

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

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**JOB DESCRIPTION**

fYNOP Monthly Surface Water

**JOB NUMBER**

410-140485-1

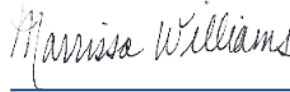
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## Job Notes

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

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

## Authorization



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# Definitions/Glossary

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

Job ID: 410-140485-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
^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**  
**410-140485-1**

**Receipt**

The samples were received on 8/25/2023 5:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

**GC/MS VOA**

Method 8260D\_LL: The continuing calibration verification (CCV) analyzed on 410-413930 is compliant under 8260C/D method criteria for 2-Hexanone . The software does not display the % Drift data to the whole number as is listed in the method (i.e. limit of 20%). When applying the evaluation to a whole number, the check passes the criteria with a value of 20% Drift.

Method 8260D\_LL: The method blank for 410-413930 contained Acetone above the method detection limit (MDL). Associated samples were not re-analyzed because results were less than the reporting limit (RL).

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: 410-140485-1

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

## Lab Sample ID: 410-140485-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.9	J cn	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.14	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.12	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

## Lab Sample ID: 410-140485-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.9	J cn	5.0	1.0	ug/L	1		8260D	Total/NA
Chloroform	0.097	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.20	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.19	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

## Lab Sample ID: 410-140485-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.9	J cn	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.21	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.67	J	0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.17	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

## Lab Sample ID: 410-140485-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.6	J cn	5.0	1.0	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.27	J	0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.13	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

## Lab Sample ID: 410-140485-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.3	J cn	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.21	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.92	J	0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.18	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

## Lab Sample ID: 410-140485-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.23	J	0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.12	J	0.50	0.10	ug/L	1		8260D	Total/NA
Acetone	2.2	J cn	5.0	1.0	ug/L	1		8260D	Total/NA
Chloroform	0.24	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.76	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	4.2	J	0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.97	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

## Lab Sample ID: 410-140485-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.0	J cn	5.0	1.0	ug/L	1		8260D	Total/NA
Chloromethane	0.12	J	0.50	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.21	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.1	J	0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.18	J	0.50	0.080	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

# Detection Summary

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

Job ID: 410-140485-1

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

Lab Sample ID: 410-140485-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	8.5		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	1.8		0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.71		0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.22	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.5		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	4.7		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	90		5.0	2.0	ug/L	10		8260D	Total/NA

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

Lab Sample ID: 410-140485-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.15	J	0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.58		0.50	0.090	ug/L	1		8260D	Total/NA
Chloromethane	0.24	J	0.50	0.10	ug/L	1		8260D	Total/NA
Tetrachloroethene	3.8		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.16	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-140485-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.0	J cn	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.12	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.26	J	0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.15	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-140485-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.4	J cn	5.0	1.0	ug/L	1		8260D	Total/NA
Chloromethane	0.11	J	0.50	0.10	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-29-0/1-0

Lab Sample ID: 410-140485-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.5	J cn	5.0	1.0	ug/L	1		8260D	Total/NA
Chloromethane	0.13	J	0.50	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.18	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.65		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.17	J	0.50	0.080	ug/L	1		8260D	Total/NA

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

Lab Sample ID: 410-140485-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	8.6		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	1.8		0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.68		0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.23	J	0.50	0.090	ug/L	1		8260D	Total/NA
Chloromethane	0.10	J	0.50	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.4		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	4.7		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	93		5.0	2.0	ug/L	10		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

# Detection Summary

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

Job ID: 410-140485-1

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

**Lab Sample ID: 410-140485-14**

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

This Detection Summary does not include radiochemical test results.



# Client Sample Results

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

Job ID: 410-140485-1

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

**Lab Sample ID: 410-140485-1**

Date Collected: 08/24/23 10:58

Matrix: Water

Date Received: 08/25/23 17:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/29/23 21:36	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/29/23 21:36	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/29/23 21:36	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/29/23 21:36	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/29/23 21:36	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/29/23 21:36	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/29/23 21:36	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/29/23 21:36	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/29/23 21:36	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/29/23 21:36	1
2-Hexanone	ND	^c cn	5.0	2.0	ug/L			08/29/23 21:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/29/23 21:36	1
<b>Acetone</b>	<b>1.9</b>	<b>J cn</b>	5.0	1.0	ug/L			08/29/23 21:36	1
Benzene	ND		0.50	0.10	ug/L			08/29/23 21:36	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/29/23 21:36	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/29/23 21:36	1
Bromoform	ND		1.0	0.30	ug/L			08/29/23 21:36	1
Bromomethane	ND		0.50	0.10	ug/L			08/29/23 21:36	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/29/23 21:36	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/29/23 21:36	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/29/23 21:36	1
Chloroethane	ND		0.50	0.10	ug/L			08/29/23 21:36	1
Chloroform	ND		0.50	0.090	ug/L			08/29/23 21:36	1
Chloromethane	ND		0.50	0.10	ug/L			08/29/23 21:36	1
<b>cis-1,2-Dichloroethene</b>	<b>0.14</b>	<b>J</b>	0.50	0.080	ug/L			08/29/23 21:36	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/29/23 21:36	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/29/23 21:36	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/29/23 21:36	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/29/23 21:36	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/29/23 21:36	1
Styrene	ND		0.50	0.070	ug/L			08/29/23 21:36	1
Tetrachloroethene	ND		0.50	0.20	ug/L			08/29/23 21:36	1
Toluene	ND		0.50	0.080	ug/L			08/29/23 21:36	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/29/23 21:36	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/29/23 21:36	1
<b>Trichloroethene</b>	<b>0.12</b>	<b>J</b>	0.50	0.080	ug/L			08/29/23 21:36	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/29/23 21:36	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/29/23 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		80 - 120		08/29/23 21:36	1
4-Bromofluorobenzene (Surr)	93		80 - 120		08/29/23 21:36	1
Dibromofluoromethane (Surr)	109		80 - 120		08/29/23 21:36	1
Toluene-d8 (Surr)	100		80 - 120		08/29/23 21:36	1

# Client Sample Results

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

Job ID: 410-140485-1

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

**Lab Sample ID: 410-140485-2**

Date Collected: 08/24/23 11:40

Matrix: Water

Date Received: 08/25/23 17:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/29/23 21:57	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/29/23 21:57	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/29/23 21:57	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/29/23 21:57	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/29/23 21:57	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/29/23 21:57	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/29/23 21:57	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/29/23 21:57	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/29/23 21:57	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/29/23 21:57	1
2-Hexanone	ND	^c cn	5.0	2.0	ug/L			08/29/23 21:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/29/23 21:57	1
<b>Acetone</b>	<b>1.9</b>	<b>J cn</b>	5.0	1.0	ug/L			08/29/23 21:57	1
Benzene	ND		0.50	0.10	ug/L			08/29/23 21:57	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/29/23 21:57	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/29/23 21:57	1
Bromoform	ND		1.0	0.30	ug/L			08/29/23 21:57	1
Bromomethane	ND		0.50	0.10	ug/L			08/29/23 21:57	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/29/23 21:57	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/29/23 21:57	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/29/23 21:57	1
Chloroethane	ND		0.50	0.10	ug/L			08/29/23 21:57	1
<b>Chloroform</b>	<b>0.097</b>	<b>J</b>	0.50	0.090	ug/L			08/29/23 21:57	1
Chloromethane	ND		0.50	0.10	ug/L			08/29/23 21:57	1
<b>cis-1,2-Dichloroethene</b>	<b>0.20</b>	<b>J</b>	0.50	0.080	ug/L			08/29/23 21:57	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/29/23 21:57	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/29/23 21:57	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/29/23 21:57	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/29/23 21:57	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/29/23 21:57	1
Styrene	ND		0.50	0.070	ug/L			08/29/23 21:57	1
Tetrachloroethene	ND		0.50	0.20	ug/L			08/29/23 21:57	1
Toluene	ND		0.50	0.080	ug/L			08/29/23 21:57	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/29/23 21:57	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/29/23 21:57	1
<b>Trichloroethene</b>	<b>0.19</b>	<b>J</b>	0.50	0.080	ug/L			08/29/23 21:57	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/29/23 21:57	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/29/23 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		80 - 120		08/29/23 21:57	1
4-Bromofluorobenzene (Surr)	93		80 - 120		08/29/23 21:57	1
Dibromofluoromethane (Surr)	109		80 - 120		08/29/23 21:57	1
Toluene-d8 (Surr)	100		80 - 120		08/29/23 21:57	1

# Client Sample Results

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

Job ID: 410-140485-1

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

**Lab Sample ID: 410-140485-3**

Date Collected: 08/24/23 09:07

Matrix: Water

Date Received: 08/25/23 17:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/29/23 22:18	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/29/23 22:18	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/29/23 22:18	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/29/23 22:18	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/29/23 22:18	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/29/23 22:18	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/29/23 22:18	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/29/23 22:18	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/29/23 22:18	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/29/23 22:18	1
2-Hexanone	ND	^c cn	5.0	2.0	ug/L			08/29/23 22:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/29/23 22:18	1
<b>Acetone</b>	<b>4.9</b>	<b>J cn</b>	5.0	1.0	ug/L			08/29/23 22:18	1
Benzene	ND		0.50	0.10	ug/L			08/29/23 22:18	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/29/23 22:18	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/29/23 22:18	1
Bromoform	ND		1.0	0.30	ug/L			08/29/23 22:18	1
Bromomethane	ND		0.50	0.10	ug/L			08/29/23 22:18	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/29/23 22:18	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/29/23 22:18	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/29/23 22:18	1
Chloroethane	ND		0.50	0.10	ug/L			08/29/23 22:18	1
Chloroform	ND		0.50	0.090	ug/L			08/29/23 22:18	1
Chloromethane	ND		0.50	0.10	ug/L			08/29/23 22:18	1
<b>cis-1,2-Dichloroethene</b>	<b>0.21</b>	<b>J</b>	0.50	0.080	ug/L			08/29/23 22:18	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/29/23 22:18	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/29/23 22:18	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/29/23 22:18	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/29/23 22:18	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/29/23 22:18	1
Styrene	ND		0.50	0.070	ug/L			08/29/23 22:18	1
<b>Tetrachloroethene</b>	<b>0.67</b>		0.50	0.20	ug/L			08/29/23 22:18	1
Toluene	ND		0.50	0.080	ug/L			08/29/23 22:18	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/29/23 22:18	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/29/23 22:18	1
<b>Trichloroethene</b>	<b>0.17</b>	<b>J</b>	0.50	0.080	ug/L			08/29/23 22:18	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/29/23 22:18	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/29/23 22:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		08/29/23 22:18	1
4-Bromofluorobenzene (Surr)	93		80 - 120		08/29/23 22:18	1
Dibromofluoromethane (Surr)	108		80 - 120		08/29/23 22:18	1
Toluene-d8 (Surr)	101		80 - 120		08/29/23 22:18	1

# Client Sample Results

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

Job ID: 410-140485-1

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

**Lab Sample ID: 410-140485-4**

Date Collected: 08/24/23 13:00

Matrix: Water

Date Received: 08/25/23 17:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/29/23 22:39	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/29/23 22:39	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/29/23 22:39	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/29/23 22:39	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/29/23 22:39	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/29/23 22:39	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/29/23 22:39	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/29/23 22:39	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/29/23 22:39	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/29/23 22:39	1
2-Hexanone	ND	^c cn	5.0	2.0	ug/L			08/29/23 22:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/29/23 22:39	1
<b>Acetone</b>	<b>3.6</b>	<b>J cn</b>	5.0	1.0	ug/L			08/29/23 22:39	1
Benzene	ND		0.50	0.10	ug/L			08/29/23 22:39	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/29/23 22:39	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/29/23 22:39	1
Bromoform	ND		1.0	0.30	ug/L			08/29/23 22:39	1
Bromomethane	ND		0.50	0.10	ug/L			08/29/23 22:39	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/29/23 22:39	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/29/23 22:39	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/29/23 22:39	1
Chloroethane	ND		0.50	0.10	ug/L			08/29/23 22:39	1
Chloroform	ND		0.50	0.090	ug/L			08/29/23 22:39	1
Chloromethane	ND		0.50	0.10	ug/L			08/29/23 22:39	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			08/29/23 22:39	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/29/23 22:39	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/29/23 22:39	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/29/23 22:39	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/29/23 22:39	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/29/23 22:39	1
Styrene	ND		0.50	0.070	ug/L			08/29/23 22:39	1
<b>Tetrachloroethene</b>	<b>0.27</b>	<b>J</b>	0.50	0.20	ug/L			08/29/23 22:39	1
Toluene	ND		0.50	0.080	ug/L			08/29/23 22:39	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/29/23 22:39	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/29/23 22:39	1
<b>Trichloroethene</b>	<b>0.13</b>	<b>J</b>	0.50	0.080	ug/L			08/29/23 22:39	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/29/23 22:39	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/29/23 22:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		80 - 120					08/29/23 22:39	1
4-Bromofluorobenzene (Surr)	93		80 - 120					08/29/23 22:39	1
Dibromofluoromethane (Surr)	109		80 - 120					08/29/23 22:39	1
Toluene-d8 (Surr)	99		80 - 120					08/29/23 22:39	1

# Client Sample Results

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

Job ID: 410-140485-1

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

**Lab Sample ID: 410-140485-5**

Date Collected: 08/24/23 09:35

Matrix: Water

Date Received: 08/25/23 17:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/29/23 23:00	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/29/23 23:00	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/29/23 23:00	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/29/23 23:00	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/29/23 23:00	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/29/23 23:00	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/29/23 23:00	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/29/23 23:00	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/29/23 23:00	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/29/23 23:00	1
2-Hexanone	ND	^c cn	5.0	2.0	ug/L			08/29/23 23:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/29/23 23:00	1
<b>Acetone</b>	<b>2.3</b>	<b>J cn</b>	5.0	1.0	ug/L			08/29/23 23:00	1
Benzene	ND		0.50	0.10	ug/L			08/29/23 23:00	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/29/23 23:00	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/29/23 23:00	1
Bromoform	ND		1.0	0.30	ug/L			08/29/23 23:00	1
Bromomethane	ND		0.50	0.10	ug/L			08/29/23 23:00	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/29/23 23:00	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/29/23 23:00	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/29/23 23:00	1
Chloroethane	ND		0.50	0.10	ug/L			08/29/23 23:00	1
Chloroform	ND		0.50	0.090	ug/L			08/29/23 23:00	1
Chloromethane	ND		0.50	0.10	ug/L			08/29/23 23:00	1
<b>cis-1,2-Dichloroethene</b>	<b>0.21</b>	<b>J</b>	0.50	0.080	ug/L			08/29/23 23:00	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/29/23 23:00	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/29/23 23:00	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/29/23 23:00	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/29/23 23:00	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/29/23 23:00	1
Styrene	ND		0.50	0.070	ug/L			08/29/23 23:00	1
<b>Tetrachloroethene</b>	<b>0.92</b>		0.50	0.20	ug/L			08/29/23 23:00	1
Toluene	ND		0.50	0.080	ug/L			08/29/23 23:00	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/29/23 23:00	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/29/23 23:00	1
<b>Trichloroethene</b>	<b>0.18</b>	<b>J</b>	0.50	0.080	ug/L			08/29/23 23:00	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/29/23 23:00	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/29/23 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		08/29/23 23:00	1
4-Bromofluorobenzene (Surr)	91		80 - 120		08/29/23 23:00	1
Dibromofluoromethane (Surr)	110		80 - 120		08/29/23 23:00	1
Toluene-d8 (Surr)	99		80 - 120		08/29/23 23:00	1

# Client Sample Results

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

Job ID: 410-140485-1

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

**Lab Sample ID: 410-140485-6**

Date Collected: 08/24/23 12:02

Matrix: Water

Date Received: 08/25/23 17:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/29/23 20:12	1
<b>1,1,1-Trichloroethane</b>	<b>0.23</b>	<b>J</b>	0.50	0.080	ug/L			08/29/23 20:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/29/23 20:12	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/29/23 20:12	1
1,1-Dichloroethane	ND	FH	0.50	0.10	ug/L			08/29/23 20:12	1
<b>1,1-Dichloroethene</b>	<b>0.12</b>	<b>J</b>	0.50	0.10	ug/L			08/29/23 20:12	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/29/23 20:12	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/29/23 20:12	1
1,2-Dichloropropane	ND	FH	0.50	0.10	ug/L			08/29/23 20:12	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/29/23 20:12	1
2-Hexanone	ND	^c cn	5.0	2.0	ug/L			08/29/23 20:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/29/23 20:12	1
<b>Acetone</b>	<b>2.2</b>	<b>J cn</b>	5.0	1.0	ug/L			08/29/23 20:12	1
Benzene	ND		0.50	0.10	ug/L			08/29/23 20:12	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/29/23 20:12	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/29/23 20:12	1
Bromoform	ND		1.0	0.30	ug/L			08/29/23 20:12	1
Bromomethane	ND		0.50	0.10	ug/L			08/29/23 20:12	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/29/23 20:12	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/29/23 20:12	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/29/23 20:12	1
Chloroethane	ND		0.50	0.10	ug/L			08/29/23 20:12	1
<b>Chloroform</b>	<b>0.24</b>	<b>J</b>	0.50	0.090	ug/L			08/29/23 20:12	1
Chloromethane	ND		0.50	0.10	ug/L			08/29/23 20:12	1
<b>cis-1,2-Dichloroethene</b>	<b>0.76</b>		0.50	0.080	ug/L			08/29/23 20:12	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/29/23 20:12	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/29/23 20:12	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/29/23 20:12	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/29/23 20:12	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/29/23 20:12	1
Styrene	ND		0.50	0.070	ug/L			08/29/23 20:12	1
<b>Tetrachloroethene</b>	<b>4.2</b>		0.50	0.20	ug/L			08/29/23 20:12	1
Toluene	ND		0.50	0.080	ug/L			08/29/23 20:12	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/29/23 20:12	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/29/23 20:12	1
<b>Trichloroethene</b>	<b>0.97</b>		0.50	0.080	ug/L			08/29/23 20:12	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/29/23 20:12	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/29/23 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		80 - 120		08/29/23 20:12	1
4-Bromofluorobenzene (Surr)	91		80 - 120		08/29/23 20:12	1
Dibromofluoromethane (Surr)	108		80 - 120		08/29/23 20:12	1
Toluene-d8 (Surr)	97		80 - 120		08/29/23 20:12	1

# Client Sample Results

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

Job ID: 410-140485-1

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

**Lab Sample ID: 410-140485-7**

Date Collected: 08/24/23 10:05

Matrix: Water

Date Received: 08/25/23 17:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/29/23 23:21	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/29/23 23:21	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/29/23 23:21	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/29/23 23:21	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/29/23 23:21	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/29/23 23:21	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/29/23 23:21	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/29/23 23:21	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/29/23 23:21	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/29/23 23:21	1
2-Hexanone	ND	^c cn	5.0	2.0	ug/L			08/29/23 23:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/29/23 23:21	1
<b>Acetone</b>	<b>2.0</b>	<b>J cn</b>	5.0	1.0	ug/L			08/29/23 23:21	1
Benzene	ND		0.50	0.10	ug/L			08/29/23 23:21	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/29/23 23:21	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/29/23 23:21	1
Bromoform	ND		1.0	0.30	ug/L			08/29/23 23:21	1
Bromomethane	ND		0.50	0.10	ug/L			08/29/23 23:21	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/29/23 23:21	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/29/23 23:21	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/29/23 23:21	1
Chloroethane	ND		0.50	0.10	ug/L			08/29/23 23:21	1
Chloroform	ND		0.50	0.090	ug/L			08/29/23 23:21	1
<b>Chloromethane</b>	<b>0.12</b>	<b>J</b>	0.50	0.10	ug/L			08/29/23 23:21	1
<b>cis-1,2-Dichloroethene</b>	<b>0.21</b>	<b>J</b>	0.50	0.080	ug/L			08/29/23 23:21	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/29/23 23:21	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/29/23 23:21	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/29/23 23:21	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/29/23 23:21	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/29/23 23:21	1
Styrene	ND		0.50	0.070	ug/L			08/29/23 23:21	1
<b>Tetrachloroethene</b>	<b>1.1</b>		0.50	0.20	ug/L			08/29/23 23:21	1
Toluene	ND		0.50	0.080	ug/L			08/29/23 23:21	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/29/23 23:21	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/29/23 23:21	1
<b>Trichloroethene</b>	<b>0.18</b>	<b>J</b>	0.50	0.080	ug/L			08/29/23 23:21	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/29/23 23:21	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/29/23 23:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		80 - 120		08/29/23 23:21	1
4-Bromofluorobenzene (Surr)	93		80 - 120		08/29/23 23:21	1
Dibromofluoromethane (Surr)	112		80 - 120		08/29/23 23:21	1
Toluene-d8 (Surr)	101		80 - 120		08/29/23 23:21	1

# Client Sample Results

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

Job ID: 410-140485-1

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

**Lab Sample ID: 410-140485-8**

Date Collected: 08/24/23 10:16

Matrix: Water

Date Received: 08/25/23 17:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/30/23 02:51	1
<b>1,1,1-Trichloroethane</b>	<b>8.5</b>		0.50	0.080	ug/L			08/30/23 02:51	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/30/23 02:51	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/30/23 02:51	1
<b>1,1-Dichloroethane</b>	<b>1.8</b>		0.50	0.10	ug/L			08/30/23 02:51	1
<b>1,1-Dichloroethene</b>	<b>0.71</b>		0.50	0.10	ug/L			08/30/23 02:51	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/30/23 02:51	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/30/23 02:51	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/30/23 02:51	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/30/23 02:51	1
2-Hexanone	ND	^c cn	5.0	2.0	ug/L			08/30/23 02:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/30/23 02:51	1
Acetone	ND		5.0	1.0	ug/L			08/30/23 02:51	1
Benzene	ND		0.50	0.10	ug/L			08/30/23 02:51	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/30/23 02:51	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/30/23 02:51	1
Bromoform	ND		1.0	0.30	ug/L			08/30/23 02:51	1
Bromomethane	ND		0.50	0.10	ug/L			08/30/23 02:51	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/30/23 02:51	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/30/23 02:51	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/30/23 02:51	1
Chloroethane	ND		0.50	0.10	ug/L			08/30/23 02:51	1
<b>Chloroform</b>	<b>0.22</b>	<b>J</b>	0.50	0.090	ug/L			08/30/23 02:51	1
Chloromethane	ND		0.50	0.10	ug/L			08/30/23 02:51	1
<b>cis-1,2-Dichloroethene</b>	<b>2.5</b>		0.50	0.080	ug/L			08/30/23 02:51	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/30/23 02:51	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/30/23 02:51	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/30/23 02:51	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/30/23 02:51	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/30/23 02:51	1
Styrene	ND		0.50	0.070	ug/L			08/30/23 02:51	1
Toluene	ND		0.50	0.080	ug/L			08/30/23 02:51	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/30/23 02:51	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/30/23 02:51	1
<b>Trichloroethene</b>	<b>4.7</b>		0.50	0.080	ug/L			08/30/23 02:51	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/30/23 02:51	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/30/23 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		80 - 120		08/30/23 02:51	1
4-Bromofluorobenzene (Surr)	91		80 - 120		08/30/23 02:51	1
Dibromofluoromethane (Surr)	110		80 - 120		08/30/23 02:51	1
Toluene-d8 (Surr)	96		80 - 120		08/30/23 02:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Tetrachloroethene</b>	<b>90</b>		5.0	2.0	ug/L			08/30/23 03:12	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		80 - 120		08/30/23 03:12	10



# Client Sample Results

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

Job ID: 410-140485-1

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

**Lab Sample ID: 410-140485-8**

Date Collected: 08/24/23 10:16

Matrix: Water

Date Received: 08/25/23 17:14

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		80 - 120		08/30/23 03:12	10
Dibromofluoromethane (Surr)	109		80 - 120		08/30/23 03:12	10
Toluene-d8 (Surr)	98		80 - 120		08/30/23 03:12	10

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

**Lab Sample ID: 410-140485-9**

Date Collected: 08/24/23 11:23

Matrix: Water

Date Received: 08/25/23 17:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/29/23 23:42	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/29/23 23:42	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/29/23 23:42	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/29/23 23:42	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/29/23 23:42	1
<b>1,1-Dichloroethene</b>	<b>0.15</b>	<b>J</b>	0.50	0.10	ug/L			08/29/23 23:42	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/29/23 23:42	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/29/23 23:42	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/29/23 23:42	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/29/23 23:42	1
2-Hexanone	ND	^c cn	5.0	2.0	ug/L			08/29/23 23:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/29/23 23:42	1
Acetone	ND		5.0	1.0	ug/L			08/29/23 23:42	1
Benzene	ND		0.50	0.10	ug/L			08/29/23 23:42	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/29/23 23:42	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/29/23 23:42	1
Bromoform	ND		1.0	0.30	ug/L			08/29/23 23:42	1
Bromomethane	ND		0.50	0.10	ug/L			08/29/23 23:42	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/29/23 23:42	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/29/23 23:42	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/29/23 23:42	1
Chloroethane	ND		0.50	0.10	ug/L			08/29/23 23:42	1
<b>Chloroform</b>	<b>0.58</b>		0.50	0.090	ug/L			08/29/23 23:42	1
<b>Chloromethane</b>	<b>0.24</b>	<b>J</b>	0.50	0.10	ug/L			08/29/23 23:42	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			08/29/23 23:42	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/29/23 23:42	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/29/23 23:42	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/29/23 23:42	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/29/23 23:42	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/29/23 23:42	1
Styrene	ND		0.50	0.070	ug/L			08/29/23 23:42	1
<b>Tetrachloroethene</b>	<b>3.8</b>		0.50	0.20	ug/L			08/29/23 23:42	1
Toluene	ND		0.50	0.080	ug/L			08/29/23 23:42	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/29/23 23:42	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/29/23 23:42	1
<b>Trichloroethene</b>	<b>0.16</b>	<b>J</b>	0.50	0.080	ug/L			08/29/23 23:42	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/29/23 23:42	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/29/23 23:42	1

# Client Sample Results

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

Job ID: 410-140485-1

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

**Lab Sample ID: 410-140485-9**

Date Collected: 08/24/23 11:23

Matrix: Water

Date Received: 08/25/23 17:14

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		80 - 120		08/29/23 23:42	1
4-Bromofluorobenzene (Surr)	92		80 - 120		08/29/23 23:42	1
Dibromofluoromethane (Surr)	109		80 - 120		08/29/23 23:42	1
Toluene-d8 (Surr)	97		80 - 120		08/29/23 23:42	1

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

**Lab Sample ID: 410-140485-10**

Date Collected: 08/24/23 11:53

Matrix: Water

Date Received: 08/25/23 17:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/30/23 00:03	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/30/23 00:03	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/30/23 00:03	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/30/23 00:03	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/30/23 00:03	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/30/23 00:03	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/30/23 00:03	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/30/23 00:03	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/30/23 00:03	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/30/23 00:03	1
2-Hexanone	ND	^c cn	5.0	2.0	ug/L			08/30/23 00:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/30/23 00:03	1
<b>Acetone</b>	<b>3.0</b>	<b>J cn</b>	5.0	1.0	ug/L			08/30/23 00:03	1
Benzene	ND		0.50	0.10	ug/L			08/30/23 00:03	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/30/23 00:03	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/30/23 00:03	1
Bromoform	ND		1.0	0.30	ug/L			08/30/23 00:03	1
Bromomethane	ND		0.50	0.10	ug/L			08/30/23 00:03	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/30/23 00:03	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/30/23 00:03	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/30/23 00:03	1
Chloroethane	ND		0.50	0.10	ug/L			08/30/23 00:03	1
Chloroform	ND		0.50	0.090	ug/L			08/30/23 00:03	1
Chloromethane	ND		0.50	0.10	ug/L			08/30/23 00:03	1
<b>cis-1,2-Dichloroethene</b>	<b>0.12</b>	<b>J</b>	0.50	0.080	ug/L			08/30/23 00:03	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/30/23 00:03	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/30/23 00:03	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/30/23 00:03	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/30/23 00:03	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/30/23 00:03	1
Styrene	ND		0.50	0.070	ug/L			08/30/23 00:03	1
<b>Tetrachloroethene</b>	<b>0.26</b>	<b>J</b>	0.50	0.20	ug/L			08/30/23 00:03	1
Toluene	ND		0.50	0.080	ug/L			08/30/23 00:03	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/30/23 00:03	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/30/23 00:03	1
<b>Trichloroethene</b>	<b>0.15</b>	<b>J</b>	0.50	0.080	ug/L			08/30/23 00:03	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/30/23 00:03	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/30/23 00:03	1

# Client Sample Results

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

Job ID: 410-140485-1

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

**Lab Sample ID: 410-140485-10**

Date Collected: 08/24/23 11:53

Matrix: Water

Date Received: 08/25/23 17:14

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		80 - 120		08/30/23 00:03	1
4-Bromofluorobenzene (Surr)	91		80 - 120		08/30/23 00:03	1
Dibromofluoromethane (Surr)	109		80 - 120		08/30/23 00:03	1
Toluene-d8 (Surr)	99		80 - 120		08/30/23 00:03	1

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

**Lab Sample ID: 410-140485-11**

Date Collected: 08/24/23 13:20

Matrix: Water

Date Received: 08/25/23 17:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/30/23 00:25	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/30/23 00:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/30/23 00:25	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/30/23 00:25	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/30/23 00:25	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/30/23 00:25	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/30/23 00:25	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/30/23 00:25	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/30/23 00:25	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/30/23 00:25	1
2-Hexanone	ND	^c cn	5.0	2.0	ug/L			08/30/23 00:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/30/23 00:25	1
<b>Acetone</b>	<b>3.4</b>	<b>J cn</b>	5.0	1.0	ug/L			08/30/23 00:25	1
Benzene	ND		0.50	0.10	ug/L			08/30/23 00:25	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/30/23 00:25	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/30/23 00:25	1
Bromoform	ND		1.0	0.30	ug/L			08/30/23 00:25	1
Bromomethane	ND		0.50	0.10	ug/L			08/30/23 00:25	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/30/23 00:25	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/30/23 00:25	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/30/23 00:25	1
Chloroethane	ND		0.50	0.10	ug/L			08/30/23 00:25	1
Chloroform	ND		0.50	0.090	ug/L			08/30/23 00:25	1
<b>Chloromethane</b>	<b>0.11</b>	<b>J</b>	0.50	0.10	ug/L			08/30/23 00:25	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			08/30/23 00:25	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/30/23 00:25	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/30/23 00:25	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/30/23 00:25	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/30/23 00:25	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/30/23 00:25	1
Styrene	ND		0.50	0.070	ug/L			08/30/23 00:25	1
<b>Tetrachloroethene</b>	<b>0.24</b>	<b>J</b>	0.50	0.20	ug/L			08/30/23 00:25	1
Toluene	ND		0.50	0.080	ug/L			08/30/23 00:25	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/30/23 00:25	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/30/23 00:25	1
Trichloroethene	ND		0.50	0.080	ug/L			08/30/23 00:25	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/30/23 00:25	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/30/23 00:25	1

# Client Sample Results

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

Job ID: 410-140485-1

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

**Lab Sample ID: 410-140485-11**

Date Collected: 08/24/23 13:20

Matrix: Water

Date Received: 08/25/23 17:14

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		80 - 120		08/30/23 00:25	1
4-Bromofluorobenzene (Surr)	91		80 - 120		08/30/23 00:25	1
Dibromofluoromethane (Surr)	111		80 - 120		08/30/23 00:25	1
Toluene-d8 (Surr)	99		80 - 120		08/30/23 00:25	1

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

**Lab Sample ID: 410-140485-12**

Date Collected: 08/24/23 08:50

Matrix: Water

Date Received: 08/25/23 17:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/30/23 00:46	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/30/23 00:46	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/30/23 00:46	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/30/23 00:46	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/30/23 00:46	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/30/23 00:46	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/30/23 00:46	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/30/23 00:46	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/30/23 00:46	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/30/23 00:46	1
2-Hexanone	ND	^c cn	5.0	2.0	ug/L			08/30/23 00:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/30/23 00:46	1
<b>Acetone</b>	<b>2.5</b>	<b>J cn</b>	5.0	1.0	ug/L			08/30/23 00:46	1
Benzene	ND		0.50	0.10	ug/L			08/30/23 00:46	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/30/23 00:46	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/30/23 00:46	1
Bromoform	ND		1.0	0.30	ug/L			08/30/23 00:46	1
Bromomethane	ND		0.50	0.10	ug/L			08/30/23 00:46	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/30/23 00:46	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/30/23 00:46	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/30/23 00:46	1
Chloroethane	ND		0.50	0.10	ug/L			08/30/23 00:46	1
Chloroform	ND		0.50	0.090	ug/L			08/30/23 00:46	1
<b>Chloromethane</b>	<b>0.13</b>	<b>J</b>	0.50	0.10	ug/L			08/30/23 00:46	1
<b>cis-1,2-Dichloroethene</b>	<b>0.18</b>	<b>J</b>	0.50	0.080	ug/L			08/30/23 00:46	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/30/23 00:46	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/30/23 00:46	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/30/23 00:46	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/30/23 00:46	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/30/23 00:46	1
Styrene	ND		0.50	0.070	ug/L			08/30/23 00:46	1
<b>Tetrachloroethene</b>	<b>0.65</b>		0.50	0.20	ug/L			08/30/23 00:46	1
Toluene	ND		0.50	0.080	ug/L			08/30/23 00:46	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/30/23 00:46	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/30/23 00:46	1
<b>Trichloroethene</b>	<b>0.17</b>	<b>J</b>	0.50	0.080	ug/L			08/30/23 00:46	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/30/23 00:46	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/30/23 00:46	1

# Client Sample Results

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

Job ID: 410-140485-1

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

**Lab Sample ID: 410-140485-12**

Date Collected: 08/24/23 08:50

Matrix: Water

Date Received: 08/25/23 17:14

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		80 - 120		08/30/23 00:46	1
4-Bromofluorobenzene (Surr)	92		80 - 120		08/30/23 00:46	1
Dibromofluoromethane (Surr)	111		80 - 120		08/30/23 00:46	1
Toluene-d8 (Surr)	100		80 - 120		08/30/23 00:46	1

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

**Lab Sample ID: 410-140485-13**

Date Collected: 08/24/23 12:00

Matrix: Water

Date Received: 08/25/23 17:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/30/23 03:33	1
<b>1,1,1-Trichloroethane</b>	<b>8.6</b>		0.50	0.080	ug/L			08/30/23 03:33	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/30/23 03:33	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/30/23 03:33	1
<b>1,1-Dichloroethane</b>	<b>1.8</b>		0.50	0.10	ug/L			08/30/23 03:33	1
<b>1,1-Dichloroethene</b>	<b>0.68</b>		0.50	0.10	ug/L			08/30/23 03:33	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/30/23 03:33	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/30/23 03:33	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/30/23 03:33	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/30/23 03:33	1
2-Hexanone	ND	^c cn	5.0	2.0	ug/L			08/30/23 03:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/30/23 03:33	1
Acetone	ND		5.0	1.0	ug/L			08/30/23 03:33	1
Benzene	ND		0.50	0.10	ug/L			08/30/23 03:33	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/30/23 03:33	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/30/23 03:33	1
Bromoform	ND		1.0	0.30	ug/L			08/30/23 03:33	1
Bromomethane	ND		0.50	0.10	ug/L			08/30/23 03:33	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/30/23 03:33	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/30/23 03:33	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/30/23 03:33	1
Chloroethane	ND		0.50	0.10	ug/L			08/30/23 03:33	1
<b>Chloroform</b>	<b>0.23</b>	<b>J</b>	0.50	0.090	ug/L			08/30/23 03:33	1
<b>Chloromethane</b>	<b>0.10</b>	<b>J</b>	0.50	0.10	ug/L			08/30/23 03:33	1
<b>cis-1,2-Dichloroethene</b>	<b>2.4</b>		0.50	0.080	ug/L			08/30/23 03:33	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/30/23 03:33	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/30/23 03:33	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/30/23 03:33	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/30/23 03:33	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/30/23 03:33	1
Styrene	ND		0.50	0.070	ug/L			08/30/23 03:33	1
Toluene	ND		0.50	0.080	ug/L			08/30/23 03:33	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/30/23 03:33	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/30/23 03:33	1
<b>Trichloroethene</b>	<b>4.7</b>		0.50	0.080	ug/L			08/30/23 03:33	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/30/23 03:33	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/30/23 03:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		80 - 120		08/30/23 03:33	1

# Client Sample Results

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

Job ID: 410-140485-1

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

**Lab Sample ID: 410-140485-13**

Date Collected: 08/24/23 12:00

Matrix: Water

Date Received: 08/25/23 17:14

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		80 - 120		08/30/23 03:33	1
Dibromofluoromethane (Surr)	109		80 - 120		08/30/23 03:33	1
Toluene-d8 (Surr)	96		80 - 120		08/30/23 03:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	93		5.0	2.0	ug/L			08/30/23 03:54	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		08/30/23 03:54	10
4-Bromofluorobenzene (Surr)	91		80 - 120		08/30/23 03:54	10
Dibromofluoromethane (Surr)	111		80 - 120		08/30/23 03:54	10
Toluene-d8 (Surr)	99		80 - 120		08/30/23 03:54	10

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

**Lab Sample ID: 410-140485-14**

Date Collected: 08/24/23 00:00

Matrix: Water

Date Received: 08/25/23 17:14

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/29/23 19:51	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/29/23 19:51	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/29/23 19:51	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/29/23 19:51	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/29/23 19:51	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/29/23 19:51	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/29/23 19:51	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/29/23 19:51	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/29/23 19:51	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/29/23 19:51	1
2-Hexanone	ND	^c cn	5.0	2.0	ug/L			08/29/23 19:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/29/23 19:51	1
Acetone	2.6	J cn	5.0	1.0	ug/L			08/29/23 19:51	1
Benzene	ND		0.50	0.10	ug/L			08/29/23 19:51	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/29/23 19:51	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/29/23 19:51	1
Bromoform	ND		1.0	0.30	ug/L			08/29/23 19:51	1
Bromomethane	ND		0.50	0.10	ug/L			08/29/23 19:51	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/29/23 19:51	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/29/23 19:51	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/29/23 19:51	1
Chloroethane	ND		0.50	0.10	ug/L			08/29/23 19:51	1
Chloroform	ND		0.50	0.090	ug/L			08/29/23 19:51	1
Chloromethane	ND		0.50	0.10	ug/L			08/29/23 19:51	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			08/29/23 19:51	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/29/23 19:51	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/29/23 19:51	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/29/23 19:51	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/29/23 19:51	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/29/23 19:51	1

# Client Sample Results

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

Job ID: 410-140485-1

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

**Lab Sample ID: 410-140485-14**

**Date Collected: 08/24/23 00:00**

**Matrix: Water**

**Date Received: 08/25/23 17:14**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.50	0.070	ug/L			08/29/23 19:51	1
Tetrachloroethene	ND		0.50	0.20	ug/L			08/29/23 19:51	1
Toluene	ND		0.50	0.080	ug/L			08/29/23 19:51	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/29/23 19:51	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/29/23 19:51	1
Trichloroethene	ND		0.50	0.080	ug/L			08/29/23 19:51	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/29/23 19:51	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/29/23 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		08/29/23 19:51	1
4-Bromofluorobenzene (Surr)	94		80 - 120		08/29/23 19:51	1
Dibromofluoromethane (Surr)	108		80 - 120		08/29/23 19:51	1
Toluene-d8 (Surr)	99		80 - 120		08/29/23 19:51	1

## Default Detection Limits

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

Job ID: 410-140485-1

### 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: 410-140485-1

## 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)
410-140485-1	HD-COD-SW-6-0/1-0	110	93	109	100
410-140485-2	HD-COD-SW-7-0/1-0	109	93	109	100
410-140485-3	HD-COD-SW-8-0/1-0	107	93	108	101
410-140485-4	HD-COD-SW-9-0/1-0	108	93	109	99
410-140485-5	HD-COD-SW-13-0/1-0	107	91	110	99
410-140485-6	HD-COD-SW-15-0/1-0	109	91	108	97
410-140485-6 MS	HD-COD-SW-15-0/1-0 MS	110	100	101	103
410-140485-6 MSD	HD-COD-SW-15-0/1-0 MSD	105	101	101	103
410-140485-7	HD-COD-SW-16-0/1-0	112	93	112	101
410-140485-8	HD-COD-SW-17-0/1-0	110	91	110	96
410-140485-8 - DL	HD-COD-SW-17-0/1-0	108	90	109	98
410-140485-9	HD-COD-SW-26-0/1-0	110	92	109	97
410-140485-10	HD-COD-SW-27-0/1-0	111	91	109	99
410-140485-11	HD-COD-SW-28-0/1-0	112	91	111	99
410-140485-12	HD-COD-SW-29-0/1-0	111	92	111	100
410-140485-13	HD-QC1-0/1-1	109	91	109	96
410-140485-13 - DL	HD-QC1-0/1-1	107	91	111	99
410-140485-14	HD-QC1-0/1-2	107	94	108	99
LCS 410-413930/4	Lab Control Sample	105	100	102	102
MB 410-413930/6	Method Blank	106	94	105	98

### 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: 410-140485-1

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

Lab Sample ID: MB 410-413930/6  
 Matrix: Water  
 Analysis Batch: 413930

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			08/29/23 19:09	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			08/29/23 19:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			08/29/23 19:09	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			08/29/23 19:09	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			08/29/23 19:09	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			08/29/23 19:09	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			08/29/23 19:09	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			08/29/23 19:09	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			08/29/23 19:09	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			08/29/23 19:09	1
2-Hexanone	ND		5.0	2.0	ug/L			08/29/23 19:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			08/29/23 19:09	1
Acetone	1.05	J	5.0	1.0	ug/L			08/29/23 19:09	1
Benzene	ND		0.50	0.10	ug/L			08/29/23 19:09	1
Bromochloromethane	ND		0.50	0.080	ug/L			08/29/23 19:09	1
Bromodichloromethane	ND		0.50	0.080	ug/L			08/29/23 19:09	1
Bromoform	ND		1.0	0.30	ug/L			08/29/23 19:09	1
Bromomethane	ND		0.50	0.10	ug/L			08/29/23 19:09	1
Carbon disulfide	ND		1.0	0.10	ug/L			08/29/23 19:09	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			08/29/23 19:09	1
Chlorobenzene	ND		0.50	0.070	ug/L			08/29/23 19:09	1
Chloroethane	ND		0.50	0.10	ug/L			08/29/23 19:09	1
Chloroform	ND		0.50	0.090	ug/L			08/29/23 19:09	1
Chloromethane	ND		0.50	0.10	ug/L			08/29/23 19:09	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			08/29/23 19:09	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			08/29/23 19:09	1
Dibromochloromethane	ND		0.50	0.080	ug/L			08/29/23 19:09	1
Ethylbenzene	ND		0.50	0.080	ug/L			08/29/23 19:09	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			08/29/23 19:09	1
Methylene Chloride	ND		0.50	0.20	ug/L			08/29/23 19:09	1
Styrene	ND		0.50	0.070	ug/L			08/29/23 19:09	1
Tetrachloroethene	ND		0.50	0.20	ug/L			08/29/23 19:09	1
Toluene	ND		0.50	0.080	ug/L			08/29/23 19:09	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			08/29/23 19:09	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			08/29/23 19:09	1
Trichloroethene	ND		0.50	0.080	ug/L			08/29/23 19:09	1
Vinyl chloride	ND		0.50	0.10	ug/L			08/29/23 19:09	1
Xylenes, Total	ND		1.0	0.070	ug/L			08/29/23 19:09	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	106		80 - 120		08/29/23 19:09	1
4-Bromofluorobenzene (Surr)	94		80 - 120		08/29/23 19:09	1
Dibromofluoromethane (Surr)	105		80 - 120		08/29/23 19:09	1
Toluene-d8 (Surr)	98		80 - 120		08/29/23 19:09	1

# QC Sample Results

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

Job ID: 410-140485-1

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

**Lab Sample ID: LCS 410-413930/4**  
**Matrix: Water**  
**Analysis Batch: 413930**

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				
1,1,1,2-Tetrachloroethane	5.00	5.26		ug/L		105	71 - 134
1,1,1-Trichloroethane	5.00	5.09		ug/L		102	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.43		ug/L		109	75 - 123
1,1,2-Trichloroethane	5.00	5.38		ug/L		108	80 - 120
1,1-Dichloroethane	5.00	5.25		ug/L		105	74 - 120
1,1-Dichloroethene	5.00	4.71		ug/L		94	80 - 131
1,2-Dibromoethane (EDB)	5.00	5.37		ug/L		107	80 - 120
1,2-Dichloroethane	5.00	5.81		ug/L		116	69 - 122
1,2-Dichloropropane	5.00	5.68		ug/L		114	80 - 120
2-Butanone (MEK)	62.5	70.9		ug/L		113	59 - 141
2-Hexanone	62.5	71.1		ug/L		114	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	71.4		ug/L		114	55 - 140
Acetone	62.5	70.1		ug/L		112	60 - 146
Benzene	5.00	5.31		ug/L		106	80 - 120
Bromochloromethane	5.00	5.21		ug/L		104	80 - 120
Bromodichloromethane	5.00	5.52		ug/L		110	73 - 124
Bromoform	5.00	5.19		ug/L		104	49 - 144
Bromomethane	5.00	4.43		ug/L		89	60 - 136
Carbon disulfide	5.00	5.09		ug/L		102	67 - 130
Carbon tetrachloride	5.00	5.19		ug/L		104	64 - 141
Chlorobenzene	5.00	5.01		ug/L		100	80 - 120
Chloroethane	5.00	4.83		ug/L		97	63 - 120
Chloroform	5.00	5.27		ug/L		105	80 - 120
Chloromethane	5.00	4.90		ug/L		98	56 - 124
cis-1,2-Dichloroethene	5.00	5.11		ug/L		102	80 - 122
cis-1,3-Dichloropropene	5.00	4.99		ug/L		100	67 - 121
Dibromochloromethane	5.00	5.31		ug/L		106	64 - 138
Ethylbenzene	5.00	4.94		ug/L		99	80 - 120
Methyl tert-butyl ether	5.00	4.78		ug/L		96	69 - 120
Methylene Chloride	5.00	5.26		ug/L		105	80 - 120
Styrene	5.00	4.95		ug/L		99	80 - 120
Tetrachloroethene	5.00	4.66		ug/L		93	80 - 120
Toluene	5.00	5.04		ug/L		101	80 - 120
trans-1,2-Dichloroethene	5.00	4.85		ug/L		97	80 - 122
trans-1,3-Dichloropropene	5.00	5.40		ug/L		108	61 - 129
Trichloroethene	5.00	4.90		ug/L		98	80 - 120
Vinyl chloride	5.00	4.55		ug/L		91	60 - 125
Xylenes, Total	15.0	14.5		ug/L		97	80 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	105		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	102		80 - 120

# QC Sample Results

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

Job ID: 410-140485-1

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

Lab Sample ID: 410-140485-6 MS

Matrix: Water

Analysis Batch: 413930

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

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier			Limits	
1,1,1,2-Tetrachloroethane	ND		5.00	5.71		ug/L		114	71 - 134
1,1,1-Trichloroethane	0.23	J	5.00	6.08		ug/L		117	78 - 126
1,1,2,2-Tetrachloroethane	ND		5.00	5.53		ug/L		110	75 - 123
1,1,2-Trichloroethane	ND		5.00	5.47		ug/L		109	80 - 120
1,1-Dichloroethane	ND	FH	5.00	6.08	FH	ug/L		121	74 - 120
1,1-Dichloroethene	0.12	J	5.00	5.78		ug/L		113	80 - 131
1,2-Dibromoethane (EDB)	ND		5.00	5.43		ug/L		109	80 - 120
1,2-Dichloroethane	ND		5.00	5.85		ug/L		117	69 - 122
1,2-Dichloropropane	ND	FH	5.00	6.23	FH	ug/L		124	80 - 120
2-Butanone (MEK)	ND		62.6	78.1		ug/L		125	59 - 141
2-Hexanone	ND	^c cn	62.6	79.4		ug/L		127	52 - 140
4-Methyl-2-pentanone (MIBK)	ND		62.6	79.0		ug/L		126	55 - 140
Acetone	2.2	J cn	62.6	73.6		ug/L		114	60 - 146
Benzene	ND		5.00	5.97		ug/L		119	80 - 120
Bromochloromethane	ND		5.00	5.44		ug/L		109	80 - 120
Bromodichloromethane	ND		5.00	5.89		ug/L		118	73 - 124
Bromoform	ND		5.00	5.21		ug/L		104	49 - 144
Bromomethane	ND		5.00	4.97		ug/L		99	60 - 136
Carbon disulfide	ND		5.00	6.05		ug/L		121	67 - 130
Carbon tetrachloride	ND		5.00	6.23		ug/L		125	64 - 141
Chlorobenzene	ND		5.00	5.57		ug/L		111	80 - 120
Chloroethane	ND		5.00	5.65		ug/L		113	63 - 120
Chloroform	0.24	J	5.00	6.08		ug/L		117	80 - 120
Chloromethane	ND		5.00	5.92		ug/L		118	80 - 120
cis-1,2-Dichloroethene	0.76		5.00	6.37		ug/L		112	80 - 122
cis-1,3-Dichloropropene	ND		5.00	5.22		ug/L		104	67 - 121
Dibromochloromethane	ND		5.00	5.61		ug/L		112	64 - 138
Ethylbenzene	ND		5.00	5.61		ug/L		112	80 - 120
Methyl tert-butyl ether	ND		5.00	4.92		ug/L		98	69 - 120
Methylene Chloride	ND		5.00	5.72		ug/L		114	80 - 120
Styrene	ND		5.00	5.41		ug/L		108	80 - 120
Tetrachloroethene	4.2		5.00	9.72		ug/L		110	80 - 120
Toluene	ND		5.00	5.63		ug/L		112	80 - 120
trans-1,2-Dichloroethene	ND		5.00	5.47		ug/L		109	80 - 122
trans-1,3-Dichloropropene	ND		5.00	5.59		ug/L		112	61 - 129
Trichloroethene	0.97		5.00	6.69		ug/L		114	80 - 120
Vinyl chloride	ND		5.00	5.73		ug/L		115	60 - 125
Xylenes, Total	ND		15.0	16.4		ug/L		109	80 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	103		80 - 120

# QC Sample Results

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

Job ID: 410-140485-1

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

Lab Sample ID: 410-140485-6 MSD

Matrix: Water

Analysis Batch: 413930

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

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,1,1,2-Tetrachloroethane	ND		5.00	5.45		ug/L		109	71 - 134	5	30
1,1,1-Trichloroethane	0.23	J	5.00	5.91		ug/L		113	78 - 126	3	30
1,1,2,2-Tetrachloroethane	ND		5.00	5.30		ug/L		106	75 - 123	4	30
1,1,2-Trichloroethane	ND		5.00	5.26		ug/L		105	80 - 120	4	30
1,1-Dichloroethane	ND	FH	5.00	5.85		ug/L		117	74 - 120	4	30
1,1-Dichloroethene	0.12	J	5.00	5.55		ug/L		109	80 - 131	4	30
1,2-Dibromoethane (EDB)	ND		5.00	5.40		ug/L		108	80 - 120	1	30
1,2-Dichloroethane	ND		5.00	5.70		ug/L		114	69 - 122	3	30
1,2-Dichloropropane	ND	FH	5.00	5.88		ug/L		118	80 - 120	6	30
2-Butanone (MEK)	ND		62.6	73.0		ug/L		117	59 - 141	7	30
2-Hexanone	ND	^c cn	62.6	74.0		ug/L		118	52 - 140	7	30
4-Methyl-2-pentanone (MIBK)	ND		62.6	73.5		ug/L		117	55 - 140	7	30
Acetone	2.2	J cn	62.6	71.1		ug/L		110	60 - 146	3	30
Benzene	ND		5.00	5.73		ug/L		114	80 - 120	4	30
Bromochloromethane	ND		5.00	5.27		ug/L		105	80 - 120	3	30
Bromodichloromethane	ND		5.00	5.69		ug/L		114	73 - 124	4	30
Bromoform	ND		5.00	4.99		ug/L		100	49 - 144	4	30
Bromomethane	ND		5.00	4.84		ug/L		97	60 - 136	3	30
Carbon disulfide	ND		5.00	5.75		ug/L		115	67 - 130	5	30
Carbon tetrachloride	ND		5.00	5.99		ug/L		120	64 - 141	4	30
Chlorobenzene	ND		5.00	5.34		ug/L		107	80 - 120	4	30
Chloroethane	ND		5.00	5.41		ug/L		108	63 - 120	4	30
Chloroform	0.24	J	5.00	5.81		ug/L		111	80 - 120	5	30
Chloromethane	ND		5.00	5.63		ug/L		113	80 - 120	5	30
cis-1,2-Dichloroethene	0.76		5.00	6.21		ug/L		109	80 - 122	3	30
cis-1,3-Dichloropropene	ND		5.00	5.12		ug/L		102	67 - 121	2	30
Dibromochloromethane	ND		5.00	5.33		ug/L		106	64 - 138	5	30
Ethylbenzene	ND		5.00	5.42		ug/L		108	80 - 120	3	30
Methyl tert-butyl ether	ND		5.00	4.74		ug/L		95	69 - 120	4	30
Methylene Chloride	ND		5.00	5.45		ug/L		109	80 - 120	5	30
Styrene	ND		5.00	5.19		ug/L		104	80 - 120	4	30
Tetrachloroethene	4.2		5.00	9.45		ug/L		105	80 - 120	3	30
Toluene	ND		5.00	5.49		ug/L		110	80 - 120	2	30
trans-1,2-Dichloroethene	ND		5.00	5.24		ug/L		105	80 - 122	4	30
trans-1,3-Dichloropropene	ND		5.00	5.50		ug/L		110	61 - 129	2	30
Trichloroethene	0.97		5.00	6.34		ug/L		107	80 - 120	5	30
Vinyl chloride	ND		5.00	5.53		ug/L		111	60 - 125	4	30
Xylenes, Total	ND		15.0	15.7		ug/L		105	80 - 120	4	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	103		80 - 120

# QC Association Summary

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

Job ID: 410-140485-1

## GC/MS VOA

### Analysis Batch: 413930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-140485-1	HD-COD-SW-6-0/1-0	Total/NA	Water	8260D	
410-140485-2	HD-COD-SW-7-0/1-0	Total/NA	Water	8260D	
410-140485-3	HD-COD-SW-8-0/1-0	Total/NA	Water	8260D	
410-140485-4	HD-COD-SW-9-0/1-0	Total/NA	Water	8260D	
410-140485-5	HD-COD-SW-13-0/1-0	Total/NA	Water	8260D	
410-140485-6	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	
410-140485-7	HD-COD-SW-16-0/1-0	Total/NA	Water	8260D	
410-140485-8	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-140485-8 - DL	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-140485-9	HD-COD-SW-26-0/1-0	Total/NA	Water	8260D	
410-140485-10	HD-COD-SW-27-0/1-0	Total/NA	Water	8260D	
410-140485-11	HD-COD-SW-28-0/1-0	Total/NA	Water	8260D	
410-140485-12	HD-COD-SW-29-0/1-0	Total/NA	Water	8260D	
410-140485-13	HD-QC1-0/1-1	Total/NA	Water	8260D	
410-140485-13 - DL	HD-QC1-0/1-1	Total/NA	Water	8260D	
410-140485-14	HD-QC1-0/1-2	Total/NA	Water	8260D	
MB 410-413930/6	Method Blank	Total/NA	Water	8260D	
LCS 410-413930/4	Lab Control Sample	Total/NA	Water	8260D	
410-140485-6 MS	HD-COD-SW-15-0/1-0 MS	Total/NA	Water	8260D	
410-140485-6 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: 410-140485-1

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

**Lab Sample ID: 410-140485-1**

Date Collected: 08/24/23 10:58

Matrix: Water

Date Received: 08/25/23 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	413930	JS6E	ELLE	08/29/23 21:36

