



ANALYTICAL REPORT

PREPARED FOR

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Generated 02/07/2024

JOB DESCRIPTION

fYNOP Monthly Surface Water

JOB NUMBER

410-159022-1

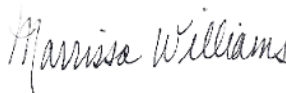
Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

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

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

Authorization



Generated
02/07/2024

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Table of Contents

Cover Page	1
Data Summaries	4
Definitions	4
Case Narrative	5
Detection Summary	6
Client Sample Results	8
Default Detection Limits	23
Surrogate Summary	24
QC Sample Results	25
QC Association	29
Chronicle	30
Certification Summary	33
Method Summary	34
Sample Summary	35
Manual Integration Summary	36
Reagent Traceability	41
COAs	55
Organic Sample Data	59
GC/MS VOA	59
Method 8260D Low Level	59
Method 8260D Low Level QC Summary	60
Method 8260D Low Level Sample Data	71
Standards Data	204
Method 8260D Low Level ICAL Data	204
Method 8260D Low Level CCAL Data	381
Raw QC Data	399
Method 8260D Low Level Tune Data	399
Method 8260D Low Level Blank Data	407
Method 8260D Low Level LCS/LCSD Data	415
Method 8260D Low Level MS/MSD Data	423
Method 8260D Low Level Run Logs	437
Method 8260D Low Level Prep Data	439
Shipping and Receiving Documents	445
Client Chain of Custody	446
Sample Receipt Checklist	448

Definitions/Glossary

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

Job ID: 410-159022-1

Qualifiers

GC/MS VOA

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

Glossary

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

**Job Narrative
410-159022-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 1/30/2024 11:48 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C

GC/MS VOA

Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-470708 recovered outside acceptance criteria, low biased, for Bromomethane. 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.

Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-470708 recovered above the upper control limit for 1,1,2,2-Tetrachloroethane. Non-detections of the affected analytes are reported. Any detections are considered estimated.

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

Detection Summary

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

Job ID: 410-159022-1

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

Lab Sample ID: 410-159022-1

No Detections.

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

Lab Sample ID: 410-159022-2

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

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

Lab Sample ID: 410-159022-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	2.0	J	5.0	1.0	ug/L	1			8260D	Total/NA
Tetrachloroethene	0.20	J	0.50	0.20	ug/L	1			8260D	Total/NA

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

Lab Sample ID: 410-159022-4

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

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

Lab Sample ID: 410-159022-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	1.8	J	5.0	1.0	ug/L	1			8260D	Total/NA
Tetrachloroethene	0.24	J	0.50	0.20	ug/L	1			8260D	Total/NA

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

Lab Sample ID: 410-159022-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.090	J	0.50	0.080	ug/L	1			8260D	Total/NA
cis-1,2-Dichloroethene	0.61		0.50	0.080	ug/L	1			8260D	Total/NA
Tetrachloroethene	1.9		0.50	0.20	ug/L	1			8260D	Total/NA
Trichloroethene	0.58		0.50	0.080	ug/L	1			8260D	Total/NA

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

Lab Sample ID: 410-159022-7

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
Tetrachloroethene	0.34	J	0.50	0.20	ug/L	1			8260D	Total/NA

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

Lab Sample ID: 410-159022-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3.4		0.50	0.080	ug/L	1			8260D	Total/NA
1,1-Dichloroethane	0.98		0.50	0.10	ug/L	1			8260D	Total/NA
1,1-Dichloroethene	0.37	J	0.50	0.10	ug/L	1			8260D	Total/NA
Acetone	1.3	J	5.0	1.0	ug/L	1			8260D	Total/NA
Chloroform	0.11	J	0.50	0.090	ug/L	1			8260D	Total/NA
cis-1,2-Dichloroethene	5.0		0.50	0.080	ug/L	1			8260D	Total/NA
Trichloroethene	2.9		0.50	0.080	ug/L	1			8260D	Total/NA
Tetrachloroethene - DL	42		5.0	2.0	ug/L	10			8260D	Total/NA

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

Lab Sample ID: 410-159022-9

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

This Detection Summary does not include radiochemical test results.

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Detection Summary

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

Job ID: 410-159022-1

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

Lab Sample ID: 410-159022-10

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

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

Lab Sample ID: 410-159022-11

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

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

Lab Sample ID: 410-159022-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.6	J	5.0	1.0	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-159022-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3.0		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.85		0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.31	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	0.10	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	4.0		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	2.4		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	42		5.0	2.0	ug/L	10		8260D	Total/NA

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

Lab Sample ID: 410-159022-14

No Detections.

Client Sample Results

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

Job ID: 410-159022-1

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

Lab Sample ID: 410-159022-1

Date Collected: 01/29/24 10:30

Matrix: Water

Date Received: 01/30/24 11:48

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			02/07/24 01:14	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/07/24 01:14	1
1,1,2,2-Tetrachloroethane	ND	^c ** cn	0.50	0.10	ug/L			02/07/24 01:14	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/07/24 01:14	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/07/24 01:14	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/07/24 01:14	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/07/24 01:14	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/07/24 01:14	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/07/24 01:14	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/07/24 01:14	1
2-Hexanone	ND		5.0	2.0	ug/L			02/07/24 01:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/07/24 01:14	1
Acetone	ND		5.0	1.0	ug/L			02/07/24 01:14	1
Benzene	ND		0.50	0.10	ug/L			02/07/24 01:14	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/07/24 01:14	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/07/24 01:14	1
Bromoform	ND		1.0	0.30	ug/L			02/07/24 01:14	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			02/07/24 01:14	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/07/24 01:14	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/07/24 01:14	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/07/24 01:14	1
Chloroethane	ND		0.50	0.10	ug/L			02/07/24 01:14	1
Chloroform	ND		0.50	0.090	ug/L			02/07/24 01:14	1
Chloromethane	ND		0.50	0.10	ug/L			02/07/24 01:14	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/07/24 01:14	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/07/24 01:14	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/07/24 01:14	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/07/24 01:14	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/07/24 01:14	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/07/24 01:14	1
Styrene	ND		0.50	0.070	ug/L			02/07/24 01:14	1
Tetrachloroethene	ND		0.50	0.20	ug/L			02/07/24 01:14	1
Toluene	ND		0.50	0.080	ug/L			02/07/24 01:14	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/07/24 01:14	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/07/24 01:14	1
Trichloroethene	ND		0.50	0.080	ug/L			02/07/24 01:14	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/07/24 01:14	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/07/24 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		02/07/24 01:14	1
4-Bromofluorobenzene (Surr)	96		80 - 120		02/07/24 01:14	1
Dibromofluoromethane (Surr)	93		80 - 120		02/07/24 01:14	1
Toluene-d8 (Surr)	102		80 - 120		02/07/24 01:14	1

Client Sample Results

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

Job ID: 410-159022-1

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

Lab Sample ID: 410-159022-2

Date Collected: 01/29/24 11:10

Matrix: Water

Date Received: 01/30/24 11:48

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			02/07/24 01:35	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/07/24 01:35	1
1,1,2,2-Tetrachloroethane	ND	^c ** cn	0.50	0.10	ug/L			02/07/24 01:35	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/07/24 01:35	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/07/24 01:35	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/07/24 01:35	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/07/24 01:35	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/07/24 01:35	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/07/24 01:35	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/07/24 01:35	1
2-Hexanone	ND		5.0	2.0	ug/L			02/07/24 01:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/07/24 01:35	1
Acetone	1.1	J	5.0	1.0	ug/L			02/07/24 01:35	1
Benzene	ND		0.50	0.10	ug/L			02/07/24 01:35	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/07/24 01:35	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/07/24 01:35	1
Bromoform	ND		1.0	0.30	ug/L			02/07/24 01:35	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			02/07/24 01:35	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/07/24 01:35	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/07/24 01:35	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/07/24 01:35	1
Chloroethane	ND		0.50	0.10	ug/L			02/07/24 01:35	1
Chloroform	ND		0.50	0.090	ug/L			02/07/24 01:35	1
Chloromethane	ND		0.50	0.10	ug/L			02/07/24 01:35	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/07/24 01:35	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/07/24 01:35	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/07/24 01:35	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/07/24 01:35	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/07/24 01:35	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/07/24 01:35	1
Styrene	ND		0.50	0.070	ug/L			02/07/24 01:35	1
Tetrachloroethene	ND		0.50	0.20	ug/L			02/07/24 01:35	1
Toluene	ND		0.50	0.080	ug/L			02/07/24 01:35	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/07/24 01:35	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/07/24 01:35	1
Trichloroethene	ND		0.50	0.080	ug/L			02/07/24 01:35	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/07/24 01:35	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/07/24 01:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		02/07/24 01:35	1
4-Bromofluorobenzene (Surr)	96		80 - 120		02/07/24 01:35	1
Dibromofluoromethane (Surr)	94		80 - 120		02/07/24 01:35	1
Toluene-d8 (Surr)	102		80 - 120		02/07/24 01:35	1

Client Sample Results

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

Job ID: 410-159022-1

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

Lab Sample ID: 410-159022-3

Date Collected: 01/29/24 09:20

Matrix: Water

Date Received: 01/30/24 11:48

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			02/07/24 01:56	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/07/24 01:56	1
1,1,2,2-Tetrachloroethane	ND	^c ** cn	0.50	0.10	ug/L			02/07/24 01:56	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/07/24 01:56	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/07/24 01:56	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/07/24 01:56	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/07/24 01:56	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/07/24 01:56	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/07/24 01:56	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/07/24 01:56	1
2-Hexanone	ND		5.0	2.0	ug/L			02/07/24 01:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/07/24 01:56	1
Acetone	2.0	J	5.0	1.0	ug/L			02/07/24 01:56	1
Benzene	ND		0.50	0.10	ug/L			02/07/24 01:56	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/07/24 01:56	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/07/24 01:56	1
Bromoform	ND		1.0	0.30	ug/L			02/07/24 01:56	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			02/07/24 01:56	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/07/24 01:56	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/07/24 01:56	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/07/24 01:56	1
Chloroethane	ND		0.50	0.10	ug/L			02/07/24 01:56	1
Chloroform	ND		0.50	0.090	ug/L			02/07/24 01:56	1
Chloromethane	ND		0.50	0.10	ug/L			02/07/24 01:56	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/07/24 01:56	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/07/24 01:56	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/07/24 01:56	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/07/24 01:56	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/07/24 01:56	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/07/24 01:56	1
Styrene	ND		0.50	0.070	ug/L			02/07/24 01:56	1
Tetrachloroethene	0.20	J	0.50	0.20	ug/L			02/07/24 01:56	1
Toluene	ND		0.50	0.080	ug/L			02/07/24 01:56	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/07/24 01:56	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/07/24 01:56	1
Trichloroethene	ND		0.50	0.080	ug/L			02/07/24 01:56	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/07/24 01:56	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/07/24 01:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		02/07/24 01:56	1
4-Bromofluorobenzene (Surr)	97		80 - 120		02/07/24 01:56	1
Dibromofluoromethane (Surr)	95		80 - 120		02/07/24 01:56	1
Toluene-d8 (Surr)	103		80 - 120		02/07/24 01:56	1

Client Sample Results

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

Job ID: 410-159022-1

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

Lab Sample ID: 410-159022-4

Date Collected: 01/29/24 12:24

Matrix: Water

Date Received: 01/30/24 11:48

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			02/07/24 02:17	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/07/24 02:17	1
1,1,2,2-Tetrachloroethane	ND	^c ** cn	0.50	0.10	ug/L			02/07/24 02:17	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/07/24 02:17	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/07/24 02:17	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/07/24 02:17	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/07/24 02:17	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/07/24 02:17	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/07/24 02:17	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/07/24 02:17	1
2-Hexanone	ND		5.0	2.0	ug/L			02/07/24 02:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/07/24 02:17	1
Acetone	1.1	J	5.0	1.0	ug/L			02/07/24 02:17	1
Benzene	ND		0.50	0.10	ug/L			02/07/24 02:17	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/07/24 02:17	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/07/24 02:17	1
Bromoform	ND		1.0	0.30	ug/L			02/07/24 02:17	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			02/07/24 02:17	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/07/24 02:17	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/07/24 02:17	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/07/24 02:17	1
Chloroethane	ND		0.50	0.10	ug/L			02/07/24 02:17	1
Chloroform	ND		0.50	0.090	ug/L			02/07/24 02:17	1
Chloromethane	ND		0.50	0.10	ug/L			02/07/24 02:17	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/07/24 02:17	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/07/24 02:17	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/07/24 02:17	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/07/24 02:17	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/07/24 02:17	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/07/24 02:17	1
Styrene	ND		0.50	0.070	ug/L			02/07/24 02:17	1
Tetrachloroethene	ND		0.50	0.20	ug/L			02/07/24 02:17	1
Toluene	ND		0.50	0.080	ug/L			02/07/24 02:17	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/07/24 02:17	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/07/24 02:17	1
Trichloroethene	ND		0.50	0.080	ug/L			02/07/24 02:17	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/07/24 02:17	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/07/24 02:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		02/07/24 02:17	1
4-Bromofluorobenzene (Surr)	96		80 - 120		02/07/24 02:17	1
Dibromofluoromethane (Surr)	93		80 - 120		02/07/24 02:17	1
Toluene-d8 (Surr)	103		80 - 120		02/07/24 02:17	1

Client Sample Results

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

Job ID: 410-159022-1

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

Lab Sample ID: 410-159022-5

Date Collected: 01/29/24 09:38

Matrix: Water

Date Received: 01/30/24 11:48

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			02/07/24 02:38	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/07/24 02:38	1
1,1,2,2-Tetrachloroethane	ND	^c ** cn	0.50	0.10	ug/L			02/07/24 02:38	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/07/24 02:38	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/07/24 02:38	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/07/24 02:38	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/07/24 02:38	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/07/24 02:38	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/07/24 02:38	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/07/24 02:38	1
2-Hexanone	ND		5.0	2.0	ug/L			02/07/24 02:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/07/24 02:38	1
Acetone	1.8	J	5.0	1.0	ug/L			02/07/24 02:38	1
Benzene	ND		0.50	0.10	ug/L			02/07/24 02:38	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/07/24 02:38	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/07/24 02:38	1
Bromoform	ND		1.0	0.30	ug/L			02/07/24 02:38	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			02/07/24 02:38	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/07/24 02:38	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/07/24 02:38	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/07/24 02:38	1
Chloroethane	ND		0.50	0.10	ug/L			02/07/24 02:38	1
Chloroform	ND		0.50	0.090	ug/L			02/07/24 02:38	1
Chloromethane	ND		0.50	0.10	ug/L			02/07/24 02:38	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/07/24 02:38	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/07/24 02:38	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/07/24 02:38	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/07/24 02:38	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/07/24 02:38	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/07/24 02:38	1
Styrene	ND		0.50	0.070	ug/L			02/07/24 02:38	1
Tetrachloroethene	0.24	J	0.50	0.20	ug/L			02/07/24 02:38	1
Toluene	ND		0.50	0.080	ug/L			02/07/24 02:38	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/07/24 02:38	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/07/24 02:38	1
Trichloroethene	ND		0.50	0.080	ug/L			02/07/24 02:38	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/07/24 02:38	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/07/24 02:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		80 - 120		02/07/24 02:38	1
4-Bromofluorobenzene (Surr)	97		80 - 120		02/07/24 02:38	1
Dibromofluoromethane (Surr)	92		80 - 120		02/07/24 02:38	1
Toluene-d8 (Surr)	103		80 - 120		02/07/24 02:38	1

Client Sample Results

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

Job ID: 410-159022-1

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

Lab Sample ID: 410-159022-6

Date Collected: 01/29/24 11:33

Matrix: Water

Date Received: 01/30/24 11:48

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			02/06/24 23:50	1
1,1,1-Trichloroethane	0.090	J	0.50	0.080	ug/L			02/06/24 23:50	1
1,1,2,2-Tetrachloroethane	ND	^c FH *+ cn	0.50	0.10	ug/L			02/06/24 23:50	1
1,1,2-Trichloroethane	ND	FH	0.50	0.080	ug/L			02/06/24 23:50	1
1,1-Dichloroethane	ND	FH	0.50	0.10	ug/L			02/06/24 23:50	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/06/24 23:50	1
1,2-Dibromoethane (EDB)	ND	FH	0.50	0.080	ug/L			02/06/24 23:50	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/06/24 23:50	1
1,2-Dichloropropane	ND	FH	0.50	0.10	ug/L			02/06/24 23:50	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/06/24 23:50	1
2-Hexanone	ND		5.0	2.0	ug/L			02/06/24 23:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/06/24 23:50	1
Acetone	ND		5.0	1.0	ug/L			02/06/24 23:50	1
Benzene	ND	FH	0.50	0.10	ug/L			02/06/24 23:50	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/06/24 23:50	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/06/24 23:50	1
Bromoform	ND		1.0	0.30	ug/L			02/06/24 23:50	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			02/06/24 23:50	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/06/24 23:50	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/06/24 23:50	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/06/24 23:50	1
Chloroethane	ND		0.50	0.10	ug/L			02/06/24 23:50	1
Chloroform	ND		0.50	0.090	ug/L			02/06/24 23:50	1
Chloromethane	ND		0.50	0.10	ug/L			02/06/24 23:50	1
cis-1,2-Dichloroethene	0.61		0.50	0.080	ug/L			02/06/24 23:50	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/06/24 23:50	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/06/24 23:50	1
Ethylbenzene	ND	FH	0.50	0.080	ug/L			02/06/24 23:50	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/06/24 23:50	1
Methylene Chloride	ND	FH	0.50	0.20	ug/L			02/06/24 23:50	1
Styrene	ND		0.50	0.070	ug/L			02/06/24 23:50	1
Tetrachloroethene	1.9		0.50	0.20	ug/L			02/06/24 23:50	1
Toluene	ND	FH	0.50	0.080	ug/L			02/06/24 23:50	1
trans-1,2-Dichloroethene	ND	FH	0.50	0.10	ug/L			02/06/24 23:50	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/06/24 23:50	1
Trichloroethene	0.58		0.50	0.080	ug/L			02/06/24 23:50	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/06/24 23:50	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/06/24 23:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		02/06/24 23:50	1
4-Bromofluorobenzene (Surr)	97		80 - 120		02/06/24 23:50	1
Dibromofluoromethane (Surr)	95		80 - 120		02/06/24 23:50	1
Toluene-d8 (Surr)	103		80 - 120		02/06/24 23:50	1

Client Sample Results

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

Job ID: 410-159022-1

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

Lab Sample ID: 410-159022-7

Date Collected: 01/29/24 10:00

Matrix: Water

Date Received: 01/30/24 11:48

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			02/07/24 02:59	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/07/24 02:59	1
1,1,2,2-Tetrachloroethane	ND	^c ** cn	0.50	0.10	ug/L			02/07/24 02:59	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/07/24 02:59	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/07/24 02:59	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/07/24 02:59	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/07/24 02:59	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/07/24 02:59	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/07/24 02:59	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/07/24 02:59	1
2-Hexanone	ND		5.0	2.0	ug/L			02/07/24 02:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/07/24 02:59	1
Acetone	1.2	J	5.0	1.0	ug/L			02/07/24 02:59	1
Benzene	ND		0.50	0.10	ug/L			02/07/24 02:59	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/07/24 02:59	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/07/24 02:59	1
Bromoform	ND		1.0	0.30	ug/L			02/07/24 02:59	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			02/07/24 02:59	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/07/24 02:59	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/07/24 02:59	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/07/24 02:59	1
Chloroethane	ND		0.50	0.10	ug/L			02/07/24 02:59	1
Chloroform	ND		0.50	0.090	ug/L			02/07/24 02:59	1
Chloromethane	ND		0.50	0.10	ug/L			02/07/24 02:59	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/07/24 02:59	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/07/24 02:59	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/07/24 02:59	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/07/24 02:59	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/07/24 02:59	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/07/24 02:59	1
Styrene	ND		0.50	0.070	ug/L			02/07/24 02:59	1
Tetrachloroethene	0.34	J	0.50	0.20	ug/L			02/07/24 02:59	1
Toluene	ND		0.50	0.080	ug/L			02/07/24 02:59	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/07/24 02:59	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/07/24 02:59	1
Trichloroethene	ND		0.50	0.080	ug/L			02/07/24 02:59	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/07/24 02:59	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/07/24 02:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		02/07/24 02:59	1
4-Bromofluorobenzene (Surr)	96		80 - 120		02/07/24 02:59	1
Dibromofluoromethane (Surr)	94		80 - 120		02/07/24 02:59	1
Toluene-d8 (Surr)	102		80 - 120		02/07/24 02:59	1

Client Sample Results

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

Job ID: 410-159022-1

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

Lab Sample ID: 410-159022-8

Date Collected: 01/29/24 10:10

Matrix: Water

Date Received: 01/30/24 11:48

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			02/07/24 04:44	1
1,1,1-Trichloroethane	3.4		0.50	0.080	ug/L			02/07/24 04:44	1
1,1,2,2-Tetrachloroethane	ND	^c *+ cn	0.50	0.10	ug/L			02/07/24 04:44	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/07/24 04:44	1
1,1-Dichloroethane	0.98		0.50	0.10	ug/L			02/07/24 04:44	1
1,1-Dichloroethene	0.37	J	0.50	0.10	ug/L			02/07/24 04:44	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/07/24 04:44	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/07/24 04:44	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/07/24 04:44	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/07/24 04:44	1
2-Hexanone	ND		5.0	2.0	ug/L			02/07/24 04:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/07/24 04:44	1
Acetone	1.3	J	5.0	1.0	ug/L			02/07/24 04:44	1
Benzene	ND		0.50	0.10	ug/L			02/07/24 04:44	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/07/24 04:44	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/07/24 04:44	1
Bromoform	ND		1.0	0.30	ug/L			02/07/24 04:44	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			02/07/24 04:44	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/07/24 04:44	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/07/24 04:44	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/07/24 04:44	1
Chloroethane	ND		0.50	0.10	ug/L			02/07/24 04:44	1
Chloroform	0.11	J	0.50	0.090	ug/L			02/07/24 04:44	1
Chloromethane	ND		0.50	0.10	ug/L			02/07/24 04:44	1
cis-1,2-Dichloroethene	5.0		0.50	0.080	ug/L			02/07/24 04:44	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/07/24 04:44	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/07/24 04:44	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/07/24 04:44	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/07/24 04:44	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/07/24 04:44	1
Styrene	ND		0.50	0.070	ug/L			02/07/24 04:44	1
Toluene	ND		0.50	0.080	ug/L			02/07/24 04:44	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/07/24 04:44	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/07/24 04:44	1
Trichloroethene	2.9		0.50	0.080	ug/L			02/07/24 04:44	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/07/24 04:44	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/07/24 04:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		02/07/24 04:44	1
4-Bromofluorobenzene (Surr)	95		80 - 120		02/07/24 04:44	1
Dibromofluoromethane (Surr)	94		80 - 120		02/07/24 04:44	1
Toluene-d8 (Surr)	100		80 - 120		02/07/24 04:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	42		5.0	2.0	ug/L			02/07/24 05:05	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120					02/07/24 05:05	10

Client Sample Results

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

Job ID: 410-159022-1

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

Lab Sample ID: 410-159022-8

Date Collected: 01/29/24 10:10

Matrix: Water

Date Received: 01/30/24 11:48

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		02/07/24 05:05	10
Dibromofluoromethane (Surr)	95		80 - 120		02/07/24 05:05	10
Toluene-d8 (Surr)	101		80 - 120		02/07/24 05:05	10

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

Lab Sample ID: 410-159022-9

Date Collected: 01/29/24 10:53

Matrix: Water

Date Received: 01/30/24 11:48

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			02/07/24 03:20	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/07/24 03:20	1
1,1,2,2-Tetrachloroethane	ND	^c *+ cn	0.50	0.10	ug/L			02/07/24 03:20	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/07/24 03:20	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/07/24 03:20	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/07/24 03:20	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/07/24 03:20	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/07/24 03:20	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/07/24 03:20	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/07/24 03:20	1
2-Hexanone	ND		5.0	2.0	ug/L			02/07/24 03:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/07/24 03:20	1
Acetone	1.1	J	5.0	1.0	ug/L			02/07/24 03:20	1
Benzene	ND		0.50	0.10	ug/L			02/07/24 03:20	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/07/24 03:20	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/07/24 03:20	1
Bromoform	ND		1.0	0.30	ug/L			02/07/24 03:20	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			02/07/24 03:20	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/07/24 03:20	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/07/24 03:20	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/07/24 03:20	1
Chloroethane	ND		0.50	0.10	ug/L			02/07/24 03:20	1
Chloroform	ND		0.50	0.090	ug/L			02/07/24 03:20	1
Chloromethane	ND		0.50	0.10	ug/L			02/07/24 03:20	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/07/24 03:20	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/07/24 03:20	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/07/24 03:20	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/07/24 03:20	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/07/24 03:20	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/07/24 03:20	1
Styrene	ND		0.50	0.070	ug/L			02/07/24 03:20	1
Tetrachloroethene	ND		0.50	0.20	ug/L			02/07/24 03:20	1
Toluene	ND		0.50	0.080	ug/L			02/07/24 03:20	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/07/24 03:20	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/07/24 03:20	1
Trichloroethene	ND		0.50	0.080	ug/L			02/07/24 03:20	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/07/24 03:20	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/07/24 03:20	1

Client Sample Results

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

Job ID: 410-159022-1

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

Lab Sample ID: 410-159022-9

Date Collected: 01/29/24 10:53

Matrix: Water

Date Received: 01/30/24 11:48

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		02/07/24 03:20	1
4-Bromofluorobenzene (Surr)	95		80 - 120		02/07/24 03:20	1
Dibromofluoromethane (Surr)	94		80 - 120		02/07/24 03:20	1
Toluene-d8 (Surr)	102		80 - 120		02/07/24 03:20	1

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

Lab Sample ID: 410-159022-10

Date Collected: 01/29/24 11:20

Matrix: Water

Date Received: 01/30/24 11:48

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			02/07/24 03:41	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/07/24 03:41	1
1,1,2,2-Tetrachloroethane	ND	^c *+ cn	0.50	0.10	ug/L			02/07/24 03:41	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/07/24 03:41	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/07/24 03:41	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/07/24 03:41	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/07/24 03:41	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/07/24 03:41	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/07/24 03:41	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/07/24 03:41	1
2-Hexanone	ND		5.0	2.0	ug/L			02/07/24 03:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/07/24 03:41	1
Acetone	1.0	J	5.0	1.0	ug/L			02/07/24 03:41	1
Benzene	ND		0.50	0.10	ug/L			02/07/24 03:41	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/07/24 03:41	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/07/24 03:41	1
Bromoform	ND		1.0	0.30	ug/L			02/07/24 03:41	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			02/07/24 03:41	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/07/24 03:41	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/07/24 03:41	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/07/24 03:41	1
Chloroethane	ND		0.50	0.10	ug/L			02/07/24 03:41	1
Chloroform	ND		0.50	0.090	ug/L			02/07/24 03:41	1
Chloromethane	ND		0.50	0.10	ug/L			02/07/24 03:41	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/07/24 03:41	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/07/24 03:41	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/07/24 03:41	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/07/24 03:41	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/07/24 03:41	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/07/24 03:41	1
Styrene	ND		0.50	0.070	ug/L			02/07/24 03:41	1
Tetrachloroethene	ND		0.50	0.20	ug/L			02/07/24 03:41	1
Toluene	ND		0.50	0.080	ug/L			02/07/24 03:41	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/07/24 03:41	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/07/24 03:41	1
Trichloroethene	ND		0.50	0.080	ug/L			02/07/24 03:41	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/07/24 03:41	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/07/24 03:41	1

Client Sample Results

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

Job ID: 410-159022-1

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

Lab Sample ID: 410-159022-10

Date Collected: 01/29/24 11:20

Matrix: Water

Date Received: 01/30/24 11:48

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		02/07/24 03:41	1
4-Bromofluorobenzene (Surr)	96		80 - 120		02/07/24 03:41	1
Dibromofluoromethane (Surr)	95		80 - 120		02/07/24 03:41	1
Toluene-d8 (Surr)	102		80 - 120		02/07/24 03:41	1

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

Lab Sample ID: 410-159022-11

Date Collected: 01/29/24 12:40

Matrix: Water

Date Received: 01/30/24 11:48

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			02/07/24 04:02	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/07/24 04:02	1
1,1,2,2-Tetrachloroethane	ND	^c *+ cn	0.50	0.10	ug/L			02/07/24 04:02	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/07/24 04:02	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/07/24 04:02	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/07/24 04:02	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/07/24 04:02	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/07/24 04:02	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/07/24 04:02	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/07/24 04:02	1
2-Hexanone	ND		5.0	2.0	ug/L			02/07/24 04:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/07/24 04:02	1
Acetone	1.0	J	5.0	1.0	ug/L			02/07/24 04:02	1
Benzene	ND		0.50	0.10	ug/L			02/07/24 04:02	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/07/24 04:02	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/07/24 04:02	1
Bromoform	ND		1.0	0.30	ug/L			02/07/24 04:02	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			02/07/24 04:02	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/07/24 04:02	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/07/24 04:02	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/07/24 04:02	1
Chloroethane	ND		0.50	0.10	ug/L			02/07/24 04:02	1
Chloroform	ND		0.50	0.090	ug/L			02/07/24 04:02	1
Chloromethane	ND		0.50	0.10	ug/L			02/07/24 04:02	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/07/24 04:02	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/07/24 04:02	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/07/24 04:02	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/07/24 04:02	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/07/24 04:02	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/07/24 04:02	1
Styrene	ND		0.50	0.070	ug/L			02/07/24 04:02	1
Tetrachloroethene	ND		0.50	0.20	ug/L			02/07/24 04:02	1
Toluene	ND		0.50	0.080	ug/L			02/07/24 04:02	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/07/24 04:02	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/07/24 04:02	1
Trichloroethene	ND		0.50	0.080	ug/L			02/07/24 04:02	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/07/24 04:02	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/07/24 04:02	1

Client Sample Results

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

Job ID: 410-159022-1

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

Lab Sample ID: 410-159022-11

Date Collected: 01/29/24 12:40

Matrix: Water

Date Received: 01/30/24 11:48

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		02/07/24 04:02	1
4-Bromofluorobenzene (Surr)	96		80 - 120		02/07/24 04:02	1
Dibromofluoromethane (Surr)	94		80 - 120		02/07/24 04:02	1
Toluene-d8 (Surr)	101		80 - 120		02/07/24 04:02	1

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

Lab Sample ID: 410-159022-12

Date Collected: 01/29/24 09:08

Matrix: Water

Date Received: 01/30/24 11:48

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			02/07/24 04:23	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/07/24 04:23	1
1,1,2,2-Tetrachloroethane	ND	^c *+ cn	0.50	0.10	ug/L			02/07/24 04:23	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/07/24 04:23	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/07/24 04:23	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/07/24 04:23	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/07/24 04:23	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/07/24 04:23	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/07/24 04:23	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/07/24 04:23	1
2-Hexanone	ND		5.0	2.0	ug/L			02/07/24 04:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/07/24 04:23	1
Acetone	2.6	J	5.0	1.0	ug/L			02/07/24 04:23	1
Benzene	ND		0.50	0.10	ug/L			02/07/24 04:23	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/07/24 04:23	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/07/24 04:23	1
Bromoform	ND		1.0	0.30	ug/L			02/07/24 04:23	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			02/07/24 04:23	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/07/24 04:23	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/07/24 04:23	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/07/24 04:23	1
Chloroethane	ND		0.50	0.10	ug/L			02/07/24 04:23	1
Chloroform	ND		0.50	0.090	ug/L			02/07/24 04:23	1
Chloromethane	ND		0.50	0.10	ug/L			02/07/24 04:23	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/07/24 04:23	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/07/24 04:23	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/07/24 04:23	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/07/24 04:23	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/07/24 04:23	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/07/24 04:23	1
Styrene	ND		0.50	0.070	ug/L			02/07/24 04:23	1
Tetrachloroethene	ND		0.50	0.20	ug/L			02/07/24 04:23	1
Toluene	ND		0.50	0.080	ug/L			02/07/24 04:23	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/07/24 04:23	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/07/24 04:23	1
Trichloroethene	ND		0.50	0.080	ug/L			02/07/24 04:23	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/07/24 04:23	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/07/24 04:23	1

Client Sample Results

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

Job ID: 410-159022-1

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

Lab Sample ID: 410-159022-12

Date Collected: 01/29/24 09:08

Matrix: Water

Date Received: 01/30/24 11:48

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		02/07/24 04:23	1
4-Bromofluorobenzene (Surr)	95		80 - 120		02/07/24 04:23	1
Dibromofluoromethane (Surr)	95		80 - 120		02/07/24 04:23	1
Toluene-d8 (Surr)	102		80 - 120		02/07/24 04:23	1

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

Lab Sample ID: 410-159022-13

Date Collected: 01/29/24 12:00

Matrix: Water

Date Received: 01/30/24 11:48

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			02/07/24 05:26	1
1,1,1-Trichloroethane	3.0		0.50	0.080	ug/L			02/07/24 05:26	1
1,1,2,2-Tetrachloroethane	ND	^c *+ cn	0.50	0.10	ug/L			02/07/24 05:26	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/07/24 05:26	1
1,1-Dichloroethane	0.85		0.50	0.10	ug/L			02/07/24 05:26	1
1,1-Dichloroethene	0.31	J	0.50	0.10	ug/L			02/07/24 05:26	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/07/24 05:26	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/07/24 05:26	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/07/24 05:26	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/07/24 05:26	1
2-Hexanone	ND		5.0	2.0	ug/L			02/07/24 05:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/07/24 05:26	1
Acetone	1.1	J	5.0	1.0	ug/L			02/07/24 05:26	1
Benzene	ND		0.50	0.10	ug/L			02/07/24 05:26	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/07/24 05:26	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/07/24 05:26	1
Bromoform	ND		1.0	0.30	ug/L			02/07/24 05:26	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			02/07/24 05:26	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/07/24 05:26	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/07/24 05:26	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/07/24 05:26	1
Chloroethane	ND		0.50	0.10	ug/L			02/07/24 05:26	1
Chloroform	0.10	J	0.50	0.090	ug/L			02/07/24 05:26	1
Chloromethane	ND		0.50	0.10	ug/L			02/07/24 05:26	1
cis-1,2-Dichloroethene	4.0		0.50	0.080	ug/L			02/07/24 05:26	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/07/24 05:26	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/07/24 05:26	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/07/24 05:26	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/07/24 05:26	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/07/24 05:26	1
Styrene	ND		0.50	0.070	ug/L			02/07/24 05:26	1
Toluene	ND		0.50	0.080	ug/L			02/07/24 05:26	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/07/24 05:26	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/07/24 05:26	1
Trichloroethene	2.4		0.50	0.080	ug/L			02/07/24 05:26	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/07/24 05:26	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/07/24 05:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		02/07/24 05:26	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

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

Job ID: 410-159022-1

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

Lab Sample ID: 410-159022-13

Date Collected: 01/29/24 12:00

Matrix: Water

Date Received: 01/30/24 11:48

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		02/07/24 05:26	1
Dibromofluoromethane (Surr)	95		80 - 120		02/07/24 05:26	1
Toluene-d8 (Surr)	100		80 - 120		02/07/24 05:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	42		5.0	2.0	ug/L			02/07/24 05:47	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		02/07/24 05:47	10
4-Bromofluorobenzene (Surr)	96		80 - 120		02/07/24 05:47	10
Dibromofluoromethane (Surr)	94		80 - 120		02/07/24 05:47	10
Toluene-d8 (Surr)	102		80 - 120		02/07/24 05:47	10

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

Lab Sample ID: 410-159022-14

Date Collected: 01/29/24 00:00

Matrix: Water

Date Received: 01/30/24 11:48

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			02/06/24 21:44	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/06/24 21:44	1
1,1,2,2-Tetrachloroethane	ND	^c ** cn	0.50	0.10	ug/L			02/06/24 21:44	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/06/24 21:44	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/06/24 21:44	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/06/24 21:44	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/06/24 21:44	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/06/24 21:44	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/06/24 21:44	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/06/24 21:44	1
2-Hexanone	ND		5.0	2.0	ug/L			02/06/24 21:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/06/24 21:44	1
Acetone	ND		5.0	1.0	ug/L			02/06/24 21:44	1
Benzene	ND		0.50	0.10	ug/L			02/06/24 21:44	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/06/24 21:44	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/06/24 21:44	1
Bromoform	ND		1.0	0.30	ug/L			02/06/24 21:44	1
Bromomethane	ND	^c cn	0.50	0.10	ug/L			02/06/24 21:44	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/06/24 21:44	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/06/24 21:44	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/06/24 21:44	1
Chloroethane	ND		0.50	0.10	ug/L			02/06/24 21:44	1
Chloroform	ND		0.50	0.090	ug/L			02/06/24 21:44	1
Chloromethane	ND		0.50	0.10	ug/L			02/06/24 21:44	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/06/24 21:44	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/06/24 21:44	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/06/24 21:44	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/06/24 21:44	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/06/24 21:44	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/06/24 21:44	1

Eurofins Lancaster Laboratories Environment Testing, LLC

Client Sample Results

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

Job ID: 410-159022-1

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

Lab Sample ID: 410-159022-14

Date Collected: 01/29/24 00:00

Matrix: Water

Date Received: 01/30/24 11:48

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			02/06/24 21:44	1
Tetrachloroethene	ND		0.50	0.20	ug/L			02/06/24 21:44	1
Toluene	ND		0.50	0.080	ug/L			02/06/24 21:44	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/06/24 21:44	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/06/24 21:44	1
Trichloroethene	ND		0.50	0.080	ug/L			02/06/24 21:44	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/06/24 21:44	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/06/24 21:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		02/06/24 21:44	1
4-Bromofluorobenzene (Surr)	96		80 - 120		02/06/24 21:44	1
Dibromofluoromethane (Surr)	93		80 - 120		02/06/24 21:44	1
Toluene-d8 (Surr)	102		80 - 120		02/06/24 21:44	1

Default Detection Limits

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

Job ID: 410-159022-1

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

Analyte	RL	MDL	Units
1,1,1,2-Tetrachloroethane	0.50	0.070	ug/L
1,1,1-Trichloroethane	0.50	0.080	ug/L
1,1,2,2-Tetrachloroethane	0.50	0.10	ug/L
1,1,2-Trichloroethane	0.50	0.080	ug/L
1,1-Dichloroethane	0.50	0.10	ug/L
1,1-Dichloroethene	0.50	0.10	ug/L
1,2-Dibromoethane (EDB)	0.50	0.080	ug/L
1,2-Dichloroethane	0.50	0.070	ug/L
1,2-Dichloropropane	0.50	0.10	ug/L
2-Butanone (MEK)	5.0	1.0	ug/L
2-Hexanone	5.0	2.0	ug/L
4-Methyl-2-pentanone (MIBK)	5.0	1.0	ug/L
Acetone	5.0	1.0	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	0.20	ug/L
Styrene	0.50	0.070	ug/L
Tetrachloroethene	0.50	0.20	ug/L
Toluene	0.50	0.080	ug/L
trans-1,2-Dichloroethene	0.50	0.10	ug/L
trans-1,3-Dichloropropene	0.50	0.080	ug/L
Trichloroethene	0.50	0.080	ug/L
Vinyl chloride	0.50	0.10	ug/L
Xylenes, Total	1.0	0.070	ug/L

Surrogate Summary

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

Job ID: 410-159022-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (80-120)	BFB (80-120)	DBFM (80-120)	TOL (80-120)
410-159022-1	HD-COD-SW-6-0/1-0	103	96	93	102
410-159022-2	HD-COD-SW-7-0/1-0	105	96	94	102
410-159022-3	HD-COD-SW-8-0/1-0	106	97	95	103
410-159022-4	HD-COD-SW-9-0/1-0	104	96	93	103
410-159022-5	HD-COD-SW-13-0/1-0	104	97	92	103
410-159022-6	HD-COD-SW-15-0/1-0	106	97	95	103
410-159022-6 MS	HD-COD-SW-15-0/1-0 MS	104	100	91	104
410-159022-6 MSD	HD-COD-SW-15-0/1-0 MSD	103	100	91	103
410-159022-7	HD-COD-SW-16-0/1-0	102	96	94	102
410-159022-8	HD-COD-SW-17-0/1-0	105	95	94	100
410-159022-8 - DL	HD-COD-SW-17-0/1-0	106	95	95	101
410-159022-9	HD-COD-SW-26-0/1-0	105	95	94	102
410-159022-10	HD-COD-SW-27-0/1-0	105	96	95	102
410-159022-11	HD-COD-SW-28-0/1-0	105	96	94	101
410-159022-12	HD-COD-SW-29-0/1-0	106	95	95	102
410-159022-13	HD-QC1-0/1-1	105	95	95	100
410-159022-13 - DL	HD-QC1-0/1-1	105	96	94	102
410-159022-14	HD-QC1-0/1-2	103	96	93	102
LCS 410-470708/4	Lab Control Sample	102	101	90	104
MB 410-470708/6	Method Blank	105	97	92	103

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

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

Job ID: 410-159022-1

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

Lab Sample ID: MB 410-470708/6

Matrix: Water

Analysis Batch: 470708

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			02/06/24 21:09	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			02/06/24 21:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			02/06/24 21:09	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			02/06/24 21:09	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			02/06/24 21:09	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			02/06/24 21:09	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			02/06/24 21:09	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			02/06/24 21:09	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			02/06/24 21:09	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			02/06/24 21:09	1
2-Hexanone	ND		5.0	2.0	ug/L			02/06/24 21:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			02/06/24 21:09	1
Acetone	ND		5.0	1.0	ug/L			02/06/24 21:09	1
Benzene	ND		0.50	0.10	ug/L			02/06/24 21:09	1
Bromochloromethane	ND		0.50	0.080	ug/L			02/06/24 21:09	1
Bromodichloromethane	ND		0.50	0.080	ug/L			02/06/24 21:09	1
Bromoform	ND		1.0	0.30	ug/L			02/06/24 21:09	1
Bromomethane	ND		0.50	0.10	ug/L			02/06/24 21:09	1
Carbon disulfide	ND		1.0	0.10	ug/L			02/06/24 21:09	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			02/06/24 21:09	1
Chlorobenzene	ND		0.50	0.070	ug/L			02/06/24 21:09	1
Chloroethane	ND		0.50	0.10	ug/L			02/06/24 21:09	1
Chloroform	ND		0.50	0.090	ug/L			02/06/24 21:09	1
Chloromethane	ND		0.50	0.10	ug/L			02/06/24 21:09	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			02/06/24 21:09	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			02/06/24 21:09	1
Dibromochloromethane	ND		0.50	0.080	ug/L			02/06/24 21:09	1
Ethylbenzene	ND		0.50	0.080	ug/L			02/06/24 21:09	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			02/06/24 21:09	1
Methylene Chloride	ND		0.50	0.20	ug/L			02/06/24 21:09	1
Styrene	ND		0.50	0.070	ug/L			02/06/24 21:09	1
Tetrachloroethene	ND		0.50	0.20	ug/L			02/06/24 21:09	1
Toluene	ND		0.50	0.080	ug/L			02/06/24 21:09	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			02/06/24 21:09	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			02/06/24 21:09	1
Trichloroethene	ND		0.50	0.080	ug/L			02/06/24 21:09	1
Vinyl chloride	ND		0.50	0.10	ug/L			02/06/24 21:09	1
Xylenes, Total	ND		1.0	0.070	ug/L			02/06/24 21:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		02/06/24 21:09	1
4-Bromofluorobenzene (Surr)	97		80 - 120		02/06/24 21:09	1
Dibromofluoromethane (Surr)	92		80 - 120		02/06/24 21:09	1
Toluene-d8 (Surr)	103		80 - 120		02/06/24 21:09	1

QC Sample Results

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

Job ID: 410-159022-1

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

Lab Sample ID: LCS 410-470708/4

Matrix: Water

Analysis Batch: 470708

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	5.00	4.99		ug/L		100	71 - 134
1,1,1-Trichloroethane	5.00	4.58		ug/L		92	78 - 126
1,1,2,2-Tetrachloroethane	5.00	6.55	*+	ug/L		131	75 - 123
1,1,2-Trichloroethane	5.00	5.85		ug/L		117	80 - 120
1,1-Dichloroethane	5.00	5.61		ug/L		112	74 - 120
1,1-Dichloroethene	5.00	5.23		ug/L		105	80 - 131
1,2-Dibromoethane (EDB)	5.00	5.71		ug/L		114	80 - 120
1,2-Dichloroethane	5.00	4.83		ug/L		97	69 - 122
1,2-Dichloropropane	5.00	6.02		ug/L		120	80 - 120
2-Butanone (MEK)	62.5	68.0		ug/L		109	59 - 141
2-Hexanone	62.5	64.7		ug/L		103	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	64.2		ug/L		103	55 - 140
Acetone	62.5	62.6		ug/L		100	60 - 146
Benzene	5.00	5.53		ug/L		111	80 - 120
Bromochloromethane	5.00	5.01		ug/L		100	80 - 120
Bromodichloromethane	5.00	5.15		ug/L		103	73 - 124
Bromoform	5.00	5.03		ug/L		101	49 - 144
Bromomethane	5.00	3.55		ug/L		71	60 - 136
Carbon disulfide	5.00	5.21		ug/L		104	67 - 130
Carbon tetrachloride	5.00	4.52		ug/L		90	64 - 141
Chlorobenzene	5.00	5.35		ug/L		107	80 - 120
Chloroethane	5.00	4.25		ug/L		85	63 - 120
Chloroform	5.00	4.97		ug/L		99	80 - 120
Chloromethane	5.00	4.13		ug/L		83	56 - 124
cis-1,2-Dichloroethene	5.00	5.23		ug/L		105	80 - 122
cis-1,3-Dichloropropene	5.00	5.30		ug/L		106	67 - 121
Dibromochloromethane	5.00	5.41		ug/L		108	64 - 138
Ethylbenzene	5.00	5.46		ug/L		109	80 - 120
Methyl tert-butyl ether	5.00	4.97		ug/L		99	69 - 120
Methylene Chloride	5.00	5.49		ug/L		110	80 - 120
Styrene	5.00	5.40		ug/L		108	80 - 120
Tetrachloroethene	5.00	4.84		ug/L		97	80 - 120
Toluene	5.00	5.53		ug/L		111	80 - 120
trans-1,2-Dichloroethene	5.00	5.14		ug/L		103	80 - 122
trans-1,3-Dichloropropene	5.00	5.90		ug/L		118	61 - 129
Trichloroethene	5.00	4.95		ug/L		99	80 - 120
Vinyl chloride	5.00	3.92		ug/L		78	60 - 125
Xylenes, Total	15.0	15.8		ug/L		106	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	90		80 - 120
Toluene-d8 (Surr)	104		80 - 120

QC Sample Results

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

Job ID: 410-159022-1

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

Lab Sample ID: 410-159022-6 MS

Matrix: Water

Analysis Batch: 470708

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	5.36		ug/L		107	71 - 134
1,1,1-Trichloroethane	0.090	J	5.00	5.48		ug/L		108	78 - 126
1,1,2,2-Tetrachloroethane	ND	^c FH ** cn	5.00	6.57	FH	ug/L		131	75 - 123
1,1,2-Trichloroethane	ND	FH	5.00	6.17	FH	ug/L		123	80 - 120
1,1-Dichloroethane	ND	FH	5.00	6.38	FH	ug/L		128	74 - 120
1,1-Dichloroethene	ND		5.00	6.33		ug/L		126	80 - 131
1,2-Dibromoethane (EDB)	ND	FH	5.00	6.01		ug/L		120	80 - 120
1,2-Dichloroethane	ND		5.00	5.11		ug/L		102	69 - 122
1,2-Dichloropropane	ND	FH	5.00	6.56	FH	ug/L		131	80 - 120
2-Butanone (MEK)	ND		62.6	79.3		ug/L		127	59 - 141
2-Hexanone	ND		62.6	74.8		ug/L		120	52 - 140
4-Methyl-2-pentanone (MIBK)	ND		62.6	75.4		ug/L		120	55 - 140
Acetone	ND		62.6	74.6		ug/L		119	60 - 146
Benzene	ND	FH	5.00	6.27	FH	ug/L		125	80 - 120
Bromochloromethane	ND		5.00	5.60		ug/L		112	80 - 120
Bromodichloromethane	ND		5.00	5.62		ug/L		112	73 - 124
Bromoform	ND		5.00	5.03		ug/L		101	49 - 144
Bromomethane	ND	^c cn	5.00	4.41		ug/L		88	60 - 136
Carbon disulfide	ND		5.00	6.25		ug/L		125	67 - 130
Carbon tetrachloride	ND		5.00	5.41		ug/L		108	64 - 141
Chlorobenzene	ND		5.00	5.98		ug/L		119	80 - 120
Chloroethane	ND		5.00	5.24		ug/L		105	63 - 120
Chloroform	ND		5.00	5.61		ug/L		112	80 - 120
Chloromethane	ND		5.00	5.42		ug/L		108	80 - 120
cis-1,2-Dichloroethene	0.61		5.00	6.53		ug/L		118	80 - 122
cis-1,3-Dichloropropene	ND		5.00	5.67		ug/L		113	67 - 121
Dibromochloromethane	ND		5.00	5.69		ug/L		114	64 - 138
Ethylbenzene	ND	FH	5.00	6.16	FH	ug/L		123	80 - 120
Methyl tert-butyl ether	ND		5.00	5.10		ug/L		102	69 - 120
Methylene Chloride	ND	FH	5.00	6.13	FH	ug/L		122	80 - 120
Styrene	ND		5.00	5.92		ug/L		118	80 - 120
Tetrachloroethene	1.9		5.00	7.69		ug/L		115	80 - 120
Toluene	ND	FH	5.00	6.27	FH	ug/L		125	80 - 120
trans-1,2-Dichloroethene	ND	FH	5.00	5.94		ug/L		119	80 - 122
trans-1,3-Dichloropropene	ND		5.00	6.14		ug/L		123	61 - 129
Trichloroethene	0.58		5.00	6.32		ug/L		115	80 - 120
Vinyl chloride	ND		5.00	5.34		ug/L		107	60 - 125
Xylenes, Total	ND		15.0	17.8		ug/L		118	80 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	91		80 - 120
Toluene-d8 (Surr)	104		80 - 120

QC Sample Results

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

Job ID: 410-159022-1

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

Lab Sample ID: 410-159022-6 MSD

Matrix: Water

Analysis Batch: 470708

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	5.43		ug/L		109	71 - 134	1	30
1,1,1-Trichloroethane	0.090	J	5.00	5.59		ug/L		110	78 - 126	2	30
1,1,2,2-Tetrachloroethane	ND	^c FH *+ cn	5.00	6.87	FH	ug/L		137	75 - 123	4	30
1,1,2-Trichloroethane	ND	FH	5.00	6.21	FH	ug/L		124	80 - 120	1	30
1,1-Dichloroethane	ND	FH	5.00	6.58	FH	ug/L		131	74 - 120	3	30
1,1-Dichloroethene	ND		5.00	6.45		ug/L		129	80 - 131	2	30
1,2-Dibromoethane (EDB)	ND	FH	5.00	6.18	FH	ug/L		123	80 - 120	3	30
1,2-Dichloroethane	ND		5.00	5.23		ug/L		104	69 - 122	2	30
1,2-Dichloropropane	ND	FH	5.00	6.77	FH	ug/L		135	80 - 120	3	30
2-Butanone (MEK)	ND		62.6	80.3		ug/L		128	59 - 141	1	30
2-Hexanone	ND		62.6	77.5		ug/L		124	52 - 140	4	30
4-Methyl-2-pentanone (MIBK)	ND		62.6	76.9		ug/L		123	55 - 140	2	30
Acetone	ND		62.6	76.0		ug/L		122	60 - 146	2	30
Benzene	ND	FH	5.00	6.35	FH	ug/L		127	80 - 120	1	30
Bromochloromethane	ND		5.00	5.62		ug/L		112	80 - 120	0	30
Bromodichloromethane	ND		5.00	5.68		ug/L		113	73 - 124	1	30
Bromoform	ND		5.00	5.22		ug/L		104	49 - 144	4	30
Bromomethane	ND	^c cn	5.00	4.32		ug/L		86	60 - 136	2	30
Carbon disulfide	ND		5.00	6.39		ug/L		128	67 - 130	2	30
Carbon tetrachloride	ND		5.00	5.50		ug/L		110	64 - 141	2	30
Chlorobenzene	ND		5.00	6.01		ug/L		120	80 - 120	1	30
Chloroethane	ND		5.00	5.10		ug/L		102	63 - 120	3	30
Chloroform	ND		5.00	5.70		ug/L		114	80 - 120	2	30
Chloromethane	ND		5.00	5.21		ug/L		104	80 - 120	4	30
cis-1,2-Dichloroethene	0.61		5.00	6.67		ug/L		121	80 - 122	2	30
cis-1,3-Dichloropropene	ND		5.00	5.82		ug/L		116	67 - 121	3	30
Dibromochloromethane	ND		5.00	5.78		ug/L		116	64 - 138	2	30
Ethylbenzene	ND	FH	5.00	6.28	FH	ug/L		126	80 - 120	2	30
Methyl tert-butyl ether	ND		5.00	5.29		ug/L		106	69 - 120	4	30
Methylene Chloride	ND	FH	5.00	6.17	FH	ug/L		123	80 - 120	1	30
Styrene	ND		5.00	5.95		ug/L		119	80 - 120	1	30
Tetrachloroethene	1.9		5.00	7.73		ug/L		116	80 - 120	1	30
Toluene	ND	FH	5.00	6.42	FH	ug/L		128	80 - 120	2	30
trans-1,2-Dichloroethene	ND	FH	5.00	6.17	FH	ug/L		123	80 - 122	4	30
trans-1,3-Dichloropropene	ND		5.00	6.35		ug/L		127	61 - 129	3	30
Trichloroethene	0.58		5.00	6.42		ug/L		117	80 - 120	2	30
Vinyl chloride	ND		5.00	5.24		ug/L		105	60 - 125	2	30
Xylenes, Total	ND		15.0	17.9		ug/L		119	80 - 120	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	91		80 - 120
Toluene-d8 (Surr)	103		80 - 120

QC Association Summary

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

Job ID: 410-159022-1

GC/MS VOA

Analysis Batch: 470708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-159022-1	HD-COD-SW-6-0/1-0	Total/NA	Water	8260D	
410-159022-2	HD-COD-SW-7-0/1-0	Total/NA	Water	8260D	
410-159022-3	HD-COD-SW-8-0/1-0	Total/NA	Water	8260D	
410-159022-4	HD-COD-SW-9-0/1-0	Total/NA	Water	8260D	
410-159022-5	HD-COD-SW-13-0/1-0	Total/NA	Water	8260D	
410-159022-6	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	
410-159022-7	HD-COD-SW-16-0/1-0	Total/NA	Water	8260D	
410-159022-8	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-159022-8 - DL	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-159022-9	HD-COD-SW-26-0/1-0	Total/NA	Water	8260D	
410-159022-10	HD-COD-SW-27-0/1-0	Total/NA	Water	8260D	
410-159022-11	HD-COD-SW-28-0/1-0	Total/NA	Water	8260D	
410-159022-12	HD-COD-SW-29-0/1-0	Total/NA	Water	8260D	
410-159022-13	HD-QC1-0/1-1	Total/NA	Water	8260D	
410-159022-13 - DL	HD-QC1-0/1-1	Total/NA	Water	8260D	
410-159022-14	HD-QC1-0/1-2	Total/NA	Water	8260D	
MB 410-470708/6	Method Blank	Total/NA	Water	8260D	
LCS 410-470708/4	Lab Control Sample	Total/NA	Water	8260D	
410-159022-6 MS	HD-COD-SW-15-0/1-0 MS	Total/NA	Water	8260D	
410-159022-6 MSD	HD-COD-SW-15-0/1-0 MSD	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 410-159022-1

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

Lab Sample ID: 410-159022-1

Date Collected: 01/29/24 10:30

Matrix: Water

Date Received: 01/30/24 11:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	470708	JS6E	ELLE	02/07/24 01:14

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

Lab Sample ID: 410-159022-2

Date Collected: 01/29/24 11:10

Matrix: Water

Date Received: 01/30/24 11:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	470708	JS6E	ELLE	02/07/24 01:35

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

Lab Sample ID: 410-159022-3

Date Collected: 01/29/24 09:20

Matrix: Water

Date Received: 01/30/24 11:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	470708	JS6E	ELLE	02/07/24 01:56

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

Lab Sample ID: 410-159022-4

Date Collected: 01/29/24 12:24

Matrix: Water

Date Received: 01/30/24 11:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	470708	JS6E	ELLE	02/07/24 02:17

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

Lab Sample ID: 410-159022-5

Date Collected: 01/29/24 09:38

Matrix: Water

Date Received: 01/30/24 11:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	470708	JS6E	ELLE	02/07/24 02:38

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

Lab Sample ID: 410-159022-6

Date Collected: 01/29/24 11:33

Matrix: Water

Date Received: 01/30/24 11:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	470708	JS6E	ELLE	02/06/24 23:50

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

Lab Sample ID: 410-159022-7

Date Collected: 01/29/24 10:00

Matrix: Water

Date Received: 01/30/24 11:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	470708	JS6E	ELLE	02/07/24 02:59

Lab Chronicle

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

Job ID: 410-159022-1

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

Lab Sample ID: 410-159022-8

Date Collected: 01/29/24 10:10

Matrix: Water

Date Received: 01/30/24 11:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	470708	JS6E	ELLE	02/07/24 04:44
Total/NA	Analysis	8260D	DL	10	470708	JS6E	ELLE	02/07/24 05:05

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

Lab Sample ID: 410-159022-9

Date Collected: 01/29/24 10:53

Matrix: Water

Date Received: 01/30/24 11:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	470708	JS6E	ELLE	02/07/24 03:20

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

Lab Sample ID: 410-159022-10

Date Collected: 01/29/24 11:20

Matrix: Water

Date Received: 01/30/24 11:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	470708	JS6E	ELLE	02/07/24 03:41

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

Lab Sample ID: 410-159022-11

Date Collected: 01/29/24 12:40

Matrix: Water

Date Received: 01/30/24 11:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	470708	JS6E	ELLE	02/07/24 04:02

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

Lab Sample ID: 410-159022-12

Date Collected: 01/29/24 09:08

Matrix: Water

Date Received: 01/30/24 11:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	470708	JS6E	ELLE	02/07/24 04:23

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

Lab Sample ID: 410-159022-13

Date Collected: 01/29/24 12:00

Matrix: Water

Date Received: 01/30/24 11:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	470708	JS6E	ELLE	02/07/24 05:26
Total/NA	Analysis	8260D	DL	10	470708	JS6E	ELLE	02/07/24 05:47

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

Lab Sample ID: 410-159022-14

Date Collected: 01/29/24 00:00

Matrix: Water

Date Received: 01/30/24 11:48

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	470708	JS6E	ELLE	02/06/24 21:44

Lab Chronicle

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

Job ID: 410-159022-1

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 410-159022-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-28-25

Method Summary

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

Job ID: 410-159022-1

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

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

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

Sample Summary

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

Job ID: 410-159022-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-159022-1	HD-COD-SW-6-0/1-0	Water	01/29/24 10:30	01/30/24 11:48
410-159022-2	HD-COD-SW-7-0/1-0	Water	01/29/24 11:10	01/30/24 11:48
410-159022-3	HD-COD-SW-8-0/1-0	Water	01/29/24 09:20	01/30/24 11:48
410-159022-4	HD-COD-SW-9-0/1-0	Water	01/29/24 12:24	01/30/24 11:48
410-159022-5	HD-COD-SW-13-0/1-0	Water	01/29/24 09:38	01/30/24 11:48
410-159022-6	HD-COD-SW-15-0/1-0	Water	01/29/24 11:33	01/30/24 11:48
410-159022-7	HD-COD-SW-16-0/1-0	Water	01/29/24 10:00	01/30/24 11:48
410-159022-8	HD-COD-SW-17-0/1-0	Water	01/29/24 10:10	01/30/24 11:48
410-159022-9	HD-COD-SW-26-0/1-0	Water	01/29/24 10:53	01/30/24 11:48
410-159022-10	HD-COD-SW-27-0/1-0	Water	01/29/24 11:20	01/30/24 11:48
410-159022-11	HD-COD-SW-28-0/1-0	Water	01/29/24 12:40	01/30/24 11:48
410-159022-12	HD-COD-SW-29-0/1-0	Water	01/29/24 09:08	01/30/24 11:48
410-159022-13	HD-QC1-0/1-1	Water	01/29/24 12:00	01/30/24 11:48
410-159022-14	HD-QC1-0/1-2	Water	01/29/24 00:00	01/30/24 11:48

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-159022-1

SDG No.:

Instrument ID: 19930

Analysis Batch Number: 434273

Lab Sample ID: IC 410-434273/13

Client Sample ID:

Date Analyzed: 10/23/23 02:29

Lab File ID: IO22X12.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.34	Baseline	UKEK	10/31/23 08:30
Methyl acetate	3.73	Baseline	DVW2	10/24/23 08:47
t-Butyl alcohol-d10 (IS)	3.91	Incomplete Integration	DVW2	10/24/23 08:30
Tetrahydrofuran	6.17	Incomplete Integration	DVW2	10/24/23 08:30
Isobutyl alcohol	6.91	Incomplete Integration	DVW2	10/24/23 08:31
n-Butanol	8.01	Incomplete Integration	DVW2	10/24/23 08:31
Methyl methacrylate	8.33	Incomplete Integration	DVW2	10/24/23 08:31

Lab Sample ID: IC 410-434273/14

Client Sample ID:

Date Analyzed: 10/23/23 02:50

Lab File ID: IO22X13.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.13	Incomplete Integration	DVW2	10/24/23 08:32
Acetone	3.31	Incomplete Integration	DVW2	10/24/23 08:32
Methyl acetate	3.73	Baseline	DVW2	10/24/23 08:48
t-Butyl alcohol-d10 (IS)	3.90	Incomplete Integration	DVW2	10/24/23 08:32

Lab Sample ID: IC 410-434273/15

Client Sample ID:

Date Analyzed: 10/23/23 03:11

Lab File ID: IO22X14.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.31	Baseline	UKEK	10/31/23 08:41
Methyl acetate	3.70	Baseline	DVW2	10/24/23 08:48
t-Butyl alcohol-d10 (IS)	3.91	Incomplete Integration	DVW2	10/24/23 08:33

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-159022-1

SDG No.:

Instrument ID: 19930

Analysis Batch Number: 434273

Lab Sample ID: IC 410-434273/16

Client Sample ID:

Date Analyzed: 10/23/23 03:32

Lab File ID: IO22X15.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.71	Baseline	DVW2	10/24/23 08:48
t-Butyl alcohol-d10 (IS)	3.91	Incomplete Integration	DVW2	10/24/23 08:34

Lab Sample ID: IC 410-434273/17

Client Sample ID:

Date Analyzed: 10/23/23 03:53

Lab File ID: IO22X16.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.72	Baseline	DVW2	10/24/23 08:49
t-Butyl alcohol-d10 (IS)	3.92	Incomplete Integration	DVW2	10/24/23 08:36

Lab Sample ID: ICIS 410-434273/18

Client Sample ID:

Date Analyzed: 10/23/23 04:14

Lab File ID: IO22X17.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.31	Incomplete Integration	DVW2	10/24/23 08:22
Methyl acetate	3.70	Incomplete Integration	DVW2	10/24/23 08:20
t-Butyl alcohol-d10 (IS)	3.90	Incomplete Integration	DVW2	10/24/23 08:18
m&p-Xylene	11.19	Incomplete Integration	DVW2	10/24/23 08:22

Lab Sample ID: IC 410-434273/19

Client Sample ID:

Date Analyzed: 10/23/23 04:35

Lab File ID: IO22X18.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.30	Incomplete Integration	DVW2	10/24/23 08:38
Methyl acetate	3.69	Baseline	DVW2	10/24/23 08:50
t-Butyl alcohol-d10 (IS)	3.90	Incomplete Integration	DVW2	10/24/23 08:38

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-159022-1

SDG No.:

Instrument ID: 19930

Analysis Batch Number: 434273

Lab Sample ID: ICV 410-434273/21

Client Sample ID:

Date Analyzed: 10/23/23 05:17

Lab File ID: IO22X20.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.70	Baseline	DVW2	10/24/23 08:51

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-159022-1

SDG No.:

Instrument ID: 19930

Analysis Batch Number: 470708

Lab Sample ID: CCVIS 410-470708/3

Client Sample ID:

Date Analyzed: 02/06/24 20:07

Lab File ID: IF06X02.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.73	Incomplete Integration	JS6E	02/06/24 21:12

Lab Sample ID: 410-159022-1

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

Date Analyzed: 02/07/24 01:14

Lab File ID: IF06X16.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone		Invalid Compound ID	N9NA	02/07/24 14:09

Lab Sample ID: 410-159022-4

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

Date Analyzed: 02/07/24 02:17

Lab File ID: IF06X19.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	5.84	Incomplete Integration	N9NA	02/07/24 15:03

Lab Sample ID: 410-159022-10

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

Date Analyzed: 02/07/24 03:41

Lab File ID: IF06X23.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	5.82	Peak assignment corrected	FQ4L	02/08/24 07:14

Lab Sample ID: 410-159022-8

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

Date Analyzed: 02/07/24 04:44

Lab File ID: IF06X26.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloroethane		Invalid Compound ID	N9NA	02/08/24 07:21

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-159022-1

SDG No.:

Instrument ID: 19930

Analysis Batch Number: 470708

Lab Sample ID: 410-159022-13

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

Date Analyzed: 02/07/24 05:26

Lab File ID: IF06X28.D

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

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloroethane		Invalid Compound ID	N9NA	02/08/24 07:22

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-159022-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_LCS_VOC#1_00135	11/21/23	10/22/23	Methanol, Lot EG095	25 mL	MSV_M_MIX1SEC_00162	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_00161	1 mL	Carbon disulfide	40 ug/mL
					MSV_Q_Ketones_00157	1 mL	Methyl tert-butyl ether	40 ug/mL
							2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00162	06/30/26	Restek, Lot A0198667			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-159022-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
.MSV_M_MIX2SEC_00161	04/30/26		Restek, Lot A0197573		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00157	04/30/25		Restek, Lot A0184721		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LCS_VOC#1_00152	03/05/24	02/04/24	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00181	1 mL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							Benzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Methylene Chloride	40 ug/mL
							Styrene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-159022-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00182	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
							MSV_Q_Ketones_00178	1 mL
					2-Hexanone	500 ug/mL		
					4-Methyl-2-pentanone (MIBK)	500 ug/mL		
		Acetone	500 ug/mL					
.MSV_M_MIX1SEC_00181	06/30/26	Restek, Lot A0198667		(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_00182	04/30/26	Restek, Lot A0197573	
Methyl tert-butyl ether	1000 ug/mL							
.MSV_Q_Ketones_00178	02/28/26	Restek, Lot A0194631		(Purchased Reagent)	2-Butanone (MEK)	12500 ug/mL		
					2-Hexanone	12500 ug/mL		
					4-Methyl-2-pentanone (MIBK)	12500 ug/mL		
					Acetone	12500 ug/mL		
MSV_LL_#1_826_00100	11/16/23	10/22/23	Methanol, Lot EG095	1 mL	MSV_CCV_VOC#1_00151	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-159022-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-159022-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,4-Dioxane	2500 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							2-Nitropropane	250 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Acrylonitrile	125 ug/mL
							Benzyl chloride	50 ug/mL
							Carbon disulfide	50 ug/mL
							Cyclohexane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropyl ether	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl acetate	50 ug/mL
							Methyl methacrylate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							n-Butanol	4375 ug/mL
							n-Heptane	50 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
							Tetrahydrofuran	250 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_CCV_VOC#3_00148	200 uL	Acrolein	2500.06 ug/mL
							2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					MSV_V_VOA2_00211	150 uL	1,4-Dioxane	2500 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	4375 ug/mL
							Propionitrile	1000 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
							1,1,1,2-Tetrachloroethane	1000 ug/mL
.MSV_CCV_VOC#1_00151	11/21/23	10/22/23	Methanol, Lot EG095	5 mL	MSV_MegaMIX#1_00149	1 mL	1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-159022-1

SDG No.:

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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00145	1 mL	1,1,2-Trichloro-1,2,2-trifluor oethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Chloro-1,3-butadiene	1000 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							2-Nitropropane	5000 ug/mL
							3-Chloro-1-propene	1000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzyl chloride	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL
							Hexane	1000 ug/mL
							Iodomethane	1000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl ether	1000 ug/mL
							Methacrylonitrile	2500 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							n-Butanol	12500 ug/mL
							n-Heptane	1000 ug/mL
							Propionitrile	5000 ug/mL
							Tert-amyl methyl ether	1000 ug/mL
							Tert-butyl ethyl ether	1000 ug/mL
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_MegaMIX#1_00149	11/21/23	Restek, Lot A0197556			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-159022-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trimethylbenzene	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL
							2-Chlorotoluene	5000 ug/mL
							4-Chlorotoluene	5000 ug/mL
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00145	11/21/23		Restek, Lot A0197578		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2,3-Trimethylbenzene	5000 ug/mL
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-159022-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							2-Nitropropane	25000 ug/mL
							3-Chloro-1-propene	5000 ug/mL
							Acrylonitrile	12500 ug/mL
							Benzyl chloride	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Hexane	5000 ug/mL
							Iodomethane	5000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl ether	5000 ug/mL
							Methacrylonitrile	12500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
							n-Butanol	62500 ug/mL
							n-Heptane	5000 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	5000 ug/mL
							Tetrahydrofuran	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
.MSV_CCV_VOC#3_00148	11/16/23	10/22/23	Methanol, Lot EG095	5 mL	MSV_CCV_ACR_00013	0.5 mL	Acrolein	12500.3 ug/mL
					MSV_V_Ketones_00144	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_00013	11/16/23	09/17/23	Methanol, Lot EG095	10 mL	MSV_VACR_STK_00035	9.299 mL	Acrolein	125003 ug/mL
...MSV_VACR_STK_00035	11/16/23	09/17/23	Methanol, Lot EG095	10 mL	MSV_ACROLEIN_00029	1.447 g	Acrolein	134426 ug/mL
....MSV_ACROLEIN_00029	06/30/24		Chem Service, Lot 14451400		(Purchased Reagent)		Acrolein	0.929 g/g
..MSV_V_Ketones_00144	01/31/26		Restek, Lot A0193494		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.MSV_V_VOA2_00211	11/21/23	10/22/23	Methanol, Lot EG095	5 mL	MSV_V#2B_00339	1 mL	1,4-Dioxane	12500 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Methacrylonitrile	2500 ug/mL
							n-Butanol	25000 ug/mL
							Propionitrile	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_V#2B_00339	05/31/25		Restek, Lot A0197599		(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-159022-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isobutyl alcohol	62500 ug/mL
							Methacrylonitrile	12500 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_LL_#1_826_00115	02/25/24	02/04/24	Methanol, Lot EG095	1 mL	MSV_CCV_VOC#1_00169	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Carbon disulfide	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
					MSV_CCV_VOC#3_00165	200 uL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
.MSV_CCV_VOC#1_00169	03/05/24	02/04/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00165	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-159022-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
							Carbon disulfide	1000 ug/mL
..MSV_MegaMIX#1_00165	03/05/24	Restek, Lot A0197556			MSV_MegaMix#2_00161	1 mL	Methyl tert-butyl ether	1000 ug/mL
					(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							Benzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Methylene Chloride	5000 ug/mL
							Styrene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00161	05/05/24		Restek, Lot A0197578		(Purchased Reagent)		Carbon disulfide	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
.MSV_CCV_VOC#3_00165	02/25/24	02/04/24	Methanol, Lot EH471	5 mL	MSV_V_Ketones_00159	1 mL	2-Butanone (MEK)	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone (MIBK)	2500 ug/mL
							Acetone	2500 ug/mL
..MSV_V_Ketones_00159	01/31/26		Restek, Lot A0193494		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LL_#2_826_00109	10/31/23	10/22/23	Methanol, Lot EG095	1 mL	CCV_ETBR_00005	50 uL	Ethyl bromide	49.9548 ug/mL
					MSV_BCE_00062	25 uL	1-Bromo-2-chloroethane	50 ug/mL
					MSV_CCV_EE_00005	50 uL	Ethyl ether	50.0068 ug/mL
					MSV_V_PentaCL_00037	10 uL	Pentachloroethane	50 ug/mL
.CCV_ETBR_00005	11/15/23	05/16/23	Methanol, Lot EG095	10 mL	MSV_VETBR_STK_00014	0.228 mL	Ethyl bromide	999.096 ug/mL
..MSV_VETBR_STK_00014	11/15/23	05/16/23	Methanol, Lot EG095	10 mL	MSV_EtBr_00007	0.4382 g	Ethyl bromide	43820 ug/mL
...MSV_EtBr_00007	06/30/25		Chem Service, Lot 13345600		(Purchased Reagent)		Ethyl bromide	1 g/g
.MSV_BCE_00062	10/31/23		Restek, Lot A0197429		(Purchased Reagent)		1-Bromo-2-chloroethane	2000 ug/mL
.MSV_CCV_EE_00005	11/10/23	05/10/23	Methanol, Lot EG095	50 mL	MSV_EE_MISCSK_00012	1.686 mL	Ethyl ether	1000.14 ug/mL
..MSV_EE_MISCSK_00012	11/10/23	05/10/23	Methanol, Lot EG095	10 mL	MSV_EE_Neat_00009	0.2966 g	Ethyl ether	29660 ug/mL
...MSV_EE_Neat_00009	05/30/27		Chem Service, Lot 14084700		(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_PentaCL_00037	11/07/23		Restek, Lot A0184174		(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_LL_GAS826_00175	10/29/23	10/22/23	Methanol, Lot EG095	1 mL	MSV_CCV_GASES_00608	25 uL	1,2-Dichloro-1,1,2-trifluoroet hane	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_00608	10/29/23		Restek, Lot A0197586		(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroet hane	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_00190	02/09/24	02/04/24	Methanol, Lot EG095	1 mL	MSV_CCV_GASES_00718	25 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-159022-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00718	02/09/24		Restek, Lot A0198362		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LLcentISS_00009	01/06/24	07/06/23	Methanol, Lot EG095	50 mL	MSV_8260_SS_00953	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
					MSV_Cus826_IS_00582	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5 (IS)	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							t-Butyl alcohol-d10 (IS)	250 ug/mL
.MSV_8260_SS_00953	02/29/28		Restek, Lot A0195060		(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_00582	04/30/26		Restek, Lot A0197488		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_LLcentISS_00012	08/01/24	02/01/24	Methanol, Lot EG095	50 mL	MSV_Cus826_IS_00663	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5 (IS)	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							t-Butyl alcohol-d10 (IS)	250 ug/mL
.MSV_Cus826_IS_00663	10/31/26		Restek, Lot A0203141		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_LLcentISS_00012	08/01/24	02/01/24	Methanol, Lot EG095	50 mL	MSV_8260_SS_01091	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.MSV_8260_SS_01091	05/30/28		Restek, Lot A0201083		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
MSV_QC_Gas826_00165	10/29/23	10/22/23	Methanol, Lot EG095	1 mL	MSV_QC_2K_GAS_00183	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00183	10/29/23		Restek, Lot A0184924		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-159022-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	2000 ug/mL
MSV_QC_Gas826_00182	02/11/24	02/04/24	Methanol, Lot EG095	1 mL	MSV_QC_2K_GAS_00154	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00154	02/11/24		Restek, Lot A0184924		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_V_BFB_00012							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Xylenes, Total	
					MSV_VBFB_STK_00010	0.096 mL	BFB	49.7971 ug/mL
.MSV_VBFB_STK_00010	12/13/23	06/13/23	Methanol, Lot EG095	10 mL	MSV_4BFB_NEAT_00010	1.2968 g	BFB	129680 ug/mL
..MSV_4BFB_NEAT_00010	05/31/25		Chem Service, Lot 13775500		(Purchased Reagent)		BFB	1 g/g
MSV_V_BFB_00016							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Xylenes, Total	
					MSV_VBFB_STK_00011	0.098 mL	BFB	50.129 ug/mL
.MSV_VBFB_STK_00011	06/05/24	12/05/23	Methanol, Lot EG095	10 mL	MSV_4BFB_NEAT_00009	1.2788 g	BFB	127880 ug/mL
..MSV_4BFB_NEAT_00009	05/31/25		Chem Service, Lot 13775500		(Purchased Reagent)		BFB	1 g/g

Reagent

MSV_QC_2K_GAS_00154



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Column:

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

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

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

Inj. Temp:

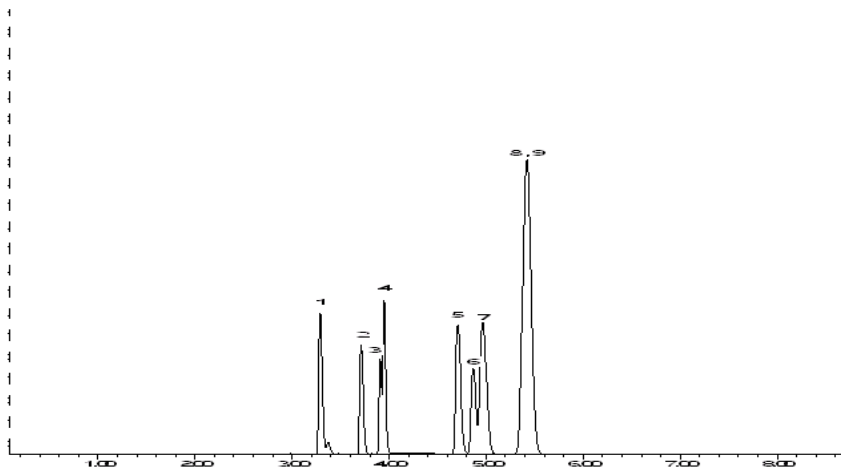
200°C

Det. Temp:

250°C

Det. Type:

MSD



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

Brandon Reish
Brandon Reish - Mix Technician

Date Mixed: 05-May-2022

Balance: 1127510105

Marlina Cowan
Marlina Cowan - Operations Tech I

Date Passed: 10-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Method 8260D Low Level

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

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	410-159022-1	93	103	102	96
HD-COD-SW-7-0/1-0	410-159022-2	94	105	102	96
HD-COD-SW-8-0/1-0	410-159022-3	95	106	103	97
HD-COD-SW-9-0/1-0	410-159022-4	93	104	103	96
HD-COD-SW-13-0/1-0	410-159022-5	92	104	103	97
HD-COD-SW-15-0/1-0	410-159022-6	95	106	103	97
HD-COD-SW-16-0/1-0	410-159022-7	94	102	102	96
HD-COD-SW-17-0/1-0	410-159022-8	94	105	100	95
HD-COD-SW-17-0/1-0 DL	410-159022-8 DL	95	106	101	95
HD-COD-SW-26-0/1-0	410-159022-9	94	105	102	95
HD-COD-SW-27-0/1-0	410-159022-10	95	105	102	96
HD-COD-SW-28-0/1-0	410-159022-11	94	105	101	96
HD-COD-SW-29-0/1-0	410-159022-12	95	106	102	95
HD-QC1-0/1-1	410-159022-13	95	105	100	95
HD-QC1-0/1-1 DL	410-159022-13 DL	94	105	102	96
HD-QC1-0/1-2	410-159022-14	93	103	102	96
	MB 410-470708/6	92	105	103	97
	LCS 410-470708/4	90	102	104	101
HD-COD-SW-15-0/1-0 MS MS	410-159022-6 MS	91	104	104	100
HD-COD-SW-15-0/1-0 MSD MSD	410-159022-6 MSD	91	103	103	100

QC LIMITS

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

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

Column to be used to flag recovery values

FORM II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: IF06X03.D

Lab ID: LCS 410-470708/4

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	4.99	100	71-134	
1,1,1-Trichloroethane	5.00	4.58	92	78-126	
1,1,2,2-Tetrachloroethane	5.00	6.55	131	75-123	*+
1,1,2-Trichloroethane	5.00	5.85	117	80-120	
1,1-Dichloroethane	5.00	5.61	112	74-120	
1,1-Dichloroethene	5.00	5.23	105	80-131	
1,2-Dibromoethane (EDB)	5.00	5.71	114	80-120	
1,2-Dichloroethane	5.00	4.83	97	69-122	
1,2-Dichloropropane	5.00	6.02	120	80-120	
2-Butanone (MEK)	62.5	68.0	109	59-141	
2-Hexanone	62.5	64.7	103	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	64.2	103	55-140	
Acetone	62.5	62.6	100	60-146	
Benzene	5.00	5.53	111	80-120	
Bromochloromethane	5.00	5.01	100	80-120	
Bromodichloromethane	5.00	5.15	103	73-124	
Bromoform	5.00	5.03	101	49-144	
Bromomethane	5.00	3.55	71	60-136	
Carbon disulfide	5.00	5.21	104	67-130	
Carbon tetrachloride	5.00	4.52	90	64-141	
Chlorobenzene	5.00	5.35	107	80-120	
Chloroethane	5.00	4.25	85	63-120	
Chloroform	5.00	4.97	99	80-120	
Chloromethane	5.00	4.13	83	56-124	
cis-1,2-Dichloroethene	5.00	5.23	105	80-122	
cis-1,3-Dichloropropene	5.00	5.30	106	67-121	
Dibromochloromethane	5.00	5.41	108	64-138	
Ethylbenzene	5.00	5.46	109	80-120	
Methyl tert-butyl ether	5.00	4.97	99	69-120	
Methylene Chloride	5.00	5.49	110	80-120	
Styrene	5.00	5.40	108	80-120	
Tetrachloroethene	5.00	4.84	97	80-120	
Toluene	5.00	5.53	111	80-120	
trans-1,2-Dichloroethene	5.00	5.14	103	80-122	
trans-1,3-Dichloropropene	5.00	5.90	118	61-129	
Trichloroethene	5.00	4.95	99	80-120	
Vinyl chloride	5.00	3.92	78	60-125	
Xylenes, Total	15.0	15.8	106	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: IF06X13.D

Lab ID: 410-159022-6 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	5.36	107	71-134	
1,1,1-Trichloroethane	5.00	0.090 J	5.48	108	78-126	
1,1,2,2-Tetrachloroethane	5.00	ND	6.57	131	75-123	FH
1,1,2-Trichloroethane	5.00	ND	6.17	123	80-120	FH
1,1-Dichloroethane	5.00	ND	6.38	128	74-120	FH
1,1-Dichloroethene	5.00	ND	6.33	126	80-131	
1,2-Dibromoethane (EDB)	5.00	ND	6.01	120	80-120	
1,2-Dichloroethane	5.00	ND	5.11	102	69-122	
1,2-Dichloropropane	5.00	ND	6.56	131	80-120	FH
2-Butanone (MEK)	62.6	ND	79.3	127	59-141	
2-Hexanone	62.6	ND	74.8	120	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	ND	75.4	120	55-140	
Acetone	62.6	ND	74.6	119	60-146	
Benzene	5.00	ND	6.27	125	80-120	FH
Bromochloromethane	5.00	ND	5.60	112	80-120	
Bromodichloromethane	5.00	ND	5.62	112	73-124	
Bromoform	5.00	ND	5.03	101	49-144	
Bromomethane	5.00	ND	4.41	88	60-136	
Carbon disulfide	5.00	ND	6.25	125	67-130	
Carbon tetrachloride	5.00	ND	5.41	108	64-141	
Chlorobenzene	5.00	ND	5.98	119	80-120	
Chloroethane	5.00	ND	5.24	105	63-120	
Chloroform	5.00	ND	5.61	112	80-120	
Chloromethane	5.00	ND	5.42	108	80-120	
cis-1,2-Dichloroethene	5.00	0.61	6.53	118	80-122	
cis-1,3-Dichloropropene	5.00	ND	5.67	113	67-121	
Dibromochloromethane	5.00	ND	5.69	114	64-138	
Ethylbenzene	5.00	ND	6.16	123	80-120	FH
Methyl tert-butyl ether	5.00	ND	5.10	102	69-120	
Methylene Chloride	5.00	ND	6.13	122	80-120	FH
Styrene	5.00	ND	5.92	118	80-120	
Tetrachloroethene	5.00	1.9	7.69	115	80-120	
Toluene	5.00	ND	6.27	125	80-120	FH
trans-1,2-Dichloroethene	5.00	ND	5.94	119	80-122	
trans-1,3-Dichloropropene	5.00	ND	6.14	123	61-129	
Trichloroethene	5.00	0.58	6.32	115	80-120	
Vinyl chloride	5.00	ND	5.34	107	60-125	
Xylenes, Total	15.0	ND	17.8	118	80-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: IF06X14.D

Lab ID: 410-159022-6 MSD

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

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	5.00	5.43	109	1	30	71-134	
1,1,1-Trichloroethane	5.00	5.59	110	2	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	6.87	137	4	30	75-123	FH
1,1,2-Trichloroethane	5.00	6.21	124	1	30	80-120	FH
1,1-Dichloroethane	5.00	6.58	131	3	30	74-120	FH
1,1-Dichloroethene	5.00	6.45	129	2	30	80-131	
1,2-Dibromoethane (EDB)	5.00	6.18	123	3	30	80-120	FH
1,2-Dichloroethane	5.00	5.23	104	2	30	69-122	
1,2-Dichloropropane	5.00	6.77	135	3	30	80-120	FH
2-Butanone (MEK)	62.6	80.3	128	1	30	59-141	
2-Hexanone	62.6	77.5	124	4	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	76.9	123	2	30	55-140	
Acetone	62.6	76.0	122	2	30	60-146	
Benzene	5.00	6.35	127	1	30	80-120	FH
Bromochloromethane	5.00	5.62	112	0	30	80-120	
Bromodichloromethane	5.00	5.68	113	1	30	73-124	
Bromoform	5.00	5.22	104	4	30	49-144	
Bromomethane	5.00	4.32	86	2	30	60-136	
Carbon disulfide	5.00	6.39	128	2	30	67-130	
Carbon tetrachloride	5.00	5.50	110	2	30	64-141	
Chlorobenzene	5.00	6.01	120	1	30	80-120	
Chloroethane	5.00	5.10	102	3	30	63-120	
Chloroform	5.00	5.70	114	2	30	80-120	
Chloromethane	5.00	5.21	104	4	30	80-120	
cis-1,2-Dichloroethene	5.00	6.67	121	2	30	80-122	
cis-1,3-Dichloropropene	5.00	5.82	116	3	30	67-121	
Dibromochloromethane	5.00	5.78	116	2	30	64-138	
Ethylbenzene	5.00	6.28	126	2	30	80-120	FH
Methyl tert-butyl ether	5.00	5.29	106	4	30	69-120	
Methylene Chloride	5.00	6.17	123	1	30	80-120	FH
Styrene	5.00	5.95	119	1	30	80-120	
Tetrachloroethene	5.00	7.73	116	1	30	80-120	
Toluene	5.00	6.42	128	2	30	80-120	FH
trans-1,2-Dichloroethene	5.00	6.17	123	4	30	80-122	FH
trans-1,3-Dichloropropene	5.00	6.35	127	3	30	61-129	
Trichloroethene	5.00	6.42	117	2	30	80-120	
Vinyl chloride	5.00	5.24	105	2	30	60-125	
Xylenes, Total	15.0	17.9	119	1	30	80-120	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

Lab File ID: IF06X05.D

Lab Sample ID: MB 410-470708/6

Matrix: Water

Heated Purge: (Y/N) N

Instrument ID: 19930

Date Analyzed: 02/06/2024 21:09

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 410-470708/4	IF06X03.D	02/06/2024 20:28
HD-QC1-0/1-2	410-159022-14	IF06X06.D	02/06/2024 21:44
HD-COD-SW-15-0/1-0	410-159022-6	IF06X12.D	02/06/2024 23:50
HD-COD-SW-15-0/1-0 MS MS	410-159022-6 MS	IF06X13.D	02/07/2024 00:11
HD-COD-SW-15-0/1-0 MSD MSD	410-159022-6 MSD	IF06X14.D	02/07/2024 00:32
HD-COD-SW-6-0/1-0	410-159022-1	IF06X16.D	02/07/2024 01:14
HD-COD-SW-7-0/1-0	410-159022-2	IF06X17.D	02/07/2024 01:35
HD-COD-SW-8-0/1-0	410-159022-3	IF06X18.D	02/07/2024 01:56
HD-COD-SW-9-0/1-0	410-159022-4	IF06X19.D	02/07/2024 02:17
HD-COD-SW-13-0/1-0	410-159022-5	IF06X20.D	02/07/2024 02:38
HD-COD-SW-16-0/1-0	410-159022-7	IF06X21.D	02/07/2024 02:59
HD-COD-SW-26-0/1-0	410-159022-9	IF06X22.D	02/07/2024 03:20
HD-COD-SW-27-0/1-0	410-159022-10	IF06X23.D	02/07/2024 03:41
HD-COD-SW-28-0/1-0	410-159022-11	IF06X24.D	02/07/2024 04:02
HD-COD-SW-29-0/1-0	410-159022-12	IF06X25.D	02/07/2024 04:23
HD-COD-SW-17-0/1-0	410-159022-8	IF06X26.D	02/07/2024 04:44
HD-COD-SW-17-0/1-0 DL	410-159022-8 DL	IF06X27.D	02/07/2024 05:05
HD-QC1-0/1-1	410-159022-13	IF06X28.D	02/07/2024 05:26
HD-QC1-0/1-1 DL	410-159022-13 DL	IF06X29.D	02/07/2024 05:47

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

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1
Environment Testing, LLC

SDG No.: _____

Lab File ID: IO22T01.D BFB Injection Date: 10/22/2023

Instrument ID: 19930 BFB Injection Time: 22:21

Analysis Batch No.: 434273

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.4
75	30.0 - 60.0 % of mass 95	51.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.6
173	Less than 2.0 % of mass 174	1.2 (1.2) 1
174	Greater than 50% of mass 95	98.6
175	5.0 - 9.0 % of mass 174	7.3 (7.4) 1
176	95.0 - 101.0 % of mass 174	96.6 (98.0) 1
177	5.0 - 9.0 % of mass 176	6.6 (6.8) 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 410-434273/13	IO22X12.D	10/23/2023	2:29
	IC 410-434273/14	IO22X13.D	10/23/2023	2:50
	IC 410-434273/15	IO22X14.D	10/23/2023	3:11
	IC 410-434273/16	IO22X15.D	10/23/2023	3:32
	IC 410-434273/17	IO22X16.D	10/23/2023	3:53
	ICIS 410-434273/18	IO22X17.D	10/23/2023	4:14
	IC 410-434273/19	IO22X18.D	10/23/2023	4:35
	ICV 410-434273/21	IO22X20.D	10/23/2023	5:17

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

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

Lab File ID: IF06T01.D

BFB Injection Date: 02/06/2024

Instrument ID: 19930

BFB Injection Time: 19:32

Analysis Batch No.: 470708

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	47.5
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	0.8 (0.8) 1
174	Greater than 50% of mass 95	91.3
175	5.0 - 9.0 % of mass 174	6.7 (7.3) 1
176	95.0 - 101.0 % of mass 174	88.0 (96.3) 1
177	5.0 - 9.0 % of mass 176	5.6 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-470708/3	IF06X02.D	02/06/2024	20:07
	LCS 410-470708/4	IF06X03.D	02/06/2024	20:28
	MB 410-470708/6	IF06X05.D	02/06/2024	21:09
HD-QC1-0/1-2	410-159022-14	IF06X06.D	02/06/2024	21:44
HD-COD-SW-15-0/1-0	410-159022-6	IF06X12.D	02/06/2024	23:50
HD-COD-SW-15-0/1-0 MS MS	410-159022-6 MS	IF06X13.D	02/07/2024	0:11
HD-COD-SW-15-0/1-0 MSD MSD	410-159022-6 MSD	IF06X14.D	02/07/2024	0:32
HD-COD-SW-6-0/1-0	410-159022-1	IF06X16.D	02/07/2024	1:14
HD-COD-SW-7-0/1-0	410-159022-2	IF06X17.D	02/07/2024	1:35
HD-COD-SW-8-0/1-0	410-159022-3	IF06X18.D	02/07/2024	1:56
HD-COD-SW-9-0/1-0	410-159022-4	IF06X19.D	02/07/2024	2:17
HD-COD-SW-13-0/1-0	410-159022-5	IF06X20.D	02/07/2024	2:38
HD-COD-SW-16-0/1-0	410-159022-7	IF06X21.D	02/07/2024	2:59
HD-COD-SW-26-0/1-0	410-159022-9	IF06X22.D	02/07/2024	3:20
HD-COD-SW-27-0/1-0	410-159022-10	IF06X23.D	02/07/2024	3:41
HD-COD-SW-28-0/1-0	410-159022-11	IF06X24.D	02/07/2024	4:02
HD-COD-SW-29-0/1-0	410-159022-12	IF06X25.D	02/07/2024	4:23
HD-COD-SW-17-0/1-0	410-159022-8	IF06X26.D	02/07/2024	4:44
HD-COD-SW-17-0/1-0 DL	410-159022-8 DL	IF06X27.D	02/07/2024	5:05
HD-QC1-0/1-1	410-159022-13	IF06X28.D	02/07/2024	5:26
HD-QC1-0/1-1 DL	410-159022-13 DL	IF06X29.D	02/07/2024	5:47

FORM VIII

Job No.: 410-159022-1

Sample No.: ICIS 410-434273/18

Date Analyzed: 10/23/2023 04:14

Instrument ID: 19930

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

Lab File ID (Standard): IO22X17.D

Heated Purge: (Y/N) N

Calibration ID: 54988

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		179329	3.90	1932713	7.39	1559233	10.96
UPPER LIMIT		358658	4.40	3865426	7.89	3118466	11.46
LOWER LIMIT		89665	3.40	966357	6.89	779617	10.46
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-434273/21		166398	3.90	1792895	7.39	1450000	10.96
CCVIS 410-470708/3		186881	3.94	1966910	7.41	1499971	10.95

TBAd10 = t-Butyl alcohol-d10 (IS)

FB = Fluorobenzene (IS)

CBZd5 = Chlorobenzene-d5 (IS)

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

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

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

FORM VIII

Job No.: 410-159022-1

Sample No.: ICIS 410-434273/18

Date Analyzed: 10/23/2023 04:14

GC Column: R-624SilMS 30m

ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration ID: 54988

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		947359	12.86				
UPPER LIMIT		1894718	13.36				
LOWER LIMIT		473680	12.36				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-434273/21		881588	12.86				
CCVIS 410-470708/3		846643	12.84				

DCBd4 = 1,4-Dichlorobenzene-d4

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

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

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

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1
 Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-470708/3 Date Analyzed: 02/06/2024 20:07

Instrument ID: 19930 GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): IF06X02.D Heated Purge: (Y/N) N

Calibration ID: 54988

		TBA _d 10		FB		CBZ _d 5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		186881	3.94	1966910	7.41	1499971	10.95
UPPER LIMIT		373762	4.44	3933820	7.91	2999942	11.45
LOWER LIMIT		93441	3.44	983455	6.91	749986	10.45
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-470708/4		174923	3.93	1711108	7.41	1281688	10.95
MB 410-470708/6		138950	3.93	1607249	7.42	1220432	10.95
410-159022-14	HD-QC1-0/1-2	150428	3.92	1684515	7.40	1280795	10.94
410-159022-6	HD-COD-SW-15-0/1-0	131640	3.94	1556884	7.42	1189811	10.95
410-159022-6 MS	HD-COD-SW-15-0/1-0 MS MS	144447	3.93	1631877	7.42	1231654	10.95
410-159022-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	145838	3.94	1648379	7.42	1241846	10.95
410-159022-1	HD-COD-SW-6-0/1-0	126262	3.94	1568937	7.42	1197762	10.95
410-159022-2	HD-COD-SW-7-0/1-0	122144	3.93	1538715	7.42	1173923	10.95
410-159022-3	HD-COD-SW-8-0/1-0	129160	3.93	1548430	7.41	1184169	10.95
410-159022-4	HD-COD-SW-9-0/1-0	118372	3.93	1558361	7.42	1185006	10.95
410-159022-5	HD-COD-SW-13-0/1-0	128537	3.92	1552535	7.42	1168344	10.95
410-159022-7	HD-COD-SW-16-0/1-0	119615	3.93	1535591	7.42	1163424	10.95
410-159022-9	HD-COD-SW-26-0/1-0	123301	3.92	1521059	7.41	1169170	10.95
410-159022-10	HD-COD-SW-27-0/1-0	123645	3.93	1535853	7.41	1168092	10.95
410-159022-11	HD-COD-SW-28-0/1-0	127227	3.93	1516626	7.42	1163368	10.95
410-159022-12	HD-COD-SW-29-0/1-0	131426	3.93	1522640	7.42	1158860	10.95
410-159022-8	HD-COD-SW-17-0/1-0	132265	3.94	1526023	7.42	1185118	10.95
410-159022-8 DL	HD-COD-SW-17-0/1-0 DL	133300	3.93	1533865	7.42	1183997	10.95
410-159022-13	HD-QC1-0/1-1	122220	3.93	1559006	7.41	1206578	10.95
410-159022-13 DL	HD-QC1-0/1-1 DL	121667	3.93	1548090	7.42	1187925	10.95

TBA_d10 = t-Butyl alcohol-d₁₀ (IS)

FB = Fluorobenzene (IS)

FB = Fluorobenzene (IS)

CBZ_d5 = Chlorobenzene-d₅ (IS)

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

CBZ_d5 = Chlorobenzene-d₅ (IS)

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1
Environment Testing, LLC

SDG No.: _____

Sample No.: CCVIS 410-470708/3 Date Analyzed: 02/06/2024 20:07

Instrument ID: 19930 GC Column: R-624SilMS 30m ID: 0.25 (mm)

Lab File ID (Standard): IF06X02.D Heated Purge: (Y/N) N

Calibration ID: 54988

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		846643	12.84				
UPPER LIMIT		1693286	13.34				
LOWER LIMIT		423322	12.34				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-470708/4		711063	12.84				
MB 410-470708/6		663959	12.84				
410-159022-14	HD-QC1-0/1-2	695154	12.84				
410-159022-6	HD-COD-SW-15-0/1-0	649841	12.84				
410-159022-6 MS	HD-COD-SW-15-0/1-0 MS MS	696267	12.84				
410-159022-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	689064	12.84				
410-159022-1	HD-COD-SW-6-0/1-0	645479	12.84				
410-159022-2	HD-COD-SW-7-0/1-0	641665	12.84				
410-159022-3	HD-COD-SW-8-0/1-0	643903	12.84				
410-159022-4	HD-COD-SW-9-0/1-0	643410	12.84				
410-159022-5	HD-COD-SW-13-0/1-0	629535	12.84				
410-159022-7	HD-COD-SW-16-0/1-0	634269	12.84				
410-159022-9	HD-COD-SW-26-0/1-0	632850	12.84				
410-159022-10	HD-COD-SW-27-0/1-0	640202	12.83				
410-159022-11	HD-COD-SW-28-0/1-0	634167	12.84				
410-159022-12	HD-COD-SW-29-0/1-0	634244	12.84				
410-159022-8	HD-COD-SW-17-0/1-0	637508	12.84				
410-159022-8 DL	HD-COD-SW-17-0/1-0 DL	639752	12.84				
410-159022-13	HD-QC1-0/1-1	647615	12.84				
410-159022-13 DL	HD-QC1-0/1-1 DL	642465	12.84				

DCBd4 = 1,4-Dichlorobenzene-d4

DCBd4 = 1,4-Dichlorobenzene-d4

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

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

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

Lab Sample ID: 410-159022-1

Matrix: Water

Lab File ID: IF06X16.D

Analysis Method: 8260D

Date Collected: 01/29/2024 10:30

Sample wt/vol: 25 (mL)

Date Analyzed: 02/07/2024 01:14

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.: 470708

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	^c *+ cn	0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
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	^c cn	0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
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.: 410-159022-1

SDG No.:

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

Lab Sample ID: 410-159022-1

Matrix: Water

Lab File ID: IF06X16.D

Analysis Method: 8260D

Date Collected: 01/29/2024 10:30

Sample wt/vol: 25 (mL)

Date Analyzed: 02/07/2024 01:14

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.: 470708

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)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X16.D
 Lims ID: 410-159022-A-1
 Client ID: HD-COD-SW-6-0/1-0
 Sample Type: Client
 Inject. Date: 07-Feb-2024 01:14:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105725-017
 Operator ID: gaw91131 Instrument ID: 19930
 Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 07-Feb-2024 14:10:02 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1658

First Level Reviewer: N9NA

Date: 07-Feb-2024 14:10:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.014				ND	7
5 Vinyl chloride	62		2.117				ND	
7 Bromomethane	94		2.446				ND	
8 Chloroethane	64		2.513				ND	
15 1,1-Dichloroethene	96		3.306				ND	
16 Acetone	43		3.330				ND	U
20 Carbon disulfide	76	3.599	3.593	0.006	45	4420	0.0432	
25 Methylene Chloride	84		3.922				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.940	3.940	0.000	27	126262	50.0	
29 Methyl tert-butyl ether	73		4.306				ND	
30 trans-1,2-Dichloroethene	96		4.318				ND	
32 1,1-Dichloroethane	63		4.976				ND	
38 2-Butanone (MEK)	43		5.787				ND	
39 cis-1,2-Dichloroethene	96		5.812				ND	
46 Chlorobromomethane	128		6.147				ND	
48 Chloroform	83	6.324	6.299	0.025	84	2135	0.0260	
\$ 49 Dibromofluoromethane (Surr)	113	6.525	6.519	0.006	94	384605	9.31	
50 1,1,1-Trichloroethane	97		6.525				ND	
54 Carbon tetrachloride	117		6.738				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.976	6.970	0.006	61	83937	10.3	
57 Benzene	78		7.000				ND	
58 1,2-Dichloroethane	62		7.080				ND	
* 61 Fluorobenzene (IS)	96	7.415	7.409	0.006	99	1568937	10.0	
64 Trichloroethene	95	7.909	7.897	0.012	93	2782	0.0568	
66 1,2-Dichloropropane	63		8.220				ND	
71 Dichlorobromomethane	83		8.573				ND	
76 cis-1,3-Dichloropropene	75		9.134				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.311				ND	
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	94	1560275	10.2	
79 Toluene	92	9.543	9.530	0.013	98	3328	0.0294	
97 trans-1,3-Dichloropropene	75		9.805				ND	
100 1,1,2-Trichloroethane	97		10.006				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166		10.097				ND	7
103 2-Hexanone	43		10.231				ND	
105 Chlorodibromomethane	129		10.396				ND	
106 Ethylene Dibromide	107		10.506				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.945	10.945	0.000	85	1197762	10.0	
109 Chlorobenzene	112		10.969				ND	
111 1,1,1,2-Tetrachloroethane	131		11.054				ND	
112 Ethylbenzene	91		11.061				ND	
113 m-Xylene & p-Xylene	106		11.176				ND	7
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.506				ND	
115 Styrene	104		11.524				ND	
116 Bromoform	173		11.682				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.957	11.957	0.000	92	552890	9.55	
121 1,1,2,2-Tetrachloroethane	83		12.054				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.841	12.835	0.006	94	645479	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 07-Feb-2024 14:10:03

Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X16.D

Injection Date: 07-Feb-2024 01:14:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-159022-A-1

Lab Sample ID: 410-159022-1

Worklist Smp#: 17

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

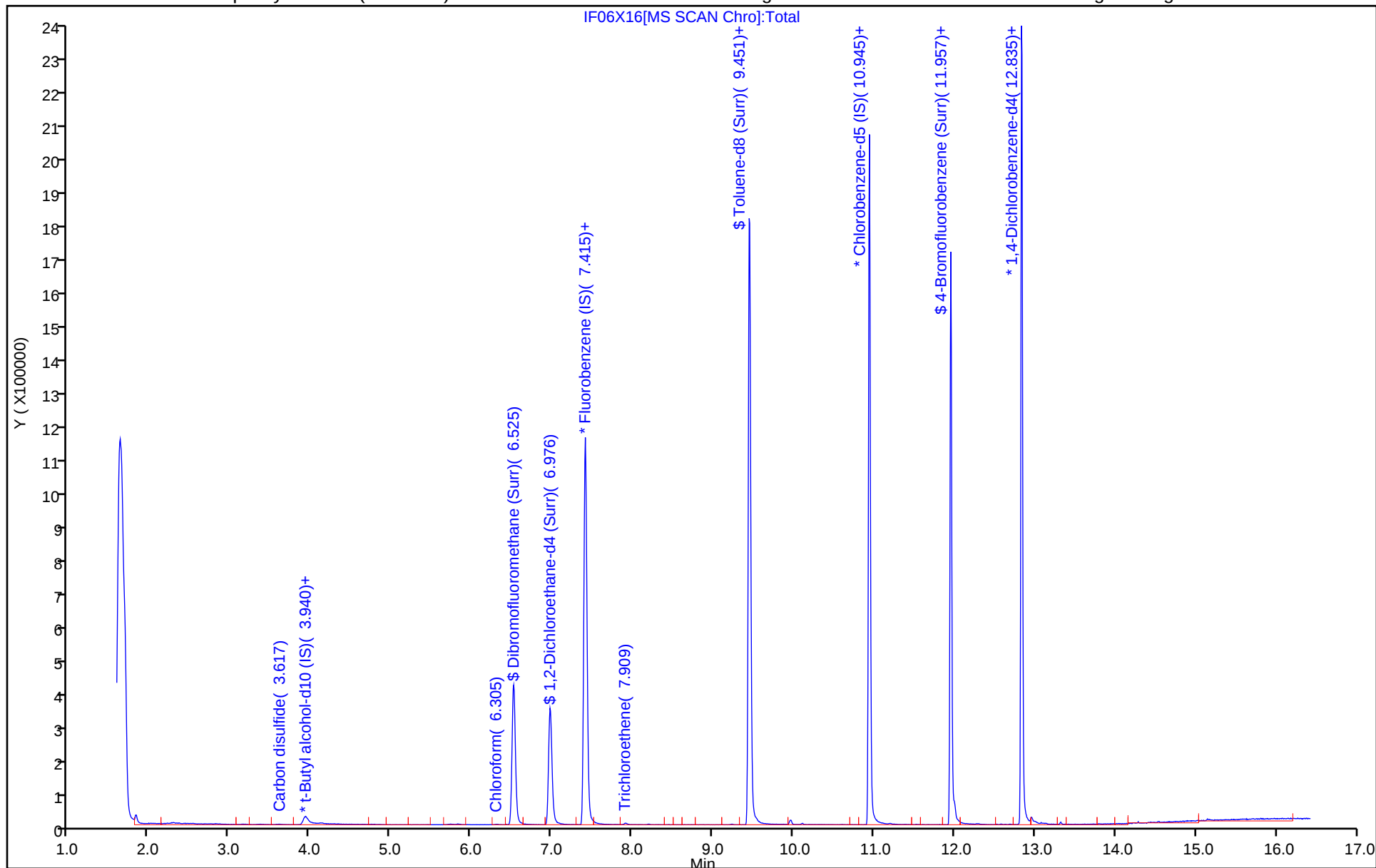
ALS Bottle#: 16

Method: 8260 25ml HP31

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\19930\20240206-105725.b\IF06X16.D
Lims ID: 410-159022-A-1
Client ID: HD-COD-SW-6-0/1-0
Sample Type: Client
Inject. Date: 07-Feb-2024 01:14:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0105725-017
Operator ID: gaw91131 Instrument ID: 19930
Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 07-Feb-2024 14:10:02 Calib Date: 23-Oct-2023 04:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1658

First Level Reviewer: N9NA

Date: 07-Feb-2024 14:10:02

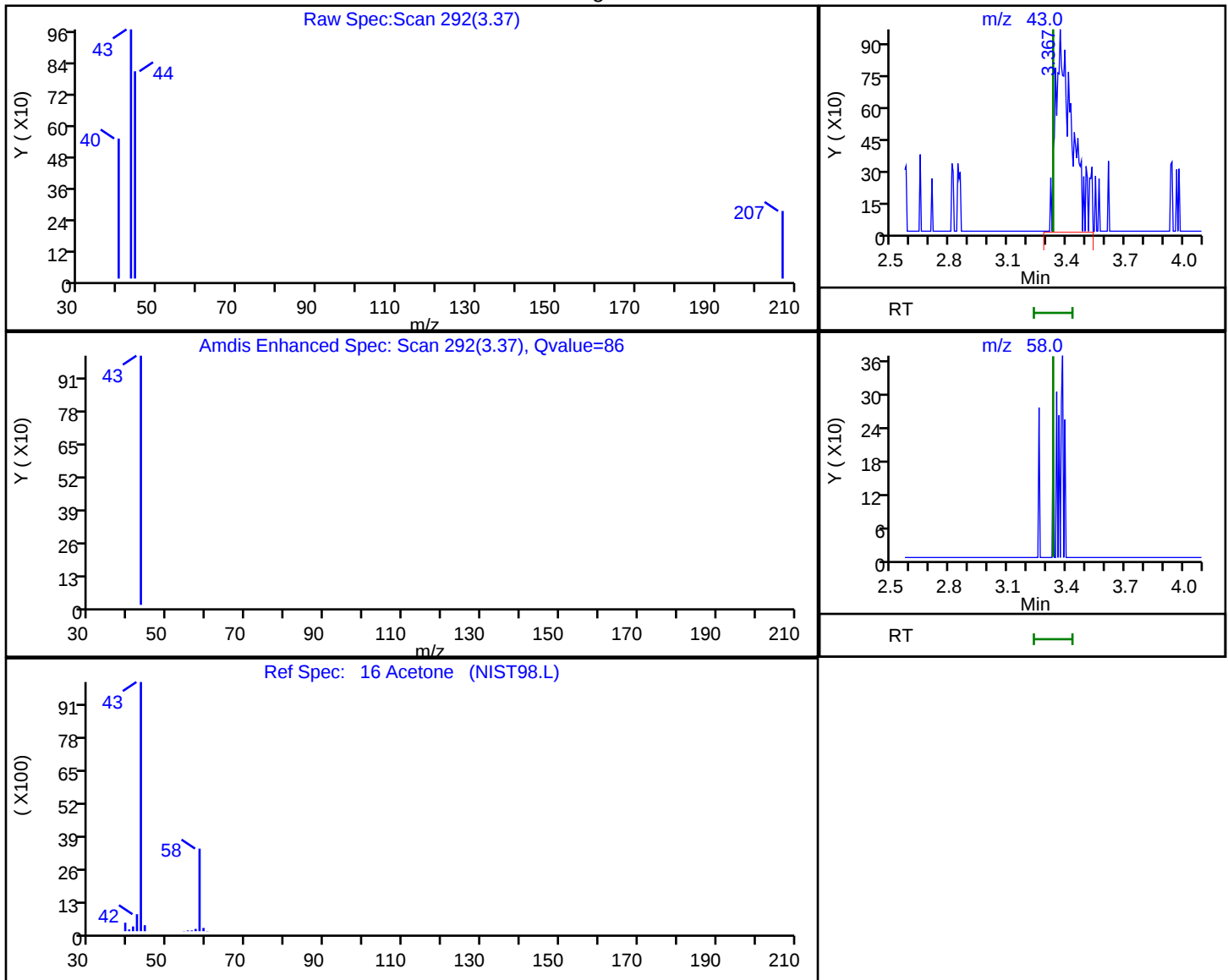
Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	9.31	93.05
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.49
\$ 78 Toluene-d8 (Surr)	10.0	10.2	102.00
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.55	95.52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X16.D
Injection Date: 07-Feb-2024 01:14:30 Instrument ID: 19930
Lims ID: 410-159022-A-1 Lab Sample ID: 410-159022-1
Client ID: HD-COD-SW-6-0/1-0
Operator ID: gaw91131 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

16 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.37	43.00	5907	1.031157
3.33	58.00	0	

Reviewer: N9NA, 07-Feb-2024 14:09:41 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

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

Lab Sample ID: 410-159022-2

Matrix: Water

Lab File ID: IF06X17.D

Analysis Method: 8260D

Date Collected: 01/29/2024 11:10

Sample wt/vol: 25 (mL)

Date Analyzed: 02/07/2024 01:35

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 470708

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	[^] c *+ cn	0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.1	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	[^] c cn	0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
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.: 410-159022-1

SDG No. :

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

Lab Sample ID: 410-159022-2

Matrix: Water

Lab File ID: IF06X17.D

Analysis Method: 8260D

Date Collected: 01/29/2024 11:10

Sample wt/vol: 25 (mL)

Date Analyzed: 02/07/2024 01:35

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 470708

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)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X17.D
 Lims ID: 410-159022-A-2
 Client ID: HD-COD-SW-7-0/1-0
 Sample Type: Client
 Inject. Date: 07-Feb-2024 01:35:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105725-018
 Operator ID: gaw91131 Instrument ID: 19930
 Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 07-Feb-2024 14:10:02 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1658

First Level Reviewer: N9NA

Date: 07-Feb-2024 14:10:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.014				ND	
5 Vinyl chloride	62		2.117				ND	
7 Bromomethane	94		2.446				ND	
8 Chloroethane	64		2.513				ND	
15 1,1-Dichloroethene	96		3.306				ND	
16 Acetone	43	3.361	3.330	0.031	97	6257	1.13	
20 Carbon disulfide	76		3.593				ND	7
25 Methylene Chloride	84		3.922				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.928	3.940	-0.012	27	122144	50.0	
29 Methyl tert-butyl ether	73		4.306				ND	
30 trans-1,2-Dichloroethene	96		4.318				ND	
32 1,1-Dichloroethane	63		4.976				ND	
38 2-Butanone (MEK)	43		5.787				ND	
39 cis-1,2-Dichloroethene	96		5.812				ND	
46 Chlorobromomethane	128		6.147				ND	
48 Chloroform	83	6.318	6.299	0.019	84	2302	0.0286	
\$ 49 Dibromofluoromethane (Surr)	113	6.519	6.519	0.000	94	380533	9.39	
50 1,1,1-Trichloroethane	97		6.525				ND	
54 Carbon tetrachloride	117		6.738				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.976	6.970	0.006	63	83243	10.5	
57 Benzene	78		7.000				ND	
58 1,2-Dichloroethane	62		7.080				ND	
* 61 Fluorobenzene (IS)	96	7.415	7.409	0.006	99	1538715	10.0	
64 Trichloroethene	95	7.915	7.897	0.018	95	3303	0.0688	
66 1,2-Dichloropropane	63		8.220				ND	
71 Dichlorobromomethane	83		8.573				ND	
76 cis-1,3-Dichloropropene	75		9.134				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.311				ND	
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	93	1535630	10.2	
79 Toluene	92	9.542	9.530	0.012	70	2853	0.0257	
97 trans-1,3-Dichloropropene	75		9.805				ND	
100 1,1,2-Trichloroethane	97		10.006				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.109	10.097	0.012	87	1630	0.0284	
103 2-Hexanone	43		10.231				ND	
105 Chlorodibromomethane	129		10.396				ND	
106 Ethylene Dibromide	107		10.506				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.945	10.945	0.000	86	1173923	10.0	
109 Chlorobenzene	112		10.969				ND	
111 1,1,1,2-Tetrachloroethane	131		11.054				ND	
112 Ethylbenzene	91		11.061				ND	
113 m-Xylene & p-Xylene	106		11.176				ND	7
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.506				ND	
115 Styrene	104		11.524				ND	
116 Bromoform	173		11.682				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.957	11.957	0.000	92	545163	9.61	
121 1,1,2,2-Tetrachloroethane	83		12.054				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.835	12.835	0.000	95	641665	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 07-Feb-2024 14:10:47

Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X17.D

Injection Date: 07-Feb-2024 01:35:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-159022-A-2

Lab Sample ID: 410-159022-2

Worklist Smp#: 18

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

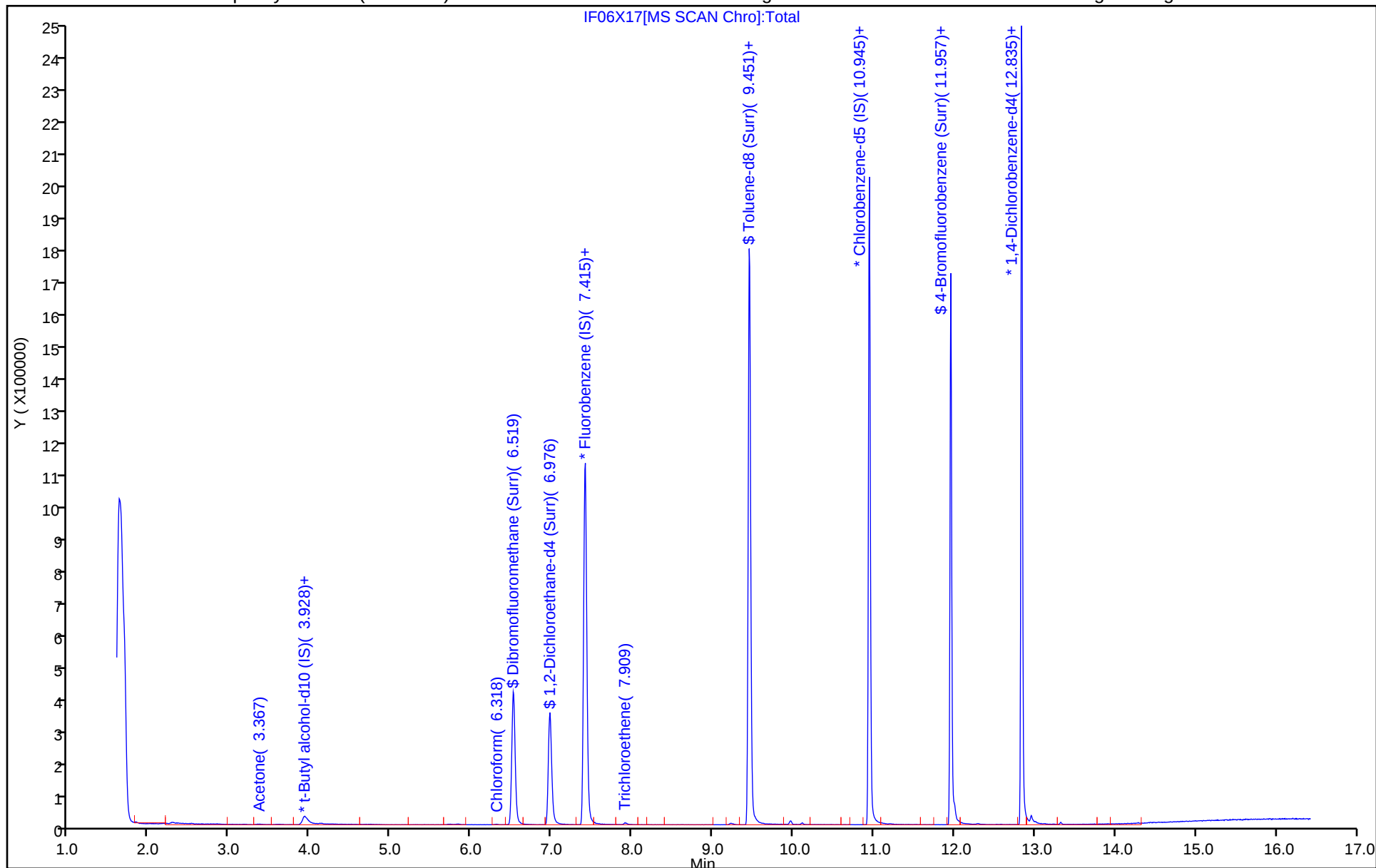
ALS Bottle#: 17

Method: 8260 25ml HP31

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\19930\20240206-105725.b\IF06X17.D
Lims ID: 410-159022-A-2
Client ID: HD-COD-SW-7-0/1-0
Sample Type: Client
Inject. Date: 07-Feb-2024 01:35:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0105725-018
Operator ID: gaw91131 Instrument ID: 19930
Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 07-Feb-2024 14:10:02 Calib Date: 23-Oct-2023 04:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1658

First Level Reviewer: N9NA

Date: 07-Feb-2024 14:10:47

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	9.39	93.88
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	104.65
\$ 78 Toluene-d8 (Surr)	10.0	10.2	102.43
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.61	96.10

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X17.D

Injection Date: 07-Feb-2024 01:35:30

Instrument ID: 19930

Lims ID: 410-159022-A-2

Lab Sample ID: 410-159022-2

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

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

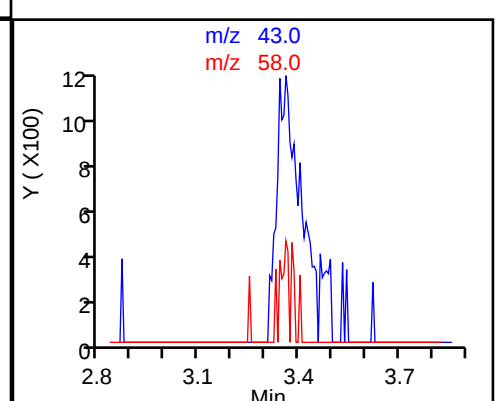
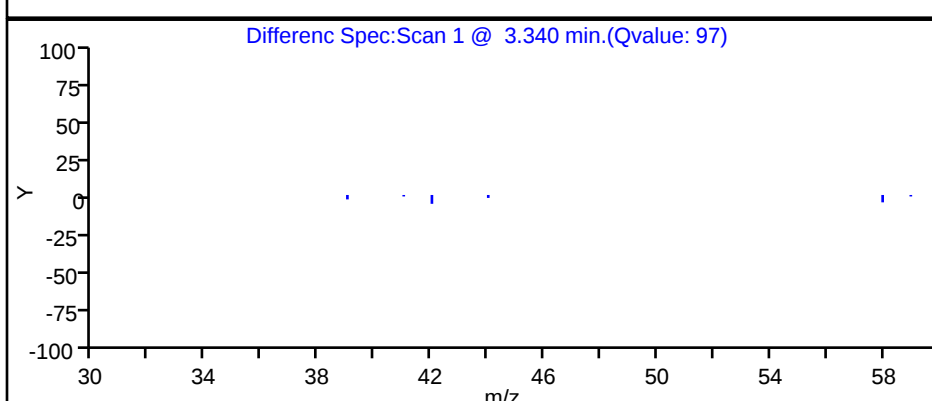
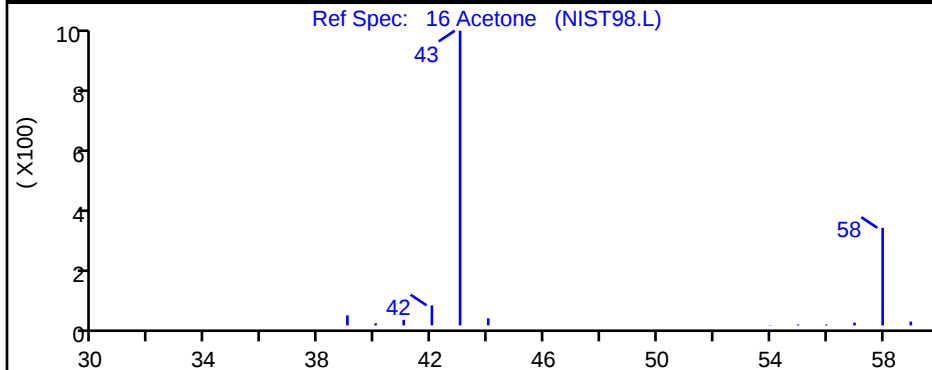
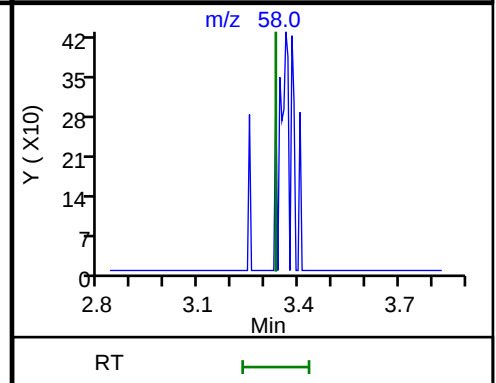
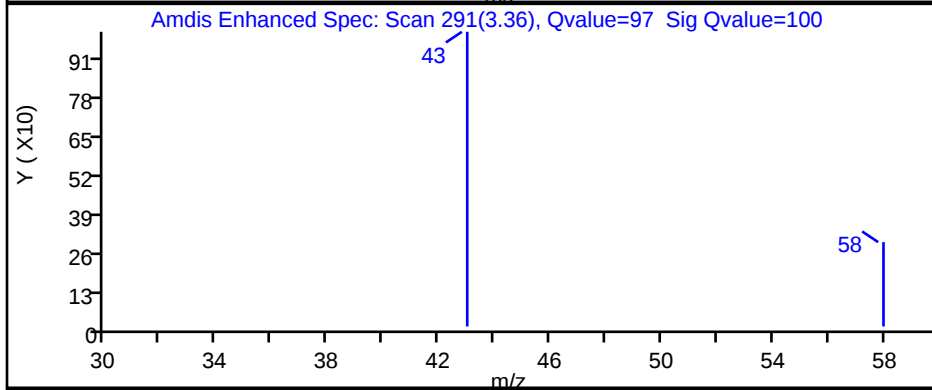
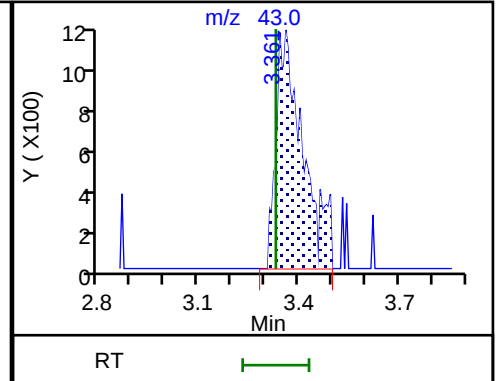
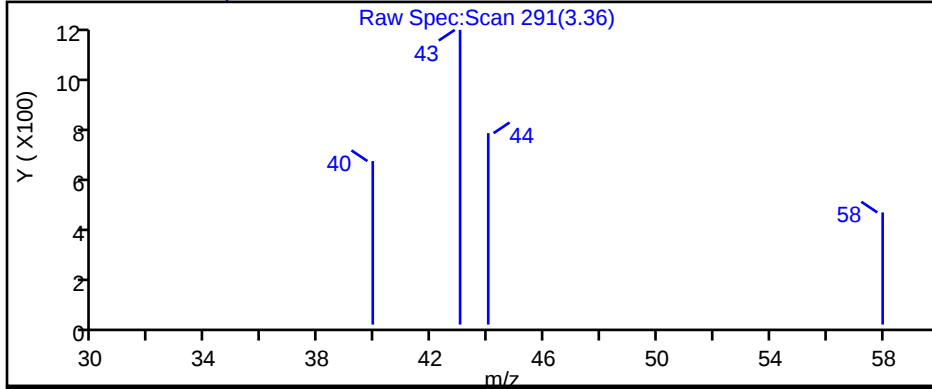
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

16 Acetone, CAS: 67-64-1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

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

Lab Sample ID: 410-159022-3

Matrix: Water

Lab File ID: IF06X18.D

Analysis Method: 8260D

Date Collected: 01/29/2024 09:20

Sample wt/vol: 25 (mL)

Date Analyzed: 02/07/2024 01:56

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.: 470708

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	[^] c *+ cn	0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.0	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND	[^] c cn	0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.20	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.: 410-159022-1

SDG No. :

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

Lab Sample ID: 410-159022-3

Matrix: Water

Lab File ID: IF06X18.D

Analysis Method: 8260D

Date Collected: 01/29/2024 09:20

Sample wt/vol: 25 (mL)

Date Analyzed: 02/07/2024 01:56

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.: 470708

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)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	103		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X18.D
 Lims ID: 410-159022-A-3
 Client ID: HD-COD-SW-8-0/1-0
 Sample Type: Client
 Inject. Date: 07-Feb-2024 01:56:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105725-019
 Operator ID: gaw91131 Instrument ID: 19930
 Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 07-Feb-2024 00:16:11 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1658

First Level Reviewer: N9NA

Date: 07-Feb-2024 14:38:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.014				ND	
5 Vinyl chloride	62		2.117				ND	
7 Bromomethane	94		2.446				ND	
8 Chloroethane	64		2.513				ND	
15 1,1-Dichloroethene	96		3.306				ND	
16 Acetone	43	3.355	3.330	0.025	98	11637	1.99	
20 Carbon disulfide	76	3.587	3.593	-0.006	41	3786	0.0375	
25 Methylene Chloride	84		3.922				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.928	3.940	-0.012	24	129160	50.0	
29 Methyl tert-butyl ether	73		4.306				ND	
30 trans-1,2-Dichloroethene	96		4.318				ND	
32 1,1-Dichloroethane	63		4.976				ND	
38 2-Butanone (MEK)	43		5.787				ND	
39 cis-1,2-Dichloroethene	96	5.824	5.812	0.012	75	2030	0.0430	
46 Chlorobromomethane	128		6.147				ND	
48 Chloroform	83		6.299				ND	7
\$ 49 Dibromofluoromethane (Surr)	113	6.519	6.519	0.000	94	385974	9.46	
50 1,1,1-Trichloroethane	97		6.525				ND	
54 Carbon tetrachloride	117		6.738				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.976	6.970	0.006	63	84630	10.6	
57 Benzene	78		7.000				ND	
58 1,2-Dichloroethane	62		7.080				ND	
* 61 Fluorobenzene (IS)	96	7.409	7.409	0.000	99	1548430	10.0	
64 Trichloroethene	95	7.915	7.897	0.018	93	3345	0.0692	
66 1,2-Dichloropropane	63		8.220				ND	
71 Dichlorobromomethane	83		8.573				ND	
76 cis-1,3-Dichloropropene	75		9.134				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.311				ND	
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	93	1552827	10.3	
79 Toluene	92		9.530				ND	7
97 trans-1,3-Dichloropropene	75		9.805				ND	
100 1,1,2-Trichloroethane	97		10.006				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.110	10.097	0.013	97	11417	0.1970	
103 2-Hexanone	43		10.231				ND	
105 Chlorodibromomethane	129		10.396				ND	
106 Ethylene Dibromide	107		10.506				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.945	10.945	0.000	86	1184169	10.0	
109 Chlorobenzene	112		10.969				ND	
111 1,1,1,2-Tetrachloroethane	131		11.054				ND	
112 Ethylbenzene	91		11.061				ND	
113 m-Xylene & p-Xylene	106		11.176				ND	7
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.506				ND	
115 Styrene	104		11.524				ND	
116 Bromoform	173		11.682				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.957	11.957	0.000	93	553752	9.68	
121 1,1,2,2-Tetrachloroethane	83		12.054				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.835	12.835	0.000	95	643903	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 07-Feb-2024 14:38:43

Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X18.D

Injection Date: 07-Feb-2024 01:56:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-159022-A-3

Lab Sample ID: 410-159022-3

Worklist Smp#: 19

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

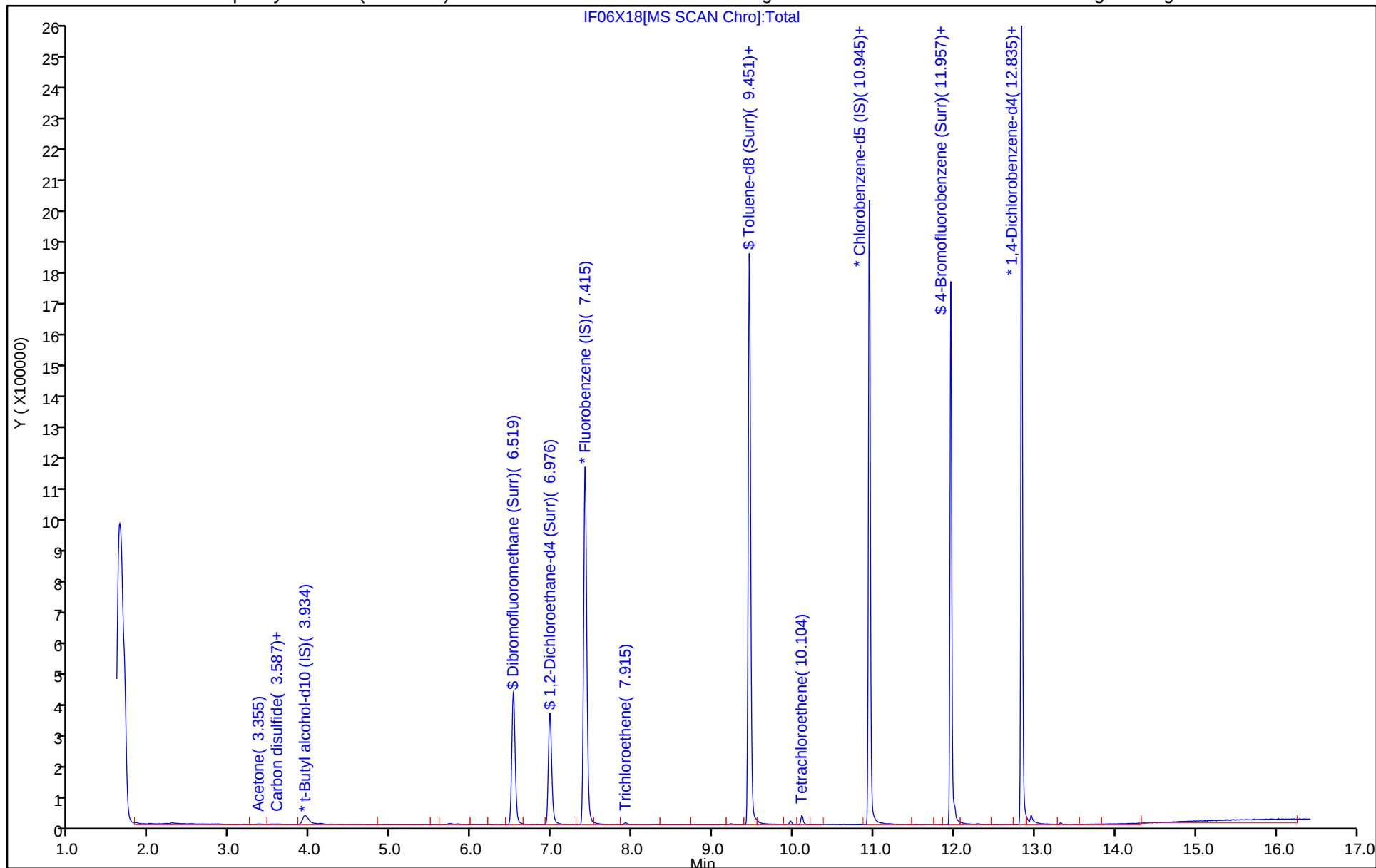
ALS Bottle#: 18

Method: 8260 25ml HP31

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\19930\20240206-105725.b\IF06X18.D
Lims ID: 410-159022-A-3
Client ID: HD-COD-SW-8-0/1-0
Sample Type: Client
Inject. Date: 07-Feb-2024 01:56:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0105725-019
Operator ID: gaw91131 Instrument ID: 19930
Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 07-Feb-2024 00:16:11 Calib Date: 23-Oct-2023 04:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1658

First Level Reviewer: N9NA

Date: 07-Feb-2024 14:38:43

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	9.46	94.62
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.73
\$ 78 Toluene-d8 (Surr)	10.0	10.3	102.68
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.68	96.77

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X18.D

Injection Date: 07-Feb-2024 01:56:30

Instrument ID: 19930

Lims ID: 410-159022-A-3

Lab Sample ID: 410-159022-3

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

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

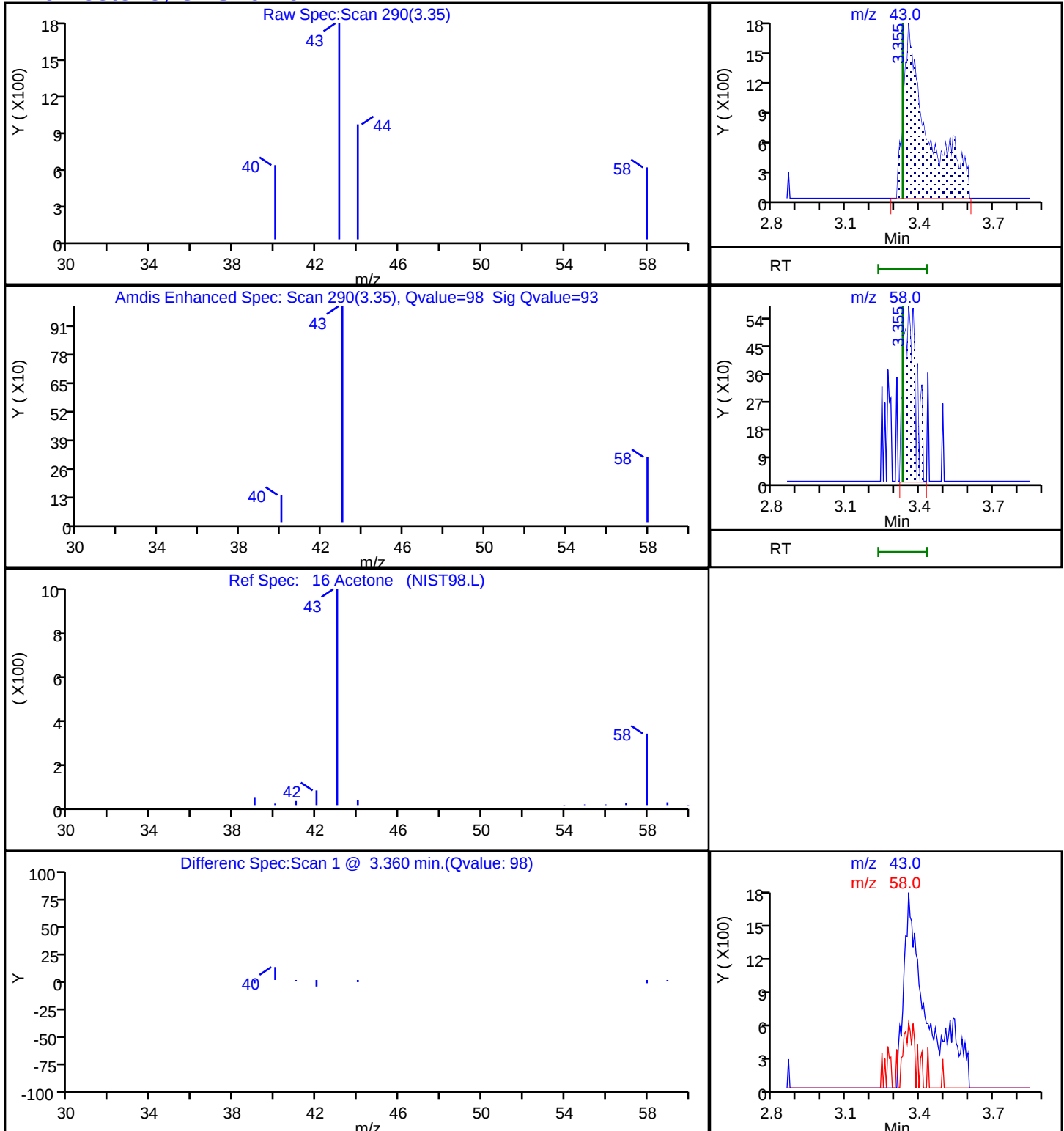
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

16 Acetone, CAS: 67-64-1

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X18.D

Injection Date: 07-Feb-2024 01:56:30

Instrument ID: 19930

Lims ID: 410-159022-A-3

Lab Sample ID: 410-159022-3

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

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

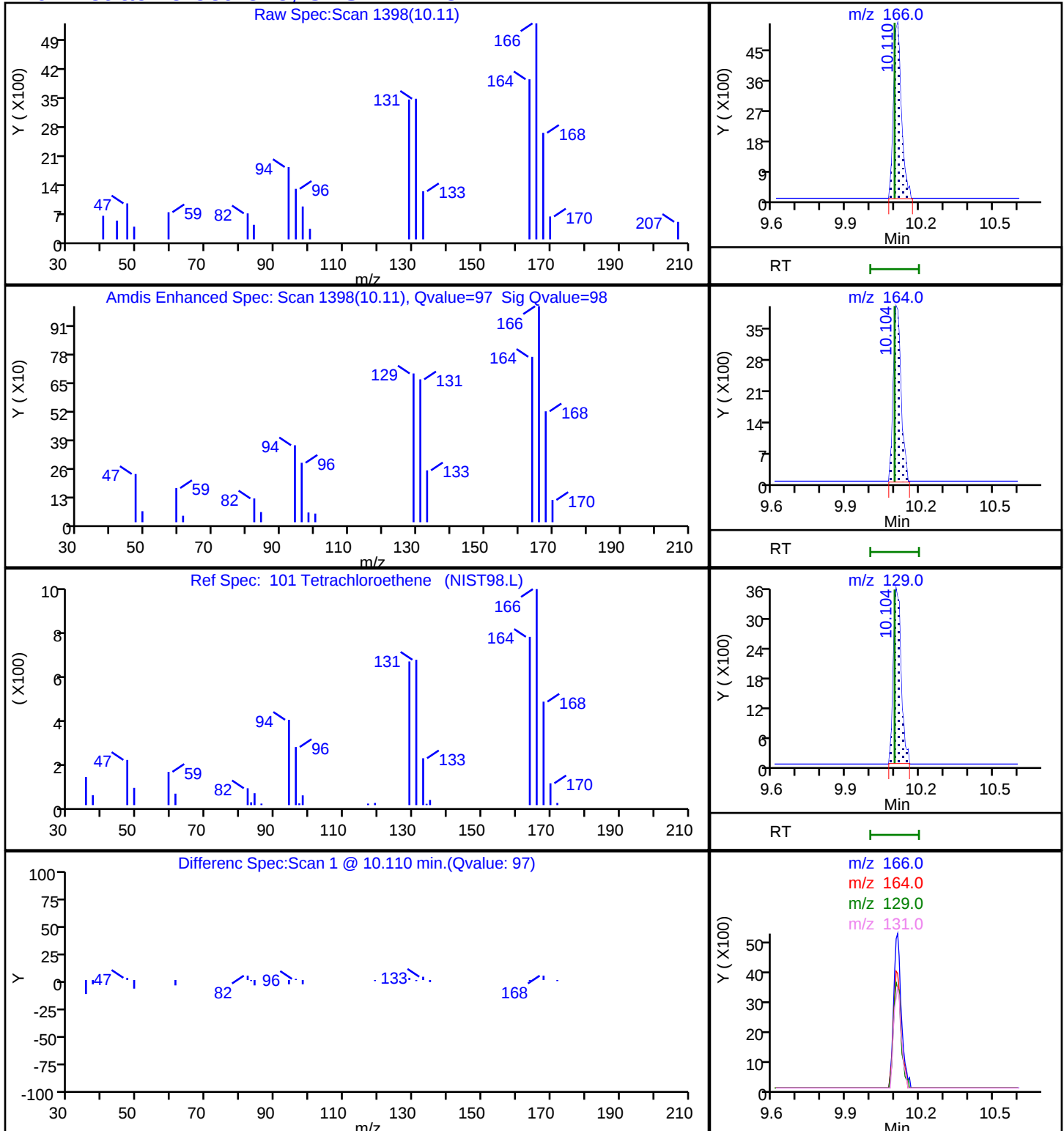
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

101 Tetrachloroethene, CAS: 127-18-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

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

Lab Sample ID: 410-159022-4

Matrix: Water

Lab File ID: IF06X19.D

Analysis Method: 8260D

Date Collected: 01/29/2024 12:24

Sample wt/vol: 25 (mL)

Date Analyzed: 02/07/2024 02:17

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 470708

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	[^] c *+ cn	0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.1	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	[^] c cn	0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-9-0/1-0 Lab Sample ID: 410-159022-4

Matrix: Water Lab File ID: IF06X19.D

Analysis Method: 8260D Date Collected: 01/29/2024 12:24

Sample wt/vol: 25 (mL) Date Analyzed: 02/07/2024 02:17

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

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

Analysis Batch No.: 470708 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)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		80-120
2037-26-5	Toluene-d8 (Surr)	103		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X19.D
 Lims ID: 410-159022-A-4
 Client ID: HD-COD-SW-9-0/1-0
 Sample Type: Client
 Inject. Date: 07-Feb-2024 02:17:30 ALS Bottle#: 19 Worklist Smp#: 20
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105725-020
 Operator ID: gaw91131 Instrument ID: 19930
 Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 07-Feb-2024 15:04:07 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1658

First Level Reviewer: N9NA

Date: 07-Feb-2024 15:04:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.014				ND	
5 Vinyl chloride	62		2.117				ND	
7 Bromomethane	94		2.446				ND	
8 Chloroethane	64		2.513				ND	
15 1,1-Dichloroethene	96		3.306				ND	
16 Acetone	43	3.361	3.330	0.031	66	5873	1.09	
20 Carbon disulfide	76		3.593				ND	7
25 Methylene Chloride	84		3.922				ND	7
* 26 t-Butyl alcohol-d10 (IS)	65	3.928	3.940	-0.012	34	118372	50.0	
29 Methyl tert-butyl ether	73		4.306				ND	
30 trans-1,2-Dichloroethene	96		4.318				ND	
32 1,1-Dichloroethane	63		4.976				ND	
38 2-Butanone (MEK)	43		5.787				ND	
39 cis-1,2-Dichloroethene	96	5.836	5.812	0.024	72	2352	0.0496	a
46 Chlorobromomethane	128		6.147				ND	
48 Chloroform	83	6.312	6.299	0.013	86	4970	0.0610	
\$ 49 Dibromofluoromethane (Surr)	113	6.519	6.519	0.000	94	379817	9.25	
50 1,1,1-Trichloroethane	97		6.525				ND	
54 Carbon tetrachloride	117		6.738				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.976	6.970	0.006	63	83397	10.4	
57 Benzene	78		7.000				ND	
58 1,2-Dichloroethane	62		7.080				ND	
* 61 Fluorobenzene (IS)	96	7.415	7.409	0.006	99	1558361	10.0	
64 Trichloroethene	95	7.909	7.897	0.012	95	3591	0.0739	
66 1,2-Dichloropropane	63		8.220				ND	
71 Dichlorobromomethane	83		8.573				ND	
76 cis-1,3-Dichloropropene	75		9.134				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.311				ND	
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	93	1552490	10.3	
79 Toluene	92	9.543	9.530	0.013	98	3011	0.0269	
97 trans-1,3-Dichloropropene	75		9.805				ND	
100 1,1,2-Trichloroethane	97		10.006				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.104	10.097	0.007	95	6665	0.1149	
103 2-Hexanone	43		10.231				ND	
105 Chlorodibromomethane	129		10.396				ND	
106 Ethylene Dibromide	107		10.506				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.945	10.945	0.000	86	1185006	10.0	
109 Chlorobenzene	112		10.969				ND	
111 1,1,1,2-Tetrachloroethane	131		11.054				ND	
112 Ethylbenzene	91		11.061				ND	
113 m-Xylene & p-Xylene	106		11.176				ND	
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.506				ND	
115 Styrene	104		11.524				ND	
116 Bromoform	173		11.682				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.957	11.957	0.000	92	547657	9.56	
121 1,1,2,2-Tetrachloroethane	83		12.054				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.835	12.835	0.000	95	643410	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 07-Feb-2024 15:04:07

Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X19.D

Injection Date: 07-Feb-2024 02:17:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-159022-A-4

Lab Sample ID: 410-159022-4

Worklist Smp#: 20

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

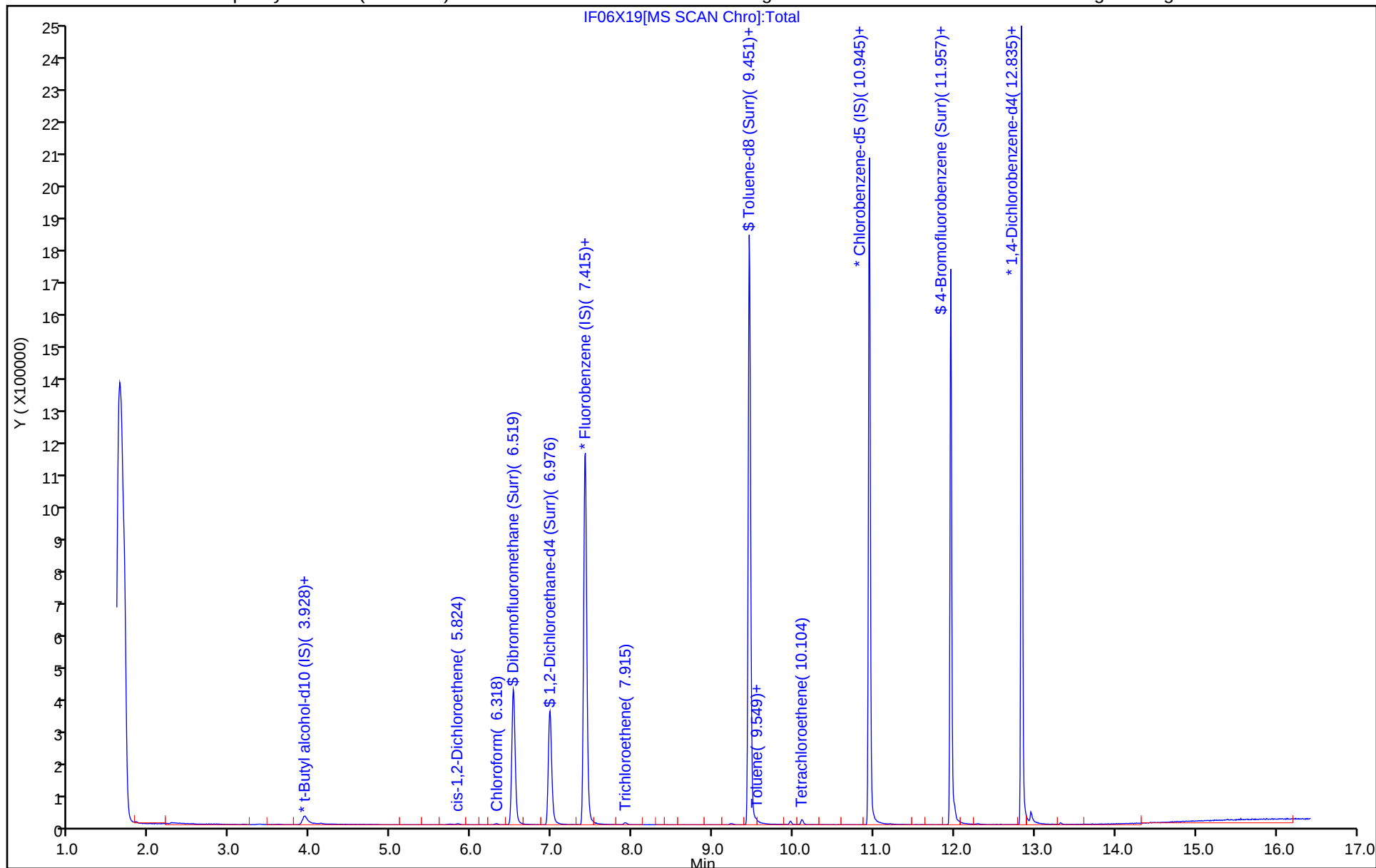
ALS Bottle#: 19

Method: 8260 25ml HP31

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\19930\20240206-105725.b\IF06X19.D
Lims ID: 410-159022-A-4
Client ID: HD-COD-SW-9-0/1-0
Sample Type: Client
Inject. Date: 07-Feb-2024 02:17:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0105725-020
Operator ID: gaw91131 Instrument ID: 19930
Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 07-Feb-2024 15:04:07 Calib Date: 23-Oct-2023 04:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1658

First Level Reviewer: N9NA

Date: 07-Feb-2024 15:04:07

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	9.25	92.52
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	103.52
\$ 78 Toluene-d8 (Surr)	10.0	10.3	102.58
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.56	95.64

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X19.D

Injection Date: 07-Feb-2024 02:17:30

Instrument ID: 19930

Lims ID: 410-159022-A-4

Lab Sample ID: 410-159022-4

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

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

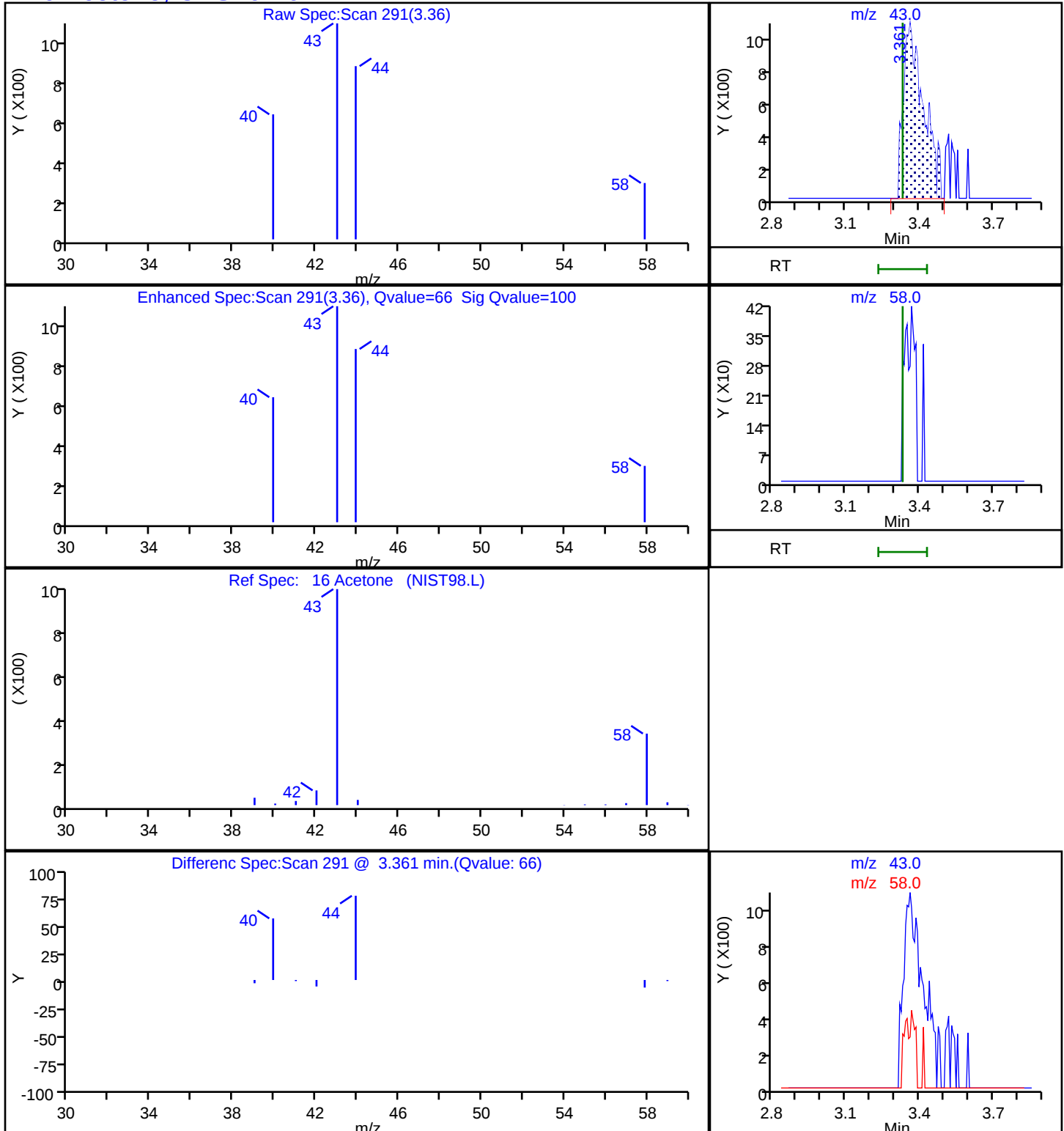
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

16 Acetone, CAS: 67-64-1

Eurofins Lancaster Laboratories Environment Testing, LLC

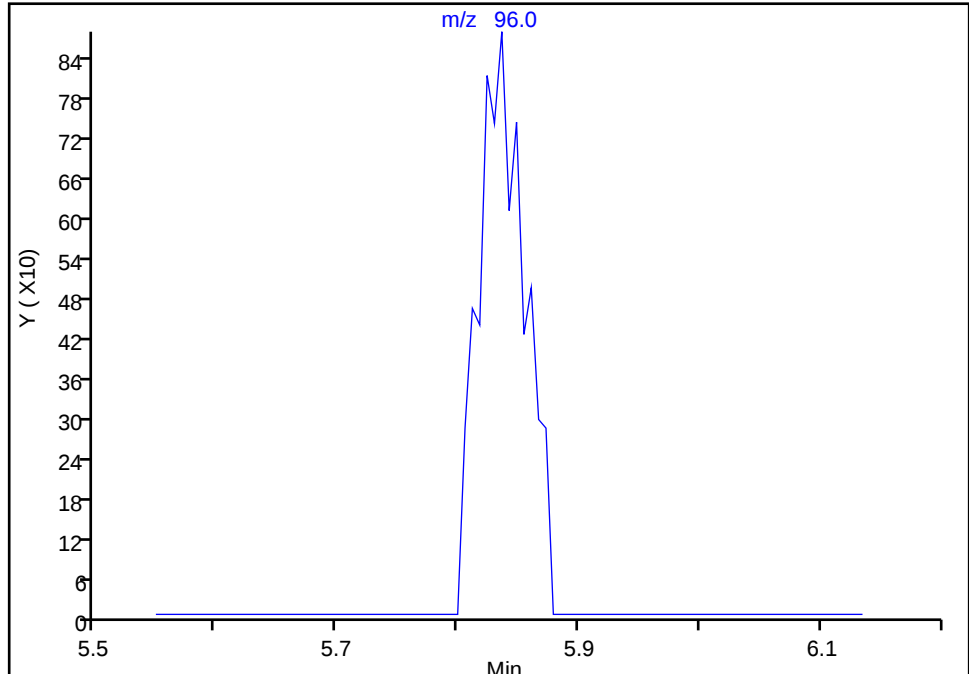
Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X19.D
Injection Date: 07-Feb-2024 02:17:30 Instrument ID: 19930
Lims ID: 410-159022-A-4 Lab Sample ID: 410-159022-4
Client ID: HD-COD-SW-9-0/1-0
Operator ID: gaw91131 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

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

Signal: 1

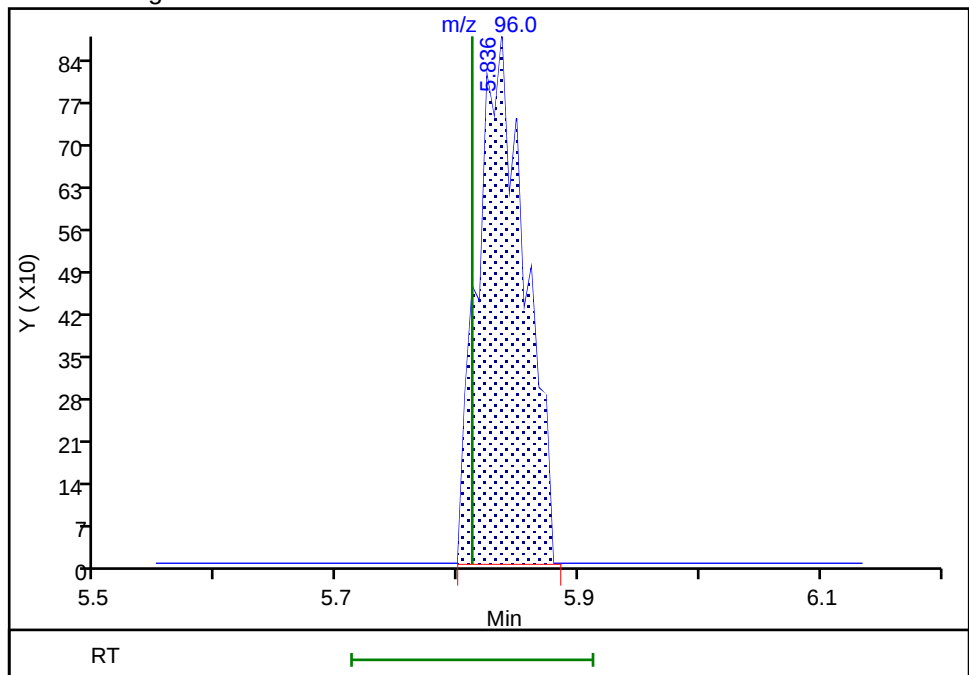
Not Detected
Expected RT: 5.81

Processing Integration Results



RT: 5.84
Area: 2352
Amount: 0.049559
Amount Units: ug/l

Manual Integration Results



Reviewer: N9NA, 07-Feb-2024 15:03:43 07:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

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

Lab Sample ID: 410-159022-5

Matrix: Water

Lab File ID: IF06X20.D

Analysis Method: 8260D

Date Collected: 01/29/2024 09:38

Sample wt/vol: 25 (mL)

Date Analyzed: 02/07/2024 02:38

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.: 470708

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	[^] c *+ cn	0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.8	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND	[^] c cn	0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.24	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 Job No.: 410-159022-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-13-0/1-0 Lab Sample ID: 410-159022-5

Matrix: Water Lab File ID: IF06X20.D

Analysis Method: 8260D Date Collected: 01/29/2024 09:38

Sample wt/vol: 25 (mL) Date Analyzed: 02/07/2024 02:38

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.: 470708 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)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	92		80-120
2037-26-5	Toluene-d8 (Surr)	103		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X20.D
 Lims ID: 410-159022-A-5
 Client ID: HD-COD-SW-13-0/1-0
 Sample Type: Client
 Inject. Date: 07-Feb-2024 02:38:30 ALS Bottle#: 20 Worklist Smp#: 21
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105725-021
 Operator ID: gaw91131 Instrument ID: 19930
 Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 07-Feb-2024 15:04:07 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1658

First Level Reviewer: N9NA

Date: 07-Feb-2024 15:04:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.014				ND	
5 Vinyl chloride	62		2.117				ND	
7 Bromomethane	94		2.446				ND	
8 Chloroethane	64		2.513				ND	
15 1,1-Dichloroethene	96		3.306				ND	
16 Acetone	43	3.373	3.330	0.043	99	10385	1.78	
20 Carbon disulfide	76	3.587	3.593	-0.006	94	3872	0.0383	
25 Methylene Chloride	84		3.922				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.922	3.940	-0.018	27	128537	50.0	
29 Methyl tert-butyl ether	73		4.306				ND	
30 trans-1,2-Dichloroethene	96		4.318				ND	
32 1,1-Dichloroethane	63		4.976				ND	
38 2-Butanone (MEK)	43		5.787				ND	
39 cis-1,2-Dichloroethene	96		5.812				ND	
46 Chlorobromomethane	128		6.147				ND	
48 Chloroform	83		6.299				ND	7
\$ 49 Dibromofluoromethane (Surr)	113	6.519	6.519	0.000	94	377930	9.24	
50 1,1,1-Trichloroethane	97		6.525				ND	7
54 Carbon tetrachloride	117		6.738				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.976	6.970	0.006	63	83612	10.4	
57 Benzene	78		7.000				ND	
58 1,2-Dichloroethane	62		7.080				ND	
* 61 Fluorobenzene (IS)	96	7.415	7.409	0.006	99	1552535	10.0	
64 Trichloroethene	95	7.915	7.897	0.018	95	3542	0.0731	
66 1,2-Dichloropropane	63		8.220				ND	
71 Dichlorobromomethane	83		8.573				ND	
76 cis-1,3-Dichloropropene	75		9.134				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.311				ND	7
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	93	1538168	10.3	
79 Toluene	92	9.543	9.530	0.013	98	4554	0.0413	
97 trans-1,3-Dichloropropene	75		9.805				ND	
100 1,1,2-Trichloroethane	97		10.006				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.104	10.097	0.007	96	13527	0.2365	
103 2-Hexanone	43		10.231				ND	
105 Chlorodibromomethane	129		10.396				ND	
106 Ethylene Dibromide	107		10.506				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.945	10.945	0.000	86	1168344	10.0	
109 Chlorobenzene	112		10.969				ND	
111 1,1,1,2-Tetrachloroethane	131		11.054				ND	
112 Ethylbenzene	91		11.061				ND	
113 m-Xylene & p-Xylene	106		11.176				ND	7
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.506				ND	
115 Styrene	104		11.524				ND	
116 Bromoform	173		11.682				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.957	11.957	0.000	92	549365	9.73	
121 1,1,2,2-Tetrachloroethane	83		12.054				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.835	12.835	0.000	94	629535	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 07-Feb-2024 15:04:47

Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X20.D

Injection Date: 07-Feb-2024 02:38:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-159022-A-5