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

**Lab Sample ID: 410-140485-2**

Date Collected: 08/24/23 11:40

Matrix: Water

Date Received: 08/25/23 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	413930	JS6E	ELLE	08/29/23 21:57

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

**Lab Sample ID: 410-140485-3**

Date Collected: 08/24/23 09:07

Matrix: Water

Date Received: 08/25/23 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	413930	JS6E	ELLE	08/29/23 22:18

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

**Lab Sample ID: 410-140485-4**

Date Collected: 08/24/23 13:00

Matrix: Water

Date Received: 08/25/23 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	413930	JS6E	ELLE	08/29/23 22:39

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

**Lab Sample ID: 410-140485-5**

Date Collected: 08/24/23 09:35

Matrix: Water

Date Received: 08/25/23 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	413930	JS6E	ELLE	08/29/23 23:00

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

**Lab Sample ID: 410-140485-6**

Date Collected: 08/24/23 12:02

Matrix: Water

Date Received: 08/25/23 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	413930	JS6E	ELLE	08/29/23 20:12

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

**Lab Sample ID: 410-140485-7**

Date Collected: 08/24/23 10:05

Matrix: Water

Date Received: 08/25/23 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	413930	JS6E	ELLE	08/29/23 23:21

# Lab Chronicle

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

Job ID: 410-140485-1

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

**Lab Sample ID: 410-140485-8**

Date Collected: 08/24/23 10:16

Matrix: Water

Date Received: 08/25/23 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	413930	JS6E	ELLE	08/30/23 02:51
Total/NA	Analysis	8260D	DL	10	413930	JS6E	ELLE	08/30/23 03:12

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

**Lab Sample ID: 410-140485-9**

Date Collected: 08/24/23 11:23

Matrix: Water

Date Received: 08/25/23 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	413930	JS6E	ELLE	08/29/23 23:42

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

**Lab Sample ID: 410-140485-10**

Date Collected: 08/24/23 11:53

Matrix: Water

Date Received: 08/25/23 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	413930	JS6E	ELLE	08/30/23 00:03

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

**Lab Sample ID: 410-140485-11**

Date Collected: 08/24/23 13:20

Matrix: Water

Date Received: 08/25/23 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	413930	JS6E	ELLE	08/30/23 00:25

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

**Lab Sample ID: 410-140485-12**

Date Collected: 08/24/23 08:50

Matrix: Water

Date Received: 08/25/23 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	413930	JS6E	ELLE	08/30/23 00:46

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

**Lab Sample ID: 410-140485-13**

Date Collected: 08/24/23 12:00

Matrix: Water

Date Received: 08/25/23 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	413930	JS6E	ELLE	08/30/23 03:33
Total/NA	Analysis	8260D	DL	10	413930	JS6E	ELLE	08/30/23 03:54

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

**Lab Sample ID: 410-140485-14**

Date Collected: 08/24/23 00:00

Matrix: Water

Date Received: 08/25/23 17:14

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	413930	JS6E	ELLE	08/29/23 19:51



# Lab Chronicle

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

Job ID: 410-140485-1

**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: 410-140485-1

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## Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

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Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-24

# Method Summary

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

Job ID: 410-140485-1

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<b>Method</b>	<b>Method Description</b>	<b>Protocol</b>	<b>Laboratory</b>
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: 410-140485-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-140485-1	HD-COD-SW-6-0/1-0	Water	08/24/23 10:58	08/25/23 17:14
410-140485-2	HD-COD-SW-7-0/1-0	Water	08/24/23 11:40	08/25/23 17:14
410-140485-3	HD-COD-SW-8-0/1-0	Water	08/24/23 09:07	08/25/23 17:14
410-140485-4	HD-COD-SW-9-0/1-0	Water	08/24/23 13:00	08/25/23 17:14
410-140485-5	HD-COD-SW-13-0/1-0	Water	08/24/23 09:35	08/25/23 17:14
410-140485-6	HD-COD-SW-15-0/1-0	Water	08/24/23 12:02	08/25/23 17:14
410-140485-7	HD-COD-SW-16-0/1-0	Water	08/24/23 10:05	08/25/23 17:14
410-140485-8	HD-COD-SW-17-0/1-0	Water	08/24/23 10:16	08/25/23 17:14
410-140485-9	HD-COD-SW-26-0/1-0	Water	08/24/23 11:23	08/25/23 17:14
410-140485-10	HD-COD-SW-27-0/1-0	Water	08/24/23 11:53	08/25/23 17:14
410-140485-11	HD-COD-SW-28-0/1-0	Water	08/24/23 13:20	08/25/23 17:14
410-140485-12	HD-COD-SW-29-0/1-0	Water	08/24/23 08:50	08/25/23 17:14
410-140485-13	HD-QC1-0/1-1	Water	08/24/23 12:00	08/25/23 17:14
410-140485-14	HD-QC1-0/1-2	Water	08/24/23 00:00	08/25/23 17:14

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-140485-1

SDG No.: \_\_\_\_\_

Instrument ID: 19930 Analysis Batch Number: 388102Lab Sample ID: IC 410-388102/13 Client Sample ID: \_\_\_\_\_Date Analyzed: 06/19/23 18:19 Lab File ID: IU19X12.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.85	Incomplete Integration	DVW2	06/21/23 07:45
1,3-Butadiene	2.14	Incomplete Integration	DVW2	06/21/23 07:45
Dichlorofluoromethane	2.75	Incomplete Integration	DVW2	06/21/23 07:46
Acetone	3.38	Incomplete Integration	DVW2	06/21/23 07:47
Methyl acetate	3.77	Incomplete Integration	DVW2	06/21/23 07:47
Allyl chloride	3.78	Incomplete Integration	DVW2	06/21/23 07:48
t-Butyl alcohol-d10 (IS)	3.96	Incomplete Integration	DVW2	06/21/23 07:48
t-Butyl alcohol	4.08	Incomplete Integration	DVW2	06/21/23 07:48
n-Butanol	8.01	Incomplete Integration	DVW2	06/21/23 07:48
2-Nitropropane	8.89	Incomplete Integration	DVW2	06/21/23 07:49
1,4-Dioxane		Invalid Compound ID	DVW2	06/21/23 07:49
1-Chlorohexane	11.01	Peak assignment corrected	DVW2	06/22/23 07:47
Ethylbenzene	11.10	Incomplete Integration	DVW2	06/21/23 15:33
N-Propylbenzene	12.19	Incomplete Integration	DVW2	06/21/23 07:50
2-Chlorotoluene	12.27	Incomplete Integration	DVW2	06/21/23 15:33

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-140485-1

SDG No.: \_\_\_\_\_

Instrument ID: 19930 Analysis Batch Number: 388102Lab Sample ID: IC 410-388102/14 Client Sample ID: \_\_\_\_\_Date Analyzed: 06/19/23 18:40 Lab File ID: IU19X13.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.86	Incomplete Integration	DVW2	06/21/23 07:51
1,3-Butadiene	2.15	Incomplete Integration	DVW2	06/21/23 07:52
Dichlorofluoromethane	2.76	Incomplete Integration	DVW2	06/21/23 07:52
Acetone	3.37	Incomplete Integration	DVW2	06/21/23 07:52
Methyl acetate	3.77	Incomplete Integration	DVW2	06/21/23 07:52
t-Butyl alcohol-d10 (IS)	3.98	Incomplete Integration	DVW2	06/21/23 07:53
Isobutyl alcohol	6.95	Incomplete Integration	DVW2	06/21/23 07:53
1-Chlorohexane	11.01	Peak assignment corrected	DVW2	06/22/23 07:47
Ethylbenzene	11.10	Incomplete Integration	DVW2	06/21/23 15:33
2-Chlorotoluene	12.26	Incomplete Integration	DVW2	06/21/23 15:34

Lab Sample ID: IC 410-388102/15 Client Sample ID: \_\_\_\_\_Date Analyzed: 06/19/23 19:01 Lab File ID: IU19X14.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.85	Incomplete Integration	DVW2	06/21/23 07:54
1,3-Butadiene	2.15	Incomplete Integration	DVW2	06/21/23 07:54
Acetone	3.37	Incomplete Integration	DVW2	06/21/23 07:55
Methyl acetate	3.77	Incomplete Integration	DVW2	06/21/23 07:55
t-Butyl alcohol-d10 (IS)	3.98	Incomplete Integration	DVW2	06/21/23 07:55
1-Chlorohexane	11.00	Peak assignment corrected	DVW2	06/22/23 07:47
Ethylbenzene	11.10	Incomplete Integration	DVW2	06/21/23 15:34
2-Chlorotoluene	12.26	Incomplete Integration	DVW2	06/21/23 15:34

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-140485-1

SDG No.: \_\_\_\_\_

Instrument ID: 19930 Analysis Batch Number: 388102

Lab Sample ID: IC 410-388102/16 Client Sample ID: \_\_\_\_\_

Date Analyzed: 06/19/23 19:22 Lab File ID: IU19X15.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.76	Incomplete Integration	DVW2	06/21/23 08:04
t-Butyl alcohol-d10 (IS)	3.97	Incomplete Integration	DVW2	06/21/23 08:04
1,4-Dioxane	8.37	Incomplete Integration	DVW2	06/21/23 08:04
1-Chlorohexane	11.00	Peak assignment corrected	DVW2	06/22/23 07:47
Ethylbenzene	11.10	Incomplete Integration	DVW2	06/21/23 15:35
2-Chlorotoluene	12.26	Incomplete Integration	DVW2	06/21/23 15:35

Lab Sample ID: IC 410-388102/17 Client Sample ID: \_\_\_\_\_

Date Analyzed: 06/19/23 19:42 Lab File ID: IU19X16.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.76	Incomplete Integration	DVW2	06/21/23 08:06
t-Butyl alcohol-d10 (IS)	3.98	Incomplete Integration	DVW2	06/21/23 08:06
1,4-Dioxane	8.36	Incomplete Integration	DVW2	06/21/23 08:06
1-Chlorohexane	11.00	Peak assignment corrected	DVW2	06/22/23 07:48
Ethylbenzene	11.10	Incomplete Integration	DVW2	06/21/23 15:38
2-Chlorotoluene	12.26	Incomplete Integration	DVW2	06/21/23 15:38

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-140485-1

SDG No.: \_\_\_\_\_

Instrument ID: 19930 Analysis Batch Number: 388102Lab Sample ID: ICIS 410-388102/18 Client Sample ID: \_\_\_\_\_Date Analyzed: 06/19/23 20:03 Lab File ID: IU19X17.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.05	Incomplete Integration	DVW2	06/21/23 07:36
1,3-Butadiene	2.16	Incomplete Integration	DVW2	06/21/23 08:07
1,1-Dichloroethene	3.34	Incomplete Integration	DVW2	06/21/23 07:36
Acetone	3.36	Incomplete Integration	DVW2	06/21/23 07:36
Freon 113	3.39	Incomplete Integration	DVW2	06/21/23 07:36
Methyl iodide	3.53	Incomplete Integration	DVW2	06/21/23 07:37
Carbon disulfide	3.63	Incomplete Integration	DVW2	06/21/23 07:37
Methyl acetate	3.76	Incomplete Integration	DVW2	06/21/23 07:37
Allyl chloride	3.78	Incomplete Integration	DVW2	06/21/23 07:37
Methylene Chloride	3.96	Incomplete Integration	DVW2	06/21/23 07:37
t-Butyl alcohol-d10 (IS)	3.98	Incomplete Integration	DVW2	06/21/23 07:35
t-Butyl alcohol	4.09	Incomplete Integration	DVW2	06/21/23 07:37
Acrylonitrile	4.28	Incomplete Integration	DVW2	06/21/23 07:37
Methyl tert-butyl ether	4.34	Incomplete Integration	DVW2	06/21/23 07:38
trans-1,2-Dichloroethene	4.36	Incomplete Integration	DVW2	06/21/23 07:38
n-Hexane	4.78	Incomplete Integration	DVW2	06/21/23 07:38
1,1-Dichloroethane	5.01	Incomplete Integration	DVW2	06/21/23 07:38
di-Isopropyl ether	5.07	Incomplete Integration	DVW2	06/21/23 07:38
2-Chloro-1,3-butadiene	5.12	Incomplete Integration	DVW2	06/21/23 07:38
Ethyl t-butyl ether	5.62	Incomplete Integration	DVW2	06/21/23 07:38
2-Butanone (MEK)	5.81	Incomplete Integration	DVW2	06/21/23 07:38
cis-1,2-Dichloroethene	5.85	Incomplete Integration	DVW2	06/21/23 07:38
2,2-Dichloropropane	5.87	Incomplete Integration	DVW2	06/21/23 07:38
Propionitrile	5.89	Incomplete Integration	DVW2	06/21/23 07:38
Methacrylonitrile	6.11	Incomplete Integration	DVW2	06/21/23 07:38
Bromochloromethane	6.19	Incomplete Integration	DVW2	06/21/23 07:38
Tetrahydrofuran	6.20	Incomplete Integration	DVW2	06/21/23 07:38
Chloroform	6.34	Incomplete Integration	DVW2	06/21/23 07:38
Dibromofluoromethane (Surr)	6.56	Peak assignment corrected	DVW2	06/21/23 07:35
1,1,1-Trichloroethane	6.57	Incomplete Integration	DVW2	06/21/23 07:38



## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-140485-1

SDG No.: \_\_\_\_\_

Instrument ID: 19930 Analysis Batch Number: 388102Lab Sample ID: ICIS 410-388102/18 Client Sample ID: \_\_\_\_\_Date Analyzed: 06/19/23 20:03 Lab File ID: IU19X17.D GC Column: R-624SilMS 30m ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Cyclohexane	6.67	Incomplete Integration	DVW2	06/21/23 07:38
1,1-Dichloropropene	6.78	Incomplete Integration	DVW2	06/21/23 07:39
Carbon tetrachloride	6.78	Incomplete Integration	DVW2	06/21/23 07:39
Isobutyl alcohol	6.94	Incomplete Integration	DVW2	06/21/23 07:39
1,2-Dichloroethane-d4 (Surr)	7.01	Peak assignment corrected	DVW2	06/21/23 07:35
Benzene	7.04	Incomplete Integration	DVW2	06/21/23 07:39
1,2-Dichloroethane	7.12	Incomplete Integration	DVW2	06/21/23 07:39
t-Amyl methyl ether	7.24	Incomplete Integration	DVW2	06/21/23 07:39
Fluorobenzene (IS)	7.45	Peak assignment corrected	DVW2	06/21/23 07:35
n-Heptane	7.47	Incomplete Integration	DVW2	06/21/23 07:39
n-Butanol	7.84	Incomplete Integration	DVW2	06/21/23 07:39
Trichloroethene	7.93	Incomplete Integration	DVW2	06/21/23 07:39
Methylcyclohexane	8.24	Incomplete Integration	DVW2	06/21/23 07:39
1,2-Dichloropropane	8.27	Incomplete Integration	DVW2	06/21/23 07:39
Methyl methacrylate	8.35	Incomplete Integration	DVW2	06/21/23 07:39
1,4-Dioxane	8.37	Incomplete Integration	DVW2	06/21/23 07:40
Dibromomethane	8.38	Incomplete Integration	DVW2	06/21/23 07:40
Bromodichloromethane	8.62	Incomplete Integration	DVW2	06/21/23 07:40
1-Bromo-2-chloroethane	9.01	Incomplete Integration	DVW2	06/21/23 07:40
Toluene-d8 (Surr)	9.50	Incomplete Integration	DVW2	06/21/23 07:35
1-Chlorohexane	11.00	Peak assignment corrected	DVW2	06/22/23 07:48
Ethylbenzene	11.10	Incomplete Integration	DVW2	06/21/23 15:39
4-Bromofluorobenzene (Surr)	12.00	Incomplete Integration	DVW2	06/21/23 07:35
2-Chlorotoluene	12.26	Incomplete Integration	DVW2	06/21/23 15:39
4-Chlorotoluene	12.35	Incomplete Integration	DVW2	06/21/23 07:40
1,2,4-Trimethylbenzene	12.61	Incomplete Integration	DVW2	06/21/23 07:41
Benzyl chloride	12.98	Incomplete Integration	DVW2	06/21/23 07:41
Naphthalene	14.43	Incomplete Integration	DVW2	06/21/23 07:41

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-140485-1

SDG No.: \_\_\_\_\_

Instrument ID: 19930 Analysis Batch Number: 388102Lab Sample ID: IC 410-388102/19 Client Sample ID: \_\_\_\_\_Date Analyzed: 06/19/23 20:25 Lab File ID: IU19X18.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.15	Incomplete Integration	DVW2	06/21/23 08:08
Methyl acetate	3.75	Incomplete Integration	DVW2	06/21/23 08:09
t-Butyl alcohol-d10 (IS)	3.98	Incomplete Integration	DVW2	06/21/23 08:09
1,4-Dioxane	8.37	Incomplete Integration	DVW2	06/21/23 08:09
1-Chlorohexane	11.00	Peak assignment corrected	DVW2	06/22/23 07:48
Ethylbenzene	11.10	Incomplete Integration	DVW2	06/21/23 15:39
2-Chlorotoluene	12.26	Incomplete Integration	DVW2	06/21/23 15:39
4-Chlorotoluene	12.35	Incomplete Integration	DVW2	06/21/23 08:09

Lab Sample ID: ICV 410-388102/21 Client Sample ID: \_\_\_\_\_Date Analyzed: 06/19/23 21:07 Lab File ID: IU19X20.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.15	Incomplete Integration	DVW2	06/21/23 08:10
Methyl acetate	3.76	Incomplete Integration	DVW2	06/21/23 08:11
1,4-Dioxane	8.37	Incomplete Integration	DVW2	06/21/23 08:11
1-Chlorohexane	11.00	Peak assignment corrected	DVW2	06/22/23 07:49
Ethylbenzene	11.10	Incomplete Integration	DVW2	06/21/23 15:40
2-Chlorotoluene	12.26	Incomplete Integration	DVW2	06/21/23 15:40

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-140485-1

SDG No.: \_\_\_\_\_

Instrument ID: 19930 Analysis Batch Number: 413930Lab Sample ID: CCVIS 410-413930/3 Client Sample ID: \_\_\_\_\_Date Analyzed: 08/29/23 18:06 Lab File ID: IG29X02.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.76	Incomplete Integration	JS6E	08/29/23 18:30

Lab Sample ID: 410-140485-14 Client Sample ID: HD-QC1-0/1-2Date Analyzed: 08/29/23 19:51 Lab File ID: IG29X07.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)		Invalid Compound ID	kaewrungr ueangp	08/30/23 14:11
2-Hexanone		Invalid Compound ID	kaewrungr ueangp	08/30/23 14:12

Lab Sample ID: 410-140485-1 Client Sample ID: HD-COD-SW-6-0/1-0Date Analyzed: 08/29/23 21:36 Lab File ID: IG29X12.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.62	Invalid Compound ID	kaewrungr ueangp	08/30/23 14:14

Lab Sample ID: 410-140485-4 Client Sample ID: HD-COD-SW-9-0/1-0Date Analyzed: 08/29/23 22:39 Lab File ID: IG29X15.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	5.89	Peak assignment corrected	kaewrungr ueangp	08/30/23 14:16

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-140485-1

SDG No.: \_\_\_\_\_

Instrument ID: 19930 Analysis Batch Number: 413930Lab Sample ID: 410-140485-9 Client Sample ID: HD-COD-SW-26-0/1-0Date Analyzed: 08/29/23 23:42 Lab File ID: IG29X18.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone		Invalid Compound ID	kaewrungr ueangp	08/30/23 14:17

Lab Sample ID: 410-140485-10 Client Sample ID: HD-COD-SW-27-0/1-0Date Analyzed: 08/30/23 00:03 Lab File ID: IG29X19.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	5.87	Peak assignment corrected	kaewrungr ueangp	08/30/23 14:18

Lab Sample ID: 410-140485-11 Client Sample ID: HD-COD-SW-28-0/1-0Date Analyzed: 08/30/23 00:25 Lab File ID: IG29X20.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	5.89	Peak assignment corrected	kaewrungr ueangp	08/30/23 14:18

Lab Sample ID: 410-140485-8 Client Sample ID: HD-COD-SW-17-0/1-0Date Analyzed: 08/30/23 02:51 Lab File ID: IG29X27.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloroethane		Invalid Compound ID	kaewrungr ueangp	08/30/23 14:22
Acetone		Invalid Compound ID	kaewrungr ueangp	08/30/23 14:22
Chlorobenzene	11.01	Peak assignment corrected	kaewrungr ueangp	08/30/23 14:23

## GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-140485-1

SDG No.: \_\_\_\_\_

Instrument ID: 19930 Analysis Batch Number: 413930Lab Sample ID: 410-140485-13 Client Sample ID: HD-QC1-0/1-1Date Analyzed: 08/30/23 03:33 Lab File ID: IG29X29.D GC Column: R-624SilMS 30m ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloroethane		Invalid Compound ID	kaewrungr ueangp	08/30/23 14:56
Acetone		Invalid Compound ID	kaewrungr ueangp	08/30/23 14:56

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-140485-1

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_00115	07/18/23	06/18/23	Methanol, Lot EG095	25 mL	MSV_M_MIX1SEC_00130	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_00134	1 mL	Carbon disulfide	40 ug/mL					
		Methyl tert-butyl ether	40 ug/mL					
MSV_Q_Ketones_00136	1 mL	2-Butanone (MEK)	500 ug/mL					
		2-Hexanone	500 ug/mL					
		4-Methyl-2-pentanone (MIBK)	500 ug/mL					
		Acetone	500 ug/mL					
.MSV_M_MIX1SEC_00130	04/30/25	Restek, Lot A0184354	(Purchased Reagent)	1,1,1,2-Tetrachloroethane	1000 ug/mL			
				1,1,1-Trichloroethane	1000 ug/mL			
				1,1,2,2-Tetrachloroethane	1000 ug/mL			
				1,1,2-Trichloroethane	1000 ug/mL			
				1,1-Dichloroethane	1000 ug/mL			
				1,1-Dichloroethene	1000 ug/mL			
				1,2-Dibromoethane (EDB)	1000 ug/mL			
				1,2-Dichloroethane	1000 ug/mL			
				1,2-Dichloropropane	1000 ug/mL			
				Benzene	1000 ug/mL			
				Bromochloromethane	1000 ug/mL			
				Bromodichloromethane	1000 ug/mL			
				Bromoform	1000 ug/mL			
				Carbon tetrachloride	1000 ug/mL			

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-140485-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00134	04/30/25		Restek, Lot A0184412		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00136	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_00127	09/26/23	08/27/23	Methanol, Lot EG095	25 mL	MSV_M_MIX1SEC_00150	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_00148	1 mL	Carbon disulfide	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-140485-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00148	1 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00150	04/30/25		Restek, Lot A0184354		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
.MSV_M_MIX2SEC_00148	04/30/25		Restek, Lot A0184412		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00148	04/30/25		Restek, Lot A0184721		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LL_#1_826_00081	07/11/23	06/18/23	Methanol, Lot EG095	1 mL	MSV_CCV_VOC#1_00130	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-140485-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-140485-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration			
					Reagent ID	Volume Added					
							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_00130				200 uL	Acrolein	2500.08 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
									150 uL	1,4-Dioxane	2500 ug/mL
					2-Methyl-2-propanol	1000 ug/mL					
					Isobutyl alcohol	2500 ug/mL					
					Methacrylonitrile	500 ug/mL					
					n-Butanol	4375 ug/mL					
					Propionitrile	1000 ug/mL					
					trans-1,4-Dichloro-2-butene	500 ug/mL					
.MSV_CCV_VOC#1_00130	07/18/23	06/18/23	Methanol, Lot EG095	5 mL	MSV_MegaMIX#1_00130	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL			
							1,1,1-Trichloroethane	1000 ug/mL			
							1,1,2,2-Tetrachloroethane	1000 ug/mL			
							1,1,2-Trichloroethane	1000 ug/mL			
							1,1-Dichloroethane	1000 ug/mL			
							1,1-Dichloroethene	1000 ug/mL			
							1,1-Dichloropropene	1000 ug/mL			
							1,2,3-Trichlorobenzene	1000 ug/mL			
							1,2,3-Trichloropropane	1000 ug/mL			

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-140485-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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_00125	1 mL	1,1,2-Trichloro-1,2,2-trifluoroethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-140485-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00130	07/18/23		Restek, Lot A0184527			(Purchased Reagent)	1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trimethylbenzene	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-140485-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00125	07/18/23		Restek, Lot A0186885		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2,3-Trimethylbenzene	5000 ug/mL
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							2-Nitropropane	25000 ug/mL
							3-Chloro-1-propene	5000 ug/mL
							Acrylonitrile	12500 ug/mL
							Benzyl chloride	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Hexane	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-140485-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00130	07/18/23	06/18/23	Methanol, Lot EG095	5 mL	MSV_CCV_ACR_00011 MSV_V_Ketones_00125	0.5 mL 1 mL	Acrolein	12500.4 ug/mL
							2-Butanone (MEK)	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone (MIBK)	2500 ug/mL
							Acetone	2500 ug/mL
..MSV_CCV_ACR_00011	07/30/23	05/31/23	Methanol, Lot EG095	10 mL	MSV_VACR_STK_00033	9.259 mL	Acrolein	125004 ug/mL
...MSV_VACR_STK_00033	07/30/23	05/31/23	Methanol, Lot EG095	10 mL	MSV_ACROLEIN_00026	1.4564 g	Acrolein	135008 ug/mL
...MSV_ACROLEIN_00026	11/30/23		Chem Service, Lot 13910600				Acrolein	0.927 g/g
..MSV_V_Ketones_00125	01/31/25		Restek, Lot A0186508				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_00194	07/11/23	06/11/23	Methanol, Lot EG095	5 mL	MSV_V#2B_00323	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_00323	05/31/25		Restek, Lot A0197599				1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Methacrylonitrile	12500 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_LL_#1_826_00091	09/23/23	08/27/23	Methanol, Lot EG095	1 mL	MSV_CCV_VOC#1_00141	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 Envir Job No.: 410-140485-1

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)	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_00140	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_00141	09/26/23	08/27/23	Methanol, Lot EG095	5 mL	MSV_MegaMIX#1_00140	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-140485-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00135	1 mL	Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
..MSV_MegaMIX#1_00140	09/26/23		Restek, Lot A0184527		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							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
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00135	06/30/25		Restek, Lot A0193406		(Purchased Reagent)		Carbon disulfide	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
..MSV_CCv_VOC#3_00140	09/23/23	08/27/23	Methanol, Lot EG095	5 mL	MSV_V_Ketones_00136	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_00136	01/31/25		Restek, Lot A0186508		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LL_#2_826_00093	07/18/23	06/18/23	Methanol, Lot EG095	1 mL	MSV_BCE_00057	25 uL	1-Bromo-2-chloroethane	50 ug/mL
					MSV_CCv_EE_00005	50 uL	Ethyl ether	50.0068 ug/mL



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Enviro Job No.: 410-140485-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration					
					Reagent ID	Volume Added							
.MSV BCE 00057	07/18/23		Restek, Lot A0177627		MSV V PentaCL 00034	10 uL	Pentachloroethane	50 ug/mL					
					(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 00034	07/18/23		Restek, Lot A0184174		(Purchased Reagent)		Pentachloroethane	5000 ug/mL					
MSV_LL_GAS826_00156	06/25/23	06/18/23	Methanol, Lot EG095	1 mL	MSV_CCV_GASES_00496	25 uL	1,2-Dichloro-1,1,2-trifluoroethane	50 ug/mL					
							Bromomethane	50 ug/mL					
							Butadiene	50 ug/mL					
							Chloroethane	50 ug/mL					
							Chloromethane	50 ug/mL					
							Dichlorodifluoromethane	50 ug/mL					
							Dichlorofluoromethane	50 ug/mL					
							Trichlorofluoromethane	50 ug/mL					
Vinyl chloride	50 ug/mL												
.MSV_CCV_GASES_00496	06/25/23		Restek, Lot A0197586		(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL					
							Bromomethane	2000 ug/mL					
							Butadiene	2000 ug/mL					
							Chloroethane	2000 ug/mL					
							Chloromethane	2000 ug/mL					
							Dichlorodifluoromethane	2000 ug/mL					
							Dichlorofluoromethane	2000 ug/mL					
							Trichlorofluoromethane	2000 ug/mL					
Vinyl chloride	2000 ug/mL												
MSV_LL_GAS826_00167	09/03/23	08/27/23	Methanol, Lot EG095	1 mL	MSV_CCV_GASES_00569	25 uL	Bromomethane	50 ug/mL					
							Chloroethane	50 ug/mL					
							Chloromethane	50 ug/mL					
							Vinyl chloride	50 ug/mL					
.MSV_CCV_GASES_00569	09/03/23		Restek, Lot A0197586		(Purchased Reagent)		Bromomethane	2000 ug/mL					
							Chloroethane	2000 ug/mL					
							Chloromethane	2000 ug/mL					
							Vinyl chloride	2000 ug/mL					
MSV_LLcentISS_00007	10/05/23	04/05/23	Methanol, Lot EG095	50 mL	MSV_8260_SS_00879	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL					
							4-Bromofluorobenzene (Surr)	50 ug/mL					
							Dibromofluoromethane (Surr)	50 ug/mL					
										MSV_Cus826_IS_00552	1 mL	Toluene-d8 (Surr)	50 ug/mL
												1,4-Dichlorobenzene-d4	50 ug/mL
												Chlorobenzene-d5 (IS)	50 ug/mL
.MSV_8260_SS_00879	03/31/25		Restek, Lot A0183565		(Purchased Reagent)		Fluorobenzene (IS)	50 ug/mL					
							t-Butyl alcohol-d10 (IS)	250 ug/mL					
							1,2-Dichloroethane-d4 (Surr)	2500 ug/mL					
							4-Bromofluorobenzene (Surr)	2500 ug/mL					
							Dibromofluoromethane (Surr)	2500 ug/mL					
.MSV_Cus826_IS_00552	04/30/25		Restek, Lot A0184225		(Purchased Reagent)		Toluene-d8 (Surr)	2500 ug/mL					
							1,4-Dichlorobenzene-d4	2500 ug/mL					

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Envir Job No.: 410-140485-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_LLcentISS_00009	01/06/24	07/06/23	Methanol, Lot EG095	50 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_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_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_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_QC_Gas826_00145	06/25/23	06/18/23	Methanol, Lot EG095	1 mL	MSV_QC_2K_GAS_00148	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00148	06/25/23		Restek, Lot A0184924			(Purchased Reagent)	Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_QC_Gas826_00157	09/03/23	08/27/23	Methanol, Lot EG095	1 mL	MSV_QC_2K_GAS_00174	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00174	09/03/23		Restek, Lot A0184924			(Purchased Reagent)	Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_V_BFB_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

Reagent

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**MSV\_BCE\_00057**

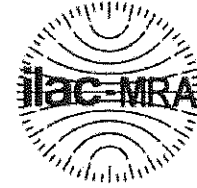


# CERTIFIED REFERENCE MATERIAL

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. : 30469 Lot No.: A0177627

Description : 1-Bromo-2-chloroethane Standard  
1-Bromo-2-Chloroethane Std, 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : October 31, 2026 Storage: 0°C or colder  
Ship: Ambient

### CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	1-Bromo-2-chloroethane CAS # 107-04-0 Purity 99% (Lot BCCC1146)	2,001.3 µg/mL	+/-	11.8868	µg/mL	Gravimetric
			+/-	112.2344	µg/mL	Unstressed
			+/-	114.8594	µg/mL	Stressed

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

**Column:**

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

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

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

**Inj. Temp:**

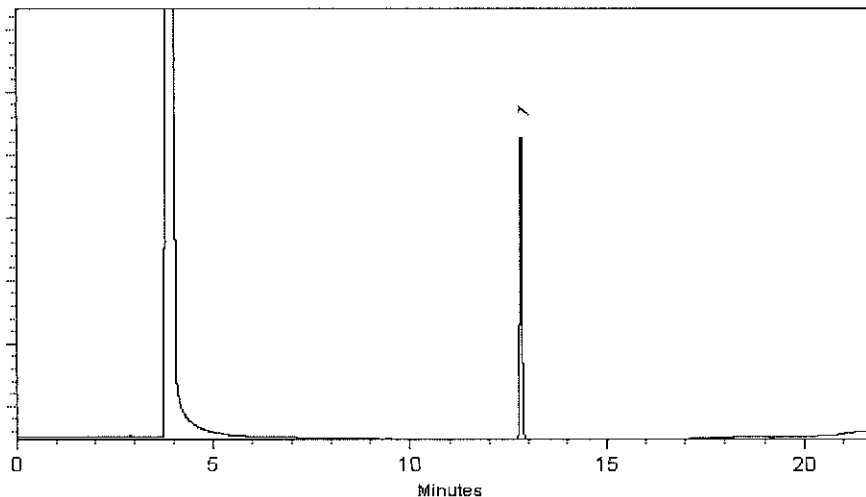
200°C

**Det. Temp:**

250°C

**Det. Type:**

FID



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

*Cathleen Soltis*

Cathleen Soltis - Mix Technician

Date Mixed: 20-Oct-2021

Balance: B251644995

*Alexis Shelow*

Alexis Shelow - Operations Tech I

Date Passed: 22-Oct-2021

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

## General Certified Reference Material Notes

### Expiration Notes:

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

### Purity Notes:

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

### 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](http://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](http://www.restek.com/Contact-Us).
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

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

### Handling Notes:

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

Reagent

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**MSV\_QC\_2K\_GAS\_00148**



# CERTIFIED REFERENCE MATERIAL

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

www.restek.com

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

**Ship:** Ambient

### CERTIFIED VALUES

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



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

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

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

**Tech Tips:**

Raw material may contain trace amounts of tert-Butanol.

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

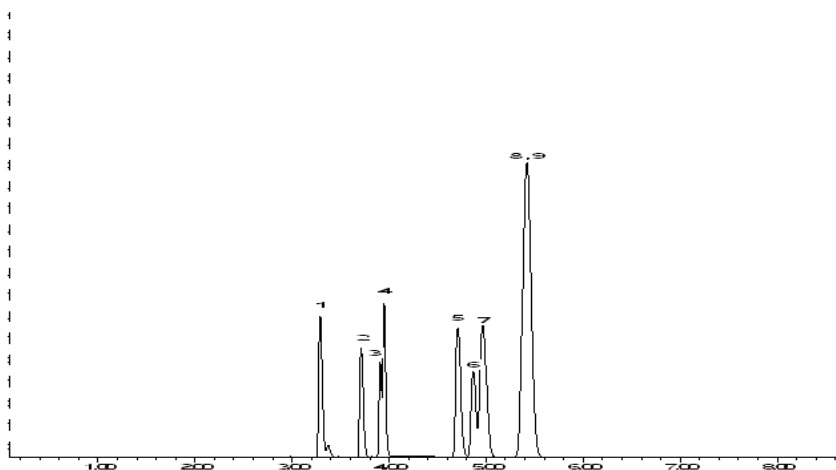
**Carrier Gas:**  
helium-constant flow 2.0 mL/min.

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

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
MSD



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

*Brandon Reish*  
Brandon Reish - Mix Technician

Date Mixed: 05-May-2022 Balance: 1127510105

*Marlina Cowan*  
Marlina Cowan - Operations Tech I

Date Passed: 10-May-2022

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

## General Certified Reference Material Notes

### Expiration Notes:

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

### Purity Notes:

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

### Certified Uncertainty Value Notes:

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

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

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

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at [www.restek.com/Contact-Us](http://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](http://www.restek.com/Contact-Us).
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

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

### Handling Notes:

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

Reagent

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**MSV\_V\_PentaCL\_00034**



# CERTIFIED REFERENCE MATERIAL

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

www.restek.com

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

**Ship:** Ambient

### CERTIFIED VALUES

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

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

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

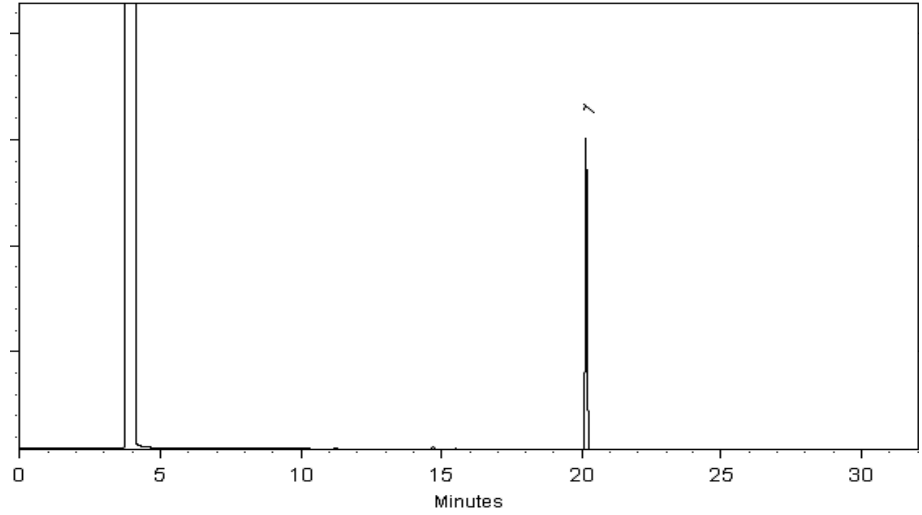
**Carrier Gas:**  
hydrogen-constant pressure 11.0 psi.

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

**Inj. Temp:**  
200°C

**Det. Temp:**  
250°C

**Det. Type:**  
FID



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

*Nick Yaw*

**Nick Yaw - Operations Tech I**

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

**Balance:** B707717271

*Christie Mills*

**Christie Mills - Operations Technician II**

**Date Passed:** 20-Apr-2022

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

## General Certified Reference Material Notes

### Expiration Notes:

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

### Purity Notes:

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

### Certified Uncertainty Value Notes:

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

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

*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](http://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](http://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

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

FORM II  
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories En Job No.: 410-140485-1

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	410-140485-1	109	110	100	93
HD-COD-SW-7-0/1-0	410-140485-2	109	109	100	93
HD-COD-SW-8-0/1-0	410-140485-3	108	107	101	93
HD-COD-SW-9-0/1-0	410-140485-4	109	108	99	93
HD-COD-SW-13-0/1-0	410-140485-5	110	107	99	91
HD-COD-SW-15-0/1-0	410-140485-6	108	109	97	91
HD-COD-SW-16-0/1-0	410-140485-7	112	112	101	93
HD-COD-SW-17-0/1-0	410-140485-8	110	110	96	91
HD-COD-SW-17-0/1-0 DL	410-140485-8 DL	109	108	98	90
HD-COD-SW-26-0/1-0	410-140485-9	109	110	97	92
HD-COD-SW-27-0/1-0	410-140485-10	109	111	99	91
HD-COD-SW-28-0/1-0	410-140485-11	111	112	99	91
HD-COD-SW-29-0/1-0	410-140485-12	111	111	100	92
HD-QC1-0/1-1	410-140485-13	109	109	96	91
HD-QC1-0/1-1 DL	410-140485-13 DL	111	107	99	91
HD-QC1-0/1-2	410-140485-14	108	107	99	94
	MB 410-413930/6	105	106	98	94
	LCS 410-413930/4	102	105	102	100
HD-COD-SW-15-0/1-0 MS MS	410-140485-6 MS	101	110	103	100
HD-COD-SW-15-0/1-0 MSD MSD	410-140485-6 MSD	101	105	103	101

QC LIMITS

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

# Column to be used to flag recovery values



FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories  
Environment Testing, LLC

Job No.: 410-140485-1

SDG No.:

Matrix: Water

Level: Low

Lab File ID: IG29X03.D

Lab ID: LCS 410-413930/4

Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.26	105	71-134	
1,1,1-Trichloroethane	5.00	5.09	102	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.43	109	75-123	
1,1,2-Trichloroethane	5.00	5.38	108	80-120	
1,1-Dichloroethane	5.00	5.25	105	74-120	
1,1-Dichloroethene	5.00	4.71	94	80-131	
1,2-Dibromoethane (EDB)	5.00	5.37	107	80-120	
1,2-Dichloroethane	5.00	5.81	116	69-122	
1,2-Dichloropropane	5.00	5.68	114	80-120	
2-Butanone (MEK)	62.5	70.9	113	59-141	
2-Hexanone	62.5	71.1	114	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	71.4	114	55-140	
Acetone	62.5	70.1	112	60-146	
Benzene	5.00	5.31	106	80-120	
Bromochloromethane	5.00	5.21	104	80-120	
Bromodichloromethane	5.00	5.52	110	73-124	
Bromoform	5.00	5.19	104	49-144	
Bromomethane	5.00	4.43	89	60-136	
Carbon disulfide	5.00	5.09	102	67-130	
Carbon tetrachloride	5.00	5.19	104	64-141	
Chlorobenzene	5.00	5.01	100	80-120	
Chloroethane	5.00	4.83	97	63-120	
Chloroform	5.00	5.27	105	80-120	
Chloromethane	5.00	4.90	98	56-124	
cis-1,2-Dichloroethene	5.00	5.11	102	80-122	
cis-1,3-Dichloropropene	5.00	4.99	100	67-121	
Dibromochloromethane	5.00	5.31	106	64-138	
Ethylbenzene	5.00	4.94	99	80-120	
Methyl tert-butyl ether	5.00	4.78	96	69-120	
Methylene Chloride	5.00	5.26	105	80-120	
Styrene	5.00	4.95	99	80-120	
Tetrachloroethene	5.00	4.66	93	80-120	
Toluene	5.00	5.04	101	80-120	
trans-1,2-Dichloroethene	5.00	4.85	97	80-122	
trans-1,3-Dichloropropene	5.00	5.40	108	61-129	
Trichloroethene	5.00	4.90	98	80-120	
Vinyl chloride	5.00	4.55	91	60-125	
Xylenes, Total	15.0	14.5	97	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.: 410-140485-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: IG29X09.D

Lab ID: 410-140485-6 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	5.71	114	71-134	
1,1,1-Trichloroethane	5.00	0.23 J	6.08	117	78-126	
1,1,2,2-Tetrachloroethane	5.00	ND	5.53	110	75-123	
1,1,2-Trichloroethane	5.00	ND	5.47	109	80-120	
1,1-Dichloroethane	5.00	ND	6.08	121	74-120	FH
1,1-Dichloroethene	5.00	0.12 J	5.78	113	80-131	
1,2-Dibromoethane (EDB)	5.00	ND	5.43	109	80-120	
1,2-Dichloroethane	5.00	ND	5.85	117	69-122	
1,2-Dichloropropane	5.00	ND	6.23	124	80-120	FH
2-Butanone (MEK)	62.6	ND	78.1	125	59-141	
2-Hexanone	62.6	ND	79.4	127	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	ND	79.0	126	55-140	
Acetone	62.6	2.2 J	73.6	114	60-146	
Benzene	5.00	ND	5.97	119	80-120	
Bromochloromethane	5.00	ND	5.44	109	80-120	
Bromodichloromethane	5.00	ND	5.89	118	73-124	
Bromoform	5.00	ND	5.21	104	49-144	
Bromomethane	5.00	ND	4.97	99	60-136	
Carbon disulfide	5.00	ND	6.05	121	67-130	
Carbon tetrachloride	5.00	ND	6.23	125	64-141	
Chlorobenzene	5.00	ND	5.57	111	80-120	
Chloroethane	5.00	ND	5.65	113	63-120	
Chloroform	5.00	0.24 J	6.08	117	80-120	
Chloromethane	5.00	ND	5.92	118	80-120	
cis-1,2-Dichloroethene	5.00	0.76	6.37	112	80-122	
cis-1,3-Dichloropropene	5.00	ND	5.22	104	67-121	
Dibromochloromethane	5.00	ND	5.61	112	64-138	
Ethylbenzene	5.00	ND	5.61	112	80-120	
Methyl tert-butyl ether	5.00	ND	4.92	98	69-120	
Methylene Chloride	5.00	ND	5.72	114	80-120	
Styrene	5.00	ND	5.41	108	80-120	
Tetrachloroethene	5.00	4.2	9.72	110	80-120	
Toluene	5.00	ND	5.63	112	80-120	
trans-1,2-Dichloroethene	5.00	ND	5.47	109	80-122	
trans-1,3-Dichloropropene	5.00	ND	5.59	112	61-129	
Trichloroethene	5.00	0.97	6.69	114	80-120	
Vinyl chloride	5.00	ND	5.73	115	60-125	
Xylenes, Total	15.0	ND	16.4	109	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.: 410-140485-1

SDG No.:

Matrix: Water Level: Low

Lab File ID: IG29X10.D

Lab ID: 410-140485-6 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	5.45	109	5	30	71-134	
1,1,1-Trichloroethane	5.00	5.91	113	3	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.30	106	4	30	75-123	
1,1,2-Trichloroethane	5.00	5.26	105	4	30	80-120	
1,1-Dichloroethane	5.00	5.85	117	4	30	74-120	
1,1-Dichloroethene	5.00	5.55	109	4	30	80-131	
1,2-Dibromoethane (EDB)	5.00	5.40	108	1	30	80-120	
1,2-Dichloroethane	5.00	5.70	114	3	30	69-122	
1,2-Dichloropropane	5.00	5.88	118	6	30	80-120	
2-Butanone (MEK)	62.6	73.0	117	7	30	59-141	
2-Hexanone	62.6	74.0	118	7	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	73.5	117	7	30	55-140	
Acetone	62.6	71.1	110	3	30	60-146	
Benzene	5.00	5.73	114	4	30	80-120	
Bromochloromethane	5.00	5.27	105	3	30	80-120	
Bromodichloromethane	5.00	5.69	114	4	30	73-124	
Bromoform	5.00	4.99	100	4	30	49-144	
Bromomethane	5.00	4.84	97	3	30	60-136	
Carbon disulfide	5.00	5.75	115	5	30	67-130	
Carbon tetrachloride	5.00	5.99	120	4	30	64-141	
Chlorobenzene	5.00	5.34	107	4	30	80-120	
Chloroethane	5.00	5.41	108	4	30	63-120	
Chloroform	5.00	5.81	111	5	30	80-120	
Chloromethane	5.00	5.63	113	5	30	80-120	
cis-1,2-Dichloroethene	5.00	6.21	109	3	30	80-122	
cis-1,3-Dichloropropene	5.00	5.12	102	2	30	67-121	
Dibromochloromethane	5.00	5.33	106	5	30	64-138	
Ethylbenzene	5.00	5.42	108	3	30	80-120	
Methyl tert-butyl ether	5.00	4.74	95	4	30	69-120	
Methylene Chloride	5.00	5.45	109	5	30	80-120	
Styrene	5.00	5.19	104	4	30	80-120	
Tetrachloroethene	5.00	9.45	105	3	30	80-120	
Toluene	5.00	5.49	110	2	30	80-120	
trans-1,2-Dichloroethene	5.00	5.24	105	4	30	80-122	
trans-1,3-Dichloropropene	5.00	5.50	110	2	30	61-129	
Trichloroethene	5.00	6.34	107	5	30	80-120	
Vinyl chloride	5.00	5.53	111	4	30	60-125	
Xylenes, Total	15.0	15.7	105	4	30	80-120	

# Column to be used to flag recovery and RPD values

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-140485-1  
Environment Testing, LLC

SDG No.: \_\_\_\_\_

Lab File ID: IG29X05.D Lab Sample ID: MB 410-413930/6

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

Instrument ID: 19930 Date Analyzed: 08/29/2023 19:09

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 410-413930/4	IG29X03.D	08/29/2023 18:26
HD-QC1-0/1-2	410-140485-14	IG29X07.D	08/29/2023 19:51
HD-COD-SW-15-0/1-0	410-140485-6	IG29X08.D	08/29/2023 20:12
HD-COD-SW-15-0/1-0 MS MS	410-140485-6 MS	IG29X09.D	08/29/2023 20:33
HD-COD-SW-15-0/1-0 MSD MSD	410-140485-6 MSD	IG29X10.D	08/29/2023 20:54
HD-COD-SW-6-0/1-0	410-140485-1	IG29X12.D	08/29/2023 21:36
HD-COD-SW-7-0/1-0	410-140485-2	IG29X13.D	08/29/2023 21:57
HD-COD-SW-8-0/1-0	410-140485-3	IG29X14.D	08/29/2023 22:18
HD-COD-SW-9-0/1-0	410-140485-4	IG29X15.D	08/29/2023 22:39
HD-COD-SW-13-0/1-0	410-140485-5	IG29X16.D	08/29/2023 23:00
HD-COD-SW-16-0/1-0	410-140485-7	IG29X17.D	08/29/2023 23:21
HD-COD-SW-26-0/1-0	410-140485-9	IG29X18.D	08/29/2023 23:42
HD-COD-SW-27-0/1-0	410-140485-10	IG29X19.D	08/30/2023 00:03
HD-COD-SW-28-0/1-0	410-140485-11	IG29X20.D	08/30/2023 00:25
HD-COD-SW-29-0/1-0	410-140485-12	IG29X21.D	08/30/2023 00:46
HD-COD-SW-17-0/1-0	410-140485-8	IG29X27.D	08/30/2023 02:51
HD-COD-SW-17-0/1-0 DL	410-140485-8 DL	IG29X28.D	08/30/2023 03:12
HD-QC1-0/1-1	410-140485-13	IG29X29.D	08/30/2023 03:33
HD-QC1-0/1-1 DL	410-140485-13 DL	IG29X30.D	08/30/2023 03:54

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

Lab Name: Eurofins Lancaster Laboratories  
Environment Testing, LLC

Job No.: 410-140485-1

SDG No.:

Lab File ID: IU19T01.D

BFB Injection Date: 06/19/2023

Instrument ID: 19930

BFB Injection Time: 14:12

Analysis Batch No.: 388102

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.2	
75	30.0 - 60.0 % of mass 95	45.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	94.5	
175	5.0 - 9.0 % of mass 174	7.2	(7.6) 1
176	95.0 - 101.0 % of mass 174	93.5	(98.9) 1
177	5.0 - 9.0 % of mass 176	6.1	(6.5) 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 410-388102/13	IU19X12.D	06/19/2023	18:19
	IC 410-388102/14	IU19X13.D	06/19/2023	18:40
	IC 410-388102/15	IU19X14.D	06/19/2023	19:01
	IC 410-388102/16	IU19X15.D	06/19/2023	19:22
	IC 410-388102/17	IU19X16.D	06/19/2023	19:42
	ICIS 410-388102/18	IU19X17.D	06/19/2023	20:03
	IC 410-388102/19	IU19X18.D	06/19/2023	20:25
	ICV 410-388102/21	IU19X20.D	06/19/2023	21:07

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

Lab Name: Eurofins Lancaster Laboratories  
Environment Testing, LLC

Job No.: 410-140485-1

SDG No.:

Lab File ID: IG29T01.D

BFB Injection Date: 08/29/2023

Instrument ID: 19930

BFB Injection Time: 17:32

Analysis Batch No.: 413930

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.9	
75	30.0 - 60.0 % of mass 95	48.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.9	(1.1) 1
174	Greater than 50% of mass 95	88.6	
175	5.0 - 9.0 % of mass 174	6.9	(7.8) 1
176	95.0 - 101.0 % of mass 174	86.7	(97.8) 1
177	5.0 - 9.0 % of mass 176	5.7	(6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-413930/3	IG29X02.D	08/29/2023	18:06
	LCS 410-413930/4	IG29X03.D	08/29/2023	18:26
	MB 410-413930/6	IG29X05.D	08/29/2023	19:09
HD-QC1-0/1-2	410-140485-14	IG29X07.D	08/29/2023	19:51
HD-COD-SW-15-0/1-0	410-140485-6	IG29X08.D	08/29/2023	20:12
HD-COD-SW-15-0/1-0 MS MS	410-140485-6 MS	IG29X09.D	08/29/2023	20:33
HD-COD-SW-15-0/1-0 MSD MSD	410-140485-6 MSD	IG29X10.D	08/29/2023	20:54
HD-COD-SW-6-0/1-0	410-140485-1	IG29X12.D	08/29/2023	21:36
HD-COD-SW-7-0/1-0	410-140485-2	IG29X13.D	08/29/2023	21:57
HD-COD-SW-8-0/1-0	410-140485-3	IG29X14.D	08/29/2023	22:18
HD-COD-SW-9-0/1-0	410-140485-4	IG29X15.D	08/29/2023	22:39
HD-COD-SW-13-0/1-0	410-140485-5	IG29X16.D	08/29/2023	23:00
HD-COD-SW-16-0/1-0	410-140485-7	IG29X17.D	08/29/2023	23:21
HD-COD-SW-26-0/1-0	410-140485-9	IG29X18.D	08/29/2023	23:42
HD-COD-SW-27-0/1-0	410-140485-10	IG29X19.D	08/30/2023	0:03
HD-COD-SW-28-0/1-0	410-140485-11	IG29X20.D	08/30/2023	0:25
HD-COD-SW-29-0/1-0	410-140485-12	IG29X21.D	08/30/2023	0:46
HD-COD-SW-17-0/1-0	410-140485-8	IG29X27.D	08/30/2023	2:51
HD-COD-SW-17-0/1-0 DL	410-140485-8 DL	IG29X28.D	08/30/2023	3:12
HD-QC1-0/1-1	410-140485-13	IG29X29.D	08/30/2023	3:33
HD-QC1-0/1-1 DL	410-140485-13 DL	IG29X30.D	08/30/2023	3:54

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

Lab Name: Eurofins Lancaster Laboratories      Job No.: 410-140485-1  
 Environment Testing, LLC

SDG No.:

Sample No.: ICIS 410-388102/18      Date Analyzed: 06/19/2023 20:03

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

Lab File ID (Standard): IU19X17.D      Heated Purge: (Y/N) N

Calibration ID: 51353

	TBAd10		FB		CBZd5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	130775	3.98	1807671	7.45	1439976	10.99
UPPER LIMIT	261550	4.48	3615342	7.95	2879952	11.49
LOWER LIMIT	65388	3.48	903836	6.95	719988	10.49
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 410-388102/21	143904	3.96	1909555	7.45	1501017	10.99
CCVIS 410-413930/3	116996	3.96	1563852	7.45	1242413	10.98

TBAd10 = t-Butyl alcohol-d10 (IS)

FB = Fluorobenzene (IS)

CBZd5 = Chlorobenzene-d5 (IS)

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

RT Limit = ± 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.: 410-140485-1  
Environment Testing, LLC

SDG No.: \_\_\_\_\_

Sample No.: ICIS 410-388102/18 Date Analyzed: 06/19/2023 20:03

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

Lab File ID (Standard): IU19X17.D Heated Purge: (Y/N) N

Calibration ID: 51353

	DCBd4		#	RT #	#	RT #
	AREA #	RT #				
INITIAL CALIBRATION MID-POINT	884528	12.88				
UPPER LIMIT	1769056	13.38				
LOWER LIMIT	442264	12.38				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 410-388102/21		914425	12.88			
CCVIS 410-413930/3		760385	12.87			

DCBd4 = 1,4-Dichlorobenzene-d4

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

# Column used to flag values outside QC limits



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

Lab Name: Eurofins Lancaster Laboratories  
Environment Testing, LLC

Job No.: 410-140485-1

SDG No.:

Sample No.: CCVIS 410-413930/3

Date Analyzed: 08/29/2023 18:06

Instrument ID: 19930

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

Lab File ID (Standard): IG29X02.D

Heated Purge: (Y/N) N

Calibration ID: 51353

	TBA <sub>d</sub> 10		FB		CBZ <sub>d</sub> 5		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	116996	3.96	1563852	7.45	1242413	10.98	
UPPER LIMIT	233992	4.46	3127704	7.95	2484826	11.48	
LOWER LIMIT	58498	3.46	781926	6.95	621207	10.48	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-413930/4	127596	3.98	1577725	7.45	1251933	10.98	
MB 410-413930/6	115366	3.99	1767248	7.46	1413465	10.98	
410-140485-14	HD-QC1-0/1-2	107389	3.99	1431799	7.46	1129776	10.98
410-140485-6	HD-COD-SW-15-0/1-0	114998	3.98	1451118	7.45	1179030	10.98
410-140485-6 MS	HD-COD-SW-15-0/1-0 MS MS	110073	3.97	1560510	7.45	1228515	10.98
410-140485-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	121409	4.00	1665758	7.46	1302497	10.98
410-140485-1	HD-COD-SW-6-0/1-0	112758	3.97	1451225	7.45	1160596	10.98
410-140485-2	HD-COD-SW-7-0/1-0	109922	3.98	1422333	7.46	1140641	10.98
410-140485-3	HD-COD-SW-8-0/1-0	97670	4.00	1462460	7.46	1169629	10.98
410-140485-4	HD-COD-SW-9-0/1-0	105364	3.99	1387426	7.46	1108949	10.98
410-140485-5	HD-COD-SW-13-0/1-0	99921	3.99	1433352	7.46	1166394	10.98
410-140485-7	HD-COD-SW-16-0/1-0	97724	4.00	1370624	7.46	1105250	10.98
410-140485-9	HD-COD-SW-26-0/1-0	107537	3.98	1491680	7.46	1217529	10.98
410-140485-10	HD-COD-SW-27-0/1-0	103925	3.98	1371830	7.46	1109986	10.98
410-140485-11	HD-COD-SW-28-0/1-0	85815	3.98	1376541	7.46	1108656	10.98
410-140485-12	HD-COD-SW-29-0/1-0	92130	3.97	1326654	7.45	1076066	10.98
410-140485-8	HD-COD-SW-17-0/1-0	107322	4.00	1422947	7.46	1171048	10.98
410-140485-8 DL	HD-COD-SW-17-0/1-0 DL	111582	3.98	1436303	7.45	1173826	10.98
410-140485-13	HD-QC1-0/1-1	104039	3.99	1401718	7.46	1155689	10.98
410-140485-13 DL	HD-QC1-0/1-1 DL	111610	3.99	1399414	7.46	1129127	10.98

TBA<sub>d</sub>10 = t-Butyl alcohol-d<sub>10</sub> (IS)

TBA<sub>d</sub>10 = t-Butyl alcohol-d<sub>10</sub> (IS)

FB = Fluorobenzene (IS)

FB = Fluorobenzene (IS)

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

CBZ<sub>d</sub>5 = Chlorobenzene-d<sub>5</sub> (IS)

RT Limit = ± 0.5 minutes of internal standard RT

CBZ<sub>d</sub>5 = Chlorobenzene-d<sub>5</sub> (IS)

# Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories      Job No.: 410-140485-1  
 Environment Testing, LLC

SDG No.: \_\_\_\_\_

Sample No.: CCVIS 410-413930/3      Date Analyzed: 08/29/2023 18:06

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

Lab File ID (Standard): IG29X02.D      Heated Purge: (Y/N) N

Calibration ID: 51353

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		760385	12.87				
UPPER LIMIT		1520770	13.37				
LOWER LIMIT		380193	12.37				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-413930/4		756396	12.87				
MB 410-413930/6		788883	12.88				
410-140485-14	HD-QC1-0/1-2	640726	12.88				
410-140485-6	HD-COD-SW-15-0/1-0	646498	12.88				
410-140485-6 MS	HD-COD-SW-15-0/1-0 MS MS	735577	12.87				
410-140485-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	780928	12.88				
410-140485-1	HD-COD-SW-6-0/1-0	655335	12.88				
410-140485-2	HD-COD-SW-7-0/1-0	652224	12.88				
410-140485-3	HD-COD-SW-8-0/1-0	656669	12.88				
410-140485-4	HD-COD-SW-9-0/1-0	634365	12.88				
410-140485-5	HD-COD-SW-13-0/1-0	651126	12.88				
410-140485-7	HD-COD-SW-16-0/1-0	620829	12.88				
410-140485-9	HD-COD-SW-26-0/1-0	669850	12.88				
410-140485-10	HD-COD-SW-27-0/1-0	613832	12.88				
410-140485-11	HD-COD-SW-28-0/1-0	629103	12.88				
410-140485-12	HD-COD-SW-29-0/1-0	603481	12.88				
410-140485-8	HD-COD-SW-17-0/1-0	644733	12.88				
410-140485-8 DL	HD-COD-SW-17-0/1-0 DL	648799	12.88				
410-140485-13	HD-QC1-0/1-1	635354	12.88				
410-140485-13 DL	HD-QC1-0/1-1 DL	640356	12.88				

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.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-1

Matrix: Water

Lab File ID: IG29X12.D

Analysis Method: 8260D

Date Collected: 08/24/2023 10:58

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 21:36

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.: 413930

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	^c cn	5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.9	J cn	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.14	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
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.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-1

Matrix: Water

Lab File ID: IG29X12.D

Analysis Method: 8260D

Date Collected: 08/24/2023 10:58

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 21:36

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.: 413930

Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		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\20230829-92765.b\IG29X12.D  
 Lims ID: 410-140485-A-1  
 Client ID: HD-COD-SW-6-0/1-0  
 Sample Type: Client  
 Inject. Date: 29-Aug-2023 21:36:30 ALS Bottle#: 12 Worklist Smp#: 13  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-013  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:14:58 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:14:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.038	2.044	-0.006	95	4943	0.0837	
5 Vinyl chloride	62		2.148				ND	
7 Bromomethane	94		2.471				ND	7
8 Chloroethane	64		2.544				ND	
15 1,1-Dichloroethene	96		3.342				ND	
16 Acetone	43	3.391	3.367	0.024	63	10023	1.86	
20 Carbon disulfide	76	3.617	3.635	-0.018	94	4861	0.0461	
25 Methylene Chloride	84		3.964				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.971	3.964	0.007	27	112758	50.0	
29 Methyl tert-butyl ether	73		4.348				ND	
30 trans-1,2-Dichloroethene	96		4.361				ND	
32 1,1-Dichloroethane	63		5.019				ND	
38 2-Butanone (MEK)	43		5.824				ND	
39 cis-1,2-Dichloroethene	96	5.867	5.860	0.007	77	6901	0.1432	
46 Chlorobromomethane	128		6.196				ND	
48 Chloroform	83	6.348	6.342	0.006	90	4480	0.0584	
\$ 49 Dibromofluoromethane (Surr)	113	6.562	6.561	0.001	94	405175	10.9	
50 1,1,1-Trichloroethane	97		6.567				ND	
54 Carbon tetrachloride	117		6.787				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.013	7.012	0.001	63	81158	11.0	
57 Benzene	78		7.049				ND	
58 1,2-Dichloroethane	62		7.116				ND	
* 61 Fluorobenzene (IS)	96	7.452	7.451	0.001	99	1451225	10.0	
64 Trichloroethene	95	7.952	7.933	0.019	96	5587	0.1172	
66 1,2-Dichloropropane	63		8.262				ND	
71 Dichlorobromomethane	83		8.616				ND	
76 cis-1,3-Dichloropropene	75		9.177				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.353				ND	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.494	0.000	94	1484715	9.95	
79 Toluene	92		9.567				ND	7
97 trans-1,3-Dichloropropene	75		9.841				ND	
100 1,1,2-Trichloroethane	97		10.048				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166		10.134				ND	7
103 2-Hexanone	43		10.262				ND	
105 Chlorodibromomethane	129		10.433				ND	
106 Ethylene Dibromide	107		10.542				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.981	10.981	0.000	85	1160596	10.0	
109 Chlorobenzene	112		11.006				ND	
111 1,1,1,2-Tetrachloroethane	131		11.091				ND	
112 Ethylbenzene	91		11.091				ND	
113 m-Xylene & p-Xylene	106		11.213				ND	7
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.542				ND	
115 Styrene	104		11.560				ND	
116 Bromoform	173		11.719				ND	7
\$ 120 4-Bromofluorobenzene (Surr)	95	11.993	11.987	0.006	95	523101	9.30	
121 1,1,2,2-Tetrachloroethane	83		12.091				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.877	12.871	0.006	94	655335	10.0	

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

**Reagents:**

MSV\_LLcentISS\_00009

Amount Added: 5.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X12.D

Injection Date: 29-Aug-2023 21:36:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-140485-A-1

Lab Sample ID: 410-140485-1

Worklist Smp#: 13

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

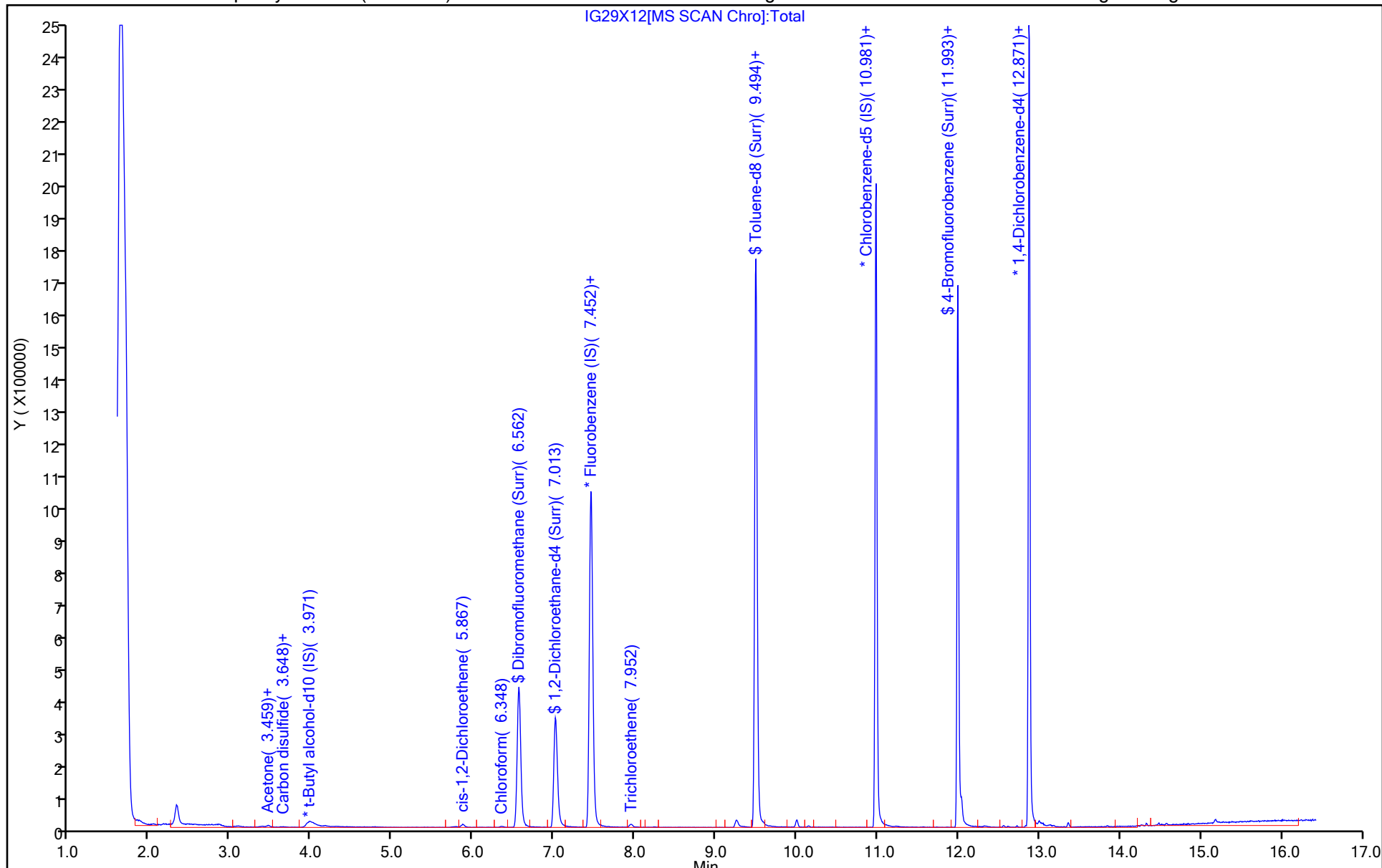
ALS Bottle#: 12

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\20230829-92765.b\IG29X12.D  
 Lims ID: 410-140485-A-1  
 Client ID: HD-COD-SW-6-0/1-0  
 Sample Type: Client  
 Inject. Date: 29-Aug-2023 21:36:30 ALS Bottle#: 12 Worklist Smp#: 13  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-013  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:14:58 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:14:58

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	10.9	108.70
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	11.0	109.81
\$ 78 Toluene-d8 (Surr)	10.0	9.95	99.50
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.30	93.04



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X12.D

Injection Date: 29-Aug-2023 21:36:30

Instrument ID: 19930

Lims ID: 410-140485-A-1

Lab Sample ID: 410-140485-1

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

Operator ID: gaw91131

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

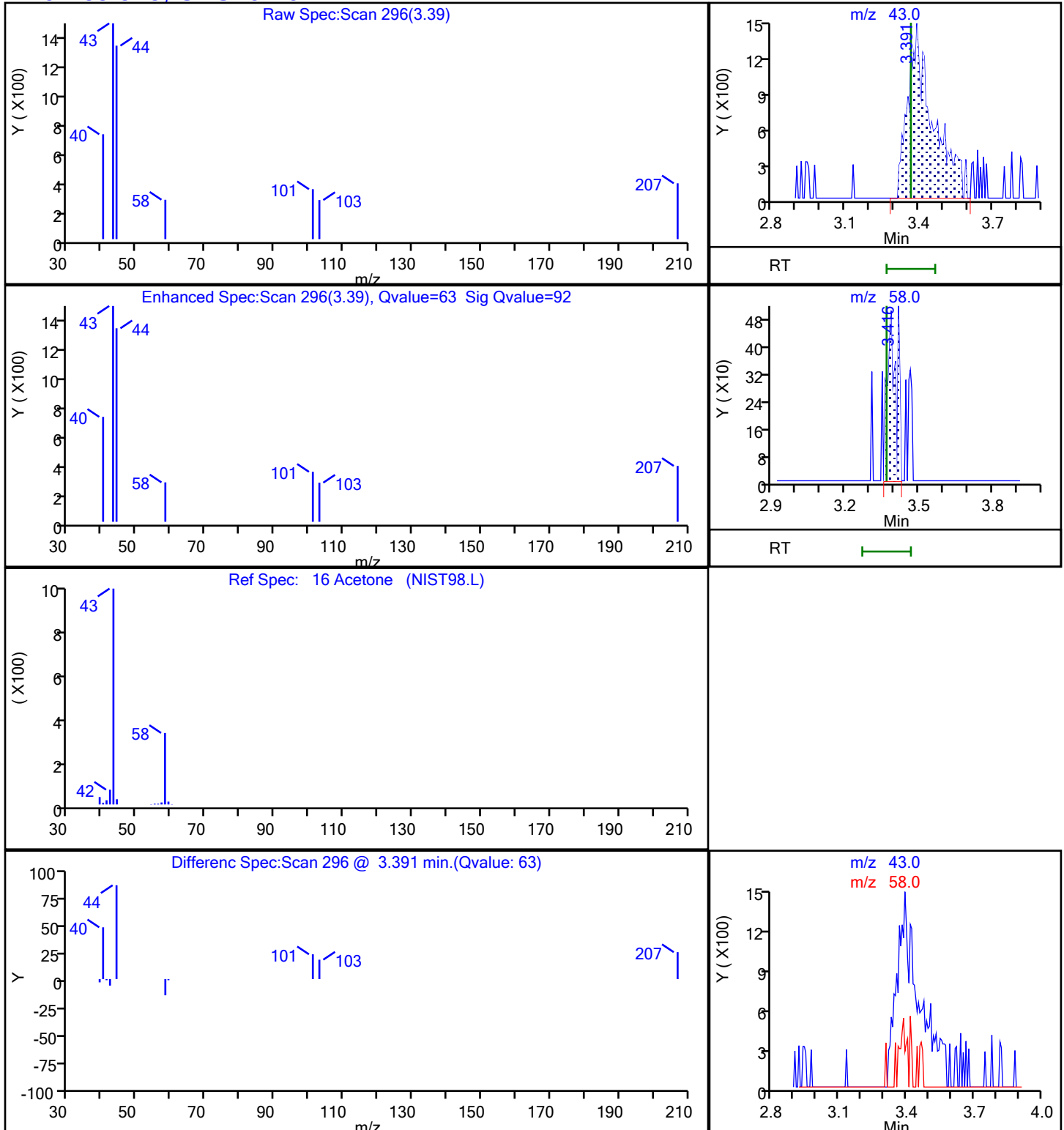
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

16 Acetone, CAS: 67-64-1



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X12.D

Injection Date: 29-Aug-2023 21:36:30

Instrument ID: 19930

Lims ID: 410-140485-A-1

Lab Sample ID: 410-140485-1

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

Operator ID: gaw91131

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

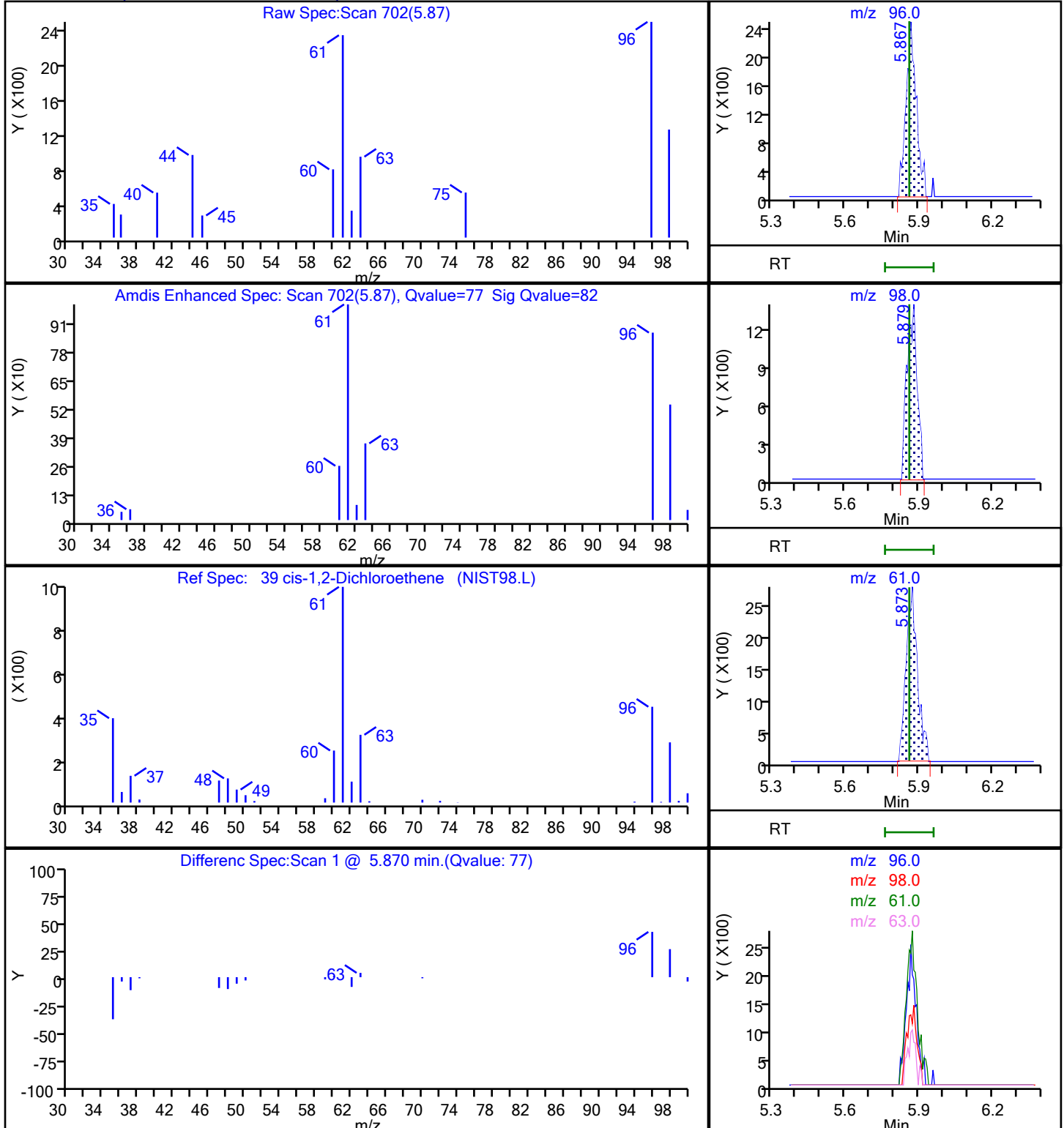
Method: 8260 25ml HP31

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\20230829-92765.b\IG29X12.D

Injection Date: 29-Aug-2023 21:36:30

Instrument ID: 19930

Lims ID: 410-140485-A-1

Lab Sample ID: 410-140485-1

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

Operator ID: gaw91131

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

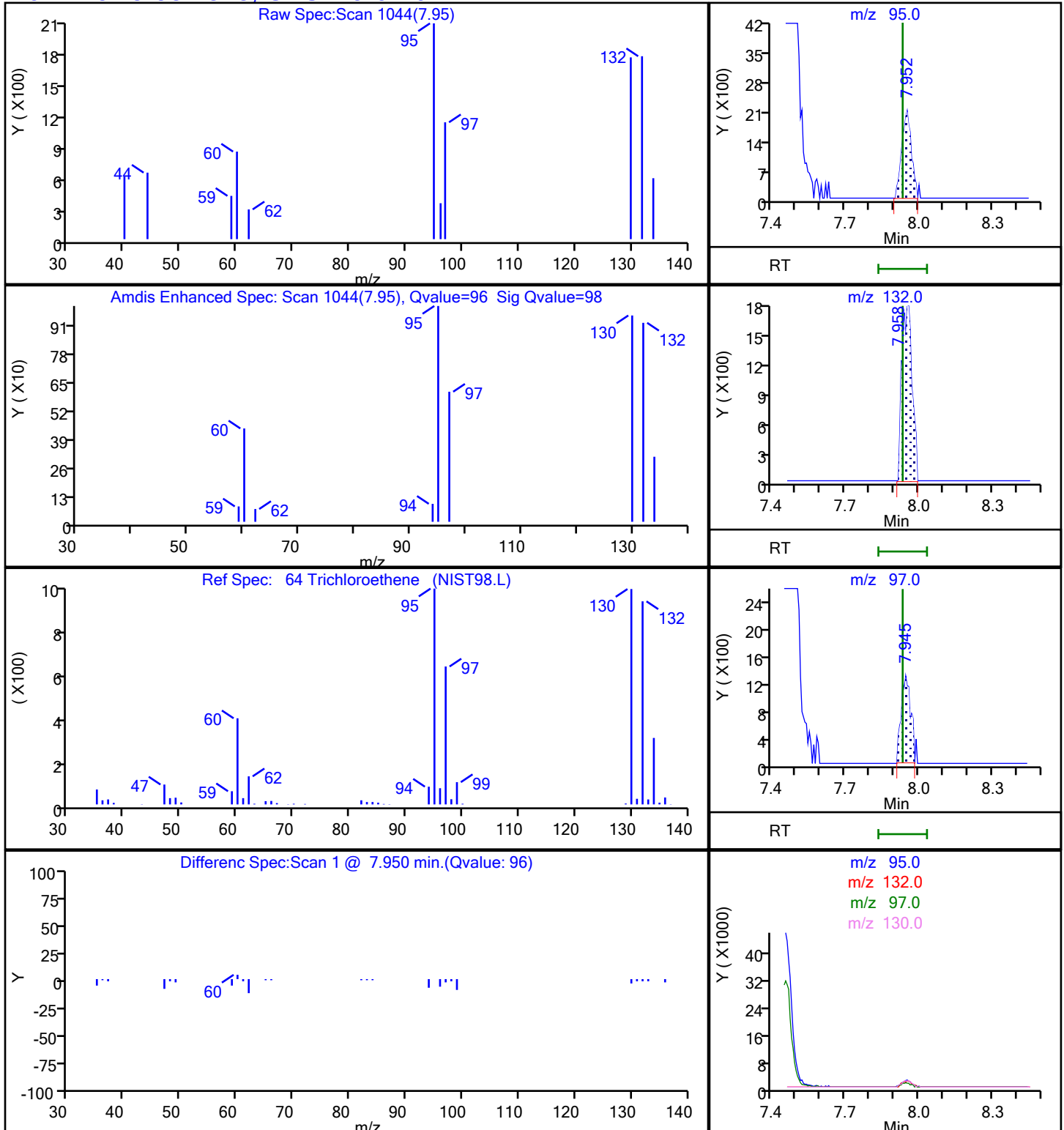
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

### 64 Trichloroethene, CAS: 79-01-6





Eurofins Lancaster Laboratories Environment Testing, LLC

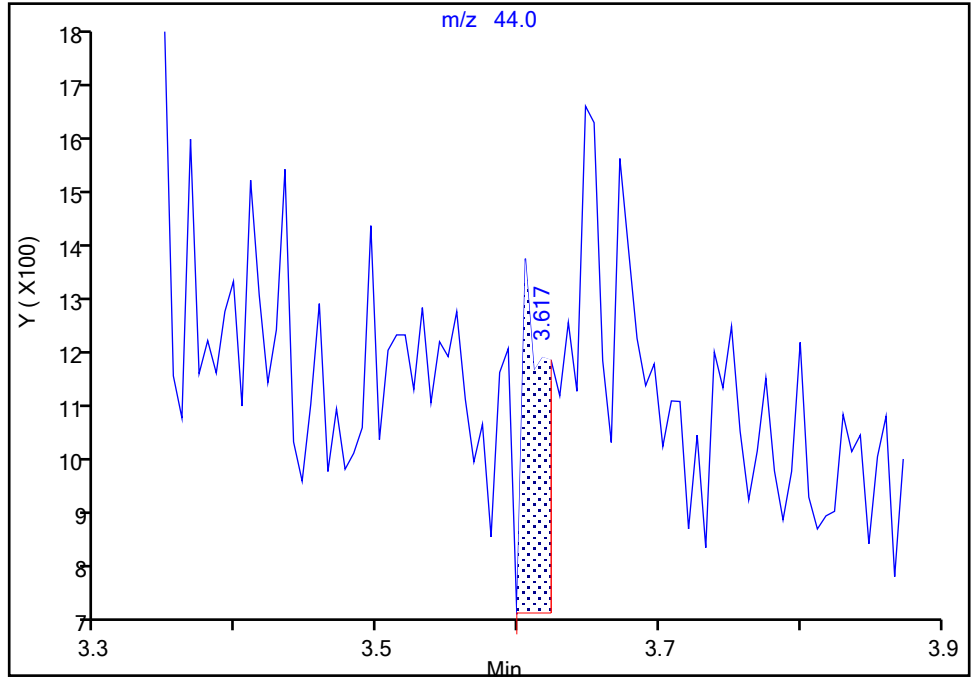
Data File:	\\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X12.D		
Injection Date:	29-Aug-2023 21:36:30	Instrument ID:	19930
Lims ID:	410-140485-A-1	Lab Sample ID:	410-140485-1
Client ID:	HD-COD-SW-6-0/1-0		
Operator ID:	gaw91131	ALS Bottle#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D
Column:	Rxi-624Sil MS Capillary Column (0.25mm ID)	Detector:	MS Quad
		Worklist Smp#:	13

**20 Carbon disulfide, CAS: 75-15-0**

Signal: 3

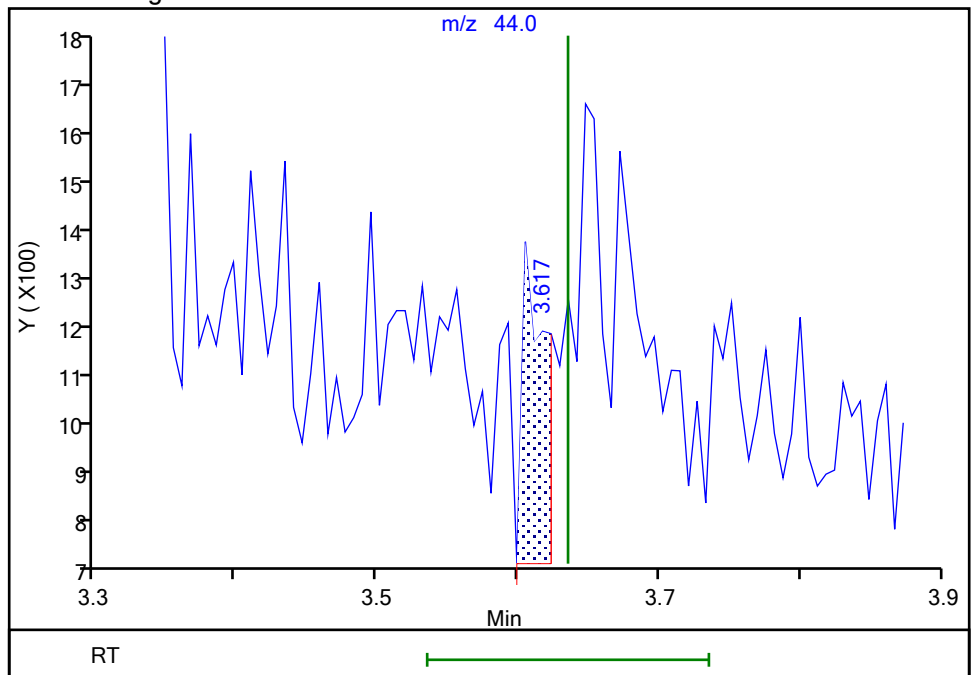
RT: 3.62  
 Area: 713  
 Amount: 0.046058  
 Amount Units: ug/l

Processing Integration Results



RT: 3.62  
 Area: 713  
 Amount: 0.046058  
 Amount Units: ug/l

Manual Integration Results



Reviewer: kaewrungrueangp, 30-Aug-2023 14:14:40 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.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-2

Matrix: Water

Lab File ID: IG29X13.D

Analysis Method: 8260D

Date Collected: 08/24/2023 11:40

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 21:57

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.: 413930

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	^c cn	5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.9	J cn	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.097	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.20	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	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.: 410-140485-1  
 Environment Testing, LLC

SDG No.:

Client Sample ID: HD-COD-SW-7-0/1-0      Lab Sample ID: 410-140485-2

Matrix: Water      Lab File ID: IG29X13.D

Analysis Method: 8260D      Date Collected: 08/24/2023 11:40

Sample wt/vol: 25 (mL)      Date Analyzed: 08/29/2023 21:57

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.: 413930      Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.19	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		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\20230829-92765.b\IG29X13.D  
 Lims ID: 410-140485-A-2  
 Client ID: HD-COD-SW-7-0/1-0  
 Sample Type: Client  
 Inject. Date: 29-Aug-2023 21:57:30 ALS Bottle#: 13 Worklist Smp#: 14  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-014  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:14:58 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:15:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.038	2.044	-0.006	1	5202	0.0899	
5 Vinyl chloride	62		2.148				ND	7
7 Bromomethane	94		2.471				ND	7
8 Chloroethane	64		2.544				ND	
15 1,1-Dichloroethene	96		3.342				ND	
16 Acetone	43	3.391	3.367	0.024	87	10204	1.94	
20 Carbon disulfide	76	3.641	3.635	0.006	97	5374	0.0520	
25 Methylene Chloride	84		3.964				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.977	3.964	0.013	29	109922	50.0	
29 Methyl tert-butyl ether	73		4.348				ND	
30 trans-1,2-Dichloroethene	96		4.361				ND	
32 1,1-Dichloroethane	63		5.019				ND	
38 2-Butanone (MEK)	43		5.824				ND	
39 cis-1,2-Dichloroethene	96	5.879	5.860	0.019	78	9493	0.2010	
46 Chlorobromomethane	128		6.196				ND	
48 Chloroform	83	6.360	6.342	0.018	73	7273	0.0968	
\$ 49 Dibromofluoromethane (Surr)	113	6.568	6.561	0.007	94	399987	10.9	
50 1,1,1-Trichloroethane	97		6.567				ND	
54 Carbon tetrachloride	117		6.787				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.012	0.007	63	79246	10.9	
57 Benzene	78		7.049				ND	
58 1,2-Dichloroethane	62		7.116				ND	
* 61 Fluorobenzene (IS)	96	7.458	7.451	0.007	99	1422333	10.0	
64 Trichloroethene	95	7.945	7.933	0.012	95	8821	0.1888	
66 1,2-Dichloropropane	63		8.262				ND	
71 Dichlorobromomethane	83		8.616				ND	
76 cis-1,3-Dichloropropene	75		9.177				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.353				ND	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.494	0.000	94	1469284	10.0	
79 Toluene	92		9.567				ND	7
97 trans-1,3-Dichloropropene	75		9.841				ND	
100 1,1,2-Trichloroethane	97		10.048				ND	



Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.146	10.134	0.012	88	2904	0.0481	
103 2-Hexanone	43		10.262				ND	
105 Chlorodibromomethane	129		10.433				ND	
106 Ethylene Dibromide	107		10.542				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.981	10.981	0.000	85	1140641	10.0	
109 Chlorobenzene	112		11.006				ND	
111 1,1,1,2-Tetrachloroethane	131		11.091				ND	
112 Ethylbenzene	91		11.091				ND	
113 m-Xylene & p-Xylene	106		11.213				ND	7
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.542				ND	
115 Styrene	104		11.560				ND	
116 Bromoform	173		11.719				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.993	11.987	0.006	93	515777	9.33	
121 1,1,2,2-Tetrachloroethane	83		12.091				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.877	12.871	0.006	94	652224	10.0	

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

**Reagents:**

MSV\_LLcentISS\_00009

Amount Added: 5.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X13.D

Injection Date: 29-Aug-2023 21:57:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-140485-A-2

Lab Sample ID: 410-140485-2

Worklist Smp#: 14

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

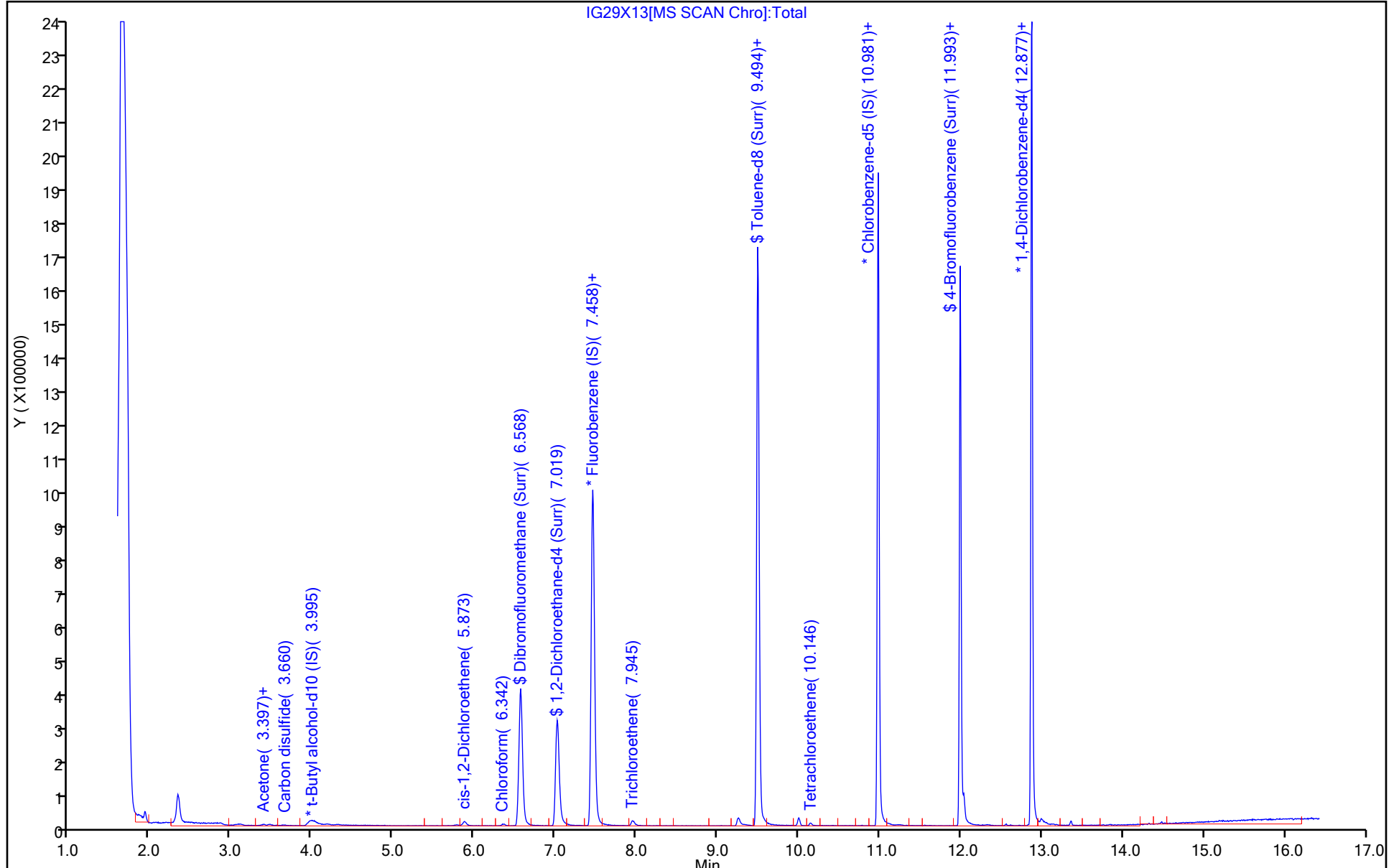
ALS Bottle#: 13

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\20230829-92765.b\IG29X13.D  
 Lims ID: 410-140485-A-2  
 Client ID: HD-COD-SW-7-0/1-0  
 Sample Type: Client  
 Inject. Date: 29-Aug-2023 21:57:30 ALS Bottle#: 13 Worklist Smp#: 14  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-014  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:14:58 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:15:27

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	10.9	109.48
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.9	109.40
\$ 78 Toluene-d8 (Surr)	10.0	10.0	100.19
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.33	93.34

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X13.D

Injection Date: 29-Aug-2023 21:57:30

Instrument ID: 19930

Lims ID: 410-140485-A-2

Lab Sample ID: 410-140485-2

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

Operator ID: gaw91131

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

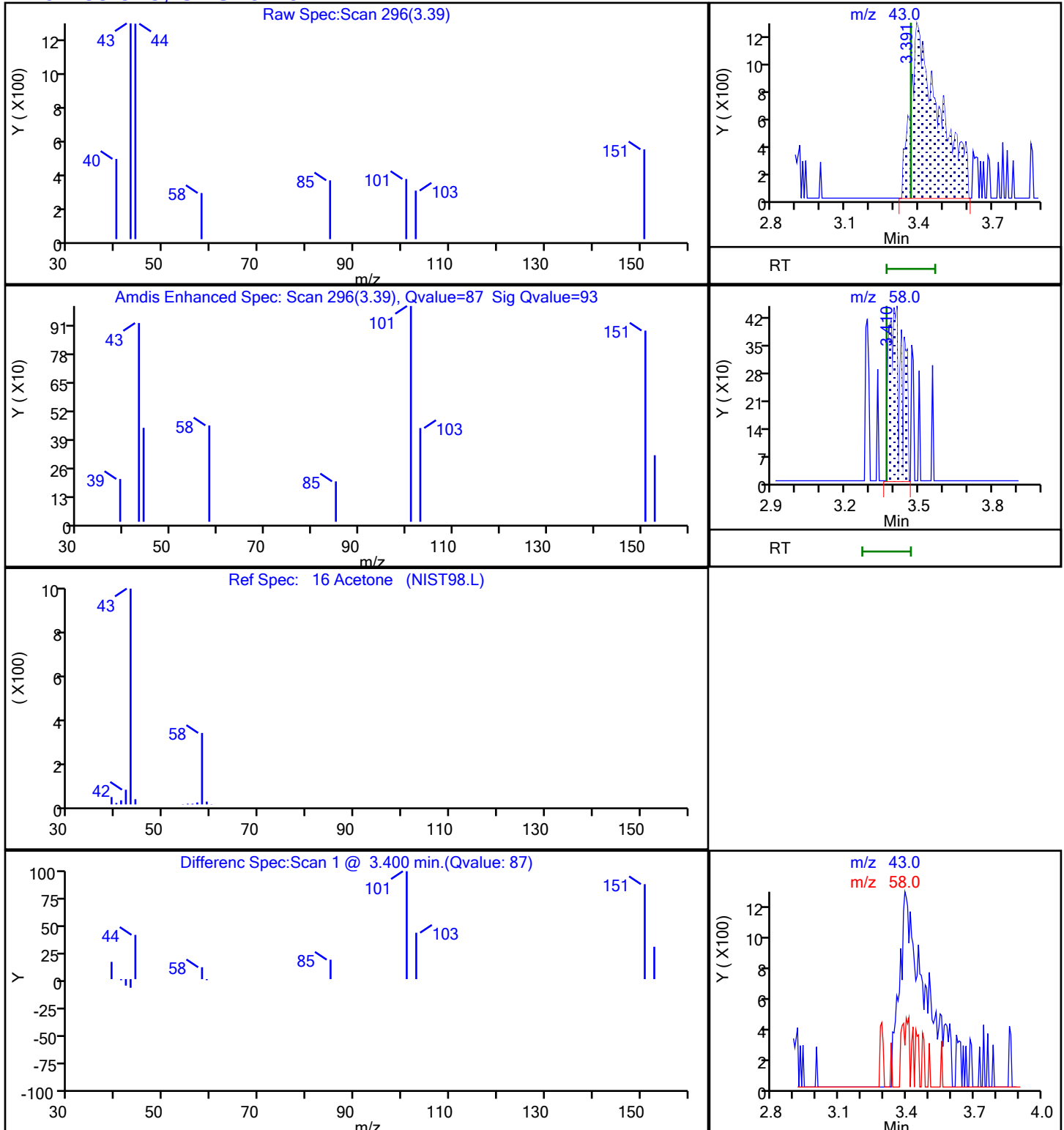
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

16 Acetone, CAS: 67-64-1



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X13.D

Injection Date: 29-Aug-2023 21:57:30

Instrument ID: 19930

Lims ID: 410-140485-A-2

Lab Sample ID: 410-140485-2

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

Operator ID: gaw91131

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

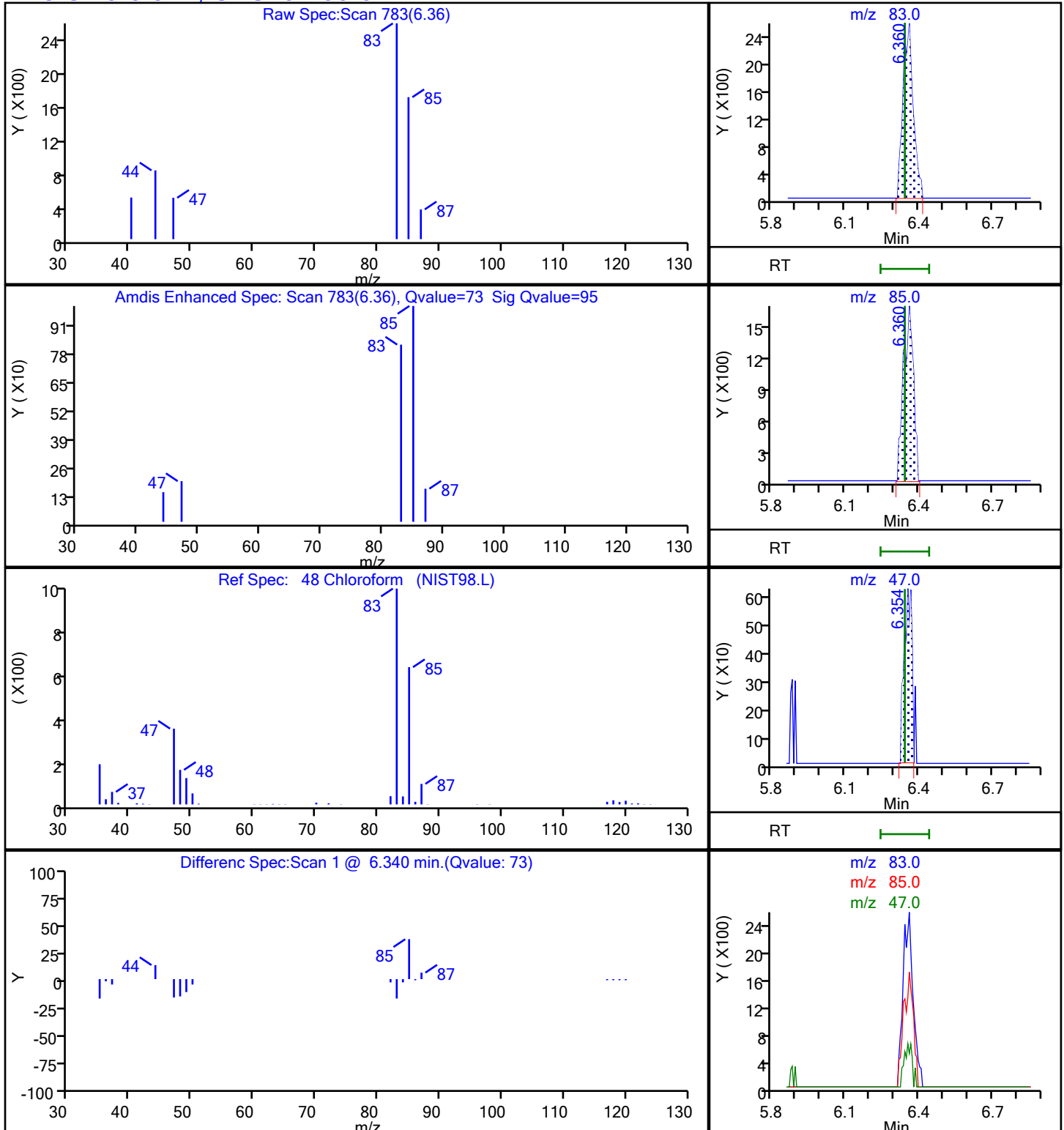
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

### 48 Chloroform, CAS: 67-66-3



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X13.D

Injection Date: 29-Aug-2023 21:57:30

Instrument ID: 19930

Lims ID: 410-140485-A-2

Lab Sample ID: 410-140485-2

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

Operator ID: gaw91131

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

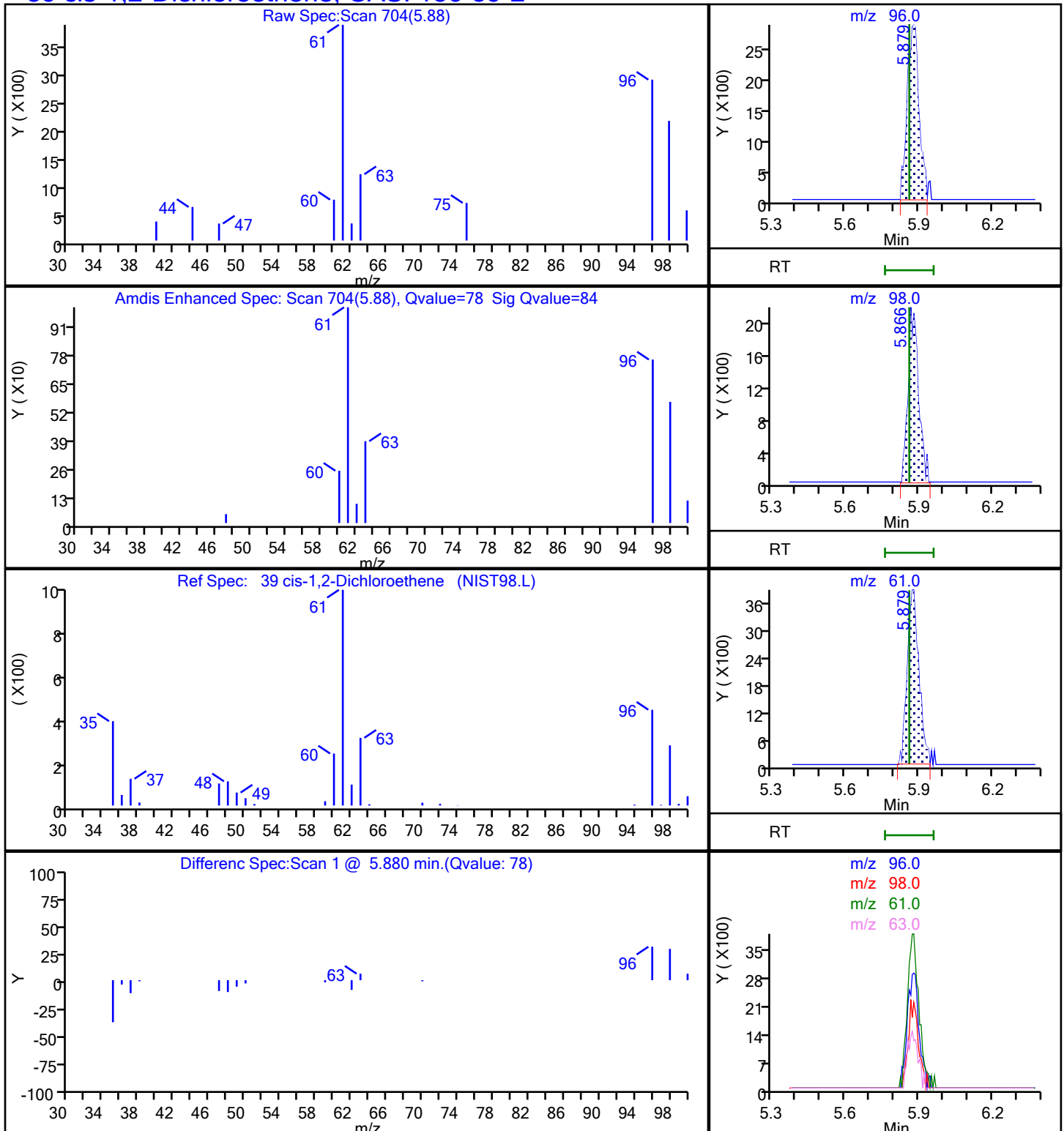
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

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



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X13.D

Injection Date: 29-Aug-2023 21:57:30

Instrument ID: 19930

Lims ID: 410-140485-A-2

Lab Sample ID: 410-140485-2

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

Operator ID: gaw91131

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

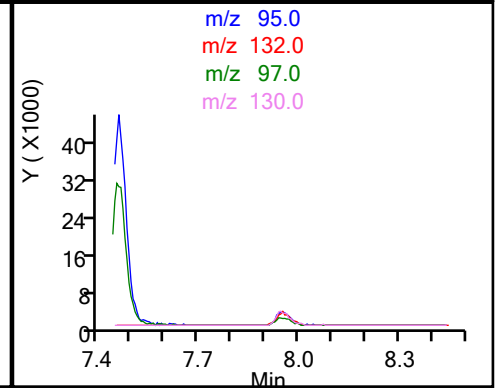
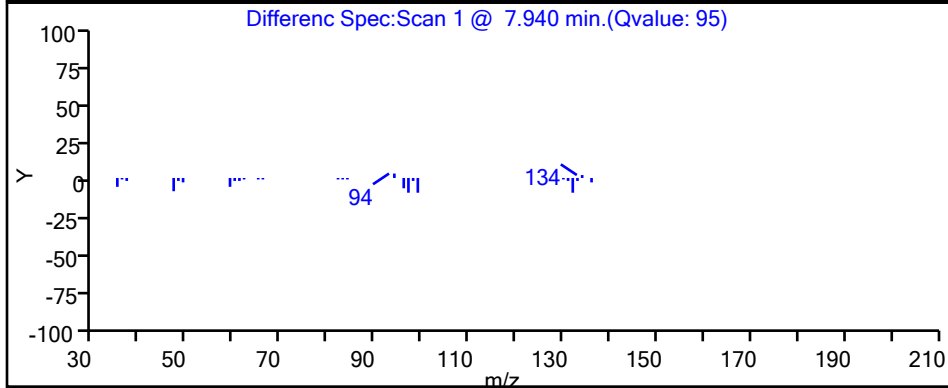
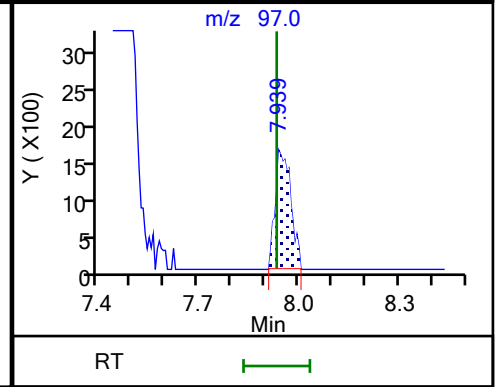
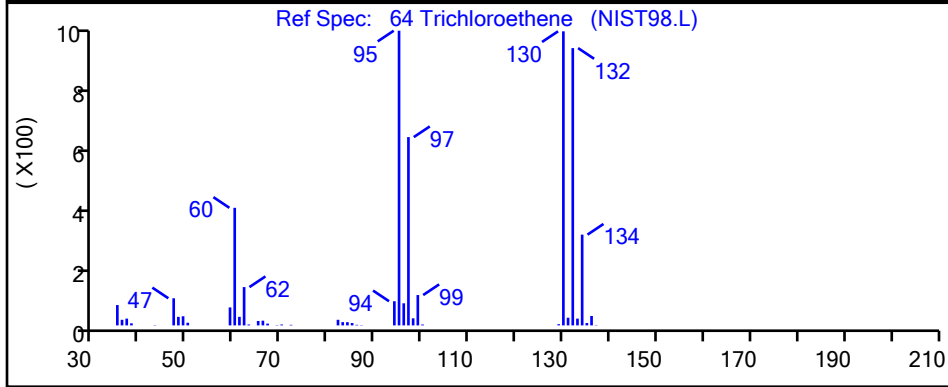
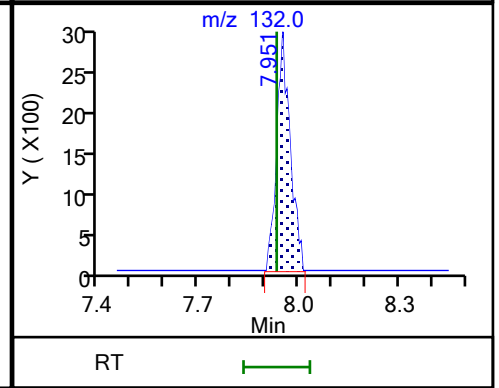
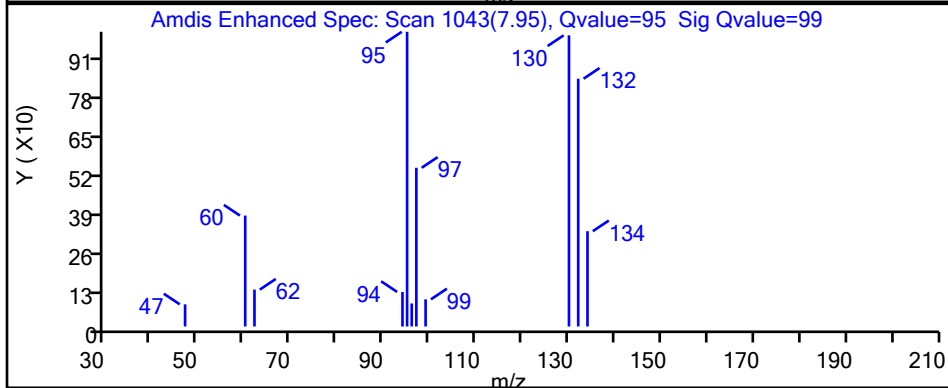
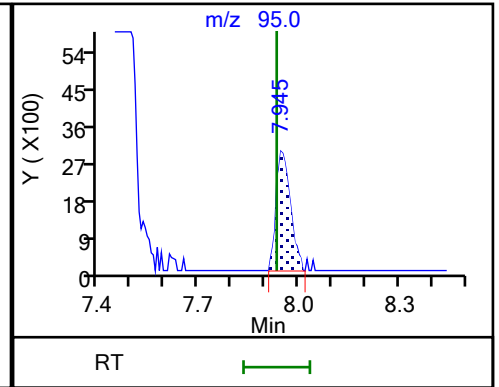
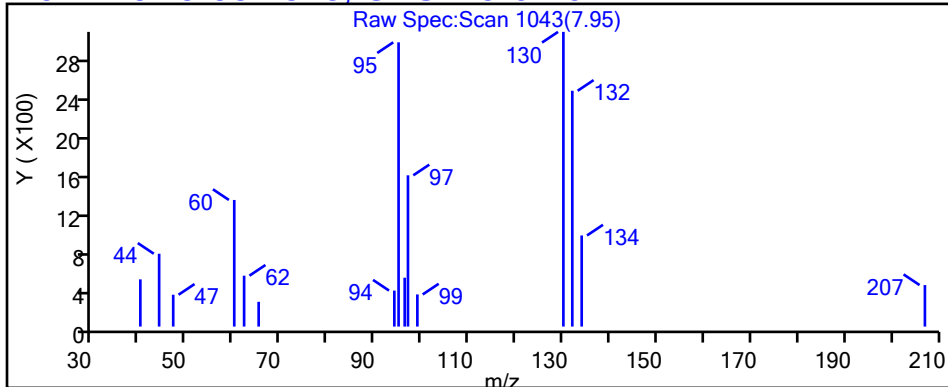
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