Lab Sample ID: 410-159022-5

Worklist Smp#: 21

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

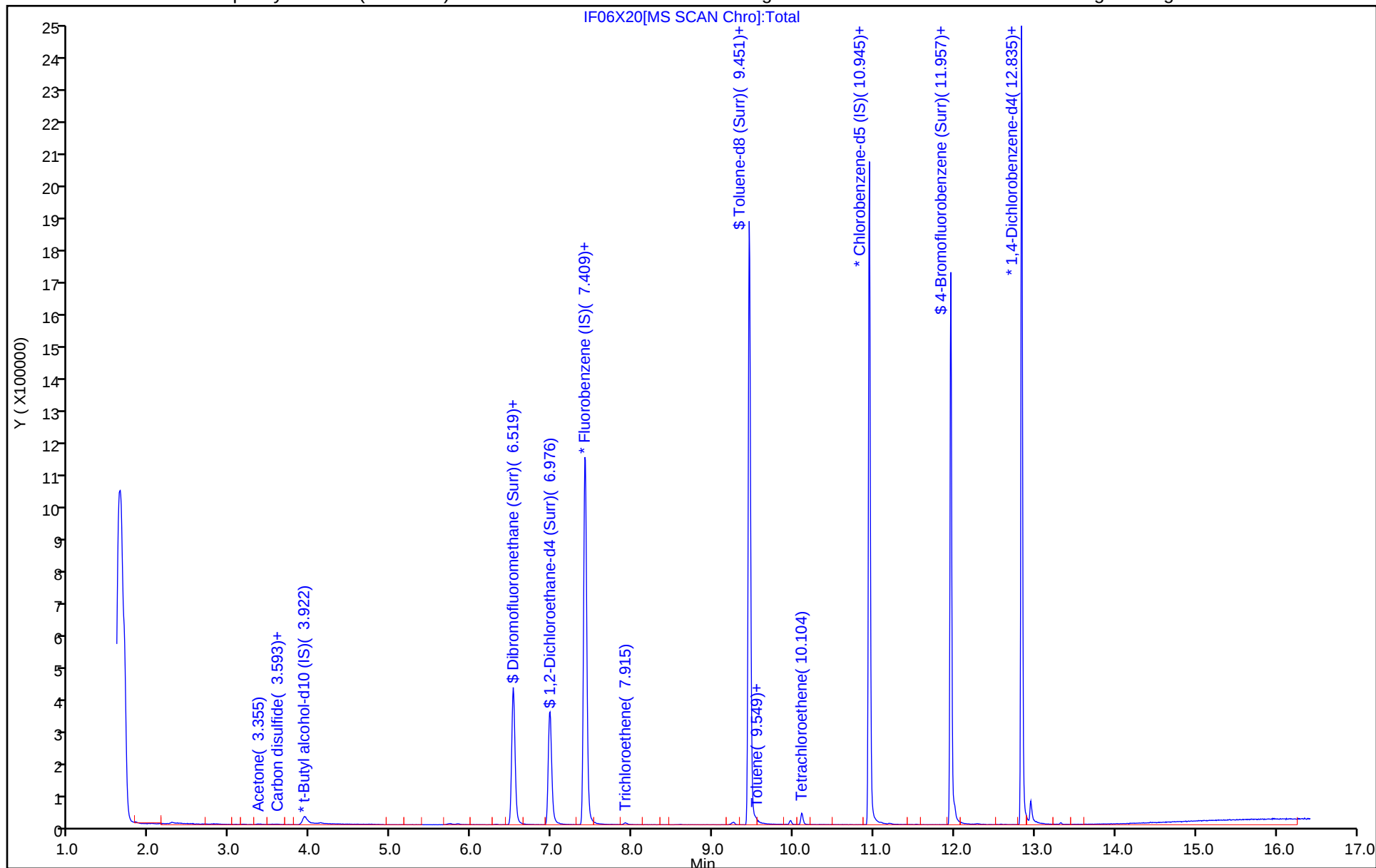
ALS Bottle#: 20

Method: 8260 25ml HP31

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\19930\20240206-105725.b\IF06X20.D
Lims ID: 410-159022-A-5
Client ID: HD-COD-SW-13-0/1-0
Sample Type: Client
Inject. Date: 07-Feb-2024 02:38:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0105725-021
Operator ID: gaw91131 Instrument ID: 19930
Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 07-Feb-2024 15:04:07 Calib Date: 23-Oct-2023 04:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1658

First Level Reviewer: N9NA

Date: 07-Feb-2024 15:04:47

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	9.24	92.40
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.18
\$ 78 Toluene-d8 (Surr)	10.0	10.3	103.09
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.73	97.30

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X20.D

Injection Date: 07-Feb-2024 02:38:30

Instrument ID: 19930

Lims ID: 410-159022-A-5

Lab Sample ID: 410-159022-5

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

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

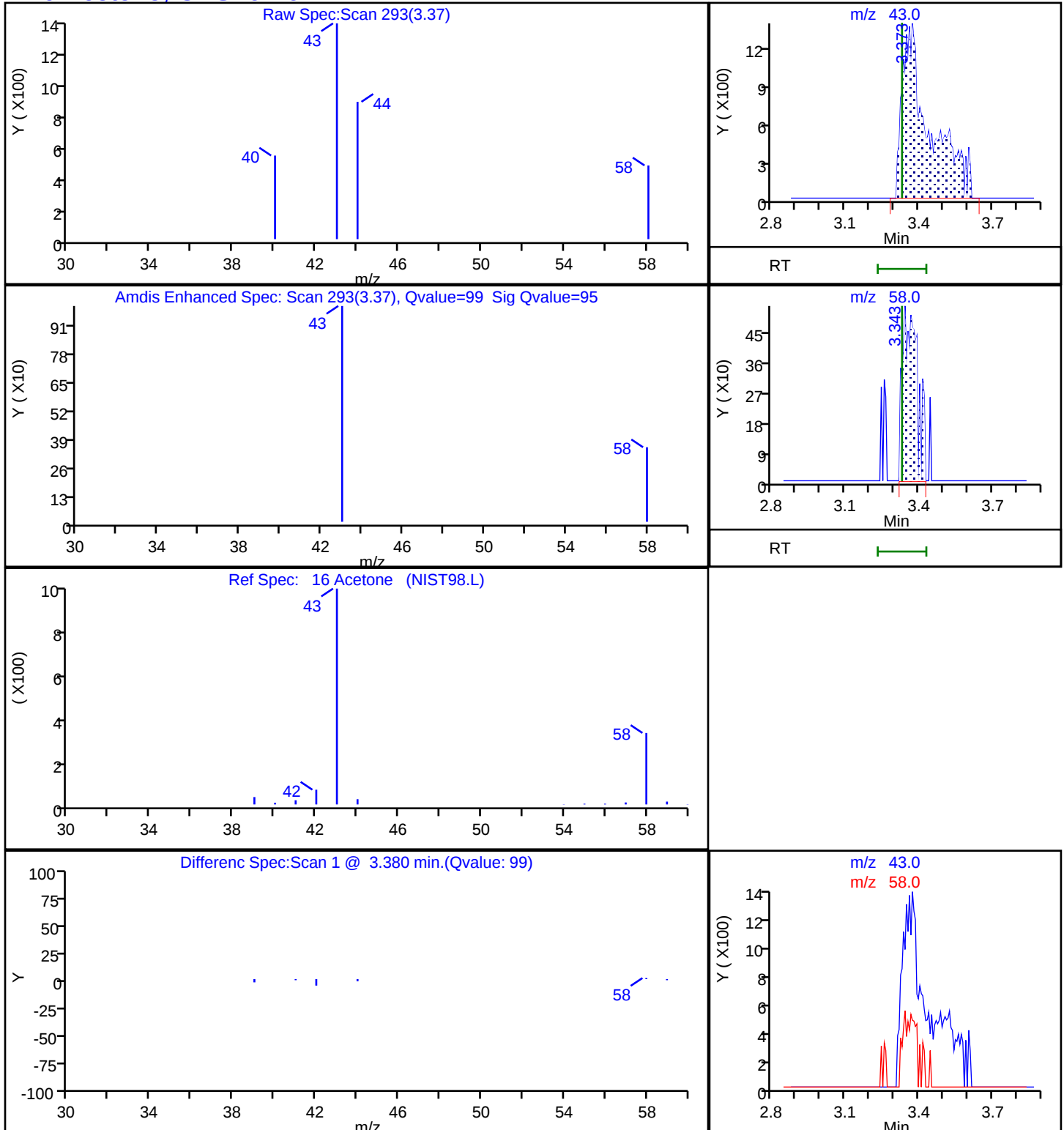
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

16 Acetone, CAS: 67-64-1

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X20.D

Injection Date: 07-Feb-2024 02:38:30

Instrument ID: 19930

Lims ID: 410-159022-A-5

Lab Sample ID: 410-159022-5

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

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

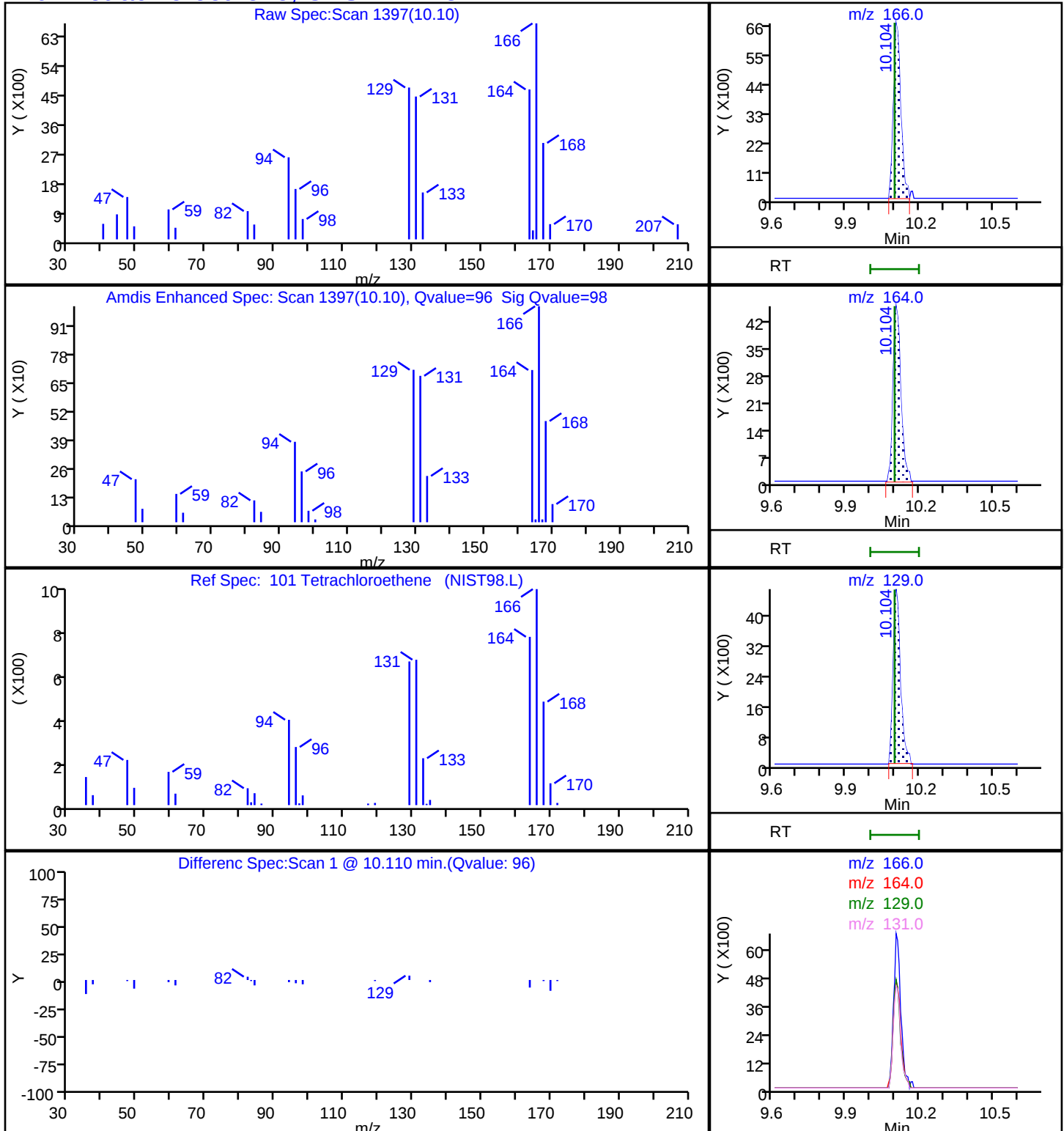
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

101 Tetrachloroethene, CAS: 127-18-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

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

Lab Sample ID: 410-159022-6

Matrix: Water

Lab File ID: IF06X12.D

Analysis Method: 8260D

Date Collected: 01/29/2024 11:33

Sample wt/vol: 25 (mL)

Date Analyzed: 02/06/2024 23:50

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 470708

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	0.090	J	0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND	^c FH *+ cn	0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND	FH	0.50	0.080
75-34-3	1,1-Dichloroethane	ND	FH	0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND	FH	0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND	FH	0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
71-43-2	Benzene	ND	FH	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	^c cn	0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.61		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND	FH	0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND	FH	0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	1.9		0.50	0.20
108-88-3	Toluene	ND	FH	0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-15-0/1-0 Lab Sample ID: 410-159022-6

Matrix: Water Lab File ID: IF06X12.D

Analysis Method: 8260D Date Collected: 01/29/2024 11:33

Sample wt/vol: 25 (mL) Date Analyzed: 02/06/2024 23:50

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

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

Analysis Batch No.: 470708 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND	FH	0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.58		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)	95		80-120
2037-26-5	Toluene-d8 (Surr)	103		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X12.D
 Lims ID: 410-159022-A-6
 Client ID: HD-COD-SW-15-0/1-0
 Sample Type: Client
 Inject. Date: 06-Feb-2024 23:50:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105725-013
 Operator ID: gaw91131 Instrument ID: 19930
 Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 07-Feb-2024 13:01:18 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1658

First Level Reviewer: N9NA

Date: 07-Feb-2024 13:03:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.831				ND	
2 Chlorodifluoromethane	51		1.843				ND	
3 Dimethyl ether	45		1.904				ND	
4 Chloromethane	50		2.014				ND	
5 Vinyl chloride	62		2.117				ND	
6 Butadiene	39		2.135				ND	
7 Bromomethane	94		2.446				ND	
8 Chloroethane	64		2.513				ND	
9 Dichlorofluoromethane	67		2.739				ND	
10 Trichlorofluoromethane	101		2.800				ND	
11 Ethyl ether	59		3.019				ND	
13 1,2-Dichloro-1,1,2-trifluoroetha	67		3.111				ND	
14 Acrolein	56		3.172				ND	7
T 12 Ethanol TIC	45		3.288				ND	7
15 1,1-Dichloroethene	96	3.312	3.306	0.006	91	2720	0.0757	
16 Acetone	43	3.367	3.330	0.037	97	4712	0.7889	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.355				ND	
18 Iodomethane	142		3.489				ND	
19 Ethyl bromide	108		3.513				ND	
20 Carbon disulfide	76	3.599	3.593	0.006	94	4265	0.0420	
21 Acetonitrile	41		3.684				ND	
23 Methyl acetate	43		3.727				ND	
24 3-Chloro-1-propene	41		3.745				ND	
25 Methylene Chloride	84		3.922				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.940	3.940	0.000	28	131640	50.0	
T 22 Acetonitrile TIC	41		4.001				ND	
27 2-Methyl-2-propanol	59		4.038				ND	
28 Acrylonitrile	53		4.239				ND	
29 Methyl tert-butyl ether	73		4.306				ND	7
30 trans-1,2-Dichloroethene	96		4.318				ND	
31 Hexane	57		4.745				ND	
33 Vinyl acetate	43		4.946				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
32 1,1-Dichloroethane	63		4.976				ND	
35 Isopropyl ether	45		5.043				ND	
36 2-Chloro-1,3-butadiene	53		5.086				ND	
T 34 Vinyl acetate (TIC)	43		5.336				ND	
37 Tert-butyl ethyl ether	59		5.574				ND	7
38 2-Butanone (MEK)	43		5.787				ND	
39 cis-1,2-Dichloroethene	96	5.830	5.812	0.018	80	28689	0.6051	
40 2,2-Dichloropropane	77		5.824				ND	
42 Ethyl acetate	43		5.836				ND	
43 Propionitrile	54		5.866				ND	
45 Methacrylonitrile	67		6.086				ND	
46 Chlorobromomethane	128		6.147				ND	
S 41 1,2-Dichloroethene, Total	100				0		0.6051	
47 Tetrahydrofuran	71		6.159				ND	
44 Methyl acrylate	55		6.220				ND	
48 Chloroform	83	6.305	6.299	0.006	89	7086	0.0871	
\$ 49 Dibromofluoromethane (Surr)	113	6.525	6.519	0.006	94	391225	9.54	
50 1,1,1-Trichloroethane	97	6.531	6.525	0.006	36	6789	0.0896	
51 Cyclohexane	56		6.629				ND	
54 Carbon tetrachloride	117		6.738				ND	
53 1,1-Dichloropropene	75		6.744				ND	
55 Isobutyl alcohol	41		6.903				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.976	6.970	0.006	63	84993	10.6	
57 Benzene	78		7.000				ND	
52 1-Chlorobutane	56		7.019				ND	
59 Isopropyl acetate	43		7.074				ND	
58 1,2-Dichloroethane	62		7.080				ND	
60 Tert-amyl methyl ether	73		7.202				ND	
* 61 Fluorobenzene (IS)	96	7.415	7.409	0.006	99	1556884	10.0	
62 n-Heptane	43		7.427				ND	
63 n-Butanol	56		7.793				ND	
64 Trichloroethene	95	7.915	7.897	0.018	96	28099	0.5784	
65 Methylcyclohexane	83		8.201				ND	
66 1,2-Dichloropropane	63		8.220				ND	
67 Methyl methacrylate	69		8.317				ND	
68 1,4-Dioxane	88		8.317				ND	
69 Dibromomethane	93		8.336				ND	
70 n-Propyl acetate	43		8.390				ND	
71 Dichlorobromomethane	83		8.573				ND	
72 2-Nitropropane	41		8.835				ND	
73 2-Chloroethyl vinyl ether	63		8.939				ND	
75 1-Bromo-2-chloroethane	63		8.963				ND	
76 cis-1,3-Dichloropropene	75		9.134				ND	
74 Chloroacetonitrile	75		9.226				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.311				ND	
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	93	1561345	10.3	
79 Toluene	92		9.530				ND	
97 trans-1,3-Dichloropropene	75		9.805				ND	
99 Ethyl methacrylate	69		9.872				ND	
T 96 Octamethylcyclotetrasiloxane TIC	78	12.005	10.000	2.005	72	16298	0.1047	
T 95 Decamethylcyclopentasiloxane TIC	78	9.451	10.000	-0.549	1	630	0.004047	
T 94 Hexachloroethane TIC	117	10.091	10.000	0.091	4	760	0.004882	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
T 88 Isopropyl alcohol TIC	45	9.445	10.000	-0.555	23	765	0.004914	
T 92 2-Bromo-3-chloropropene TIC	75	10.945	10.000	0.945	4	17869	0.1148	
T 90 Vinyl bromide TIC	106	11.201	10.000	1.201	1	327	0.002100	
T 87 2-Chloroethanol TIC	44	9.957	10.000	-0.043	1	334	0.002145	
T 93 Nitrobenzene TIC	77	9.451	10.000	-0.549	10	906	0.005819	
T 89 Ethylene oxide TIC	43		10.000				ND	
T 80 Chloroacetaldehyde TIC	50		10.000				ND	
T 82 Epichlorohydrin TIC	57	9.451	10.000	-0.549	29	1047	0.006725	
T 86 2-Bromoethanol TIC	45		10.000				ND	
T 224 Methyl acrylate TIC	55	9.451	10.000	-0.549	4	5280	0.0339	
T 84 3-Chloro-1,2-propanediol TIC	43	9.457	10.000	-0.543	19	6089	0.0391	
T 85 2,3-Dibromo-1-propanol TIC	57	9.451	10.000	-0.549	1	1047	0.006725	
T 83 2,3-Dibromopropene TIC	119	10.097	10.000	0.097	1	726	0.004663	
T 81 Monochloroacetic acid TIC	50	9.543	10.000	-0.457	1	191	0.001227	
T 91 Epibromohydrin TIC	57		10.000				ND	
100 1,1,2-Trichloroethane	97		10.006				ND	
S 98 1,3-Dichloropropene, Total	100		10.060				ND	7
101 Tetrachloroethene	166	10.103	10.097	0.006	98	112381	1.93	
102 1,3-Dichloropropane	76		10.171				ND	
103 2-Hexanone	43		10.231				ND	
104 n-Butyl acetate	43		10.372				ND	
105 Chlorodibromomethane	129		10.396				ND	
106 Ethylene Dibromide	107		10.506				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.945	10.945	0.000	86	1189811	10.0	
108 1-Chlorohexane	91		10.957				ND	7
109 Chlorobenzene	112		10.969				ND	
111 1,1,1,2-Tetrachloroethane	131		11.054				ND	
112 Ethylbenzene	91		11.061				ND	
113 m-Xylene & p-Xylene	106		11.176				ND	
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.506				ND	
115 Styrene	104		11.524				ND	
116 Bromoform	173		11.682				ND	
117 Isopropylbenzene	105		11.810				ND	
118 cis-1,4-Dichloro-2-butene	88		11.878				ND	
119 Cyclohexanone	55		11.908				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.957	11.957	0.000	92	557366	9.69	
121 1,1,2,2-Tetrachloroethane	83		12.054				ND	
122 Bromobenzene	156		12.066				ND	
123 trans-1,4-Dichloro-2-butene	53		12.079				ND	
124 1,2,3-Trichloropropane	110		12.103				ND	
125 N-Propylbenzene	91		12.140				ND	
126 2-Chlorotoluene	126		12.213				ND	
127 1,3,5-Trimethylbenzene	105		12.280				ND	
128 4-Chlorotoluene	126		12.310				ND	
129 tert-Butylbenzene	134		12.518				ND	
130 Pentachloroethane	167		12.548				ND	
131 1,2,4-Trimethylbenzene	105		12.560				ND	
132 sec-Butylbenzene	105		12.682				ND	
133 1,3-Dichlorobenzene	146		12.780				ND	
134 4-Isopropyltoluene	119		12.792				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.841	12.835	0.006	95	649841	10.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
136 1,4-Dichlorobenzene	146		12.853				ND	
137 1,2,3-Trimethylbenzene	120		12.865				ND	7
138 Benzyl chloride	126		12.932				ND	
139 n-Butylbenzene	92		13.085				ND	
140 1,2-Dichlorobenzene	146		13.109				ND	
141 Hexachloroethane	117		13.542				ND	
142 1,2-Dibromo-3-Chloropropane	155		13.652				ND	
143 1,3,5-Trichlorobenzene	180		13.780				ND	
144 1,2,4-Trichlorobenzene	180		14.200				ND	
145 Hexachlorobutadiene	225		14.286				ND	
146 Naphthalene	128		14.377				ND	
147 1,2,3-Trichlorobenzene	180		14.523				ND	
148 Dodecane	57		0.000				ND	
164 1-Chloropropane	1		0.000				ND	
219 1,1,1-Trifluoro-2,2-dichloroethane	1		0.000				ND	
220 1,2-Dichlorofluoroethane TIC	1		0.000				ND	
221 1,1,1-Trichloro-2,2,2-trifluoroethane	1		0.000				ND	
163 Propene oxide	1		0.000				ND	
162 Chlorotrifluoroethene	1		0.000				ND	
222 Vinyl Fluoride TIC	1		0.000				ND	
225 1,1-Dichloro-1-fluoroethane TIC	1		0.000				ND	
218 Fluoromethane TIC	1		0.000				ND	
213 Chlorofluoromethane TIC	1		0.000				ND	
214 Dichloro-1,1,2,2-tetrafluoroethane	1		0.000				ND	
215 1-Chloro-1,1-difluoroethane TIC	1		0.000				ND	
216 Ethyl ether TIC	1		0.000				ND	
217 Freon 115 TIC	1		0.000				ND	
165 Isopropyl alcohol	45		0.000				ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	
149 2-Chloro-1,1,1-Trifluoroethane	1		0.000				ND	
161 Pentane	43		0.000				ND	
223 1,1,2-Trifluoroethane TIC	1		0.000				ND	
160 2-Bromo-1-chloropropane	1		0.000				ND	
159 tert-Butyl Formate	1		0.000				ND	
158 Methylal	1		0.000				ND	
157 t-Amyl alcohol	1		0.000				ND	
156 p-Diethylbenzene	1		0.000				ND	
155 2-Methylnaphthalene	142		0.000				ND	
154 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
153 1-Bromo-3-Chloropropane	1		0.000				ND	
152 n-Decane	57		0.000				ND	
151 1,1-Dichloroacetone	1		0.000				ND	
166 Ethanol	45		3.269				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 07-Feb-2024 13:03:49

Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X12.D

Injection Date: 06-Feb-2024 23:50:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-159022-A-6

Lab Sample ID: 410-159022-6

Worklist Smp#: 13

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

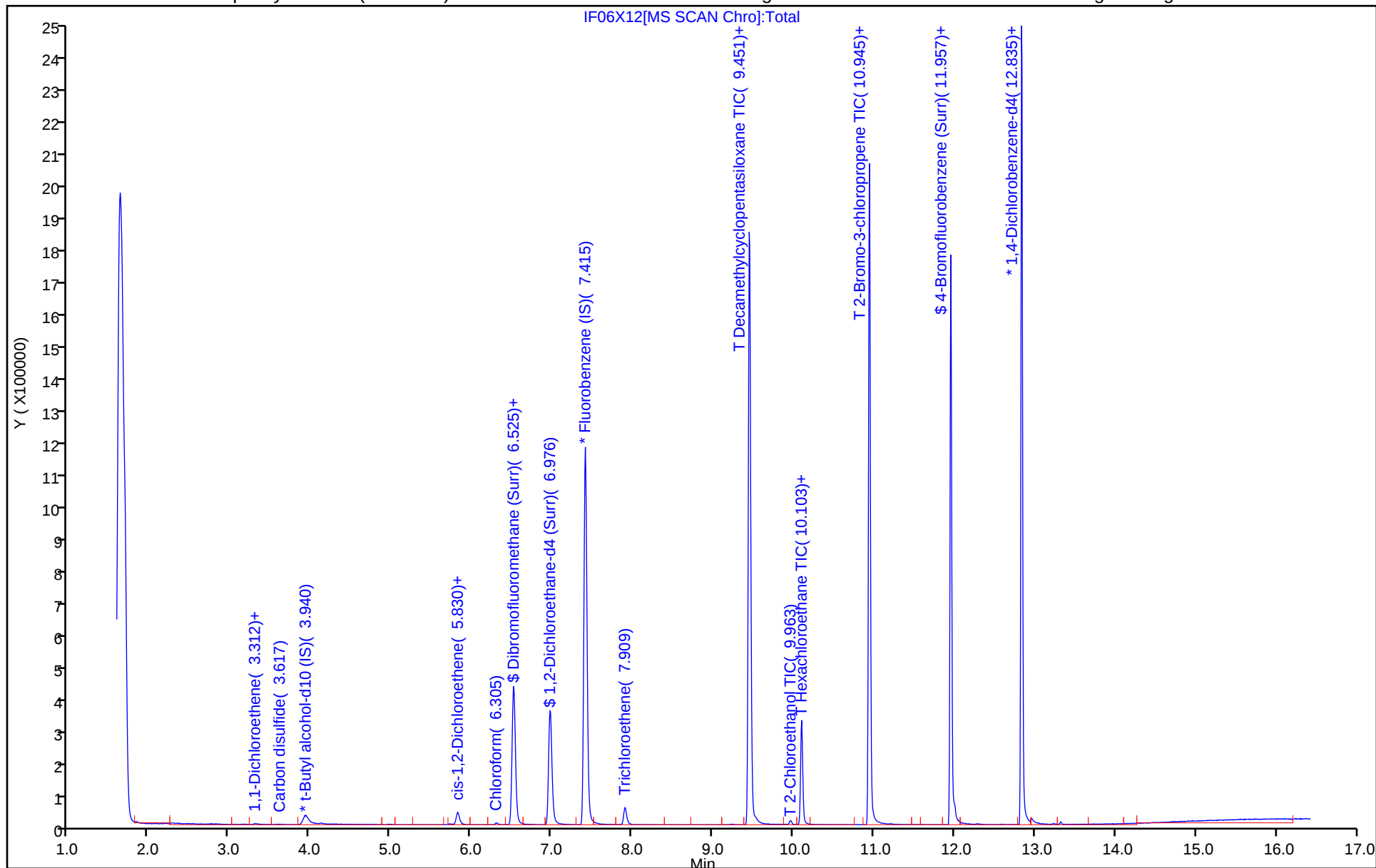
ALS Bottle#: 12

Method: 8260 25ml HP31

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\19930\20240206-105725.b\IF06X12.D
Lims ID: 410-159022-A-6
Client ID: HD-COD-SW-15-0/1-0
Sample Type: Client
Inject. Date: 06-Feb-2024 23:50:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0105725-013
Operator ID: gaw91131 Instrument ID: 19930
Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 07-Feb-2024 13:01:18 Calib Date: 23-Oct-2023 04:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1658

First Level Reviewer: N9NA

Date: 07-Feb-2024 13:03:48

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	9.54	95.39
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.60
\$ 78 Toluene-d8 (Surr)	10.0	10.3	102.75
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.69	96.94

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X12.D

Injection Date: 06-Feb-2024 23:50:30

Instrument ID: 19930

Lims ID: 410-159022-A-6

Lab Sample ID: 410-159022-6

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

Operator ID: gaw91131

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 25.000 mL

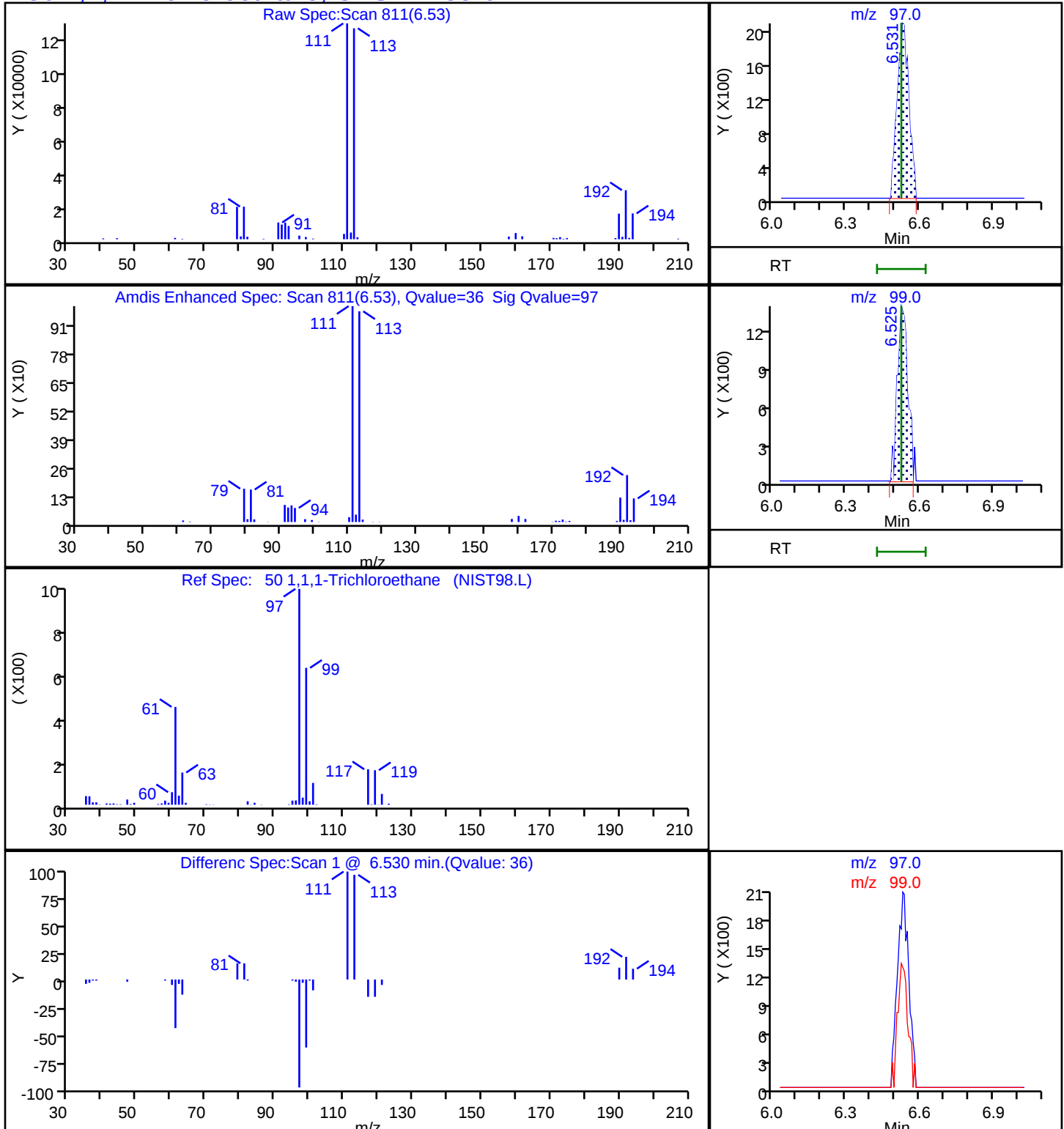
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

50 1,1,1-Trichloroethane, CAS: 71-55-6

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X12.D

Injection Date: 06-Feb-2024 23:50:30

Instrument ID: 19930

Lims ID: 410-159022-A-6

Lab Sample ID: 410-159022-6

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

Operator ID: gaw91131

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 25.000 mL

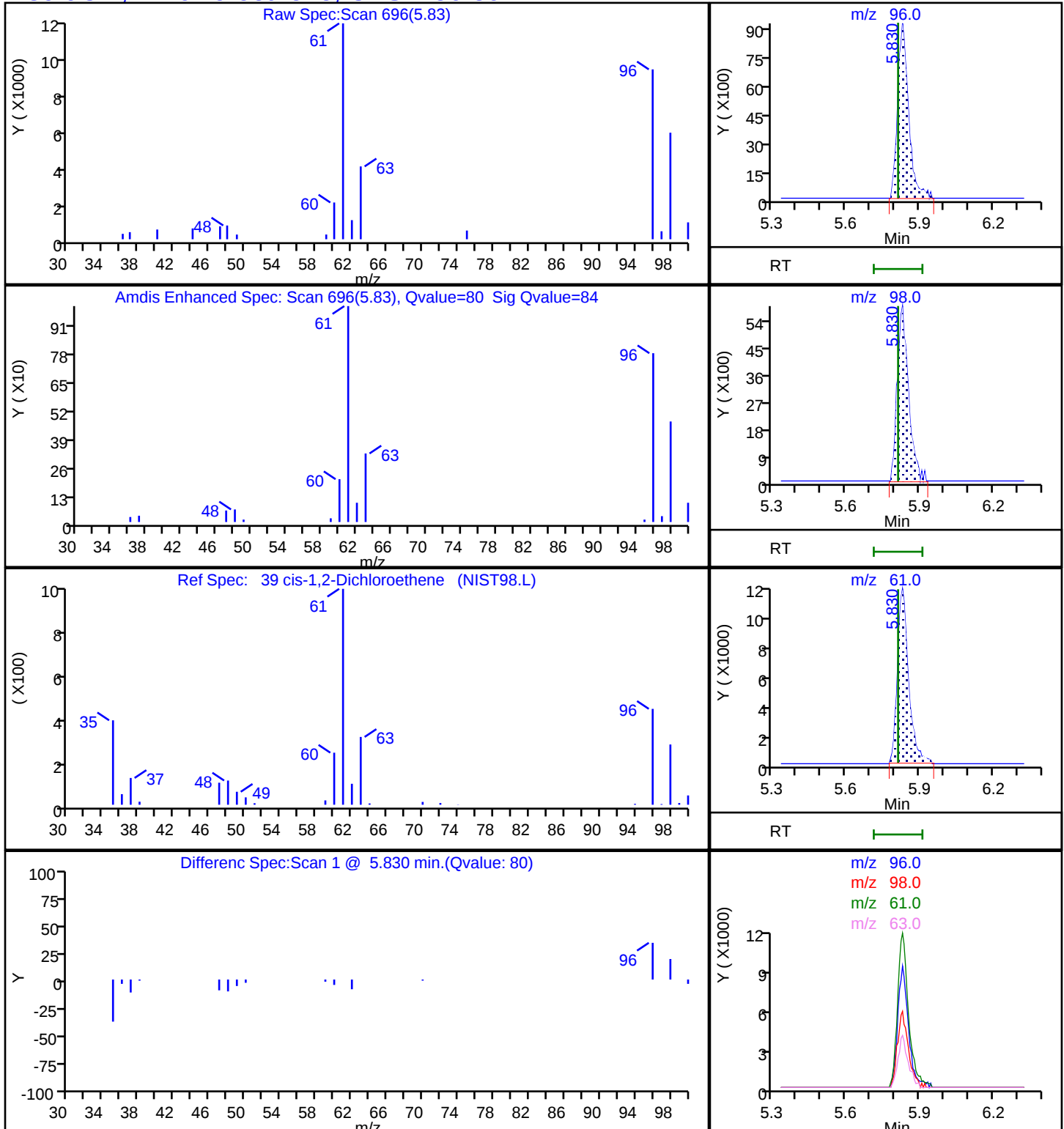
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X12.D

Injection Date: 06-Feb-2024 23:50:30

Instrument ID: 19930

Lims ID: 410-159022-A-6

Lab Sample ID: 410-159022-6

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

Operator ID: gaw91131

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 25.000 mL

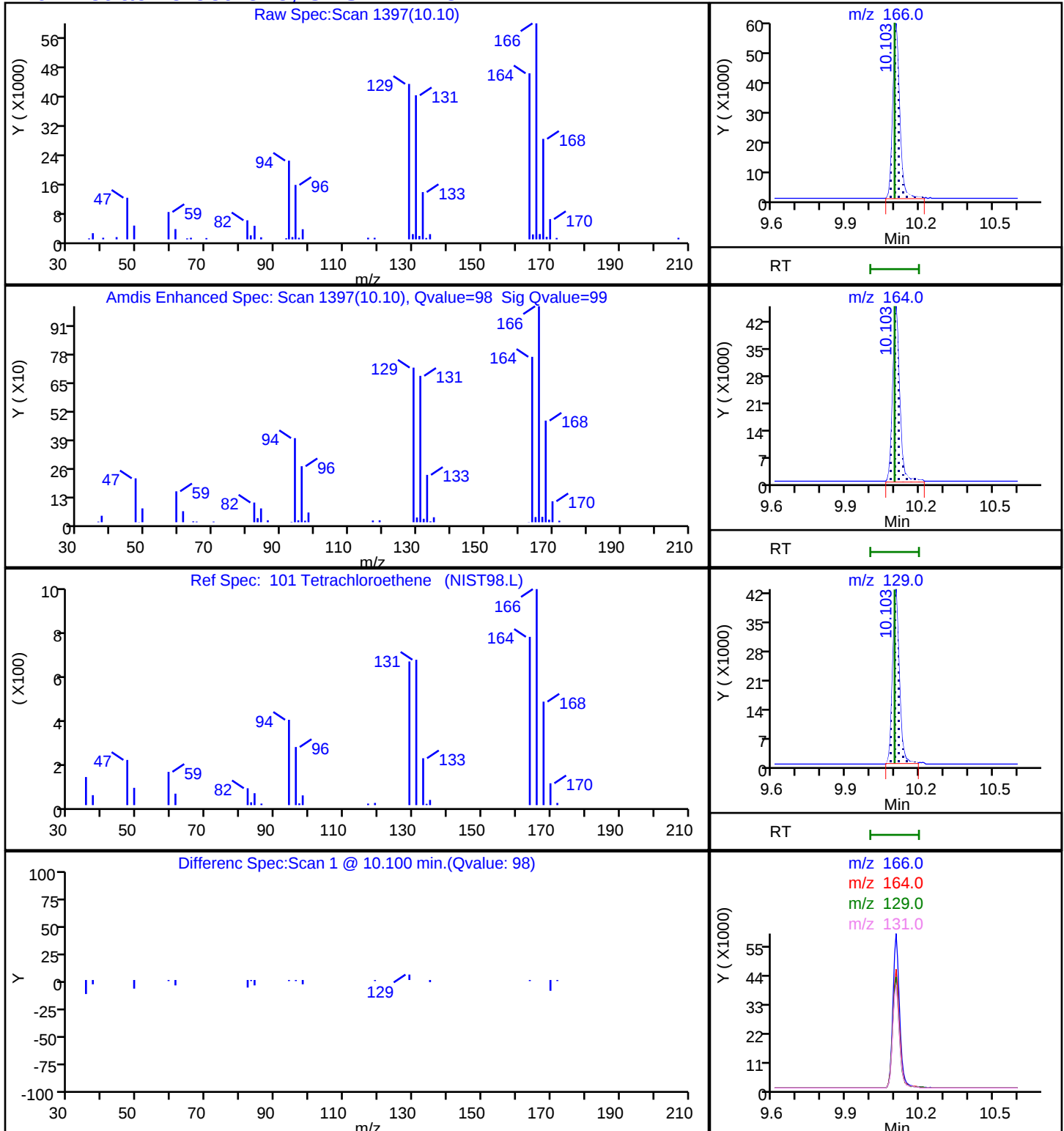
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

101 Tetrachloroethene, CAS: 127-18-4

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X12.D

Injection Date: 06-Feb-2024 23:50:30

Instrument ID: 19930

Lims ID: 410-159022-A-6

Lab Sample ID: 410-159022-6

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

Operator ID: gaw91131

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 25.000 mL

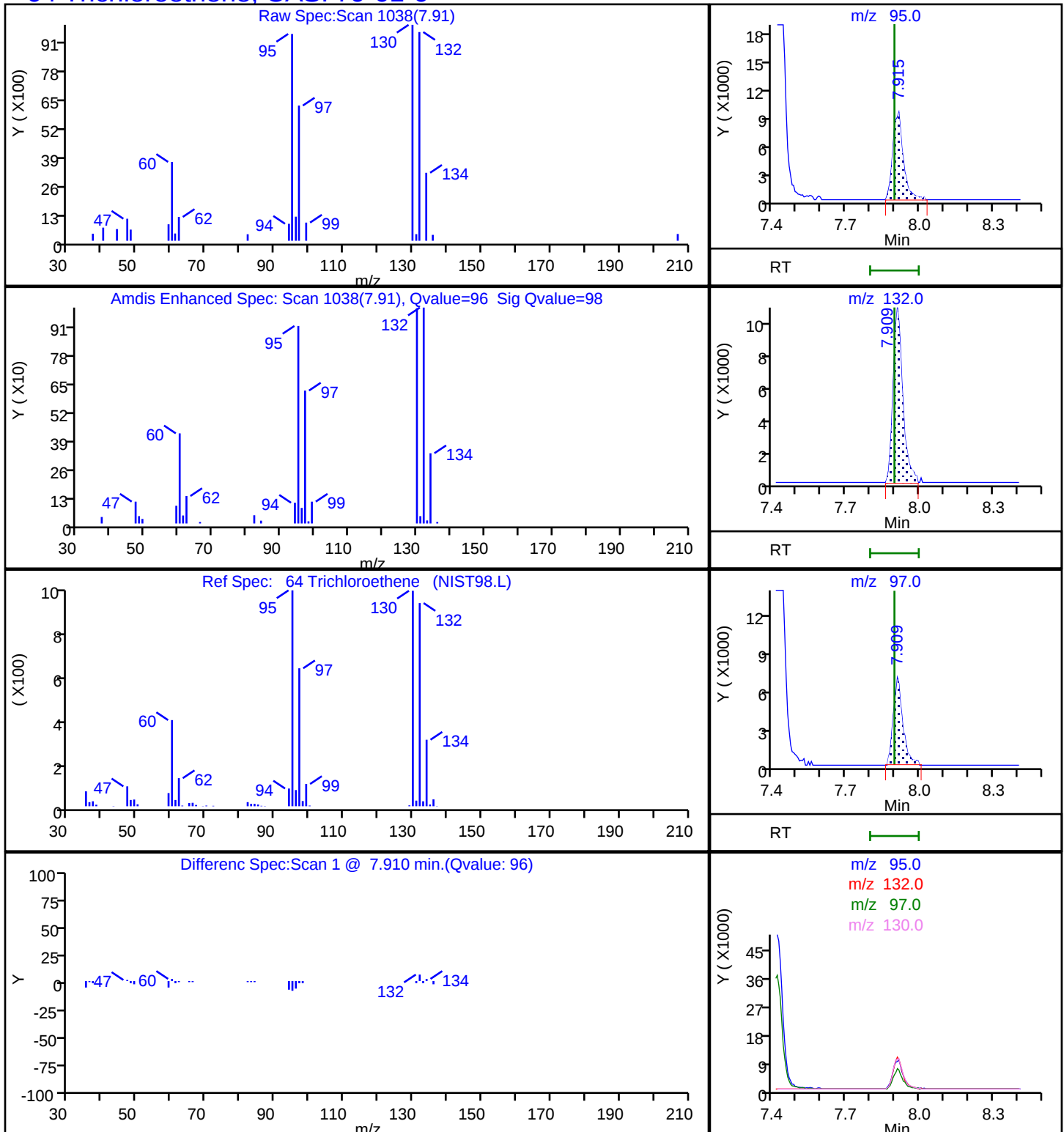
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

64 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

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

Lab Sample ID: 410-159022-7

Matrix: Water

Lab File ID: IF06X21.D

Analysis Method: 8260D

Date Collected: 01/29/2024 10:00

Sample wt/vol: 25 (mL)

Date Analyzed: 02/07/2024 02:59

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 470708

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	[^] c *+ cn	0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.2	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	[^] c cn	0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.34	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.: 410-159022-1

SDG No.:

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

Lab Sample ID: 410-159022-7

Matrix: Water

Lab File ID: IF06X21.D

Analysis Method: 8260D

Date Collected: 01/29/2024 10:00

Sample wt/vol: 25 (mL)

Date Analyzed: 02/07/2024 02:59

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 470708

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)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X21.D
 Lims ID: 410-159022-A-7
 Client ID: HD-COD-SW-16-0/1-0
 Sample Type: Client
 Inject. Date: 07-Feb-2024 02:59:30 ALS Bottle#: 21 Worklist Smp#: 22
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105725-022
 Operator ID: gaw91131 Instrument ID: 19930
 Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 07-Feb-2024 01:39:42 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1658

First Level Reviewer: N9NA

Date: 07-Feb-2024 15:49:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.014				ND	
5 Vinyl chloride	62		2.117				ND	
7 Bromomethane	94		2.446				ND	
8 Chloroethane	64		2.513				ND	
15 1,1-Dichloroethene	96		3.306				ND	
16 Acetone	43	3.355	3.330	0.025	69	6427	1.18	
20 Carbon disulfide	76	3.580	3.593	-0.013	31	3655	0.0365	
25 Methylene Chloride	84		3.922				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.934	3.940	-0.006	23	119615	50.0	
29 Methyl tert-butyl ether	73		4.306				ND	
30 trans-1,2-Dichloroethene	96		4.318				ND	
32 1,1-Dichloroethane	63		4.976				ND	
38 2-Butanone (MEK)	43		5.787				ND	
39 cis-1,2-Dichloroethene	96		5.812				ND	
46 Chlorobromomethane	128		6.147				ND	
48 Chloroform	83		6.299				ND	7
\$ 49 Dibromofluoromethane (Surr)	113	6.519	6.519	0.000	94	380473	9.41	
50 1,1,1-Trichloroethane	97		6.525				ND	
54 Carbon tetrachloride	117		6.738				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.976	6.970	0.006	62	81356	10.2	
57 Benzene	78		7.000				ND	
58 1,2-Dichloroethane	62		7.080				ND	
* 61 Fluorobenzene (IS)	96	7.415	7.409	0.006	99	1535591	10.0	
64 Trichloroethene	95	7.921	7.897	0.024	92	3657	0.0763	
66 1,2-Dichloropropane	63		8.220				ND	
71 Dichlorobromomethane	83		8.573				ND	
76 cis-1,3-Dichloropropene	75		9.134				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.311				ND	
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	94	1520851	10.2	
79 Toluene	92		9.530				ND	7
97 trans-1,3-Dichloropropene	75		9.805				ND	
100 1,1,2-Trichloroethane	97		10.006				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.103	10.097	0.006	98	19180	0.3368	
103 2-Hexanone	43		10.231				ND	
105 Chlorodibromomethane	129		10.396				ND	
106 Ethylene Dibromide	107		10.506				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.945	10.945	0.000	86	1163424	10.0	
109 Chlorobenzene	112		10.969				ND	
111 1,1,1,2-Tetrachloroethane	131		11.054				ND	
112 Ethylbenzene	91		11.061				ND	
113 m-Xylene & p-Xylene	106		11.176				ND	
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.506				ND	
115 Styrene	104		11.524				ND	
116 Bromoform	173		11.682				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.957	11.957	0.000	92	537077	9.55	
121 1,1,2,2-Tetrachloroethane	83		12.054				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.841	12.835	0.006	94	634269	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 07-Feb-2024 15:49:06

Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X21.D

Injection Date: 07-Feb-2024 02:59:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-159022-A-7

Lab Sample ID: 410-159022-7

Worklist Smp#: 22

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

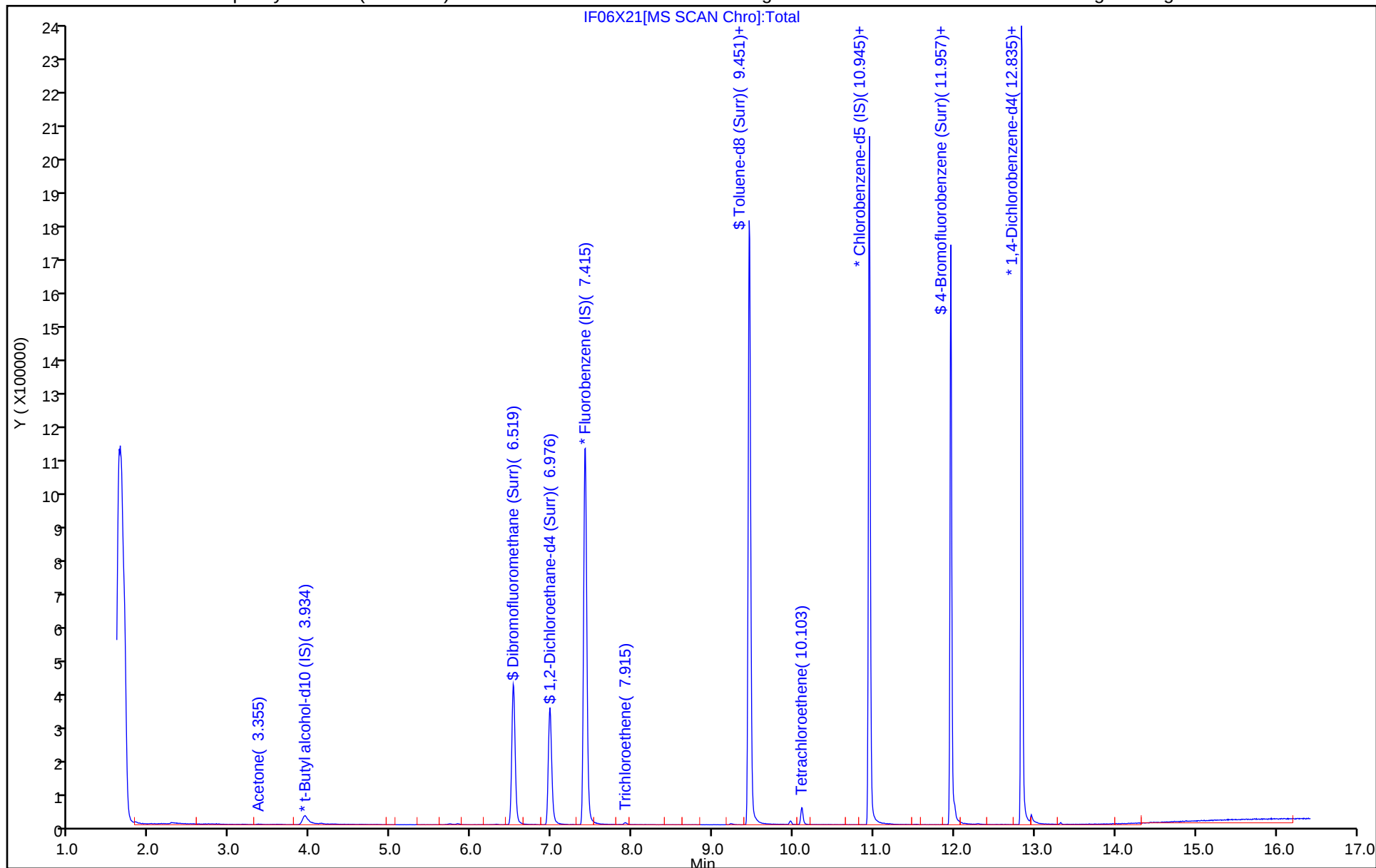
ALS Bottle#: 21

Method: 8260 25ml HP31

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\19930\20240206-105725.b\IF06X21.D
Lims ID: 410-159022-A-7
Client ID: HD-COD-SW-16-0/1-0
Sample Type: Client
Inject. Date: 07-Feb-2024 02:59:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0105725-022
Operator ID: gaw91131 Instrument ID: 19930
Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 07-Feb-2024 01:39:42 Calib Date: 23-Oct-2023 04:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1658

First Level Reviewer: N9NA

Date: 07-Feb-2024 15:49:06

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	9.41	94.05
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.49
\$ 78 Toluene-d8 (Surr)	10.0	10.2	102.36
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.55	95.53

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X21.D

Injection Date: 07-Feb-2024 02:59:30

Instrument ID: 19930

Lims ID: 410-159022-A-7

Lab Sample ID: 410-159022-7

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

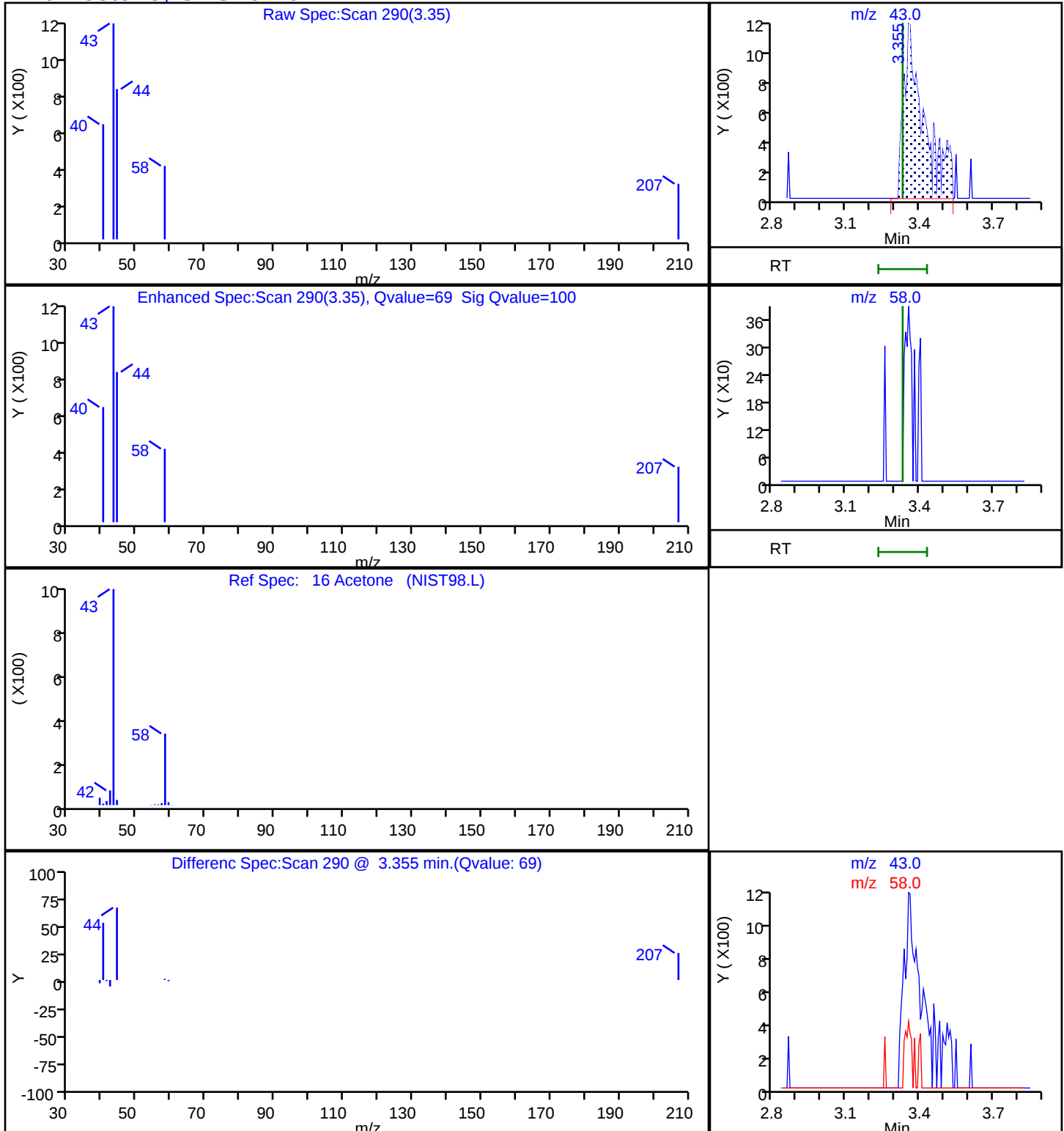
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

16 Acetone, CAS: 67-64-1

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X21.D

Injection Date: 07-Feb-2024 02:59:30

Instrument ID: 19930

Lims ID: 410-159022-A-7

Lab Sample ID: 410-159022-7

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

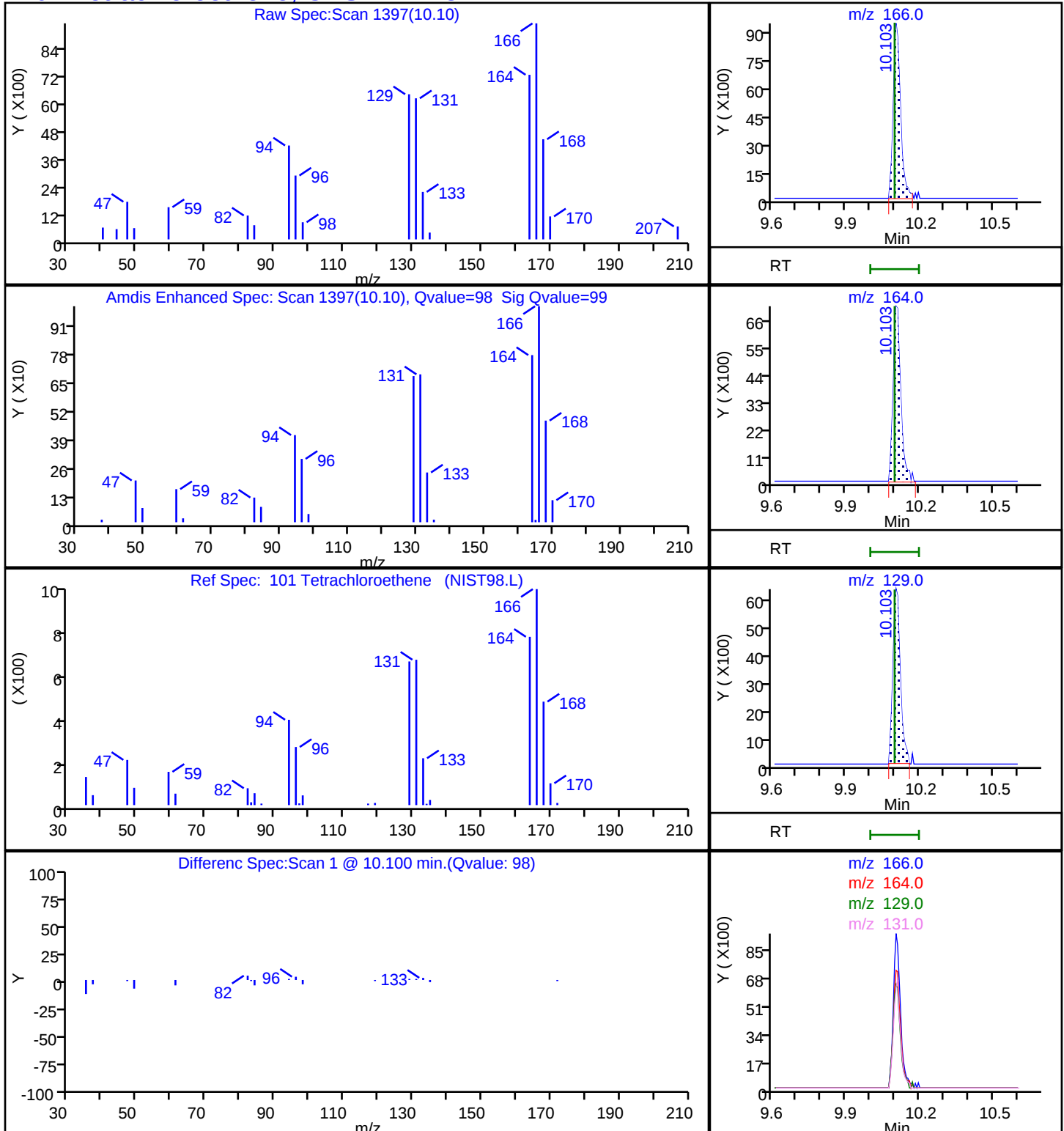
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

101 Tetrachloroethene, CAS: 127-18-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

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

Lab Sample ID: 410-159022-8

Matrix: Water

Lab File ID: IF06X26.D

Analysis Method: 8260D

Date Collected: 01/29/2024 10:10

Sample wt/vol: 25 (mL)

Date Analyzed: 02/07/2024 04:44

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.: 470708

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	3.4		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND	[^] c *+ cn	0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	0.98		0.50	0.10
75-35-4	1,1-Dichloroethene	0.37	J	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	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	[^] c cn	0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.11	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	5.0		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC	Job No.: 410-159022-1
SDG No.:	
Client Sample ID: HD-COD-SW-17-0/1-0	Lab Sample ID: 410-159022-8
Matrix: Water	Lab File ID: IF06X26.D
Analysis Method: 8260D	Date Collected: 01/29/2024 10:10
Sample wt/vol: 25 (mL)	Date Analyzed: 02/07/2024 04:44
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.: 470708	Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	2.9		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)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		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\19930\20240206-105725.b\IF06X26.D
 Lims ID: 410-159022-A-8
 Client ID: HD-COD-SW-17-0/1-0
 Sample Type: Client
 Inject. Date: 07-Feb-2024 04:44:30 ALS Bottle#: 26 Worklist Smp#: 27
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105725-027
 Operator ID: gaw91131 Instrument ID: 19930
 Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-Feb-2024 07:21:10 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1688

First Level Reviewer: N9NA

Date: 08-Feb-2024 07:21:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.014				ND	
5 Vinyl chloride	62	2.123	2.117	0.006	91	2896	0.0517	
7 Bromomethane	94		2.446				ND	
8 Chloroethane	64		2.513				ND	
15 1,1-Dichloroethene	96	3.318	3.306	0.012	98	12903	0.3665	
16 Acetone	43	3.361	3.330	0.031	92	7526	1.25	
20 Carbon disulfide	76	3.586	3.593	-0.007	94	3875	0.0390	
25 Methylene Chloride	84		3.922				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.940	3.940	0.000	27	132265	50.0	
29 Methyl tert-butyl ether	73		4.306				ND	7
30 trans-1,2-Dichloroethene	96		4.318				ND	7
32 1,1-Dichloroethane	63	4.989	4.976	0.013	96	71037	0.9826	
38 2-Butanone (MEK)	43		5.787				ND	
39 cis-1,2-Dichloroethene	96	5.824	5.812	0.012	79	234620	5.05	
46 Chlorobromomethane	128		6.147				ND	
48 Chloroform	83	6.312	6.299	0.013	91	8710	0.1092	
\$ 49 Dibromofluoromethane (Surr)	113	6.525	6.519	0.006	94	377147	9.38	
50 1,1,1-Trichloroethane	97	6.531	6.525	0.006	98	250790	3.38	
54 Carbon tetrachloride	117		6.738				ND	7
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.982	6.970	0.012	62	83118	10.5	
57 Benzene	78		7.000				ND	
58 1,2-Dichloroethane	62		7.080				ND	
* 61 Fluorobenzene (IS)	96	7.415	7.409	0.006	99	1526023	10.0	
64 Trichloroethene	95	7.903	7.897	0.006	98	137592	2.89	
66 1,2-Dichloropropane	63		8.220				ND	
71 Dichlorobromomethane	83		8.573				ND	
76 cis-1,3-Dichloropropene	75		9.134				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.311				ND	7
\$ 78 Toluene-d8 (Surr)	98	9.457	9.451	0.006	93	1519541	10.0	
79 Toluene	92		9.530				ND	7
97 trans-1,3-Dichloropropene	75		9.805				ND	
100 1,1,2-Trichloroethane	97		10.006				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.104	10.097	0.007	98	3175223	54.7	E
103 2-Hexanone	43		10.231				ND	
105 Chlorodibromomethane	129		10.396				ND	
106 Ethylene Dibromide	107		10.506				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.945	10.945	0.000	86	1185118	10.0	
109 Chlorobenzene	112		10.969				ND	
111 1,1,1,2-Tetrachloroethane	131		11.054				ND	
112 Ethylbenzene	91		11.061				ND	
113 m-Xylene & p-Xylene	106		11.176				ND	
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.506				ND	
115 Styrene	104		11.524				ND	
116 Bromoform	173		11.682				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.957	11.957	0.000	93	542642	9.48	
121 1,1,2,2-Tetrachloroethane	83		12.054				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.835	12.835	0.000	94	637508	10.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-Feb-2024 07:21:11

Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X26.D

Injection Date: 07-Feb-2024 04:44:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-159022-A-8

Lab Sample ID: 410-159022-8

Worklist Smp#: 27

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

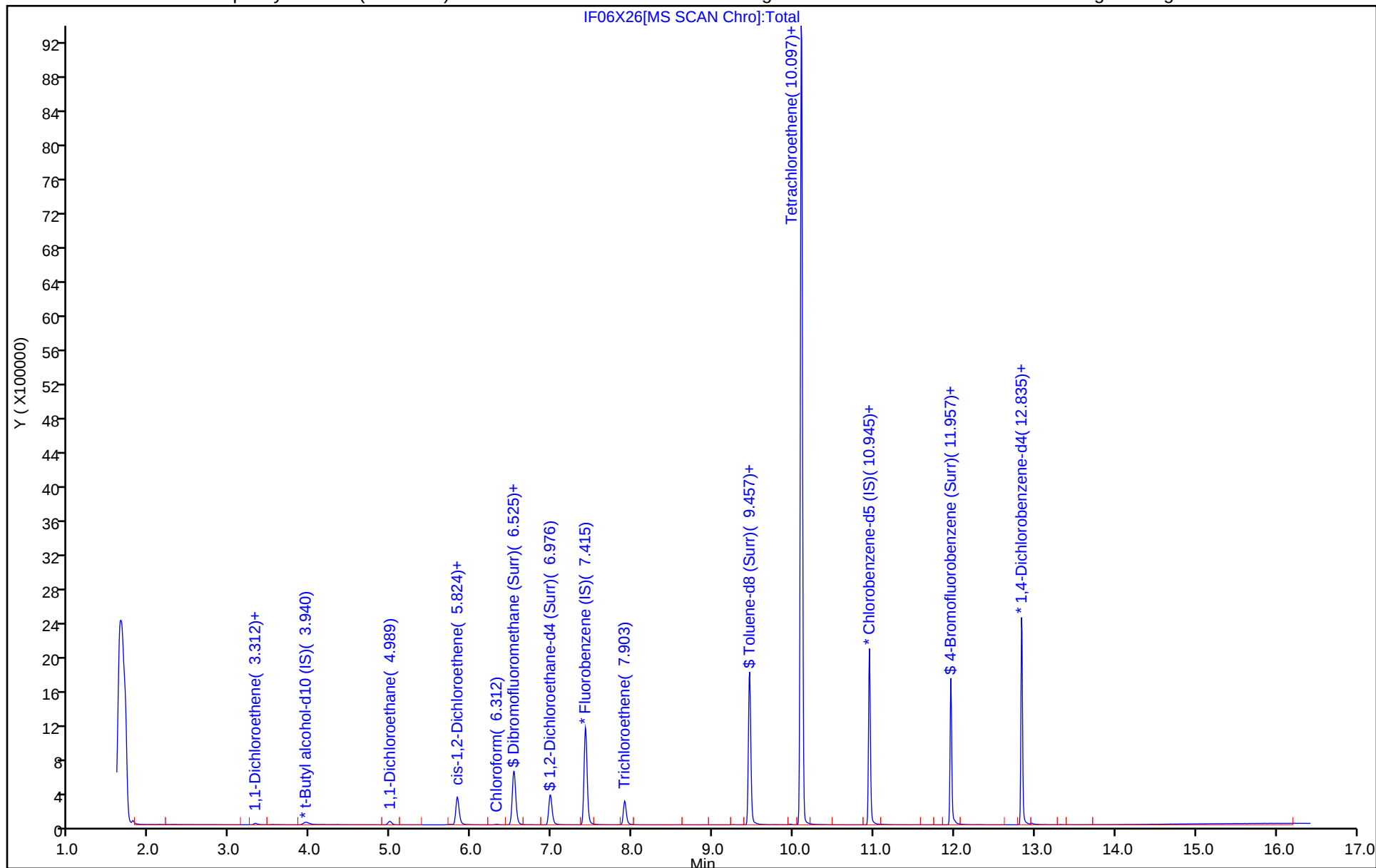
ALS Bottle#: 26

Method: 8260 25ml HP31

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\19930\20240206-105725.b\IF06X26.D
Lims ID: 410-159022-A-8
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 07-Feb-2024 04:44:30 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0105725-027
Operator ID: gaw91131 Instrument ID: 19930
Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 08-Feb-2024 07:21:10 Calib Date: 23-Oct-2023 04:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1688

First Level Reviewer: N9NA

Date: 08-Feb-2024 07:21:10

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	9.38	93.82
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.36
\$ 78 Toluene-d8 (Surr)	10.0	10.0	100.40
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.48	94.75

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X26.D

Injection Date: 07-Feb-2024 04:44:30

Instrument ID: 19930

Lims ID: 410-159022-A-8

Lab Sample ID: 410-159022-8

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

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

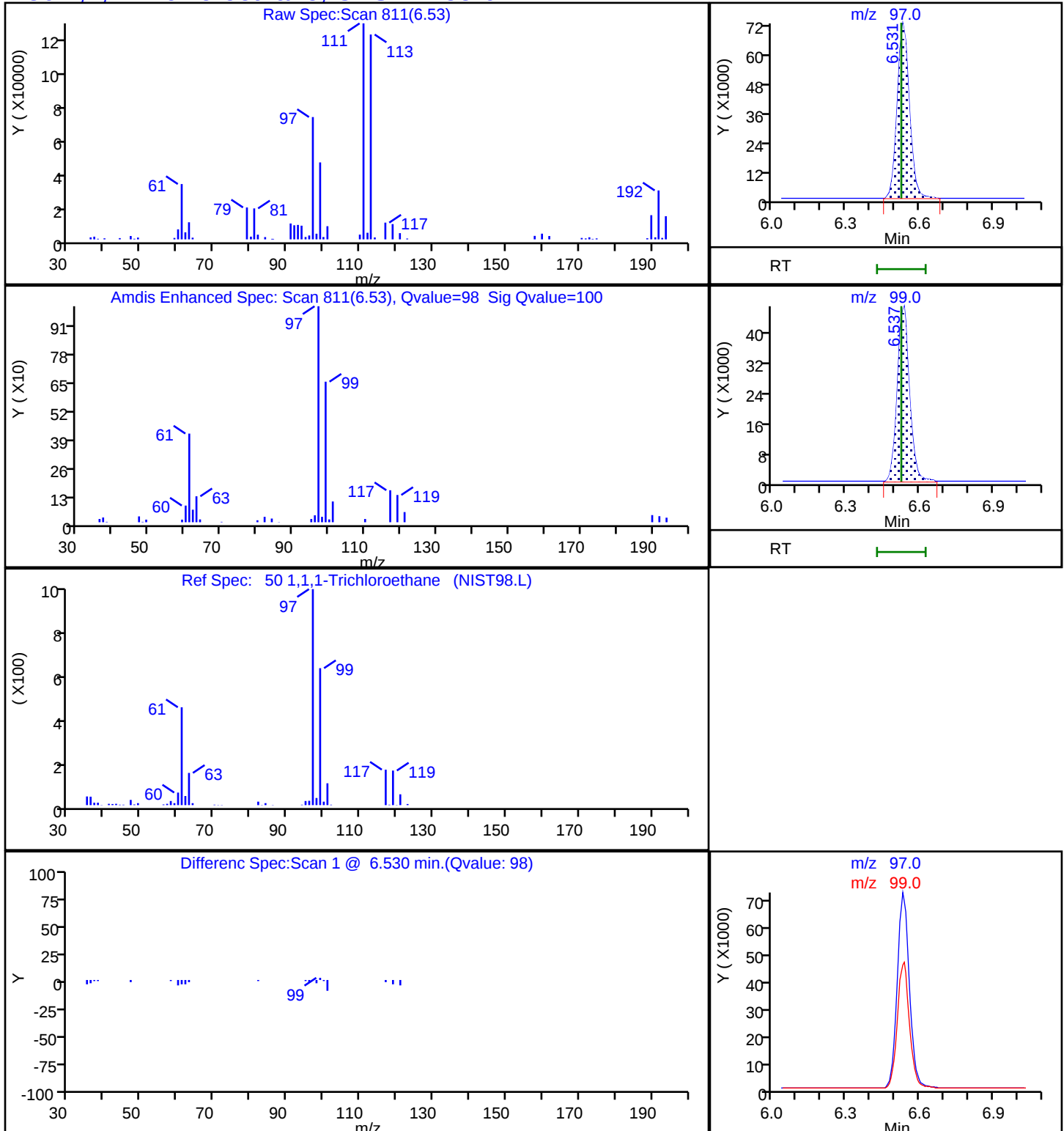
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

50 1,1,1-Trichloroethane, CAS: 71-55-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X26.D

Injection Date: 07-Feb-2024 04:44:30

Instrument ID: 19930

Lims ID: 410-159022-A-8

Lab Sample ID: 410-159022-8

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

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

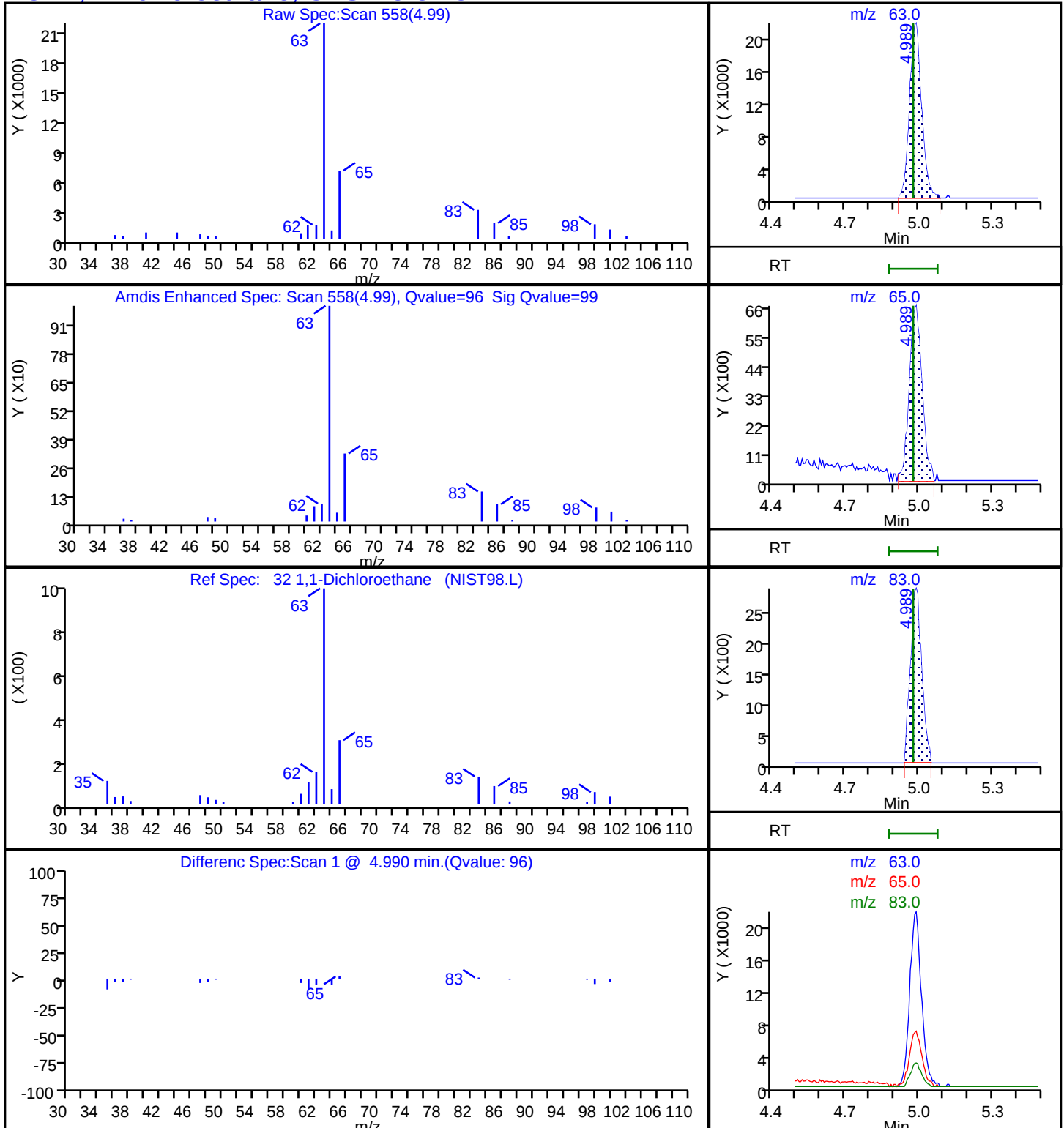
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

32 1,1-Dichloroethane, CAS: 75-34-3

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X26.D

Injection Date: 07-Feb-2024 04:44:30

Instrument ID: 19930

Lims ID: 410-159022-A-8

Lab Sample ID: 410-159022-8

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

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

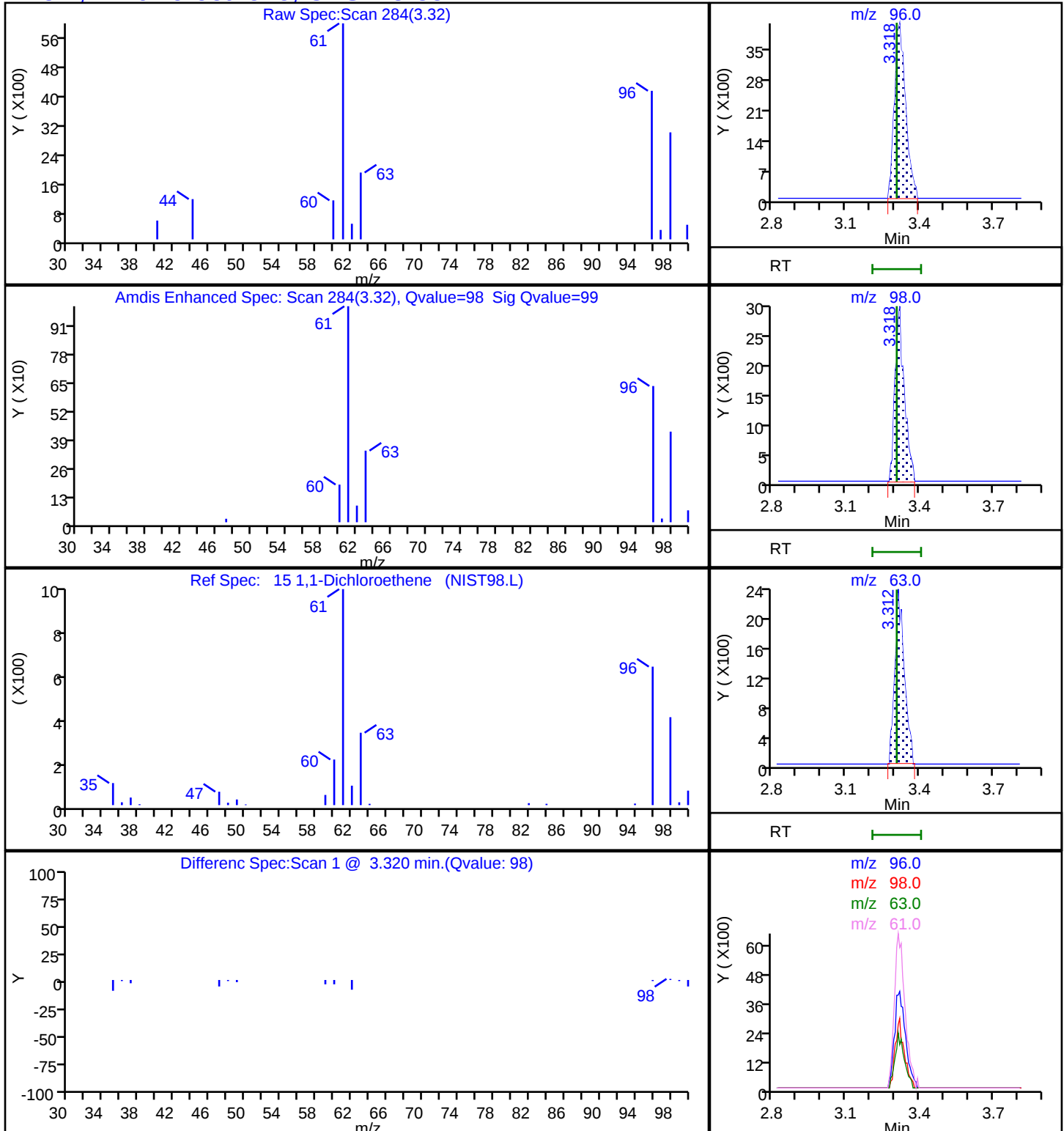
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

15 1,1-Dichloroethene, CAS: 75-35-4

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X26.D

Injection Date: 07-Feb-2024 04:44:30

Instrument ID: 19930

Lims ID: 410-159022-A-8

Lab Sample ID: 410-159022-8

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

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

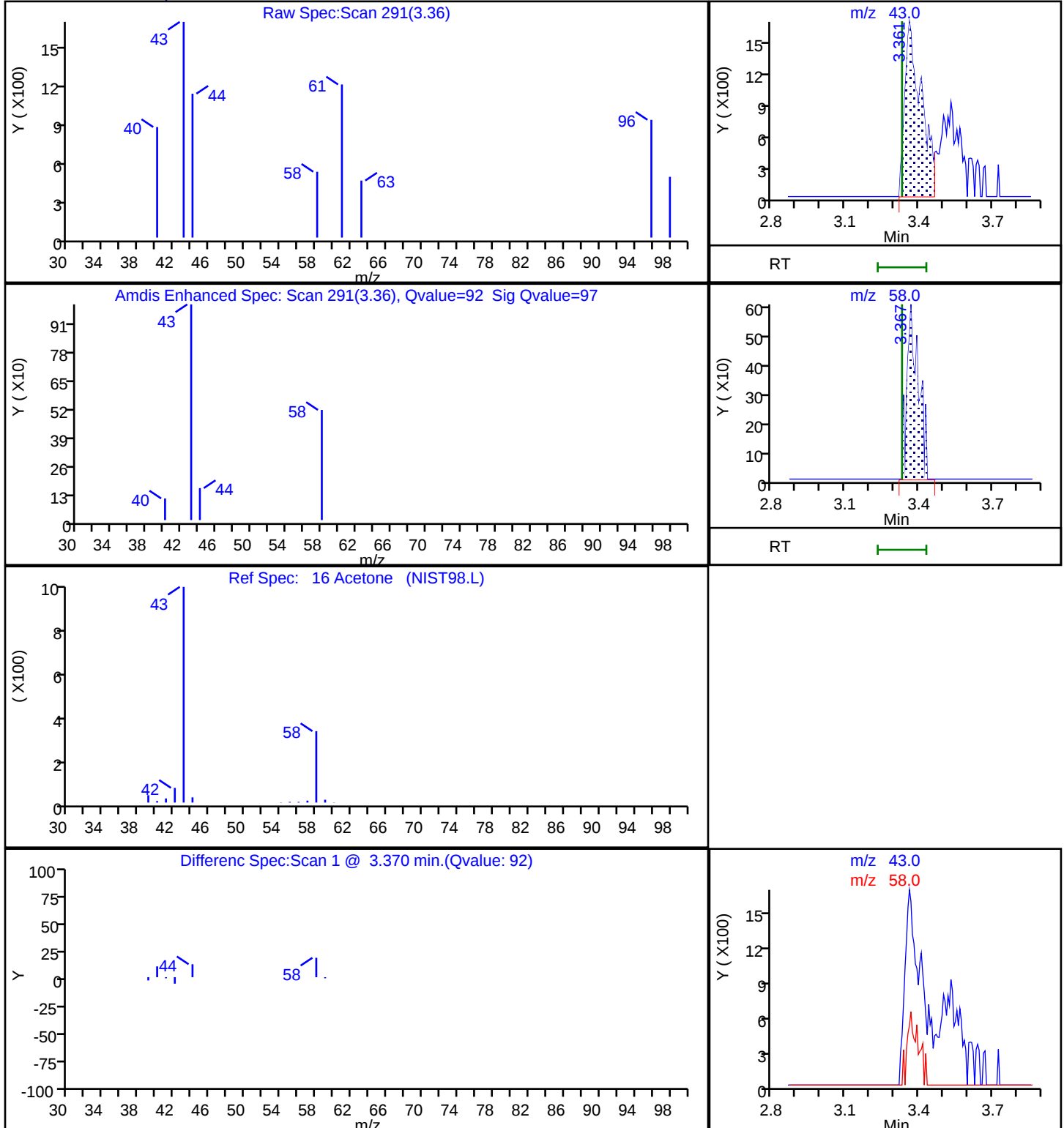
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

16 Acetone, CAS: 67-64-1

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X26.D

Injection Date: 07-Feb-2024 04:44:30

Instrument ID: 19930

Lims ID: 410-159022-A-8

Lab Sample ID: 410-159022-8

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

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

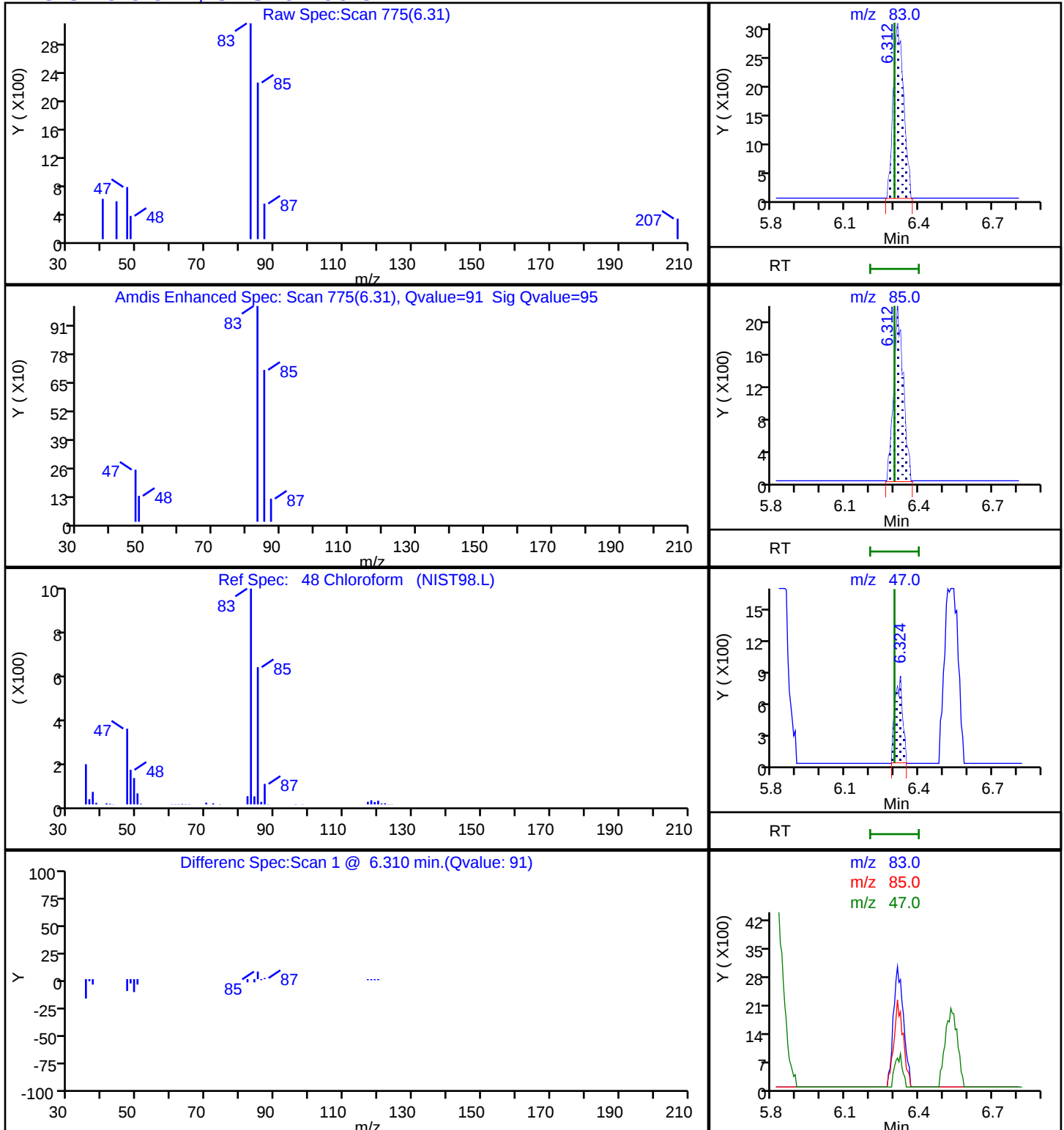
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

48 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X26.D

Injection Date: 07-Feb-2024 04:44:30

Instrument ID: 19930

Lims ID: 410-159022-A-8

Lab Sample ID: 410-159022-8

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

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

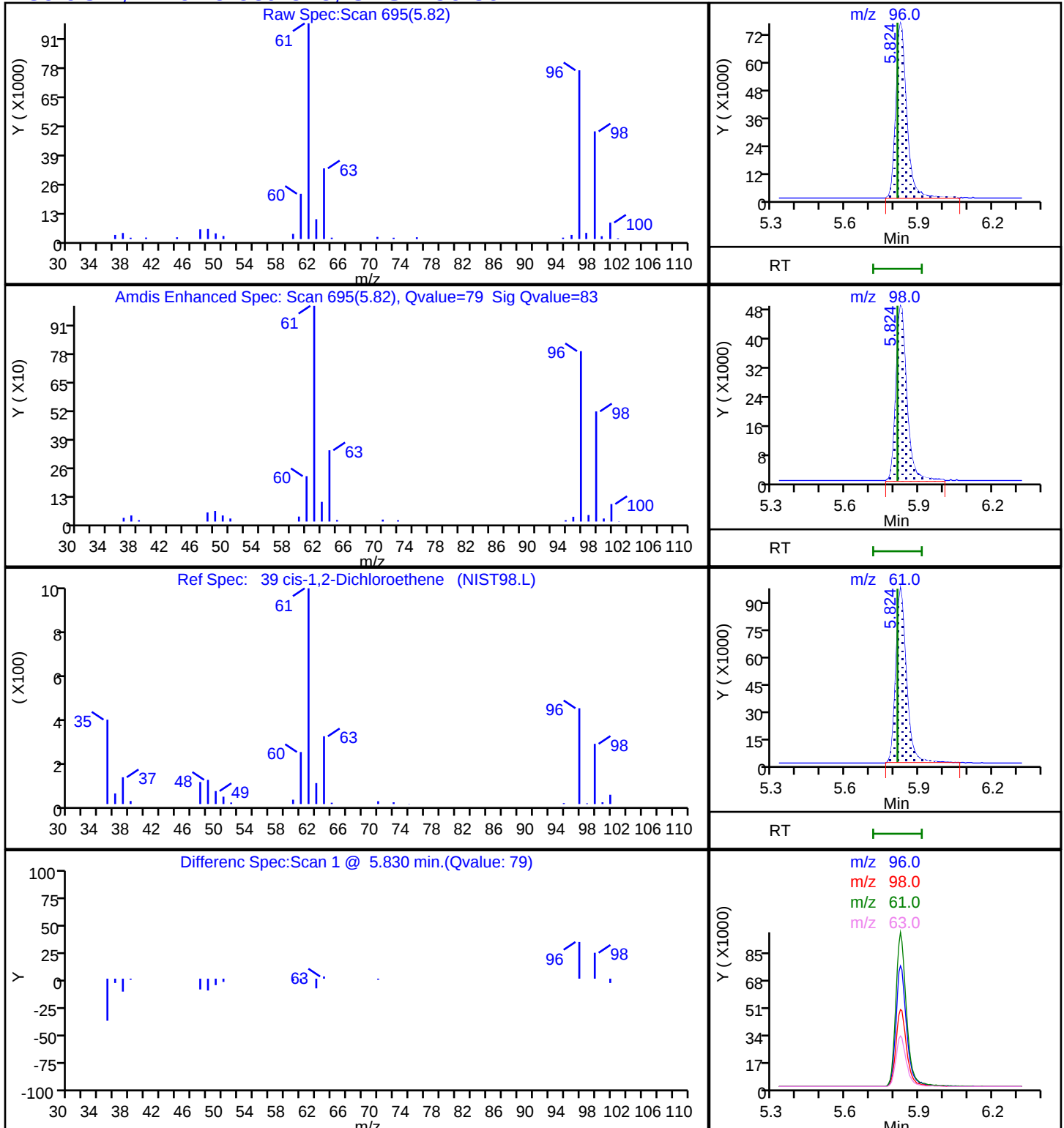
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X26.D

Injection Date: 07-Feb-2024 04:44:30

Instrument ID: 19930

Lims ID: 410-159022-A-8

Lab Sample ID: 410-159022-8

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

Operator ID: gaw91131

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 25.000 mL

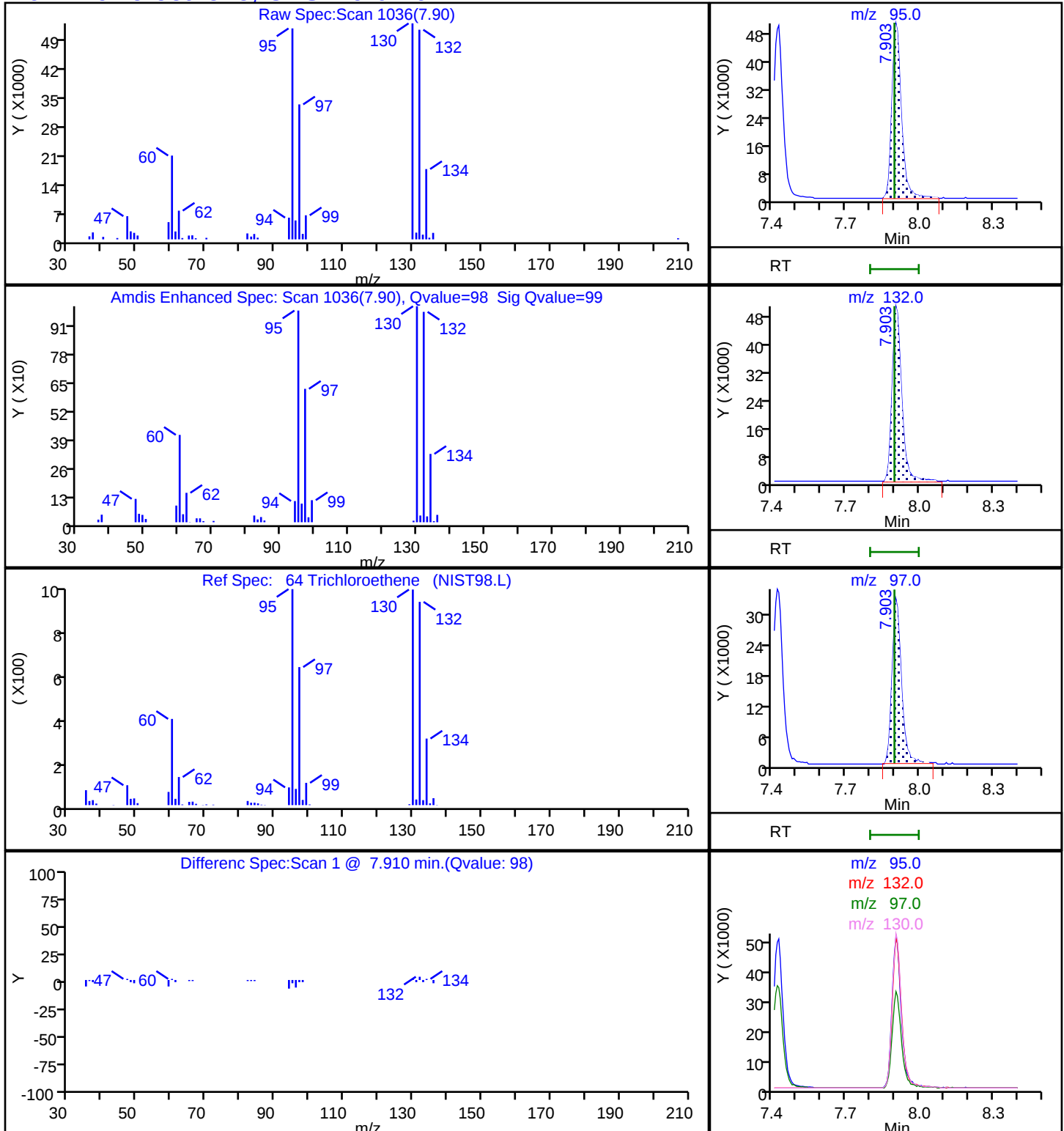
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

64 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X26.D

Injection Date: 07-Feb-2024 04:44:30

Instrument ID: 19930

Lims ID: 410-159022-A-8

Lab Sample ID: 410-159022-8

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

Operator ID: gaw91131

ALS Bottle#:

26

Worklist Smp#: 27

Purge Vol: 25.000 mL

Dil. Factor:

1.0000

Method: 8260 25ml HP31

Limit Group:

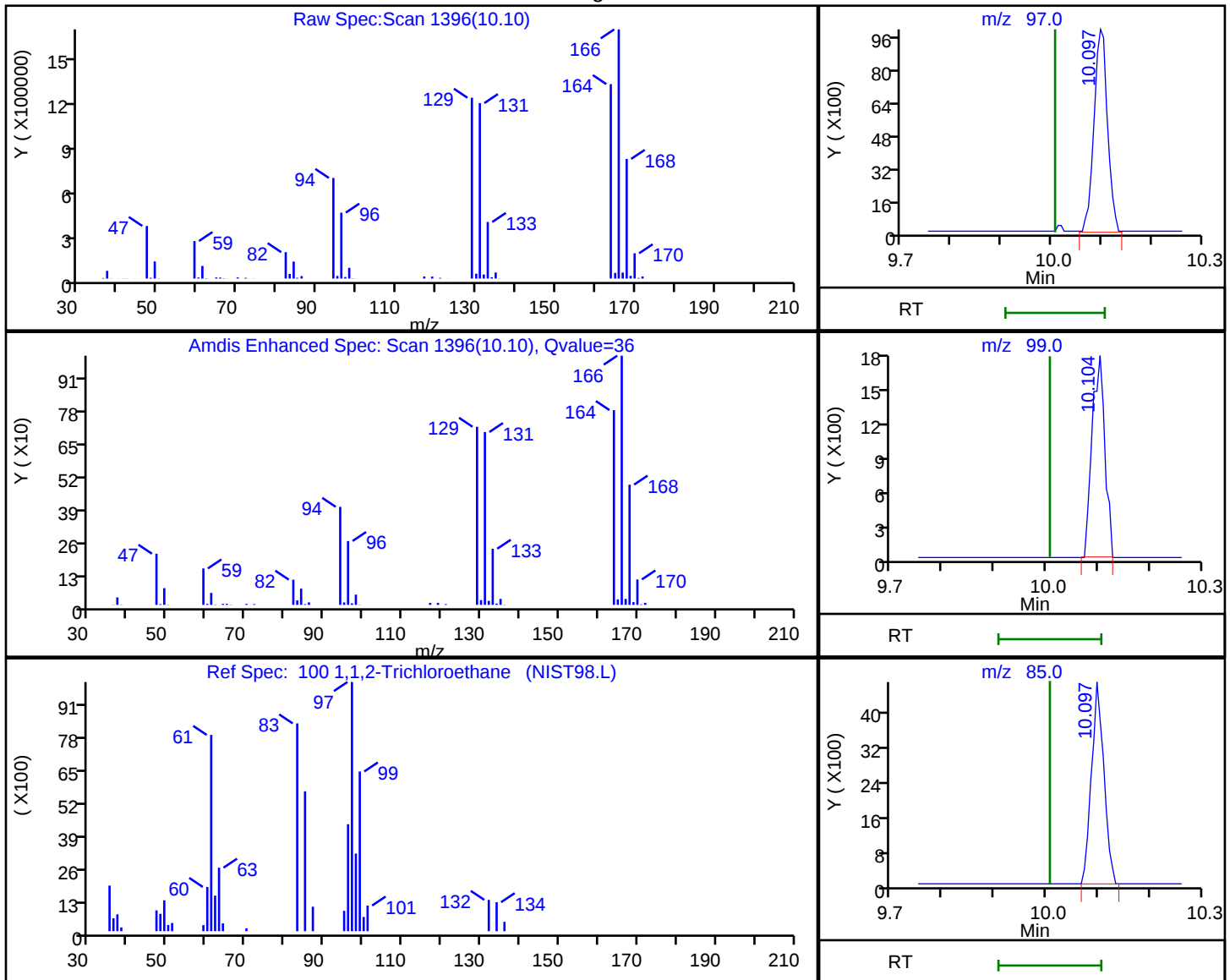
MSV - 8260C_D

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

MS Quad

100 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
10.10	97.00	18663	0.598614
10.10	99.00	2953	
10.10	85.00	7808	
10.10	83.00	54761	

Reviewer: N9NA, 08-Feb-2024 07:21:03 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1
Environment Testing, LLC
SDG No.:
Client Sample ID: HD-COD-SW-17-0/1-0 DL Lab Sample ID: 410-159022-8 DL
Matrix: Water Lab File ID: IF06X27.D
Analysis Method: 8260D Date Collected: 01/29/2024 10:10
Sample wt/vol: 25 (mL) Date Analyzed: 02/07/2024 05:05
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.: 470708 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	42		5.0	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		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\19930\20240206-105725.b\IF06X27.D
 Lims ID: 410-159022-B-8 DL
 Client ID: HD-COD-SW-17-0/1-0
 Sample Type: Client
 Inject. Date: 07-Feb-2024 05:05:30 ALS Bottle#: 27 Worklist Smp#: 28
 Purge Vol: 25.000 mL Dil. Factor: 10.0000
 Sample Info: 410-0105725-028
 Operator ID: gaw91131 Instrument ID: 19930
 Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-Feb-2024 07:22:01 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1688

First Level Reviewer: N9NA

Date: 08-Feb-2024 07:22:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.014				ND	
5 Vinyl chloride	62		2.117				ND	
7 Bromomethane	94		2.446				ND	
8 Chloroethane	64		2.513				ND	
15 1,1-Dichloroethene	96		3.306				ND	7
16 Acetone	43		3.330				ND	7
20 Carbon disulfide	76		3.593				ND	7
25 Methylene Chloride	84		3.922				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.928	3.940	-0.012	27	133300	50.0	
29 Methyl tert-butyl ether	73		4.306				ND	
30 trans-1,2-Dichloroethene	96		4.318				ND	
32 1,1-Dichloroethane	63	4.970	4.976	-0.006	88	5059	0.0696	a
38 2-Butanone (MEK)	43		5.787				ND	
39 cis-1,2-Dichloroethene	96	5.824	5.812	0.012	81	16823	0.3601	
46 Chlorobromomethane	128		6.147				ND	
48 Chloroform	83		6.299				ND	7
\$ 49 Dibromofluoromethane (Surr)	113	6.519	6.519	0.000	94	383179	9.48	
50 1,1,1-Trichloroethane	97	6.519	6.525	-0.006	37	18943	0.2538	
54 Carbon tetrachloride	117		6.738				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.976	6.970	0.006	63	84411	10.6	
57 Benzene	78		7.000				ND	
58 1,2-Dichloroethane	62		7.080				ND	
* 61 Fluorobenzene (IS)	96	7.415	7.409	0.006	99	1533865	10.0	
64 Trichloroethene	95	7.903	7.897	0.006	97	10462	0.2186	
66 1,2-Dichloropropane	63		8.220				ND	
71 Dichlorobromomethane	83		8.573				ND	
76 cis-1,3-Dichloropropene	75		9.134				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.311				ND	
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	93	1521401	10.1	
79 Toluene	92		9.530				ND	
97 trans-1,3-Dichloropropene	75		9.805				ND	
100 1,1,2-Trichloroethane	97		10.006				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.097	10.097	0.000	98	244921	4.23	
103 2-Hexanone	43		10.231				ND	
105 Chlorodibromomethane	129		10.396				ND	
106 Ethylene Dibromide	107		10.506				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.945	10.945	0.000	86	1183997	10.0	
109 Chlorobenzene	112		10.969				ND	
111 1,1,1,2-Tetrachloroethane	131		11.054				ND	
112 Ethylbenzene	91		11.061				ND	
113 m-Xylene & p-Xylene	106		11.176				ND	
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.506				ND	
115 Styrene	104		11.524				ND	
116 Bromoform	173		11.682				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.957	11.957	0.000	92	542968	9.49	
121 1,1,2,2-Tetrachloroethane	83		12.054				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.835	12.835	0.000	95	639752	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-Feb-2024 07:22:01

Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X27.D

Injection Date: 07-Feb-2024 05:05:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-159022-B-8 DL

Lab Sample ID: 410-159022-8

Worklist Smp#: 28

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

Purge Vol: 25.000 mL

Dil. Factor: 10.0000

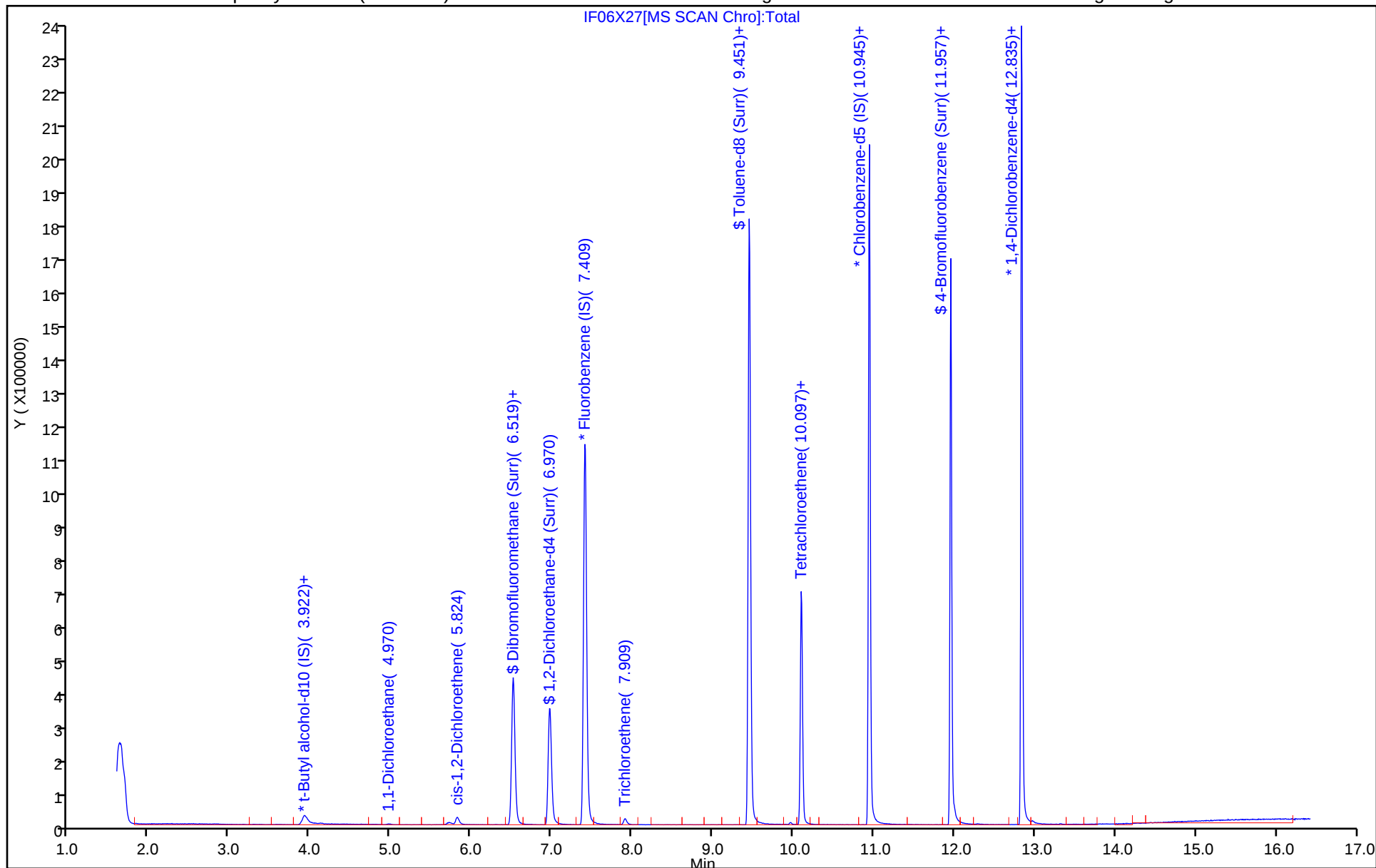
ALS Bottle#: 27

Method: 8260 25ml HP31

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\19930\20240206-105725.b\IF06X27.D
Lims ID: 410-159022-B-8 DL
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 07-Feb-2024 05:05:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0105725-028
Operator ID: gaw91131 Instrument ID: 19930
Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 08-Feb-2024 07:22:01 Calib Date: 23-Oct-2023 04:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1688

First Level Reviewer: N9NA

Date: 08-Feb-2024 07:22:01

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	9.48	94.83
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	106.45
\$ 78 Toluene-d8 (Surr)	10.0	10.1	100.61
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.49	94.90

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X27.D

Injection Date: 07-Feb-2024 05:05:30

Instrument ID: 19930

Lims ID: 410-159022-B-8 DL

Lab Sample ID: 410-159022-8

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

Operator ID: gaw91131

ALS Bottle#: 27

Worklist Smp#: 28

Purge Vol: 25.000 mL

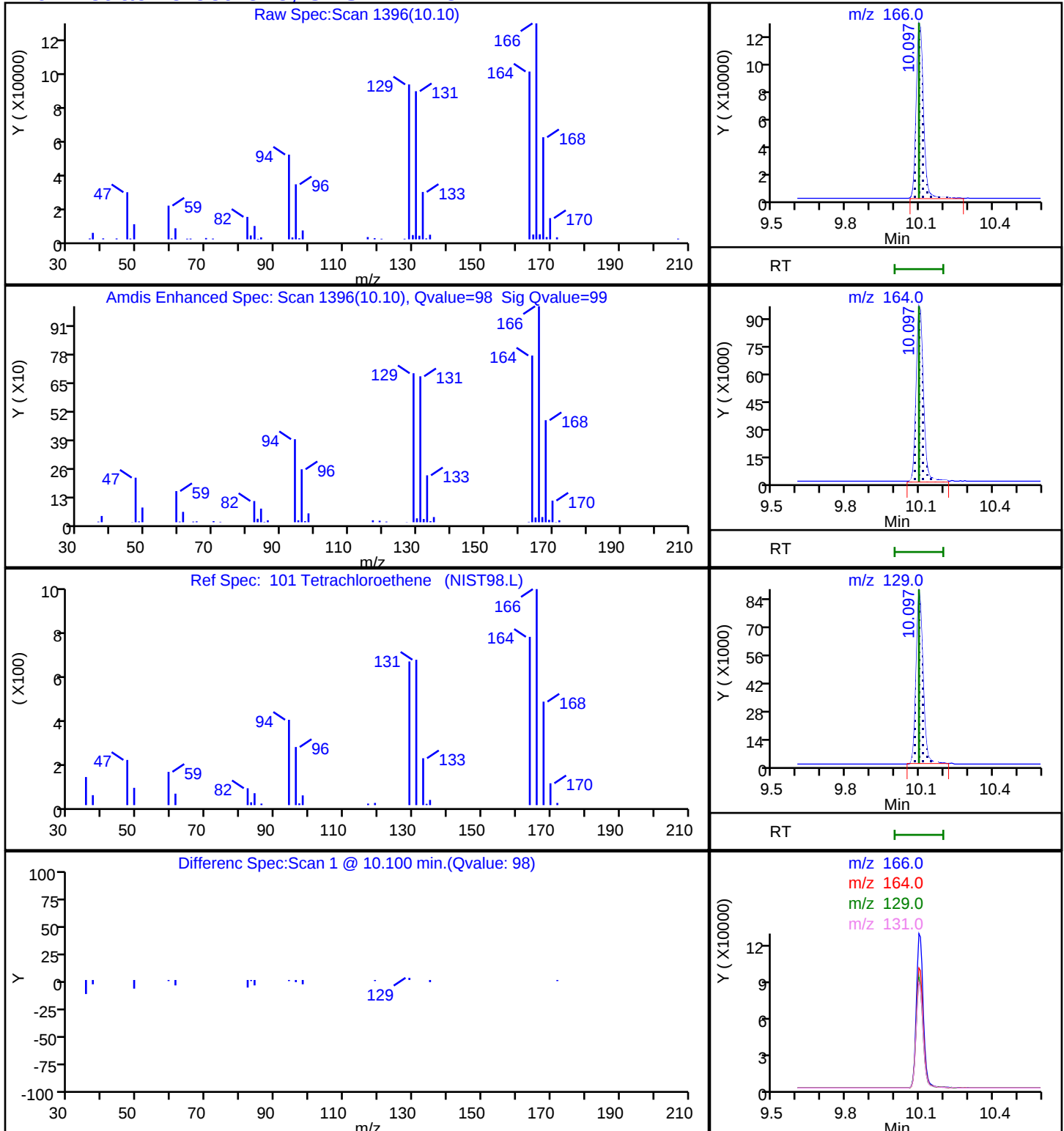
Dil. Factor: 10.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

101 Tetrachloroethene, CAS: 127-18-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

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

Lab Sample ID: 410-159022-9

Matrix: Water

Lab File ID: IF06X22.D

Analysis Method: 8260D

Date Collected: 01/29/2024 10:53

Sample wt/vol: 25 (mL)

Date Analyzed: 02/07/2024 03:20

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 470708

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	[^] c *+ cn	0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.1	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	[^] c cn	0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
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.: 410-159022-1

SDG No. :

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

Lab Sample ID: 410-159022-9

Matrix: Water

Lab File ID: IF06X22.D

Analysis Method: 8260D

Date Collected: 01/29/2024 10:53

Sample wt/vol: 25 (mL)

Date Analyzed: 02/07/2024 03:20

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 470708

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)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X22.D
 Lims ID: 410-159022-A-9
 Client ID: HD-COD-SW-26-0/1-0
 Sample Type: Client
 Inject. Date: 07-Feb-2024 03:20:30 ALS Bottle#: 22 Worklist Smp#: 23
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105725-023
 Operator ID: gaw91131 Instrument ID: 19930
 Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 07-Feb-2024 01:39:42 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1658

First Level Reviewer: N9NA

Date: 07-Feb-2024 15:50:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.014				ND	
5 Vinyl chloride	62		2.117				ND	
7 Bromomethane	94		2.446				ND	
8 Chloroethane	64		2.513				ND	
15 1,1-Dichloroethene	96		3.306				ND	
16 Acetone	43	3.355	3.330	0.025	69	6326	1.13	
20 Carbon disulfide	76	3.592	3.593	-0.001	94	3793	0.0383	
25 Methylene Chloride	84		3.922				ND	7
* 26 t-Butyl alcohol-d10 (IS)	65	3.922	3.940	-0.018	27	123301	50.0	
29 Methyl tert-butyl ether	73		4.306				ND	
30 trans-1,2-Dichloroethene	96		4.318				ND	
32 1,1-Dichloroethane	63		4.976				ND	
38 2-Butanone (MEK)	43		5.787				ND	
39 cis-1,2-Dichloroethene	96		5.812				ND	
46 Chlorobromomethane	128		6.147				ND	
48 Chloroform	83	6.305	6.299	0.006	86	3158	0.0397	
\$ 49 Dibromofluoromethane (Surr)	113	6.519	6.519	0.000	94	376954	9.41	
50 1,1,1-Trichloroethane	97		6.525				ND	
54 Carbon tetrachloride	117		6.738				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.970	6.970	0.000	63	82641	10.5	
57 Benzene	78		7.000				ND	
58 1,2-Dichloroethane	62		7.080				ND	
* 61 Fluorobenzene (IS)	96	7.409	7.409	0.000	99	1521059	10.0	
64 Trichloroethene	95	7.909	7.897	0.012	91	3407	0.0718	
66 1,2-Dichloropropane	63		8.220				ND	
71 Dichlorobromomethane	83		8.573				ND	
76 cis-1,3-Dichloropropene	75		9.134				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.311				ND	
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	93	1520149	10.2	
79 Toluene	92		9.530				ND	7
97 trans-1,3-Dichloropropene	75		9.805				ND	
100 1,1,2-Trichloroethane	97		10.006				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.110	10.097	0.013	91	2336	0.0408	
103 2-Hexanone	43		10.231				ND	
105 Chlorodibromomethane	129		10.396				ND	
106 Ethylene Dibromide	107		10.506				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.945	10.945	0.000	86	1169170	10.0	
109 Chlorobenzene	112		10.969				ND	
111 1,1,1,2-Tetrachloroethane	131		11.054				ND	
112 Ethylbenzene	91		11.061				ND	
113 m-Xylene & p-Xylene	106		11.176				ND	7
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.506				ND	
115 Styrene	104		11.524				ND	
116 Bromoform	173		11.682				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.957	11.957	0.000	93	537858	9.52	
121 1,1,2,2-Tetrachloroethane	83		12.054				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.835	12.835	0.000	95	632850	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 07-Feb-2024 15:50:02

Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X22.D

Injection Date: 07-Feb-2024 03:20:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-159022-A-9

Lab Sample ID: 410-159022-9

Worklist Smp#: 23

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

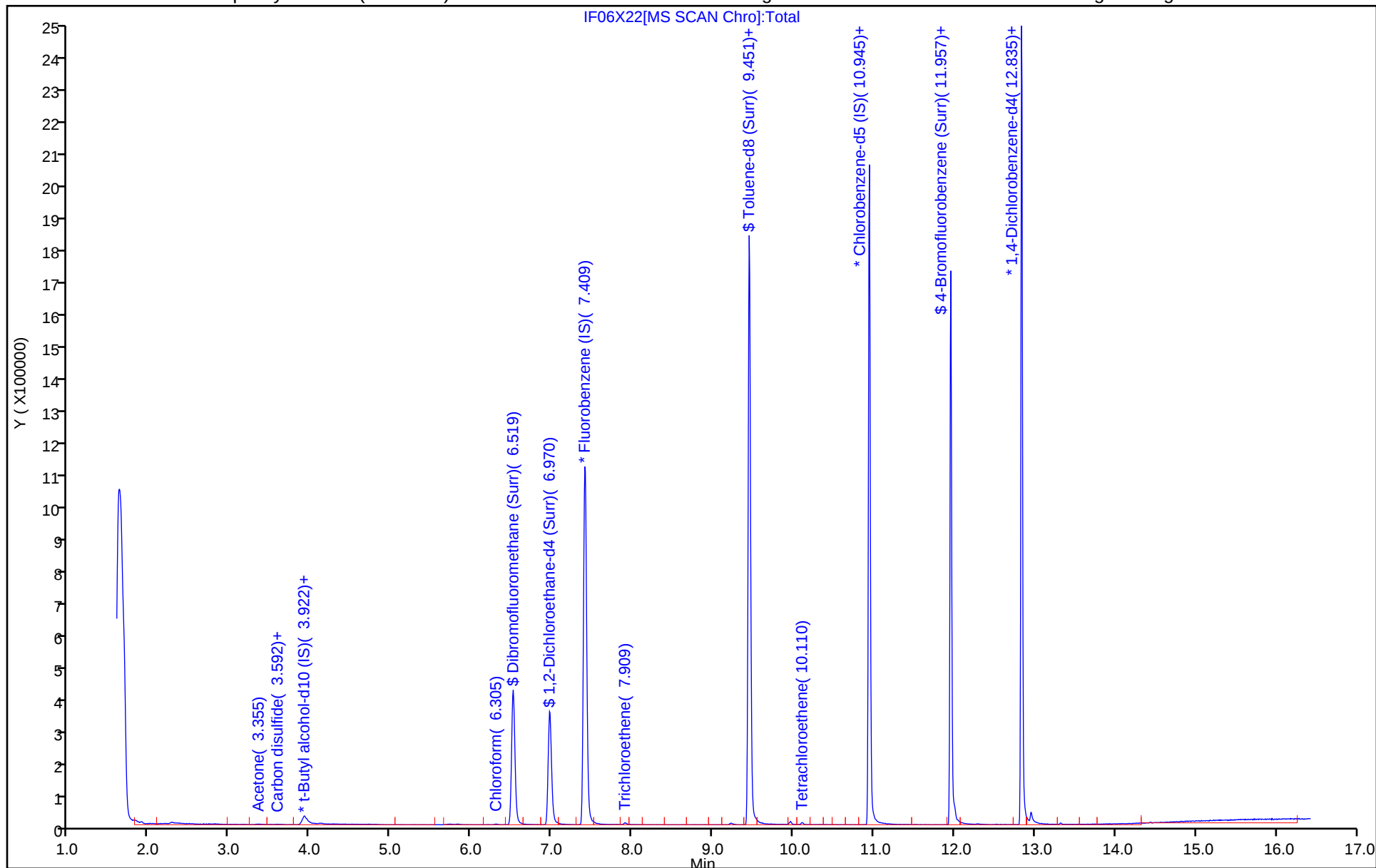
ALS Bottle#: 22

Method: 8260 25ml HP31

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\19930\20240206-105725.b\IF06X22.D
Lims ID: 410-159022-A-9
Client ID: HD-COD-SW-26-0/1-0
Sample Type: Client
Inject. Date: 07-Feb-2024 03:20:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0105725-023
Operator ID: gaw91131 Instrument ID: 19930
Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 07-Feb-2024 01:39:42 Calib Date: 23-Oct-2023 04:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1658

First Level Reviewer: N9NA

Date: 07-Feb-2024 15:50:02

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	9.41	94.07
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.10
\$ 78 Toluene-d8 (Surr)	10.0	10.2	101.81
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.52	95.20

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X22.D

Injection Date: 07-Feb-2024 03:20:30

Instrument ID: 19930

Lims ID: 410-159022-A-9

Lab Sample ID: 410-159022-9

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

Operator ID: gaw91131

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 25.000 mL

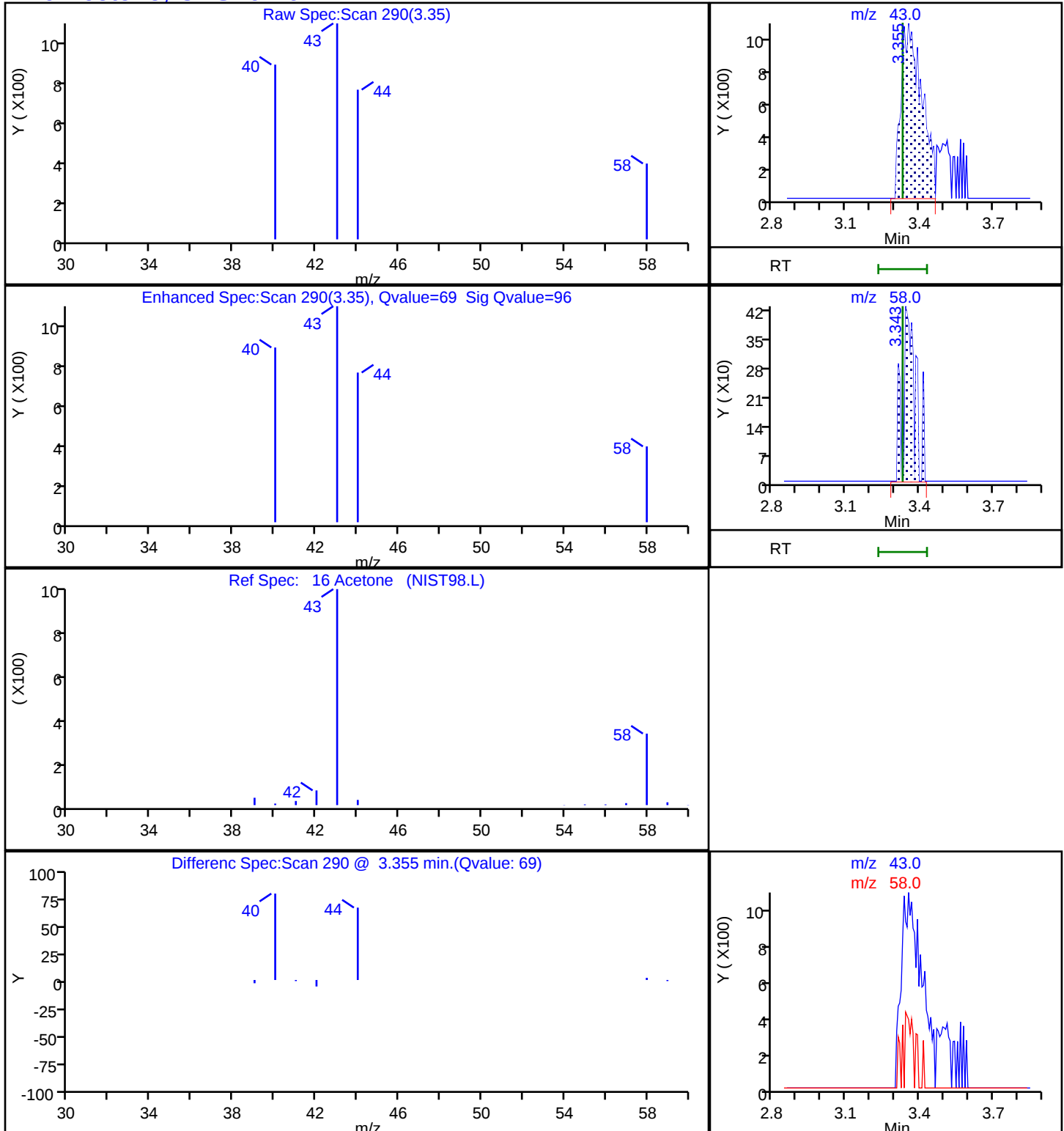
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

16 Acetone, CAS: 67-64-1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

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

Lab Sample ID: 410-159022-10

Matrix: Water

Lab File ID: IF06X23.D

Analysis Method: 8260D

Date Collected: 01/29/2024 11:20

Sample wt/vol: 25 (mL)

Date Analyzed: 02/07/2024 03:41

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.: 470708

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	[^] c *+ cn	0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.0	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND	[^] c cn	0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
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.: 410-159022-1

SDG No. :

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

Lab Sample ID: 410-159022-10

Matrix: Water

Lab File ID: IF06X23.D

Analysis Method: 8260D

Date Collected: 01/29/2024 11:20

Sample wt/vol: 25 (mL)

Date Analyzed: 02/07/2024 03:41

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.: 470708

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)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X23.D
 Lims ID: 410-159022-A-10
 Client ID: HD-COD-SW-27-0/1-0
 Sample Type: Client
 Inject. Date: 07-Feb-2024 03:41:30 ALS Bottle#: 23 Worklist Smp#: 24
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105725-024
 Operator ID: gaw91131 Instrument ID: 19930
 Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-Feb-2024 07:15:04 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1688

First Level Reviewer: N9NA

Date: 08-Feb-2024 07:19:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.014				ND	
5 Vinyl chloride	62		2.117				ND	
7 Bromomethane	94		2.446				ND	
8 Chloroethane	64		2.513				ND	
15 1,1-Dichloroethene	96		3.306				ND	
16 Acetone	43	3.361	3.330	0.031	98	5838	1.04	
20 Carbon disulfide	76	3.598	3.593	0.005	94	4198	0.0419	
25 Methylene Chloride	84		3.922				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.928	3.940	-0.012	27	123645	50.0	
29 Methyl tert-butyl ether	73		4.306				ND	
30 trans-1,2-Dichloroethene	96		4.318				ND	
32 1,1-Dichloroethane	63		4.976				ND	
38 2-Butanone (MEK)	43		5.787				ND	
39 cis-1,2-Dichloroethene	96	5.824	5.812	0.012	74	1843	0.0394	a
46 Chlorobromomethane	128		6.147				ND	
48 Chloroform	83	6.311	6.299	0.012	84	2284	0.0284	
\$ 49 Dibromofluoromethane (Surr)	113	6.519	6.519	0.000	94	382403	9.45	
50 1,1,1-Trichloroethane	97		6.525				ND	
54 Carbon tetrachloride	117		6.738				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.970	6.970	0.000	63	83757	10.5	
57 Benzene	78		7.000				ND	
58 1,2-Dichloroethane	62		7.080				ND	
* 61 Fluorobenzene (IS)	96	7.409	7.409	0.000	99	1535853	10.0	
64 Trichloroethene	95	7.909	7.897	0.012	94	3565	0.0744	
66 1,2-Dichloropropane	63		8.220				ND	
71 Dichlorobromomethane	83		8.573				ND	
76 cis-1,3-Dichloropropene	75		9.134				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.311				ND	
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	94	1528564	10.2	
79 Toluene	92	9.530	9.530	0.000	98	3479	0.0315	
97 trans-1,3-Dichloropropene	75		9.805				ND	
100 1,1,2-Trichloroethane	97		10.006				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.109	10.097	0.012	88	2361	0.0413	
103 2-Hexanone	43		10.231				ND	
105 Chlorodibromomethane	129		10.396				ND	
106 Ethylene Dibromide	107		10.506				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.945	10.945	0.000	86	1168092	10.0	
109 Chlorobenzene	112		10.969				ND	
111 1,1,1,2-Tetrachloroethane	131		11.054				ND	
112 Ethylbenzene	91		11.061				ND	
113 m-Xylene & p-Xylene	106		11.176				ND	7
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.506				ND	
115 Styrene	104		11.524				ND	
116 Bromoform	173		11.682				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.957	11.957	0.000	92	539634	9.56	
121 1,1,2,2-Tetrachloroethane	83		12.054				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.834	12.835	-0.001	95	640202	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-Feb-2024 07:19:13

Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X23.D

Injection Date: 07-Feb-2024 03:41:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-159022-A-10

Lab Sample ID: 410-159022-10

Worklist Smp#: 24

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

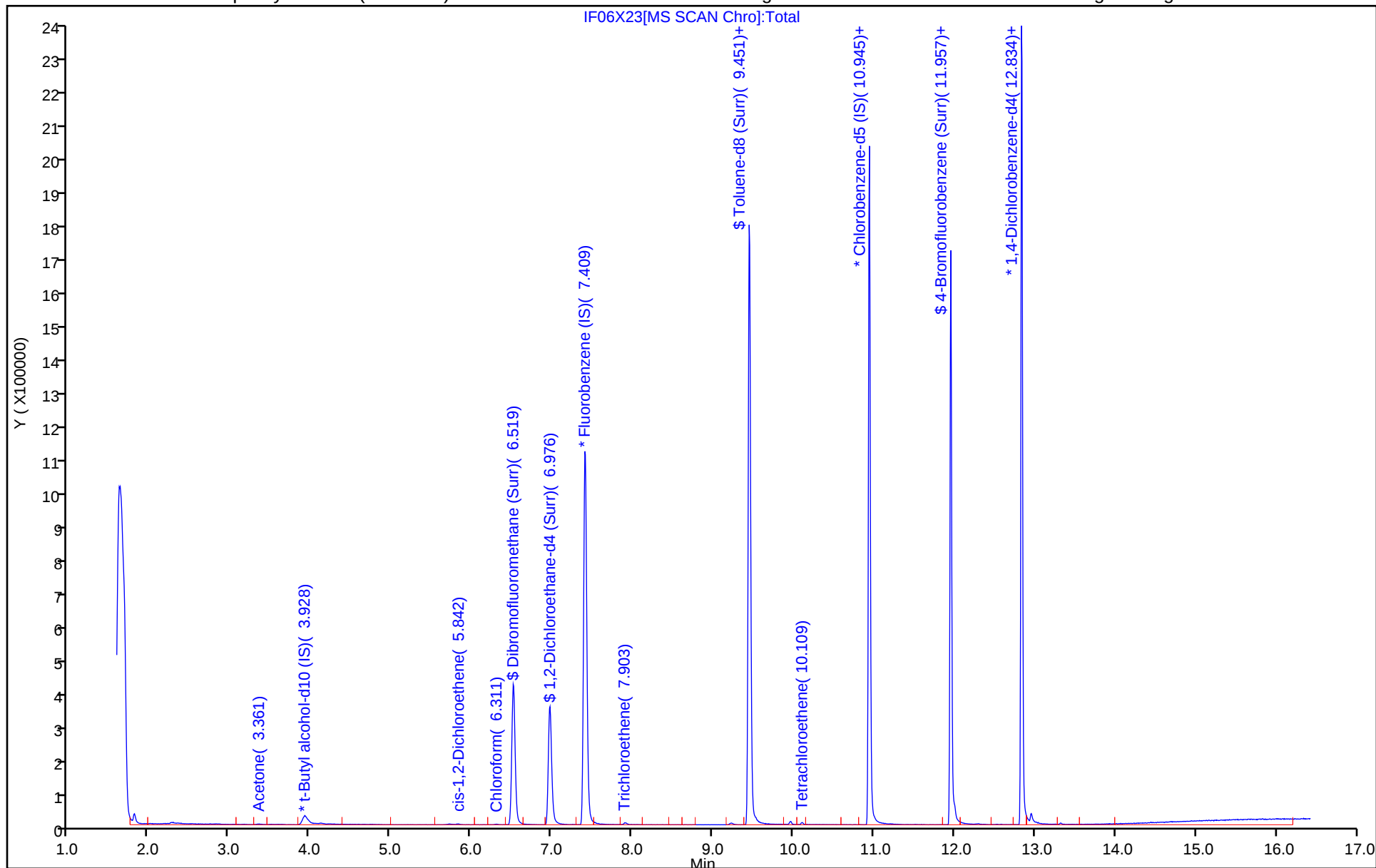
ALS Bottle#: 23

Method: 8260 25ml HP31

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\19930\20240206-105725.b\IF06X23.D
Lims ID: 410-159022-A-10
Client ID: HD-COD-SW-27-0/1-0
Sample Type: Client
Inject. Date: 07-Feb-2024 03:41:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0105725-024
Operator ID: gaw91131 Instrument ID: 19930
Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 08-Feb-2024 07:15:04 Calib Date: 23-Oct-2023 04:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1688

First Level Reviewer: N9NA

Date: 08-Feb-2024 07:19:12

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	9.45	94.51
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.49
\$ 78 Toluene-d8 (Surr)	10.0	10.2	102.47
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.56	95.60

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X23.D

Injection Date: 07-Feb-2024 03:41:30

Instrument ID: 19930

Lims ID: 410-159022-A-10

Lab Sample ID: 410-159022-10

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

Operator ID: gaw91131

ALS Bottle#: 23

Worklist Smp#: 24

Purge Vol: 25.000 mL

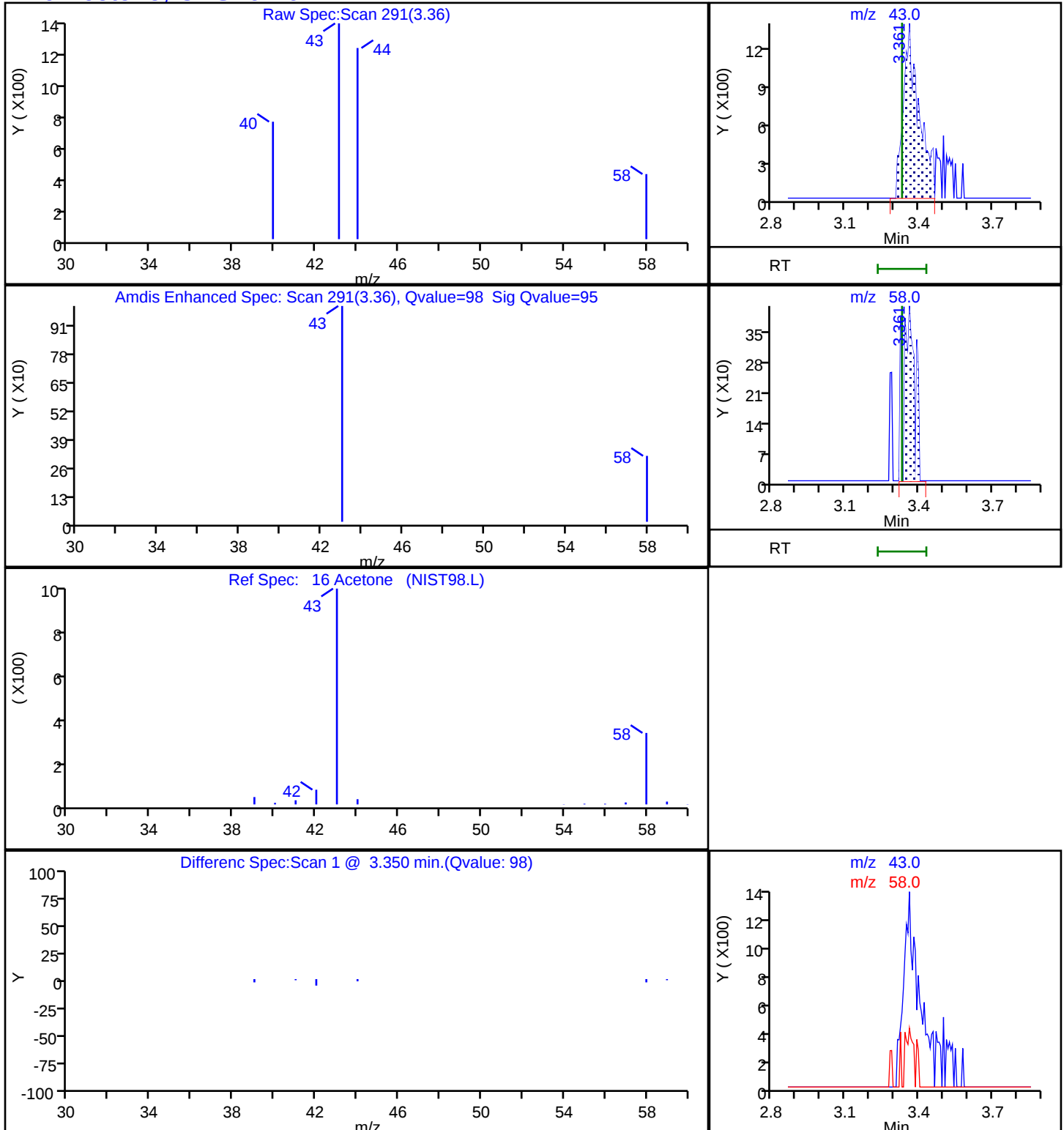
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

16 Acetone, CAS: 67-64-1

Eurofins Lancaster Laboratories Environment Testing, LLC

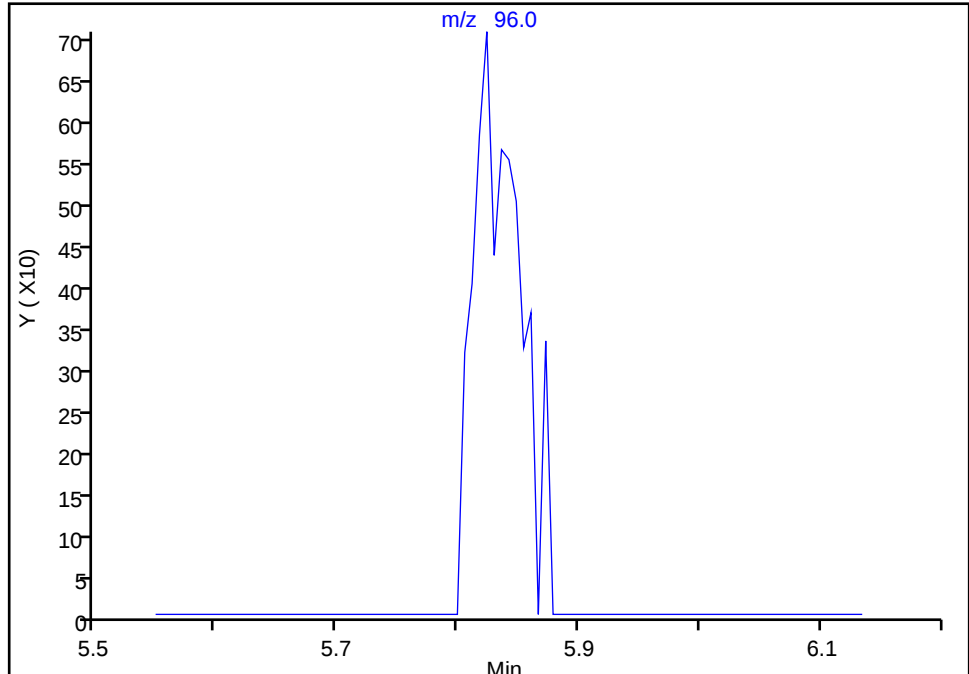
Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X23.D
Injection Date: 07-Feb-2024 03:41:30 Instrument ID: 19930
Lims ID: 410-159022-A-10 Lab Sample ID: 410-159022-10
Client ID: HD-COD-SW-27-0/1-0
Operator ID: gaw91131 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

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

Signal: 1

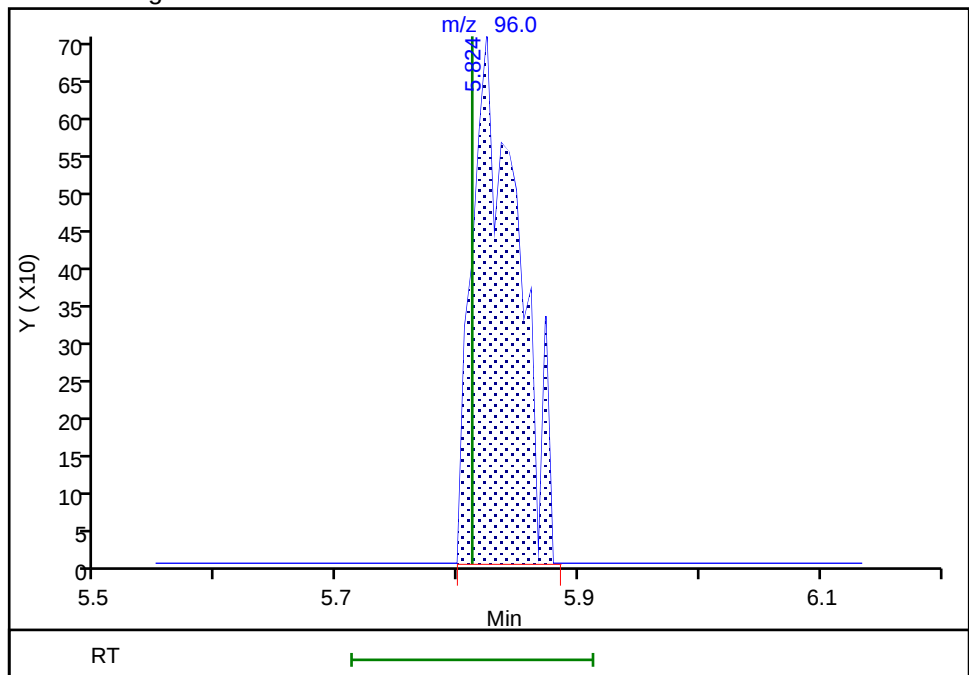
Not Detected
Expected RT: 5.81

Processing Integration Results



RT: 5.82
Area: 1843
Amount: 0.039403
Amount Units: ug/l

Manual Integration Results



Reviewer: FQ4L, 08-Feb-2024 07:14:43 07:00:00 (UTC)

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.: 410-159022-1

SDG No.:

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

Lab Sample ID: 410-159022-11

Matrix: Water

Lab File ID: IF06X24.D

Analysis Method: 8260D

Date Collected: 01/29/2024 12:40

Sample wt/vol: 25 (mL)

Date Analyzed: 02/07/2024 04:02

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.: 470708

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	[^] c *+ cn	0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.0	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND	[^] c cn	0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
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.: 410-159022-1

SDG No.:

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

Lab Sample ID: 410-159022-11

Matrix: Water

Lab File ID: IF06X24.D

Analysis Method: 8260D

Date Collected: 01/29/2024 12:40

Sample wt/vol: 25 (mL)

Date Analyzed: 02/07/2024 04:02

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.: 470708

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)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		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\19930\20240206-105725.b\IF06X24.D
 Lims ID: 410-159022-A-11
 Client ID: HD-COD-SW-28-0/1-0
 Sample Type: Client
 Inject. Date: 07-Feb-2024 04:02:30 ALS Bottle#: 24 Worklist Smp#: 25
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105725-025
 Operator ID: gaw91131 Instrument ID: 19930
 Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-Feb-2024 07:15:04 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1688

First Level Reviewer: N9NA

Date: 08-Feb-2024 07:19:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.014				ND	
5 Vinyl chloride	62		2.117				ND	
7 Bromomethane	94		2.446				ND	
8 Chloroethane	64		2.513				ND	
15 1,1-Dichloroethene	96		3.306				ND	
16 Acetone	43	3.361	3.330	0.031	66	5836	1.01	
20 Carbon disulfide	76	3.592	3.593	-0.001	94	3802	0.0385	
25 Methylene Chloride	84		3.922				ND	7
* 26 t-Butyl alcohol-d10 (IS)	65	3.934	3.940	-0.006	26	127227	50.0	
29 Methyl tert-butyl ether	73		4.306				ND	
30 trans-1,2-Dichloroethene	96		4.318				ND	
32 1,1-Dichloroethane	63		4.976				ND	
38 2-Butanone (MEK)	43		5.787				ND	
39 cis-1,2-Dichloroethene	96		5.812				ND	
46 Chlorobromomethane	128		6.147				ND	
48 Chloroform	83	6.318	6.299	0.019	86	5656	0.0713	
\$ 49 Dibromofluoromethane (Surr)	113	6.525	6.519	0.006	94	375895	9.41	
50 1,1,1-Trichloroethane	97		6.525				ND	
54 Carbon tetrachloride	117		6.738				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.976	6.970	0.006	63	82402	10.5	
57 Benzene	78		7.000				ND	
58 1,2-Dichloroethane	62		7.080				ND	
* 61 Fluorobenzene (IS)	96	7.415	7.409	0.006	99	1516626	10.0	
64 Trichloroethene	95	7.915	7.897	0.018	92	3216	0.0680	
66 1,2-Dichloropropane	63		8.220				ND	
71 Dichlorobromomethane	83		8.573				ND	
76 cis-1,3-Dichloropropene	75		9.134				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.311				ND	
\$ 78 Toluene-d8 (Surr)	98	9.457	9.451	0.006	93	1504197	10.1	
79 Toluene	92	9.536	9.530	0.006	98	3620	0.0329	
97 trans-1,3-Dichloropropene	75		9.805				ND	
100 1,1,2-Trichloroethane	97		10.006				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.116	10.097	0.019	92	5006	0.0879	
103 2-Hexanone	43		10.231				ND	
105 Chlorodibromomethane	129		10.396				ND	
106 Ethylene Dibromide	107		10.506				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.945	10.945	0.000	86	1163368	10.0	
109 Chlorobenzene	112		10.969				ND	
111 1,1,1,2-Tetrachloroethane	131		11.054				ND	
112 Ethylbenzene	91		11.061				ND	
113 m-Xylene & p-Xylene	106		11.176				ND	7
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.506				ND	
115 Styrene	104		11.524				ND	
116 Bromoform	173		11.682				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.957	11.957	0.000	92	542282	9.65	
121 1,1,2,2-Tetrachloroethane	83		12.054				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.835	12.835	0.000	95	634167	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-Feb-2024 07:19:53

Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X24.D

Injection Date: 07-Feb-2024 04:02:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-159022-A-11

Lab Sample ID: 410-159022-11

Worklist Smp#: 25

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

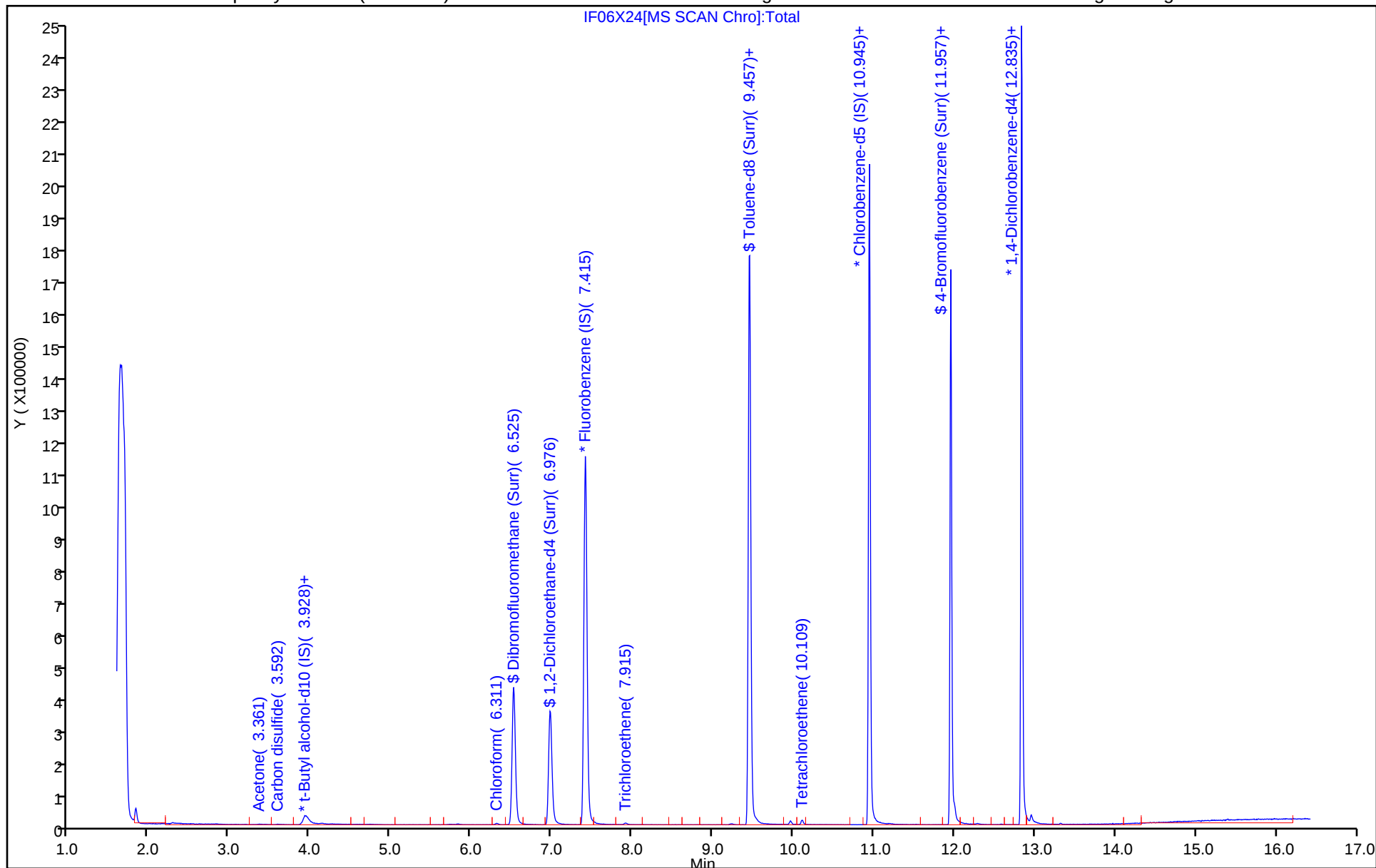
ALS Bottle#: 24

Method: 8260 25ml HP31

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

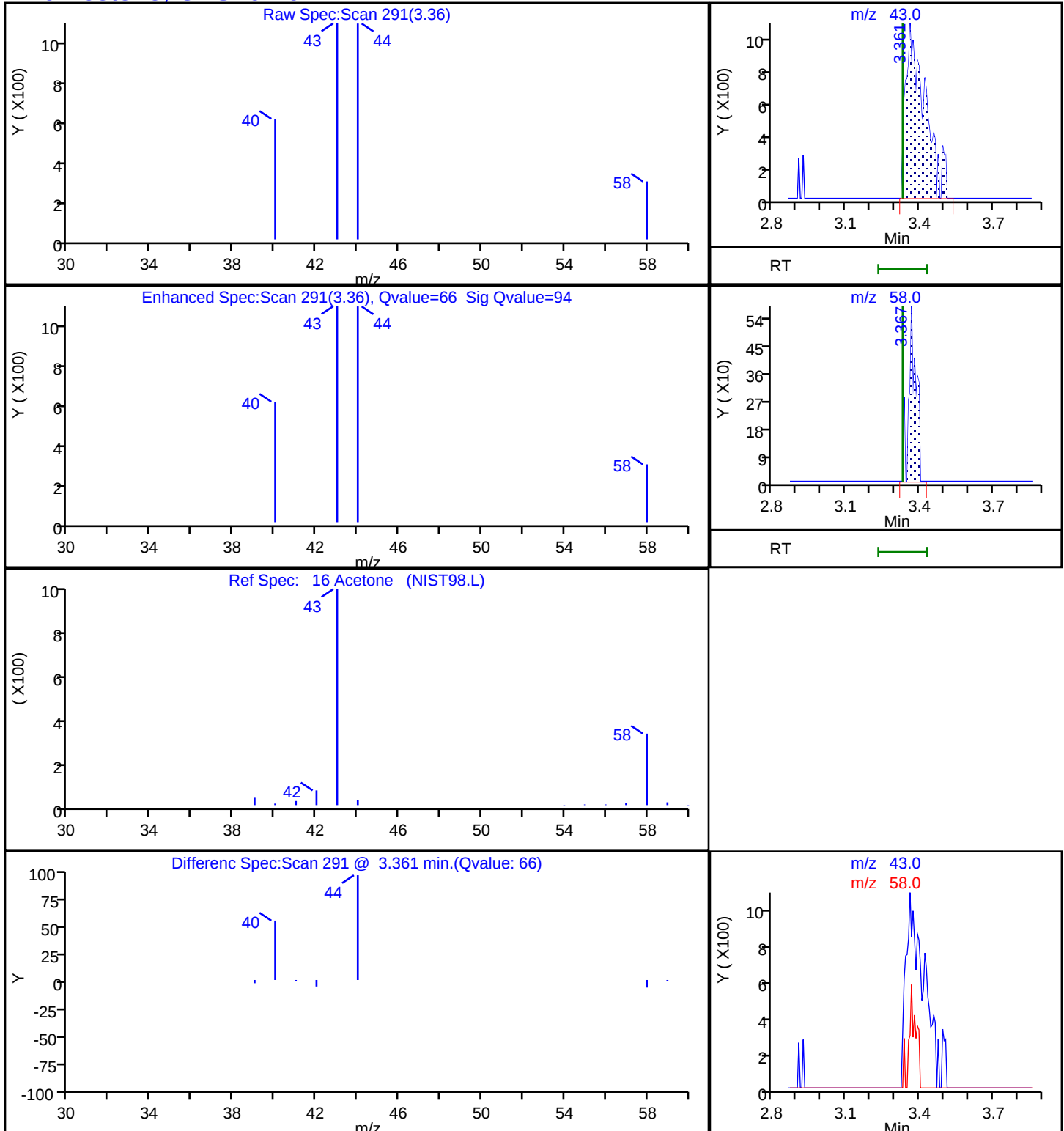
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Lims ID: 410-159022-A-11
Client ID: HD-COD-SW-28-0/1-0
Sample Type: Client
Inject. Date: 07-Feb-2024 04:02:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0105725-025
Operator ID: gaw91131 Instrument ID: 19930
Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 08-Feb-2024 07:15:04 Calib Date: 23-Oct-2023 04:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1688

First Level Reviewer: N9NA

Date: 08-Feb-2024 07:19:52

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	9.41	94.08
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.10
\$ 78 Toluene-d8 (Surr)	10.0	10.1	101.24
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.65	96.46

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X24.D
Injection Date: 07-Feb-2024 04:02:30 Instrument ID: 19930
Lims ID: 410-159022-A-11 Lab Sample ID: 410-159022-11
Client ID: HD-COD-SW-28-0/1-0
Operator ID: gaw91131 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

16 Acetone, CAS: 67-64-1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

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

Lab Sample ID: 410-159022-12

Matrix: Water

Lab File ID: IF06X25.D

Analysis Method: 8260D

Date Collected: 01/29/2024 09:08

Sample wt/vol: 25 (mL)

Date Analyzed: 02/07/2024 04:23

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.: 470708

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	[^] c *+ cn	0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.6	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	[^] c cn	0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-29-0/1-0 Lab Sample ID: 410-159022-12

Matrix: Water Lab File ID: IF06X25.D

Analysis Method: 8260D Date Collected: 01/29/2024 09:08

Sample wt/vol: 25 (mL) Date Analyzed: 02/07/2024 04:23

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.: 470708 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)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X25.D
 Lims ID: 410-159022-A-12
 Client ID: HD-COD-SW-29-0/1-0
 Sample Type: Client
 Inject. Date: 07-Feb-2024 04:23:30 ALS Bottle#: 25 Worklist Smp#: 26
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105725-026
 Operator ID: gaw91131 Instrument ID: 19930
 Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-Feb-2024 07:15:04 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1688

First Level Reviewer: N9NA

Date: 08-Feb-2024 07:20:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.014				ND	
5 Vinyl chloride	62		2.117				ND	
7 Bromomethane	94		2.446				ND	
8 Chloroethane	64		2.513				ND	
15 1,1-Dichloroethene	96		3.306				ND	
16 Acetone	43	3.343	3.330	0.013	99	15638	2.62	
20 Carbon disulfide	76	3.617	3.593	0.024	13	3480	0.0351	
25 Methylene Chloride	84		3.922				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.934	3.940	-0.006	27	131426	50.0	
29 Methyl tert-butyl ether	73		4.306				ND	
30 trans-1,2-Dichloroethene	96		4.318				ND	
32 1,1-Dichloroethane	63		4.976				ND	
38 2-Butanone (MEK)	43		5.787				ND	
39 cis-1,2-Dichloroethene	96		5.812				ND	
46 Chlorobromomethane	128		6.147				ND	
48 Chloroform	83	6.312	6.299	0.013	85	2224	0.0279	
\$ 49 Dibromofluoromethane (Surr)	113	6.519	6.519	0.000	94	379505	9.46	
50 1,1,1-Trichloroethane	97		6.525				ND	
54 Carbon tetrachloride	117		6.738				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.976	6.970	0.006	63	83220	10.6	
57 Benzene	78		7.000				ND	7
58 1,2-Dichloroethane	62		7.080				ND	
* 61 Fluorobenzene (IS)	96	7.415	7.409	0.006	99	1522640	10.0	
64 Trichloroethene	95	7.915	7.897	0.018	92	3347	0.0704	
66 1,2-Dichloropropane	63		8.220				ND	
71 Dichlorobromomethane	83		8.573				ND	
76 cis-1,3-Dichloropropene	75		9.134				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.311				ND	7
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	93	1506331	10.2	
79 Toluene	92	9.530	9.530	0.000	95	3280	0.0300	
97 trans-1,3-Dichloropropene	75		9.805				ND	
100 1,1,2-Trichloroethane	97		10.006				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.110	10.097	0.013	93	5235	0.0923	
103 2-Hexanone	43		10.231				ND	
105 Chlorodibromomethane	129		10.396				ND	
106 Ethylene Dibromide	107		10.506				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.945	10.945	0.000	86	1158860	10.0	
109 Chlorobenzene	112		10.969				ND	
111 1,1,1,2-Tetrachloroethane	131		11.054				ND	
112 Ethylbenzene	91		11.061				ND	
113 m-Xylene & p-Xylene	106		11.176				ND	7
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.506				ND	
115 Styrene	104		11.524				ND	
116 Bromoform	173		11.682				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.957	11.957	0.000	93	532992	9.52	
121 1,1,2,2-Tetrachloroethane	83		12.054				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.841	12.835	0.006	95	634244	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-Feb-2024 07:20:24

Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X25.D

Injection Date: 07-Feb-2024 04:23:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-159022-A-12

Lab Sample ID: 410-159022-12

Worklist Smp#: 26

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

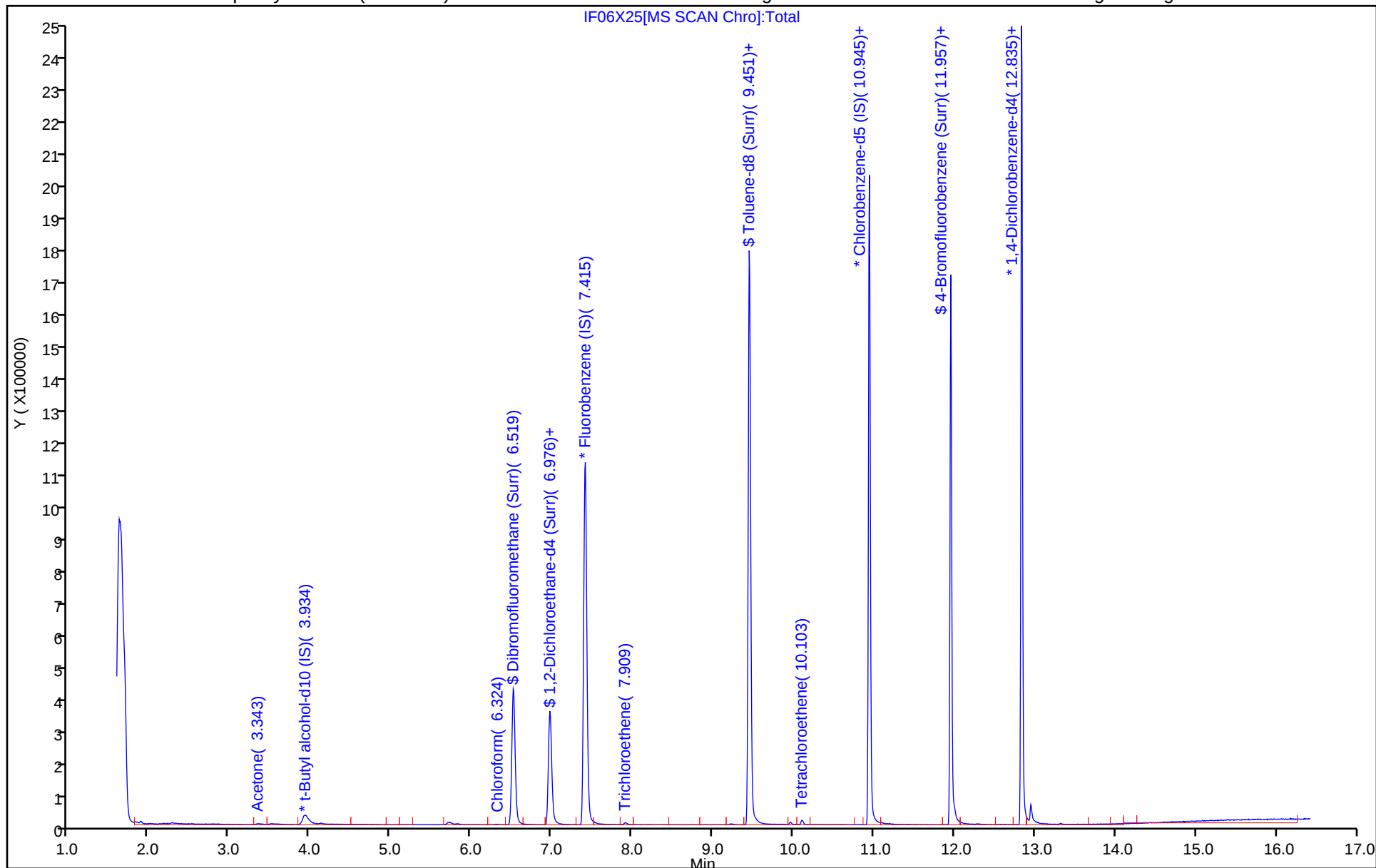
ALS Bottle#: 25

Method: 8260 25ml HP31

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\19930\20240206-105725.b\IF06X25.D
Lims ID: 410-159022-A-12
Client ID: HD-COD-SW-29-0/1-0
Sample Type: Client
Inject. Date: 07-Feb-2024 04:23:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0105725-026
Operator ID: gaw91131 Instrument ID: 19930
Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 08-Feb-2024 07:15:04 Calib Date: 23-Oct-2023 04:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1688

First Level Reviewer: N9NA

Date: 08-Feb-2024 07:20:24

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	9.46	94.61
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.73
\$ 78 Toluene-d8 (Surr)	10.0	10.2	101.78
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.52	95.18