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.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-3

Matrix: Water

Lab File ID: IG29X14.D

Analysis Method: 8260D

Date Collected: 08/24/2023 09:07

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 22:18

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 413930

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	^c cn	5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	4.9	J cn	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.21	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.67		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.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-3

Matrix: Water

Lab File ID: IG29X14.D

Analysis Method: 8260D

Date Collected: 08/24/2023 09:07

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 22:18

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 413930

Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		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\20230829-92765.b\IG29X14.D  
 Lims ID: 410-140485-A-3  
 Client ID: HD-COD-SW-8-0/1-0  
 Sample Type: Client  
 Inject. Date: 29-Aug-2023 22:18:30 ALS Bottle#: 14 Worklist Smp#: 15  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-015  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:14:58 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:15:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.044				ND	
5 Vinyl chloride	62		2.148				ND	7
7 Bromomethane	94		2.471				ND	7
8 Chloroethane	64		2.544				ND	
15 1,1-Dichloroethene	96		3.342				ND	
16 Acetone	43	3.379	3.367	0.012	95	22800	4.88	
20 Carbon disulfide	76		3.635				ND	7
25 Methylene Chloride	84		3.964				ND	7
* 26 t-Butyl alcohol-d10 (IS)	65	3.995	3.964	0.031	27	97670	50.0	
29 Methyl tert-butyl ether	73		4.348				ND	
30 trans-1,2-Dichloroethene	96		4.361				ND	
32 1,1-Dichloroethane	63		5.019				ND	
38 2-Butanone (MEK)	43		5.824				ND	7
39 cis-1,2-Dichloroethene	96	5.873	5.860	0.013	76	10393	0.2140	
46 Chlorobromomethane	128		6.196				ND	
48 Chloroform	83	6.354	6.342	0.012	91	6322	0.0818	
\$ 49 Dibromofluoromethane (Surr)	113	6.561	6.561	0.000	94	406181	10.8	
50 1,1,1-Trichloroethane	97	6.574	6.567	0.007	35	3767	0.0522	
54 Carbon tetrachloride	117		6.787				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.012	0.007	63	79445	10.7	
57 Benzene	78		7.049				ND	
58 1,2-Dichloroethane	62		7.116				ND	
* 61 Fluorobenzene (IS)	96	7.458	7.451	0.007	99	1462460	10.0	
64 Trichloroethene	95	7.939	7.933	0.006	94	8175	0.1702	
66 1,2-Dichloropropane	63		8.262				ND	
71 Dichlorobromomethane	83		8.616				ND	
76 cis-1,3-Dichloropropene	75		9.177				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.353				ND	7
\$ 78 Toluene-d8 (Surr)	98	9.494	9.494	0.000	94	1516476	10.1	
79 Toluene	92		9.567				ND	7
97 trans-1,3-Dichloropropene	75		9.841				ND	
100 1,1,2-Trichloroethane	97		10.048				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.140	10.134	0.006	98	41666	0.6734	
103 2-Hexanone	43		10.262				ND	
105 Chlorodibromomethane	129		10.433				ND	
106 Ethylene Dibromide	107		10.542				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.981	10.981	0.000	85	1169629	10.0	
109 Chlorobenzene	112		11.006				ND	
111 1,1,1,2-Tetrachloroethane	131		11.091				ND	
112 Ethylbenzene	91		11.091				ND	
113 m-Xylene & p-Xylene	106		11.213				ND	7
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.542				ND	
115 Styrene	104		11.560				ND	
116 Bromoform	173		11.719				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.993	11.987	0.006	94	529317	9.34	
121 1,1,2,2-Tetrachloroethane	83		12.091				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.877	12.871	0.006	94	656669	10.0	

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

**Reagents:**

MSV\_LLcentISS\_00009

Amount Added: 5.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X14.D

Injection Date: 29-Aug-2023 22:18:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-140485-A-3

Lab Sample ID: 410-140485-3

Worklist Smp#: 15

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

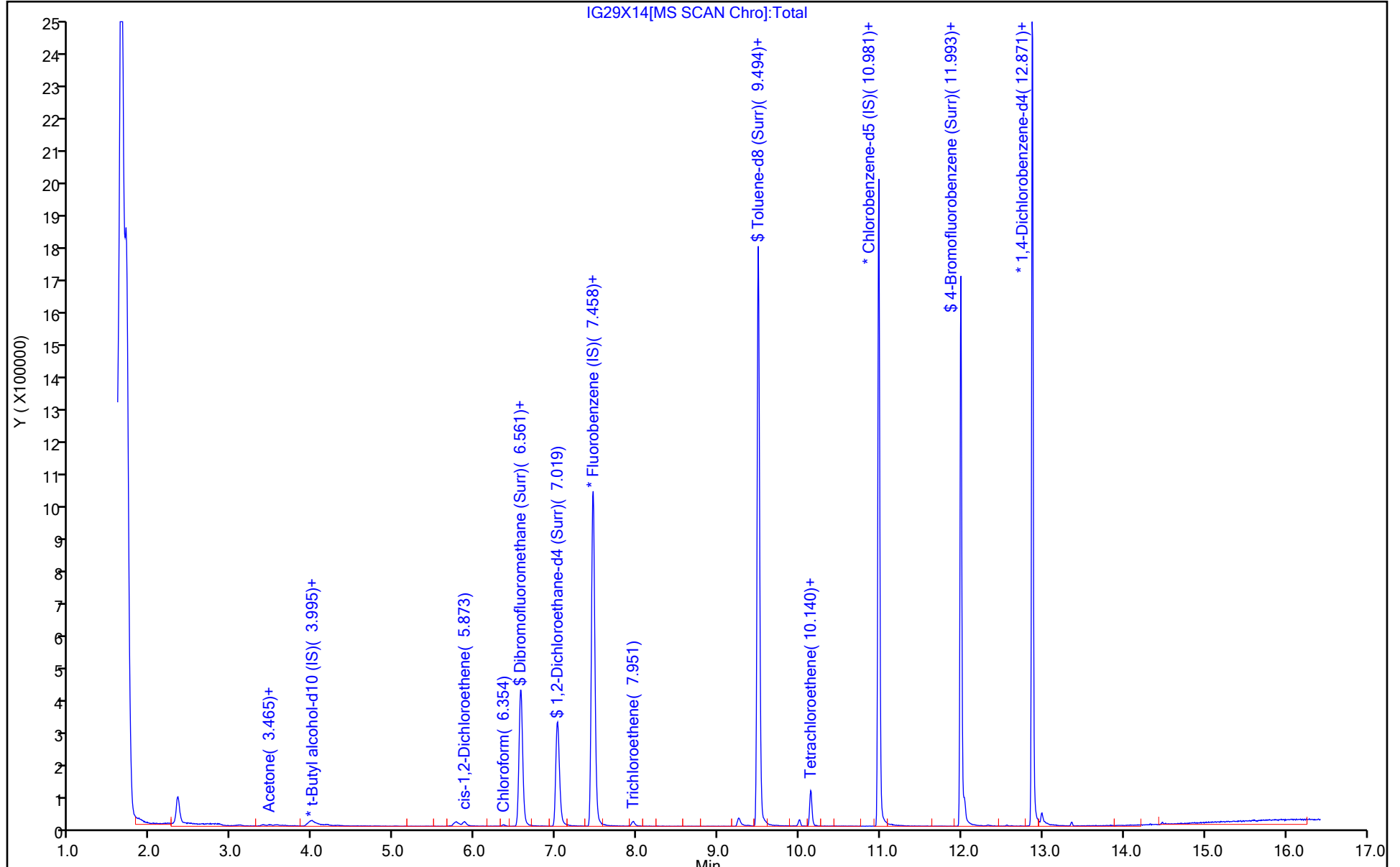
ALS Bottle#: 14

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\20230829-92765.b\IG29X14.D  
 Lims ID: 410-140485-A-3  
 Client ID: HD-COD-SW-8-0/1-0  
 Sample Type: Client  
 Inject. Date: 29-Aug-2023 22:18:30 ALS Bottle#: 14 Worklist Smp#: 15  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-015  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:14:58 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:15:53

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	10.8	108.13
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.7	106.66
\$ 78 Toluene-d8 (Surr)	10.0	10.1	100.85
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.34	93.42

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X14.D

Injection Date: 29-Aug-2023 22:18:30

Instrument ID: 19930

Lims ID: 410-140485-A-3

Lab Sample ID: 410-140485-3

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

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

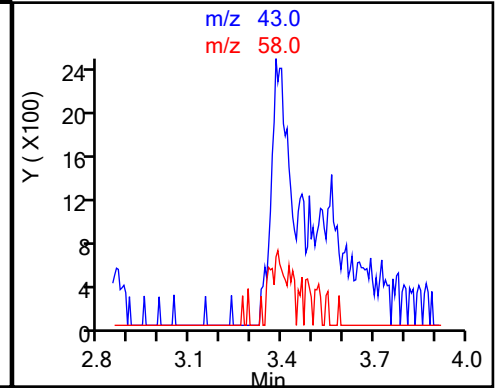
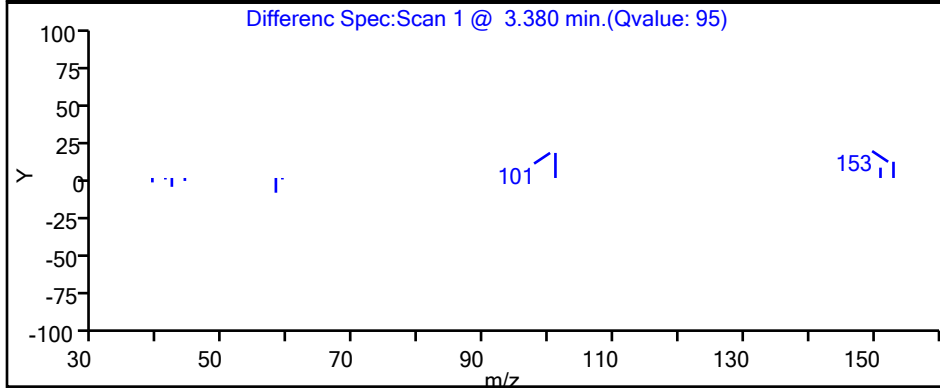
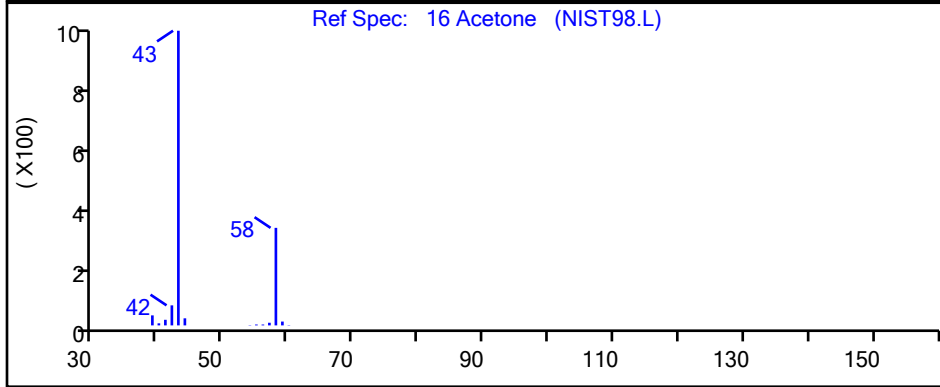
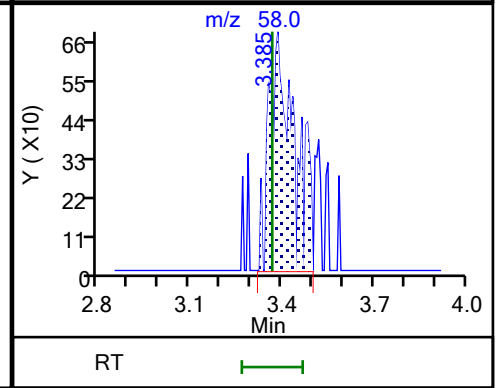
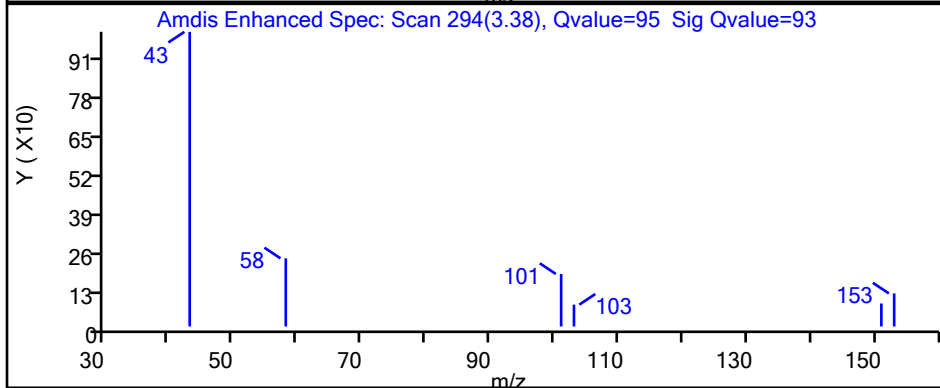
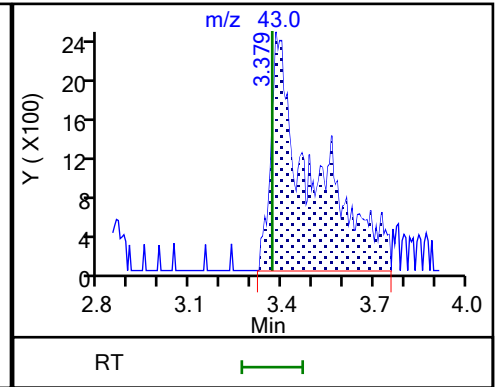
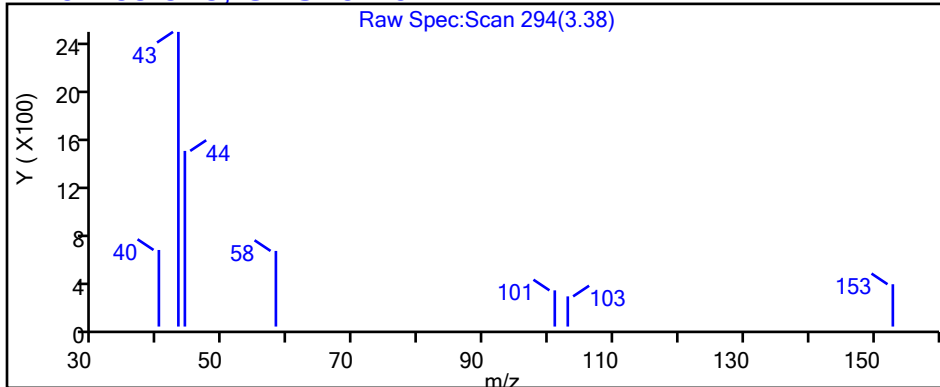
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

16 Acetone, CAS: 67-64-1



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X14.D

Injection Date: 29-Aug-2023 22:18:30

Instrument ID: 19930

Lims ID: 410-140485-A-3

Lab Sample ID: 410-140485-3

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

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

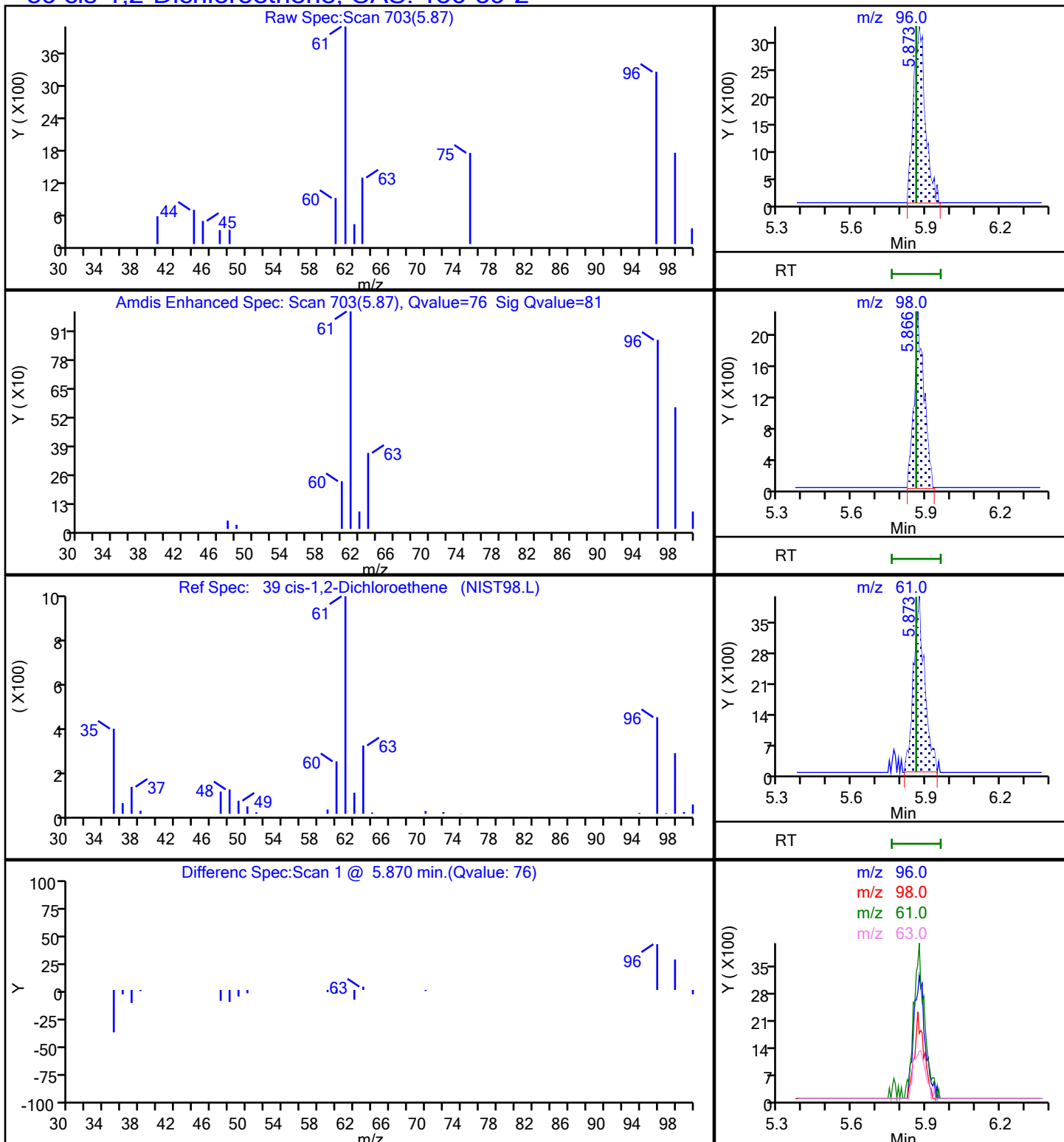
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

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



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X14.D

Injection Date: 29-Aug-2023 22:18:30

Instrument ID: 19930

Lims ID: 410-140485-A-3

Lab Sample ID: 410-140485-3

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

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

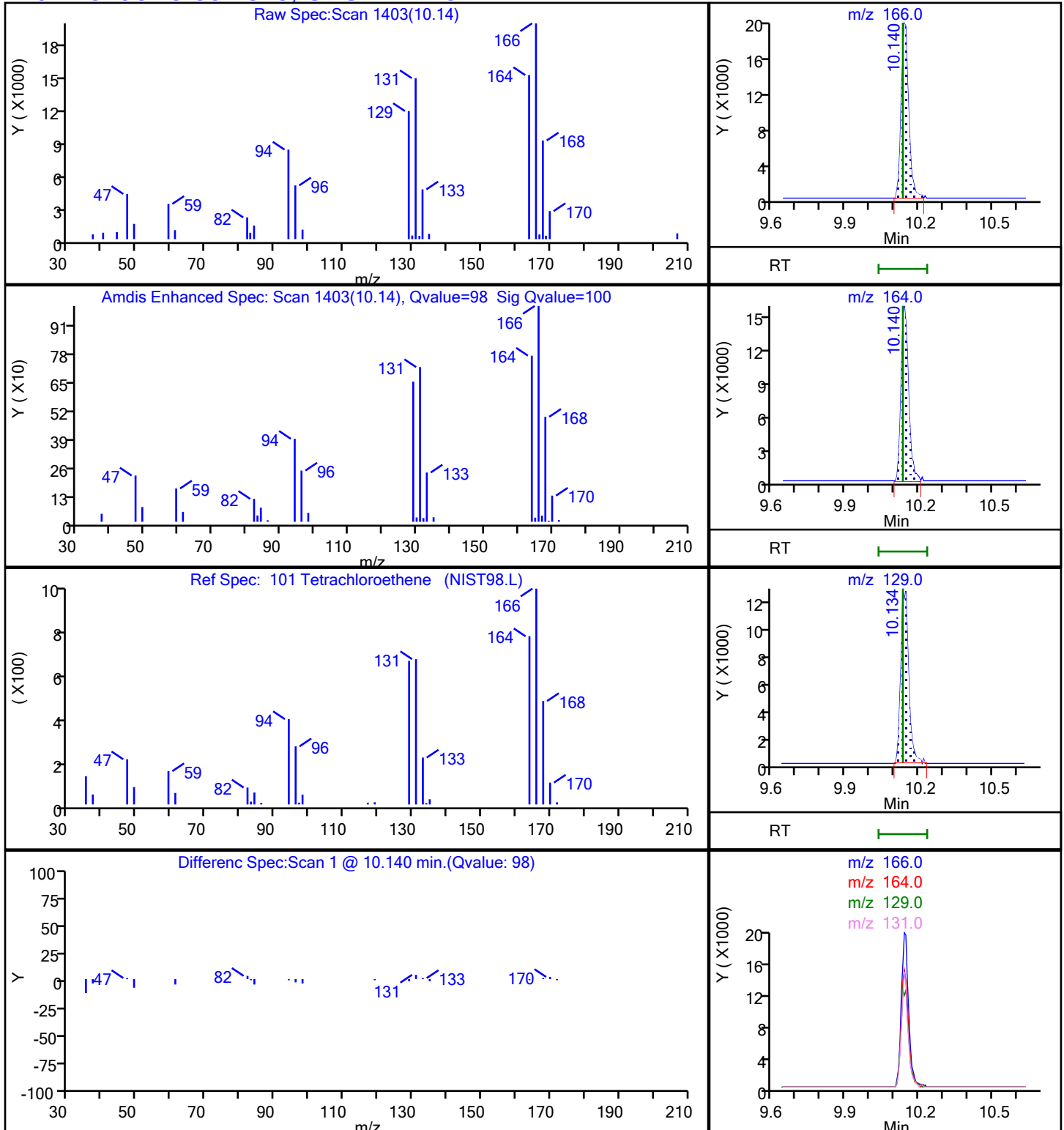
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

101 Tetrachloroethene, CAS: 127-18-4





Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X14.D

Injection Date: 29-Aug-2023 22:18:30

Instrument ID: 19930

Lims ID: 410-140485-A-3

Lab Sample ID: 410-140485-3

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

Operator ID: gaw91131

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

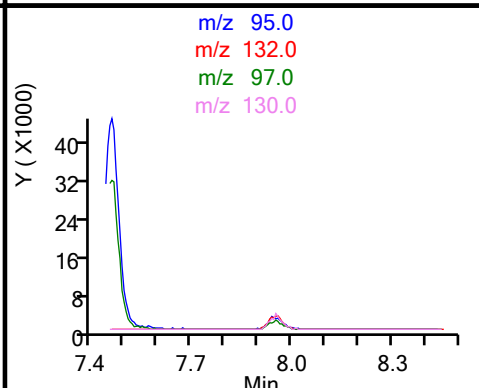
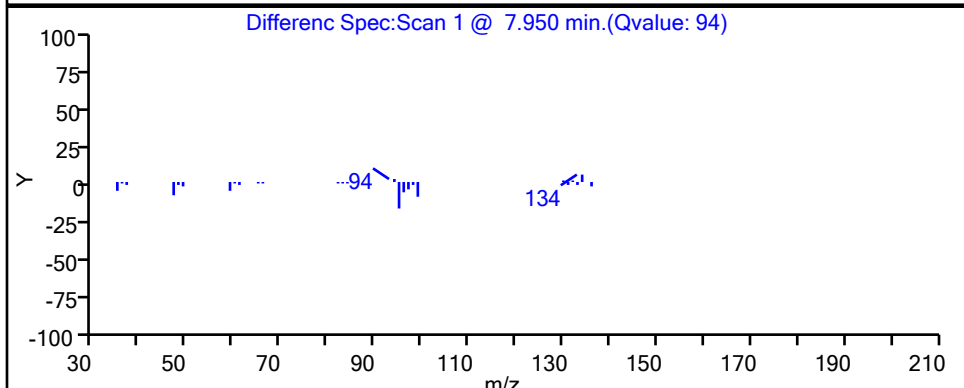
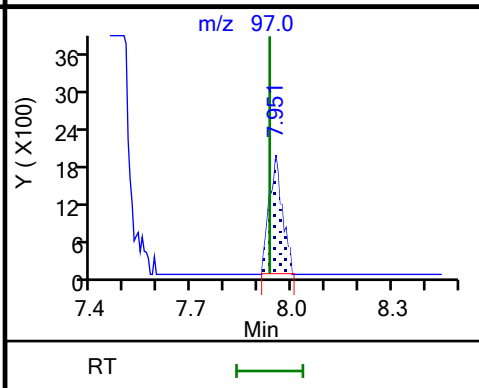
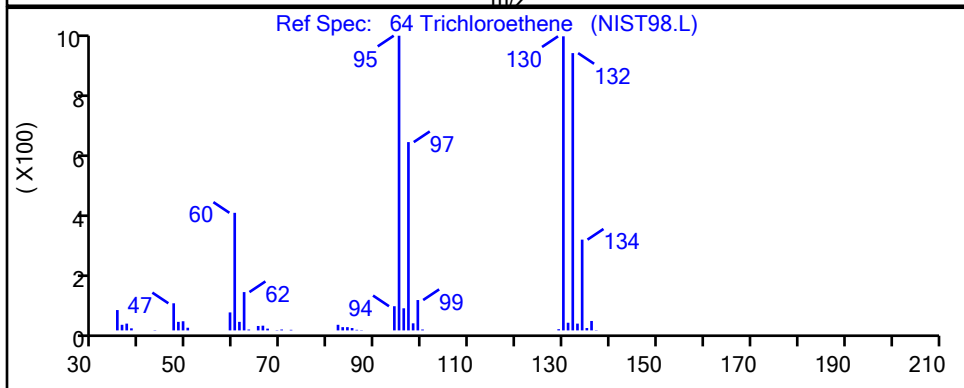
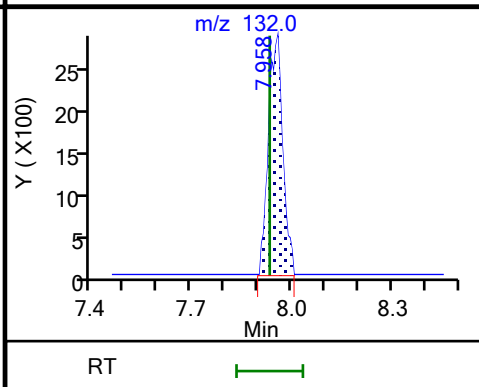
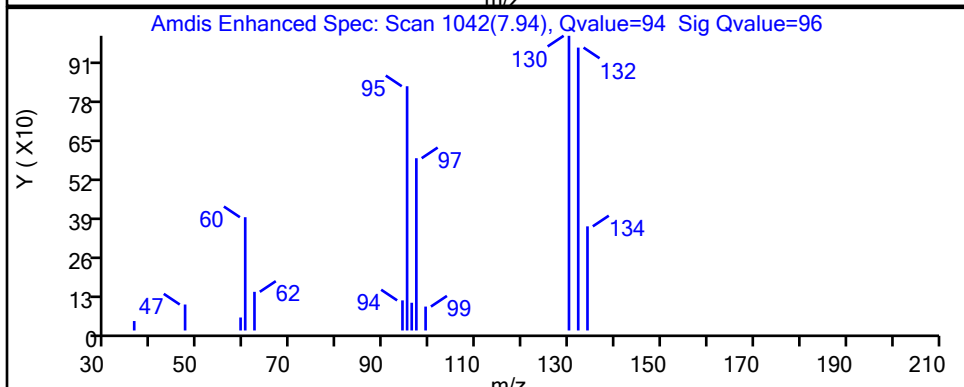
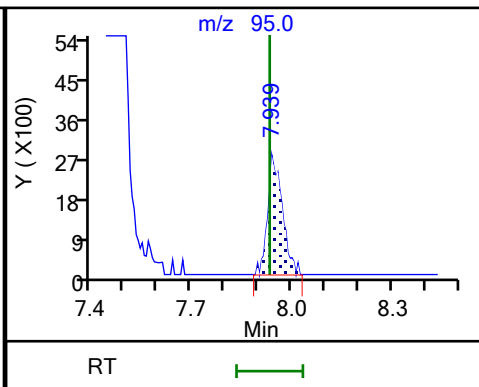
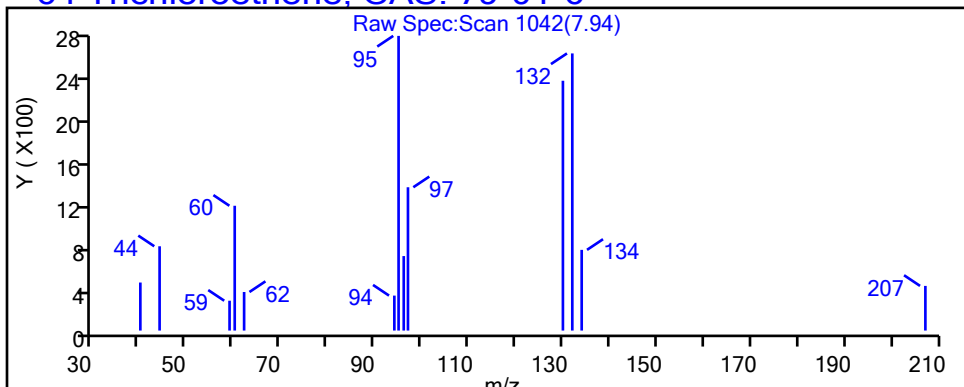
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

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.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-4

Matrix: Water

Lab File ID: IG29X15.D

Analysis Method: 8260D

Date Collected: 08/24/2023 13:00

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 22:39

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.: 413930

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	^c cn	5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	3.6	J cn	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	0.27	J	0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories  
Environment Testing, LLC

Job No.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-4

Matrix: Water

Lab File ID: IG29X15.D

Analysis Method: 8260D

Date Collected: 08/24/2023 13:00

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 22:39

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.: 413930

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.13	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X15.D  
 Lims ID: 410-140485-A-4  
 Client ID: HD-COD-SW-9-0/1-0  
 Sample Type: Client  
 Inject. Date: 29-Aug-2023 22:39:30 ALS Bottle#: 15 Worklist Smp#: 16  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-016  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:16:24 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:16:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.044	2.044	0.000	1	3912	0.0693	
5 Vinyl chloride	62		2.148				ND	
7 Bromomethane	94		2.471				ND	7
8 Chloroethane	64		2.544				ND	
15 1,1-Dichloroethene	96		3.342				ND	
16 Acetone	43	3.404	3.367	0.037	86	18142	3.60	
20 Carbon disulfide	76	3.635	3.635	0.000	30	4633	0.0459	
25 Methylene Chloride	84		3.964				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.989	3.964	0.025	27	105364	50.0	
29 Methyl tert-butyl ether	73		4.348				ND	
30 trans-1,2-Dichloroethene	96		4.361				ND	
32 1,1-Dichloroethane	63		5.019				ND	
38 2-Butanone (MEK)	43		5.824				ND	
39 cis-1,2-Dichloroethene	96	5.885	5.860	0.025	73	3354	0.0728	a
46 Chlorobromomethane	128		6.196				ND	
48 Chloroform	83	6.354	6.342	0.012	86	5216	0.0712	
\$ 49 Dibromofluoromethane (Surr)	113	6.568	6.561	0.007	94	388514	10.9	
50 1,1,1-Trichloroethane	97		6.567				ND	
54 Carbon tetrachloride	117		6.787				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.012	0.007	63	76478	10.8	
57 Benzene	78		7.049				ND	
58 1,2-Dichloroethane	62		7.116				ND	
* 61 Fluorobenzene (IS)	96	7.458	7.451	0.007	99	1387426	10.0	
64 Trichloroethene	95	7.952	7.933	0.019	93	6123	0.1343	
66 1,2-Dichloropropane	63		8.262				ND	
71 Dichlorobromomethane	83		8.616				ND	
76 cis-1,3-Dichloropropene	75		9.177				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.353				ND	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.494	0.000	94	1414674	9.92	
79 Toluene	92	9.579	9.567	0.012	97	4087	0.0363	
97 trans-1,3-Dichloropropene	75		9.841				ND	
100 1,1,2-Trichloroethane	97		10.048				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.146	10.134	0.012	97	15768	0.2688	
103 2-Hexanone	43		10.262				ND	
105 Chlorodibromomethane	129		10.433				ND	
106 Ethylene Dibromide	107		10.542				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.981	10.981	0.000	85	1108949	10.0	
109 Chlorobenzene	112		11.006				ND	
111 1,1,1,2-Tetrachloroethane	131		11.091				ND	
112 Ethylbenzene	91		11.091				ND	
113 m-Xylene & p-Xylene	106		11.213				ND	7
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.542				ND	
115 Styrene	104		11.560				ND	
116 Bromoform	173		11.719				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.993	11.987	0.006	93	497439	9.26	
121 1,1,2,2-Tetrachloroethane	83		12.091				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.877	12.871	0.006	94	634365	10.0	

### QC Flag Legend

#### Processing Flags

7 - Failed Limit of Detection

#### Review Flags

a - User Assigned ID

### Reagents:

MSV\_LLcentISS\_00009

Amount Added: 5.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X15.D

Injection Date: 29-Aug-2023 22:39:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-140485-A-4

Lab Sample ID: 410-140485-4

Worklist Smp#: 16

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

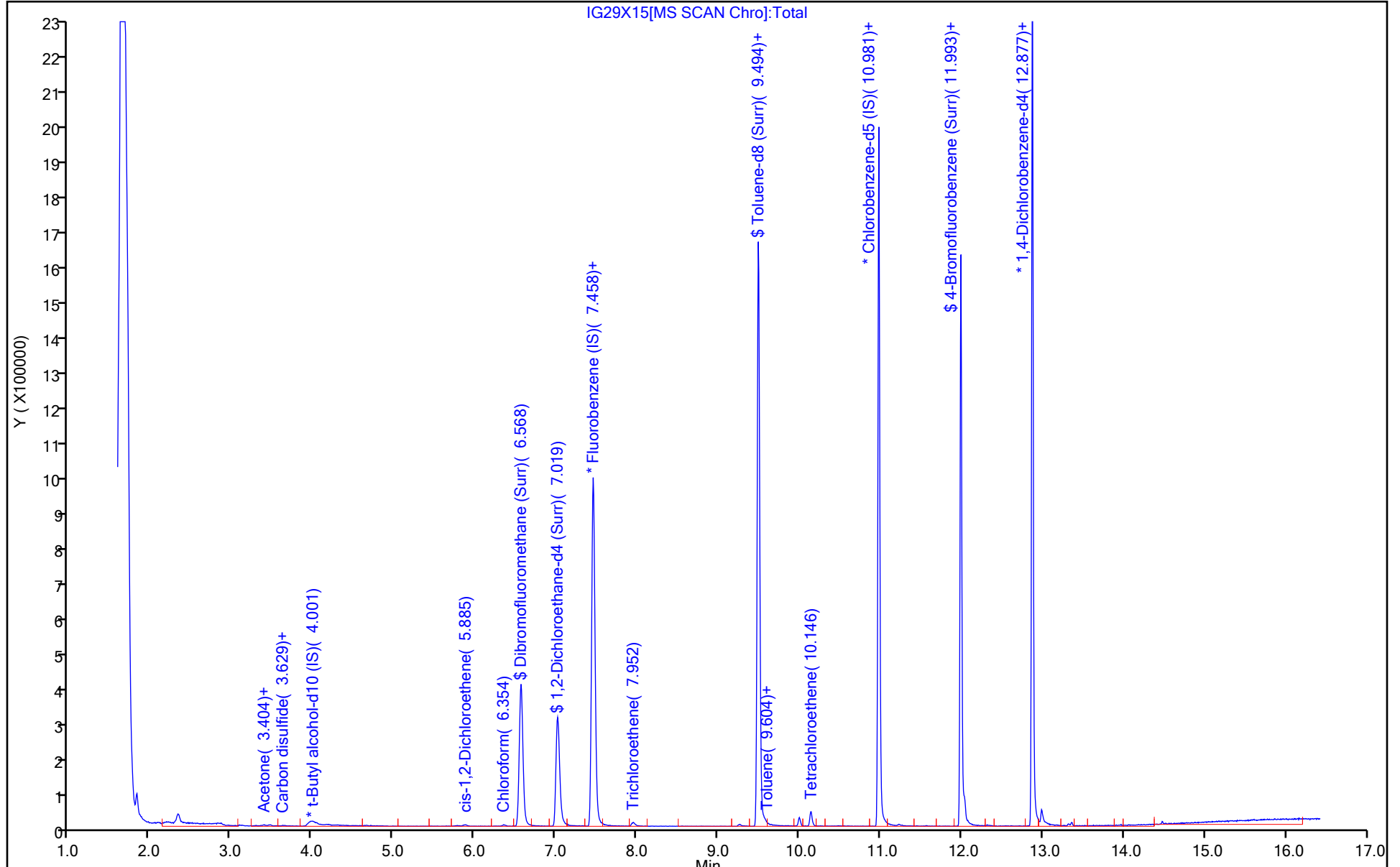
ALS Bottle#: 15

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  
Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X15.D  
 Lims ID: 410-140485-A-4  
 Client ID: HD-COD-SW-9-0/1-0  
 Sample Type: Client  
 Inject. Date: 29-Aug-2023 22:39:30 ALS Bottle#: 15 Worklist Smp#: 16  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-016  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:16:24 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:16:24

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	10.9	109.02
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.8	108.23
\$ 78 Toluene-d8 (Surr)	10.0	9.92	99.23
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.26	92.59

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X15.D

Injection Date: 29-Aug-2023 22:39:30

Instrument ID: 19930

Lims ID: 410-140485-A-4

Lab Sample ID: 410-140485-4

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

Operator ID: gaw91131

ALS Bottle#: 15

Worklist Smp#: 16

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

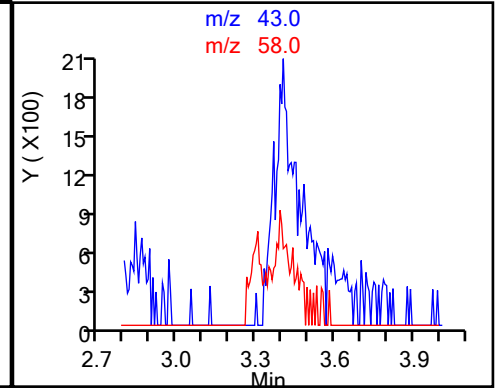
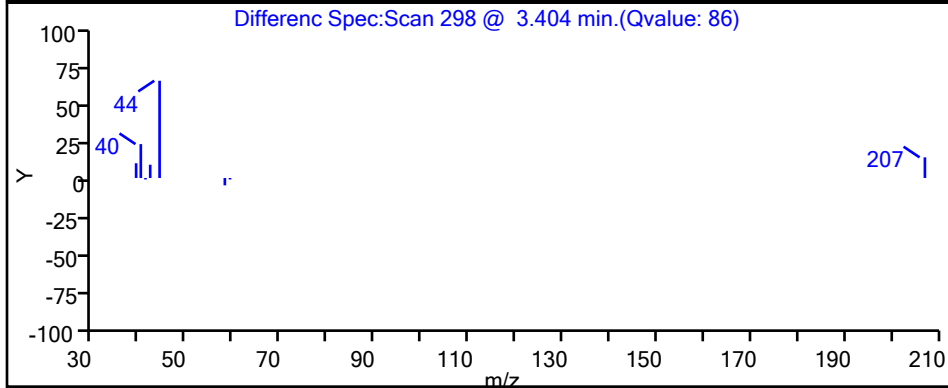
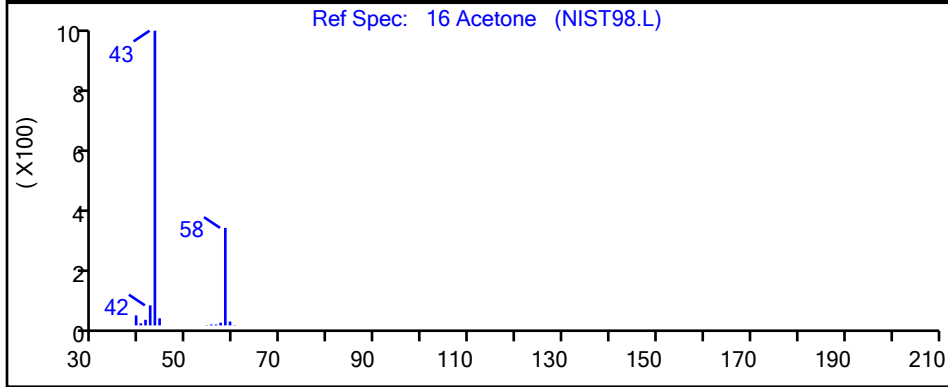
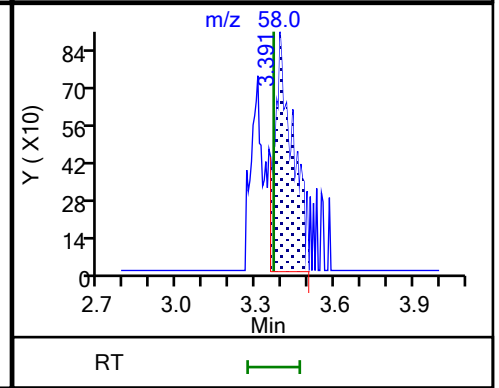
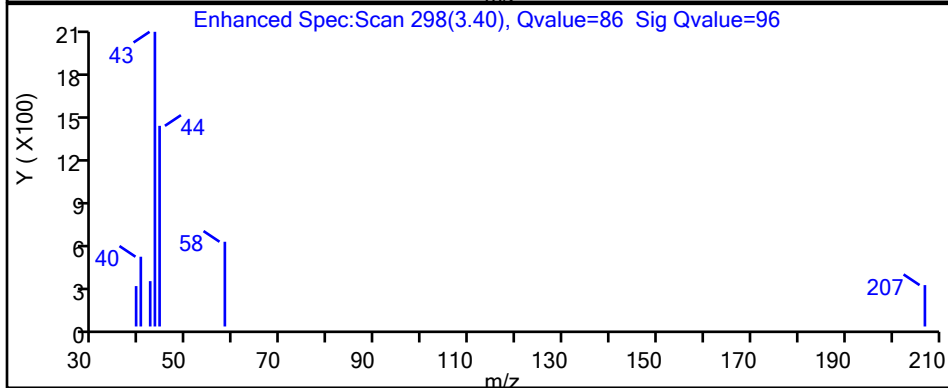
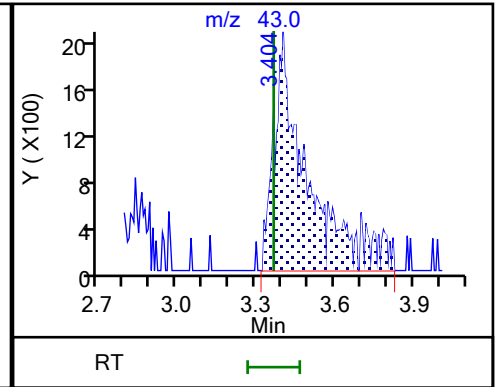
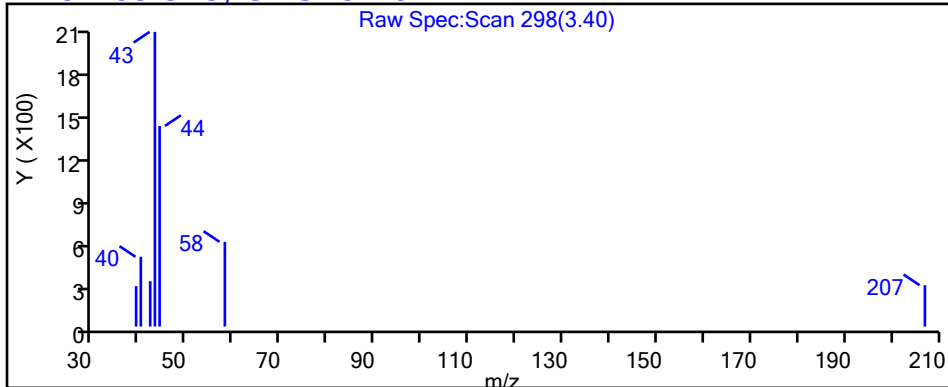
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

16 Acetone, CAS: 67-64-1





Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X15.D

Injection Date: 29-Aug-2023 22:39:30

Instrument ID: 19930

Lims ID: 410-140485-A-4

Lab Sample ID: 410-140485-4

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

Operator ID: gaw91131

ALS Bottle#: 15

Worklist Smp#: 16

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

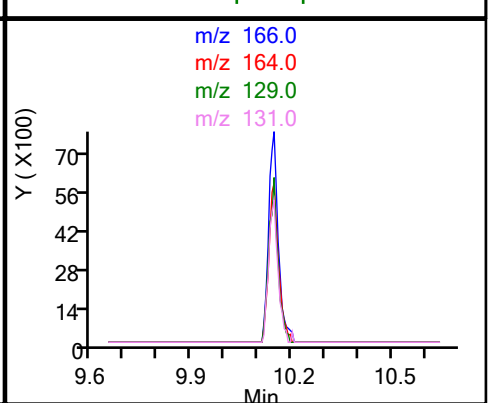
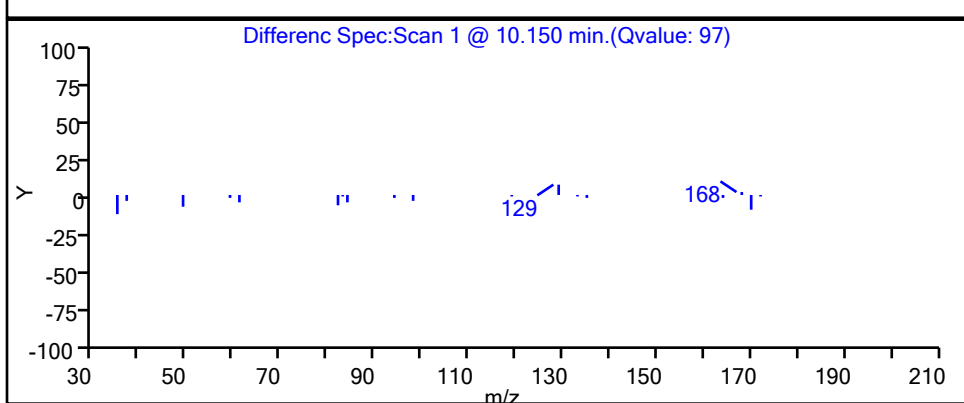
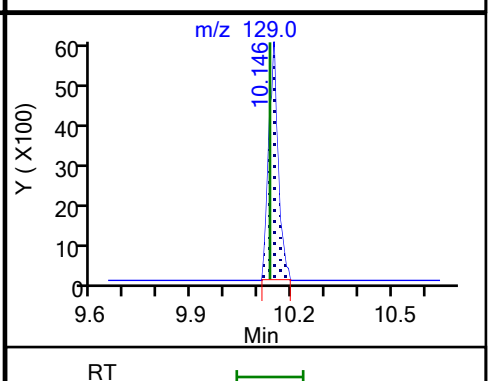
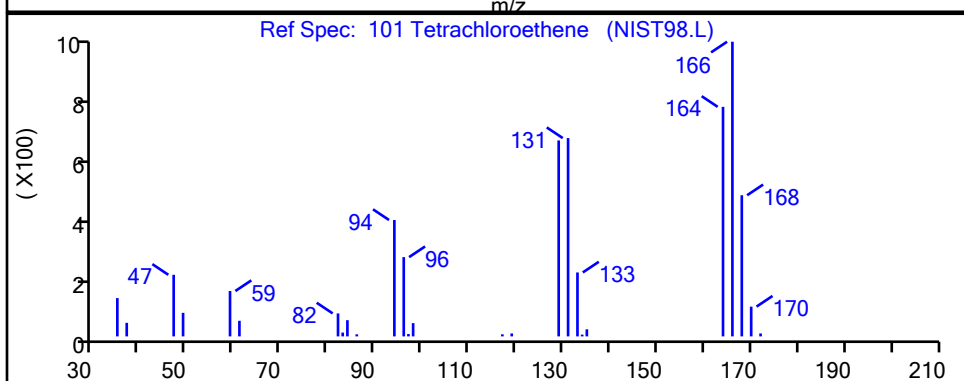
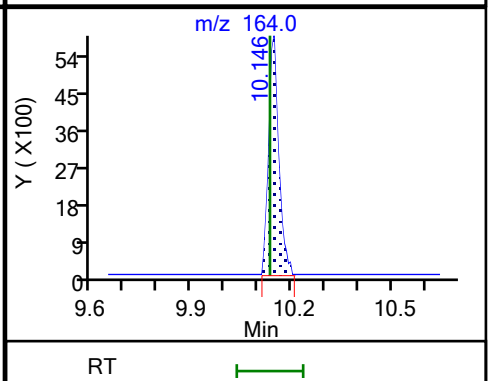
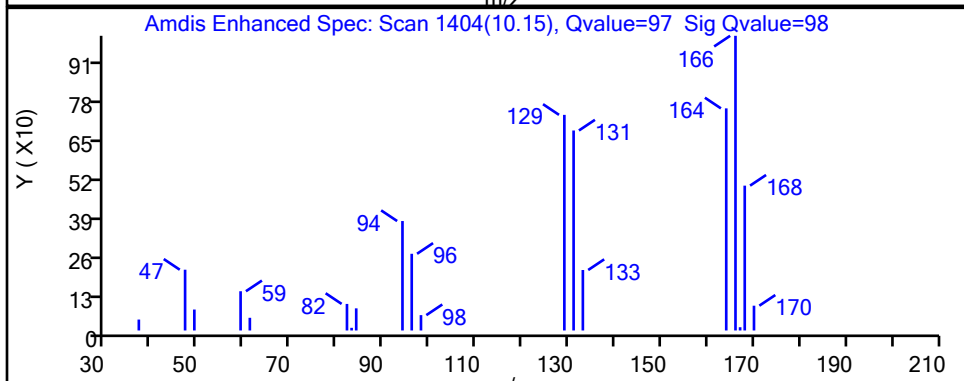
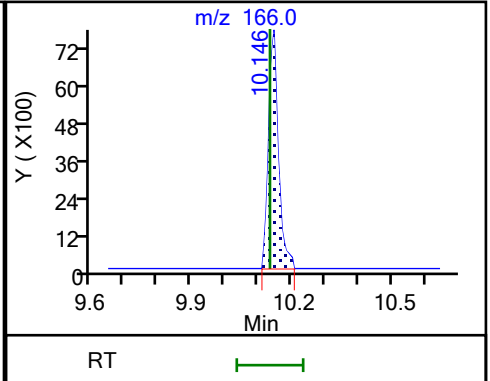
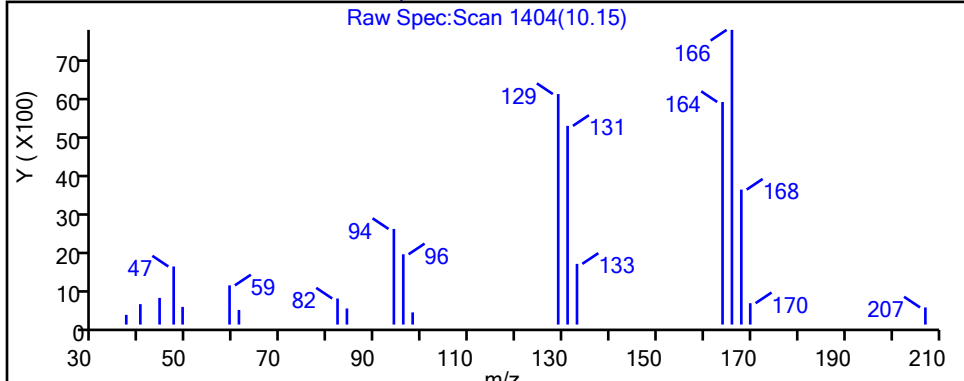
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

101 Tetrachloroethene, CAS: 127-18-4



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X15.D

Injection Date: 29-Aug-2023 22:39:30

Instrument ID: 19930

Lims ID: 410-140485-A-4

Lab Sample ID: 410-140485-4

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

Operator ID: gaw91131

ALS Bottle#: 15

Worklist Smp#: 16

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

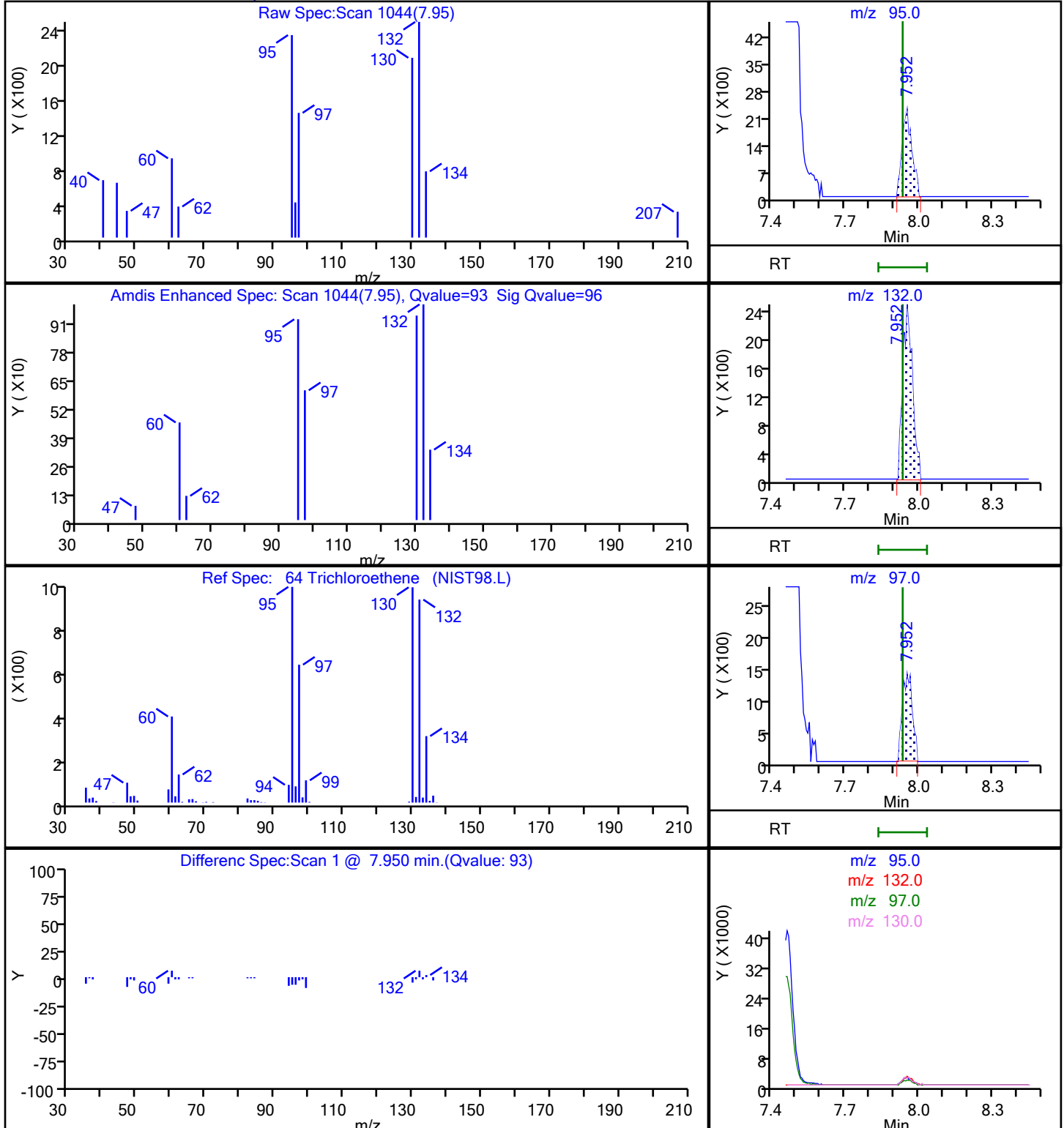
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

### 64 Trichloroethene, CAS: 79-01-6



Eurofins Lancaster Laboratories Environment Testing, LLC

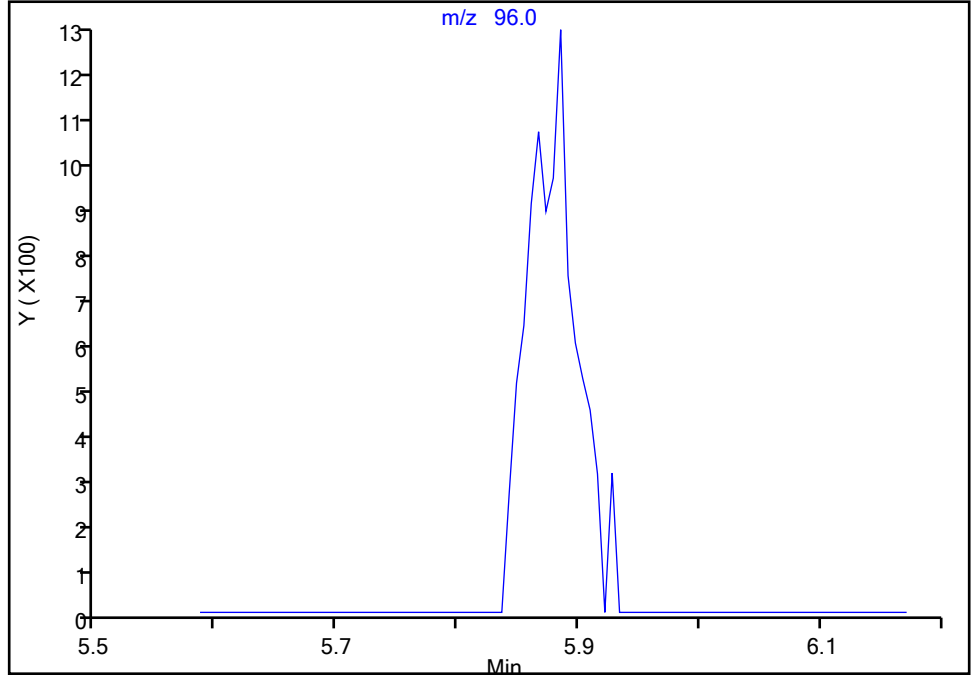
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Injection Date: 29-Aug-2023 22:39:30 Instrument ID: 19930  
Lims ID: 410-140485-A-4 Lab Sample ID: 410-140485-4  
Client ID: HD-COD-SW-9-0/1-0  
Operator ID: gaw91131 ALS Bottle#: 15 Worklist Smp#: 16  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

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

Signal: 1

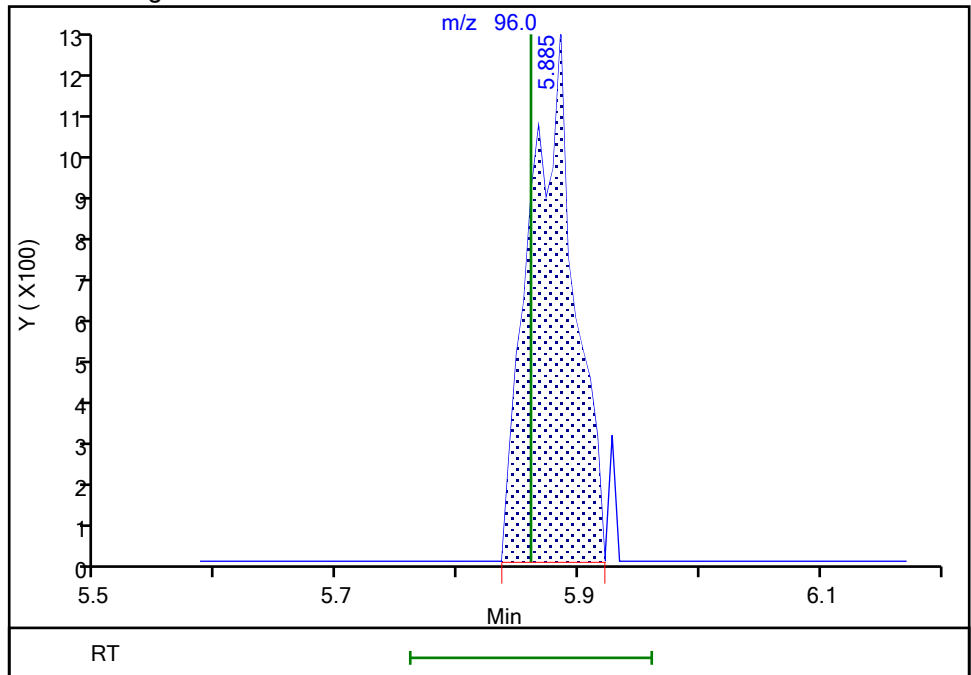
Not Detected  
Expected RT: 5.86

Processing Integration Results



Manual Integration Results

RT: 5.88  
Area: 3354  
Amount: 0.072799  
Amount Units: ug/l



Reviewer: kaewrungrueangp, 30-Aug-2023 14:16:09 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.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-5

Matrix: Water

Lab File ID: IG29X16.D

Analysis Method: 8260D

Date Collected: 08/24/2023 09:35

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 23:00

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 413930

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	^c cn	5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.3	J cn	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.21	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.92		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.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-5

Matrix: Water

Lab File ID: IG29X16.D

Analysis Method: 8260D

Date Collected: 08/24/2023 09:35

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 23:00

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 413930

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.18	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	110		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X16.D  
 Lims ID: 410-140485-A-5  
 Client ID: HD-COD-SW-13-0/1-0  
 Sample Type: Client  
 Inject. Date: 29-Aug-2023 23:00:30 ALS Bottle#: 16 Worklist Smp#: 17  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-017  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:16:24 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:16:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.050	2.044	0.006	90	4157	0.0713	
5 Vinyl chloride	62		2.148				ND	7
7 Bromomethane	94		2.471				ND	
8 Chloroethane	64		2.544				ND	
15 1,1-Dichloroethene	96		3.342				ND	
16 Acetone	43	3.398	3.367	0.031	93	11192	2.34	
20 Carbon disulfide	76	3.641	3.635	0.006	94	3486	0.0334	
25 Methylene Chloride	84		3.964				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.989	3.964	0.025	27	99921	50.0	
29 Methyl tert-butyl ether	73		4.348				ND	
30 trans-1,2-Dichloroethene	96		4.361				ND	
32 1,1-Dichloroethane	63		5.019				ND	
38 2-Butanone (MEK)	43		5.824				ND	
39 cis-1,2-Dichloroethene	96	5.879	5.860	0.019	73	10200	0.2143	
46 Chlorobromomethane	128		6.196				ND	
48 Chloroform	83	6.360	6.342	0.018	86	5773	0.0762	
\$ 49 Dibromofluoromethane (Surr)	113	6.574	6.561	0.013	94	404242	11.0	
50 1,1,1-Trichloroethane	97	6.580	6.567	0.013	35	4552	0.0644	
54 Carbon tetrachloride	117		6.787				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.025	7.012	0.013	63	78067	10.7	
57 Benzene	78		7.049				ND	
58 1,2-Dichloroethane	62		7.116				ND	
* 61 Fluorobenzene (IS)	96	7.458	7.451	0.007	99	1433352	10.0	
64 Trichloroethene	95	7.951	7.933	0.018	97	8388	0.1781	
66 1,2-Dichloropropane	63		8.262				ND	
71 Dichlorobromomethane	83		8.616				ND	
76 cis-1,3-Dichloropropene	75		9.177				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.353				ND	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.494	0.000	94	1488065	9.92	
79 Toluene	92		9.567				ND	7
97 trans-1,3-Dichloropropene	75		9.841				ND	
100 1,1,2-Trichloroethane	97		10.048				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.140	10.134	0.006	97	56977	0.9235	
103 2-Hexanone	43		10.262				ND	
105 Chlorodibromomethane	129		10.433				ND	
106 Ethylene Dibromide	107		10.542				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.981	10.981	0.000	85	1166394	10.0	
109 Chlorobenzene	112		11.006				ND	
111 1,1,1,2-Tetrachloroethane	131		11.091				ND	
112 Ethylbenzene	91		11.091				ND	
113 m-Xylene & p-Xylene	106		11.213				ND	7
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.542				ND	
115 Styrene	104		11.560				ND	
116 Bromoform	173		11.719				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.993	11.987	0.006	92	515259	9.12	
121 1,1,2,2-Tetrachloroethane	83		12.091				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.877	12.871	0.006	94	651126	10.0	

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

**Reagents:**

MSV\_LLcentISS\_00009

Amount Added: 5.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X16.D

Injection Date: 29-Aug-2023 23:00:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-140485-A-5

Lab Sample ID: 410-140485-5

Worklist Smp#: 17

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

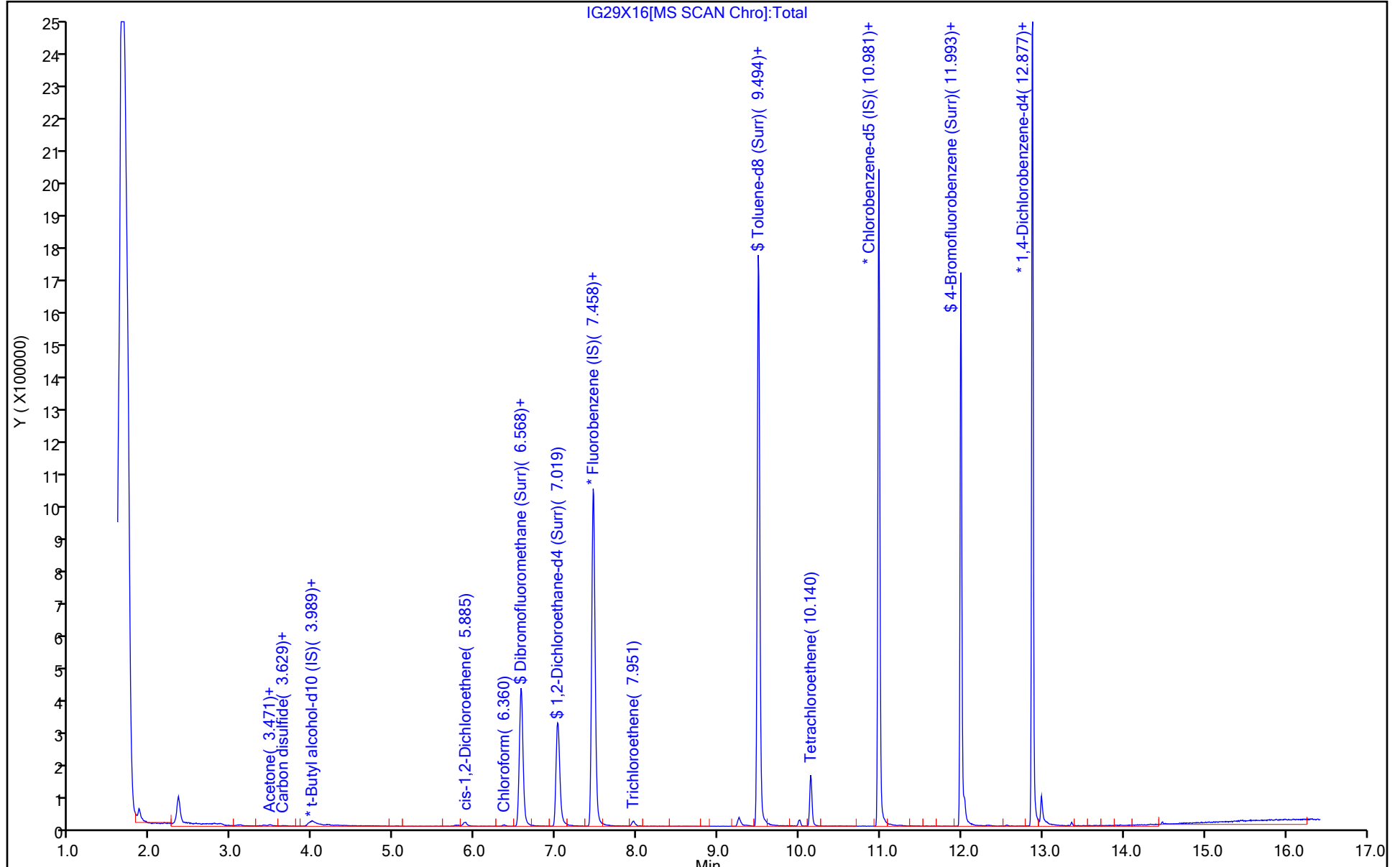
ALS Bottle#: 16

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\20230829-92765.b\IG29X16.D  
 Lims ID: 410-140485-A-5  
 Client ID: HD-COD-SW-13-0/1-0  
 Sample Type: Client  
 Inject. Date: 29-Aug-2023 23:00:30 ALS Bottle#: 16 Worklist Smp#: 17  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-017  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:16:24 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:16:52

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	11.0	109.80
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.7	106.94
\$ 78 Toluene-d8 (Surr)	10.0	9.92	99.23
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.12	91.19

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X16.D

Injection Date: 29-Aug-2023 23:00:30

Instrument ID: 19930

Lims ID: 410-140485-A-5

Lab Sample ID: 410-140485-5

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

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

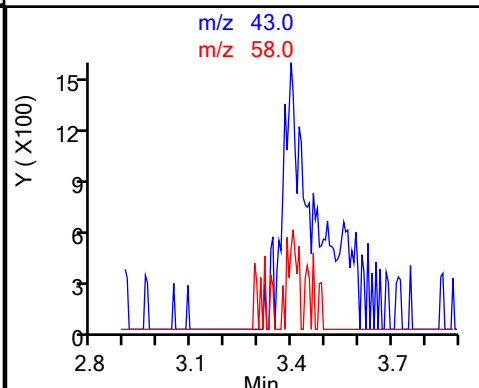
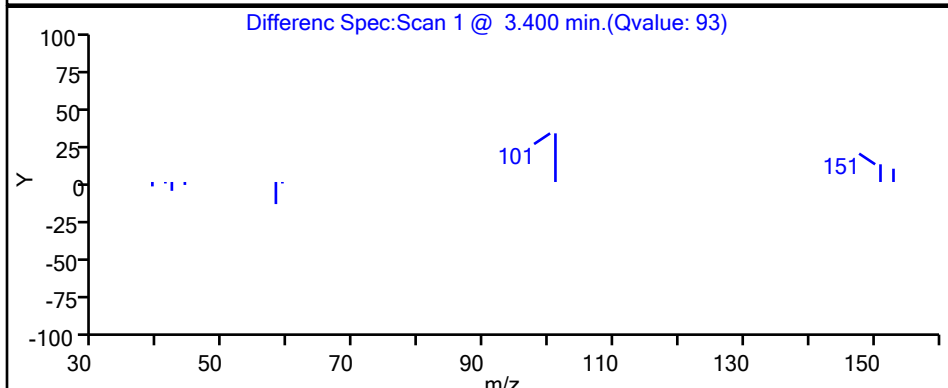
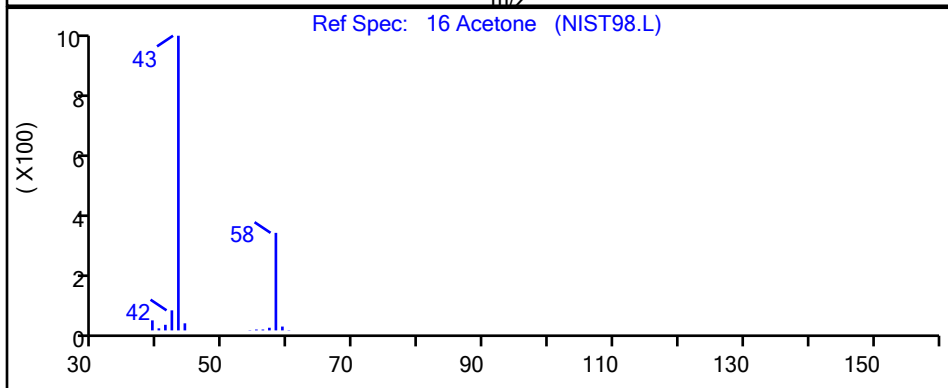
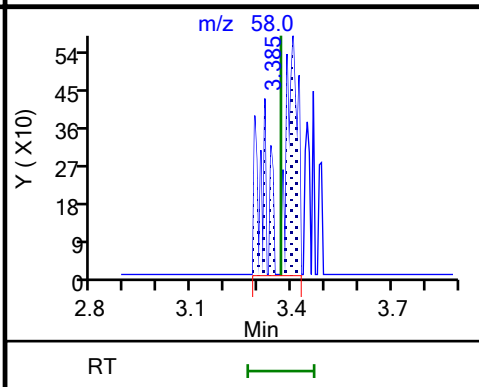
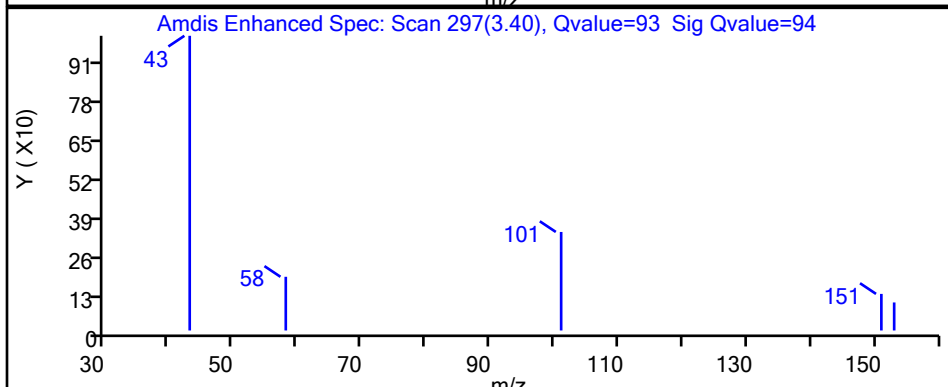
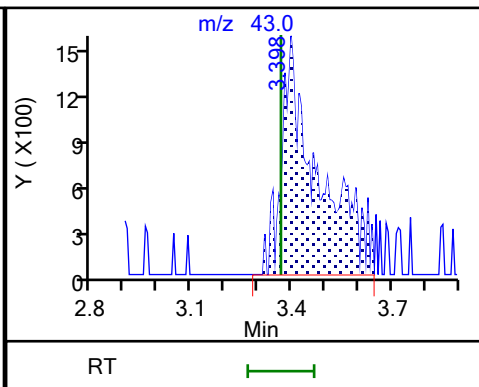
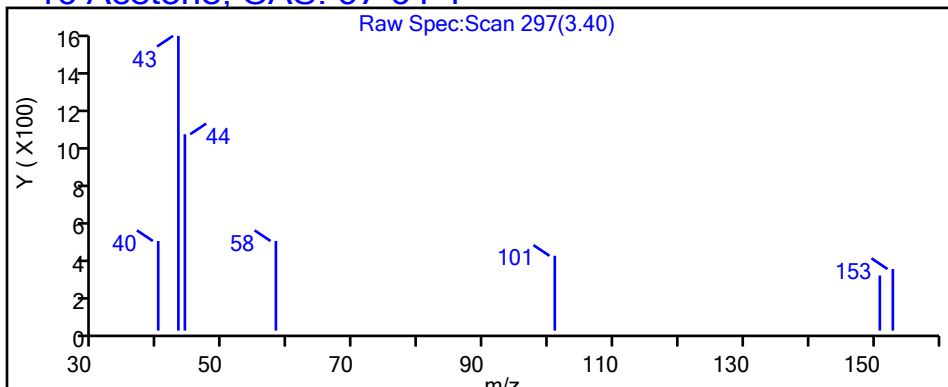
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

### 16 Acetone, CAS: 67-64-1



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X16.D

Injection Date: 29-Aug-2023 23:00:30

Instrument ID: 19930

Lims ID: 410-140485-A-5

Lab Sample ID: 410-140485-5

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

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

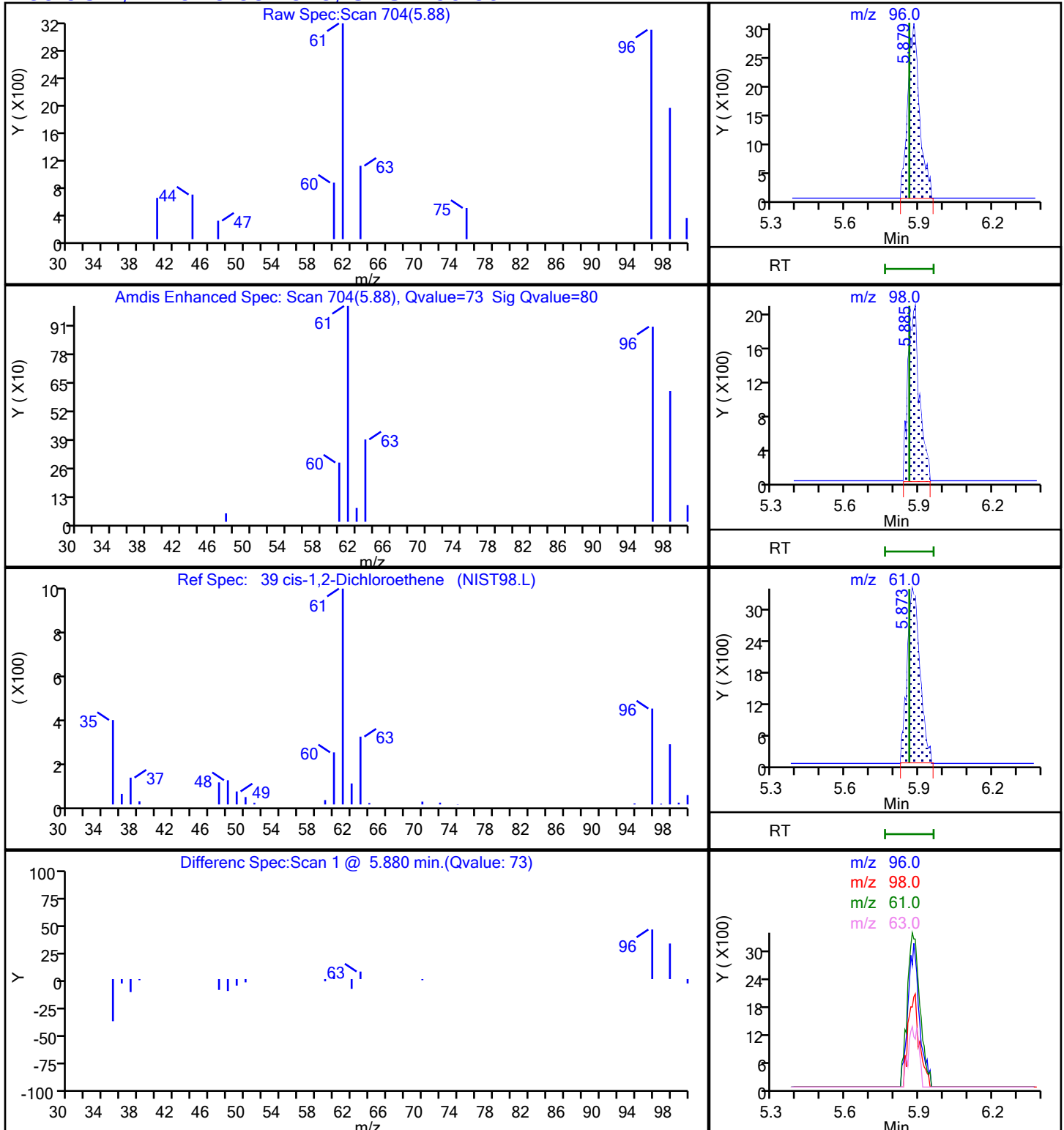
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

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



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X16.D

Injection Date: 29-Aug-2023 23:00:30

Instrument ID: 19930

Lims ID: 410-140485-A-5

Lab Sample ID: 410-140485-5

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

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

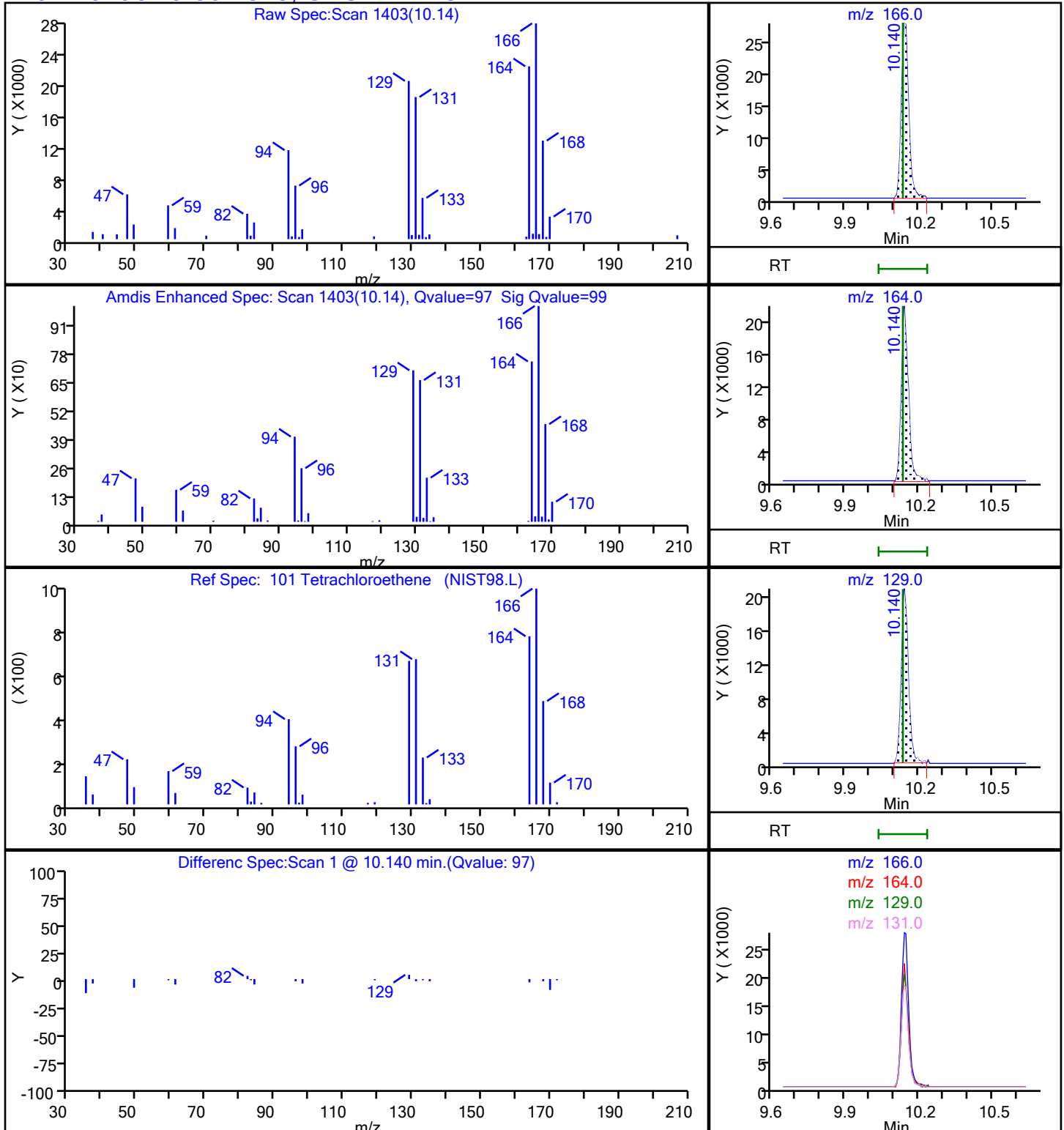
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

### 101 Tetrachloroethene, CAS: 127-18-4



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X16.D

Injection Date: 29-Aug-2023 23:00:30

Instrument ID: 19930

Lims ID: 410-140485-A-5

Lab Sample ID: 410-140485-5

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

Operator ID: gaw91131

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

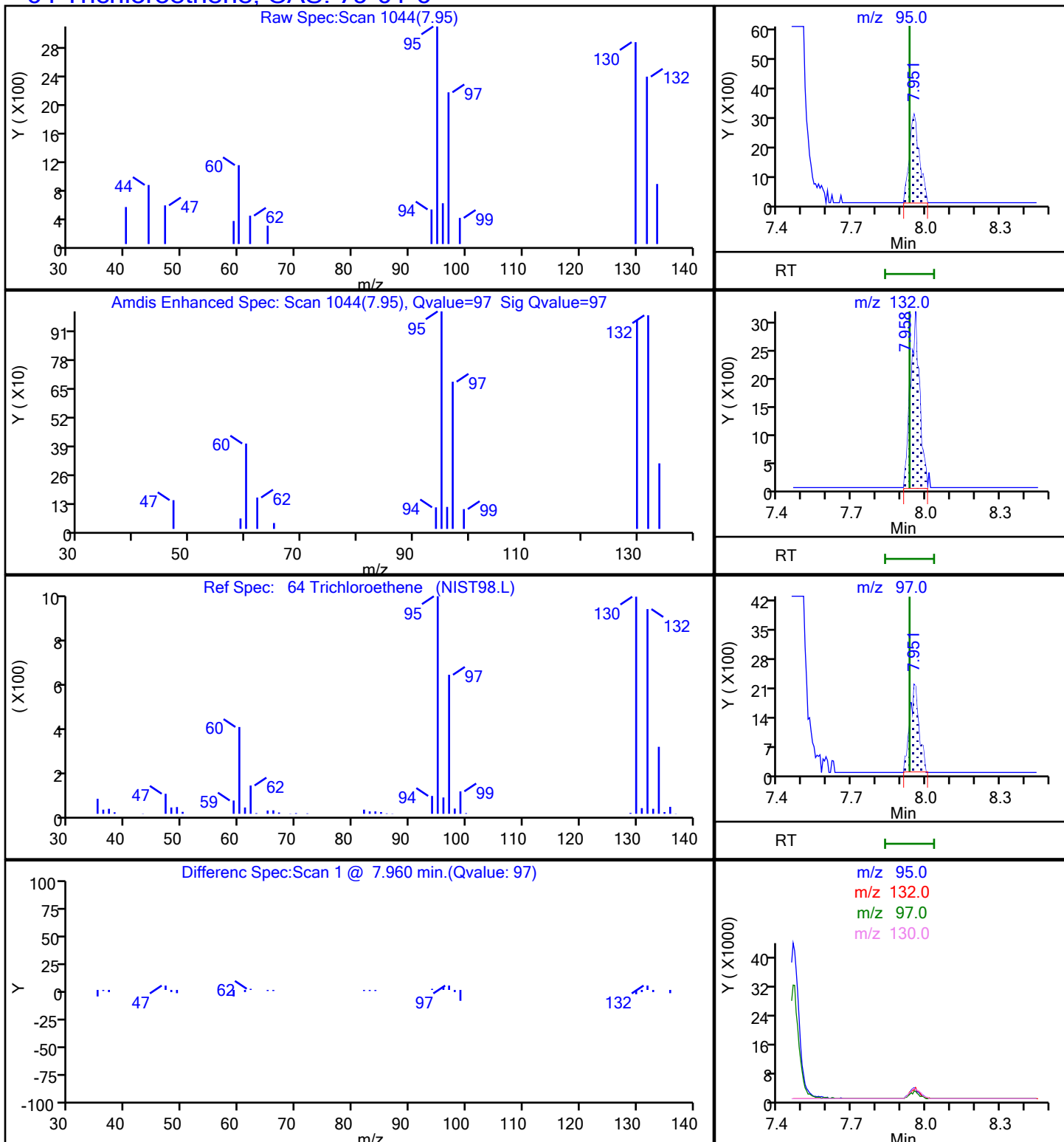
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

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.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-6

Matrix: Water

Lab File ID: IG29X08.D

Analysis Method: 8260D

Date Collected: 08/24/2023 12:02

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 20:12

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 413930

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	0.23	J	0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND	FH	0.50	0.10
75-35-4	1,1-Dichloroethene	0.12	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	FH	0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND	^c cn	5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.2	J cn	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.24	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.76		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	4.2		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.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-6

Matrix: Water

Lab File ID: IG29X08.D

Analysis Method: 8260D

Date Collected: 08/24/2023 12:02

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 20:12

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 413930

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.97		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)	109		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC  
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X08.D  
 Lims ID: 410-140485-A-6  
 Client ID: HD-COD-SW-15-0/1-0  
 Sample Type: Client  
 Inject. Date: 29-Aug-2023 20:12:30 ALS Bottle#: 8 Worklist Smp#: 9  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-009  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:13:09 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:13:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.849				ND	
2 Chlorodifluoromethane	51		1.867				ND	
3 Dimethyl ether	45		1.922				ND	
4 Chloromethane	50	2.038	2.044	-0.006	1	1950	0.0330	
5 Vinyl chloride	62		2.148				ND	
6 Butadiene	39		2.166				ND	7
7 Bromomethane	94		2.471				ND	
8 Chloroethane	64		2.544				ND	
9 Dichlorofluoromethane	67		2.776				ND	7
10 Trichlorofluoromethane	101		2.830				ND	
11 Ethyl ether	59		3.050				ND	
13 1,2-Dichloro-1,1,2-trifluoroethane	67		3.141				ND	
14 Acrolein	56		3.208				ND	
T 12 Ethanol TIC	45		3.288				ND	7
15 1,1-Dichloroethene	96	3.336	3.342	-0.006	94	4481	0.1151	
16 Acetone	43	3.385	3.367	0.018	62	11899	2.16	
17 1,1,2-Trichloro-1,2,2-trifluoroethane	101		3.385				ND	
18 Iodomethane	142		3.525				ND	
19 Ethyl bromide	108		3.556				ND	
20 Carbon disulfide	76	3.623	3.635	-0.012	97	5725	0.0542	
23 Methyl acetate	43		3.763				ND	U
24 3-Chloro-1-propene	41		3.787				ND	
21 Acetonitrile	41		3.788				ND	
25 Methylene Chloride	84		3.964				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.977	3.964	0.013	26	114998	50.0	
T 22 Acetonitrile TIC	41		4.001				ND	
27 2-Methyl-2-propanol	59		4.092				ND	
28 Acrylonitrile	53		4.281				ND	
29 Methyl tert-butyl ether	73	4.361	4.348	0.013	81	3270	0.0306	
30 trans-1,2-Dichloroethene	96		4.361				ND	
31 Hexane	57		4.787				ND	
33 Vinyl acetate	43		4.989				ND	



Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
32 1,1-Dichloroethane	63	5.025	5.019	0.006	91	7024	0.0947	
35 Isopropyl ether	45		5.086				ND	
36 2-Chloro-1,3-butadiene	53		5.135				ND	
T 34 Vinyl acetate (TIC)	43		5.336				ND	
37 Tert-butyl ethyl ether	59		5.629				ND	7
38 2-Butanone (MEK)	43		5.824				ND	
39 cis-1,2-Dichloroethene	96	5.866	5.860	0.006	80	36509	0.7577	
40 2,2-Dichloropropane	77		5.879				ND	7
42 Ethyl acetate	43		5.891				ND	
43 Propionitrile	54		5.903				ND	
45 Methacrylonitrile	67		6.122				ND	
S 41 1,2-Dichloroethene, Total	100				0		0.7577	
46 Chlorobromomethane	128		6.196				ND	
47 Tetrahydrofuran	71		6.202				ND	
44 Methyl acrylate	55		6.220				ND	
48 Chloroform	83	6.354	6.342	0.012	93	18054	0.2355	
\$ 49 Dibromofluoromethane (Surr)	113	6.561	6.561	0.000	94	403504	10.8	
50 1,1,1-Trichloroethane	97	6.568	6.567	0.001	37	16664	0.2328	
51 Cyclohexane	56		6.671				ND	
54 Carbon tetrachloride	117	6.781	6.787	-0.006	71	1930	0.0303	
53 1,1-Dichloropropene	75		6.787				ND	
55 Isobutyl alcohol	41		6.945				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.013	7.012	0.001	63	80615	10.9	
52 1-Chlorobutane	56		7.019				ND	
57 Benzene	78		7.049				ND	
58 1,2-Dichloroethane	62		7.116				ND	
59 Isopropyl acetate	43		7.128				ND	
60 Tert-amyl methyl ether	73		7.244				ND	
* 61 Fluorobenzene (IS)	96	7.452	7.451	0.001	99	1451118	10.0	
62 n-Heptane	43		7.470				ND	7
63 n-Butanol	56		7.835				ND	
64 Trichloroethene	95	7.945	7.933	0.012	95	46253	0.9703	
65 Methylcyclohexane	83		8.244				ND	
66 1,2-Dichloropropane	63		8.262				ND	
67 Methyl methacrylate	69		8.360				ND	
68 1,4-Dioxane	88		8.360				ND	
69 Dibromomethane	93		8.378				ND	
70 n-Propyl acetate	43		8.445				ND	
71 Dichlorobromomethane	83		8.616				ND	
72 2-Nitropropane	41		8.878				ND	
75 1-Bromo-2-chloroethane	63		9.006				ND	
73 2-Chloroethyl vinyl ether	63		9.006				ND	
76 cis-1,3-Dichloropropene	75		9.177				ND	
74 Chloroacetonitrile	75		9.226				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.353				ND	7
\$ 78 Toluene-d8 (Surr)	98	9.494	9.494	0.000	94	1471395	9.71	
79 Toluene	92		9.567				ND	
97 trans-1,3-Dichloropropene	75		9.841				ND	
99 Ethyl methacrylate	69		9.908				ND	
T 91 Epibromohydrin TIC	57		10.000				ND	
T 81 Monochloroacetic acid TIC	50	9.561	10.000	-0.439	1	126	0.000868	
T 83 2,3-Dibromopropene TIC	119	10.000	10.000	0.000	1	421	0.002901	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
T 85 2,3-Dibromo-1-propanol TIC	57	9.518	10.000	-0.482	1	96	0.000662	
T 84 3-Chloro-1,2-propanediol TIC	43		10.000				ND	
T 224 Methyl acrylate TIC	55	9.494	10.000	-0.506	4	5513	0.0380	
T 82 Epichlorohydrin TIC	57		10.000				ND	
T 80 Chloroacetaldehyde TIC	50		10.000				ND	
T 86 2-Bromoethanol TIC	45	9.494	10.000	-0.506	13	1910	0.0132	
T 93 Nitrobenzene TIC	77	9.494	10.000	-0.506	6	1184	0.008159	
T 87 2-Chloroethanol TIC	44	9.872	10.000	-0.128	1	432	0.002977	
T 89 Ethylene oxide TIC	43	9.488	10.000	-0.512	24	5886	0.0406	
T 90 Vinyl bromide TIC	106	11.993	10.000	1.993	13	1836	0.0127	
T 92 2-Bromo-3-chloropropene TIC	75	10.981	10.000	0.981	4	17692	0.1219	
T 88 Isopropyl alcohol TIC	45	9.494	10.000	-0.506	15	1910	0.0132	
T 94 Hexachloroethane TIC	117	10.140	10.000	0.140	7	1878	0.0129	
T 95 Decamethylcyclotetrasiloxane TIC	71	9.506	10.000	-0.494	1	222	0.001530	
T 96 Octamethylcyclotetrasiloxane TIC	70	12.042	10.000	2.042	91	31889	0.2198	
100 1,1,2-Trichloroethane	97		10.048				ND	
S 98 1,3-Dichloropropene, Total	100		10.060				ND	7
101 Tetrachloroethene	166	10.140	10.134	0.006	98	262907	4.22	
102 1,3-Dichloropropane	76		10.213				ND	
103 2-Hexanone	43		10.262				ND	
104 n-Butyl acetate	43		10.408				ND	
105 Chlorodibromomethane	129		10.433				ND	
106 Ethylene Dibromide	107		10.542				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.981	10.981	0.000	85	1179030	10.0	
108 1-Chlorohexane	91		10.993				ND	7
109 Chlorobenzene	112		11.006				ND	
111 1,1,1,2-Tetrachloroethane	131		11.091				ND	
112 Ethylbenzene	91		11.091				ND	
113 m-Xylene & p-Xylene	106		11.213				ND	
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.542				ND	
115 Styrene	104		11.560				ND	
116 Bromoform	173		11.719				ND	
117 Isopropylbenzene	105		11.847				ND	
118 cis-1,4-Dichloro-2-butene	88		11.902				ND	
119 Cyclohexanone	55		11.938				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.993	11.987	0.006	93	518466	9.08	
121 1,1,2,2-Tetrachloroethane	83		12.091				ND	
122 Bromobenzene	156		12.103				ND	
123 trans-1,4-Dichloro-2-butene	53		12.115				ND	
124 1,2,3-Trichloropropane	110		12.140				ND	
125 N-Propylbenzene	91		12.176				ND	
126 2-Chlorotoluene	126		12.249				ND	
127 1,3,5-Trimethylbenzene	105		12.310				ND	
128 4-Chlorotoluene	126		12.347				ND	
129 tert-Butylbenzene	134		12.554				ND	
130 Pentachloroethane	167		12.585				ND	
131 1,2,4-Trimethylbenzene	105		12.597				ND	7
132 sec-Butylbenzene	105		12.719				ND	
133 1,3-Dichlorobenzene	146		12.816				ND	
134 4-Isopropyltoluene	119		12.828				ND	7
* 135 1,4-Dichlorobenzene-d4	152	12.877	12.871	0.006	94	646498	10.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
136 1,4-Dichlorobenzene	146		12.889				ND	7
137 1,2,3-Trimethylbenzene	120		12.902				ND	7
138 Benzyl chloride	126		12.969				ND	
139 n-Butylbenzene	92		13.121				ND	
140 1,2-Dichlorobenzene	146		13.152				ND	
141 Hexachloroethane	117		13.542				ND	
142 1,2-Dibromo-3-Chloropropane	155		13.694				ND	
143 1,3,5-Trichlorobenzene	180		13.822				ND	
144 1,2,4-Trichlorobenzene	180		14.243				ND	
145 Hexachlorobutadiene	225		14.322				ND	
146 Naphthalene	128		14.420				ND	
147 1,2,3-Trichlorobenzene	180		14.560				ND	
148 Dodecane	57		0.000				ND	
151 1,1-Dichloroacetone	1		0.000				ND	
152 n-Decane	57		0.000				ND	
153 1-Bromo-3-Chloropropane	1		0.000				ND	
154 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
155 2-Methylnaphthalene	142		0.000				ND	
156 p-Diethylbenzene	1		0.000				ND	
157 t-Amyl alcohol	1		0.000				ND	
158 Methylal	1		0.000				ND	
159 tert-Butyl Formate	1		0.000				ND	
160 2-Bromo-1-chloropropane	1		0.000				ND	
223 1,1,2-Trifluoroethane TIC	1		0.000				ND	
161 Pentane	43		0.000				ND	
149 2-Chloro-1,1,1-Trifluoroethane	1		0.000				ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	
165 Isopropyl alcohol	45		0.000				ND	
217 Freon 115 TIC	1		0.000				ND	
216 Ethyl ether TIC	1		0.000				ND	
215 1-Chloro-1,1-difluoroethane TIC	1		0.000				ND	
214 Dichloro-1,1,2,2-tetrafluoroethane	1		0.000				ND	
213 Chlorofluoromethane TIC	1		0.000				ND	
218 Fluoromethane TIC	1		0.000				ND	
225 1,1-Dichloro-1-fluoroethane TIC	1		0.000				ND	
222 Vinyl Fluoride TIC	1		0.000				ND	
162 Chlorotrifluoroethene	1		0.000				ND	
163 Propene oxide	1		0.000				ND	
221 1,1,1-Trichloro-2,2,2-trifluoroethane	1		0.000				ND	
220 1,2-Dichlorofluoroethane TIC	1		0.000				ND	
219 1,1,1-Trifluoro-2,2-dichloroethane	1		0.000				ND	
164 1-Chloropropane	1		0.000				ND	
166 Ethanol	45		3.269				ND	

### QC Flag Legend

#### Processing Flags

7 - Failed Limit of Detection

#### Review Flags

U - Marked Undetected

**Reagents:**

MSV\_LLcentISS\_00009

Amount Added: 5.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X08.D

Injection Date: 29-Aug-2023 20:12:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-140485-A-6

Lab Sample ID: 410-140485-6

Worklist Smp#: 9

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

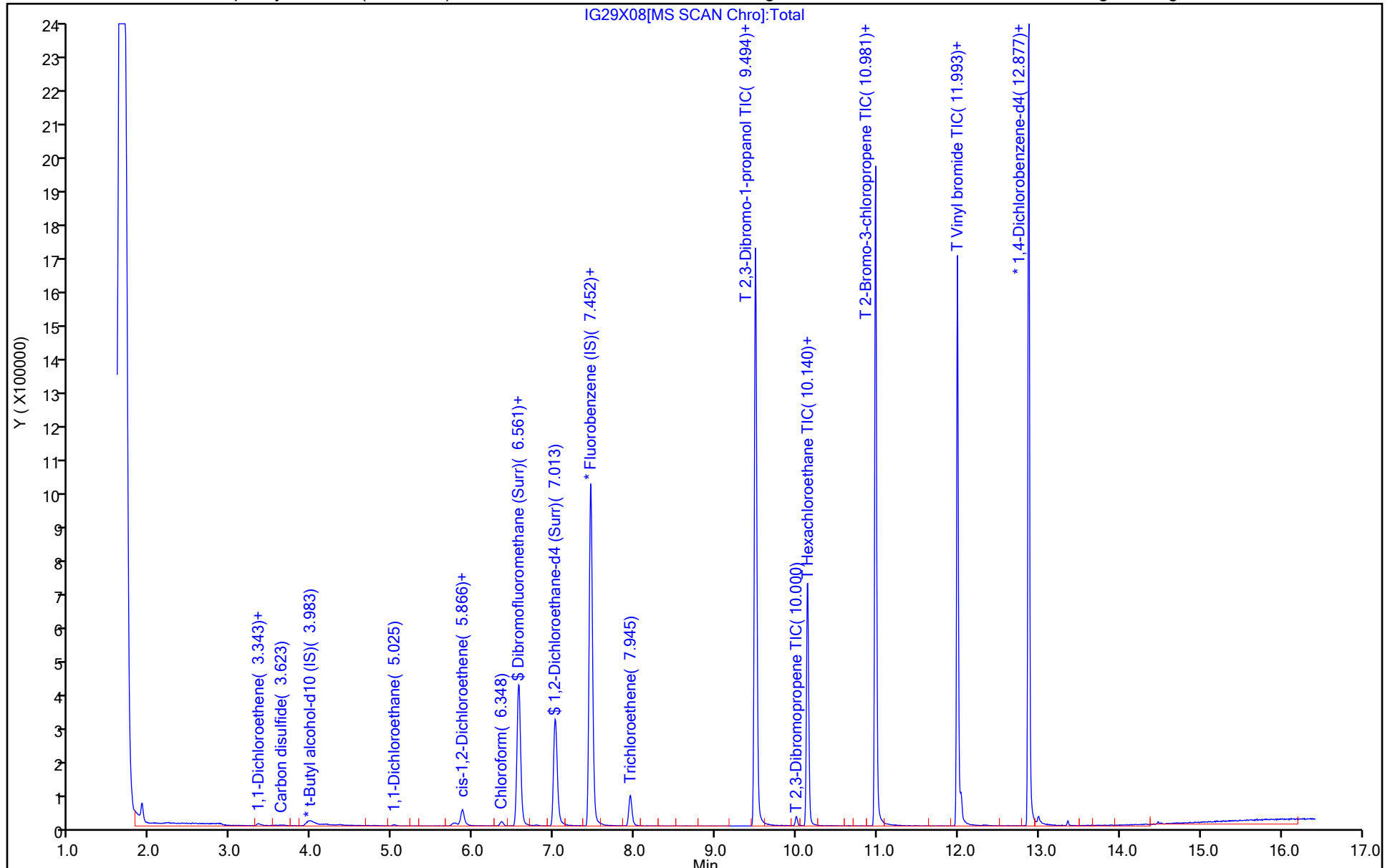
ALS Bottle#: 8

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\20230829-92765.b\IG29X08.D  
 Lims ID: 410-140485-A-6  
 Client ID: HD-COD-SW-15-0/1-0  
 Sample Type: Client  
 Inject. Date: 29-Aug-2023 20:12:30 ALS Bottle#: 8 Worklist Smp#: 9  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-009  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:13:09 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:13:09

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	10.8	108.26
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.9	109.08
\$ 78 Toluene-d8 (Surr)	10.0	9.71	97.07
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.08	90.77

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X08.D

Injection Date: 29-Aug-2023 20:12:30

Instrument ID: 19930

Lims ID: 410-140485-A-6

Lab Sample ID: 410-140485-6

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

Operator ID: gaw91131

ALS Bottle#: 8 Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

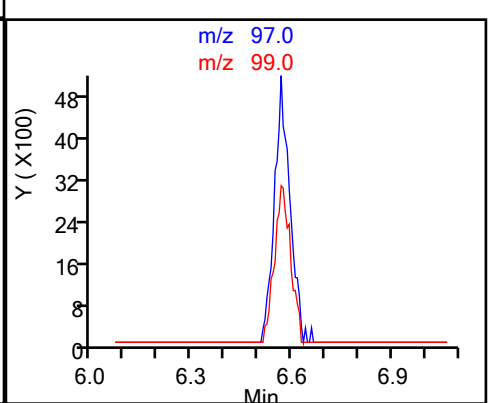
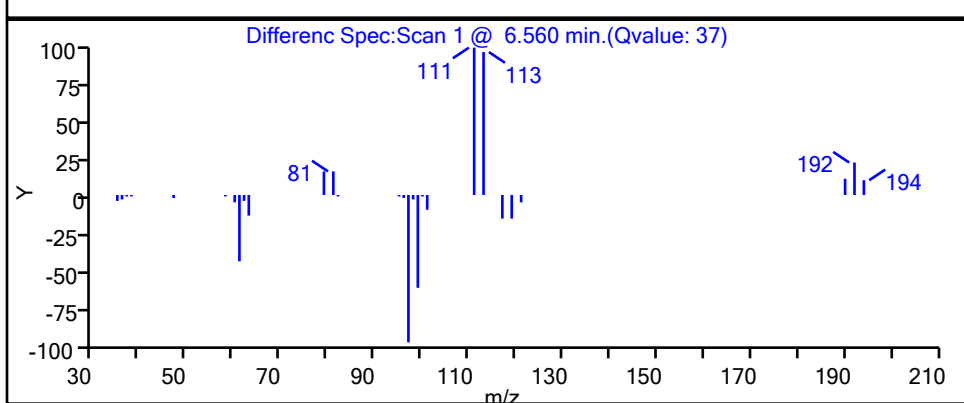
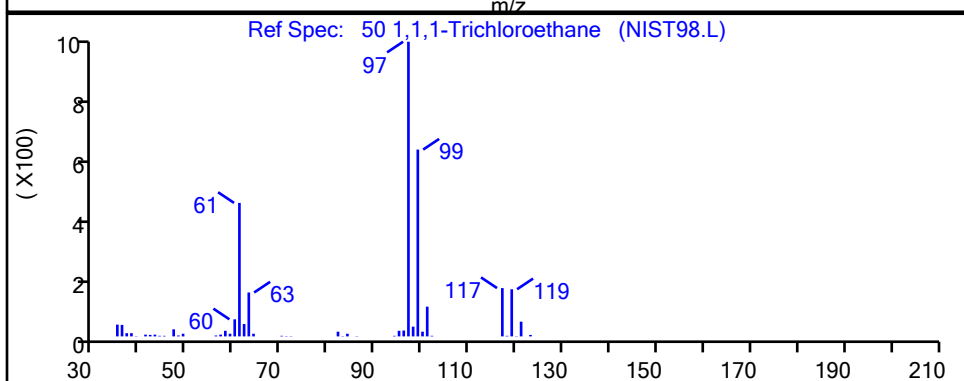
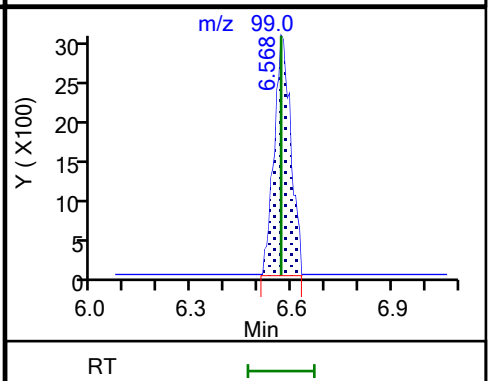
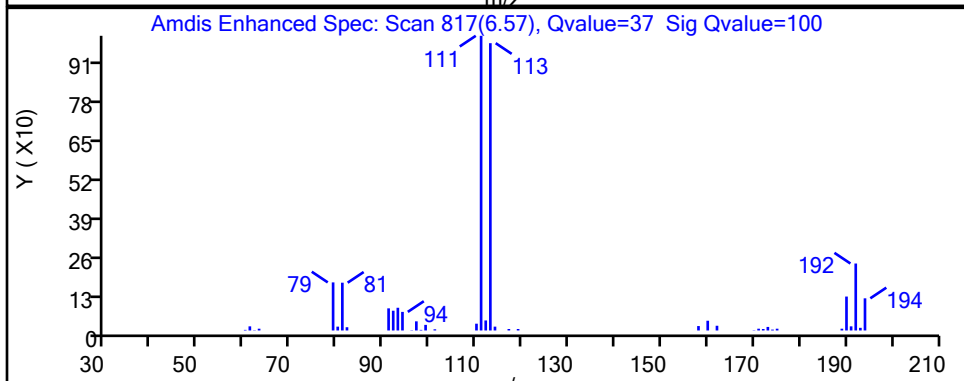
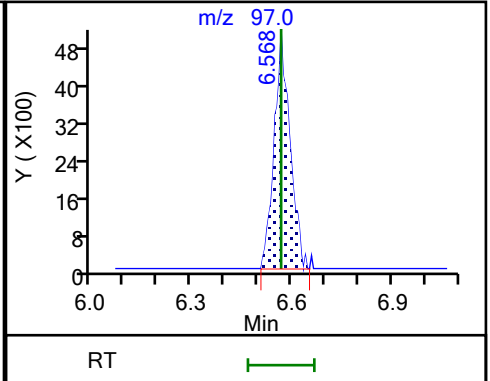
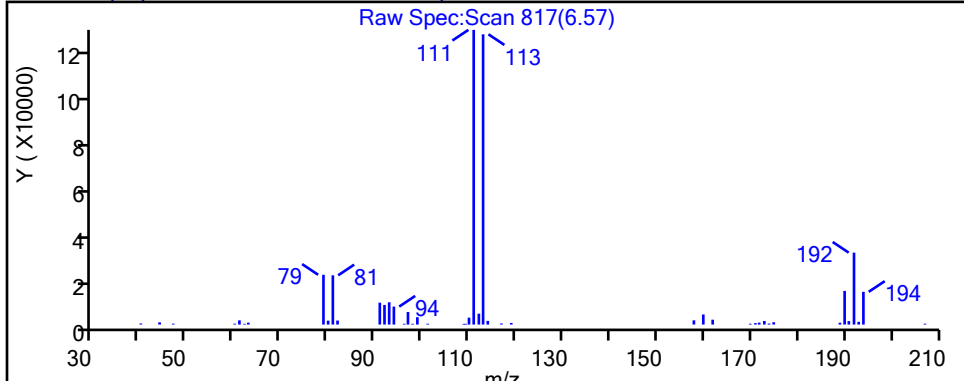
Method: 8260 25ml HP31