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X25.D

Injection Date: 07-Feb-2024 04:23:30

Instrument ID: 19930

Lims ID: 410-159022-A-12

Lab Sample ID: 410-159022-12

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

Operator ID: gaw91131

ALS Bottle#: 25

Worklist Smp#: 26

Purge Vol: 25.000 mL

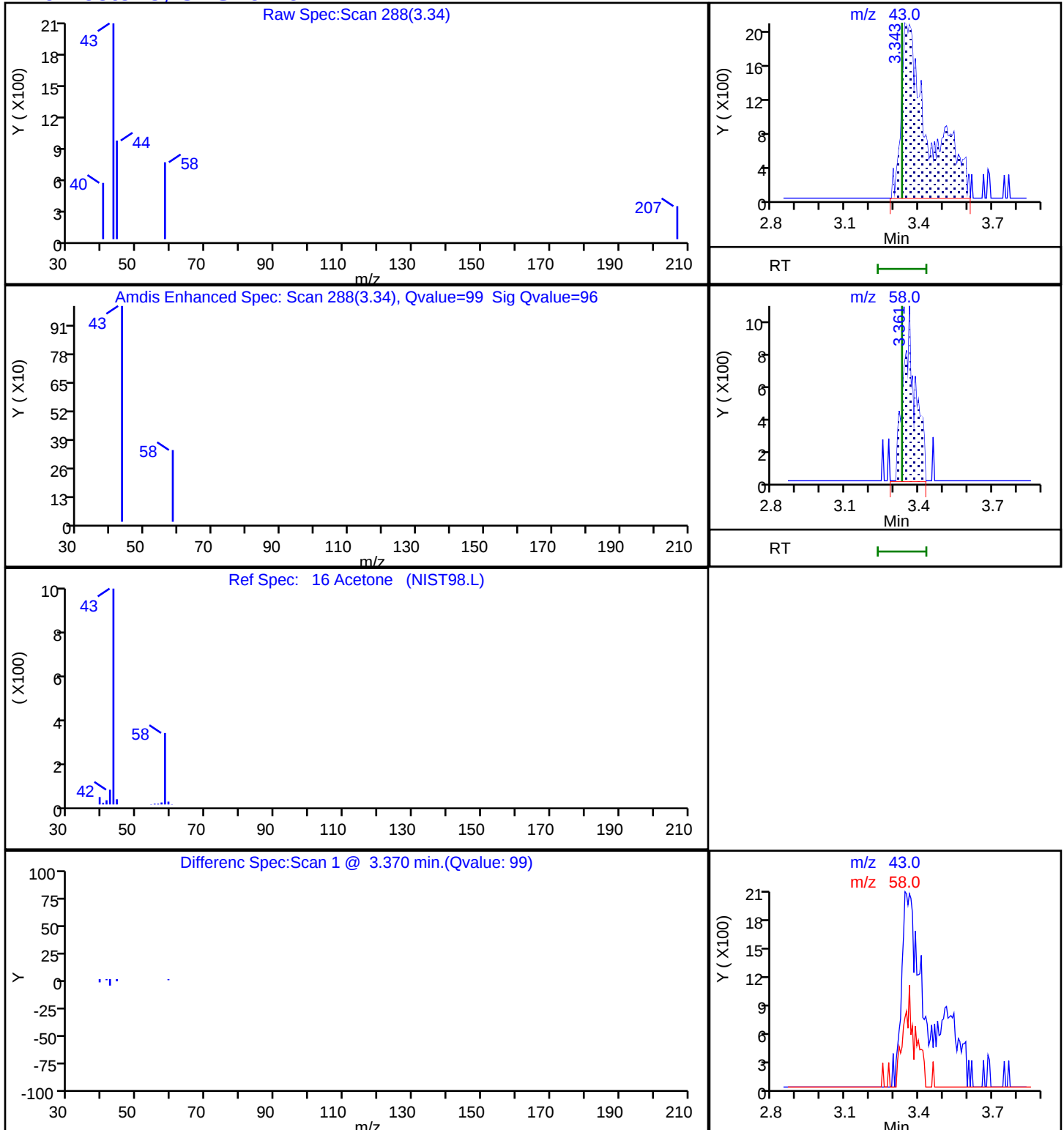
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

16 Acetone, CAS: 67-64-1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

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

Lab Sample ID: 410-159022-13

Matrix: Water

Lab File ID: IF06X28.D

Analysis Method: 8260D

Date Collected: 01/29/2024 12:00

Sample wt/vol: 25 (mL)

Date Analyzed: 02/07/2024 05:26

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.: 470708

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	3.0		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND	^c *+ cn	0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	0.85		0.50	0.10
75-35-4	1,1-Dichloroethene	0.31	J	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	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	^c cn	0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.10	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	4.0		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
108-88-3	Toluene	ND		0.50	0.080
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.: 410-159022-1

SDG No.:

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

Lab Sample ID: 410-159022-13

Matrix: Water

Lab File ID: IF06X28.D

Analysis Method: 8260D

Date Collected: 01/29/2024 12:00

Sample wt/vol: 25 (mL)

Date Analyzed: 02/07/2024 05:26

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.: 470708

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	2.4		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)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		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\19930\20240206-105725.b\IF06X28.D
 Lims ID: 410-159022-A-13
 Client ID: HD-QC1-0/1-1
 Sample Type: Client
 Inject. Date: 07-Feb-2024 05:26:30 ALS Bottle#: 28 Worklist Smp#: 29
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105725-029
 Operator ID: gaw91131 Instrument ID: 19930
 Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-Feb-2024 07:23:05 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1688

First Level Reviewer: N9NA

Date: 08-Feb-2024 07:23:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.014				ND	
5 Vinyl chloride	62		2.117				ND	7
7 Bromomethane	94		2.446				ND	
8 Chloroethane	64		2.513				ND	
15 1,1-Dichloroethene	96	3.306	3.306	0.000	97	11133	0.3095	
16 Acetone	43	3.361	3.330	0.031	87	6203	1.12	
20 Carbon disulfide	76		3.593				ND	7
25 Methylene Chloride	84		3.922				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.928	3.940	-0.012	27	122220	50.0	
29 Methyl tert-butyl ether	73		4.306				ND	7
30 trans-1,2-Dichloroethene	96		4.318				ND	7
32 1,1-Dichloroethane	63	4.976	4.976	0.000	96	62585	0.8474	
38 2-Butanone (MEK)	43		5.787				ND	
39 cis-1,2-Dichloroethene	96	5.818	5.812	0.006	79	188508	3.97	
46 Chlorobromomethane	128		6.147				ND	
48 Chloroform	83	6.312	6.299	0.013	91	8534	0.1047	
\$ 49 Dibromofluoromethane (Surr)	113	6.519	6.519	0.000	94	388499	9.46	
50 1,1,1-Trichloroethane	97	6.531	6.525	0.006	97	225823	2.98	
54 Carbon tetrachloride	117		6.738				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.970	6.970	0.000	63	84757	10.5	
57 Benzene	78		7.000				ND	
58 1,2-Dichloroethane	62		7.080				ND	
* 61 Fluorobenzene (IS)	96	7.409	7.409	0.000	99	1559006	10.0	
64 Trichloroethene	95	7.897	7.897	0.000	98	116730	2.40	
66 1,2-Dichloropropane	63		8.220				ND	
71 Dichlorobromomethane	83		8.573				ND	
76 cis-1,3-Dichloropropene	75		9.134				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.311				ND	7
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	94	1545368	10.0	
79 Toluene	92		9.530				ND	7
97 trans-1,3-Dichloropropene	75		9.805				ND	
100 1,1,2-Trichloroethane	97		10.006				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.097	10.097	0.000	98	2858028	48.4	E
103 2-Hexanone	43		10.231				ND	
105 Chlorodibromomethane	129		10.396				ND	
106 Ethylene Dibromide	107		10.506				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.945	10.945	0.000	86	1206578	10.0	
109 Chlorobenzene	112		10.969				ND	
111 1,1,1,2-Tetrachloroethane	131		11.054				ND	
112 Ethylbenzene	91		11.061				ND	
113 m-Xylene & p-Xylene	106		11.176				ND	
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.506				ND	
115 Styrene	104		11.524				ND	
116 Bromoform	173		11.682				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.957	11.957	0.000	92	555139	9.52	
121 1,1,2,2-Tetrachloroethane	83		12.054				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.835	12.835	0.000	95	647615	10.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-Feb-2024 07:23:06

Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X28.D

Injection Date: 07-Feb-2024 05:26:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-159022-A-13

Lab Sample ID: 410-159022-13

Worklist Smp#: 29

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

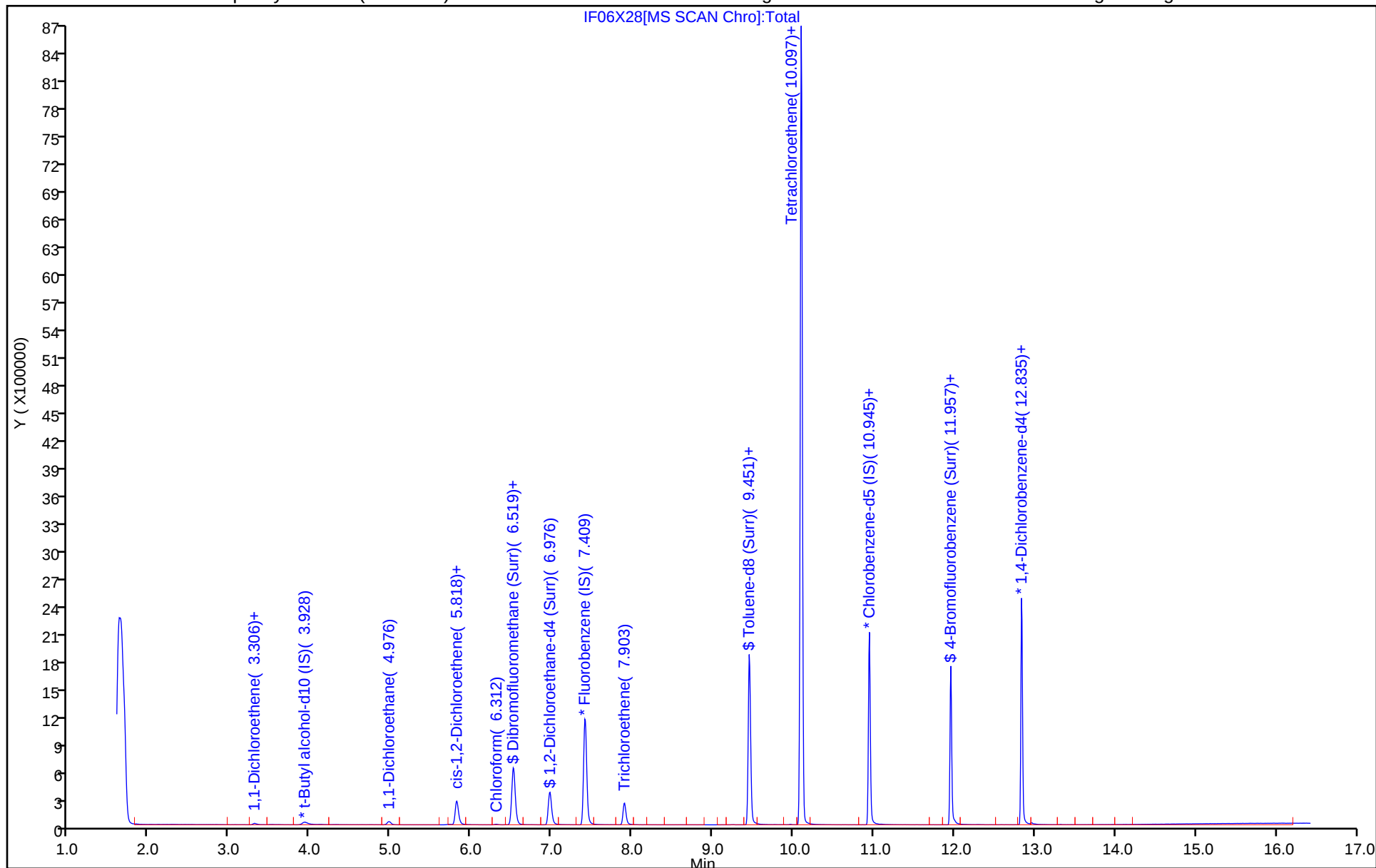
ALS Bottle#: 28

Method: 8260 25ml HP31

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\19930\20240206-105725.b\IF06X28.D
Lims ID: 410-159022-A-13
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 07-Feb-2024 05:26:30 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0105725-029
Operator ID: gaw91131 Instrument ID: 19930
Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 08-Feb-2024 07:23:05 Calib Date: 23-Oct-2023 04:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1688

First Level Reviewer: N9NA

Date: 08-Feb-2024 07:23:05

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	9.46	94.59
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.17
\$ 78 Toluene-d8 (Surr)	10.0	10.0	100.29
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.52	95.21

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X28.D

Injection Date: 07-Feb-2024 05:26:30

Instrument ID: 19930

Lims ID: 410-159022-A-13

Lab Sample ID: 410-159022-13

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

Operator ID: gaw91131

ALS Bottle#: 28

Worklist Smp#: 29

Purge Vol: 25.000 mL

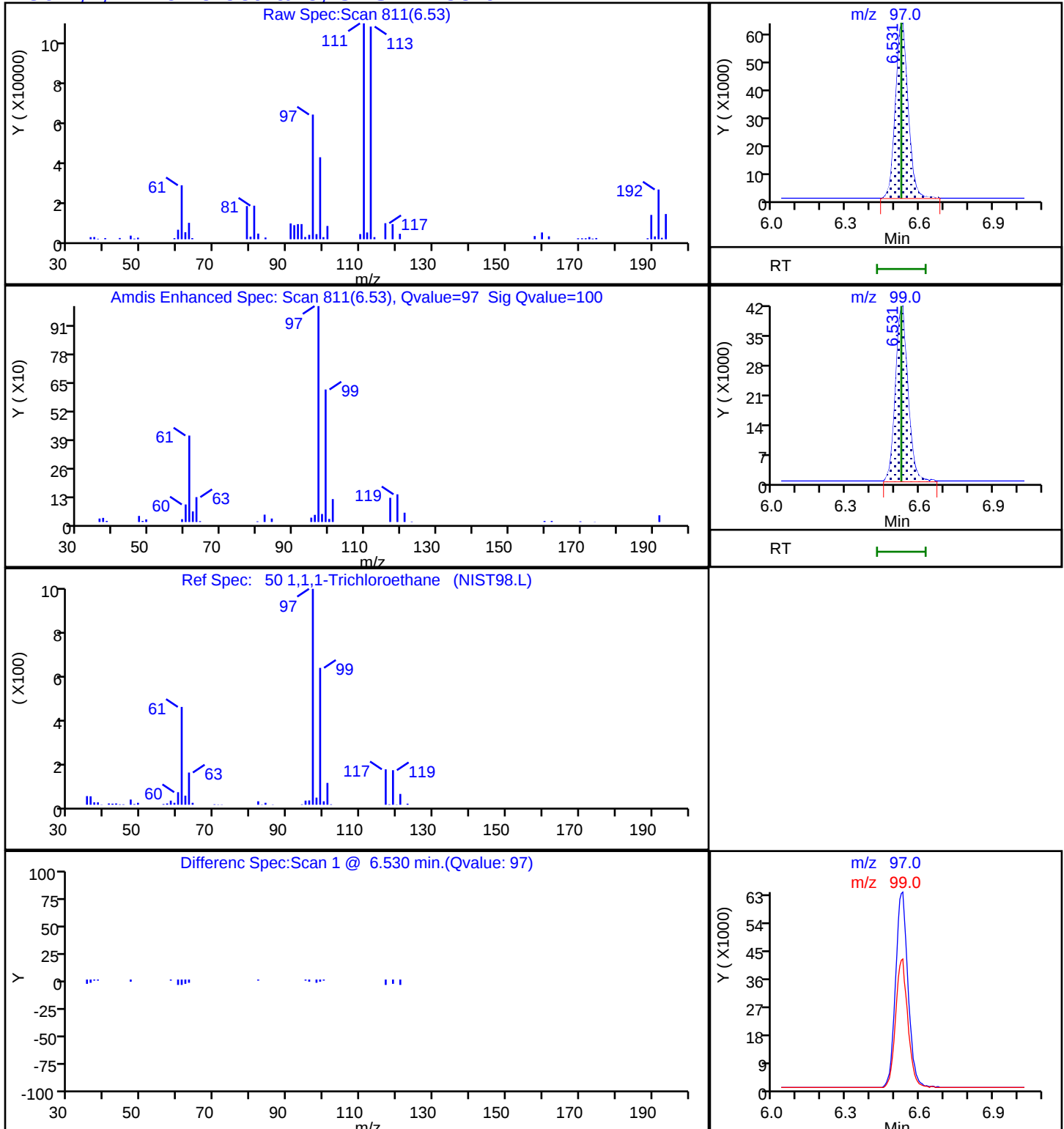
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

50 1,1,1-Trichloroethane, CAS: 71-55-6

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X28.D

Injection Date: 07-Feb-2024 05:26:30

Instrument ID: 19930

Lims ID: 410-159022-A-13

Lab Sample ID: 410-159022-13

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

Operator ID: gaw91131

ALS Bottle#: 28

Worklist Smp#: 29

Purge Vol: 25.000 mL

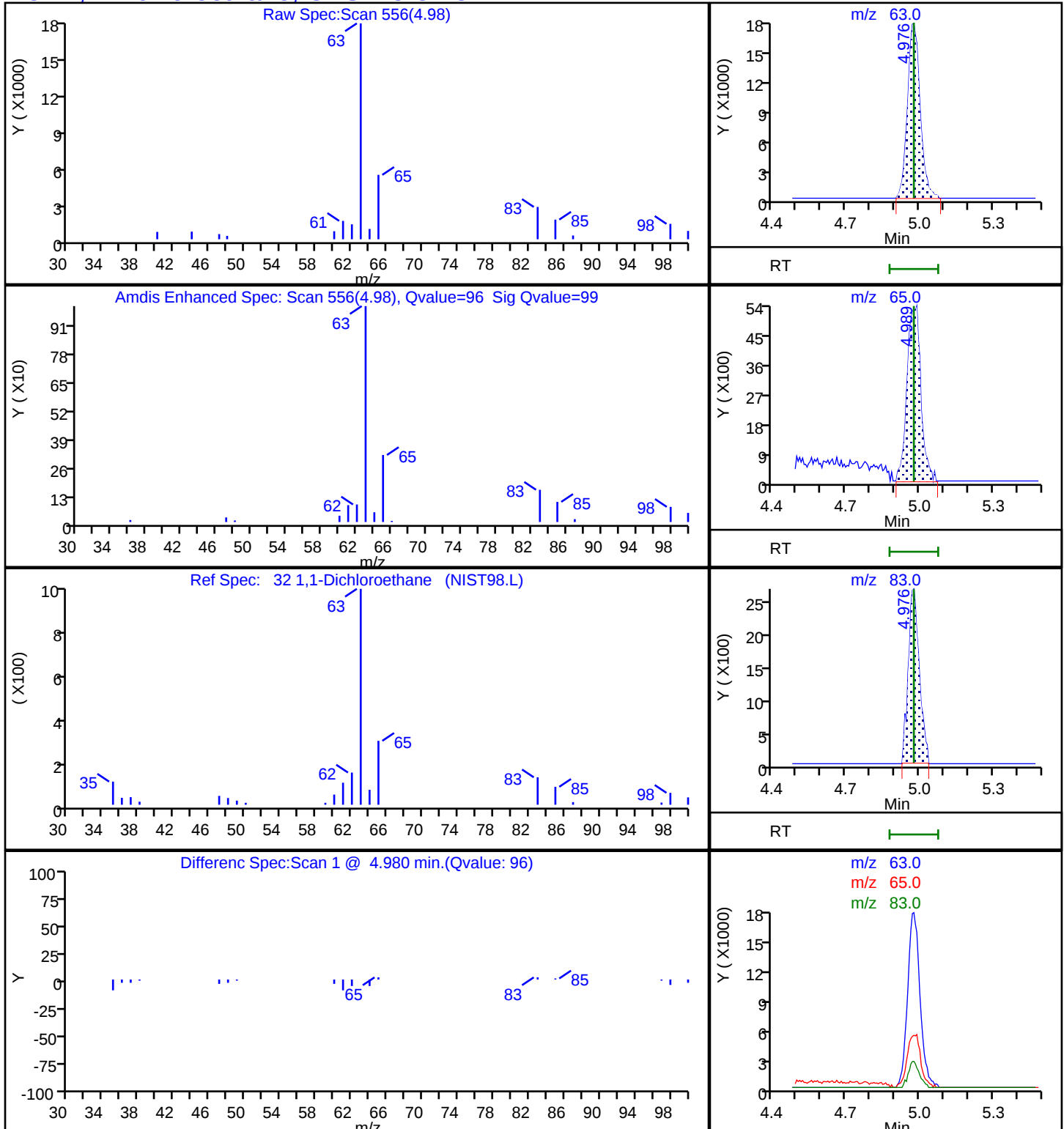
Dil. Factor: 1.0000

Method: 8260 25ml HP31

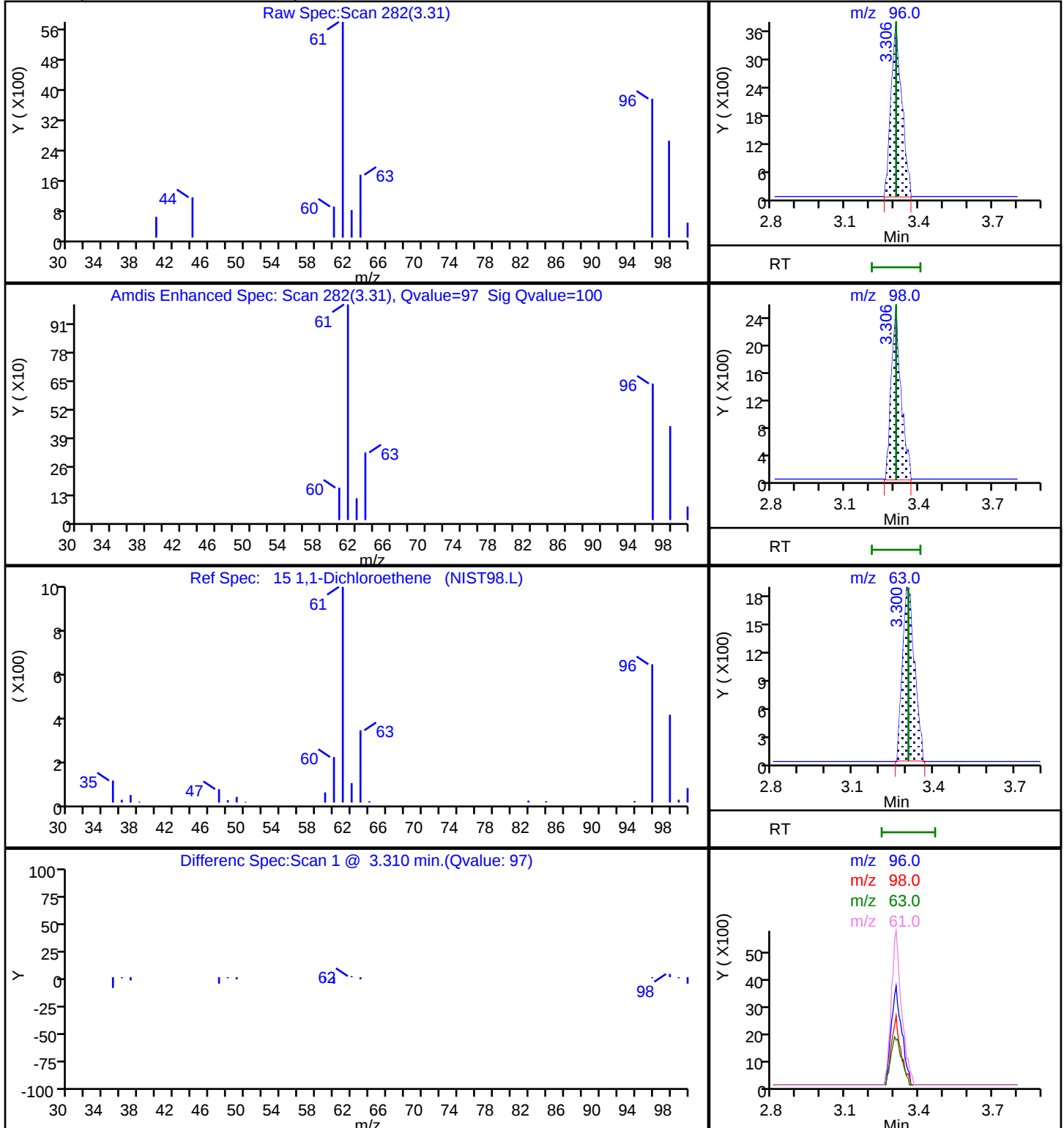
Limit Group: MSV - 8260C_D

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

MS Quad

32 1,1-Dichloroethane, CAS: 75-34-3

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X28.D
Injection Date: 07-Feb-2024 05:26:30 Instrument ID: 19930
Lims ID: 410-159022-A-13 Lab Sample ID: 410-159022-13
Client ID: HD-QC1-0/1-1
Operator ID: gaw91131 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

15 1,1-Dichloroethene, CAS: 75-35-4

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X28.D

Injection Date: 07-Feb-2024 05:26:30

Instrument ID: 19930

Lims ID: 410-159022-A-13

Lab Sample ID: 410-159022-13

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

Operator ID: gaw91131

ALS Bottle#: 28

Worklist Smp#: 29

Purge Vol: 25.000 mL

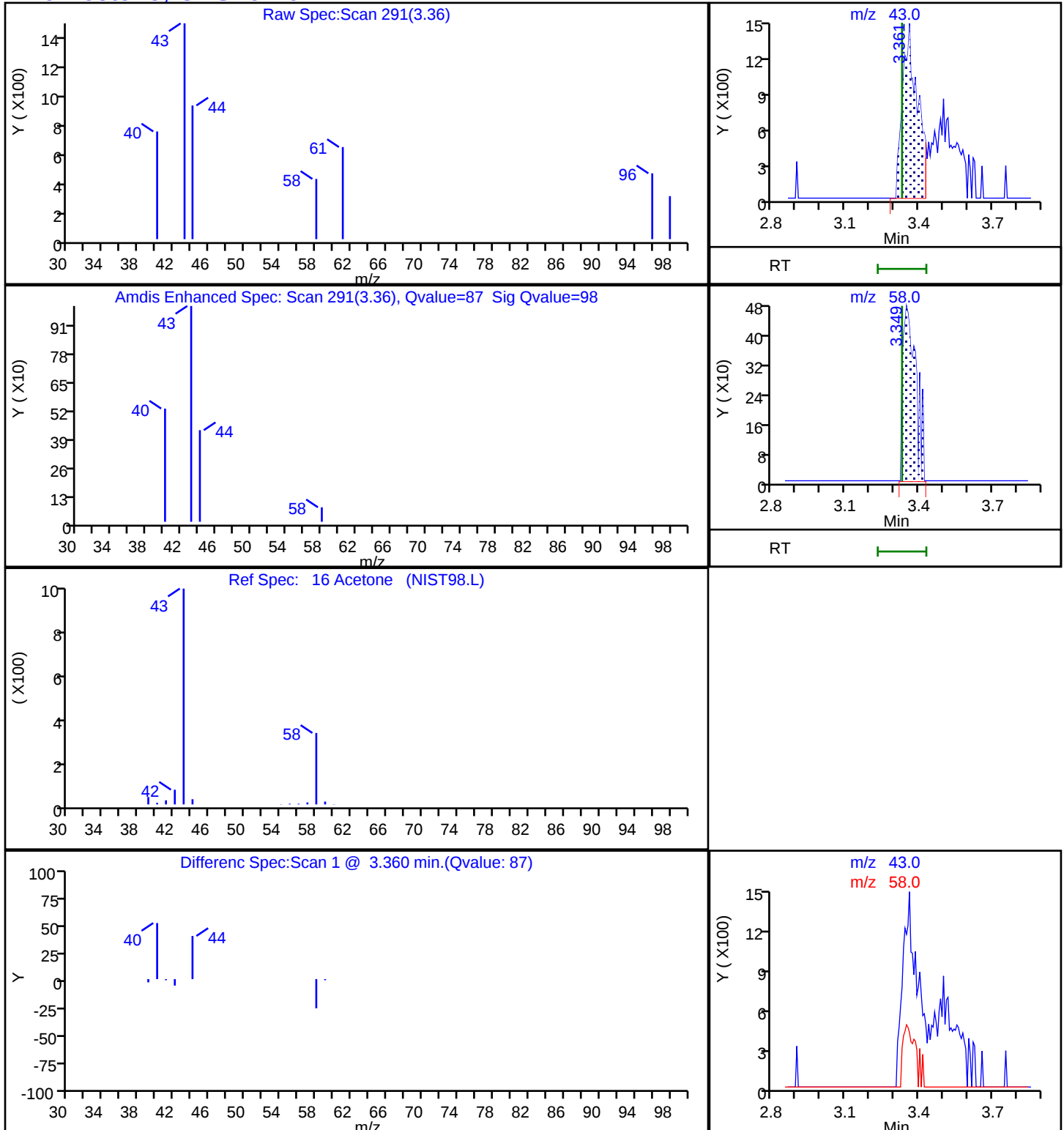
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

16 Acetone, CAS: 67-64-1

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X28.D

Injection Date: 07-Feb-2024 05:26:30

Instrument ID: 19930

Lims ID: 410-159022-A-13

Lab Sample ID: 410-159022-13

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

Operator ID: gaw91131

ALS Bottle#: 28

Worklist Smp#: 29

Purge Vol: 25.000 mL

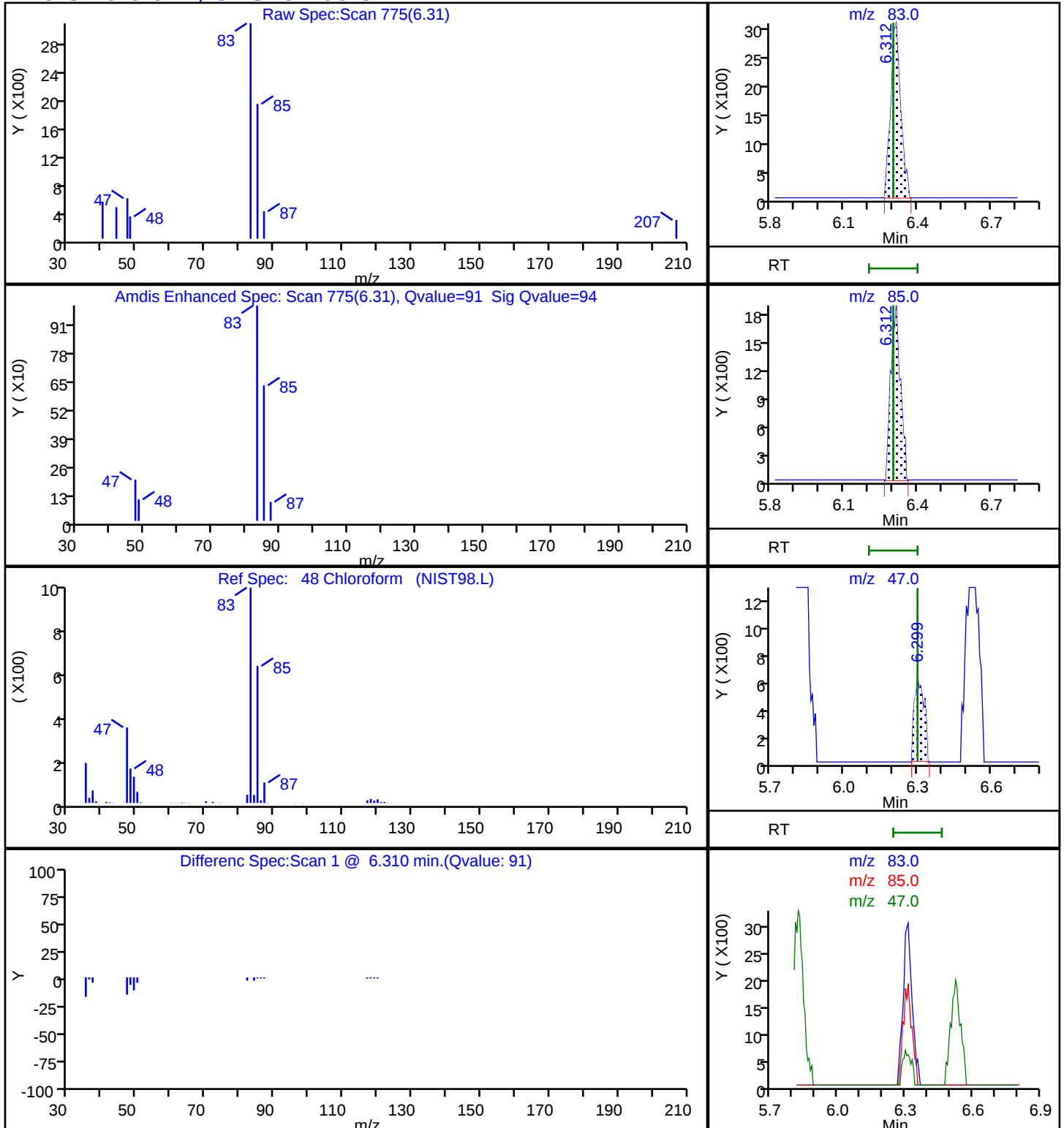
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

48 Chloroform, CAS: 67-66-3

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X28.D

Injection Date: 07-Feb-2024 05:26:30

Instrument ID: 19930

Lims ID: 410-159022-A-13

Lab Sample ID: 410-159022-13

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

Operator ID: gaw91131

ALS Bottle#: 28

Worklist Smp#: 29

Purge Vol: 25.000 mL

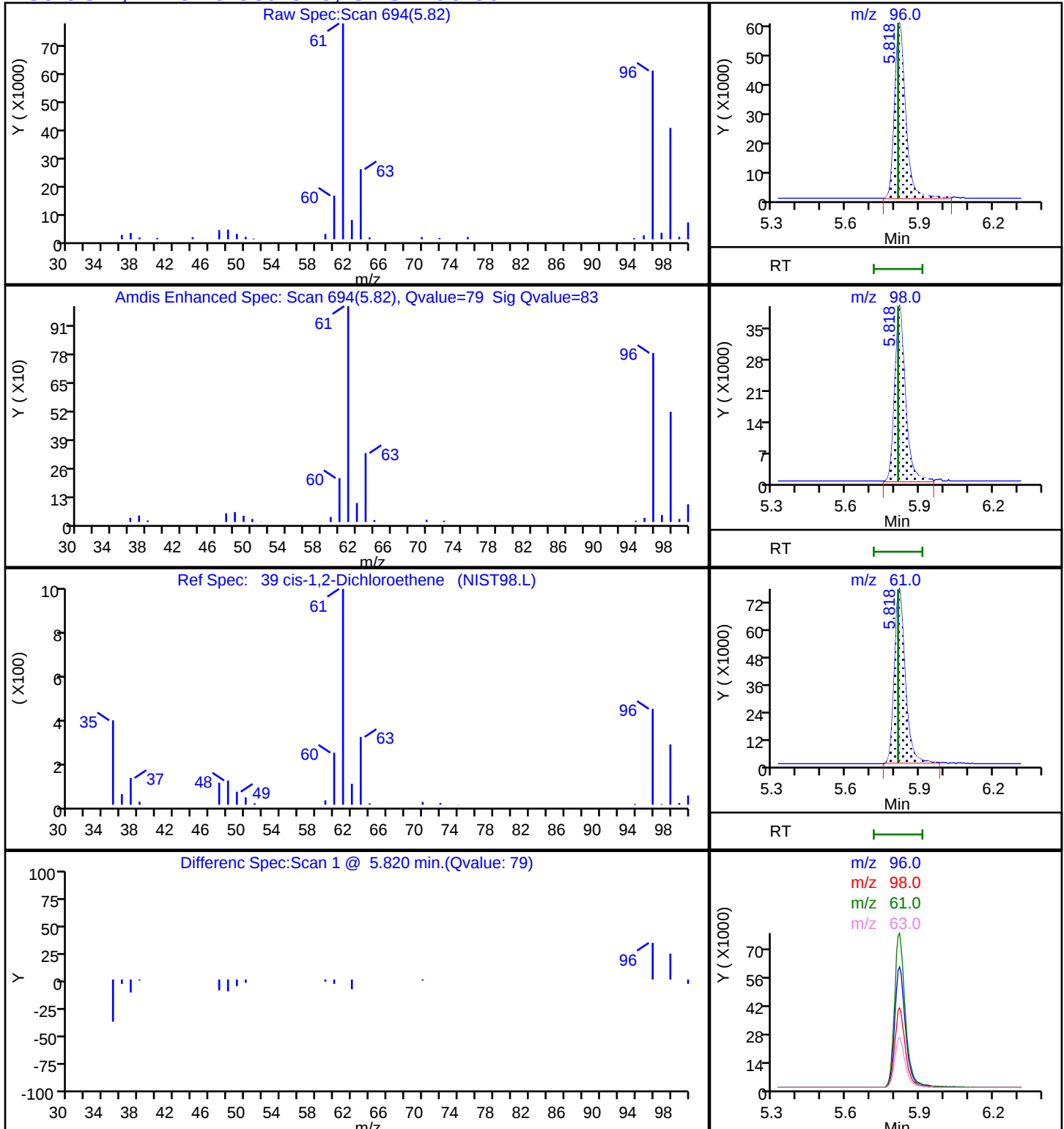
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

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

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X28.D

Injection Date: 07-Feb-2024 05:26:30

Instrument ID: 19930

Lims ID: 410-159022-A-13

Lab Sample ID: 410-159022-13

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

Operator ID: gaw91131

ALS Bottle#: 28

Worklist Smp#: 29

Purge Vol: 25.000 mL

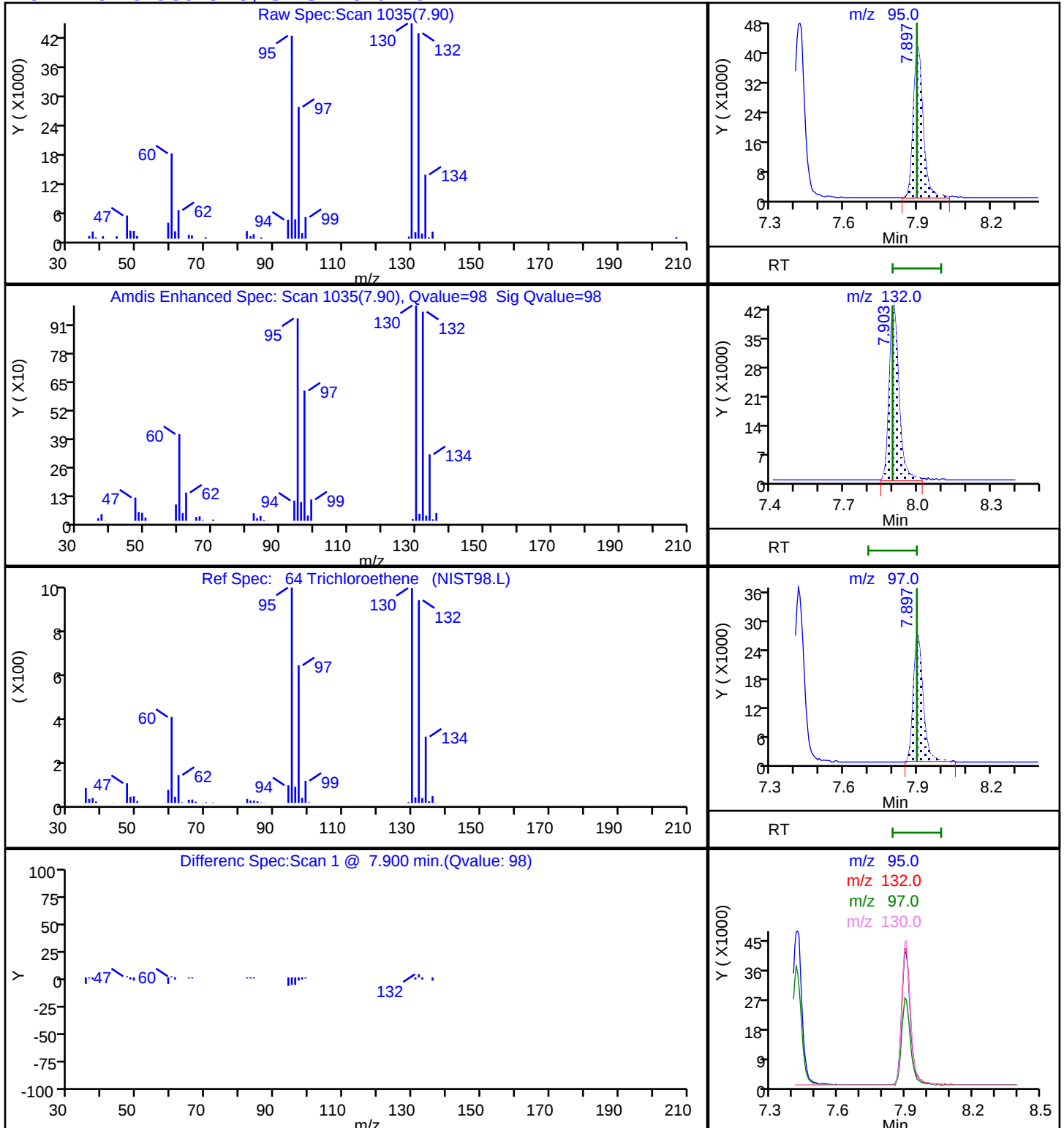
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

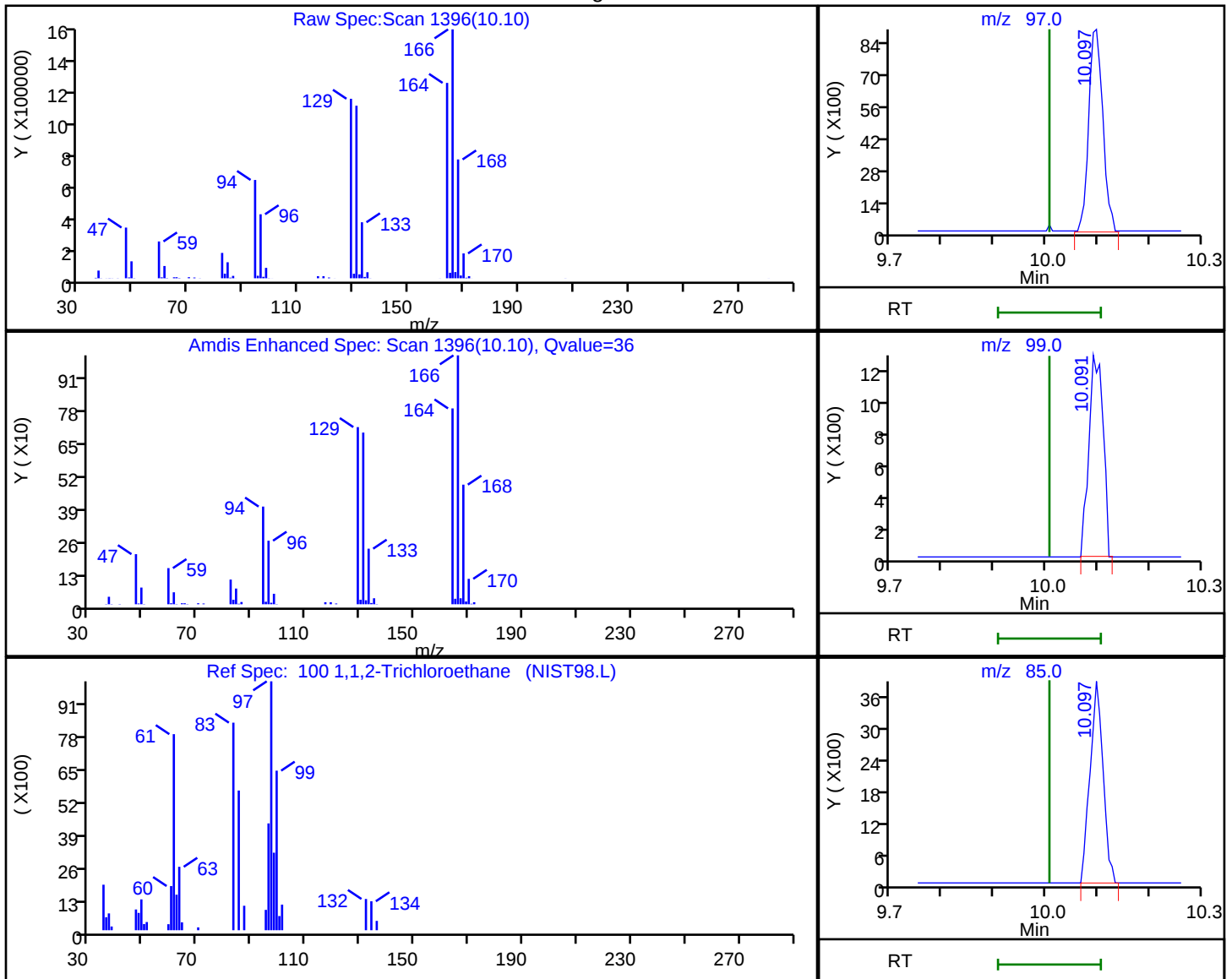
64 Trichloroethene, CAS: 79-01-6

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X28.D
Injection Date: 07-Feb-2024 05:26:30 Instrument ID: 19930
Lims ID: 410-159022-A-13 Lab Sample ID: 410-159022-13
Client ID: HD-QC1-0/1-1
Operator ID: gaw91131 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

100 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
10.10	97.00	16901	0.532457
10.09	99.00	2457	
10.10	85.00	6714	
10.10	83.00	50075	

Reviewer: N9NA, 08-Feb-2024 07:22:58 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1
Environment Testing, LLC
SDG No.:
Client Sample ID: HD-QC1-0/1-1 DL Lab Sample ID: 410-159022-13 DL
Matrix: Water Lab File ID: IF06X29.D
Analysis Method: 8260D Date Collected: 01/29/2024 12:00
Sample wt/vol: 25 (mL) Date Analyzed: 02/07/2024 05:47
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.: 470708 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	42		5.0	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	94		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X29.D
 Lims ID: 410-159022-B-13 DL
 Client ID: HD-QC1-0/1-1
 Sample Type: Client
 Inject. Date: 07-Feb-2024 05:47:30 ALS Bottle#: 29 Worklist Smp#: 30
 Purge Vol: 25.000 mL Dil. Factor: 10.0000
 Sample Info: 410-0105725-030
 Operator ID: gaw91131 Instrument ID: 19930
 Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 08-Feb-2024 07:24:09 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1688

First Level Reviewer: N9NA

Date: 08-Feb-2024 07:24:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.014				ND	
5 Vinyl chloride	62		2.117				ND	
7 Bromomethane	94		2.446				ND	
8 Chloroethane	64		2.513				ND	
15 1,1-Dichloroethene	96		3.306				ND	7
16 Acetone	43		3.330				ND	7
20 Carbon disulfide	76		3.593				ND	7
25 Methylene Chloride	84		3.922				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.928	3.940	-0.012	26	121667	50.0	
29 Methyl tert-butyl ether	73		4.306				ND	
30 trans-1,2-Dichloroethene	96		4.318				ND	
32 1,1-Dichloroethane	63	4.970	4.976	-0.006	90	5771	0.0787	a
38 2-Butanone (MEK)	43		5.787				ND	
39 cis-1,2-Dichloroethene	96	5.824	5.812	0.012	79	17176	0.3643	
46 Chlorobromomethane	128		6.147				ND	
48 Chloroform	83		6.299				ND	7
\$ 49 Dibromofluoromethane (Surr)	113	6.519	6.519	0.000	94	385081	9.44	
50 1,1,1-Trichloroethane	97	6.537	6.525	0.012	37	18996	0.2522	
54 Carbon tetrachloride	117		6.738				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.976	6.970	0.006	63	84421	10.5	
57 Benzene	78		7.000				ND	
58 1,2-Dichloroethane	62		7.080				ND	
* 61 Fluorobenzene (IS)	96	7.415	7.409	0.006	99	1548090	10.0	
64 Trichloroethene	95	7.909	7.897	0.012	97	9913	0.2052	
66 1,2-Dichloropropane	63		8.220				ND	
71 Dichlorobromomethane	83		8.573				ND	
76 cis-1,3-Dichloropropene	75		9.134				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.311				ND	
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	93	1551959	10.2	
79 Toluene	92		9.530				ND	
97 trans-1,3-Dichloropropene	75		9.805				ND	
100 1,1,2-Trichloroethane	97		10.006				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.097	10.097	0.000	98	242203	4.17	
103 2-Hexanone	43		10.231				ND	
105 Chlorodibromomethane	129		10.396				ND	
106 Ethylene Dibromide	107		10.506				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.945	10.945	0.000	85	1187925	10.0	
109 Chlorobenzene	112		10.969				ND	
111 1,1,1,2-Tetrachloroethane	131		11.054				ND	
112 Ethylbenzene	91		11.061				ND	
113 m-Xylene & p-Xylene	106		11.176				ND	
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.506				ND	
115 Styrene	104		11.524				ND	
116 Bromoform	173		11.682				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.957	11.957	0.000	92	553119	9.64	
121 1,1,2,2-Tetrachloroethane	83		12.054				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.835	12.835	0.000	94	642465	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 08-Feb-2024 07:24:10

Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X29.D

Injection Date: 07-Feb-2024 05:47:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-159022-B-13 DL

Lab Sample ID: 410-159022-13

Worklist Smp#: 30

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

Purge Vol: 25.000 mL

Dil. Factor: 10.0000

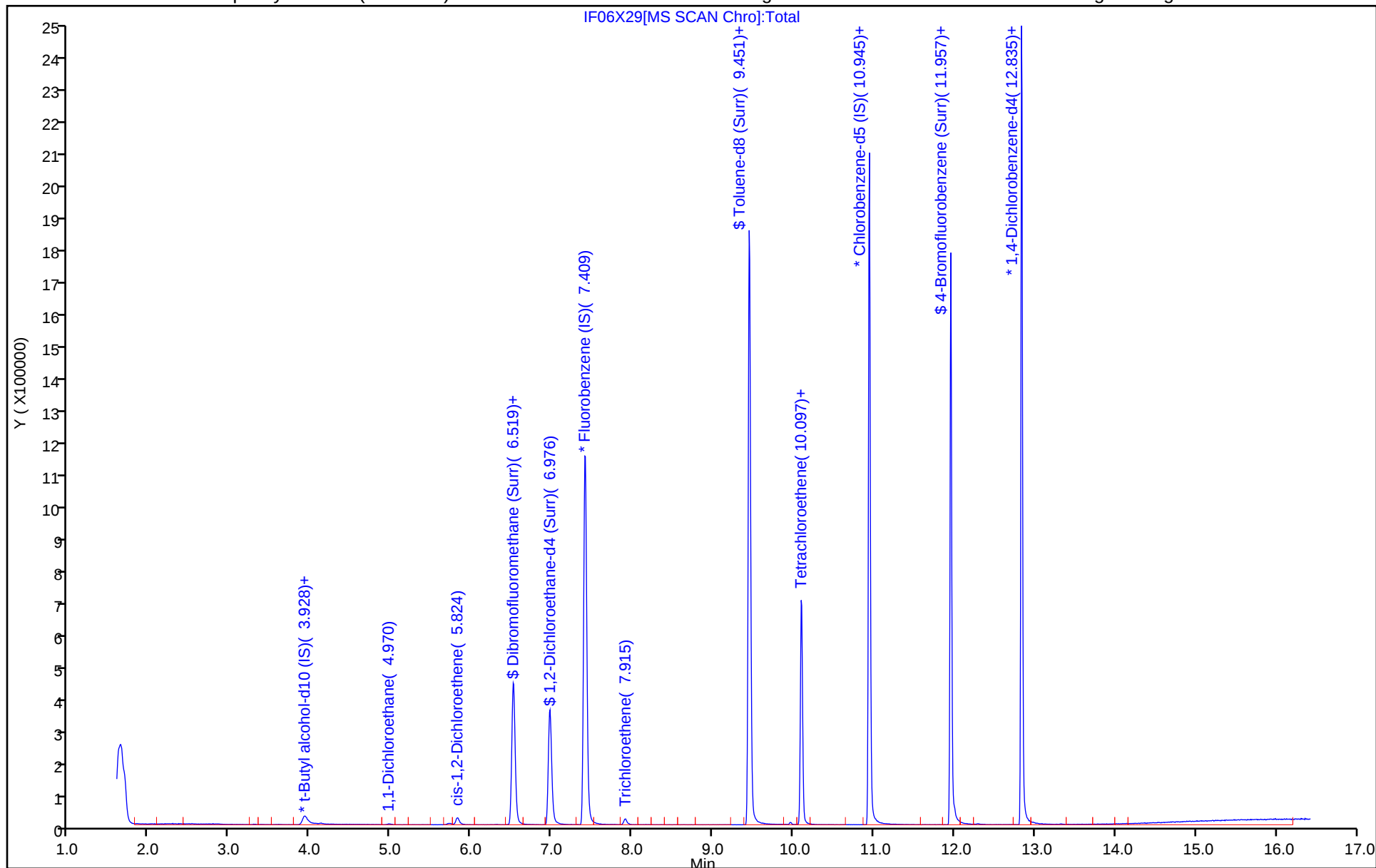
ALS Bottle#: 29

Method: 8260 25ml HP31

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\19930\20240206-105725.b\IF06X29.D
Lims ID: 410-159022-B-13 DL
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 07-Feb-2024 05:47:30 ALS Bottle#: 29 Worklist Smp#: 30
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0105725-030
Operator ID: gaw91131 Instrument ID: 19930
Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 08-Feb-2024 07:24:09 Calib Date: 23-Oct-2023 04:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1688

First Level Reviewer: N9NA

Date: 08-Feb-2024 07:24:09

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	9.44	94.42
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.49
\$ 78 Toluene-d8 (Surr)	10.0	10.2	102.30
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.64	96.35

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X29.D

Injection Date: 07-Feb-2024 05:47:30

Instrument ID: 19930

Lims ID: 410-159022-B-13 DL

Lab Sample ID: 410-159022-13

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

Operator ID: gaw91131

ALS Bottle#: 29

Worklist Smp#: 30

Purge Vol: 25.000 mL

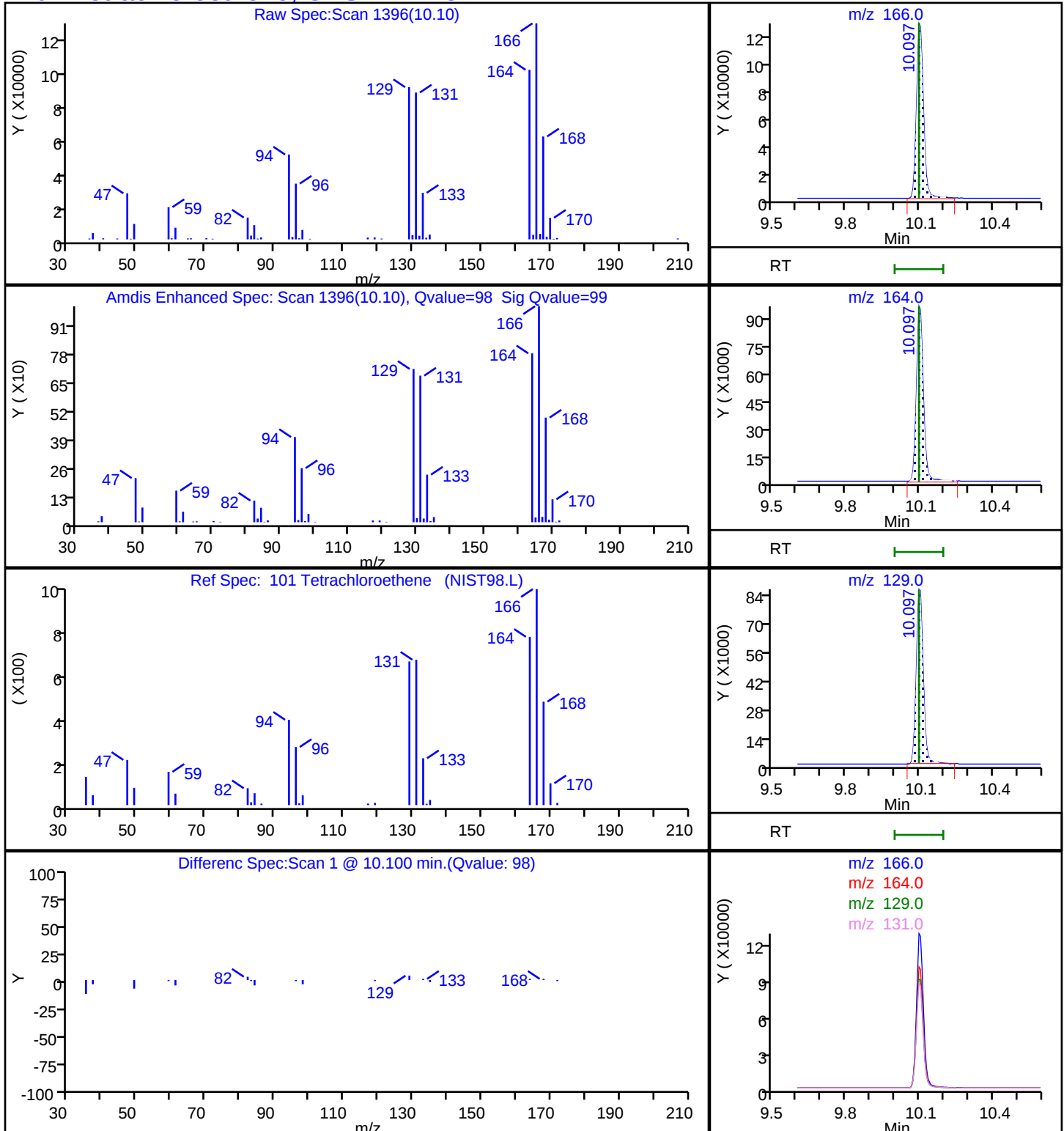
Dil. Factor: 10.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

MS Quad

101 Tetrachloroethene, CAS: 127-18-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

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

Lab Sample ID: 410-159022-14

Matrix: Water

Lab File ID: IF06X06.D

Analysis Method: 8260D

Date Collected: 01/29/2024 00:00

Sample wt/vol: 25 (mL)

Date Analyzed: 02/06/2024 21:44

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.: 470708

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	[^] c *+ cn	0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
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	[^] c cn	0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
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.: 410-159022-1

SDG No.:

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

Lab Sample ID: 410-159022-14

Matrix: Water

Lab File ID: IF06X06.D

Analysis Method: 8260D

Date Collected: 01/29/2024 00:00

Sample wt/vol: 25 (mL)

Date Analyzed: 02/06/2024 21:44

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.: 470708

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)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X06.D
 Lims ID: 410-159022-A-14
 Client ID: HD-QC1-0/1-2
 Sample Type: Client
 Inject. Date: 06-Feb-2024 21:44:30 ALS Bottle#: 6 Worklist Smp#: 7
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105725-007
 Operator ID: gaw91131 Instrument ID: 19930
 Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 06-Feb-2024 22:52:24 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1658

First Level Reviewer: N9NA

Date: 07-Feb-2024 12:59:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.014				ND	
5 Vinyl chloride	62		2.117				ND	
7 Bromomethane	94		2.446				ND	
8 Chloroethane	64		2.513				ND	
15 1,1-Dichloroethene	96		3.306				ND	
16 Acetone	43	3.349	3.330	0.019	52	3111	0.4558	
20 Carbon disulfide	76	3.580	3.593	-0.013	45	4679	0.0426	
25 Methylene Chloride	84		3.922				ND	7
* 26 t-Butyl alcohol-d10 (IS)	65	3.922	3.940	-0.018	36	150428	50.0	
29 Methyl tert-butyl ether	73	4.281	4.306	-0.025	94	6908	0.0582	
30 trans-1,2-Dichloroethene	96		4.318				ND	
32 1,1-Dichloroethane	63		4.976				ND	
38 2-Butanone (MEK)	43		5.787				ND	
39 cis-1,2-Dichloroethene	96		5.812				ND	
46 Chlorobromomethane	128		6.147				ND	
48 Chloroform	83	6.287	6.299	-0.012	91	5865	0.0666	
\$ 49 Dibromofluoromethane (Surr)	113	6.501	6.519	-0.018	94	413451	9.32	
50 1,1,1-Trichloroethane	97		6.525				ND	
54 Carbon tetrachloride	117		6.738				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.958	6.970	-0.012	63	90101	10.3	
57 Benzene	78		7.000				ND	
58 1,2-Dichloroethane	62		7.080				ND	
* 61 Fluorobenzene (IS)	96	7.397	7.409	-0.012	99	1684515	10.0	
64 Trichloroethene	95		7.897				ND	
66 1,2-Dichloropropane	63		8.220				ND	
71 Dichlorobromomethane	83		8.573				ND	
76 cis-1,3-Dichloropropene	75		9.134				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.311				ND	
\$ 78 Toluene-d8 (Surr)	98	9.445	9.451	-0.006	94	1670135	10.2	
79 Toluene	92		9.530				ND	7
97 trans-1,3-Dichloropropene	75		9.805				ND	
100 1,1,2-Trichloroethane	97		10.006				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166		10.097				ND	
103 2-Hexanone	43		10.231				ND	
105 Chlorodibromomethane	129		10.396				ND	
106 Ethylene Dibromide	107		10.506				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.939	10.945	-0.006	86	1280795	10.0	
109 Chlorobenzene	112		10.969				ND	
111 1,1,1,2-Tetrachloroethane	131		11.054				ND	
112 Ethylbenzene	91		11.061				ND	
113 m-Xylene & p-Xylene	106		11.176				ND	
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.506				ND	
115 Styrene	104		11.524				ND	
116 Bromoform	173		11.682				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.957	11.957	0.000	94	596150	9.63	
121 1,1,2,2-Tetrachloroethane	83		12.054				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.835	12.835	0.000	95	695154	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 07-Feb-2024 12:59:29

Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X06.D

Injection Date: 06-Feb-2024 21:44:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-159022-A-14

Lab Sample ID: 410-159022-14

Worklist Smp#: 7

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

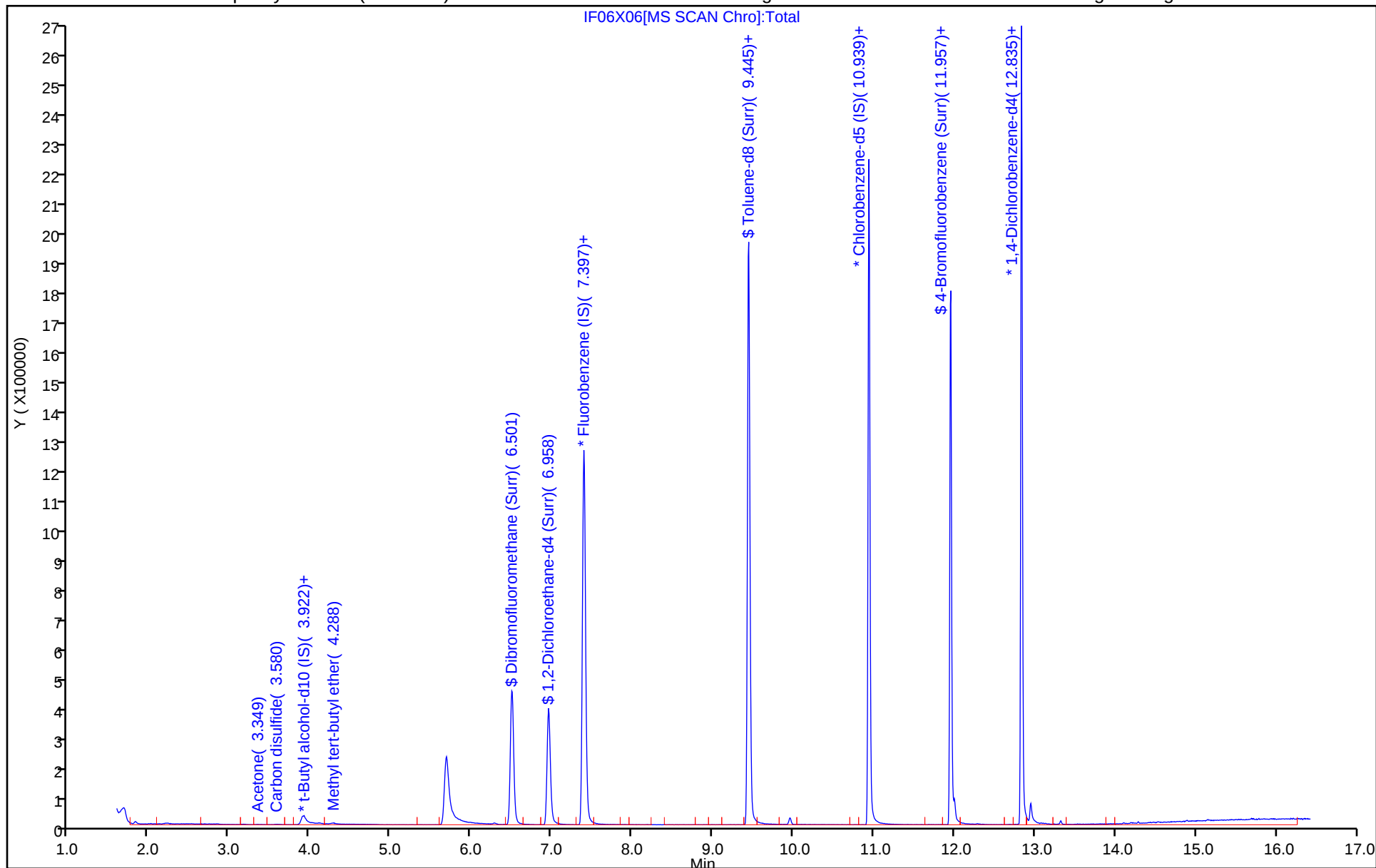
ALS Bottle#: 6

Method: 8260 25ml HP31

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\19930\20240206-105725.b\IF06X06.D
Lims ID: 410-159022-A-14
Client ID: HD-QC1-0/1-2
Sample Type: Client
Inject. Date: 06-Feb-2024 21:44:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0105725-007
Operator ID: gaw91131 Instrument ID: 19930
Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 06-Feb-2024 22:52:24 Calib Date: 23-Oct-2023 04:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1658

First Level Reviewer: N9NA

Date: 07-Feb-2024 12:59:29

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	9.32	93.17
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.47
\$ 78 Toluene-d8 (Surr)	10.0	10.2	102.10
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.63	96.32

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1 Analy Batch No.: 434273
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19930 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/23/2023 02:29 Calibration End Date: 10/23/2023 04:35 Calibration ID: 54988

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-434273/13	IO22X12.D
Level 2	IC 410-434273/14	IO22X13.D
Level 3	IC 410-434273/15	IO22X14.D
Level 4	IC 410-434273/16	IO22X15.D
Level 5	IC 410-434273/17	IO22X16.D
Level 6	ICIS 410-434273/18	IO22X17.D
Level 7	IC 410-434273/19	IO22X18.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	0.3529 0.3628	0.4189 0.3577	0.4390	0.4137	0.4296	Ave		0.396 4			0.1000	9.4		20.0			
Chloromethane	0.4290 0.3316	0.3757 0.3367	0.3817	0.3710	0.3780	Ave		0.372 0			0.1000	8.7		20.0			
Vinyl chloride	0.3855 0.3357	0.3742 0.3428	0.3799	0.3727	0.3805	Ave		0.367 4			0.1000	5.4		20.0			
1,3-Butadiene	0.3358 0.3175	0.4201 0.3202	0.3730	0.3775	0.3660	Ave		0.358 6				10.2		20.0			
Bromomethane	0.3460 0.2703	0.2974 0.2820	0.3006	0.3009	0.3075	Ave		0.300 7			0.1000	7.9		20.0			
Chloroethane	0.2348 0.1998	0.2093 0.2058	0.2227	0.2188	0.2254	Ave		0.216 7			0.1000	5.7		20.0			
Dichlorofluoromethane	0.7261 0.5764	0.6716 0.5875	0.6501	0.6497	0.6563	Ave		0.645 4			0.1000	7.9		20.0			
Trichlorofluoromethane	0.4958 0.4796	0.5410 0.4953	0.5646	0.5422	0.5610	Ave		0.525 7			0.1000	6.6		20.0			
Ethyl ether	0.2002 0.1815	0.1800 0.1902	0.2008	0.2032	0.2033	Ave		0.194 2				5.2		20.0			
Freon 123a	0.3741 0.2999	0.3475 0.3077	0.3549	0.3428	0.3376	Ave		0.337 8				7.7		20.0			
Acrolein	1.9183 1.5784	1.7568 1.6867	1.8186	1.8156	1.7533	Ave		1.761 1				6.1		20.0			
1,1-Dichloroethene	0.2377 0.2104	0.2247 0.2316	0.2403	0.2358	0.2346	Ave		0.230 7			0.1000	4.4		20.0			
Acetone	2.0407 2.1806	2.5945 2.1561	2.3707	2.2964	2.2405	Ave		2.268 5			0.1000	7.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1 Analy Batch No.: 434273
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19930 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/23/2023 02:29 Calibration End Date: 10/23/2023 04:35 Calibration ID: 54988

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	0.2358 0.2295	0.2200 0.2511	0.2712	0.2547	0.2615	Ave		0.246 3			0.1000	7.5		20.0			
Methyl iodide	0.5157 0.4694	0.4645 0.5139	0.5199	0.5201	0.5194	Ave		0.503 3				5.0		20.0			
Ethyl bromide	0.2289 0.2129	0.2033 0.2287	0.2412	0.2345	0.2366	Ave		0.226 6				6.0		20.0			
Carbon disulfide	0.6978 0.5929	0.6083 0.6540	0.6845	0.6640	0.6615	Ave		0.651 9			0.1000	5.9		20.0			
Methyl acetate	++++ 4.9997	4.2460 5.4018	5.2851	5.7382	6.0715	Ave		5.290 4			0.1000	11.9		20.0			
Allyl chloride	0.3760 0.3418	0.3550 0.3691	0.3789	0.3848	0.3770	Ave		0.369 n				4.1		20.0			
Methylene Chloride	0.2717 0.2366	0.2382 0.2588	0.2638	0.2689	0.2626	Ave		0.257 2			0.1000	5.5		20.0			
t-Butyl alcohol	0.7698 0.8982	1.0170 0.8279	1.0084	0.8448	0.6085	Ave		0.853 5				16.6		20.0			
Acrylonitrile	++++ 2.4759	2.2587 2.6051	2.4147	2.6511	3.1671	Ave		2.595 4				12.1		20.0			
Methyl tert-butyl ether	0.7174 0.6595	0.6490 0.7261	0.7227	0.7215	0.7365	Ave		0.704 7			0.1000	5.0		20.0			
trans-1,2-Dichloroethene	0.2760 0.2463	0.2449 0.2681	0.2800	0.2744	0.2723	Ave		0.266 n			0.1000	5.4		20.0			
n-Hexane	0.3411 0.2800	0.2752 0.3145	0.3468	0.3201	0.3119	Ave		0.312 8				8.8		20.0			
1,1-Dichloroethane	0.4928 0.4386	0.4379 0.4655	0.4885	0.5028	0.4901	Ave		0.473 8			0.2000	5.6		20.0			
di-Isopropyl ether	0.7897 0.7095	0.7204 0.7667	0.7905	0.7953	0.7925	Ave		0.766 4				4.8		20.0			
2-Chloro-1,3-butadiene	0.4282 0.3749	0.3877 0.4130	0.4348	0.4237	0.4269	Ave		0.412 7				5.5		20.0			
Ethyl t-butyl ether	0.8099 0.7351	0.7423 0.7901	0.8047	0.8167	0.8149	Ave		0.787 7				4.4		20.0			
2-Butanone (MEK)	5.0081 3.5636	3.2460 3.7318	3.7919	4.0752	4.4476	Ave		3.980 6			0.1000	14.8		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 Job No.: 410-159022-1 Analy Batch No.: 434273
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19930 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/23/2023 02:29 Calibration End Date: 10/23/2023 04:35 Calibration ID: 54988

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
cis-1,2-Dichloroethene	0.3185 0.2842	0.2762 0.3130	0.3110	0.3143	0.3145	Ave		0.304 5			0.1000	5.6		20.0			
2,2-Dichloropropane	0.5157 0.4190	0.4208 0.4552	0.4750	0.4659	0.4632	Ave		0.459 3				7.2		20.0			
Propionitrile	0.9195 0.9755	0.9729 1.0663	1.0525	1.1927	1.2996	Ave		1.068 4				12.6		20.0			
Methacrylonitrile	3.8992 3.5370	3.7973 3.7068	3.8330	4.1910	4.4670	Ave		3.918 8				8.0		20.0			
Bromochloromethane	0.1436 0.1326	0.1263 0.1459	0.1422	0.1457	0.1447	Ave		0.140 1				5.4		20.0			
Tetrahydrofuran	1.0992 1.1046	1.1997 1.1615	1.1844	1.2076	1.4117	Ave		1.195 5				8.8		20.0			
Chloroform	0.5707 0.4779	0.4943 0.5186	0.5344	0.5353	0.5282	Ave		0.522 8			0.2000	5.8		20.0			
1,1,1-Trichloroethane	0.4887 0.4510	0.4576 0.4871	0.5156	0.5037	0.5018	Ave		0.486 5			0.1000	5.0		20.0			
Cyclohexane	0.4019 0.3697	0.3690 0.4055	0.4505	0.4189	0.4221	Ave		0.405 4			0.1000	7.2		20.0			
Carbon tetrachloride	0.4474 0.4074	0.4052 0.4425	0.4602	0.4450	0.4517	Ave		0.437 1			0.1000	5.0		20.0			
1,1-Dichloropropene	0.3801 0.3496	0.3464 0.3784	0.3918	0.3883	0.3888	Ave		0.374 8				5.1		20.0			
Isobutyl alcohol	0.3644 0.2841	0.2927 0.2803	0.3056	0.2738	0.2452	Ave		0.292 3				12.6		20.0			
Benzene	1.1423 1.0212	1.0147 1.1149	1.1365	1.1356	1.1282	Ave		1.099 1			0.5000	5.1		20.0			
1,2-Dichloroethane	0.3682 0.3117	0.3198 0.3302	0.3480	0.3547	0.3491	Ave		0.340 2			0.1000	6.0		20.0			
t-Amyl methyl ether	0.7449 0.7019	0.6785 0.7611	0.7638	0.7691	0.7735	Ave		0.741 8				5.0		20.0			
n-Heptane	0.3661 0.2912	0.2567 0.3233	0.3453	0.3245	0.3300	Ave		0.319 6				11.2		20.0			
n-Butanol	0.1364 0.2435	0.2144 0.2515	0.2325	0.2143	0.2029	Ave		0.213 6				17.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1 Analy Batch No.: 434273
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19930 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/23/2023 02:29 Calibration End Date: 10/23/2023 04:35 Calibration ID: 54988

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Trichloroethene	0.3244 0.2908	0.2842 0.3179	0.3245	0.3197	0.3226	Ave		0.312 n			0.2000	5.5		20.0			
Methylcyclohexane	0.4632 0.4308	0.4112 0.4740	0.5098	0.4754	0.4842	Ave		0.464 1			0.1000	7.2		20.0			
1,2-Dichloropropane	0.2672 0.2511	0.2410 0.2752	0.2772	0.2781	0.2796	Ave		0.267 1			0.1000	5.7		20.0			
Methyl methacrylate	7.8741 6.9463	7.2335 7.4274	6.9593	7.8848	8.8518	Ave		7.596 7				8.9		20.0			
1,4-Dioxane	++++ 0.0514	++++ 0.0536	0.0509	0.0501	0.0448	Ave		0.050 1			0.0050	6.6		20.0			
Dibromomethane	0.1424 0.1384	0.1353 0.1525	0.1491	0.1509	0.1537	Ave		0.146 n				5.0		20.0			
Bromodichloromethane	0.3787 0.3493	0.3382 0.3830	0.3701	0.3797	0.3827	Ave		0.368 8			0.2000	4.9		20.0			
2-Nitropropane	2.7379 2.5615	2.5979 2.6911	2.7374	2.9438	3.2460	Ave		2.787 9				8.5		20.0			
1-Bromo-2-chloroethane	0.2567 0.2689	0.2397 0.2863	0.2875	0.2887	0.2972	Ave		0.275 n				7.5		20.0			
cis-1,3-Dichloropropene	0.4005 0.4102	0.3732 0.4501	0.4197	0.4356	0.4433	Ave		0.418 9			0.2000	6.4		20.0			
4-Methyl-2-pentanone (MIBK)	11.231 9.3947	9.7243 9.6301	10.234	11.425	12.150	Ave		10.54 1			0.1000	10.1		20.0			
Toluene	0.9991 0.8750	0.8670 0.9547	0.9767	0.9669	0.9720	Ave		0.944 5			0.4000	5.5		20.0			
trans-1,3-Dichloropropene	0.4104 0.4364	0.3842 0.4805	0.4477	0.4650	0.4777	Ave		0.443 1			0.1000	8.1		20.0			
Ethyl methacrylate	0.3554 0.3622	0.3302 0.3946	0.3715	0.3881	0.3988	Ave		0.371 5				6.6		20.0			
1,1,2-Trichloroethane	0.2766 0.2404	0.2388 0.2665	0.2709	0.2738	0.2745	Ave		0.263 1			0.1000	6.2		20.0			
Tetrachloroethene	0.5044 0.4514	0.4483 0.4903	0.5176	0.5041	0.5102	Ave		0.489 5			0.2000	5.8		20.0			
1,3-Dichloropropane	0.4418 0.3970	0.3919 0.4276	0.4344	0.4414	0.4454	Ave		0.425 7				5.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1 Analy Batch No.: 434273
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19930 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/23/2023 02:29 Calibration End Date: 10/23/2023 04:35 Calibration ID: 54988

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	8.9371 6.6136	6.8638 6.8407	7.3225	7.8078	8.5474	Ave		7.561 8			0.1000	11.9		20.0			
Dibromochloromethane	0.3366 0.3433	0.3119 0.3758	0.3545	0.3598	0.3732	Ave		0.350 7				6.4		20.0			
1,2-Dibromoethane (EDB)	0.2363 0.2442	0.2324 0.2665	0.2572	0.2624	0.2724	Ave		0.253 1			0.1000	6.1		20.0			
1-Chlorohexane	0.6227 0.4675	0.5122 0.5135	0.5446	0.5170	0.5264	Ave		0.529 1				9.0		20.0			
Chlorobenzene	1.1402 1.0085	0.9930 1.0931	1.1192	1.1043	1.1249	Ave		1.083 3			0.5000	5.4		20.0			
1,1,1,2-Tetrachloroethane	0.4147 0.3819	0.3607 0.4206	0.4151	0.4167	0.4279	Ave		0.405 4				6.0		20.0			
Ethylbenzene	1.9251 1.7412	1.6711 1.8697	1.9281	1.9112	1.9511	Ave		1.856 8			0.1000	5.8		20.0			
m&p-Xylene	0.7455 0.7030	0.6755 0.7633	0.7727	0.7718	0.7854	Ave		0.745 3			0.1000	5.5		20.0			
o-Xylene	0.7409 0.6993	0.6645 0.7639	0.7617	0.7678	0.7798	Ave		0.739 7			0.3000	5.7		20.0			
Styrene	1.1237 1.1168	1.0117 1.2388	1.1873	1.2098	1.2469	Ave		1.162 1			0.3000	7.2		20.0			
Bromoform	0.2480 0.2278	0.2065 0.2527	0.2310	0.2413	0.2491	Ave		0.236 6			0.1000	6.9		20.0			
Isopropylbenzene	1.8380 1.7284	1.6674 1.8516	1.9013	1.8728	1.9357	Ave		1.827 9			0.1000	5.3		20.0			
1,1,2,2-Tetrachloroethane	0.5654 0.5273	0.5077 0.5777	0.5578	0.5744	0.5776	Ave		0.555 4			0.3000	4.9		20.0			
Bromobenzene	0.8285 0.7755	0.7475 0.8530	0.8293	0.8483	0.8378	Ave		0.817 1				4.9		20.0			
trans-1,4-Dichloro-2-butene	4.4391 3.9495	4.0810 4.0508	4.2792	4.6193	4.9825	Ave		4.343 1				8.4		20.0			
1,2,3-Trichloropropane	0.1610 0.1552	0.1464 0.1671	0.1626	0.1722	0.1702	Ave		0.162 1				5.6		20.0			
N-Propylbenzene	3.7292 3.4390	3.3084 3.6729	3.6856	3.7636	3.7651	Ave		3.623 4				4.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1 Analy Batch No.: 434273
 Environment Testing, LLC

SDG No.: _____

Instrument ID: 19930 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/23/2023 02:29 Calibration End Date: 10/23/2023 04:35 Calibration ID: 54988

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Chlorotoluene	0.7835 0.7329	0.7087 0.8145	0.8016	0.8000	0.8046	Ave		0.778 0				5.2		20.0			
1,3,5-Trimethylbenzene	2.6990 2.5907	2.4163 2.8206	2.7725	2.7768	2.8508	Ave		2.703 8				5.7		20.0			
4-Chlorotoluene	0.7771 0.7426	0.7100 0.8213	0.7834	0.8127	0.8171	Ave		0.780 6				5.4		20.0			
tert-Butylbenzene	0.6546 0.6246	0.5873 0.6864	0.6770	0.6684	0.6737	Ave		0.653 1				5.4		20.0			
Pentachloroethane	0.4727 0.5292	0.4503 0.5792	0.5300	0.5497	0.5700	Ave		0.525 9				9.2		20.0			
1,2,4-Trimethylbenzene	2.6972 2.6394	2.4282 2.8588	2.7790	2.8282	2.8763	Ave		2.729 6				5.8		20.0			
sec-Butylbenzene	3.4712 3.2996	3.1275 3.5740	3.5686	3.5367	3.6097	Ave		3.455 3				5.1		20.0			
1,3-Dichlorobenzene	1.5432 1.4983	1.3722 1.6537	1.5725	1.6070	1.6287	Ave		1.553 7			0.6000	6.2		20.0			
p-Isopropyltoluene	2.9745 2.9546	2.6915 3.2317	3.1241	3.1240	3.2194	Ave		3.045 7				6.2		20.0			
1,4-Dichlorobenzene	1.6410 1.5059	1.4637 1.6521	1.6484	1.6638	1.6502	Ave		1.603 6			0.5000	5.1		20.0			
1,2,3-Trimethylbenzene	1.2580 1.1726	1.1350 1.2977	1.2578	1.2681	1.2922	Ave		1.240 2				5.0		20.0			
Benzyl chloride	0.1975 0.2458	0.1942 0.2753	0.2408	0.2482	0.2652	Ave		0.238 1				13.1		20.0			
n-Butylbenzene	1.3388 1.3731	1.1894 1.5434	1.4129	1.4043	1.4809	Ave		1.391 8				8.1		20.0			
1,2-Dichlorobenzene	1.4587 1.3967	1.3139 1.5243	1.4737	1.5254	1.5374	Ave		1.461 5			0.4000	5.6		20.0			
1,2-Dibromo-3-Chloropropane	0.0892 0.0967	0.0746 0.1111	0.0940	0.1014	0.1082	Ave		0.096 5			0.0500	12.8		20.0			
1,3,5-Trichlorobenzene	1.0778 1.1252	0.9739 1.2979	1.1304	1.1552	1.2055	Ave		1.138 0				8.9		20.0			
1,2,4-Trichlorobenzene	0.8112 0.9429	0.7740 1.1150	0.9036	0.9253	0.9944	Ave		0.923 8			0.2000	12.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1 Analy Batch No.: 434273
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19930 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/23/2023 02:29 Calibration End Date: 10/23/2023 04:35 Calibration ID: 54988

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexachlorobutadiene	0.4510 0.4218	0.3988 0.5021	0.4517	0.4344	0.4478	Ave		0.444 0				7.2		20.0			
Naphthalene	1.6701 1.6840	1.4369 1.9913	1.5976	1.8024	1.8936	Ave		1.725 1				10.8		20.0			
1,2,3-Trichlorobenzene	0.6760 0.7395	0.6491 0.9387	0.7126	0.7714	0.8216	Ave		0.758 4				12.9		20.0			
Dibromofluoromethane (Surr)	0.2654 0.2633	0.2617 0.2631	0.2634	0.2649	0.2623	Ave		0.263 4				0.5		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0521 0.0518	0.0513 0.0502	0.0514	0.0523	0.0528	Ave		0.051 7				1.6		20.0			
Toluene-d8 (Surr)	1.2690 1.2691	1.2827 1.2682	1.2855	1.2787	1.2867	Ave		1.277 1				0.6		20.0			
4-Bromofluorobenzene (Surr)	0.4815 0.4825	0.4787 0.4779	0.4893	0.4875	0.4851	Ave		0.483 2				0.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1 Analy Batch No.: 434273
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/23/2023 02:29 Calibration End Date: 10/23/2023 04:35 Calibration ID: 54988

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-434273/13	IO22X12.D
Level 2	IC 410-434273/14	IO22X13.D
Level 3	IC 410-434273/15	IO22X14.D
Level 4	IC 410-434273/16	IO22X15.D
Level 5	IC 410-434273/17	IO22X16.D
Level 6	ICIS 410-434273/18	IO22X17.D
Level 7	IC 410-434273/19	IO22X18.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	11835 701114	38202 1681445	73716	139040	373085	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	14389 640966	34255 1582843	64084	124674	328294	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	12929 648906	34124 1611485	63787	125261	330454	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	11263 613717	38305 1505325	62623	126878	317864	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	11605 522328	27117 1325500	50465	101133	267054	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	7876 386183	19088 967579	37385	73549	195726	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	24353 1114000	61239 2761418	109162	218344	569931	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	16628 926931	49336 2328271	94800	182231	487162	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	6716 350789	16417 894042	33715	68312	176534	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 123a	FB	Ave	12545 579689	31690 1446255	59591	115200	293172	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd1 0	Ave	51905 2830663	133519 7724252	271195	529505	1238851	10.0 500	25.0 1250	50.0	100	250
1,1-Dichloroethene	FB	Ave	7973 406707	20487 1088580	40351	79248	203712	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBAd1 0	Ave	11043 782101	39436 1974705	70704	133946	316611	2.00 100	5.00 250	10.0	20.0	50.0
Freon 113	FB	Ave	7908 443558	20062 1180284	45529	85608	227108	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

Analy Batch No.: 434273

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/23/2023 02:29 Calibration End Date: 10/23/2023 04:35 Calibration ID: 54988

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl iodide	FB	Ave	17296 907301	42360 2415505	87301	174798	451004	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl bromide	FB	Ave	7669 411016	18519 1074058	40465	78751	205236	0.200 9.99	0.500 25.0	0.999	2.00	5.00
Carbon disulfide	FB	Ave	23404 1145993	55469 3073974	114933	223171	574455	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd1 0	Ave	++++ 179317	6454 494740	15762	33470	85798	++++ 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	12611 660634	32371 1735021	63625	129334	327346	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	9112 457274	21721 1216465	44291	90382	228041	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd1 0	Ave	8331 644302	30917 1516439	60151	98548	171971	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd1 0	Ave	++++ 221998	8583 596477	18004	38659	111887	++++ 25.0	1.25 62.5	2.50	5.00	12.5
Methyl tert-butyl ether	FB	Ave	24059 1274554	59179 3412871	121343	242487	639546	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	9256 475963	22328 1260076	47008	92207	236460	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	11440 541203	25099 1478540	58232	107594	270878	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	16529 847769	39927 2188293	82022	168998	425558	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	26484 1371289	65694 3603847	132733	267282	688181	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	14361 724563	35354 1941149	73008	142411	370714	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	27161 1420775	67685 3713795	135116	274471	707619	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone (MEK)	TBAd1 0	Ave	27101 1278108	49340 3417886	113088	237702	628499	2.00 100	5.00 250	10.0	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	10683 549248	25189 1471470	52224	105614	273131	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	17296 809767	38376 2139769	79747	156568	402262	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

Analy Batch No.: 434273

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/23/2023 02:29 Calibration End Date: 10/23/2023 04:35 Calibration ID: 54988

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Propionitrile	TBAd10	Ave	9952 699754	29577 1953208	62777	139142	367286	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd10	Ave	21100 1268573	57720 3395002	114313	244456	631234	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	4816 256214	11517 685587	23883	48974	125637	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd10	Ave	2974 198090	9118 531909	17661	35219	99748	1.00 50.0	2.50 125	5.00	10.0	25.0
Chloroform	FB	Ave	19140 923692	45076 2437487	89727	179897	458724	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	16389 871651	41724 2289665	86578	169292	435800	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	13480 714619	33646 1905835	75643	140769	366511	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	15005 787383	36951 2080123	77262	149567	392268	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	12749 675643	31587 1778895	65781	130490	337622	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	TBAd10	Ave	9859 509533	22243 1283807	45573	79862	173275	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	38309 1973755	92523 5240763	190831	381657	979757	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	12350 602422	29158 1551905	58428	119222	303178	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	24984 1356547	61867 3577342	128238	258470	671705	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	12278 562849	23410 1519732	57978	109059	286585	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butanol	TBAd10	Ave	6457 764195	28515 2015247	60675	109379	250927	17.5 875	43.8 2188	87.5	175	438
Trichloroethene	FB	Ave	10879 562078	25913 1494366	54493	107435	280170	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	15536 832589	37500 2228027	85598	159780	420446	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	8961 485372	21974 1293415	46550	93477	242841	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

Analy Batch No.: 434273

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/23/2023 02:29 Calibration End Date: 10/23/2023 04:35 Calibration ID: 54988

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl methacrylate	TBA01	Ave	4261 249133	10995 680256	20755	45991	125086	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBA01	Ave	++++ 92194	++++ 245561	7586	14605	31629	++++ 500	++++ 1250	50.0	100	250
Dibromomethane	FB	Ave	4775 267507	12337 716621	25027	50717	133499	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromodichloromethane	FB	Ave	12701 675164	30839 1800131	62138	127627	332356	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBA01	Ave	7408 459345	19744 1232353	40819	85854	229347	1.00 50.0	2.50 125	5.00	10.0	25.0
1-Bromo-2-chloroethane	FB	Ave	8608 519734	21861 1345873	48268	97019	258112	0.200 10.0	0.500 25.0	1.00	2.00	5.00
cis-1,3-Dichloropropene	FB	Ave	13432 792708	34030 2115620	70469	146404	384944	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone (MIBK)	TBA01	Ave	60778 3369484	147811 8820004	305204	666398	1716930	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd5	Ave	26666 1364263	62898 3637875	129485	259196	674702	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd5	Ave	10954 680408	27874 1830787	59356	124640	331563	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd5	Ave	9485 564728	23956 1503615	49252	104028	276801	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2-Trichloroethane	CBZd5	Ave	7383 374891	17323 1015421	35911	73399	190527	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd5	Ave	13463 703797	32524 1868205	68627	135144	354102	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd5	Ave	11791 619060	28433 1629434	57592	118336	309146	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBA01	Ave	48362 2372032	104331 6265188	218383	455414	1207855	2.00 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd5	Ave	8983 535280	22630 1431988	47000	96461	259017	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane (EDB)	CBZd5	Ave	6306 380825	16859 1015635	34099	70344	189074	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd5	Ave	16619 728954	37155 1956574	72205	138597	365351	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1 Analy Batch No.: 434273
Environment Testing, LLC

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/23/2023 02:29 Calibration End Date: 10/23/2023 04:35 Calibration ID: 54988

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBZd5	Ave	30433 1572560	72039 4165079	148374	296038	780827	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd5	Ave	11067 595448	26169 1602810	55031	111704	297010	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd5	Ave	51381 2714949	121235 7124220	255619	512343	1354278	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd5	Ave	39794 2192403	98007 5816765	204895	413812	1090298	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd5	Ave	19775 1090424	48207 2910559	100990	205832	541268	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Styrene	CBZd5	Ave	29992 1741318	73395 4720060	157402	324321	865519	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd5	Ave	6619 355252	14980 962919	30628	64675	172926	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd5	Ave	49057 2694979	120963 7055241	252066	502047	1343620	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd4	Ave	9059 499574	22156 1321239	44886	93416	248232	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd4	Ave	13276 734717	32623 1950999	66727	137963	360018	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	TBA d1 0	Ave	24022 1416510	62031 3709982	127621	269437	704089	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd4	Ave	2579 147063	6389 382158	13081	28002	73159	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd4	Ave	59755 3257958	144377 8400419	296563	612063	1618012	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd4	Ave	12555 694359	30927 1862841	64503	130102	345749	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd4	Ave	43247 2454299	105449 6451030	223094	451575	1225117	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd4	Ave	12452 703487	30986 1878451	63039	132164	351142	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd4	Ave	10489 591701	25631 1569770	54476	108694	289513	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Pentachloroethane	DCBd4	Ave	7575 501299	19652 1324791	42643	89391	244959	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd4	Ave	43218 2500426	105968 6538421	223613	459934	1236077	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd4	Ave	55620	136483	287150	575149	1551240	0.200	0.500	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1 Analy Batch No.: 434273
Environment Testing, LLC

SDG No.:

Instrument ID: 19930 GC Column: R-624SilMS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/23/2023 02:29 Calibration End Date: 10/23/2023 04:35 Calibration ID: 54988

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
			3125905	8174245				10.0	25.0			
1,3-Dichlorobenzene	DCBd4	Ave	24728 1419412	59881 3782225	126531	261341	699915	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd4	Ave	47662 2799044	117457 7391207	251380	508038	1383523	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd4	Ave	26294 1426600	63874 3778431	132639	270568	709174	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd4	Ave	20158 1110846	49531 2967904	101206	206220	555334	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd4	Ave	3164 232839	8473 629744	19376	40363	113961	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd4	Ave	21452 1300834	51904 3529895	113688	228370	636393	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd4	Ave	23374 1323158	57340 3486320	118581	248066	660702	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	1430 91610	3257 254058	7562	16498	46481	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd4	Ave	17270 1066006	42500 2968531	90958	187870	518072	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trichlorobenzene	DCBd4	Ave	12998 893221	33778 2550225	72708	150478	427328	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd4	Ave	7227 399611	17403 1148410	36344	70649	192443	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd4	Ave	26760 1595362	62708 4554345	128549	293123	813779	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd4	Ave	10831 700617	28328 2146966	57343	125454	353077	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	445113 508826	477359 494587	442289	445086	455498	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	87321 100023	93525 94412	86247	87940	91784	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd5	Ave	1693418 1978865	1861074 1932856	1704330	1713893	1786181	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd5	Ave	642615 752375	694608 728398	648639	653439	673492	10.0 10.0	10.0 10.0	10.0	10.0	10.0

Curve Type Legend:
Ave = Average ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1 Analy Batch No.: 434273
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19930 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/23/2023 02:29 Calibration End Date: 10/23/2023 04:35 Calibration ID: 54988

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-434273/13	IO22X12.D
Level 2	IC 410-434273/14	IO22X13.D
Level 3	IC 410-434273/15	IO22X14.D
Level 4	IC 410-434273/16	IO22X15.D
Level 5	IC 410-434273/17	IO22X16.D
Level 6	ICIS 410-434273/18	IO22X17.D
Level 7	IC 410-434273/19	IO22X18.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	-11.0 -9.8	5.7	10.8	4.4	8.4	-8.5	50 30	30	30	30	30	30
Chloromethane	15.3 -9.5	1.0	2.6	-0.3	1.6	-10.8	50 30	30	30	30	30	30
Vinyl chloride	4.9 -6.7	1.9	3.4	1.5	3.6	-8.6	50 30	30	30	30	30	30
1,3-Butadiene	-6.4 -10.7	17.1	4.0	5.3	2.1	-11.5	50 30	30	30	30	30	30
Bromomethane	15.1 -6.2	-1.1	0.0	0.1	2.3	-10.1	50 30	30	30	30	30	30
Chloroethane	8.4 -5.0	-3.4	2.8	1.0	4.0	-7.8	50 30	30	30	30	30	30
Dichlorofluoromethane	12.5 -9.0	4.1	0.7	0.7	1.7	-10.7	50 30	30	30	30	30	30
Trichlorofluoromethane	-5.7 -5.8	2.9	7.4	3.2	6.7	-8.8	50 30	30	30	30	30	30
Ethyl ether	3.1 -2.1	-7.3	3.4	4.7	4.7	-6.5	50 30	30	30	30	30	30
Freon 123a	10.7 -8.9	2.9	5.1	1.5	-0.1	-11.2	50 30	30	30	30	30	30
Acrolein	8.9 -4.2	-0.2	3.3	3.1	-0.4	-10.4	50 30	30	30	30	30	30
1,1-Dichloroethene	3.0 0.4	-2.6	4.2	2.2	1.7	-8.8	50 30	30	30	30	30	30
Acetone	-10.0 -5.0	14.4	4.5	1.2	-1.2	-3.9	50 30	30	30	30	30	30
Freon 113	-4.2 2.0	-10.7	10.1	3.4	6.2	-6.8	50 30	30	30	30	30	30
Methyl iodide	2.5 2.1	-7.7	3.3	3.3	3.2	-6.7	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1 Analy Batch No.: 434273
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19930 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/23/2023 02:29 Calibration End Date: 10/23/2023 04:35 Calibration ID: 54988

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Ethyl bromide	1.0 0.9	-10.3	6.5	3.5	4.4	-6.1	50 30	30	30	30	30	30
Carbon disulfide	7.1 0.3	-6.7	5.0	1.9	1.5	-9.0	50 30	30	30	30	30	30
Methyl acetate	++++ 2.1	-19.7	-0.1	8.5	14.8	-5.5	30	50	30	30	30	30
Allyl chloride	1.9 0.0	-3.8	2.7	4.3	2.2	-7.4	50 30	30	30	30	30	30
Methylene Chloride	5.6 0.6	-7.4	2.5	4.5	2.1	-8.0	50 30	30	30	30	30	30
t-Butyl alcohol	-9.8 -3.0	19.2	18.2	-1.0	-28.7	5.2	50 30	30	30	30	30	30
Acrylonitrile	++++ 0.4	-13.0	-7.0	2.1	22.0	-4.6	30	50	30	30	30	30
Methyl tert-butyl ether	1.8 3.0	-7.9	2.6	2.4	4.5	-6.4	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	3.8 0.8	-7.9	5.3	3.2	2.4	-7.4	50 30	30	30	30	30	30
n-Hexane	9.0 0.5	-12.0	10.9	2.3	-0.3	-10.5	50 30	30	30	30	30	30
1,1-Dichloroethane	4.0 -1.7	-7.6	3.1	6.1	3.4	-7.4	50 30	30	30	30	30	30
di-Isopropyl ether	3.0 0.0	-6.0	3.2	3.8	3.4	-7.4	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	3.7 0.1	-6.1	5.3	2.7	3.4	-9.2	50 30	30	30	30	30	30
Ethyl t-butyl ether	2.8 0.3	-5.8	2.2	3.7	3.5	-6.7	50 30	30	30	30	30	30
2-Butanone (MEK)	25.8 -6.3	-18.5	-4.7	2.4	11.7	-10.5	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	4.6 2.8	-9.3	2.1	3.2	3.3	-6.7	50 30	30	30	30	30	30
2,2-Dichloropropane	12.3 -0.9	-8.4	3.4	1.4	0.9	-8.8	50 30	30	30	30	30	30
Propionitrile	-13.9 -0.2	-8.9	-1.5	11.6	21.6	-8.7	50 30	30	30	30	30	30
Methacrylonitrile	-0.5 -5.4	-3.1	-2.2	6.9	14.0	-9.7	50 30	30	30	30	30	30
Bromochloromethane	2.5 4.1	-9.9	1.5	4.0	3.2	-5.4	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1 Analy Batch No.: 434273
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19930 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/23/2023 02:29 Calibration End Date: 10/23/2023 04:35 Calibration ID: 54988

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Tetrahydrofuran	-8.1 -2.8	0.4	-0.9	1.0	18.1	-7.6	50 30	30	30	30	30	30
Chloroform	9.2 -0.8	-5.4	2.2	2.4	1.0	-8.6	50 30	30	30	30	30	30
1,1,1-Trichloroethane	0.4 0.1	-5.9	6.0	3.5	3.2	-7.3	50 30	30	30	30	30	30
Cyclohexane	-0.8 0.0	-9.0	11.1	3.3	4.1	-8.8	50 30	30	30	30	30	30
Carbon tetrachloride	2.4 1.3	-7.3	5.3	1.8	3.4	-6.8	50 30	30	30	30	30	30
1,1-Dichloropropene	1.4 1.0	-7.6	4.5	3.6	3.7	-6.7	50 30	30	30	30	30	30
Isobutyl alcohol	24.7 -4.1	0.1	4.5	-6.3	-16.1	-2.8	50 30	30	30	30	30	30
Benzene	3.9 1.4	-7.7	3.4	3.3	2.7	-7.1	50 30	30	30	30	30	30
1,2-Dichloroethane	8.2 -3.0	-6.0	2.3	4.3	2.6	-8.4	50 30	30	30	30	30	30
t-Amyl methyl ether	0.4 2.6	-8.5	3.0	3.7	4.3	-5.4	50 30	30	30	30	30	30
n-Heptane	14.5 1.2	-19.7	8.0	1.5	3.3	-8.9	50 30	30	30	30	30	30
n-Butanol	-36.2 17.7	0.4	8.8	0.3	-5.0	14.0	50 30	30	30	30	30	30
Trichloroethene	4.0 1.9	-8.9	4.0	2.5	3.4	-6.8	50 30	30	30	30	30	30
Methylcyclohexane	-0.2 2.1	-11.4	9.8	2.4	4.3	-7.2	50 30	30	30	30	30	30
1,2-Dichloropropane	0.0 3.0	-9.8	3.8	4.1	4.7	-6.0	50 30	30	30	30	30	30
Methyl methacrylate	3.7 -2.2	-4.8	-8.4	3.8	16.5	-8.6	50 30	30	30	30	30	30
1,4-Dioxane	++++ 6.9	++++	1.4	-0.1	-10.7	2.5	30		50	30	30	30
Dibromomethane	-2.5 4.4	-7.4	2.1	3.3	5.3	-5.2	50 30	30	30	30	30	30
Bromodichloromethane	2.7 3.8	-8.3	0.3	3.0	3.8	-5.3	50 30	30	30	30	30	30
2-Nitropropane	-1.8 -3.5	-6.8	-1.8	5.6	16.4	-8.1	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1 Analy Batch No.: 434273
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19930 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/23/2023 02:29 Calibration End Date: 10/23/2023 04:35 Calibration ID: 54988

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1-Bromo-2-chloroethane	-6.7 4.1	-12.8	4.5	5.0	8.1	-2.2	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-4.4 7.4	-10.9	0.2	4.0	5.8	-2.1	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	6.5 -8.6	-7.8	-2.9	8.4	15.3	-10.9	50 30	30	30	30	30	30
Toluene	5.8 1.1	-8.2	3.4	2.4	2.9	-7.4	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-7.4 8.4	-13.3	1.0	4.9	7.8	-1.5	50 30	30	30	30	30	30
Ethyl methacrylate	-4.3 6.2	-11.1	0.0	4.4	7.3	-2.5	50 30	30	30	30	30	30
1,1,2-Trichloroethane	5.2 1.3	-9.2	3.0	4.1	4.3	-8.6	50 30	30	30	30	30	30
Tetrachloroethene	3.1 0.2	-8.4	5.8	3.0	4.2	-7.8	50 30	30	30	30	30	30
1,3-Dichloropropane	3.8 0.5	-7.9	2.1	3.7	4.6	-6.7	50 30	30	30	30	30	30
2-Hexanone	18.2 -9.5	-9.2	-3.2	3.3	13.0	-12.5	50 30	30	30	30	30	30
Dibromochloromethane	-4.0 7.2	-11.1	1.1	2.6	6.4	-2.1	50 30	30	30	30	30	30
1,2-Dibromoethane (EDB)	-6.6 5.3	-8.2	1.6	3.7	7.6	-3.5	50 30	30	30	30	30	30
1-Chlorohexane	17.7 -3.0	-3.2	2.9	-2.3	-0.5	-11.6	50 30	30	30	30	30	30
Chlorobenzene	5.3 0.9	-8.3	3.3	1.9	3.8	-6.9	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	2.3 3.8	-11.0	2.4	2.8	5.6	-5.8	50 30	30	30	30	30	30
Ethylbenzene	3.7 0.7	-10.0	3.8	2.9	5.1	-6.2	50 30	30	30	30	30	30
m&p-Xylene	0.0 2.4	-9.4	3.7	3.6	5.4	-5.7	50 30	30	30	30	30	30
o-Xylene	0.2 3.3	-10.2	3.0	3.8	5.4	-5.5	50 30	30	30	30	30	30
Styrene	-3.3 6.6	-12.9	2.2	4.1	7.3	-3.9	50 30	30	30	30	30	30
Bromoform	4.8 6.8	-12.7	-2.4	2.0	5.3	-3.7	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1 Analy Batch No.: 434273
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19930 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/23/2023 02:29 Calibration End Date: 10/23/2023 04:35 Calibration ID: 54988

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Isopropylbenzene	0.6 1.3	-8.8	4.0	2.5	5.9	-5.4	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	1.8 4.0	-8.6	0.4	3.4	4.0	-5.1	50 30	30	30	30	30	30
Bromobenzene	1.4 4.4	-8.5	1.5	3.8	2.5	-5.1	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	2.2 -6.7	-6.0	-1.5	6.4	14.7	-9.1	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-0.7 3.1	-9.7	0.3	6.2	5.0	-4.2	50 30	30	30	30	30	30
N-Propylbenzene	2.9 1.4	-8.7	1.7	3.9	3.9	-5.1	50 30	30	30	30	30	30
2-Chlorotoluene	0.7 4.7	-8.9	3.0	2.8	3.4	-5.8	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-0.2 4.3	-10.6	2.5	2.7	5.4	-4.2	50 30	30	30	30	30	30
4-Chlorotoluene	-0.4 5.2	-9.0	0.4	4.1	4.7	-4.9	50 30	30	30	30	30	30
tert-Butylbenzene	0.2 5.1	-10.1	3.7	2.3	3.1	-4.4	50 30	30	30	30	30	30
Pentachloroethane	-10.1 10.1	-14.4	0.8	4.5	8.4	0.6	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-1.2 4.7	-11.0	1.8	3.6	5.4	-3.3	50 30	30	30	30	30	30
sec-Butylbenzene	0.5 3.4	-9.5	3.3	2.4	4.5	-4.5	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-0.7 6.4	-11.7	1.2	3.4	4.8	-3.6	50 30	30	30	30	30	30
p-Isopropyltoluene	-2.3 6.1	-11.6	2.6	2.6	5.7	-3.0	50 30	30	30	30	30	30
1,4-Dichlorobenzene	2.3 3.0	-8.7	2.8	3.8	2.9	-6.1	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	1.4 4.6	-8.5	1.4	2.2	4.2	-5.5	50 30	30	30	30	30	30
Benzyl chloride	-17.1 15.6	-18.5	1.1	4.2	11.4	3.2	50 30	30	30	30	30	30
n-Butylbenzene	-3.8 10.9	-14.5	1.5	0.9	6.4	-1.3	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-0.2 4.3	-10.1	0.8	4.4	5.2	-4.4	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1 Analy Batch No.: 434273
Environment Testing, LLC

SDG No.: _____

Instrument ID: 19930 GC Column: R-624SilMS 3 ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/23/2023 02:29 Calibration End Date: 10/23/2023 04:35 Calibration ID: 54988

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,2-Dibromo-3-Chloropropane	-7.5 15.2	-22.6	-2.6	5.2	12.1	0.2	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-5.3 14.1	-14.4	-0.7	1.5	5.9	-1.1	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-12.2 20.7	-16.2	-2.2	0.2	7.6	2.1	50 30	30	30	30	30	30
Hexachlorobutadiene	1.6 13.1	-10.2	1.7	-2.1	0.9	-5.0	50 30	30	30	30	30	30
Naphthalene	-3.2 15.4	-16.7	-7.4	4.5	9.8	-2.4	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-10.9 23.8	-14.4	-6.0	1.7	8.3	-2.5	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	0.8 -0.1	-0.6	0.0	0.5	-0.4	-0.1	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	0.7 -2.9	-0.8	-0.6	1.2	2.2	0.1	50 30	30	30	30	30	30
Toluene-d8 (Surr)	-0.6 -0.7	0.4	0.7	0.1	0.7	-0.6	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-0.3 -1.1	-0.9	1.2	0.9	0.4	-0.1	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X12.D
 Lims ID: IC std1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 23-Oct-2023 02:29:30 ALS Bottle#: 12 Worklist Smp#: 13
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0097328-013
 Misc. Info.: 0.2
 Operator ID: gaw91131 Instrument ID: 19930
 Sublist: chrom-8260 25ml HP31*sub2
 Method: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 31-Oct-2023 09:20:45 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1687

First Level Reviewer: DVW2

Date: 24-Oct-2023 08:31:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.831	1.825	0.006	98	11835	0.2000	0.1781	
4 Chloromethane	50	2.014	2.007	0.007	98	14389	0.2000	0.2307	
5 Vinyl chloride	62	2.123	2.117	0.006	86	12929	0.2000	0.2099	
6 Butadiene	39	2.123	2.123	0.000	97	11263	0.2000	0.1873	
7 Bromomethane	94	2.428	2.422	0.006	93	11605	0.2000	0.2302	
8 Chloroethane	64	2.501	2.501	0.000	98	7876	0.2000	0.2168	
9 Dichlorofluoromethane	67	2.721	2.721	0.000	97	24353	0.2000	0.2250	
10 Trichlorofluoromethane	101	2.788	2.788	0.000	90	16628	0.2000	0.1886	
11 Ethyl ether	59	3.007	2.995	0.012	88	6716	0.2000	0.2063	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.080	3.086	-0.006	84	12545	0.2000	0.2215	
14 Acrolein	56	3.166	3.147	0.019	98	51905	10.0	10.9	
15 1,1-Dichloroethene	96	3.288	3.282	0.006	98	7973	0.2000	0.2061	
16 Acetone	43	3.336	3.306	0.030	88	11043	2.00	1.80	M
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.330	3.330	0.000	90	7908	0.2000	0.1915	
18 Iodomethane	142	3.477	3.464	0.013	99	17296	0.2000	0.2049	
19 Ethyl bromide	108	3.501	3.489	0.012	94	7669	0.1998	0.2018	
20 Carbon disulfide	76	3.580	3.568	0.012	99	23404	0.2000	0.2141	
23 Methyl acetate	43	3.727	3.696	0.031	27	2700	0.2000	0.1886	M
24 3-Chloro-1-propene	41	3.727	3.714	0.013	84	12611	0.2000	0.2038	
25 Methylene Chloride	84	3.897	3.891	0.006	69	9112	0.2000	0.2112	
* 26 t-Butyl alcohol-d10 (IS)	65	3.910	3.910	0.000	60	135285	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.031	4.013	0.018	92	8331	4.00	3.61	
28 Acrylonitrile	53	4.281	4.202	0.079	24	1724	0.5000	0.2455	
29 Methyl tert-butyl ether	73	4.263	4.263	0.000	94	24059	0.2000	0.2036	
30 trans-1,2-Dichloroethene	96	4.288	4.281	0.007	97	9256	0.2000	0.2075	
31 Hexane	57	4.714	4.702	0.012	92	11440	0.2000	0.2181	
32 1,1-Dichloroethane	63	4.940	4.940	0.000	95	16529	0.2000	0.2081	
35 Isopropyl ether	45	5.007	5.001	0.006	83	26484	0.2000	0.2061	
36 2-Chloro-1,3-butadiene	53	5.068	5.050	0.018	91	14361	0.2000	0.2075	
37 Tert-butyl ethyl ether	59	5.549	5.549	0.000	95	27161	0.2000	0.2056	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2-Butanone (MEK)	43	5.793	5.751	0.042	80	27101	2.00	2.52	
39 cis-1,2-Dichloroethene	96	5.793	5.781	0.012	78	10683	0.2000	0.2092	
40 2,2-Dichloropropane	77	5.806	5.799	0.007	72	17296	0.2000	0.2246	
43 Propionitrile	54	5.891	5.836	0.055	57	9952	4.00	3.44	
45 Methacrylonitrile	67	6.074	6.055	0.019	89	21100	2.00	1.99	
46 Chlorobromomethane	128	6.123	6.116	0.007	85	4816	0.2000	0.2049	
47 Tetrahydrofuran	71	6.171	6.135	0.036	46	2974	1.00	0.9194	M
S 41 1,2-Dichloroethene, Total	100				0			0.4167	
48 Chloroform	83	6.281	6.275	0.006	93	19140	0.2000	0.2183	
\$ 49 Dibromofluoromethane (Surr)	113	6.494	6.488	0.006	94	445113	10.0	10.1	
50 1,1,1-Trichloroethane	97	6.501	6.500	0.000	37	16389	0.2000	0.2009	
51 Cyclohexane	56	6.598	6.604	-0.006	90	13480	0.2000	0.1983	
54 Carbon tetrachloride	117	6.714	6.714	0.000	94	15005	0.2000	0.2047	
53 1,1-Dichloropropene	75	6.732	6.720	0.012	89	12749	0.2000	0.2029	
55 Isobutyl alcohol	41	6.909	6.878	0.031	30	9859	10.0	12.5	M
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.958	6.952	0.006	64	87321	10.0	10.1	
57 Benzene	78	6.988	6.982	0.006	93	38309	0.2000	0.2079	
58 1,2-Dichloroethane	62	7.055	7.055	0.000	96	12350	0.2000	0.2165	
60 Tert-amyl methyl ether	73	7.189	7.177	0.012	96	24984	0.2000	0.2008	
* 61 Fluorobenzene (IS)	96	7.391	7.397	-0.006	99	1676893	10.0	10.0	
62 n-Heptane	43	7.409	7.409	0.000	36	12278	0.2000	0.2291	
63 n-Butanol	56	8.006	7.781	0.225	23	6457	17.5	11.2	a
64 Trichloroethene	95	7.890	7.878	0.012	96	10879	0.2000	0.2079	
65 Methylcyclohexane	83	8.189	8.189	0.000	85	15536	0.2000	0.1996	
66 1,2-Dichloropropane	63	8.207	8.214	-0.007	82	8961	0.2000	0.2001	
67 Methyl methacrylate	69	8.329	8.305	0.024	65	4261	0.2000	0.2073	M
68 1,4-Dioxane	88		8.317				ND	ND	
69 Dibromomethane	93	8.336	8.323	0.013	88	4775	0.2000	0.1950	
71 Dichlorobromomethane	83	8.567	8.567	0.000	98	12701	0.2000	0.2054	
72 2-Nitropropane	41	8.842	8.829	0.013	94	7408	1.00	0.9821	
75 1-Bromo-2-chloroethane	63	8.970	8.957	0.013	97	8608	0.2000	0.1867	
76 cis-1,3-Dichloropropene	75	9.134	9.128	0.006	93	13432	0.2000	0.1912	
77 4-Methyl-2-pentanone (MIBK)	43	9.317	9.311	0.006	96	60778	2.00	2.13	
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	94	1693418	10.0	9.94	
79 Toluene	92	9.530	9.530	0.000	97	26666	0.2000	0.2116	
97 trans-1,3-Dichloropropene	75	9.817	9.805	0.012	94	10954	0.2000	0.1852	
99 Ethyl methacrylate	69	9.884	9.872	0.012	85	9485	0.2000	0.1913	
100 1,1,2-Trichloroethane	97	10.018	10.012	0.006	93	7383	0.2000	0.2103	
S 98 1,3-Dichloropropene, Total	100				0			0.3764	
101 Tetrachloroethene	166	10.103	10.103	0.000	98	13463	0.2000	0.2061	
102 1,3-Dichloropropane	76	10.183	10.183	0.000	90	11791	0.2000	0.2076	
103 2-Hexanone	43	10.250	10.238	0.012	96	48362	2.00	2.36	
105 Chlorodibromomethane	129	10.402	10.402	0.000	93	8983	0.2000	0.1919	
106 Ethylene Dibromide	107	10.518	10.512	0.006	96	6306	0.2000	0.1867	
* 107 Chlorobenzene-d5 (IS)	117	10.957	10.957	0.000	85	1334493	10.0	10.0	
108 1-Chlorohexane	91	10.969	10.969	0.000	94	16619	0.2000	0.2354	
109 Chlorobenzene	112	10.981	10.981	0.000	97	30433	0.2000	0.2105	
111 1,1,1,2-Tetrachloroethane	131	11.067	11.067	0.000	93	11067	0.2000	0.2046	
112 Ethylbenzene	91	11.073	11.073	0.000	98	51381	0.2000	0.2074	
113 m-Xylene & p-Xylene	106	11.195	11.189	0.006	93	39794	0.4000	0.4001	
S 110 Xylenes, Total	106				0			0.6004	
114 o-Xylene	106	11.524	11.524	0.000	96	19775	0.2000	0.2003	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Styrene	104	11.548	11.542	0.006	94	29992	0.2000	0.1934	
116 Bromoform	173	11.701	11.695	0.006	95	6619	0.2000	0.2096	
117 Isopropylbenzene	105	11.829	11.829	0.000	96	49057	0.2000	0.2011	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.975	11.975	0.000	96	642615	10.0	9.97	
121 1,1,2,2-Tetrachloroethane	83	12.079	12.079	0.000	95	9059	0.2000	0.2036	
122 Bromobenzene	156	12.091	12.091	0.000	86	13276	0.2000	0.2028	
123 trans-1,4-Dichloro-2-butene	53	12.103	12.103	0.000	95	24022	2.00	2.04	
124 1,2,3-Trichloropropane	110	12.127	12.121	0.006	76	2579	0.2000	0.1986	
125 N-Propylbenzene	91	12.164	12.164	0.000	98	59755	0.2000	0.2058	
126 2-Chlorotoluene	126	12.237	12.237	0.000	97	12555	0.2000	0.2014	
127 1,3,5-Trimethylbenzene	105	12.298	12.298	0.000	95	43247	0.2000	0.1996	
128 4-Chlorotoluene	126	12.335	12.329	0.006	96	12452	0.2000	0.1991	
129 tert-Butylbenzene	134	12.542	12.542	0.000	93	10489	0.2000	0.2005	
130 Pentachloroethane	167	12.572	12.572	0.000	72	7575	0.2000	0.1798	
131 1,2,4-Trimethylbenzene	105	12.585	12.585	0.000	97	43218	0.2000	0.1976	
132 sec-Butylbenzene	105	12.707	12.707	0.000	94	55620	0.2000	0.2009	
133 1,3-Dichlorobenzene	146	12.810	12.804	0.006	98	24728	0.2000	0.1987	
134 4-Isopropyltoluene	119	12.816	12.816	0.000	97	47662	0.2000	0.1953	
* 135 1,4-Dichlorobenzene-d4	152	12.859	12.859	0.000	94	801167	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.877	12.877	0.000	95	26294	0.2000	0.2047	
137 1,2,3-Trimethylbenzene	120	12.890	12.889	0.001	98	20158	0.2000	0.2029	
138 Benzyl chloride	126	12.957	12.957	0.000	98	3164	0.2000	0.1658	
139 n-Butylbenzene	92	13.109	13.109	0.000	98	21452	0.2000	0.1924	
140 1,2-Dichlorobenzene	146	13.139	13.139	0.000	98	23374	0.2000	0.1996	
142 1,2-Dibromo-3-Chloropropane	155	13.682	13.682	0.000	80	1430	0.2000	0.1850	
143 1,3,5-Trichlorobenzene	180	13.816	13.810	0.006	97	17270	0.2000	0.1894	
144 1,2,4-Trichlorobenzene	180	14.237	14.231	0.006	93	12998	0.2000	0.1756	
145 Hexachlorobutadiene	225	14.316	14.316	0.000	96	7227	0.2000	0.2032	
146 Naphthalene	128	14.420	14.407	0.013	97	26760	0.2000	0.1936	
147 1,2,3-Trichlorobenzene	180	14.554	14.554	0.000	96	10831	0.2000	0.1782	
165 Isopropyl alcohol	45		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00100	Amount Added: 2.00	Units: uL	
MSV_LL_#2_826_00109	Amount Added: 2.00	Units: uL	
MSV_LL_GAS826_00175	Amount Added: 2.00	Units: uL	
MSV_LLcentISS_00009	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 31-Oct-2023 09:20:45

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X12.D

Injection Date: 23-Oct-2023 02:29:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: IC std1

Worklist Smp#: 13

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

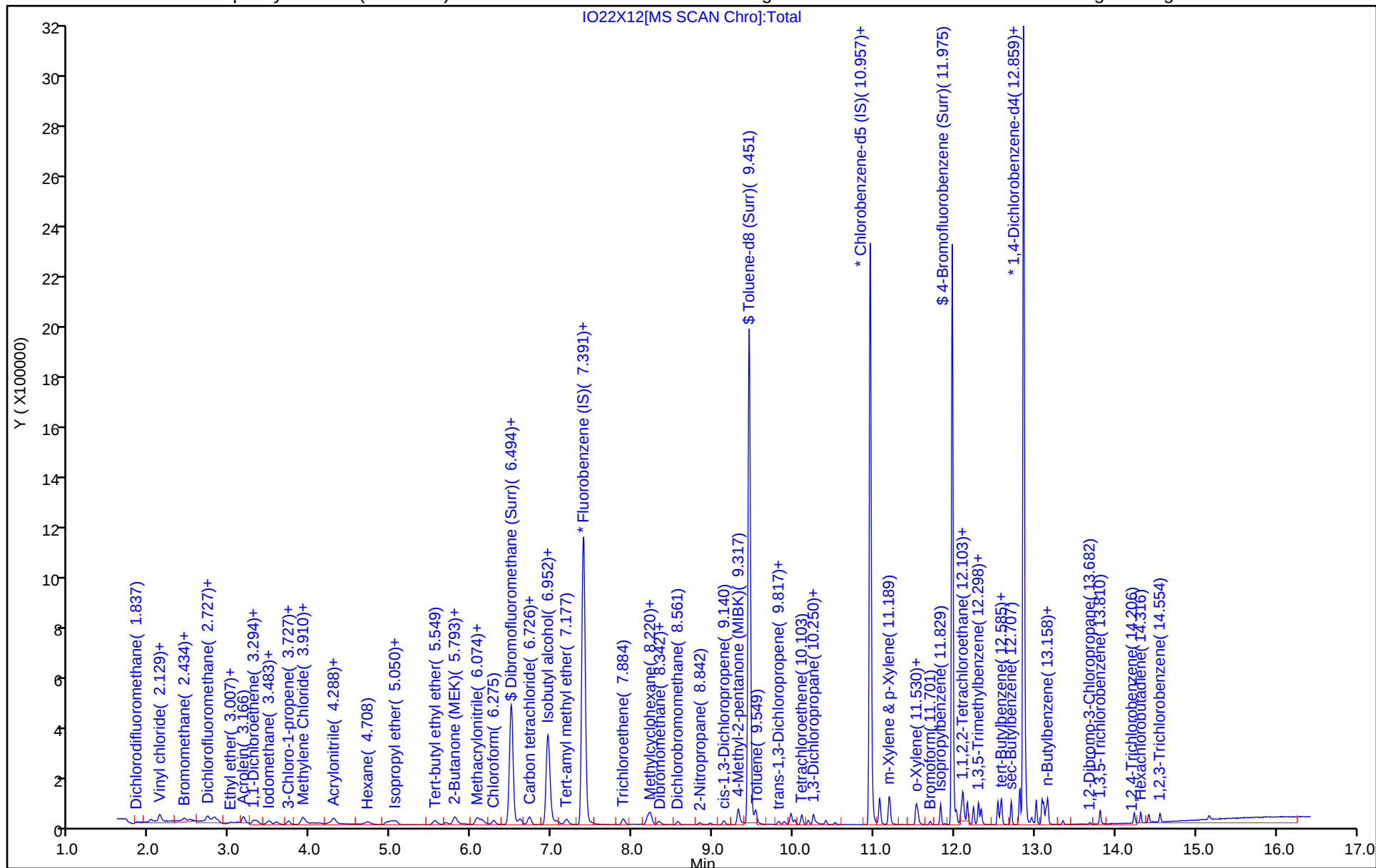
ALS Bottle#: 12

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

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



Eurofins Lancaster Laboratories Environment Testing, LLC

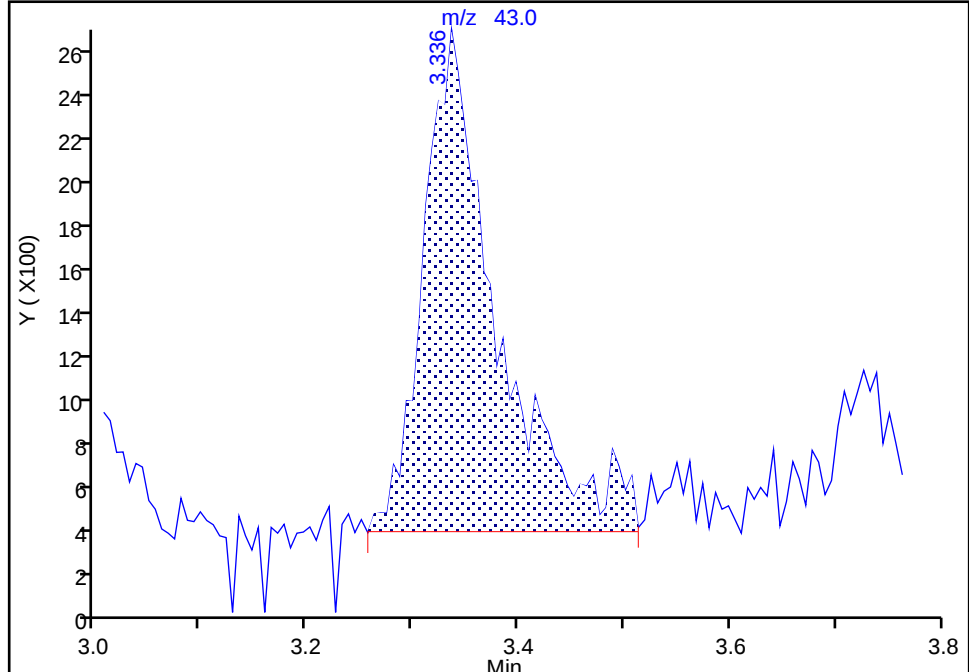
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Injection Date: 23-Oct-2023 02:29:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: gaw91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

16 Acetone, CAS: 67-64-1

Signal: 1

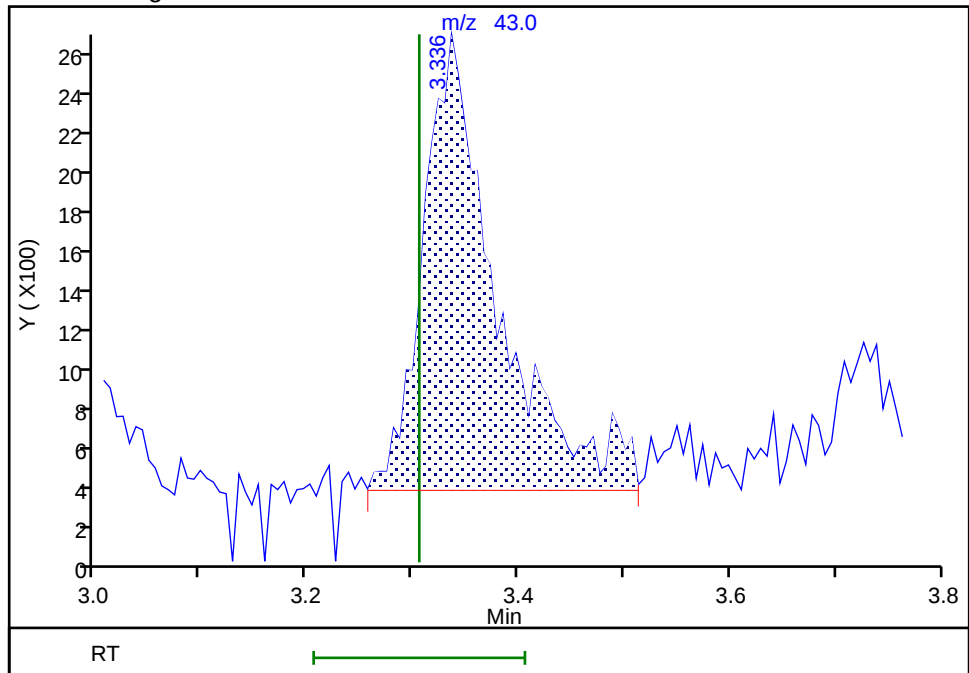
RT: 3.34
Area: 10996
Amount: 1.872593
Amount Units: ug/l

Processing Integration Results



RT: 3.34
Area: 11043
Amount: 1.799152
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 31-Oct-2023 08:30:47 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

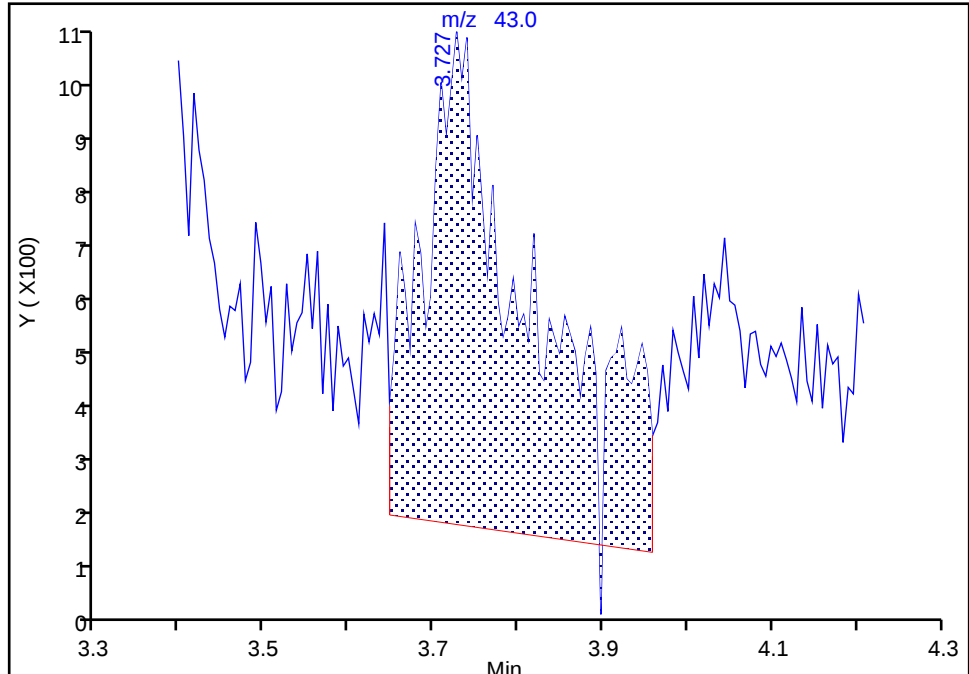
Data File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X12.D
Injection Date: 23-Oct-2023 02:29:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: gaw91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

23 Methyl acetate, CAS: 79-20-9

Signal: 1

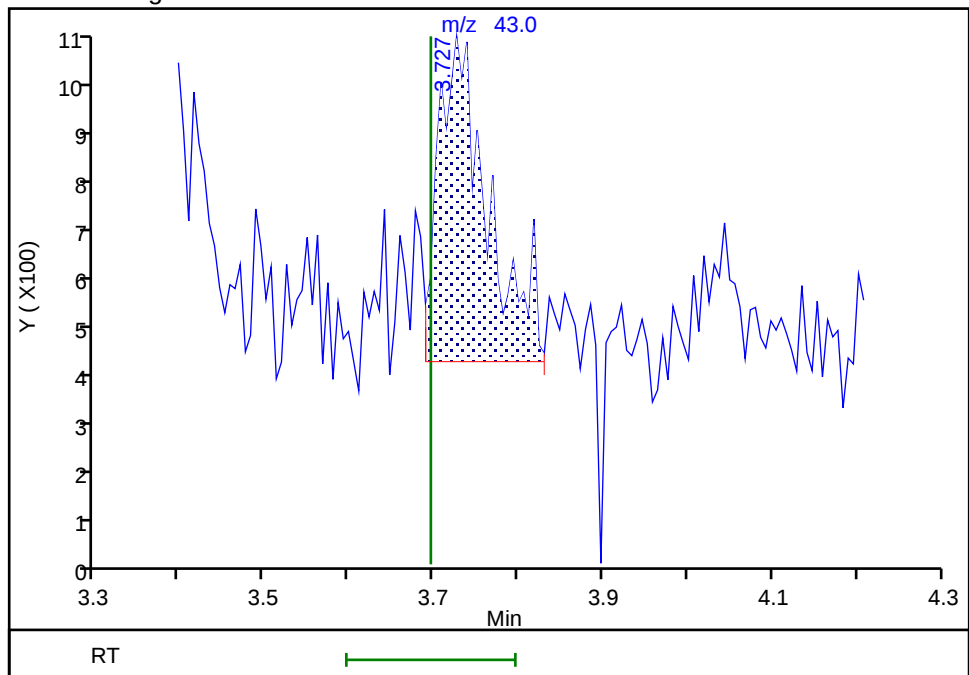
RT: 3.73
Area: 8503
Amount: 0.409474
Amount Units: ug/l

Processing Integration Results



RT: 3.73
Area: 2700
Amount: 0.188624
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:47:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

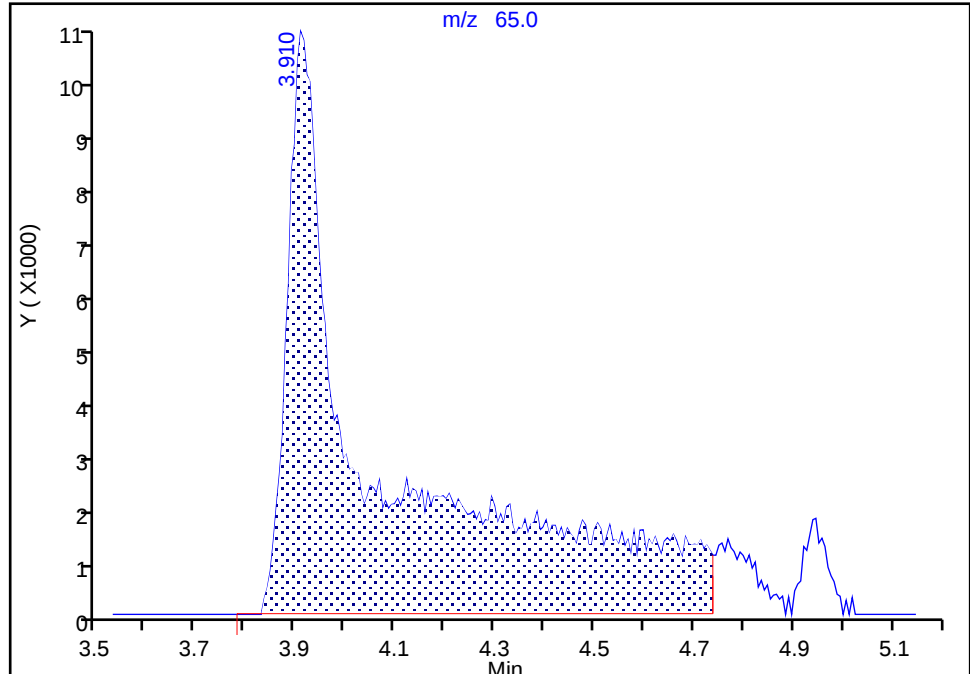
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Injection Date: 23-Oct-2023 02:29:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: gaw91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

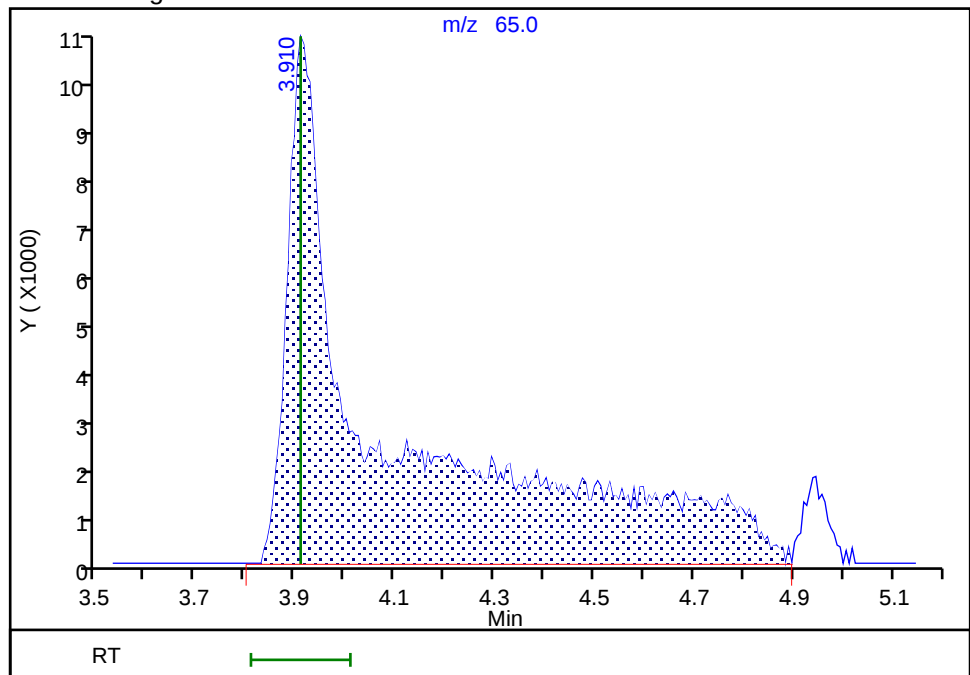
RT: 3.91
Area: 128196
Amount: 50.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.91
Area: 135285
Amount: 50.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:30:39 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

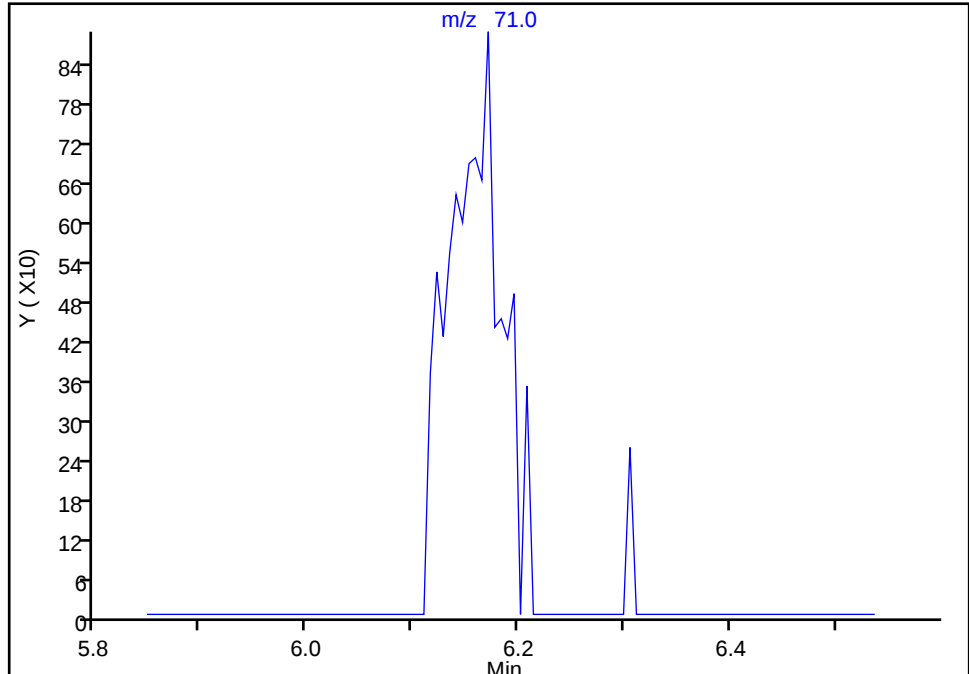
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Injection Date: 23-Oct-2023 02:29:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: gaw91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

47 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

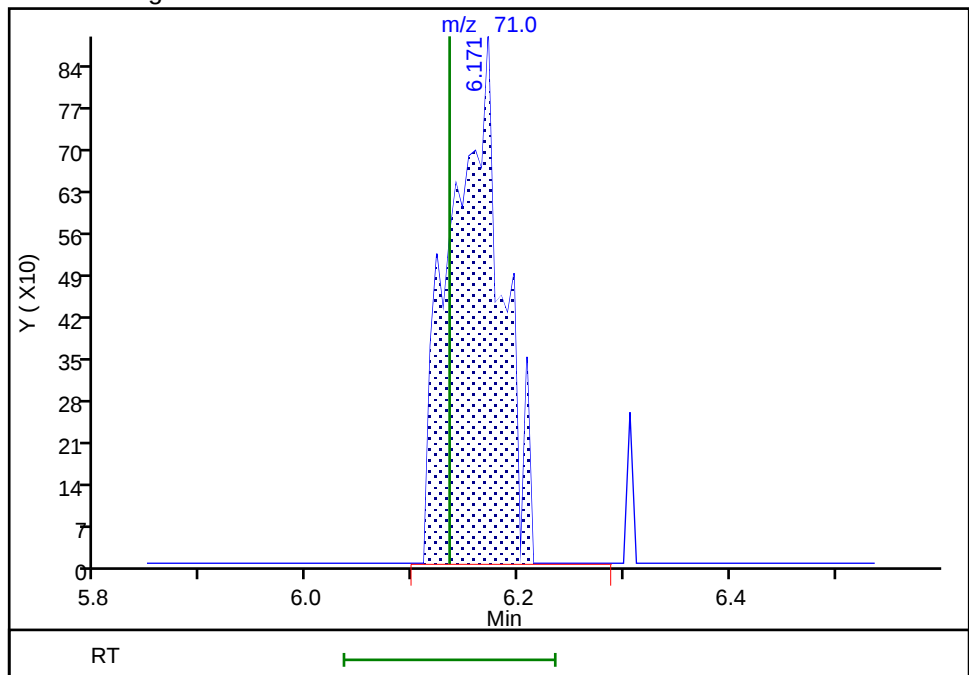
Not Detected
Expected RT: 6.13

Processing Integration Results



RT: 6.17
Area: 2974
Amount: 0.919387
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:30:48 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

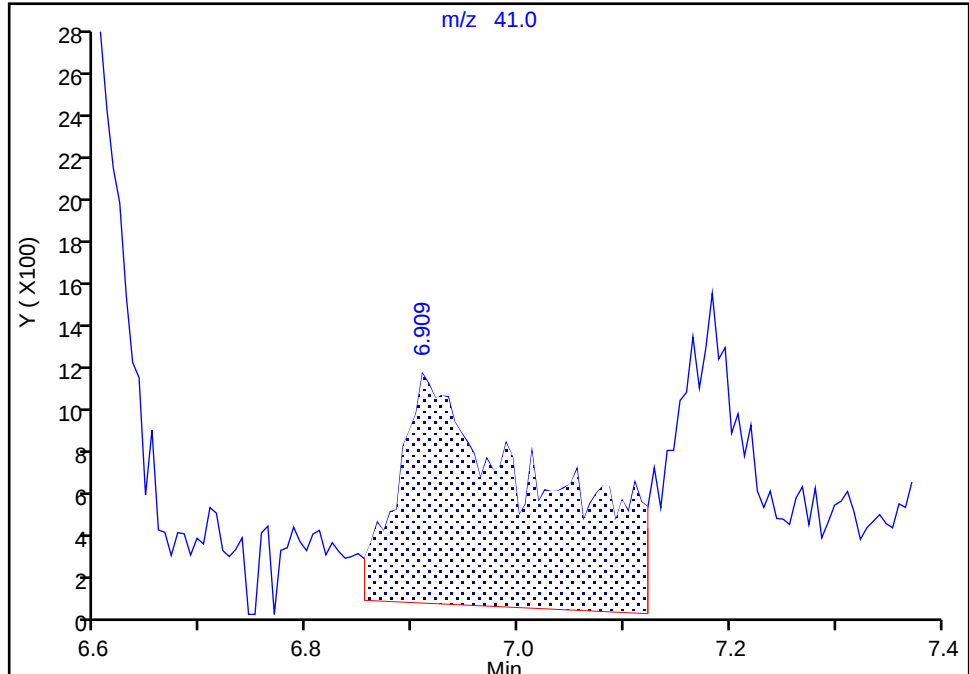
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Injection Date: 23-Oct-2023 02:29:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: gaw91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

55 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

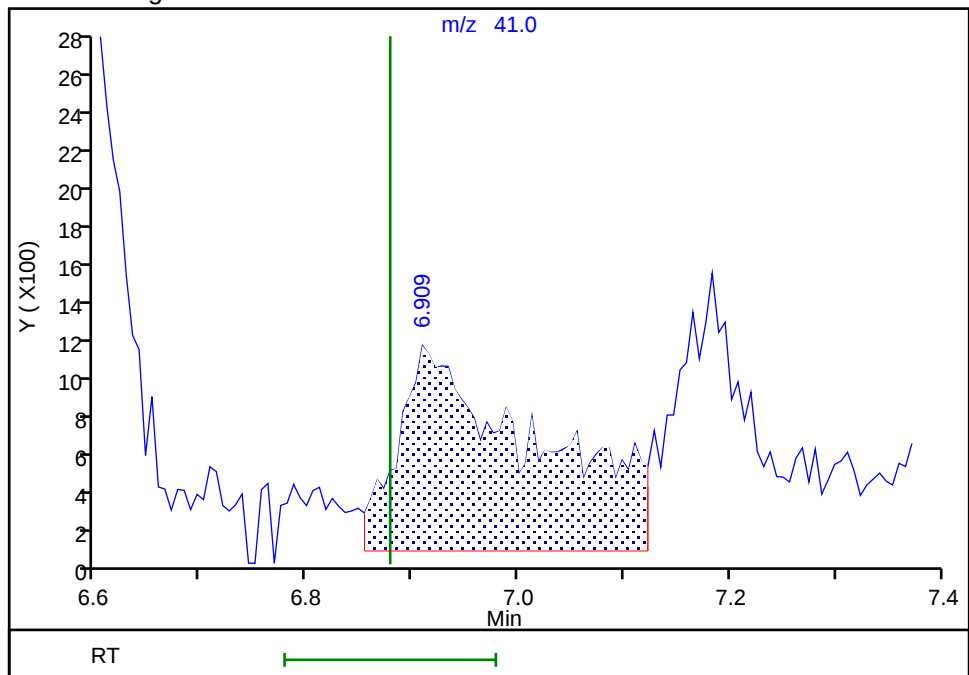
RT: 6.91
Area: 10336
Amount: 12.537056
Amount Units: ug/l

Processing Integration Results



RT: 6.91
Area: 9859
Amount: 12.465210
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:31:03 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

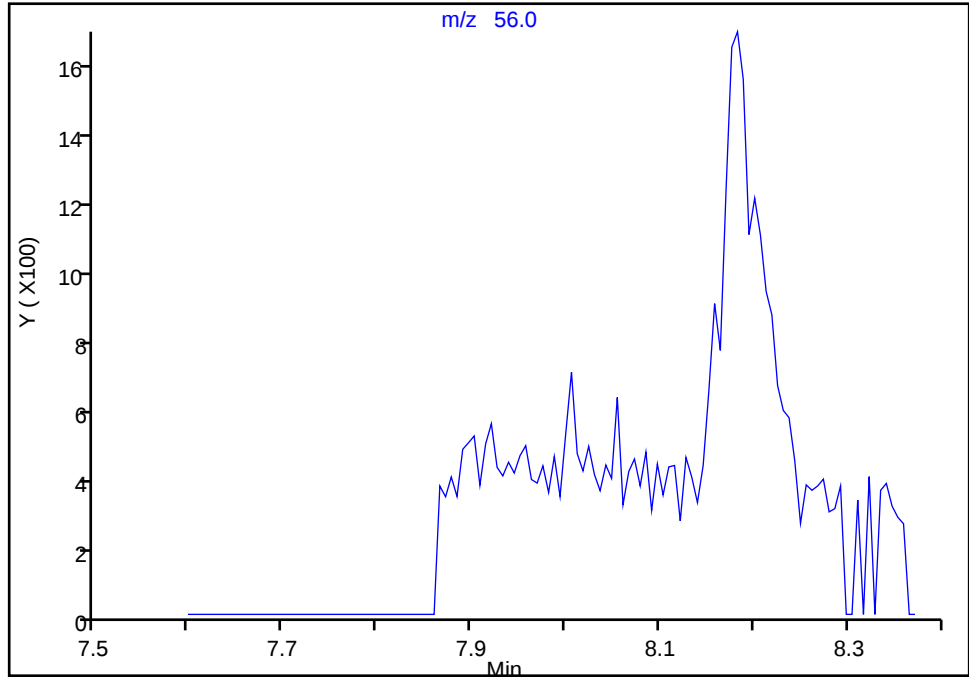
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Injection Date: 23-Oct-2023 02:29:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: gaw91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) MS Quad

63 n-Butanol, CAS: 71-36-3

Signal: 1

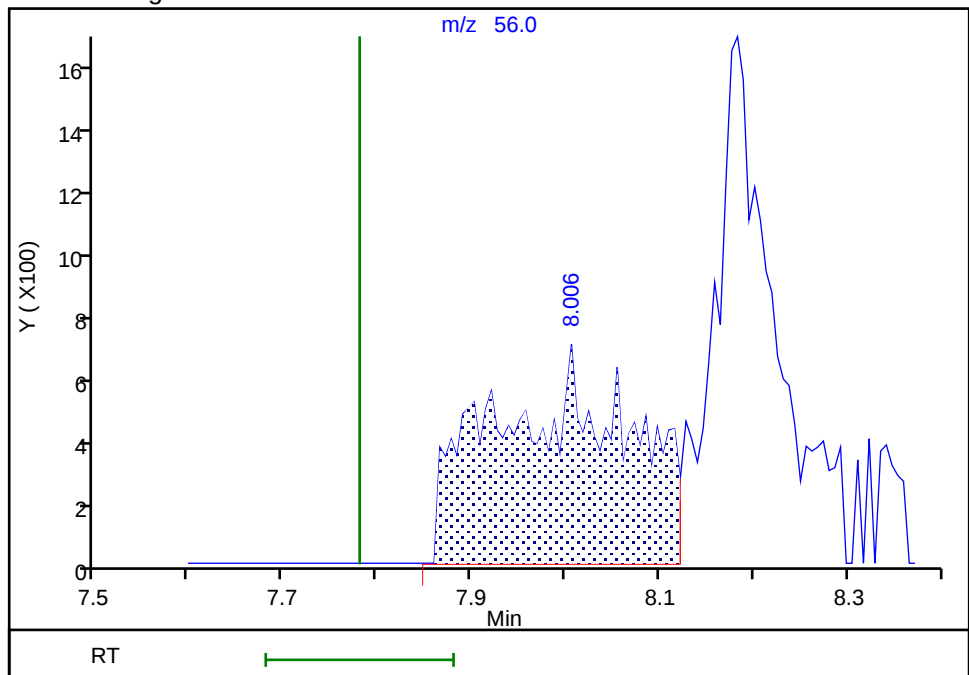
Not Detected
Expected RT: 7.78

Processing Integration Results



Manual Integration Results

RT: 8.01
Area: 6457
Amount: 11.170235
Amount Units: ug/l



Reviewer: DVW2, 24-Oct-2023 08:31:09 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

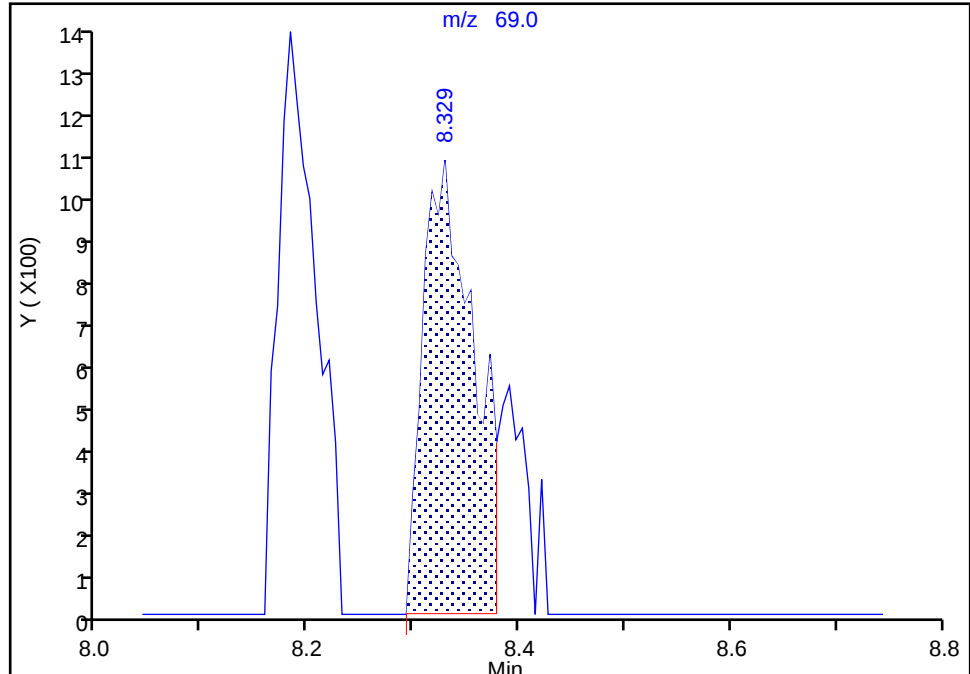
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Injection Date: 23-Oct-2023 02:29:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: gaw91131 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

67 Methyl methacrylate, CAS: 80-62-6

Signal: 1

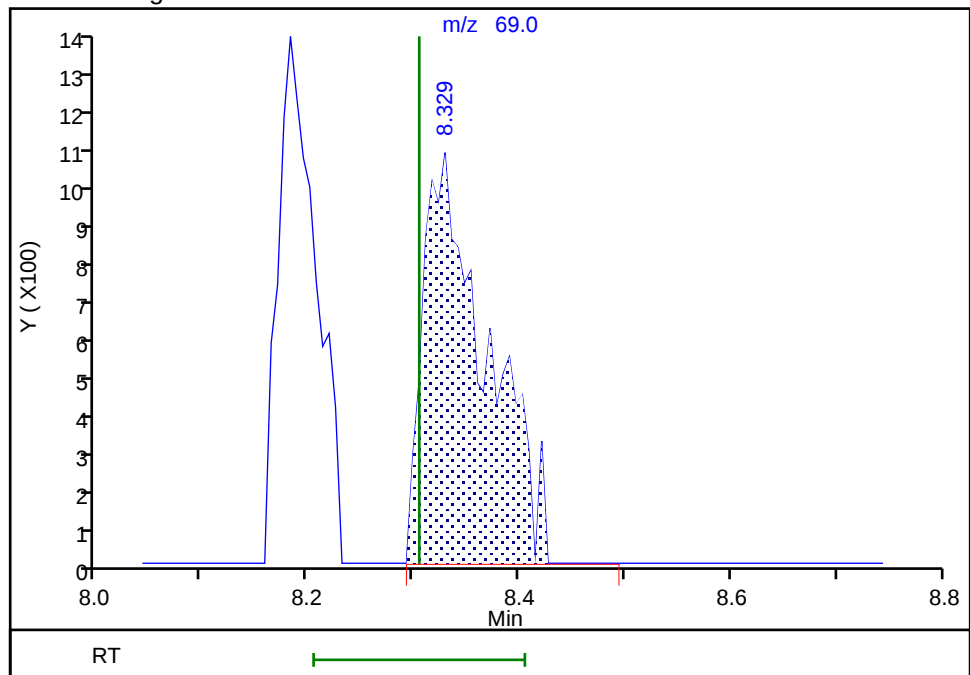
RT: 8.33
Area: 3389
Amount: 0.163585
Amount Units: ug/l

Processing Integration Results



RT: 8.33
Area: 4261
Amount: 0.207303
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:31:19 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X13.D
 Lims ID: IC std2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 23-Oct-2023 02:50:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0097328-014
 Misc. Info.: 0.5
 Operator ID: gaw91131 Instrument ID: 19930
 Sublist: chrom-8260 25ml HP31*sub2
 Method: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 31-Oct-2023 09:20:50 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1687

First Level Reviewer: DVW2

Date: 24-Oct-2023 08:33:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.831	1.825	0.006	99	38202	0.5000	0.5285	
4 Chloromethane	50	2.014	2.007	0.007	99	34255	0.5000	0.5050	
5 Vinyl chloride	62	2.123	2.117	0.006	86	34124	0.5000	0.5094	
6 Butadiene	39	2.129	2.123	0.006	91	38305	0.5000	0.5857	M
7 Bromomethane	94	2.428	2.422	0.006	91	27117	0.5000	0.4945	
8 Chloroethane	64	2.501	2.501	0.000	98	19088	0.5000	0.4830	
9 Dichlorofluoromethane	67	2.721	2.721	0.000	97	61239	0.5000	0.5203	
10 Trichlorofluoromethane	101	2.788	2.788	0.000	90	49336	0.5000	0.5146	
11 Ethyl ether	59	3.001	2.995	0.006	89	16417	0.5001	0.4636	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.093	3.086	0.007	94	31690	0.5000	0.5144	
14 Acrolein	56	3.160	3.147	0.013	98	133519	25.0	24.9	
15 1,1-Dichloroethene	96	3.288	3.282	0.006	98	20487	0.5000	0.4869	
16 Acetone	43	3.312	3.306	0.006	100	39436	5.00	5.72	M
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.330	3.330	0.000	76	20062	0.5000	0.4467	
18 Iodomethane	142	3.471	3.464	0.007	100	42360	0.5000	0.4615	
19 Ethyl bromide	108	3.489	3.489	0.000	99	18519	0.4995	0.4482	
20 Carbon disulfide	76	3.574	3.568	0.006	100	55469	0.5000	0.4666	
23 Methyl acetate	43	3.733	3.696	0.037	30	6454	0.5000	0.4013	M
24 3-Chloro-1-propene	41	3.727	3.714	0.013	86	32371	0.5000	0.4811	
25 Methylene Chloride	84	3.897	3.891	0.006	70	21721	0.5000	0.4630	
* 26 t-Butyl alcohol-d10 (IS)	65	3.897	3.910	-0.013	60	152001	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.013	4.013	0.000	99	30917	10.0	11.9	
28 Acrylonitrile	53	4.257	4.202	0.055	81	8583	1.25	1.09	
29 Methyl tert-butyl ether	73	4.281	4.263	0.018	95	59179	0.5000	0.4605	
30 trans-1,2-Dichloroethene	96	4.287	4.281	0.006	98	22328	0.5000	0.4603	
31 Hexane	57	4.702	4.702	0.000	92	25099	0.5000	0.4399	
32 1,1-Dichloroethane	63	4.946	4.940	0.006	96	39927	0.5000	0.4621	
35 Isopropyl ether	45	5.001	5.001	0.000	93	65694	0.5000	0.4700	
36 2-Chloro-1,3-butadiene	53	5.062	5.050	0.012	93	35354	0.5000	0.4697	
37 Tert-butyl ethyl ether	59	5.537	5.549	-0.012	97	67685	0.5000	0.4712	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2-Butanone (MEK)	43	5.769	5.751	0.018	94	49340	5.00	4.08	
39 cis-1,2-Dichloroethene	96	5.787	5.781	0.006	82	25189	0.5000	0.4535	
40 2,2-Dichloropropane	77	5.793	5.799	-0.006	73	38376	0.5000	0.4582	
43 Propionitrile	54	5.860	5.836	0.024	97	29577	10.0	9.11	
45 Methacrylonitrile	67	6.068	6.055	0.013	91	57720	5.00	4.85	
46 Chlorobromomethane	128	6.122	6.116	0.006	81	11517	0.5000	0.4506	
47 Tetrahydrofuran	71	6.141	6.135	0.006	77	9118	2.50	2.51	
S 41 1,2-Dichloroethene, Total	100				0			0.9138	
48 Chloroform	83	6.275	6.275	0.000	94	45076	0.5000	0.4728	
\$ 49 Dibromofluoromethane (Surr)	113	6.494	6.488	0.006	94	477359	10.0	9.94	
50 1,1,1-Trichloroethane	97	6.500	6.500	0.000	39	41724	0.5000	0.4703	
51 Cyclohexane	56	6.604	6.604	0.000	91	33646	0.5000	0.4551	
54 Carbon tetrachloride	117	6.720	6.714	0.006	95	36951	0.5000	0.4636	
53 1,1-Dichloropropene	75	6.732	6.720	0.012	93	31587	0.5000	0.4621	
55 Isobutyl alcohol	41	6.897	6.878	0.019	88	22243	25.0	25.0	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.952	6.952	0.000	67	93525	10.0	9.92	
57 Benzene	78	6.982	6.982	0.000	96	92523	0.5000	0.4616	
58 1,2-Dichloroethane	62	7.055	7.055	0.000	96	29158	0.5000	0.4699	
60 Tert-amyl methyl ether	73	7.183	7.177	0.006	97	61867	0.5000	0.4573	
* 61 Fluorobenzene (IS)	96	7.391	7.397	-0.006	99	1823738	10.0	10.0	
62 n-Heptane	43	7.409	7.409	0.000	56	23410	0.5000	0.4016	
63 n-Butanol	56	7.811	7.781	0.030	88	28515	43.8	43.9	
64 Trichloroethene	95	7.884	7.878	0.006	97	25913	0.5000	0.4554	
65 Methylcyclohexane	83	8.189	8.189	0.000	88	37500	0.5000	0.4431	
66 1,2-Dichloropropane	63	8.214	8.214	0.000	88	21974	0.5000	0.4511	
67 Methyl methacrylate	69	8.323	8.305	0.018	94	10995	0.5000	0.4761	
68 1,4-Dioxane	88	8.329	8.317	0.012	36	1875	25.0	12.3	
69 Dibromomethane	93	8.329	8.323	0.006	91	12337	0.5000	0.4632	
71 Dichlorobromomethane	83	8.561	8.567	-0.006	97	30839	0.5000	0.4585	
72 2-Nitropropane	41	8.835	8.829	0.006	97	19744	2.50	2.33	
75 1-Bromo-2-chloroethane	63	8.970	8.957	0.013	97	21861	0.5000	0.4359	
76 cis-1,3-Dichloropropene	75	9.128	9.128	0.000	93	34030	0.5000	0.4454	
77 4-Methyl-2-pentanone (MIBK)	43	9.311	9.311	0.000	96	147811	5.00	4.61	
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	94	1861074	10.0	10.0	
79 Toluene	92	9.530	9.530	0.000	98	62898	0.5000	0.4590	
97 trans-1,3-Dichloropropene	75	9.811	9.805	0.006	96	27874	0.5000	0.4335	
99 Ethyl methacrylate	69	9.884	9.872	0.012	87	23956	0.5000	0.4444	
100 1,1,2-Trichloroethane	97	10.012	10.012	0.000	91	17323	0.5000	0.4538	
S 98 1,3-Dichloropropene, Total	100				0			0.8789	
101 Tetrachloroethene	166	10.103	10.103	0.000	97	32524	0.5000	0.4580	
102 1,3-Dichloropropane	76	10.183	10.183	0.000	91	28433	0.5000	0.4604	
103 2-Hexanone	43	10.244	10.238	0.006	96	104331	5.00	4.54	
105 Chlorodibromomethane	129	10.402	10.402	0.000	88	22630	0.5000	0.4447	
106 Ethylene Dibromide	107	10.518	10.512	0.006	97	16859	0.5000	0.4591	
* 107 Chlorobenzene-d5 (IS)	117	10.957	10.957	0.000	85	1450931	10.0	10.0	
108 1-Chlorohexane	91	10.969	10.969	0.000	96	37155	0.5000	0.4840	
109 Chlorobenzene	112	10.981	10.981	0.000	96	72039	0.5000	0.4583	
111 1,1,1,2-Tetrachloroethane	131	11.067	11.067	0.000	92	26169	0.5000	0.4449	
112 Ethylbenzene	91	11.073	11.073	0.000	98	121235	0.5000	0.4500	
113 m-Xylene & p-Xylene	106	11.189	11.189	0.000	93	98007	1.00	0.9063	
S 110 Xylenes, Total	106				0			1.36	
114 o-Xylene	106	11.524	11.524	0.000	96	48207	0.5000	0.4492	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Styrene	104	11.542	11.542	0.000	94	73395	0.5000	0.4353	
116 Bromoform	173	11.701	11.695	0.006	96	14980	0.5000	0.4363	
117 Isopropylbenzene	105	11.829	11.829	0.000	95	120963	0.5000	0.4561	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.975	11.975	0.000	96	694608	10.0	9.91	
121 1,1,2,2-Tetrachloroethane	83	12.079	12.079	0.000	95	22156	0.5000	0.4570	
122 Bromobenzene	156	12.091	12.091	0.000	90	32623	0.5000	0.4574	
123 trans-1,4-Dichloro-2-butene	53	12.103	12.103	0.000	96	62031	5.00	4.70	
124 1,2,3-Trichloropropane	110	12.121	12.121	0.000	80	6389	0.5000	0.4516	
125 N-Propylbenzene	91	12.164	12.164	0.000	99	144377	0.5000	0.4565	
126 2-Chlorotoluene	126	12.237	12.237	0.000	96	30927	0.5000	0.4555	
127 1,3,5-Trimethylbenzene	105	12.298	12.298	0.000	94	105449	0.5000	0.4468	
128 4-Chlorotoluene	126	12.335	12.329	0.006	97	30986	0.5000	0.4548	
129 tert-Butylbenzene	134	12.542	12.542	0.000	92	25631	0.5000	0.4496	
130 Pentachloroethane	167	12.572	12.572	0.000	77	19652	0.5000	0.4282	
131 1,2,4-Trimethylbenzene	105	12.585	12.585	0.000	97	105968	0.5000	0.4448	
132 sec-Butylbenzene	105	12.707	12.707	0.000	94	136483	0.5000	0.4526	
133 1,3-Dichlorobenzene	146	12.804	12.804	0.000	98	59881	0.5000	0.4416	
134 4-Isopropyltoluene	119	12.816	12.816	0.000	97	117457	0.5000	0.4419	
* 135 1,4-Dichlorobenzene-d4	152	12.859	12.859	0.000	94	872800	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.877	12.877	0.000	96	63874	0.5000	0.4564	
137 1,2,3-Trimethylbenzene	120	12.889	12.889	0.000	97	49531	0.5000	0.4576	
138 Benzyl chloride	126	12.957	12.957	0.000	99	8473	0.5000	0.4077	
139 n-Butylbenzene	92	13.109	13.109	0.000	97	51904	0.5000	0.4273	
140 1,2-Dichlorobenzene	146	13.139	13.139	0.000	98	57340	0.5000	0.4495	
142 1,2-Dibromo-3-Chloropropane	155	13.682	13.682	0.000	84	3257	0.5000	0.3868	
143 1,3,5-Trichlorobenzene	180	13.810	13.810	0.000	98	42500	0.5000	0.4279	
144 1,2,4-Trichlorobenzene	180	14.237	14.231	0.006	94	33778	0.5000	0.4189	
145 Hexachlorobutadiene	225	14.316	14.316	0.000	96	17403	0.5000	0.4491	
146 Naphthalene	128	14.414	14.407	0.007	97	62708	0.5000	0.4165	
147 1,2,3-Trichlorobenzene	180	14.554	14.554	0.000	96	28328	0.5000	0.4279	
165 Isopropyl alcohol	45		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00100	Amount Added: 2.00	Units: uL	
MSV_LL_#2_826_00109	Amount Added: 2.00	Units: uL	
MSV_LL_GAS826_00175	Amount Added: 2.00	Units: uL	
MSV_LLcentISS_00009	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 31-Oct-2023 09:20:50

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X13.D

Injection Date: 23-Oct-2023 02:50:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: IC std2

Worklist Smp#: 14

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

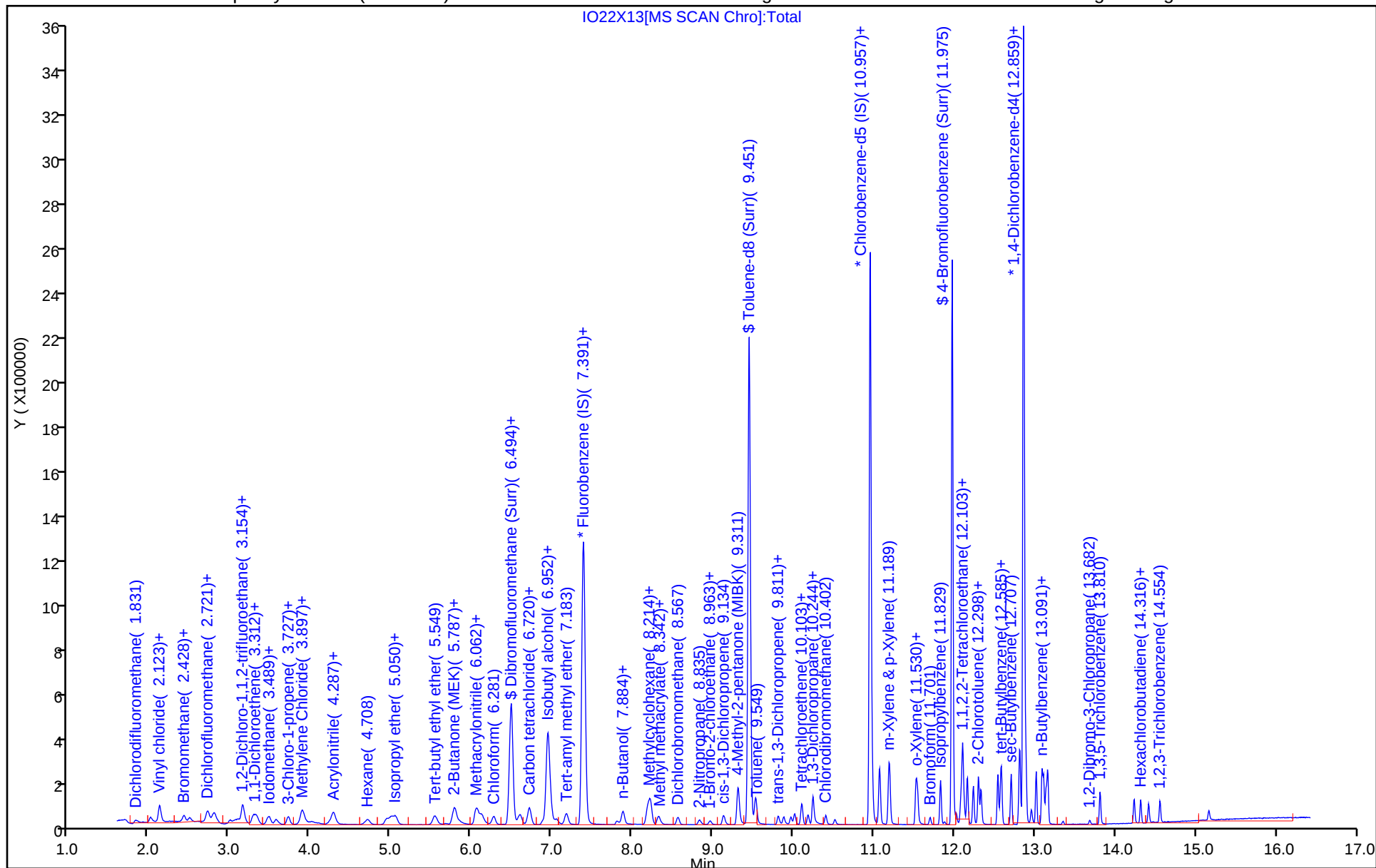
ALS Bottle#: 13

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

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



Eurofins Lancaster Laboratories Environment Testing, LLC

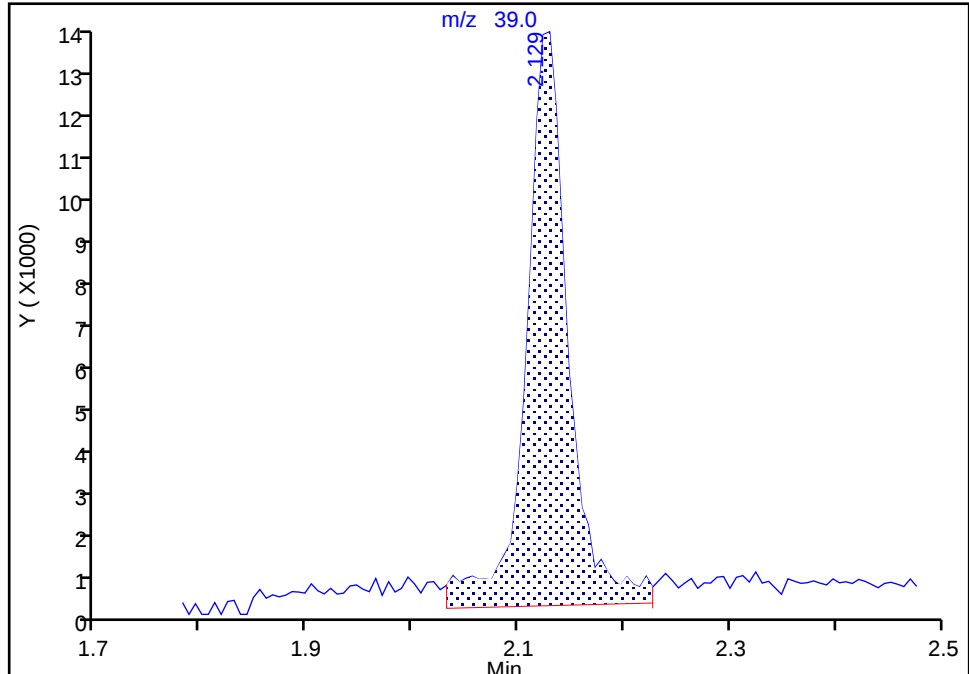
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Injection Date: 23-Oct-2023 02:50:30 Instrument ID: 19930
Lims ID: IC std2
Client ID:
Operator ID: gaw91131 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

6 Butadiene, CAS: 106-99-0

Signal: 1

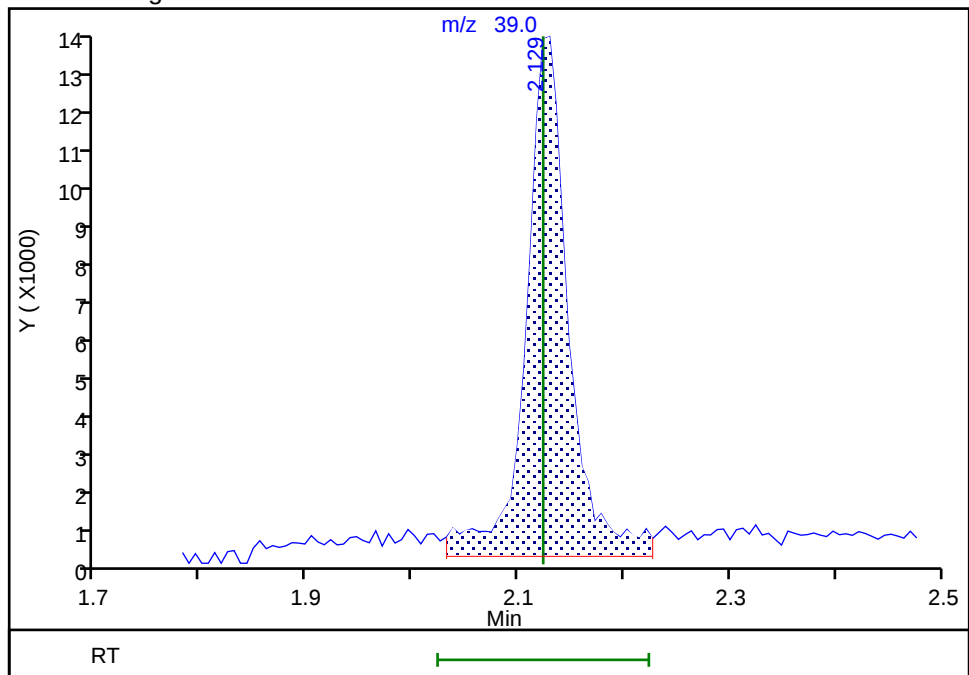
RT: 2.13
Area: 37545
Amount: 0.575997
Amount Units: ug/l

Processing Integration Results



RT: 2.13
Area: 38305
Amount: 0.585706
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:32:08 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

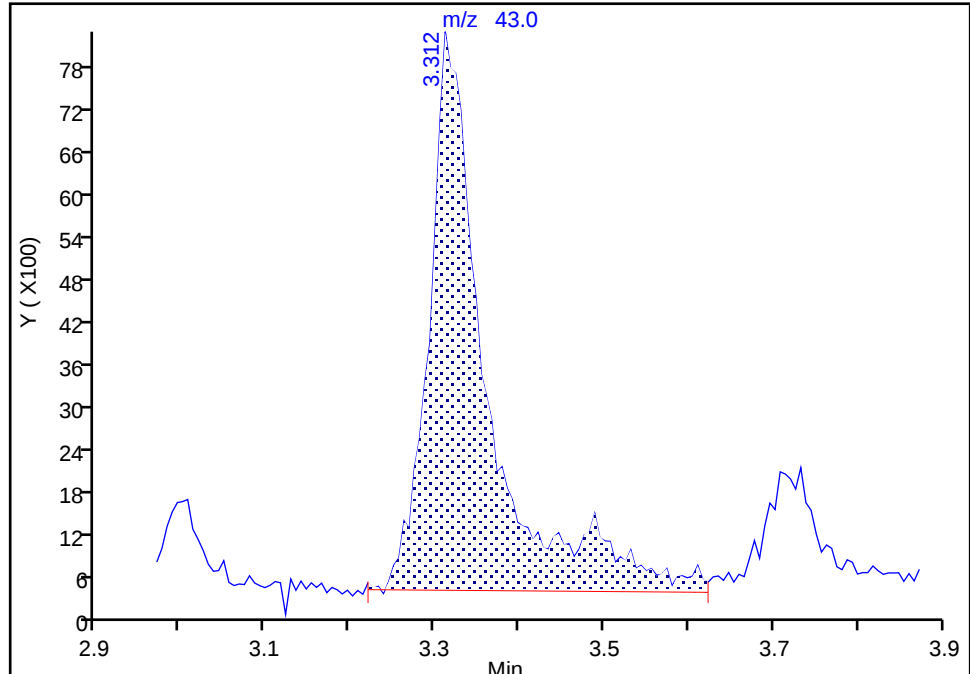
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Injection Date: 23-Oct-2023 02:50:30 Instrument ID: 19930
Lims ID: IC std2
Client ID:
Operator ID: gaw91131 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

16 Acetone, CAS: 67-64-1

Signal: 1

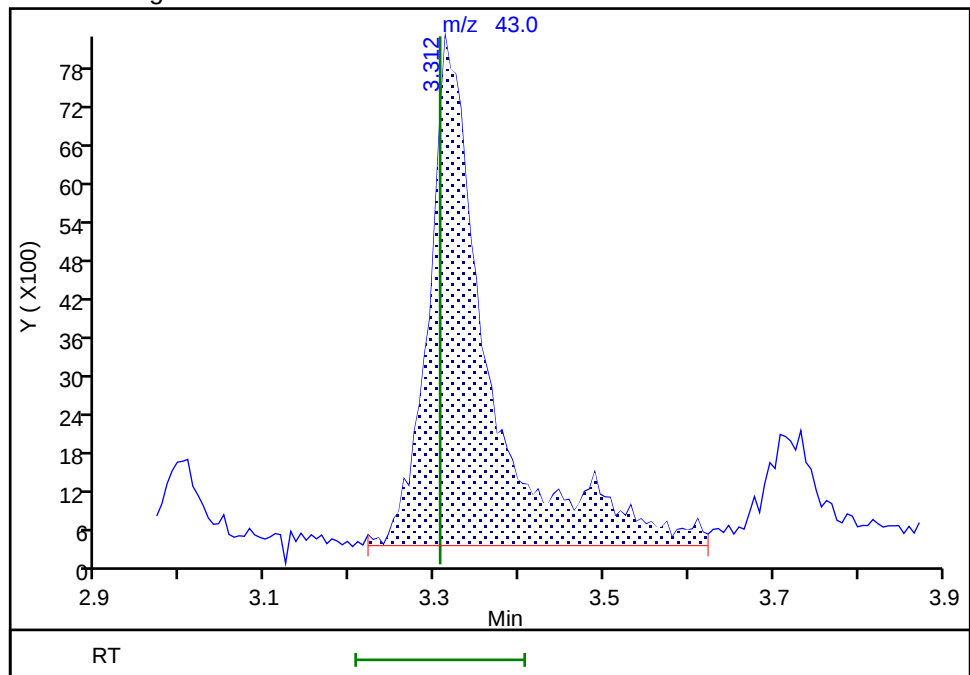
RT: 3.31
Area: 37928
Amount: 5.349897
Amount Units: ug/l

Processing Integration Results



RT: 3.31
Area: 39436
Amount: 5.718431
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:32:18 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

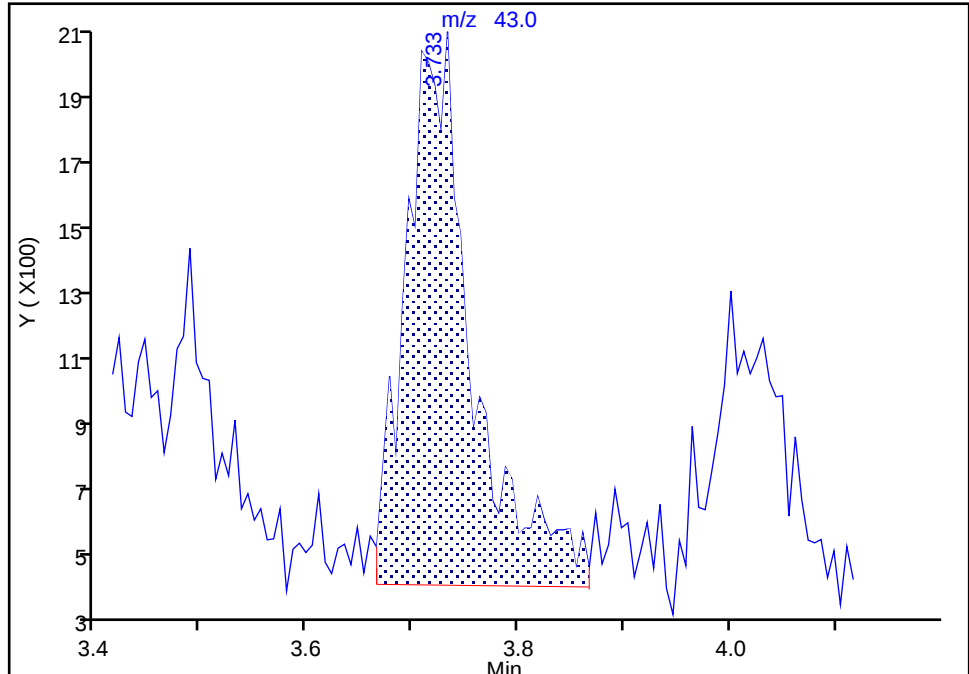
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Injection Date: 23-Oct-2023 02:50:30 Instrument ID: 19930
Lims ID: IC std2
Client ID:
Operator ID: gaw91131 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

23 Methyl acetate, CAS: 79-20-9

Signal: 1

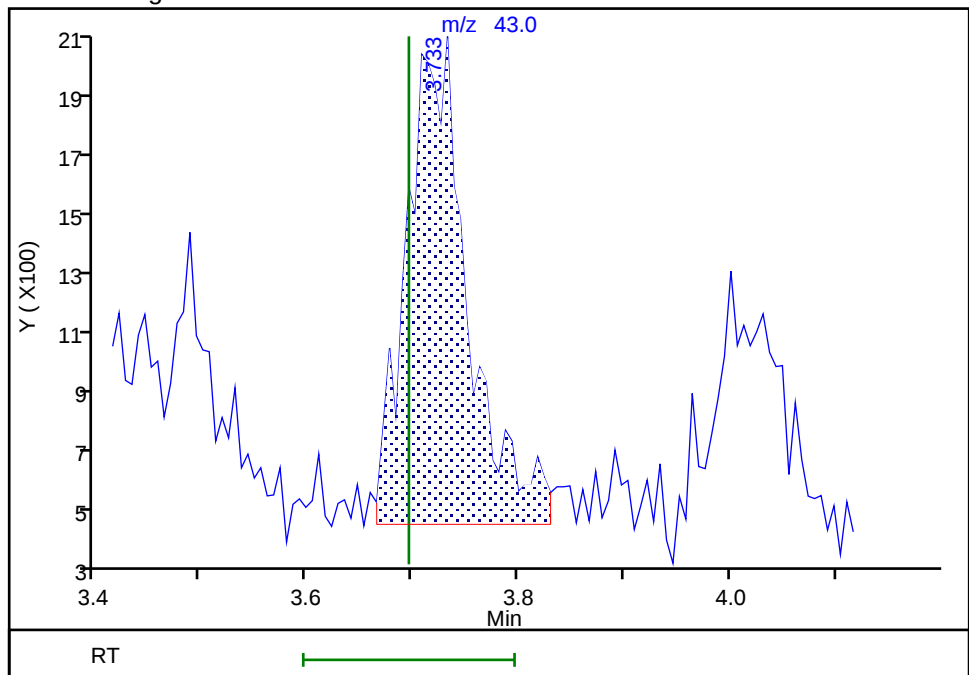
RT: 3.73
Area: 7242
Amount: 0.410538
Amount Units: ug/l

Processing Integration Results



RT: 3.73
Area: 6454
Amount: 0.401296
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:48:00 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

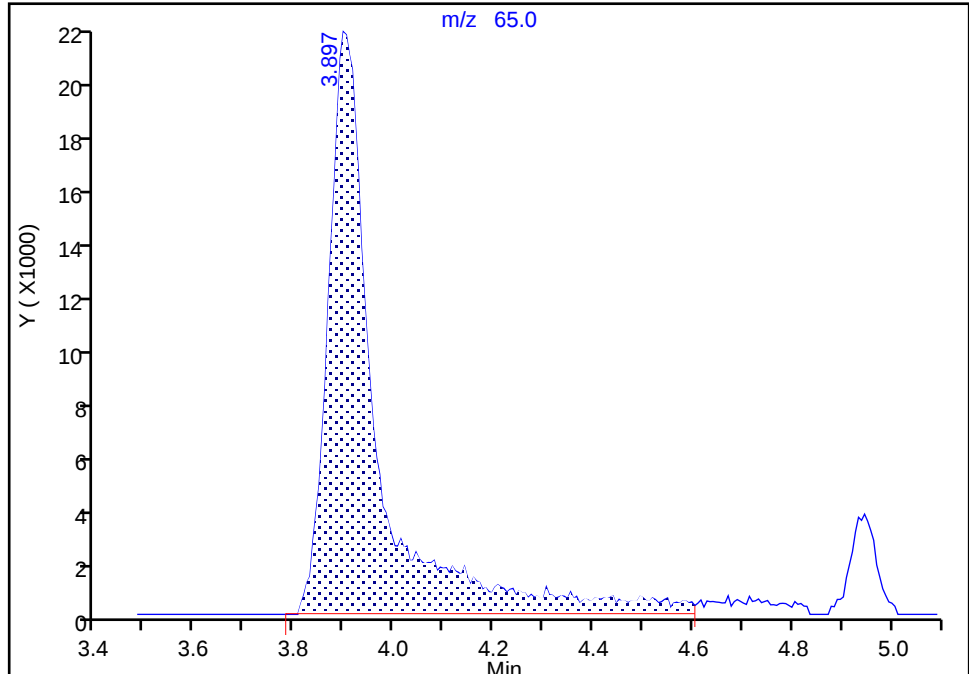
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Injection Date: 23-Oct-2023 02:50:30 Instrument ID: 19930
Lims ID: IC std2
Client ID:
Operator ID: gaw91131 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

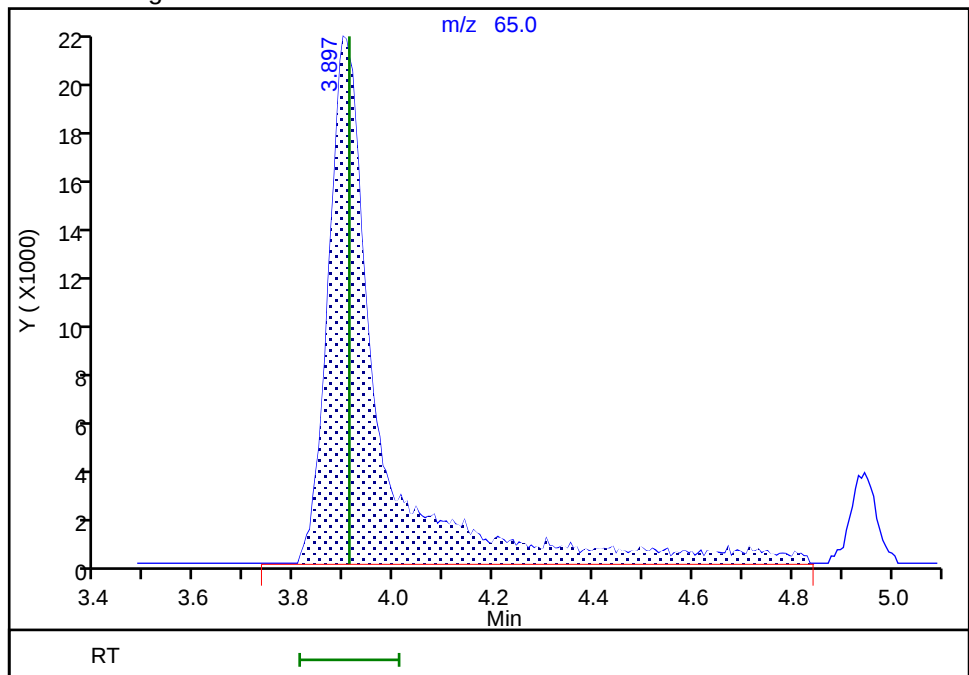
RT: 3.90
Area: 146179
Amount: 50.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.90
Area: 152001
Amount: 50.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:32:27 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X14.D
 Lims ID: IC std3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 23-Oct-2023 03:11:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0097328-015
 Misc. Info.: 1.0
 Operator ID: gaw91131 Instrument ID: 19930
 Sublist: chrom-8260 25ml HP31*sub2
 Method: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 31-Oct-2023 09:20:55 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1687

First Level Reviewer: DVW2

Date: 24-Oct-2023 08:34:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.825	1.825	0.000	99	73716	1.00	1.11	
4 Chloromethane	50	2.007	2.007	0.000	99	64084	1.00	1.03	
5 Vinyl chloride	62	2.117	2.117	0.000	83	63787	1.00	1.03	
6 Butadiene	39	2.123	2.123	0.000	93	62623	1.00	1.04	
7 Bromomethane	94	2.422	2.422	0.000	91	50465	1.00	1.00	
8 Chloroethane	64	2.501	2.501	0.000	100	37385	1.00	1.03	
9 Dichlorofluoromethane	67	2.721	2.721	0.000	97	109162	1.00	1.01	
10 Trichlorofluoromethane	101	2.788	2.788	0.000	97	94800	1.00	1.07	
11 Ethyl ether	59	2.995	2.995	0.000	89	33715	1.00	1.03	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.080	3.086	-0.006	89	59591	1.00	1.05	
14 Acrolein	56	3.154	3.147	0.007	99	271195	50.0	51.6	
15 1,1-Dichloroethene	96	3.282	3.282	0.000	98	40351	1.00	1.04	
16 Acetone	43	3.312	3.306	0.006	99	70704	10.0	10.5	M
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.330	3.330	0.000	89	45529	1.00	1.10	
18 Iodomethane	142	3.465	3.464	0.000	100	87301	1.00	1.03	
19 Ethyl bromide	108	3.489	3.489	0.000	99	40465	1.00	1.06	
20 Carbon disulfide	76	3.568	3.568	0.000	100	114933	1.00	1.05	
23 Methyl acetate	43	3.702	3.696	0.006	28	15762	1.00	1.00	M
24 3-Chloro-1-propene	41	3.714	3.714	0.000	88	63625	1.00	1.03	
25 Methylene Chloride	84	3.891	3.891	0.000	91	44291	1.00	1.03	
* 26 t-Butyl alcohol-d10 (IS)	65	3.910	3.910	0.000	94	149118	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.019	4.013	0.006	98	60151	20.0	23.6	
28 Acrylonitrile	53	4.233	4.202	0.031	96	18004	2.50	2.33	
29 Methyl tert-butyl ether	73	4.269	4.263	0.006	96	121343	1.00	1.03	
30 trans-1,2-Dichloroethene	96	4.281	4.281	0.000	98	47008	1.00	1.05	
31 Hexane	57	4.708	4.702	0.006	94	58232	1.00	1.11	
32 1,1-Dichloroethane	63	4.940	4.940	0.000	96	82022	1.00	1.03	
35 Isopropyl ether	45	5.007	5.001	0.006	92	132733	1.00	1.03	
36 2-Chloro-1,3-butadiene	53	5.050	5.050	0.000	93	73008	1.00	1.05	
37 Tert-butyl ethyl ether	59	5.543	5.549	-0.006	97	135116	1.00	1.02	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2-Butanone (MEK)	43	5.769	5.751	0.018	100	113088	10.0	9.53	
39 cis-1,2-Dichloroethene	96	5.781	5.781	0.000	83	52224	1.00	1.02	
40 2,2-Dichloropropane	77	5.793	5.799	-0.006	72	79747	1.00	1.03	
43 Propionitrile	54	5.854	5.836	0.018	97	62777	20.0	19.7	
45 Methacrylonitrile	67	6.062	6.055	0.007	90	114313	10.0	9.78	
46 Chlorobromomethane	128	6.129	6.116	0.013	87	23883	1.00	1.02	
47 Tetrahydrofuran	71	6.135	6.135	0.000	79	17661	5.00	4.95	
S 41 1,2-Dichloroethene, Total	100				0			2.07	
48 Chloroform	83	6.275	6.275	0.000	94	89727	1.00	1.02	
\$ 49 Dibromofluoromethane (Surr)	113	6.488	6.488	0.000	94	442289	10.0	10.0	
50 1,1,1-Trichloroethane	97	6.501	6.500	0.000	98	86578	1.00	1.06	
51 Cyclohexane	56	6.598	6.604	-0.006	90	75643	1.00	1.11	
54 Carbon tetrachloride	117	6.720	6.714	0.006	95	77262	1.00	1.05	
53 1,1-Dichloropropene	75	6.720	6.720	0.000	92	65781	1.00	1.05	
55 Isobutyl alcohol	41	6.885	6.878	0.007	92	45573	50.0	52.3	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.952	6.952	0.000	69	86247	10.0	9.94	
57 Benzene	78	6.982	6.982	0.000	94	190831	1.00	1.03	
58 1,2-Dichloroethane	62	7.055	7.055	0.000	98	58428	1.00	1.02	
60 Tert-amyl methyl ether	73	7.177	7.177	0.000	98	128238	1.00	1.03	
* 61 Fluorobenzene (IS)	96	7.391	7.397	-0.006	99	1679039	10.0	10.0	
62 n-Heptane	43	7.409	7.409	0.000	92	57978	1.00	1.08	
63 n-Butanol	56	7.799	7.781	0.018	91	60675	87.5	95.2	
64 Trichloroethene	95	7.878	7.878	0.000	96	54493	1.00	1.04	
65 Methylcyclohexane	83	8.189	8.189	0.000	90	85598	1.00	1.10	
66 1,2-Dichloropropane	63	8.207	8.214	-0.007	89	46550	1.00	1.04	
67 Methyl methacrylate	69	8.317	8.305	0.012	86	20755	1.00	0.9161	
68 1,4-Dioxane	88	8.317	8.317	0.000	32	7586	50.0	50.7	
69 Dibromomethane	93	8.329	8.323	0.006	89	25027	1.00	1.02	
71 Dichlorobromomethane	83	8.561	8.567	-0.006	98	62138	1.00	1.00	
72 2-Nitropropane	41	8.835	8.829	0.006	100	40819	5.00	4.91	
75 1-Bromo-2-chloroethane	63	8.963	8.957	0.006	98	48268	1.00	1.05	
76 cis-1,3-Dichloropropene	75	9.134	9.128	0.006	94	70469	1.00	1.00	
77 4-Methyl-2-pentanone (MIBK)	43	9.311	9.311	0.000	96	305204	10.0	9.71	
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	94	1704330	10.0	10.1	
79 Toluene	92	9.530	9.530	0.000	98	129485	1.00	1.03	
97 trans-1,3-Dichloropropene	75	9.811	9.805	0.006	94	59356	1.00	1.01	
99 Ethyl methacrylate	69	9.878	9.872	0.006	88	49252	1.00	1.00	
100 1,1,2-Trichloroethane	97	10.012	10.012	0.000	91	35911	1.00	1.03	
S 98 1,3-Dichloropropene, Total	100				0			2.01	
101 Tetrachloroethene	166	10.103	10.103	0.000	98	68627	1.00	1.06	
102 1,3-Dichloropropane	76	10.183	10.183	0.000	92	57592	1.00	1.02	
103 2-Hexanone	43	10.238	10.238	0.000	97	218383	10.0	9.68	
105 Chlorodibromomethane	129	10.402	10.402	0.000	89	47000	1.00	1.01	
106 Ethylene Dibromide	107	10.512	10.512	0.000	98	34099	1.00	1.02	
* 107 Chlorobenzene-d5 (IS)	117	10.957	10.957	0.000	85	1325766	10.0	10.0	
108 1-Chlorohexane	91	10.969	10.969	0.000	97	72205	1.00	1.03	
109 Chlorobenzene	112	10.981	10.981	0.000	96	148374	1.00	1.03	
111 1,1,1,2-Tetrachloroethane	131	11.067	11.067	0.000	94	55031	1.00	1.02	
112 Ethylbenzene	91	11.073	11.073	0.000	98	255619	1.00	1.04	
113 m-Xylene & p-Xylene	106	11.189	11.189	0.000	93	204895	2.00	2.07	
S 110 Xylenes, Total	106				0			3.10	
114 o-Xylene	106	11.524	11.524	0.000	96	100990	1.00	1.03	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Styrene	104	11.542	11.542	0.000	95	157402	1.00	1.02	
116 Bromoform	173	11.695	11.695	0.000	96	30628	1.00	0.9763	
117 Isopropylbenzene	105	11.829	11.829	0.000	96	252066	1.00	1.04	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.975	11.975	0.000	96	648639	10.0	10.1	
121 1,1,2,2-Tetrachloroethane	83	12.079	12.079	0.000	95	44886	1.00	1.00	
122 Bromobenzene	156	12.091	12.091	0.000	93	66727	1.00	1.01	
123 trans-1,4-Dichloro-2-butene	53	12.103	12.103	0.000	96	127621	10.0	9.85	
124 1,2,3-Trichloropropane	110	12.121	12.121	0.000	81	13081	1.00	1.00	
125 N-Propylbenzene	91	12.158	12.164	-0.006	99	296563	1.00	1.02	
126 2-Chlorotoluene	126	12.237	12.237	0.000	97	64503	1.00	1.03	
127 1,3,5-Trimethylbenzene	105	12.298	12.298	0.000	94	223094	1.00	1.03	
128 4-Chlorotoluene	126	12.329	12.329	0.000	98	63039	1.00	1.00	
129 tert-Butylbenzene	134	12.542	12.542	0.000	93	54476	1.00	1.04	
130 Pentachloroethane	167	12.572	12.572	0.000	77	42643	1.00	1.01	
131 1,2,4-Trimethylbenzene	105	12.585	12.585	0.000	97	223613	1.00	1.02	
132 sec-Butylbenzene	105	12.707	12.707	0.000	94	287150	1.00	1.03	
133 1,3-Dichlorobenzene	146	12.804	12.804	0.000	99	126531	1.00	1.01	
134 4-Isopropyltoluene	119	12.816	12.816	0.000	97	251380	1.00	1.03	
* 135 1,4-Dichlorobenzene-d4	152	12.859	12.859	0.000	94	804654	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.877	12.877	0.000	96	132639	1.00	1.03	
137 1,2,3-Trimethylbenzene	120	12.890	12.889	0.001	98	101206	1.00	1.01	
138 Benzyl chloride	126	12.957	12.957	0.000	99	19376	1.00	1.01	
139 n-Butylbenzene	92	13.109	13.109	0.000	97	113688	1.00	1.02	
140 1,2-Dichlorobenzene	146	13.139	13.139	0.000	98	118581	1.00	1.01	
142 1,2-Dibromo-3-Chloropropane	155	13.682	13.682	0.000	86	7562	1.00	0.9742	
143 1,3,5-Trichlorobenzene	180	13.810	13.810	0.000	98	90958	1.00	0.99	
144 1,2,4-Trichlorobenzene	180	14.237	14.231	0.006	94	72708	1.00	0.9782	
145 Hexachlorobutadiene	225	14.316	14.316	0.000	96	36344	1.00	1.02	
146 Naphthalene	128	14.414	14.407	0.007	97	128549	1.00	0.9261	
147 1,2,3-Trichlorobenzene	180	14.554	14.554	0.000	96	57343	1.00	0.9396	
165 Isopropyl alcohol	45		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00100	Amount Added: 2.00	Units: uL	
MSV_LL_#2_826_00109	Amount Added: 2.00	Units: uL	
MSV_LL_GAS826_00175	Amount Added: 2.00	Units: uL	
MSV_LLcentISS_00009	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 31-Oct-2023 09:20:55

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X14.D

Injection Date: 23-Oct-2023 03:11:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: IC std3

Worklist Smp#: 15

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

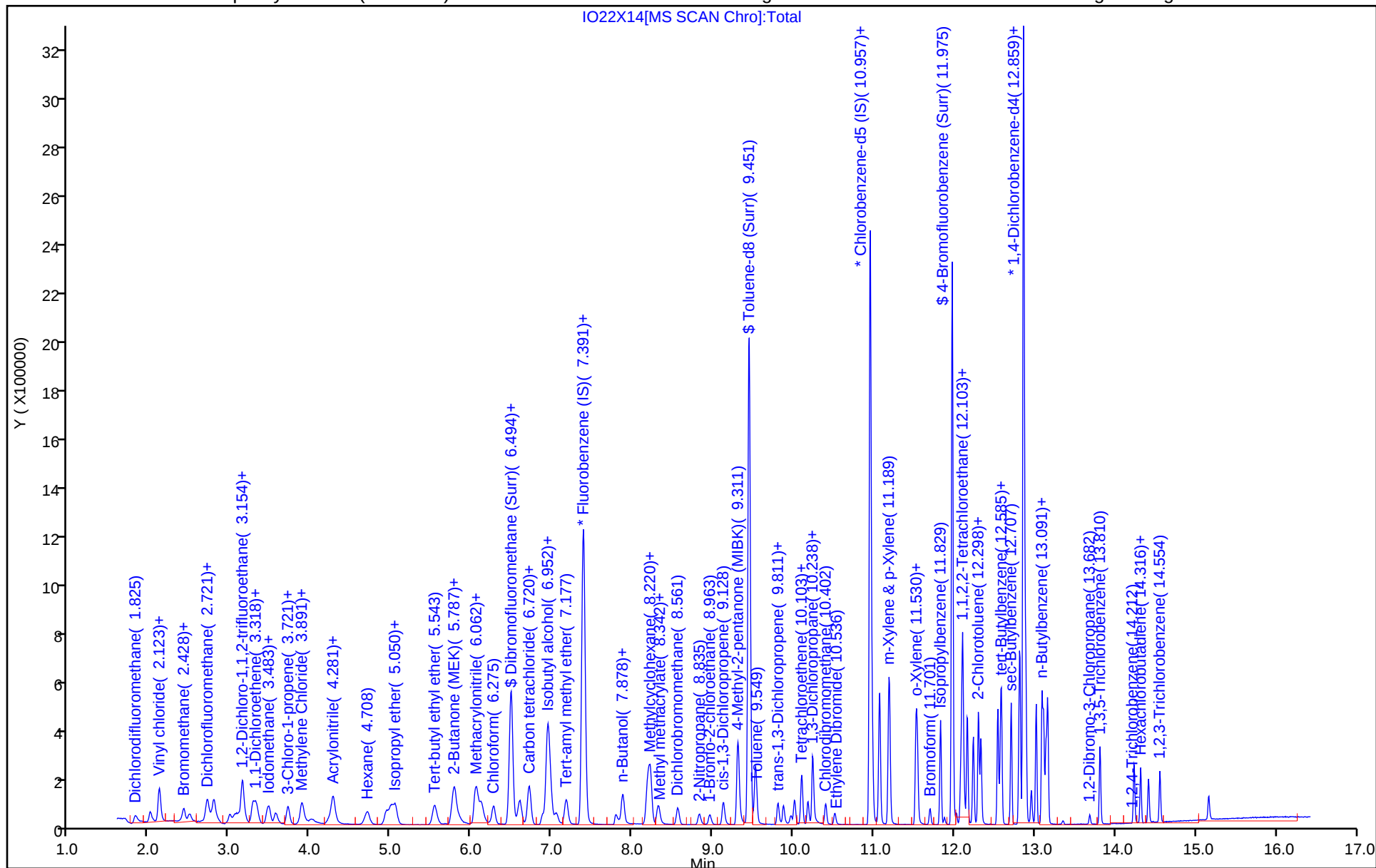
ALS Bottle#: 14

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

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



Eurofins Lancaster Laboratories Environment Testing, LLC

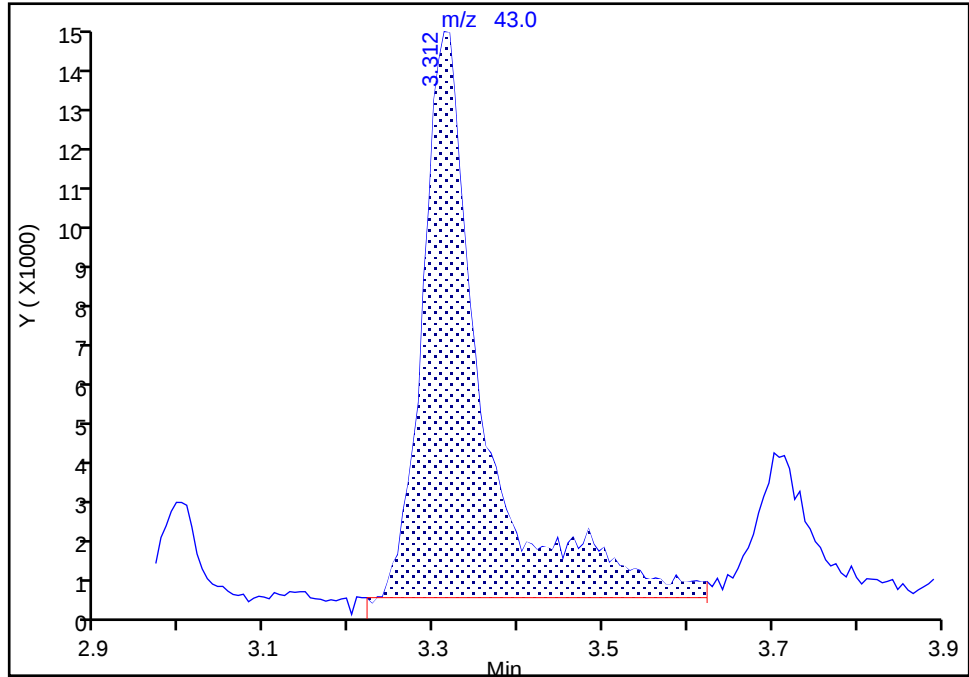
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Injection Date: 23-Oct-2023 03:11:30 Instrument ID: 19930
Lims ID: IC std3
Client ID:
Operator ID: gaw91131 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

16 Acetone, CAS: 67-64-1

Signal: 1

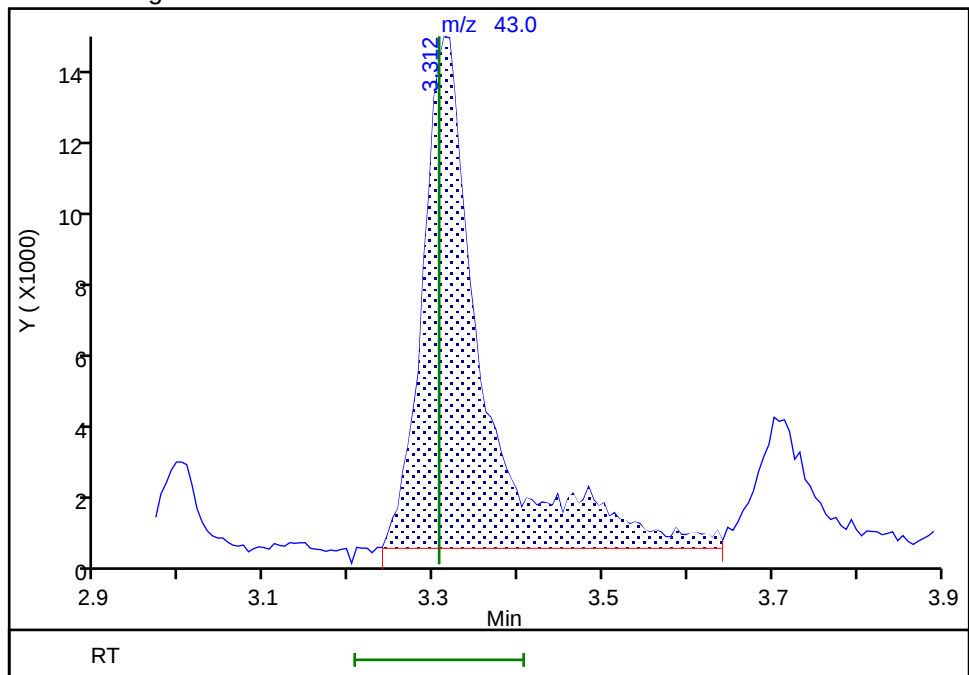
RT: 3.31
Area: 70748
Amount: 10.456208
Amount Units: ug/l

Processing Integration Results



RT: 3.31
Area: 70704
Amount: 10.450676
Amount Units: ug/l

Manual Integration Results



Reviewer: UKEK, 31-Oct-2023 08:41:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

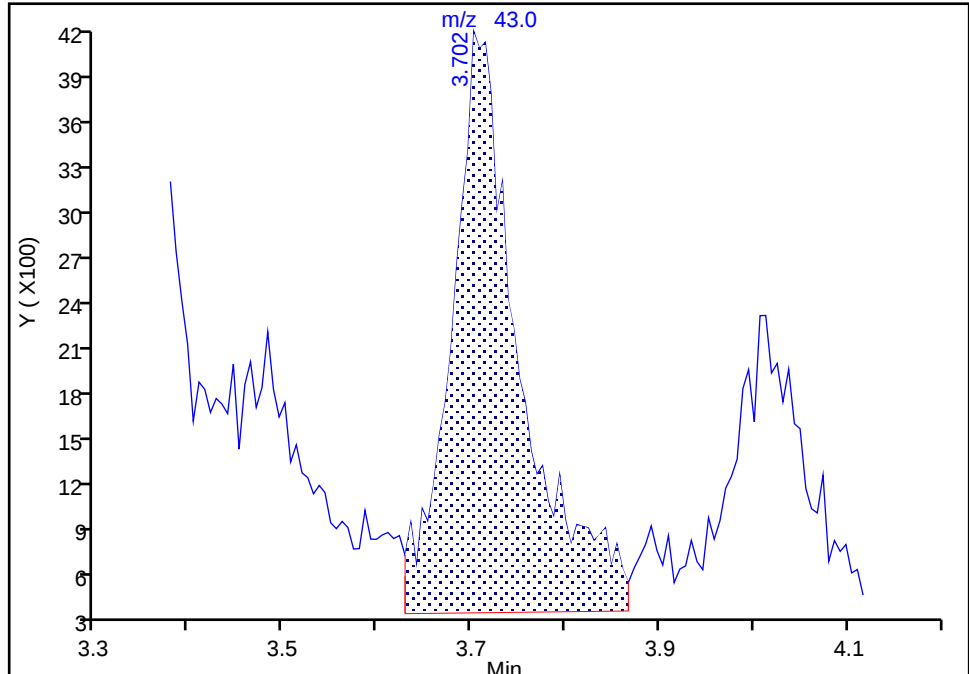
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Injection Date: 23-Oct-2023 03:11:30 Instrument ID: 19930
Lims ID: IC std3
Client ID:
Operator ID: gaw91131 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

23 Methyl acetate, CAS: 79-20-9

Signal: 1

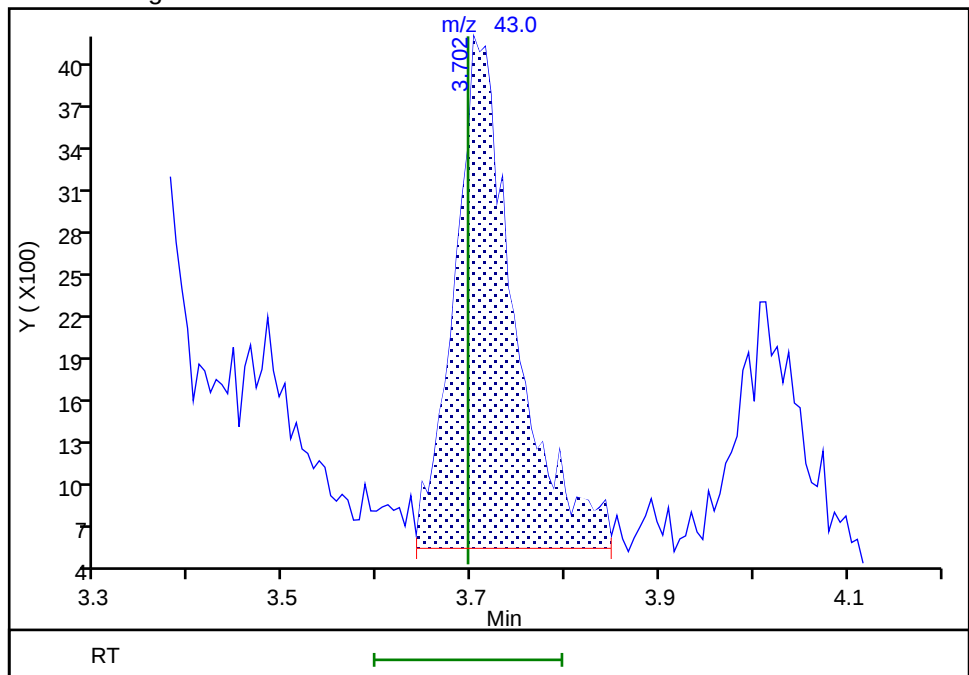
RT: 3.70
Area: 19330
Amount: 1.131415
Amount Units: ug/l

Processing Integration Results



RT: 3.70
Area: 15762
Amount: 0.998996
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:48:32 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

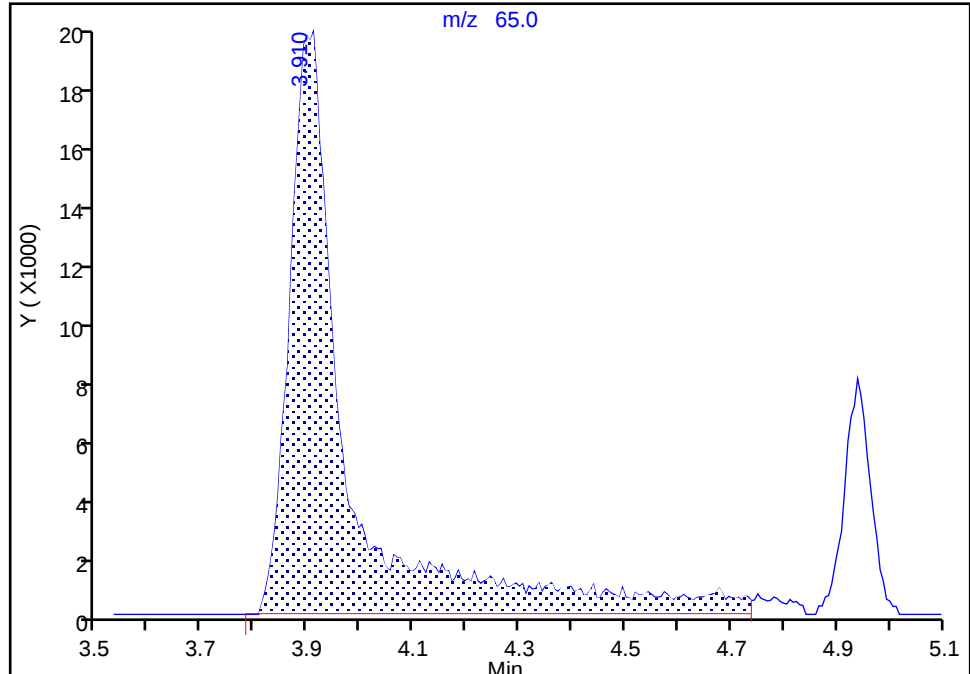
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Injection Date: 23-Oct-2023 03:11:30 Instrument ID: 19930
Lims ID: IC std3
Client ID:
Operator ID: gaw91131 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

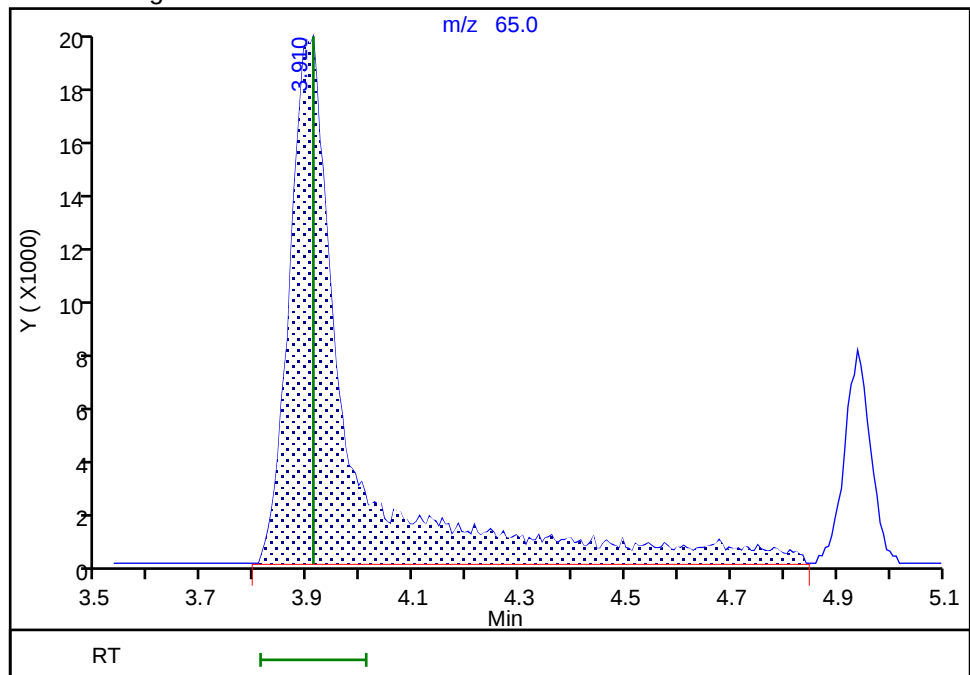
RT: 3.91
Area: 146499
Amount: 50.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.91
Area: 149118
Amount: 50.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:33:22 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X15.D
 Lims ID: IC std4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 23-Oct-2023 03:32:30 ALS Bottle#: 15 Worklist Smp#: 16
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0097328-016
 Misc. Info.: 2.0
 Operator ID: gaw91131 Instrument ID: 19930
 Sublist: chrom-8260 25ml HP31*sub2
 Method: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 31-Oct-2023 09:21:00 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1687

First Level Reviewer: DVW2

Date: 24-Oct-2023 08:35:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.825	1.825	0.000	99	139040	2.00	2.09	
4 Chloromethane	50	2.008	2.007	0.000	99	124674	2.00	1.99	
5 Vinyl chloride	62	2.117	2.117	0.000	98	125261	2.00	2.03	
6 Butadiene	39	2.123	2.123	0.000	93	126878	2.00	2.11	
7 Bromomethane	94	2.428	2.422	0.006	92	101133	2.00	2.00	
8 Chloroethane	64	2.501	2.501	0.000	100	73549	2.00	2.02	
9 Dichlorofluoromethane	67	2.721	2.721	0.000	97	218344	2.00	2.01	
10 Trichlorofluoromethane	101	2.782	2.788	-0.006	97	182231	2.00	2.06	
11 Ethyl ether	59	2.995	2.995	0.000	90	68312	2.00	2.09	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.093	3.086	0.007	89	115200	2.00	2.03	
14 Acrolein	56	3.154	3.147	0.007	98	529505	100.0	103.1	
15 1,1-Dichloroethene	96	3.282	3.282	0.000	98	79248	2.00	2.04	
16 Acetone	43	3.312	3.306	0.006	99	133946	20.0	20.2	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.324	3.330	-0.006	90	85608	2.00	2.07	
18 Iodomethane	142	3.465	3.464	0.001	100	174798	2.00	2.07	
19 Ethyl bromide	108	3.495	3.489	0.006	99	78751	2.00	2.07	
20 Carbon disulfide	76	3.568	3.568	0.000	100	223171	2.00	2.04	
23 Methyl acetate	43	3.708	3.696	0.012	28	33470	2.00	2.17	M
24 3-Chloro-1-propene	41	3.721	3.714	0.007	87	129334	2.00	2.09	
25 Methylene Chloride	84	3.891	3.891	0.000	91	90382	2.00	2.09	
* 26 t-Butyl alcohol-d10 (IS)	65	3.910	3.910	0.000	97	145821	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.019	4.013	0.006	99	98548	40.0	39.6	
28 Acrylonitrile	53	4.214	4.202	0.012	96	38659	5.00	5.11	
29 Methyl tert-butyl ether	73	4.269	4.263	0.006	96	242487	2.00	2.05	
30 trans-1,2-Dichloroethene	96	4.288	4.281	0.007	99	92207	2.00	2.06	
31 Hexane	57	4.708	4.702	0.006	94	107594	2.00	2.05	
32 1,1-Dichloroethane	63	4.940	4.940	0.000	96	168998	2.00	2.12	
35 Isopropyl ether	45	5.001	5.001	0.000	91	267282	2.00	2.08	
36 2-Chloro-1,3-butadiene	53	5.056	5.050	0.006	93	142411	2.00	2.05	
37 Tert-butyl ethyl ether	59	5.543	5.549	-0.006	97	274471	2.00	2.07	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2-Butanone (MEK)	43	5.757	5.751	0.006	99	237702	20.0	20.5	
39 cis-1,2-Dichloroethene	96	5.787	5.781	0.006	82	105614	2.00	2.06	
40 2,2-Dichloropropane	77	5.793	5.799	-0.006	72	156568	2.00	2.03	
43 Propionitrile	54	5.848	5.836	0.012	98	139142	40.0	44.7	
45 Methacrylonitrile	67	6.055	6.055	0.000	90	244456	20.0	21.4	
46 Chlorobromomethane	128	6.123	6.116	0.007	87	48974	2.00	2.08	
47 Tetrahydrofuran	71	6.141	6.135	0.006	78	35219	10.0	10.1	
S 41 1,2-Dichloroethene, Total	100				0			4.13	
48 Chloroform	83	6.275	6.275	0.000	94	179897	2.00	2.05	
\$ 49 Dibromofluoromethane (Surr)	113	6.488	6.488	0.000	94	445086	10.0	10.1	
50 1,1,1-Trichloroethane	97	6.501	6.500	0.001	97	169292	2.00	2.07	
51 Cyclohexane	56	6.604	6.604	0.000	90	140769	2.00	2.07	
54 Carbon tetrachloride	117	6.714	6.714	0.000	97	149567	2.00	2.04	
53 1,1-Dichloropropene	75	6.720	6.720	0.000	95	130490	2.00	2.07	
55 Isobutyl alcohol	41	6.891	6.878	0.013	93	79862	100.0	93.7	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.946	6.952	-0.006	71	87940	10.0	10.1	
57 Benzene	78	6.982	6.982	0.000	97	381657	2.00	2.07	
58 1,2-Dichloroethane	62	7.049	7.055	-0.006	98	119222	2.00	2.09	
60 Tert-amyl methyl ether	73	7.177	7.177	0.000	98	258470	2.00	2.07	
* 61 Fluorobenzene (IS)	96	7.391	7.397	-0.006	99	1680409	10.0	10.0	
62 n-Heptane	43	7.415	7.409	0.006	90	109059	2.00	2.03	
63 n-Butanol	56	7.799	7.781	0.018	91	109379	175.0	175.5	
64 Trichloroethene	95	7.878	7.878	0.000	96	107435	2.00	2.05	
65 Methylcyclohexane	83	8.189	8.189	0.000	90	159780	2.00	2.05	
66 1,2-Dichloropropane	63	8.208	8.214	-0.006	93	93477	2.00	2.08	
67 Methyl methacrylate	69	8.311	8.305	0.006	87	45991	2.00	2.08	
68 1,4-Dioxane	88	8.336	8.317	0.019	65	14605	100.0	99.9	
69 Dibromomethane	93	8.323	8.323	0.000	90	50717	2.00	2.07	
71 Dichlorobromomethane	83	8.561	8.567	-0.006	99	127627	2.00	2.06	
72 2-Nitropropane	41	8.829	8.829	0.000	100	85854	10.0	10.6	
75 1-Bromo-2-chloroethane	63	8.963	8.957	0.006	98	97019	2.00	2.10	
76 cis-1,3-Dichloropropene	75	9.128	9.128	0.000	94	146404	2.00	2.08	
77 4-Methyl-2-pentanone (MIBK)	43	9.311	9.311	0.000	96	666398	20.0	21.7	
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	94	1713893	10.0	10.0	
79 Toluene	92	9.530	9.530	0.000	98	259196	2.00	2.05	
97 trans-1,3-Dichloropropene	75	9.805	9.805	0.000	95	124640	2.00	2.10	
99 Ethyl methacrylate	69	9.872	9.872	0.000	88	104028	2.00	2.09	
100 1,1,2-Trichloroethane	97	10.018	10.012	0.006	92	73399	2.00	2.08	
S 98 1,3-Dichloropropene, Total	100				0			4.18	
101 Tetrachloroethene	166	10.103	10.103	0.000	98	135144	2.00	2.06	
102 1,3-Dichloropropane	76	10.183	10.183	0.000	92	118336	2.00	2.07	
103 2-Hexanone	43	10.238	10.238	0.000	96	455414	20.0	20.7	
105 Chlorodibromomethane	129	10.402	10.402	0.000	90	96461	2.00	2.05	
106 Ethylene Dibromide	107	10.518	10.512	0.006	99	70344	2.00	2.07	
* 107 Chlorobenzene-d5 (IS)	117	10.957	10.957	0.000	86	1340355	10.0	10.0	
108 1-Chlorohexane	91	10.969	10.969	0.000	97	138597	2.00	1.95	
109 Chlorobenzene	112	10.981	10.981	0.000	96	296038	2.00	2.04	
111 1,1,1,2-Tetrachloroethane	131	11.067	11.067	0.000	94	111704	2.00	2.06	
112 Ethylbenzene	91	11.073	11.073	0.000	98	512343	2.00	2.06	
113 m-Xylene & p-Xylene	106	11.189	11.189	0.000	93	413812	4.00	4.14	
S 110 Xylenes, Total	106				0			6.22	
114 o-Xylene	106	11.524	11.524	0.000	96	205832	2.00	2.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Styrene	104	11.542	11.542	0.000	95	324321	2.00	2.08	
116 Bromoform	173	11.701	11.695	0.006	97	64675	2.00	2.04	
117 Isopropylbenzene	105	11.829	11.829	0.000	96	502047	2.00	2.05	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.975	11.975	0.000	96	653439	10.0	10.1	
121 1,1,2,2-Tetrachloroethane	83	12.079	12.079	0.000	94	93416	2.00	2.07	
122 Bromobenzene	156	12.091	12.091	0.000	93	137963	2.00	2.08	
123 trans-1,4-Dichloro-2-butene	53	12.103	12.103	0.000	96	269437	20.0	21.3	
124 1,2,3-Trichloropropane	110	12.121	12.121	0.000	81	28002	2.00	2.12	
125 N-Propylbenzene	91	12.158	12.164	-0.006	99	612063	2.00	2.08	
126 2-Chlorotoluene	126	12.237	12.237	0.000	97	130102	2.00	2.06	
127 1,3,5-Trimethylbenzene	105	12.298	12.298	0.000	94	451575	2.00	2.05	
128 4-Chlorotoluene	126	12.329	12.329	0.000	98	132164	2.00	2.08	
129 tert-Butylbenzene	134	12.542	12.542	0.000	93	108694	2.00	2.05	
130 Pentachloroethane	167	12.573	12.572	0.000	90	89391	2.00	2.09	
131 1,2,4-Trimethylbenzene	105	12.585	12.585	0.000	97	459934	2.00	2.07	
132 sec-Butylbenzene	105	12.707	12.707	0.000	94	575149	2.00	2.05	
133 1,3-Dichlorobenzene	146	12.804	12.804	0.000	99	261341	2.00	2.07	
134 4-Isopropyltoluene	119	12.816	12.816	0.000	97	508038	2.00	2.05	
* 135 1,4-Dichlorobenzene-d4	152	12.859	12.859	0.000	94	813126	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.877	12.877	0.000	96	270568	2.00	2.08	
137 1,2,3-Trimethylbenzene	120	12.890	12.889	0.001	98	206220	2.00	2.04	
138 Benzyl chloride	126	12.957	12.957	0.000	99	40363	2.00	2.08	
139 n-Butylbenzene	92	13.109	13.109	0.000	97	228370	2.00	2.02	
140 1,2-Dichlorobenzene	146	13.139	13.139	0.000	99	248066	2.00	2.09	
142 1,2-Dibromo-3-Chloropropane	155	13.682	13.682	0.000	87	16498	2.00	2.10	
143 1,3,5-Trichlorobenzene	180	13.810	13.810	0.000	98	187870	2.00	2.03	
144 1,2,4-Trichlorobenzene	180	14.237	14.231	0.006	94	150478	2.00	2.00	
145 Hexachlorobutadiene	225	14.316	14.316	0.000	96	70649	2.00	1.96	
146 Naphthalene	128	14.414	14.407	0.007	97	293123	2.00	2.09	
147 1,2,3-Trichlorobenzene	180	14.554	14.554	0.000	96	125454	2.00	2.03	
165 Isopropyl alcohol	45		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00100	Amount Added: 2.00	Units: uL	
MSV_LL_#2_826_00109	Amount Added: 2.00	Units: uL	
MSV_LL_GAS826_00175	Amount Added: 2.00	Units: uL	
MSV_LLcentISS_00009	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 31-Oct-2023 09:21:01

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X15.D

Injection Date: 23-Oct-2023 03:32:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: IC std4

Worklist Smp#: 16

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

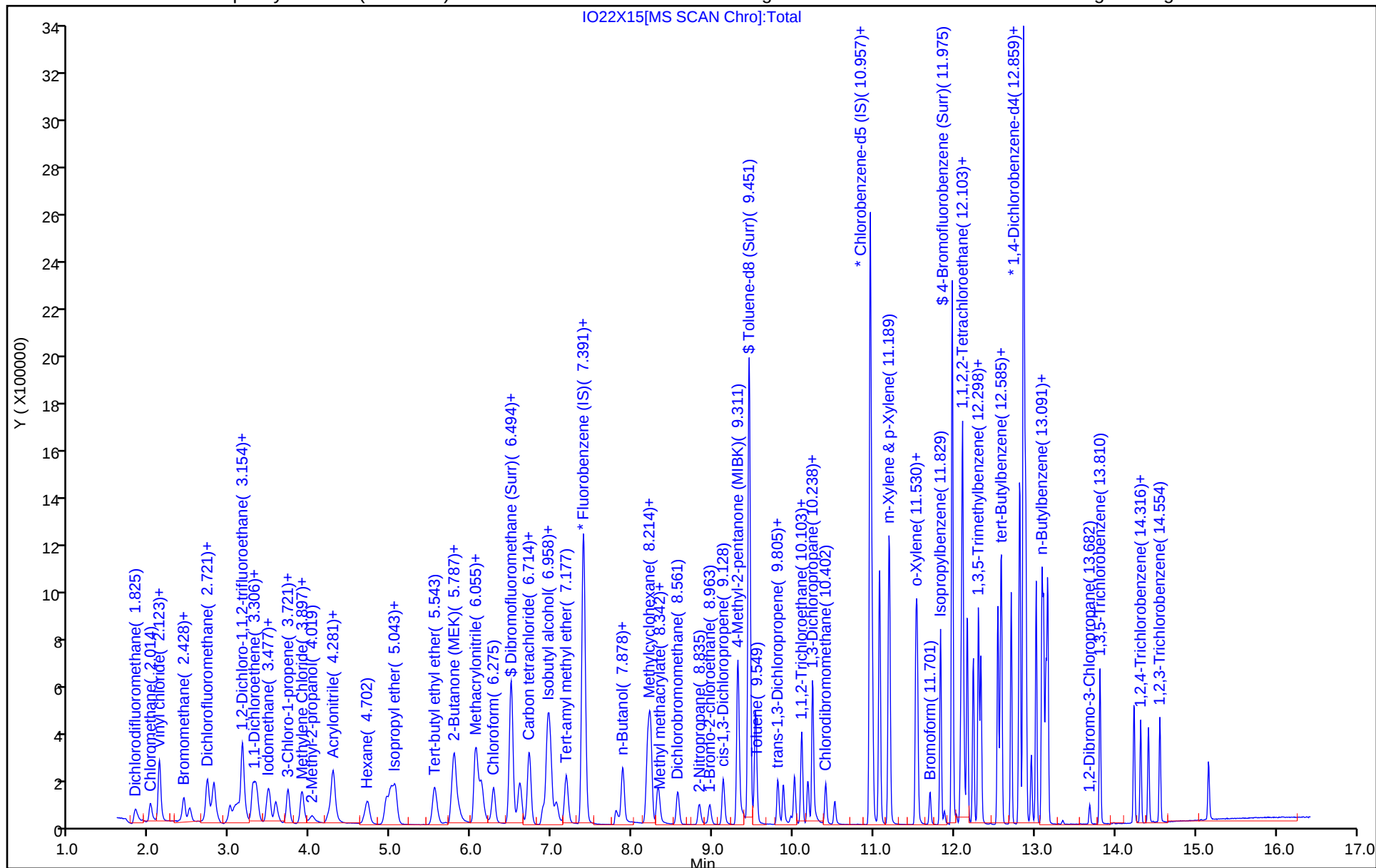
ALS Bottle#: 15

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

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



Eurofins Lancaster Laboratories Environment Testing, LLC

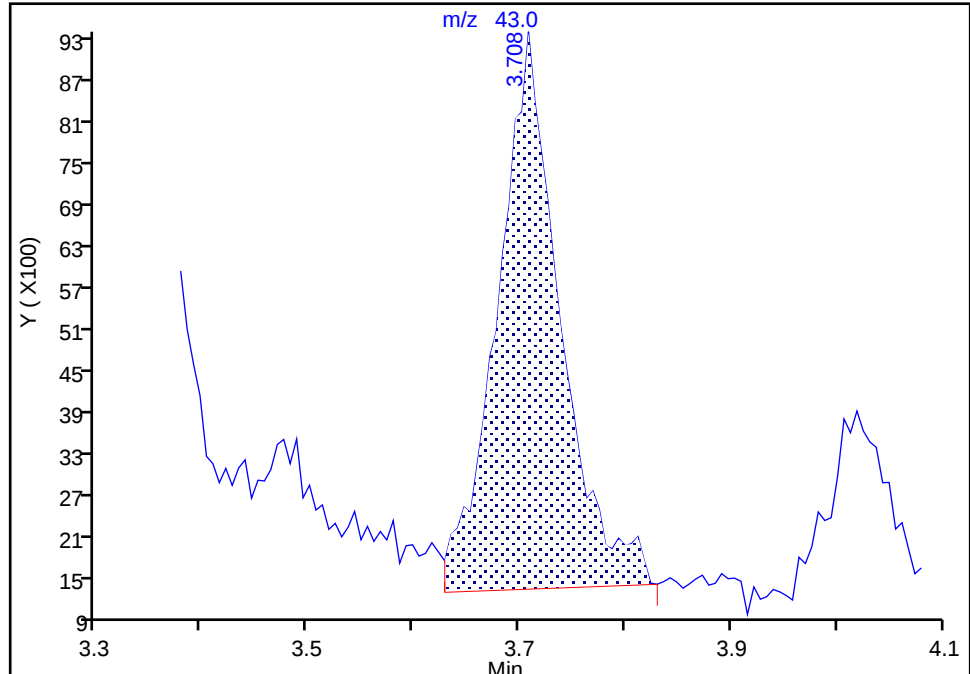
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Injection Date: 23-Oct-2023 03:32:30 Instrument ID: 19930
Lims ID: IC std4
Client ID:
Operator ID: gaw91131 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

23 Methyl acetate, CAS: 79-20-9

Signal: 1

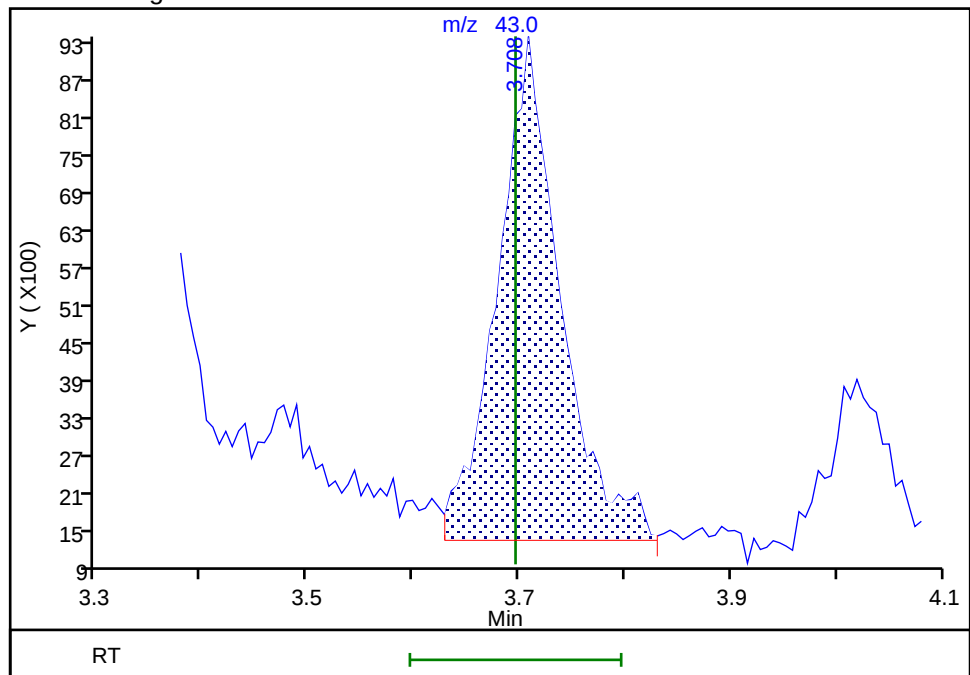
RT: 3.71
Area: 33402
Amount: 1.452039
Amount Units: ug/l

Processing Integration Results



RT: 3.71
Area: 33470
Amount: 2.169293
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:48:53 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

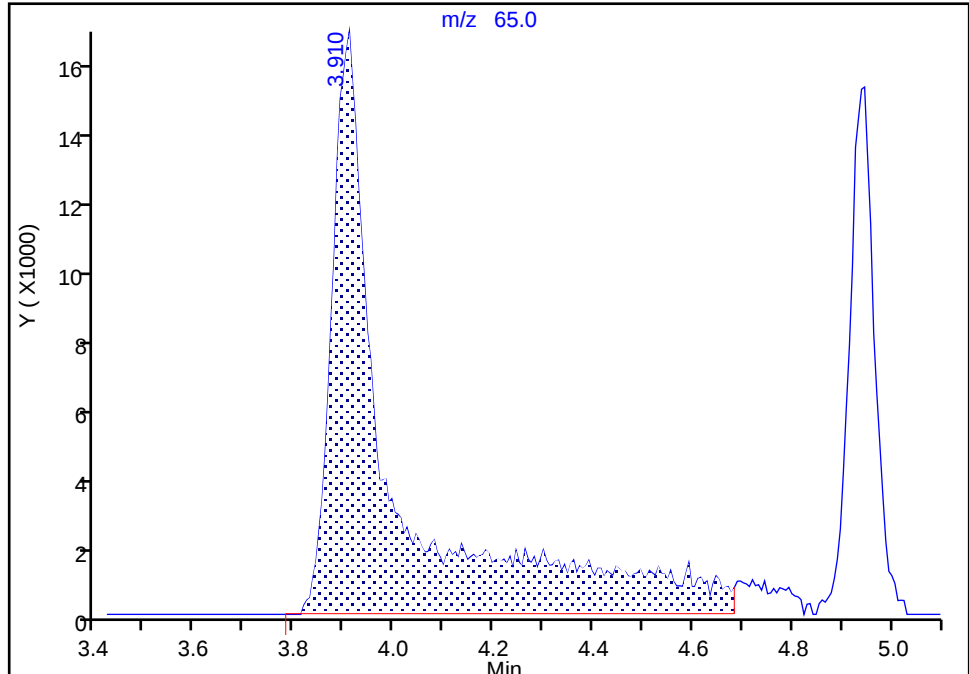
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Lims ID: IC std4
Client ID:
Operator ID: gaw91131 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

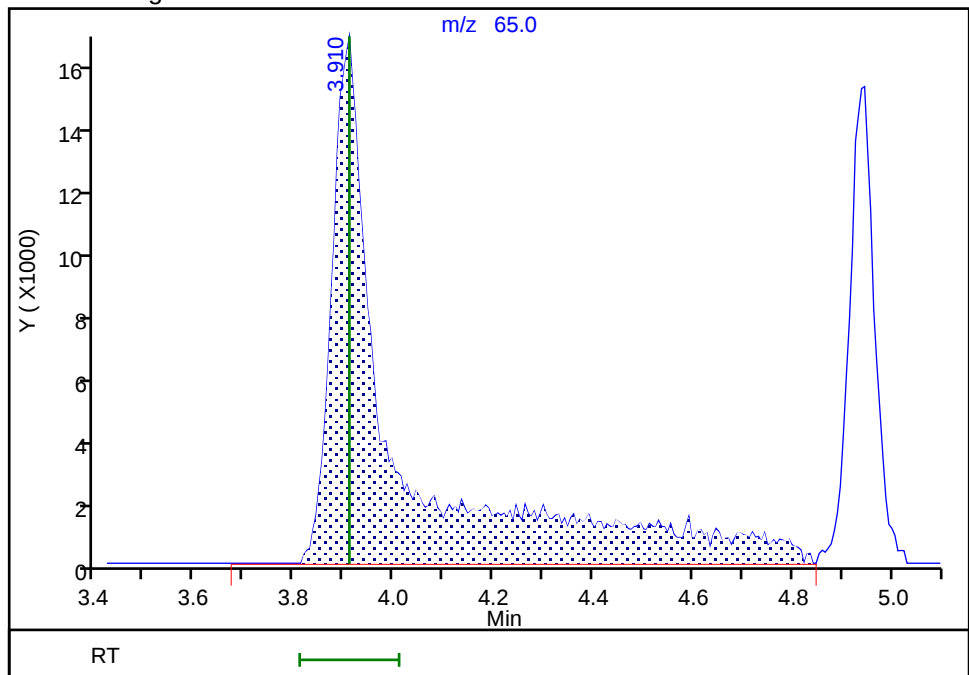
RT: 3.91
Area: 139647
Amount: 50.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.91
Area: 145821
Amount: 50.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:34:34 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X16.D
 Lims ID: IC std5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 23-Oct-2023 03:53:30 ALS Bottle#: 16 Worklist Smp#: 17
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0097328-017
 Misc. Info.: 5.0
 Operator ID: gaw91131 Instrument ID: 19930
 Sublist: chrom-8260 25ml HP31*sub2
 Method: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 31-Oct-2023 09:21:06 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1687

First Level Reviewer: DVW2

Date: 24-Oct-2023 08:37:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.831	1.825	0.006	99	373085	5.00	5.42	
4 Chloromethane	50	2.020	2.007	0.013	99	328294	5.00	5.08	
5 Vinyl chloride	62	2.123	2.117	0.006	98	330454	5.00	5.18	
6 Butadiene	39	2.130	2.123	0.007	91	317864	5.00	5.10	
7 Bromomethane	94	2.434	2.422	0.012	91	267054	5.00	5.11	
8 Chloroethane	64	2.507	2.501	0.006	99	195726	5.00	5.20	
9 Dichlorofluoromethane	67	2.727	2.721	0.006	97	569931	5.00	5.08	
10 Trichlorofluoromethane	101	2.788	2.788	0.000	98	487162	5.00	5.34	
11 Ethyl ether	59	3.007	2.995	0.012	89	176534	5.00	5.23	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.093	3.086	0.007	94	293172	5.00	5.00	
14 Acrolein	56	3.160	3.147	0.013	98	1238851	250.0	248.9	
15 1,1-Dichloroethene	96	3.288	3.282	0.006	98	203712	5.00	5.08	
16 Acetone	43	3.324	3.306	0.018	98	316611	50.0	49.4	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.337	3.330	0.007	91	227108	5.00	5.31	
18 Iodomethane	142	3.471	3.464	0.007	99	451004	5.00	5.16	
19 Ethyl bromide	108	3.495	3.489	0.006	99	205236	5.00	5.22	
20 Carbon disulfide	76	3.574	3.568	0.006	100	574455	5.00	5.07	
23 Methyl acetate	43	3.715	3.696	0.019	96	85798	5.00	5.74	M
24 3-Chloro-1-propene	41	3.727	3.714	0.013	88	327346	5.00	5.11	
25 Methylene Chloride	84	3.897	3.891	0.006	91	228041	5.00	5.10	
* 26 t-Butyl alcohol-d10 (IS)	65	3.922	3.910	0.012	97	141312	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.044	4.013	0.031	99	171971	100.0	71.3	
28 Acrylonitrile	53	4.214	4.202	0.012	97	111887	12.5	15.3	
29 Methyl tert-butyl ether	73	4.282	4.263	0.019	90	639546	5.00	5.23	
30 trans-1,2-Dichloroethene	96	4.288	4.281	0.007	98	236460	5.00	5.12	
31 Hexane	57	4.708	4.702	0.006	94	270878	5.00	4.99	
32 1,1-Dichloroethane	63	4.940	4.940	0.000	96	425558	5.00	5.17	
35 Isopropyl ether	45	5.007	5.001	0.006	93	688181	5.00	5.17	
36 2-Chloro-1,3-butadiene	53	5.062	5.050	0.012	93	370714	5.00	5.17	
37 Tert-butyl ethyl ether	59	5.550	5.549	0.001	97	707619	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
38 2-Butanone (MEK)	43	5.763	5.751	0.012	99	628499	50.0	55.9	
39 cis-1,2-Dichloroethene	96	5.787	5.781	0.006	82	273131	5.00	5.16	
40 2,2-Dichloropropane	77	5.800	5.799	0.001	88	402262	5.00	5.04	
43 Propionitrile	54	5.861	5.836	0.024	99	367286	100.0	121.6	
45 Methacrylonitrile	67	6.062	6.055	0.007	90	631234	50.0	57.0	
46 Chlorobromomethane	128	6.123	6.116	0.007	84	125637	5.00	5.16	
47 Tetrahydrofuran	71	6.141	6.135	0.006	78	99748	25.0	29.5	
S 41 1,2-Dichloroethene, Total	100				0			10.3	
48 Chloroform	83	6.281	6.275	0.006	94	458724	5.00	5.05	
\$ 49 Dibromofluoromethane (Surr)	113	6.495	6.488	0.007	94	455498	10.0	9.96	
50 1,1,1-Trichloroethane	97	6.501	6.500	0.001	98	435800	5.00	5.16	
51 Cyclohexane	56	6.604	6.604	0.000	91	366511	5.00	5.21	
54 Carbon tetrachloride	117	6.720	6.714	0.006	95	392268	5.00	5.17	
53 1,1-Dichloropropene	75	6.720	6.720	0.000	92	337622	5.00	5.19	
55 Isobutyl alcohol	41	6.903	6.878	0.025	93	173275	250.0	209.7	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.952	6.952	0.000	87	91784	10.0	10.2	
57 Benzene	78	6.982	6.982	0.000	97	979757	5.00	5.13	
58 1,2-Dichloroethane	62	7.055	7.055	0.000	98	303178	5.00	5.13	
60 Tert-amyl methyl ether	73	7.183	7.177	0.006	98	671705	5.00	5.21	
* 61 Fluorobenzene (IS)	96	7.391	7.397	-0.006	98	1736785	10.0	10.0	
62 n-Heptane	43	7.415	7.409	0.006	92	286585	5.00	5.16	
63 n-Butanol	56	7.811	7.781	0.030	89	250927	437.5	415.6	
64 Trichloroethene	95	7.884	7.878	0.006	97	280170	5.00	5.17	
65 Methylcyclohexane	83	8.189	8.189	0.000	91	420446	5.00	5.22	
66 1,2-Dichloropropane	63	8.214	8.214	0.000	94	242841	5.00	5.24	
67 Methyl methacrylate	69	8.305	8.305	0.000	88	125086	5.00	5.83	
68 1,4-Dioxane	88	8.323	8.317	0.006	28	31629	250.0	223.2	
69 Dibromomethane	93	8.323	8.323	0.000	91	133499	5.00	5.26	
71 Dichlorobromomethane	83	8.567	8.567	0.000	99	332356	5.00	5.19	
72 2-Nitropropane	41	8.836	8.829	0.007	100	229347	25.0	29.1	
75 1-Bromo-2-chloroethane	63	8.964	8.957	0.007	99	258112	5.00	5.40	
76 cis-1,3-Dichloropropene	75	9.128	9.128	0.000	94	384944	5.00	5.29	
77 4-Methyl-2-pentanone (MIBK)	43	9.311	9.311	0.000	96	1716930	50.0	57.6	
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	94	1786181	10.0	10.1	
79 Toluene	92	9.531	9.530	0.001	98	674702	5.00	5.15	
97 trans-1,3-Dichloropropene	75	9.805	9.805	0.000	94	331563	5.00	5.39	
99 Ethyl methacrylate	69	9.872	9.872	0.000	88	276801	5.00	5.37	
100 1,1,2-Trichloroethane	97	10.012	10.012	0.000	91	190527	5.00	5.22	
S 98 1,3-Dichloropropene, Total	100				0			10.7	
101 Tetrachloroethene	166	10.104	10.103	0.001	98	354102	5.00	5.21	
102 1,3-Dichloropropane	76	10.183	10.183	0.000	91	309146	5.00	5.23	
103 2-Hexanone	43	10.238	10.238	0.000	96	1207855	50.0	56.5	
105 Chlorodibromomethane	129	10.402	10.402	0.000	89	259017	5.00	5.32	
106 Ethylene Dibromide	107	10.512	10.512	0.000	99	189074	5.00	5.38	
* 107 Chlorobenzene-d5 (IS)	117	10.957	10.957	0.000	85	1388218	10.0	10.0	
108 1-Chlorohexane	91	10.969	10.969	0.000	96	365351	5.00	4.97	
109 Chlorobenzene	112	10.981	10.981	0.000	96	780827	5.00	5.19	
111 1,1,1,2-Tetrachloroethane	131	11.067	11.067	0.000	94	297010	5.00	5.28	
112 Ethylbenzene	91	11.073	11.073	0.000	98	1354278	5.00	5.25	
113 m-Xylene & p-Xylene	106	11.195	11.189	0.006	93	1090298	10.0	10.5	
S 110 Xylenes, Total	106				0			15.8	
114 o-Xylene	106	11.524	11.524	0.000	96	541268	5.00	5.27	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Styrene	104	11.542	11.542	0.000	95	865519	5.00	5.36	
116 Bromoform	173	11.695	11.695	0.000	98	172926	5.00	5.26	
117 Isopropylbenzene	105	11.829	11.829	0.000	96	1343620	5.00	5.30	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.975	11.975	0.000	96	673492	10.0	10.0	
121 1,1,2,2-Tetrachloroethane	83	12.079	12.079	0.000	93	248232	5.00	5.20	
122 Bromobenzene	156	12.091	12.091	0.000	94	360018	5.00	5.13	
123 trans-1,4-Dichloro-2-butene	53	12.103	12.103	0.000	96	704089	50.0	57.4	
124 1,2,3-Trichloropropane	110	12.121	12.121	0.000	81	73159	5.00	5.25	
125 N-Propylbenzene	91	12.158	12.164	-0.006	99	1618012	5.00	5.20	
126 2-Chlorotoluene	126	12.237	12.237	0.000	97	345749	5.00	5.17	
127 1,3,5-Trimethylbenzene	105	12.298	12.298	0.000	94	1225117	5.00	5.27	
128 4-Chlorotoluene	126	12.329	12.329	0.000	97	351142	5.00	5.23	
129 tert-Butylbenzene	134	12.542	12.542	0.000	93	289513	5.00	5.16	
130 Pentachloroethane	167	12.573	12.572	0.001	90	244959	5.00	5.42	
131 1,2,4-Trimethylbenzene	105	12.585	12.585	0.000	97	1236077	5.00	5.27	
132 sec-Butylbenzene	105	12.707	12.707	0.000	94	1551240	5.00	5.22	
133 1,3-Dichlorobenzene	146	12.804	12.804	0.000	99	699915	5.00	5.24	
134 4-Isopropyltoluene	119	12.816	12.816	0.000	97	1383523	5.00	5.29	
* 135 1,4-Dichlorobenzene-d4	152	12.859	12.859	0.000	94	859484	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.877	12.877	0.000	95	709174	5.00	5.15	
137 1,2,3-Trimethylbenzene	120	12.890	12.889	0.001	98	555334	5.00	5.21	
138 Benzyl chloride	126	12.957	12.957	0.000	98	113961	5.00	5.57	
139 n-Butylbenzene	92	13.109	13.109	0.000	97	636393	5.00	5.32	
140 1,2-Dichlorobenzene	146	13.140	13.139	0.001	99	660702	5.00	5.26	
142 1,2-Dibromo-3-Chloropropane	155	13.682	13.682	0.000	88	46481	5.00	5.61	
143 1,3,5-Trichlorobenzene	180	13.810	13.810	0.000	98	518072	5.00	5.30	
144 1,2,4-Trichlorobenzene	180	14.231	14.231	0.000	94	427328	5.00	5.38	
145 Hexachlorobutadiene	225	14.316	14.316	0.000	96	192443	5.00	5.04	
146 Naphthalene	128	14.414	14.407	0.007	97	813779	5.00	5.49	
147 1,2,3-Trichlorobenzene	180	14.554	14.554	0.000	95	353077	5.00	5.42	
165 Isopropyl alcohol	45		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00100	Amount Added: 5.00	Units: uL	
MSV_LL_#2_826_00109	Amount Added: 5.00	Units: uL	
MSV_LL_GAS826_00175	Amount Added: 5.00	Units: uL	
MSV_LLcentISS_00009	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 31-Oct-2023 09:21:07

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X16.D

Injection Date: 23-Oct-2023 03:53:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: IC std5

Worklist Smp#: 17

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

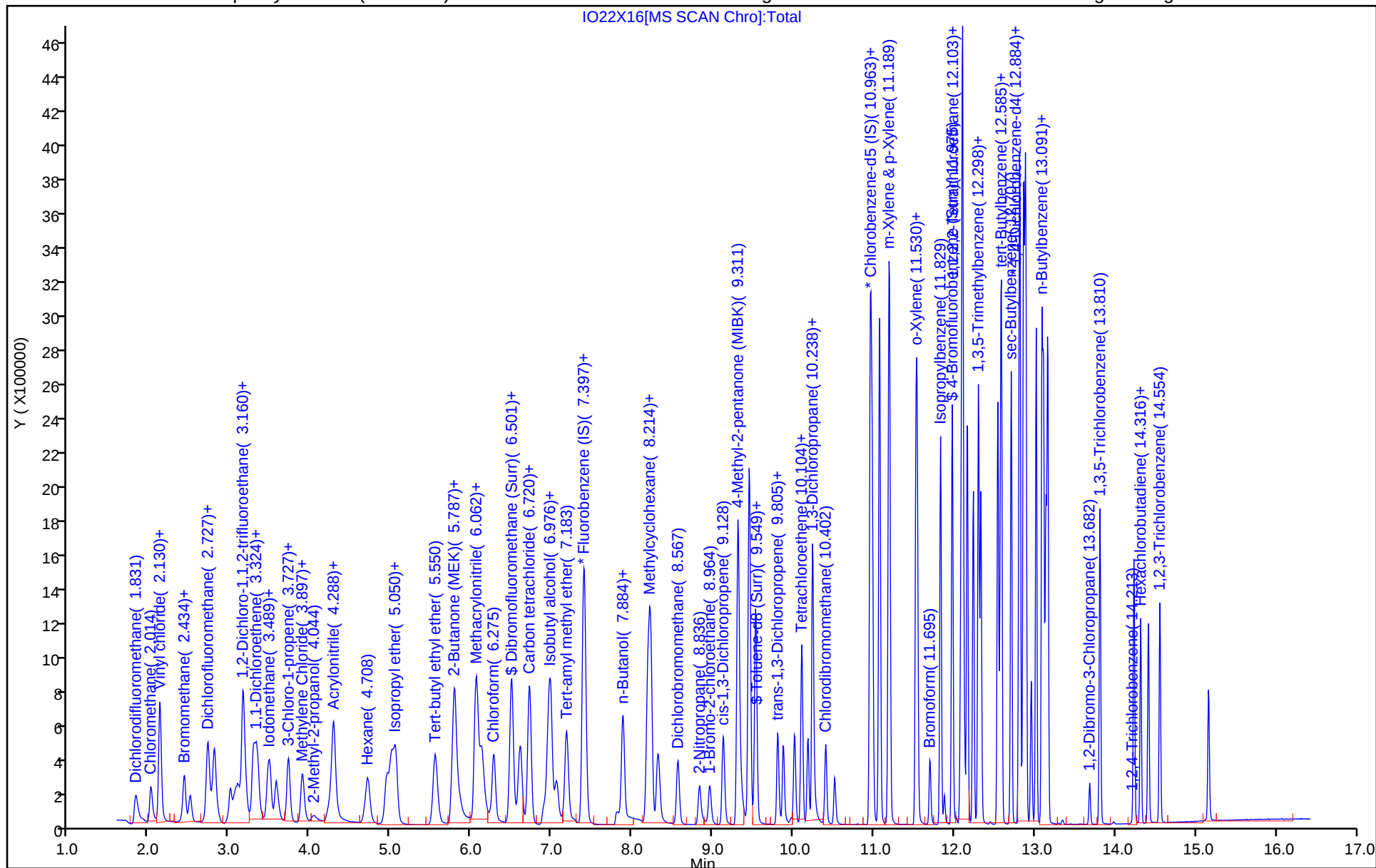
ALS Bottle#: 16

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

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



Eurofins Lancaster Laboratories Environment Testing, LLC

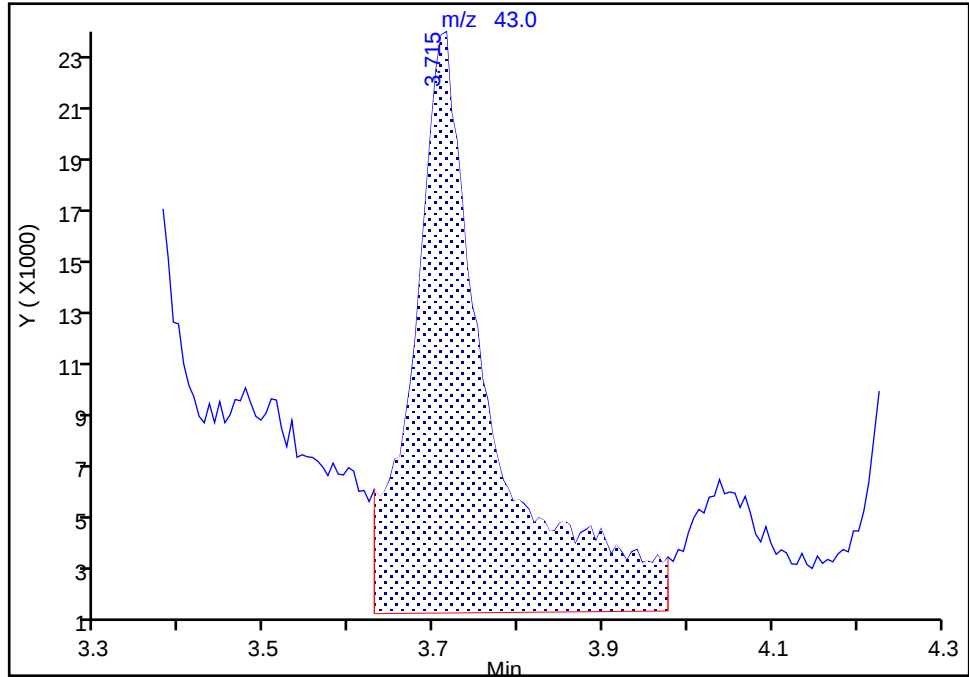
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Injection Date: 23-Oct-2023 03:53:30 Instrument ID: 19930
Lims ID: IC std5
Client ID:
Operator ID: gaw91131 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

23 Methyl acetate, CAS: 79-20-9

Signal: 1

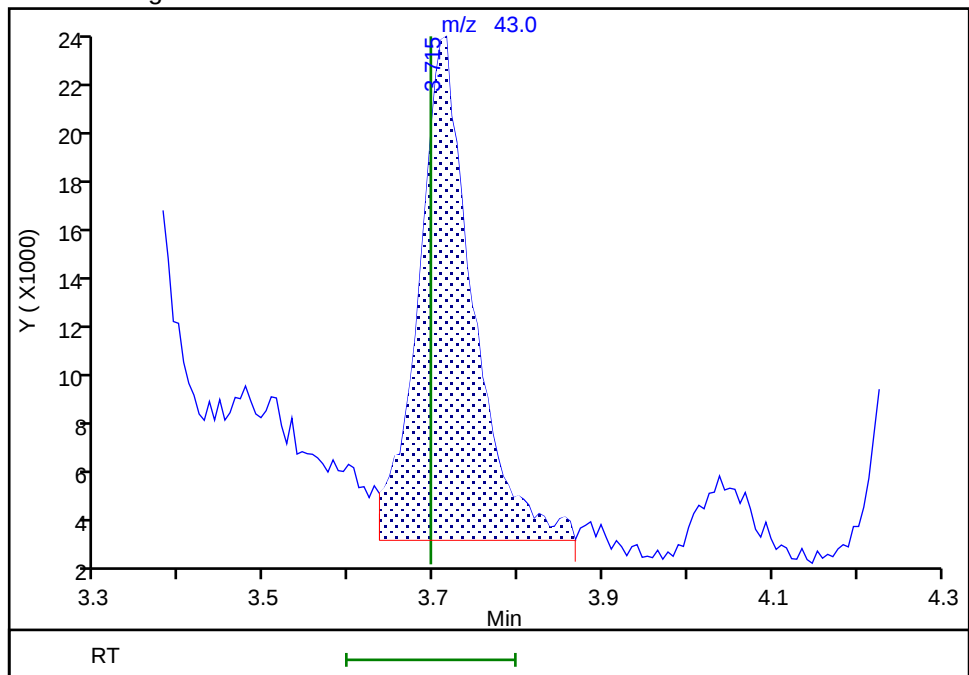
RT: 3.71
Area: 139656
Amount: 6.484583
Amount Units: ug/l

Processing Integration Results



RT: 3.71
Area: 85798
Amount: 5.738266
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:49:42 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

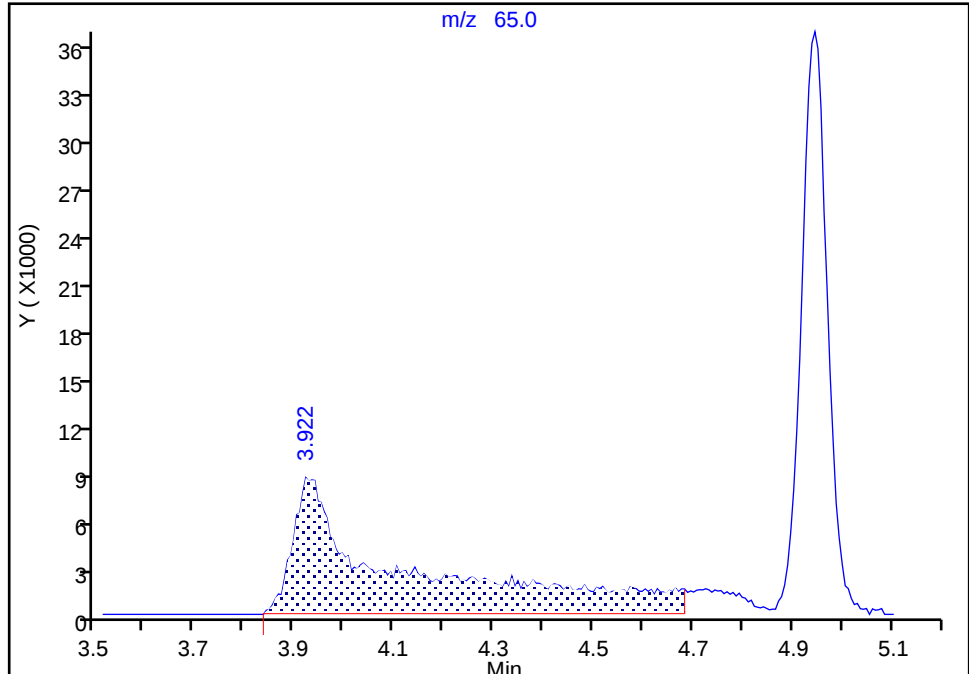
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Injection Date: 23-Oct-2023 03:53:30 Instrument ID: 19930
Lims ID: IC std5
Client ID:
Operator ID: gaw91131 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

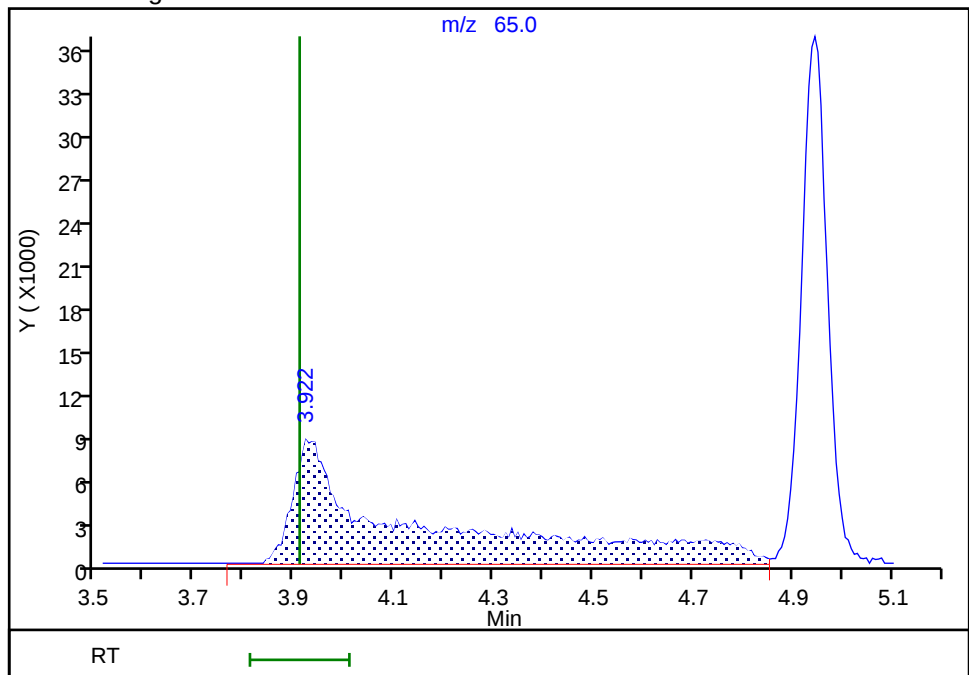
RT: 3.92
Area: 129479
Amount: 50.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.92
Area: 141312
Amount: 50.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:36:29 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X17.D
 Lims ID: ICIS std6 LG
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 23-Oct-2023 04:14:30 ALS Bottle#: 17 Worklist Smp#: 18
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0097328-018
 Misc. Info.: 10
 Operator ID: gaw91131 Instrument ID: 19930
 Sublist: chrom-8260 25ml HP31*sub2
 Method: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 31-Oct-2023 09:21:12 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1687

First Level Reviewer: DVW2

Date: 24-Oct-2023 09:40:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.825	1.825	0.000	99	701114	10.0	9.15	
4 Chloromethane	50	2.007	2.007	0.000	99	640966	10.0	8.92	
5 Vinyl chloride	62	2.117	2.117	0.000	98	648906	10.0	9.14	
6 Butadiene	39	2.123	2.123	0.000	91	613717	10.0	8.85	
7 Bromomethane	94	2.422	2.422	0.000	92	522328	10.0	8.99	
8 Chloroethane	64	2.501	2.501	0.000	100	386183	10.0	9.22	
9 Dichlorofluoromethane	67	2.721	2.721	0.000	97	1114000	10.0	8.93	
10 Trichlorofluoromethane	101	2.788	2.788	0.000	98	926931	10.0	9.12	
11 Ethyl ether	59	2.995	2.995	0.000	89	350789	10.0	9.35	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.086	3.086	0.000	89	579689	10.0	8.88	
14 Acrolein	56	3.147	3.147	0.000	98	2830663	500.0	448.1	
15 1,1-Dichloroethene	96	3.282	3.282	0.000	98	406707	10.0	9.12	
16 Acetone	43	3.306	3.306	0.000	99	782101	100.0	96.1	M
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.330	3.330	0.000	90	443558	10.0	9.32	
18 Iodomethane	142	3.464	3.464	0.000	99	907301	10.0	9.33	
19 Ethyl bromide	108	3.489	3.489	0.000	99	411016	10.0	9.39	
20 Carbon disulfide	76	3.568	3.568	0.000	100	1145993	10.0	9.10	
23 Methyl acetate	43	3.696	3.696	0.000	97	179317	10.0	9.45	M
24 3-Chloro-1-propene	41	3.714	3.714	0.000	88	660634	10.0	9.26	
25 Methylene Chloride	84	3.891	3.891	0.000	90	457274	10.0	9.20	
* 26 t-Butyl alcohol-d10 (IS)	65	3.903	3.903	0.000	96	179329	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.013	4.013	0.000	99	644302	200.0	210.5	
28 Acrylonitrile	53	4.202	4.202	0.000	99	221998	25.0	23.8	
29 Methyl tert-butyl ether	73	4.263	4.263	0.000	95	1274554	10.0	9.36	
30 trans-1,2-Dichloroethene	96	4.281	4.281	0.000	98	475963	10.0	9.26	
31 Hexane	57	4.702	4.702	0.000	94	541203	10.0	8.95	
32 1,1-Dichloroethane	63	4.940	4.940	0.000	96	847769	10.0	9.26	
35 Isopropyl ether	45	5.001	5.001	0.000	91	1371289	10.0	9.26	
36 2-Chloro-1,3-butadiene	53	5.050	5.050	0.000	93	724563	10.0	9.08	
37 Tert-butyl ethyl ether	59	5.549	5.549	0.000	97	1420775	10.0	9.33	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2-Butanone (MEK)	43	5.751	5.751	0.000	100	1278108	100.0	89.5	
39 cis-1,2-Dichloroethene	96	5.781	5.781	0.000	82	549248	10.0	9.33	
40 2,2-Dichloropropane	77	5.799	5.799	0.000	88	809767	10.0	9.12	
43 Propionitrile	54	5.836	5.836	0.000	98	699754	200.0	182.6	
45 Methacrylonitrile	67	6.055	6.055	0.000	90	1268573	100.0	90.3	
46 Chlorobromomethane	128	6.116	6.116	0.000	85	256214	10.0	9.46	
47 Tetrahydrofuran	71	6.135	6.135	0.000	77	198090	50.0	46.2	
48 Chloroform	83	6.275	6.275	0.000	94	923692	10.0	9.14	
\$ 49 Dibromofluoromethane (Surr)	113	6.488	6.488	0.000	94	508826	10.0	10.0	
50 1,1,1-Trichloroethane	97	6.500	6.500	0.000	98	871651	10.0	9.27	
51 Cyclohexane	56	6.604	6.604	0.000	90	714619	10.0	9.12	
54 Carbon tetrachloride	117	6.714	6.714	0.000	96	787383	10.0	9.32	
53 1,1-Dichloropropene	75	6.720	6.720	0.000	96	675643	10.0	9.33	
55 Isobutyl alcohol	41	6.878	6.878	0.000	93	509533	500.0	486.0	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.952	6.952	0.000	90	100023	10.0	10.0	
57 Benzene	78	6.982	6.982	0.000	97	1973755	10.0	9.29	
58 1,2-Dichloroethane	62	7.055	7.055	0.000	98	602422	10.0	9.16	
60 Tert-amyl methyl ether	73	7.177	7.177	0.000	98	1356547	10.0	9.46	
* 61 Fluorobenzene (IS)	96	7.391	7.391	0.000	99	1932713	10.0	10.0	
62 n-Heptane	43	7.409	7.409	0.000	85	562849	10.0	9.11	
63 n-Butanol	56	7.781	7.781	0.000	88	764195	875.0	997.3	
64 Trichloroethene	95	7.878	7.878	0.000	97	562078	10.0	9.32	
65 Methylcyclohexane	83	8.189	8.189	0.000	90	832589	10.0	9.28	
66 1,2-Dichloropropane	63	8.214	8.214	0.000	86	485372	10.0	9.40	
67 Methyl methacrylate	69	8.305	8.305	0.000	89	249133	10.0	9.14	
68 1,4-Dioxane	88	8.317	8.317	0.000	35	92194	500.0	512.6	
69 Dibromomethane	93	8.323	8.323	0.000	91	267507	10.0	9.48	
71 Dichlorobromomethane	83	8.567	8.567	0.000	99	675164	10.0	9.47	
72 2-Nitropropane	41	8.829	8.829	0.000	99	459345	50.0	45.9	
75 1-Bromo-2-chloroethane	63	8.957	8.957	0.000	98	519734	10.0	9.78	
76 cis-1,3-Dichloropropene	75	9.128	9.128	0.000	95	792708	10.0	9.79	
77 4-Methyl-2-pentanone (MIBK)	43	9.311	9.311	0.000	96	3369484	100.0	89.1	
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	93	1978865	10.0	9.94	
79 Toluene	92	9.530	9.530	0.000	98	1364263	10.0	9.26	
97 trans-1,3-Dichloropropene	75	9.805	9.805	0.000	94	680408	10.0	9.85	
99 Ethyl methacrylate	69	9.872	9.872	0.000	88	564728	10.0	9.75	
100 1,1,2-Trichloroethane	97	10.012	10.012	0.000	92	374891	10.0	9.14	
101 Tetrachloroethene	166	10.103	10.103	0.000	99	703797	10.0	9.22	
102 1,3-Dichloropropane	76	10.183	10.183	0.000	92	619060	10.0	9.33	
103 2-Hexanone	43	10.238	10.238	0.000	97	2372032	100.0	87.5	
105 Chlorodibromomethane	129	10.402	10.402	0.000	89	535280	10.0	9.79	
106 Ethylene Dibromide	107	10.512	10.512	0.000	99	380825	10.0	9.65	
* 107 Chlorobenzene-d5 (IS)	117	10.957	10.957	0.000	91	1559233	10.0	10.0	
108 1-Chlorohexane	91	10.969	10.969	0.000	97	728954	10.0	8.84	
109 Chlorobenzene	112	10.981	10.981	0.000	96	1572560	10.0	9.31	
111 1,1,1,2-Tetrachloroethane	131	11.067	11.067	0.000	95	595448	10.0	9.42	
112 Ethylbenzene	91	11.073	11.073	0.000	98	2714949	10.0	9.38	
113 m-Xylene & p-Xylene	106	11.189	11.189	0.000	93	2192403	20.0	18.9	a
114 o-Xylene	106	11.524	11.524	0.000	96	1090424	10.0	9.45	
115 Styrene	104	11.542	11.542	0.000	95	1741318	10.0	9.61	
116 Bromoform	173	11.695	11.695	0.000	98	355252	10.0	9.63	
117 Isopropylbenzene	105	11.829	11.829	0.000	96	2694979	10.0	9.46	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 120 4-Bromofluorobenzene (Surr)	95	11.975	11.975	0.000	96	752375	10.0	9.99	
121 1,1,2,2-Tetrachloroethane	83	12.079	12.079	0.000	94	499574	10.0	9.49	
122 Bromobenzene	156	12.091	12.091	0.000	93	734717	10.0	9.49	
123 trans-1,4-Dichloro-2-butene	53	12.103	12.103	0.000	94	1416510	100.0	90.9	
124 1,2,3-Trichloropropane	110	12.121	12.121	0.000	82	147063	10.0	9.58	
125 N-Propylbenzene	91	12.164	12.164	0.000	99	3257958	10.0	9.49	
126 2-Chlorotoluene	126	12.237	12.237	0.000	97	694359	10.0	9.42	
127 1,3,5-Trimethylbenzene	105	12.298	12.298	0.000	94	2454299	10.0	9.58	
128 4-Chlorotoluene	126	12.329	12.329	0.000	97	703487	10.0	9.51	
129 tert-Butylbenzene	134	12.542	12.542	0.000	93	591701	10.0	9.56	
130 Pentachloroethane	167	12.572	12.572	0.000	90	501299	10.0	10.1	
131 1,2,4-Trimethylbenzene	105	12.585	12.585	0.000	97	2500426	10.0	9.67	
132 sec-Butylbenzene	105	12.707	12.707	0.000	94	3125905	10.0	9.55	
133 1,3-Dichlorobenzene	146	12.804	12.804	0.000	99	1419412	10.0	9.64	
134 4-Isopropyltoluene	119	12.816	12.816	0.000	97	2799044	10.0	9.70	
* 135 1,4-Dichlorobenzene-d4	152	12.859	12.859	0.000	94	947359	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.877	12.877	0.000	95	1426600	10.0	9.39	
137 1,2,3-Trimethylbenzene	120	12.889	12.889	0.000	98	1110846	10.0	9.45	
138 Benzyl chloride	126	12.957	12.957	0.000	98	232839	10.0	10.3	
139 n-Butylbenzene	92	13.109	13.109	0.000	97	1300834	10.0	9.87	
140 1,2-Dichlorobenzene	146	13.139	13.139	0.000	99	1323158	10.0	9.56	
142 1,2-Dibromo-3-Chloropropane	155	13.682	13.682	0.000	89	91610	10.0	10.0	
143 1,3,5-Trichlorobenzene	180	13.810	13.810	0.000	98	1066006	10.0	9.89	
144 1,2,4-Trichlorobenzene	180	14.231	14.231	0.000	94	893221	10.0	10.2	
145 Hexachlorobutadiene	225	14.316	14.316	0.000	96	399611	10.0	9.50	
146 Naphthalene	128	14.407	14.407	0.000	97	1595362	10.0	9.76	
147 1,2,3-Trichlorobenzene	180	14.554	14.554	0.000	95	700617	10.0	9.75	
165 Isopropyl alcohol	45		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00100	Amount Added: 10.00	Units: uL	
MSV_LL_#2_826_00109	Amount Added: 10.00	Units: uL	
MSV_LL_GAS826_00175	Amount Added: 10.00	Units: uL	
MSV_LLcentISS_00009	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 31-Oct-2023 09:21:13

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X17.D

Injection Date: 23-Oct-2023 04:14:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: ICIS std6 LG

Worklist Smp#: 18

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

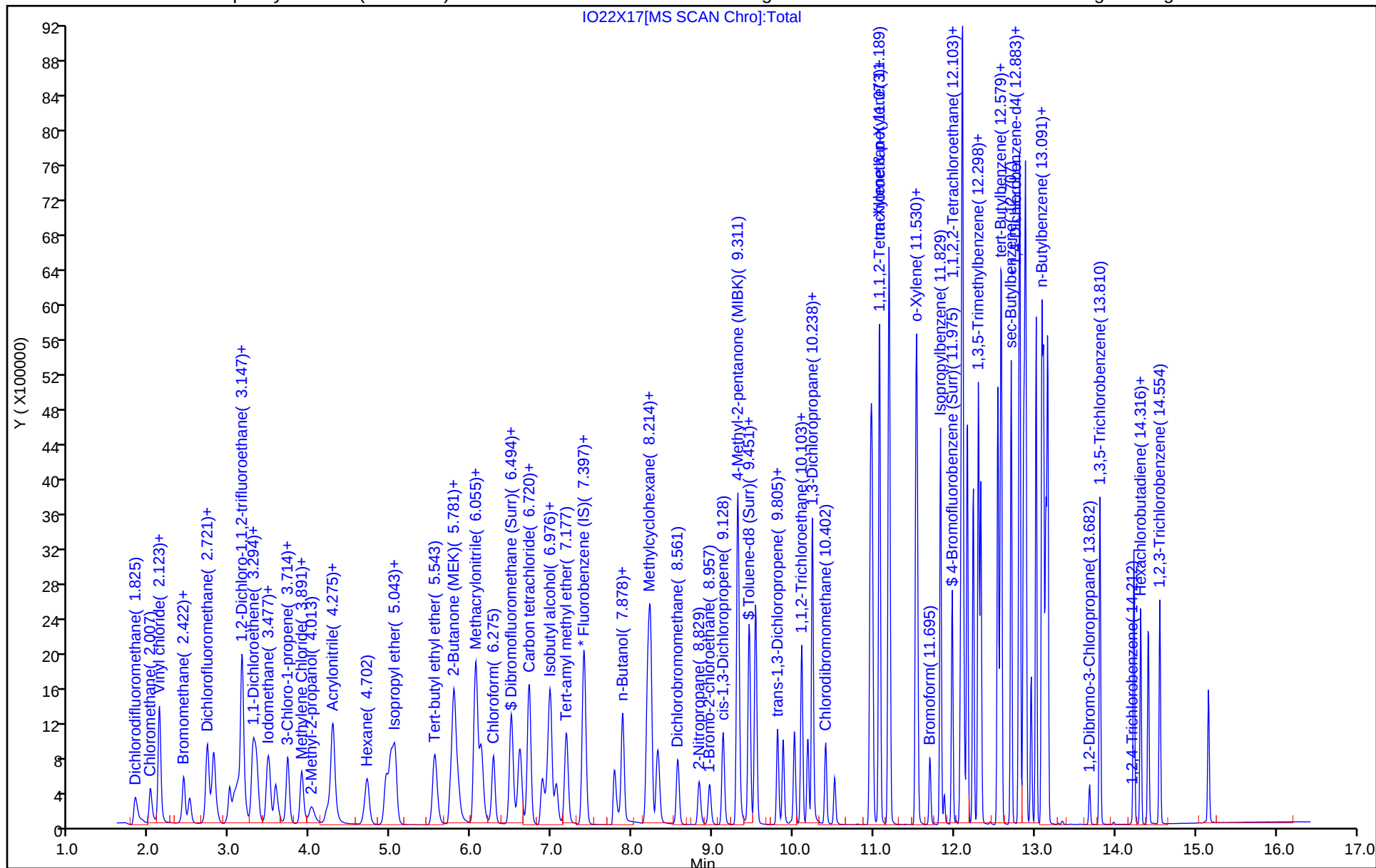
ALS Bottle#: 17

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

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



Eurofins Lancaster Laboratories Environment Testing, LLC

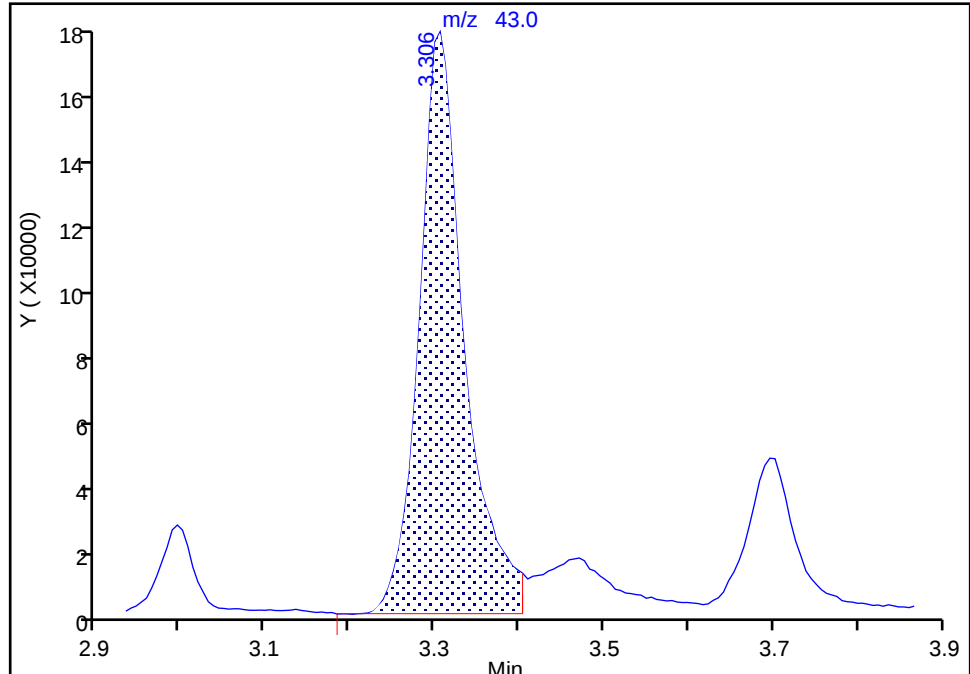
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Injection Date: 23-Oct-2023 04:14:30 Instrument ID: 19930
Lims ID: ICIS std6 LG
Client ID:
Operator ID: gaw91131 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

16 Acetone, CAS: 67-64-1

Signal: 1

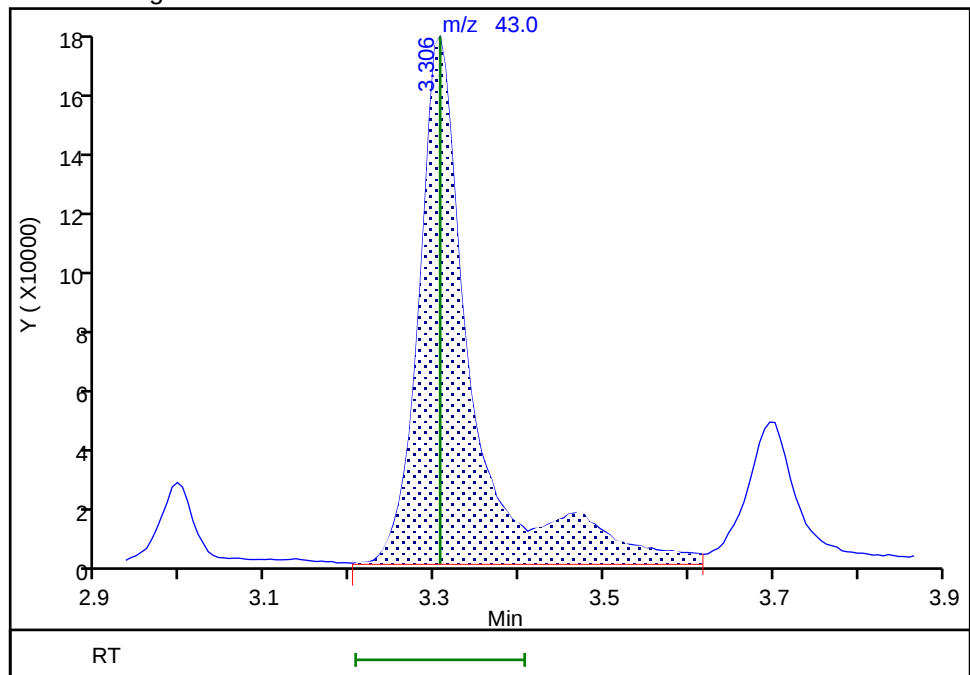
RT: 3.31
Area: 664337
Amount: 80.943411
Amount Units: ug/l

Processing Integration Results



RT: 3.31
Area: 782101
Amount: 96.126423
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:22:02 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

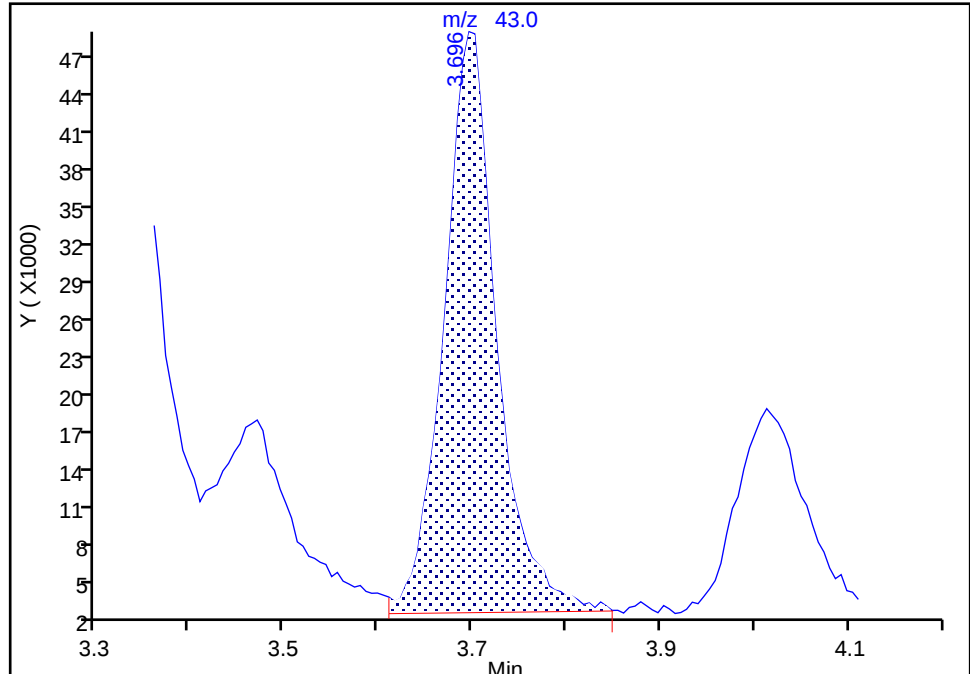
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Injection Date: 23-Oct-2023 04:14:30 Instrument ID: 19930
Lims ID: ICIS std6 LG
Client ID:
Operator ID: gaw91131 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

23 Methyl acetate, CAS: 79-20-9

Signal: 1

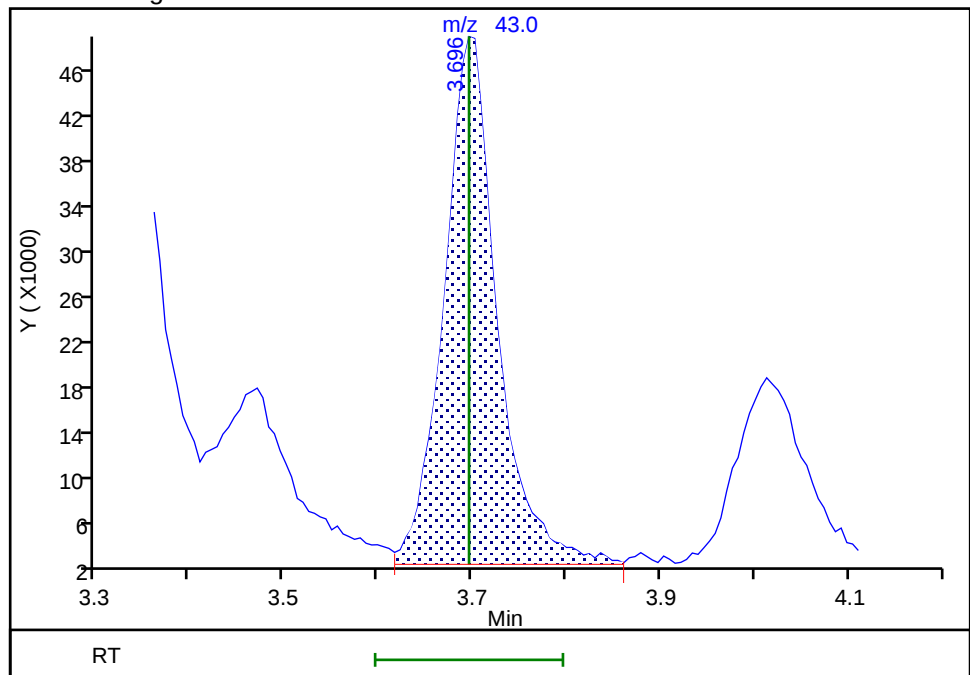
RT: 3.70
Area: 178591
Amount: 7.134646
Amount Units: ug/l

Processing Integration Results



RT: 3.70
Area: 179317
Amount: 9.450471
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:20:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

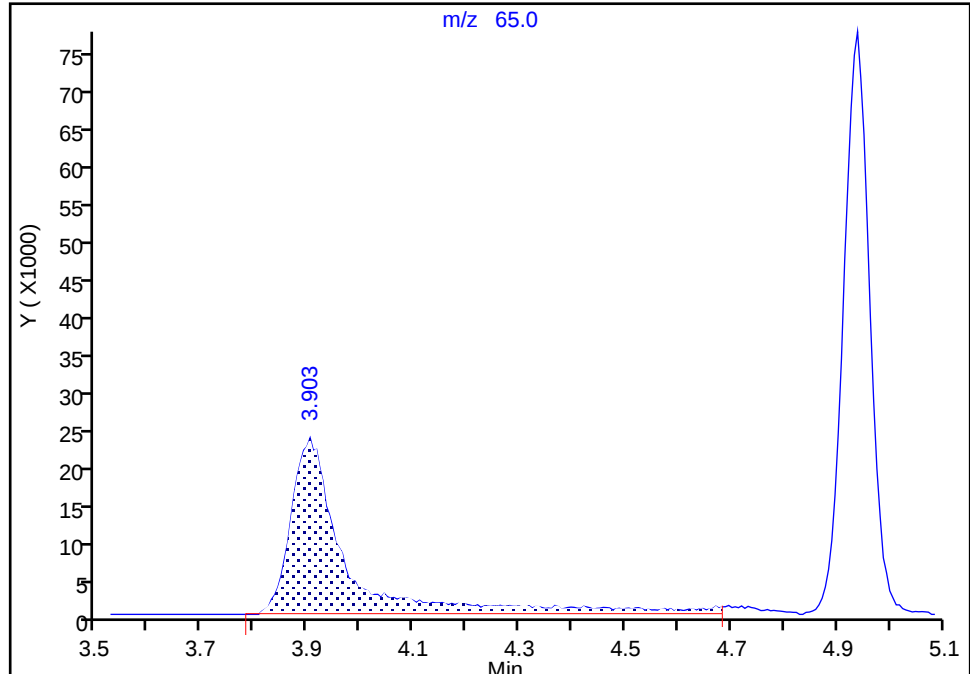
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Injection Date: 23-Oct-2023 04:14:30 Instrument ID: 19930
Lims ID: ICIS std6 LG
Client ID:
Operator ID: gaw91131 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

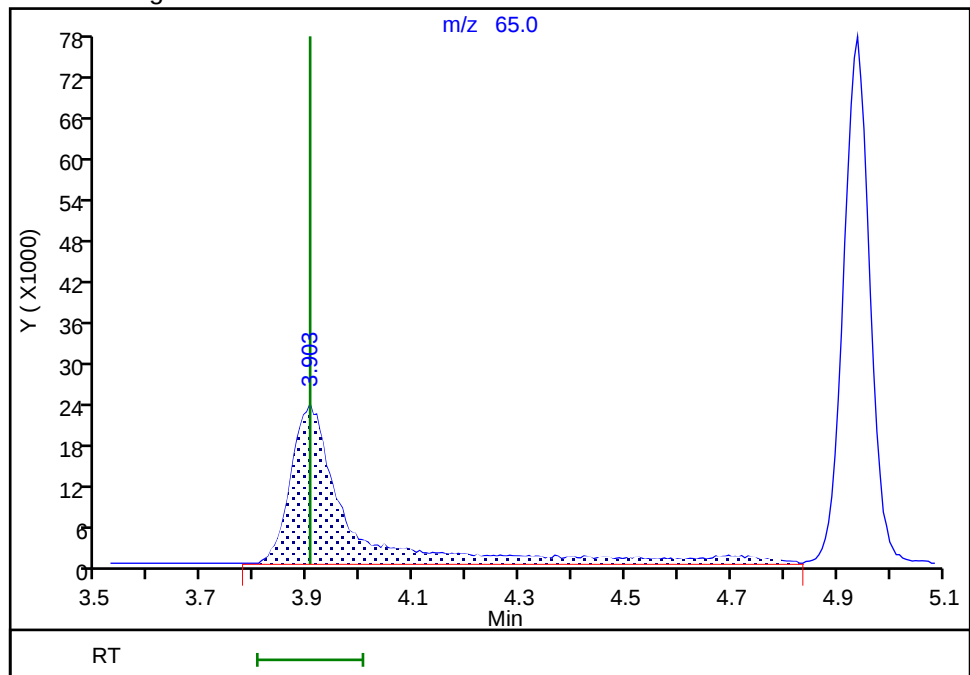
RT: 3.90
Area: 173614
Amount: 50.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.90
Area: 179329
Amount: 50.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:18:11 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

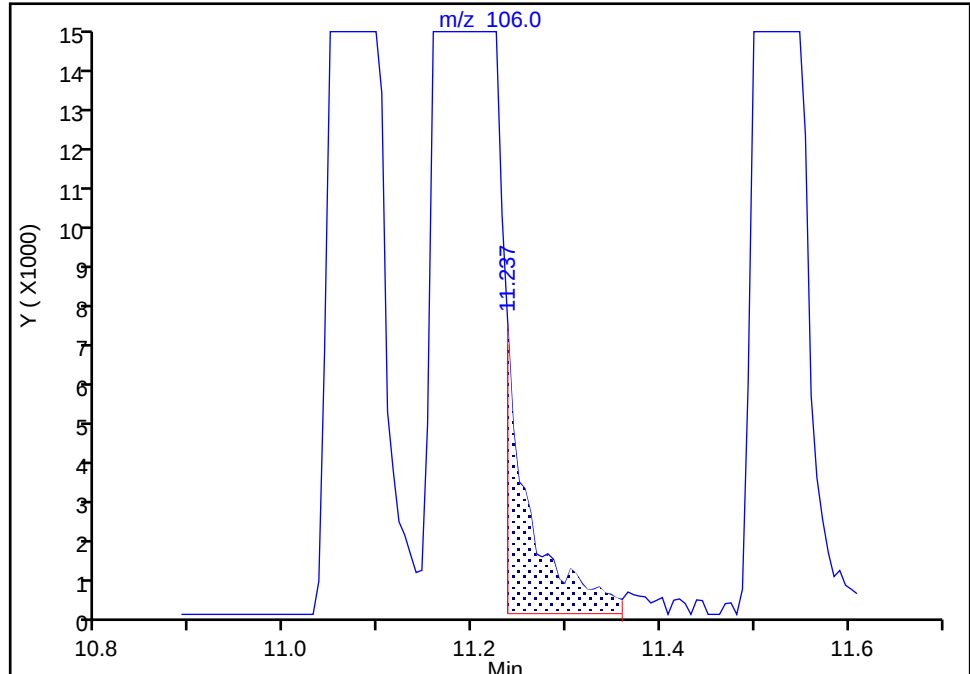
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Injection Date: 23-Oct-2023 04:14:30 Instrument ID: 19930
Lims ID: ICIS std6 LG
Client ID:
Operator ID: gaw91131 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

113 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

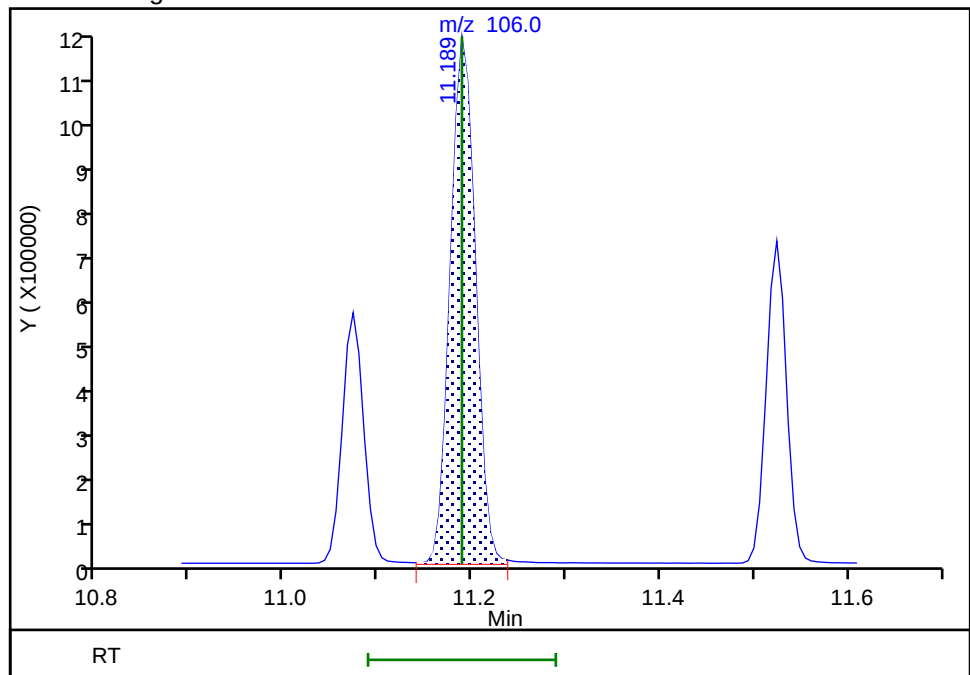
RT: 11.24
Area: 12472
Amount: 0.149018
Amount Units: ug/l

Processing Integration Results



RT: 11.19
Area: 2192403
Amount: 18.865348
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:22:42 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Lims ID: IC std7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 23-Oct-2023 04:35:30 ALS Bottle#: 18 Worklist Smp#: 19
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0097328-019
 Misc. Info.: 25
 Operator ID: gaw91131 Instrument ID: 19930
 Sublist: chrom-8260 25ml HP31*sub2
 Method: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 31-Oct-2023 09:21:19 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1687

First Level Reviewer: DVW2

Date: 24-Oct-2023 08:39:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.819	1.825	-0.006	99	1681445	25.0	22.6	
4 Chloromethane	50	2.008	2.007	0.000	99	1582843	25.0	22.6	
5 Vinyl chloride	62	2.111	2.117	-0.006	98	1611485	25.0	23.3	
6 Butadiene	39	2.117	2.123	-0.006	91	1505325	25.0	22.3	
7 Bromomethane	94	2.422	2.422	0.000	91	1325500	25.0	23.4	
8 Chloroethane	64	2.495	2.501	-0.006	100	967579	25.0	23.8	
9 Dichlorofluoromethane	67	2.715	2.721	-0.006	97	2761418	25.0	22.8	
10 Trichlorofluoromethane	101	2.782	2.788	-0.006	98	2328271	25.0	23.6	
11 Ethyl ether	59	2.989	2.995	-0.006	90	894042	25.0	24.5	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.080	3.086	-0.006	93	1446255	25.0	22.8	
14 Acrolein	56	3.141	3.147	-0.006	99	7724252	1250.0	1197.2	
15 1,1-Dichloroethene	96	3.282	3.282	0.000	98	1088580	25.0	25.1	
16 Acetone	43	3.300	3.306	-0.006	99	1974705	250.0	237.6	M
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.324	3.330	-0.006	91	1180284	25.0	25.5	
18 Iodomethane	142	3.458	3.464	-0.006	99	2415505	25.0	25.5	
19 Ethyl bromide	108	3.483	3.489	-0.006	99	1074058	25.0	25.2	
20 Carbon disulfide	76	3.562	3.568	-0.006	100	3073974	25.0	25.1	
23 Methyl acetate	43	3.690	3.696	-0.006	96	494740	25.0	25.5	M
24 3-Chloro-1-propene	41	3.714	3.714	0.000	88	1735021	25.0	25.0	
25 Methylene Chloride	84	3.885	3.891	-0.006	90	1216465	25.0	25.2	
* 26 t-Butyl alcohol-d10 (IS)	65	3.897	3.903	-0.006	96	183175	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.007	4.013	-0.006	99	1516439	500.0	485.0	
28 Acrylonitrile	53	4.190	4.202	-0.012	97	596477	62.5	62.7	
29 Methyl tert-butyl ether	73	4.269	4.263	0.006	95	3412871	25.0	25.8	
30 trans-1,2-Dichloroethene	96	4.269	4.281	-0.012	98	1260076	25.0	25.2	
31 Hexane	57	4.696	4.702	-0.006	93	1478540	25.0	25.1	
32 1,1-Dichloroethane	63	4.934	4.940	-0.006	96	2188293	25.0	24.6	
35 Isopropyl ether	45	5.001	5.001	0.000	91	3603847	25.0	25.0	
36 2-Chloro-1,3-butadiene	53	5.044	5.050	-0.006	92	1941149	25.0	25.0	
37 Tert-butyl ethyl ether	59	5.543	5.549	-0.006	97	3713795	25.0	25.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2-Butanone (MEK)	43	5.751	5.751	0.000	99	3417886	250.0	234.4	
39 cis-1,2-Dichloroethene	96	5.781	5.781	0.000	82	1471470	25.0	25.7	
40 2,2-Dichloropropane	77	5.793	5.799	-0.006	91	2139769	25.0	24.8	
43 Propionitrile	54	5.836	5.836	0.000	99	1953208	500.0	499.0	
45 Methacrylonitrile	67	6.056	6.055	0.001	90	3395002	250.0	236.5	
46 Chlorobromomethane	128	6.116	6.116	0.000	86	685587	25.0	26.0	
47 Tetrahydrofuran	71	6.135	6.135	0.000	78	531909	125.0	121.4	
S 41 1,2-Dichloroethene, Total	100				0			50.9	
48 Chloroform	83	6.269	6.275	-0.006	94	2437487	25.0	24.8	
\$ 49 Dibromofluoromethane (Surr)	113	6.488	6.488	0.000	93	494587	10.0	9.99	
50 1,1,1-Trichloroethane	97	6.494	6.500	-0.006	98	2289665	25.0	25.0	
51 Cyclohexane	56	6.598	6.604	-0.006	90	1905835	25.0	25.0	
54 Carbon tetrachloride	117	6.714	6.714	0.000	96	2080123	25.0	25.3	
53 1,1-Dichloropropene	75	6.714	6.720	-0.006	95	1778895	25.0	25.2	
55 Isobutyl alcohol	41	6.885	6.878	0.007	93	1283807	1250.0	1198.8	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.946	6.952	-0.006	82	94412	10.0	9.71	
57 Benzene	78	6.976	6.982	-0.006	96	5240763	25.0	25.4	
58 1,2-Dichloroethane	62	7.049	7.055	-0.006	98	1551905	25.0	24.3	
60 Tert-amyl methyl ether	73	7.177	7.177	0.000	98	3577342	25.0	25.6	
* 61 Fluorobenzene (IS)	96	7.391	7.391	0.000	99	1880198	10.0	10.0	
62 n-Heptane	43	7.409	7.409	0.000	90	1519732	25.0	25.3	
63 n-Butanol	56	7.781	7.781	0.000	89	2015247	2187.5	2574.8	
64 Trichloroethene	95	7.878	7.878	0.000	97	1494366	25.0	25.5	
65 Methylcyclohexane	83	8.189	8.189	0.000	90	2228027	25.0	25.5	
66 1,2-Dichloropropane	63	8.208	8.214	-0.006	93	1293415	25.0	25.8	
67 Methyl methacrylate	69	8.305	8.305	0.000	89	680256	25.0	24.4	
68 1,4-Dioxane	88	8.311	8.317	-0.006	33	245561	1250.0	1336.6	
69 Dibromomethane	93	8.323	8.323	0.000	91	716621	25.0	26.1	
71 Dichlorobromomethane	83	8.561	8.567	-0.006	99	1800131	25.0	26.0	
72 2-Nitropropane	41	8.829	8.829	0.000	99	1232353	125.0	120.7	
75 1-Bromo-2-chloroethane	63	8.957	8.957	0.000	98	1345873	25.0	26.0	
76 cis-1,3-Dichloropropene	75	9.128	9.128	0.000	95	2115620	25.0	26.9	
77 4-Methyl-2-pentanone (MIBK)	43	9.311	9.311	0.000	95	8820004	250.0	228.4	
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	93	1932856	10.0	9.93	
79 Toluene	92	9.530	9.530	0.000	98	3637875	25.0	25.3	
97 trans-1,3-Dichloropropene	75	9.805	9.805	0.000	94	1830787	25.0	27.1	
99 Ethyl methacrylate	69	9.872	9.872	0.000	88	1503615	25.0	26.6	
100 1,1,2-Trichloroethane	97	10.012	10.012	0.000	91	1015421	25.0	25.3	
S 98 1,3-Dichloropropene, Total	100				0			54.0	
101 Tetrachloroethene	166	10.103	10.103	0.000	99	1868205	25.0	25.0	
102 1,3-Dichloropropane	76	10.183	10.183	0.000	91	1629434	25.0	25.1	
103 2-Hexanone	43	10.238	10.238	0.000	96	6265188	250.0	226.2	
105 Chlorodibromomethane	129	10.402	10.402	0.000	89	1431988	25.0	26.8	
106 Ethylene Dibromide	107	10.512	10.512	0.000	99	1015635	25.0	26.3	
* 107 Chlorobenzene-d5 (IS)	117	10.957	10.957	0.000	84	1524134	10.0	10.0	
108 1-Chlorohexane	91	10.969	10.969	0.000	96	1956574	25.0	24.3	
109 Chlorobenzene	112	10.981	10.981	0.000	96	4165079	25.0	25.2	
111 1,1,1,2-Tetrachloroethane	131	11.067	11.067	0.000	95	1602810	25.0	25.9	
112 Ethylbenzene	91	11.073	11.073	0.000	98	7124220	25.0	25.2	
113 m-Xylene & p-Xylene	106	11.189	11.189	0.000	93	5816765	50.0	51.2	
S 110 Xylenes, Total	106				0			77.0	
114 o-Xylene	106	11.524	11.524	0.000	96	2910559	25.0	25.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Styrene	104	11.542	11.542	0.000	95	4720060	25.0	26.6	
116 Bromoform	173	11.695	11.695	0.000	98	962919	25.0	26.7	
117 Isopropylbenzene	105	11.829	11.829	0.000	96	7055241	25.0	25.3	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.975	11.975	0.000	96	728398	10.0	9.89	
121 1,1,2,2-Tetrachloroethane	83	12.079	12.079	0.000	94	1321239	25.0	26.0	
122 Bromobenzene	156	12.091	12.091	0.000	93	1950999	25.0	26.1	
123 trans-1,4-Dichloro-2-butene	53	12.103	12.103	0.000	93	3709982	250.0	233.2	
124 1,2,3-Trichloropropane	110	12.121	12.121	0.000	81	382158	25.0	25.8	
125 N-Propylbenzene	91	12.164	12.164	0.000	98	8400419	25.0	25.3	
126 2-Chlorotoluene	126	12.237	12.237	0.000	97	1862841	25.0	26.2	
127 1,3,5-Trimethylbenzene	105	12.298	12.298	0.000	94	6451030	25.0	26.1	
128 4-Chlorotoluene	126	12.329	12.329	0.000	97	1878451	25.0	26.3	
129 tert-Butylbenzene	134	12.542	12.542	0.000	92	1569770	25.0	26.3	
130 Pentachloroethane	167	12.573	12.572	0.001	90	1324791	25.0	27.5	
131 1,2,4-Trimethylbenzene	105	12.585	12.585	0.000	97	6538421	25.0	26.2	
132 sec-Butylbenzene	105	12.707	12.707	0.000	94	8174245	25.0	25.9	
133 1,3-Dichlorobenzene	146	12.804	12.804	0.000	99	3782225	25.0	26.6	
134 4-Isopropyltoluene	119	12.816	12.816	0.000	96	7391207	25.0	26.5	
* 135 1,4-Dichlorobenzene-d4	152	12.859	12.859	0.000	94	914845	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.877	12.877	0.000	95	3778431	25.0	25.8	
137 1,2,3-Trimethylbenzene	120	12.890	12.889	0.001	98	2967904	25.0	26.2	
138 Benzyl chloride	126	12.957	12.957	0.000	98	629744	25.0	28.9	
139 n-Butylbenzene	92	13.109	13.109	0.000	97	3529895	25.0	27.7	
140 1,2-Dichlorobenzene	146	13.139	13.139	0.000	99	3486320	25.0	26.1	
142 1,2-Dibromo-3-Chloropropane	155	13.682	13.682	0.000	89	254058	25.0	28.8	
143 1,3,5-Trichlorobenzene	180	13.810	13.810	0.000	98	2968531	25.0	28.5	
144 1,2,4-Trichlorobenzene	180	14.231	14.231	0.000	94	2550225	25.0	30.2	
145 Hexachlorobutadiene	225	14.316	14.316	0.000	96	1148410	25.0	28.3	
146 Naphthalene	128	14.408	14.407	0.001	97	4554345	25.0	28.9	
147 1,2,3-Trichlorobenzene	180	14.554	14.554	0.000	96	2146966	25.0	30.9	
165 Isopropyl alcohol	45		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00100	Amount Added: 25.00	Units: uL	
MSV_LL_#2_826_00109	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00175	Amount Added: 25.00	Units: uL	
MSV_LLcentISS_00009	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 31-Oct-2023 09:21:19

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D

Injection Date: 23-Oct-2023 04:35:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: IC std7

Worklist Smp#: 19

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

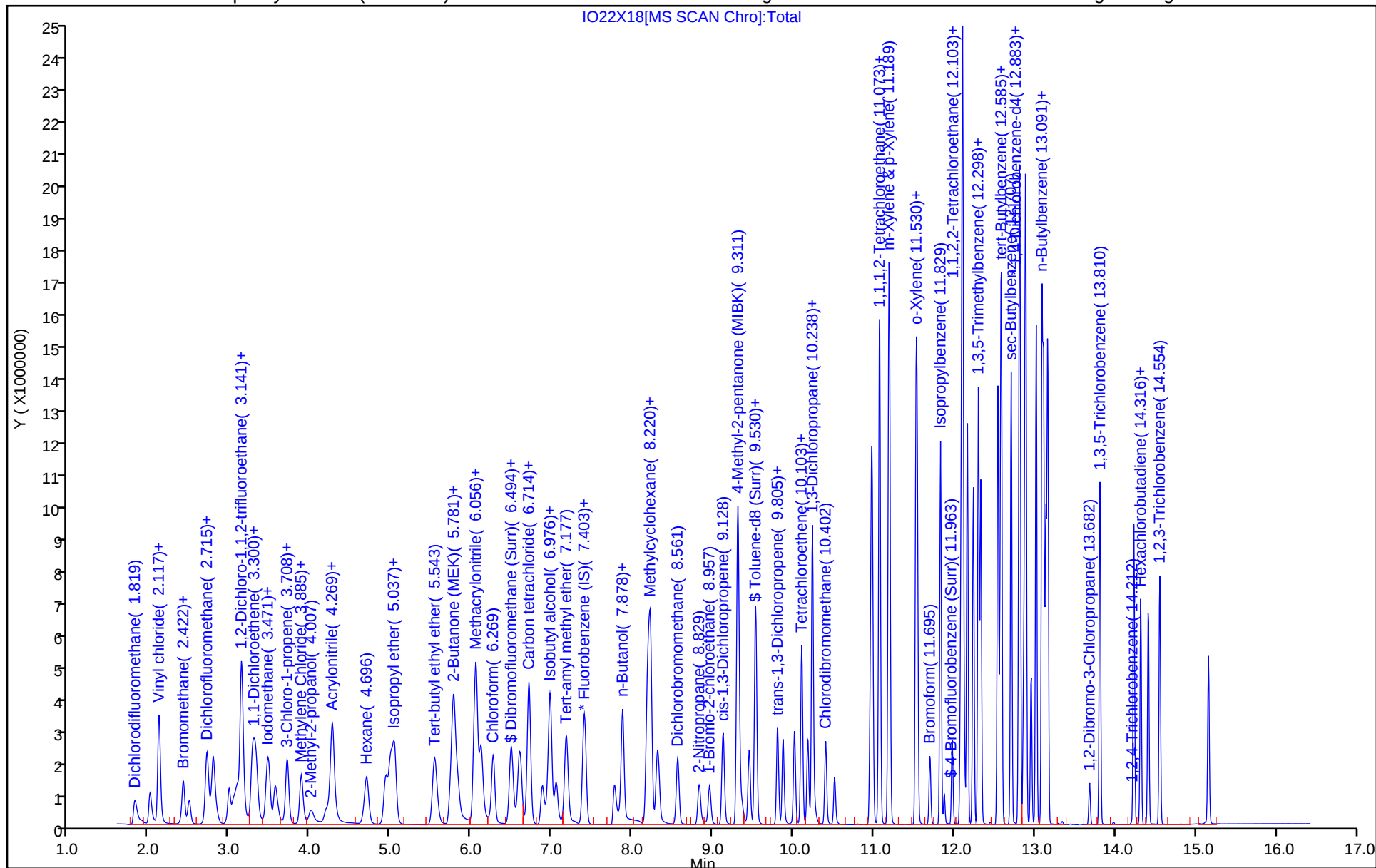
ALS Bottle#: 18

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

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



Eurofins Lancaster Laboratories Environment Testing, LLC

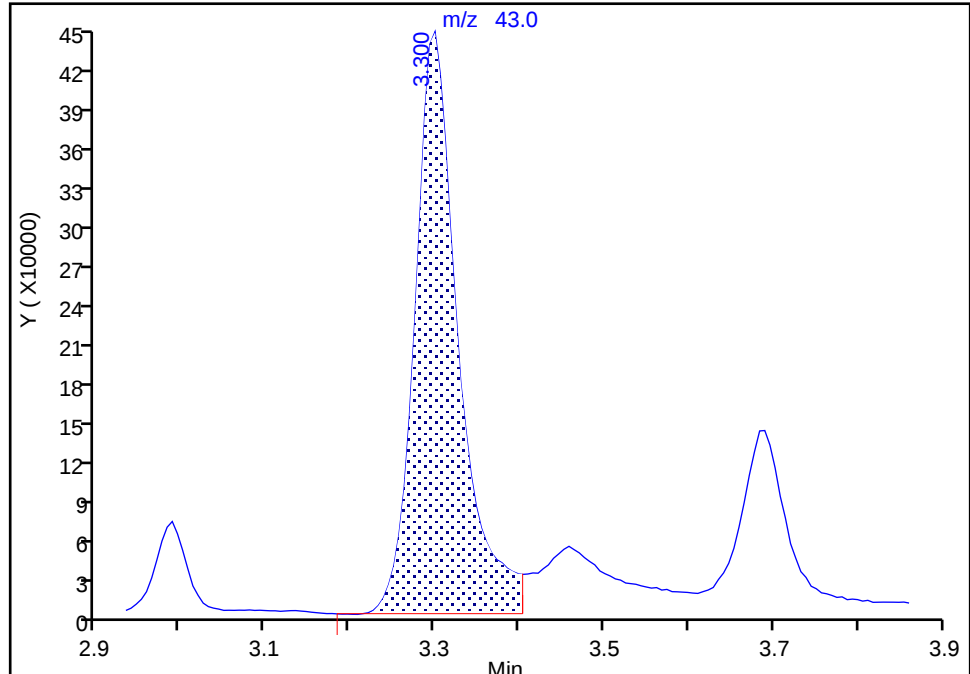
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Lims ID: IC std7
Client ID:
Operator ID: gaw91131 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm i.d.) Detector: MS Quad

16 Acetone, CAS: 67-64-1

Signal: 1

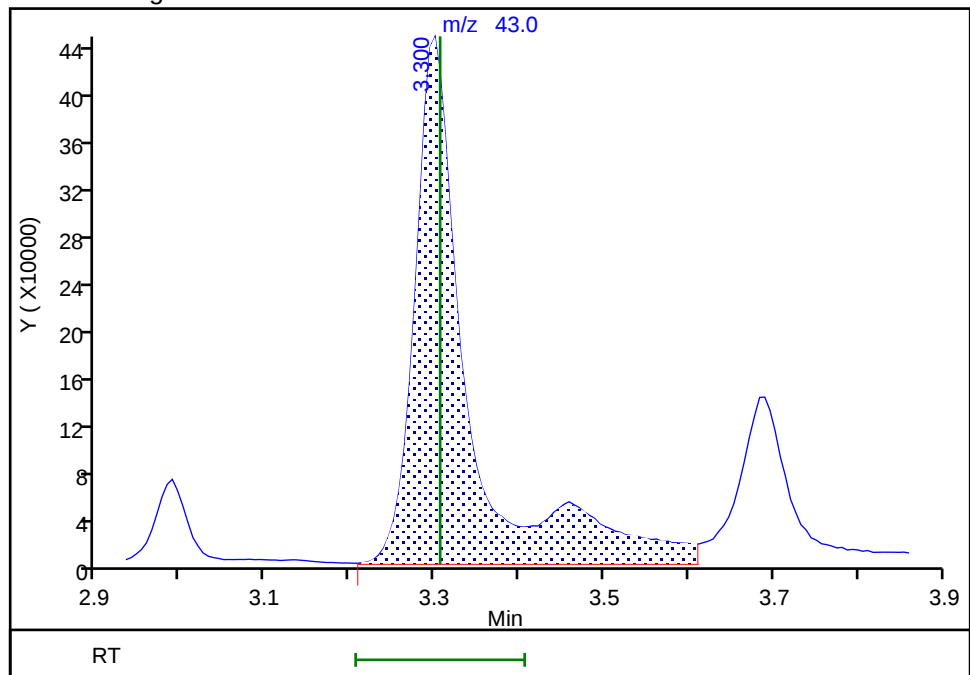
RT: 3.30
Area: 1598963
Amount: 195.1954
Amount Units: ug/l

Processing Integration Results



RT: 3.30
Area: 1974705
Amount: 237.6110
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:38:01 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

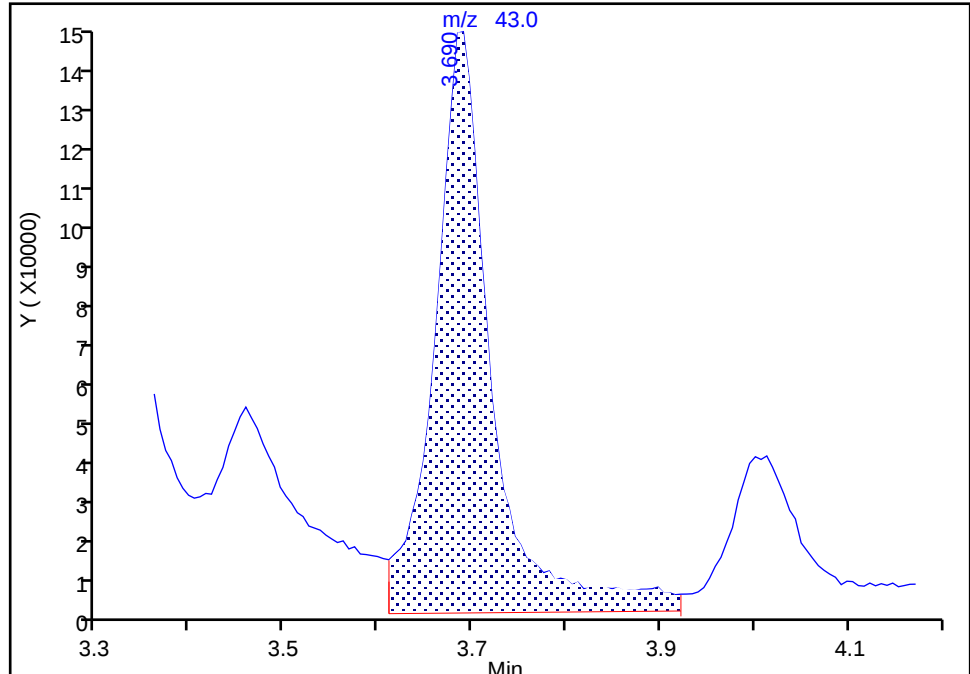
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Injection Date: 23-Oct-2023 04:35:30 Instrument ID: 19930
Lims ID: IC std7
Client ID:
Operator ID: gaw91131 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

23 Methyl acetate, CAS: 79-20-9

Signal: 1

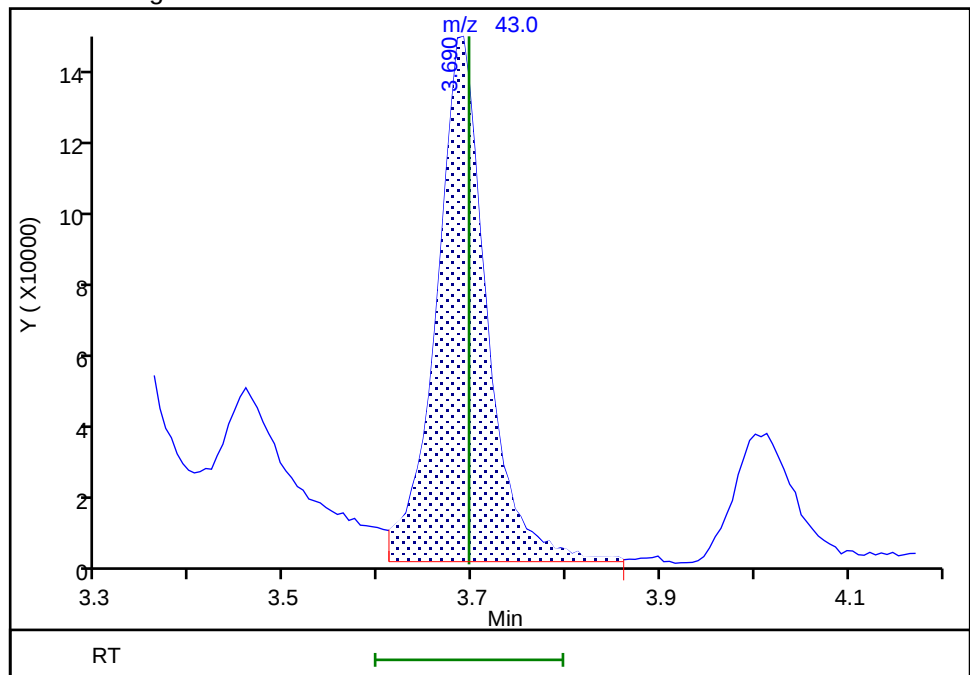
RT: 3.69
Area: 585924
Amount: 29.674706
Amount Units: ug/l

Processing Integration Results



RT: 3.69
Area: 494740
Amount: 25.526622
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:50:19 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC

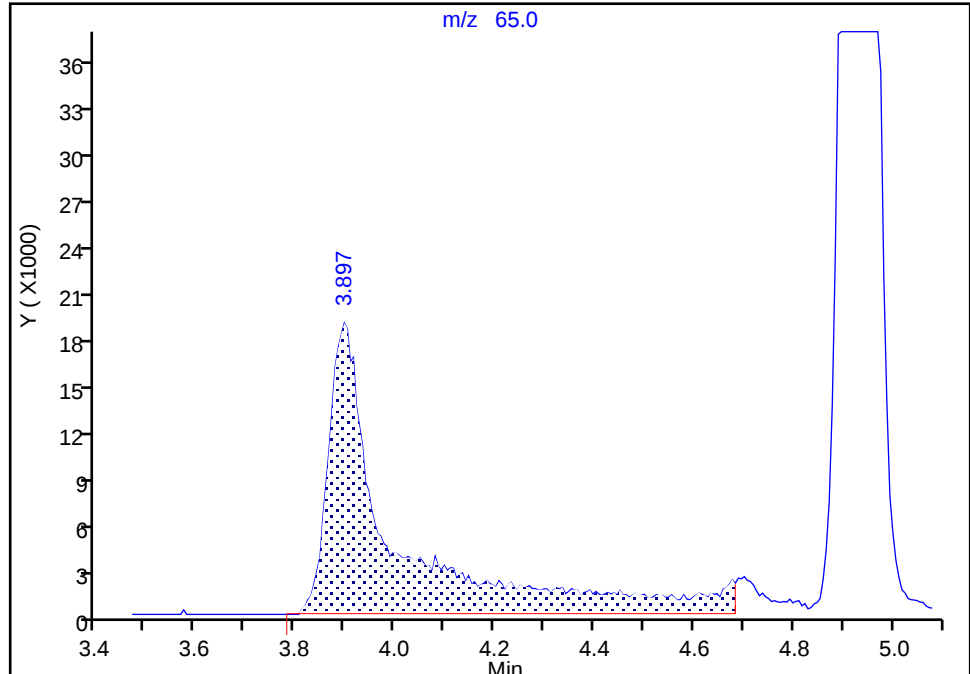
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Injection Date: 23-Oct-2023 04:35:30 Instrument ID: 19930
Lims ID: IC std7
Client ID:
Operator ID: gaw91131 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

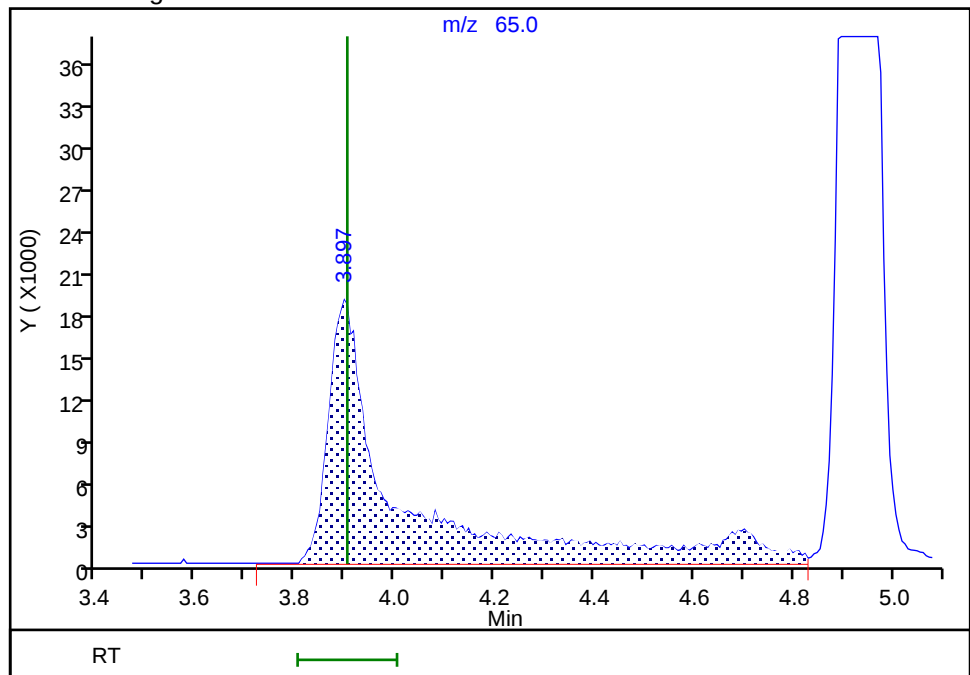
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Area: 172448
Amount: 50.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.90
Area: 183175
Amount: 50.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:38:45 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Calibration

/ Dichlorodifluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

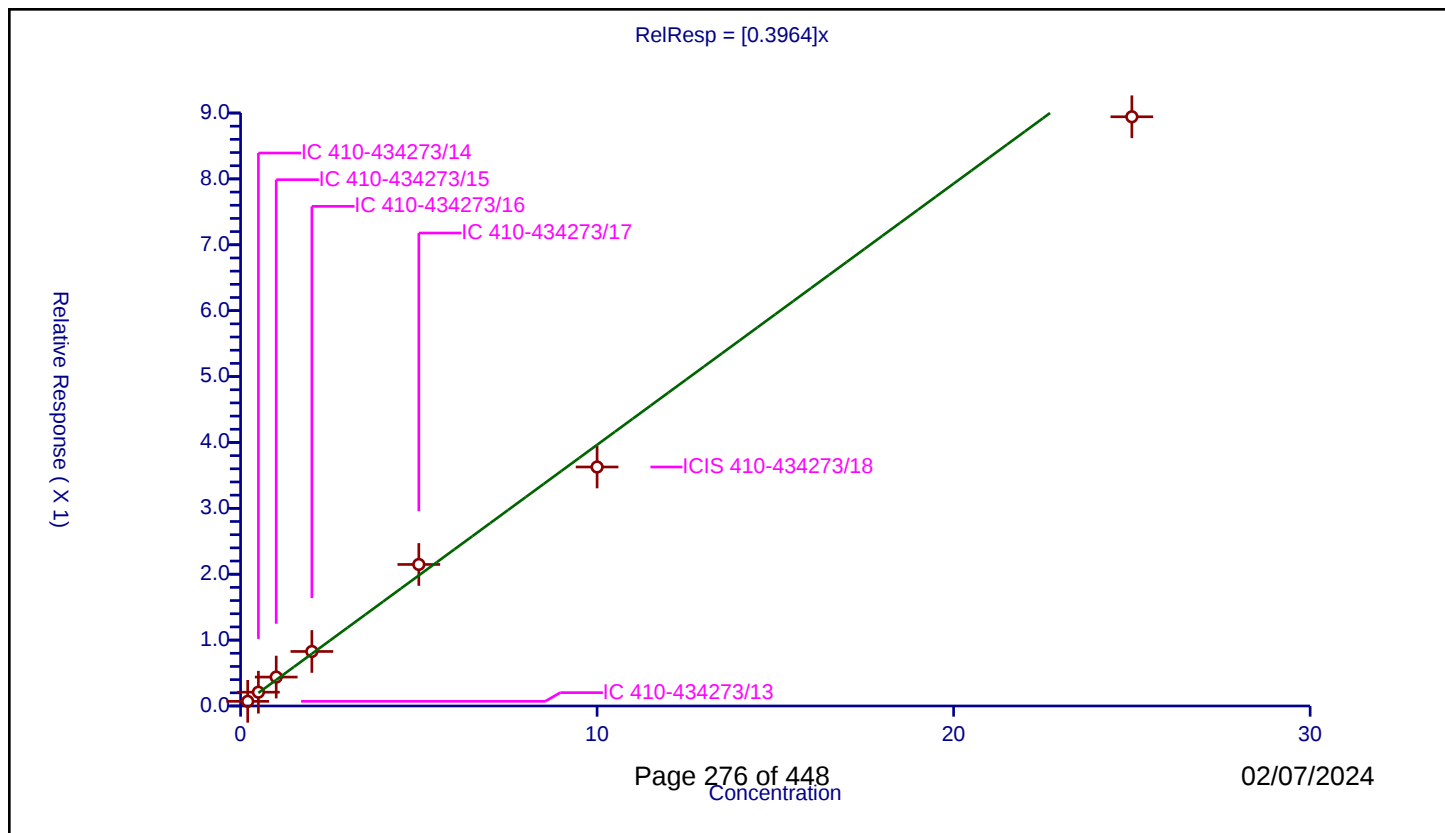
Curve Coefficients

Intercept: 0
 Slope: 0.3964

Error Coefficients

Standard Error: 762000
 Relative Standard Error: 9.4
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.070577	10.0	1676893.0	0.352885	Y
2	IC 410-434273/14	0.5	0.209471	10.0	1823738.0	0.418942	Y
3	IC 410-434273/15	1.0	0.439037	10.0	1679039.0	0.439037	Y
4	IC 410-434273/16	2.0	0.827418	10.0	1680409.0	0.413709	Y
5	IC 410-434273/17	5.0	2.148136	10.0	1736785.0	0.429627	Y
6	ICIS 410-434273/18	10.0	3.627616	10.0	1932713.0	0.362762	Y
7	IC 410-434273/19	25.0	8.942915	10.0	1880198.0	0.357717	Y



Calibration

/ Chloromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

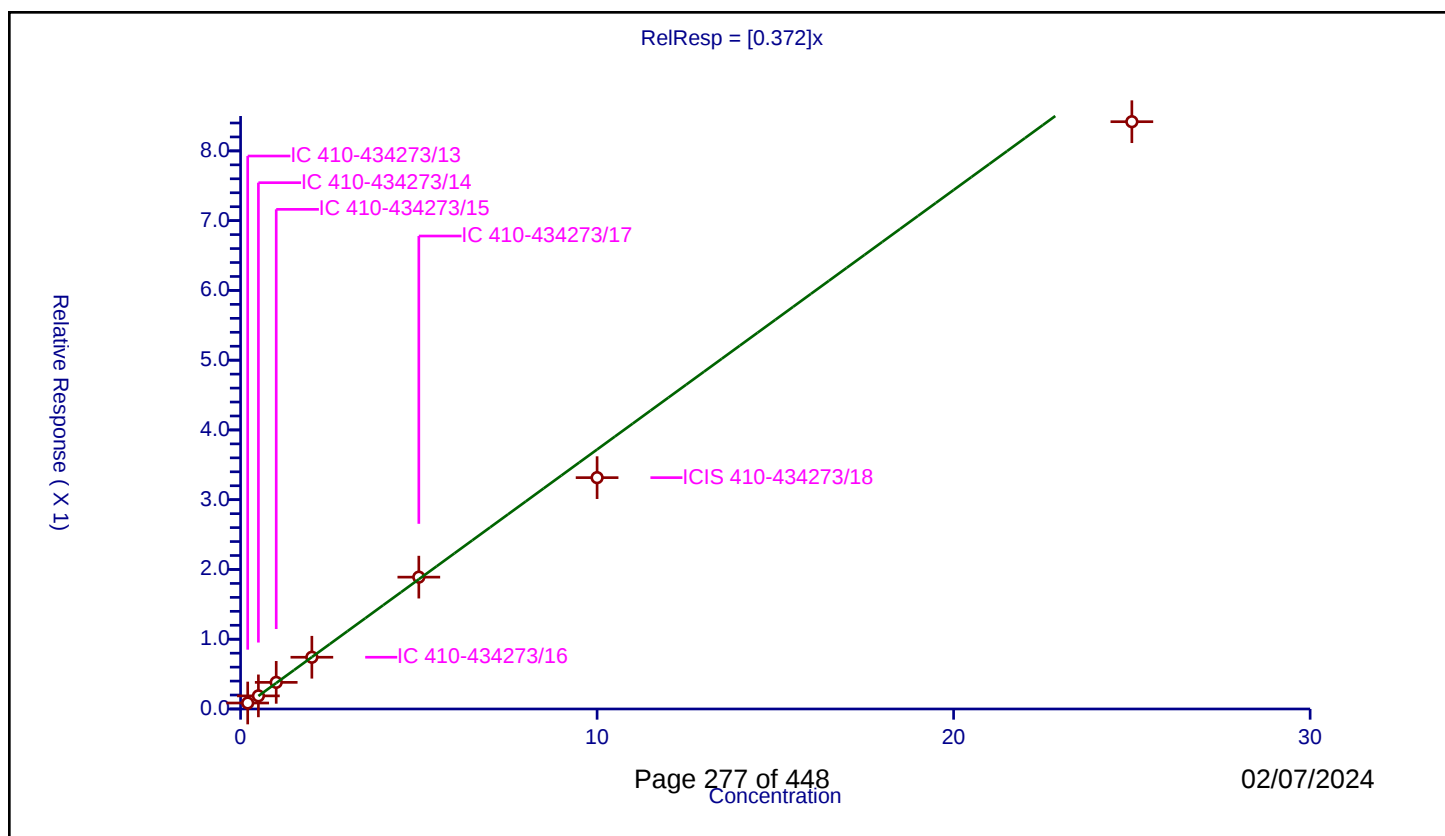
Curve Coefficients

Intercept: 0
 Slope: 0.372

Error Coefficients

Standard Error: 712000
 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 410-434273/13	0.2	0.085808	10.0	1676893.0	0.429038	Y
2	IC 410-434273/14	0.5	0.187829	10.0	1823738.0	0.375657	Y
3	IC 410-434273/15	1.0	0.381671	10.0	1679039.0	0.381671	Y
4	IC 410-434273/16	2.0	0.741927	10.0	1680409.0	0.370963	Y
5	IC 410-434273/17	5.0	1.89024	10.0	1736785.0	0.378048	Y
6	ICIS 410-434273/18	10.0	3.316405	10.0	1932713.0	0.331641	Y
7	IC 410-434273/19	25.0	8.418491	10.0	1880198.0	0.33674	Y



Calibration

/ Vinyl chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

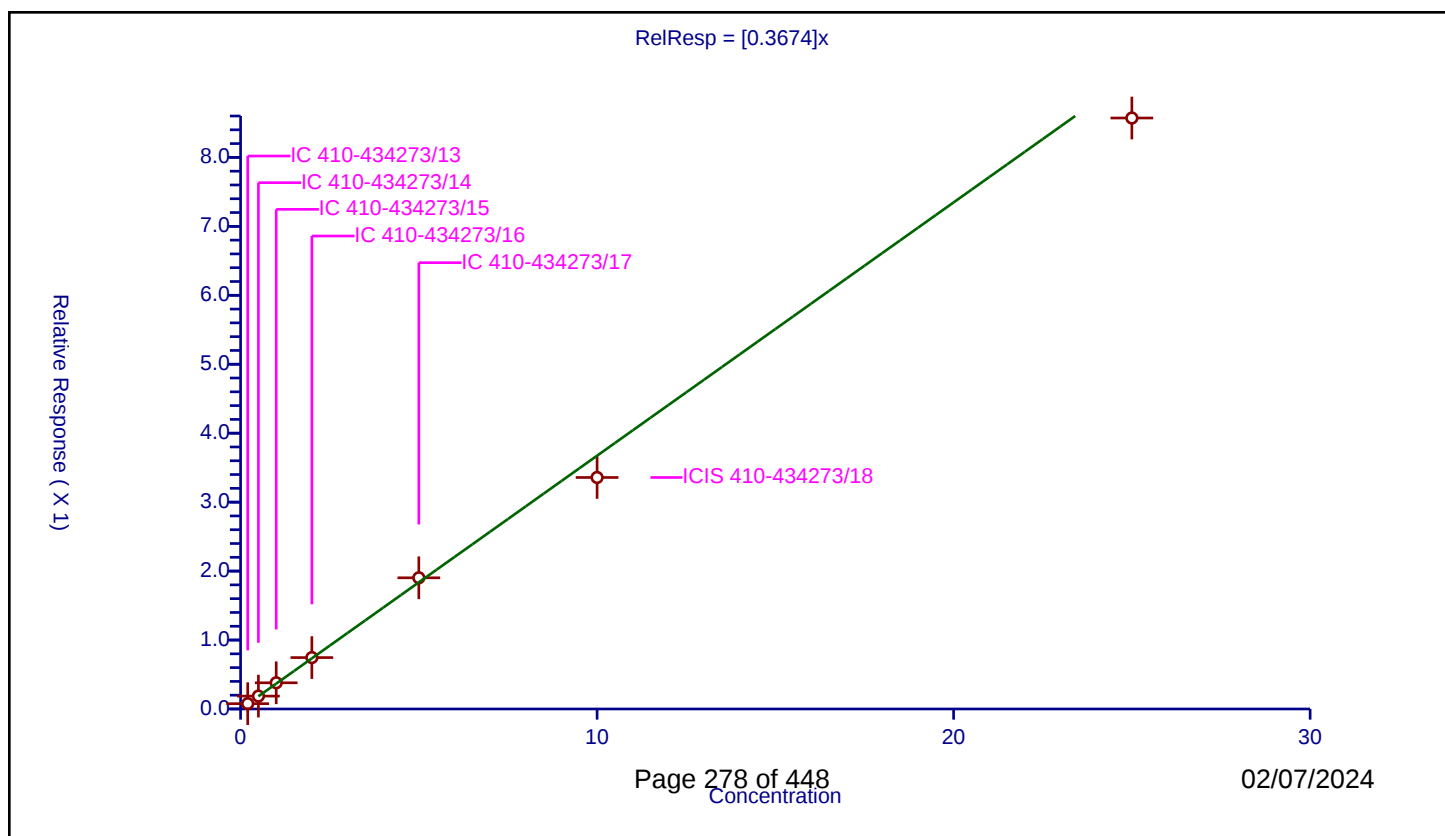
Curve Coefficients

Intercept: 0
Slope: 0.3674

Error Coefficients

Standard Error: 724000
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 410-434273/13	0.2	0.077101	10.0	1676893.0	0.385505	Y
2	IC 410-434273/14	0.5	0.18711	10.0	1823738.0	0.37422	Y
3	IC 410-434273/15	1.0	0.379902	10.0	1679039.0	0.379902	Y
4	IC 410-434273/16	2.0	0.74542	10.0	1680409.0	0.37271	Y
5	IC 410-434273/17	5.0	1.902676	10.0	1736785.0	0.380535	Y
6	ICIS 410-434273/18	10.0	3.357488	10.0	1932713.0	0.335749	Y
7	IC 410-434273/19	25.0	8.570826	10.0	1880198.0	0.342833	Y



Calibration

/ Butadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

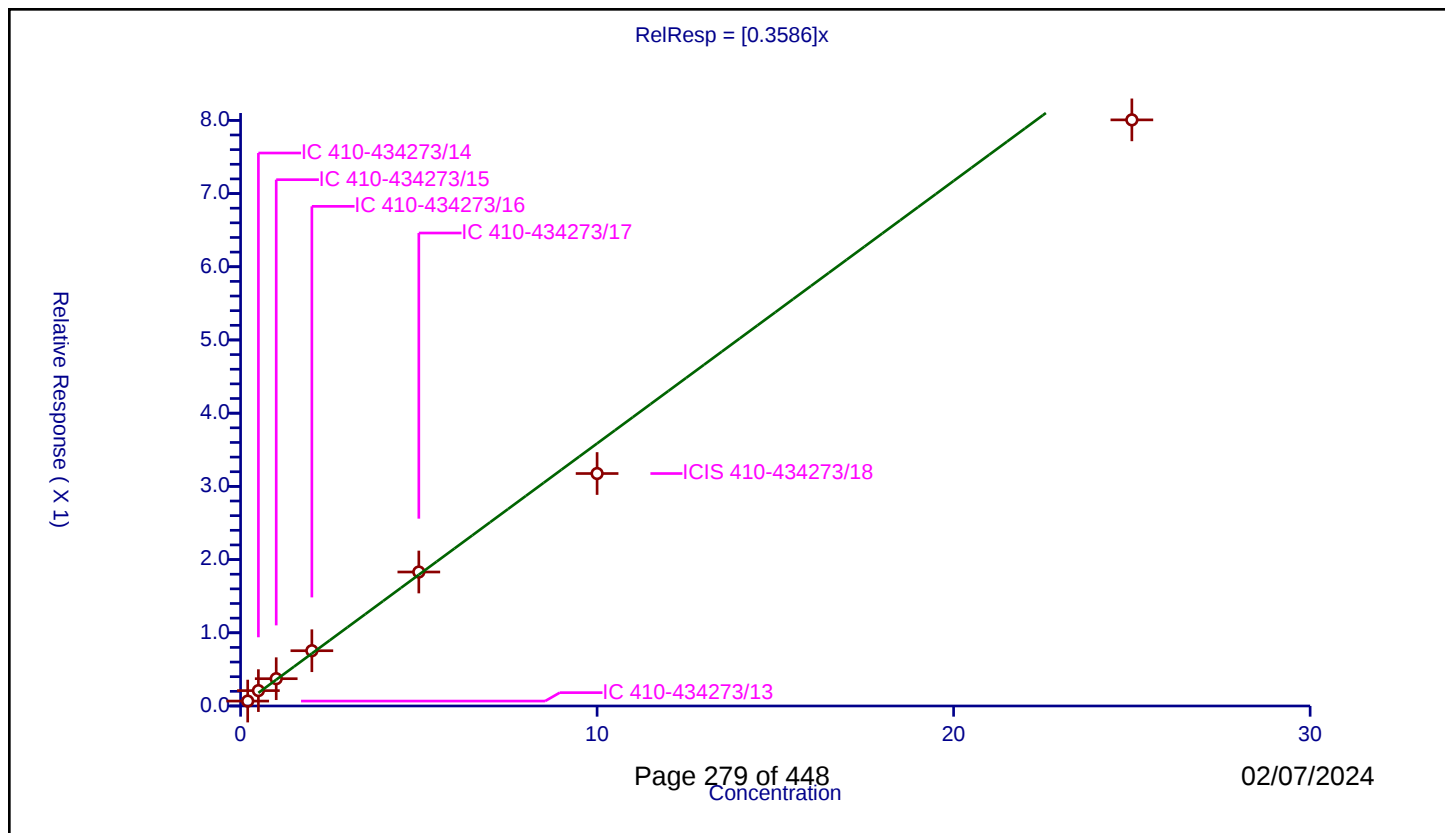
Curve Coefficients

Intercept: 0
 Slope: 0.3586

Error Coefficients

Standard Error: 679000
 Relative Standard Error: 10.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.067166	10.0	1676893.0	0.335829	Y
2	IC 410-434273/14	0.5	0.210036	10.0	1823738.0	0.420071	Y
3	IC 410-434273/15	1.0	0.372969	10.0	1679039.0	0.372969	Y
4	IC 410-434273/16	2.0	0.755042	10.0	1680409.0	0.377521	Y
5	IC 410-434273/17	5.0	1.830186	10.0	1736785.0	0.366037	Y
6	ICIS 410-434273/18	10.0	3.175417	10.0	1932713.0	0.317542	Y
7	IC 410-434273/19	25.0	8.006205	10.0	1880198.0	0.320248	Y



Calibration

/ Bromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

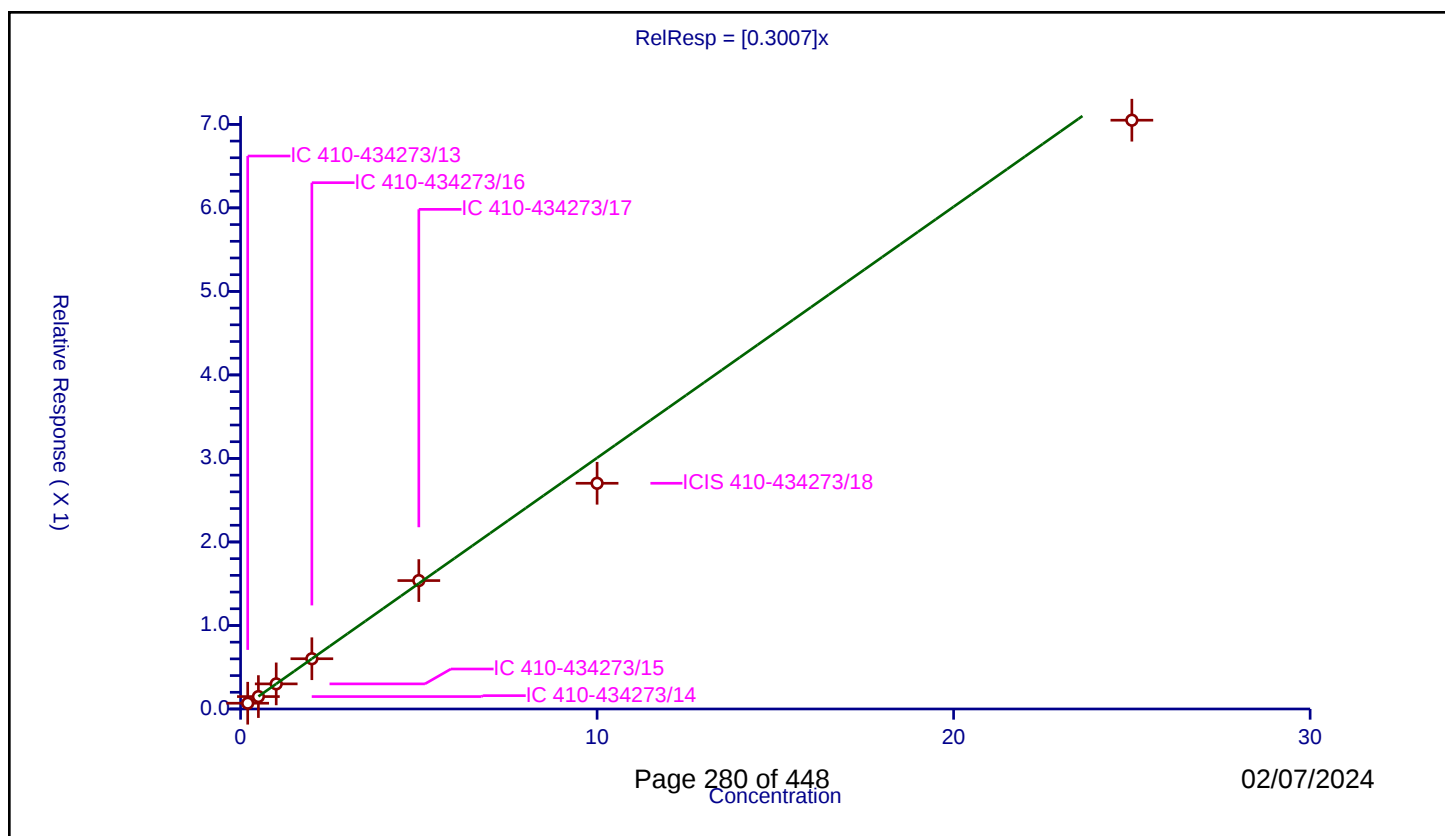
Curve Coefficients

Intercept: 0
Slope: 0.3007

Error Coefficients

Standard Error: 594000
Relative Standard Error: 7.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.069205	10.0	1676893.0	0.346027	Y
2	IC 410-434273/14	0.5	0.148689	10.0	1823738.0	0.297378	Y
3	IC 410-434273/15	1.0	0.300559	10.0	1679039.0	0.300559	Y
4	IC 410-434273/16	2.0	0.601836	10.0	1680409.0	0.300918	Y
5	IC 410-434273/17	5.0	1.537634	10.0	1736785.0	0.307527	Y
6	ICIS 410-434273/18	10.0	2.702564	10.0	1932713.0	0.270256	Y
7	IC 410-434273/19	25.0	7.049789	10.0	1880198.0	0.281992	Y



Calibration

/ Chloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

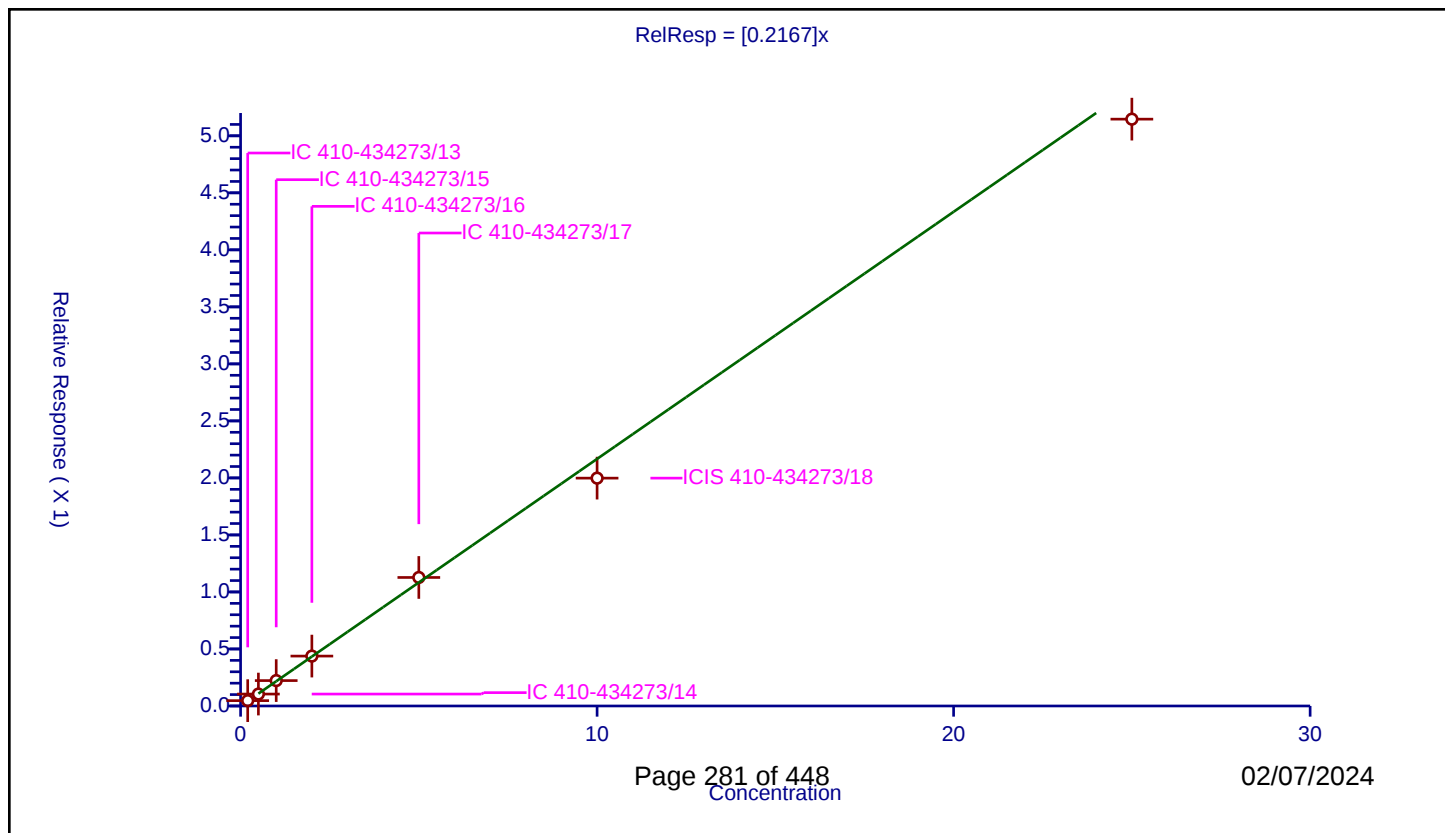
Curve Coefficients

Intercept: 0
 Slope: 0.2167

Error Coefficients

Standard Error: 434000
 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 410-434273/13	0.2	0.046968	10.0	1676893.0	0.234839	Y
2	IC 410-434273/14	0.5	0.104664	10.0	1823738.0	0.209328	Y
3	IC 410-434273/15	1.0	0.222657	10.0	1679039.0	0.222657	Y
4	IC 410-434273/16	2.0	0.437685	10.0	1680409.0	0.218843	Y
5	IC 410-434273/17	5.0	1.126944	10.0	1736785.0	0.225389	Y
6	ICIS 410-434273/18	10.0	1.998139	10.0	1932713.0	0.199814	Y
7	IC 410-434273/19	25.0	5.146155	10.0	1880198.0	0.205846	Y



Calibration

/ Dichlorofluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

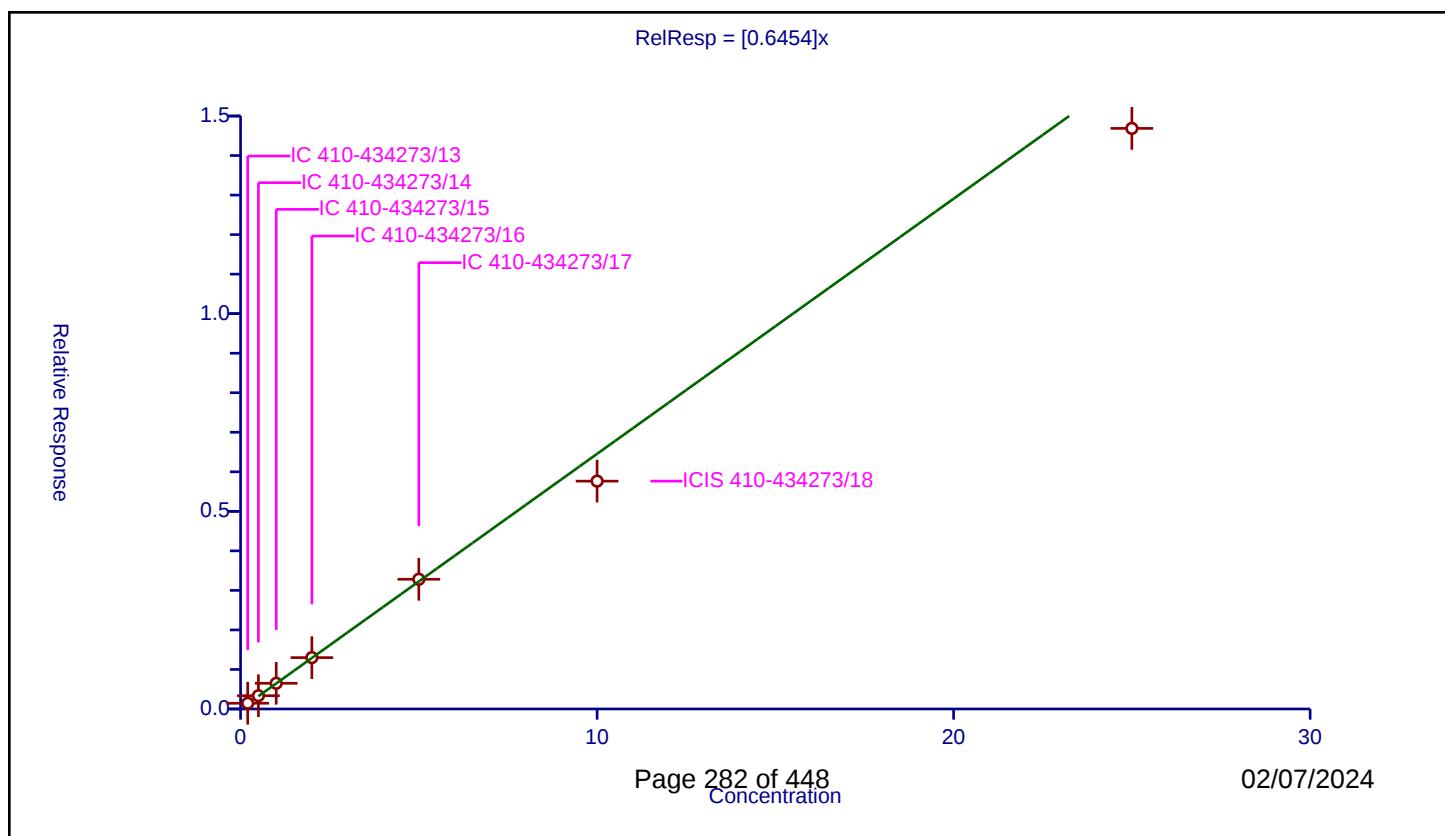
Curve Coefficients

Intercept: 0
Slope: 0.6454

Error Coefficients

Standard Error: 1240000
Relative Standard Error: 7.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.145227	10.0	1676893.0	0.726135	Y
2	IC 410-434273/14	0.5	0.335788	10.0	1823738.0	0.671577	Y
3	IC 410-434273/15	1.0	0.650146	10.0	1679039.0	0.650146	Y
4	IC 410-434273/16	2.0	1.29935	10.0	1680409.0	0.649675	Y
5	IC 410-434273/17	5.0	3.281529	10.0	1736785.0	0.656306	Y
6	ICIS 410-434273/18	10.0	5.763918	10.0	1932713.0	0.576392	Y
7	IC 410-434273/19	25.0	14.686847	10.0	1880198.0	0.587474	Y



Calibration

/ Trichlorofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

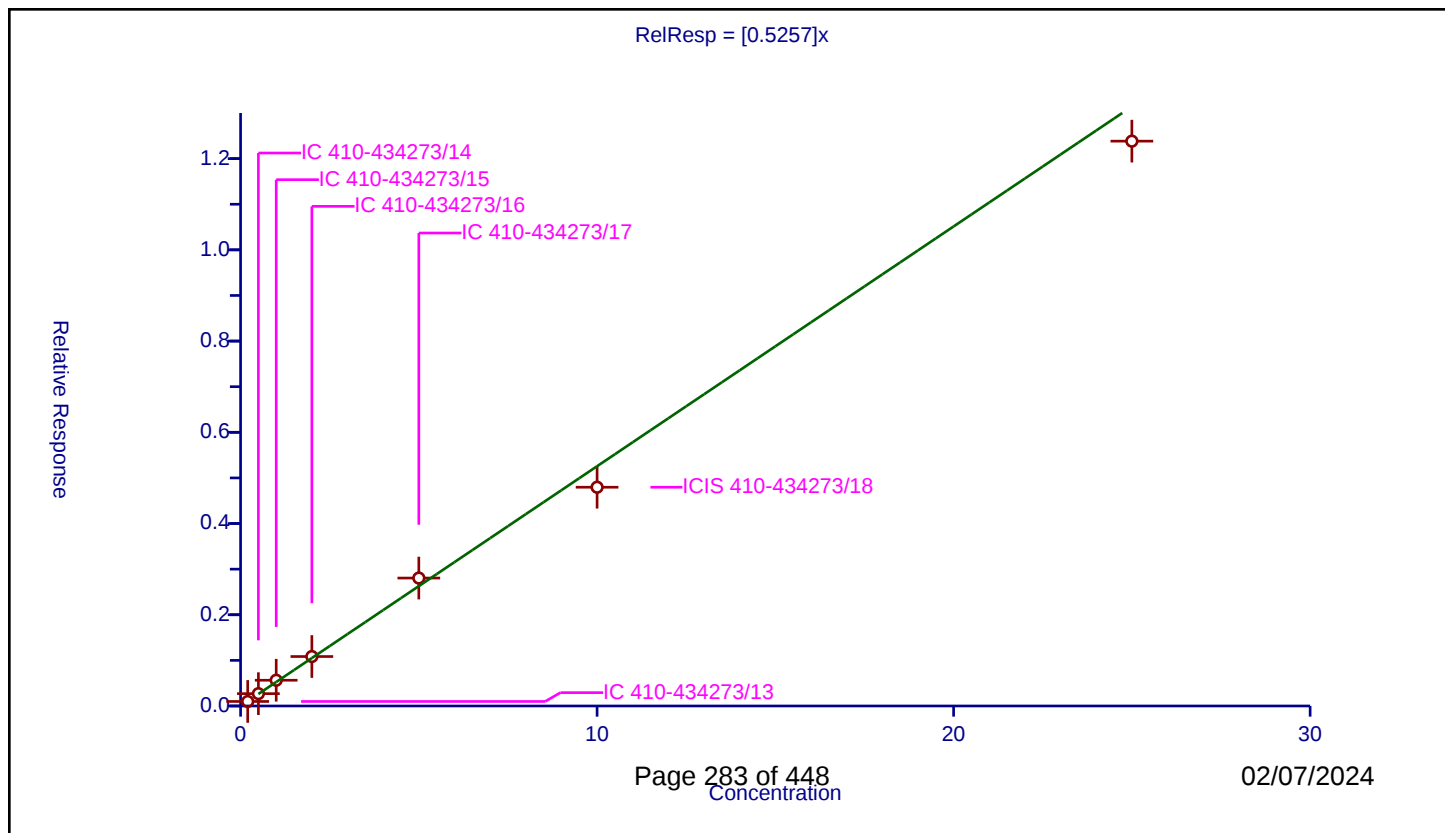
Curve Coefficients

Intercept: 0
 Slope: 0.5257

Error Coefficients

Standard Error: 1050000
 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 410-434273/13	0.2	0.09916	10.0	1676893.0	0.495798	Y
2	IC 410-434273/14	0.5	0.270521	10.0	1823738.0	0.541043	Y
3	IC 410-434273/15	1.0	0.564609	10.0	1679039.0	0.564609	Y
4	IC 410-434273/16	2.0	1.084444	10.0	1680409.0	0.542222	Y
5	IC 410-434273/17	5.0	2.804964	10.0	1736785.0	0.560993	Y
6	ICIS 410-434273/18	10.0	4.79601	10.0	1932713.0	0.479601	Y
7	IC 410-434273/19	25.0	12.383116	10.0	1880198.0	0.495325	Y



Calibration

/ Ethyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

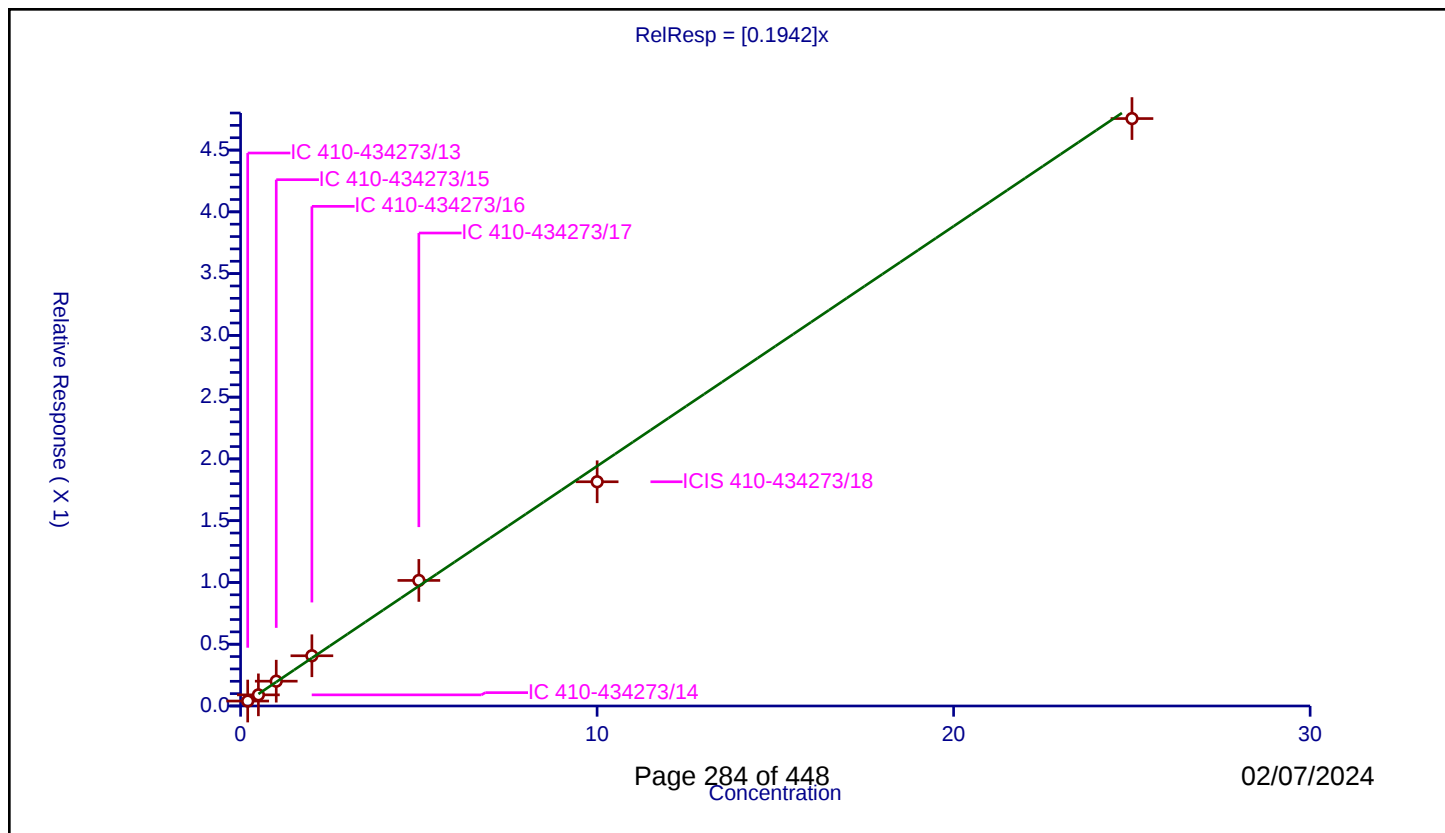
Curve Coefficients

Intercept: 0
 Slope: 0.1942

Error Coefficients

Standard Error: 400000
 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 410-434273/13	0.200027	0.04005	10.0	1676893.0	0.200224	Y
2	IC 410-434273/14	0.500068	0.090018	10.0	1823738.0	0.180012	Y
3	IC 410-434273/15	1.000135	0.200799	10.0	1679039.0	0.200772	Y
4	IC 410-434273/16	2.00027	0.40652	10.0	1680409.0	0.203233	Y
5	IC 410-434273/17	5.000676	1.016441	10.0	1736785.0	0.203261	Y
6	ICIS 410-434273/18	10.001352	1.815008	10.0	1932713.0	0.181476	Y
7	IC 410-434273/19	25.00338	4.755042	10.0	1880198.0	0.190176	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

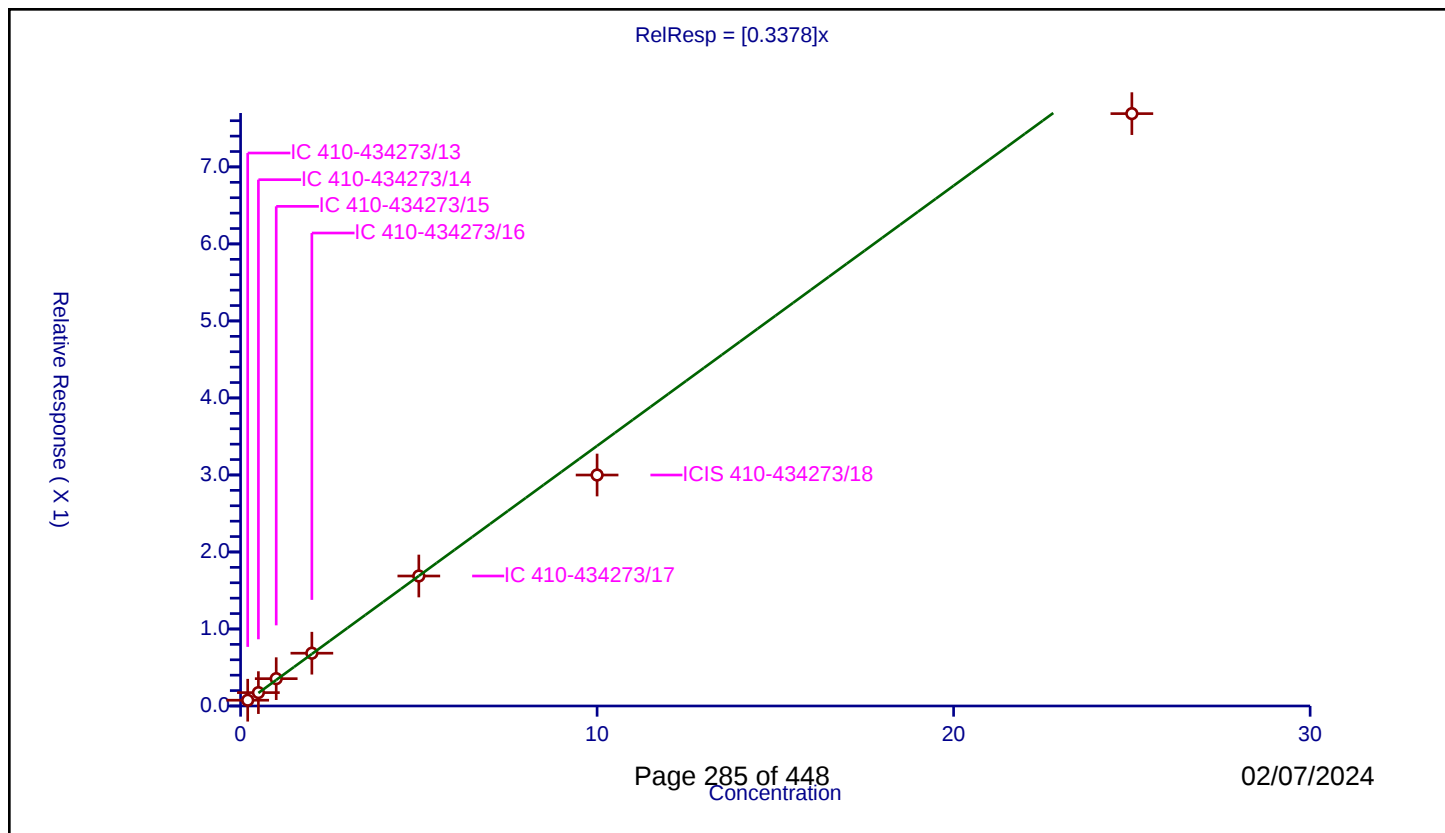
Curve Coefficients

Intercept: 0
 Slope: 0.3378

Error Coefficients

Standard Error: 650000
 Relative Standard Error: 7.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.074811	10.0	1676893.0	0.374055	Y
2	IC 410-434273/14	0.5	0.173764	10.0	1823738.0	0.347528	Y
3	IC 410-434273/15	1.0	0.354911	10.0	1679039.0	0.354911	Y
4	IC 410-434273/16	2.0	0.685547	10.0	1680409.0	0.342774	Y
5	IC 410-434273/17	5.0	1.688015	10.0	1736785.0	0.337603	Y
6	ICIS 410-434273/18	10.0	2.999354	10.0	1932713.0	0.299935	Y
7	IC 410-434273/19	25.0	7.692036	10.0	1880198.0	0.307681	Y



Calibration

/ Acrolein

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

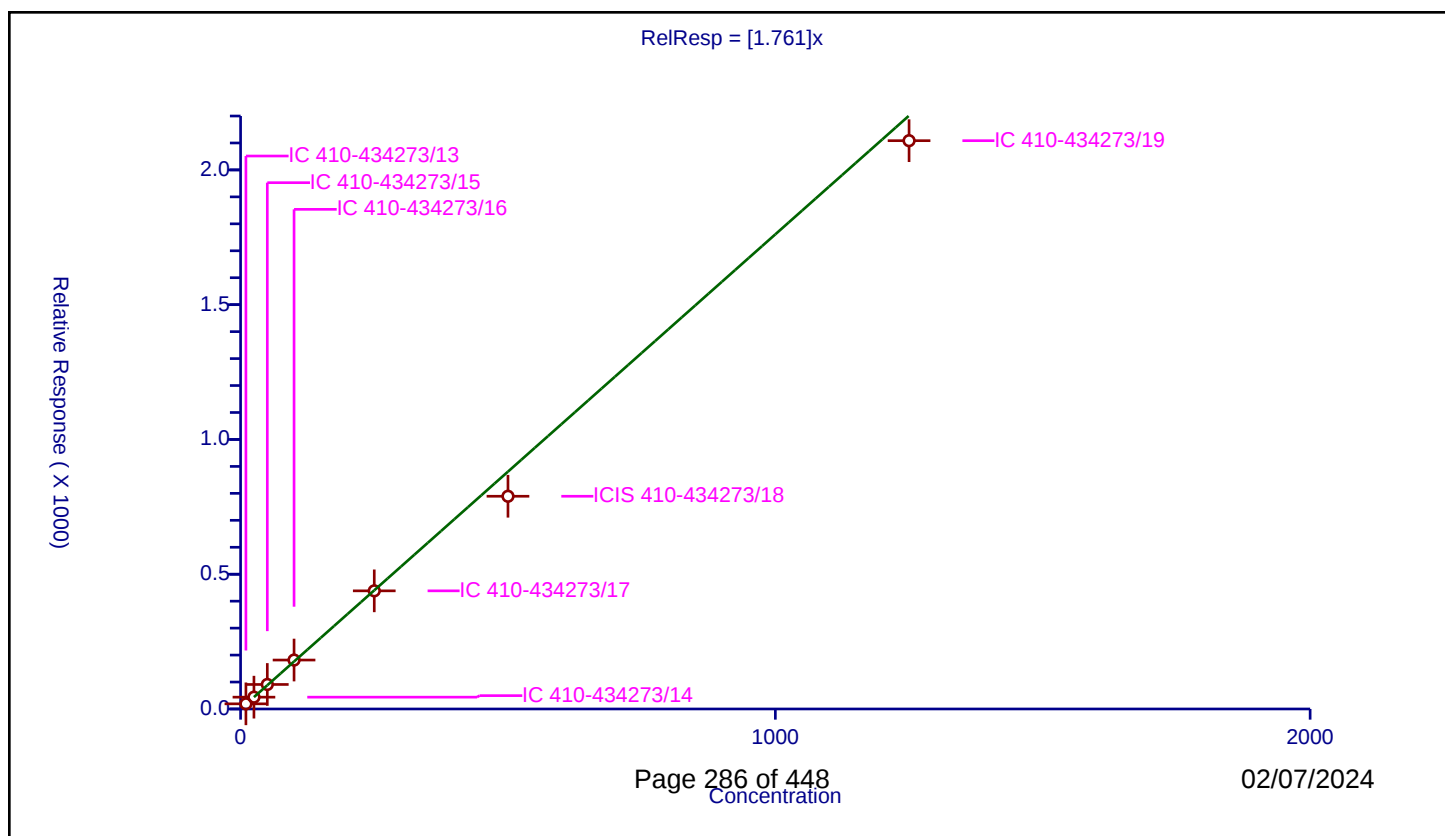
Curve Coefficients

Intercept: 0
Slope: 1.761

Error Coefficients

Standard Error: 3400000
Relative Standard Error: 6.1
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	10.000241	19.183575	50.0	135285.0	1.918311	Y
2	IC 410-434273/14	25.000603	43.920435	50.0	152001.0	1.756775	Y
3	IC 410-434273/15	50.001207	90.933019	50.0	149118.0	1.818617	Y
4	IC 410-434273/16	100.002413	181.559926	50.0	145821.0	1.815555	Y
5	IC 410-434273/17	250.006033	438.338924	50.0	141312.0	1.753313	Y
6	ICIS 410-434273/18	500.012065	789.237379	50.0	179329.0	1.578437	Y
7	IC 410-434273/19	1250.030164	2108.435103	50.0	183175.0	1.686707	Y



Calibration

/ 1,1-Dichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

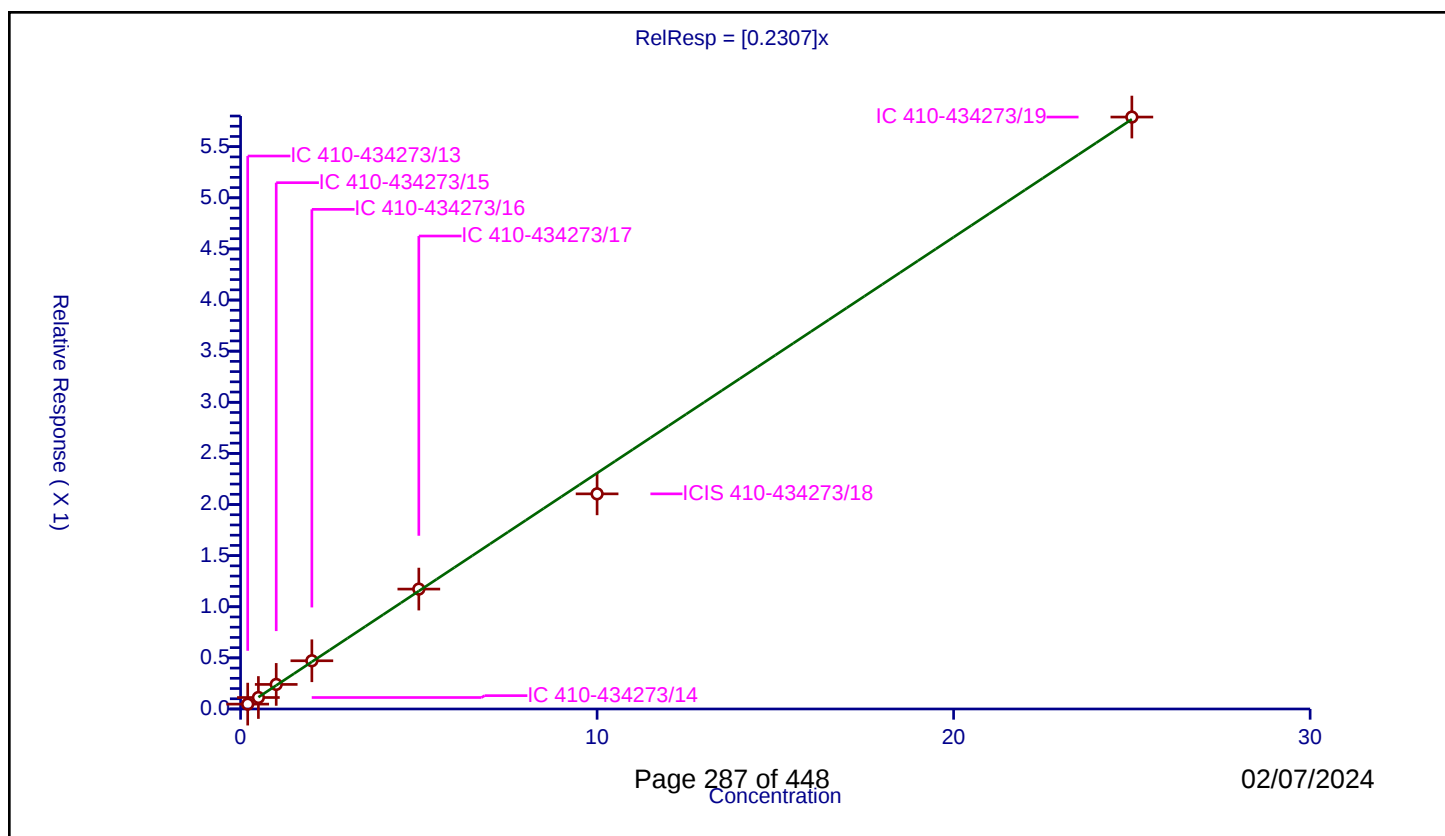
Curve Coefficients

Intercept: 0
 Slope: 0.2307

Error Coefficients

Standard Error: 483000
 Relative Standard Error: 4.4
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.047546	10.0	1676893.0	0.237731	Y
2	IC 410-434273/14	0.5	0.112335	10.0	1823738.0	0.22467	Y
3	IC 410-434273/15	1.0	0.240322	10.0	1679039.0	0.240322	Y
4	IC 410-434273/16	2.0	0.471599	10.0	1680409.0	0.2358	Y
5	IC 410-434273/17	5.0	1.172926	10.0	1736785.0	0.234585	Y
6	ICIS 410-434273/18	10.0	2.104332	10.0	1932713.0	0.210433	Y
7	IC 410-434273/19	25.0	5.789709	10.0	1880198.0	0.231588	Y



Calibration

/ Acetone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

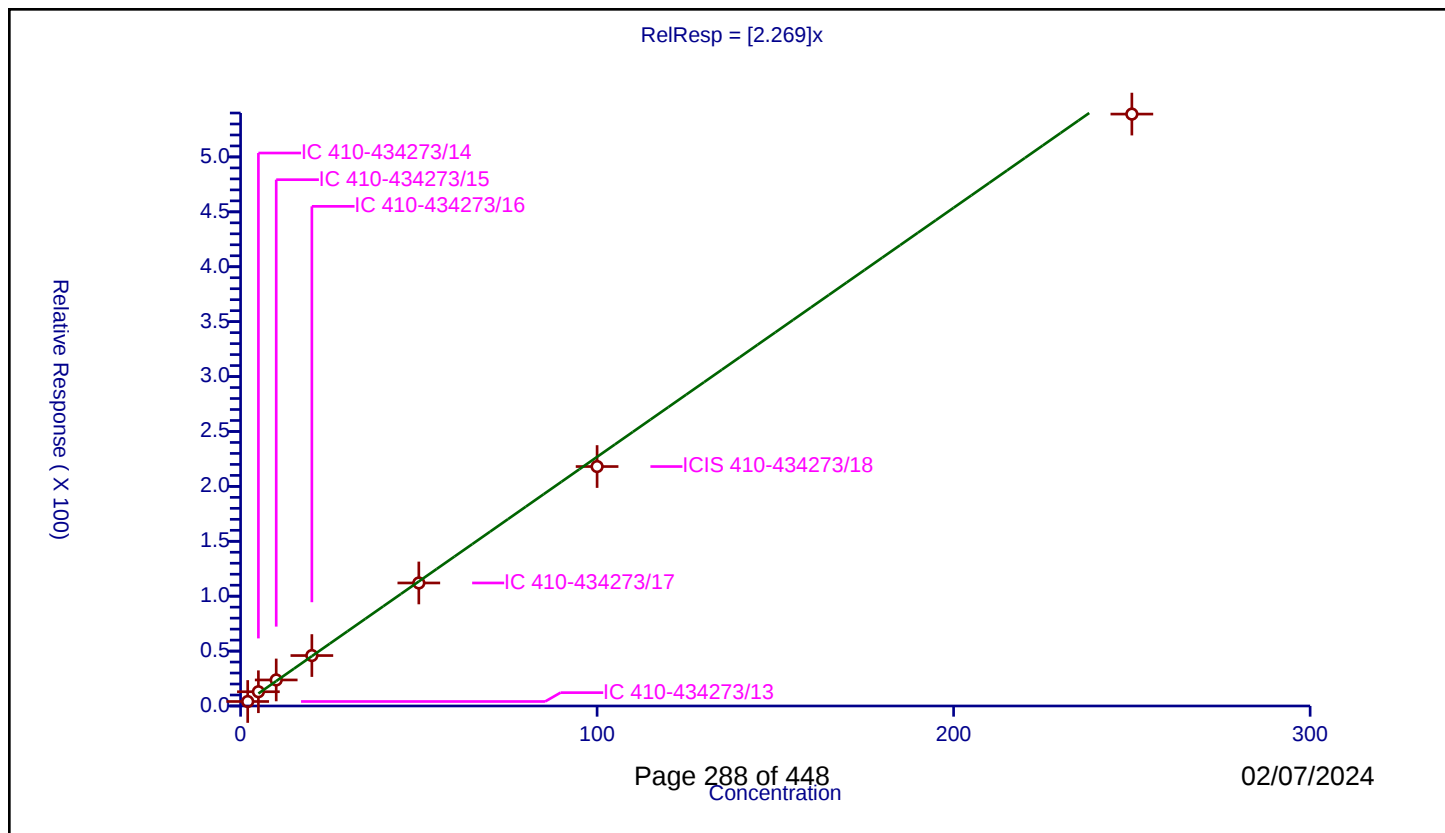
Curve Coefficients

Intercept: 0
Slope: 2.269

Error Coefficients

Standard Error: 879000
Relative Standard Error: 7.9
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	2.0	4.081384	50.0	135285.0	2.040692	Y
2	IC 410-434273/14	5.0	12.972283	50.0	152001.0	2.594457	Y
3	IC 410-434273/15	10.0	23.7074	50.0	149118.0	2.37074	Y
4	IC 410-434273/16	20.0	45.928227	50.0	145821.0	2.296411	Y
5	IC 410-434273/17	50.0	112.025518	50.0	141312.0	2.24051	Y
6	ICIS 410-434273/18	100.0	218.063169	50.0	179329.0	2.180632	Y
7	IC 410-434273/19	250.0	539.021428	50.0	183175.0	2.156086	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

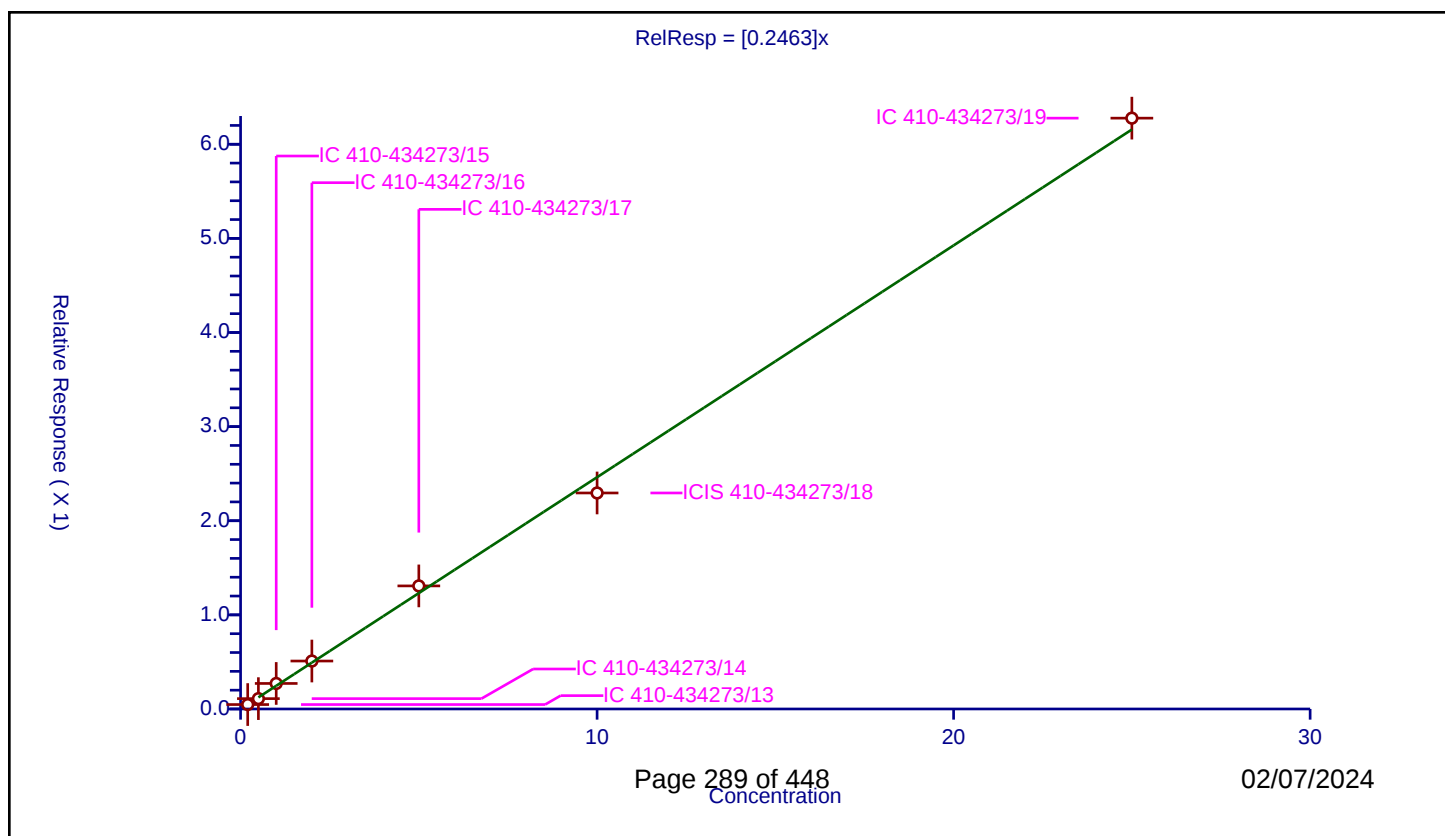
Curve Coefficients

Intercept: 0
 Slope: 0.2463

Error Coefficients

Standard Error: 525000
 Relative Standard Error: 7.5
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.047159	10.0	1676893.0	0.235793	Y
2	IC 410-434273/14	0.5	0.110005	10.0	1823738.0	0.22001	Y
3	IC 410-434273/15	1.0	0.271161	10.0	1679039.0	0.271161	Y
4	IC 410-434273/16	2.0	0.509447	10.0	1680409.0	0.254724	Y
5	IC 410-434273/17	5.0	1.307635	10.0	1736785.0	0.261527	Y
6	ICIS 410-434273/18	10.0	2.295002	10.0	1932713.0	0.2295	Y
7	IC 410-434273/19	25.0	6.277445	10.0	1880198.0	0.251098	Y



Calibration

/ Iodomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

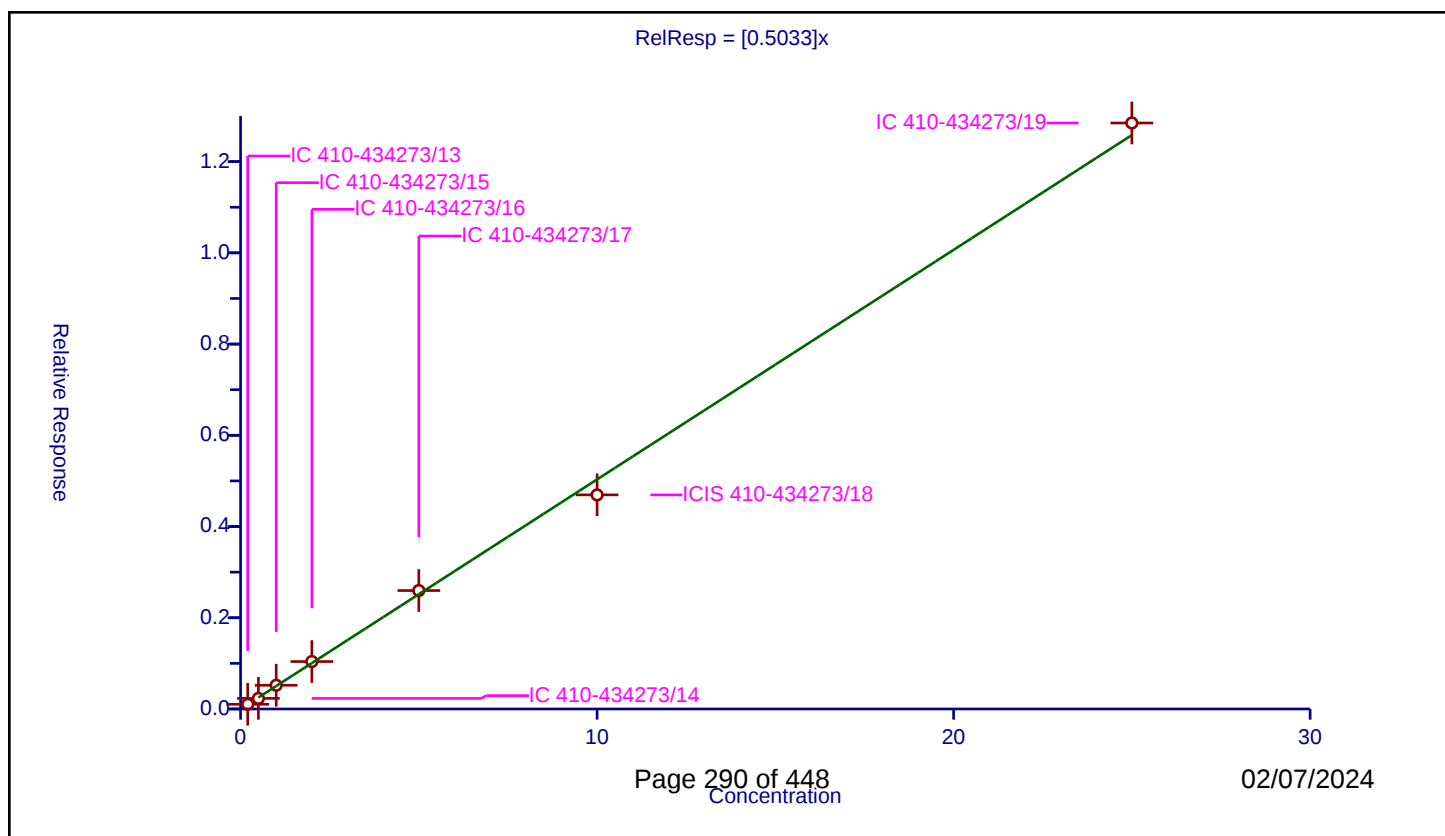
Curve Coefficients

Intercept: 0
Slope: 0.5033

Error Coefficients

Standard Error: 1070000
Relative Standard Error: 5.0
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.103143	10.0	1676893.0	0.515716	Y
2	IC 410-434273/14	0.5	0.23227	10.0	1823738.0	0.46454	Y
3	IC 410-434273/15	1.0	0.519946	10.0	1679039.0	0.519946	Y
4	IC 410-434273/16	2.0	1.040211	10.0	1680409.0	0.520106	Y
5	IC 410-434273/17	5.0	2.596775	10.0	1736785.0	0.519355	Y
6	ICIS 410-434273/18	10.0	4.694442	10.0	1932713.0	0.469444	Y
7	IC 410-434273/19	25.0	12.847078	10.0	1880198.0	0.513883	Y



Calibration

/ Ethyl bromide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

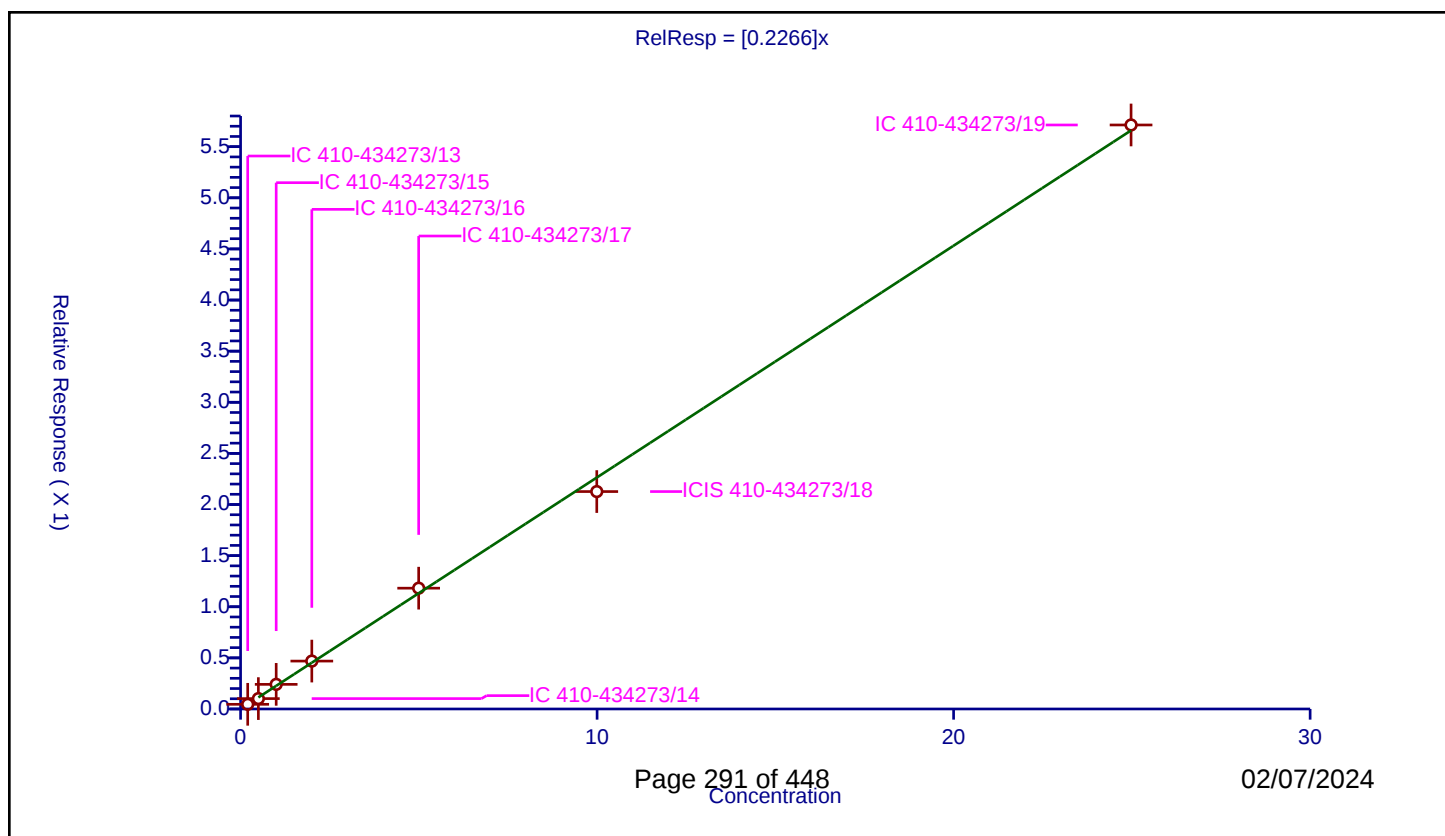
Curve Coefficients

Intercept: 0
Slope: 0.2266

Error Coefficients

Standard Error: 478000
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 410-434273/13	0.199819	0.045733	10.0	1676893.0	0.228874	Y
2	IC 410-434273/14	0.499548	0.101544	10.0	1823738.0	0.203272	Y
3	IC 410-434273/15	0.999096	0.241001	10.0	1679039.0	0.241219	Y
4	IC 410-434273/16	1.998192	0.468642	10.0	1680409.0	0.234533	Y
5	IC 410-434273/17	4.99548	1.181701	10.0	1736785.0	0.236554	Y
6	ICIS 410-434273/18	9.99096	2.126627	10.0	1932713.0	0.212855	Y
7	IC 410-434273/19	24.9774	5.712473	10.0	1880198.0	0.228706	Y



Calibration

/ Carbon disulfide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

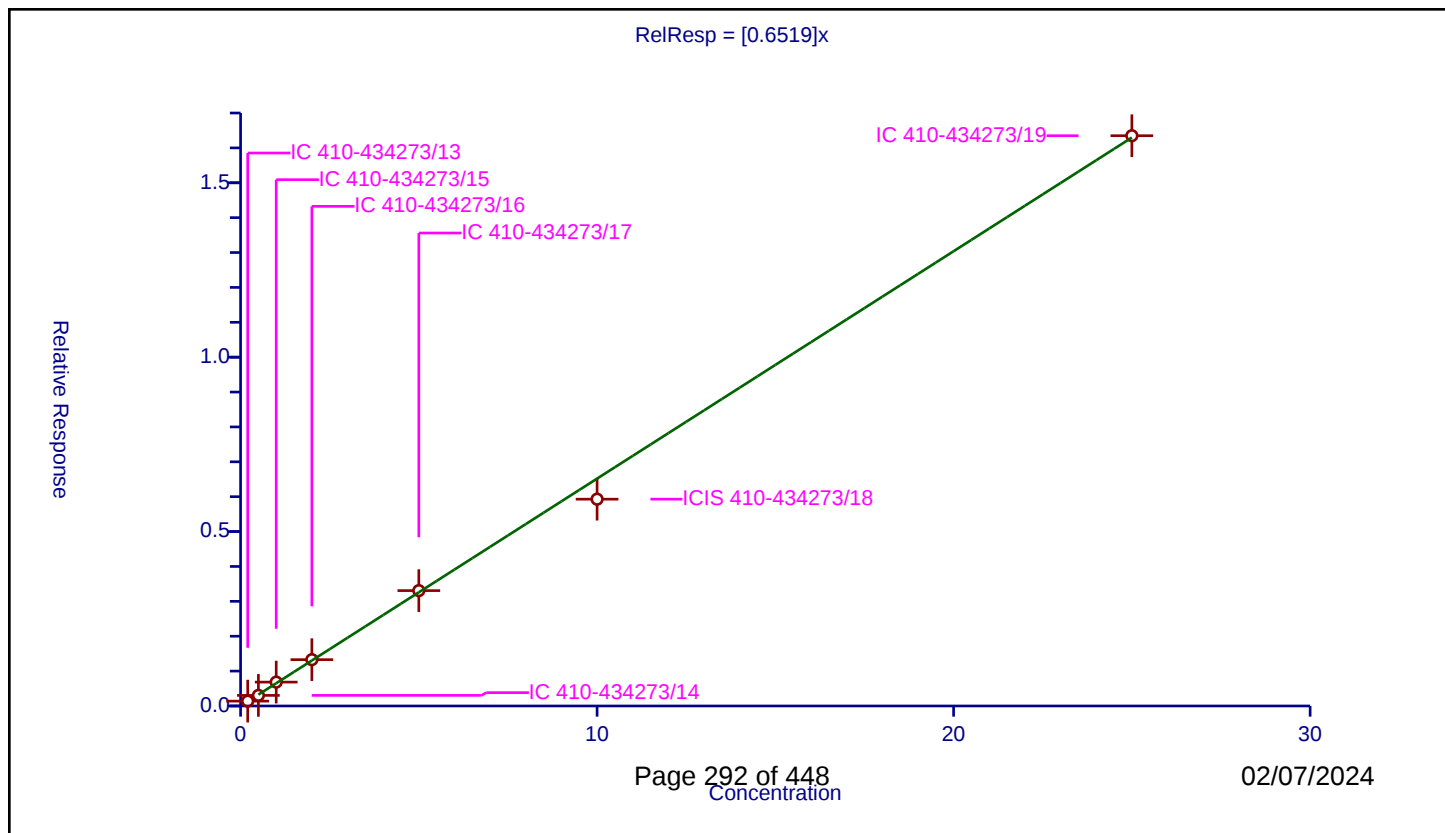
Curve Coefficients

Intercept: 0
 Slope: 0.6519

Error Coefficients

Standard Error: 1360000
 Relative Standard Error: 5.9
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.139568	10.0	1676893.0	0.697838	Y
2	IC 410-434273/14	0.5	0.30415	10.0	1823738.0	0.6083	Y
3	IC 410-434273/15	1.0	0.684517	10.0	1679039.0	0.684517	Y
4	IC 410-434273/16	2.0	1.328075	10.0	1680409.0	0.664038	Y
5	IC 410-434273/17	5.0	3.307577	10.0	1736785.0	0.661515	Y
6	ICIS 410-434273/18	10.0	5.929453	10.0	1932713.0	0.592945	Y
7	IC 410-434273/19	25.0	16.349204	10.0	1880198.0	0.653968	Y



Calibration

/ Methyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

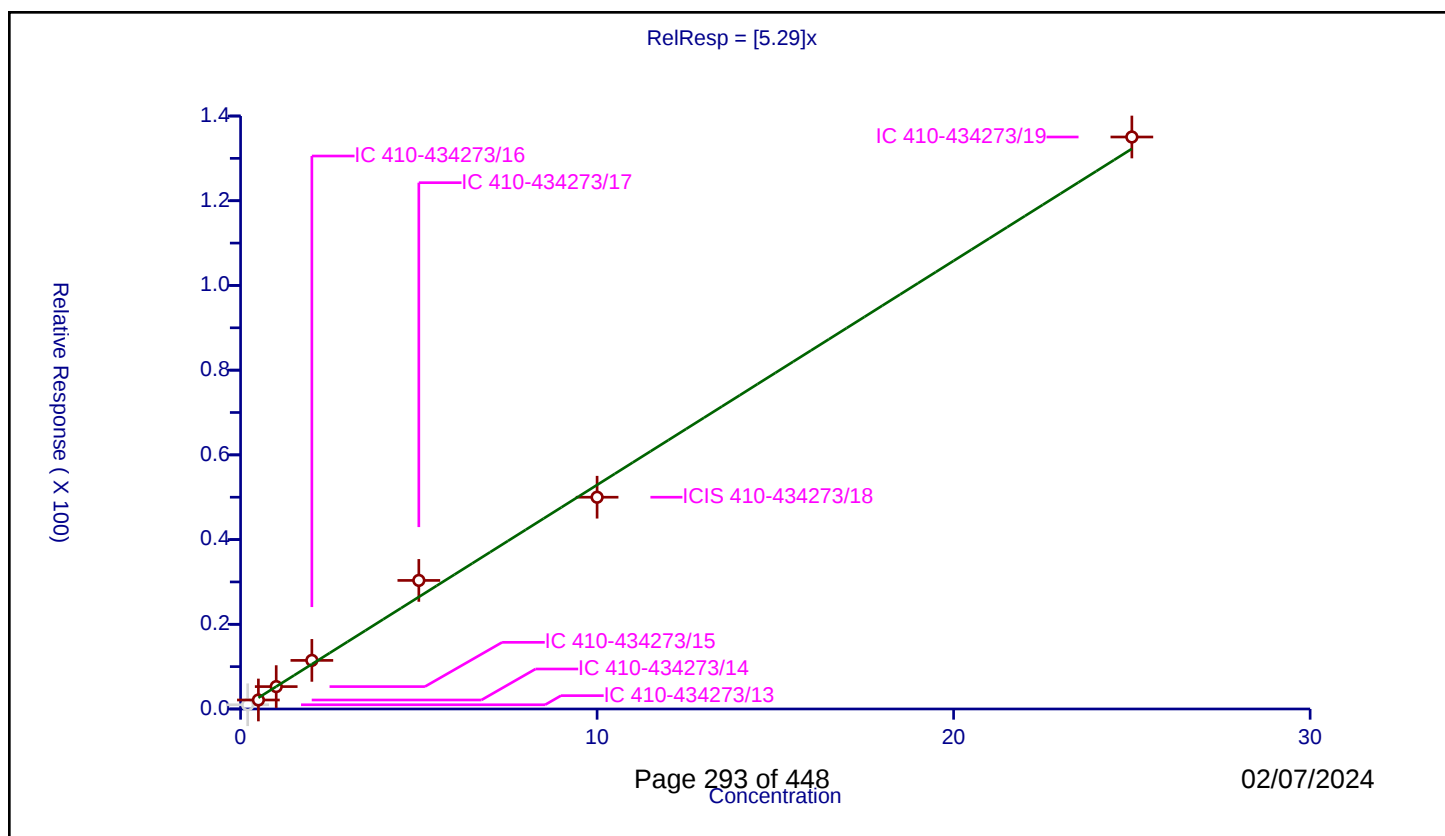
Curve Coefficients

Intercept: 0
Slope: 5.29

Error Coefficients

Standard Error: 239000
Relative Standard Error: 11.9
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.997893	50.0	135285.0	4.989467	N
2	IC 410-434273/14	0.5	2.123012	50.0	152001.0	4.246025	Y
3	IC 410-434273/15	1.0	5.285076	50.0	149118.0	5.285076	Y
4	IC 410-434273/16	2.0	11.476399	50.0	145821.0	5.7382	Y
5	IC 410-434273/17	5.0	30.357648	50.0	141312.0	6.07153	Y
6	ICIS 410-434273/18	10.0	49.996654	50.0	179329.0	4.999665	Y
7	IC 410-434273/19	25.0	135.045721	50.0	183175.0	5.401829	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

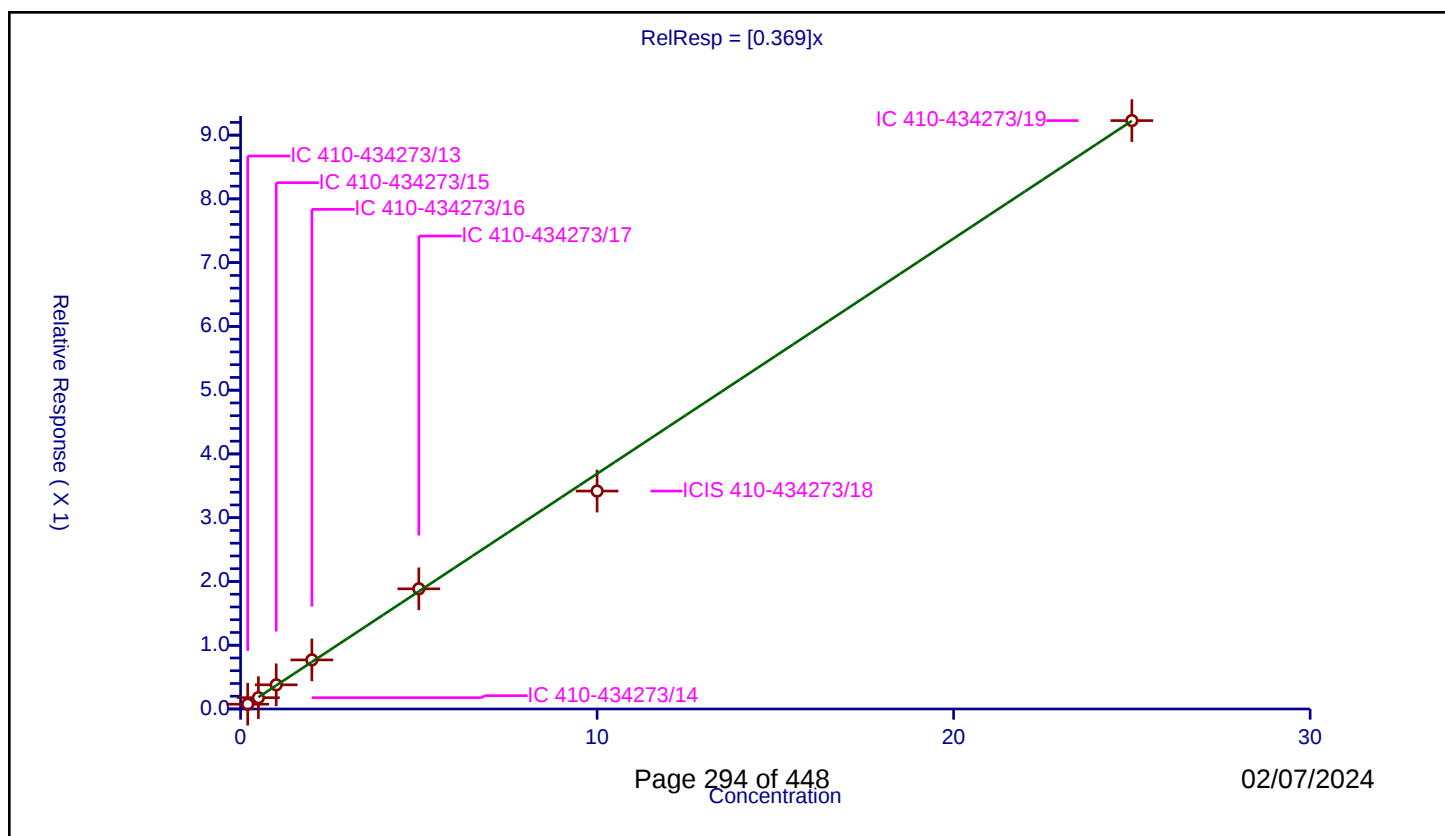
Curve Coefficients

Intercept: 0
Slope: 0.369

Error Coefficients

Standard Error: 772000
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 410-434273/13	0.2	0.075205	10.0	1676893.0	0.376023	Y
2	IC 410-434273/14	0.5	0.177498	10.0	1823738.0	0.354996	Y
3	IC 410-434273/15	1.0	0.378937	10.0	1679039.0	0.378937	Y
4	IC 410-434273/16	2.0	0.769658	10.0	1680409.0	0.384829	Y
5	IC 410-434273/17	5.0	1.884781	10.0	1736785.0	0.376956	Y
6	ICIS 410-434273/18	10.0	3.418169	10.0	1932713.0	0.341817	Y
7	IC 410-434273/19	25.0	9.227863	10.0	1880198.0	0.369115	Y



Calibration

/ Methylene Chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

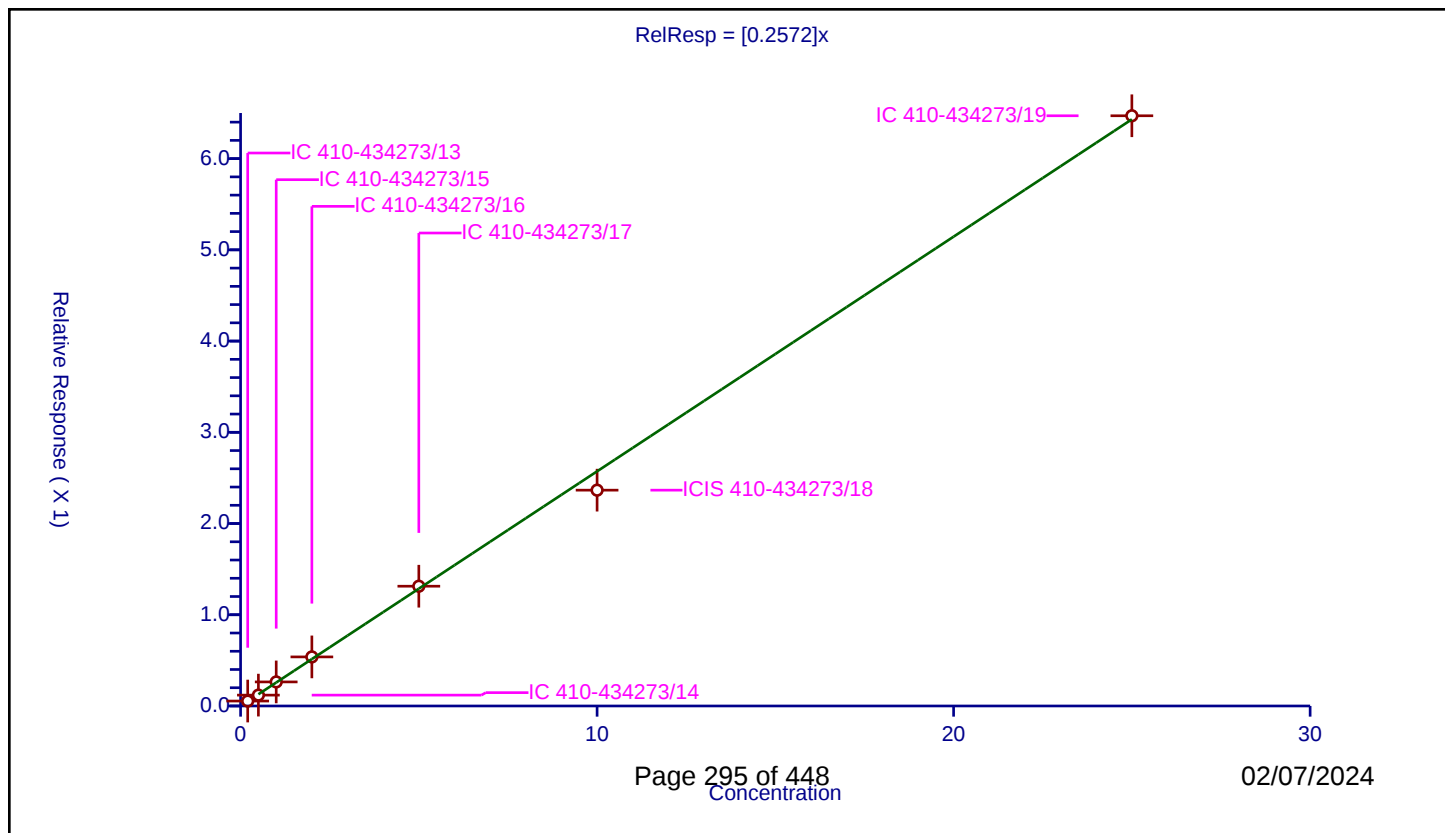
Curve Coefficients

Intercept: 0
 Slope: 0.2572

Error Coefficients

Standard Error: 540000
 Relative Standard Error: 5.5
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.054339	10.0	1676893.0	0.271693	Y
2	IC 410-434273/14	0.5	0.119102	10.0	1823738.0	0.238203	Y
3	IC 410-434273/15	1.0	0.263788	10.0	1679039.0	0.263788	Y
4	IC 410-434273/16	2.0	0.537857	10.0	1680409.0	0.268929	Y
5	IC 410-434273/17	5.0	1.313007	10.0	1736785.0	0.262601	Y
6	ICIS 410-434273/18	10.0	2.365969	10.0	1932713.0	0.236597	Y
7	IC 410-434273/19	25.0	6.469877	10.0	1880198.0	0.258795	Y



Calibration

/ 2-Methyl-2-propanol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

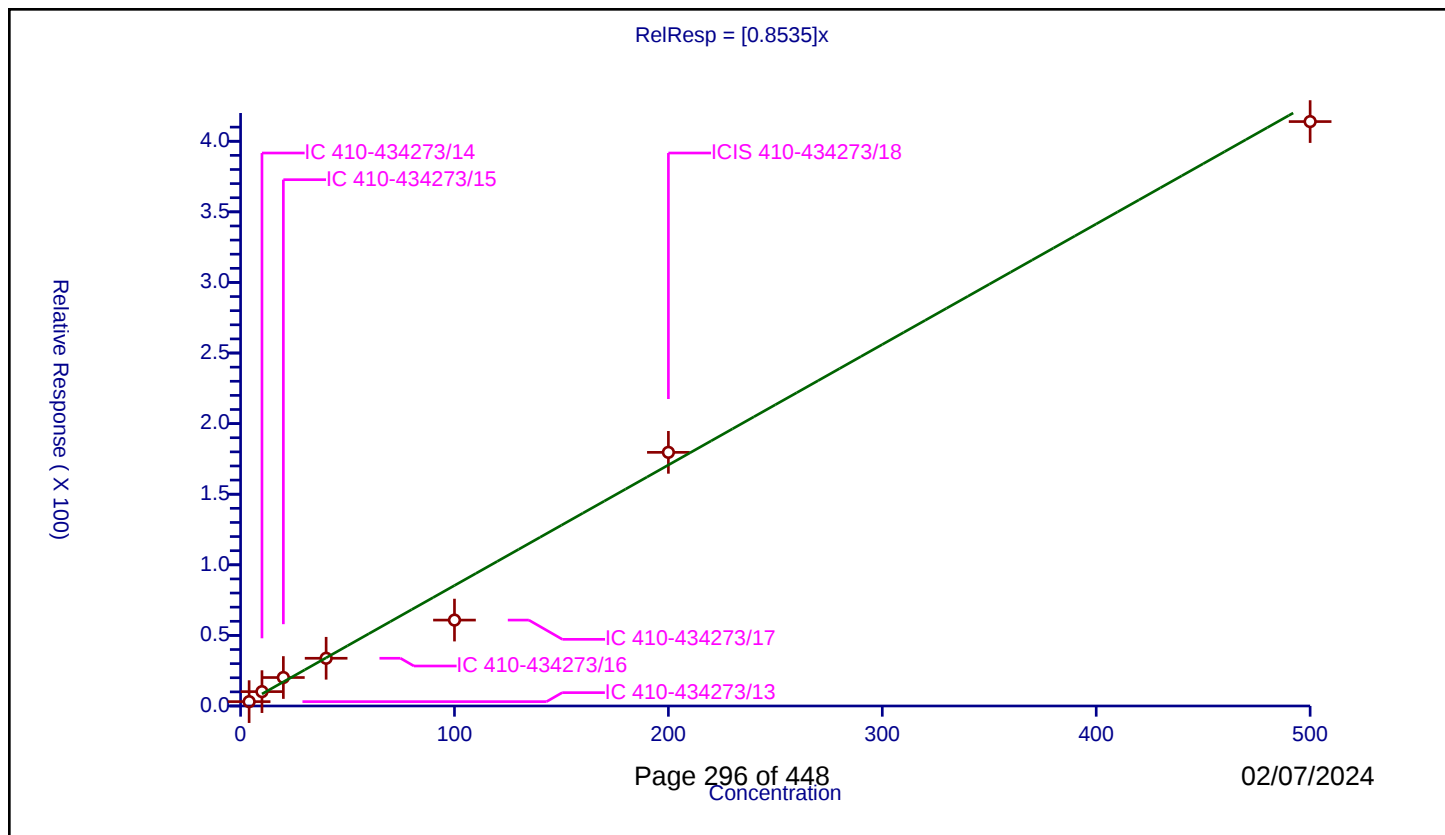
Curve Coefficients

Intercept: 0
 Slope: 0.8535

Error Coefficients

Standard Error: 678000
 Relative Standard Error: 16.6
 Correlation Coefficient: 0.991
 Coefficient of Determination (Adjusted): 0.964

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	4.0	3.079055	50.0	135285.0	0.769764	Y
2	IC 410-434273/14	10.0	10.169999	50.0	152001.0	1.017	Y
3	IC 410-434273/15	20.0	20.168927	50.0	149118.0	1.008446	Y
4	IC 410-434273/16	40.0	33.790743	50.0	145821.0	0.844769	Y
5	IC 410-434273/17	100.0	60.847982	50.0	141312.0	0.60848	Y
6	ICIS 410-434273/18	200.0	179.642445	50.0	179329.0	0.898212	Y
7	IC 410-434273/19	500.0	413.931759	50.0	183175.0	0.827864	Y



Calibration

/ Acrylonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

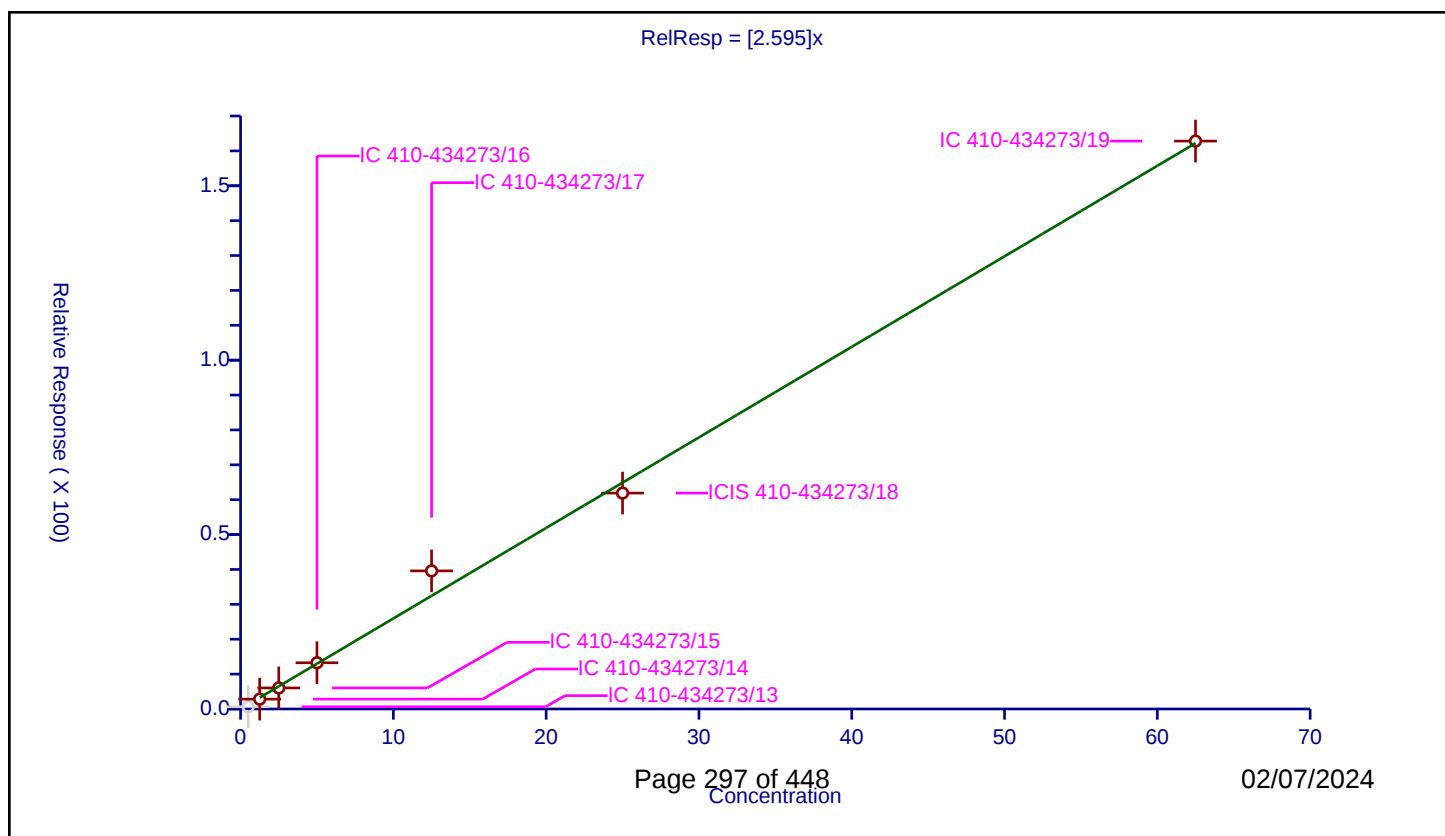
Curve Coefficients

Intercept: 0
 Slope: 2.595

Error Coefficients

Standard Error: 290000
 Relative Standard Error: 12.1
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.5	0.637173	50.0	135285.0	1.274347	N
2	IC 410-434273/14	1.25	2.823337	50.0	152001.0	2.258669	Y
3	IC 410-434273/15	2.5	6.03683	50.0	149118.0	2.414732	Y
4	IC 410-434273/16	5.0	13.255635	50.0	145821.0	2.651127	Y
5	IC 410-434273/17	12.5	39.588641	50.0	141312.0	3.167091	Y
6	ICIS 410-434273/18	25.0	61.896849	50.0	179329.0	2.475874	Y
7	IC 410-434273/19	62.5	162.816159	50.0	183175.0	2.605059	Y



Calibration

/ Methyl tert-butyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

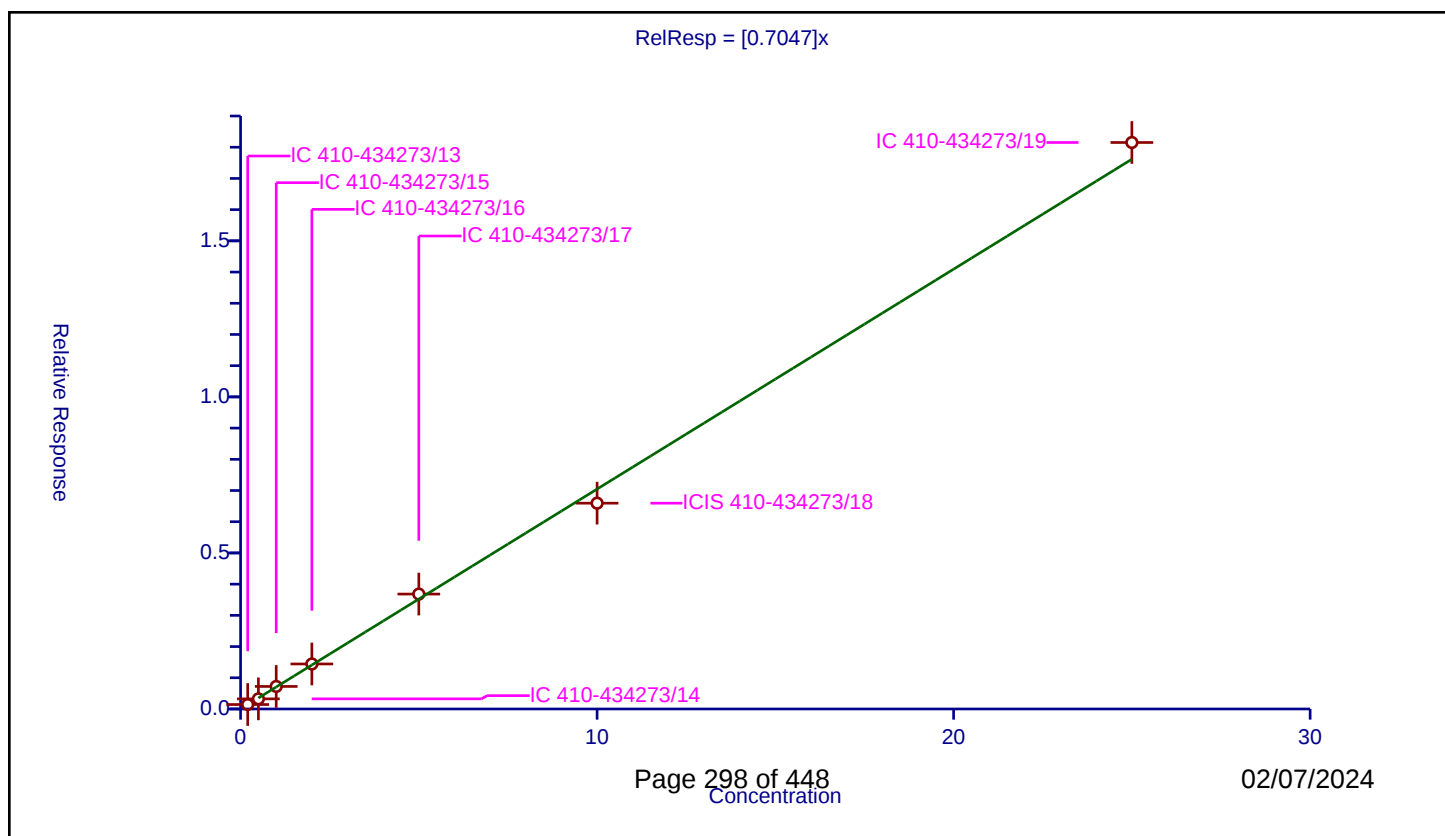
Curve Coefficients

Intercept: 0
Slope: 0.7047

Error Coefficients

Standard Error: 1510000
Relative Standard Error: 5.0
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.143474	10.0	1676893.0	0.717368	Y
2	IC 410-434273/14	0.5	0.324493	10.0	1823738.0	0.648986	Y
3	IC 410-434273/15	1.0	0.722693	10.0	1679039.0	0.722693	Y
4	IC 410-434273/16	2.0	1.443024	10.0	1680409.0	0.721512	Y
5	IC 410-434273/17	5.0	3.682356	10.0	1736785.0	0.736471	Y
6	ICIS 410-434273/18	10.0	6.594637	10.0	1932713.0	0.659464	Y
7	IC 410-434273/19	25.0	18.151657	10.0	1880198.0	0.726066	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

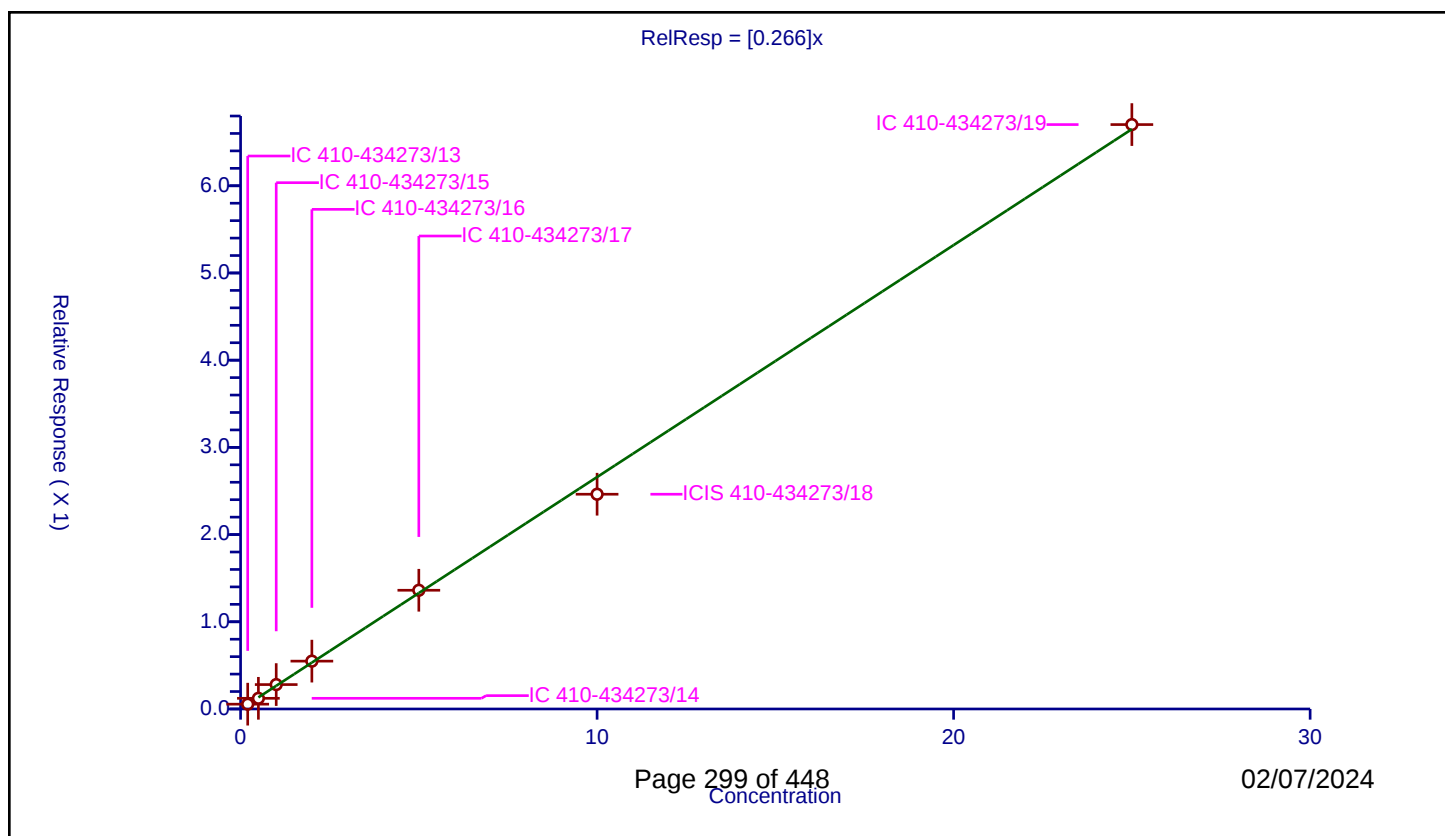
Curve Coefficients

Intercept: 0
Slope: 0.266

Error Coefficients

Standard Error: 560000
Relative Standard Error: 5.4
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.055197	10.0	1676893.0	0.275987	Y
2	IC 410-434273/14	0.5	0.12243	10.0	1823738.0	0.24486	Y
3	IC 410-434273/15	1.0	0.27997	10.0	1679039.0	0.27997	Y
4	IC 410-434273/16	2.0	0.548718	10.0	1680409.0	0.274359	Y
5	IC 410-434273/17	5.0	1.361481	10.0	1736785.0	0.272296	Y
6	ICIS 410-434273/18	10.0	2.462668	10.0	1932713.0	0.246267	Y
7	IC 410-434273/19	25.0	6.701826	10.0	1880198.0	0.268073	Y



Calibration

/ Hexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

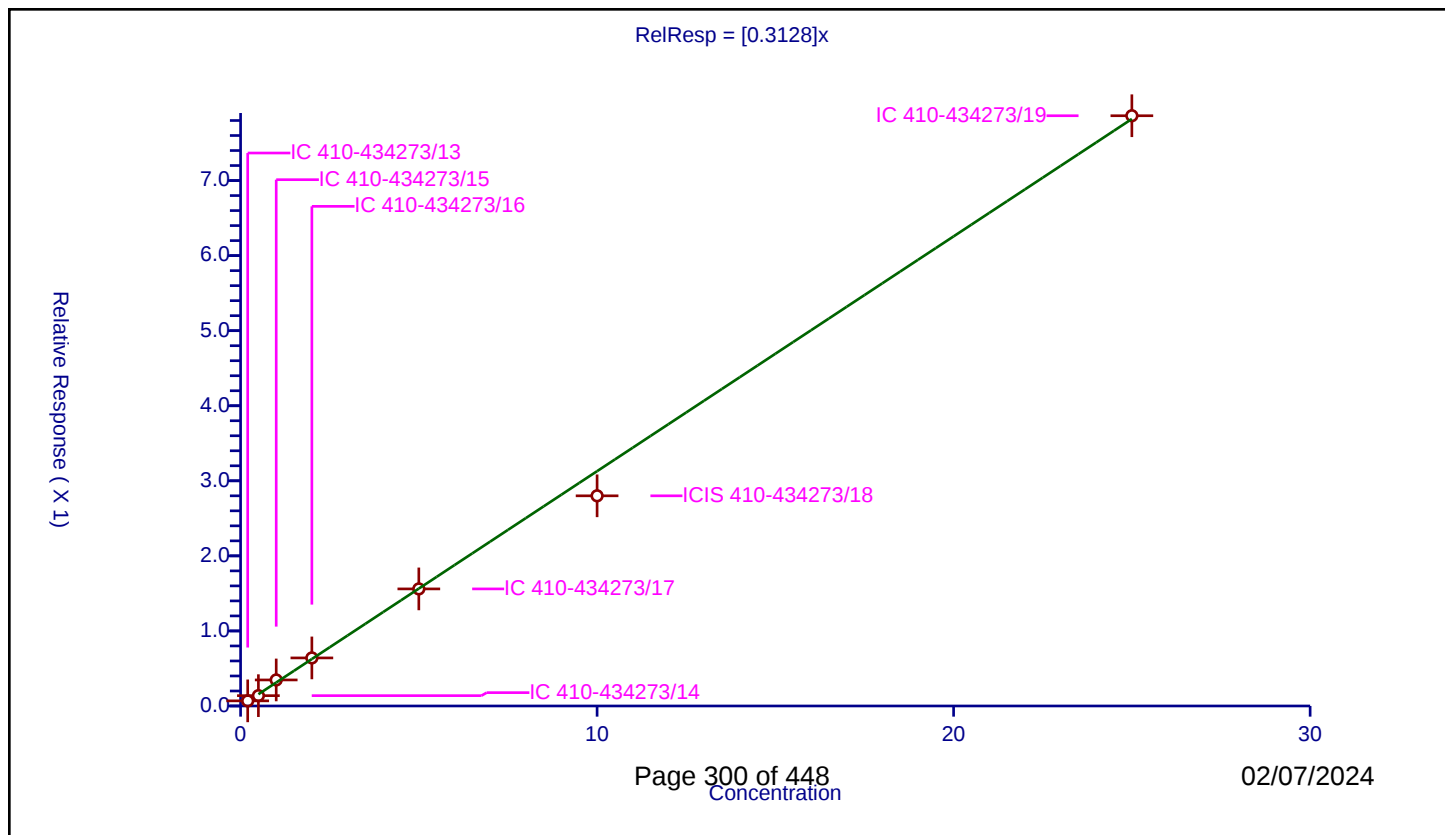
Curve Coefficients

Intercept: 0
Slope: 0.3128

Error Coefficients

Standard Error: 654000
Relative Standard Error: 8.8
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.068221	10.0	1676893.0	0.341107	Y
2	IC 410-434273/14	0.5	0.137624	10.0	1823738.0	0.275248	Y
3	IC 410-434273/15	1.0	0.346817	10.0	1679039.0	0.346817	Y
4	IC 410-434273/16	2.0	0.640285	10.0	1680409.0	0.320142	Y
5	IC 410-434273/17	5.0	1.559652	10.0	1736785.0	0.31193	Y
6	ICIS 410-434273/18	10.0	2.800224	10.0	1932713.0	0.280022	Y
7	IC 410-434273/19	25.0	7.863746	10.0	1880198.0	0.31455	Y



Calibration

/ 1,1-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

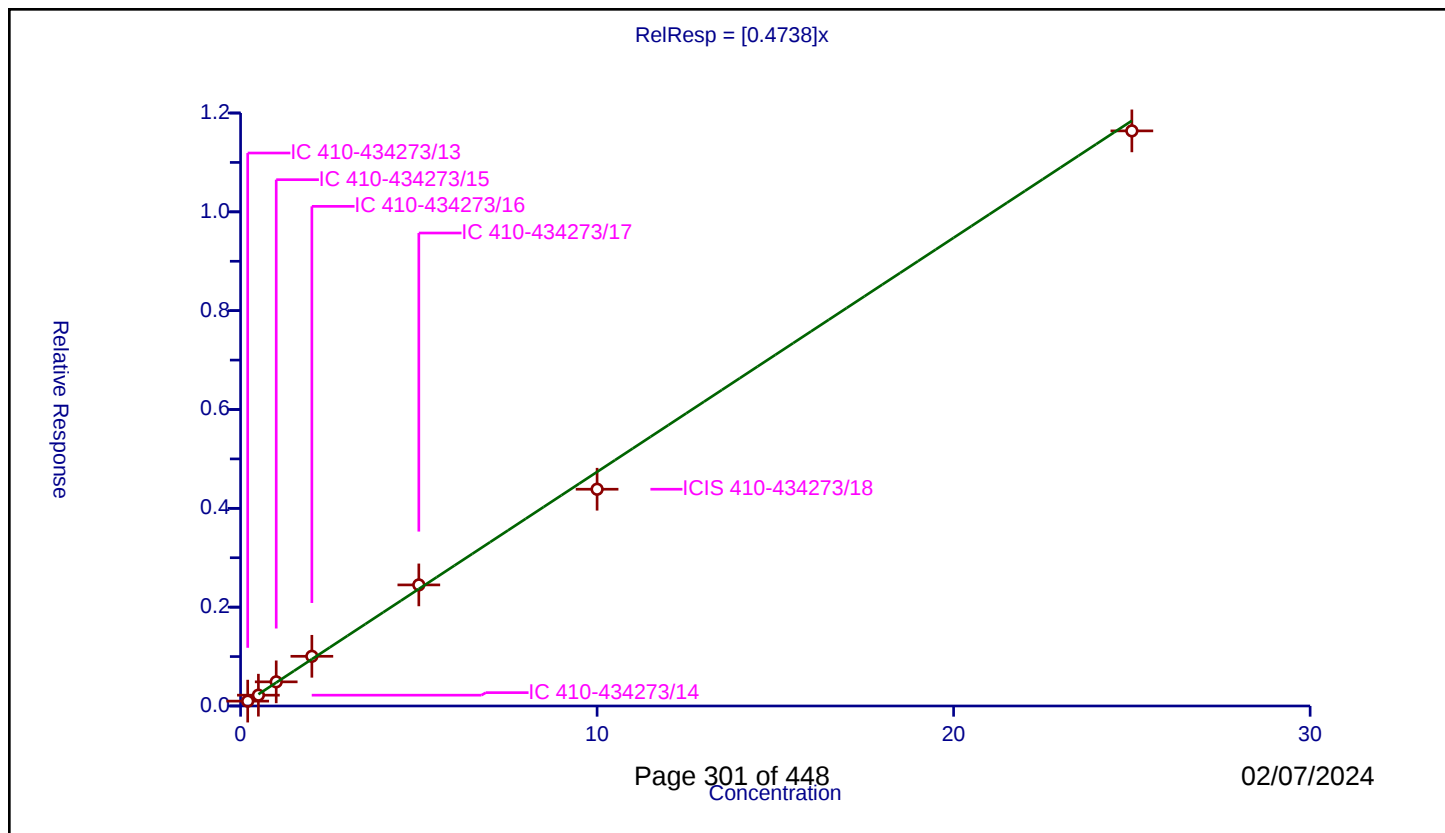
Curve Coefficients

Intercept: 0
 Slope: 0.4738

Error Coefficients

Standard Error: 977000
 Relative Standard Error: 5.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.098569	10.0	1676893.0	0.492846	Y
2	IC 410-434273/14	0.5	0.218929	10.0	1823738.0	0.437859	Y
3	IC 410-434273/15	1.0	0.488506	10.0	1679039.0	0.488506	Y
4	IC 410-434273/16	2.0	1.005696	10.0	1680409.0	0.502848	Y
5	IC 410-434273/17	5.0	2.450263	10.0	1736785.0	0.490053	Y
6	ICIS 410-434273/18	10.0	4.38642	10.0	1932713.0	0.438642	Y
7	IC 410-434273/19	25.0	11.638631	10.0	1880198.0	0.465545	Y



Calibration

/ Isopropyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

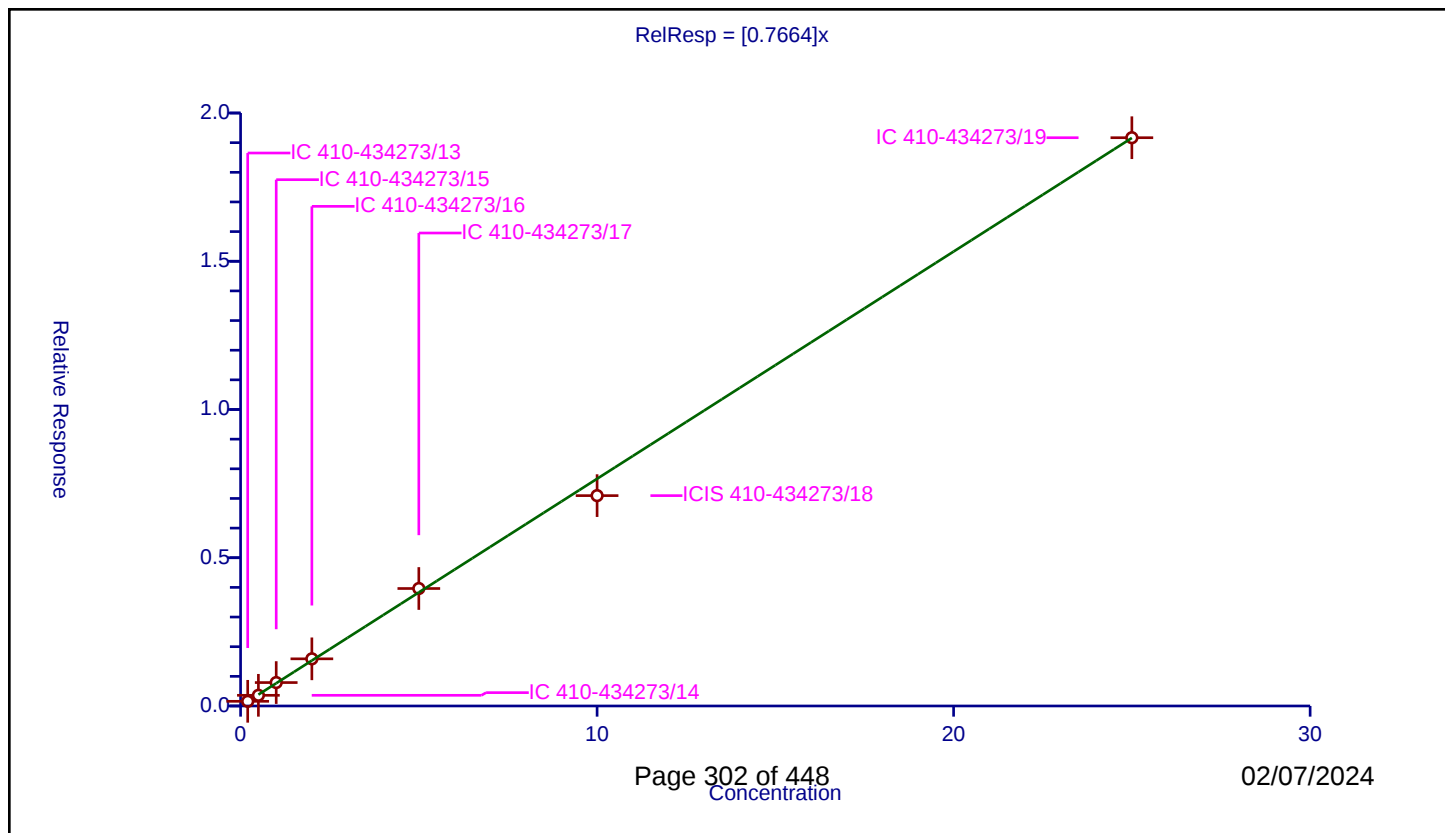
Curve Coefficients

Intercept: 0
 Slope: 0.7664

Error Coefficients

Standard Error: 1600000
 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 410-434273/13	0.2	0.157935	10.0	1676893.0	0.789675	Y
2	IC 410-434273/14	0.5	0.360216	10.0	1823738.0	0.720432	Y
3	IC 410-434273/15	1.0	0.79053	10.0	1679039.0	0.79053	Y
4	IC 410-434273/16	2.0	1.590577	10.0	1680409.0	0.795289	Y
5	IC 410-434273/17	5.0	3.962385	10.0	1736785.0	0.792477	Y
6	ICIS 410-434273/18	10.0	7.095151	10.0	1932713.0	0.709515	Y
7	IC 410-434273/19	25.0	19.16738	10.0	1880198.0	0.766695	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

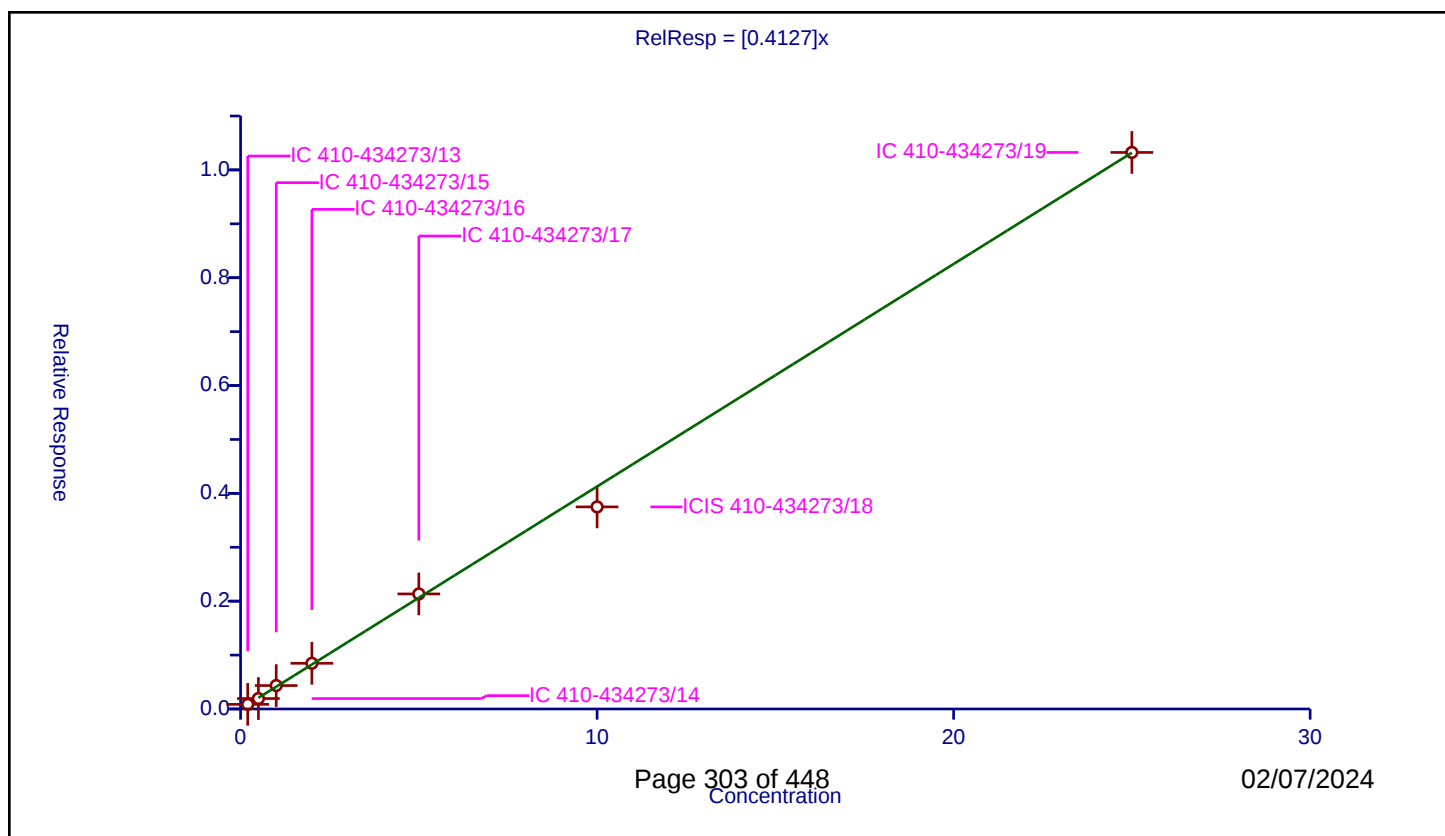
Curve Coefficients

Intercept: 0
Slope: 0.4127

Error Coefficients

Standard Error: 862000
Relative Standard Error: 5.5
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.085641	10.0	1676893.0	0.428203	Y
2	IC 410-434273/14	0.5	0.193855	10.0	1823738.0	0.387709	Y
3	IC 410-434273/15	1.0	0.43482	10.0	1679039.0	0.43482	Y
4	IC 410-434273/16	2.0	0.847478	10.0	1680409.0	0.423739	Y
5	IC 410-434273/17	5.0	2.134484	10.0	1736785.0	0.426897	Y
6	ICIS 410-434273/18	10.0	3.748943	10.0	1932713.0	0.374894	Y
7	IC 410-434273/19	25.0	10.324173	10.0	1880198.0	0.412967	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

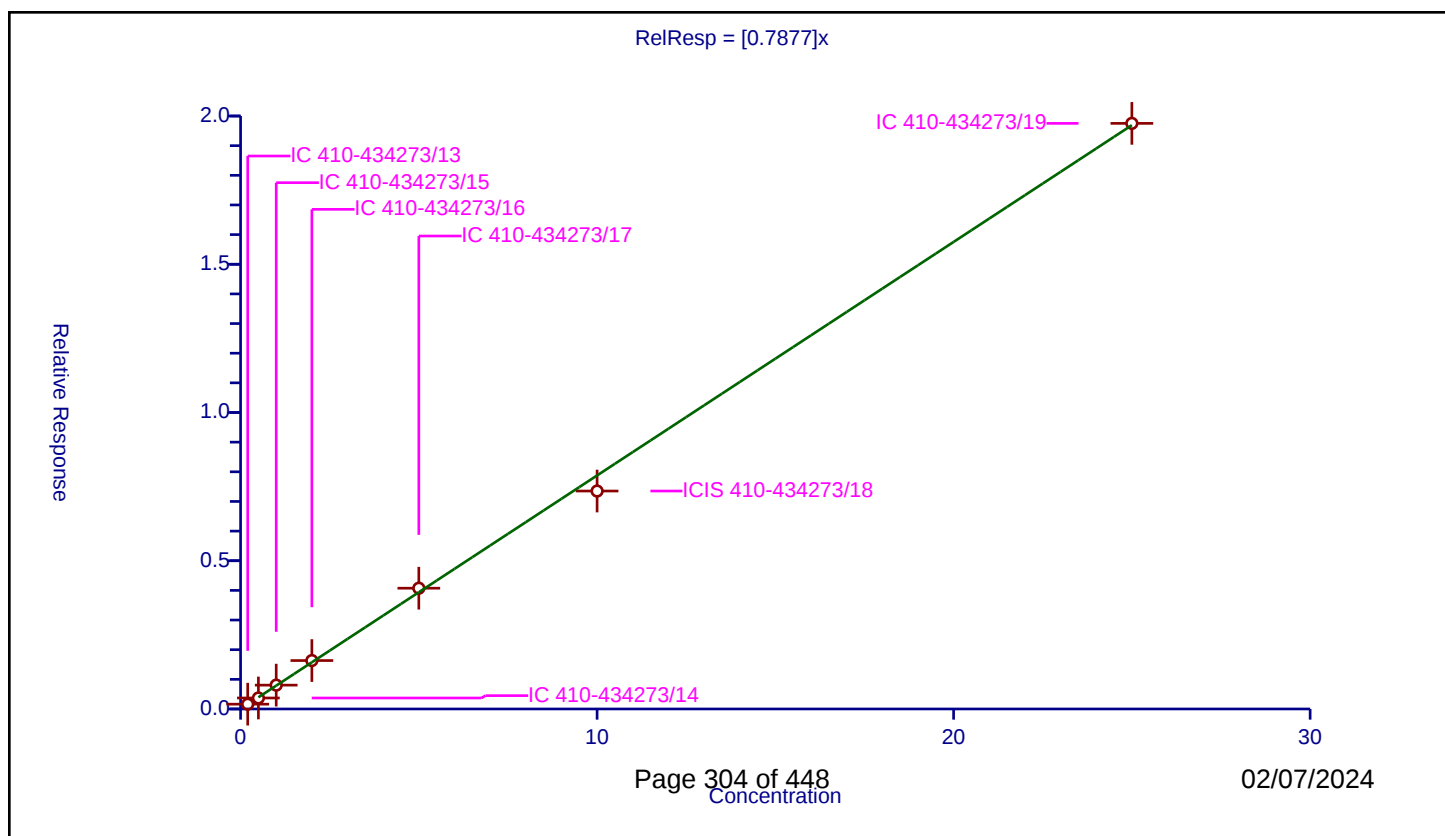
Curve Coefficients

Intercept: 0
Slope: 0.7877

Error Coefficients

Standard Error: 1650000
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 410-434273/13	0.2	0.161972	10.0	1676893.0	0.809861	Y
2	IC 410-434273/14	0.5	0.371133	10.0	1823738.0	0.742267	Y
3	IC 410-434273/15	1.0	0.804722	10.0	1679039.0	0.804722	Y
4	IC 410-434273/16	2.0	1.633358	10.0	1680409.0	0.816679	Y
5	IC 410-434273/17	5.0	4.074304	10.0	1736785.0	0.814861	Y
6	ICIS 410-434273/18	10.0	7.351195	10.0	1932713.0	0.735119	Y
7	IC 410-434273/19	25.0	19.752148	10.0	1880198.0	0.790086	Y



Calibration

/ 2-Butanone (MEK)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

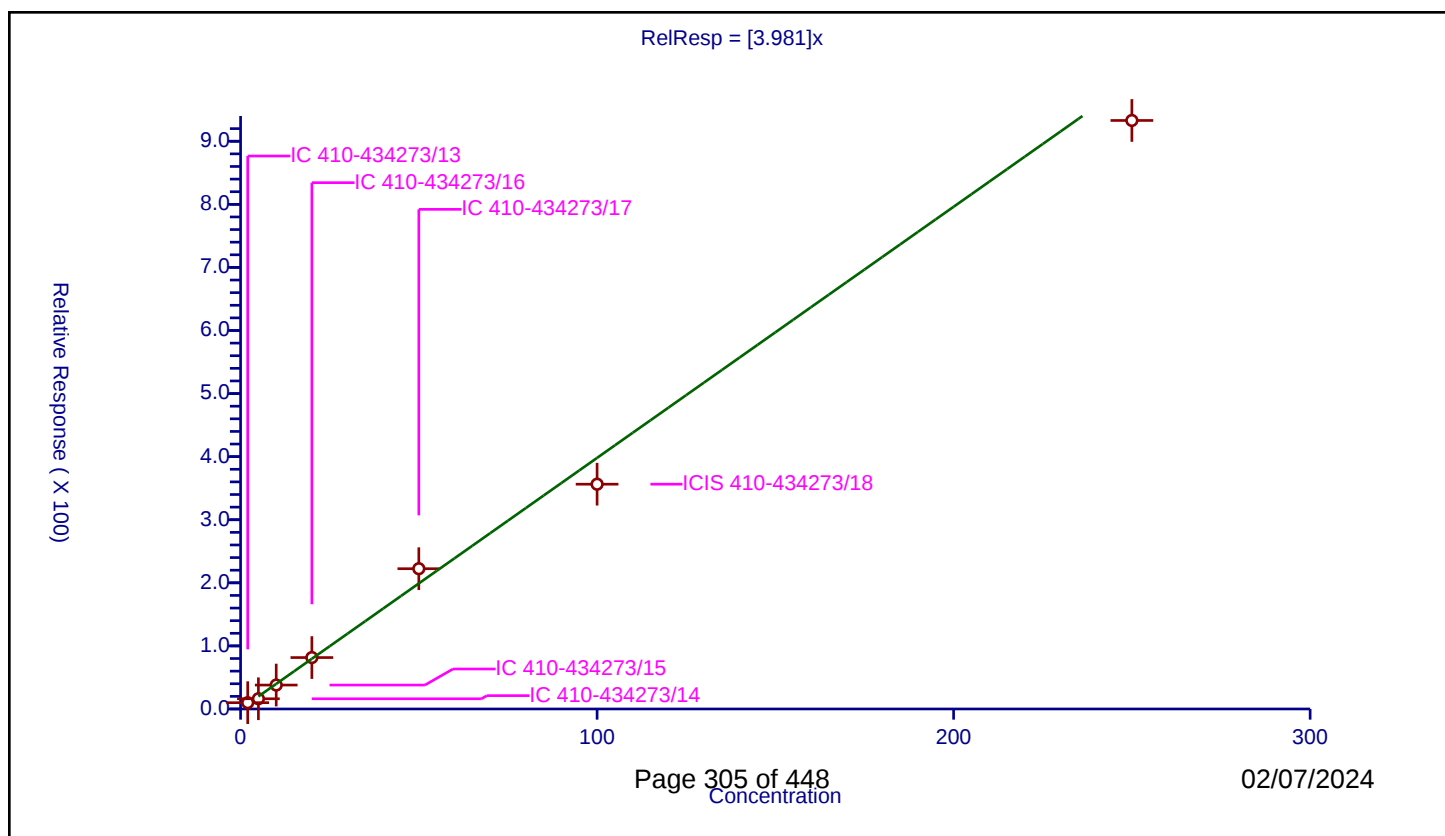
Curve Coefficients

Intercept: 0
 Slope: 3.981

Error Coefficients

Standard Error: 1520000
 Relative Standard Error: 14.8
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.967

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	2.0	10.016262	50.0	135285.0	5.008131	Y
2	IC 410-434273/14	5.0	16.230156	50.0	152001.0	3.246031	Y
3	IC 410-434273/15	10.0	37.918964	50.0	149118.0	3.791896	Y
4	IC 410-434273/16	20.0	81.504722	50.0	145821.0	4.075236	Y
5	IC 410-434273/17	50.0	222.379911	50.0	141312.0	4.447598	Y
6	ICIS 410-434273/18	100.0	356.358425	50.0	179329.0	3.563584	Y
7	IC 410-434273/19	250.0	932.956462	50.0	183175.0	3.731826	Y



Calibration

/ cis-1,2-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

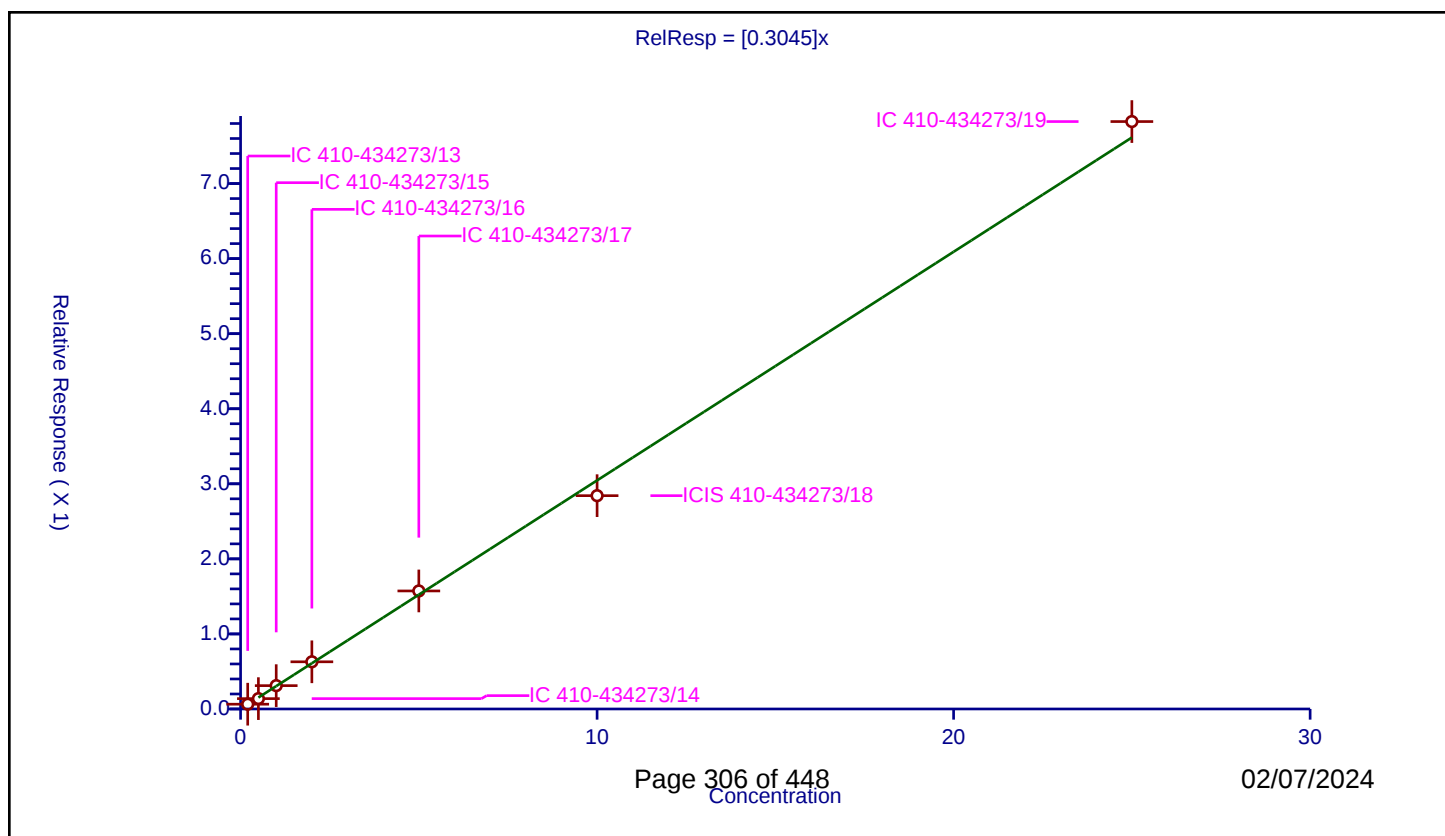
Curve Coefficients

Intercept: 0
Slope: 0.3045

Error Coefficients

Standard Error: 653000
Relative Standard Error: 5.6
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.063707	10.0	1676893.0	0.318536	Y
2	IC 410-434273/14	0.5	0.138117	10.0	1823738.0	0.276235	Y
3	IC 410-434273/15	1.0	0.311035	10.0	1679039.0	0.311035	Y
4	IC 410-434273/16	2.0	0.628502	10.0	1680409.0	0.314251	Y
5	IC 410-434273/17	5.0	1.572624	10.0	1736785.0	0.314525	Y
6	ICIS 410-434273/18	10.0	2.84185	10.0	1932713.0	0.284185	Y
7	IC 410-434273/19	25.0	7.826144	10.0	1880198.0	0.313046	Y



Calibration

/ 2,2-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

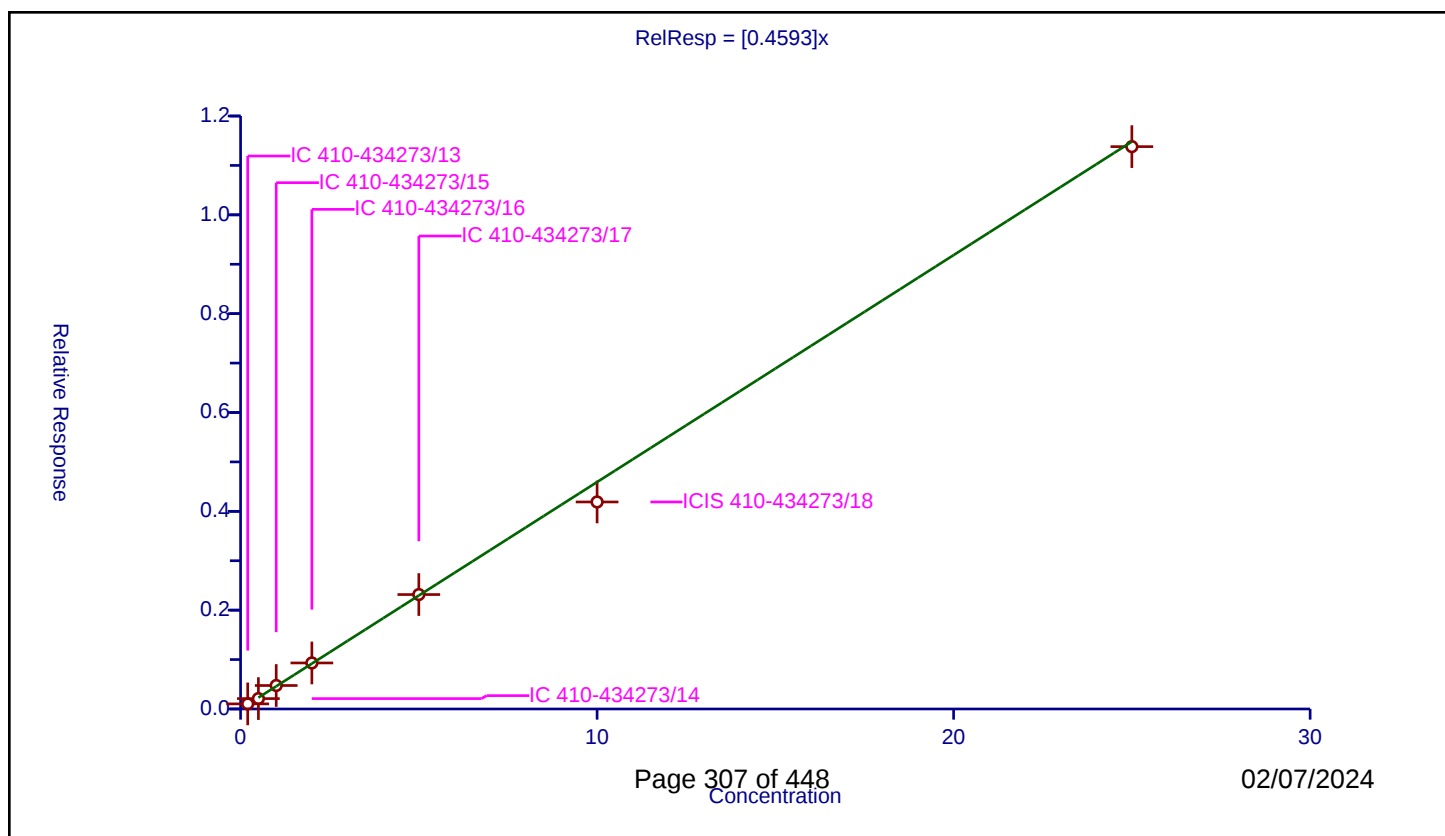
Curve Coefficients

Intercept: 0
Slope: 0.4593

Error Coefficients

Standard Error: 951000
Relative Standard Error: 7.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.103143	10.0	1676893.0	0.515716	Y
2	IC 410-434273/14	0.5	0.210425	10.0	1823738.0	0.42085	Y
3	IC 410-434273/15	1.0	0.474956	10.0	1679039.0	0.474956	Y
4	IC 410-434273/16	2.0	0.931726	10.0	1680409.0	0.465863	Y
5	IC 410-434273/17	5.0	2.31613	10.0	1736785.0	0.463226	Y
6	ICIS 410-434273/18	10.0	4.189794	10.0	1932713.0	0.418979	Y
7	IC 410-434273/19	25.0	11.380551	10.0	1880198.0	0.455222	Y



Calibration

/ Propionitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

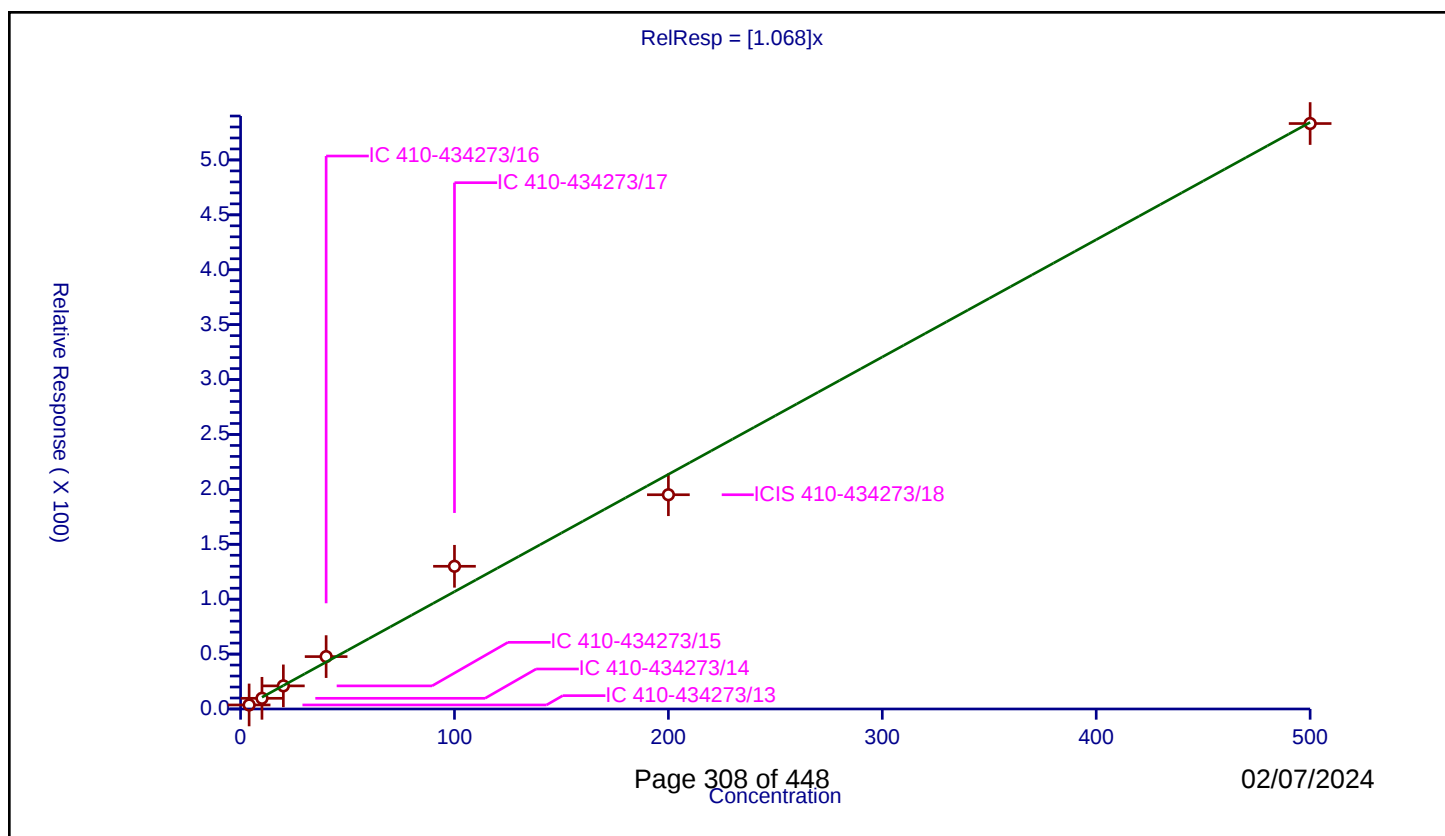
Curve Coefficients

Intercept: 0
Slope: 1.068

Error Coefficients

Standard Error: 862000
Relative Standard Error: 12.6
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	4.0	3.678161	50.0	135285.0	0.91954	Y
2	IC 410-434273/14	10.0	9.729212	50.0	152001.0	0.972921	Y
3	IC 410-434273/15	20.0	21.049437	50.0	149118.0	1.052472	Y
4	IC 410-434273/16	40.0	47.709863	50.0	145821.0	1.192747	Y
5	IC 410-434273/17	100.0	129.955701	50.0	141312.0	1.299557	Y
6	ICIS 410-434273/18	200.0	195.103413	50.0	179329.0	0.975517	Y
7	IC 410-434273/19	500.0	533.153542	50.0	183175.0	1.066307	Y



Calibration

/ Methacrylonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

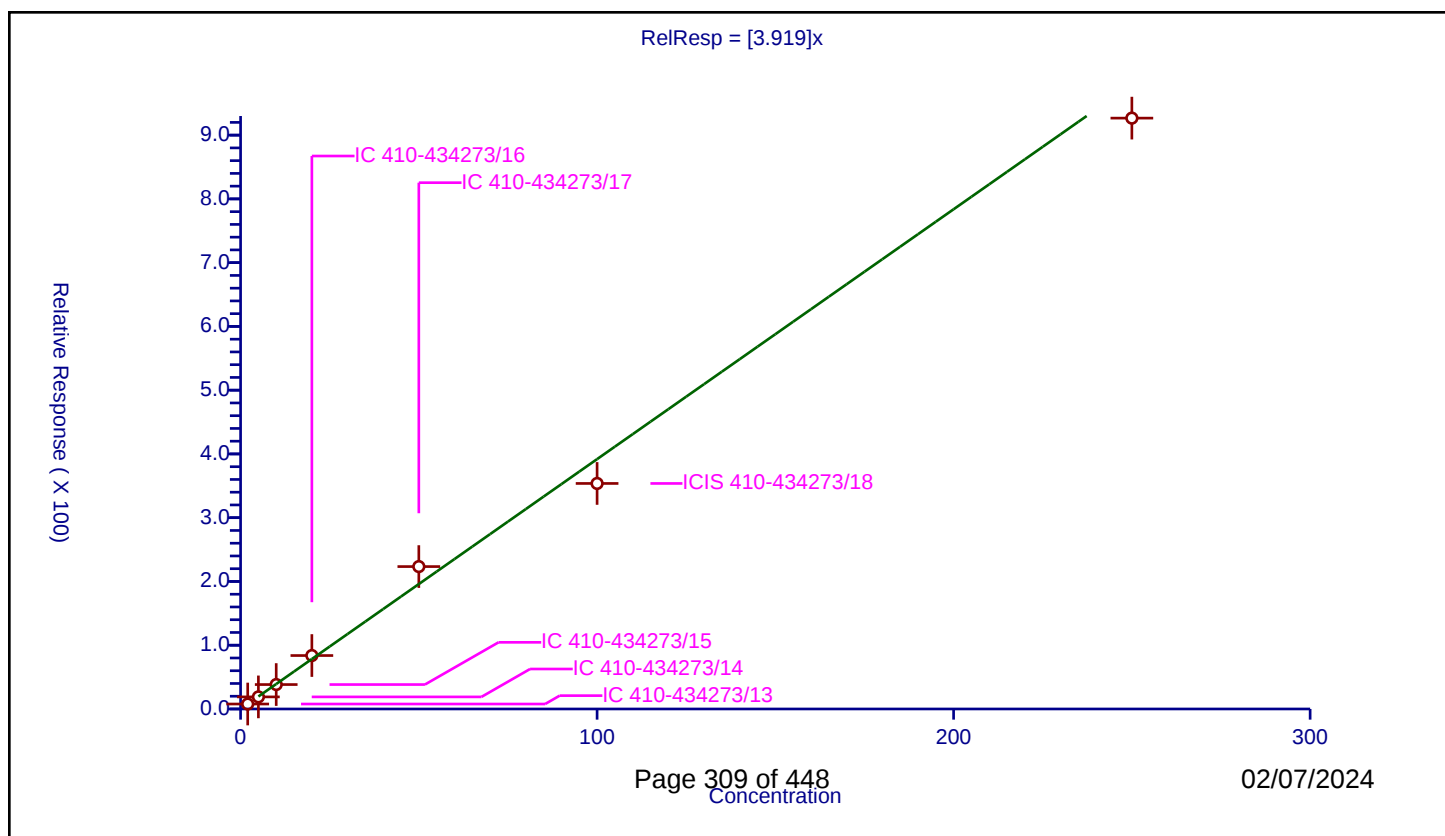
Curve Coefficients

Intercept: 0
 Slope: 3.919

Error Coefficients

Standard Error: 1510000
 Relative Standard Error: 8.0
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	2.0	7.798352	50.0	135285.0	3.899176	Y
2	IC 410-434273/14	5.0	18.986717	50.0	152001.0	3.797343	Y
3	IC 410-434273/15	10.0	38.329712	50.0	149118.0	3.832971	Y
4	IC 410-434273/16	20.0	83.820575	50.0	145821.0	4.191029	Y
5	IC 410-434273/17	50.0	223.347628	50.0	141312.0	4.466953	Y
6	ICIS 410-434273/18	100.0	353.699904	50.0	179329.0	3.536999	Y
7	IC 410-434273/19	250.0	926.709977	50.0	183175.0	3.70684	Y



Calibration

/ Chlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

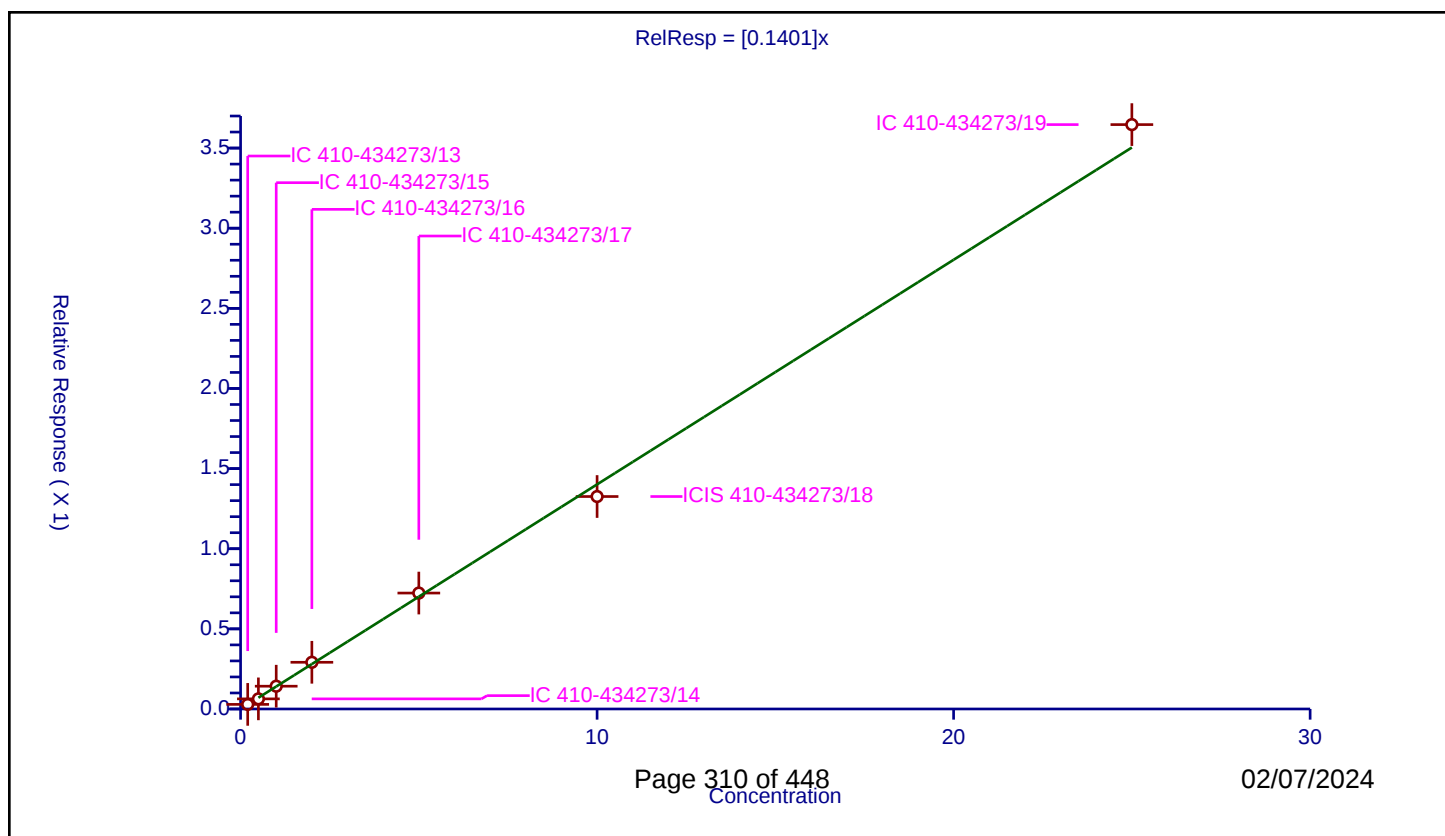
Curve Coefficients

Intercept: 0
Slope: 0.1401

Error Coefficients

Standard Error: 304000
Relative Standard Error: 5.4
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.02872	10.0	1676893.0	0.143599	Y
2	IC 410-434273/14	0.5	0.063151	10.0	1823738.0	0.126301	Y
3	IC 410-434273/15	1.0	0.142242	10.0	1679039.0	0.142242	Y
4	IC 410-434273/16	2.0	0.291441	10.0	1680409.0	0.14572	Y
5	IC 410-434273/17	5.0	0.723388	10.0	1736785.0	0.144678	Y
6	ICIS 410-434273/18	10.0	1.32567	10.0	1932713.0	0.132567	Y
7	IC 410-434273/19	25.0	3.646355	10.0	1880198.0	0.145854	Y



Calibration

/ Tetrahydrofuran

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

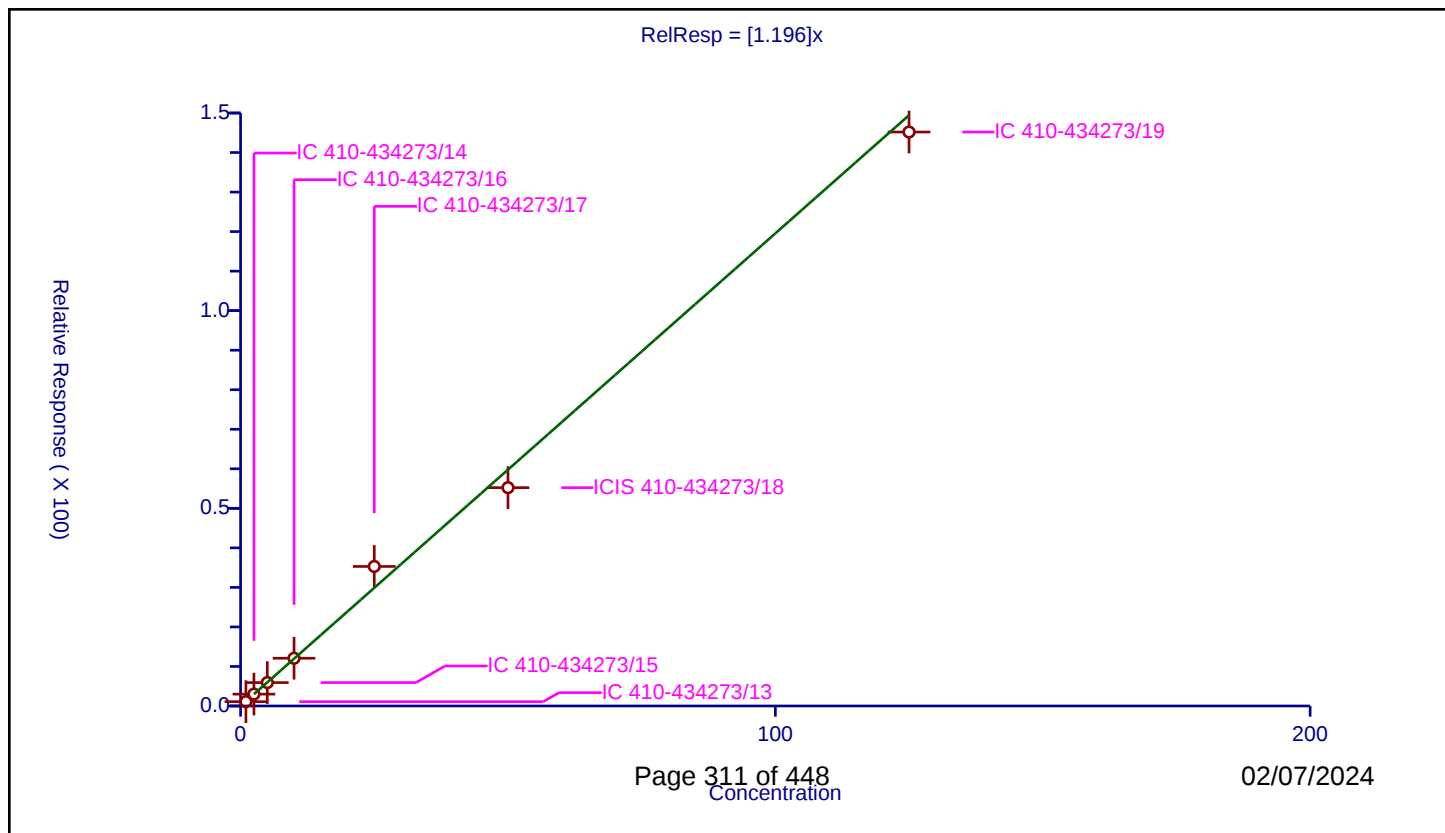
Curve Coefficients

Intercept: 0
Slope: 1.196

Error Coefficients

Standard Error: 236000
Relative Standard Error: 8.8
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	1.0	1.099161	50.0	135285.0	1.099161	Y
2	IC 410-434273/14	2.5	2.999322	50.0	152001.0	1.199729	Y
3	IC 410-434273/15	5.0	5.92182	50.0	149118.0	1.184364	Y
4	IC 410-434273/16	10.0	12.076107	50.0	145821.0	1.207611	Y
5	IC 410-434273/17	25.0	35.293535	50.0	141312.0	1.411741	Y
6	ICIS 410-434273/18	50.0	55.230888	50.0	179329.0	1.104618	Y
7	IC 410-434273/19	125.0	145.191484	50.0	183175.0	1.161532	Y