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\20230829-92765.b\IG29X08.D

Injection Date: 29-Aug-2023 20:12:30

Instrument ID: 19930

Lims ID: 410-140485-A-6

Lab Sample ID: 410-140485-6

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

Operator ID: gaw91131

ALS Bottle#: 8

Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

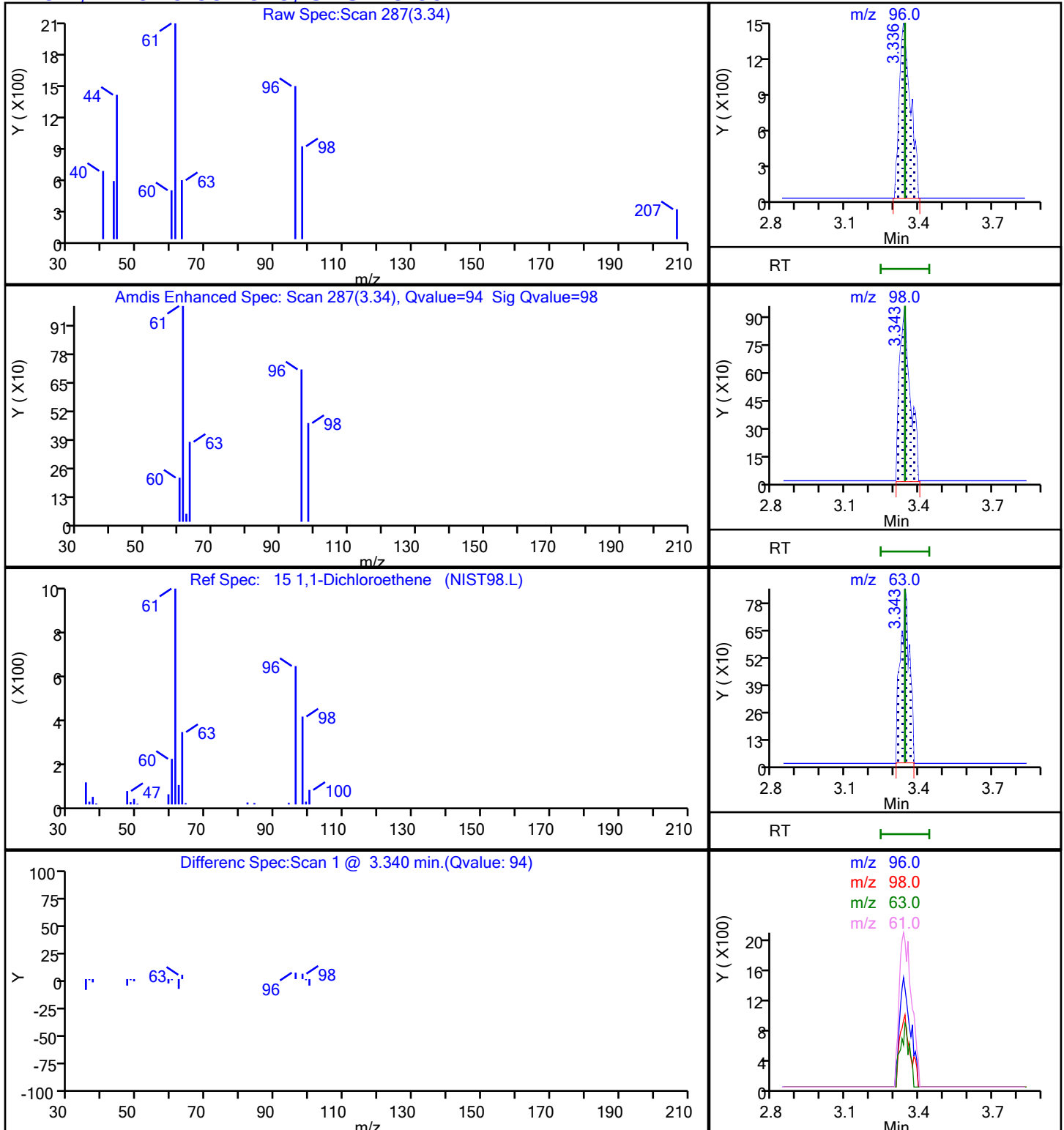
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

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





Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X08.D

Injection Date: 29-Aug-2023 20:12:30

Instrument ID: 19930

Lims ID: 410-140485-A-6

Lab Sample ID: 410-140485-6

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

Operator ID: gaw91131

ALS Bottle#: 8

Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

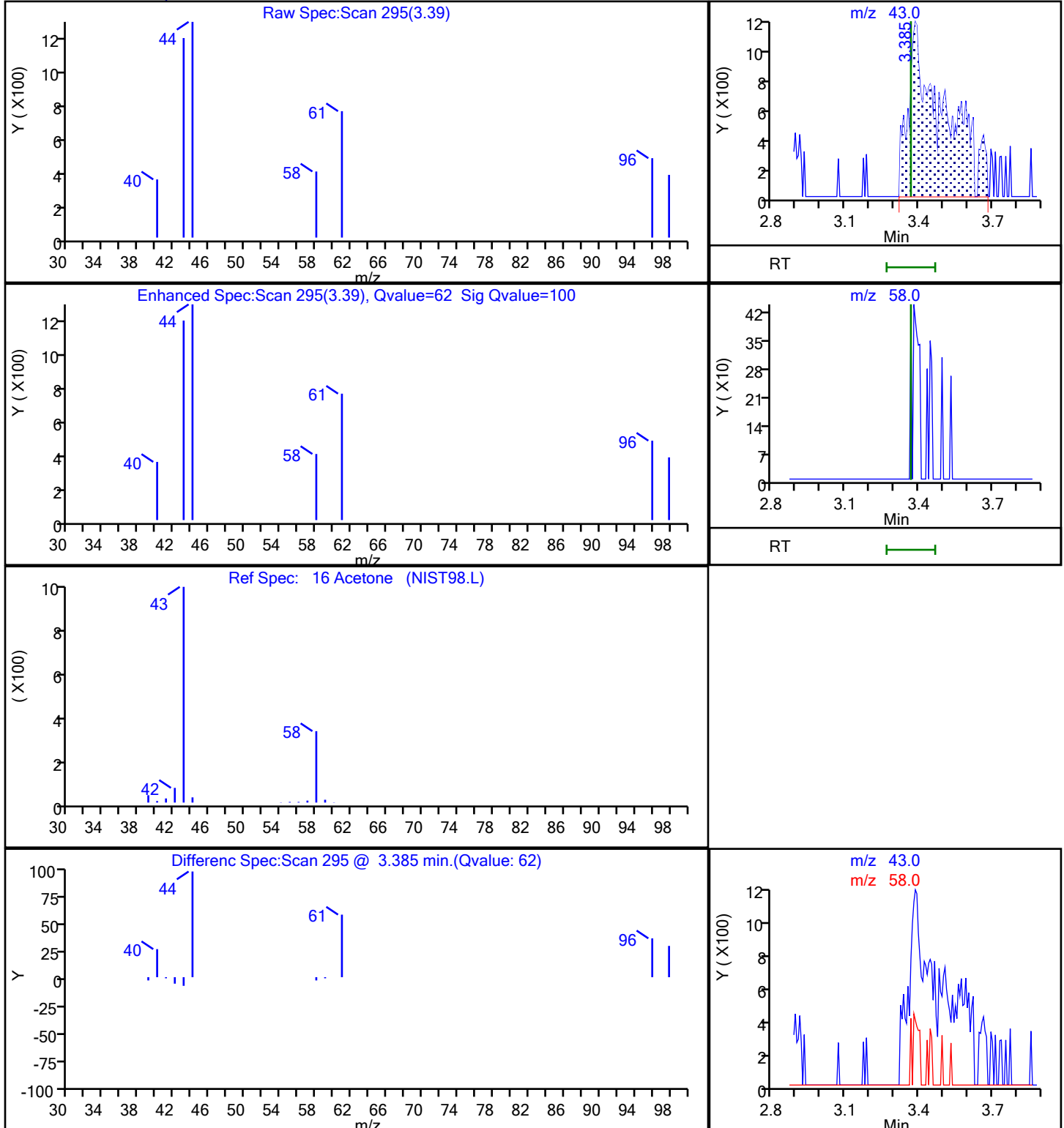
Method: 8260 25ml HP31

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\20230829-92765.b\IG29X08.D

Injection Date: 29-Aug-2023 20:12:30

Instrument ID: 19930

Lims ID: 410-140485-A-6

Lab Sample ID: 410-140485-6

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

Operator ID: gaw91131

ALS Bottle#: 8

Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

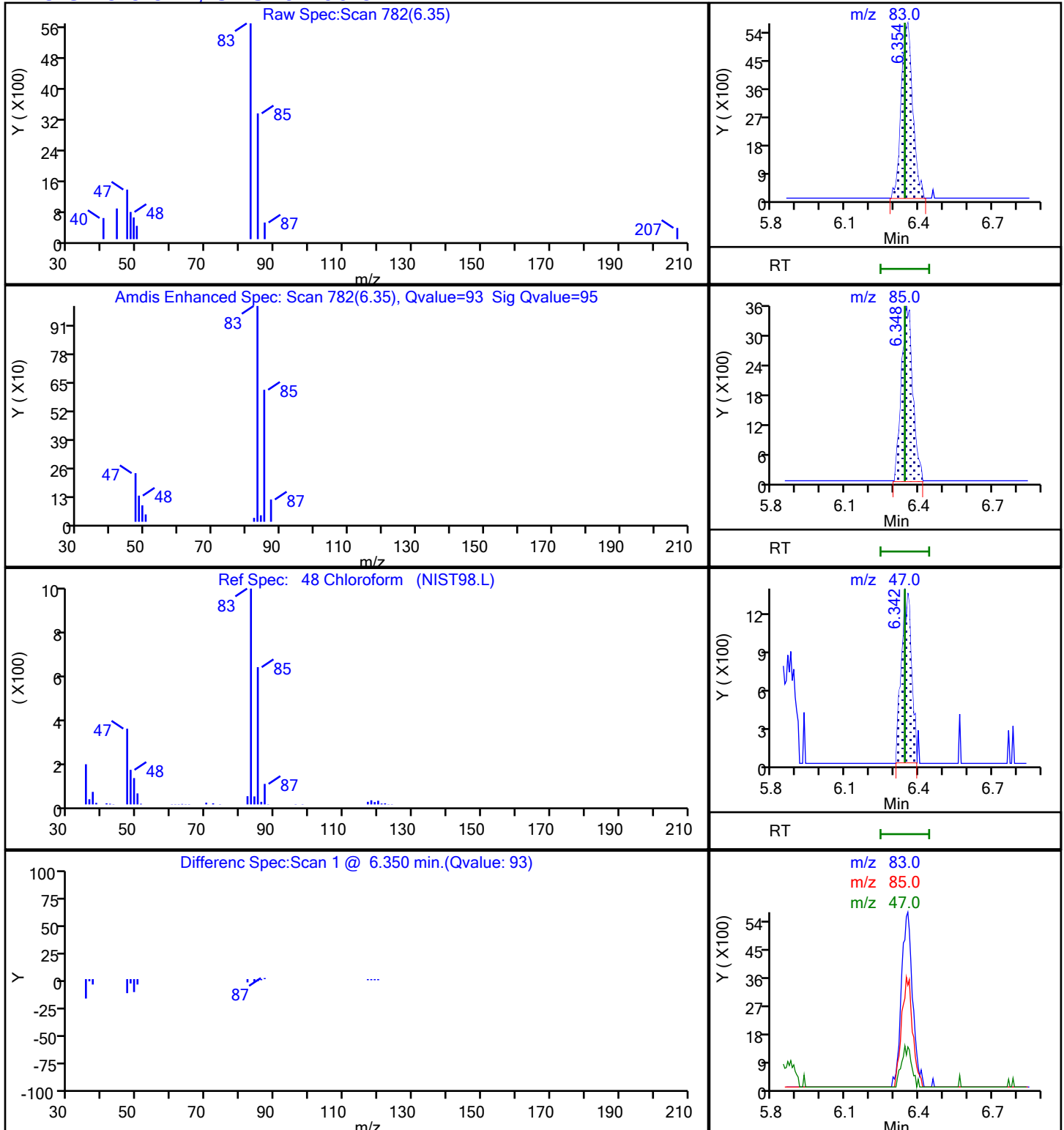
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

### 48 Chloroform, CAS: 67-66-3



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X08.D

Injection Date: 29-Aug-2023 20:12:30

Instrument ID: 19930

Lims ID: 410-140485-A-6

Lab Sample ID: 410-140485-6

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

Operator ID: gaw91131

ALS Bottle#: 8

Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

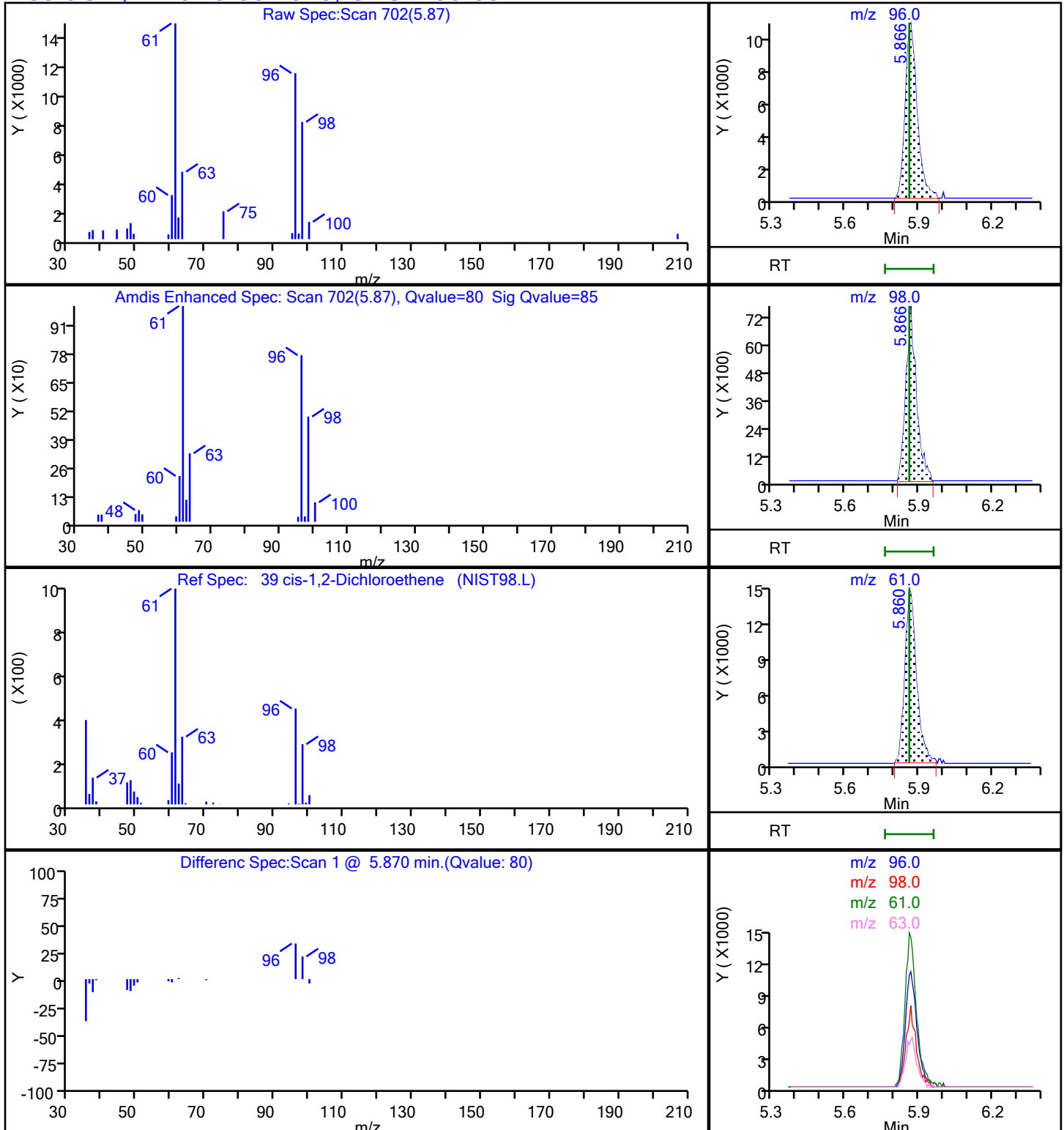
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

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



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X08.D

Injection Date: 29-Aug-2023 20:12:30

Instrument ID: 19930

Lims ID: 410-140485-A-6

Lab Sample ID: 410-140485-6

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

Operator ID: gaw91131

ALS Bottle#: 8

Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

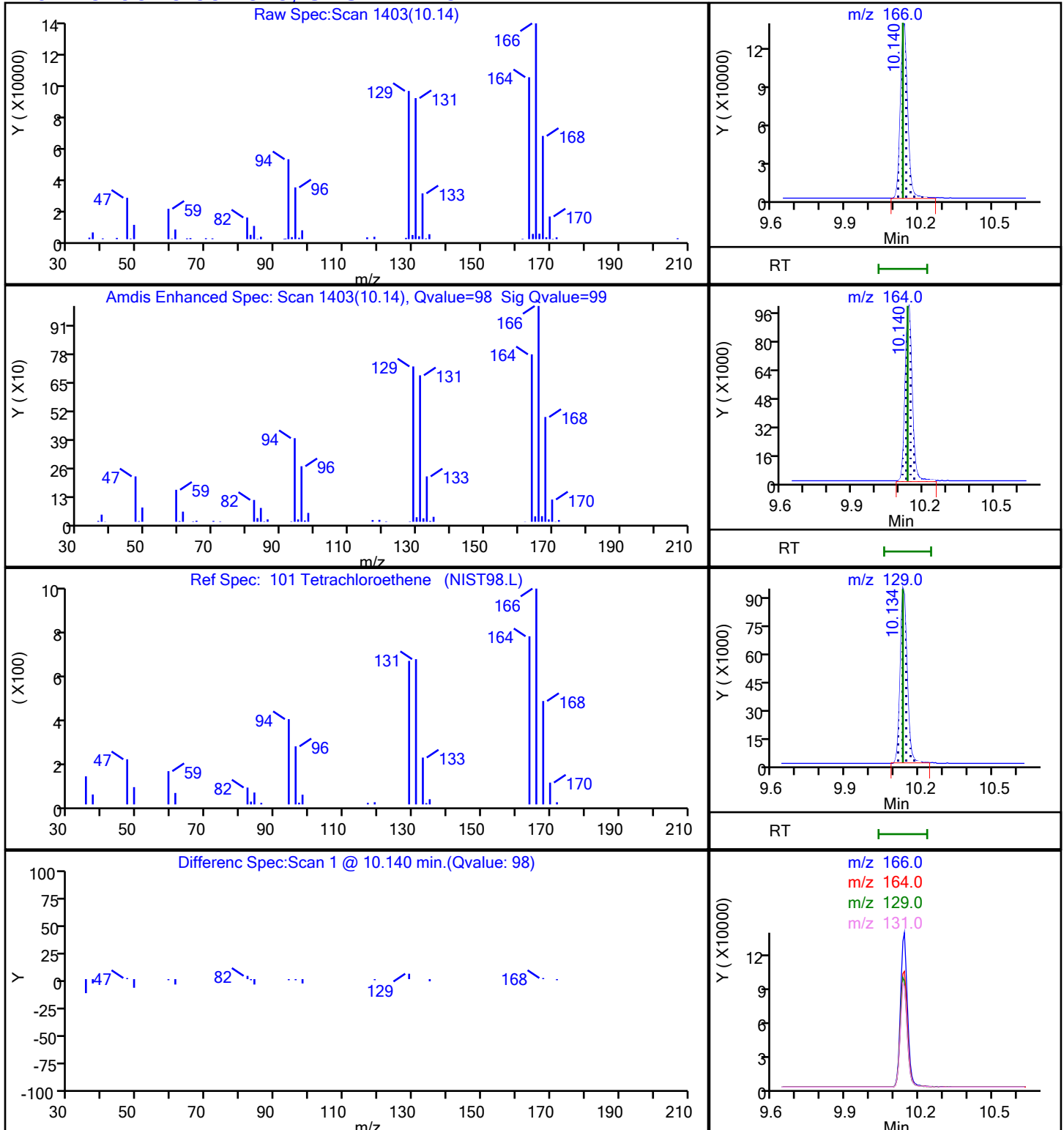
Method: 8260 25ml HP31

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\20230829-92765.b\IG29X08.D

Injection Date: 29-Aug-2023 20:12:30

Instrument ID: 19930

Lims ID: 410-140485-A-6

Lab Sample ID: 410-140485-6

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

Operator ID: gaw91131

ALS Bottle#: 8

Worklist Smp#: 9

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

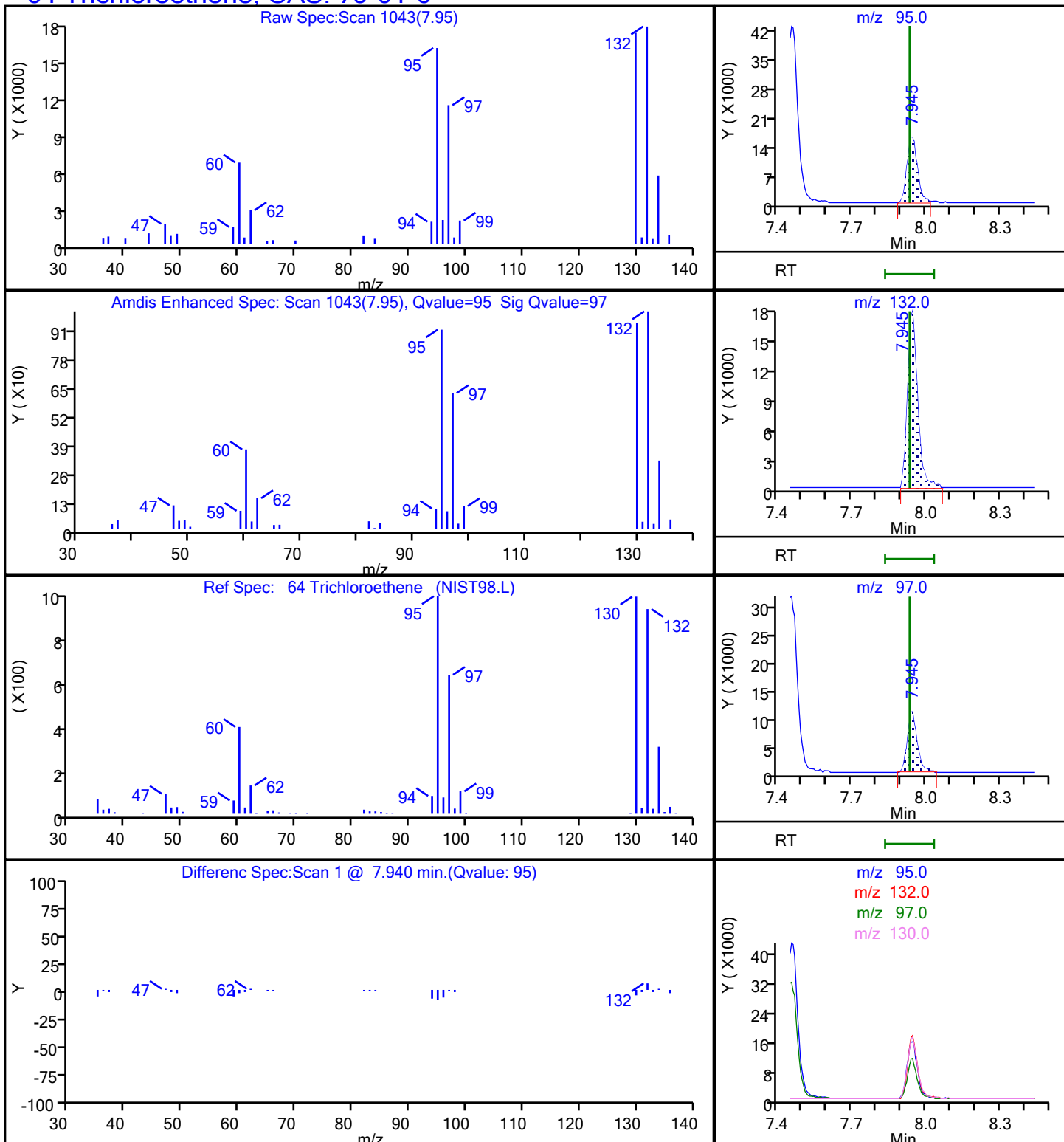
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

### 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.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-7

Matrix: Water

Lab File ID: IG29X17.D

Analysis Method: 8260D

Date Collected: 08/24/2023 10:05

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 23:21

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 413930

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	^c cn	5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.0	J cn	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	0.12	J	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.21	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	1.1		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories  
Environment Testing, LLC

Job No.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-7

Matrix: Water

Lab File ID: IG29X17.D

Analysis Method: 8260D

Date Collected: 08/24/2023 10:05

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 23:21

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 413930

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.18	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
1868-53-7	Dibromofluoromethane (Surr)	112		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\20230829-92765.b\IG29X17.D  
 Lims ID: 410-140485-A-7  
 Client ID: HD-COD-SW-16-0/1-0  
 Sample Type: Client  
 Inject. Date: 29-Aug-2023 23:21:30 ALS Bottle#: 17 Worklist Smp#: 18  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-018  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:16:24 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:17:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.050	2.044	0.006	96	6783	0.1217	
5 Vinyl chloride	62		2.148				ND	7
7 Bromomethane	94		2.471				ND	7
8 Chloroethane	64		2.544				ND	
15 1,1-Dichloroethene	96		3.342				ND	
16 Acetone	43	3.403	3.367	0.036	63	9413	2.01	
20 Carbon disulfide	76	3.653	3.635	0.018	19	4159	0.0417	
25 Methylene Chloride	84		3.964				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.995	3.964	0.031	23	97724	50.0	
29 Methyl tert-butyl ether	73		4.348				ND	
30 trans-1,2-Dichloroethene	96		4.361				ND	
32 1,1-Dichloroethane	63		5.019				ND	
38 2-Butanone (MEK)	43		5.824				ND	
39 cis-1,2-Dichloroethene	96	5.872	5.860	0.012	77	9460	0.2078	
46 Chlorobromomethane	128		6.196				ND	
48 Chloroform	83	6.366	6.342	0.024	87	5643	0.0779	
\$ 49 Dibromofluoromethane (Surr)	113	6.567	6.561	0.006	94	392645	11.2	
50 1,1,1-Trichloroethane	97	6.574	6.567	0.007	80	5300	0.0784	
54 Carbon tetrachloride	117		6.787				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.012	0.007	63	77959	11.2	
57 Benzene	78		7.049				ND	
58 1,2-Dichloroethane	62		7.116				ND	
* 61 Fluorobenzene (IS)	96	7.458	7.451	0.007	99	1370624	10.0	
64 Trichloroethene	95	7.957	7.933	0.024	95	8095	0.1798	
66 1,2-Dichloropropane	63		8.262				ND	
71 Dichlorobromomethane	83		8.616				ND	
76 cis-1,3-Dichloropropene	75		9.177				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.353				ND	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.494	0.000	94	1432136	10.1	
79 Toluene	92		9.567				ND	7
97 trans-1,3-Dichloropropene	75		9.841				ND	
100 1,1,2-Trichloroethane	97		10.048				ND	



Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.140	10.134	0.006	97	64974	1.11	
103 2-Hexanone	43		10.262				ND	
105 Chlorodibromomethane	129		10.433				ND	
106 Ethylene Dibromide	107		10.542				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.981	10.981	0.000	85	1105250	10.0	
109 Chlorobenzene	112		11.006				ND	
111 1,1,1,2-Tetrachloroethane	131		11.091				ND	
112 Ethylbenzene	91		11.091				ND	
113 m-Xylene & p-Xylene	106		11.213				ND	7
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.542				ND	
115 Styrene	104		11.560				ND	
116 Bromoform	173		11.719				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.993	11.987	0.006	93	495559	9.26	
121 1,1,2,2-Tetrachloroethane	83		12.091				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.877	12.871	0.006	94	620829	10.0	

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

**Reagents:**

MSV\_LLcentISS\_00009

Amount Added: 5.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X17.D

Injection Date: 29-Aug-2023 23:21:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-140485-A-7

Lab Sample ID: 410-140485-7

Worklist Smp#: 18

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

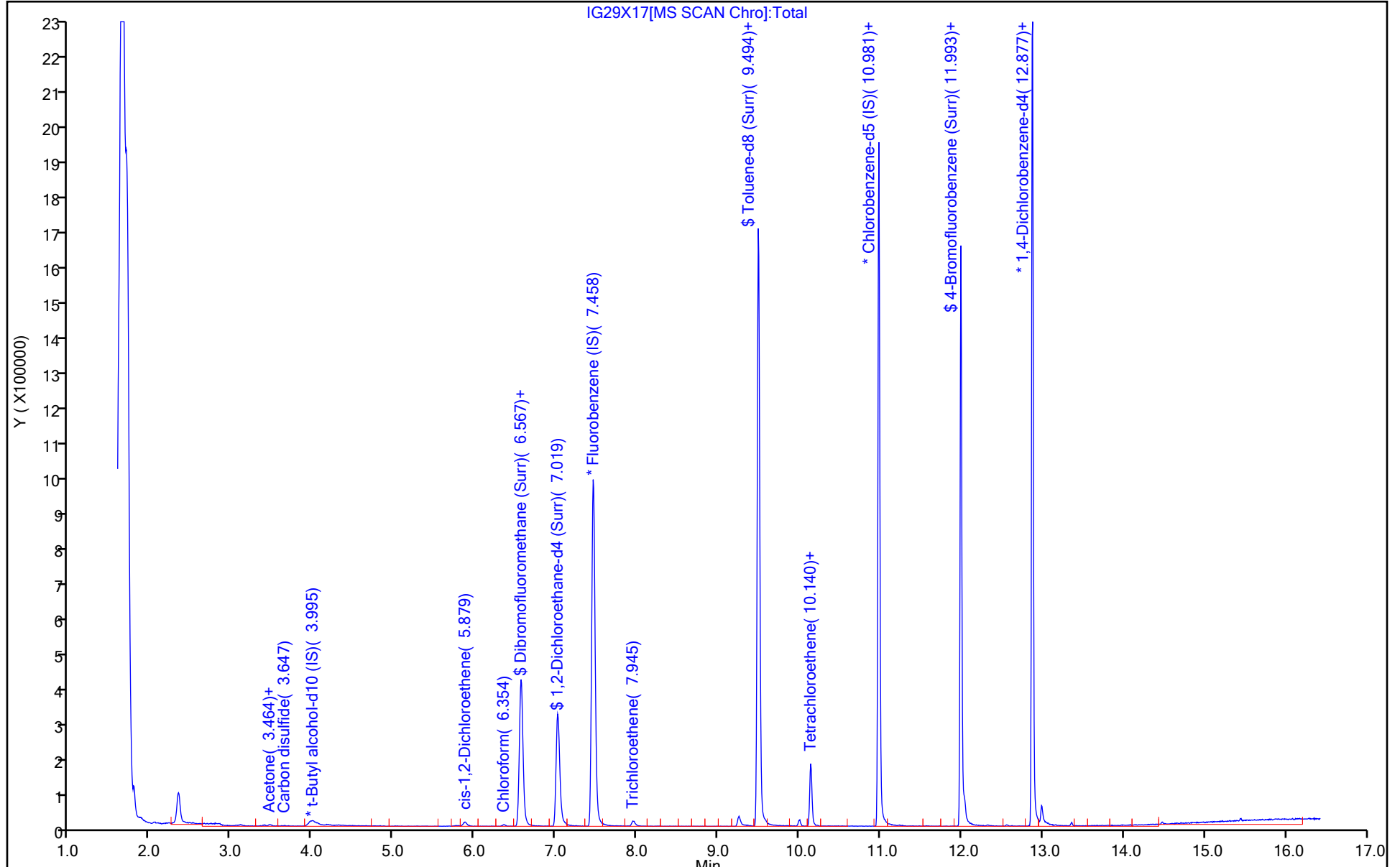
ALS Bottle#: 17

Method: 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\20230829-92765.b\IG29X17.D  
 Lims ID: 410-140485-A-7  
 Client ID: HD-COD-SW-16-0/1-0  
 Sample Type: Client  
 Inject. Date: 29-Aug-2023 23:21:30 ALS Bottle#: 17 Worklist Smp#: 18  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-018  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:16:24 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp

Date: 30-Aug-2023 14:17:19

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	11.2	111.53
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	11.2	111.68
\$ 78 Toluene-d8 (Surr)	10.0	10.1	100.79
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.26	92.55

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X17.D

Injection Date: 29-Aug-2023 23:21:30

Instrument ID: 19930

Lims ID: 410-140485-A-7

Lab Sample ID: 410-140485-7

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

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

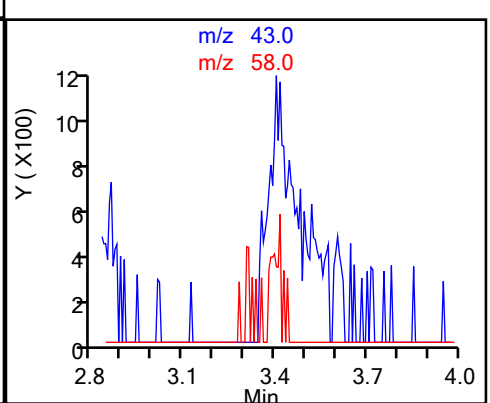
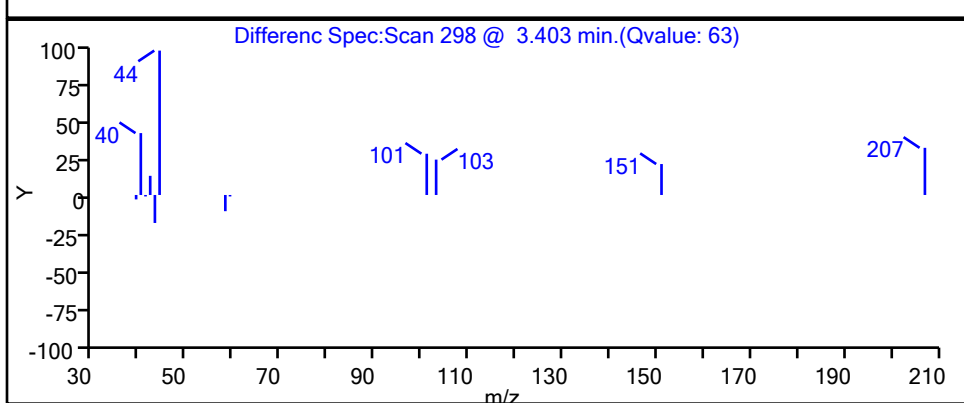
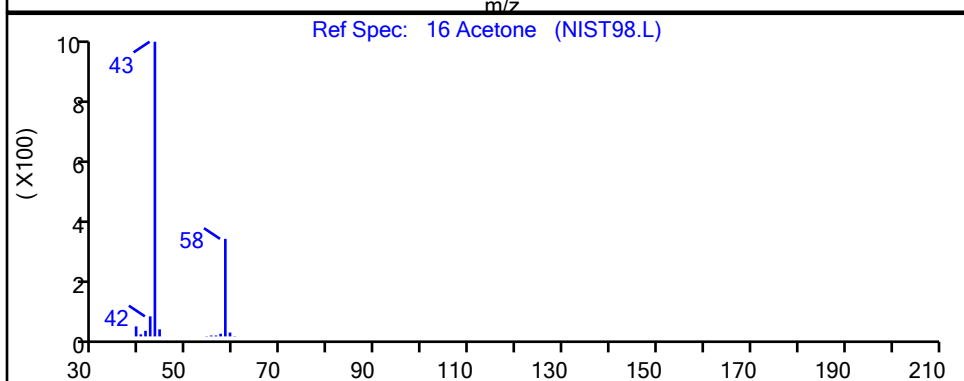
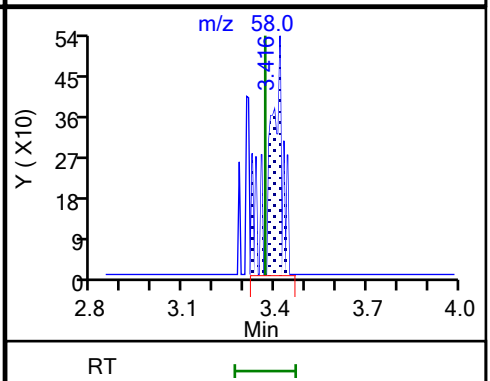
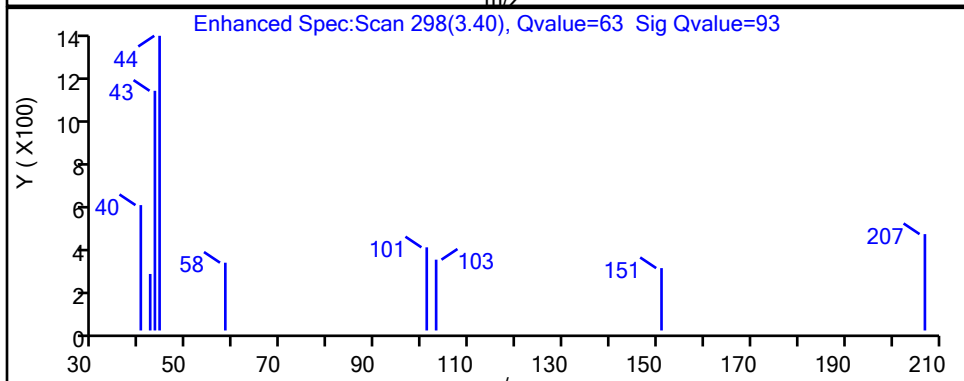
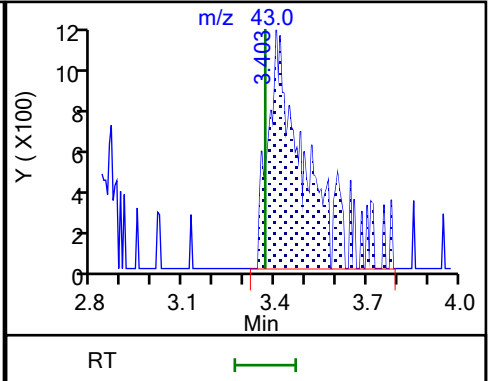
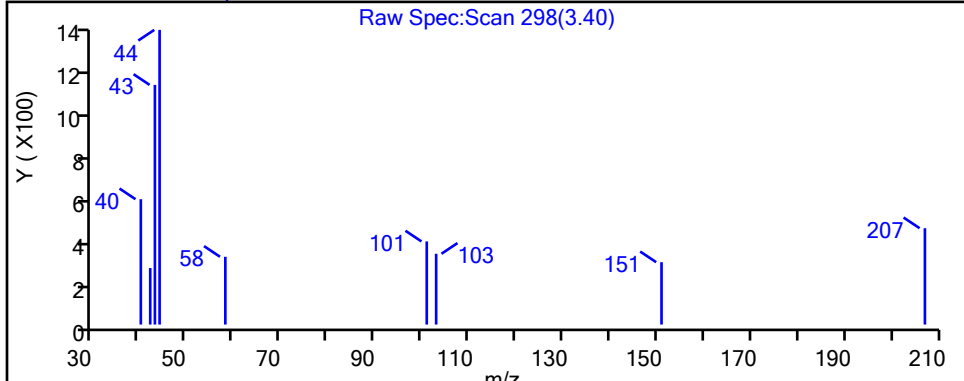
Method: 8260 25ml HP31

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\20230829-92765.b\IG29X17.D

Injection Date: 29-Aug-2023 23:21:30

Instrument ID: 19930

Lims ID: 410-140485-A-7

Lab Sample ID: 410-140485-7

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

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

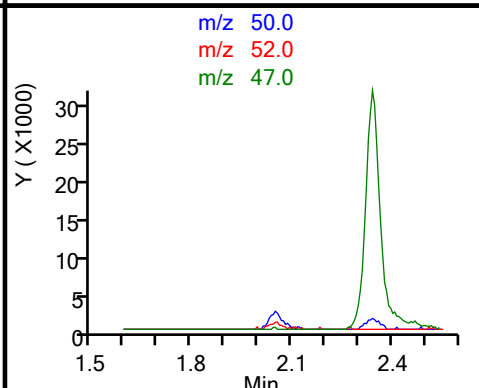
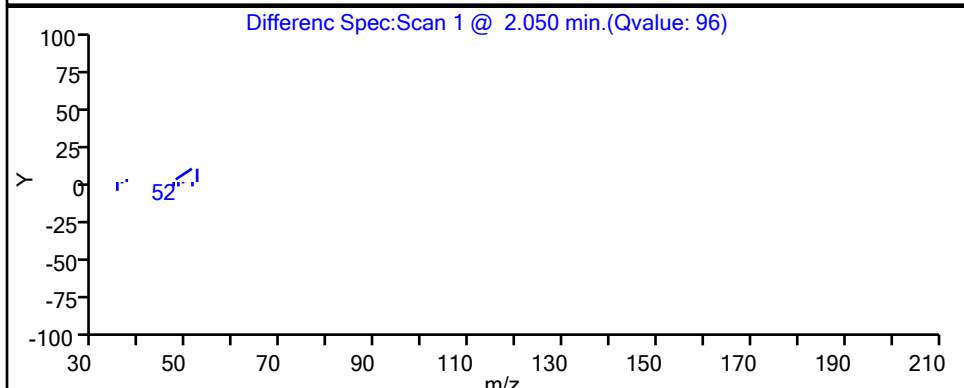
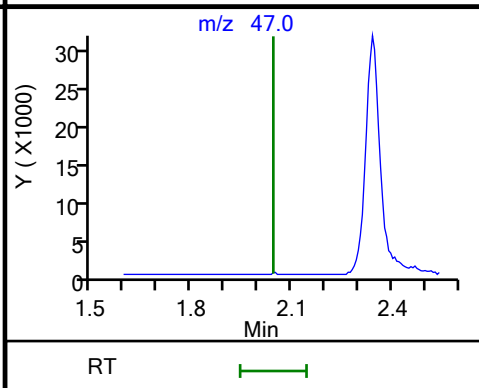
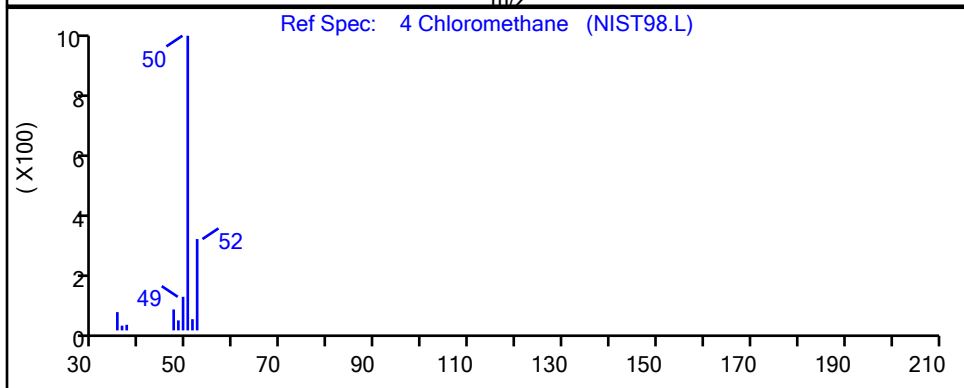
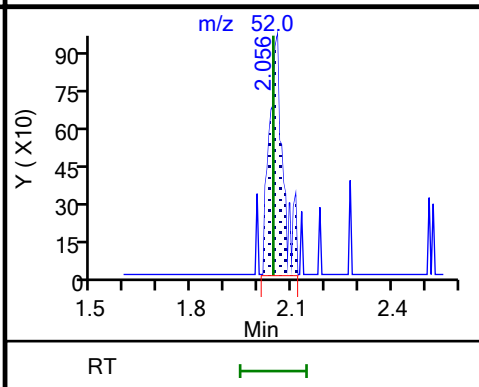
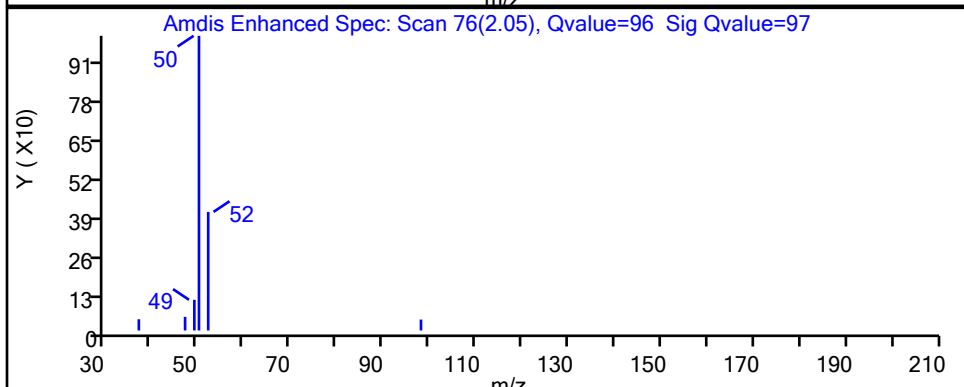
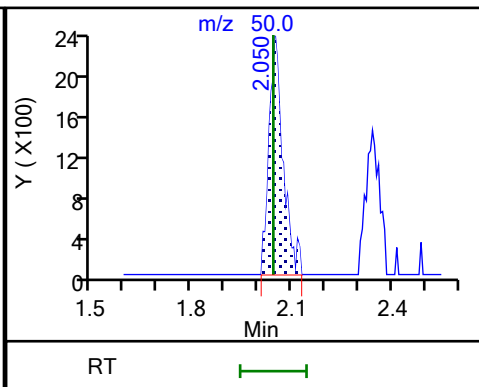
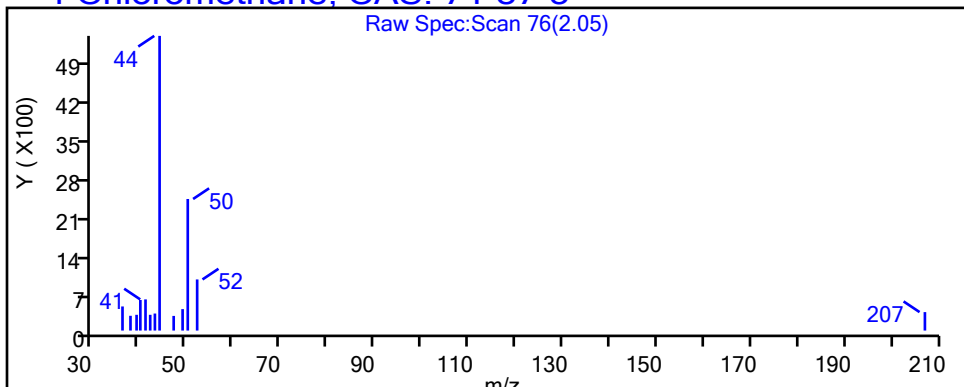
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

### 4 Chloromethane, CAS: 74-87-3



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X17.D

Injection Date: 29-Aug-2023 23:21:30

Instrument ID: 19930

Lims ID: 410-140485-A-7

Lab Sample ID: 410-140485-7

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

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

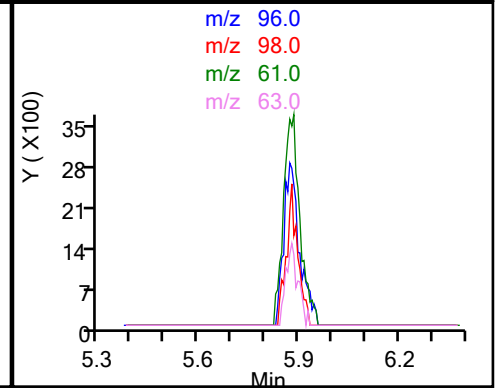
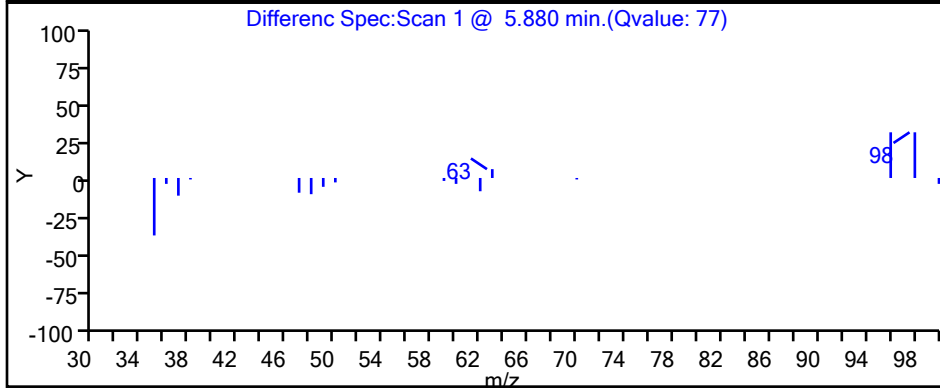
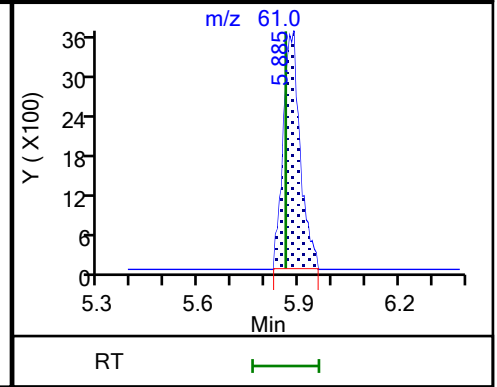
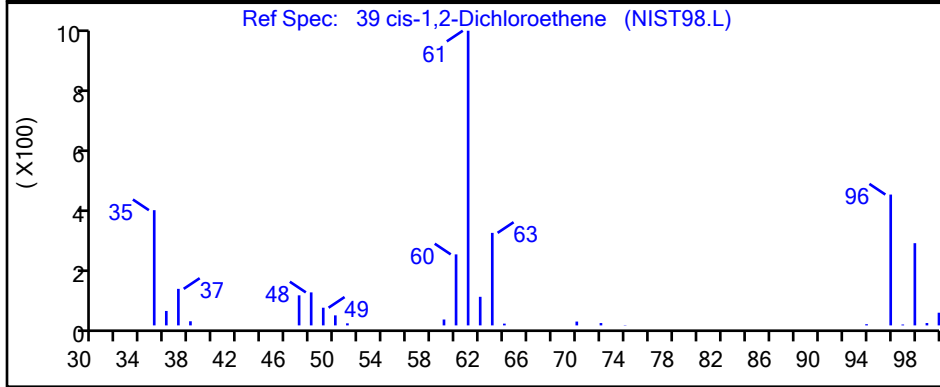
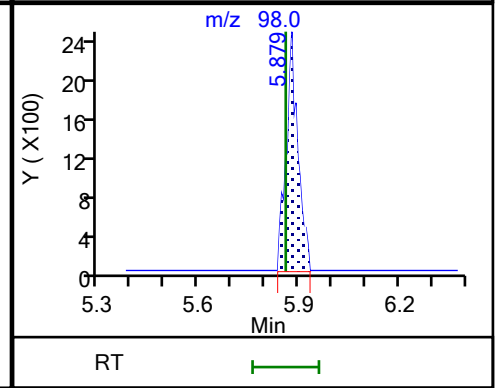
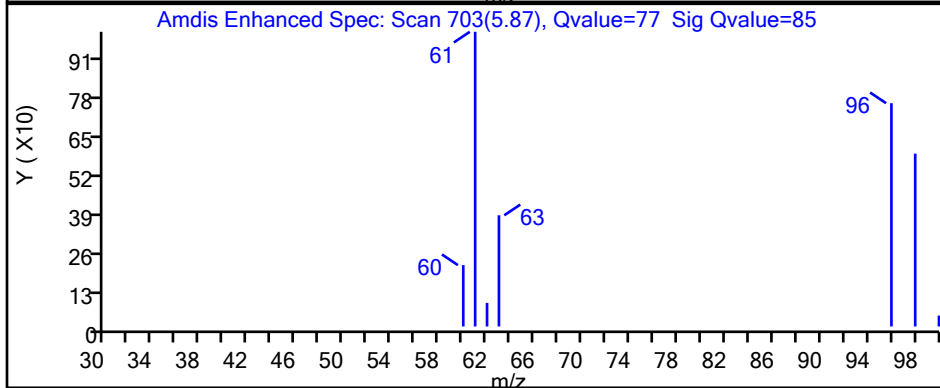
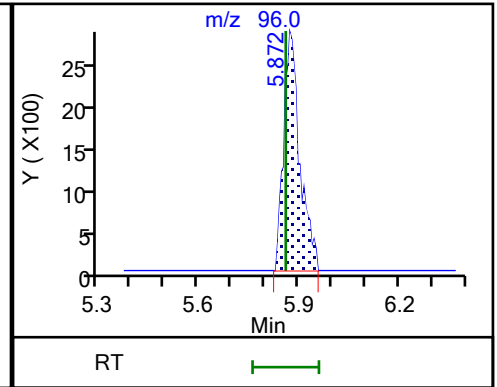
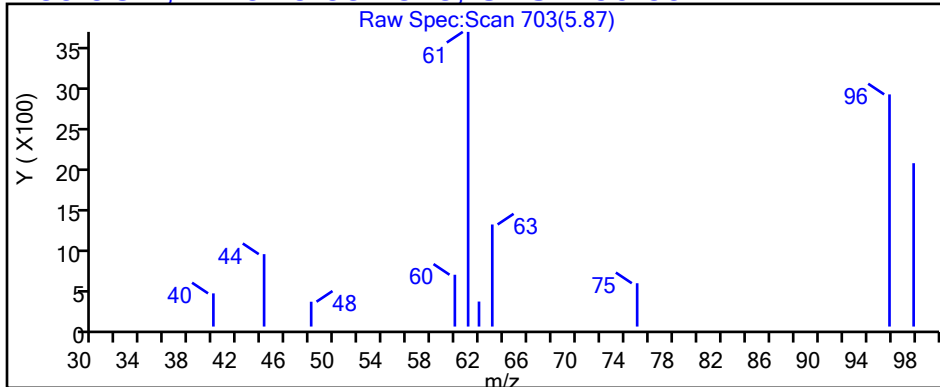
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