Calibration

/ Chloroform

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

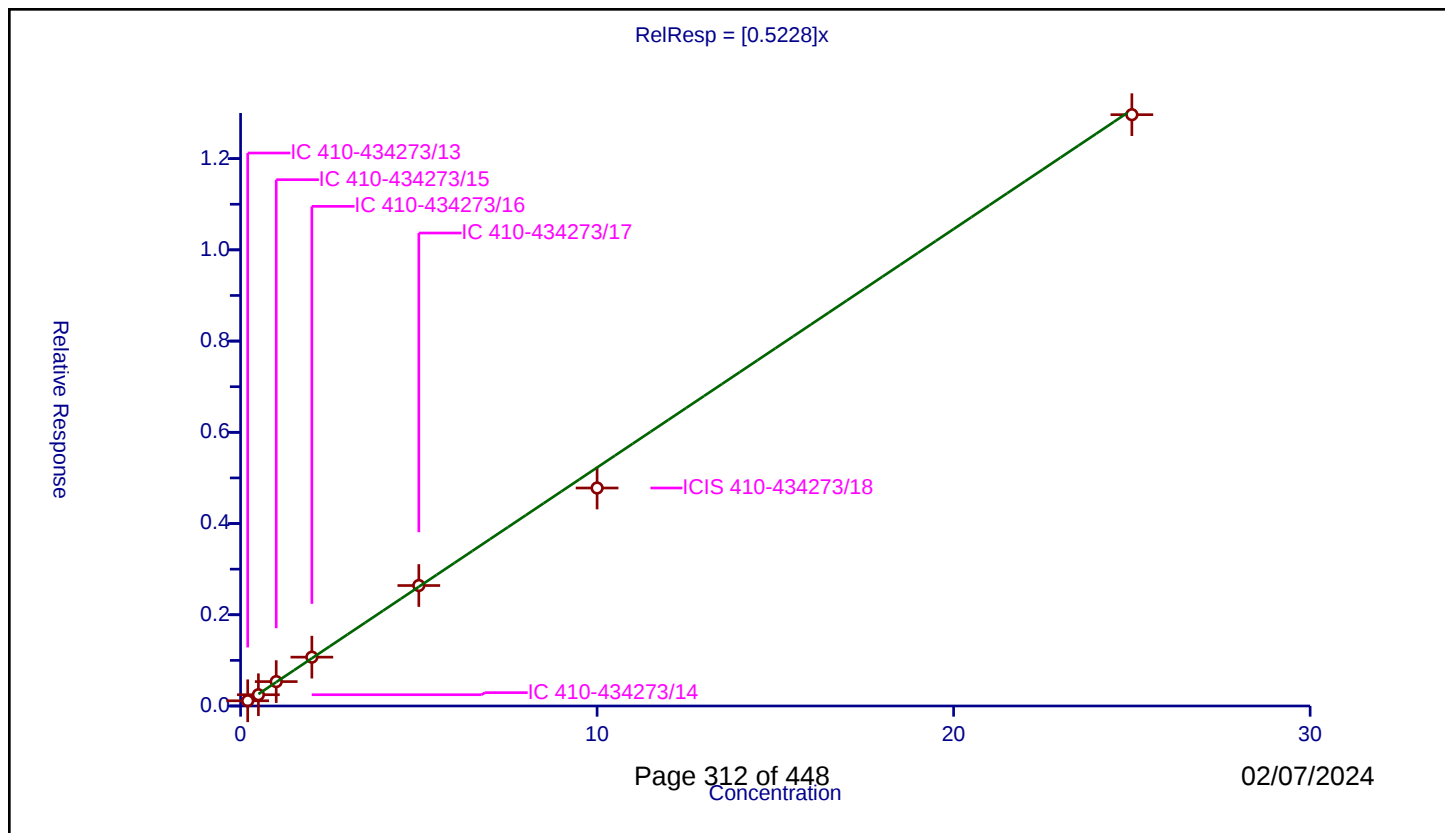
Curve Coefficients

Intercept: 0
 Slope: 0.5228

Error Coefficients

Standard Error: 1080000
 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 410-434273/13	0.2	0.11414	10.0	1676893.0	0.570698	Y
2	IC 410-434273/14	0.5	0.247163	10.0	1823738.0	0.494325	Y
3	IC 410-434273/15	1.0	0.534395	10.0	1679039.0	0.534395	Y
4	IC 410-434273/16	2.0	1.070555	10.0	1680409.0	0.535277	Y
5	IC 410-434273/17	5.0	2.641225	10.0	1736785.0	0.528245	Y
6	ICIS 410-434273/18	10.0	4.779251	10.0	1932713.0	0.477925	Y
7	IC 410-434273/19	25.0	12.963991	10.0	1880198.0	0.51856	Y



Calibration

/ Dibromofluoromethane (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

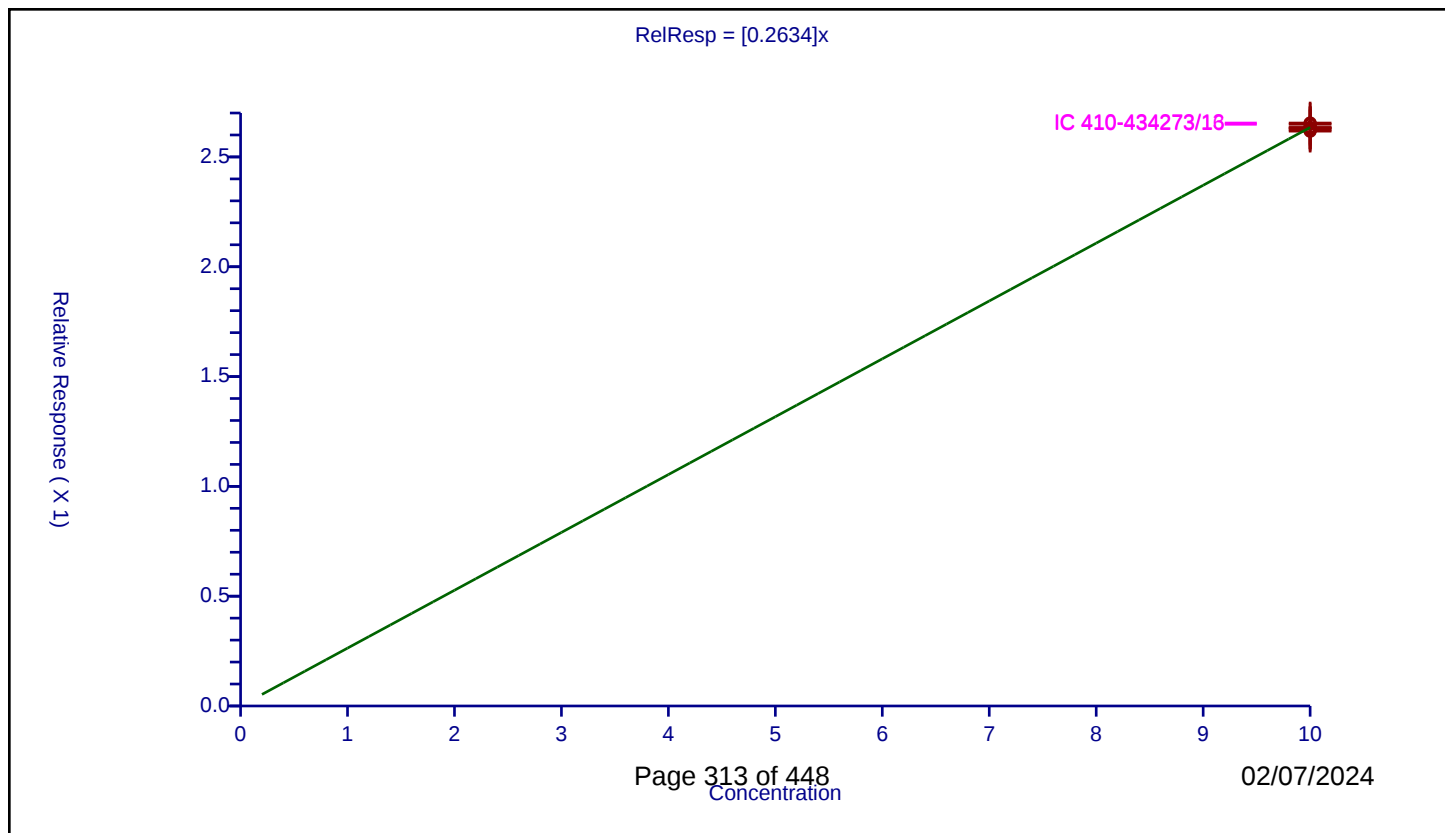
Curve Coefficients

Intercept: 0
 Slope: 0.2634

Error Coefficients

Standard Error: 505000
 Relative Standard Error: 0.5
 Correlation Coefficient: NA
 Coefficient of Determination (Adjusted): 0.000000000000000333

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	10.0	2.654391	10.0	1676893.0	0.265439	Y
2	IC 410-434273/14	10.0	2.617476	10.0	1823738.0	0.261748	Y
3	IC 410-434273/15	10.0	2.634179	10.0	1679039.0	0.263418	Y
4	IC 410-434273/16	10.0	2.648677	10.0	1680409.0	0.264868	Y
5	IC 410-434273/17	10.0	2.62265	10.0	1736785.0	0.262265	Y
6	ICIS 410-434273/18	10.0	2.632703	10.0	1932713.0	0.26327	Y
7	IC 410-434273/19	10.0	2.630505	10.0	1880198.0	0.26305	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

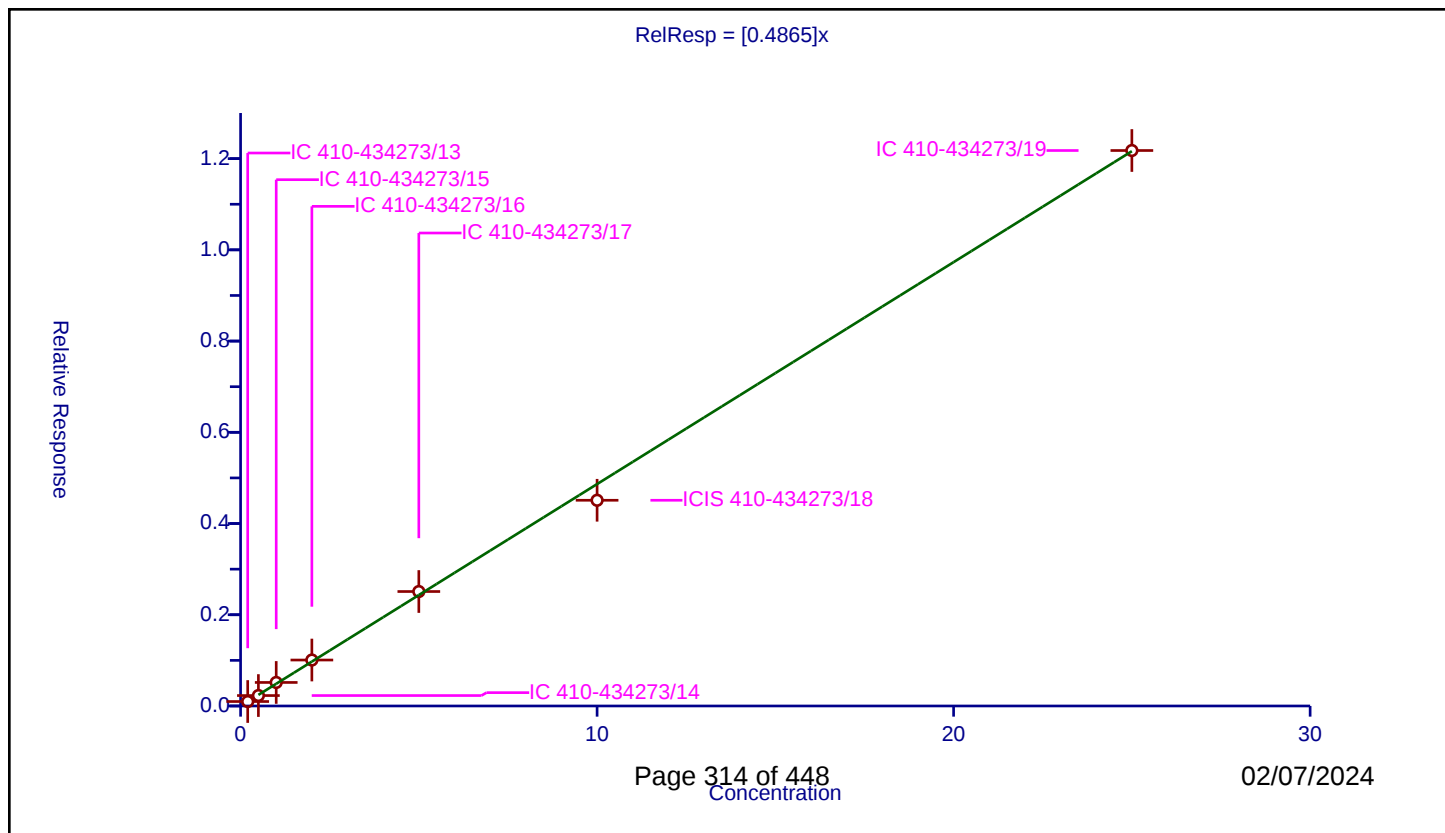
Curve Coefficients

Intercept: 0
 Slope: 0.4865

Error Coefficients

Standard Error: 1020000
 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 410-434273/13	0.2	0.097734	10.0	1676893.0	0.488672	Y
2	IC 410-434273/14	0.5	0.228783	10.0	1823738.0	0.457566	Y
3	IC 410-434273/15	1.0	0.51564	10.0	1679039.0	0.51564	Y
4	IC 410-434273/16	2.0	1.007445	10.0	1680409.0	0.503723	Y
5	IC 410-434273/17	5.0	2.509234	10.0	1736785.0	0.501847	Y
6	ICIS 410-434273/18	10.0	4.509987	10.0	1932713.0	0.450999	Y
7	IC 410-434273/19	25.0	12.177787	10.0	1880198.0	0.487111	Y



Calibration

/ Cyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

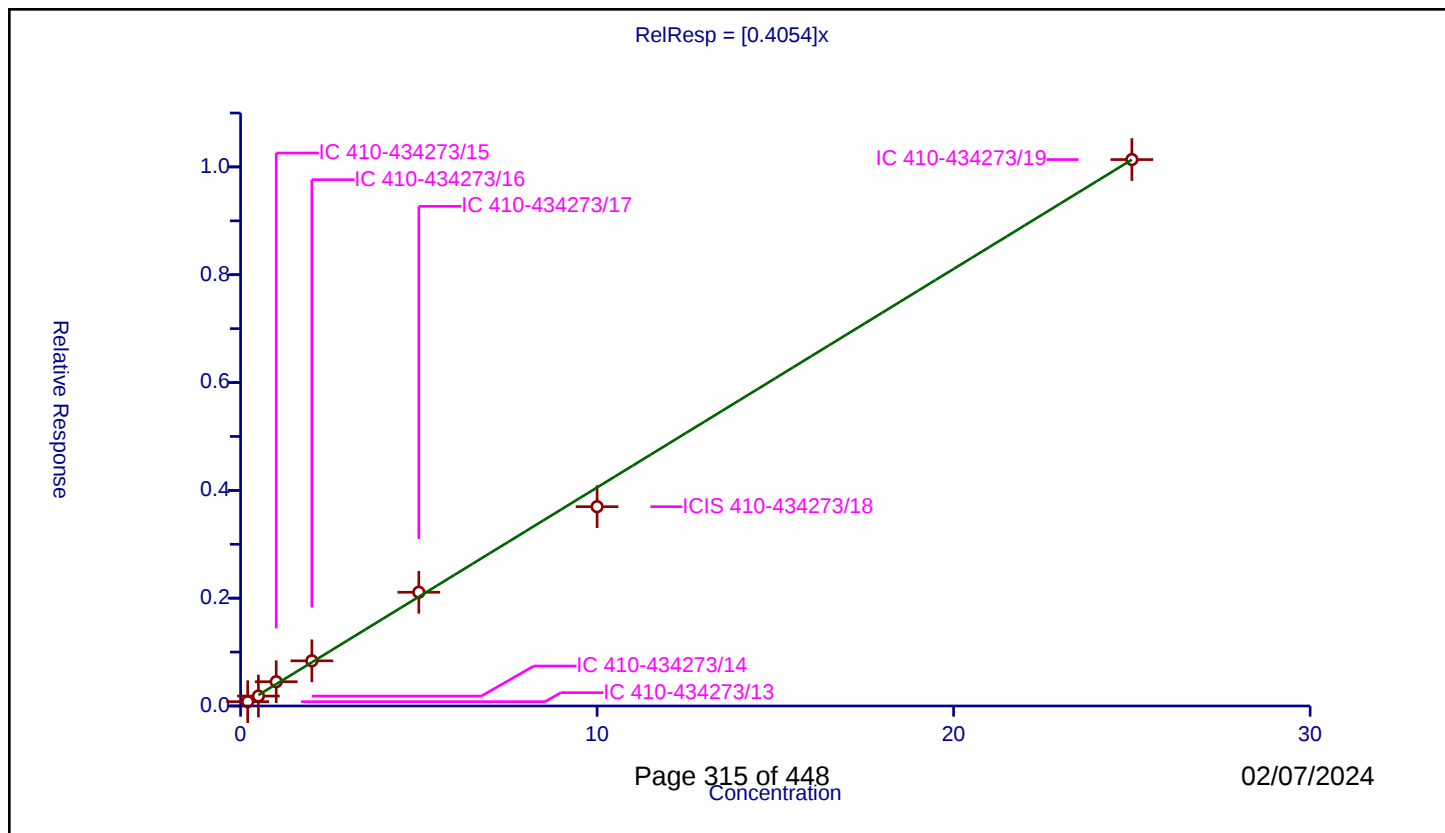
Curve Coefficients

Intercept: 0
Slope: 0.4054

Error Coefficients

Standard Error: 847000
Relative Standard Error: 7.2
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.080387	10.0	1676893.0	0.401934	Y
2	IC 410-434273/14	0.5	0.184489	10.0	1823738.0	0.368978	Y
3	IC 410-434273/15	1.0	0.450514	10.0	1679039.0	0.450514	Y
4	IC 410-434273/16	2.0	0.837707	10.0	1680409.0	0.418853	Y
5	IC 410-434273/17	5.0	2.110284	10.0	1736785.0	0.422057	Y
6	ICIS 410-434273/18	10.0	3.697492	10.0	1932713.0	0.369749	Y
7	IC 410-434273/19	25.0	10.136353	10.0	1880198.0	0.405454	Y



Calibration

/ 1,1-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

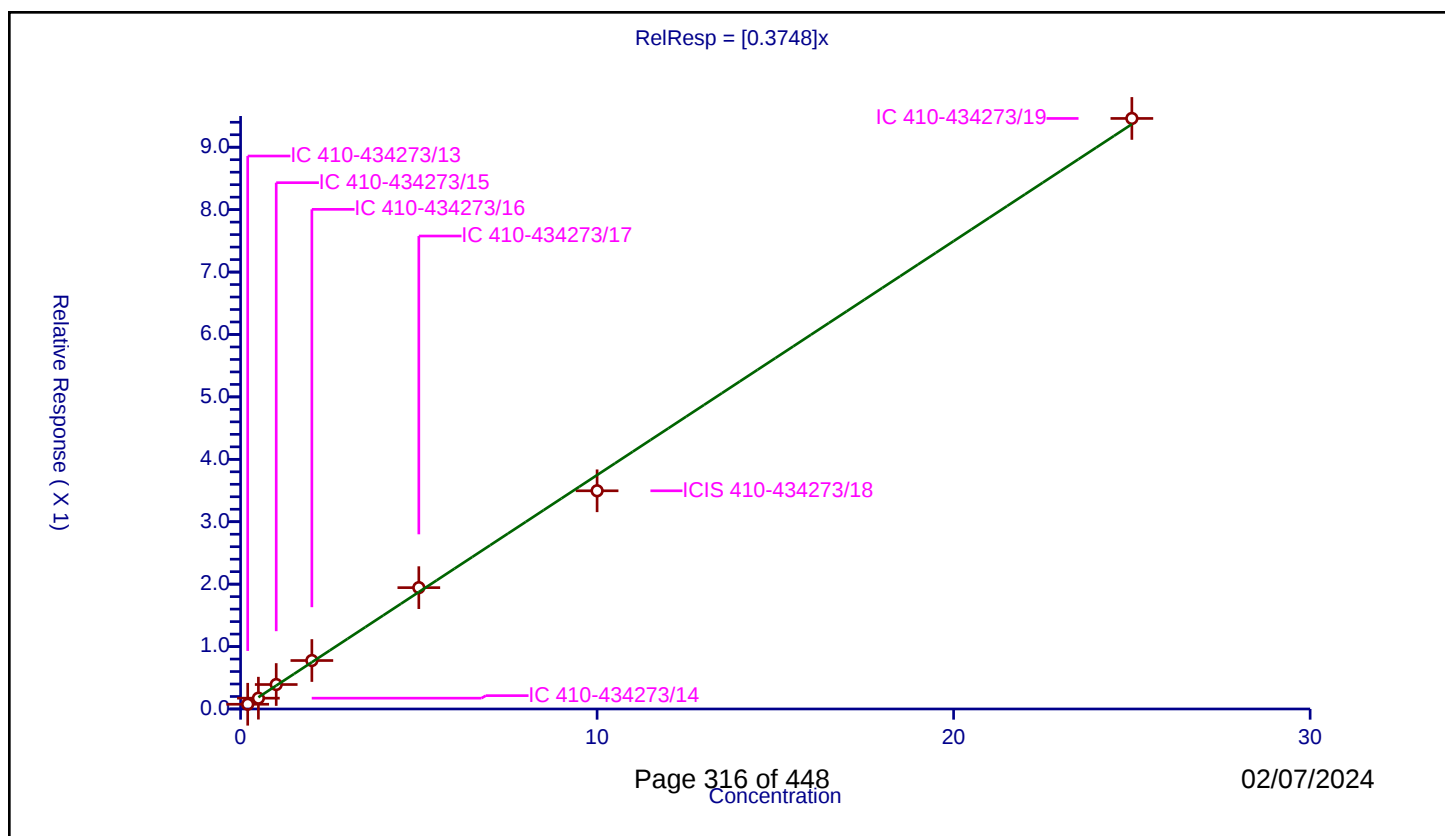
Curve Coefficients

Intercept: 0
Slope: 0.3748

Error Coefficients

Standard Error: 791000
Relative Standard Error: 5.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.076028	10.0	1676893.0	0.380138	Y
2	IC 410-434273/14	0.5	0.173199	10.0	1823738.0	0.346398	Y
3	IC 410-434273/15	1.0	0.391778	10.0	1679039.0	0.391778	Y
4	IC 410-434273/16	2.0	0.776537	10.0	1680409.0	0.388269	Y
5	IC 410-434273/17	5.0	1.943948	10.0	1736785.0	0.38879	Y
6	ICIS 410-434273/18	10.0	3.495827	10.0	1932713.0	0.349583	Y
7	IC 410-434273/19	25.0	9.461211	10.0	1880198.0	0.378448	Y



Calibration

/ Carbon tetrachloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

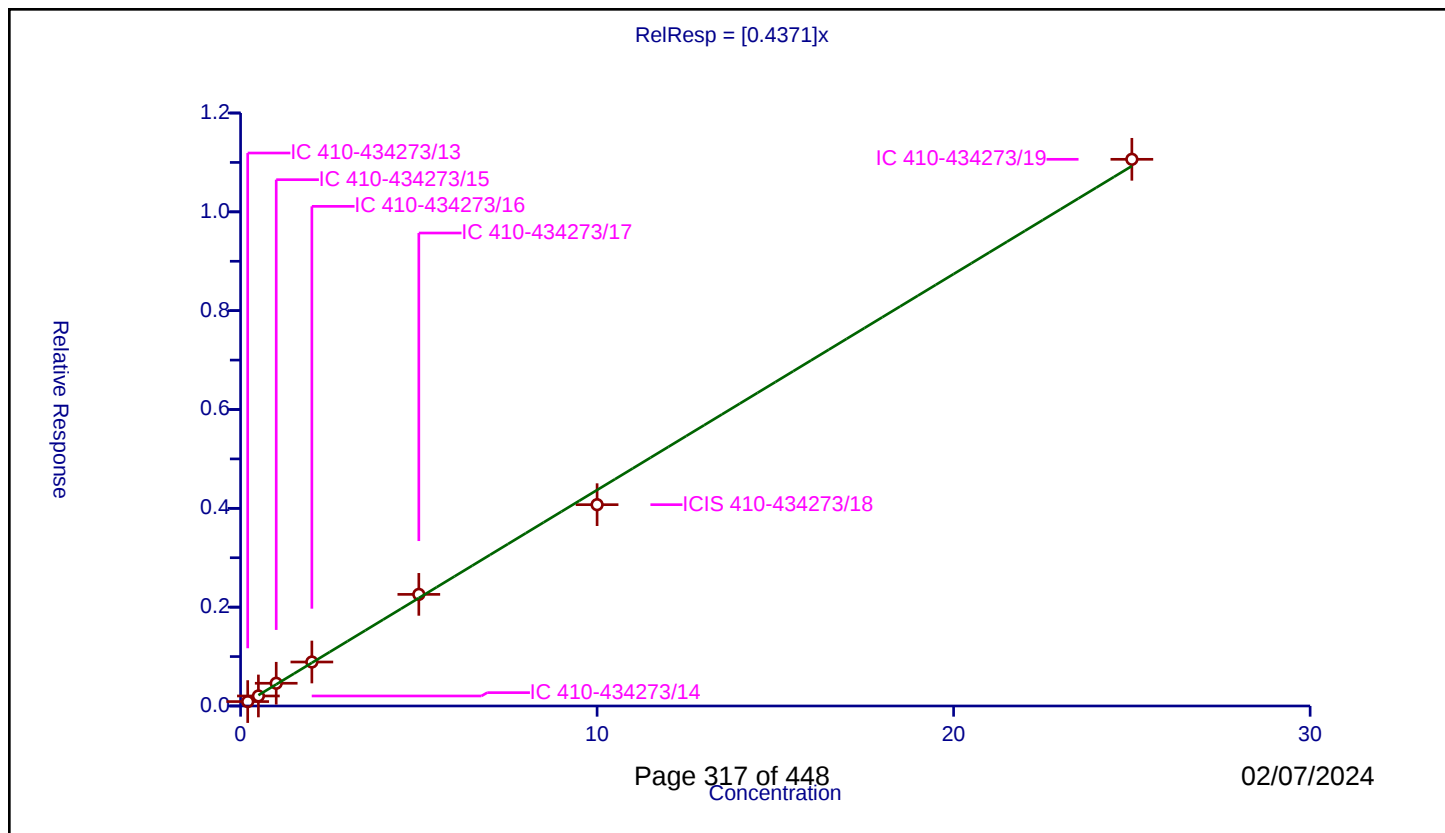
Curve Coefficients

Intercept: 0
 Slope: 0.4371

Error Coefficients

Standard Error: 925000
 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 410-434273/13	0.2	0.089481	10.0	1676893.0	0.447405	Y
2	IC 410-434273/14	0.5	0.202611	10.0	1823738.0	0.405223	Y
3	IC 410-434273/15	1.0	0.460156	10.0	1679039.0	0.460156	Y
4	IC 410-434273/16	2.0	0.890063	10.0	1680409.0	0.445032	Y
5	IC 410-434273/17	5.0	2.258587	10.0	1736785.0	0.451717	Y
6	ICIS 410-434273/18	10.0	4.073978	10.0	1932713.0	0.407398	Y
7	IC 410-434273/19	25.0	11.063319	10.0	1880198.0	0.442533	Y



Calibration

/ Isobutyl alcohol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

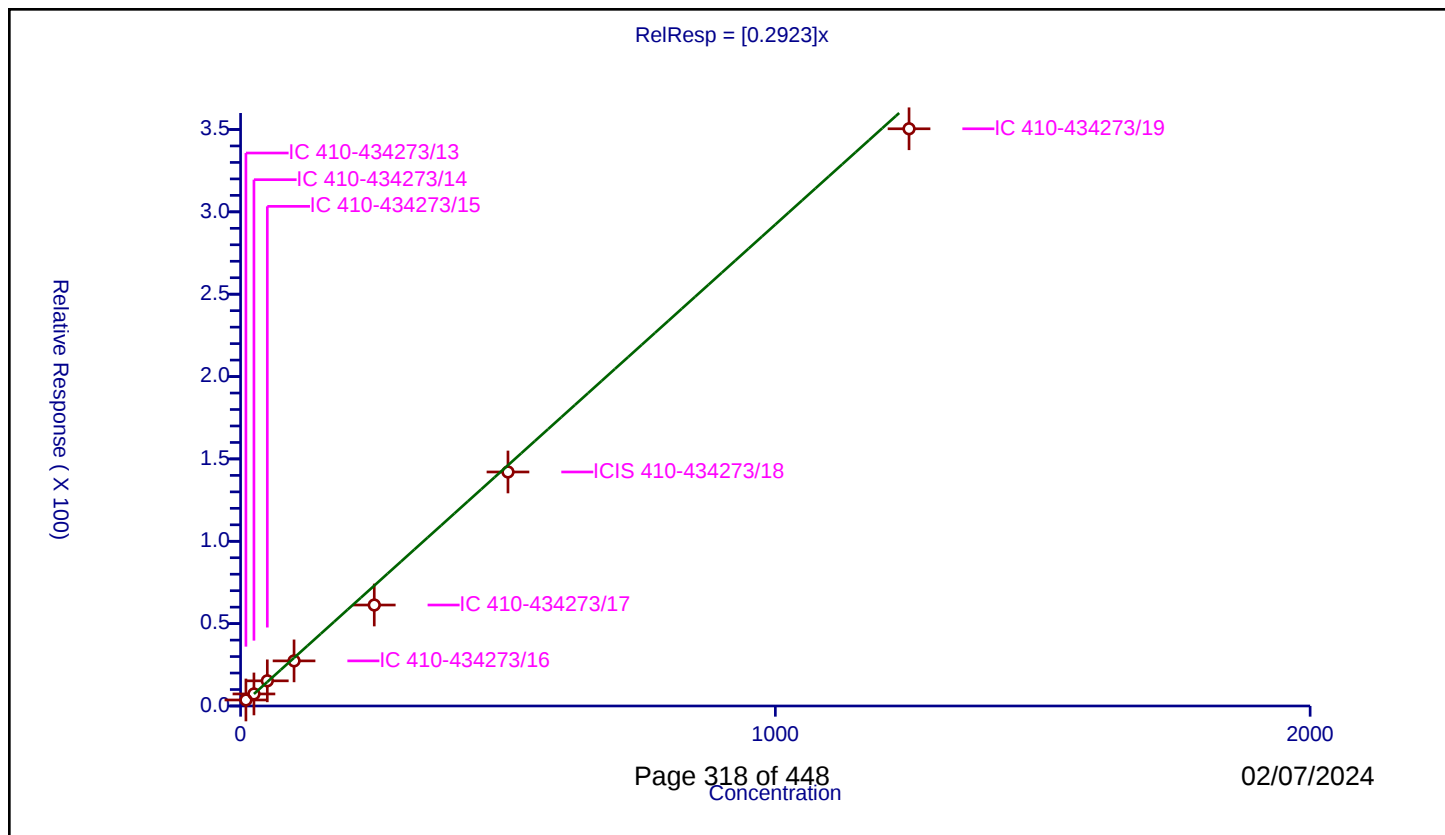
Curve Coefficients

Intercept: 0
Slope: 0.2923

Error Coefficients

Standard Error: 569000
Relative Standard Error: 12.6
Correlation Coefficient: 0.996
Coefficient of Determination (Adjusted): 0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	10.0	3.643789	50.0	135285.0	0.364379	Y
2	IC 410-434273/14	25.0	7.316728	50.0	152001.0	0.292669	Y
3	IC 410-434273/15	50.0	15.280851	50.0	149118.0	0.305617	Y
4	IC 410-434273/16	100.0	27.383573	50.0	145821.0	0.273836	Y
5	IC 410-434273/17	250.0	61.309372	50.0	141312.0	0.245237	Y
6	ICIS 410-434273/18	500.0	142.066537	50.0	179329.0	0.284133	Y
7	IC 410-434273/19	1250.0	350.431827	50.0	183175.0	0.280345	Y



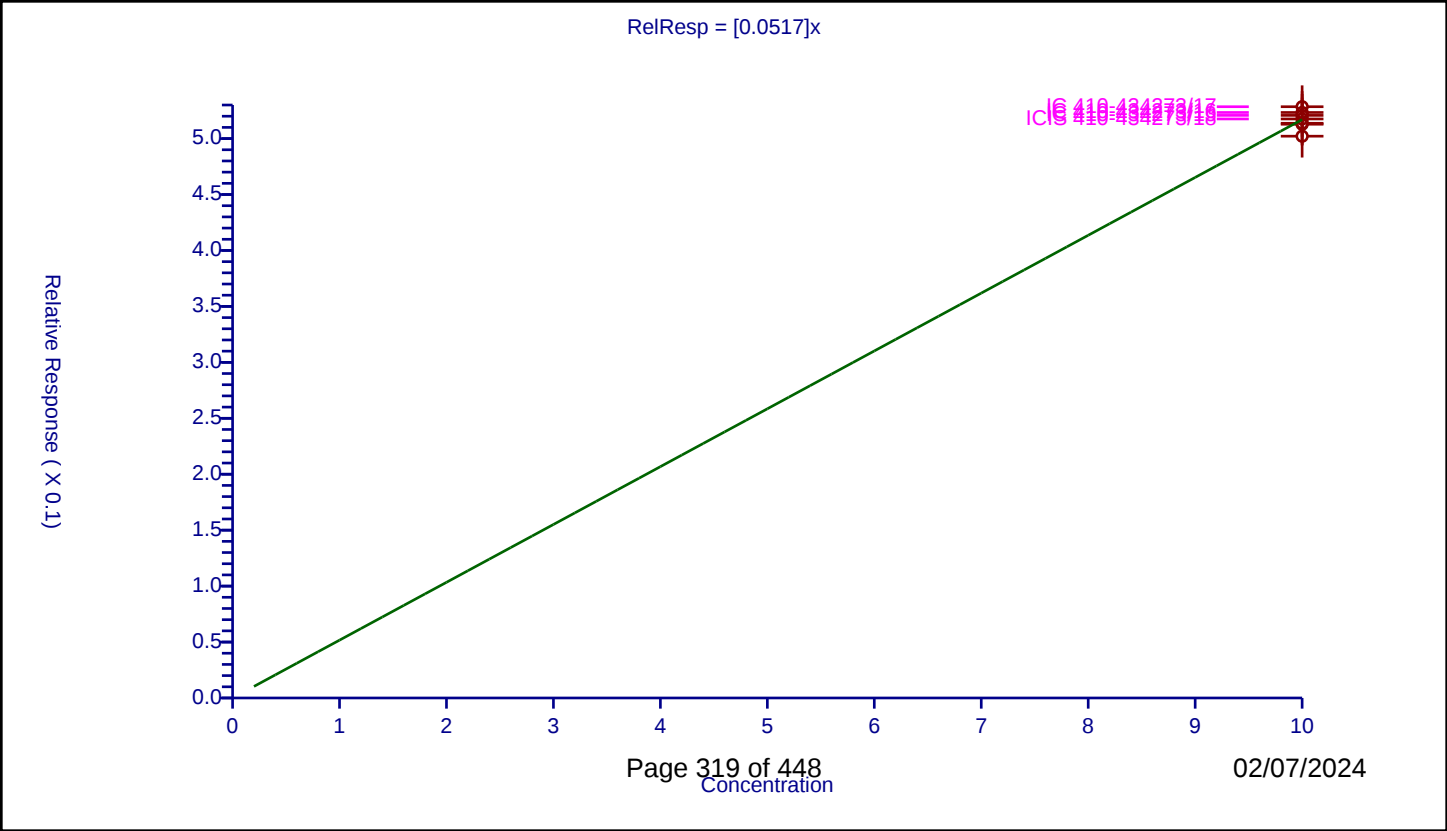
Calibration

/ 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:	0.0517
Error Coefficients	
Standard Error:	99100
Relative Standard Error:	1.6
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

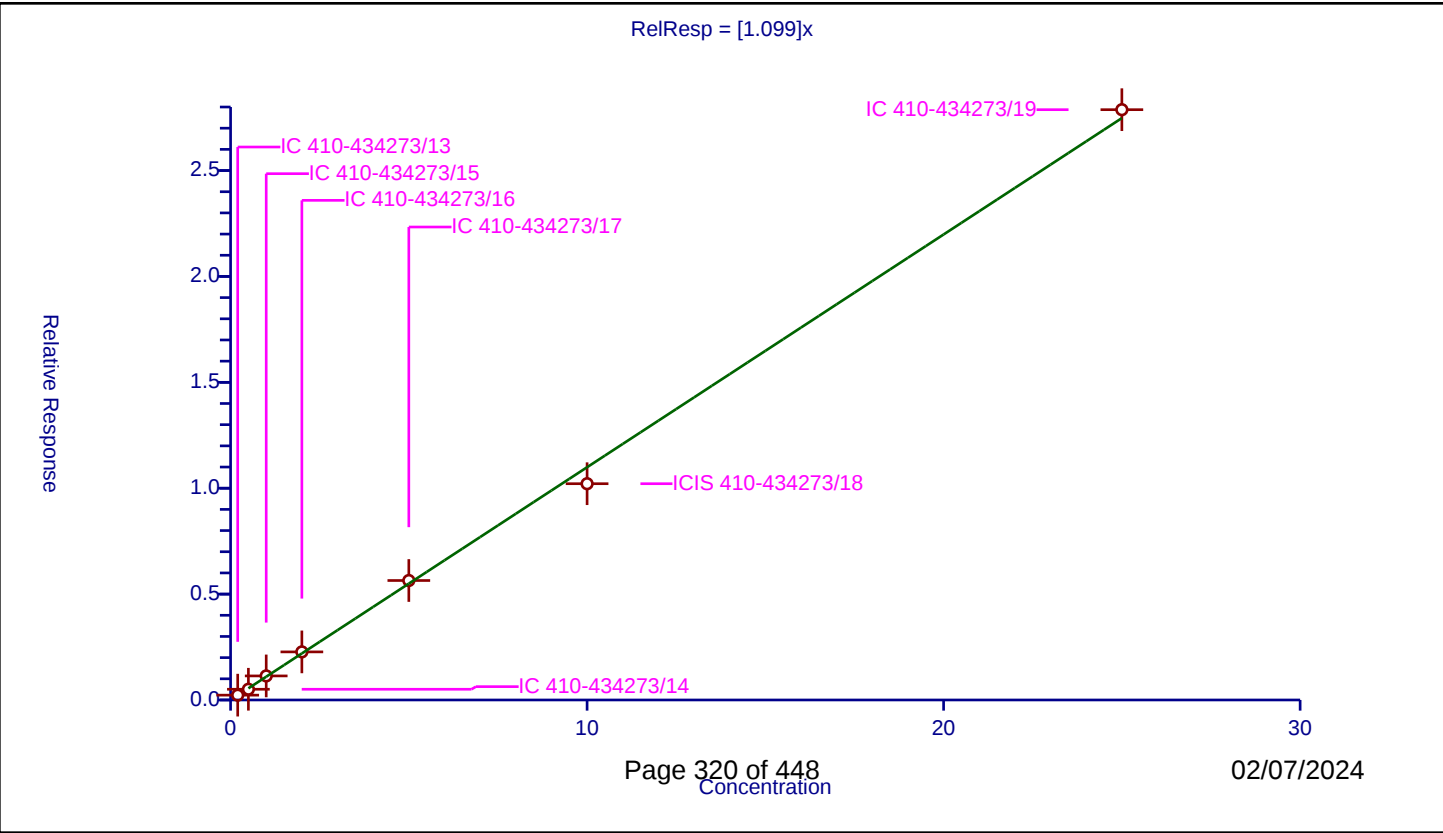
ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	10.0	0.520731	10.0	1676893.0	0.052073	Y
2	IC 410-434273/14	10.0	0.51282	10.0	1823738.0	0.051282	Y
3	IC 410-434273/15	10.0	0.513669	10.0	1679039.0	0.051367	Y
4	IC 410-434273/16	10.0	0.523325	10.0	1680409.0	0.052332	Y
5	IC 410-434273/17	10.0	0.528471	10.0	1736785.0	0.052847	Y
6	ICIS 410-434273/18	10.0	0.517526	10.0	1932713.0	0.051753	Y
7	IC 410-434273/19	10.0	0.502139	10.0	1880198.0	0.050214	Y



Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.099
Error Coefficients	
Standard Error:	2330000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.228452	10.0	1676893.0	1.142261	Y
2	IC 410-434273/14	0.5	0.507326	10.0	1823738.0	1.014652	Y
3	IC 410-434273/15	1.0	1.136549	10.0	1679039.0	1.136549	Y
4	IC 410-434273/16	2.0	2.271215	10.0	1680409.0	1.135607	Y
5	IC 410-434273/17	5.0	5.641211	10.0	1736785.0	1.128242	Y
6	ICIS 410-434273/18	10.0	10.212354	10.0	1932713.0	1.021235	Y
7	IC 410-434273/19	25.0	27.873463	10.0	1880198.0	1.114939	Y



Calibration

/ 1,2-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

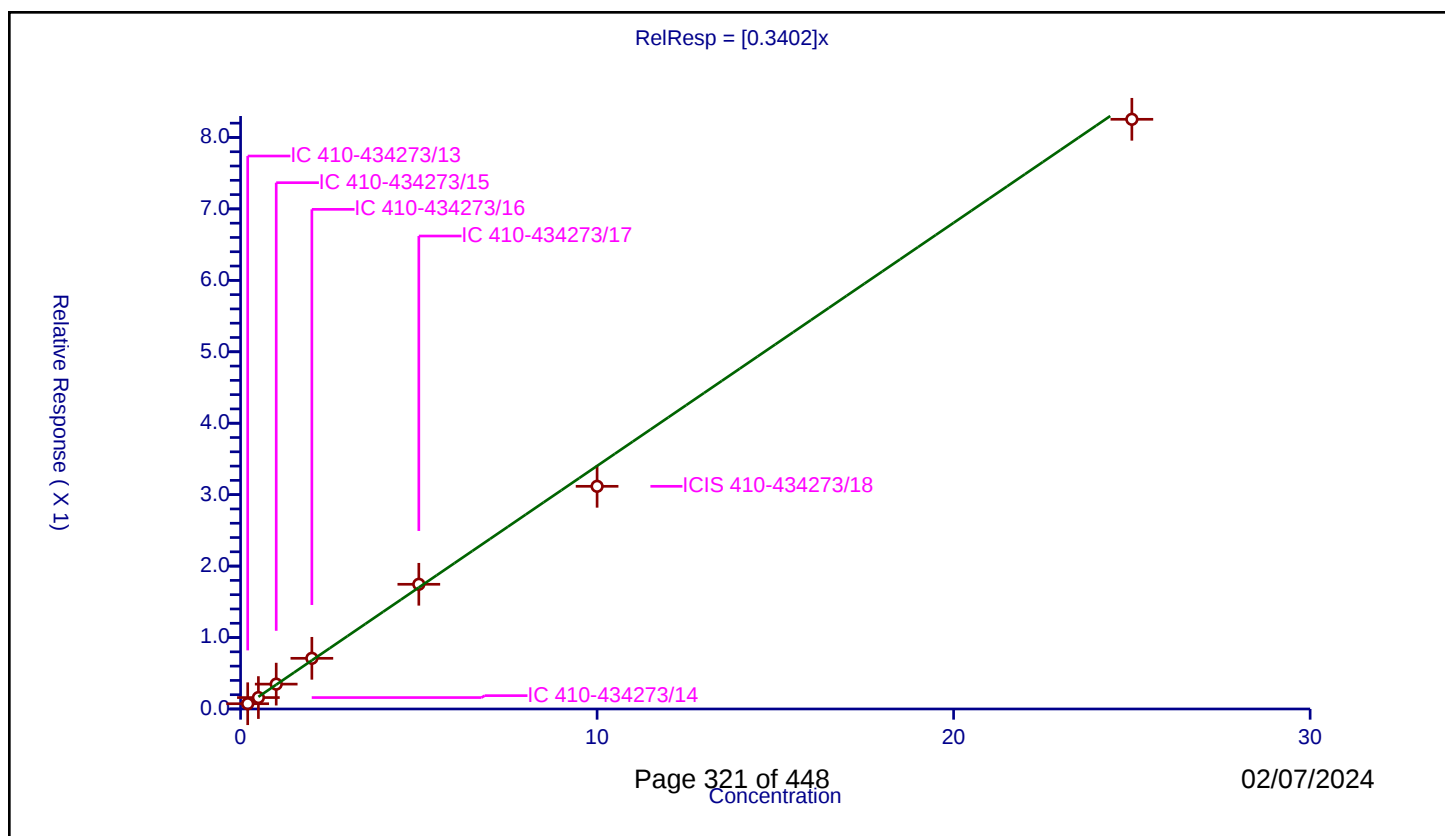
Curve Coefficients

Intercept: 0
 Slope: 0.3402

Error Coefficients

Standard Error: 693000
 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 410-434273/13	0.2	0.073648	10.0	1676893.0	0.368241	Y
2	IC 410-434273/14	0.5	0.15988	10.0	1823738.0	0.319761	Y
3	IC 410-434273/15	1.0	0.347985	10.0	1679039.0	0.347985	Y
4	IC 410-434273/16	2.0	0.709482	10.0	1680409.0	0.354741	Y
5	IC 410-434273/17	5.0	1.745628	10.0	1736785.0	0.349126	Y
6	ICIS 410-434273/18	10.0	3.116976	10.0	1932713.0	0.311698	Y
7	IC 410-434273/19	25.0	8.253945	10.0	1880198.0	0.330158	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

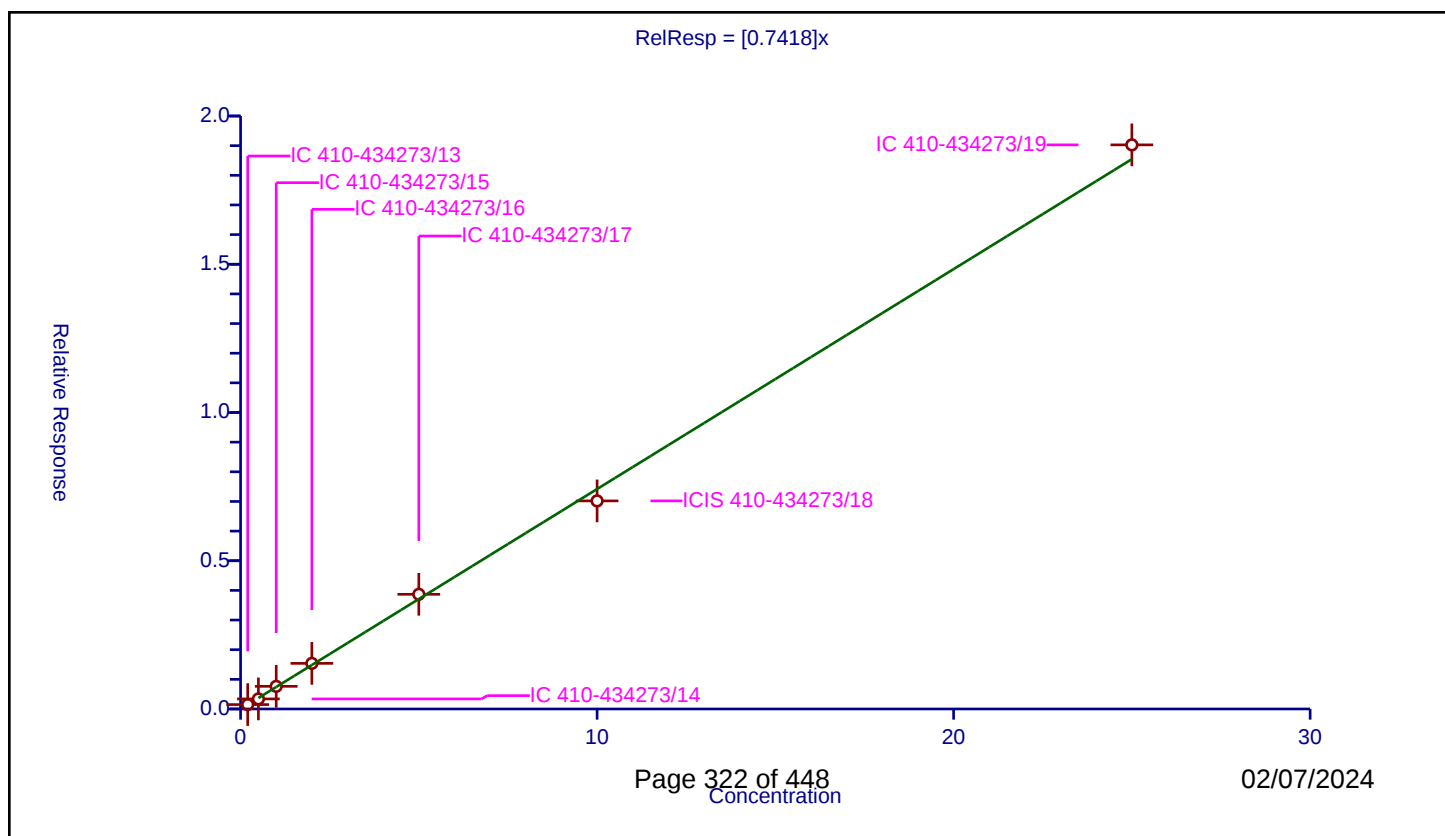
Curve Coefficients

Intercept: 0
Slope: 0.7418

Error Coefficients

Standard Error: 1590000
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 410-434273/13	0.2	0.14899	10.0	1676893.0	0.744949	Y
2	IC 410-434273/14	0.5	0.339232	10.0	1823738.0	0.678464	Y
3	IC 410-434273/15	1.0	0.763758	10.0	1679039.0	0.763758	Y
4	IC 410-434273/16	2.0	1.538137	10.0	1680409.0	0.769069	Y
5	IC 410-434273/17	5.0	3.86752	10.0	1736785.0	0.773504	Y
6	ICIS 410-434273/18	10.0	7.018875	10.0	1932713.0	0.701887	Y
7	IC 410-434273/19	25.0	19.026411	10.0	1880198.0	0.761056	Y



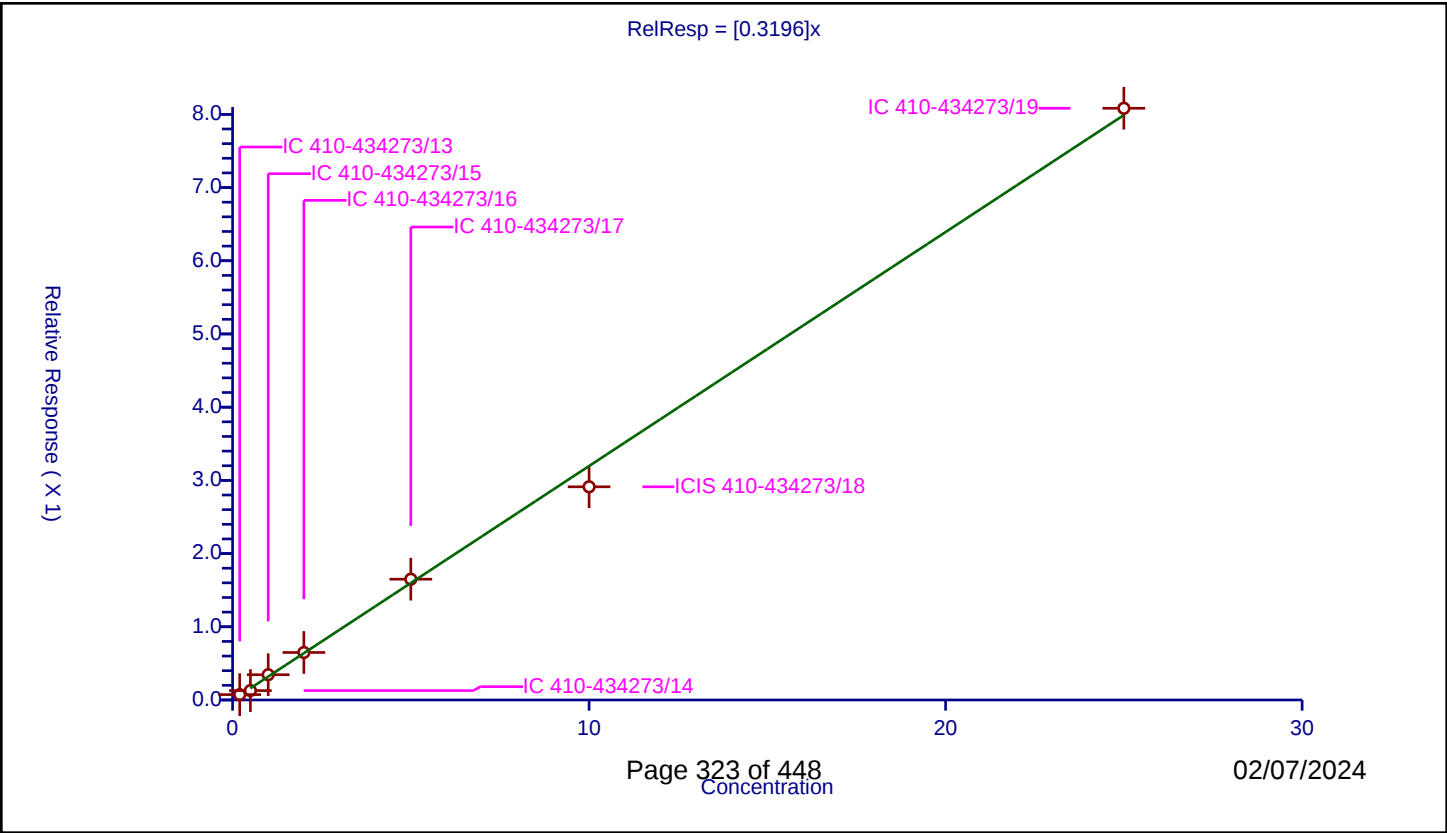
Calibration

/ 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:	0.3196
Error Coefficients	
Standard Error:	674000
Relative Standard Error:	11.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.073219	10.0	1676893.0	0.366094	Y
2	IC 410-434273/14	0.5	0.128363	10.0	1823738.0	0.256725	Y
3	IC 410-434273/15	1.0	0.345305	10.0	1679039.0	0.345305	Y
4	IC 410-434273/16	2.0	0.649003	10.0	1680409.0	0.324501	Y
5	IC 410-434273/17	5.0	1.650089	10.0	1736785.0	0.330018	Y
6	ICIS 410-434273/18	10.0	2.912222	10.0	1932713.0	0.291222	Y
7	IC 410-434273/19	25.0	8.08283	10.0	1880198.0	0.323313	Y



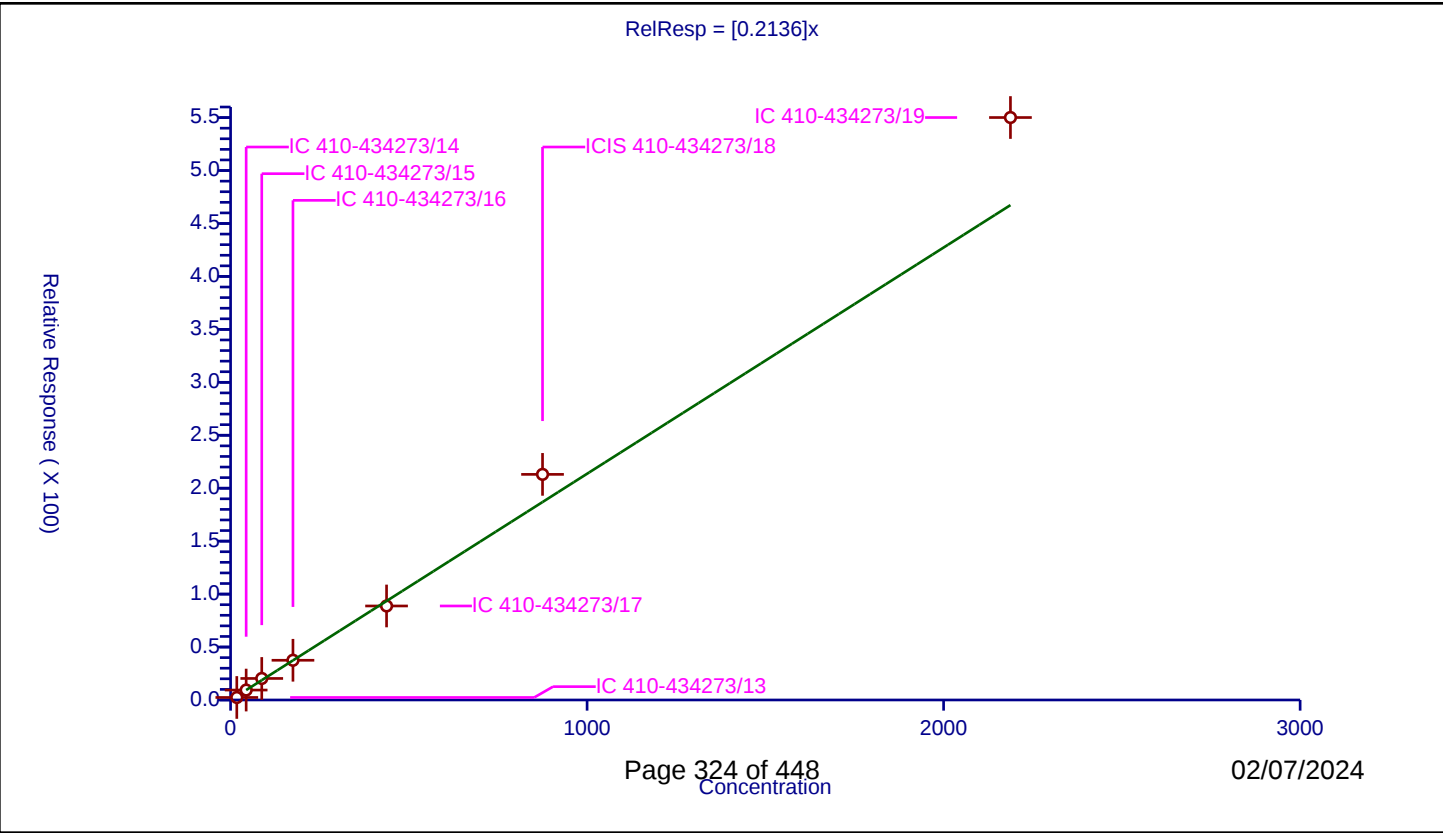
Calibration

/ 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:	0.2136
Error Coefficients	
Standard Error:	887000
Relative Standard Error:	17.9
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.965

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	17.5	2.386443	50.0	135285.0	0.136368	Y
2	IC 410-434273/14	43.75	9.379873	50.0	152001.0	0.214397	Y
3	IC 410-434273/15	87.5	20.344626	50.0	149118.0	0.23251	Y
4	IC 410-434273/16	175.0	37.504543	50.0	145821.0	0.214312	Y
5	IC 410-434273/17	437.5	88.784746	50.0	141312.0	0.202937	Y
6	ICIS 410-434273/18	875.0	213.070669	50.0	179329.0	0.243509	Y
7	IC 410-434273/19	2187.5	550.087894	50.0	183175.0	0.251469	Y



Calibration

/ Trichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

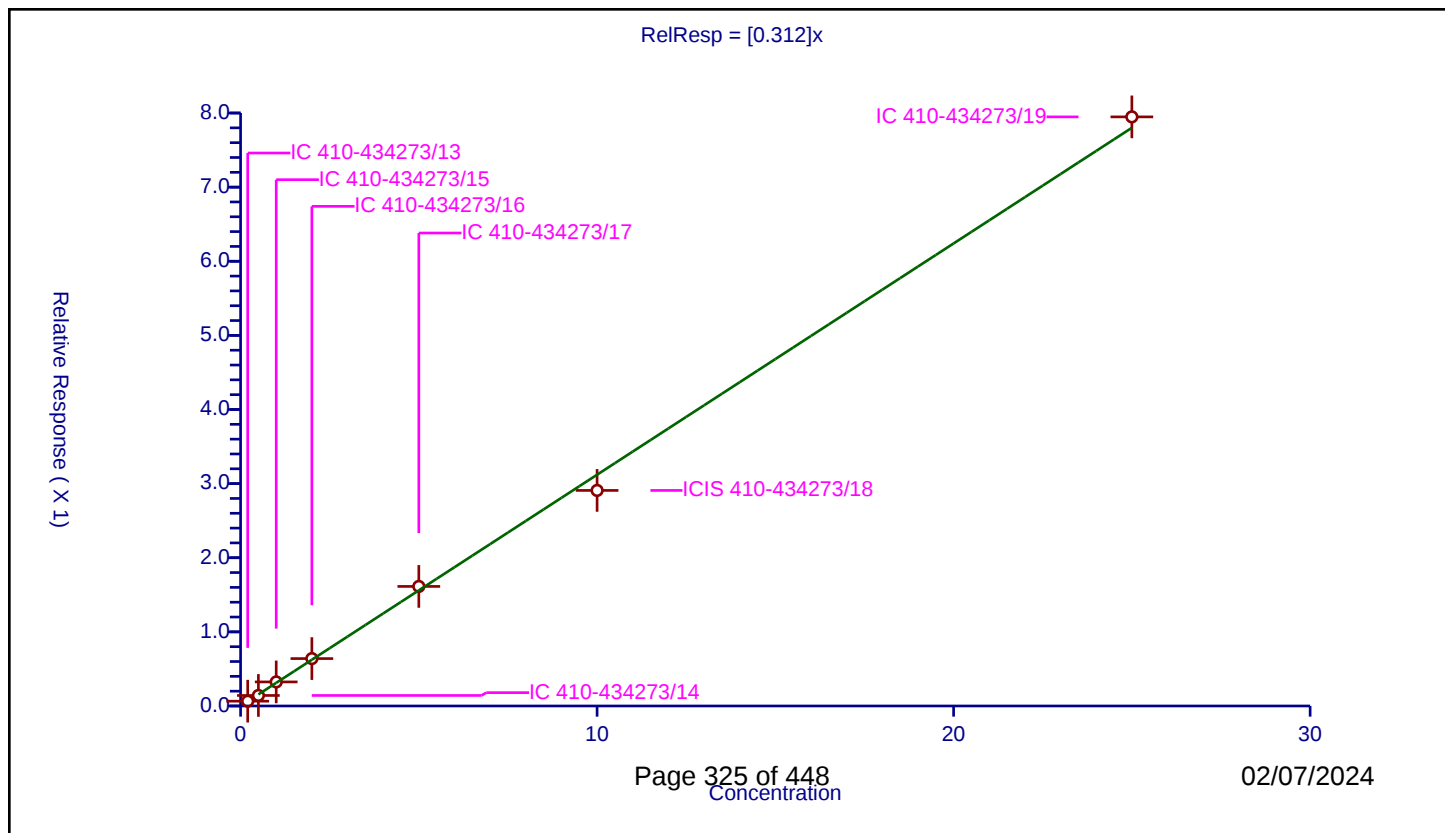
Curve Coefficients

Intercept: 0
 Slope: 0.312

Error Coefficients

Standard Error: 664000
 Relative Standard Error: 5.5
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.064876	10.0	1676893.0	0.32438	Y
2	IC 410-434273/14	0.5	0.142087	10.0	1823738.0	0.284175	Y
3	IC 410-434273/15	1.0	0.324549	10.0	1679039.0	0.324549	Y
4	IC 410-434273/16	2.0	0.639338	10.0	1680409.0	0.319669	Y
5	IC 410-434273/17	5.0	1.613153	10.0	1736785.0	0.322631	Y
6	ICIS 410-434273/18	10.0	2.908233	10.0	1932713.0	0.290823	Y
7	IC 410-434273/19	25.0	7.947918	10.0	1880198.0	0.317917	Y



Calibration

/ Methylcyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

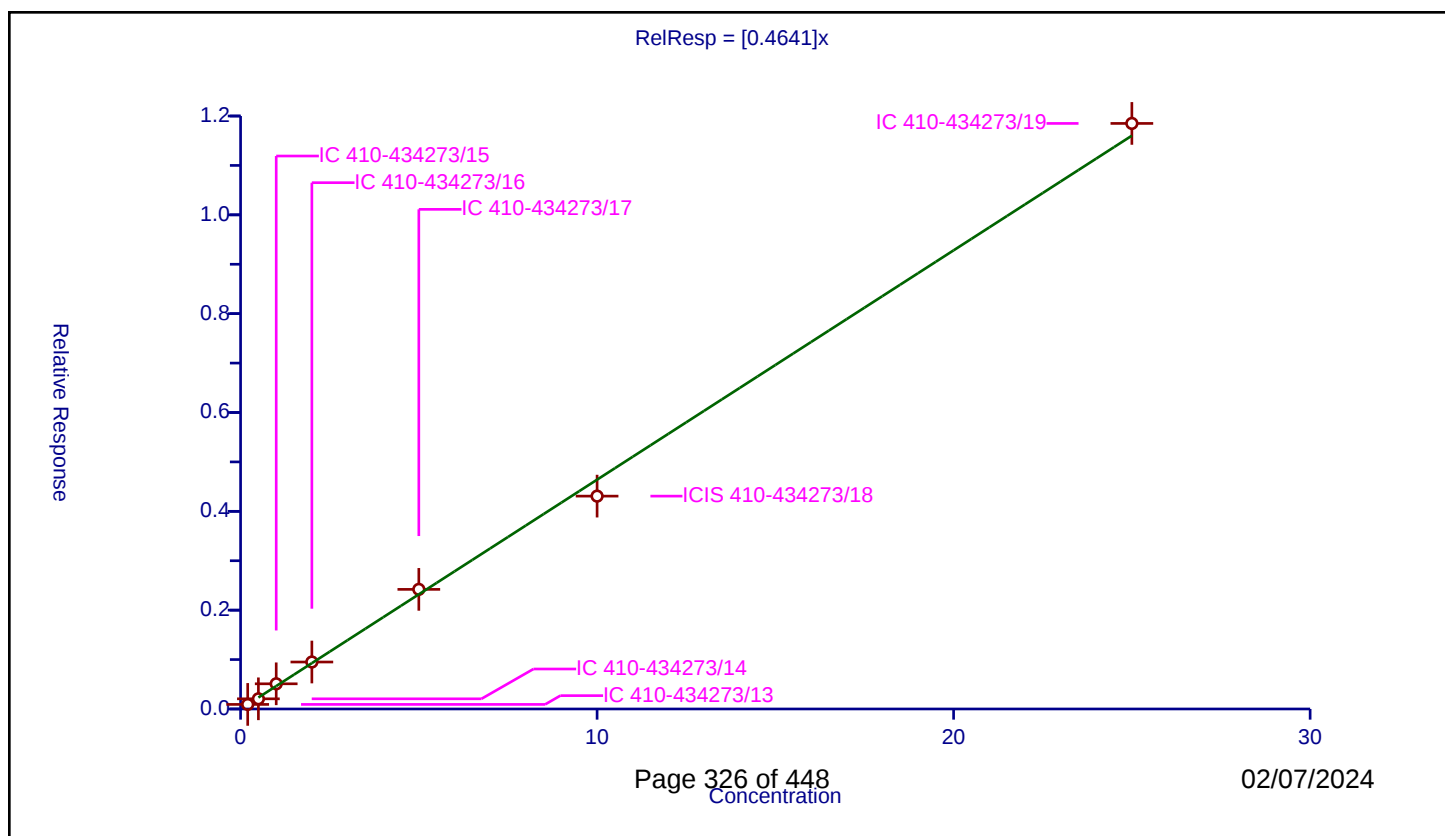
Curve Coefficients

Intercept: 0
Slope: 0.4641

Error Coefficients

Standard Error: 989000
Relative Standard Error: 7.2
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.092648	10.0	1676893.0	0.463238	Y
2	IC 410-434273/14	0.5	0.205622	10.0	1823738.0	0.411243	Y
3	IC 410-434273/15	1.0	0.509804	10.0	1679039.0	0.509804	Y
4	IC 410-434273/16	2.0	0.95084	10.0	1680409.0	0.47542	Y
5	IC 410-434273/17	5.0	2.420829	10.0	1736785.0	0.484166	Y
6	ICIS 410-434273/18	10.0	4.307877	10.0	1932713.0	0.430788	Y
7	IC 410-434273/19	25.0	11.849959	10.0	1880198.0	0.473998	Y



Calibration

/ 1,2-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

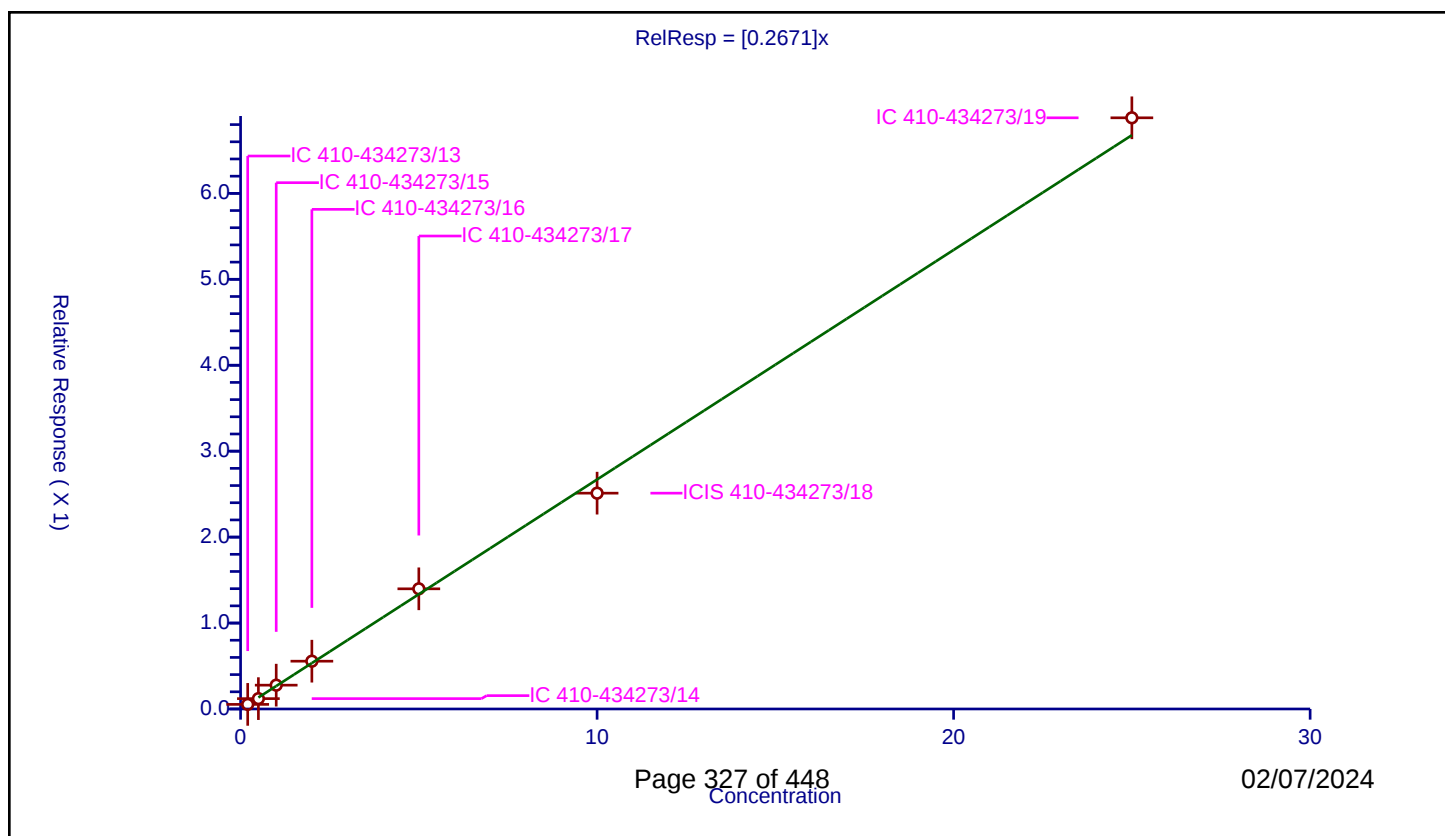
Curve Coefficients

Intercept: 0
Slope: 0.2671

Error Coefficients

Standard Error: 574000
Relative Standard Error: 5.7
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.053438	10.0	1676893.0	0.267191	Y
2	IC 410-434273/14	0.5	0.120489	10.0	1823738.0	0.240978	Y
3	IC 410-434273/15	1.0	0.277242	10.0	1679039.0	0.277242	Y
4	IC 410-434273/16	2.0	0.556275	10.0	1680409.0	0.278138	Y
5	IC 410-434273/17	5.0	1.398221	10.0	1736785.0	0.279644	Y
6	ICIS 410-434273/18	10.0	2.511351	10.0	1932713.0	0.251135	Y
7	IC 410-434273/19	25.0	6.879143	10.0	1880198.0	0.275166	Y



Calibration

/ Methyl methacrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

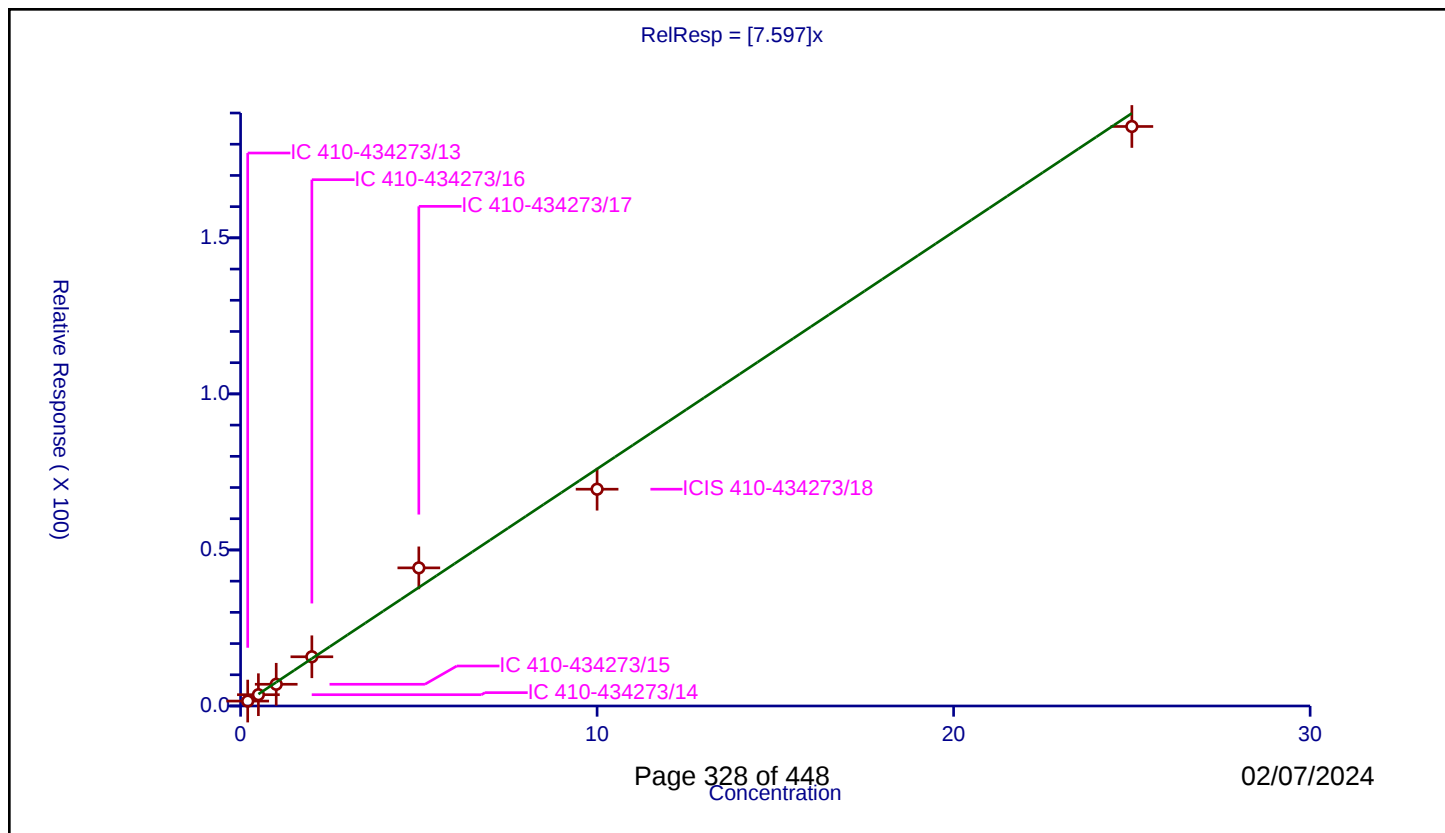
Curve Coefficients

Intercept: 0
 Slope: 7.597

Error Coefficients

Standard Error: 301000
 Relative Standard Error: 8.9
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	1.574824	50.0	135285.0	7.874118	Y
2	IC 410-434273/14	0.5	3.616753	50.0	152001.0	7.233505	Y
3	IC 410-434273/15	1.0	6.959254	50.0	149118.0	6.959254	Y
4	IC 410-434273/16	2.0	15.769677	50.0	145821.0	7.884838	Y
5	IC 410-434273/17	5.0	44.258803	50.0	141312.0	8.851761	Y
6	ICIS 410-434273/18	10.0	69.462552	50.0	179329.0	6.946255	Y
7	IC 410-434273/19	25.0	185.684728	50.0	183175.0	7.427389	Y



Calibration

/ 1,4-Dioxane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

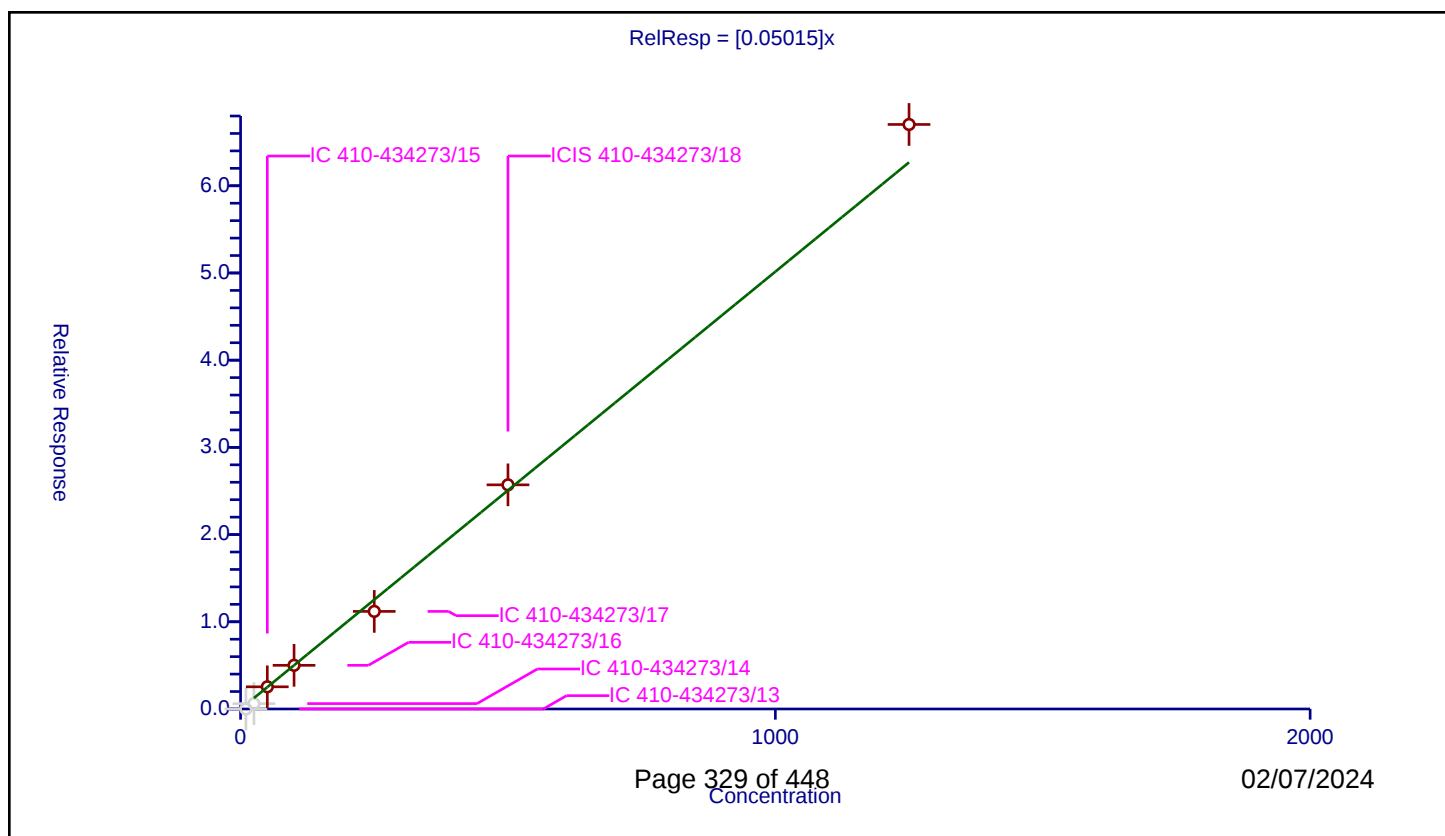
Curve Coefficients

Intercept: 0
Slope: 0.05015

Error Coefficients

Standard Error: 132000
Relative Standard Error: 6.6
Correlation Coefficient: 0.996
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	10.0	0.0	50.0	135285.0	0.0	N
2	IC 410-434273/14	25.0	0.616772	50.0	152001.0	0.024671	N
3	IC 410-434273/15	50.0	2.543623	50.0	149118.0	0.050872	Y
4	IC 410-434273/16	100.0	5.007852	50.0	145821.0	0.050079	Y
5	IC 410-434273/17	250.0	11.191194	50.0	141312.0	0.044765	Y
6	ICIS 410-434273/18	500.0	25.705268	50.0	179329.0	0.051411	Y
7	IC 410-434273/19	1250.0	67.029071	50.0	183175.0	0.053623	Y



Calibration

/ Dibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

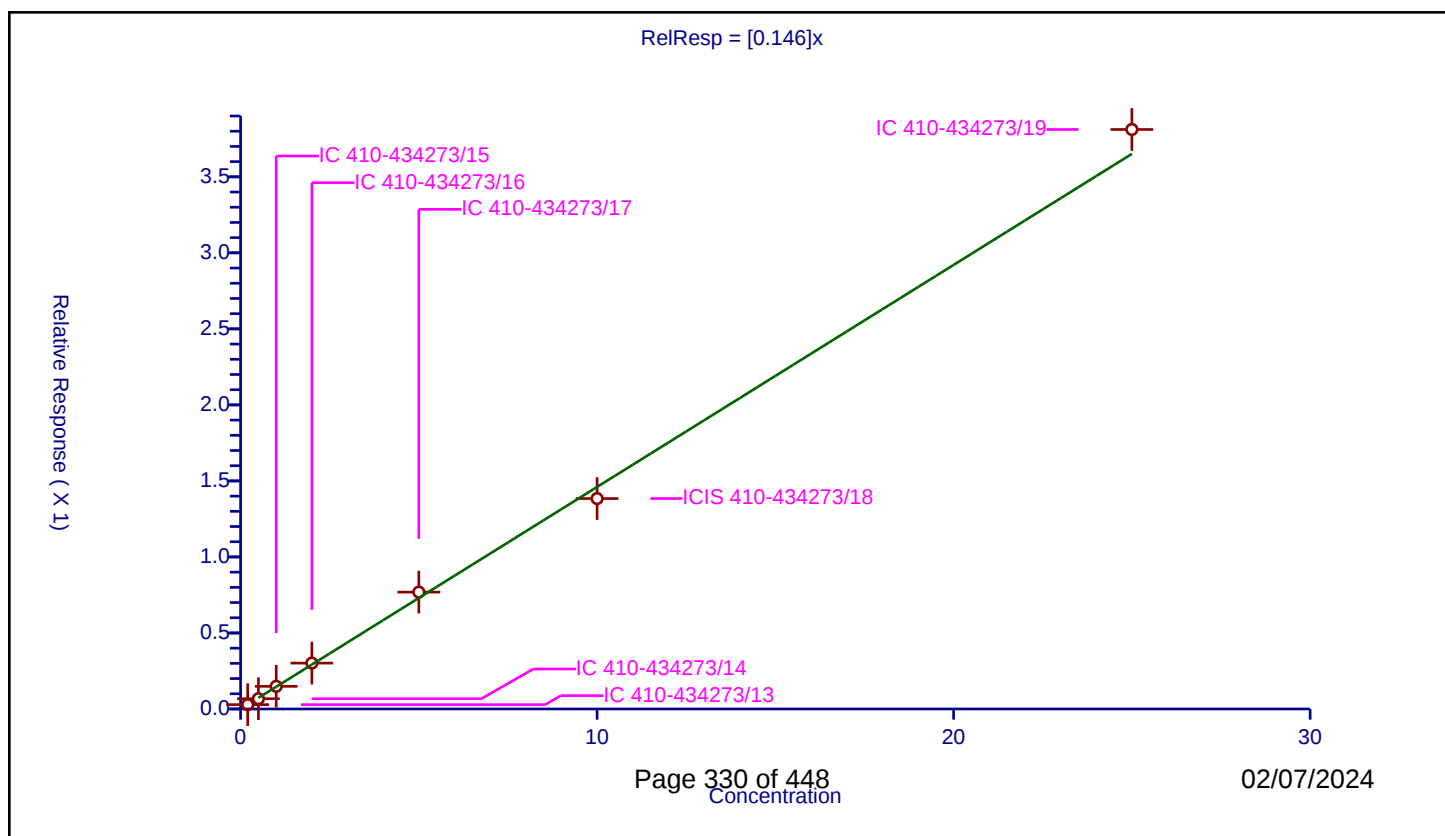
Curve Coefficients

Intercept: 0
Slope: 0.146

Error Coefficients

Standard Error: 318000
Relative Standard Error: 5.0
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.028475	10.0	1676893.0	0.142376	Y
2	IC 410-434273/14	0.5	0.067647	10.0	1823738.0	0.135294	Y
3	IC 410-434273/15	1.0	0.149056	10.0	1679039.0	0.149056	Y
4	IC 410-434273/16	2.0	0.301813	10.0	1680409.0	0.150907	Y
5	IC 410-434273/17	5.0	0.768656	10.0	1736785.0	0.153731	Y
6	ICIS 410-434273/18	10.0	1.384101	10.0	1932713.0	0.13841	Y
7	IC 410-434273/19	25.0	3.811412	10.0	1880198.0	0.152456	Y



Calibration

/ Dichlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

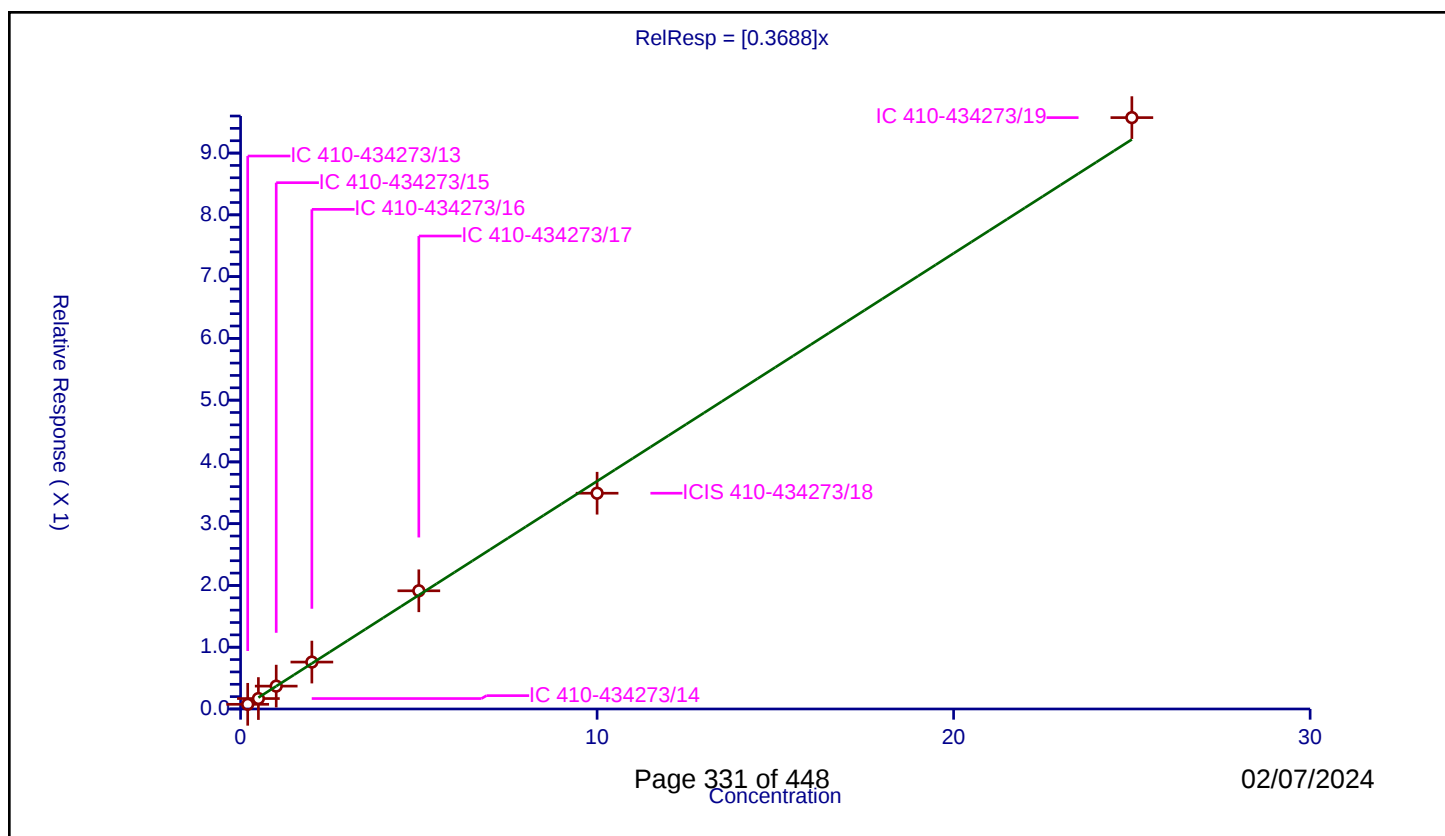
Curve Coefficients

Intercept: 0
Slope: 0.3688

Error Coefficients

Standard Error: 799000
Relative Standard Error: 4.9
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.075741	10.0	1676893.0	0.378706	Y
2	IC 410-434273/14	0.5	0.169098	10.0	1823738.0	0.338196	Y
3	IC 410-434273/15	1.0	0.370081	10.0	1679039.0	0.370081	Y
4	IC 410-434273/16	2.0	0.7595	10.0	1680409.0	0.37975	Y
5	IC 410-434273/17	5.0	1.913628	10.0	1736785.0	0.382726	Y
6	ICIS 410-434273/18	10.0	3.493348	10.0	1932713.0	0.349335	Y
7	IC 410-434273/19	25.0	9.574157	10.0	1880198.0	0.382966	Y



Calibration

/ 2-Nitropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

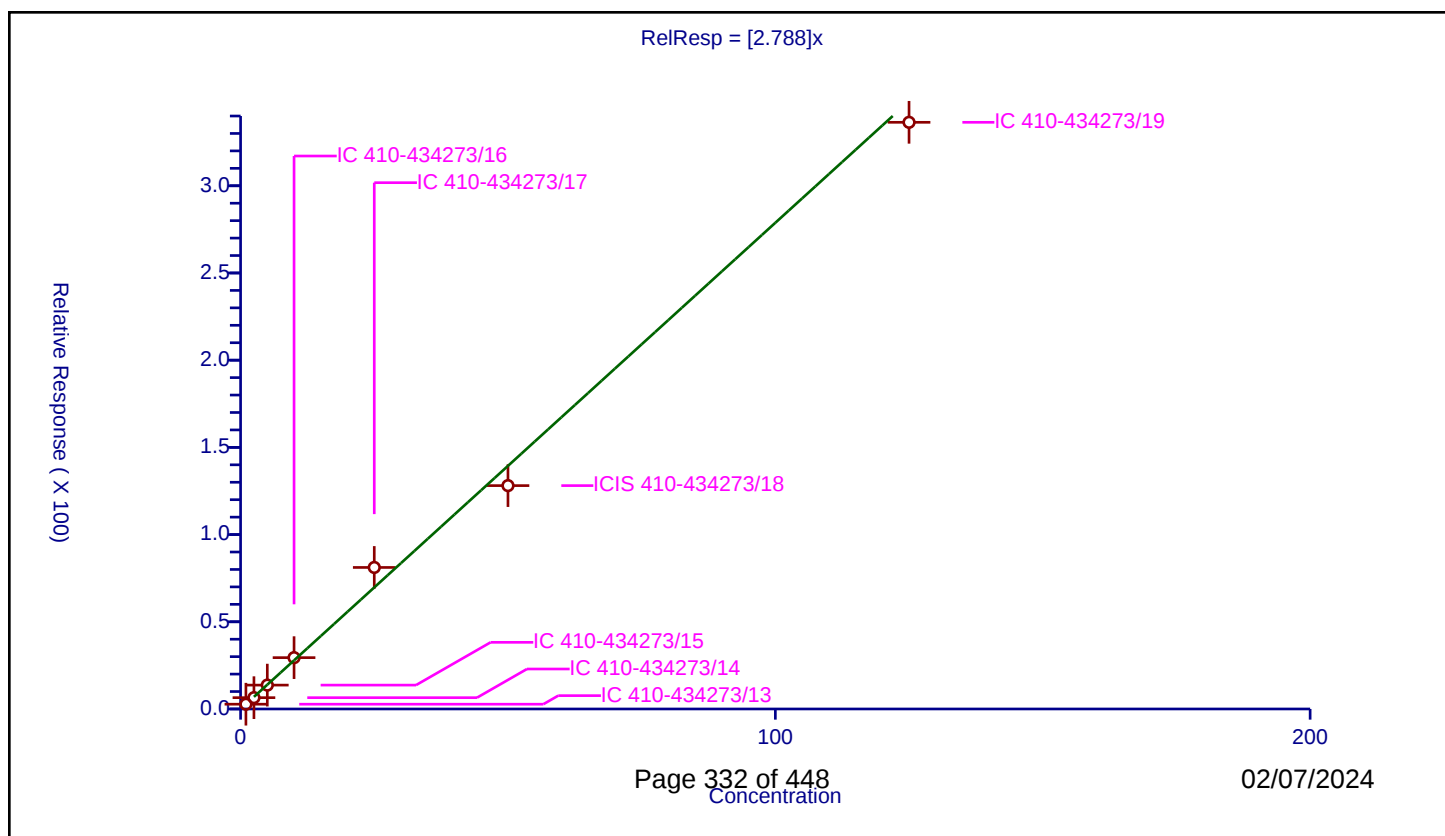
Curve Coefficients

Intercept: 0
Slope: 2.788

Error Coefficients

Standard Error: 546000
Relative Standard Error: 8.5
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	1.0	2.737924	50.0	135285.0	2.737924	Y
2	IC 410-434273/14	2.5	6.494694	50.0	152001.0	2.597878	Y
3	IC 410-434273/15	5.0	13.686812	50.0	149118.0	2.737362	Y
4	IC 410-434273/16	10.0	29.438147	50.0	145821.0	2.943815	Y
5	IC 410-434273/17	25.0	81.149159	50.0	141312.0	3.245966	Y
6	ICIS 410-434273/18	50.0	128.073262	50.0	179329.0	2.561465	Y
7	IC 410-434273/19	125.0	336.386789	50.0	183175.0	2.691094	Y



Calibration

/ 1-Bromo-2-chloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

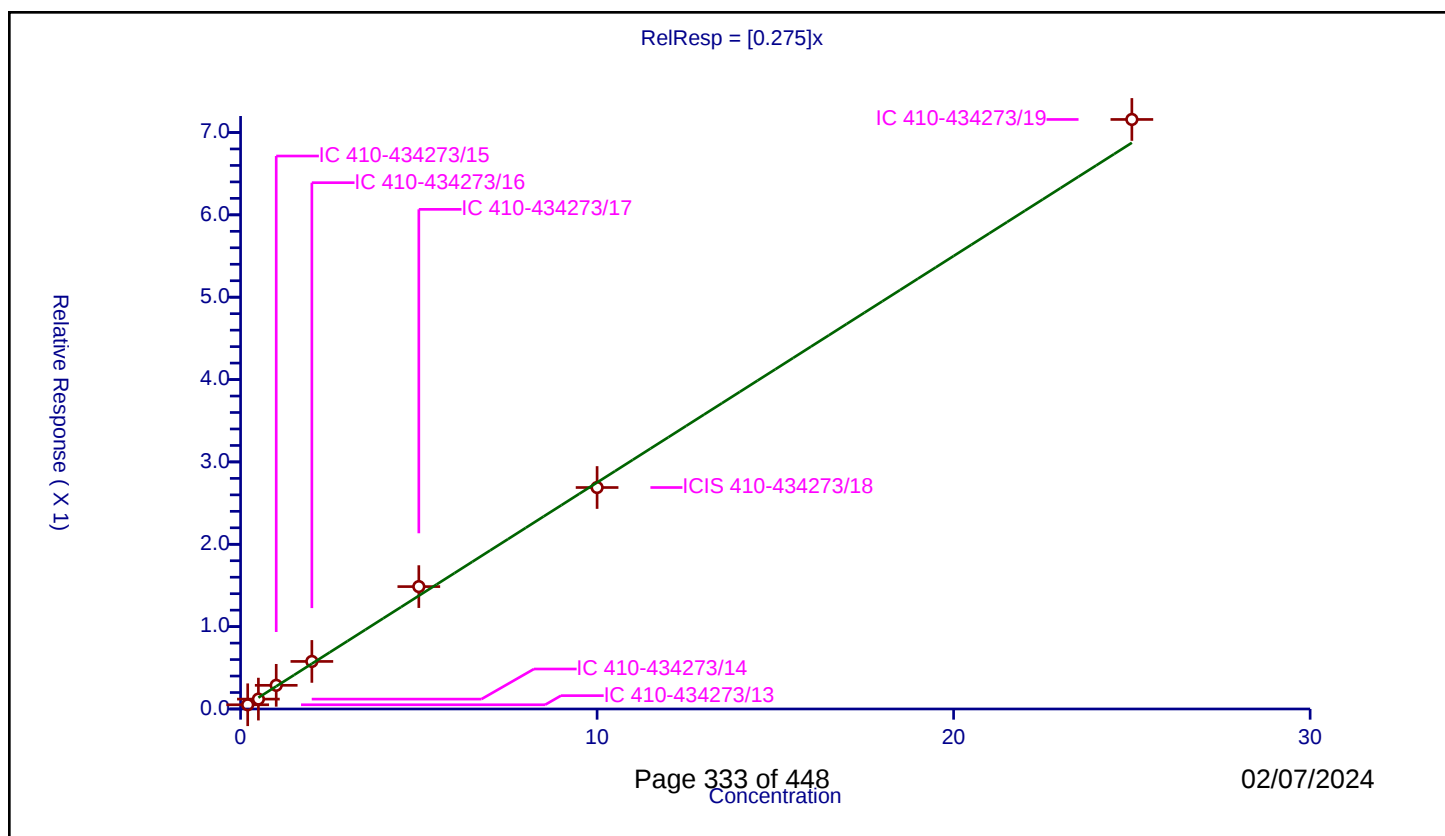
Curve Coefficients

Intercept: 0
Slope: 0.275

Error Coefficients

Standard Error: 600000
Relative Standard Error: 7.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.051333	10.0	1676893.0	0.256665	Y
2	IC 410-434273/14	0.5	0.119869	10.0	1823738.0	0.239738	Y
3	IC 410-434273/15	1.0	0.287474	10.0	1679039.0	0.287474	Y
4	IC 410-434273/16	2.0	0.577353	10.0	1680409.0	0.288677	Y
5	IC 410-434273/17	5.0	1.486148	10.0	1736785.0	0.29723	Y
6	ICIS 410-434273/18	10.0	2.689142	10.0	1932713.0	0.268914	Y
7	IC 410-434273/19	25.0	7.158145	10.0	1880198.0	0.286326	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

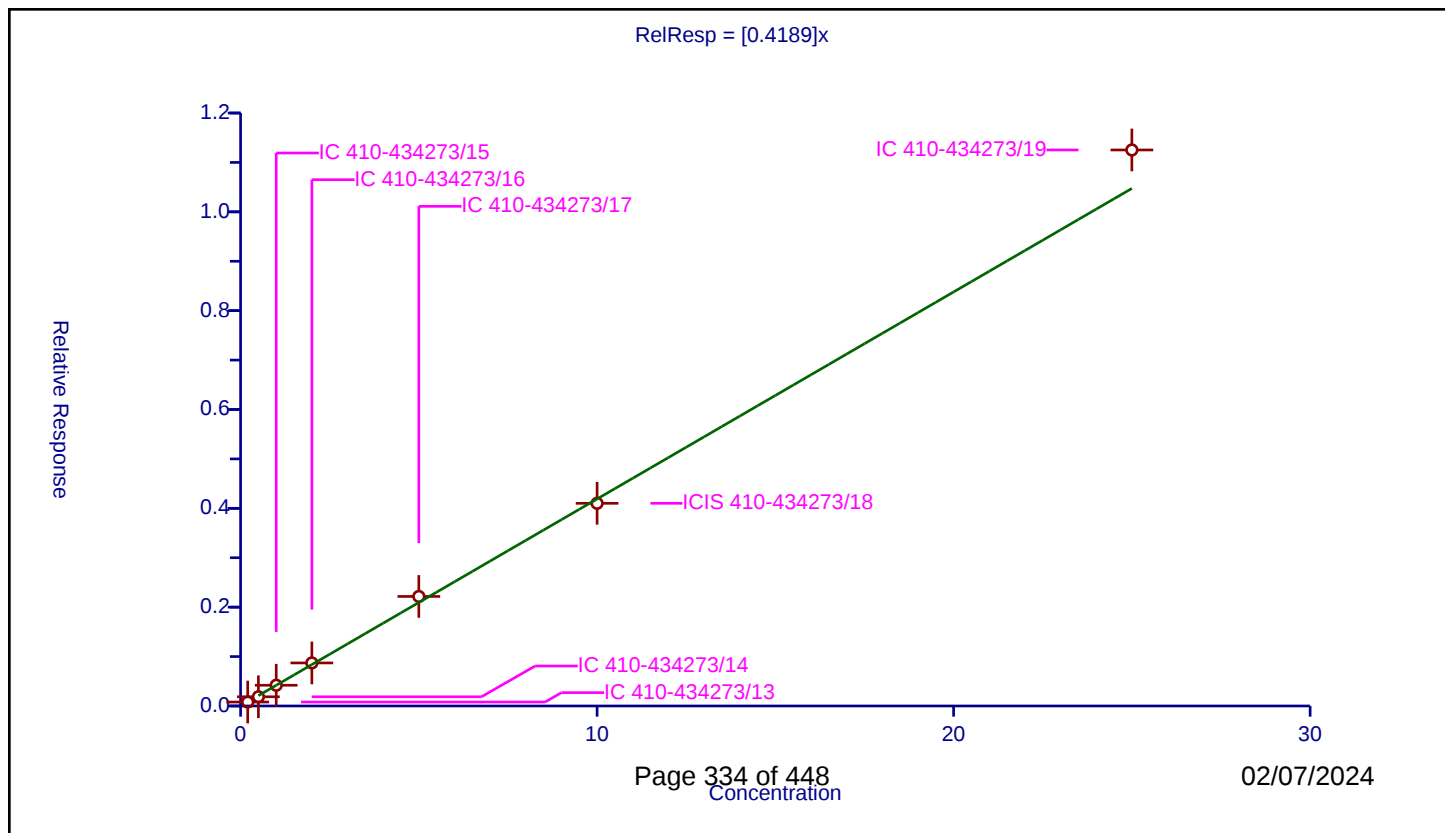
Curve Coefficients

Intercept: 0
Slope: 0.4189

Error Coefficients

Standard Error: 938000
Relative Standard Error: 6.4
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.080101	10.0	1676893.0	0.400503	Y
2	IC 410-434273/14	0.5	0.186595	10.0	1823738.0	0.37319	Y
3	IC 410-434273/15	1.0	0.419698	10.0	1679039.0	0.419698	Y
4	IC 410-434273/16	2.0	0.87124	10.0	1680409.0	0.43562	Y
5	IC 410-434273/17	5.0	2.216417	10.0	1736785.0	0.443283	Y
6	ICIS 410-434273/18	10.0	4.10153	10.0	1932713.0	0.410153	Y
7	IC 410-434273/19	25.0	11.252113	10.0	1880198.0	0.450085	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

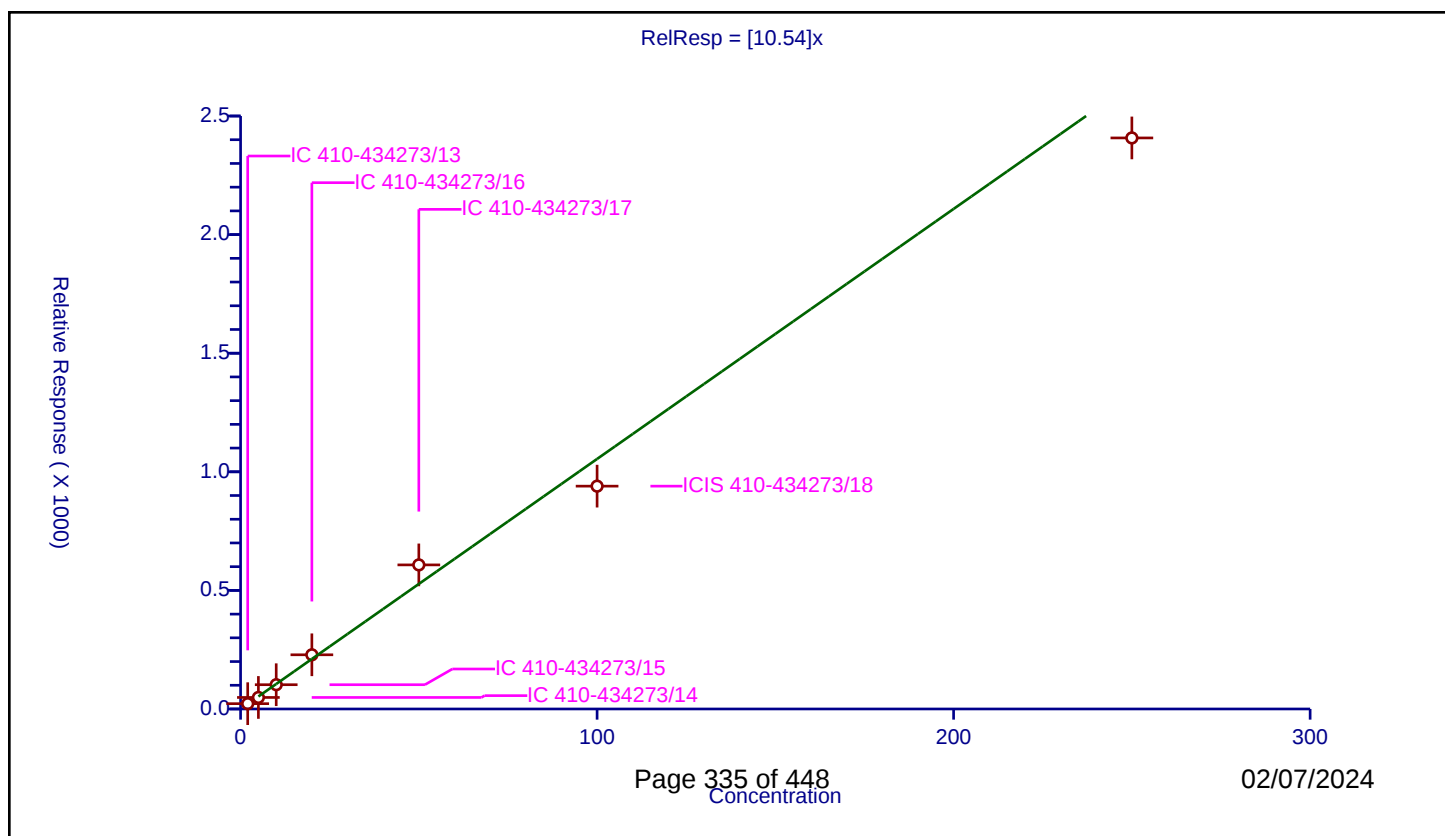
Curve Coefficients

Intercept: 0
Slope: 10.54

Error Coefficients

Standard Error: 3930000
Relative Standard Error: 10.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	2.0	22.462949	50.0	135285.0	11.231474	Y
2	IC 410-434273/14	5.0	48.62172	50.0	152001.0	9.724344	Y
3	IC 410-434273/15	10.0	102.336405	50.0	149118.0	10.23364	Y
4	IC 410-434273/16	20.0	228.498639	50.0	145821.0	11.424932	Y
5	IC 410-434273/17	50.0	607.496179	50.0	141312.0	12.149924	Y
6	ICIS 410-434273/18	100.0	939.469913	50.0	179329.0	9.394699	Y
7	IC 410-434273/19	250.0	2407.534871	50.0	183175.0	9.630139	Y



Calibration

/ Toluene-d8 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

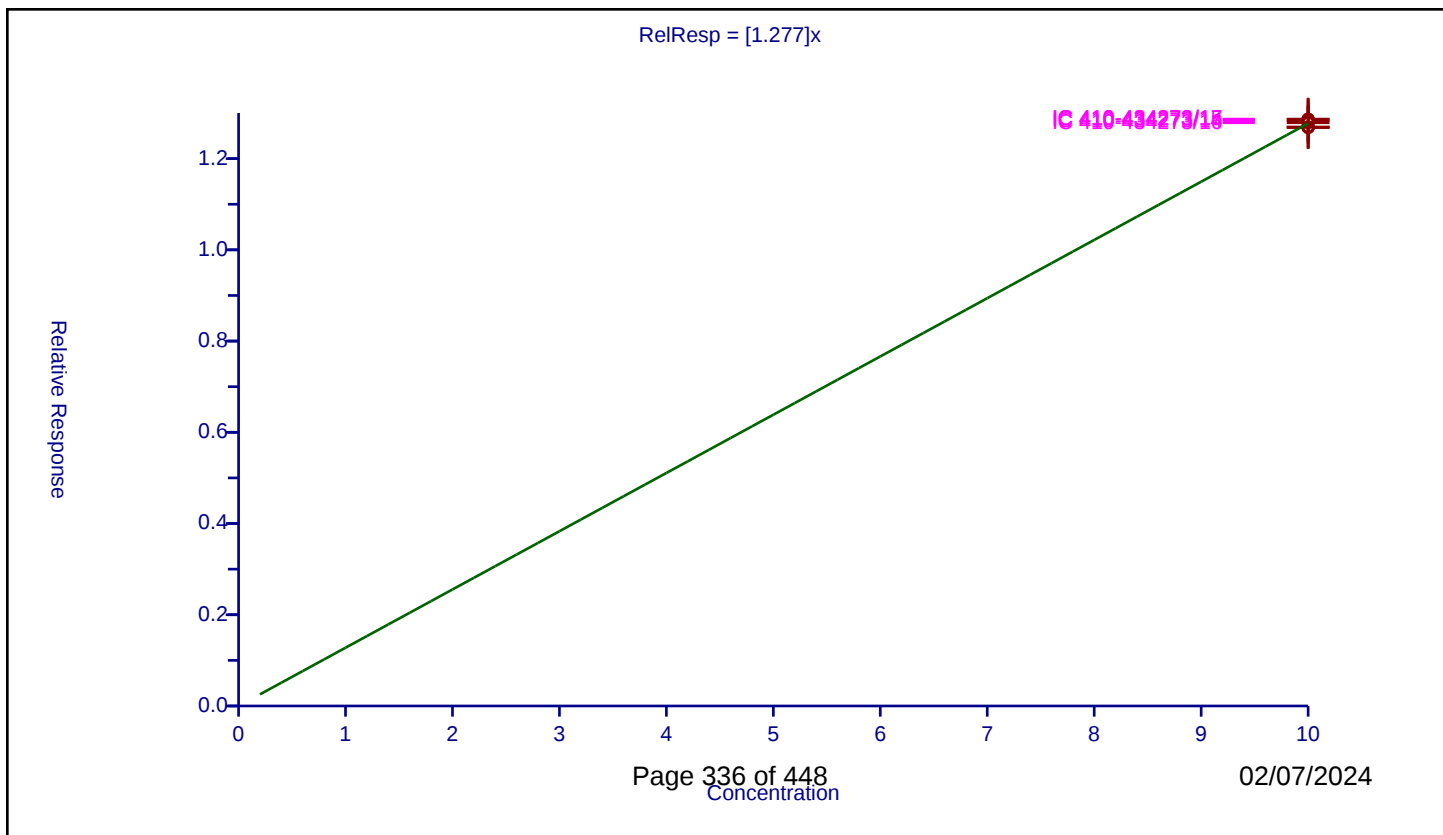
Curve Coefficients

Intercept: 0
 Slope: 1.277

Error Coefficients

Standard Error: 1960000
 Relative Standard Error: 0.6
 Correlation Coefficient: 0.00000000000000000000
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	10.0	12.689598	10.0	1334493.0	1.26896	Y
2	IC 410-434273/14	10.0	12.826757	10.0	1450931.0	1.282676	Y
3	IC 410-434273/15	10.0	12.855436	10.0	1325766.0	1.285544	Y
4	IC 410-434273/16	10.0	12.786859	10.0	1340355.0	1.278686	Y
5	IC 410-434273/17	10.0	12.866718	10.0	1388218.0	1.286672	Y
6	ICIS 410-434273/18	10.0	12.691272	10.0	1559233.0	1.269127	Y
7	IC 410-434273/19	10.0	12.681667	10.0	1524134.0	1.268167	Y



Calibration

/ Toluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

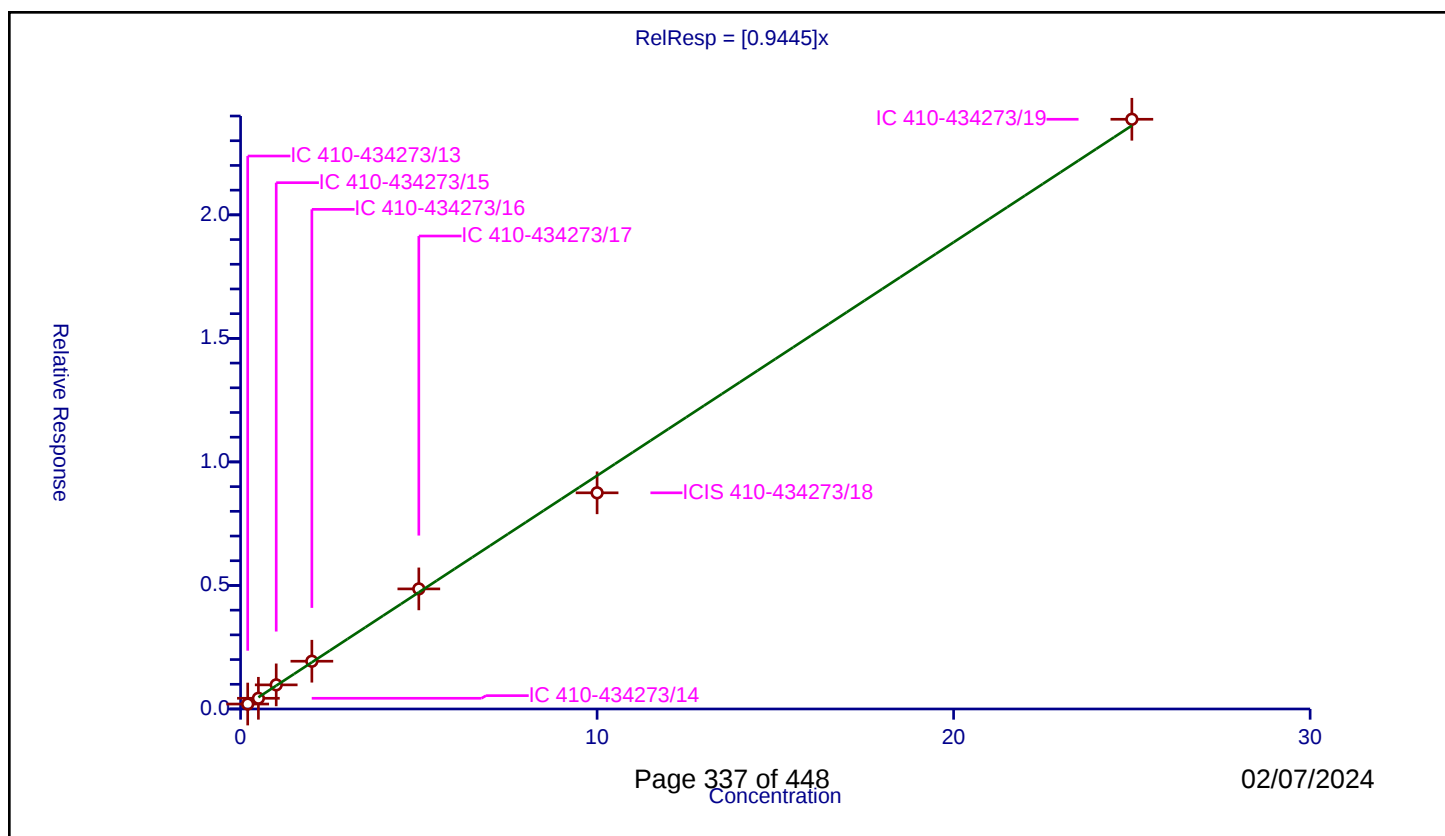
Curve Coefficients

Intercept: 0
Slope: 0.9445

Error Coefficients

Standard Error: 1610000
Relative Standard Error: 5.5
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.199821	10.0	1334493.0	0.999106	Y
2	IC 410-434273/14	0.5	0.433501	10.0	1450931.0	0.867002	Y
3	IC 410-434273/15	1.0	0.976681	10.0	1325766.0	0.976681	Y
4	IC 410-434273/16	2.0	1.933786	10.0	1340355.0	0.966893	Y
5	IC 410-434273/17	5.0	4.860202	10.0	1388218.0	0.97204	Y
6	ICIS 410-434273/18	10.0	8.749578	10.0	1559233.0	0.874958	Y
7	IC 410-434273/19	25.0	23.868472	10.0	1524134.0	0.954739	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

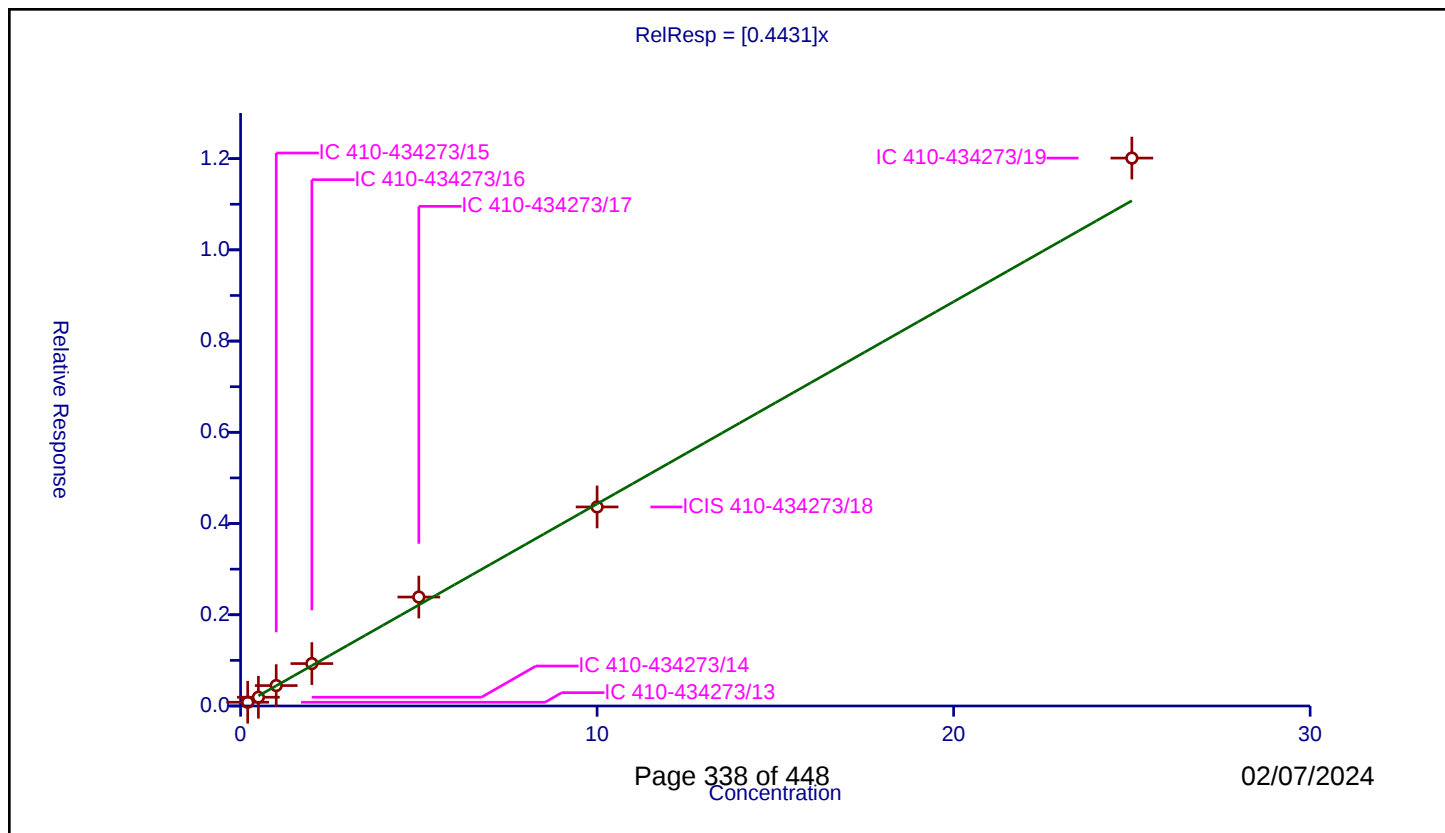
Curve Coefficients

Intercept: 0
Slope: 0.4431

Error Coefficients

Standard Error: 811000
Relative Standard Error: 8.1
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.082084	10.0	1334493.0	0.410418	Y
2	IC 410-434273/14	0.5	0.192111	10.0	1450931.0	0.384222	Y
3	IC 410-434273/15	1.0	0.447711	10.0	1325766.0	0.447711	Y
4	IC 410-434273/16	2.0	0.929903	10.0	1340355.0	0.464951	Y
5	IC 410-434273/17	5.0	2.388407	10.0	1388218.0	0.477681	Y
6	ICIS 410-434273/18	10.0	4.363735	10.0	1559233.0	0.436374	Y
7	IC 410-434273/19	25.0	12.011982	10.0	1524134.0	0.480479	Y



Calibration

/ Ethyl methacrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

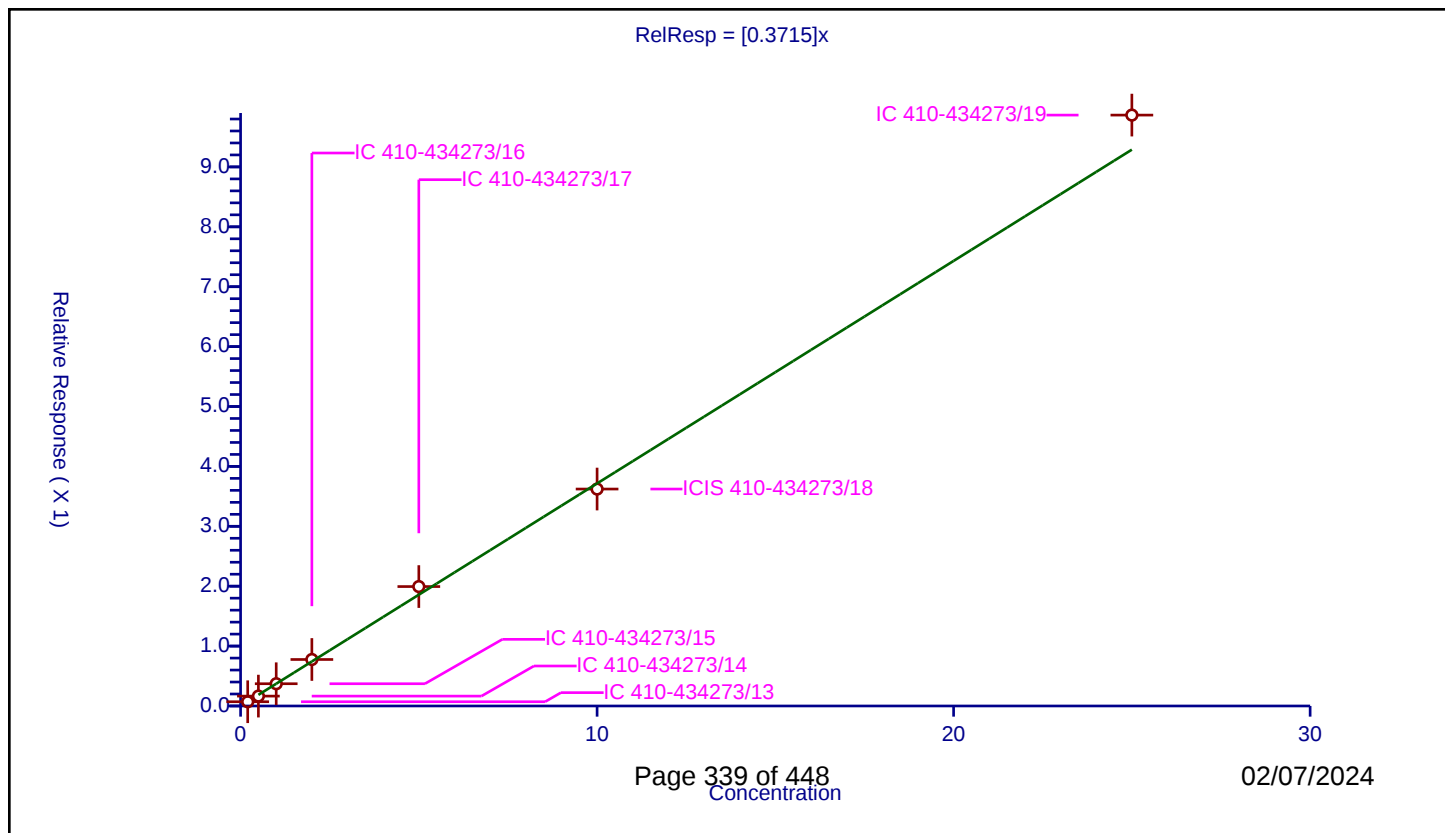
Curve Coefficients

Intercept: 0
 Slope: 0.3715

Error Coefficients

Standard Error: 667000
 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 410-434273/13	0.2	0.071076	10.0	1334493.0	0.355378	Y
2	IC 410-434273/14	0.5	0.165108	10.0	1450931.0	0.330216	Y
3	IC 410-434273/15	1.0	0.371498	10.0	1325766.0	0.371498	Y
4	IC 410-434273/16	2.0	0.776123	10.0	1340355.0	0.388061	Y
5	IC 410-434273/17	5.0	1.99393	10.0	1388218.0	0.398786	Y
6	ICIS 410-434273/18	10.0	3.621832	10.0	1559233.0	0.362183	Y
7	IC 410-434273/19	25.0	9.865373	10.0	1524134.0	0.394615	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

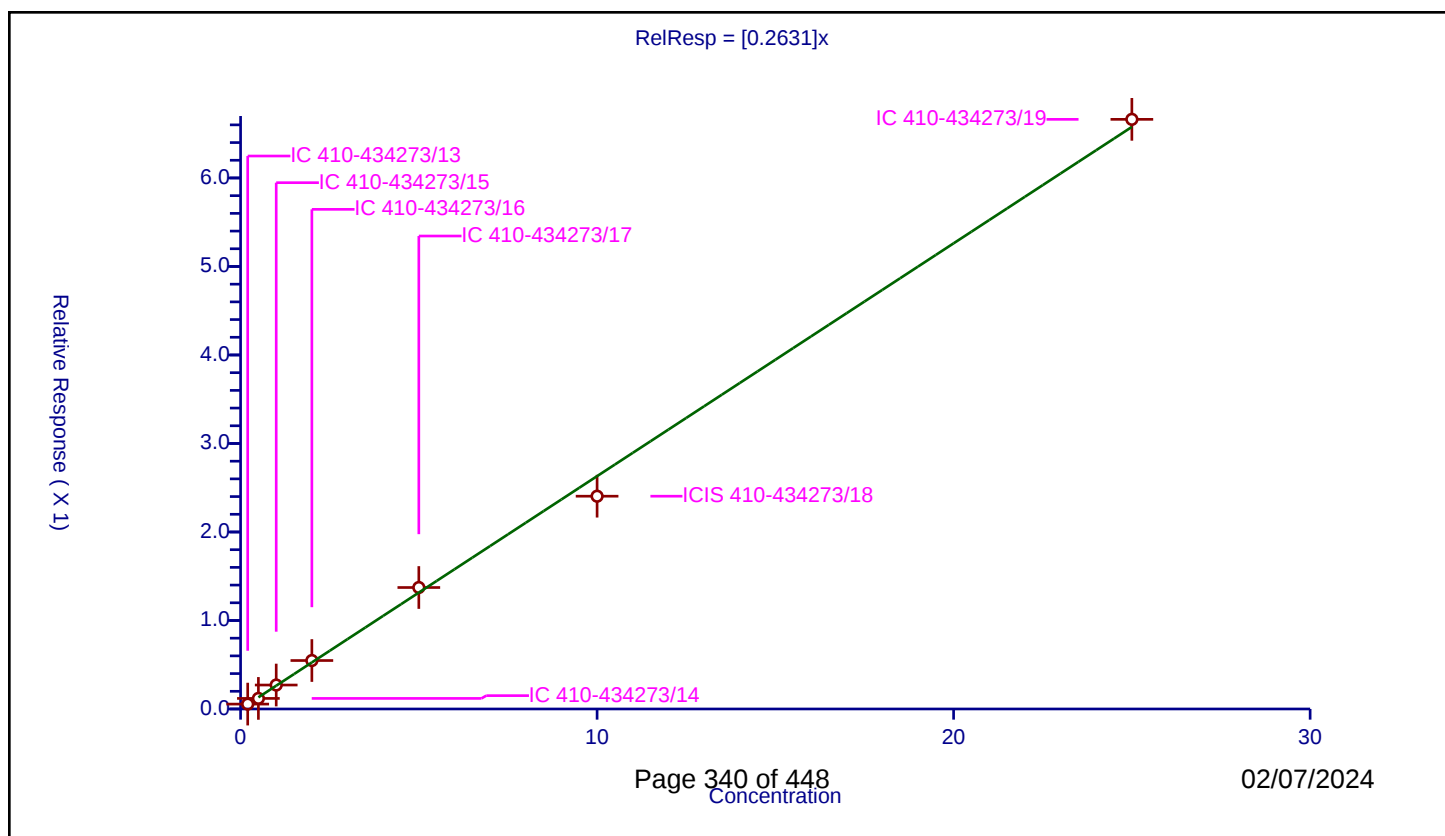
Curve Coefficients

Intercept: 0
Slope: 0.2631

Error Coefficients

Standard Error: 450000
Relative Standard Error: 6.2
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.055324	10.0	1334493.0	0.276622	Y
2	IC 410-434273/14	0.5	0.119392	10.0	1450931.0	0.238785	Y
3	IC 410-434273/15	1.0	0.27087	10.0	1325766.0	0.27087	Y
4	IC 410-434273/16	2.0	0.547609	10.0	1340355.0	0.273804	Y
5	IC 410-434273/17	5.0	1.372457	10.0	1388218.0	0.274491	Y
6	ICIS 410-434273/18	10.0	2.40433	10.0	1559233.0	0.240433	Y
7	IC 410-434273/19	25.0	6.662282	10.0	1524134.0	0.266491	Y



Calibration

/ Tetrachloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

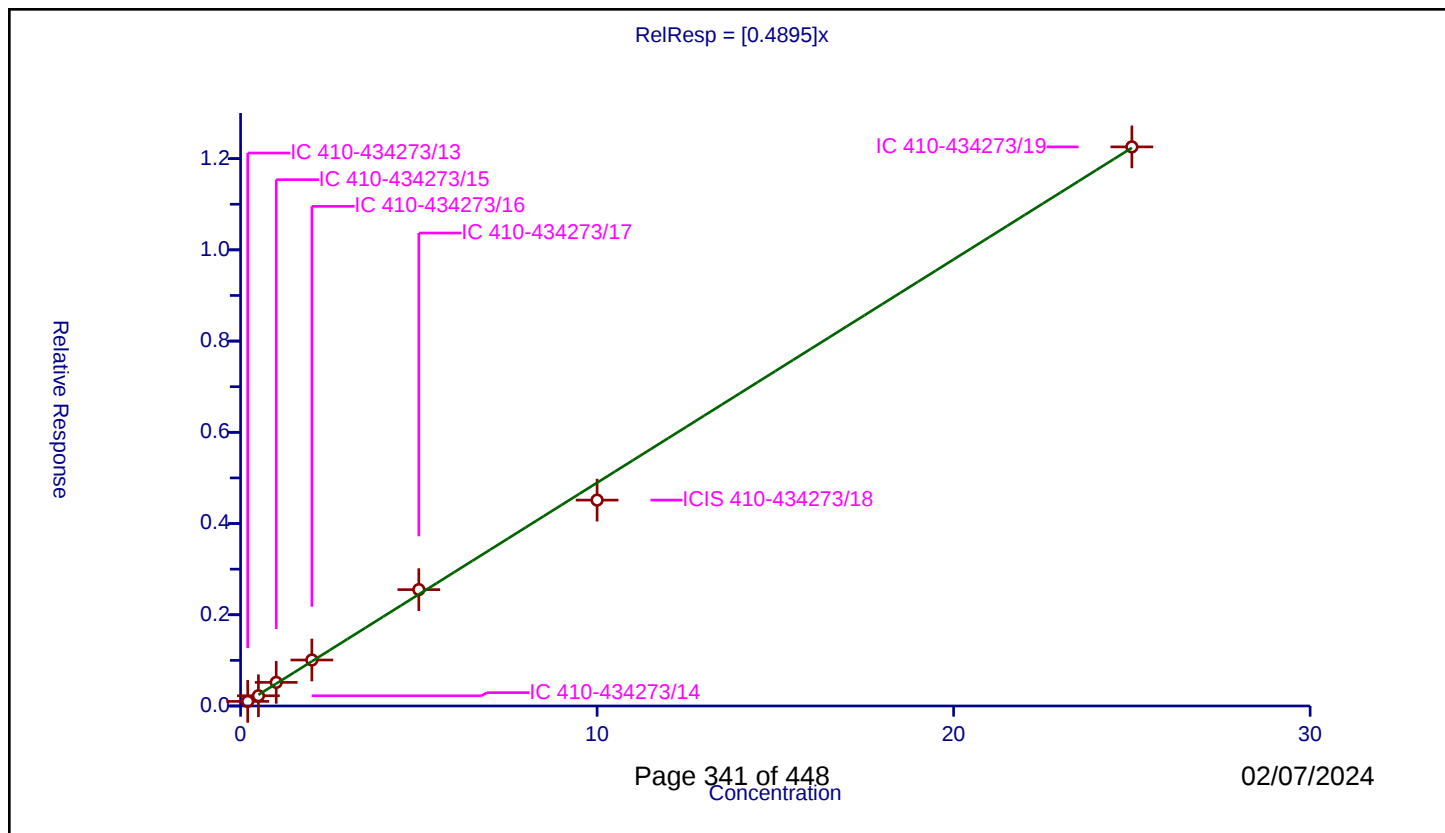
Curve Coefficients

Intercept: 0
 Slope: 0.4895

Error Coefficients

Standard Error: 830000
 Relative Standard Error: 5.8
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.100885	10.0	1334493.0	0.504424	Y
2	IC 410-434273/14	0.5	0.22416	10.0	1450931.0	0.448319	Y
3	IC 410-434273/15	1.0	0.51764	10.0	1325766.0	0.51764	Y
4	IC 410-434273/16	2.0	1.00827	10.0	1340355.0	0.504135	Y
5	IC 410-434273/17	5.0	2.550767	10.0	1388218.0	0.510153	Y
6	ICIS 410-434273/18	10.0	4.513738	10.0	1559233.0	0.451374	Y
7	IC 410-434273/19	25.0	12.257485	10.0	1524134.0	0.490299	Y



Calibration

/ 1,3-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

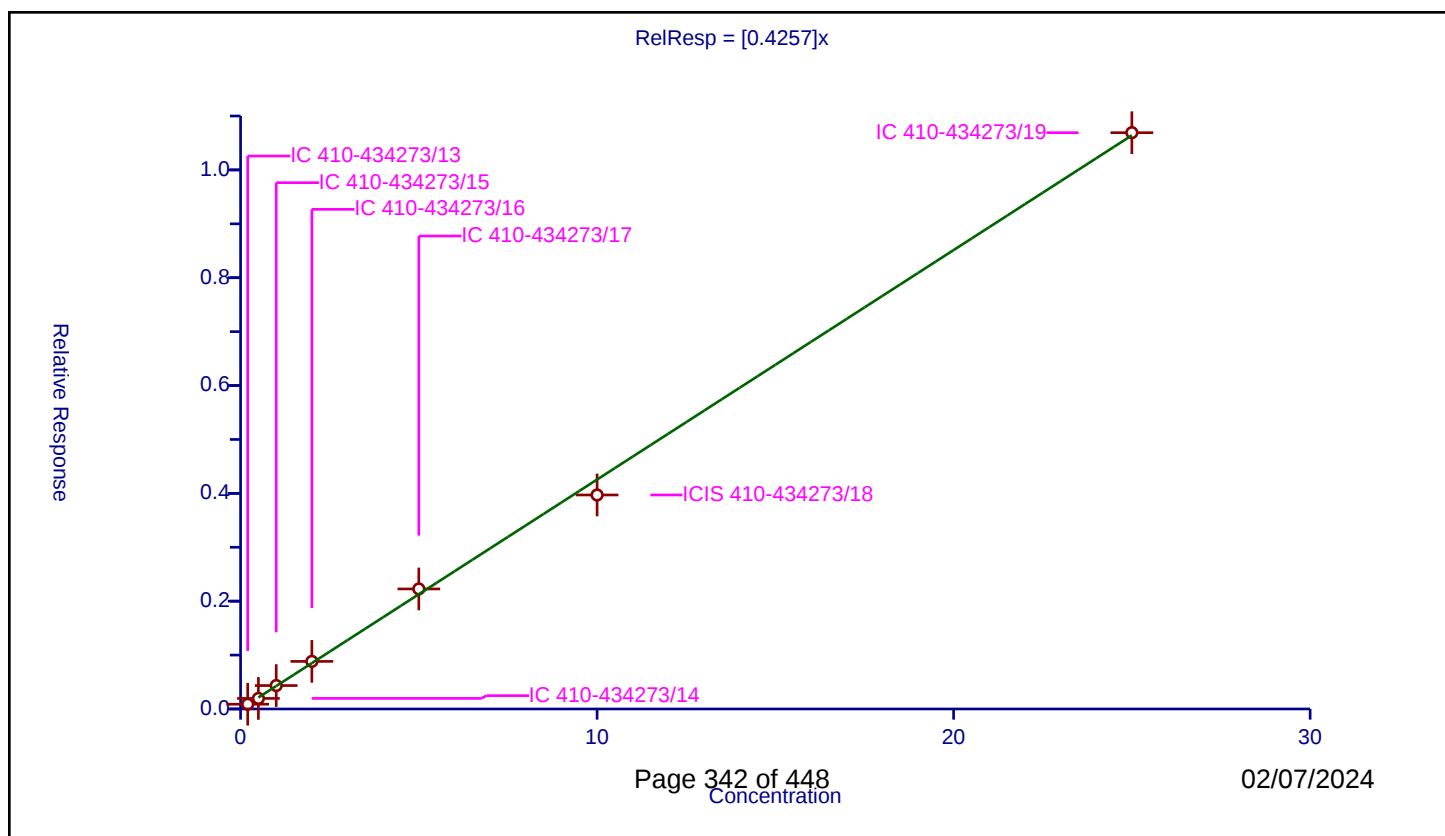
Curve Coefficients

Intercept: 0
Slope: 0.4257

Error Coefficients

Standard Error: 725000
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 410-434273/13	0.2	0.088356	10.0	1334493.0	0.441778	Y
2	IC 410-434273/14	0.5	0.195964	10.0	1450931.0	0.391928	Y
3	IC 410-434273/15	1.0	0.434405	10.0	1325766.0	0.434405	Y
4	IC 410-434273/16	2.0	0.882871	10.0	1340355.0	0.441435	Y
5	IC 410-434273/17	5.0	2.226927	10.0	1388218.0	0.445385	Y
6	ICIS 410-434273/18	10.0	3.970285	10.0	1559233.0	0.397029	Y
7	IC 410-434273/19	25.0	10.690884	10.0	1524134.0	0.427635	Y



Calibration

/ 2-Hexanone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

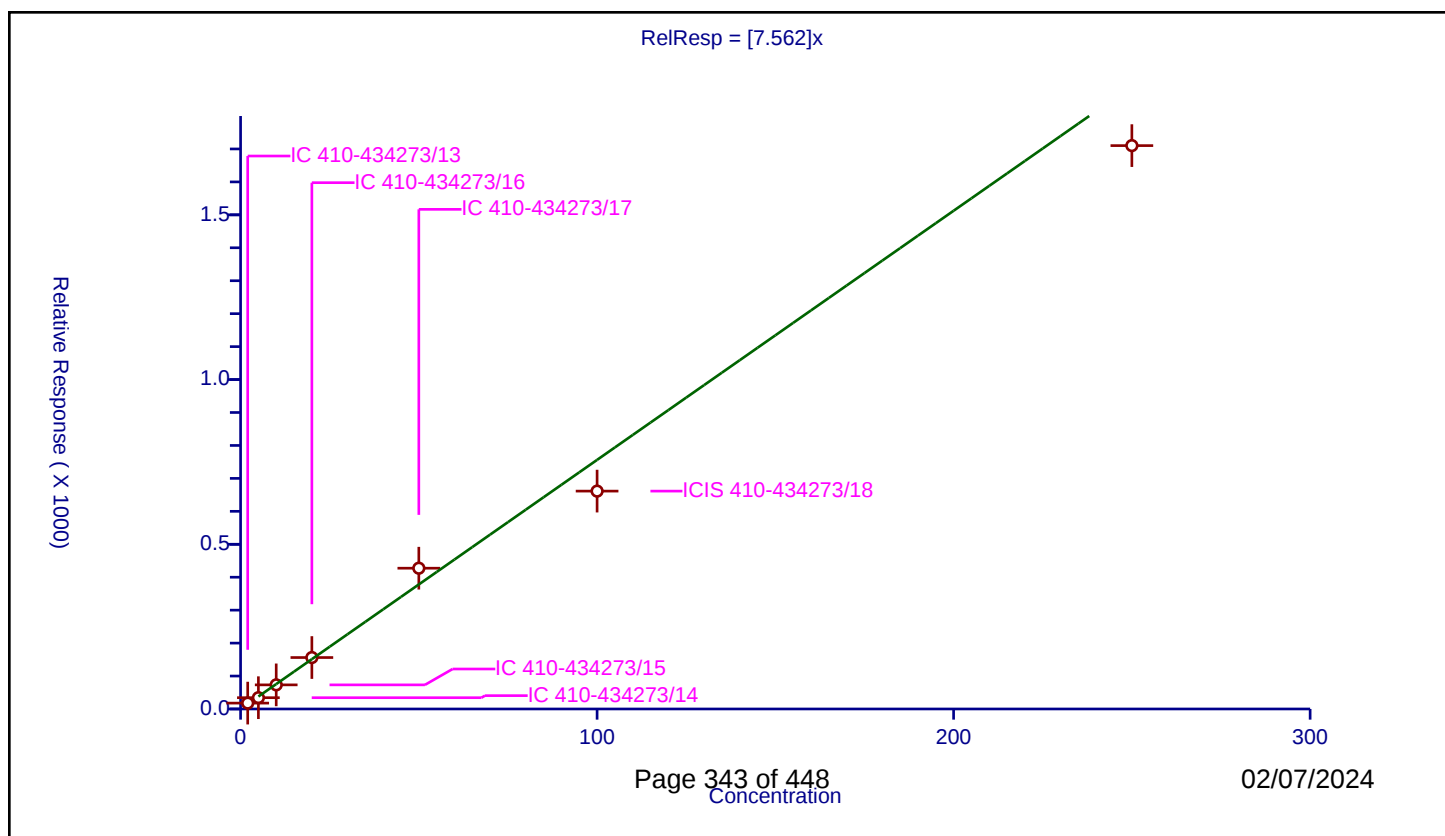
Curve Coefficients

Intercept: 0
Slope: 7.562

Error Coefficients

Standard Error: 2790000
Relative Standard Error: 11.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	2.0	17.874118	50.0	135285.0	8.937059	Y
2	IC 410-434273/14	5.0	34.319182	50.0	152001.0	6.863836	Y
3	IC 410-434273/15	10.0	73.224896	50.0	149118.0	7.32249	Y
4	IC 410-434273/16	20.0	156.155149	50.0	145821.0	7.807757	Y
5	IC 410-434273/17	50.0	427.371702	50.0	141312.0	8.547434	Y
6	ICIS 410-434273/18	100.0	661.363193	50.0	179329.0	6.613632	Y
7	IC 410-434273/19	250.0	1710.164597	50.0	183175.0	6.840658	Y



Calibration

/ Chlorodibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

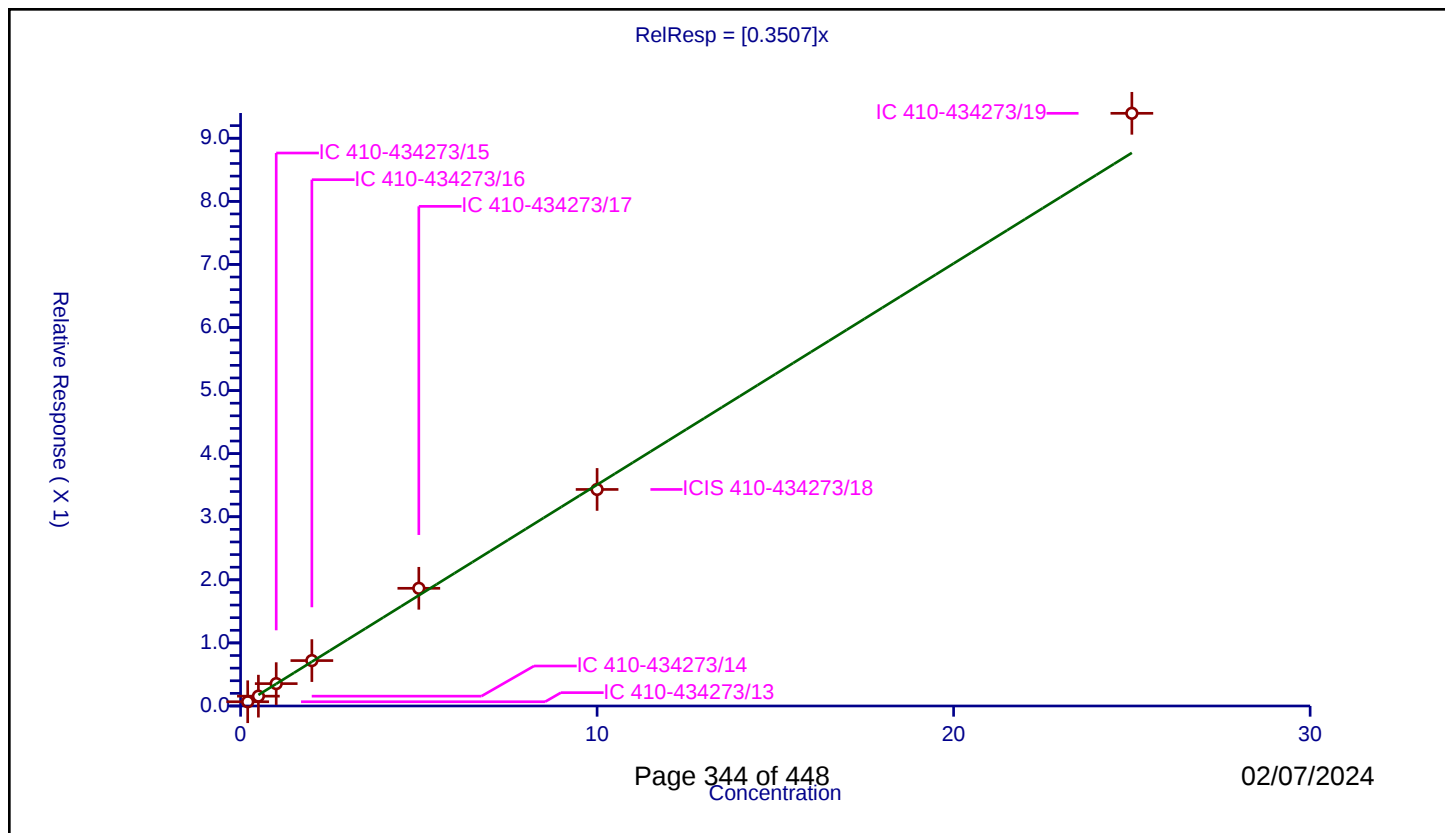
Curve Coefficients

Intercept: 0
Slope: 0.3507

Error Coefficients

Standard Error: 635000
Relative Standard Error: 6.4
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.067314	10.0	1334493.0	0.33657	Y
2	IC 410-434273/14	0.5	0.155969	10.0	1450931.0	0.311938	Y
3	IC 410-434273/15	1.0	0.354512	10.0	1325766.0	0.354512	Y
4	IC 410-434273/16	2.0	0.719668	10.0	1340355.0	0.359834	Y
5	IC 410-434273/17	5.0	1.865824	10.0	1388218.0	0.373165	Y
6	ICIS 410-434273/18	10.0	3.43297	10.0	1559233.0	0.343297	Y
7	IC 410-434273/19	25.0	9.395421	10.0	1524134.0	0.375817	Y



Calibration

/ Ethylene Dibromide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

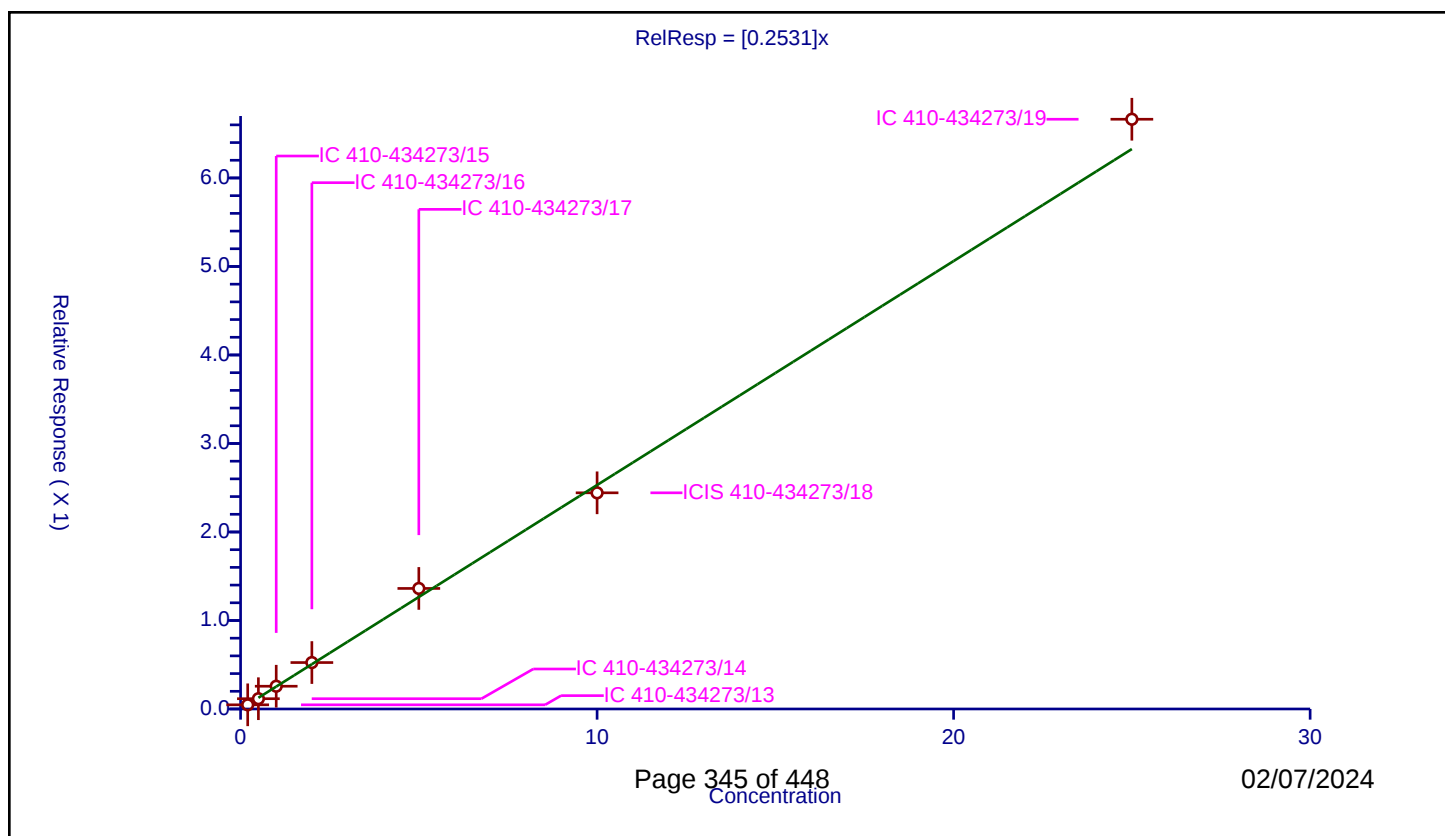
Curve Coefficients

Intercept: 0
Slope: 0.2531

Error Coefficients

Standard Error: 451000
Relative Standard Error: 6.1
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.047254	10.0	1334493.0	0.23627	Y
2	IC 410-434273/14	0.5	0.116194	10.0	1450931.0	0.232389	Y
3	IC 410-434273/15	1.0	0.257202	10.0	1325766.0	0.257202	Y
4	IC 410-434273/16	2.0	0.524816	10.0	1340355.0	0.262408	Y
5	IC 410-434273/17	5.0	1.361991	10.0	1388218.0	0.272398	Y
6	ICIS 410-434273/18	10.0	2.442387	10.0	1559233.0	0.244239	Y
7	IC 410-434273/19	25.0	6.663686	10.0	1524134.0	0.266547	Y



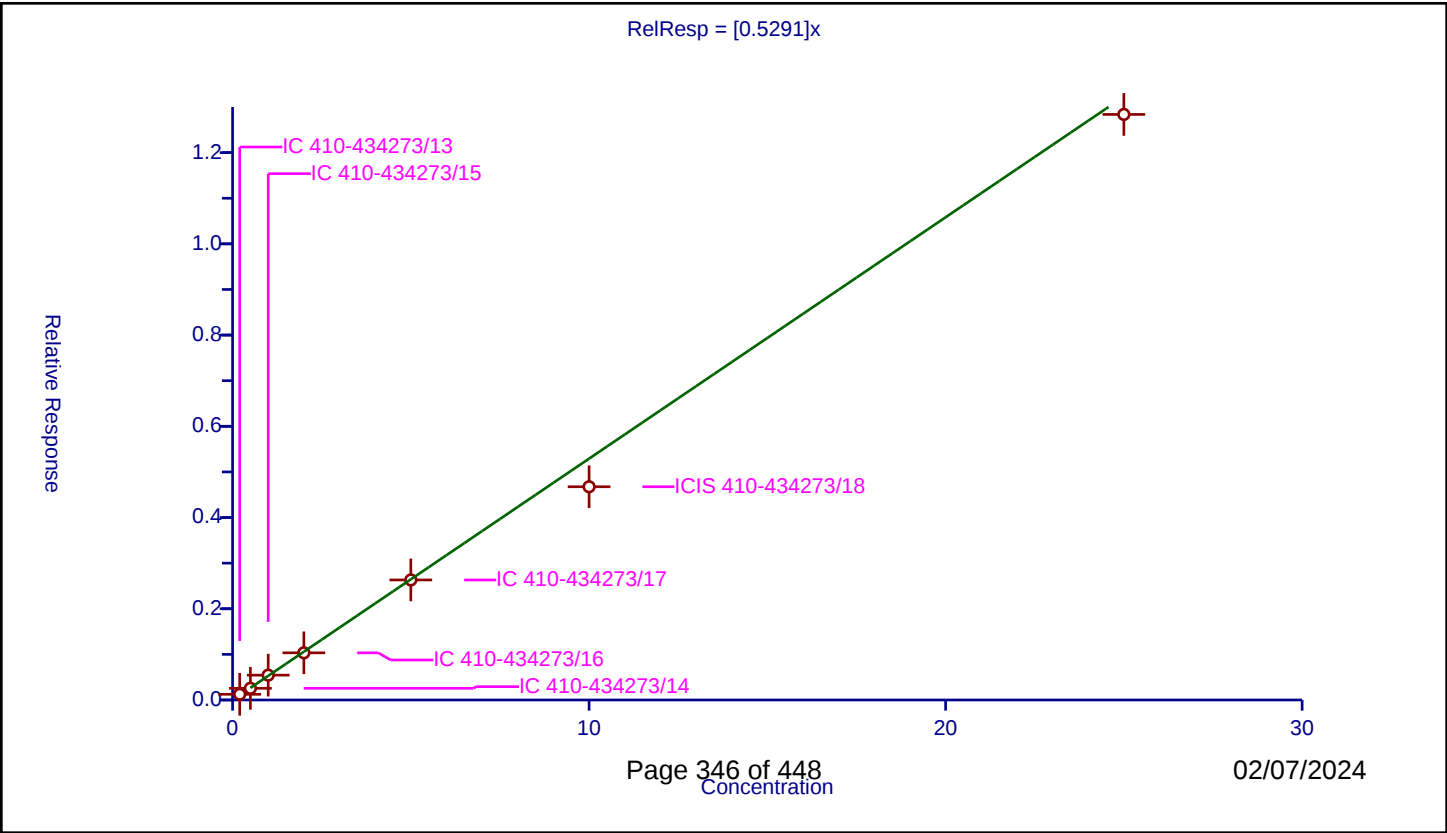
Calibration

/ 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:	0.5291
Error Coefficients	
Standard Error:	868000
Relative Standard Error:	9.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.124534	10.0	1334493.0	0.622671	Y
2	IC 410-434273/14	0.5	0.256077	10.0	1450931.0	0.512154	Y
3	IC 410-434273/15	1.0	0.544629	10.0	1325766.0	0.544629	Y
4	IC 410-434273/16	2.0	1.034032	10.0	1340355.0	0.517016	Y
5	IC 410-434273/17	5.0	2.631798	10.0	1388218.0	0.52636	Y
6	ICIS 410-434273/18	10.0	4.675081	10.0	1559233.0	0.467508	Y
7	IC 410-434273/19	25.0	12.837283	10.0	1524134.0	0.513491	Y



Calibration

/ Chlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

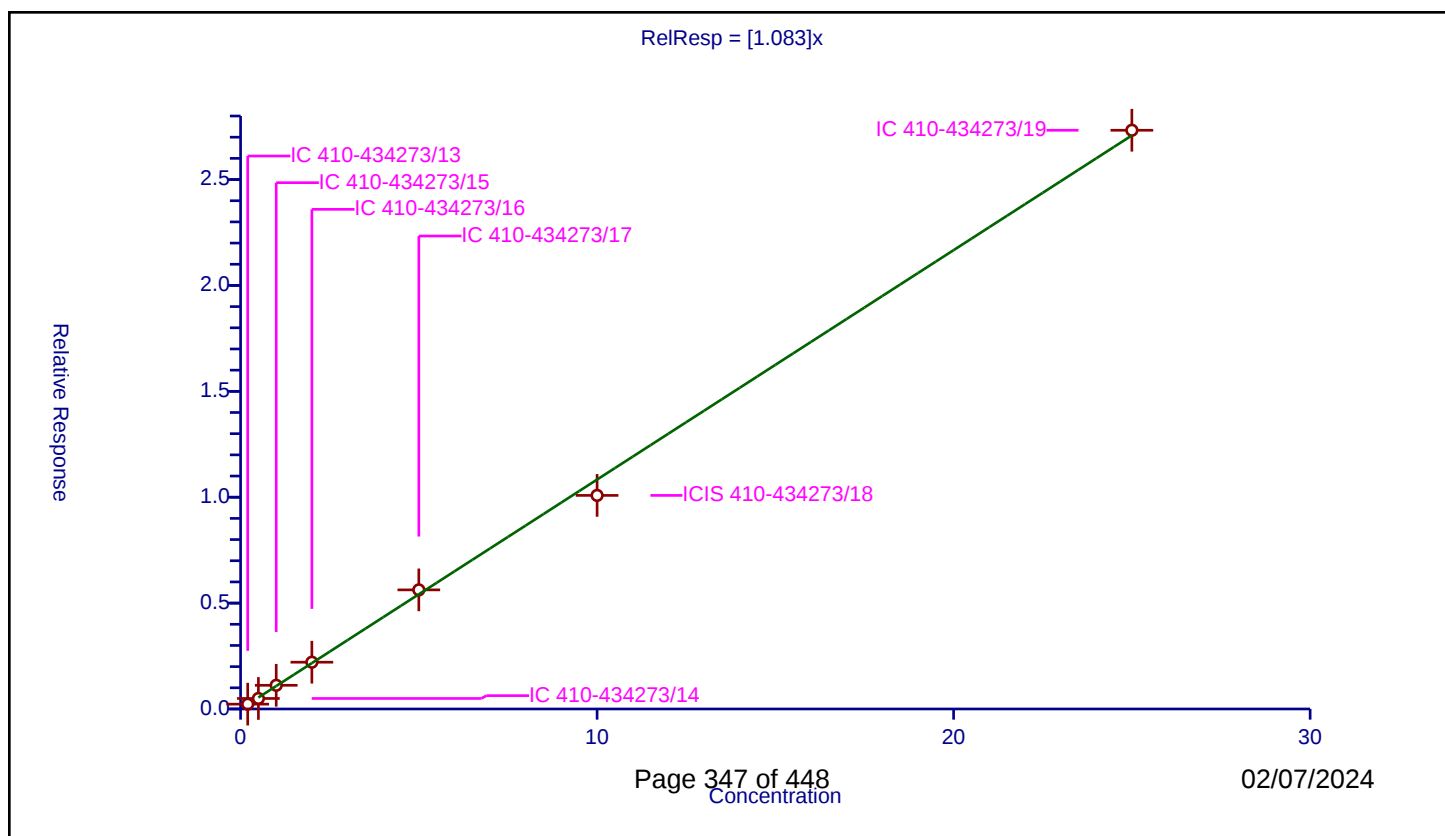
Curve Coefficients

Intercept: 0
Slope: 1.083

Error Coefficients

Standard Error: 1850000
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 410-434273/13	0.2	0.228049	10.0	1334493.0	1.140246	Y
2	IC 410-434273/14	0.5	0.496502	10.0	1450931.0	0.993004	Y
3	IC 410-434273/15	1.0	1.119157	10.0	1325766.0	1.119157	Y
4	IC 410-434273/16	2.0	2.208654	10.0	1340355.0	1.104327	Y
5	IC 410-434273/17	5.0	5.624671	10.0	1388218.0	1.124934	Y
6	ICIS 410-434273/18	10.0	10.085472	10.0	1559233.0	1.008547	Y
7	IC 410-434273/19	25.0	27.327512	10.0	1524134.0	1.0931	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

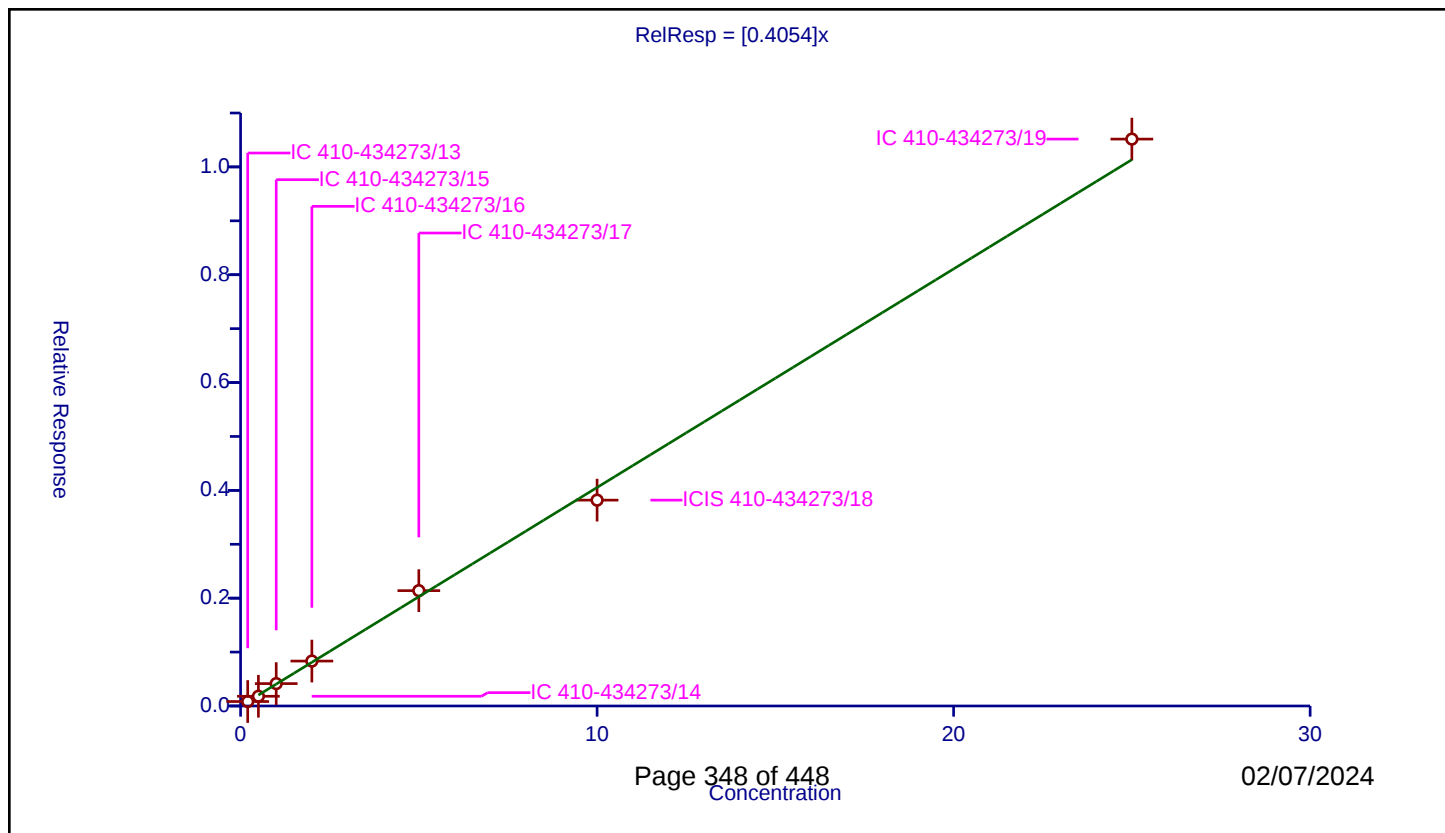
Curve Coefficients

Intercept: 0
Slope: 0.4054

Error Coefficients

Standard Error: 710000
Relative Standard Error: 6.0
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.08293	10.0	1334493.0	0.414652	Y
2	IC 410-434273/14	0.5	0.18036	10.0	1450931.0	0.36072	Y
3	IC 410-434273/15	1.0	0.415088	10.0	1325766.0	0.415088	Y
4	IC 410-434273/16	2.0	0.833391	10.0	1340355.0	0.416696	Y
5	IC 410-434273/17	5.0	2.139505	10.0	1388218.0	0.427901	Y
6	ICIS 410-434273/18	10.0	3.818852	10.0	1559233.0	0.381885	Y
7	IC 410-434273/19	25.0	10.516201	10.0	1524134.0	0.420648	Y



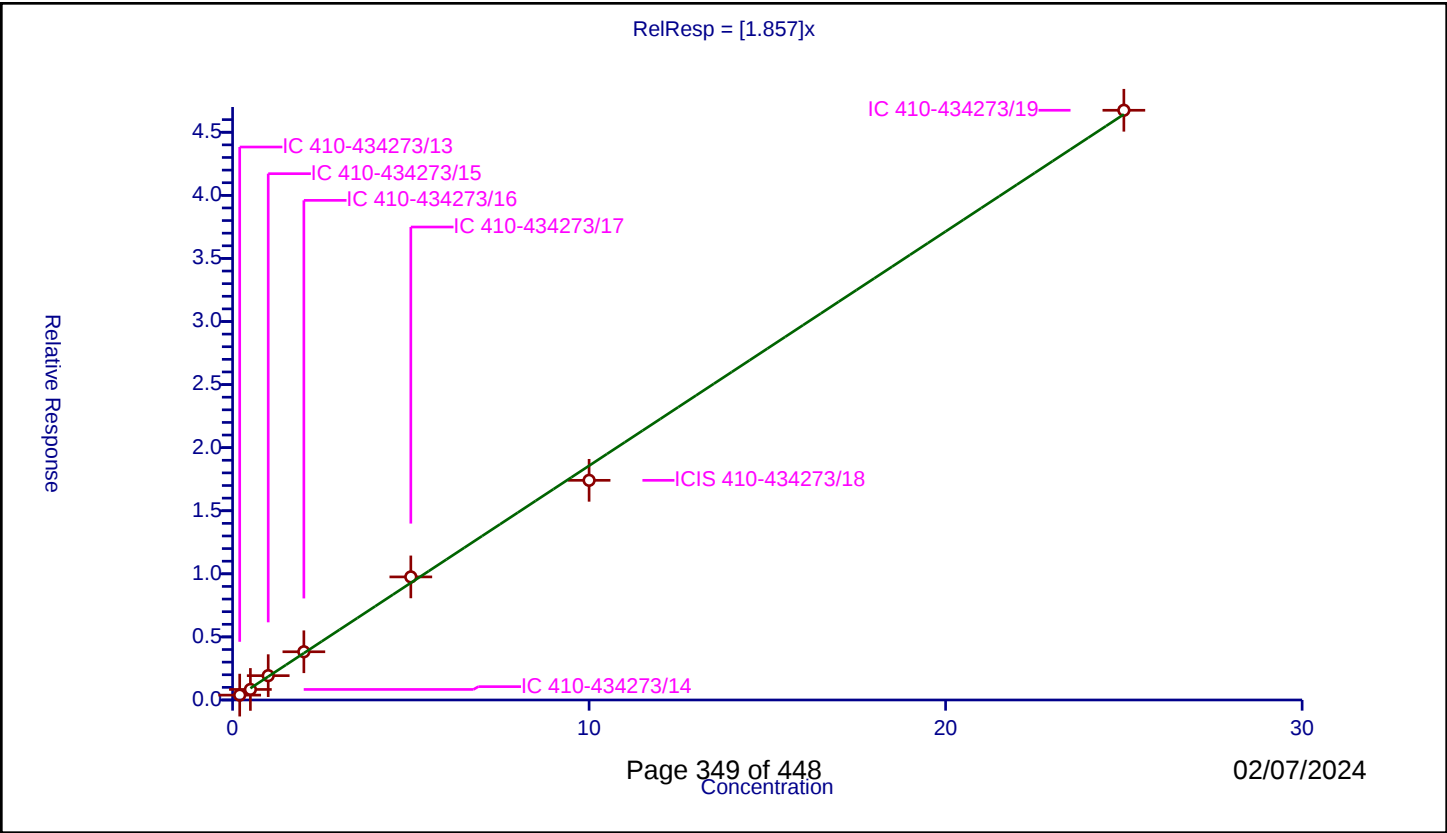
Calibration

/ 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:	1.857
Error Coefficients	
Standard Error:	3170000
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 410-434273/13	0.2	0.385023	10.0	1334493.0	1.925113	Y
2	IC 410-434273/14	0.5	0.835567	10.0	1450931.0	1.671134	Y
3	IC 410-434273/15	1.0	1.928085	10.0	1325766.0	1.928085	Y
4	IC 410-434273/16	2.0	3.822443	10.0	1340355.0	1.911221	Y
5	IC 410-434273/17	5.0	9.755514	10.0	1388218.0	1.951103	Y
6	ICIS 410-434273/18	10.0	17.41208	10.0	1559233.0	1.741208	Y
7	IC 410-434273/19	25.0	46.74274	10.0	1524134.0	1.86971	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

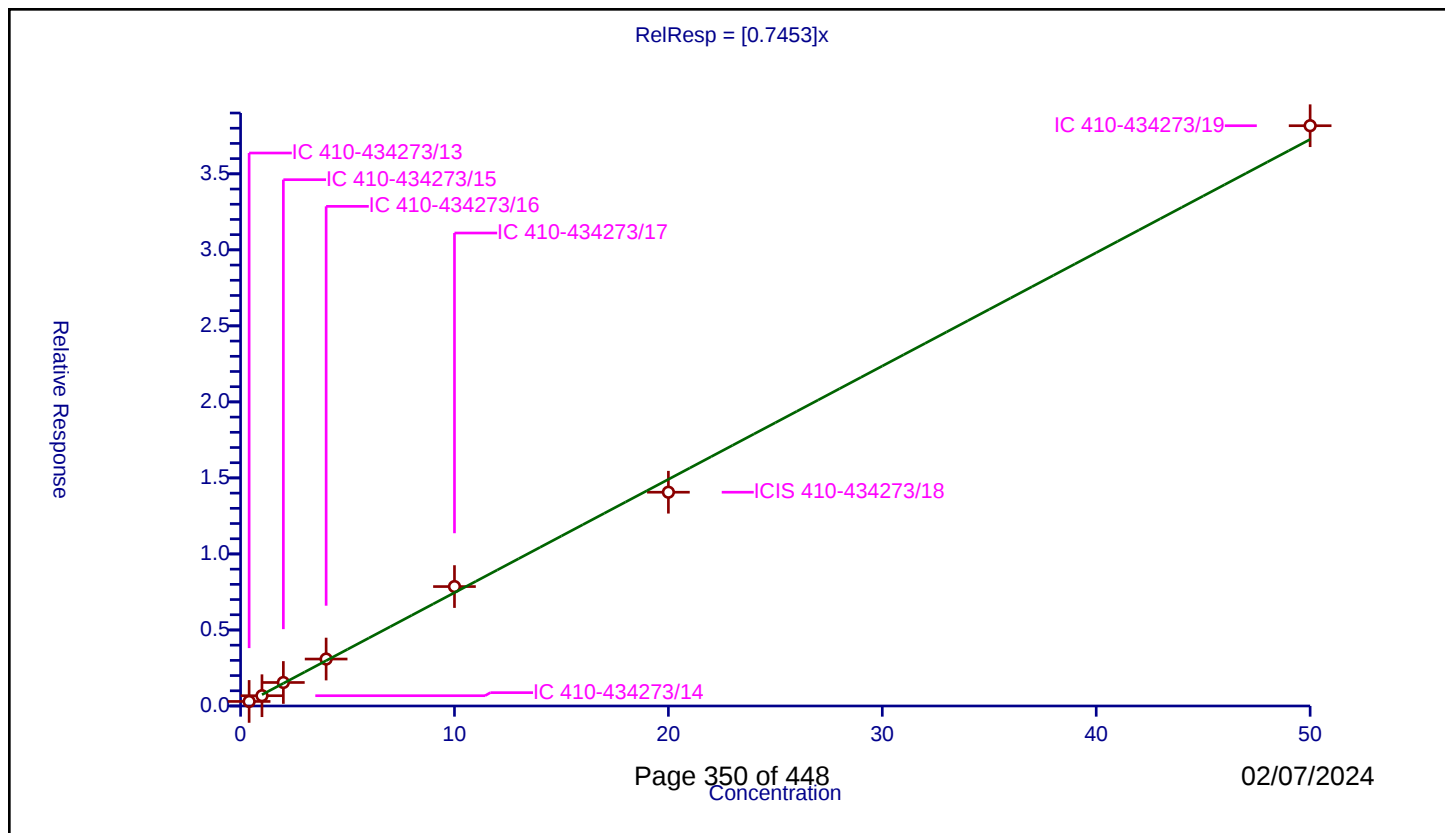
Curve Coefficients

Intercept: 0
 Slope: 0.7453

Error Coefficients

Standard Error: 2580000
 Relative Standard Error: 5.5
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.4	0.298196	10.0	1334493.0	0.745489	Y
2	IC 410-434273/14	1.0	0.675477	10.0	1450931.0	0.675477	Y
3	IC 410-434273/15	2.0	1.545484	10.0	1325766.0	0.772742	Y
4	IC 410-434273/16	4.0	3.087331	10.0	1340355.0	0.771833	Y
5	IC 410-434273/17	10.0	7.853939	10.0	1388218.0	0.785394	Y
6	ICIS 410-434273/18	20.0	14.060779	10.0	1559233.0	0.703039	Y
7	IC 410-434273/19	50.0	38.164394	10.0	1524134.0	0.763288	Y



Calibration

/ o-Xylene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

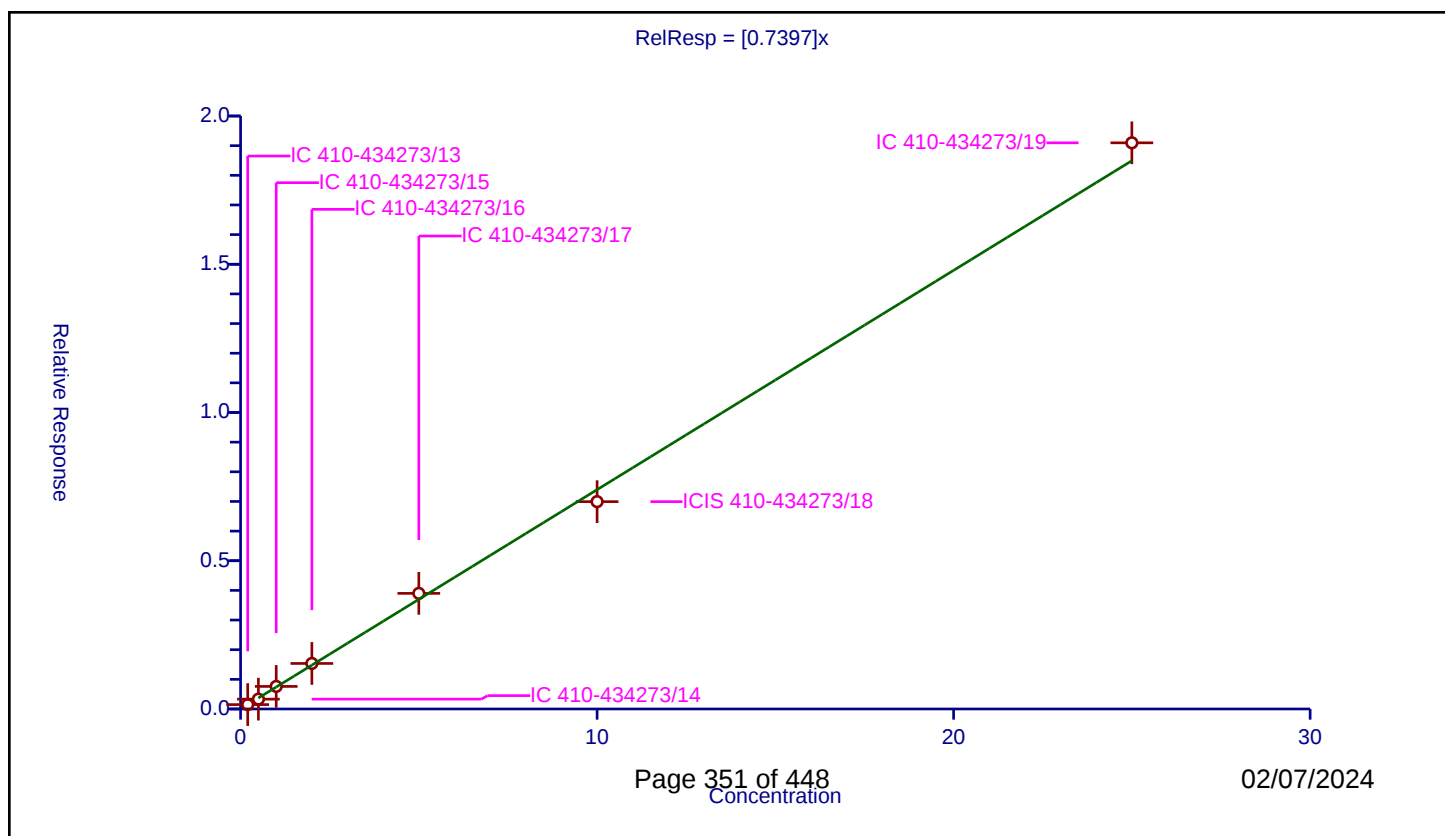
Curve Coefficients

Intercept: 0
Slope: 0.7397

Error Coefficients

Standard Error: 1290000
Relative Standard Error: 5.7
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.148184	10.0	1334493.0	0.740918	Y
2	IC 410-434273/14	0.5	0.332249	10.0	1450931.0	0.664497	Y
3	IC 410-434273/15	1.0	0.761748	10.0	1325766.0	0.761748	Y
4	IC 410-434273/16	2.0	1.535653	10.0	1340355.0	0.767826	Y
5	IC 410-434273/17	5.0	3.899013	10.0	1388218.0	0.779803	Y
6	ICIS 410-434273/18	10.0	6.993336	10.0	1559233.0	0.699334	Y
7	IC 410-434273/19	25.0	19.096477	10.0	1524134.0	0.763859	Y



Calibration

/ Styrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

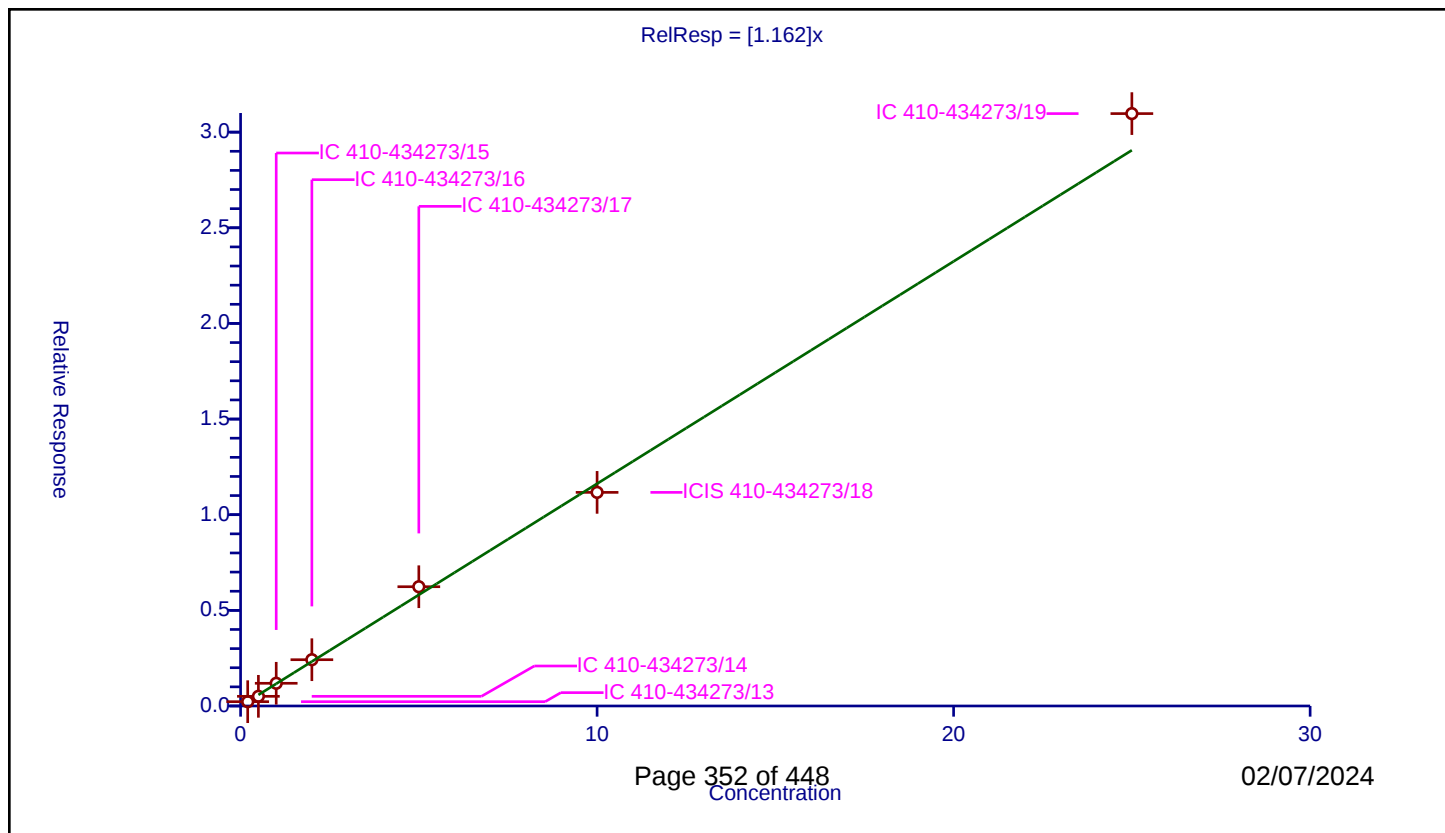
Curve Coefficients

Intercept: 0
Slope: 1.162

Error Coefficients

Standard Error: 2090000
Relative Standard Error: 7.2
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.224745	10.0	1334493.0	1.123723	Y
2	IC 410-434273/14	0.5	0.505848	10.0	1450931.0	1.011695	Y
3	IC 410-434273/15	1.0	1.187253	10.0	1325766.0	1.187253	Y
4	IC 410-434273/16	2.0	2.419665	10.0	1340355.0	1.209832	Y
5	IC 410-434273/17	5.0	6.234748	10.0	1388218.0	1.24695	Y
6	ICIS 410-434273/18	10.0	11.167786	10.0	1559233.0	1.116779	Y
7	IC 410-434273/19	25.0	30.968799	10.0	1524134.0	1.238752	Y



Calibration

/ Bromoform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

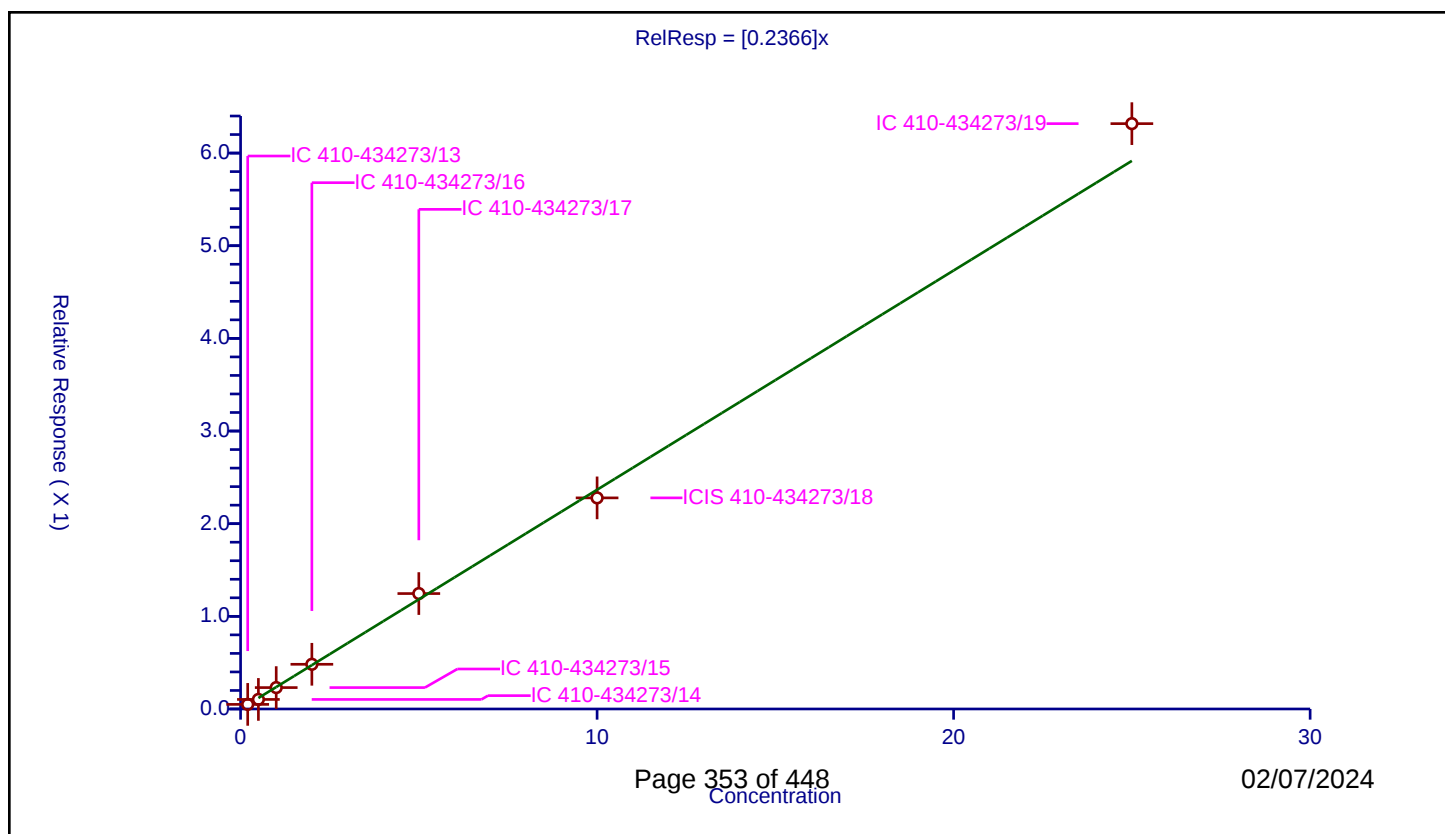
Curve Coefficients

Intercept: 0
Slope: 0.2366

Error Coefficients

Standard Error: 426000
Relative Standard Error: 6.9
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.049599	10.0	1334493.0	0.247997	Y
2	IC 410-434273/14	0.5	0.103244	10.0	1450931.0	0.206488	Y
3	IC 410-434273/15	1.0	0.231021	10.0	1325766.0	0.231021	Y
4	IC 410-434273/16	2.0	0.482521	10.0	1340355.0	0.241261	Y
5	IC 410-434273/17	5.0	1.245669	10.0	1388218.0	0.249134	Y
6	ICIS 410-434273/18	10.0	2.278377	10.0	1559233.0	0.227838	Y
7	IC 410-434273/19	25.0	6.317811	10.0	1524134.0	0.252712	Y



Calibration

/ Isopropylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

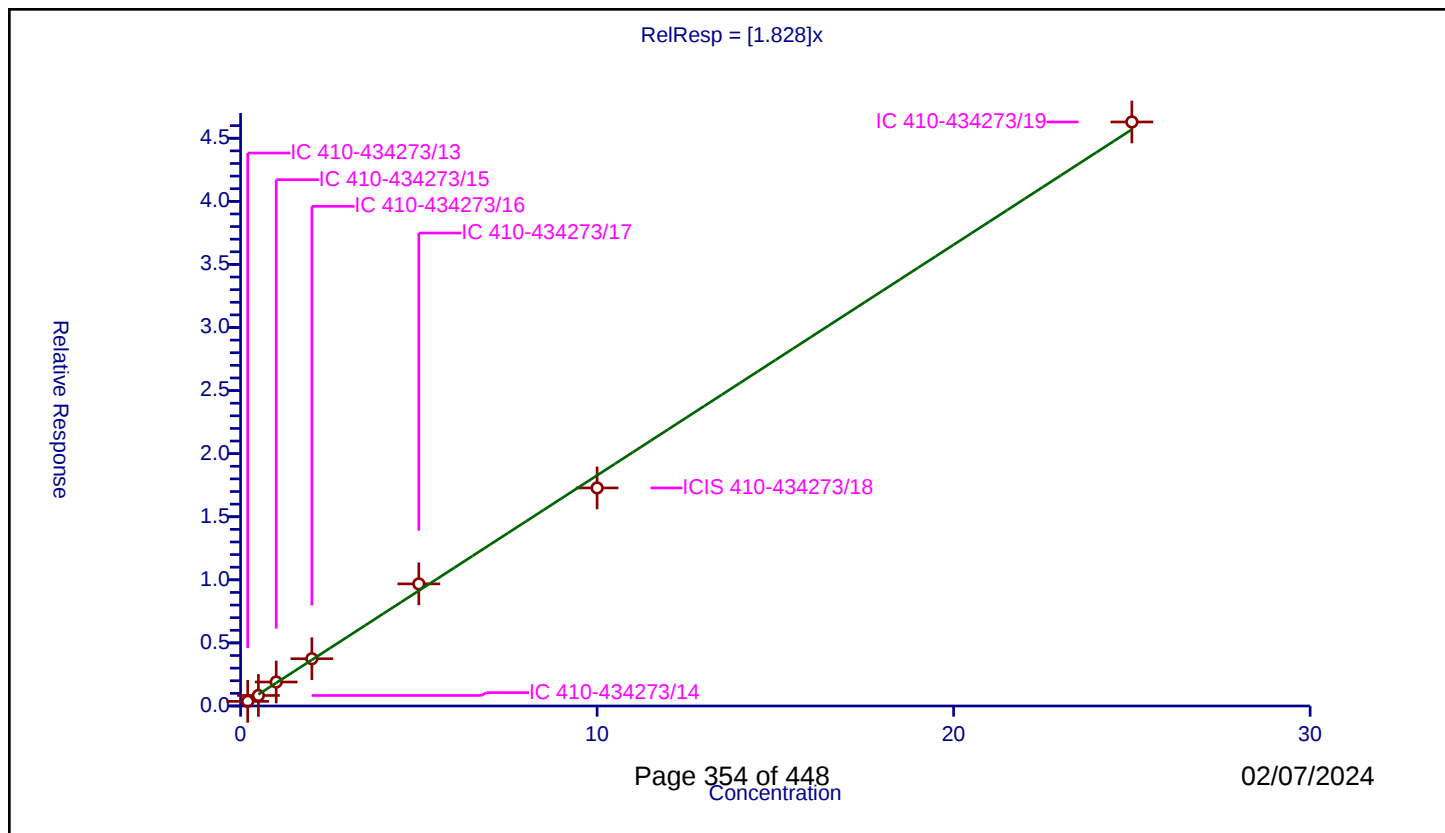
Curve Coefficients

Intercept: 0
 Slope: 1.828

Error Coefficients

Standard Error: 3140000
 Relative Standard Error: 5.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.367608	10.0	1334493.0	1.838039	Y
2	IC 410-434273/14	0.5	0.833692	10.0	1450931.0	1.667385	Y
3	IC 410-434273/15	1.0	1.901286	10.0	1325766.0	1.901286	Y
4	IC 410-434273/16	2.0	3.745627	10.0	1340355.0	1.872814	Y
5	IC 410-434273/17	5.0	9.678739	10.0	1388218.0	1.935748	Y
6	ICIS 410-434273/18	10.0	17.284004	10.0	1559233.0	1.7284	Y
7	IC 410-434273/19	25.0	46.290162	10.0	1524134.0	1.851606	Y



Calibration

/ 4-Bromofluorobenzene (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

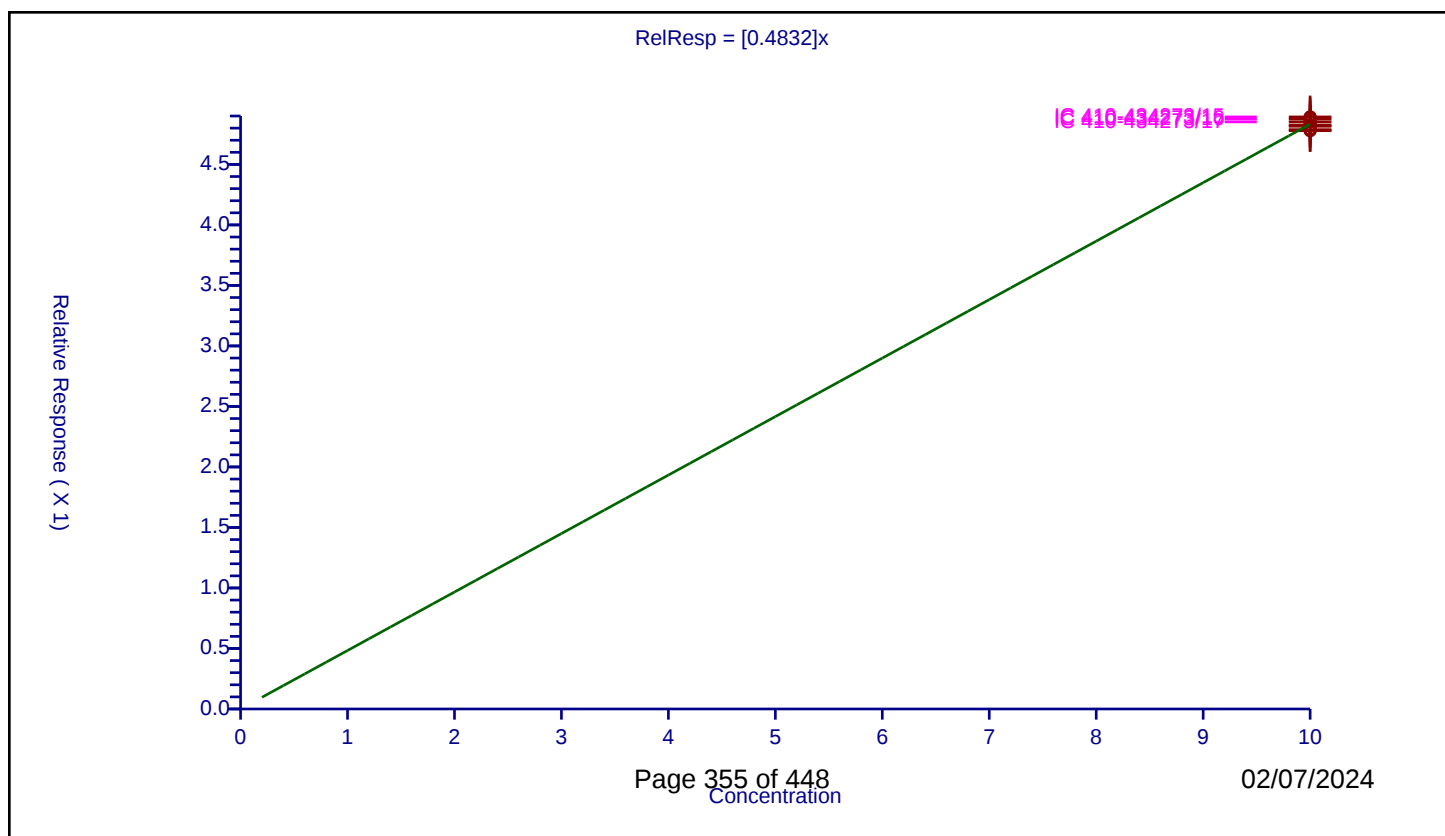
Curve Coefficients

Intercept: 0
Slope: 0.4832

Error Coefficients

Standard Error: 741000
Relative Standard Error: 0.9
Correlation Coefficient: NA
Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	10.0	4.815424	10.0	1334493.0	0.481542	Y
2	IC 410-434273/14	10.0	4.787326	10.0	1450931.0	0.478733	Y
3	IC 410-434273/15	10.0	4.89256	10.0	1325766.0	0.489256	Y
4	IC 410-434273/16	10.0	4.875119	10.0	1340355.0	0.487512	Y
5	IC 410-434273/17	10.0	4.851486	10.0	1388218.0	0.485149	Y
6	ICIS 410-434273/18	10.0	4.825289	10.0	1559233.0	0.482529	Y
7	IC 410-434273/19	10.0	4.779094	10.0	1524134.0	0.477909	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

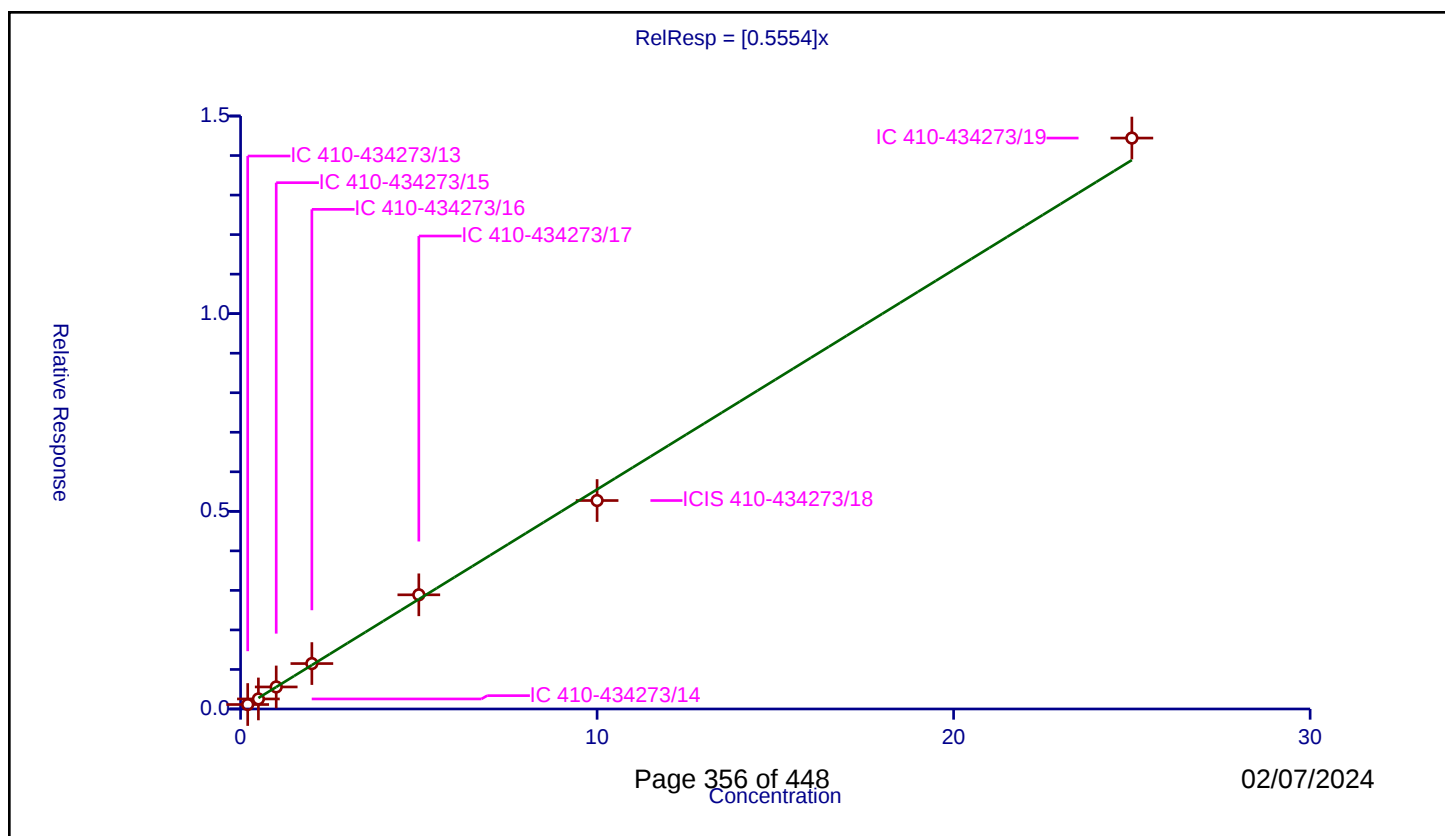
Curve Coefficients

Intercept: 0
 Slope: 0.5554

Error Coefficients

Standard Error: 587000
 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 410-434273/13	0.2	0.113073	10.0	801167.0	0.565363	Y
2	IC 410-434273/14	0.5	0.25385	10.0	872800.0	0.507699	Y
3	IC 410-434273/15	1.0	0.55783	10.0	804654.0	0.55783	Y
4	IC 410-434273/16	2.0	1.14885	10.0	813126.0	0.574425	Y
5	IC 410-434273/17	5.0	2.888151	10.0	859484.0	0.57763	Y
6	ICIS 410-434273/18	10.0	5.273334	10.0	947359.0	0.527333	Y
7	IC 410-434273/19	25.0	14.442217	10.0	914845.0	0.577689	Y



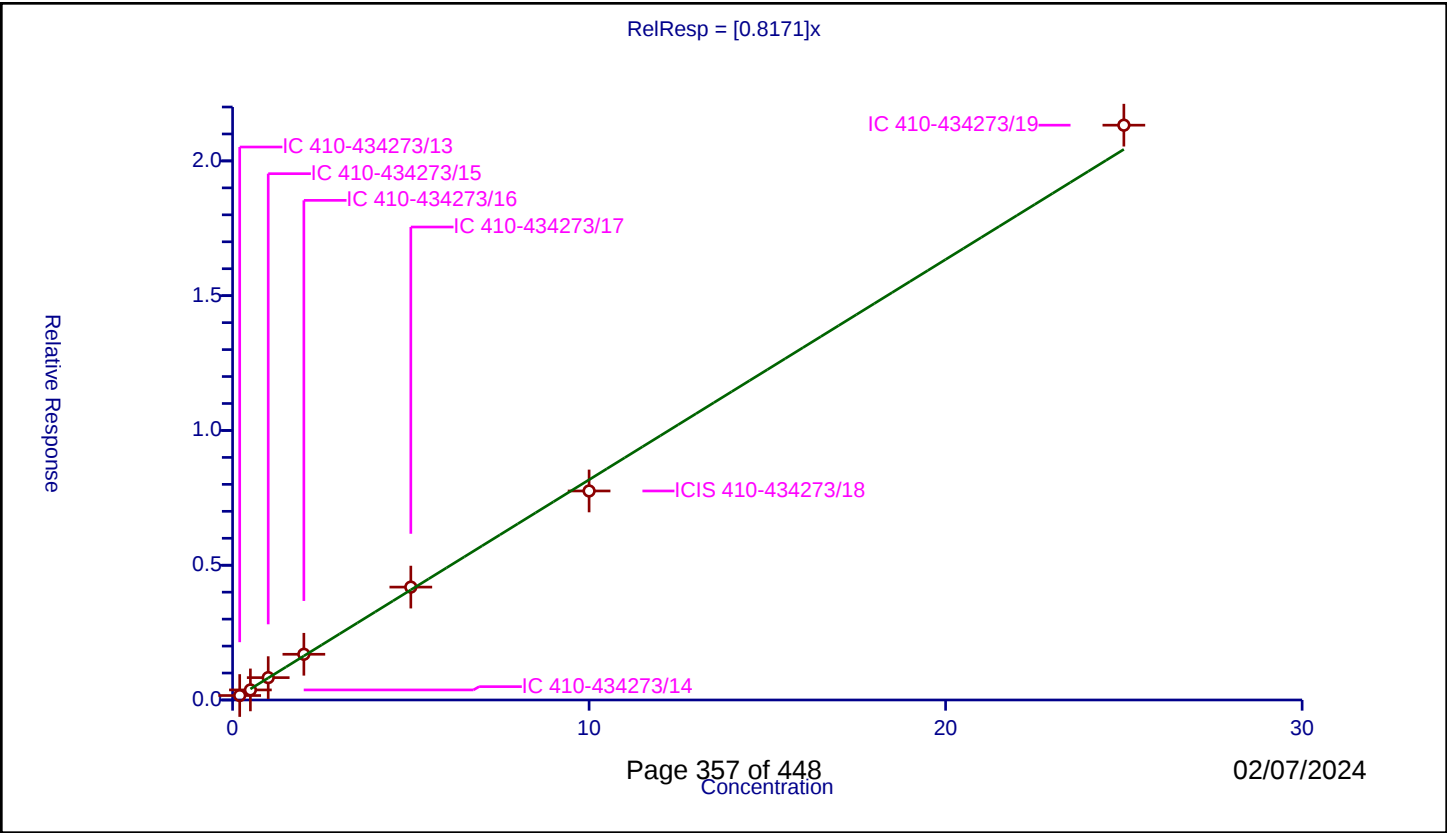
Calibration

/ 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:	0.8171
Error Coefficients	
Standard Error:	866000
Relative Standard Error:	4.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.165708	10.0	801167.0	0.828541	Y
2	IC 410-434273/14	0.5	0.373774	10.0	872800.0	0.747548	Y
3	IC 410-434273/15	1.0	0.829263	10.0	804654.0	0.829263	Y
4	IC 410-434273/16	2.0	1.696699	10.0	813126.0	0.848349	Y
5	IC 410-434273/17	5.0	4.188769	10.0	859484.0	0.837754	Y
6	ICIS 410-434273/18	10.0	7.755423	10.0	947359.0	0.775542	Y
7	IC 410-434273/19	25.0	21.326006	10.0	914845.0	0.85304	Y



Calibration

/ trans-1,4-Dichloro-2-butene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

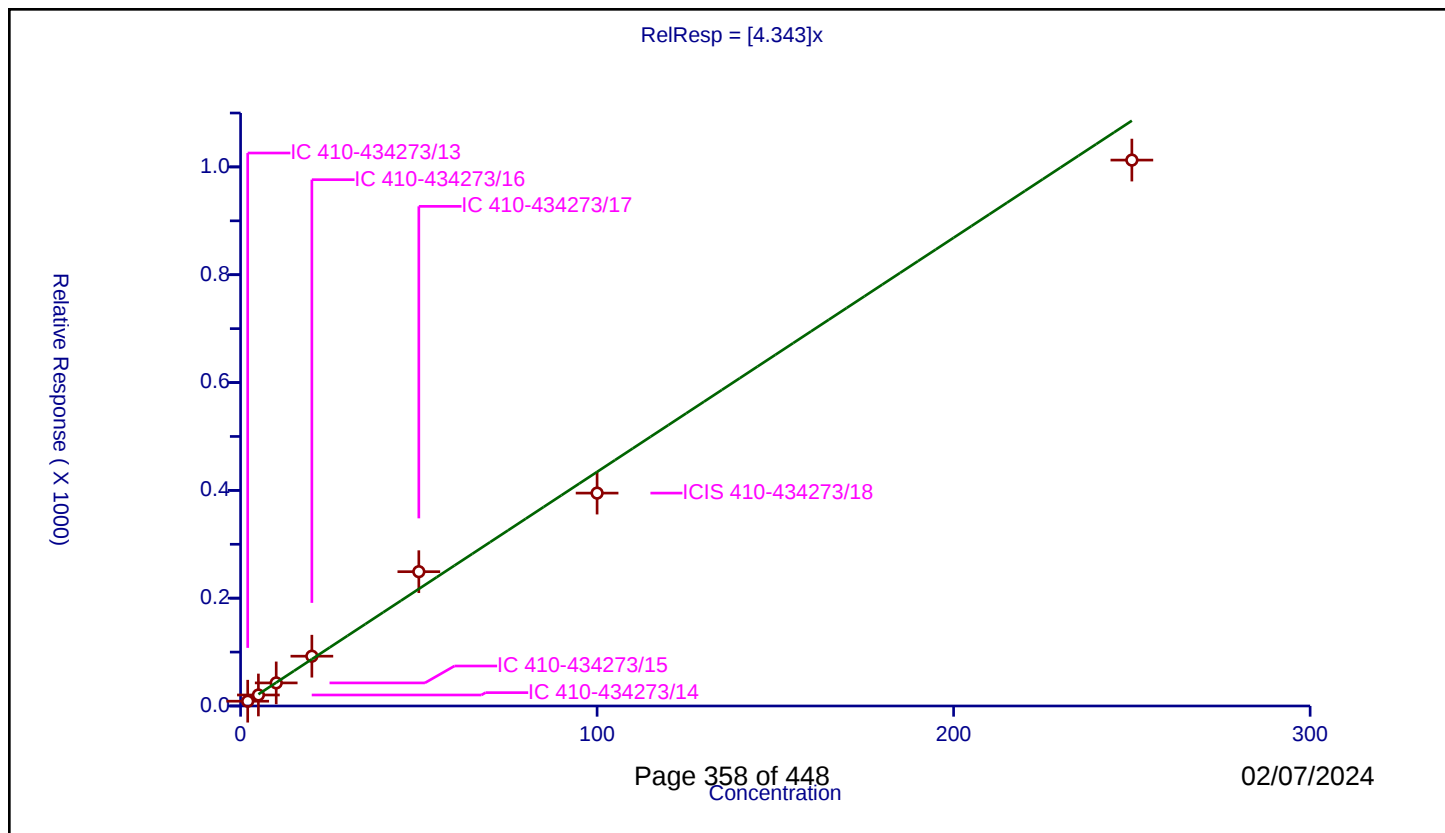
Curve Coefficients

Intercept: 0
 Slope: 4.343

Error Coefficients

Standard Error: 1650000
 Relative Standard Error: 8.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	2.0	8.878294	50.0	135285.0	4.439147	Y
2	IC 410-434273/14	5.0	20.4048	50.0	152001.0	4.08096	Y
3	IC 410-434273/15	10.0	42.79195	50.0	149118.0	4.279195	Y
4	IC 410-434273/16	20.0	92.386213	50.0	145821.0	4.619311	Y
5	IC 410-434273/17	50.0	249.125694	50.0	141312.0	4.982514	Y
6	ICIS 410-434273/18	100.0	394.947276	50.0	179329.0	3.949473	Y
7	IC 410-434273/19	250.0	1012.687867	50.0	183175.0	4.050751	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

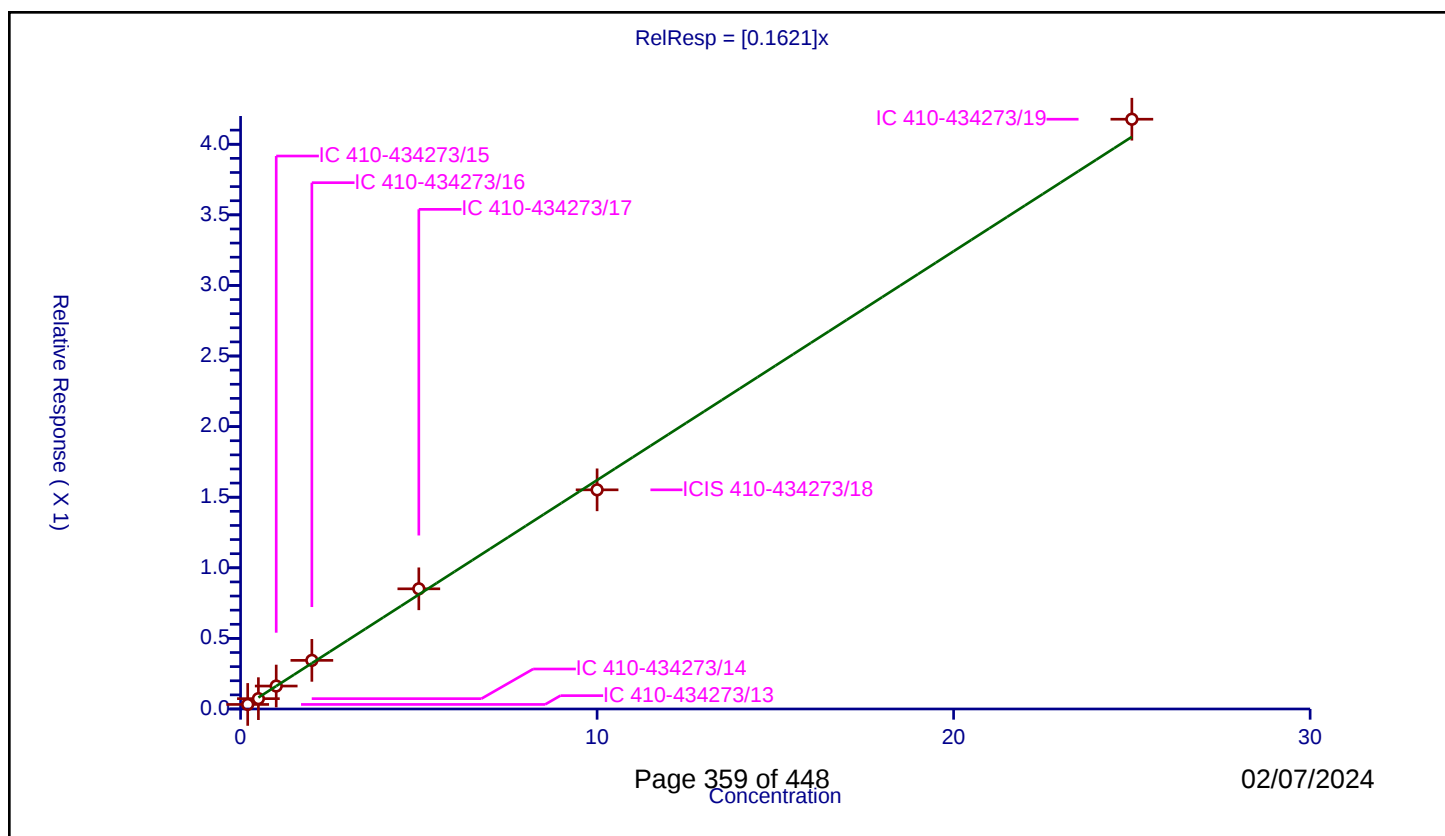
Curve Coefficients

Intercept: 0
 Slope: 0.1621

Error Coefficients

Standard Error: 170000
 Relative Standard Error: 5.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.032191	10.0	801167.0	0.160953	Y
2	IC 410-434273/14	0.5	0.073201	10.0	872800.0	0.146402	Y
3	IC 410-434273/15	1.0	0.162567	10.0	804654.0	0.162567	Y
4	IC 410-434273/16	2.0	0.344375	10.0	813126.0	0.172187	Y
5	IC 410-434273/17	5.0	0.851197	10.0	859484.0	0.170239	Y
6	ICIS 410-434273/18	10.0	1.552347	10.0	947359.0	0.155235	Y
7	IC 410-434273/19	25.0	4.177298	10.0	914845.0	0.167092	Y

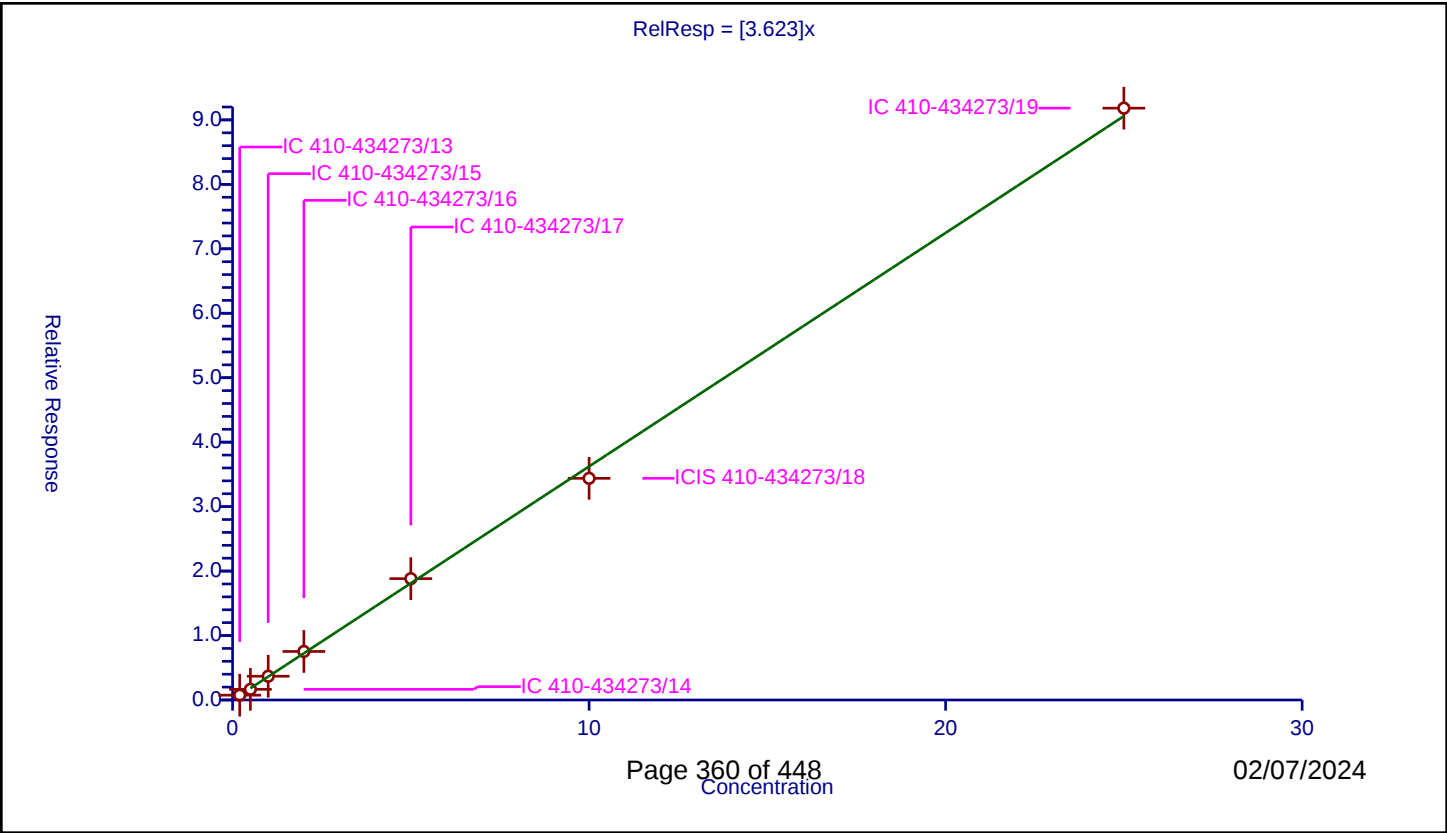


Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.623

Error Coefficients	
Standard Error:	3750000
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 410-434273/13	0.2	0.745849	10.0	801167.0	3.729247	Y
2	IC 410-434273/14	0.5	1.654182	10.0	872800.0	3.308364	Y
3	IC 410-434273/15	1.0	3.685597	10.0	804654.0	3.685597	Y
4	IC 410-434273/16	2.0	7.527284	10.0	813126.0	3.763642	Y
5	IC 410-434273/17	5.0	18.825388	10.0	859484.0	3.765078	Y
6	ICIS 410-434273/18	10.0	34.389899	10.0	947359.0	3.43899	Y
7	IC 410-434273/19	25.0	91.823413	10.0	914845.0	3.672937	Y



Calibration

/ 2-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

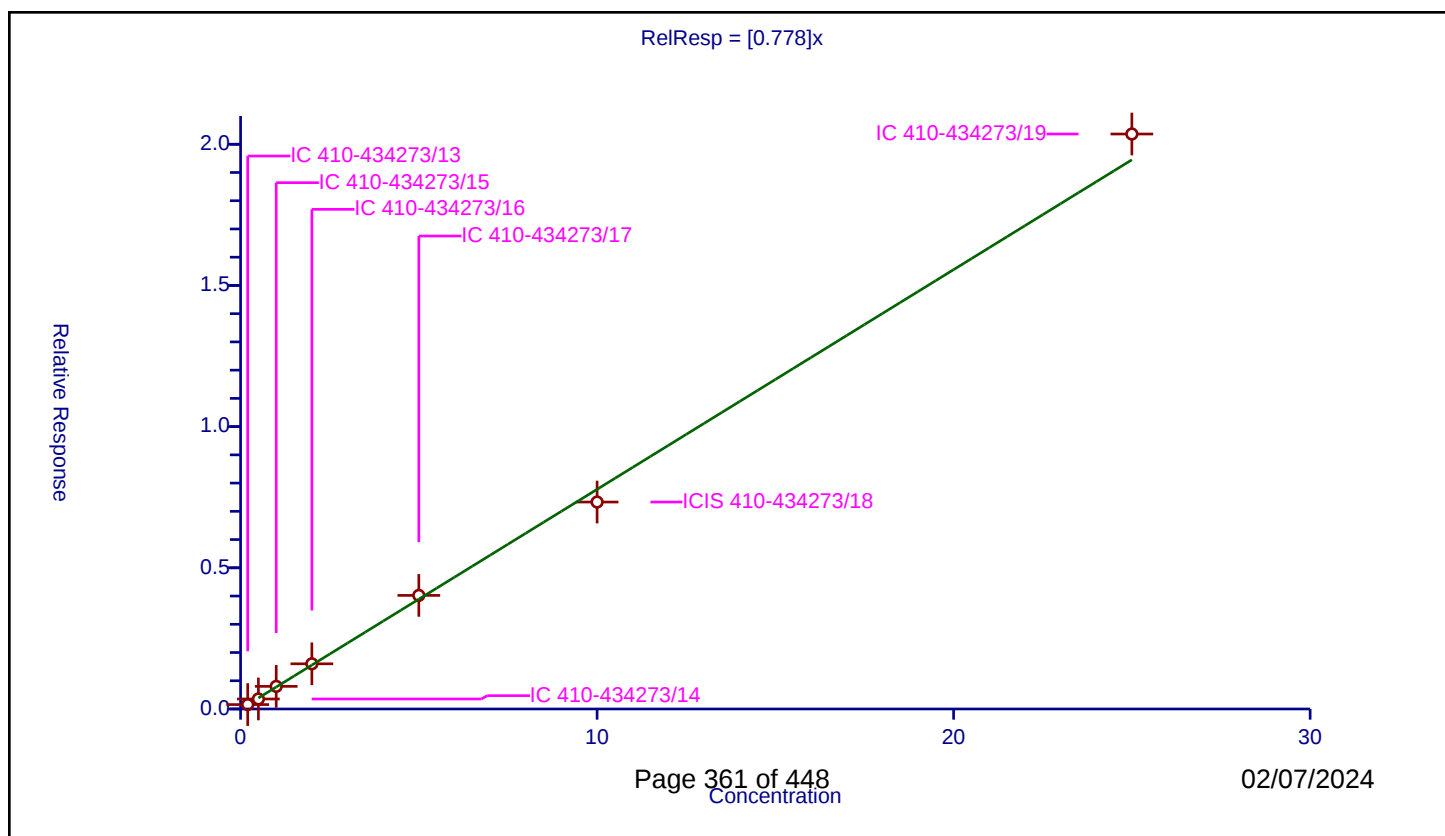
Curve Coefficients

Intercept: 0
Slope: 0.778

Error Coefficients

Standard Error: 826000
Relative Standard Error: 5.2
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.156709	10.0	801167.0	0.783545	Y
2	IC 410-434273/14	0.5	0.354342	10.0	872800.0	0.708685	Y
3	IC 410-434273/15	1.0	0.801624	10.0	804654.0	0.801624	Y
4	IC 410-434273/16	2.0	1.600023	10.0	813126.0	0.800011	Y
5	IC 410-434273/17	5.0	4.022751	10.0	859484.0	0.80455	Y
6	ICIS 410-434273/18	10.0	7.329418	10.0	947359.0	0.732942	Y
7	IC 410-434273/19	25.0	20.362367	10.0	914845.0	0.814495	Y



Calibration

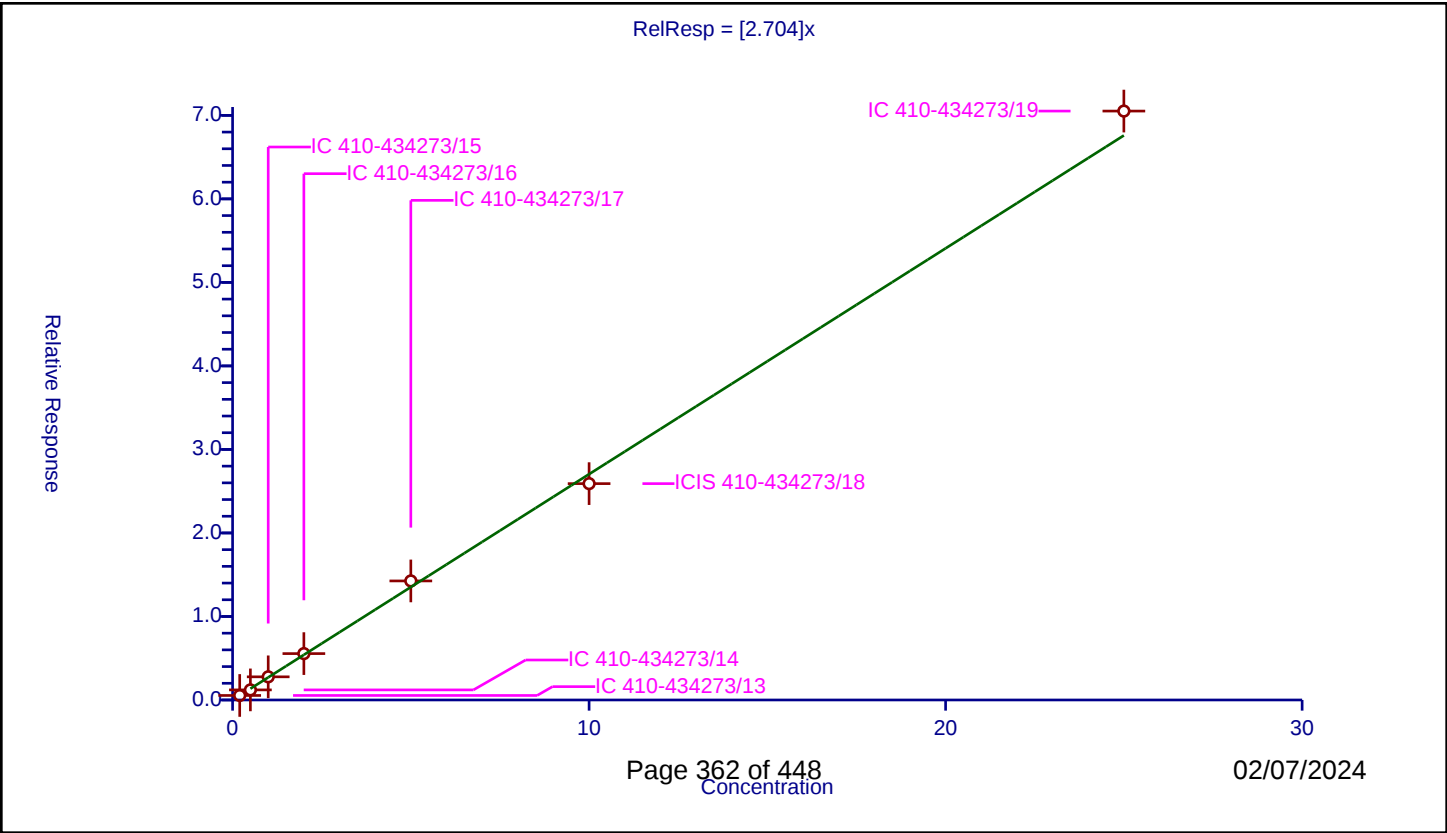
/ 1,3,5-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.704

Error Coefficients	
Standard Error:	2870000
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 410-434273/13	0.2	0.5398	10.0	801167.0	2.699	Y
2	IC 410-434273/14	0.5	1.208169	10.0	872800.0	2.416338	Y
3	IC 410-434273/15	1.0	2.772546	10.0	804654.0	2.772546	Y
4	IC 410-434273/16	2.0	5.553567	10.0	813126.0	2.776784	Y
5	IC 410-434273/17	5.0	14.254099	10.0	859484.0	2.85082	Y
6	ICIS 410-434273/18	10.0	25.906747	10.0	947359.0	2.590675	Y
7	IC 410-434273/19	25.0	70.515005	10.0	914845.0	2.8206	Y



Calibration

/ 4-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

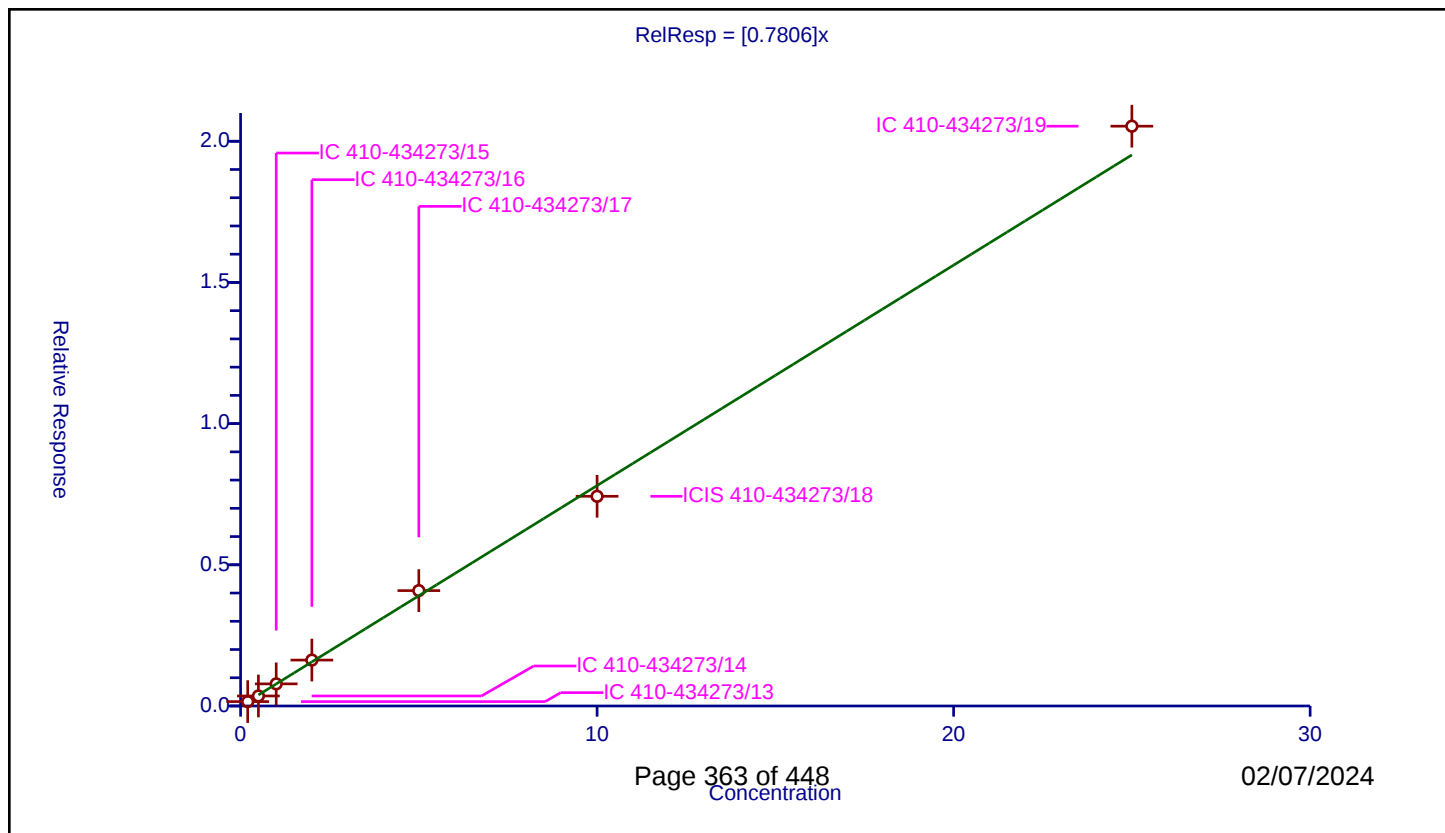
Curve Coefficients

Intercept: 0
Slope: 0.7806

Error Coefficients

Standard Error: 834000
Relative Standard Error: 5.4
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.155423	10.0	801167.0	0.777116	Y
2	IC 410-434273/14	0.5	0.355018	10.0	872800.0	0.710037	Y
3	IC 410-434273/15	1.0	0.78343	10.0	804654.0	0.78343	Y
4	IC 410-434273/16	2.0	1.625382	10.0	813126.0	0.812691	Y
5	IC 410-434273/17	5.0	4.085498	10.0	859484.0	0.8171	Y
6	ICIS 410-434273/18	10.0	7.42577	10.0	947359.0	0.742577	Y
7	IC 410-434273/19	25.0	20.532997	10.0	914845.0	0.82132	Y



Calibration

/ tert-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

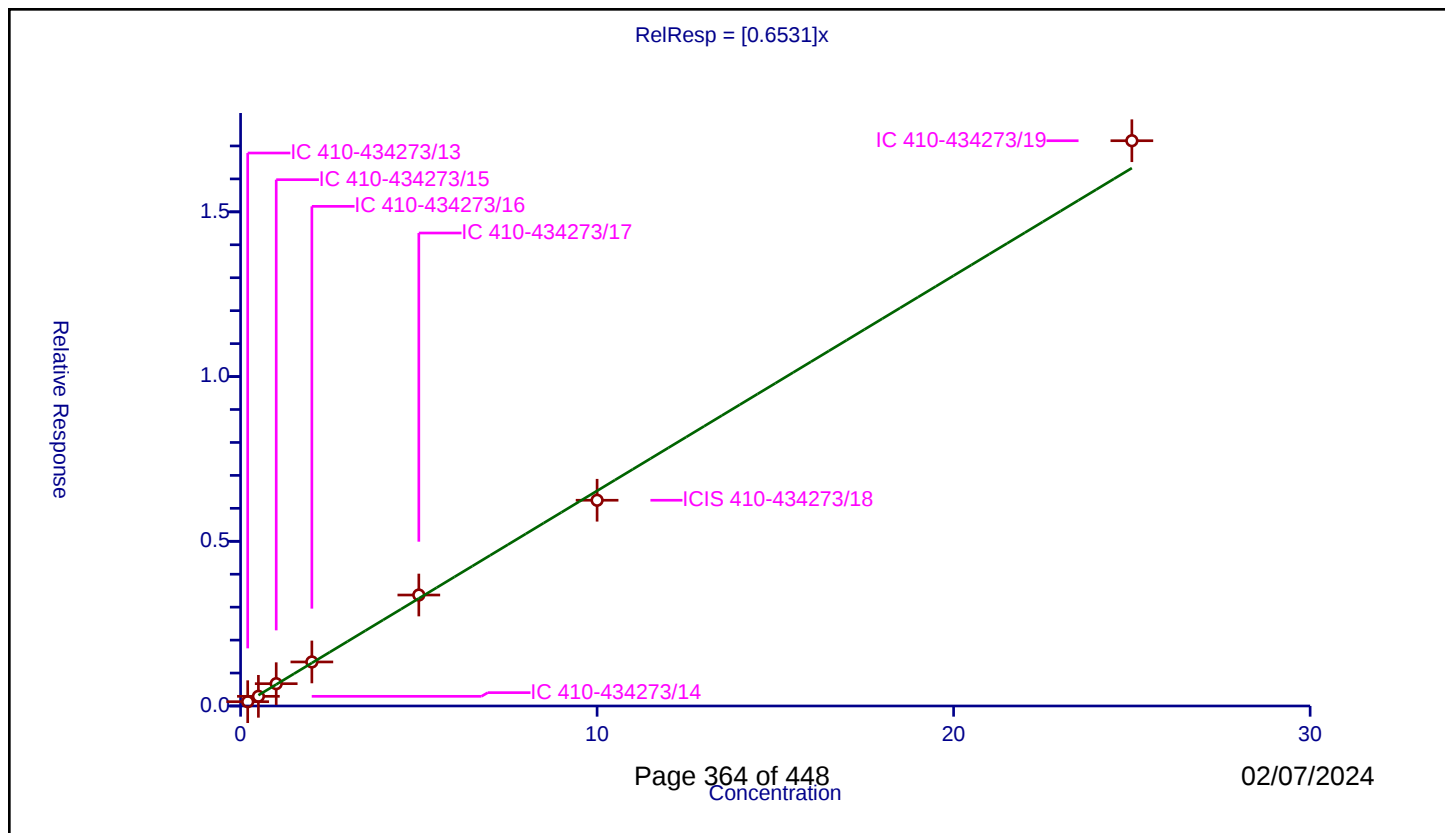
Curve Coefficients

Intercept: 0
Slope: 0.6531

Error Coefficients

Standard Error: 697000
Relative Standard Error: 5.4
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.130922	10.0	801167.0	0.654608	Y
2	IC 410-434273/14	0.5	0.293664	10.0	872800.0	0.587328	Y
3	IC 410-434273/15	1.0	0.677011	10.0	804654.0	0.677011	Y
4	IC 410-434273/16	2.0	1.336742	10.0	813126.0	0.668371	Y
5	IC 410-434273/17	5.0	3.368451	10.0	859484.0	0.67369	Y
6	ICIS 410-434273/18	10.0	6.245795	10.0	947359.0	0.624579	Y
7	IC 410-434273/19	25.0	17.158863	10.0	914845.0	0.686355	Y



Calibration

/ Pentachloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

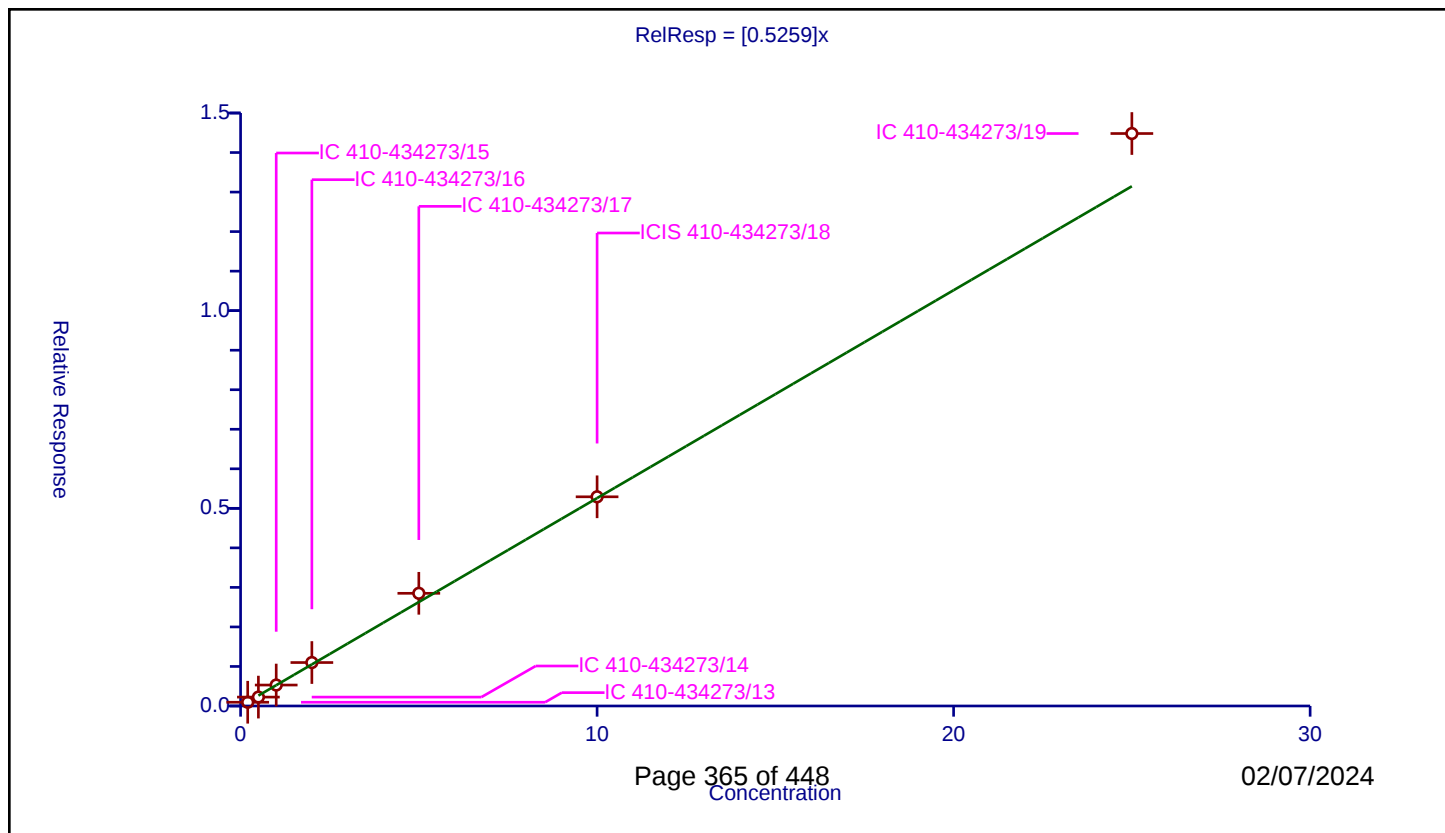
Curve Coefficients

Intercept: 0
 Slope: 0.5259

Error Coefficients

Standard Error: 588000
 Relative Standard Error: 9.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.09455	10.0	801167.0	0.472748	Y
2	IC 410-434273/14	0.5	0.22516	10.0	872800.0	0.450321	Y
3	IC 410-434273/15	1.0	0.529954	10.0	804654.0	0.529954	Y
4	IC 410-434273/16	2.0	1.09935	10.0	813126.0	0.549675	Y
5	IC 410-434273/17	5.0	2.850071	10.0	859484.0	0.570014	Y
6	ICIS 410-434273/18	10.0	5.291542	10.0	947359.0	0.529154	Y
7	IC 410-434273/19	25.0	14.481043	10.0	914845.0	0.579242	Y



Calibration

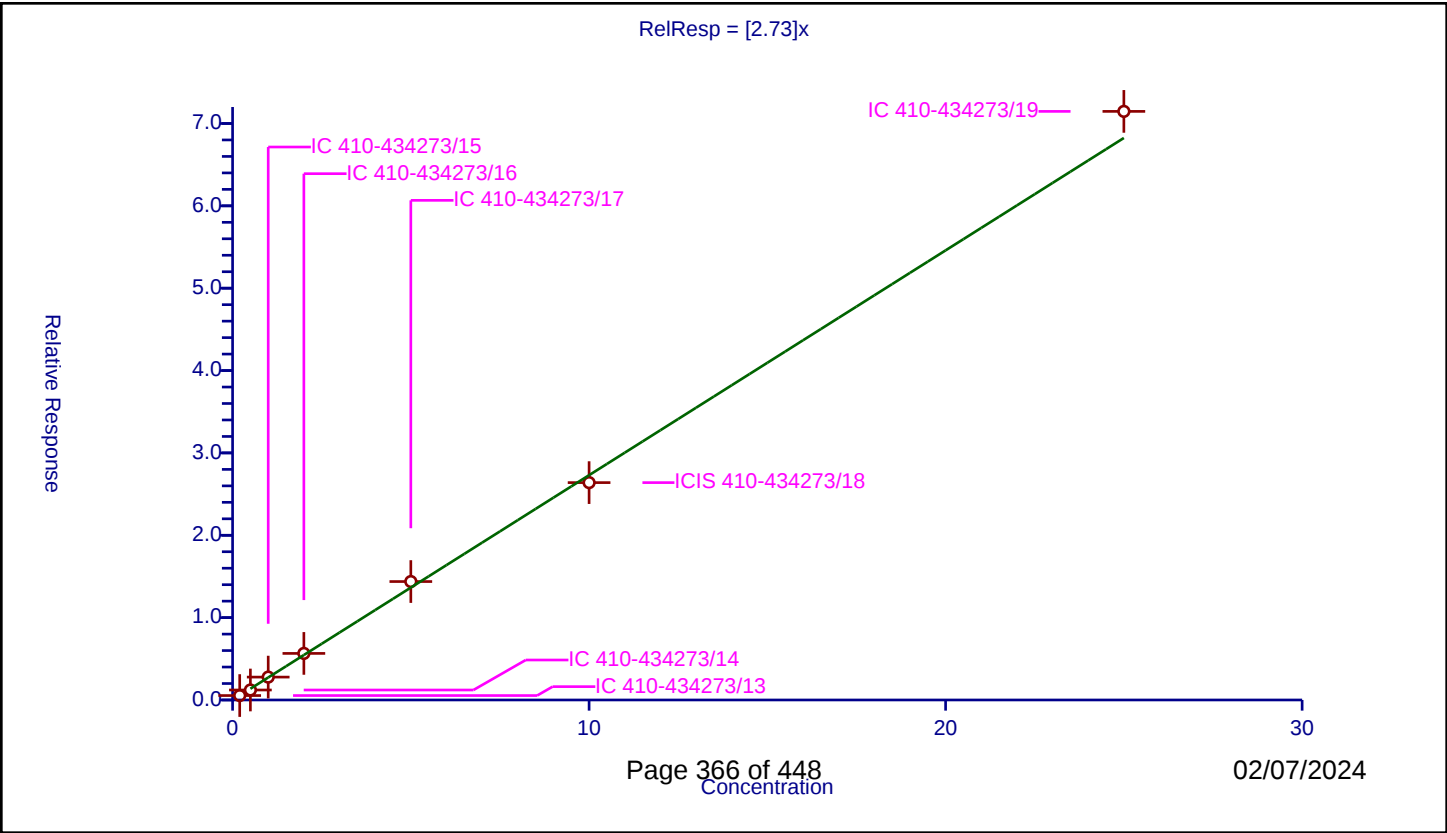
/ 1,2,4-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.73

Error Coefficients	
Standard Error:	2910000
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.539438	10.0	801167.0	2.69719	Y
2	IC 410-434273/14	0.5	1.214115	10.0	872800.0	2.428231	Y
3	IC 410-434273/15	1.0	2.778996	10.0	804654.0	2.778996	Y
4	IC 410-434273/16	2.0	5.656368	10.0	813126.0	2.828184	Y
5	IC 410-434273/17	5.0	14.381617	10.0	859484.0	2.876323	Y
6	ICIS 410-434273/18	10.0	26.393648	10.0	947359.0	2.639365	Y
7	IC 410-434273/19	25.0	71.47026	10.0	914845.0	2.85881	Y



Calibration

/ sec-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

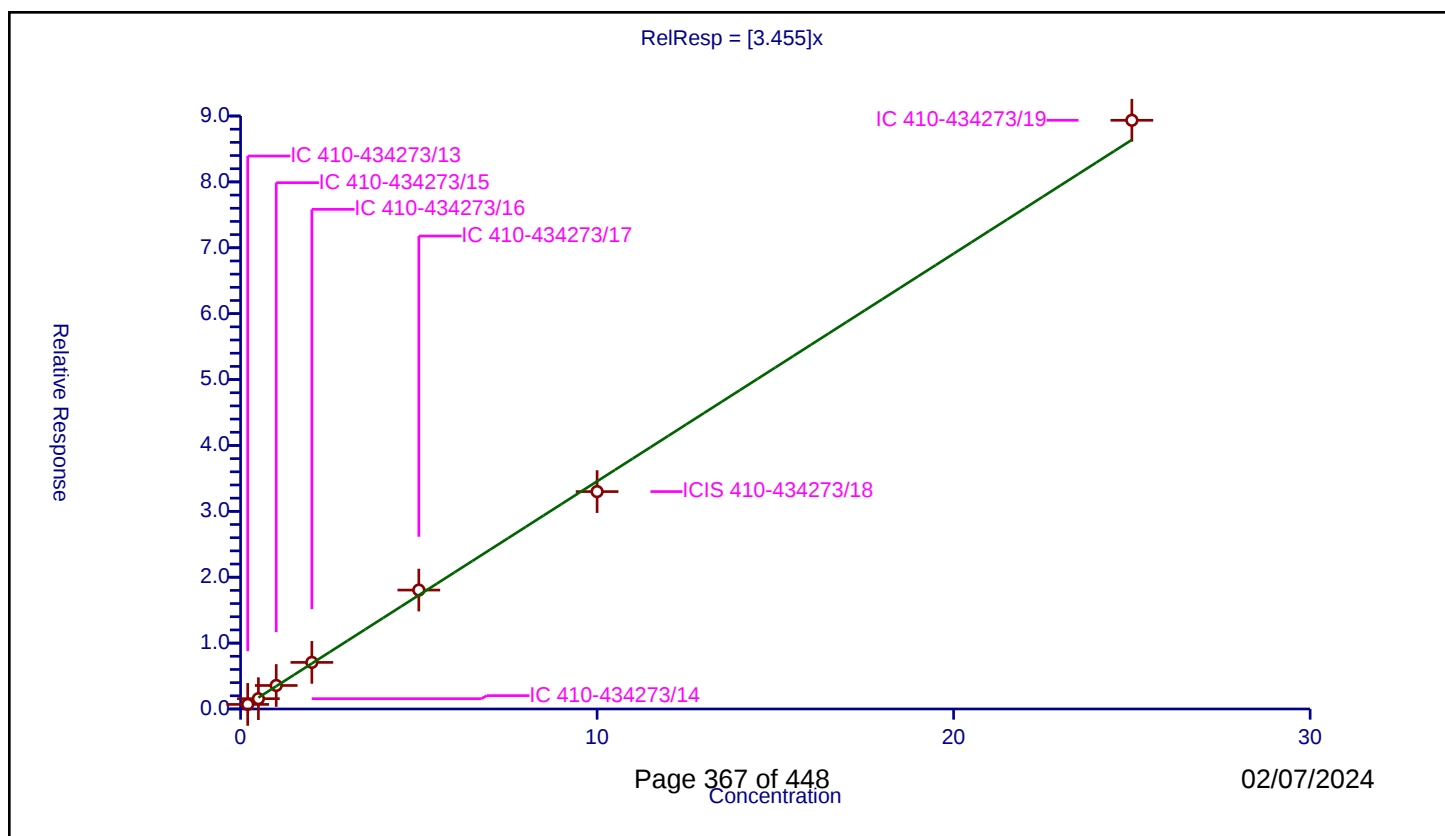
Curve Coefficients

Intercept: 0
Slope: 3.455

Error Coefficients

Standard Error: 3640000
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 410-434273/13	0.2	0.694237	10.0	801167.0	3.471186	Y
2	IC 410-434273/14	0.5	1.563737	10.0	872800.0	3.127475	Y
3	IC 410-434273/15	1.0	3.568615	10.0	804654.0	3.568615	Y
4	IC 410-434273/16	2.0	7.073307	10.0	813126.0	3.536654	Y
5	IC 410-434273/17	5.0	18.048504	10.0	859484.0	3.609701	Y
6	ICIS 410-434273/18	10.0	32.995992	10.0	947359.0	3.299599	Y
7	IC 410-434273/19	25.0	89.351147	10.0	914845.0	3.574046	Y



Calibration

/ 1,3-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

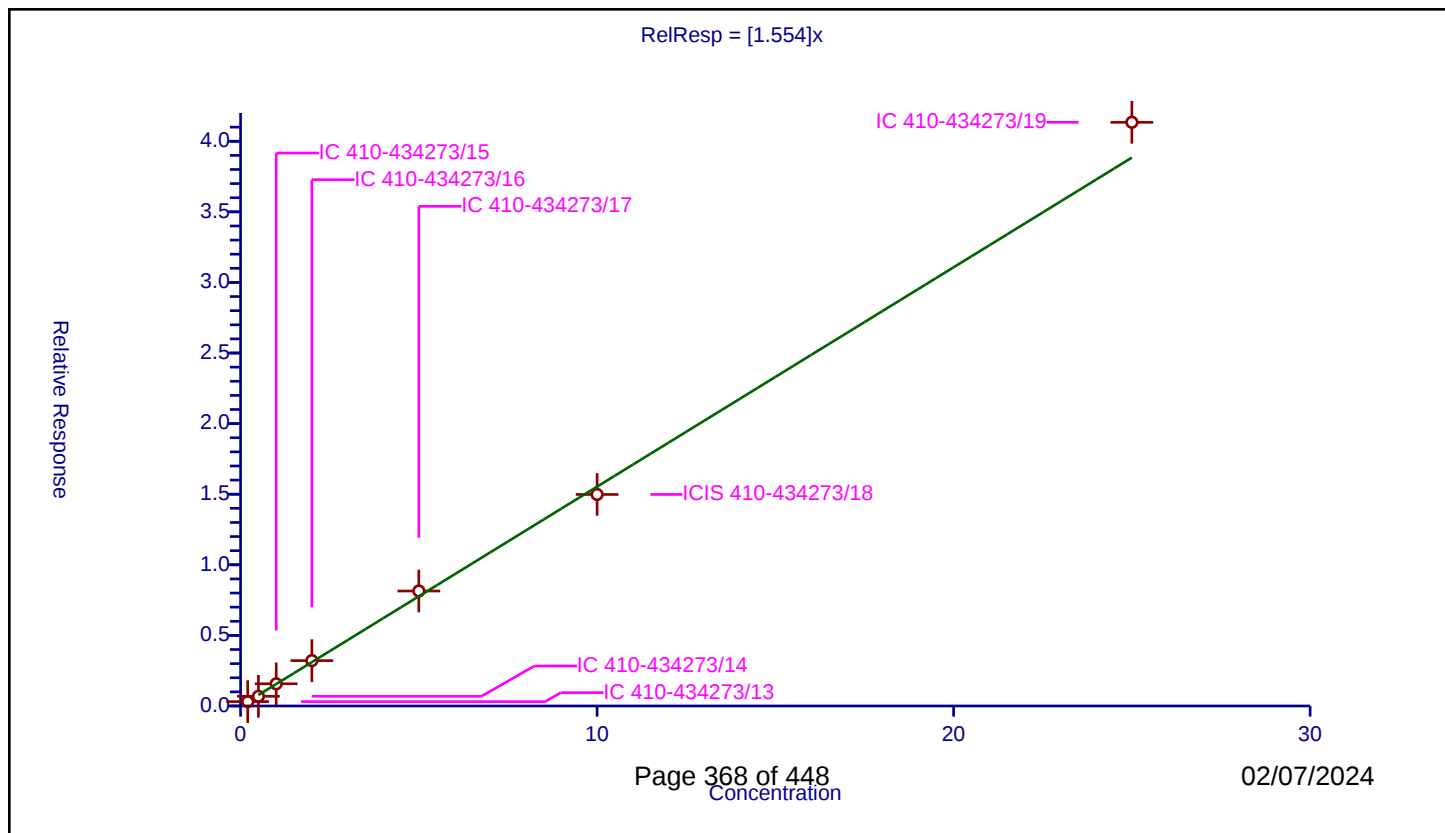
Curve Coefficients

Intercept: 0
Slope: 1.554

Error Coefficients

Standard Error: 1680000
Relative Standard Error: 6.2
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.30865	10.0	801167.0	1.543249	Y
2	IC 410-434273/14	0.5	0.686079	10.0	872800.0	1.372159	Y
3	IC 410-434273/15	1.0	1.57249	10.0	804654.0	1.57249	Y
4	IC 410-434273/16	2.0	3.214028	10.0	813126.0	1.607014	Y
5	IC 410-434273/17	5.0	8.143433	10.0	859484.0	1.628687	Y
6	ICIS 410-434273/18	10.0	14.982831	10.0	947359.0	1.498283	Y
7	IC 410-434273/19	25.0	41.342796	10.0	914845.0	1.653712	Y



Calibration

/ 4-Isopropyltoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

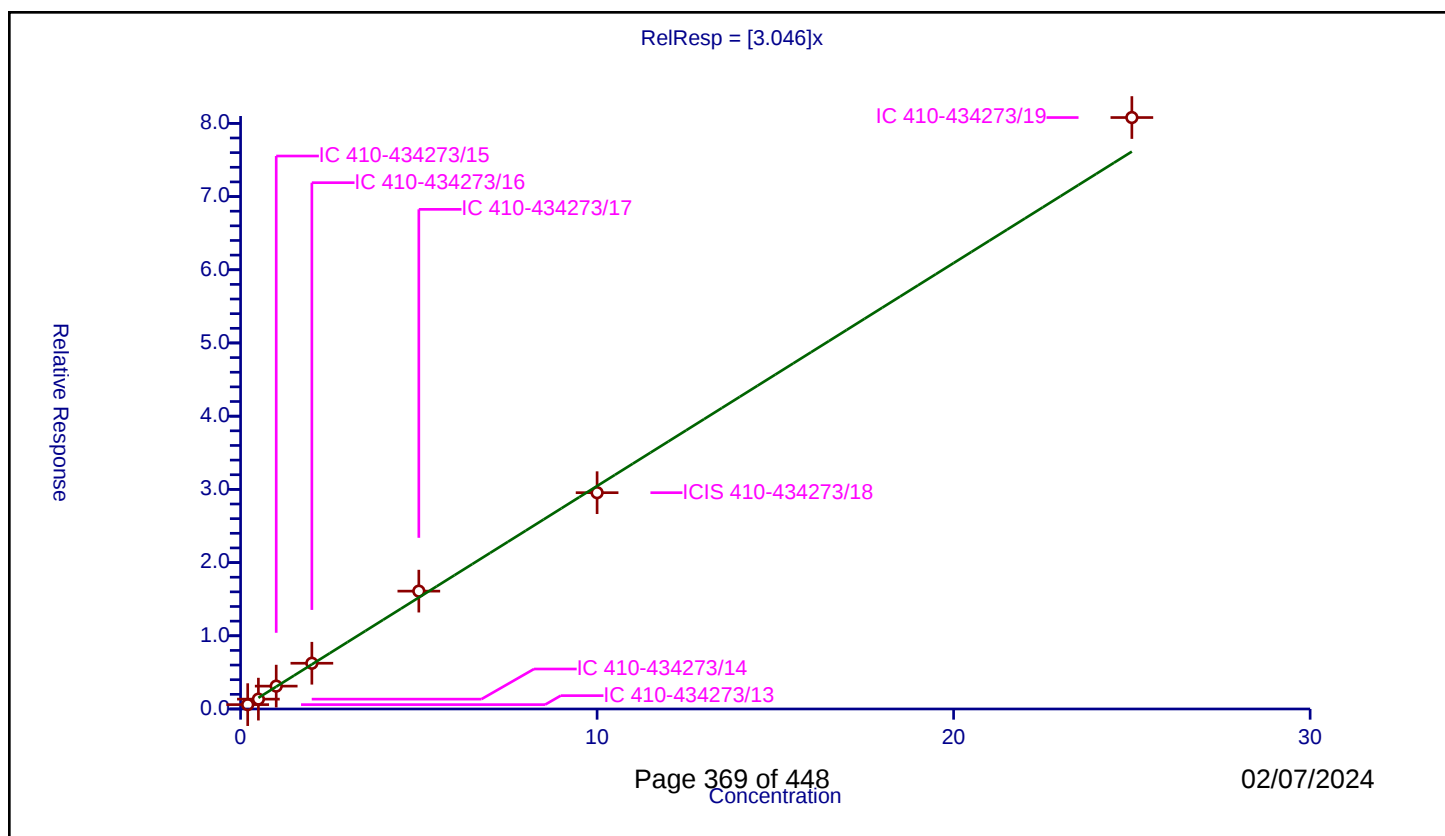
Curve Coefficients

Intercept: 0
 Slope: 3.046

Error Coefficients

Standard Error: 3280000
 Relative Standard Error: 6.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.594907	10.0	801167.0	2.974536	Y
2	IC 410-434273/14	0.5	1.345749	10.0	872800.0	2.691499	Y
3	IC 410-434273/15	1.0	3.124076	10.0	804654.0	3.124076	Y
4	IC 410-434273/16	2.0	6.247962	10.0	813126.0	3.123981	Y
5	IC 410-434273/17	5.0	16.097135	10.0	859484.0	3.219427	Y
6	ICIS 410-434273/18	10.0	29.545758	10.0	947359.0	2.954576	Y
7	IC 410-434273/19	25.0	80.791905	10.0	914845.0	3.231676	Y



Calibration

/ 1,4-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

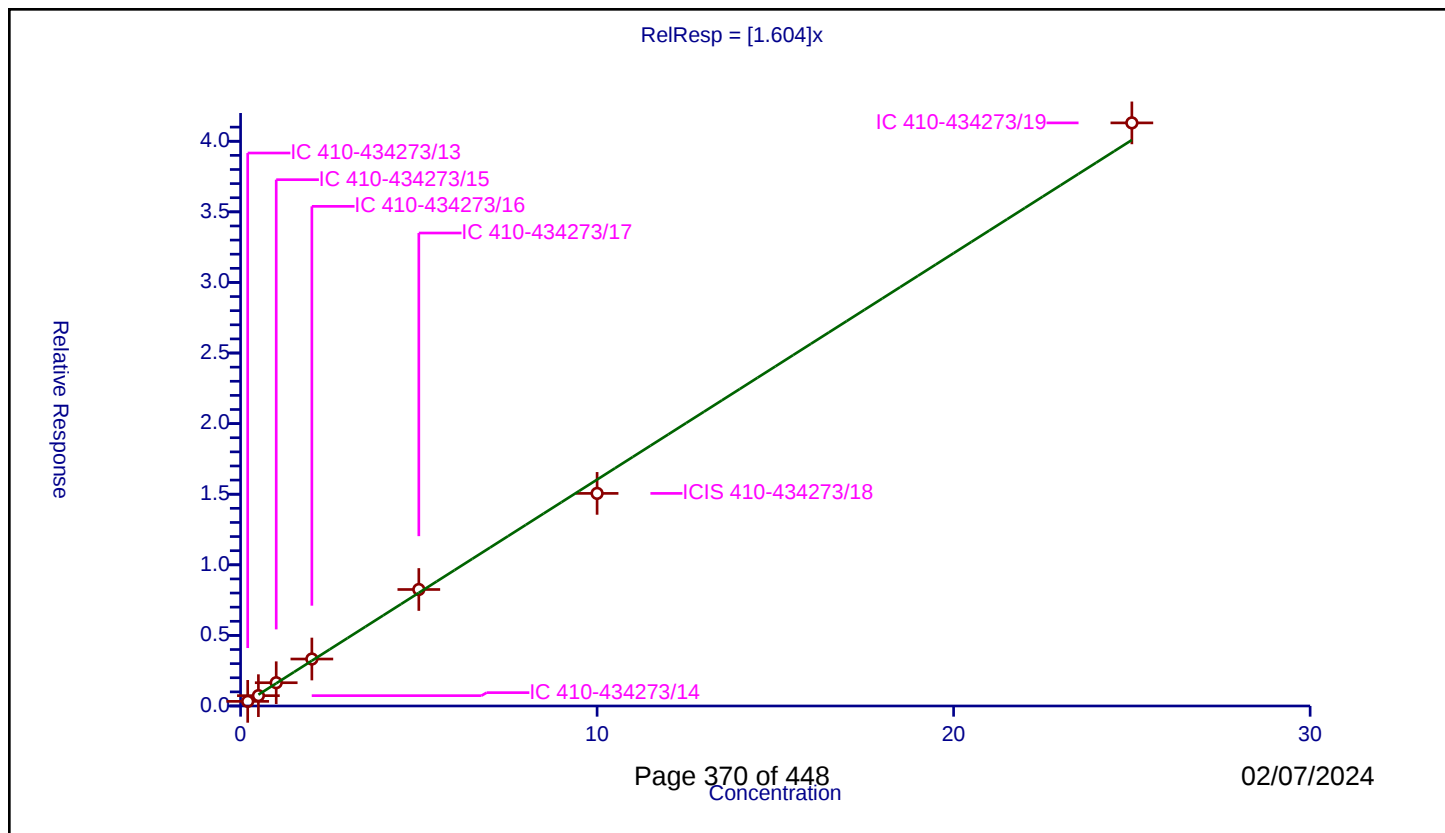
Curve Coefficients

Intercept: 0
 Slope: 1.604

Error Coefficients

Standard Error: 1680000
 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 410-434273/13	0.2	0.328196	10.0	801167.0	1.640981	Y
2	IC 410-434273/14	0.5	0.731829	10.0	872800.0	1.463657	Y
3	IC 410-434273/15	1.0	1.648398	10.0	804654.0	1.648398	Y
4	IC 410-434273/16	2.0	3.327504	10.0	813126.0	1.663752	Y
5	IC 410-434273/17	5.0	8.25116	10.0	859484.0	1.650232	Y
6	ICIS 410-434273/18	10.0	15.058705	10.0	947359.0	1.505871	Y
7	IC 410-434273/19	25.0	41.301324	10.0	914845.0	1.652053	Y



Calibration

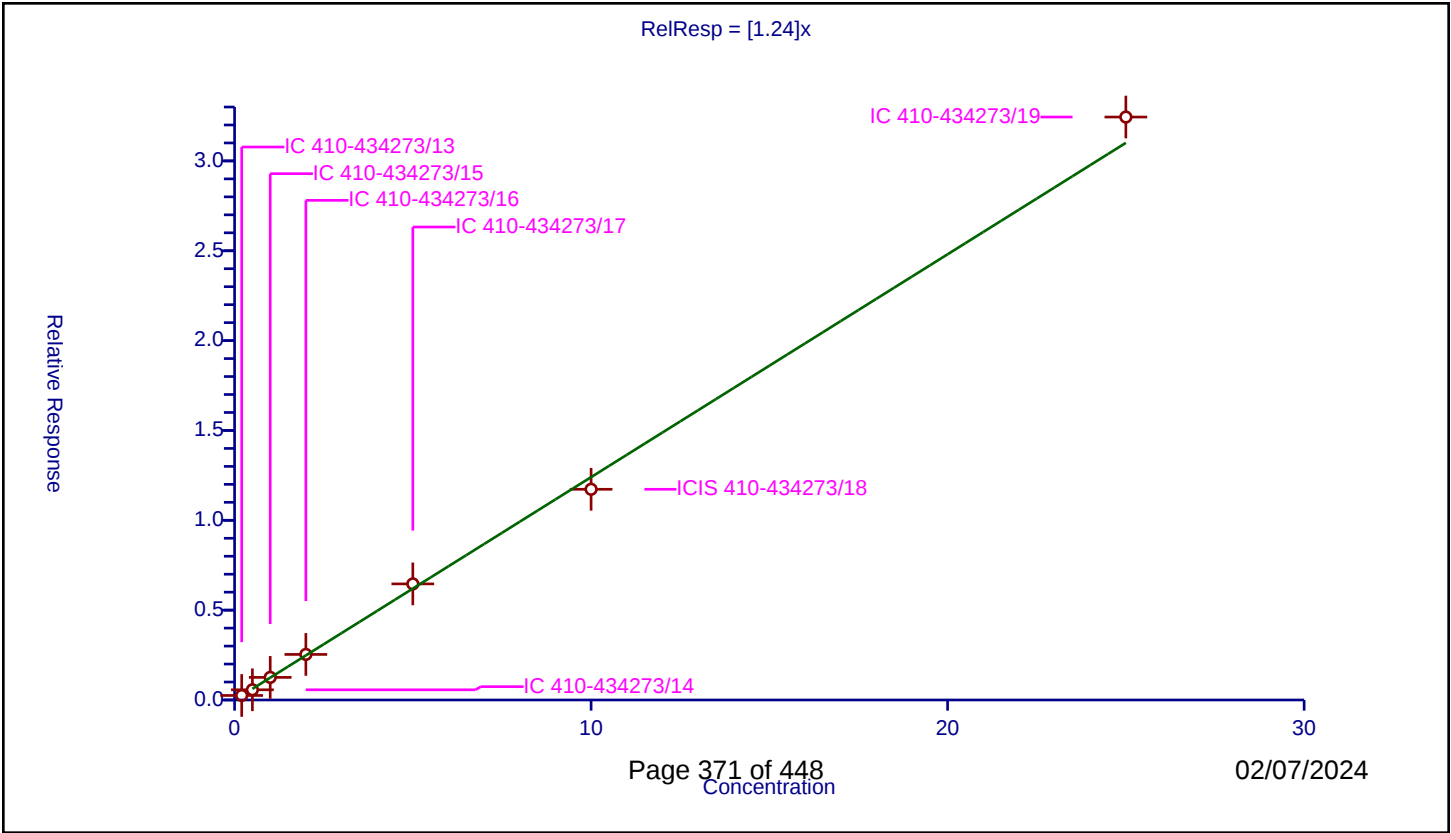
/ 1,2,3-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.24

Error Coefficients	
Standard Error:	1320000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.251608	10.0	801167.0	1.25804	Y
2	IC 410-434273/14	0.5	0.567495	10.0	872800.0	1.134991	Y
3	IC 410-434273/15	1.0	1.257758	10.0	804654.0	1.257758	Y
4	IC 410-434273/16	2.0	2.536138	10.0	813126.0	1.268069	Y
5	IC 410-434273/17	5.0	6.461249	10.0	859484.0	1.29225	Y
6	ICIS 410-434273/18	10.0	11.725713	10.0	947359.0	1.172571	Y
7	IC 410-434273/19	25.0	32.441605	10.0	914845.0	1.297664	Y



Calibration

/ Benzyl chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

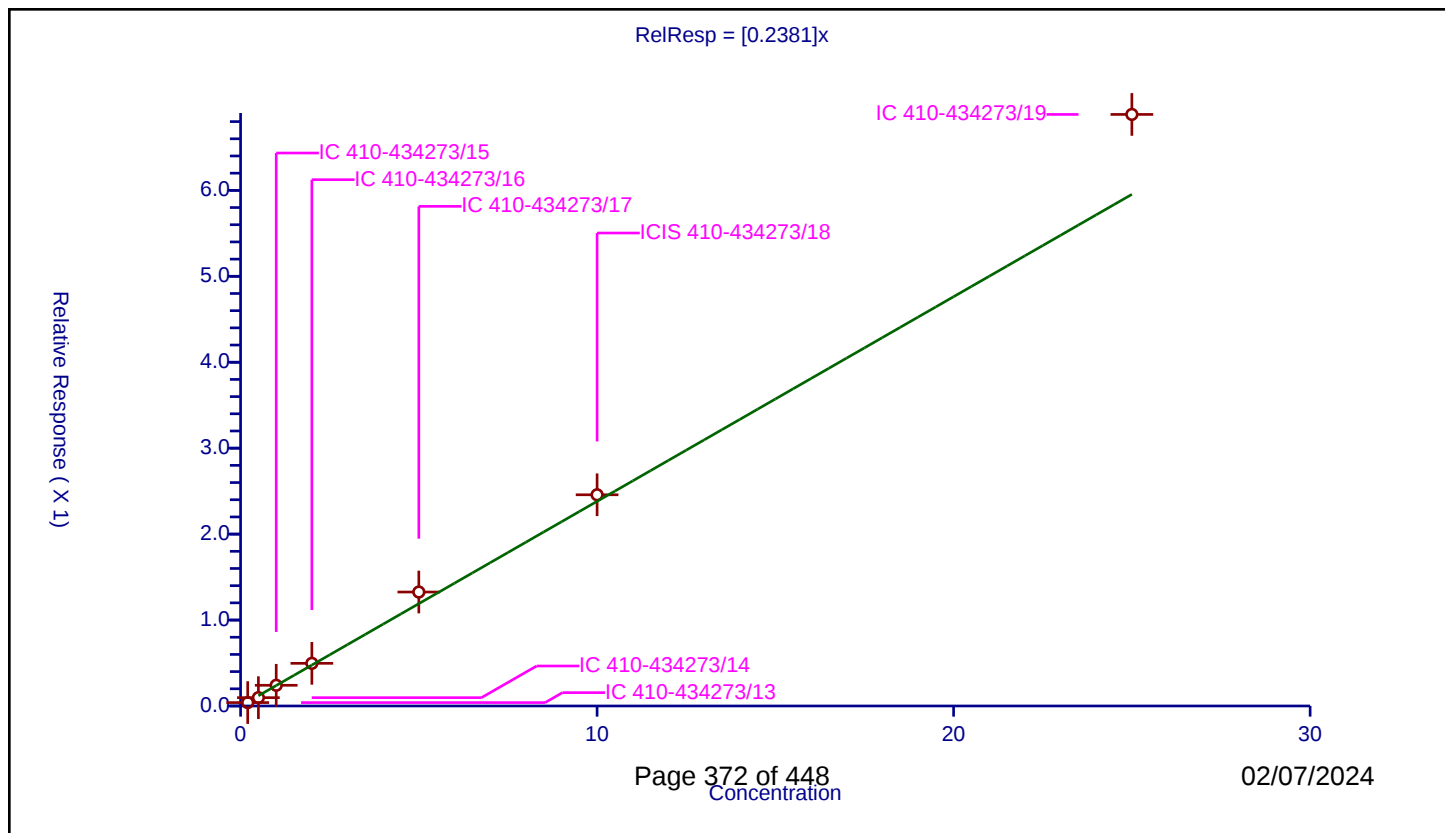
Curve Coefficients

Intercept: 0
Slope: 0.2381

Error Coefficients

Standard Error: 279000
Relative Standard Error: 13.1
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.039492	10.0	801167.0	0.197462	Y
2	IC 410-434273/14	0.5	0.097078	10.0	872800.0	0.194157	Y
3	IC 410-434273/15	1.0	0.240799	10.0	804654.0	0.240799	Y
4	IC 410-434273/16	2.0	0.496393	10.0	813126.0	0.248196	Y
5	IC 410-434273/17	5.0	1.325923	10.0	859484.0	0.265185	Y
6	ICIS 410-434273/18	10.0	2.457769	10.0	947359.0	0.245777	Y
7	IC 410-434273/19	25.0	6.883614	10.0	914845.0	0.275345	Y



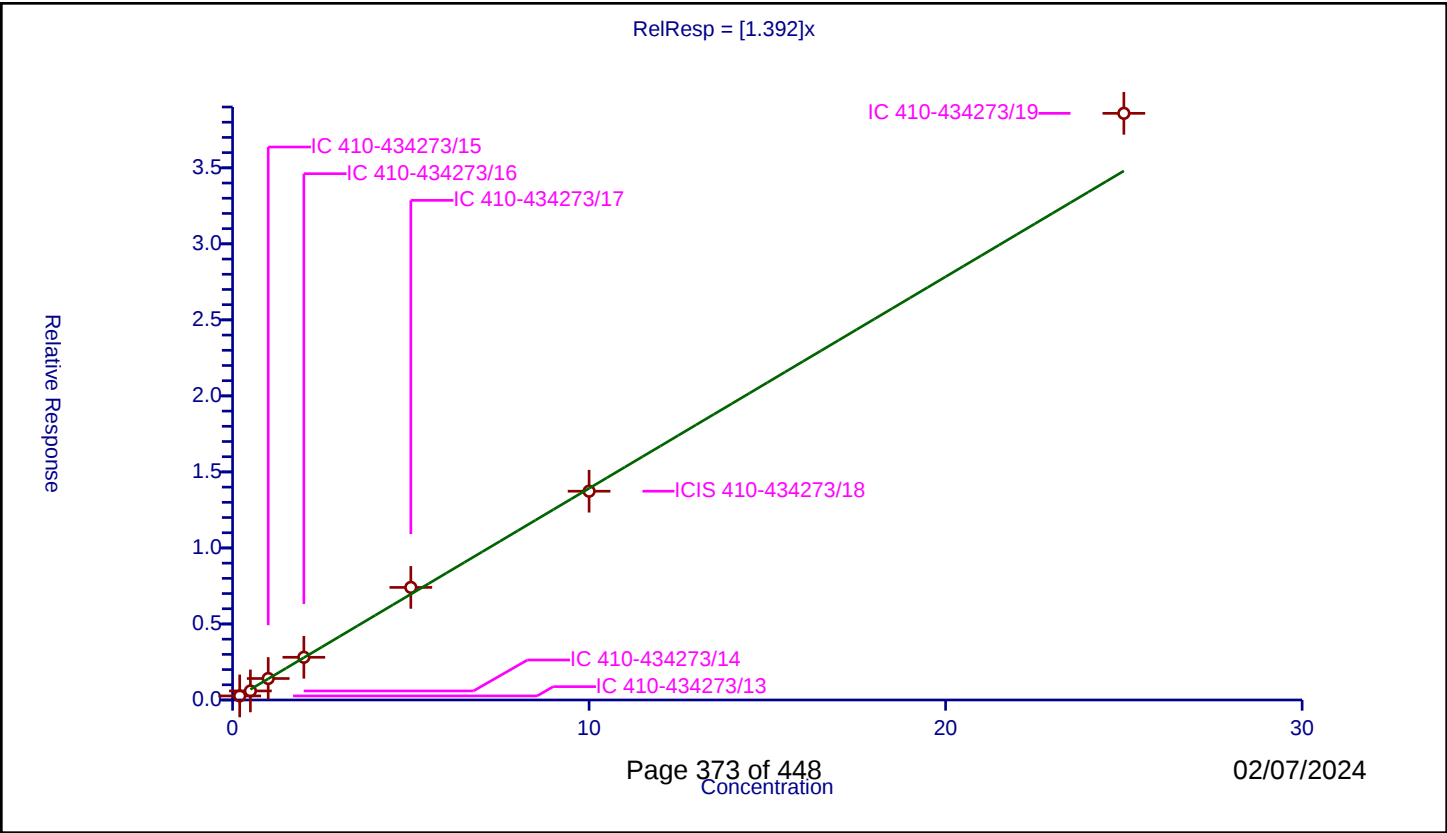
Calibration

/ 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:	1.392
Error Coefficients	
Standard Error:	1560000
Relative Standard Error:	8.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.267759	10.0	801167.0	1.338797	Y
2	IC 410-434273/14	0.5	0.594684	10.0	872800.0	1.189368	Y
3	IC 410-434273/15	1.0	1.412881	10.0	804654.0	1.412881	Y
4	IC 410-434273/16	2.0	2.808544	10.0	813126.0	1.404272	Y
5	IC 410-434273/17	5.0	7.404361	10.0	859484.0	1.480872	Y
6	ICIS 410-434273/18	10.0	13.731162	10.0	947359.0	1.373116	Y
7	IC 410-434273/19	25.0	38.584624	10.0	914845.0	1.543385	Y



Calibration

/ 1,2-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

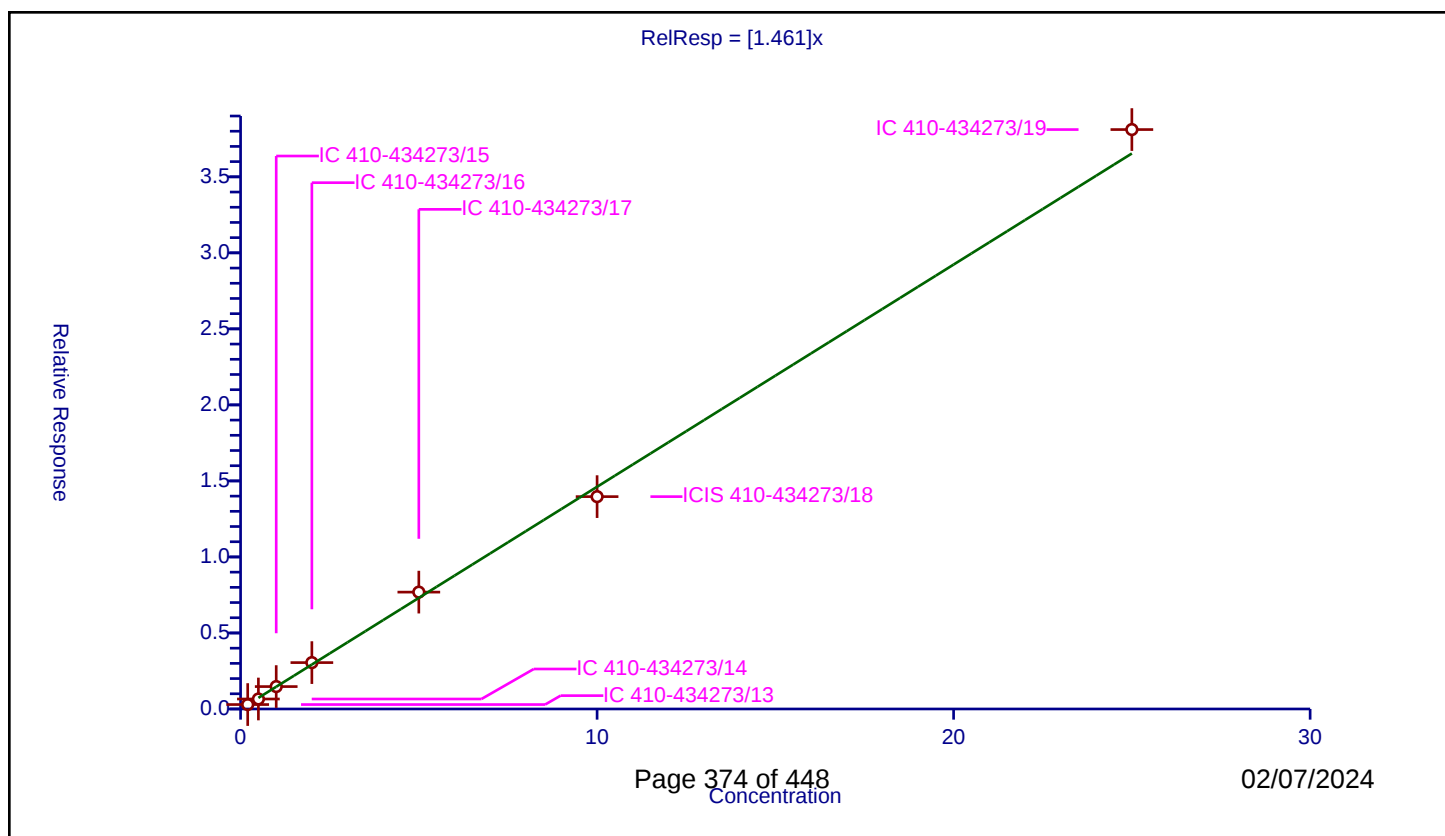
Curve Coefficients

Intercept: 0
Slope: 1.461

Error Coefficients

Standard Error: 1550000
Relative Standard Error: 5.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.291749	10.0	801167.0	1.458747	Y
2	IC 410-434273/14	0.5	0.656966	10.0	872800.0	1.313932	Y
3	IC 410-434273/15	1.0	1.473689	10.0	804654.0	1.473689	Y
4	IC 410-434273/16	2.0	3.050769	10.0	813126.0	1.525385	Y
5	IC 410-434273/17	5.0	7.687194	10.0	859484.0	1.537439	Y
6	ICIS 410-434273/18	10.0	13.966807	10.0	947359.0	1.396681	Y
7	IC 410-434273/19	25.0	38.108313	10.0	914845.0	1.524333	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

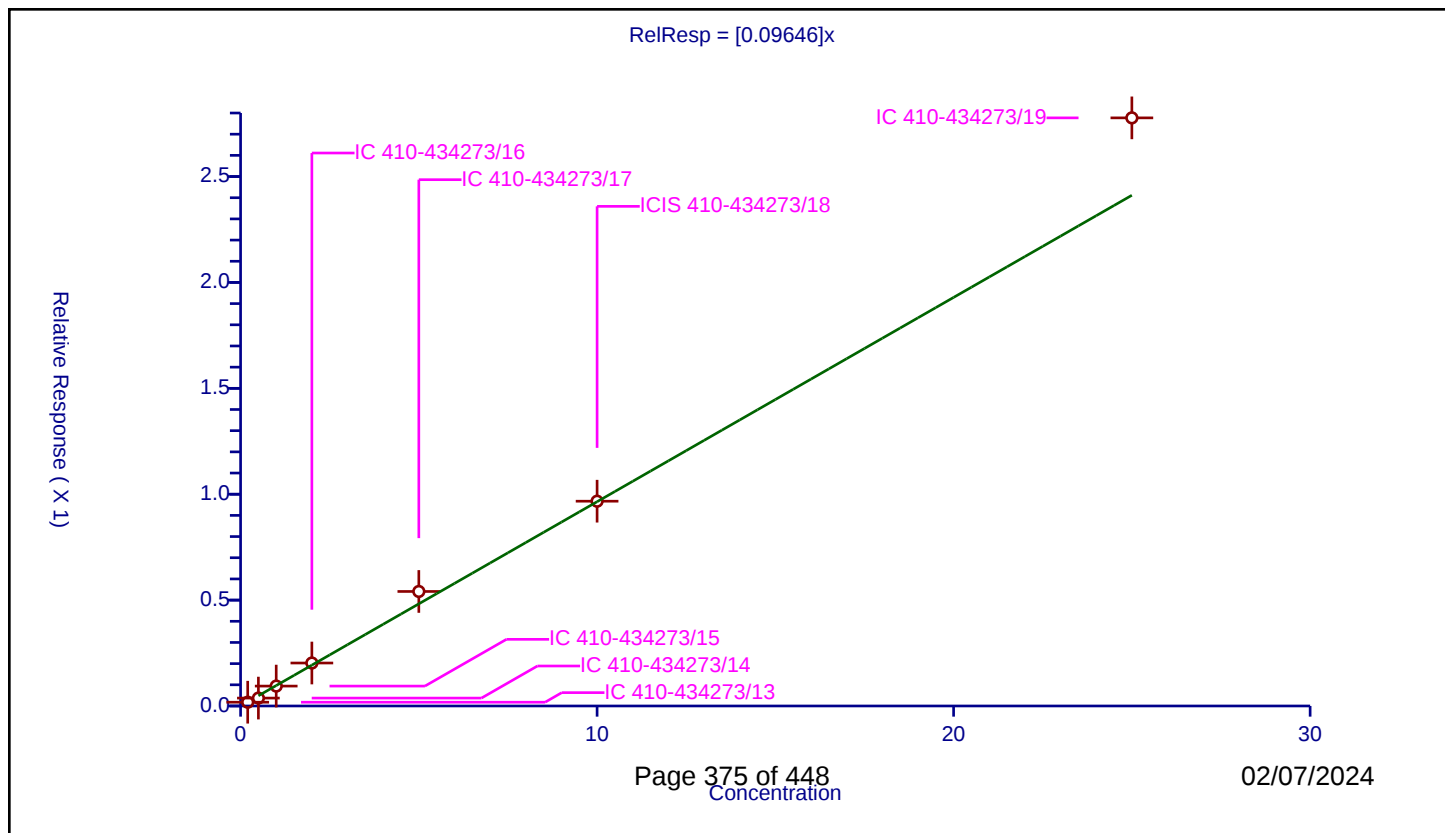
Curve Coefficients

Intercept: 0
Slope: 0.09646

Error Coefficients

Standard Error: 112000
Relative Standard Error: 12.8
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.017849	10.0	801167.0	0.089245	Y
2	IC 410-434273/14	0.5	0.037317	10.0	872800.0	0.074633	Y
3	IC 410-434273/15	1.0	0.093978	10.0	804654.0	0.093978	Y
4	IC 410-434273/16	2.0	0.202896	10.0	813126.0	0.101448	Y
5	IC 410-434273/17	5.0	0.540801	10.0	859484.0	0.10816	Y
6	ICIS 410-434273/18	10.0	0.967004	10.0	947359.0	0.0967	Y
7	IC 410-434273/19	25.0	2.777061	10.0	914845.0	0.111082	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

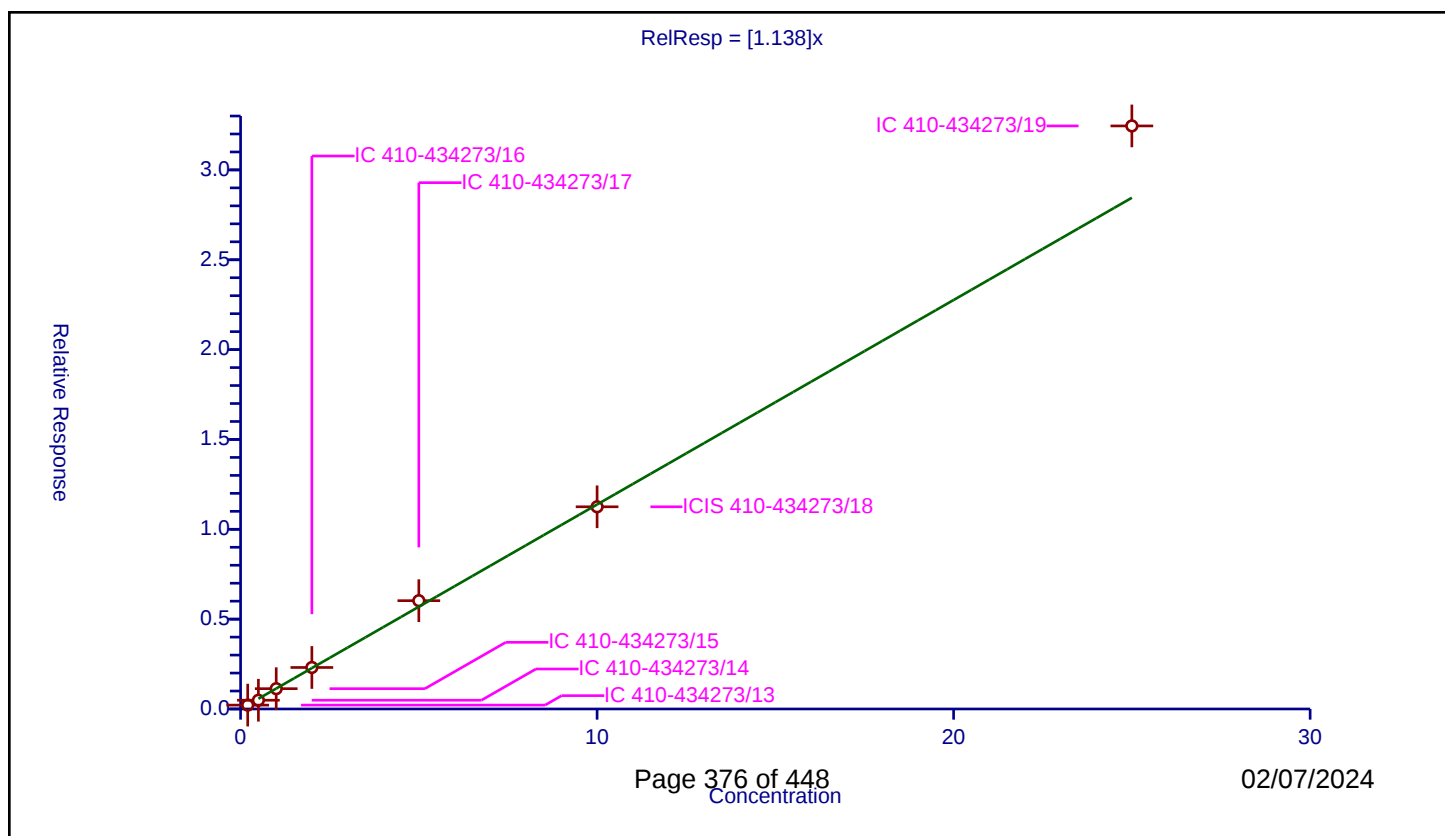
Curve Coefficients

Intercept: 0
Slope: 1.138

Error Coefficients

Standard Error: 1310000
Relative Standard Error: 8.9
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.215561	10.0	801167.0	1.077803	Y
2	IC 410-434273/14	0.5	0.486939	10.0	872800.0	0.973877	Y
3	IC 410-434273/15	1.0	1.130399	10.0	804654.0	1.130399	Y
4	IC 410-434273/16	2.0	2.310466	10.0	813126.0	1.155233	Y
5	IC 410-434273/17	5.0	6.02771	10.0	859484.0	1.205542	Y
6	ICIS 410-434273/18	10.0	11.252397	10.0	947359.0	1.12524	Y
7	IC 410-434273/19	25.0	32.448458	10.0	914845.0	1.297938	Y



Calibration

/ 1,2,4-Trichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

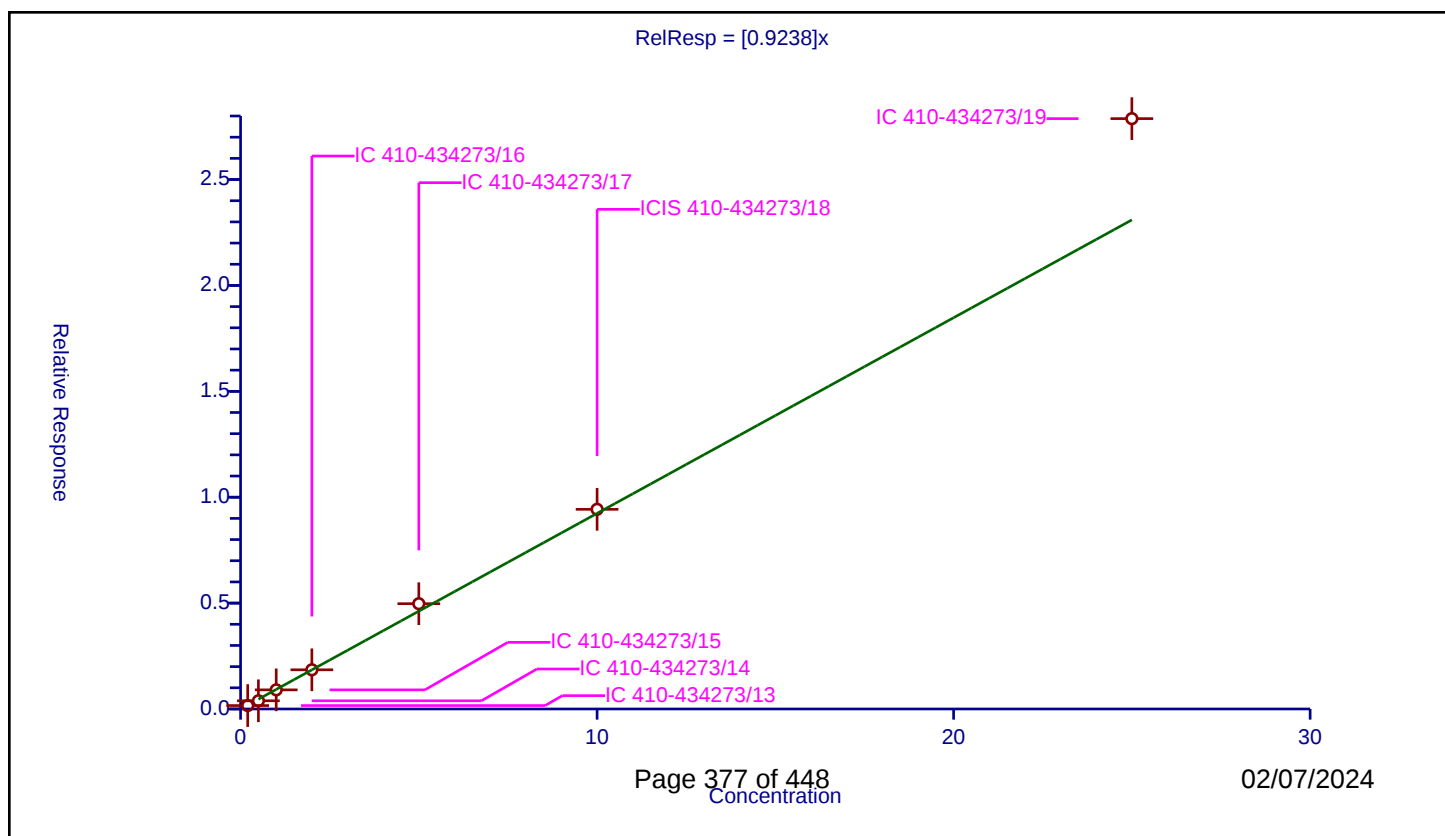
Curve Coefficients

Intercept: 0
 Slope: 0.9238

Error Coefficients

Standard Error: 1120000
 Relative Standard Error: 12.3
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.162238	10.0	801167.0	0.811192	Y
2	IC 410-434273/14	0.5	0.387007	10.0	872800.0	0.774015	Y
3	IC 410-434273/15	1.0	0.903593	10.0	804654.0	0.903593	Y
4	IC 410-434273/16	2.0	1.850611	10.0	813126.0	0.925306	Y
5	IC 410-434273/17	5.0	4.971913	10.0	859484.0	0.994383	Y
6	ICIS 410-434273/18	10.0	9.428538	10.0	947359.0	0.942854	Y
7	IC 410-434273/19	25.0	27.876034	10.0	914845.0	1.115041	Y



Calibration

/ Hexachlorobutadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

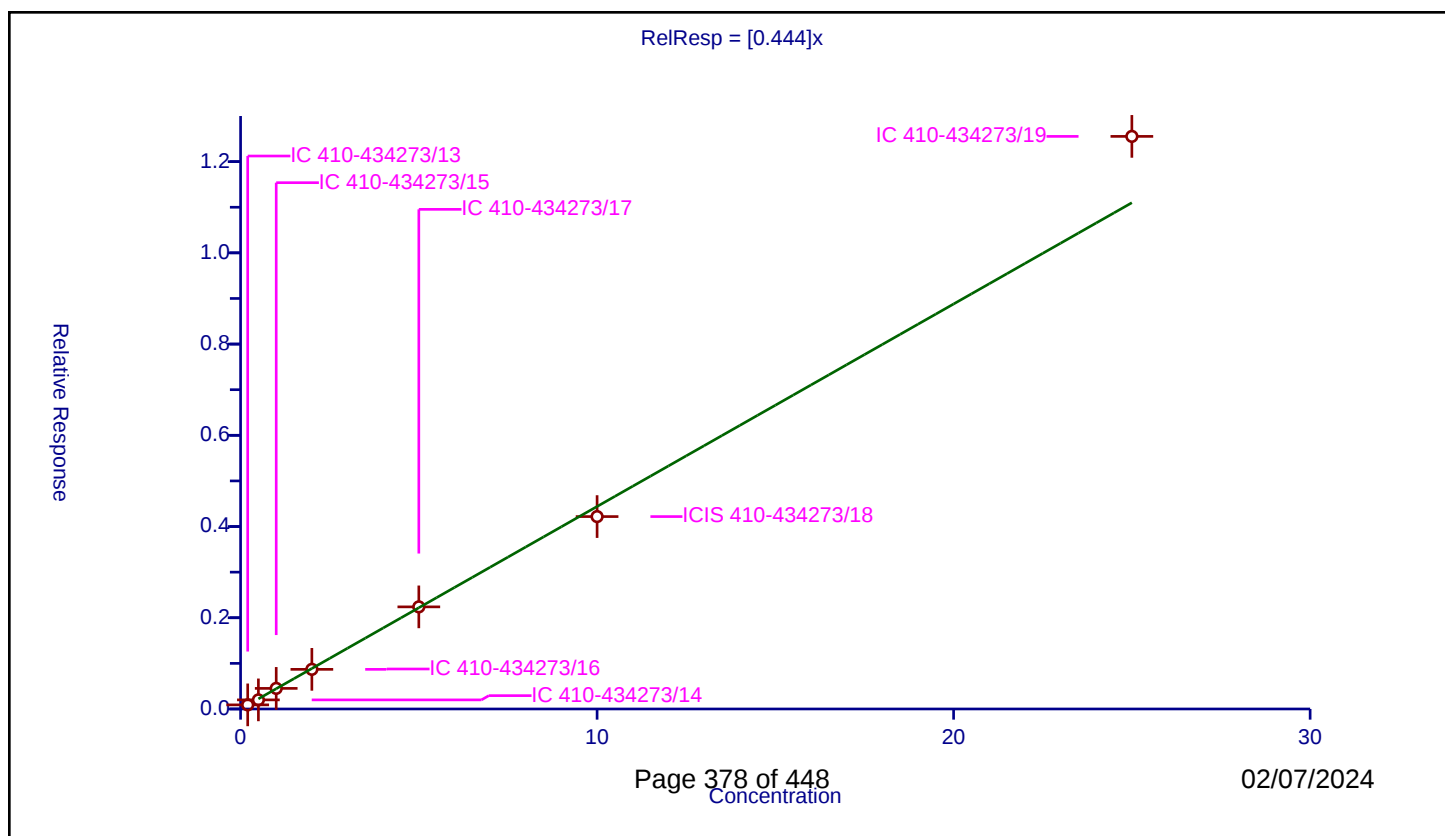
Curve Coefficients

Intercept: 0
Slope: 0.444

Error Coefficients

Standard Error: 504000
Relative Standard Error: 7.2
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.090206	10.0	801167.0	0.45103	Y
2	IC 410-434273/14	0.5	0.199393	10.0	872800.0	0.398786	Y
3	IC 410-434273/15	1.0	0.451672	10.0	804654.0	0.451672	Y
4	IC 410-434273/16	2.0	0.868857	10.0	813126.0	0.434428	Y
5	IC 410-434273/17	5.0	2.239053	10.0	859484.0	0.447811	Y
6	ICIS 410-434273/18	10.0	4.218158	10.0	947359.0	0.421816	Y
7	IC 410-434273/19	25.0	12.553055	10.0	914845.0	0.502122	Y



Calibration

/ Naphthalene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

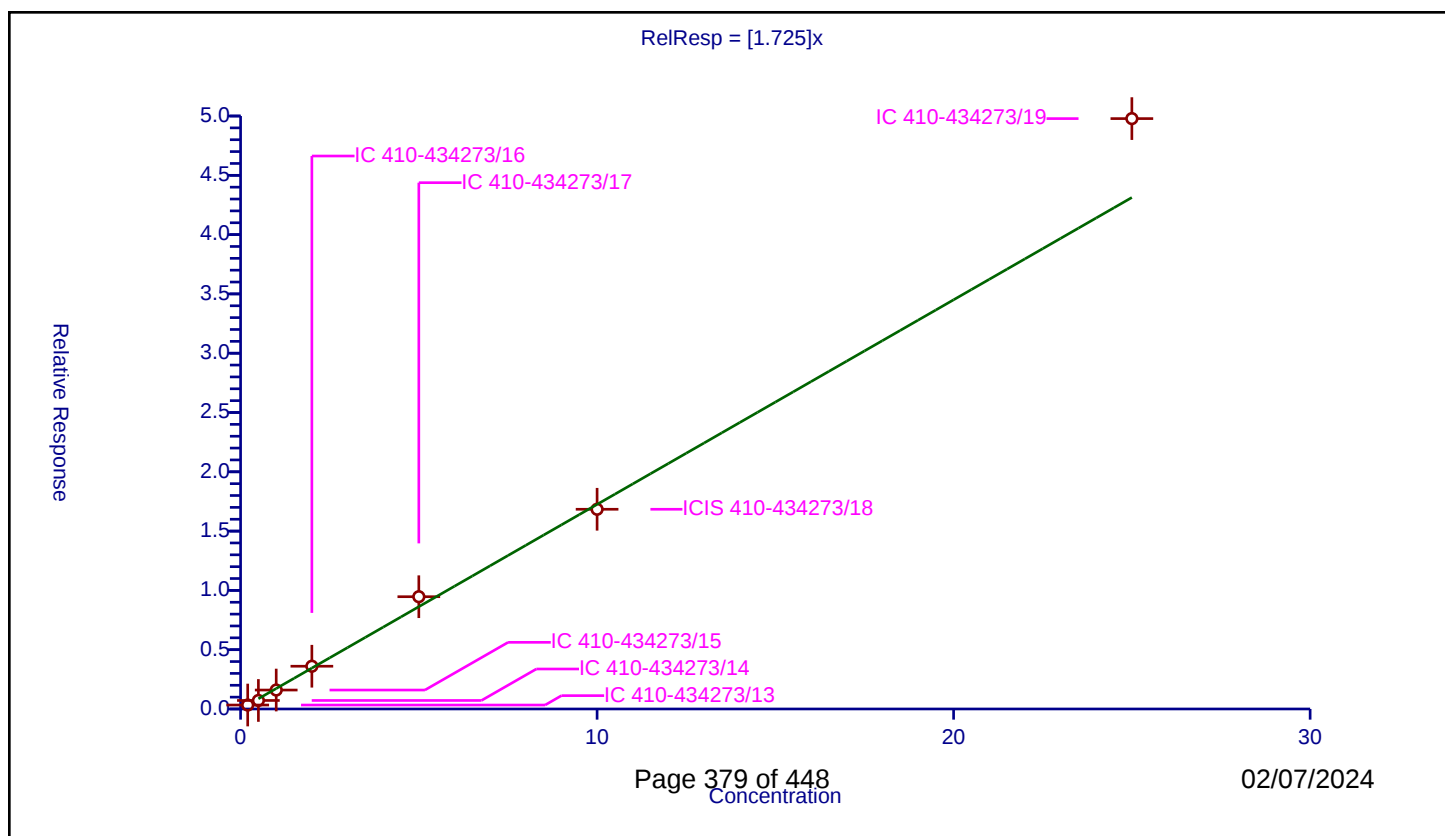
Curve Coefficients

Intercept: 0
Slope: 1.725

Error Coefficients

Standard Error: 2000000
Relative Standard Error: 10.8
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.334013	10.0	801167.0	1.670064	Y
2	IC 410-434273/14	0.5	0.718469	10.0	872800.0	1.436939	Y
3	IC 410-434273/15	1.0	1.597569	10.0	804654.0	1.597569	Y
4	IC 410-434273/16	2.0	3.60489	10.0	813126.0	1.802445	Y
5	IC 410-434273/17	5.0	9.468227	10.0	859484.0	1.893645	Y
6	ICIS 410-434273/18	10.0	16.8401	10.0	947359.0	1.68401	Y
7	IC 410-434273/19	25.0	49.782695	10.0	914845.0	1.991308	Y



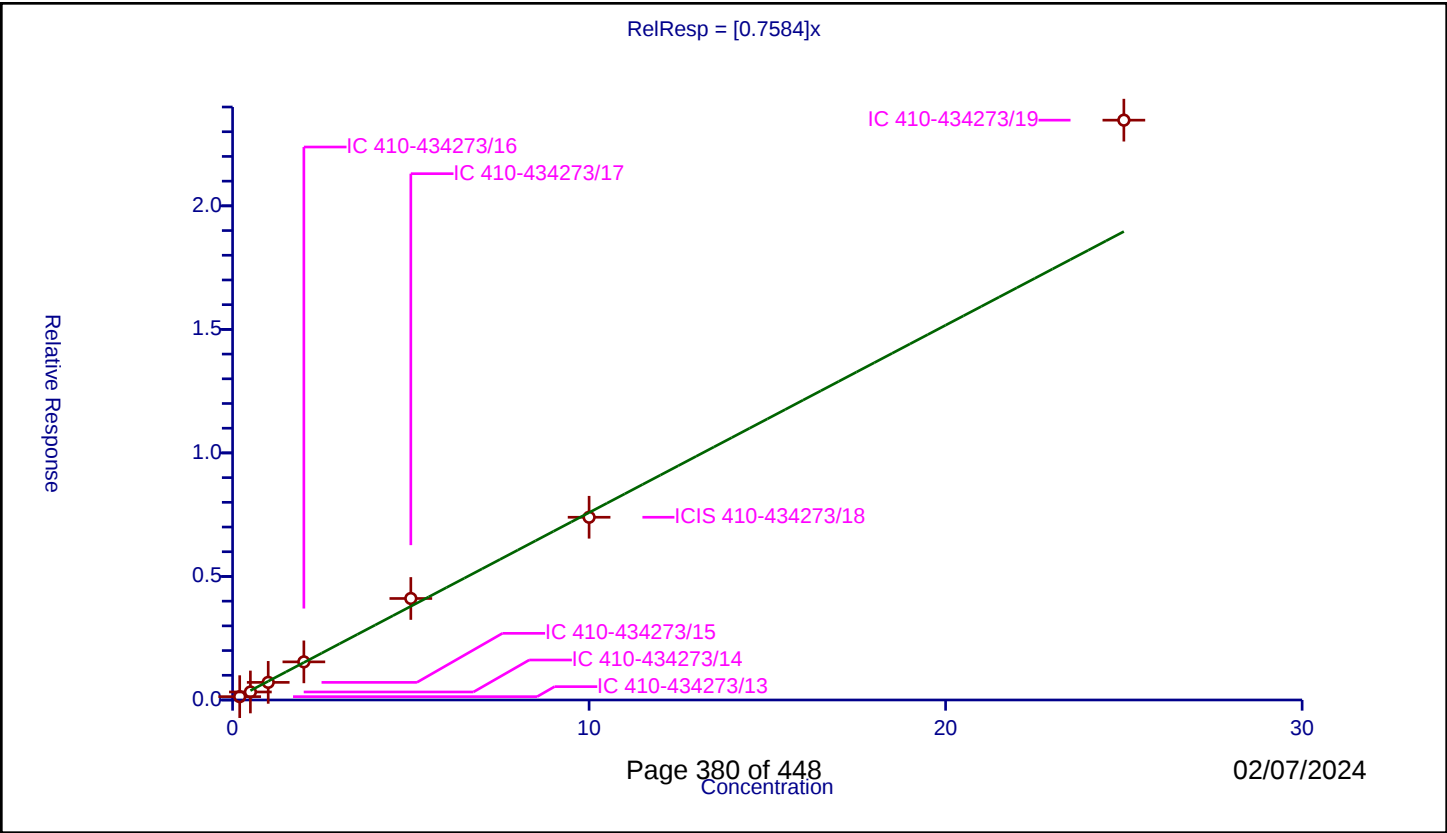
Calibration

/ 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:	0.7584
Error Coefficients	
Standard Error:	935000
Relative Standard Error:	12.9
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-434273/13	0.2	0.13519	10.0	801167.0	0.675951	Y
2	IC 410-434273/14	0.5	0.324565	10.0	872800.0	0.649129	Y
3	IC 410-434273/15	1.0	0.712642	10.0	804654.0	0.712642	Y
4	IC 410-434273/16	2.0	1.542861	10.0	813126.0	0.77143	Y
5	IC 410-434273/17	5.0	4.108011	10.0	859484.0	0.821602	Y
6	ICIS 410-434273/18	10.0	7.395475	10.0	947359.0	0.739548	Y
7	IC 410-434273/19	25.0	23.468085	10.0	914845.0	0.938723	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.: _____

Lab Sample ID: ICV 410-434273/21

Calibration Date: 10/23/2023 05:17

Instrument ID: 19930

Calib Start Date: 10/23/2023 02:29

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

Calib End Date: 10/23/2023 04:35

Lab File ID: IO22X20.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	0.3964	0.3537	0.1000	4.46	5.00	-10.8	30.0
Chloromethane	Ave	0.3720	0.3218	0.1000	4.33	5.00	-13.5	30.0
Vinyl chloride	Ave	0.3674	0.3369	0.1000	4.59	5.00	-8.3	30.0
1,3-Butadiene	Ave	0.3586	0.2928		4.08	5.00	-18.3	30.0
Bromomethane	Ave	0.3007	0.2769	0.1000	4.61	5.00	-7.9	30.0
Chloroethane	Ave	0.2167	0.2124	0.1000	4.90	5.00	-2.0	30.0
Dichlorofluoromethane	Ave	0.6454	0.5667		4.39	5.00	-12.2	30.0
Trichlorofluoromethane	Ave	0.5257	0.5034	0.1000	4.79	5.00	-4.2	30.0
Ethyl ether	Ave	0.1942	0.1809		4.66	5.01	-6.9	30.0
Freon 123a	Ave	0.3378	0.3285		4.86	5.00	-2.8	30.0
Acrolein	Ave	1.761	1.700		36.2	37.5	-3.5	30.0
1,1-Dichloroethene	Ave	0.2307	0.2621	0.1000	5.68	5.00	13.6	30.0
Acetone	Ave	2.269	2.081	0.1000	57.3	62.5	-8.3	30.0
Freon 113	Ave	0.2463	0.2510	0.1000	5.10	5.00	1.9	30.0
Methyl iodide	Ave	0.5033	0.5258		5.22	5.00	4.5	30.0
Ethyl bromide	Ave	0.2266	0.2245		5.01	5.06	-0.9	30.0
Carbon disulfide	Ave	0.6519	0.6703	0.1000	5.14	5.00	2.8	30.0
Methyl acetate	Ave	5.290	5.106	0.1000	4.83	5.00	-3.5	30.0
Allyl chloride	Ave	0.3690	0.3743		5.07	5.00	1.4	30.0
Methylene Chloride	Ave	0.2572	0.2807	0.1000	5.46	5.00	9.1	30.0
t-Butyl alcohol	Ave	0.8535	0.8781		51.4	50.0	2.9	30.0
Acrylonitrile	Ave	2.595	2.761		26.6	25.0	6.4	30.0
Methyl tert-butyl ether	Ave	0.7047	0.7163	0.1000	5.08	5.00	1.7	30.0
trans-1,2-Dichloroethene	Ave	0.2660	0.2927	0.1000	5.50	5.00	10.0	30.0
n-Hexane	Ave	0.3128	0.3366		5.38	5.00	7.6	30.0
1,1-Dichloroethane	Ave	0.4738	0.5285	0.2000	5.58	5.00	11.6	30.0
di-Isopropyl ether	Ave	0.7664	0.7964		5.20	5.00	3.9	30.0
2-Chloro-1,3-butadiene	Ave	0.4127	0.4412		5.34	5.00	6.9	30.0
Ethyl t-butyl ether	Ave	0.7877	0.8403		5.33	5.00	6.7	30.0
2-Butanone (MEK)	Ave	3.981	3.800	0.1000	59.7	62.5	-4.5	30.0
cis-1,2-Dichloroethene	Ave	0.3045	0.3384	0.1000	5.56	5.00	11.1	30.0
2,2-Dichloropropane	Ave	0.4593	0.4969		5.41	5.00	8.2	30.0
Propionitrile	Ave	1.068	1.018		35.7	37.5	-4.7	30.0
Methacrylonitrile	Ave	3.919	3.967		38.0	37.5	1.2	30.0
Bromochloromethane	Ave	0.1401	0.1552		5.54	5.00	10.8	30.0
Tetrahydrofuran	Ave	1.196	1.193		25.0	25.0	-0.2	30.0
Chloroform	Ave	0.5228	0.5631	0.2000	5.39	5.00	7.7	30.0
1,1,1-Trichloroethane	Ave	0.4865	0.5509	0.1000	5.66	5.00	13.2	30.0
Cyclohexane	Ave	0.4054	0.4317	0.1000	5.33	5.00	6.5	30.0
Carbon tetrachloride	Ave	0.4371	0.4939	0.1000	5.65	5.00	13.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.: _____

Lab Sample ID: ICV 410-434273/21

Calibration Date: 10/23/2023 05:17

Instrument ID: 19930

Calib Start Date: 10/23/2023 02:29

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

Calib End Date: 10/23/2023 04:35

Lab File ID: IO22X20.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	0.3748	0.4168		5.56	5.00	11.2	30.0
Isobutyl alcohol	Ave	0.2923	0.2721		116	125	-6.9	30.0
Benzene	Ave	1.099	1.202	0.5000	5.47	5.00	9.3	30.0
1,2-Dichloroethane	Ave	0.3402	0.3649	0.1000	5.36	5.00	7.3	30.0
t-Amyl methyl ether	Ave	0.7418	0.7757		5.23	5.00	4.6	30.0
n-Heptane	Ave	0.3196	0.3484		5.45	5.00	9.0	30.0
n-Butanol	Ave	0.2136	0.2243		263	250	5.0	30.0
Trichloroethene	Ave	0.3120	0.3397	0.2000	5.44	5.00	8.9	30.0
Methylcyclohexane	Ave	0.4641	0.5066	0.1000	5.46	5.00	9.2	30.0
1,2-Dichloropropane	Ave	0.2671	0.2961	0.1000	5.54	5.00	10.9	30.0
Methyl methacrylate	Ave	7.597	7.623		5.02	5.00	0.3	30.0
1,4-Dioxane	Ave	0.0501	0.0559	0.0050	139	125	11.4	30.0
Dibromomethane	Ave	0.1460	0.1569		5.37	5.00	7.4	30.0
Bromodichloromethane	Ave	0.3688	0.4063	0.2000	5.51	5.00	10.2	30.0
2-Nitropropane	Ave	2.788	2.537		4.55	5.00	-9.0	30.0
1-Bromo-2-chloroethane	Ave	0.2750	0.2851		5.18	5.00	3.7	30.0
cis-1,3-Dichloropropene	Ave	0.4189	0.4446	0.2000	5.31	5.00	6.1	30.0
4-Methyl-2-pentanone (MIBK)	Ave	10.54	10.30	0.1000	61.1	62.5	-2.3	30.0
Toluene	Ave	0.9445	1.026	0.4000	5.43	5.00	8.6	30.0
trans-1,3-Dichloropropene	Ave	0.4431	0.4894	0.1000	5.52	5.00	10.4	30.0
Ethyl methacrylate	Ave	0.3715	0.3874		5.21	5.00	4.3	30.0
1,1,2-Trichloroethane	Ave	0.2631	0.2791	0.1000	5.30	5.00	6.1	30.0
Tetrachloroethene	Ave	0.4895	0.5451	0.2000	5.57	5.00	11.4	30.0
1,3-Dichloropropane	Ave	0.4257	0.4558		5.35	5.00	7.1	30.0
2-Hexanone	Ave	7.562	7.197	0.1000	59.5	62.5	-4.8	30.0
Dibromochloromethane	Ave	0.3507	0.3866		5.51	5.00	10.2	30.0
1,2-Dibromoethane (EDB)	Ave	0.2531	0.2781	0.1000	5.49	5.00	9.9	30.0
1-Chlorohexane	Ave	0.5291	0.5264		4.97	5.00	-0.5	30.0
Chlorobenzene	Ave	1.083	1.181	0.5000	5.45	5.00	9.0	30.0
1,1,1,2-Tetrachloroethane	Ave	0.4054	0.4477		5.52	5.00	10.4	30.0
Ethylbenzene	Ave	1.857	2.046	0.1000	5.51	5.00	10.2	30.0
m&p-Xylene	Ave	0.7453	0.8198	0.1000	11.0	10.0	10.0	30.0
o-Xylene	Ave	0.7397	0.8055	0.3000	5.44	5.00	8.9	30.0
Styrene	Ave	1.162	1.304	0.3000	5.61	5.00	12.2	30.0
Bromoform	Ave	0.2366	0.2522	0.1000	5.33	5.00	6.6	30.0
Isopropylbenzene	Ave	1.828	2.169	0.1000	5.93	5.00	18.6	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5554	0.5701	0.3000	5.13	5.00	2.6	30.0
Bromobenzene	Ave	0.8171	0.8837		5.41	5.00	8.1	30.0
trans-1,4-Dichloro-2-butene	Ave	4.343	4.080		23.5	25.0	-6.1	30.0
1,2,3-Trichloropropane	Ave	0.1621	0.1773		5.47	5.00	9.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

Lab Sample ID: ICV 410-434273/21

Calibration Date: 10/23/2023 05:17

Instrument ID: 19930

Calib Start Date: 10/23/2023 02:29

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

Calib End Date: 10/23/2023 04:35

Lab File ID: IO22X20.D

Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Propylbenzene	Ave	3.623	4.035		5.57	5.00	11.3	30.0
2-Chlorotoluene	Ave	0.7780	0.8474		5.45	5.00	8.9	30.0
1,3,5-Trimethylbenzene	Ave	2.704	3.003		5.55	5.00	11.1	30.0
4-Chlorotoluene	Ave	0.7806	0.8556		5.48	5.00	9.6	30.0
tert-Butylbenzene	Ave	0.6531	0.7197		5.51	5.00	10.2	30.0
Pentachloroethane	Ave	0.5259	0.5390		5.12	5.00	2.5	30.0
1,2,4-Trimethylbenzene	Ave	2.730	3.035		5.56	5.00	11.2	30.0
sec-Butylbenzene	Ave	3.455	3.887		5.62	5.00	12.5	30.0
1,3-Dichlorobenzene	Ave	1.554	1.712	0.6000	5.51	5.00	10.2	30.0
p-Isopropyltoluene	Ave	3.046	3.426		5.62	5.00	12.5	30.0
1,4-Dichlorobenzene	Ave	1.604	1.715	0.5000	5.35	5.00	6.9	30.0
1,2,3-Trimethylbenzene	Ave	1.240	1.289		5.20	5.00	3.9	30.0
Benzyl chloride	Ave	0.2381	0.2517		5.29	5.00	5.7	30.0
n-Butylbenzene	Ave	1.392	1.564		5.62	5.00	12.3	30.0
1,2-Dichlorobenzene	Ave	1.461	1.591	0.4000	5.44	5.00	8.9	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0965	0.1041	0.0500	5.39	5.00	7.9	30.0
1,3,5-Trichlorobenzene	Ave	1.138	1.266		5.56	5.00	11.2	30.0
1,2,4-Trichlorobenzene	Ave	0.9238	1.044	0.2000	5.65	5.00	13.0	30.0
Hexachlorobutadiene	Ave	0.4440	0.5137		5.79	5.00	15.7	30.0
Naphthalene	Ave	1.725	1.891		5.48	5.00	9.6	30.0
1,2,3-Trichlorobenzene	Ave	0.7584	0.8410		5.54	5.00	10.9	30.0
2-ethoxy-2-methyl butane	None					5.00		30.0
2-Methylnaphthalene	None					5.00		30.0
Isopropyl alcohol	None					37.5		30.0
p-Diethylbenzene	None					5.00		30.0
Pentane	None					5.00		30.0
Dibromofluoromethane (Surr)	Ave	0.2634	0.2640		10.0	10.0	0.2	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0517	0.0520		10.1	10.0	0.6	30.0
Toluene-d8 (Surr)	Ave	1.277	1.277		10.0	10.0	-0.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4832	0.4838		10.0	10.0	0.1	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X20.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 23-Oct-2023 05:17:30 ALS Bottle#: 20 Worklist Smp#: 21
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0097328-021
 Misc. Info.: LG ICV
 Operator ID: gaw91131 Instrument ID: 19930
 Sublist:
 Method: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 31-Oct-2023 09:22:12 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1687

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.825	1.825	0.000	99	317085	5.00	4.46	
4 Chloromethane	50	2.014	2.007	0.007	99	288454	5.00	4.33	
5 Vinyl chloride	62	2.117	2.117	0.000	98	301980	5.00	4.59	
6 Butadiene	39	2.123	2.123	0.000	92	262491	5.00	4.08	
7 Bromomethane	94	2.422	2.422	0.000	91	248248	5.00	4.61	
8 Chloroethane	64	2.495	2.501	-0.006	100	190381	5.00	4.90	
9 Dichlorofluoromethane	67	2.721	2.721	0.000	97	508001	5.00	4.39	
10 Trichlorofluoromethane	101	2.788	2.788	0.000	97	451241	5.00	4.79	
11 Ethyl ether	59	2.995	2.995	0.000	90	162290	5.01	4.66	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.087	3.086	0.001	89	294477	5.00	4.86	
14 Acrolein	56	3.154	3.147	0.007	97	212148	37.5	36.2	
15 1,1-Dichloroethene	96	3.282	3.282	0.000	99	234936	5.00	5.68	
16 Acetone	43	3.306	3.306	0.000	99	432840	62.5	57.3	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.330	3.330	0.000	91	224990	5.00	5.10	
18 Iodomethane	142	3.465	3.464	0.001	99	471348	5.00	5.22	
19 Ethyl bromide	108	3.483	3.489	-0.006	99	203695	5.06	5.01	
20 Carbon disulfide	76	3.568	3.568	0.000	100	600911	5.00	5.14	
23 Methyl acetate	43	3.696	3.696	0.000	97	84965	5.00	4.83	M
24 3-Chloro-1-propene	41	3.721	3.714	0.007	87	335529	5.00	5.07	
25 Methylene Chloride	84	3.891	3.891	0.000	90	251608	5.00	5.46	
* 26 t-Butyl alcohol-d10 (IS)	65	3.903	3.903	0.000	97	166398	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.019	4.013	0.006	99	146120	50.0	51.4	
28 Acrylonitrile	53	4.202	4.202	0.000	98	229745	25.0	26.6	
29 Methyl tert-butyl ether	73	4.275	4.263	0.012	95	642151	5.00	5.08	
30 trans-1,2-Dichloroethene	96	4.281	4.281	0.000	99	262357	5.00	5.50	
31 Hexane	57	4.702	4.702	0.000	93	301734	5.00	5.38	
32 1,1-Dichloroethane	63	4.940	4.940	0.000	96	473810	5.00	5.58	
35 Isopropyl ether	45	5.001	5.001	0.000	91	713903	5.00	5.20	
36 2-Chloro-1,3-butadiene	53	5.050	5.050	0.000	93	395494	5.00	5.34	
37 Tert-butyl ethyl ether	59	5.543	5.549	-0.006	97	753291	5.00	5.33	
38 2-Butanone (MEK)	43	5.751	5.751	0.000	99	790311	62.5	59.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	96	5.787	5.781	0.006	82	303391	5.00	5.56	
40 2,2-Dichloropropane	77	5.799	5.799	0.000	88	445447	5.00	5.41	
43 Propionitrile	54	5.848	5.836	0.012	98	127081	37.5	35.7	
45 Methacrylonitrile	67	6.055	6.055	0.000	90	495062	37.5	38.0	
46 Chlorobromomethane	128	6.116	6.116	0.000	87	139141	5.00	5.54	
47 Tetrahydrofuran	71	6.135	6.135	0.000	80	99288	25.0	25.0	
48 Chloroform	83	6.275	6.275	0.000	94	504757	5.00	5.39	
\$ 49 Dibromofluoromethane (Surr)	113	6.494	6.488	0.006	94	473344	10.0	10.0	
50 1,1,1-Trichloroethane	97	6.494	6.500	-0.006	98	493892	5.00	5.66	
51 Cyclohexane	56	6.604	6.604	0.000	90	387035	5.00	5.33	
54 Carbon tetrachloride	117	6.714	6.714	0.000	96	442786	5.00	5.65	
53 1,1-Dichloropropene	75	6.720	6.720	0.000	95	373667	5.00	5.56	
55 Isobutyl alcohol	41	6.885	6.878	0.007	94	113180	125.0	116.3	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.946	6.952	-0.006	84	93251	10.0	10.1	
57 Benzene	78	6.982	6.982	0.000	97	1077146	5.00	5.47	
58 1,2-Dichloroethane	62	7.055	7.055	0.000	98	327140	5.00	5.36	
60 Tert-amyl methyl ether	73	7.177	7.177	0.000	98	695384	5.00	5.23	
* 61 Fluorobenzene (IS)	96	7.391	7.391	0.000	99	1792895	10.0	10.0	
62 n-Heptane	43	7.415	7.409	0.006	91	312349	5.00	5.45	
63 n-Butanol	56	7.787	7.781	0.006	90	186638	250.0	262.5	
64 Trichloroethene	95	7.884	7.878	0.006	97	304516	5.00	5.44	
65 Methylcyclohexane	83	8.189	8.189	0.000	90	454164	5.00	5.46	
66 1,2-Dichloropropane	63	8.208	8.214	-0.006	93	265441	5.00	5.54	
67 Methyl methacrylate	69	8.305	8.305	0.000	87	126840	5.00	5.02	
68 1,4-Dioxane	88	8.311	8.317	-0.006	29	23243	125.0	139.3	
69 Dibromomethane	93	8.323	8.323	0.000	91	140639	5.00	5.37	
71 Dichlorobromomethane	83	8.561	8.567	-0.006	99	364211	5.00	5.51	
72 2-Nitropropane	41	8.835	8.829	0.006	99	42223	5.00	4.55	
75 1-Bromo-2-chloroethane	63	8.957	8.957	0.000	98	255582	5.00	5.18	
76 cis-1,3-Dichloropropene	75	9.128	9.128	0.000	95	398518	5.00	5.31	
77 4-Methyl-2-pentanone (MIBK)	43	9.311	9.311	0.000	96	2142400	62.5	61.1	
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	94	1851438	10.0	10.0	
79 Toluene	92	9.530	9.530	0.000	98	743902	5.00	5.43	
97 trans-1,3-Dichloropropene	75	9.805	9.805	0.000	94	354798	5.00	5.52	
99 Ethyl methacrylate	69	9.872	9.872	0.000	88	280894	5.00	5.21	
100 1,1,2-Trichloroethane	97	10.012	10.012	0.000	92	202329	5.00	5.30	
101 Tetrachloroethene	166	10.103	10.103	0.000	98	395203	5.00	5.57	
102 1,3-Dichloropropane	76	10.183	10.183	0.000	91	330428	5.00	5.35	
103 2-Hexanone	43	10.238	10.238	0.000	96	1496865	62.5	59.5	
105 Chlorodibromomethane	129	10.402	10.402	0.000	89	280284	5.00	5.51	
106 Ethylene Dibromide	107	10.512	10.512	0.000	98	201610	5.00	5.49	
* 107 Chlorobenzene-d5 (IS)	117	10.957	10.957	0.000	85	1450000	10.0	10.0	
108 1-Chlorohexane	91	10.969	10.969	0.000	96	381650	5.00	4.97	
109 Chlorobenzene	112	10.981	10.981	0.000	95	856257	5.00	5.45	
111 1,1,1,2-Tetrachloroethane	131	11.067	11.067	0.000	95	324564	5.00	5.52	
112 Ethylbenzene	91	11.073	11.073	0.000	98	1483146	5.00	5.51	
113 m-Xylene & p-Xylene	106	11.189	11.189	0.000	93	1188778	10.0	11.0	
114 o-Xylene	106	11.524	11.524	0.000	96	583953	5.00	5.44	
115 Styrene	104	11.542	11.542	0.000	95	945698	5.00	5.61	
116 Bromoform	173	11.695	11.695	0.000	98	182818	5.00	5.33	
117 Isopropylbenzene	105	11.829	11.829	0.000	96	1572348	5.00	5.93	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.975	11.975	0.000	95	701545	10.0	10.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
121 1,1,2,2-Tetrachloroethane	83	12.079	12.079	0.000	95	251288	5.00	5.13	
122 Bromobenzene	156	12.091	12.091	0.000	92	389511	5.00	5.41	
123 trans-1,4-Dichloro-2-butene	53	12.103	12.103	0.000	94	339454	25.0	23.5	
124 1,2,3-Trichloropropane	110	12.121	12.121	0.000	83	78145	5.00	5.47	
125 N-Propylbenzene	91	12.164	12.164	0.000	99	1778402	5.00	5.57	
126 2-Chlorotoluene	126	12.237	12.237	0.000	97	373525	5.00	5.45	
127 1,3,5-Trimethylbenzene	105	12.298	12.298	0.000	94	1323757	5.00	5.55	
128 4-Chlorotoluene	126	12.329	12.329	0.000	97	377158	5.00	5.48	
129 tert-Butylbenzene	134	12.542	12.542	0.000	93	317261	5.00	5.51	
130 Pentachloroethane	167	12.573	12.572	0.000	92	237585	5.00	5.12	
131 1,2,4-Trimethylbenzene	105	12.585	12.585	0.000	97	1337991	5.00	5.56	
132 sec-Butylbenzene	105	12.707	12.707	0.000	94	1713447	5.00	5.62	
133 1,3-Dichlorobenzene	146	12.804	12.804	0.000	99	754538	5.00	5.51	
134 4-Isopropyltoluene	119	12.816	12.816	0.000	97	1510105	5.00	5.62	
* 135 1,4-Dichlorobenzene-d4	152	12.859	12.859	0.000	94	881588	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.877	12.877	0.000	95	755917	5.00	5.35	
137 1,2,3-Trimethylbenzene	120	12.890	12.889	0.001	98	568205	5.00	5.20	
138 Benzyl chloride	126	12.957	12.957	0.000	98	110951	5.00	5.29	
139 n-Butylbenzene	92	13.109	13.109	0.000	97	689195	5.00	5.62	
140 1,2-Dichlorobenzene	146	13.139	13.139	0.000	99	701328	5.00	5.44	
142 1,2-Dibromo-3-Chloropropane	155	13.682	13.682	0.000	89	45879	5.00	5.39	
143 1,3,5-Trichlorobenzene	180	13.810	13.810	0.000	98	557860	5.00	5.56	
144 1,2,4-Trichlorobenzene	180	14.231	14.231	0.000	94	460219	5.00	5.65	
145 Hexachlorobutadiene	225	14.316	14.316	0.000	96	226444	5.00	5.79	
146 Naphthalene	128	14.414	14.407	0.007	97	833689	5.00	5.48	
147 1,2,3-Trichlorobenzene	180	14.554	14.554	0.000	96	370704	5.00	5.54	
165 Isopropyl alcohol	45		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00135	Amount Added: 12.50	Units: uL	
MSV_LCS_ACROL_00136	Amount Added: 12.50	Units: uL	
LCS_ETBR_00006	Amount Added: 12.50	Units: uL	
MSV_LCS_EE_00007	Amount Added: 12.50	Units: uL	
MSV_QC_Gas826_00165	Amount Added: 12.50	Units: uL	
MSV_LCS_Penta_00033	Amount Added: 12.50	Units: uL	
MSV_LLcentISS_00009	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 31-Oct-2023 09:22:12