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



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X17.D

Injection Date: 29-Aug-2023 23:21:30

Instrument ID: 19930

Lims ID: 410-140485-A-7

Lab Sample ID: 410-140485-7

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

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

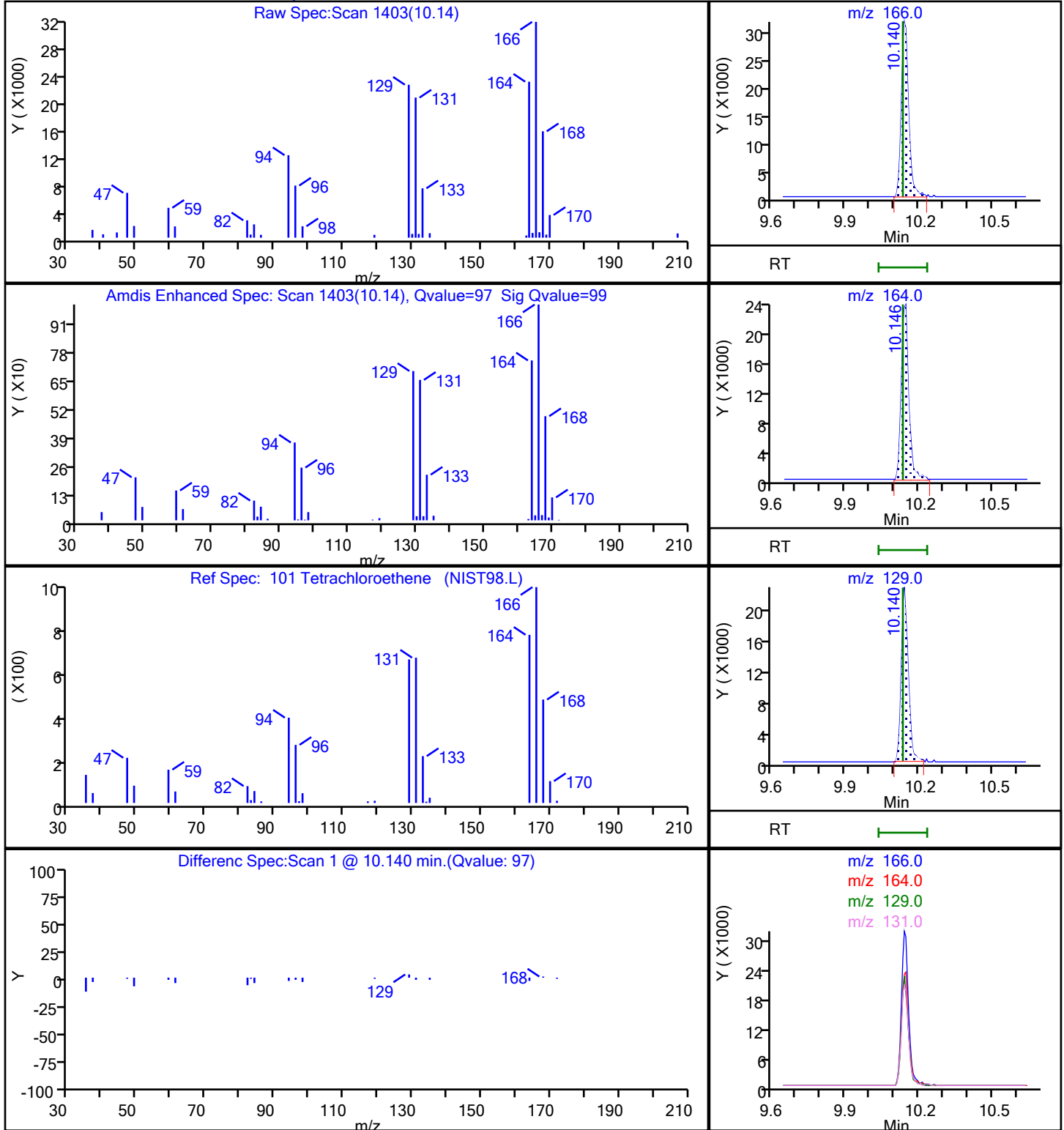
Method: 8260 25ml HP31

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\20230829-92765.b\IG29X17.D

Injection Date: 29-Aug-2023 23:21:30

Instrument ID: 19930

Lims ID: 410-140485-A-7

Lab Sample ID: 410-140485-7

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

Operator ID: gaw91131

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

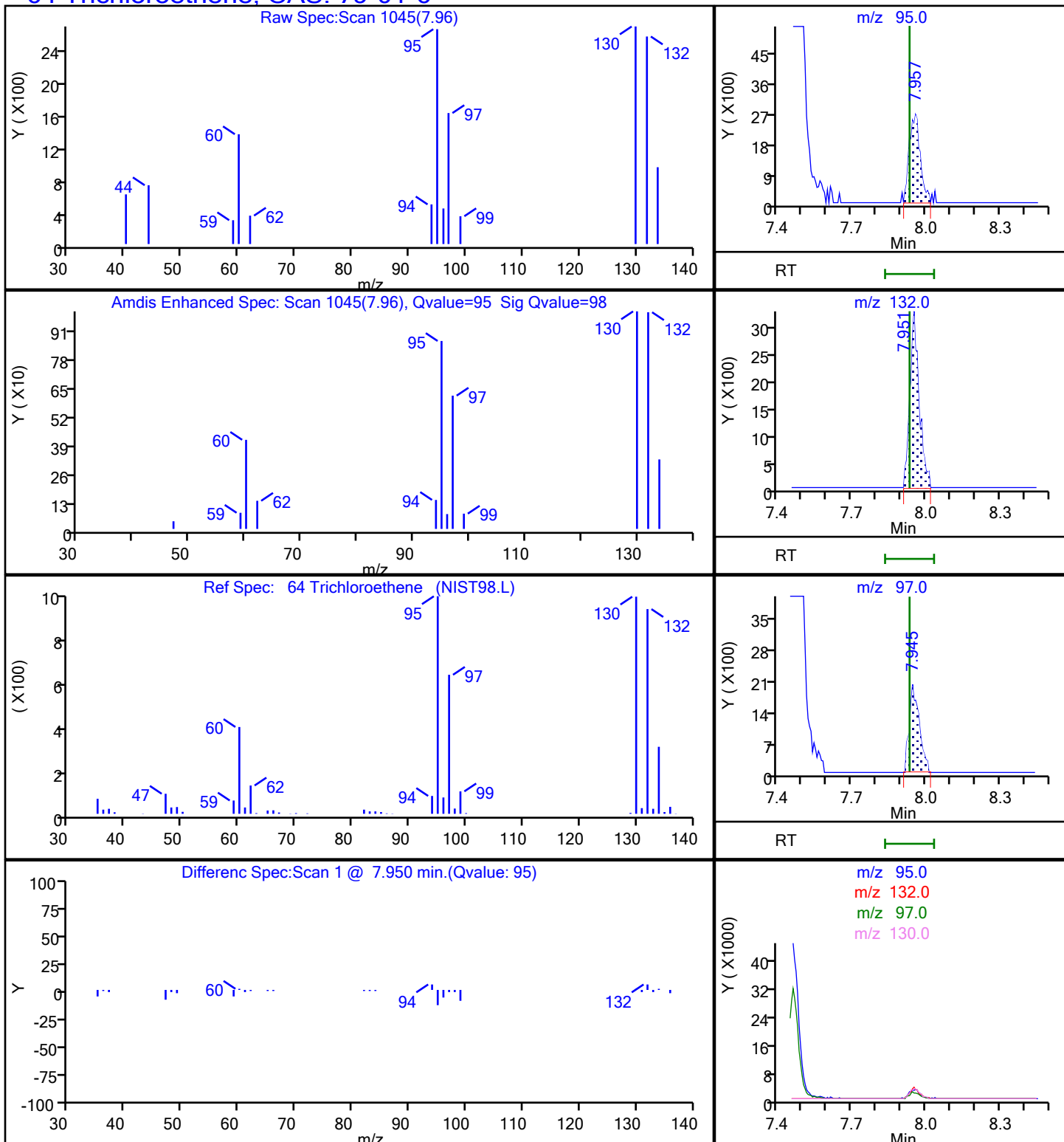
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

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.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-8

Matrix: Water

Lab File ID: IG29X27.D

Analysis Method: 8260D

Date Collected: 08/24/2023 10:16

Sample wt/vol: 25 (mL)

Date Analyzed: 08/30/2023 02:51

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.: 413930

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	8.5		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	1.8		0.50	0.10
75-35-4	1,1-Dichloroethene	0.71		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	^c cn	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	0.22	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	2.5		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
108-88-3	Toluene	ND		0.50	0.080
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.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-8

Matrix: Water

Lab File ID: IG29X27.D

Analysis Method: 8260D

Date Collected: 08/24/2023 10:16

Sample wt/vol: 25 (mL)

Date Analyzed: 08/30/2023 02:51

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.: 413930

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	4.7		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	110		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X27.D  
 Lims ID: 410-140485-A-8  
 Client ID: HD-COD-SW-17-0/1-0  
 Sample Type: Client  
 Inject. Date: 30-Aug-2023 02:51:30 ALS Bottle#: 27 Worklist Smp#: 28  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-028  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:23:18 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp

Date: 30-Aug-2023 14:23:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.044				ND	
5 Vinyl chloride	62		2.148				ND	7
7 Bromomethane	94		2.471				ND	
8 Chloroethane	64		2.544				ND	
15 1,1-Dichloroethene	96	3.342	3.342	0.000	97	27135	0.7111	
16 Acetone	43		3.367				ND	U
20 Carbon disulfide	76		3.635				ND	
25 Methylene Chloride	84		3.964				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.995	3.964	0.031	29	107322	50.0	
29 Methyl tert-butyl ether	73	4.348	4.348	0.000	11	3344	0.0319	
30 trans-1,2-Dichloroethene	96	4.373	4.361	0.012	5	1257	0.0296	
32 1,1-Dichloroethane	63	5.025	5.019	0.006	96	130141	1.79	
38 2-Butanone (MEK)	43		5.824				ND	
39 cis-1,2-Dichloroethene	96	5.866	5.860	0.006	80	115824	2.45	
46 Chlorobromomethane	128		6.196				ND	
48 Chloroform	83	6.348	6.342	0.006	93	16530	0.2199	
\$ 49 Dibromofluoromethane (Surr)	113	6.567	6.561	0.006	93	400843	11.0	
50 1,1,1-Trichloroethane	97	6.574	6.567	0.007	98	593540	8.46	
54 Carbon tetrachloride	117	6.781	6.787	-0.006	1	1997	0.0319	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.012	0.007	63	79522	11.0	
57 Benzene	78		7.049				ND	
58 1,2-Dichloroethane	62		7.116				ND	
* 61 Fluorobenzene (IS)	96	7.457	7.451	0.006	99	1422947	10.0	
64 Trichloroethene	95	7.939	7.933	0.006	97	218805	4.68	
66 1,2-Dichloropropane	63		8.262				ND	
71 Dichlorobromomethane	83		8.616				ND	
76 cis-1,3-Dichloropropene	75		9.177				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.353				ND	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.494	0.000	94	1447104	9.61	
79 Toluene	92		9.567				ND	
97 trans-1,3-Dichloropropene	75		9.841				ND	
100 1,1,2-Trichloroethane	97		10.048				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.134	10.134	0.000	98	6951471	112.2	E
103 2-Hexanone	43		10.262				ND	
105 Chlorodibromomethane	129		10.433				ND	
106 Ethylene Dibromide	107		10.542				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.981	10.981	0.000	85	1171048	10.0	
109 Chlorobenzene	112	11.012	11.006	0.006	79	2050	0.0148	a
111 1,1,1,2-Tetrachloroethane	131		11.091				ND	
112 Ethylbenzene	91		11.091				ND	
113 m-Xylene & p-Xylene	106		11.213				ND	
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.542				ND	
115 Styrene	104		11.560				ND	
116 Bromoform	173		11.719				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.993	11.987	0.006	93	515321	9.08	
121 1,1,2,2-Tetrachloroethane	83		12.091				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.877	12.871	0.006	94	644733	10.0	

### QC Flag Legend

#### Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

#### Review Flags

U - Marked Undetected

a - User Assigned ID

### Reagents:

MSV\_LLcentISS\_00009

Amount Added: 5.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X27.D

Injection Date: 30-Aug-2023 02:51:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-140485-A-8

Lab Sample ID: 410-140485-8

Worklist Smp#: 28

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

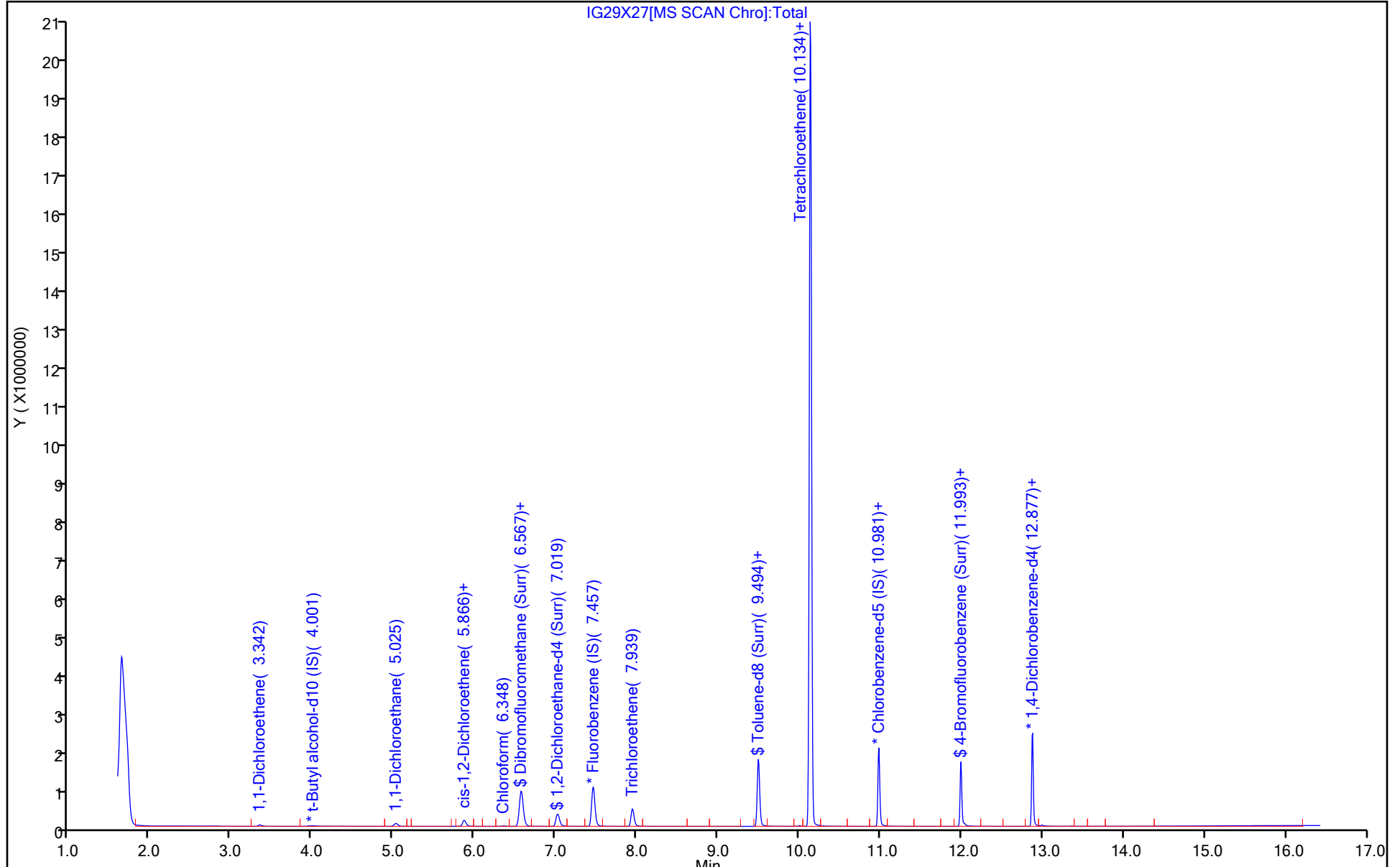
ALS Bottle#: 27

Method: 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\20230829-92765.b\IG29X27.D  
 Lims ID: 410-140485-A-8  
 Client ID: HD-COD-SW-17-0/1-0  
 Sample Type: Client  
 Inject. Date: 30-Aug-2023 02:51:30 ALS Bottle#: 27 Worklist Smp#: 28  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-028  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:23:18 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:23:18

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	11.0	109.67
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	11.0	109.73
\$ 78 Toluene-d8 (Surr)	10.0	9.61	96.12
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.08	90.84

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X27.D

Injection Date: 30-Aug-2023 02:51:30

Instrument ID: 19930

Lims ID: 410-140485-A-8

Lab Sample ID: 410-140485-8

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

Operator ID: gaw91131

ALS Bottle#: 27

Worklist Smp#: 28

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

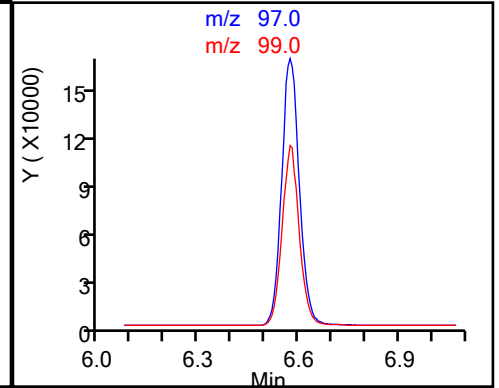
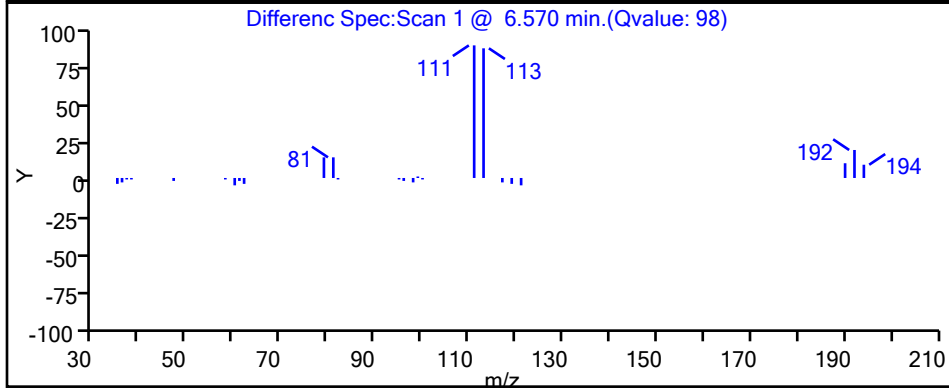
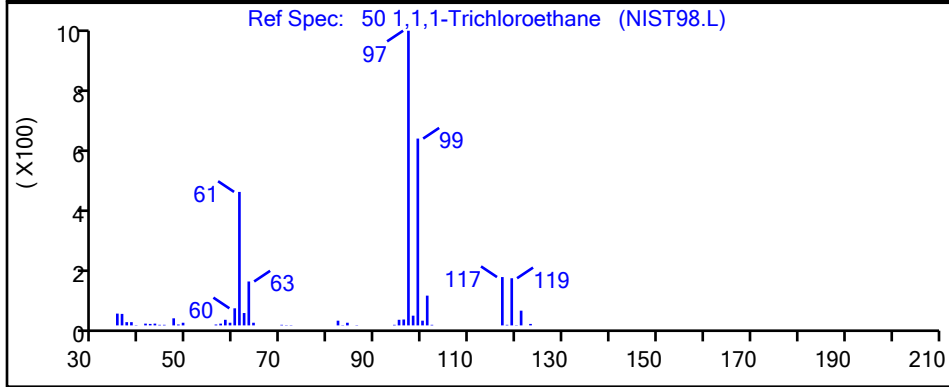
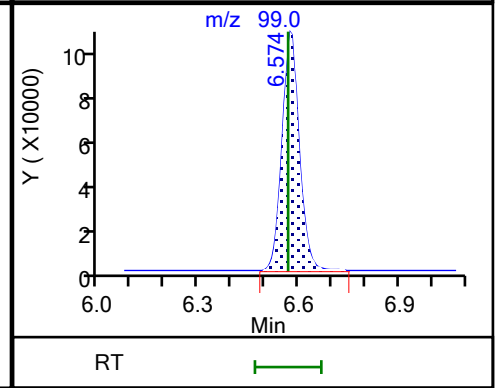
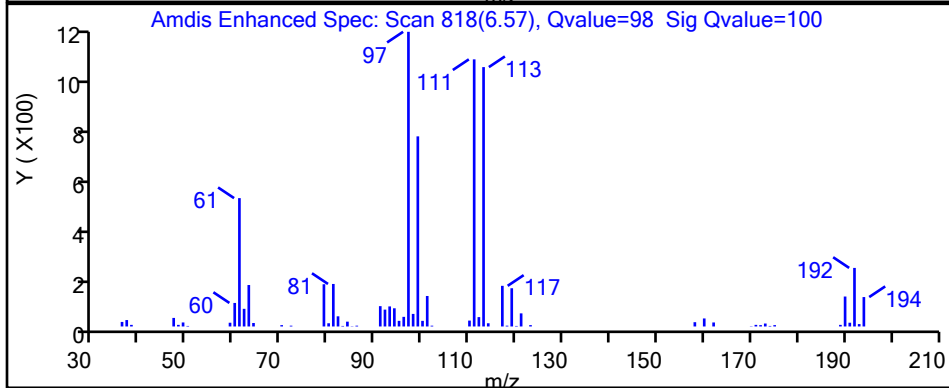
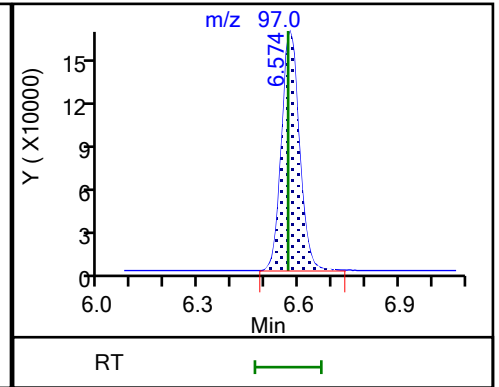
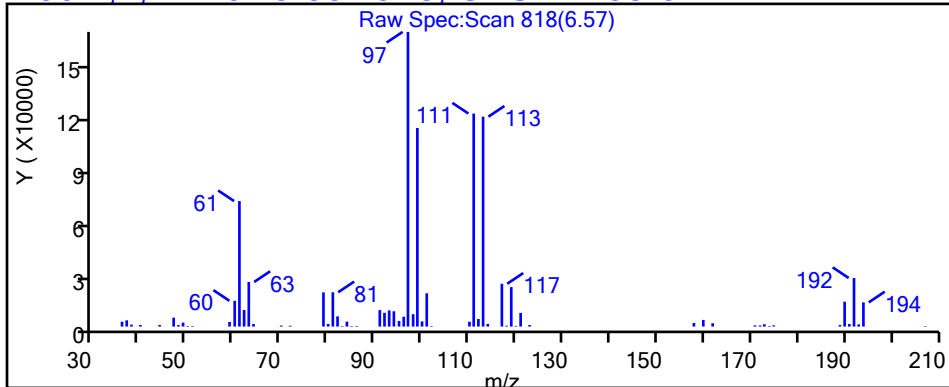
Method: 8260 25ml HP31

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\20230829-92765.b\IG29X27.D

Injection Date: 30-Aug-2023 02:51:30

Instrument ID: 19930

Lims ID: 410-140485-A-8

Lab Sample ID: 410-140485-8

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

Operator ID: gaw91131

ALS Bottle#: 27

Worklist Smp#: 28

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

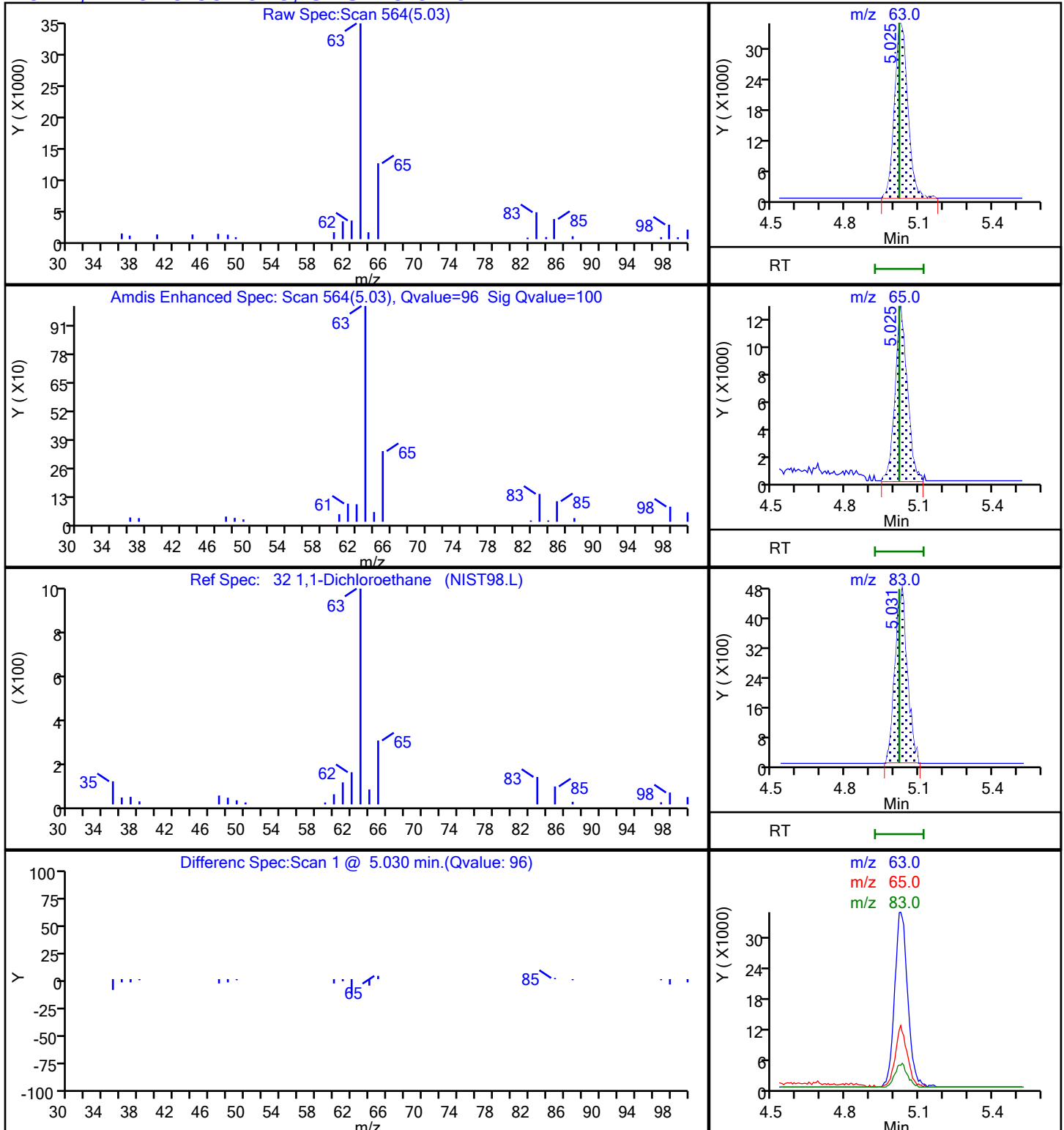
Method: 8260 25ml HP31

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\20230829-92765.b\IG29X27.D

Injection Date: 30-Aug-2023 02:51:30

Instrument ID: 19930

Lims ID: 410-140485-A-8

Lab Sample ID: 410-140485-8

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

Operator ID: gaw91131

ALS Bottle#: 27

Worklist Smp#: 28

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

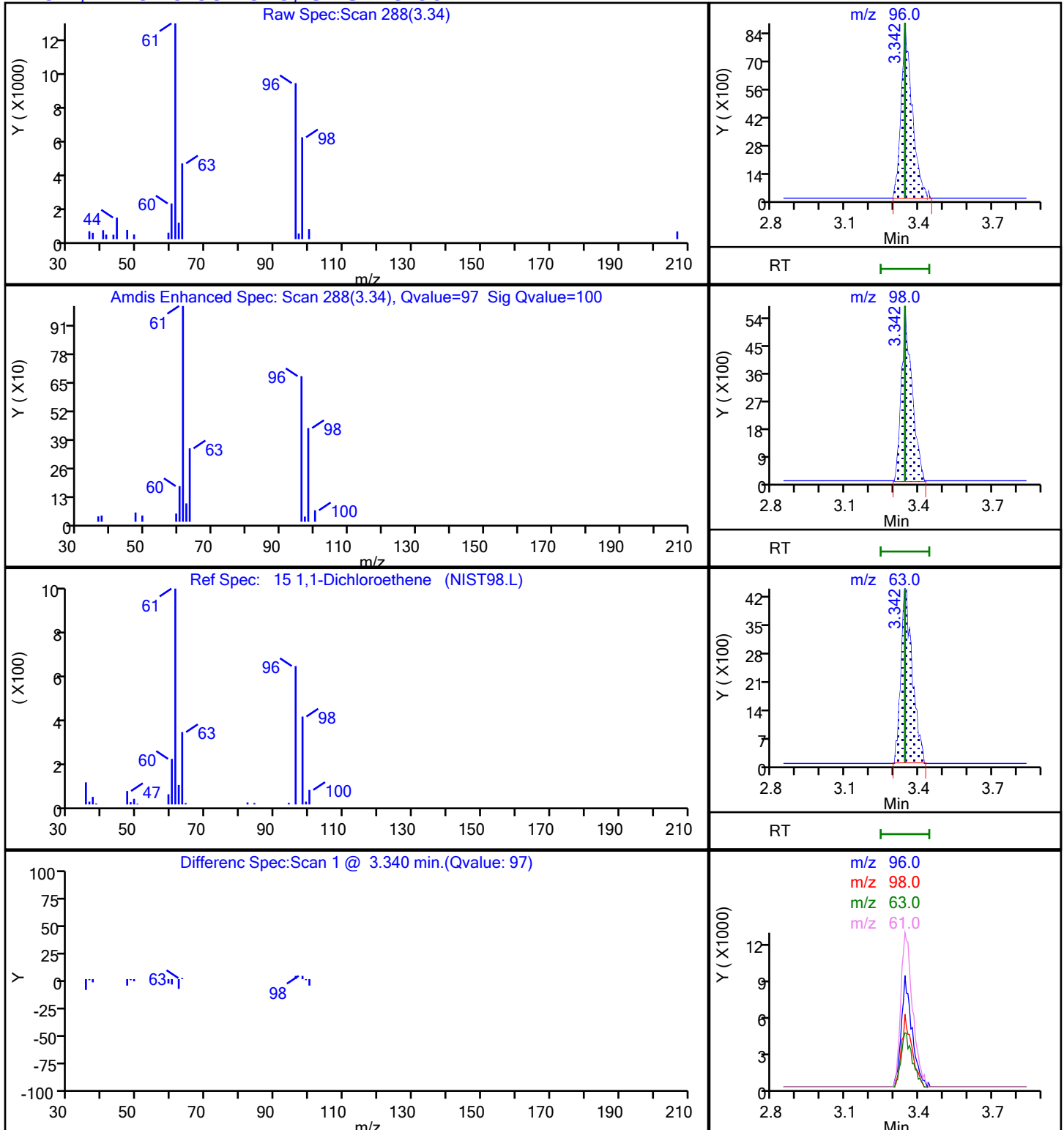
Method: 8260 25ml HP31

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\20230829-92765.b\IG29X27.D

Injection Date: 30-Aug-2023 02:51:30

Instrument ID: 19930

Lims ID: 410-140485-A-8

Lab Sample ID: 410-140485-8

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

Operator ID: gaw91131

ALS Bottle#: 27

Worklist Smp#: 28

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

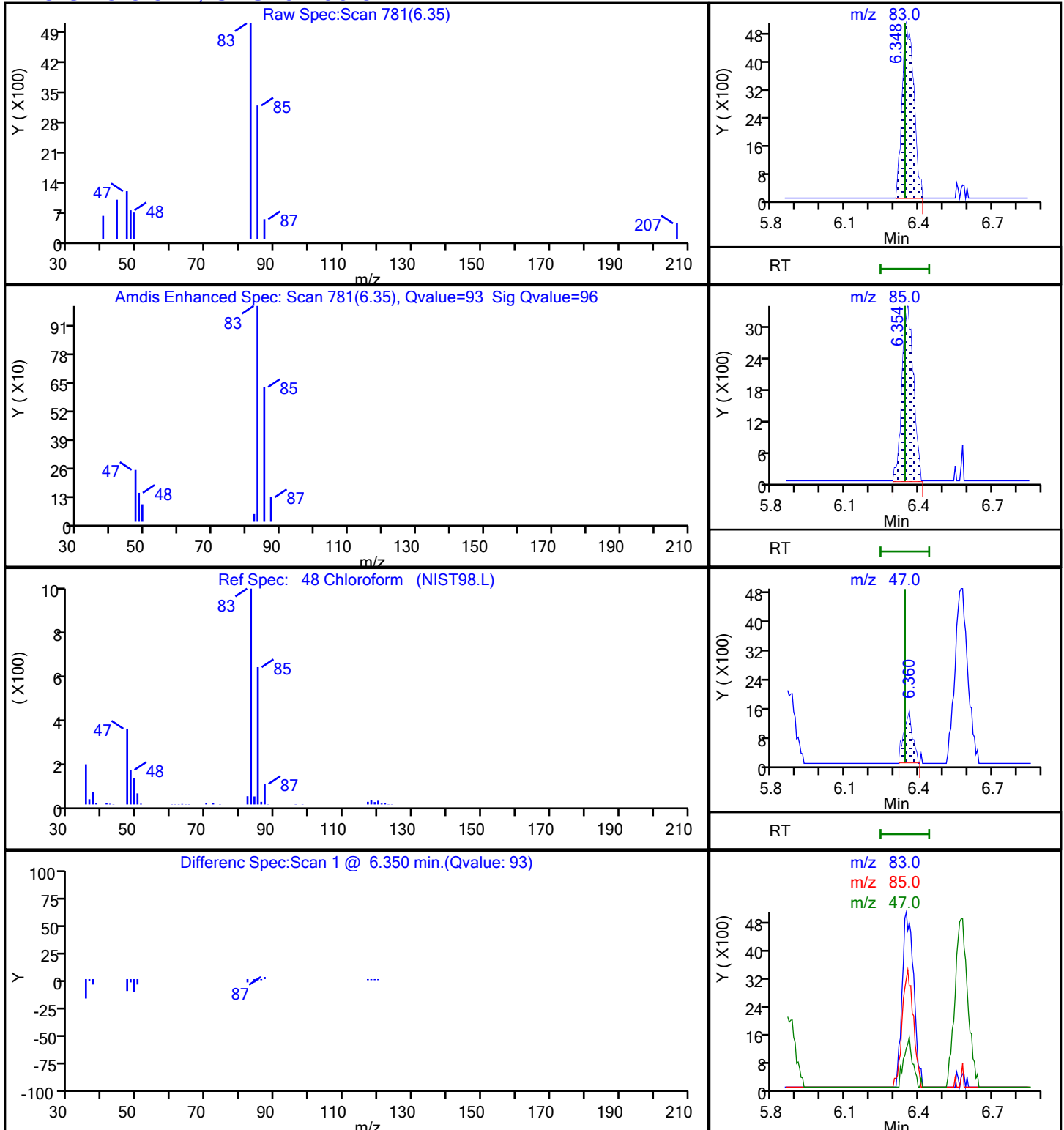
Method: 8260 25ml HP31

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\20230829-92765.b\IG29X27.D

Injection Date: 30-Aug-2023 02:51:30

Instrument ID: 19930

Lims ID: 410-140485-A-8

Lab Sample ID: 410-140485-8

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

Operator ID: gaw91131

ALS Bottle#: 27

Worklist Smp#: 28

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

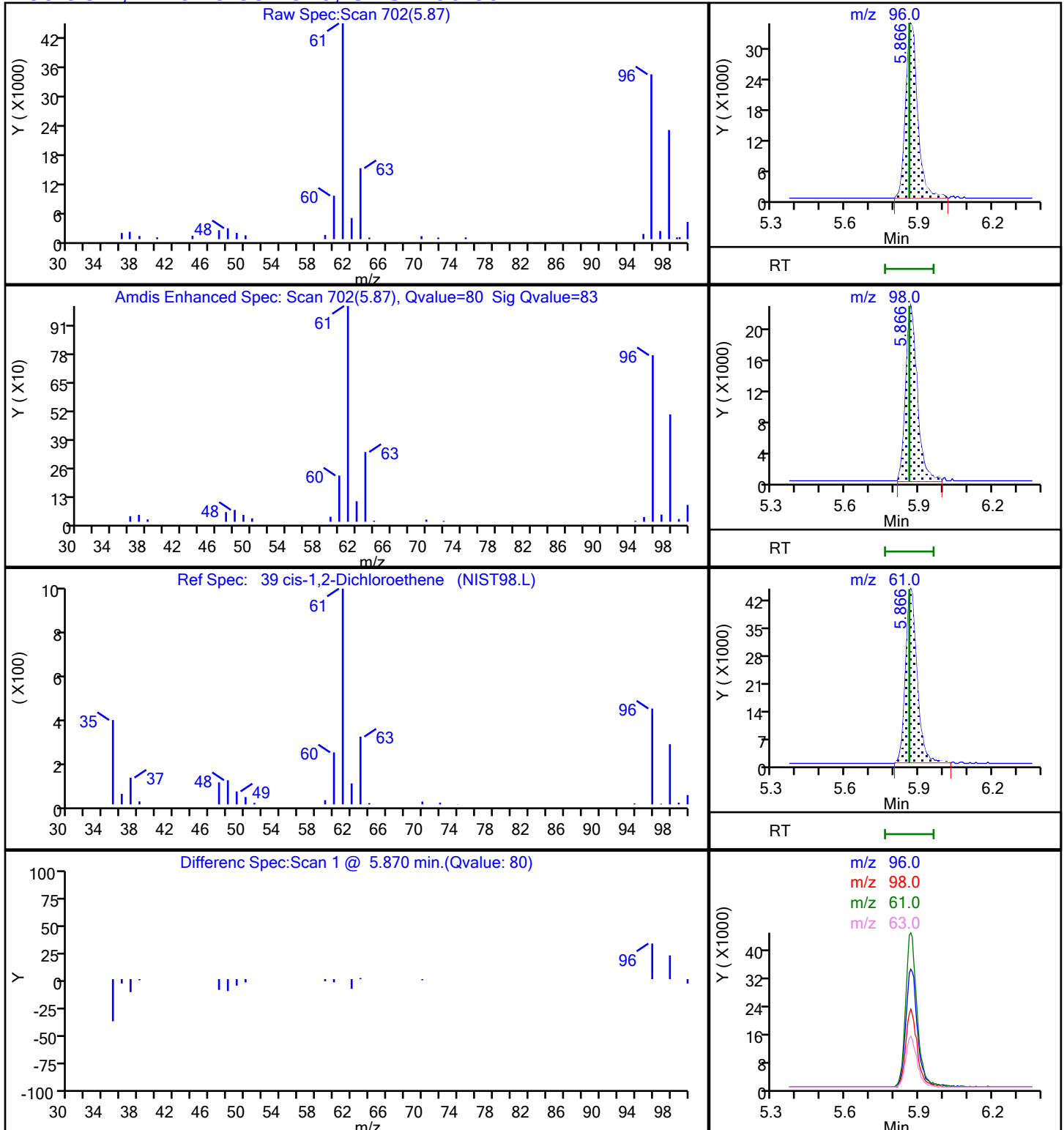
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

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



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X27.D

Injection Date: 30-Aug-2023 02:51:30

Instrument ID: 19930

Lims ID: 410-140485-A-8

Lab Sample ID: 410-140485-8

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

Operator ID: gaw91131

ALS Bottle#: 27

Worklist Smp#: 28

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

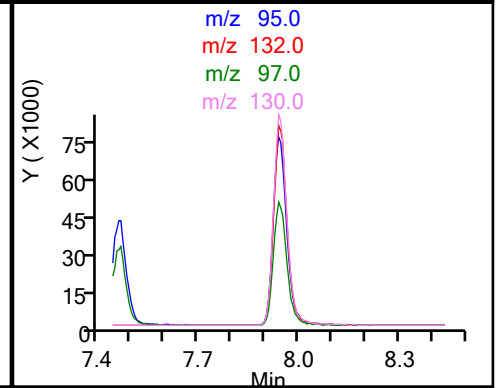
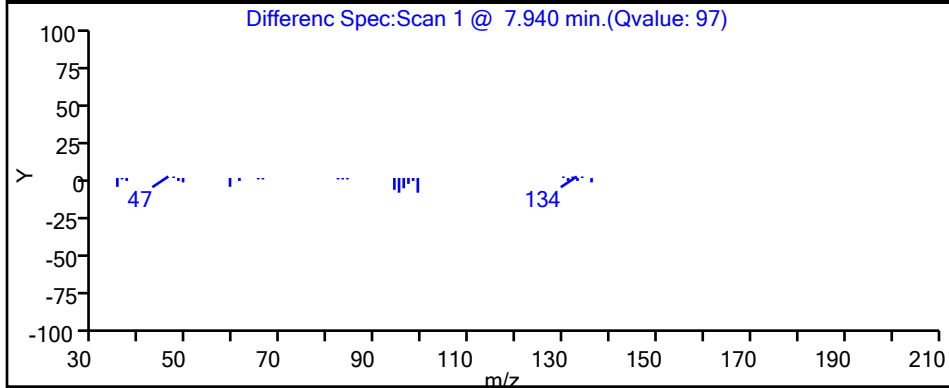
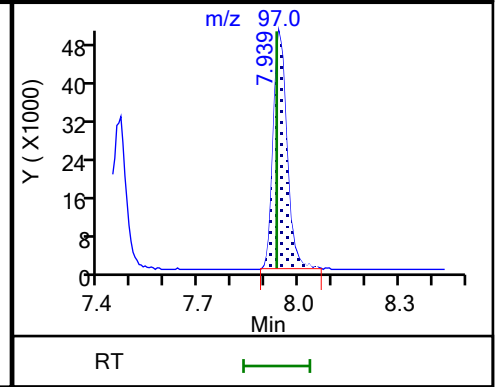
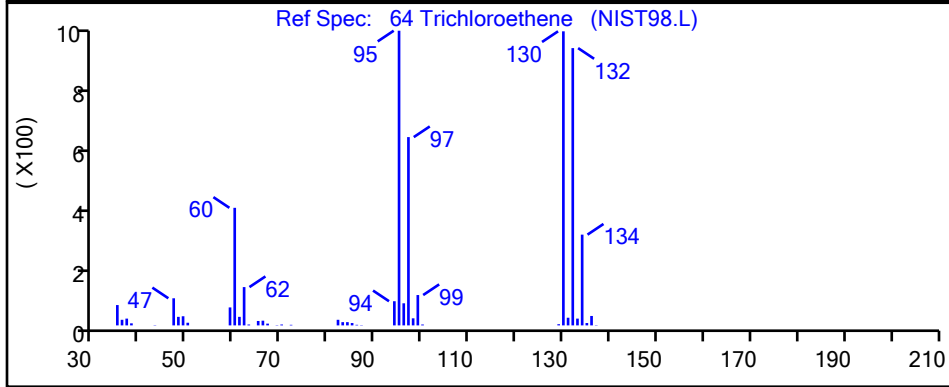
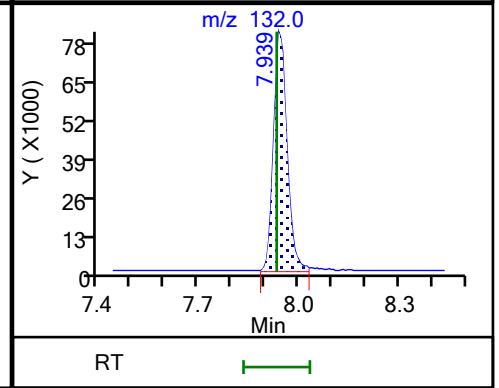
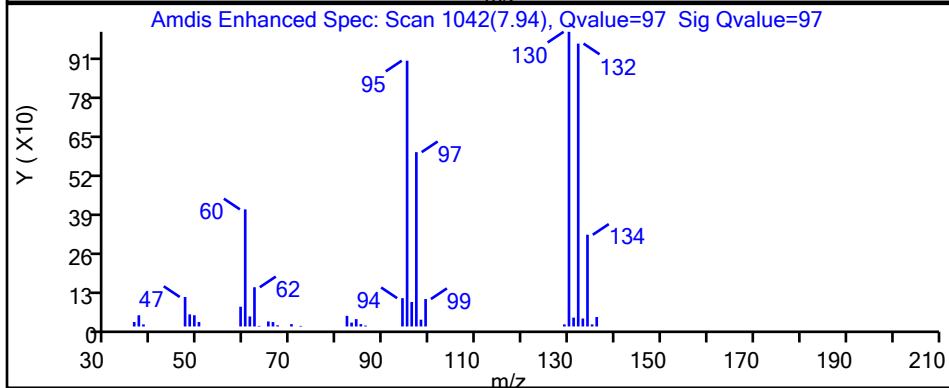
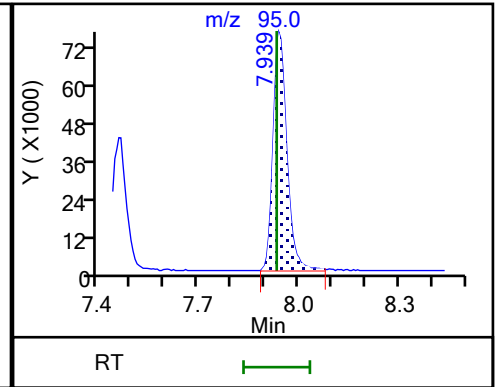
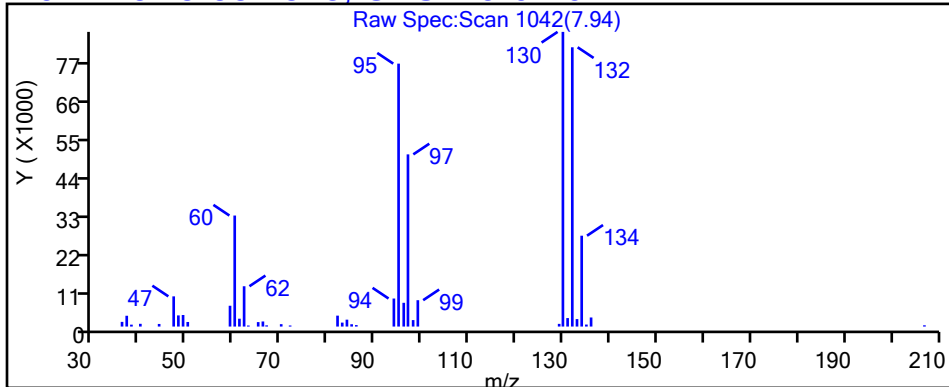
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

64 Trichloroethene, CAS: 79-01-6

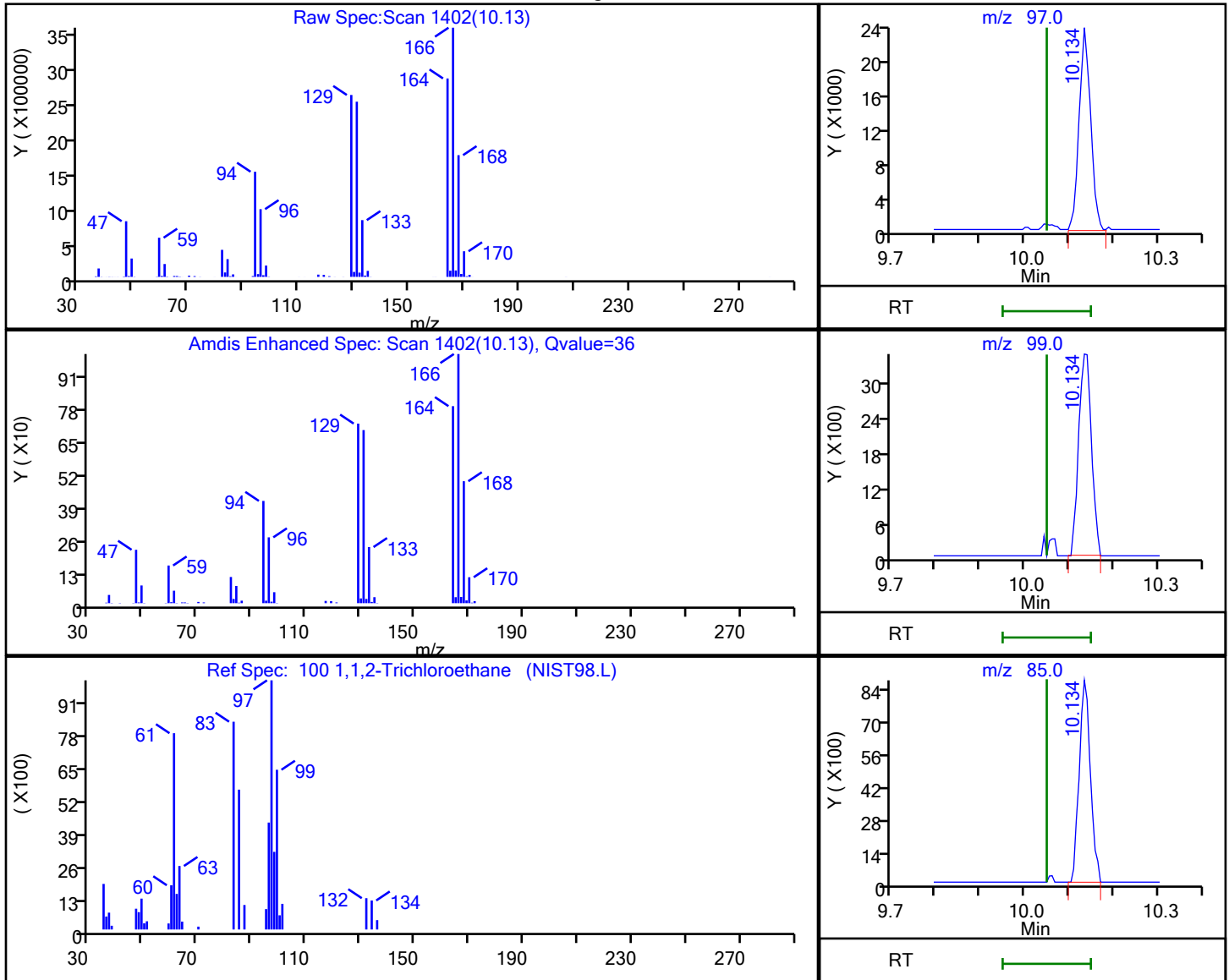


Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X27.D  
 Injection Date: 30-Aug-2023 02:51:30 Instrument ID: 19930  
 Lims ID: 410-140485-A-8 Lab Sample ID: 410-140485-8  
 Client ID: HD-COD-SW-17-0/1-0  
 Operator ID: gaw91131 ALS Bottle#: 27 Worklist Smp#: 28  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Method: 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
10.13	97.00	41400	1.235286
10.13	99.00	6886	
10.13	85.00	15502	
10.13	83.00	113570	

Reviewer: kaewrungrueangp, 30-Aug-2023 14:22:57 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

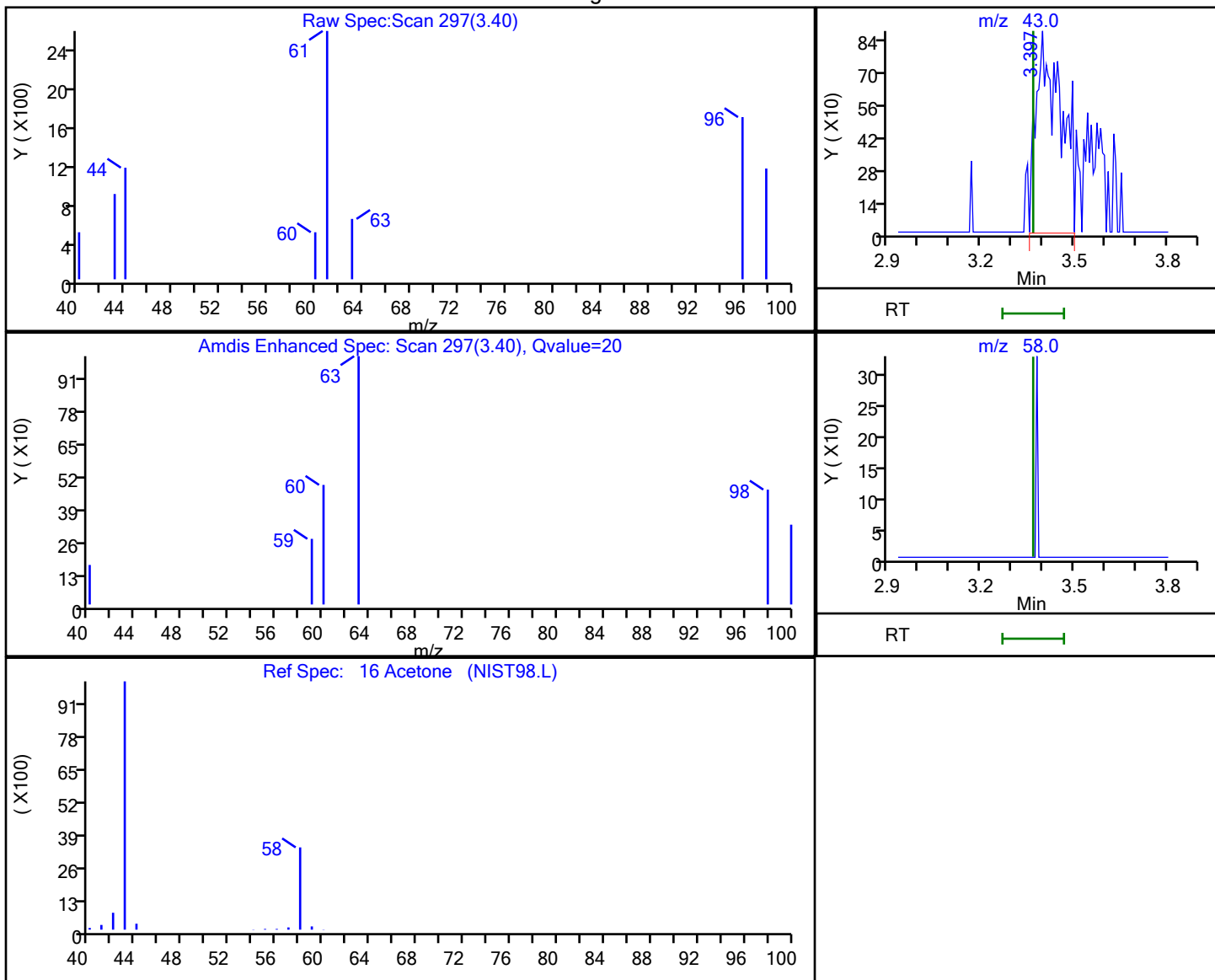
Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X27.D  
 Injection Date: 30-Aug-2023 02:51:30 Instrument ID: 19930  
 Lims ID: 410-140485-A-8 Lab Sample ID: 410-140485-8  
 Client ID: HD-COD-SW-17-0/1-0  
 Operator ID: gaw91131 ALS Bottle#: 27 Worklist Smp#: 28  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Method: 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
3.40	43.00	4836	0.942103
3.37	58.00	0	

Reviewer: kaewrungrueangp, 30-Aug-2023 14:22:41 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

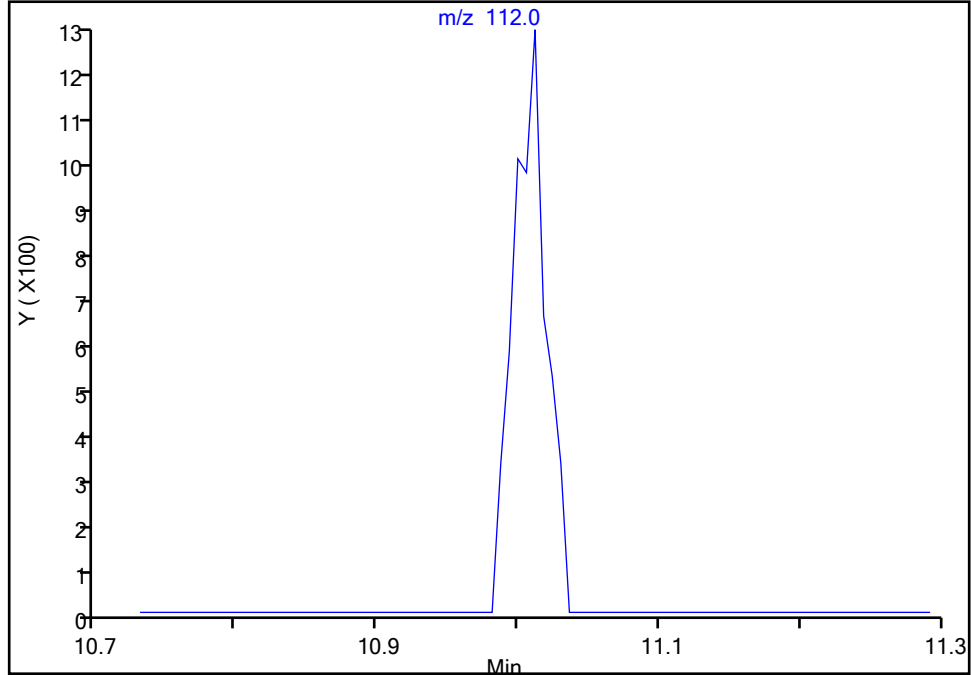
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Injection Date: 30-Aug-2023 02:51:30 Instrument ID: 19930  
Lims ID: 410-140485-A-8 Lab Sample ID: 410-140485-8  
Client ID: HD-COD-SW-17-0/1-0  
Operator ID: gaw91131 ALS Bottle#: 27 Worklist Smp#: 28  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