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X20.D

Injection Date: 23-Oct-2023 05:17:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: ICV

Worklist Smp#: 21

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

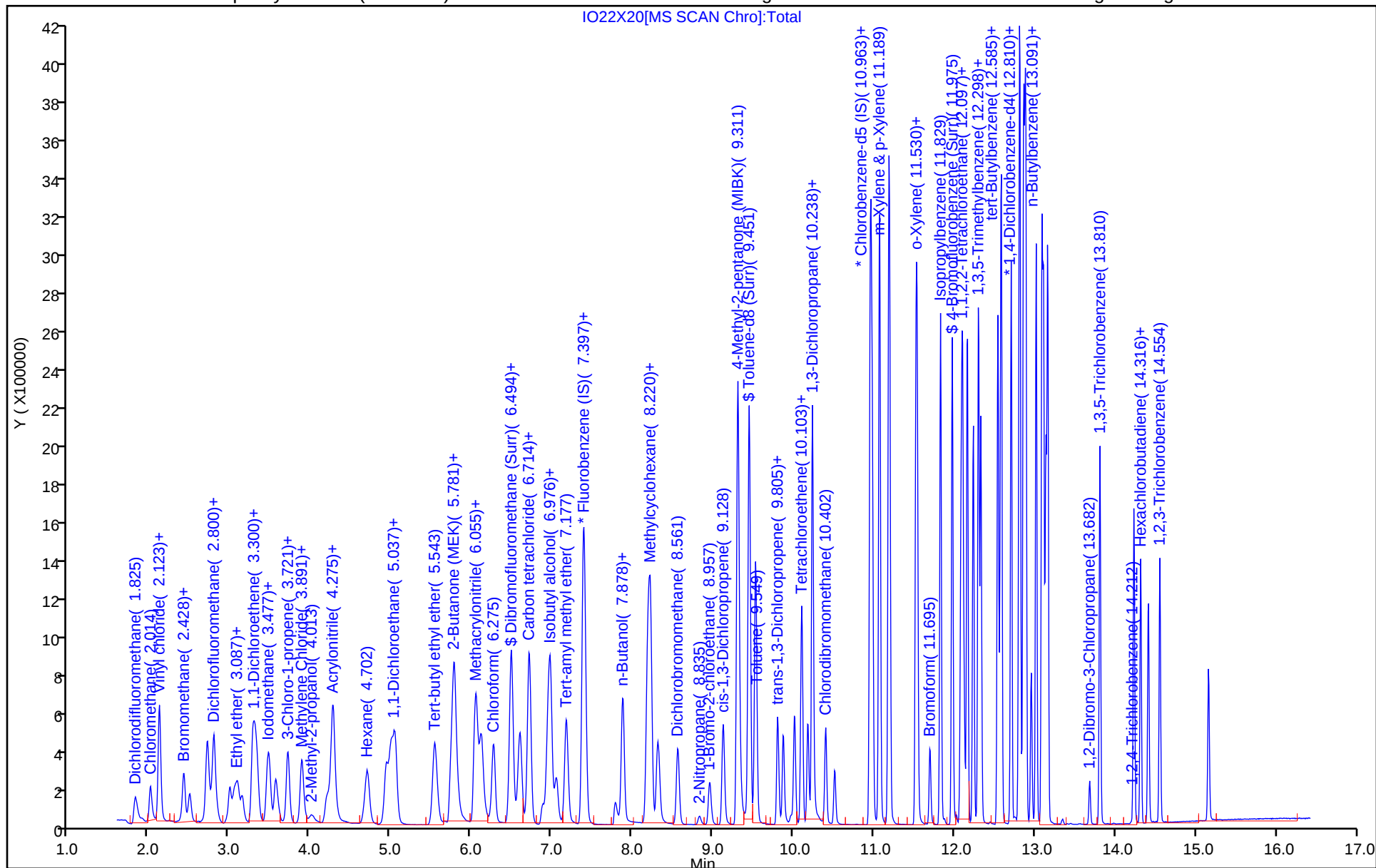
ALS Bottle#: 20

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

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



Eurofins Lancaster Laboratories Environment Testing, LLC

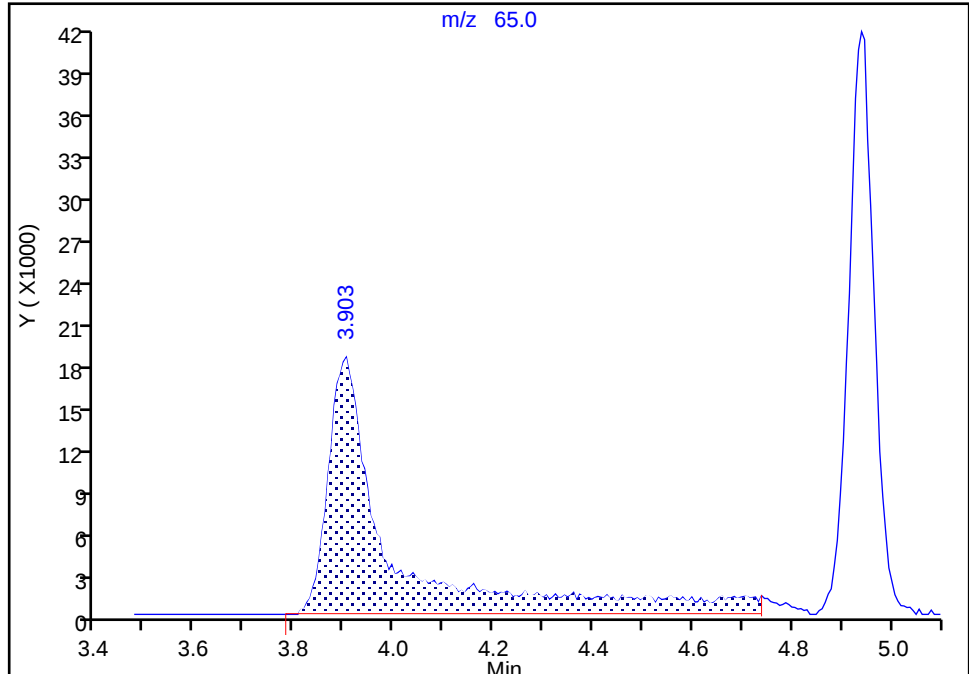
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Injection Date: 23-Oct-2023 05:17:30 Instrument ID: 19930
Lims ID: ICV
Client ID:
Operator ID: gaw91131 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

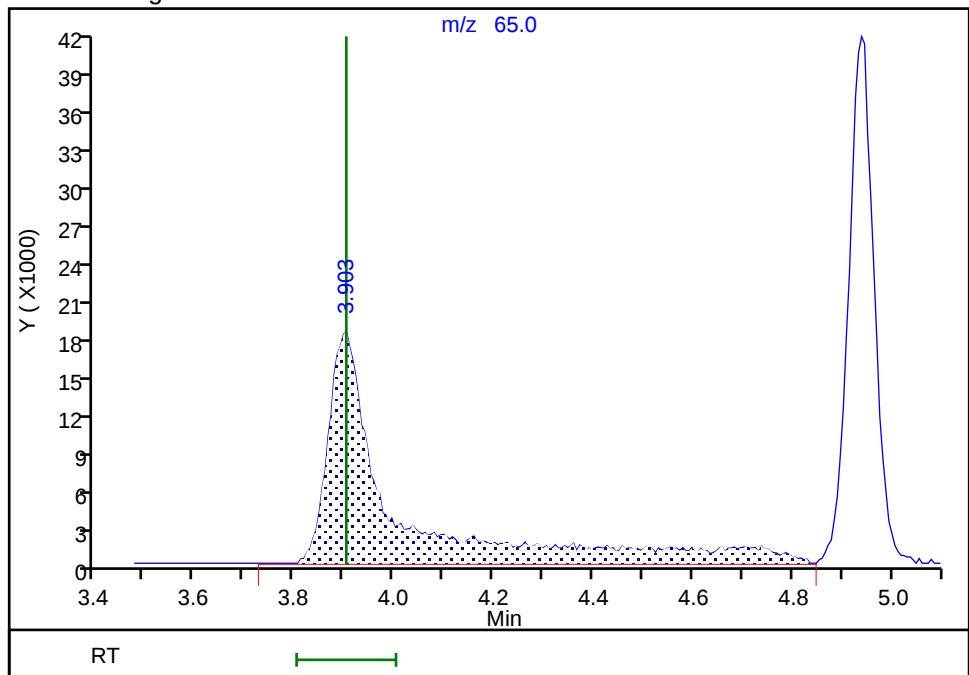
RT: 3.90
Area: 162674
Amount: 50.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.90
Area: 166398
Amount: 50.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:27:25 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

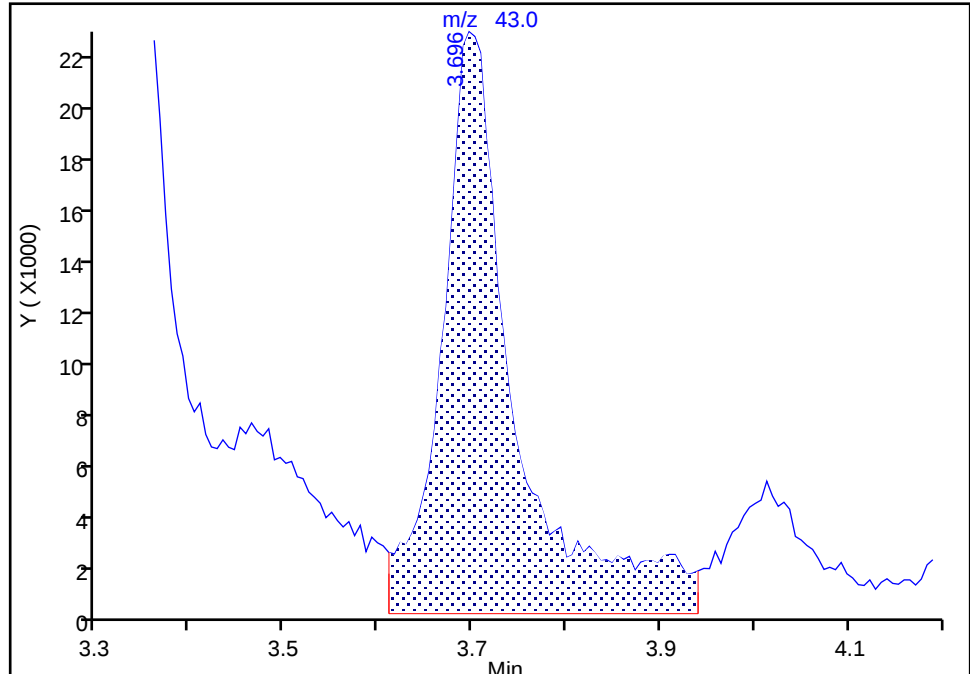
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Injection Date: 23-Oct-2023 05:17:30 Instrument ID: 19930
Lims ID: ICV
Client ID:
Operator ID: gaw91131 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

23 Methyl acetate, CAS: 79-20-9

Signal: 1

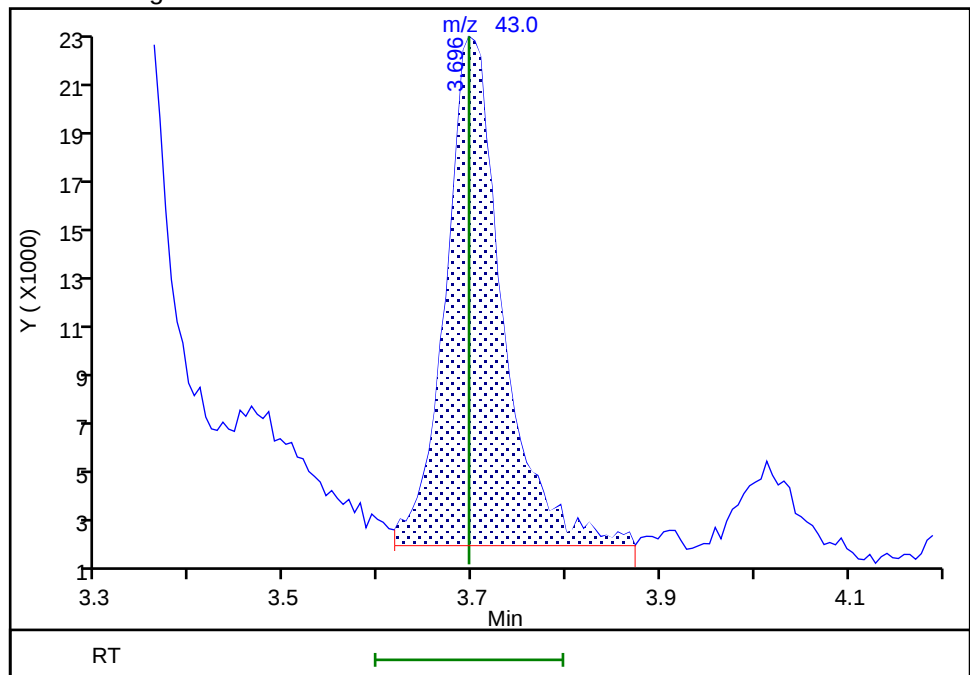
RT: 3.70
Area: 118476
Amount: 4.395527
Amount Units: ug/l

Processing Integration Results



RT: 3.70
Area: 84965
Amount: 4.825857
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 24-Oct-2023 08:51:44 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

Lab Sample ID: CCVIS 410-470708/3

Calibration Date: 02/06/2024 20:07

Instrument ID: 19930

Calib Start Date: 10/23/2023 02:29

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

Calib End Date: 10/23/2023 04:35

Lab File ID: IF06X02.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	0.3964	0.3426	0.1000	8.64	10.0	-13.6	20.0
Chloromethane	Ave	0.3720	0.3749	0.1000	10.1	10.0	0.8	20.0
Vinyl chloride	Ave	0.3674	0.3291	0.1000	8.96	10.0	-10.4	20.0
1,3-Butadiene	Ave	0.3586	0.4262		11.9	10.0	18.9	20.0
Bromomethane	Ave	0.3007	0.2342	0.1000	7.79	10.0	-22.1*	20.0
Chloroethane	Ave	0.2167	0.1879	0.1000	8.67	10.0	-13.3	20.0
Dichlorofluoromethane	Ave	0.6454	0.4957		7.68	10.0	-23.2*	20.0
Trichlorofluoromethane	Ave	0.5257	0.3721	0.1000	7.08	10.0	-29.2*	20.0
Ethyl ether	Ave	0.1942	0.2279		11.7	10.0	17.4	20.0
Freon 123a	Ave	0.3378	0.3326		9.85	10.0	-1.5	20.0
Acrolein	Ave	1.761	1.737		493	500	-1.4	20.0
1,1-Dichloroethene	Ave	0.2307	0.2317	0.1000	10.0	10.0	0.4	20.0
Acetone	Ave	2.269	2.427	0.1000	107	100	7.0	20.0
Freon 113	Ave	0.2463	0.2550	0.1000	10.4	10.0	3.5	20.0
Methyl iodide	Ave	0.5033	0.4514		8.97	10.0	-10.3	20.0
Ethyl bromide	Ave	0.2266	0.2111		9.32	10.0	-6.8	20.0
Carbon disulfide	Ave	0.6519	0.7301	0.1000	11.2	10.0	12.0	20.0
Methyl acetate	Ave	5.290	5.960	0.1000	11.3	10.0	12.7	20.0
Allyl chloride	Ave	0.3690	0.4151		11.3	10.0	12.5	20.0
Methylene Chloride	Ave	0.2572	0.2833	0.1000	11.0	10.0	10.1	20.0
t-Butyl alcohol	Ave	0.8535	0.8615		202	200	0.9	20.0
Acrylonitrile	Ave	2.595	3.505		33.8	25.0	35.0*	20.0
Methyl tert-butyl ether	Ave	0.7047	0.7234	0.1000	10.3	10.0	2.7	20.0
trans-1,2-Dichloroethene	Ave	0.2660	0.2658	0.1000	9.99	10.0	-0.0	20.0
n-Hexane	Ave	0.3128	0.3990		12.8	10.0	27.6*	20.0
1,1-Dichloroethane	Ave	0.4738	0.5020	0.2000	10.6	10.0	6.0	20.0
di-Isopropyl ether	Ave	0.7664	0.9031		11.8	10.0	17.8	20.0
2-Chloro-1,3-butadiene	Ave	0.4127	0.4132		10.0	10.0	0.1	20.0
Ethyl t-butyl ether	Ave	0.7877	0.8136		10.3	10.0	3.3	20.0
2-Butanone (MEK)	Ave	3.981	4.693	0.1000	118	100	17.9	20.0
cis-1,2-Dichloroethene	Ave	0.3045	0.3076	0.1000	10.1	10.0	1.0	20.0
2,2-Dichloropropane	Ave	0.4593	0.4041		8.80	10.0	-12.0	20.0
Propionitrile	Ave	1.068	1.340		251	200	25.4*	20.0
Methacrylonitrile	Ave	3.919	4.542		116	100	15.9	20.0
Bromochloromethane	Ave	0.1401	0.1359		9.69	10.0	-3.1	20.0
Tetrahydrofuran	Ave	1.196	1.358		56.8	50.0	13.6	20.0
Chloroform	Ave	0.5228	0.4994	0.2000	9.55	10.0	-4.5	20.0
1,1,1-Trichloroethane	Ave	0.4865	0.4294	0.1000	8.83	10.0	-11.7	20.0
Cyclohexane	Ave	0.4054	0.4856	0.1000	12.0	10.0	19.8	20.0
Carbon tetrachloride	Ave	0.4371	0.3834	0.1000	8.77	10.0	-12.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

Lab Sample ID: CCVIS 410-470708/3

Calibration Date: 02/06/2024 20:07

Instrument ID: 19930

Calib Start Date: 10/23/2023 02:29

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

Calib End Date: 10/23/2023 04:35

Lab File ID: IF06X02.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	0.3748	0.3861		10.3	10.0	3.0	20.0
Isobutyl alcohol	Ave	0.2923	0.3355		574	500	14.8	20.0
Benzene	Ave	1.099	1.181	0.5000	10.7	10.0	7.5	20.0
1,2-Dichloroethane	Ave	0.3402	0.3239	0.1000	9.52	10.0	-4.8	20.0
t-Amyl methyl ether	Ave	0.7418	0.7605		10.3	10.0	2.5	20.0
n-Heptane	Ave	0.3196	0.4268		13.4	10.0	33.5*	20.0
n-Butanol	Ave	0.2136	0.3113		1280	875	45.7*	20.0
Trichloroethene	Ave	0.3120	0.3024	0.2000	9.69	10.0	-3.1	20.0
Methylcyclohexane	Ave	0.4641	0.5123	0.1000	11.0	10.0	10.4	20.0
1,2-Dichloropropane	Ave	0.2671	0.3173	0.1000	11.9	10.0	18.8	20.0
1,4-Dioxane	Ave	0.0501	0.0637	0.0050	635	500	27.1*	20.0
Methyl methacrylate	Ave	7.597	8.452		11.1	10.0	11.3	20.0
Dibromomethane	Ave	0.1460	0.1540		10.5	10.0	5.4	20.0
Bromodichloromethane	Ave	0.3688	0.3799	0.2000	10.3	10.0	3.0	20.0
2-Nitropropane	Ave	2.788	2.609		46.8	50.0	-6.4	20.0
1-Bromo-2-chloroethane	Ave	0.2750	0.3270		11.9	10.0	18.9	20.0
cis-1,3-Dichloropropene	Ave	0.4189	0.4728	0.2000	11.3	10.0	12.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	10.54	11.81	0.1000	112	100	12.1	20.0
Toluene	Ave	0.9445	1.014	0.4000	10.7	10.0	7.4	20.0
trans-1,3-Dichloropropene	Ave	0.4431	0.5307	0.1000	12.0	10.0	19.8	20.0
Ethyl methacrylate	Ave	0.3715	0.4547		12.2	10.0	22.4*	20.0
1,1,2-Trichloroethane	Ave	0.2631	0.3016	0.1000	11.5	10.0	14.7	20.0
Tetrachloroethene	Ave	0.4895	0.4551	0.2000	9.30	10.0	-7.0	20.0
1,3-Dichloropropane	Ave	0.4257	0.5193		12.2	10.0	22.0*	20.0
2-Hexanone	Ave	7.562	8.565	0.1000	113	100	13.3	20.0
Dibromochloromethane	Ave	0.3507	0.3718		10.6	10.0	6.0	20.0
1,2-Dibromoethane (EDB)	Ave	0.2531	0.2885	0.1000	11.4	10.0	14.0	20.0
1-Chlorohexane	Ave	0.5291	0.5452		10.3	10.0	3.0	20.0
Chlorobenzene	Ave	1.083	1.127	0.5000	10.4	10.0	4.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4054	0.3948		9.74	10.0	-2.6	20.0
Ethylbenzene	Ave	1.857	1.987	0.1000	10.7	10.0	7.0	20.0
m&p-Xylene	Ave	0.7453	0.7781	0.1000	20.9	20.0	4.4	20.0
o-Xylene	Ave	0.7397	0.7525	0.3000	10.2	10.0	1.7	20.0
Styrene	Ave	1.162	1.252	0.3000	10.8	10.0	7.7	20.0
Bromoform	Ave	0.2366	0.2385	0.1000	10.1	10.0	0.8	20.0
Isopropylbenzene	Ave	1.828	1.801	0.1000	9.85	10.0	-1.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5554	0.7145	0.3000	12.9	10.0	28.6*	20.0
Bromobenzene	Ave	0.8171	0.8559		10.5	10.0	4.7	20.0
trans-1,4-Dichloro-2-butene	Ave	4.343	3.397		78.2	100	-21.8*	20.0
1,2,3-Trichloropropane	Ave	0.1621	0.1874		11.6	10.0	15.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1
Environment Testing, LLC

SDG No.: _____

Lab Sample ID: CCVIS 410-470708/3 Calibration Date: 02/06/2024 20:07

Instrument ID: 19930 Calib Start Date: 10/23/2023 02:29

GC Column: R-624SilMS 30m ID: 0.25 (mm) Calib End Date: 10/23/2023 04:35

Lab File ID: IF06X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Propylbenzene	Ave	3.623	4.085		11.3	10.0	12.7	20.0
2-Chlorotoluene	Ave	0.7780	0.8290		10.7	10.0	6.6	20.0
1,3,5-Trimethylbenzene	Ave	2.704	2.960		10.9	10.0	9.5	20.0
4-Chlorotoluene	Ave	0.7806	0.8452		10.8	10.0	8.3	20.0
tert-Butylbenzene	Ave	0.6531	0.6733		10.3	10.0	3.1	20.0
Pentachloroethane	Ave	0.5259	0.5525		10.5	10.0	5.1	20.0
1,2,4-Trimethylbenzene	Ave	2.730	3.020		11.1	10.0	10.6	20.0
sec-Butylbenzene	Ave	3.455	3.851		11.1	10.0	11.5	20.0
1,3-Dichlorobenzene	Ave	1.554	1.648	0.6000	10.6	10.0	6.1	20.0
p-Isopropyltoluene	Ave	3.046	3.346		11.0	10.0	9.8	20.0
1,4-Dichlorobenzene	Ave	1.604	1.671	0.5000	10.4	10.0	4.2	20.0
1,2,3-Trimethylbenzene	Ave	1.240	1.331		10.7	10.0	7.3	20.0
Benzyl chloride	Ave	0.2381	0.2865		12.0	10.0	20.3*	20.0
n-Butylbenzene	Ave	1.392	1.665		12.0	10.0	19.6	20.0
1,2-Dichlorobenzene	Ave	1.461	1.539	0.4000	10.5	10.0	5.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0965	0.1082	0.0500	11.2	10.0	12.2	20.0
1,3,5-Trichlorobenzene	Ave	1.138	1.205		10.6	10.0	5.9	20.0
1,2,4-Trichlorobenzene	Ave	0.9238	1.020	0.2000	11.0	10.0	10.4	20.0
Hexachlorobutadiene	Ave	0.4440	0.4924		11.1	10.0	10.9	20.0
Naphthalene	Ave	1.725	2.041		11.8	10.0	18.3	20.0
1,2,3-Trichlorobenzene	Ave	0.7584	0.8603		11.3	10.0	13.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2634	0.2411		9.15	10.0	-8.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0517	0.0528		10.2	10.0	2.0	20.0
Toluene-d8 (Surr)	Ave	1.277	1.316		10.3	10.0	3.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4832	0.4835		10.0	10.0	0.0	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X02.D
 Lims ID: CCVIS VSTD10
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 06-Feb-2024 20:07:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105725-003
 Misc. Info.: CCVIS
 Operator ID: gaw91131 Instrument ID: 19930
 Sublist: chrom-8260 25ml HP31*sub2
 Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 07-Feb-2024 00:42:48 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1644

First Level Reviewer: JS6E

Date: 06-Feb-2024 21:11:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.831	1.831	0.000	99	673922	10.0	8.64	
4 Chloromethane	50	2.014	2.014	0.000	99	737355	10.0	10.1	
5 Vinyl chloride	62	2.117	2.117	0.000	98	647365	10.0	8.96	
6 Butadiene	39	2.135	2.135	0.000	90	838370	10.0	11.9	
7 Bromomethane	94	2.446	2.446	0.000	91	460715	10.0	7.79	
8 Chloroethane	64	2.513	2.513	0.000	100	369500	10.0	8.67	
9 Dichlorofluoromethane	67	2.739	2.739	0.000	97	974912	10.0	7.68	
10 Trichlorofluoromethane	101	2.800	2.800	0.000	99	731874	10.0	7.08	
11 Ethyl ether	59	3.019	3.019	0.000	92	448415	10.0	11.7	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.111	3.111	0.000	96	654239	10.0	9.85	
14 Acrolein	56	3.172	3.172	0.000	99	3245125	500.0	493.0	
15 1,1-Dichloroethene	96	3.306	3.306	0.000	98	455760	10.0	10.0	
16 Acetone	43	3.330	3.330	0.000	100	907032	100.0	107.0	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.355	3.355	0.000	93	501477	10.0	10.4	
18 Iodomethane	142	3.489	3.489	0.000	99	887859	10.0	8.97	
19 Ethyl bromide	108	3.513	3.513	0.000	98	415329	10.0	9.32	
20 Carbon disulfide	76	3.593	3.593	0.000	99	1435966	10.0	11.2	
23 Methyl acetate	43	3.727	3.727	0.000	97	222761	10.0	11.3	M
24 3-Chloro-1-propene	41	3.745	3.745	0.000	93	816454	10.0	11.3	
25 Methylene Chloride	84	3.922	3.922	0.000	93	557157	10.0	11.0	
* 26 t-Butyl alcohol-d10 (IS)	65	3.940	3.940	0.000	100	186881	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.038	4.038	0.000	99	643961	200.0	201.9	
28 Acrylonitrile	53	4.239	4.239	0.000	99	327481	25.0	33.8	
29 Methyl tert-butyl ether	73	4.306	4.306	0.000	95	1422891	10.0	10.3	
30 trans-1,2-Dichloroethene	96	4.318	4.318	0.000	99	522760	10.0	10.0	
31 Hexane	57	4.745	4.745	0.000	92	784839	10.0	12.8	
32 1,1-Dichloroethane	63	4.976	4.976	0.000	96	987308	10.0	10.6	
35 Isopropyl ether	45	5.043	5.043	0.000	94	1776241	10.0	11.8	
36 2-Chloro-1,3-butadiene	53	5.086	5.086	0.000	90	812775	10.0	10.0	
37 Tert-butyl ethyl ether	59	5.574	5.574	0.000	98	1600224	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
38 2-Butanone (MEK)	43	5.787	5.787	0.000	100	1753918	100.0	117.9	
39 cis-1,2-Dichloroethene	96	5.812	5.812	0.000	82	605115	10.0	10.1	
40 2,2-Dichloropropane	77	5.824	5.824	0.000	87	794756	10.0	8.80	
43 Propionitrile	54	5.866	5.866	0.000	99	1001426	200.0	250.8	
45 Methacrylonitrile	67	6.086	6.086	0.000	91	1697535	100.0	115.9	
46 Chlorobromomethane	128	6.147	6.147	0.000	95	267222	10.0	9.69	
47 Tetrahydrofuran	71	6.159	6.159	0.000	86	253730	50.0	56.8	
48 Chloroform	83	6.299	6.299	0.000	93	982290	10.0	9.55	
\$ 49 Dibromofluoromethane (Surr)	113	6.519	6.519	0.000	93	474180	10.0	9.15	
50 1,1,1-Trichloroethane	97	6.525	6.525	0.000	98	844647	10.0	8.83	
51 Cyclohexane	56	6.629	6.629	0.000	91	955178	10.0	12.0	
54 Carbon tetrachloride	117	6.738	6.738	0.000	80	754020	10.0	8.77	
53 1,1-Dichloropropene	75	6.744	6.744	0.000	96	759372	10.0	10.3	
55 Isobutyl alcohol	41	6.903	6.903	0.000	95	626921	500.0	573.8	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.970	6.970	0.000	98	103762	10.0	10.2	
57 Benzene	78	7.000	7.000	0.000	97	2323511	10.0	10.7	
58 1,2-Dichloroethane	62	7.080	7.080	0.000	97	637075	10.0	9.52	
60 Tert-amyl methyl ether	73	7.202	7.202	0.000	99	1495807	10.0	10.3	
* 61 Fluorobenzene (IS)	96	7.409	7.409	0.000	99	1966910	10.0	10.0	
62 n-Heptane	43	7.427	7.427	0.000	92	839411	10.0	13.4	
63 n-Butanol	56	7.793	7.793	0.000	88	1018117	875.0	1275.0	
64 Trichloroethene	95	7.897	7.897	0.000	98	594833	10.0	9.69	
65 Methylcyclohexane	83	8.201	8.201	0.000	93	1007570	10.0	11.0	
66 1,2-Dichloropropane	63	8.220	8.220	0.000	98	624043	10.0	11.9	
67 Methyl methacrylate	69	8.317	8.317	0.000	92	315892	10.0	11.1	
68 1,4-Dioxane	88	8.317	8.317	0.000	35	119082	500.0	635.3	
69 Dibromomethane	93	8.336	8.336	0.000	94	302819	10.0	10.5	
71 Dichlorobromomethane	83	8.573	8.573	0.000	99	747133	10.0	10.3	
72 2-Nitropropane	41	8.835	8.835	0.000	98	487664	50.0	46.8	
75 1-Bromo-2-chloroethane	63	8.963	8.963	0.000	99	643219	10.0	11.9	
76 cis-1,3-Dichloropropene	75	9.134	9.134	0.000	97	929937	10.0	11.3	
77 4-Methyl-2-pentanone (MIBK)	43	9.311	9.311	0.000	96	4415149	100.0	112.1	
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	93	1974097	10.0	10.3	
79 Toluene	92	9.530	9.530	0.000	98	1521557	10.0	10.7	
97 trans-1,3-Dichloropropene	75	9.805	9.805	0.000	92	796001	10.0	12.0	
99 Ethyl methacrylate	69	9.872	9.872	0.000	89	682106	10.0	12.2	
100 1,1,2-Trichloroethane	97	10.006	10.006	0.000	90	452461	10.0	11.5	
101 Tetrachloroethene	166	10.097	10.097	0.000	98	682565	10.0	9.30	
102 1,3-Dichloropropane	76	10.171	10.171	0.000	90	779007	10.0	12.2	
103 2-Hexanone	43	10.231	10.231	0.000	96	3201128	100.0	113.3	
105 Chlorodibromomethane	129	10.396	10.396	0.000	90	557685	10.0	10.6	
106 Ethylene Dibromide	107	10.506	10.506	0.000	98	432803	10.0	11.4	
* 107 Chlorobenzene-d5 (IS)	117	10.945	10.945	0.000	92	1499971	10.0	10.0	
108 1-Chlorohexane	91	10.957	10.957	0.000	98	817781	10.0	10.3	
109 Chlorobenzene	112	10.969	10.969	0.000	95	1690589	10.0	10.4	
111 1,1,1,2-Tetrachloroethane	131	11.054	11.054	0.000	96	592262	10.0	9.74	
112 Ethylbenzene	91	11.061	11.061	0.000	98	2980513	10.0	10.7	
113 m-Xylene & p-Xylene	106	11.176	11.176	0.000	93	2334223	20.0	20.9	
114 o-Xylene	106	11.506	11.506	0.000	96	1128663	10.0	10.2	
115 Styrene	104	11.524	11.524	0.000	95	1877378	10.0	10.8	
116 Bromoform	173	11.682	11.682	0.000	98	357733	10.0	10.1	
117 Isopropylbenzene	105	11.810	11.810	0.000	96	2701730	10.0	9.85	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 120 4-Bromofluorobenzene (Surr)	95	11.957	11.957	0.000	93	725283	10.0	10.0	
121 1,1,2,2-Tetrachloroethane	83	12.054	12.054	0.000	92	604933	10.0	12.9	
122 Bromobenzene	156	12.066	12.066	0.000	95	724677	10.0	10.5	
123 trans-1,4-Dichloro-2-butene	53	12.079	12.079	0.000	91	1269500	100.0	78.2	
124 1,2,3-Trichloropropane	110	12.103	12.103	0.000	82	158659	10.0	11.6	
125 N-Propylbenzene	91	12.140	12.140	0.000	99	3458366	10.0	11.3	
126 2-Chlorotoluene	126	12.213	12.213	0.000	97	701909	10.0	10.7	
127 1,3,5-Trimethylbenzene	105	12.280	12.280	0.000	94	2506203	10.0	10.9	
128 4-Chlorotoluene	126	12.310	12.310	0.000	97	715541	10.0	10.8	
129 tert-Butylbenzene	134	12.518	12.518	0.000	93	570018	10.0	10.3	
130 Pentachloroethane	167	12.548	12.548	0.000	94	467785	10.0	10.5	
131 1,2,4-Trimethylbenzene	105	12.560	12.560	0.000	97	2556926	10.0	11.1	
132 sec-Butylbenzene	105	12.682	12.682	0.000	94	3260438	10.0	11.1	
133 1,3-Dichlorobenzene	146	12.780	12.780	0.000	98	1395155	10.0	10.6	
134 4-Isopropyltoluene	119	12.792	12.792	0.000	97	2832456	10.0	11.0	
* 135 1,4-Dichlorobenzene-d4	152	12.835	12.835	0.000	94	846643	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.853	12.853	0.000	94	1414564	10.0	10.4	
137 1,2,3-Trimethylbenzene	120	12.865	12.865	0.000	98	1126618	10.0	10.7	
138 Benzyl chloride	126	12.932	12.932	0.000	98	242570	10.0	12.0	
139 n-Butylbenzene	92	13.085	13.085	0.000	97	1409269	10.0	12.0	
140 1,2-Dichlorobenzene	146	13.109	13.109	0.000	99	1302901	10.0	10.5	
142 1,2-Dibromo-3-Chloropropane	155	13.652	13.652	0.000	88	91633	10.0	11.2	
143 1,3,5-Trichlorobenzene	180	13.780	13.780	0.000	98	1020054	10.0	10.6	
144 1,2,4-Trichlorobenzene	180	14.200	14.200	0.000	94	863632	10.0	11.0	
145 Hexachlorobutadiene	225	14.286	14.286	0.000	96	416916	10.0	11.1	
146 Naphthalene	128	14.377	14.377	0.000	97	1727626	10.0	11.8	
147 1,2,3-Trichlorobenzene	180	14.523	14.523	0.000	96	728338	10.0	11.3	
165 Isopropyl alcohol	45		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00115

Amount Added: 20.00

Units: uL

MSV_LL_#2_826_00124

Amount Added: 20.00

Units: uL

MSV_LL_GAS826_00190

Amount Added: 20.00

Units: uL

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 07-Feb-2024 00:42:48

Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X02.D

Injection Date: 06-Feb-2024 20:07:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: CCVIS VSTD10

Worklist Smp#: 3

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

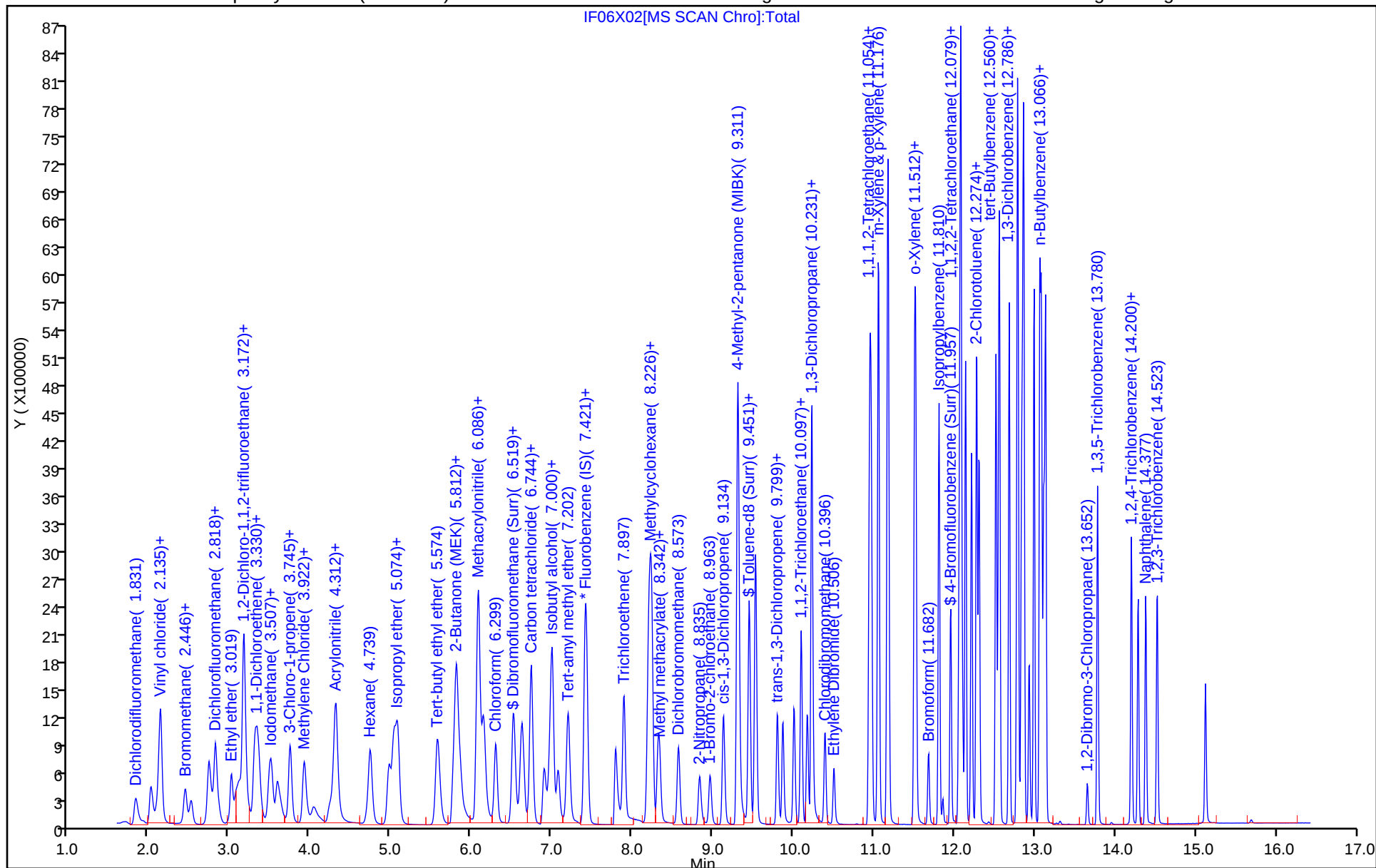
ALS Bottle#: 2

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

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

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



Eurofins Lancaster Laboratories Environment Testing, LLC

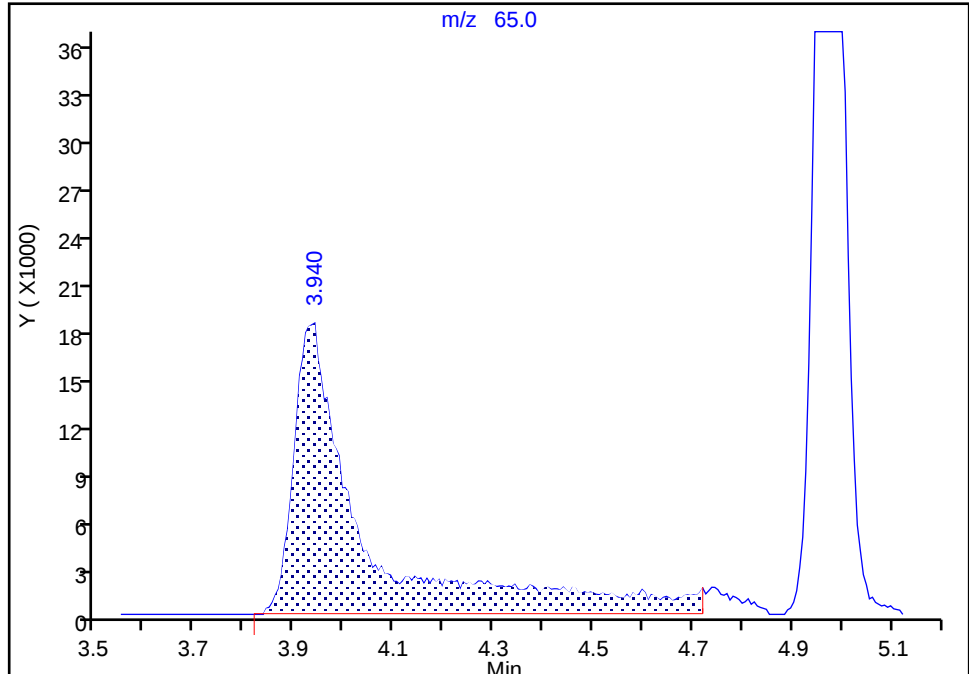
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Injection Date: 06-Feb-2024 20:07:30 Instrument ID: 19930
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

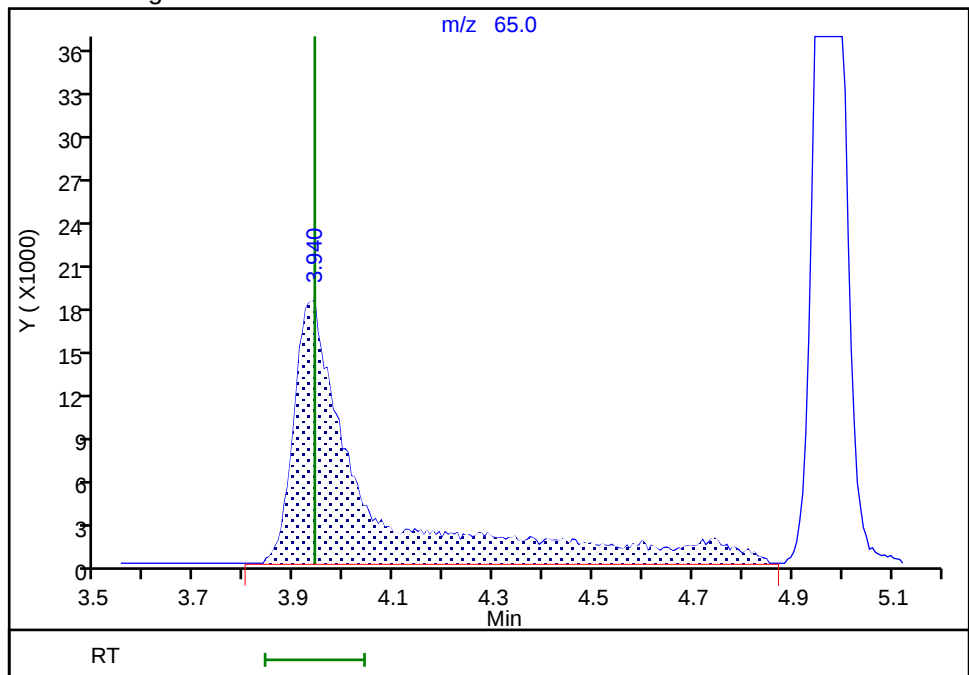
RT: 3.94
Area: 179183
Amount: 50.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.94
Area: 186881
Amount: 50.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 06-Feb-2024 21:13:04 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

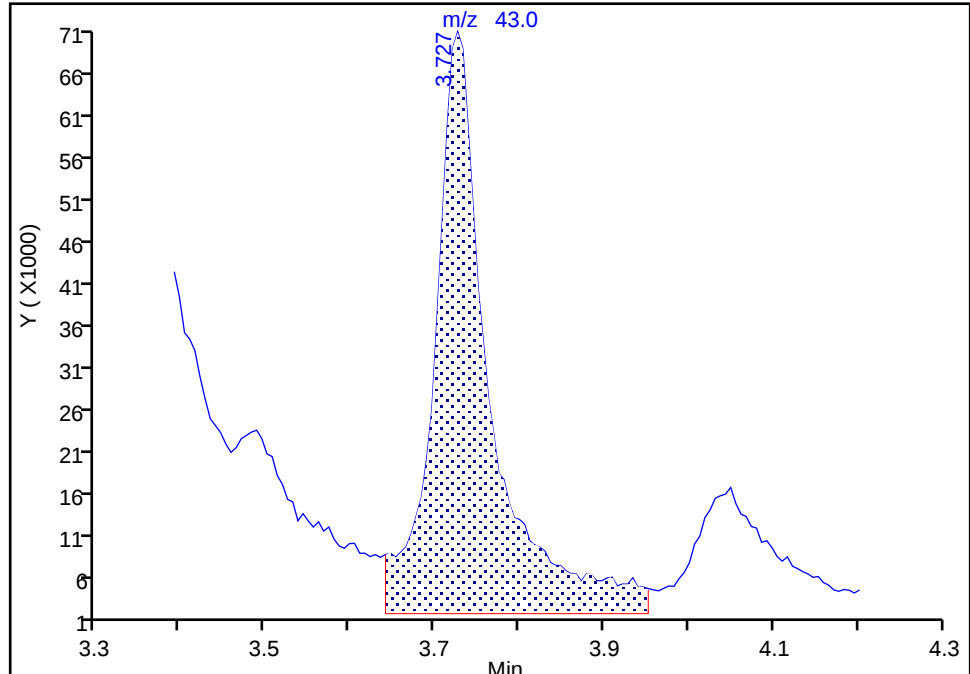
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Injection Date: 06-Feb-2024 20:07:30 Instrument ID: 19930
Lims ID: CCVIS VSTD10
Client ID:
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

23 Methyl acetate, CAS: 79-20-9

Signal: 1

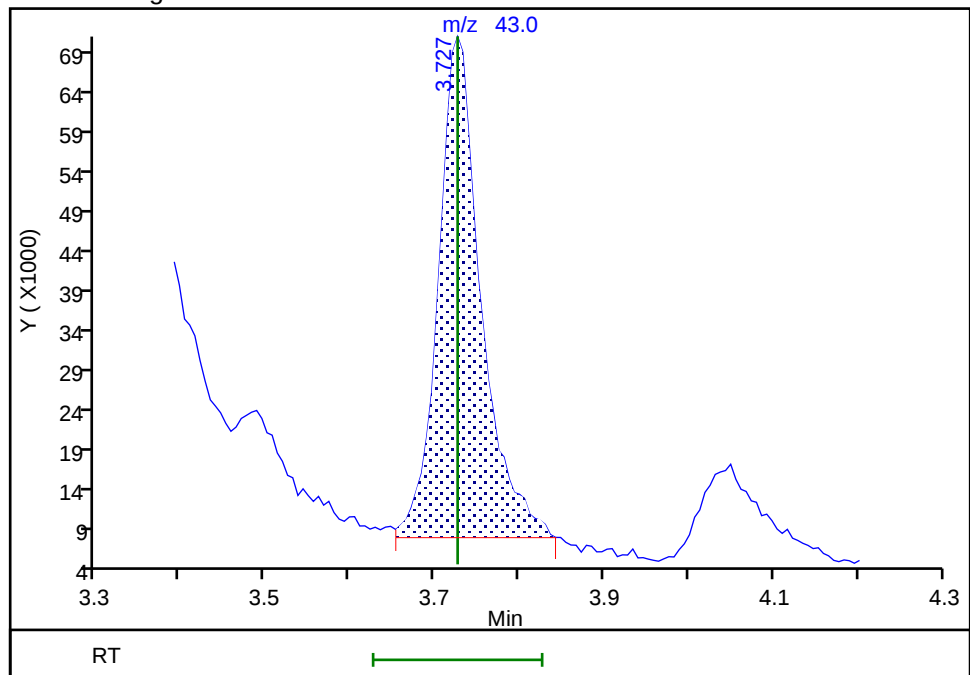
RT: 3.73
Area: 322791
Amount: 17.025785
Amount Units: ug/l

Processing Integration Results



RT: 3.73
Area: 222761
Amount: 11.265657
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 06-Feb-2024 21:12:54 -05:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22T01.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 22-Oct-2023 22:21:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: BFB
Operator ID: gaw91131 Instrument ID: 19930
Method: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 24-Oct-2023 09:42:38 Calib Date: 23-Oct-2023 04:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1657

First Level Reviewer: JS6E

Date: 22-Oct-2023 22:32:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 167 BFB	95	5.013	5.013	0.000	0	345513	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MSV_V_BFB_00012

Amount Added: 1.00

Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22T01.D

Injection Date: 22-Oct-2023 22:21:30

Instrument ID: 19930

Lims ID: BFB

Client ID:

Operator ID: gaw91131

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 uL

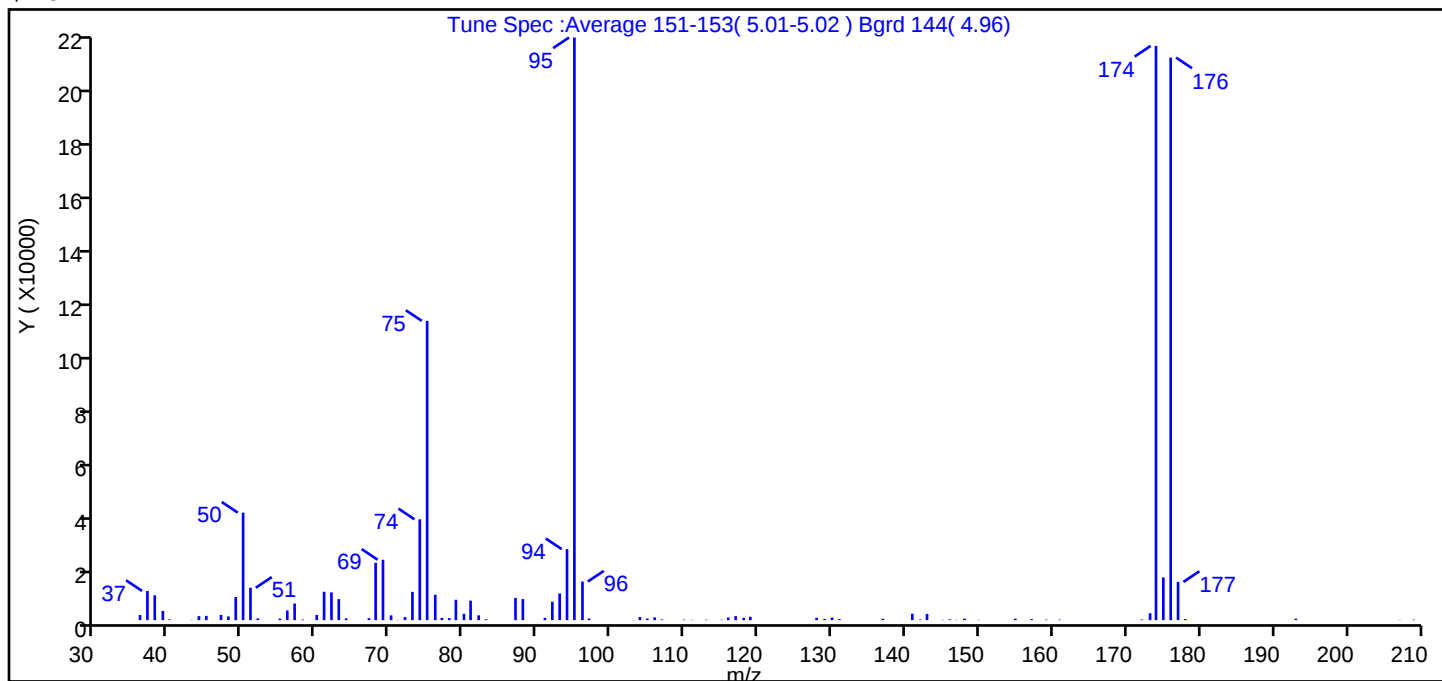
Dil. Factor: 1.0000

Method: 8260 25ml HP31

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	18.4
75	30 to 60% of m/z 95	51.4
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	1.2 (1.2)
174	50 to 120% of m/z 95	98.6
175	5 to 9% of m/z 174	7.3 (7.4)
176	Greater than 95% but less than 101% of m/z 174	96.6 (98.0)
177	5 to 9% of m/z 176	6.6 (6.8)

Data File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22T01.D\8260 25ml HP31.rslt\spectra.d
Injection Date: 22-Oct-2023 22:21:30
Spectrum: Tune Spec :Average 151-153(5.01-5.02) Bgrd 144(4.96)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 90

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1909	67.00	735	95.00	217152	142.00	235
37.00	10877	68.00	21392	96.00	14381	143.00	2300
38.00	9245	69.00	22512	97.00	625	145.00	118
39.00	3433	70.00	1776	103.00	86	146.00	311
40.00	255	71.00	84	104.00	1196	147.00	91
43.00	106	72.00	1192	105.00	597	148.00	547
44.00	1502	73.00	10548	106.00	1035	150.00	95
45.00	1596	74.00	37584	107.00	269	155.00	565
47.00	1976	75.00	111528	110.00	204	157.00	372
48.00	1388	76.00	9463	111.00	93	159.00	183
49.00	8599	77.00	852	113.00	180	161.00	199
50.00	40064	78.00	763	115.00	151	172.00	237
51.00	12079	79.00	7590	116.00	984	173.00	2563
52.00	635	80.00	2356	117.00	1509	174.00	214016
55.00	572	81.00	7269	118.00	834	175.00	15932
56.00	3621	82.00	1796	119.00	1251	176.00	209664
57.00	6198	83.00	330	128.00	888	177.00	14238
58.00	224	87.00	8269	129.00	469	178.00	417
60.00	1930	88.00	7865	130.00	967	193.00	538
61.00	10571	91.00	867	131.00	375	207.00	75
62.00	10322	92.00	6868	135.00	7	209.00	197
63.00	7841	93.00	9943	137.00	517		
64.00	681	94.00	26472	141.00	2398		

Report Date: 24-Oct-2023 09:42:39

Chrom Revision: 2.3 18-Oct-2023 21:16:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22T01.D

Injection Date: 22-Oct-2023 22:21:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

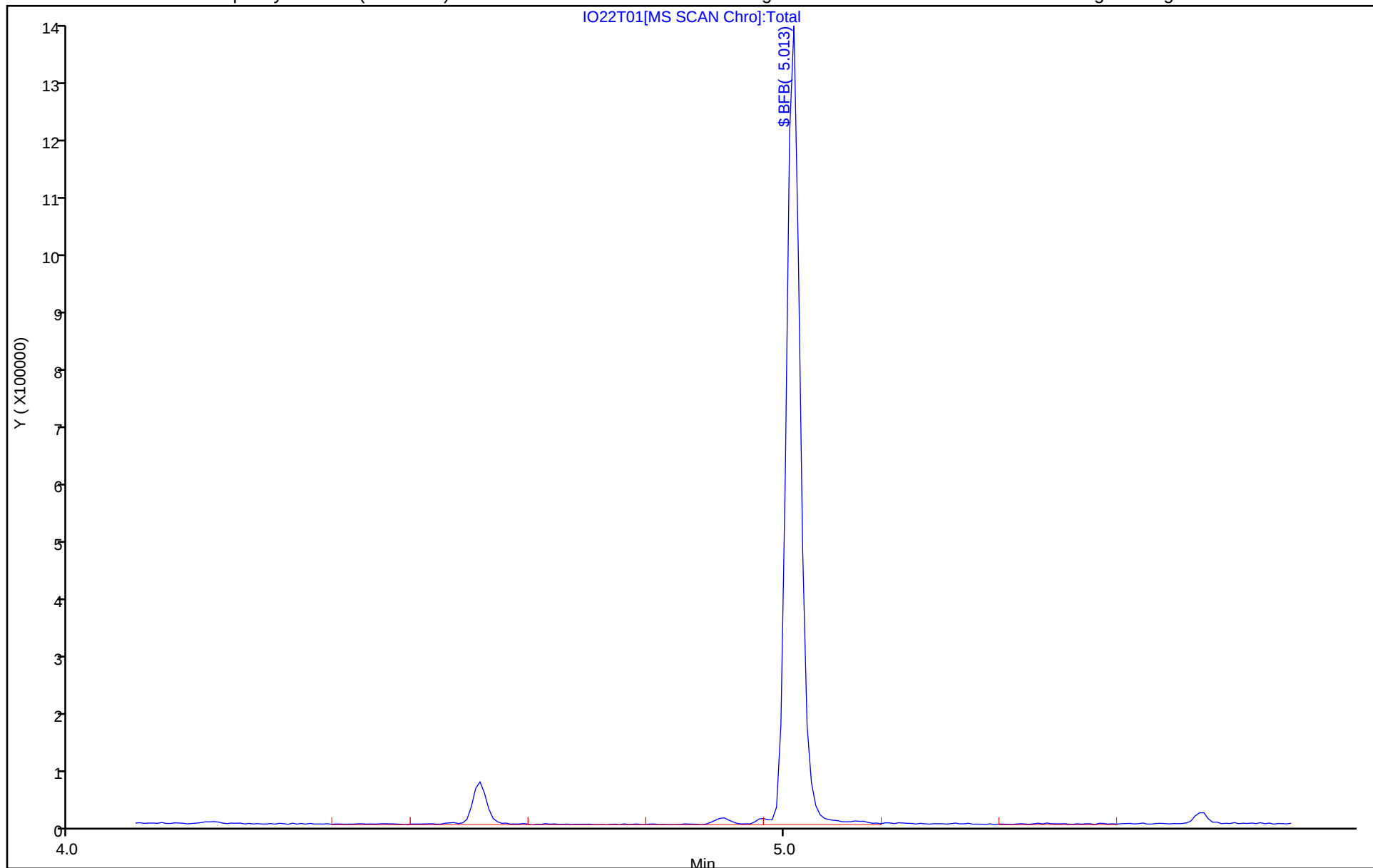
ALS Bottle#: 1

Method: 8260 25ml HP31

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\19930\20240206-105725.b\IF06T01.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 06-Feb-2024 19:32:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0105725-001
Misc. Info.: BFB
Operator ID: gaw91131 Instrument ID: 19930
Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 07-Feb-2024 00:43:11 Calib Date: 23-Oct-2023 04:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1644

First Level Reviewer: JS6E

Date: 06-Feb-2024 20:29:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 167 BFB	95	4.995	4.995	0.000	0	396824	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MSV_V_BFB_00016

Amount Added: 1.00

Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06T01.D

Injection Date: 06-Feb-2024 19:32:30

Instrument ID: 19930

Lims ID: BFB

Client ID:

Operator ID: gaw91131

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 uL

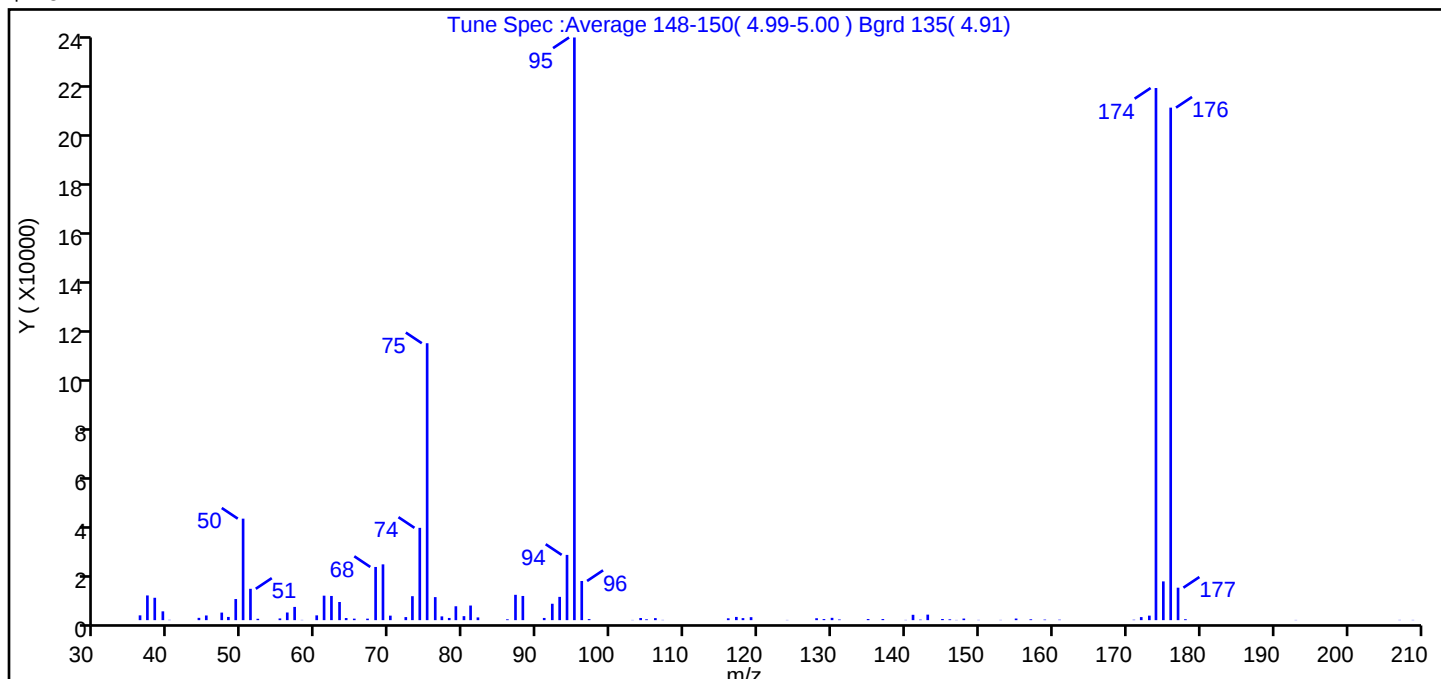
Dil. Factor: 1.0000

Method: 8260 25ml HP31

Limit Group: MSV - 8260C_D

Tune Method: BFB Method 8260

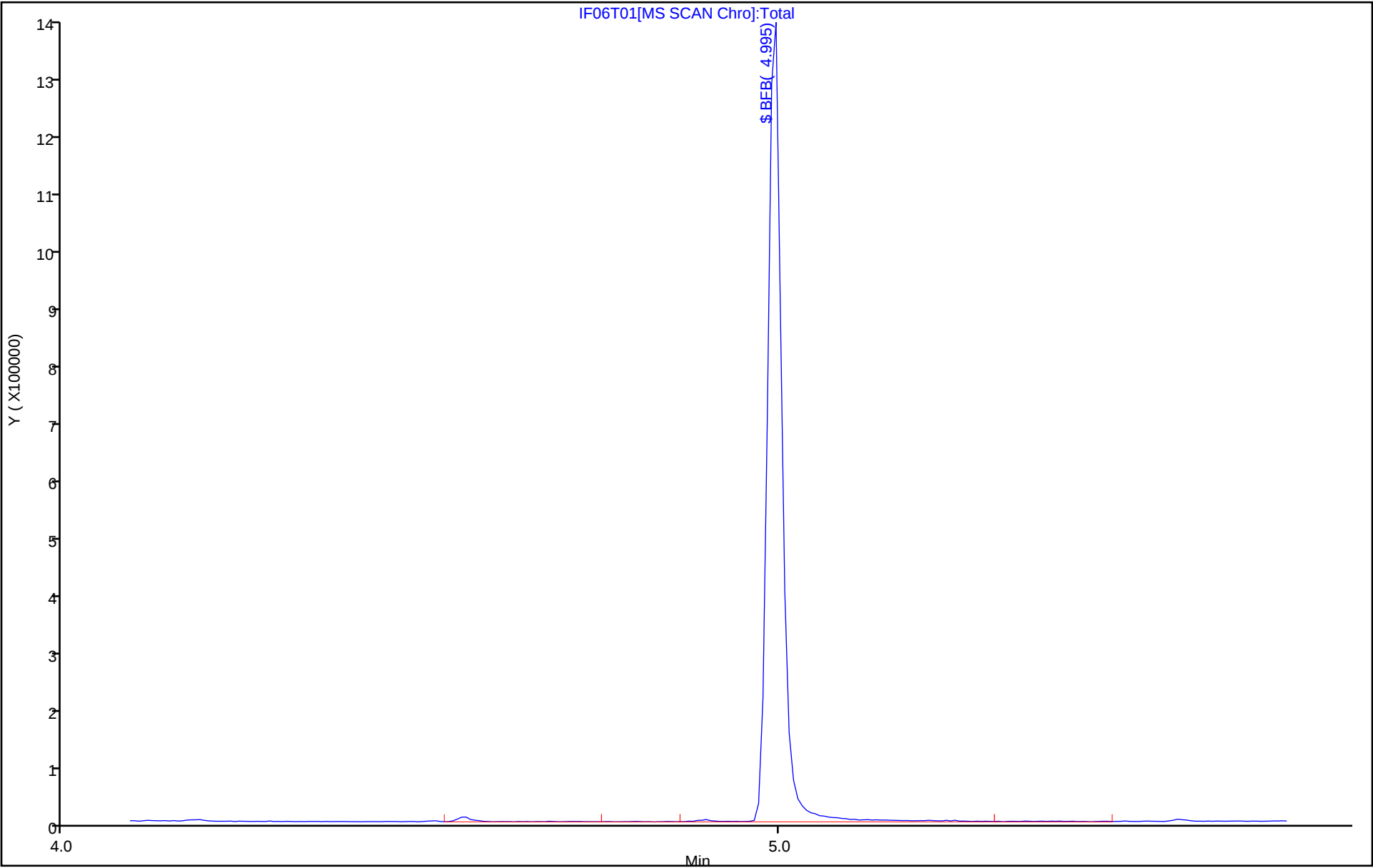
\$ 167 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.4
75	30 to 60% of m/z 95	47.5
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.8 (0.8)
174	50 to 120% of m/z 95	91.3
175	5 to 9% of m/z 174	6.7 (7.3)
176	Greater than 95% but less than 101% of m/z 174	88.0 (96.3)
177	5 to 9% of m/z 176	5.6 (6.3)

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06T01.D\8260 25ml HP31.rsl\spectra.d
Injection Date: 06-Feb-2024 19:32:30
Spectrum: Tune Spec :Average 148-150(4.99-5.00) Bgrd 135(4.91)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 89

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1939	67.00	604	96.00	15862	146.00	332
37.00	10008	68.00	21544	97.00	428	147.00	85
38.00	9061	69.00	22600	103.00	85	148.00	641
39.00	3568	70.00	1822	104.00	870	150.00	103
40.00	123	72.00	1241	105.00	341	153.00	99
44.00	931	73.00	9704	106.00	820	155.00	648
45.00	1895	74.00	37392	107.00	100	157.00	346
47.00	3065	75.00	112176	116.00	744	159.00	222
48.00	1298	76.00	9330	117.00	1303	161.00	188
49.00	8548	77.00	1524	118.00	823	171.00	167
50.00	41112	78.00	890	119.00	1206	172.00	1235
51.00	12700	79.00	5624	124.00	87	173.00	1828
52.00	553	80.00	1616	128.00	774	174.00	215552
55.00	692	81.00	5916	129.00	438	175.00	15699
56.00	3097	82.00	1105	130.00	936	176.00	207616
57.00	5359	86.00	339	131.00	270	177.00	13147
58.00	96	87.00	10261	135.00	444	178.00	371
60.00	1938	88.00	9794	137.00	435	193.00	85
61.00	9916	91.00	888	140.00	98	207.00	103
62.00	9798	92.00	6640	141.00	2165	209.00	94
63.00	7352	93.00	9426	142.00	206		
64.00	854	94.00	26432	143.00	2235		
65.00	607	95.00	236032	145.00	464		



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

Client Sample ID:

Lab Sample ID: MB 410-470708/6

Matrix: Water

Lab File ID: IF06X05.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 02/06/2024 21:09

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.: 470708

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	2.0
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	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 410-470708/6

Matrix: Water Lab File ID: IF06X05.D

Analysis Method: 8260D Date Collected: _____

Sample wt/vol: 25 (mL) Date Analyzed: 02/06/2024 21:09

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.: 470708 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)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	92		80-120
2037-26-5	Toluene-d8 (Surr)	103		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X05.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 06-Feb-2024 21:09:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105725-006
 Misc. Info.: MB
 Operator ID: gaw91131 Instrument ID: 19930
 Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 07-Feb-2024 00:42:48 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1644

First Level Reviewer: JS6E

Date: 06-Feb-2024 22:05:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.831					ND	
2 Chlorodifluoromethane	51		1.843					ND	
3 Dimethyl ether	45		1.904					ND	
4 Chloromethane	50		2.014					ND	
5 Vinyl chloride	62		2.117					ND	
6 Butadiene	39		2.135					ND	7
7 Bromomethane	94		2.446					ND	
8 Chloroethane	64		2.513					ND	
9 Dichlorofluoromethane	67		2.739					ND	
10 Trichlorofluoromethane	101		2.800					ND	
11 Ethyl ether	59		3.019					ND	
13 1,2-Dichloro-1,1,2-trifluoroetha	67		3.111					ND	
14 Acrolein	56		3.172					ND	7
15 1,1-Dichloroethene	96		3.306					ND	
16 Acetone	43		3.330					ND	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.355					ND	
18 Iodomethane	142		3.489					ND	
19 Ethyl bromide	108		3.513					ND	
20 Carbon disulfide	76	3.605	3.593	0.012	94	3811		0.0364	
21 Acetonitrile	41		3.684					ND	
23 Methyl acetate	43		3.727					ND	
24 3-Chloro-1-propene	41		3.745					ND	
25 Methylene Chloride	84		3.922					ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.934	3.940	-0.006	22	138950	50.0	50.0	
27 2-Methyl-2-propanol	59	4.080	4.038	0.042	1	1398		0.5894	
28 Acrylonitrile	53		4.239					ND	
29 Methyl tert-butyl ether	73		4.306					ND	
30 trans-1,2-Dichloroethene	96		4.318					ND	
31 Hexane	57		4.745					ND	
33 Vinyl acetate	43		4.946					ND	
32 1,1-Dichloroethane	63		4.976					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Isopropyl ether	45		5.043					ND	
36 2-Chloro-1,3-butadiene	53		5.086					ND	
37 Tert-butyl ethyl ether	59		5.574					ND	
38 2-Butanone (MEK)	43		5.787					ND	
39 cis-1,2-Dichloroethene	96		5.812					ND	
40 2,2-Dichloropropane	77		5.824					ND	
42 Ethyl acetate	43		5.836					ND	
43 Propionitrile	54		5.866					ND	
45 Methacrylonitrile	67		6.086					ND	
46 Chlorobromomethane	128		6.147					ND	
S 41 1,2-Dichloroethene, Total	100		6.155					ND	7
47 Tetrahydrofuran	71		6.159					ND	
44 Methyl acrylate	55		6.220					ND	
48 Chloroform	83		6.299					ND	
\$ 49 Dibromofluoromethane (Surr)	113	6.525	6.519	0.006	94	390550	10.0	9.22	
50 1,1,1-Trichloroethane	97		6.525					ND	
51 Cyclohexane	56		6.629					ND	
54 Carbon tetrachloride	117		6.738					ND	
53 1,1-Dichloropropene	75		6.744					ND	
55 Isobutyl alcohol	41		6.903					ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.976	6.970	0.006	63	87125	10.0	10.5	
57 Benzene	78		7.000					ND	
52 1-Chlorobutane	56		7.019					ND	
59 Isopropyl acetate	43		7.074					ND	
58 1,2-Dichloroethane	62		7.080					ND	
60 Tert-amyl methyl ether	73		7.202					ND	
* 61 Fluorobenzene (IS)	96	7.415	7.409	0.006	99	1607249	10.0	10.0	
62 n-Heptane	43		7.427					ND	7
63 n-Butanol	56		7.793					ND	
64 Trichloroethene	95		7.897					ND	
65 Methylcyclohexane	83		8.201					ND	7
66 1,2-Dichloropropane	63		8.220					ND	
67 Methyl methacrylate	69		8.317					ND	
68 1,4-Dioxane	88		8.317					ND	
69 Dibromomethane	93		8.336					ND	
70 n-Propyl acetate	43		8.390					ND	
71 Dichlorobromomethane	83		8.573					ND	
72 2-Nitropropane	41		8.835					ND	
73 2-Chloroethyl vinyl ether	63		8.939					ND	
75 1-Bromo-2-chloroethane	63		8.963					ND	
76 cis-1,3-Dichloropropene	75		9.134					ND	
74 Chloroacetonitrile	75		9.226					ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.311					ND	
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	93	1603229	10.0	10.3	
79 Toluene	92		9.530					ND	
97 trans-1,3-Dichloropropene	75		9.805					ND	
99 Ethyl methacrylate	69		9.872					ND	
100 1,1,2-Trichloroethane	97		10.006					ND	
S 98 1,3-Dichloropropene, Total	100		10.060					ND	7
101 Tetrachloroethene	166		10.097					ND	
102 1,3-Dichloropropane	76		10.171					ND	
103 2-Hexanone	43		10.231					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 n-Butyl acetate	43		10.372					ND	
105 Chlorodibromomethane	129		10.396					ND	
106 Ethylene Dibromide	107		10.506					ND	
* 107 Chlorobenzene-d5 (IS)	117	10.945	10.945	0.000	86	1220432	10.0	10.0	
108 1-Chlorohexane	91		10.957					ND	7
109 Chlorobenzene	112		10.969					ND	
111 1,1,1,2-Tetrachloroethane	131		11.054					ND	
112 Ethylbenzene	91		11.061					ND	
113 m-Xylene & p-Xylene	106		11.176					ND	
S 110 Xylenes, Total	106		11.245					ND	7
114 o-Xylene	106		11.506					ND	
115 Styrene	104		11.524					ND	
116 Bromoform	173		11.682					ND	
117 Isopropylbenzene	105		11.810					ND	
118 cis-1,4-Dichloro-2-butene	88		11.878					ND	
119 Cyclohexanone	55		11.908					ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.957	11.957	0.000	92	570667	10.0	9.68	
121 1,1,2,2-Tetrachloroethane	83		12.054					ND	
122 Bromobenzene	156		12.066					ND	
123 trans-1,4-Dichloro-2-butene	53		12.079					ND	
124 1,2,3-Trichloropropane	110		12.103					ND	
125 N-Propylbenzene	91		12.140					ND	
126 2-Chlorotoluene	126		12.213					ND	
127 1,3,5-Trimethylbenzene	105		12.280					ND	
128 4-Chlorotoluene	126		12.310					ND	
129 tert-Butylbenzene	134		12.518					ND	
130 Pentachloroethane	167		12.548					ND	
131 1,2,4-Trimethylbenzene	105		12.560					ND	
132 sec-Butylbenzene	105		12.682					ND	
133 1,3-Dichlorobenzene	146		12.780					ND	
134 4-Isopropyltoluene	119		12.792					ND	
* 135 1,4-Dichlorobenzene-d4	152	12.835	12.835	0.000	95	663959	10.0	10.0	
136 1,4-Dichlorobenzene	146		12.853					ND	7
137 1,2,3-Trimethylbenzene	120		12.865					ND	7
138 Benzyl chloride	126		12.932					ND	
139 n-Butylbenzene	92		13.085					ND	7
140 1,2-Dichlorobenzene	146		13.109					ND	
141 Hexachloroethane	117		13.542					ND	
142 1,2-Dibromo-3-Chloropropane	155		13.652					ND	
143 1,3,5-Trichlorobenzene	180		13.780					ND	7
144 1,2,4-Trichlorobenzene	180		14.200					ND	
145 Hexachlorobutadiene	225	14.286	14.286	0.000	87	1405		0.0477	
146 Naphthalene	128	14.401	14.377	0.024	88	3356		0.0293	
147 1,2,3-Trichlorobenzene	180		14.523					ND	
148 Dodecane	57		0.000					ND	
164 1-Chloropropane	1		0.000					ND	
219 1,1,1-Trifluoro-2,2-dichloroetha	1		0.000					ND	
220 1,2-Dichlorofluoroethane TIC	1		0.000					ND	
221 1,1,1-Trichloro-2,2,2-trifluoroe	1		0.000					ND	
163 Propene oxide	1		0.000					ND	
162 Chlorotrifluoroethene	1		0.000					ND	
222 Vinyl Fluoride TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
225 1,1-Dichloro-1-fluoroethane TIC			0.000						ND
218 Fluoromethane TIC	1		0.000						ND
213 Chlorofluoromethane TIC	1		0.000						ND
214 Dichloro-1,1,2,2-tetrafluoroethane			0.000						ND
215 1-Chloro-1,1-difluoroethane TIC			0.000						ND
216 Ethyl ether TIC	1		0.000						ND
217 Freon 115 TIC	1		0.000						ND
165 Isopropyl alcohol	45		0.000						ND
150 2-ethoxy-2-methyl butane	1		0.000						ND
149 2-Chloro-1,1,1-Trifluoroethane	1		0.000						ND
161 Pentane	43		0.000						ND
223 1,1,2-Trifluoroethane TIC	1		0.000						ND
160 2-Bromo-1-chloropropane	1		0.000						ND
159 tert-Butyl Formate	1		0.000						ND
158 Methylal	1		0.000						ND
157 t-Amyl alcohol	1		0.000						ND
156 p-Diethylbenzene	1		0.000						ND
155 2-Methylnaphthalene	142		0.000						ND
154 1,1-Dichloro-1-fluoroethane	1		0.000						ND
153 1-Bromo-3-Chloropropane	1		0.000						ND
152 n-Decane	57		0.000						ND
151 1,1-Dichloroacetone	1		0.000						ND
166 Ethanol	45		3.269						ND

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 07-Feb-2024 00:43:08

Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X05.D

Injection Date: 06-Feb-2024 21:09:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

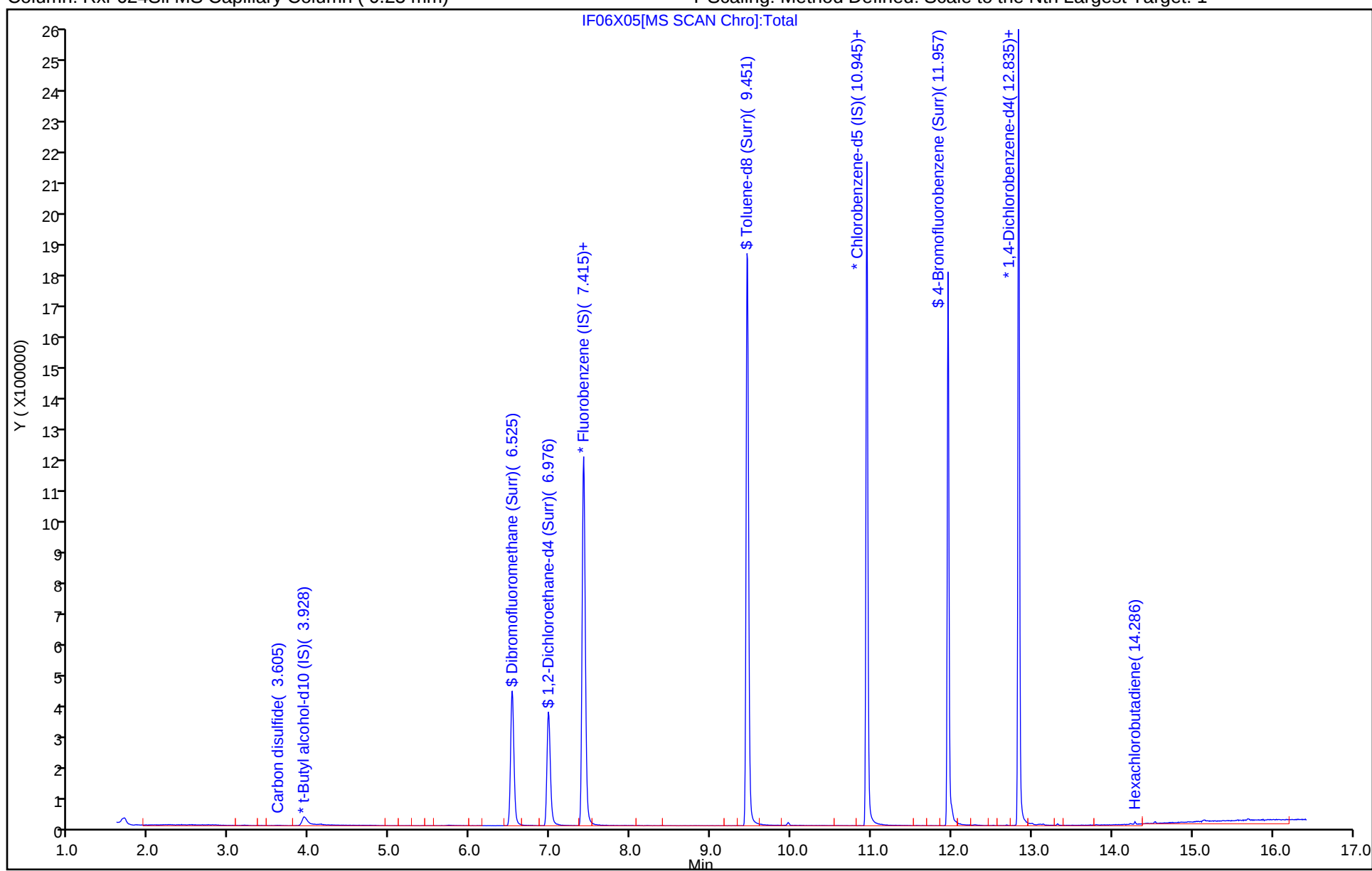
ALS Bottle#: 5

Method: 8260 25ml HP31

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\19930\20240206-105725.b\IF06X05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 06-Feb-2024 21:09:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0105725-006
Misc. Info.: MB
Operator ID: gaw91131 Instrument ID: 19930
Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 07-Feb-2024 00:42:48 Calib Date: 23-Oct-2023 04:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1644

First Level Reviewer: JS6E

Date: 06-Feb-2024 22:05:58

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	9.22	92.24
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	104.86
\$ 78 Toluene-d8 (Surr)	10.0	10.3	102.86
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.68	96.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCS 410-470708/4

Matrix: Water

Lab File ID: IF06X03.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 02/06/2024 20:28

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 470708

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.99		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.58		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	6.55		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.85		0.50	0.080
75-34-3	1,1-Dichloroethane	5.61		0.50	0.10
75-35-4	1,1-Dichloroethene	5.23		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.71		0.50	0.080
107-06-2	1,2-Dichloroethane	4.83		0.50	0.070
78-87-5	1,2-Dichloropropane	6.02		0.50	0.10
78-93-3	2-Butanone (MEK)	68.0		5.0	1.0
591-78-6	2-Hexanone	64.7		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	64.2		5.0	1.0
67-64-1	Acetone	62.6		5.0	1.0
71-43-2	Benzene	5.53		0.50	0.10
74-97-5	Bromochloromethane	5.01		0.50	0.080
75-27-4	Bromodichloromethane	5.15		0.50	0.080
75-25-2	Bromoform	5.03		1.0	0.30
74-83-9	Bromomethane	3.55		0.50	0.10
75-15-0	Carbon disulfide	5.21		1.0	0.10
56-23-5	Carbon tetrachloride	4.52		0.50	0.10
108-90-7	Chlorobenzene	5.35		0.50	0.070
75-00-3	Chloroethane	4.25		0.50	0.10
67-66-3	Chloroform	4.97		0.50	0.090
74-87-3	Chloromethane	4.13		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	5.23		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.30		0.50	0.10
124-48-1	Dibromochloromethane	5.41		0.50	0.080
100-41-4	Ethylbenzene	5.46		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.97		0.50	0.080
75-09-2	Methylene Chloride	5.49		0.50	0.20
100-42-5	Styrene	5.40		0.50	0.070
127-18-4	Tetrachloroethene	4.84		0.50	0.20
108-88-3	Toluene	5.53		0.50	0.080

FORM I

GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No. :

Client Sample ID:

Lab Sample ID: LCS 410-470708/4

Matrix: Water

Lab File ID: IF06X03.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 02/06/2024 20:28

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 470708

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.14		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.90		0.50	0.080
79-01-6	Trichloroethene	4.95		0.50	0.080
75-01-4	Vinyl chloride	3.92		0.50	0.10
1330-20-7	Xylenes, Total	15.8		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X03.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 06-Feb-2024 20:28:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105725-004
 Misc. Info.: LCS
 Operator ID: gaw91131 Instrument ID: 19930
 Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 07-Feb-2024 00:42:48 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1644

First Level Reviewer: JS6E

Date: 06-Feb-2024 21:15:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.819	1.831	-0.012	99	253055	5.00	3.73	
4 Chloromethane	50	2.001	2.014	-0.013	99	262589	5.00	4.13	
5 Vinyl chloride	62	2.105	2.117	-0.012	98	246530	5.00	3.92	
6 Butadiene	39	2.129	2.135	-0.006	89	271065	5.00	4.42	
7 Bromomethane	94	2.428	2.446	-0.018	90	182672	5.00	3.55	
8 Chloroethane	64	2.507	2.513	-0.006	100	157480	5.00	4.25	
9 Dichlorofluoromethane	67	2.727	2.739	-0.012	97	369357	5.00	3.34	
10 Trichlorofluoromethane	101	2.794	2.800	-0.006	96	299545	5.00	3.33	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.099	3.111	-0.012	93	285079	5.00	4.93	
15 1,1-Dichloroethene	96	3.300	3.306	-0.006	97	206417	5.00	5.23	
16 Acetone	43	3.324	3.330	-0.006	100	497105	62.5	62.6	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.343	3.355	-0.012	92	186668	5.00	4.43	
18 Iodomethane	142	3.483	3.489	-0.006	99	367510	5.00	4.27	
20 Carbon disulfide	76	3.586	3.593	-0.007	99	581360	5.00	5.21	
23 Methyl acetate	43	3.721	3.727	-0.006	98	85193	5.00	4.60	M
24 3-Chloro-1-propene	41	3.745	3.745	0.000	93	335994	5.00	5.32	
25 Methylene Chloride	84	3.916	3.922	-0.006	93	241513	5.00	5.49	
* 26 t-Butyl alcohol-d10 (IS)	65	3.928	3.940	-0.012	99	174923	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.038	4.038	0.000	99	147003	50.0	49.2	
28 Acrylonitrile	53	4.233	4.239	-0.006	99	277758	25.0	30.6	
29 Methyl tert-butyl ether	73	4.294	4.306	-0.012	95	598749	5.00	4.97	
30 trans-1,2-Dichloroethene	96	4.312	4.318	-0.006	99	233825	5.00	5.14	
31 Hexane	57	4.739	4.745	-0.006	92	319186	5.00	5.96	
32 1,1-Dichloroethane	63	4.970	4.976	-0.006	96	454814	5.00	5.61	
35 Isopropyl ether	45	5.031	5.043	-0.012	94	746182	5.00	5.69	
36 2-Chloro-1,3-butadiene	53	5.080	5.086	-0.006	90	351642	5.00	4.98	
37 Tert-butyl ethyl ether	59	5.574	5.574	0.000	98	697868	5.00	5.18	
38 2-Butanone (MEK)	43	5.781	5.787	-0.006	100	947210	62.5	68.0	
39 cis-1,2-Dichloroethene	96	5.812	5.812	0.000	82	272601	5.00	5.23	
40 2,2-Dichloropropane	77	5.830	5.824	0.006	85	363808	5.00	4.63	
43 Propionitrile	54	5.879	5.866	0.013	99	168417	37.5	45.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
45 Methacrylonitrile	67	6.080	6.086	-0.006	91	549695	37.5	40.1	
46 Chlorobromomethane	128	6.141	6.147	-0.006	95	120244	5.00	5.01	
47 Tetrahydrofuran	71	6.159	6.159	0.000	82	112847	25.0	27.0	
48 Chloroform	83	6.299	6.299	0.000	93	444634	5.00	4.97	
\$ 49 Dibromofluoromethane (Surr)	113	6.519	6.519	0.000	94	406377	10.0	9.02	
50 1,1,1-Trichloroethane	97	6.525	6.525	0.000	98	381680	5.00	4.58	
51 Cyclohexane	56	6.629	6.629	0.000	90	375690	5.00	5.42	
54 Carbon tetrachloride	117	6.738	6.738	0.000	95	338204	5.00	4.52	
53 1,1-Dichloropropene	75	6.744	6.744	0.000	98	335074	5.00	5.23	
55 Isobutyl alcohol	41	6.909	6.903	0.006	95	128970	125.0	126.1	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.970	6.970	0.000	83	90027	10.0	10.2	
57 Benzene	78	7.000	7.000	0.000	97	1040617	5.00	5.53	
58 1,2-Dichloroethane	62	7.074	7.080	-0.006	97	281196	5.00	4.83	
60 Tert-amyl methyl ether	73	7.196	7.202	-0.006	99	635086	5.00	5.00	
* 61 Fluorobenzene (IS)	96	7.409	7.409	0.000	98	1711108	10.0	10.0	
62 n-Heptane	43	7.427	7.427	0.000	92	348734	5.00	6.38	
63 n-Butanol	56	7.799	7.793	0.006	90	232616	250.0	311.2	
64 Trichloroethene	95	7.897	7.897	0.000	99	264505	5.00	4.95	
65 Methylcyclohexane	83	8.201	8.201	0.000	93	408874	5.00	5.15	
66 1,2-Dichloropropane	63	8.220	8.220	0.000	97	275145	5.00	6.02	
67 Methyl methacrylate	69	8.323	8.317	0.006	92	128352	5.00	4.83	
68 1,4-Dioxane	88	8.323	8.317	0.006	32	32734	125.0	186.6	
69 Dibromomethane	93	8.336	8.336	0.000	94	130599	5.00	5.23	
71 Dichlorobromomethane	83	8.573	8.573	0.000	99	325039	5.00	5.15	
72 2-Nitropropane	41	8.842	8.835	0.007	98	39718	5.00	4.07	
75 1-Bromo-2-chloroethane	63	8.970	8.963	0.007	99	290985	5.00	6.18	
76 cis-1,3-Dichloropropene	75	9.134	9.134	0.000	97	379812	5.00	5.30	
77 4-Methyl-2-pentanone (MIBK)	43	9.311	9.311	0.000	96	2368796	62.5	64.2	
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	93	1707072	10.0	10.4	
79 Toluene	92	9.530	9.530	0.000	98	669495	5.00	5.53	
97 trans-1,3-Dichloropropene	75	9.805	9.805	0.000	92	335294	5.00	5.90	
99 Ethyl methacrylate	69	9.872	9.872	0.000	89	275573	5.00	5.79	
100 1,1,2-Trichloroethane	97	10.012	10.006	0.006	90	197092	5.00	5.85	
101 Tetrachloroethene	166	10.097	10.097	0.000	98	303454	5.00	4.84	
102 1,3-Dichloropropane	76	10.177	10.171	0.007	90	335446	5.00	6.15	
103 2-Hexanone	43	10.232	10.231	0.001	96	1710894	62.5	64.7	
105 Chlorodibromomethane	129	10.396	10.396	0.000	90	243315	5.00	5.41	
106 Ethylene Dibromide	107	10.506	10.506	0.000	98	185164	5.00	5.71	
* 107 Chlorobenzene-d5 (IS)	117	10.945	10.945	0.000	86	1281688	10.0	10.0	
108 1-Chlorohexane	91	10.957	10.957	0.000	98	341715	5.00	5.04	
109 Chlorobenzene	112	10.969	10.969	0.000	95	742203	5.00	5.35	
111 1,1,1,2-Tetrachloroethane	131	11.055	11.054	0.001	97	259229	5.00	4.99	
112 Ethylbenzene	91	11.061	11.061	0.000	98	1299651	5.00	5.46	
113 m-Xylene & p-Xylene	106	11.176	11.176	0.000	93	1026375	10.0	10.7	
114 o-Xylene	106	11.506	11.506	0.000	97	487265	5.00	5.14	
115 Styrene	104	11.524	11.524	0.000	95	803604	5.00	5.40	
116 Bromoform	173	11.682	11.682	0.000	97	152700	5.00	5.03	
117 Isopropylbenzene	105	11.810	11.810	0.000	96	1283408	5.00	5.48	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.957	11.957	0.000	92	628185	10.0	10.1	
121 1,1,2,2-Tetrachloroethane	83	12.054	12.054	0.000	94	258670	5.00	6.55	
122 Bromobenzene	156	12.067	12.066	0.001	97	310716	5.00	5.35	
123 trans-1,4-Dichloro-2-butene	53	12.079	12.079	0.000	93	237433	25.0	15.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
124 1,2,3-Trichloropropane	110	12.103	12.103	0.000	82	68706	5.00	5.96	
125 N-Propylbenzene	91	12.140	12.140	0.000	99	1537384	5.00	5.97	
126 2-Chlorotoluene	126	12.213	12.213	0.000	97	301231	5.00	5.45	
127 1,3,5-Trimethylbenzene	105	12.280	12.280	0.000	94	1086745	5.00	5.65	
128 4-Chlorotoluene	126	12.310	12.310	0.000	97	310410	5.00	5.59	
129 tert-Butylbenzene	134	12.518	12.518	0.000	93	224120	5.00	4.83	
131 1,2,4-Trimethylbenzene	105	12.560	12.560	0.000	98	1091974	5.00	5.63	
132 sec-Butylbenzene	105	12.682	12.682	0.000	94	1403122	5.00	5.71	
133 1,3-Dichlorobenzene	146	12.780	12.780	0.000	98	594557	5.00	5.38	
134 4-Isopropyltoluene	119	12.792	12.792	0.000	97	1197522	5.00	5.53	
* 135 1,4-Dichlorobenzene-d4	152	12.835	12.835	0.000	98	711063	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.853	12.853	0.000	95	615481	5.00	5.40	
137 1,2,3-Trimethylbenzene	120	12.865	12.865	0.000	98	461240	5.00	5.23	
138 Benzyl chloride	126	12.932	12.932	0.000	98	96940	5.00	5.73	
139 n-Butylbenzene	92	13.085	13.085	0.000	97	595211	5.00	6.01	
140 1,2-Dichlorobenzene	146	13.115	13.109	0.006	99	560387	5.00	5.39	
142 1,2-Dibromo-3-Chloropropane	155	13.652	13.652	0.000	86	36379	5.00	5.30	
143 1,3,5-Trichlorobenzene	180	13.780	13.780	0.000	98	428935	5.00	5.30	
144 1,2,4-Trichlorobenzene	180	14.200	14.200	0.000	94	359684	5.00	5.48	
145 Hexachlorobutadiene	225	14.286	14.286	0.000	96	180179	5.00	5.71	
146 Naphthalene	128	14.377	14.377	0.000	97	721463	5.00	5.88	
147 1,2,3-Trichlorobenzene	180	14.523	14.523	0.000	95	305851	5.00	5.67	
165 Isopropyl alcohol	45		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00152

Amount Added: 12.50

Units: uL

MSV_QC_Gas826_00182

Amount Added: 12.50

Units: uL

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 07-Feb-2024 00:42:52

Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X03.D

Injection Date: 06-Feb-2024 20:28:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

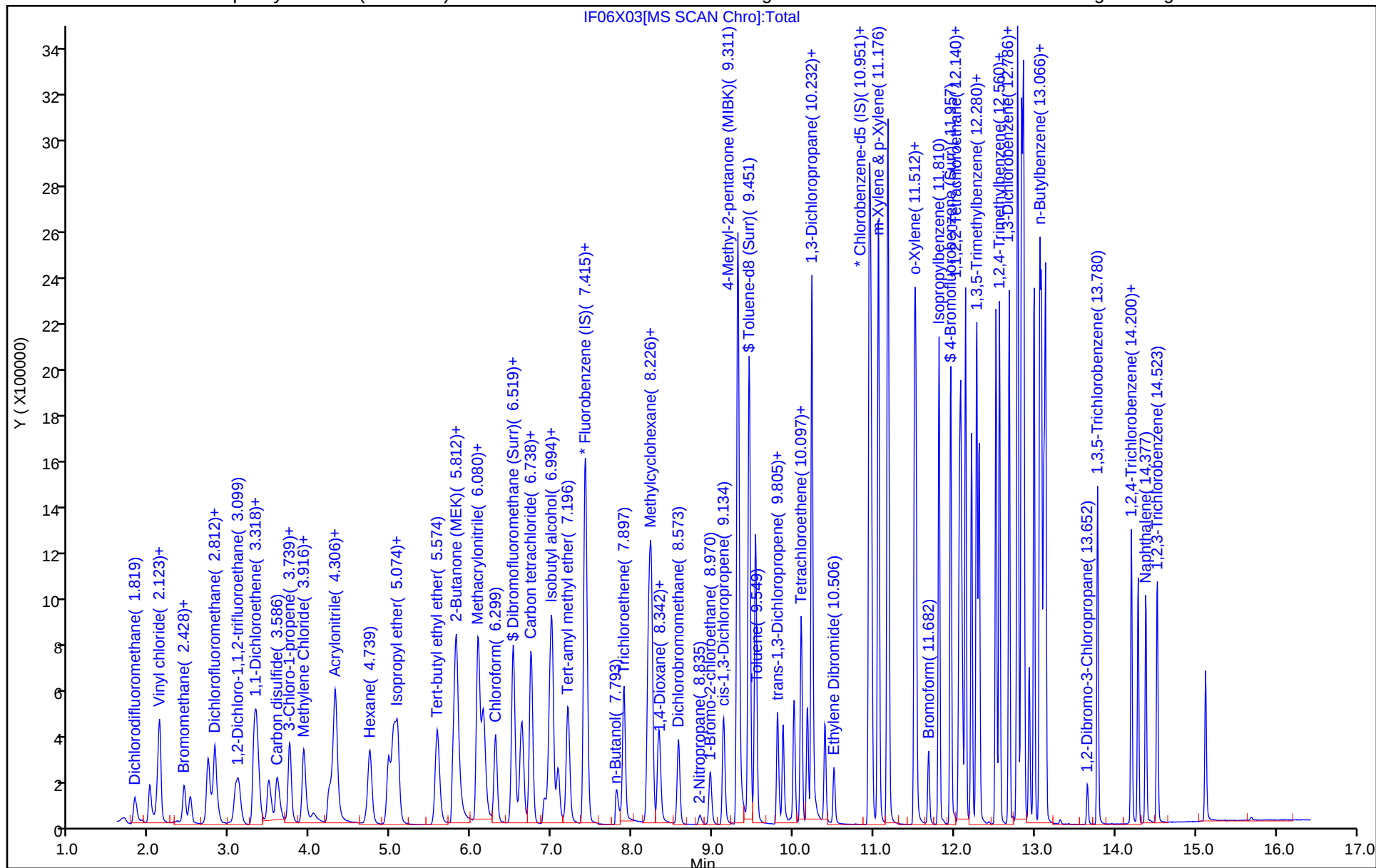
ALS Bottle#: 3

Method: 8260 25ml HP31

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\19930\20240206-105725.b\IF06X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 06-Feb-2024 20:28:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0105725-004
Misc. Info.: LCS
Operator ID: gaw91131 Instrument ID: 19930
Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 07-Feb-2024 00:42:48 Calib Date: 23-Oct-2023 04:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1644

First Level Reviewer: JS6E

Date: 06-Feb-2024 21:15:28

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	9.02	90.15
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	101.78
\$ 78 Toluene-d8 (Surr)	10.0	10.4	104.29
\$ 120 4-Bromofluorobenzene (Surr)	10.0	10.1	101.43

Eurofins Lancaster Laboratories Environment Testing, LLC

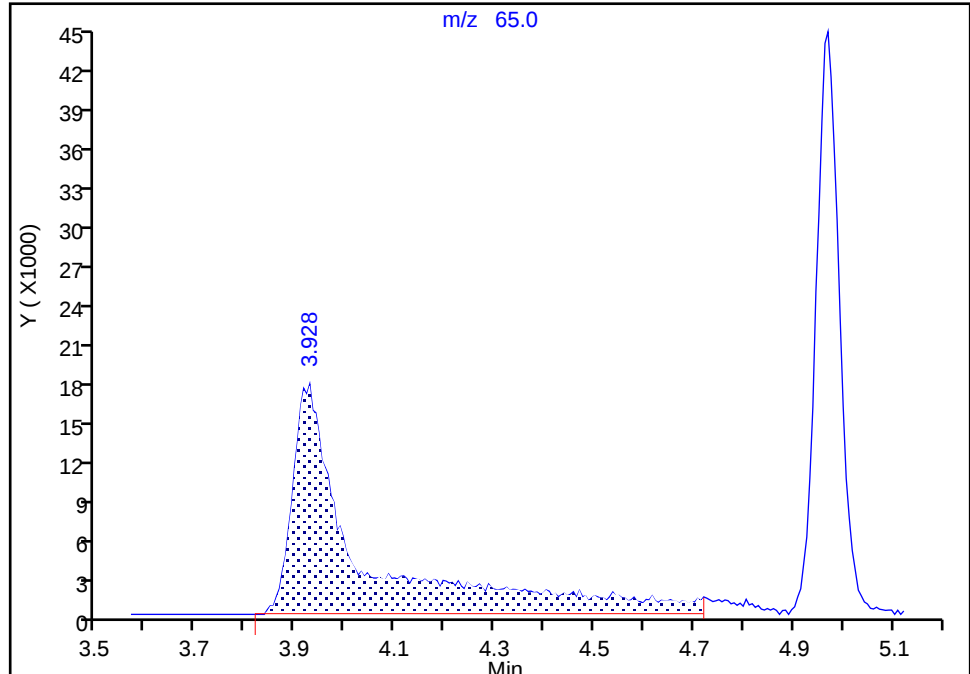
Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X03.D
Injection Date: 06-Feb-2024 20:28:30 Instrument ID: 19930
Lims ID: LCS
Client ID:
Operator ID: gaw91131 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

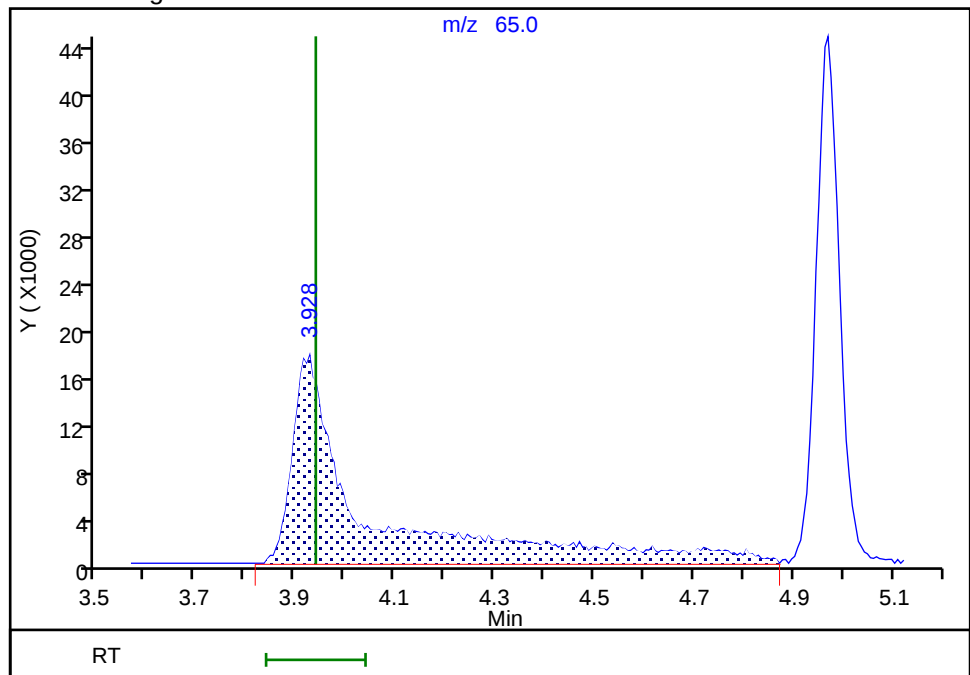
RT: 3.93
Area: 168171
Amount: 50.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.93
Area: 174923
Amount: 50.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 06-Feb-2024 21:15:03 -05:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

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

Lab Sample ID: 410-159022-6 MS

Matrix: Water

Lab File ID: IF06X13.D

Analysis Method: 8260D

Date Collected: 01/29/2024 11:33

Sample wt/vol: 25 (mL)

Date Analyzed: 02/07/2024 00:11

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 470708

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.36		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.48		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	6.57		0.50	0.10
79-00-5	1,1,2-Trichloroethane	6.17		0.50	0.080
75-34-3	1,1-Dichloroethane	6.38		0.50	0.10
75-35-4	1,1-Dichloroethene	6.33		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	6.01		0.50	0.080
107-06-2	1,2-Dichloroethane	5.11		0.50	0.070
78-87-5	1,2-Dichloropropane	6.56		0.50	0.10
78-93-3	2-Butanone (MEK)	79.3		5.0	1.0
591-78-6	2-Hexanone	74.8		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	75.4		5.0	1.0
67-64-1	Acetone	74.6		5.0	1.0
71-43-2	Benzene	6.27		0.50	0.10
74-97-5	Bromochloromethane	5.60		0.50	0.080
75-27-4	Bromodichloromethane	5.62		0.50	0.080
75-25-2	Bromoform	5.03		1.0	0.30
74-83-9	Bromomethane	4.41		0.50	0.10
75-15-0	Carbon disulfide	6.25		1.0	0.10
56-23-5	Carbon tetrachloride	5.41		0.50	0.10
108-90-7	Chlorobenzene	5.98		0.50	0.070
75-00-3	Chloroethane	5.24		0.50	0.10
67-66-3	Chloroform	5.61		0.50	0.090
74-87-3	Chloromethane	5.42		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	6.53		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.67		0.50	0.10
124-48-1	Dibromochloromethane	5.69		0.50	0.080
100-41-4	Ethylbenzene	6.16		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.10		0.50	0.080
75-09-2	Methylene Chloride	6.13		0.50	0.20
100-42-5	Styrene	5.92		0.50	0.070
127-18-4	Tetrachloroethene	7.69		0.50	0.20
108-88-3	Toluene	6.27		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-15-0/1-0 MS MS Lab Sample ID: 410-159022-6 MS

Matrix: Water Lab File ID: IF06X13.D

Analysis Method: 8260D Date Collected: 01/29/2024 11:33

Sample wt/vol: 25 (mL) Date Analyzed: 02/07/2024 00:11

Soil Aliquot Vol: _____ Dilution Factor: 1

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

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

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

Analysis Batch No.: 470708 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.94		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	6.14		0.50	0.080
79-01-6	Trichloroethene	6.32		0.50	0.080
75-01-4	Vinyl chloride	5.34		0.50	0.10
1330-20-7	Xylenes, Total	17.8		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	91		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X13.D
 Lims ID: 410-159022-A-6 MS
 Client ID: HD-COD-SW-15-0/1-0 MS
 Sample Type: MS
 Inject. Date: 07-Feb-2024 00:11:30 ALS Bottle#: 13 Worklist Smp#: 14
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105725-014
 Operator ID: gaw91131 Instrument ID: 19930
 Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 07-Feb-2024 13:01:18 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1658

First Level Reviewer: N9NA

Date: 07-Feb-2024 13:14:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.831	1.831	0.000	99	340312	5.00	5.26	
4 Chloromethane	50	2.013	2.014	-0.001	99	329116	5.00	5.42	
5 Vinyl chloride	62	2.117	2.117	0.000	98	320310	5.00	5.34	
6 Butadiene	39	2.135	2.135	0.000	90	320400	5.00	5.48	
7 Bromomethane	94	2.440	2.446	-0.006	90	216158	5.00	4.41	
8 Chloroethane	64	2.513	2.513	0.000	100	185331	5.00	5.24	
9 Dichlorofluoromethane	67	2.739	2.739	0.000	97	438243	5.00	4.16	
10 Trichlorofluoromethane	101	2.800	2.800	0.000	98	393763	5.00	4.59	
13 1,2-Dichloro-1,1,2-trifluoroethane	67	3.111	3.111	0.000	92	345737	5.00	6.27	
15 1,1-Dichloroethene	96	3.312	3.306	0.006	98	238240	5.00	6.33	
16 Acetone	43	3.336	3.330	0.006	100	488862	62.6	74.6	
17 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.355	3.355	0.000	91	233049	5.00	5.80	
18 Iodomethane	142	3.495	3.489	0.006	99	396025	5.00	4.82	
20 Carbon disulfide	76	3.599	3.593	0.006	99	665392	5.00	6.25	
23 Methyl acetate	43	3.733	3.727	0.006	97	112273	5.00	7.35	
24 3-Chloro-1-propene	41	3.751	3.745	0.006	93	368533	5.00	6.12	
25 Methylene Chloride	84	3.928	3.922	0.006	93	257277	5.00	6.13	
* 26 t-Butyl alcohol-d10 (IS)	65	3.934	3.940	-0.006	99	144447	50.0	50.0	
27 2-Methyl-2-propanol	59	4.056	4.038	0.018	99	138376	50.0	56.1	
28 Acrylonitrile	53	4.245	4.239	0.006	99	270985	25.0	36.1	
29 Methyl tert-butyl ether	73	4.306	4.306	0.000	95	586683	5.00	5.10	
30 trans-1,2-Dichloroethene	96	4.318	4.318	0.000	99	257893	5.00	5.94	
31 Hexane	57	4.751	4.745	0.006	92	388017	5.00	7.60	
32 1,1-Dichloroethane	63	4.982	4.976	0.006	96	493518	5.00	6.38	
35 Isopropyl ether	45	5.037	5.043	-0.006	94	760123	5.00	6.08	
36 2-Chloro-1,3-butadiene	53	5.092	5.086	0.006	90	389858	5.00	5.79	
37 Tert-butyl ethyl ether	59	5.586	5.574	0.012	97	694869	5.00	5.41	
38 2-Butanone (MEK)	43	5.793	5.787	0.006	99	912110	62.6	79.3	
39 cis-1,2-Dichloroethene	96	5.818	5.812	0.006	82	324406	5.00	6.53	
40 2,2-Dichloropropane	77	5.824	5.824	0.000	87	404746	5.00	5.40	
43 Propionitrile	54	5.879	5.866	0.013	98	145888	37.5	47.3	
45 Methacrylonitrile	67	6.092	6.086	0.006	91	543929	37.5	48.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
46 Chlorobromomethane	128	6.153	6.147	0.006	95	127963	5.00	5.60	
47 Tetrahydrofuran	71	6.171	6.159	0.012	82	105988	25.0	30.7	
48 Chloroform	83	6.305	6.299	0.006	93	478270	5.00	5.61	
\$ 49 Dibromofluoromethane (Surr)	113	6.525	6.519	0.006	94	391417	10.0	9.10	
50 1,1,1-Trichloroethane	97	6.531	6.525	0.006	97	434747	5.00	5.48	
51 Cyclohexane	56	6.628	6.629	-0.001	91	463985	5.00	7.01	
54 Carbon tetrachloride	117	6.744	6.738	0.006	96	385610	5.00	5.41	
53 1,1-Dichloropropene	75	6.750	6.744	0.006	97	378063	5.00	6.18	
55 Isobutyl alcohol	41	6.915	6.903	0.012	93	121567	125.1	144.0	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.976	6.970	0.006	86	87770	10.0	10.4	
57 Benzene	78	7.006	7.000	0.006	97	1124392	5.00	6.27	
58 1,2-Dichloroethane	62	7.086	7.080	0.006	97	283664	5.00	5.11	
60 Tert-amyl methyl ether	73	7.208	7.202	0.006	98	631742	5.00	5.22	
* 61 Fluorobenzene (IS)	96	7.415	7.409	0.006	98	1631877	10.0	10.0	
62 n-Heptane	43	7.433	7.427	0.006	90	433861	5.00	8.32	
63 n-Butanol	56	7.805	7.793	0.012	91	205661	250.2	333.2	
64 Trichloroethene	95	7.896	7.897	-0.001	99	322014	5.00	6.32	
65 Methylcyclohexane	83	8.201	8.201	0.000	93	496851	5.00	6.56	
66 1,2-Dichloropropane	63	8.226	8.220	0.006	98	286096	5.00	6.56	
67 Methyl methacrylate	69	8.323	8.317	0.006	92	126444	5.00	5.76	
68 1,4-Dioxane	88	8.323	8.317	0.006	32	28517	125.1	196.8	
69 Dibromomethane	93	8.341	8.336	0.005	94	131620	5.00	5.52	
71 Dichlorobromomethane	83	8.573	8.573	0.000	100	338043	5.00	5.62	
72 2-Nitropropane	41	8.841	8.835	0.006	98	34844	5.00	4.33	
75 1-Bromo-2-chloroethane	63	8.969	8.963	0.006	99	295541	5.00	6.59	
76 cis-1,3-Dichloropropene	75	9.140	9.134	0.006	96	387681	5.00	5.67	
77 4-Methyl-2-pentanone (MIBK)	43	9.311	9.311	0.000	96	2295348	62.6	75.4	
\$ 78 Toluene-d8 (Surr)	98	9.457	9.451	0.006	93	1635191	10.0	10.4	
79 Toluene	92	9.530	9.530	0.000	98	729067	5.00	6.27	
97 trans-1,3-Dichloropropene	75	9.805	9.805	0.000	92	335164	5.00	6.14	
99 Ethyl methacrylate	69	9.872	9.872	0.000	90	264391	5.00	5.78	
100 1,1,2-Trichloroethane	97	10.012	10.006	0.006	90	200043	5.00	6.17	
101 Tetrachloroethene	166	10.097	10.097	0.000	98	463538	5.00	7.69	
102 1,3-Dichloropropane	76	10.177	10.171	0.006	90	345134	5.00	6.58	
103 2-Hexanone	43	10.231	10.231	0.000	96	1633155	62.6	74.8	
105 Chlorodibromomethane	129	10.396	10.396	0.000	90	245666	5.00	5.69	
106 Ethylene Dibromide	107	10.506	10.506	0.000	98	187415	5.00	6.01	
* 107 Chlorobenzene-d5 (IS)	117	10.945	10.945	0.000	85	1231654	10.0	10.0	
108 1-Chlorohexane	91	10.957	10.957	0.000	98	385535	5.00	5.92	
109 Chlorobenzene	112	10.969	10.969	0.000	96	797272	5.00	5.98	
111 1,1,1,2-Tetrachloroethane	131	11.054	11.054	0.000	95	267568	5.00	5.36	
112 Ethylbenzene	91	11.060	11.061	-0.001	98	1408569	5.00	6.16	
113 m-Xylene & p-Xylene	106	11.176	11.176	0.000	93	1113106	10.0	12.1	
114 o-Xylene	106	11.506	11.506	0.000	97	516621	5.00	5.67	
115 Styrene	104	11.524	11.524	0.000	95	846729	5.00	5.92	
116 Bromoform	173	11.682	11.682	0.000	97	146597	5.00	5.03	
117 Isopropylbenzene	105	11.810	11.810	0.000	96	1385561	5.00	6.15	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.957	11.957	0.000	93	596838	10.0	10.0	
121 1,1,2,2-Tetrachloroethane	83	12.054	12.054	0.000	93	254194	5.00	6.57	
122 Bromobenzene	156	12.072	12.066	0.006	97	324130	5.00	5.70	
123 trans-1,4-Dichloro-2-butene	53	12.079	12.079	0.000	91	258676	25.0	20.6	
124 1,2,3-Trichloropropane	110	12.103	12.103	0.000	82	67971	5.00	6.02	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
125 N-Propylbenzene	91	12.140	12.140	0.000	99	1664601	5.00	6.60	
126 2-Chlorotoluene	126	12.213	12.213	0.000	97	323737	5.00	5.98	
127 1,3,5-Trimethylbenzene	105	12.280	12.280	0.000	94	1158961	5.00	6.16	
128 4-Chlorotoluene	126	12.310	12.310	0.000	97	326783	5.00	6.01	
129 tert-Butylbenzene	134	12.518	12.518	0.000	93	244959	5.00	5.39	
131 1,2,4-Trimethylbenzene	105	12.560	12.560	0.000	98	1159767	5.00	6.10	
132 sec-Butylbenzene	105	12.682	12.682	0.000	94	1537975	5.00	6.39	
133 1,3-Dichlorobenzene	146	12.780	12.780	0.000	98	627564	5.00	5.80	
134 4-Isopropyltoluene	119	12.792	12.792	0.000	97	1298509	5.00	6.12	
* 135 1,4-Dichlorobenzene-d4	152	12.835	12.835	0.000	94	696267	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.853	12.853	0.000	95	646093	5.00	5.79	
137 1,2,3-Trimethylbenzene	120	12.865	12.865	0.000	98	480156	5.00	5.56	
138 Benzyl chloride	126	12.932	12.932	0.000	98	94376	5.00	5.69	
139 n-Butylbenzene	92	13.084	13.085	-0.001	97	648354	5.00	6.69	
140 1,2-Dichlorobenzene	146	13.115	13.109	0.006	99	585076	5.00	5.75	
142 1,2-Dibromo-3-Chloropropane	155	13.658	13.652	0.006	87	34158	5.00	5.09	
143 1,3,5-Trichlorobenzene	180	13.779	13.780	-0.001	98	451043	5.00	5.69	
144 1,2,4-Trichlorobenzene	180	14.200	14.200	0.000	94	364617	5.00	5.67	
145 Hexachlorobutadiene	225	14.285	14.286	-0.001	96	194538	5.00	6.29	
146 Naphthalene	128	14.383	14.377	0.006	97	665101	5.00	5.54	
147 1,2,3-Trichlorobenzene	180	14.523	14.523	0.000	95	296905	5.00	5.62	
165 Isopropyl alcohol	45		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MSV_LCS_VOC#1_00152

Amount Added: 5.38

Units: uL

MSV_QC_Gas826_00182

Amount Added: 5.38

Units: uL

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 07-Feb-2024 13:14:33

Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X13.D

Injection Date: 07-Feb-2024 00:11:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-159022-A-6 MS

Worklist Smp#: 14

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

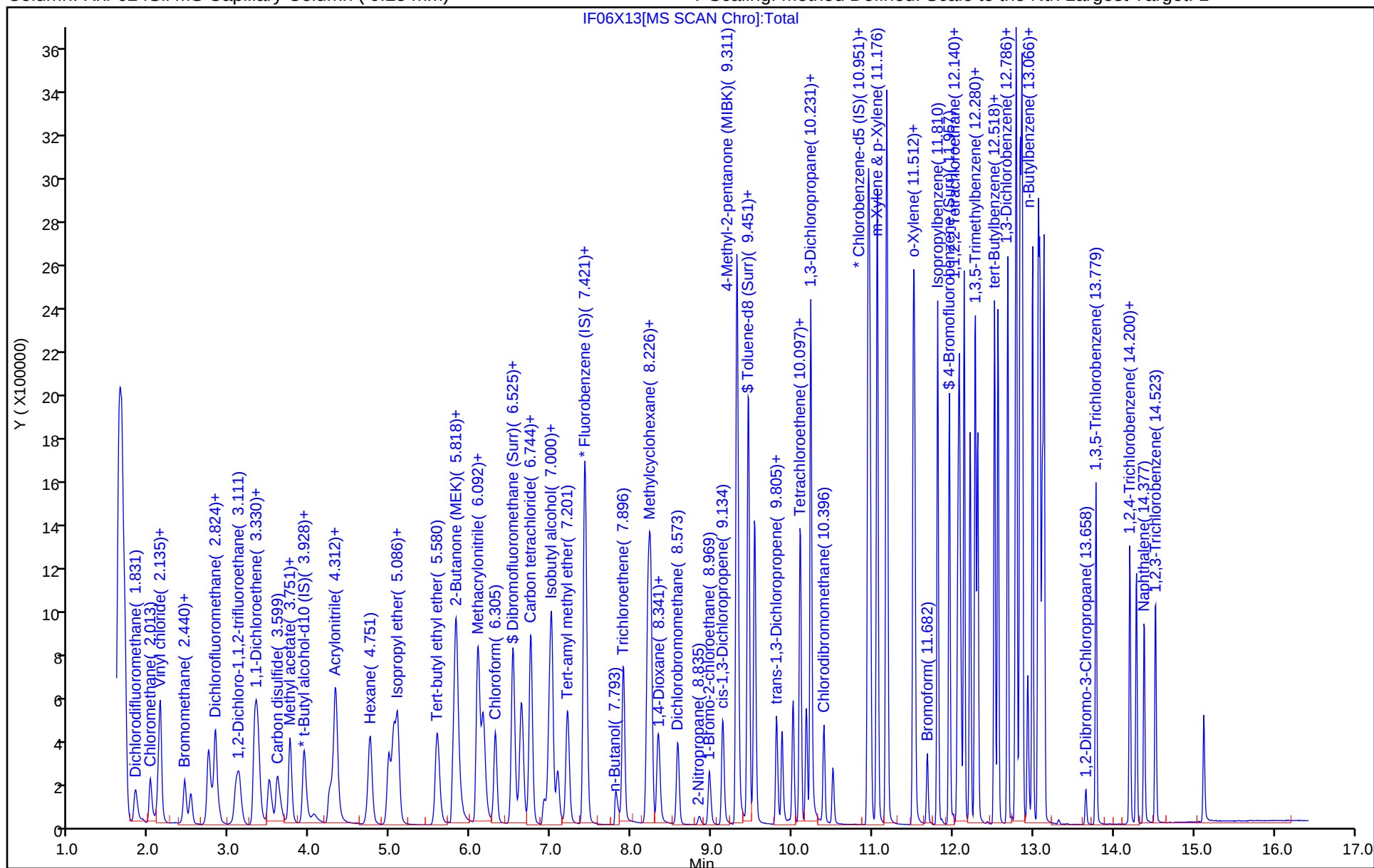
ALS Bottle#: 13

Method: 8260 25ml HP31

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\19930\20240206-105725.b\IF06X13.D
Lims ID: 410-159022-A-6 MS
Client ID: HD-COD-SW-15-0/1-0 MS
Sample Type: MS
Inject. Date: 07-Feb-2024 00:11:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0105725-014
Operator ID: gaw91131 Instrument ID: 19930
Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 07-Feb-2024 13:01:18 Calib Date: 23-Oct-2023 04:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1658

First Level Reviewer: N9NA

Date: 07-Feb-2024 13:14:32

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	9.10	91.05
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.04
\$ 78 Toluene-d8 (Surr)	10.0	10.4	103.96
\$ 120 4-Bromofluorobenzene (Surr)	10.0	10.0	100.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories
Environment Testing, LLC

Job No.: 410-159022-1

SDG No.:

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

Lab Sample ID: 410-159022-6 MSD

Matrix: Water

Lab File ID: IF06X14.D

Analysis Method: 8260D

Date Collected: 01/29/2024 11:33

Sample wt/vol: 25 (mL)

Date Analyzed: 02/07/2024 00:32

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.: 470708

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.43		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.59		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	6.87		0.50	0.10
79-00-5	1,1,2-Trichloroethane	6.21		0.50	0.080
75-34-3	1,1-Dichloroethane	6.58		0.50	0.10
75-35-4	1,1-Dichloroethene	6.45		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	6.18		0.50	0.080
107-06-2	1,2-Dichloroethane	5.23		0.50	0.070
78-87-5	1,2-Dichloropropane	6.77		0.50	0.10
78-93-3	2-Butanone (MEK)	80.3		5.0	1.0
591-78-6	2-Hexanone	77.5		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	76.9		5.0	1.0
67-64-1	Acetone	76.0		5.0	1.0
71-43-2	Benzene	6.35		0.50	0.10
74-97-5	Bromochloromethane	5.62		0.50	0.080
75-27-4	Bromodichloromethane	5.68		0.50	0.080
75-25-2	Bromoform	5.22		1.0	0.30
74-83-9	Bromomethane	4.32		0.50	0.10
75-15-0	Carbon disulfide	6.39		1.0	0.10
56-23-5	Carbon tetrachloride	5.50		0.50	0.10
108-90-7	Chlorobenzene	6.01		0.50	0.070
75-00-3	Chloroethane	5.10		0.50	0.10
67-66-3	Chloroform	5.70		0.50	0.090
74-87-3	Chloromethane	5.21		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	6.67		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.82		0.50	0.10
124-48-1	Dibromochloromethane	5.78		0.50	0.080
100-41-4	Ethylbenzene	6.28		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.29		0.50	0.080
75-09-2	Methylene Chloride	6.17		0.50	0.20
100-42-5	Styrene	5.95		0.50	0.070
127-18-4	Tetrachloroethene	7.73		0.50	0.20
108-88-3	Toluene	6.42		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1
Environment Testing, LLC

SDG No.: _____

Client Sample ID: HD-COD-SW-15-0/1-0 MSD Lab Sample ID: 410-159022-6 MSD
MSD

Matrix: Water Lab File ID: IF06X14.D

Analysis Method: 8260D Date Collected: 01/29/2024 11:33

Sample wt/vol: 25 (mL) Date Analyzed: 02/07/2024 00:32

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.: 470708 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	6.17		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	6.35		0.50	0.080
79-01-6	Trichloroethene	6.42		0.50	0.080
75-01-4	Vinyl chloride	5.24		0.50	0.10
1330-20-7	Xylenes, Total	17.9		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)	91		80-120
2037-26-5	Toluene-d8 (Surr)	103		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X14.D
 Lims ID: 410-159022-A-6 MSD
 Client ID: HD-COD-SW-15-0/1-0 MSD
 Sample Type: MSD
 Inject. Date: 07-Feb-2024 00:32:30 ALS Bottle#: 14 Worklist Smp#: 15
 Purge Vol: 25.000 mL Dil. Factor: 1.0000
 Sample Info: 410-0105725-015
 Operator ID: gaw91131 Instrument ID: 19930
 Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
 Limit Group: MSV - 8260C_D
 Last Update: 07-Feb-2024 13:01:18 Calib Date: 23-Oct-2023 04:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
 Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
 Process Host: CTX1658

First Level Reviewer: N9NA

Date: 07-Feb-2024 13:16:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.825	1.831	-0.006	99	339356	5.00	5.19	
4 Chloromethane	50	2.014	2.014	0.000	99	319218	5.00	5.21	
5 Vinyl chloride	62	2.117	2.117	0.000	98	317215	5.00	5.24	
6 Butadiene	39	2.136	2.135	0.001	89	311047	5.00	5.26	
7 Bromomethane	94	2.440	2.446	-0.006	90	214202	5.00	4.32	
8 Chloroethane	64	2.514	2.513	0.001	100	182037	5.00	5.10	
9 Dichlorofluoromethane	67	2.739	2.739	0.000	97	439987	5.00	4.14	
10 Trichlorofluoromethane	101	2.800	2.800	0.000	98	389642	5.00	4.50	
13 1,2-Dichloro-1,1,2-trifluoroethane	67	3.099	3.111	-0.012	93	348064	5.00	6.25	
15 1,1-Dichloroethene	96	3.312	3.306	0.006	98	245214	5.00	6.45	
16 Acetone	43	3.337	3.330	0.007	100	502996	62.6	76.0	
17 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.349	3.355	-0.006	91	241270	5.00	5.94	
18 Iodomethane	142	3.495	3.489	0.006	99	411494	5.00	4.96	
20 Carbon disulfide	76	3.599	3.593	0.006	99	686471	5.00	6.39	
23 Methyl acetate	43	3.733	3.727	0.006	97	134048	5.00	8.69	
24 3-Chloro-1-propene	41	3.751	3.745	0.006	93	376985	5.00	6.20	
25 Methylene Chloride	84	3.928	3.922	0.006	92	261553	5.00	6.17	
* 26 t-Butyl alcohol-d10 (IS)	65	3.940	3.940	0.000	99	145838	50.0	50.0	
27 2-Methyl-2-propanol	59	4.056	4.038	0.018	99	142705	50.0	57.3	
28 Acrylonitrile	53	4.251	4.239	0.012	100	278349	25.0	36.8	
29 Methyl tert-butyl ether	73	4.312	4.306	0.006	95	614959	5.00	5.29	
30 trans-1,2-Dichloroethene	96	4.324	4.318	0.006	99	270469	5.00	6.17	
31 Hexane	57	4.751	4.745	0.006	92	401399	5.00	7.78	
32 1,1-Dichloroethane	63	4.977	4.976	0.001	96	513780	5.00	6.58	
35 Isopropyl ether	45	5.050	5.043	0.007	94	792113	5.00	6.27	
36 2-Chloro-1,3-butadiene	53	5.092	5.086	0.006	91	400942	5.00	5.89	
37 Tert-butyl ethyl ether	59	5.586	5.574	0.012	98	719420	5.00	5.54	
38 2-Butanone (MEK)	43	5.787	5.787	0.000	99	932711	62.6	80.3	
39 cis-1,2-Dichloroethene	96	5.818	5.812	0.006	82	334708	5.00	6.67	
40 2,2-Dichloropropane	77	5.830	5.824	0.006	86	415654	5.00	5.49	
43 Propionitrile	54	5.885	5.866	0.019	98	156775	37.5	50.3	
45 Methacrylonitrile	67	6.092	6.086	0.006	91	565212	37.5	49.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
46 Chlorobromomethane	128	6.153	6.147	0.006	95	129839	5.00	5.62	
47 Tetrahydrofuran	71	6.171	6.159	0.012	81	107589	25.0	30.9	
48 Chloroform	83	6.306	6.299	0.007	93	490993	5.00	5.70	
\$ 49 Dibromofluoromethane (Surr)	113	6.525	6.519	0.006	94	395210	10.0	9.10	
50 1,1,1-Trichloroethane	97	6.525	6.525	0.000	98	448250	5.00	5.59	
51 Cyclohexane	56	6.635	6.629	0.006	90	475875	5.00	7.12	
54 Carbon tetrachloride	117	6.744	6.738	0.006	97	396070	5.00	5.50	
53 1,1-Dichloropropene	75	6.751	6.744	0.007	98	391956	5.00	6.34	
55 Isobutyl alcohol	41	6.915	6.903	0.012	94	127348	125.1	149.4	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	6.976	6.970	0.006	85	87761	10.0	10.3	
57 Benzene	78	7.007	7.000	0.007	97	1150981	5.00	6.35	
58 1,2-Dichloroethane	62	7.080	7.080	0.000	97	293168	5.00	5.23	
60 Tert-amyl methyl ether	73	7.208	7.202	0.006	99	656843	5.00	5.37	
* 61 Fluorobenzene (IS)	96	7.415	7.409	0.006	98	1648379	10.0	10.0	
62 n-Heptane	43	7.433	7.427	0.006	92	445315	5.00	8.45	
63 n-Butanol	56	7.805	7.793	0.012	90	215141	250.2	345.2	
64 Trichloroethene	95	7.897	7.897	0.000	98	330339	5.00	6.42	
65 Methylcyclohexane	83	8.202	8.201	0.001	93	515292	5.00	6.74	
66 1,2-Dichloropropane	63	8.226	8.220	0.006	92	297818	5.00	6.77	
67 Methyl methacrylate	69	8.323	8.317	0.006	93	131384	5.00	5.93	
68 1,4-Dioxane	88	8.330	8.317	0.013	31	29592	125.1	202.3	
69 Dibromomethane	93	8.336	8.336	0.000	94	136148	5.00	5.66	
71 Dichlorobromomethane	83	8.579	8.573	0.006	99	345284	5.00	5.68	
72 2-Nitropropane	41	8.848	8.835	0.013	99	37080	5.00	4.56	
75 1-Bromo-2-chloroethane	63	8.970	8.963	0.007	99	303145	5.00	6.69	
76 cis-1,3-Dichloropropene	75	9.134	9.134	0.000	96	401967	5.00	5.82	
77 4-Methyl-2-pentanone (MIBK)	43	9.311	9.311	0.000	96	2365109	62.6	76.9	
\$ 78 Toluene-d8 (Surr)	98	9.451	9.451	0.000	93	1639964	10.0	10.3	
79 Toluene	92	9.531	9.530	0.001	98	753014	5.00	6.42	
97 trans-1,3-Dichloropropene	75	9.805	9.805	0.000	92	349696	5.00	6.35	
99 Ethyl methacrylate	69	9.872	9.872	0.000	89	278093	5.00	6.03	
100 1,1,2-Trichloroethane	97	10.012	10.006	0.006	90	202993	5.00	6.21	
101 Tetrachloroethene	166	10.097	10.097	0.000	98	469880	5.00	7.73	
102 1,3-Dichloropropane	76	10.177	10.171	0.007	90	354650	5.00	6.71	
103 2-Hexanone	43	10.232	10.231	0.001	96	1709742	62.6	77.5	
105 Chlorodibromomethane	129	10.396	10.396	0.000	90	251890	5.00	5.78	
106 Ethylene Dibromide	107	10.506	10.506	0.000	98	194219	5.00	6.18	
* 107 Chlorobenzene-d5 (IS)	117	10.945	10.945	0.000	85	1241846	10.0	10.0	
108 1-Chlorohexane	91	10.957	10.957	0.000	98	395263	5.00	6.02	
109 Chlorobenzene	112	10.969	10.969	0.000	95	808598	5.00	6.01	
111 1,1,1,2-Tetrachloroethane	131	11.055	11.054	0.001	95	273520	5.00	5.43	
112 Ethylbenzene	91	11.061	11.061	0.000	98	1448975	5.00	6.28	
113 m-Xylene & p-Xylene	106	11.177	11.176	0.001	93	1130539	10.0	12.2	
114 o-Xylene	106	11.506	11.506	0.000	97	526718	5.00	5.73	
115 Styrene	104	11.524	11.524	0.000	95	858317	5.00	5.95	
116 Bromoform	173	11.683	11.682	0.001	97	153438	5.00	5.22	
117 Isopropylbenzene	105	11.811	11.810	0.001	96	1422747	5.00	6.27	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.957	11.957	0.000	93	600906	10.0	10.0	
121 1,1,2,2-Tetrachloroethane	83	12.054	12.054	0.000	93	262838	5.00	6.87	
122 Bromobenzene	156	12.067	12.066	0.001	97	331948	5.00	5.90	
123 trans-1,4-Dichloro-2-butene	53	12.085	12.079	0.006	94	271544	25.0	21.4	
124 1,2,3-Trichloropropane	110	12.103	12.103	0.000	82	69448	5.00	6.22	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
125 N-Propylbenzene	91	12.140	12.140	0.000	99	1694497	5.00	6.79	
126 2-Chlorotoluene	126	12.213	12.213	0.000	97	331107	5.00	6.18	
127 1,3,5-Trimethylbenzene	105	12.280	12.280	0.000	94	1181791	5.00	6.34	
128 4-Chlorotoluene	126	12.310	12.310	0.000	97	335632	5.00	6.24	
129 tert-Butylbenzene	134	12.518	12.518	0.000	93	246968	5.00	5.49	
131 1,2,4-Trimethylbenzene	105	12.560	12.560	0.000	98	1179145	5.00	6.27	
132 sec-Butylbenzene	105	12.682	12.682	0.000	94	1573148	5.00	6.61	
133 1,3-Dichlorobenzene	146	12.780	12.780	0.000	98	635773	5.00	5.94	
134 4-Isopropyltoluene	119	12.792	12.792	0.000	97	1322081	5.00	6.30	
* 135 1,4-Dichlorobenzene-d4	152	12.835	12.835	0.000	94	689064	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.853	12.853	0.000	94	656348	5.00	5.94	
137 1,2,3-Trimethylbenzene	120	12.865	12.865	0.000	98	489969	5.00	5.73	
138 Benzyl chloride	126	12.932	12.932	0.000	98	98318	5.00	5.99	
139 n-Butylbenzene	92	13.085	13.085	0.000	97	669155	5.00	6.98	
140 1,2-Dichlorobenzene	146	13.115	13.109	0.006	99	585308	5.00	5.81	
142 1,2-Dibromo-3-Chloropropane	155	13.652	13.652	0.000	86	34100	5.00	5.13	
143 1,3,5-Trichlorobenzene	180	13.780	13.780	0.000	98	458256	5.00	5.84	
144 1,2,4-Trichlorobenzene	180	14.200	14.200	0.000	94	374127	5.00	5.88	
145 Hexachlorobutadiene	225	14.286	14.286	0.000	97	197184	5.00	6.45	
146 Naphthalene	128	14.383	14.377	0.006	97	700208	5.00	5.89	
147 1,2,3-Trichlorobenzene	180	14.523	14.523	0.000	95	307544	5.00	5.88	
165 Isopropyl alcohol	45		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
155 2-Methylnaphthalene	142		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MSV_LCS_VOC#1_00152

Amount Added: 5.38

Units: uL

MSV_QC_Gas826_00182

Amount Added: 5.38

Units: uL

MSV_LLcentISS_00012

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 07-Feb-2024 13:16:21

Chrom Revision: 2.3 02-Feb-2024 10:24:08

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\IF06X14.D

Injection Date: 07-Feb-2024 00:32:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-159022-A-6 MSD

Worklist Smp#: 15

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

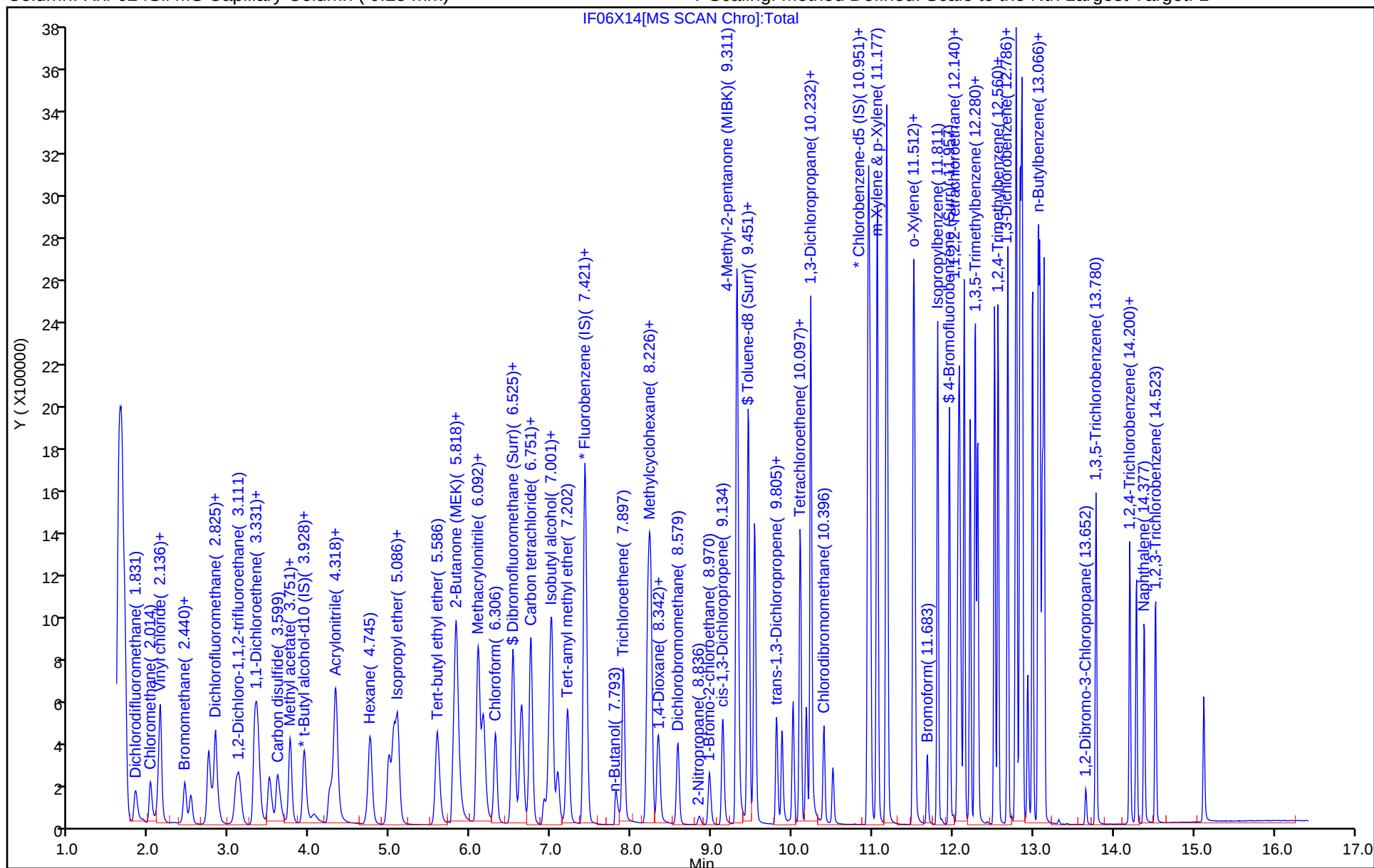
ALS Bottle#: 14

Method: 8260 25ml HP31

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\19930\20240206-105725.b\IF06X14.D
Lims ID: 410-159022-A-6 MSD
Client ID: HD-COD-SW-15-0/1-0 MSD
Sample Type: MSD
Inject. Date: 07-Feb-2024 00:32:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0105725-015
Operator ID: gaw91131 Instrument ID: 19930
Method: \\chromfs\Lancaster\ChromData\19930\20240206-105725.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 07-Feb-2024 13:01:18 Calib Date: 23-Oct-2023 04:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20231022-97328.b\IO22X18.D
Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1658

First Level Reviewer: N9NA

Date: 07-Feb-2024 13:16:20

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	9.10	91.01
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	102.99
\$ 78 Toluene-d8 (Surr)	10.0	10.3	103.40
\$ 120 4-Bromofluorobenzene (Surr)	10.0	10.0	100.13

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-159022-1

SDG No.:

Instrument ID: 19930

Start Date: 10/22/2023 22:21

Analysis Batch Number: 434273

End Date: 10/23/2023 05:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-434273/1		10/22/2023 22:21	1	IO22T01.D	R-624SiIMS 30m 0.25 (mm)
IC 410-434273/3		10/22/2023 23:00	1		R-624SiIMS 30m 0.25 (mm)
IC 410-434273/4		10/22/2023 23:21	1		R-624SiIMS 30m 0.25 (mm)
IC 410-434273/5		10/22/2023 23:41	1		R-624SiIMS 30m 0.25 (mm)
IC 410-434273/6		10/23/2023 00:02	1		R-624SiIMS 30m 0.25 (mm)
IC 410-434273/7		10/23/2023 00:23	1		R-624SiIMS 30m 0.25 (mm)
IC 410-434273/8		10/23/2023 00:44	1		R-624SiIMS 30m 0.25 (mm)
IC 410-434273/9		10/23/2023 01:05	1		R-624SiIMS 30m 0.25 (mm)
ICV 410-434273/11		10/23/2023 01:48	1		R-624SiIMS 30m 0.25 (mm)
IC 410-434273/13		10/23/2023 02:29	1	IO22X12.D	R-624SiIMS 30m 0.25 (mm)
IC 410-434273/14		10/23/2023 02:50	1	IO22X13.D	R-624SiIMS 30m 0.25 (mm)
IC 410-434273/15		10/23/2023 03:11	1	IO22X14.D	R-624SiIMS 30m 0.25 (mm)
IC 410-434273/16		10/23/2023 03:32	1	IO22X15.D	R-624SiIMS 30m 0.25 (mm)
IC 410-434273/17		10/23/2023 03:53	1	IO22X16.D	R-624SiIMS 30m 0.25 (mm)
ICIS 410-434273/18		10/23/2023 04:14	1	IO22X17.D	R-624SiIMS 30m 0.25 (mm)
IC 410-434273/19		10/23/2023 04:35	1	IO22X18.D	R-624SiIMS 30m 0.25 (mm)
ICV 410-434273/21		10/23/2023 05:17	1	IO22X20.D	R-624SiIMS 30m 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment
Testing, LLC

Job No.: 410-159022-1

SDG No.:

Instrument ID: 19930

Start Date: 02/06/2024 19:32

Analysis Batch Number: 470708

End Date: 02/07/2024 07:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-470708/1		02/06/2024 19:32	1	IF06T01.D	R-624Si1MS 30m 0.25 (mm)
CCVIS 410-470708/3		02/06/2024 20:07	1	IF06X02.D	R-624Si1MS 30m 0.25 (mm)
LCS 410-470708/4		02/06/2024 20:28	1	IF06X03.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		02/06/2024 20:48	1		R-624Si1MS 30m 0.25 (mm)
MB 410-470708/6		02/06/2024 21:09	1	IF06X05.D	R-624Si1MS 30m 0.25 (mm)
410-159022-14	HD-QC1-0/1-2	02/06/2024 21:44	1	IF06X06.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		02/06/2024 22:05	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		02/06/2024 22:26	5		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		02/06/2024 22:47	500		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		02/06/2024 23:09	1000		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		02/06/2024 23:29	50000		R-624Si1MS 30m 0.25 (mm)
410-159022-6	HD-COD-SW-15-0/1-0	02/06/2024 23:50	1	IF06X12.D	R-624Si1MS 30m 0.25 (mm)
410-159022-6 MS	HD-COD-SW-15-0/1-0 MS MS	02/07/2024 00:11	1	IF06X13.D	R-624Si1MS 30m 0.25 (mm)
410-159022-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	02/07/2024 00:32	1	IF06X14.D	R-624Si1MS 30m 0.25 (mm)
410-159022-1	HD-COD-SW-6-0/1-0	02/07/2024 01:14	1	IF06X16.D	R-624Si1MS 30m 0.25 (mm)
410-159022-2	HD-COD-SW-7-0/1-0	02/07/2024 01:35	1	IF06X17.D	R-624Si1MS 30m 0.25 (mm)
410-159022-3	HD-COD-SW-8-0/1-0	02/07/2024 01:56	1	IF06X18.D	R-624Si1MS 30m 0.25 (mm)
410-159022-4	HD-COD-SW-9-0/1-0	02/07/2024 02:17	1	IF06X19.D	R-624Si1MS 30m 0.25 (mm)
410-159022-5	HD-COD-SW-13-0/1-0	02/07/2024 02:38	1	IF06X20.D	R-624Si1MS 30m 0.25 (mm)
410-159022-7	HD-COD-SW-16-0/1-0	02/07/2024 02:59	1	IF06X21.D	R-624Si1MS 30m 0.25 (mm)
410-159022-9	HD-COD-SW-26-0/1-0	02/07/2024 03:20	1	IF06X22.D	R-624Si1MS 30m 0.25 (mm)
410-159022-10	HD-COD-SW-27-0/1-0	02/07/2024 03:41	1	IF06X23.D	R-624Si1MS 30m 0.25 (mm)
410-159022-11	HD-COD-SW-28-0/1-0	02/07/2024 04:02	1	IF06X24.D	R-624Si1MS 30m 0.25 (mm)
410-159022-12	HD-COD-SW-29-0/1-0	02/07/2024 04:23	1	IF06X25.D	R-624Si1MS 30m 0.25 (mm)
410-159022-8	HD-COD-SW-17-0/1-0	02/07/2024 04:44	1	IF06X26.D	R-624Si1MS 30m 0.25 (mm)
410-159022-8 DL	HD-COD-SW-17-0/1-0 DL	02/07/2024 05:05	10	IF06X27.D	R-624Si1MS 30m 0.25 (mm)
410-159022-13	HD-QC1-0/1-1	02/07/2024 05:26	1	IF06X28.D	R-624Si1MS 30m 0.25 (mm)
410-159022-13 DL	HD-QC1-0/1-1 DL	02/07/2024 05:47	10	IF06X29.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		02/07/2024 06:08	10		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		02/07/2024 06:29	100		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		02/07/2024 06:50	500		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		02/07/2024 07:11	5000		R-624Si1MS 30m 0.25 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1

SDG No.: _____

Batch Number: 434273 Batch Start Date: 10/22/23 22:21 Batch Analyst: Kephart, KaylaBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	LCS_ETBR 00006	MSV_LCS_ACROL 00136	MSV_LCS_EE 00007
BFB 410-434273/1		8260D		1 uL	1 uL				
IC 410-434273/13		8260D		25 mL	25 mL	2711			
IC 410-434273/14		8260D		25 mL	25 mL	2711			
IC 410-434273/15		8260D		25 mL	25 mL	2711			
IC 410-434273/16		8260D		25 mL	25 mL	2711			
IC 410-434273/17		8260D		25 mL	25 mL	2711			
ICIS 410-434273/18		8260D		25 mL	25 mL	2711			
IC 410-434273/19		8260D		25 mL	25 mL	2711			
ICV 410-434273/21		8260D		25 mL	25 mL	2711	12.5 uL	12.5 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_Penta 00033	MSV_LCS_VOC#1 00135	MSV_LL_#1_826 00100	MSV_LL_#2_826 00109	MSV_LL_GAS826 00175	MSV_LLcentISS 00009
BFB 410-434273/1		8260D							
IC 410-434273/13		8260D				2 uL	2 uL	2 uL	5 uL
IC 410-434273/14		8260D				2 uL	2 uL	2 uL	5 uL
IC 410-434273/15		8260D				2 uL	2 uL	2 uL	5 uL
IC 410-434273/16		8260D				2 uL	2 uL	2 uL	5 uL
IC 410-434273/17		8260D				5 uL	5 uL	5 uL	5 uL
ICIS 410-434273/18		8260D				10 uL	10 uL	10 uL	5 uL
IC 410-434273/19		8260D				25 uL	25 uL	25 uL	5 uL
ICV 410-434273/21		8260D		12.5 uL	12.5 uL				5 uL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 1 of 2

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1

SDG No.: _____

Batch Number: 434273 Batch Start Date: 10/22/23 22:21 Batch Analyst: Kephart, KaylaBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_QC_Gas826 00165	MSV_V_BFB 00012				
BFB 410-434273/1		8260D			1 uL				
IC 410-434273/13		8260D							
IC 410-434273/14		8260D							
IC 410-434273/15		8260D							
IC 410-434273/16		8260D							
IC 410-434273/17		8260D							
ICIS 410-434273/18		8260D							
IC 410-434273/19		8260D							
ICV 410-434273/21		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.: 410-159022-1

SDG No.:

Batch Number: 470708

Batch Start Date: 02/06/24 19:32

Batch Analyst: Walmer, Gavin

Batch Method: 8260D

Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloChe ck	Headspace	Lot#Vial
BFB 410-470708/1		8260D		1 uL	1 uL				
CCVIS 410-470708/3		8260D		25 mL	25 mL				2731
LCS 410-470708/4		8260D		25 mL	25 mL				2731
MB 410-470708/6		8260D		25 mL	25 mL				2731
410-159022-A-14	HD-QC1-0/1-2	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-159022-A-6	HD-COD-SW-15-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-159022-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-159022-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-159022-A-1	HD-COD-SW-6-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-159022-A-2	HD-COD-SW-7-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-159022-A-3	HD-COD-SW-8-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-159022-A-4	HD-COD-SW-9-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-159022-A-5	HD-COD-SW-13-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-159022-A-7	HD-COD-SW-16-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-159022-A-9	HD-COD-SW-26-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-159022-A-10	HD-COD-SW-27-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-159022-A-11	HD-COD-SW-28-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-159022-A-12	HD-COD-SW-29-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-159022-A-8	HD-COD-SW-17-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-159022-B-8	HD-COD-SW-17-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	2731
410-159022-A-13	HD-QC1-0/1-1	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-159022-B-13	HD-QC1-0/1-1	8260D	T	25 mL	25 mL	<2 SU	N	N	2731

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 1 of 4

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1

SDG No.: _____

Batch Number: 470708 Batch Start Date: 02/06/24 19:32 Batch Analyst: Walmer, GavinBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_VOC#1 00152	MSV_LL_#1_826 00115	MSV_LL_#2_826 00124	MSV_LL_GAS826 00190	MSV_LLcentISS 00012	MSV_QC_Gas826 00182
BFB 410-470708/1		8260D							
CCVIS 410-470708/3		8260D			20 uL	20 uL	20 uL	5 uL	
LCS 410-470708/4		8260D		12.5 uL				5 uL	12.5 uL
MB 410-470708/6		8260D						5 uL	
410-159022-A-14	HD-QC1-0/1-2	8260D	T					5 uL	
410-159022-A-6	HD-COD-SW-15-0/1-0	8260D	T					5 uL	
410-159022-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	T	5.38 uL				5 uL	5.38 uL
410-159022-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	T	5.38 uL				5 uL	5.38 uL
410-159022-A-1	HD-COD-SW-6-0/1-0	8260D	T					5 uL	
410-159022-A-2	HD-COD-SW-7-0/1-0	8260D	T					5 uL	
410-159022-A-3	HD-COD-SW-8-0/1-0	8260D	T					5 uL	
410-159022-A-4	HD-COD-SW-9-0/1-0	8260D	T					5 uL	
410-159022-A-5	HD-COD-SW-13-0/1-0	8260D	T					5 uL	
410-159022-A-7	HD-COD-SW-16-0/1-0	8260D	T					5 uL	
410-159022-A-9	HD-COD-SW-26-0/1-0	8260D	T					5 uL	
410-159022-A-10	HD-COD-SW-27-0/1-0	8260D	T					5 uL	
410-159022-A-11	HD-COD-SW-28-0/1-0	8260D	T					5 uL	
410-159022-A-12	HD-COD-SW-29-0/1-0	8260D	T					5 uL	
410-159022-A-8	HD-COD-SW-17-0/1-0	8260D	T					5 uL	
410-159022-B-8	HD-COD-SW-17-0/1-0	8260D	T					5 uL	
410-159022-A-13	HD-QC1-0/1-1	8260D	T					5 uL	
410-159022-B-13	HD-QC1-0/1-1	8260D	T					5 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 2 of 4

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-159022-1

SDG No.: _____

Batch Number: 470708 Batch Start Date: 02/06/24 19:32 Batch Analyst: Walmer, GavinBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_BFB 00016					
BFB 410-470708/1		8260D		1 uL					
CCVIS 410-470708/3		8260D							
LCS 410-470708/4		8260D							
MB 410-470708/6		8260D							
410-159022-A-14	HD-QC1-0/1-2	8260D	T						
410-159022-A-6	HD-COD-SW-15-0/1-0	8260D	T						
410-159022-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	T						
410-159022-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	T						
410-159022-A-1	HD-COD-SW-6-0/1-0	8260D	T						
410-159022-A-2	HD-COD-SW-7-0/1-0	8260D	T						
410-159022-A-3	HD-COD-SW-8-0/1-0	8260D	T						
410-159022-A-4	HD-COD-SW-9-0/1-0	8260D	T						
410-159022-A-5	HD-COD-SW-13-0/1-0	8260D	T						
410-159022-A-7	HD-COD-SW-16-0/1-0	8260D	T						
410-159022-A-9	HD-COD-SW-26-0/1-0	8260D	T						
410-159022-A-10	HD-COD-SW-27-0/1-0	8260D	T						
410-159022-A-11	HD-COD-SW-28-0/1-0	8260D	T						
410-159022-A-12	HD-COD-SW-29-0/1-0	8260D	T						
410-159022-A-8	HD-COD-SW-17-0/1-0	8260D	T						
410-159022-B-8	HD-COD-SW-17-0/1-0	8260D	T						
410-159022-A-13	HD-QC1-0/1-1	8260D	T						
410-159022-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.: 410-159022-1

SDG No.: _____

Batch Number: 470708 Batch Start Date: 02/06/24 19:32 Batch Analyst: Walmer, GavinBatch Method: 8260D Batch End Date: _____

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents



Client: Groundwater Sciences Corporation				Matrix				Analyses Requested												For Lab Use Only							
Project Name/#: FYNOP Monthly Surface Water				Site ID #: FYNOP, York PA				Preservation Codes												SF #: _____							
Project Manager: Chris O'Neil				P.O. #: 10012.52																SCR #: _____							
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		Grab	Composite	Soil ☐ Sediment ☐ Tissue ☐	Potable ☐ Ground ☐	Water ☐ Surface ☒	NPDES ☐	Other: _____	Total # of Containers	Aqueous VOCs via 8260D (low level - 25 ml purge)													Preservation Codes		
		Date	Time																						H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ P = H ₃ PO ₄ O = Other		
HD-COD-SW-6-0/1-0		1/29/24	1030	X				X			3	X														All Samples Preserved on ice	
HD-COD-SW-7-0/1-0			1110	X				X			3	X															
HD-COD-SW-8-0/1-0			0920	X				X			3	X															
HD-COD-SW-9-0/1-0			1224	X				X			3	X															
HD-COD-SW-13-0/1-0			0938	X				X			3	X															
HD-COD-SW-15-0/1-0			1133	X				X			3	X															
HD-COD-SW-15-0/1-0 MS			1133	X				X			3	X															
HD-COD-SW-15-0/1-0 MSD			1133	X				X			3	X															
HD-COD-SW-16-0/1-0			1000	X				X			3	X															
HD-COD-SW-17-0/1-0			1010	X				X			3	X															
Turnaround Time Requested (TAT) (please check): Standard ☒ Rush ☐ (Rush TAT is subject to laboratory approval and surcharges.)				Relinquished by:				Date: 1/29/24		Time: 1325		Received by:				Date: 1/29/24		Time: 1325									
Date results are needed: STANDARD				Relinquished by: Mech Serv Center				Date: 1/30/24		Time: 1055		Received by:				Date: 1/30/24		Time: 1055									
Rush results requested by (please check): E-Mail ☐ Phone ☐				Relinquished by:				Date: 1/30/24		Time: 1148		Received by:				Date: 1/30/24		Time: 1148									
E-mail Address: _____				Relinquished by: _____				Date: _____		Time: _____		Received by: _____				Date: _____		Time: _____									
Phone: ON-FILE				Relinquished by: _____				Date: _____		Time: _____		Received by: _____				Date: _____		Time: _____									
Data Package Options (please check if required)				Relinquished by: _____				Date: _____		Time: _____		Received by: _____				Date: _____		Time: _____									
Type I (Validation/non-CLP) ☐		MA MCP ☐		Relinquished by: _____				Date: _____		Time: _____		Received by: _____				Date: _____		Time: _____									
Type III (Reduced non-CLP) ☐		CT RCP ☐		Relinquished by: _____				Date: _____		Time: _____		Received by: _____				Date: _____		Time: _____									
Type VI (Raw Data Only) ☐		TX TRRP-13 ☐		Relinquished by: _____				Date: _____		Time: _____		Received by: _____				Date: _____		Time: _____									
NJ DKQP ☐		NYSDEC Category ☐ A or ☐ B		Relinquished by: _____				Date: _____		Time: _____		Received by: _____				Date: _____		Time: _____									
CLP Like Deliverables, Project Specific Analyte List				Relinquished by Commercial Carrier: _____				Date: _____		Time: _____		Received by: _____				Date: _____		Time: _____									
EDD Required? Yes ☒ No ☐ If yes, format: _____				UPS _____ FedEx _____ Other _____				Temperature upon receipt: 12:3.4C: 2.8 °C																			



370472
HARRISBURG PA
Lancaster Laboratories
Environmental

Environmental Analysis Request/Chain of Custody

pg. 2 of 2

Acct. # _____ Group # _____ Sample # _____

Client: Groundwater Sciences Corporation				Matrix			Analyses Requested										For Lab Use Only	
Project Name/#: FYNOP Monthly Surface Water		Site ID #: FYNOP, York PA		☐ Tissue			Preservation Codes										SF #: _____	
Project Manager: Chris O'Neil		P.O. #: 10012.52		☐ Ground													SCR #: _____	
Sampler: Casey Littlefield / Lucas Grimm		PWSID #: N/A		☐ Surface														
Phone #: (717) 901-8176 / (717) 756-1246		Quote #: _____		☐ NPDES														
State where samples were collected: York, PA		For Compliance: Yes ☐ No ☒		☐ Other: Trip Blank														
				☐ Potable														
				☐ Water														
				☐ Sediment														
				☐ Soil														
				☐ Composite														
				☐ Grab														
				☐ Trip Blank														
				☐ Total # of Containers														
				☐ Aqueous VOCs via 8260D (low level - 25 ml purge)														
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Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-159022-1

Login Number: 159022

List Number: 1

Creator: Arroyo, Haley

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	Not present.
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temp acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, 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	Not present.
VOA sample vials do not have headspace $> 6\text{mm}$ in diameter (none, if from WV)?	True	