109 Chlorobenzene, CAS: 108-90-7

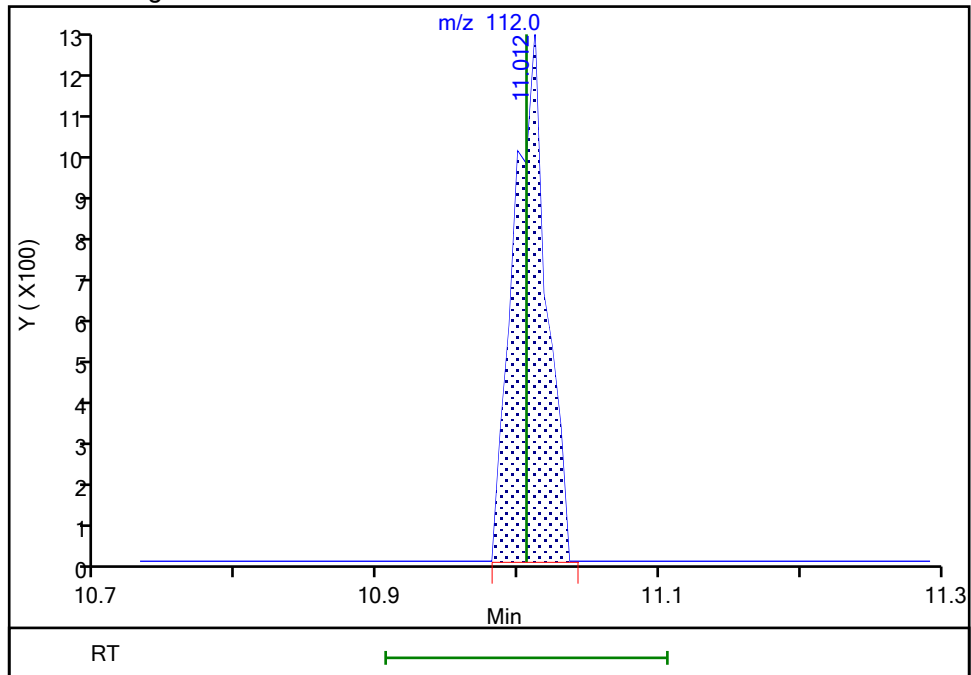
Signal: 1

Not Detected  
Expected RT: 11.01

Processing Integration Results



Manual Integration Results



RT: 11.01  
Area: 2050  
Amount: 0.014754  
Amount Units: ug/l

Reviewer: kaewrungrueangp, 30-Aug-2023 14:23:10 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      Job No.: 410-140485-1  
 Environment Testing, LLC

SDG No.: \_\_\_\_\_

Client Sample ID: HD-COD-SW-17-0/1-0 DL      Lab Sample ID: 410-140485-8 DL

Matrix: Water      Lab File ID: IG29X28.D

Analysis Method: 8260D      Date Collected: 08/24/2023 10:16

Sample wt/vol: 25 (mL)      Date Analyzed: 08/30/2023 03:12

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.: 413930      Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	90		5.0	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		80-120
460-00-4	4-Bromofluorobenzene (Surr)	90		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120



Eurofins Lancaster Laboratories Environment Testing, LLC  
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X28.D  
 Lims ID: 410-140485-B-8 DL  
 Client ID: HD-COD-SW-17-0/1-0  
 Sample Type: Client  
 Inject. Date: 30-Aug-2023 03:12:30 ALS Bottle#: 28 Worklist Smp#: 29  
 Purge Vol: 25.000 mL Dil. Factor: 10.0000  
 Sample Info: 410-0092765-029  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:37:12 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:37:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.044				ND	
5 Vinyl chloride	62		2.148				ND	
7 Bromomethane	94		2.471				ND	
8 Chloroethane	64		2.544				ND	
15 1,1-Dichloroethene	96	3.355	3.342	0.013	89	1932	0.0502	
16 Acetone	43		3.367				ND	U
20 Carbon disulfide	76		3.635				ND	
25 Methylene Chloride	84		3.964				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.983	3.964	0.019	22	111582	50.0	
29 Methyl tert-butyl ether	73		4.348				ND	
30 trans-1,2-Dichloroethene	96		4.361				ND	
32 1,1-Dichloroethane	63	5.019	5.019	0.000	93	11184	0.1523	a
38 2-Butanone (MEK)	43		5.824				ND	
39 cis-1,2-Dichloroethene	96	5.873	5.860	0.013	77	9730	0.2040	
46 Chlorobromomethane	128		6.196				ND	
48 Chloroform	83		6.342				ND	7
\$ 49 Dibromofluoromethane (Surr)	113	6.561	6.561	0.000	94	401753	10.9	
50 1,1,1-Trichloroethane	97	6.574	6.567	0.007	41	49042	0.6922	
54 Carbon tetrachloride	117		6.787				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.013	7.012	0.001	63	79206	10.8	
57 Benzene	78		7.049				ND	
58 1,2-Dichloroethane	62		7.116				ND	
* 61 Fluorobenzene (IS)	96	7.451	7.451	0.000	99	1436303	10.0	
64 Trichloroethene	95	7.933	7.933	0.000	97	18861	0.3997	
66 1,2-Dichloropropane	63		8.262				ND	
71 Dichlorobromomethane	83		8.616				ND	
76 cis-1,3-Dichloropropene	75		9.177				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.353				ND	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.494	0.000	94	1475547	9.78	
79 Toluene	92		9.567				ND	
97 trans-1,3-Dichloropropene	75		9.841				ND	
100 1,1,2-Trichloroethane	97		10.048				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.134	10.134	0.000	98	559810	9.02	
103 2-Hexanone	43		10.262				ND	
105 Chlorodibromomethane	129		10.433				ND	
106 Ethylene Dibromide	107		10.542				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.981	10.981	0.000	85	1173826	10.0	
109 Chlorobenzene	112		11.006				ND	
111 1,1,1,2-Tetrachloroethane	131		11.091				ND	
112 Ethylbenzene	91		11.091				ND	
113 m-Xylene & p-Xylene	106		11.213				ND	
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.542				ND	
115 Styrene	104		11.560				ND	
116 Bromoform	173		11.719				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.993	11.987	0.006	97	513704	9.03	
121 1,1,2,2-Tetrachloroethane	83		12.091				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.877	12.871	0.006	94	648799	10.0	

**QC Flag Legend**

## Processing Flags

7 - Failed Limit of Detection

## Review Flags

U - Marked Undetected

a - User Assigned ID

**Reagents:**

MSV\_LLcentISS\_00009

Amount Added: 5.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X28.D

Injection Date: 30-Aug-2023 03:12:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-140485-B-8 DL

Lab Sample ID: 410-140485-8

Worklist Smp#: 29

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

Purge Vol: 25.000 mL

Dil. Factor: 10.0000

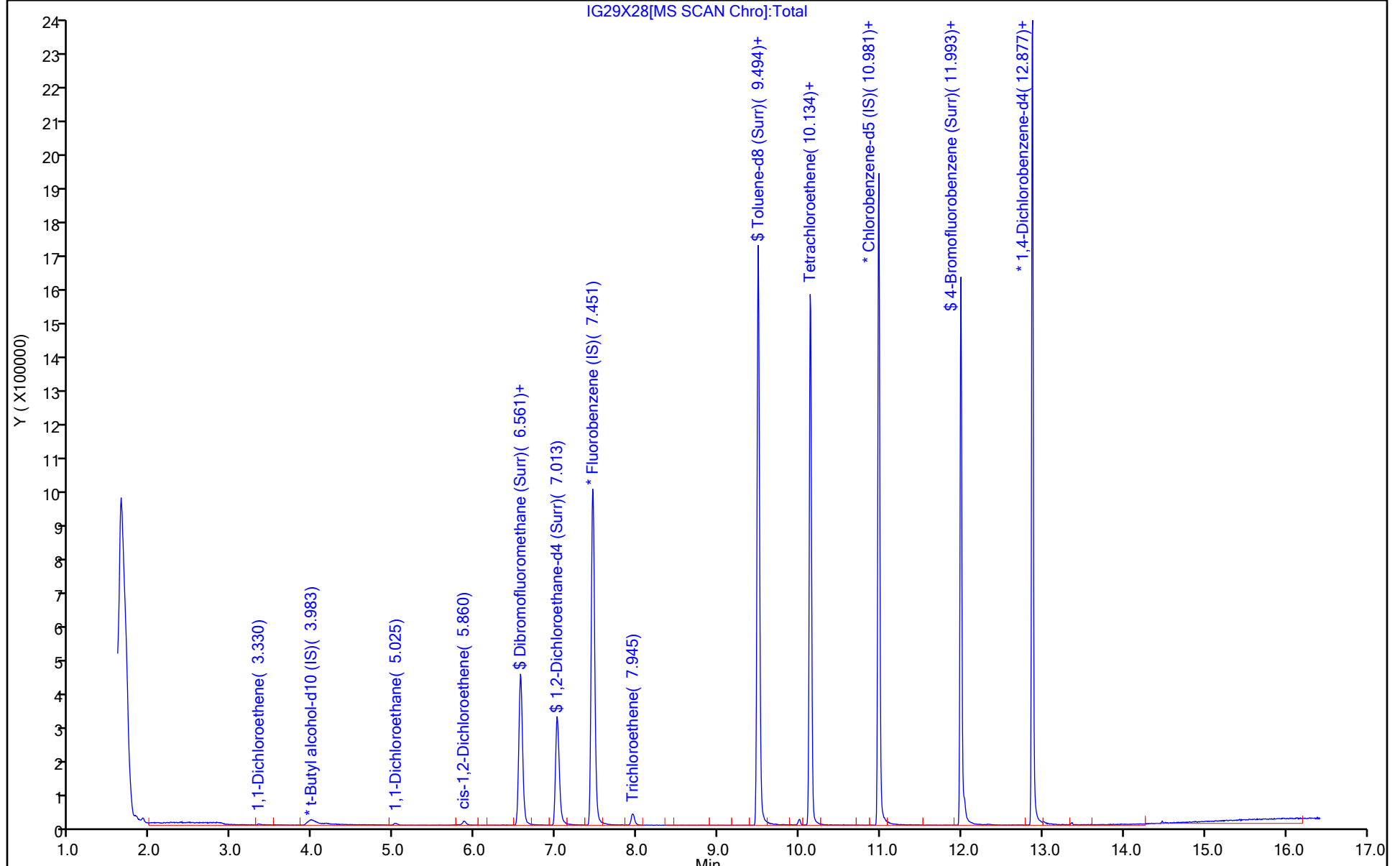
ALS Bottle#: 28

Method: 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\20230829-92765.b\IG29X28.D  
 Lims ID: 410-140485-B-8 DL  
 Client ID: HD-COD-SW-17-0/1-0  
 Sample Type: Client  
 Inject. Date: 30-Aug-2023 03:12:30 ALS Bottle#: 28 Worklist Smp#: 29  
 Purge Vol: 25.000 mL Dil. Factor: 10.0000  
 Sample Info: 410-0092765-029  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:37:12 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:37:12

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	10.9	108.90
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.8	108.28
\$ 78 Toluene-d8 (Surr)	10.0	9.78	97.77
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.03	90.34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X28.D

Injection Date: 30-Aug-2023 03:12:30

Instrument ID: 19930

Lims ID: 410-140485-B-8 DL

Lab Sample ID: 410-140485-8

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

Operator ID: gaw91131

ALS Bottle#: 28

Worklist Smp#: 29

Purge Vol: 25.000 mL

Dil. Factor: 10.0000

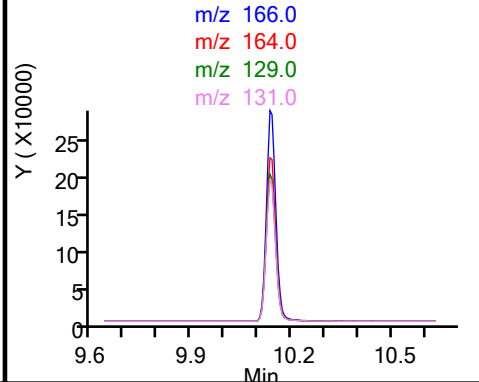
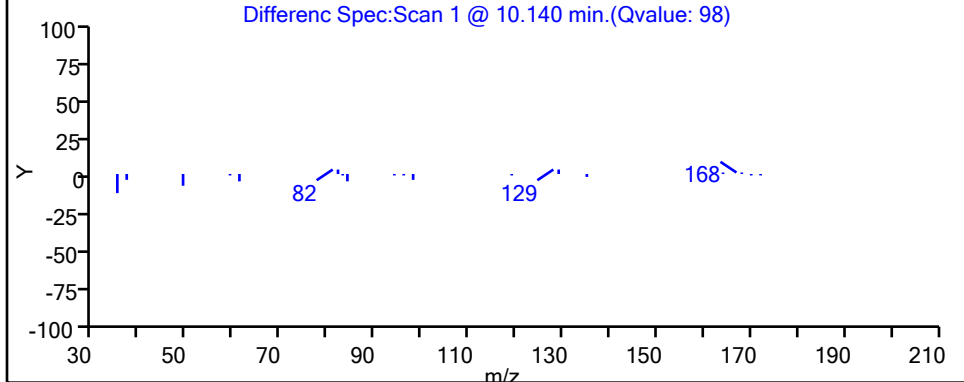
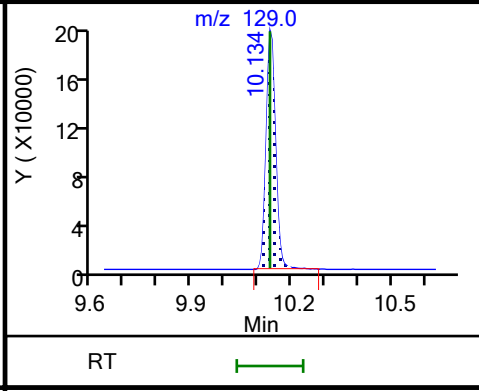
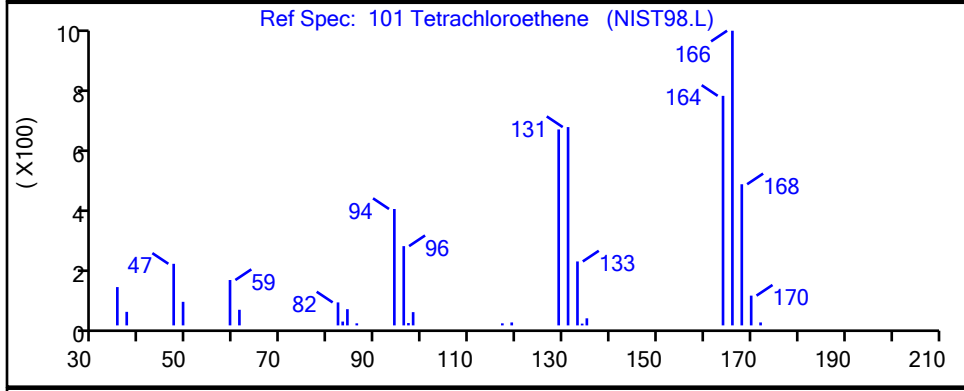
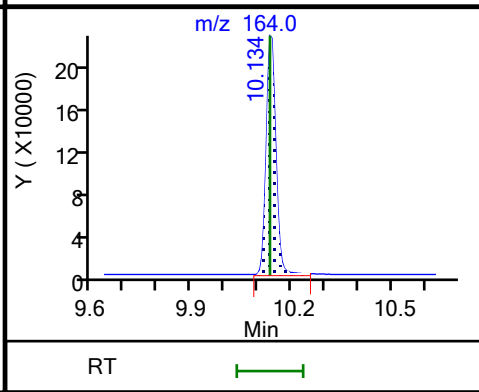
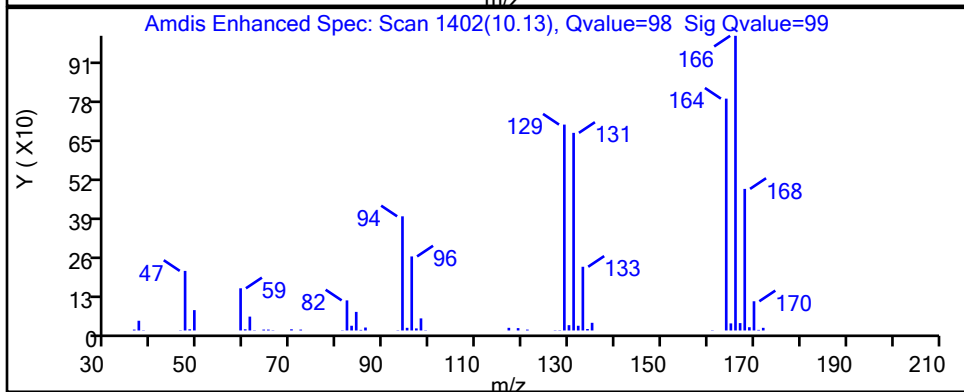
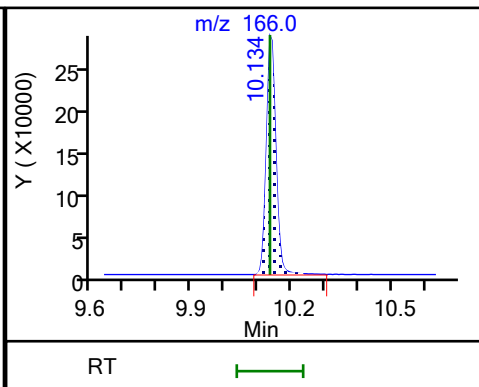
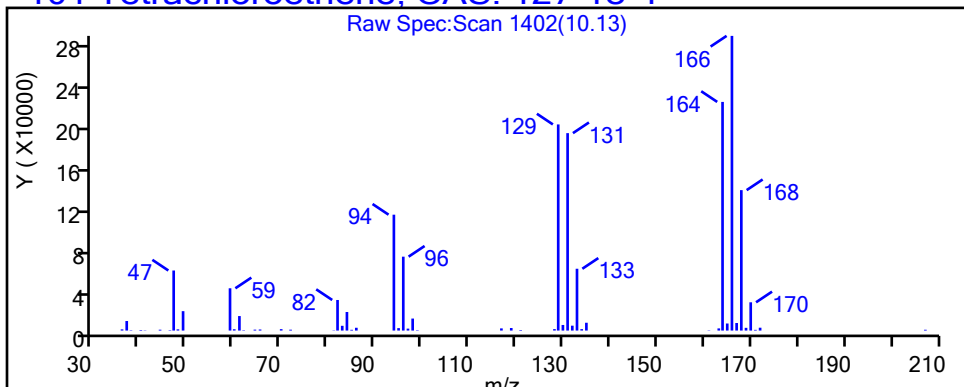
Method: 8260 25ml HP31

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.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-9

Matrix: Water

Lab File ID: IG29X18.D

Analysis Method: 8260D

Date Collected: 08/24/2023 11:23

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 23:42

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 413930

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	0.15	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	^c cn	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	0.58		0.50	0.090
74-87-3	Chloromethane	0.24	J	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	3.8		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.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-9

Matrix: Water

Lab File ID: IG29X18.D

Analysis Method: 8260D

Date Collected: 08/24/2023 11:23

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 23:42

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 413930

Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X18.D  
 Lims ID: 410-140485-A-9  
 Client ID: HD-COD-SW-26-0/1-0  
 Sample Type: Client  
 Inject. Date: 29-Aug-2023 23:42:30 ALS Bottle#: 18 Worklist Smp#: 19  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-019  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:17:53 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:17:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.038	2.044	-0.006	99	14300	0.2357	
5 Vinyl chloride	62		2.148				ND	
7 Bromomethane	94		2.471				ND	7
8 Chloroethane	64		2.544				ND	
15 1,1-Dichloroethene	96	3.336	3.342	-0.006	90	5895	0.1474	
16 Acetone	43		3.367				ND	U
20 Carbon disulfide	76		3.635				ND	7
25 Methylene Chloride	84		3.964				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.977	3.964	0.013	29	107537	50.0	
29 Methyl tert-butyl ether	73		4.348				ND	
30 trans-1,2-Dichloroethene	96		4.361				ND	
32 1,1-Dichloroethane	63		5.019				ND	
38 2-Butanone (MEK)	43		5.824				ND	
39 cis-1,2-Dichloroethene	96		5.860				ND	
46 Chlorobromomethane	128		6.196				ND	
48 Chloroform	83	6.348	6.342	0.006	94	46069	0.5847	
\$ 49 Dibromofluoromethane (Surr)	113	6.561	6.561	0.000	94	418778	10.9	
50 1,1,1-Trichloroethane	97		6.567				ND	
54 Carbon tetrachloride	117		6.787				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.025	7.012	0.013	63	83566	11.0	
57 Benzene	78		7.049				ND	
58 1,2-Dichloroethane	62		7.116				ND	
* 61 Fluorobenzene (IS)	96	7.458	7.451	0.007	99	1491680	10.0	
64 Trichloroethene	95	7.951	7.933	0.018	96	7633	0.1558	
66 1,2-Dichloropropane	63		8.262				ND	
71 Dichlorobromomethane	83		8.616				ND	7
76 cis-1,3-Dichloropropene	75		9.177				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.353				ND	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.494	0.000	94	1522784	9.73	
79 Toluene	92		9.567				ND	7
97 trans-1,3-Dichloropropene	75		9.841				ND	
100 1,1,2-Trichloroethane	97		10.048				ND	



Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.140	10.134	0.006	98	241627	3.75	
103 2-Hexanone	43		10.262				ND	
105 Chlorodibromomethane	129		10.433				ND	
106 Ethylene Dibromide	107		10.542				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.981	10.981	0.000	85	1217529	10.0	
109 Chlorobenzene	112		11.006				ND	
111 1,1,1,2-Tetrachloroethane	131		11.091				ND	
112 Ethylbenzene	91		11.091				ND	
113 m-Xylene & p-Xylene	106		11.213				ND	
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.542				ND	
115 Styrene	104		11.560				ND	
116 Bromoform	173		11.719				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.993	11.987	0.006	95	540736	9.17	
121 1,1,2,2-Tetrachloroethane	83		12.091				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.877	12.871	0.006	94	669850	10.0	

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

**Reagents:**

MSV\_LLcentISS\_00009

Amount Added: 5.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X18.D

Injection Date: 29-Aug-2023 23:42:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-140485-A-9

Lab Sample ID: 410-140485-9

Worklist Smp#: 19

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

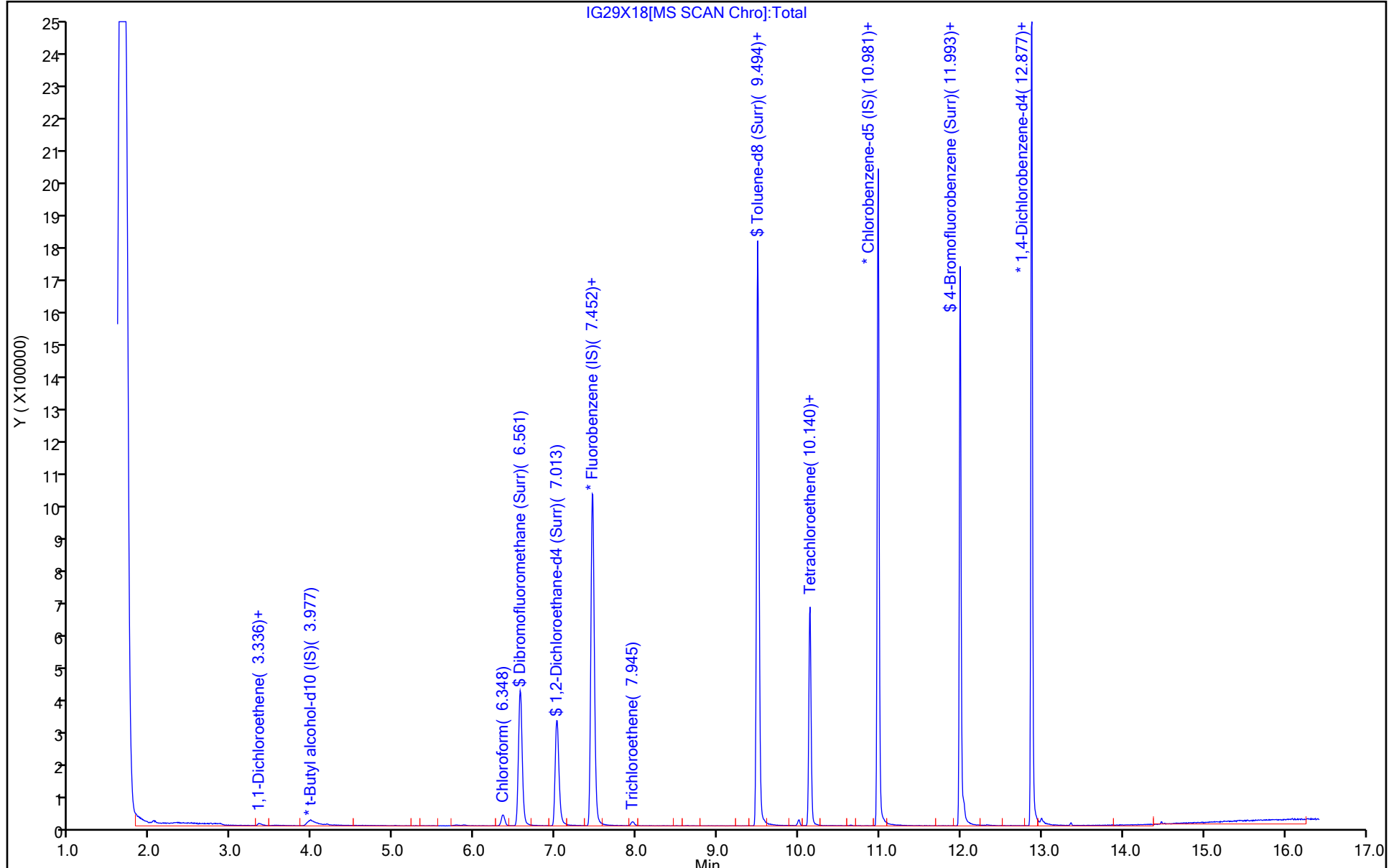
ALS Bottle#: 18

Method: 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\20230829-92765.b\IG29X18.D  
 Lims ID: 410-140485-A-9  
 Client ID: HD-COD-SW-26-0/1-0  
 Sample Type: Client  
 Inject. Date: 29-Aug-2023 23:42:30 ALS Bottle#: 18 Worklist Smp#: 19  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-019  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:17:53 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:17:53

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	10.9	109.30
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	11.0	110.00
\$ 78 Toluene-d8 (Surr)	10.0	9.73	97.28
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.17	91.68

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X18.D

Injection Date: 29-Aug-2023 23:42:30

Instrument ID: 19930

Lims ID: 410-140485-A-9

Lab Sample ID: 410-140485-9

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

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

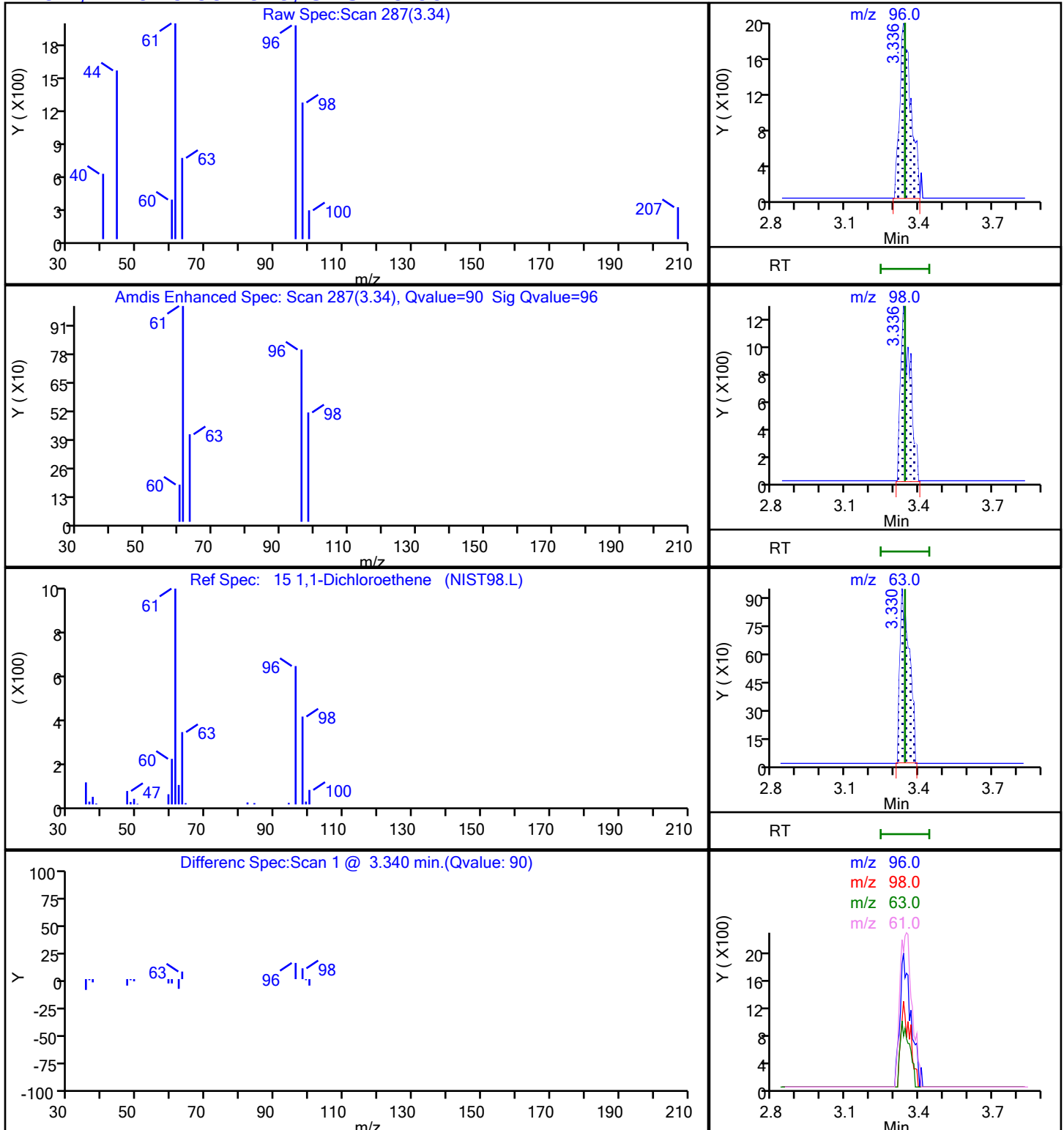
Method: 8260 25ml HP31

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\20230829-92765.b\IG29X18.D

Injection Date: 29-Aug-2023 23:42:30

Instrument ID: 19930

Lims ID: 410-140485-A-9

Lab Sample ID: 410-140485-9

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

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

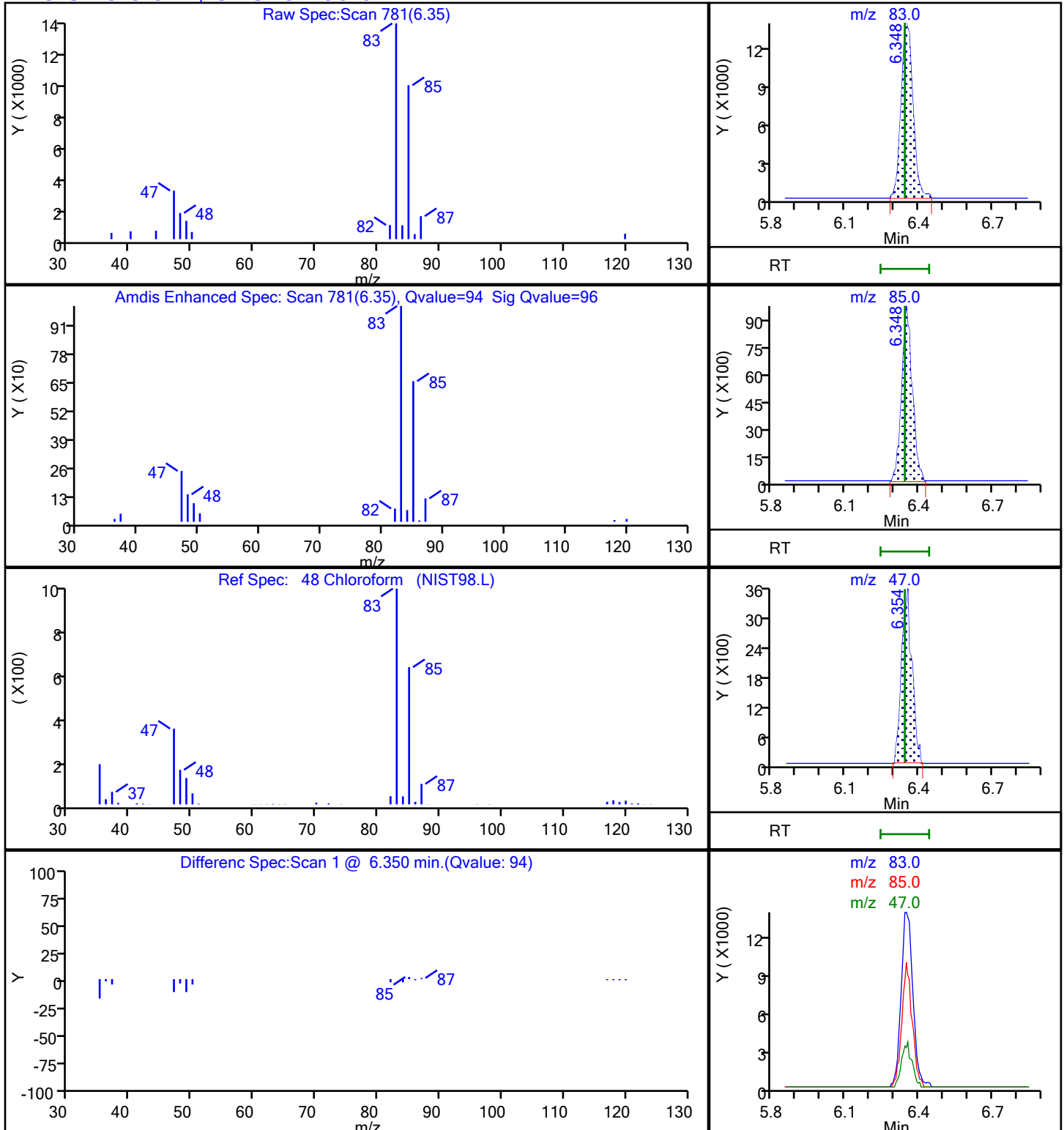
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

### 48 Chloroform, CAS: 67-66-3



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X18.D

Injection Date: 29-Aug-2023 23:42:30

Instrument ID: 19930

Lims ID: 410-140485-A-9

Lab Sample ID: 410-140485-9

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

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

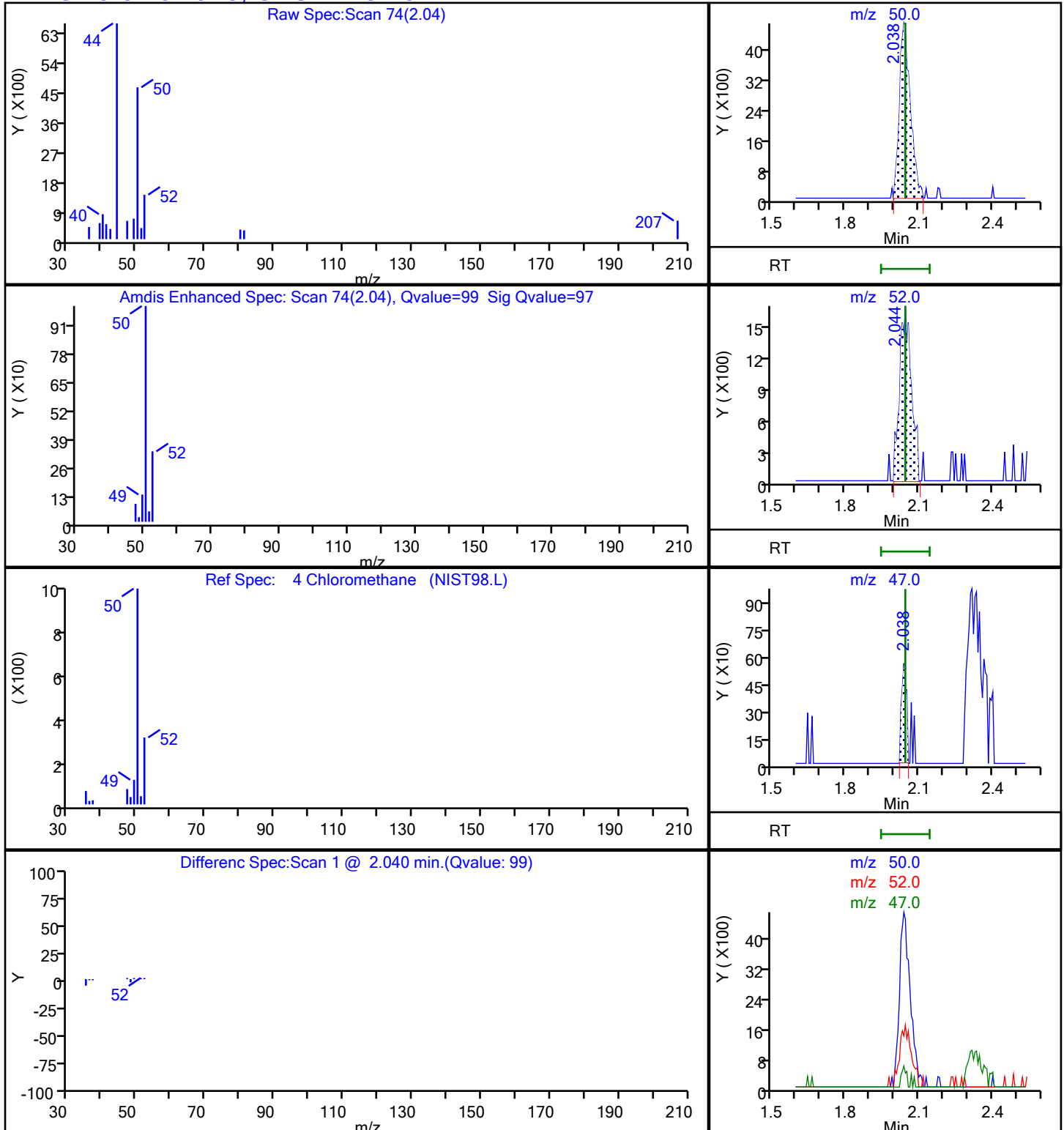
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

### 4 Chloromethane, CAS: 74-87-3



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X18.D

Injection Date: 29-Aug-2023 23:42:30

Instrument ID: 19930

Lims ID: 410-140485-A-9

Lab Sample ID: 410-140485-9

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

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

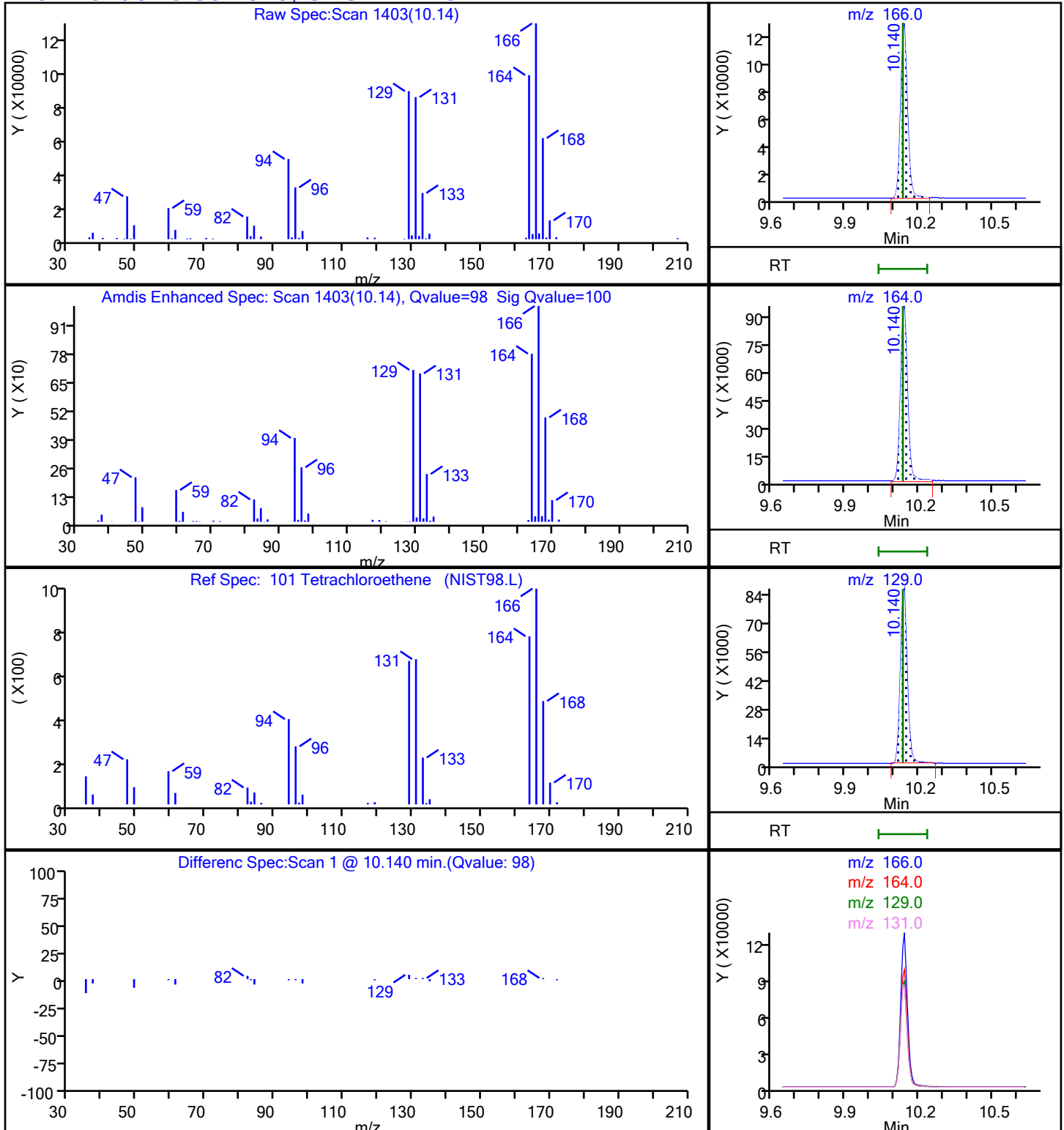
Method: 8260 25ml HP31

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\20230829-92765.b\IG29X18.D

Injection Date: 29-Aug-2023 23:42:30

Instrument ID: 19930

Lims ID: 410-140485-A-9

Lab Sample ID: 410-140485-9

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

Operator ID: gaw91131

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

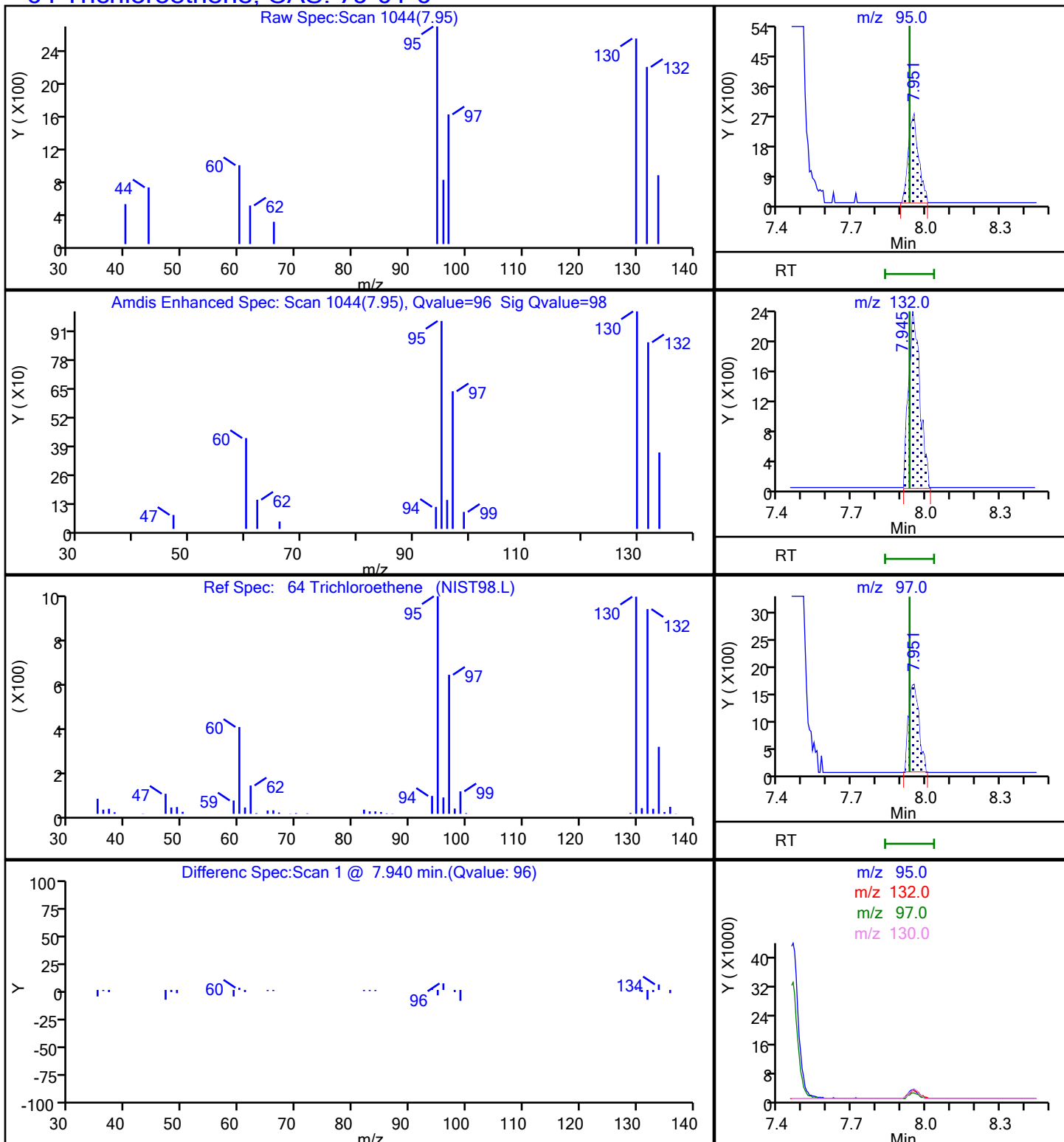
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

### 64 Trichloroethene, CAS: 79-01-6



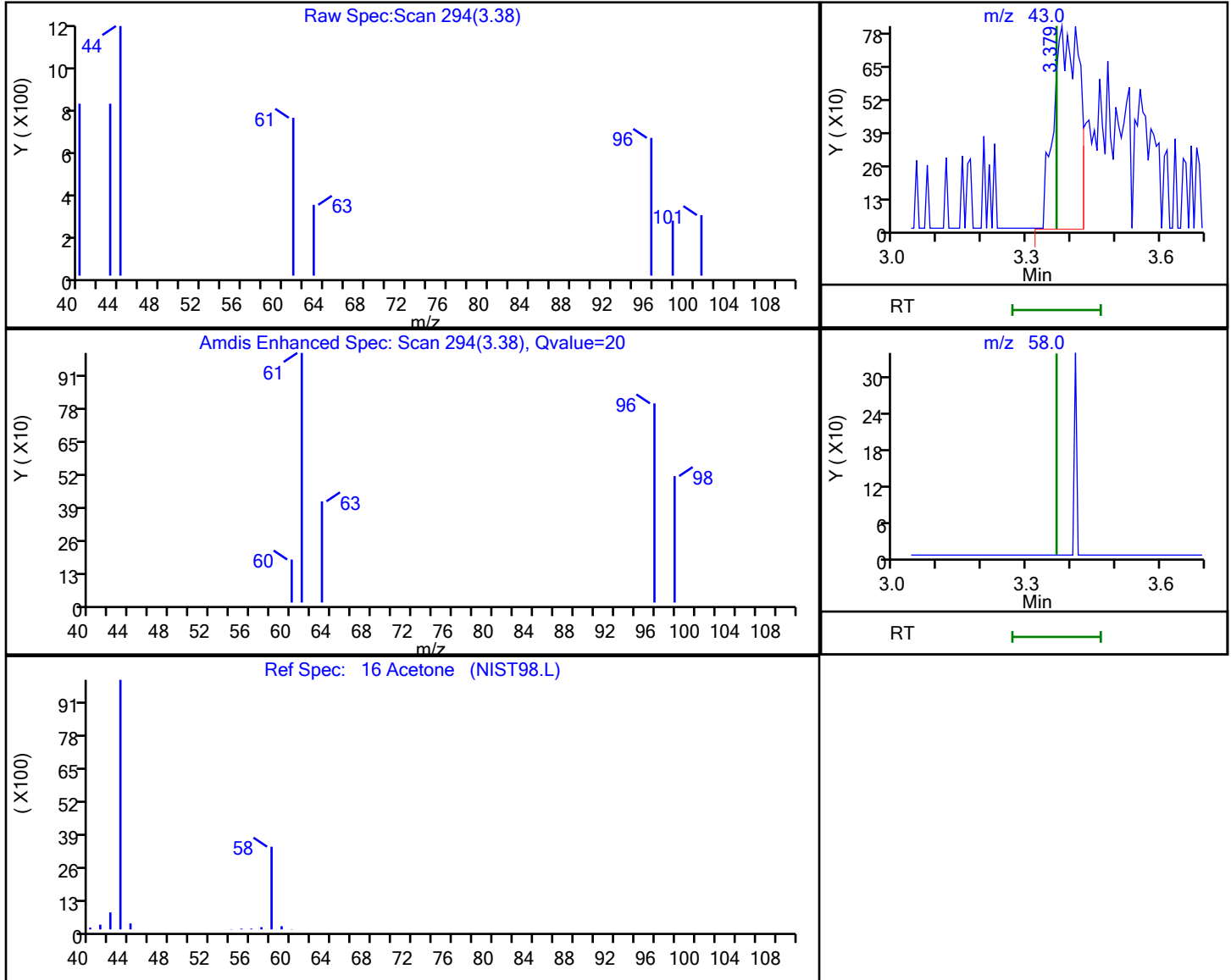


Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfms\Lancaster\ChromData\19930\20230829-92765.b\IG29X18.D  
 Injection Date: 29-Aug-2023 23:42:30 Instrument ID: 19930  
 Lims ID: 410-140485-A-9 Lab Sample ID: 410-140485-9  
 Client ID: HD-COD-SW-26-0/1-0  
 Operator ID: gaw91131 ALS Bottle#: 18 Worklist Smp#: 19  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Method: 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
3.38	43.00	3176	0.617481
3.37	58.00	0	

Reviewer: kaewrungrueangp, 30-Aug-2023 14:17:34 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.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-10

Matrix: Water

Lab File ID: IG29X19.D

Analysis Method: 8260D

Date Collected: 08/24/2023 11:53

Sample wt/vol: 25 (mL)

Date Analyzed: 08/30/2023 00:03

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 413930

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	^c cn	5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	3.0	J cn	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.12	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.26	J	0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories  
Environment Testing, LLC

Job No.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-10

Matrix: Water

Lab File ID: IG29X19.D

Analysis Method: 8260D

Date Collected: 08/24/2023 11:53

Sample wt/vol: 25 (mL)

Date Analyzed: 08/30/2023 00:03

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 413930

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.15	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X19.D  
 Lims ID: 410-140485-A-10  
 Client ID: HD-COD-SW-27-0/1-0  
 Sample Type: Client  
 Inject. Date: 30-Aug-2023 00:03:30 ALS Bottle#: 19 Worklist Smp#: 20  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-020  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:18:22 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:18:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.044	2.044	0.000	95	3769	0.0675	
5 Vinyl chloride	62		2.148				ND	
7 Bromomethane	94		2.471				ND	7
8 Chloroethane	64		2.544				ND	
15 1,1-Dichloroethene	96		3.342				ND	
16 Acetone	43	3.404	3.367	0.037	95	15146	3.05	
20 Carbon disulfide	76	3.666	3.635	0.031	29	3309	0.0332	
25 Methylene Chloride	84		3.964				ND	7
* 26 t-Butyl alcohol-d10 (IS)	65	3.977	3.964	0.013	22	103925	50.0	
29 Methyl tert-butyl ether	73		4.348				ND	
30 trans-1,2-Dichloroethene	96		4.361				ND	
32 1,1-Dichloroethane	63		5.019				ND	
38 2-Butanone (MEK)	43		5.824				ND	
39 cis-1,2-Dichloroethene	96	5.866	5.860	0.006	76	5250	0.1152	a
46 Chlorobromomethane	128		6.196				ND	
48 Chloroform	83	6.354	6.342	0.012	93	5056	0.0698	
\$ 49 Dibromofluoromethane (Surr)	113	6.568	6.561	0.007	93	385680	10.9	
50 1,1,1-Trichloroethane	97		6.567				ND	
54 Carbon tetrachloride	117		6.787				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.012	0.007	65	77450	11.1	
57 Benzene	78		7.049				ND	
58 1,2-Dichloroethane	62		7.116				ND	
* 61 Fluorobenzene (IS)	96	7.458	7.451	0.007	99	1371830	10.0	
64 Trichloroethene	95	7.951	7.933	0.018	94	6622	0.1469	
66 1,2-Dichloropropane	63		8.262				ND	
71 Dichlorobromomethane	83		8.616				ND	
76 cis-1,3-Dichloropropene	75		9.177				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.353				ND	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.494	0.000	94	1411106	9.89	
79 Toluene	92		9.567				ND	7
97 trans-1,3-Dichloropropene	75		9.841				ND	
100 1,1,2-Trichloroethane	97		10.048				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.146	10.134	0.012	97	15367	0.2617	
103 2-Hexanone	43		10.262				ND	
105 Chlorodibromomethane	129		10.433				ND	
106 Ethylene Dibromide	107		10.542				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.981	10.981	0.000	86	1109986	10.0	
109 Chlorobenzene	112		11.006				ND	
111 1,1,1,2-Tetrachloroethane	131		11.091				ND	
112 Ethylbenzene	91		11.091				ND	
113 m-Xylene & p-Xylene	106		11.213				ND	7
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.542				ND	
115 Styrene	104		11.560				ND	
116 Bromoform	173		11.719				ND	7
\$ 120 4-Bromofluorobenzene (Surr)	95	11.993	11.987	0.006	94	488931	9.09	
121 1,1,2,2-Tetrachloroethane	83		12.091				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.877	12.871	0.006	94	613832	10.0	

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

**Reagents:**

MSV\_LLcentISS\_00009

Amount Added: 5.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X19.D

Injection Date: 30-Aug-2023 00:03:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-140485-A-10

Lab Sample ID: 410-140485-10

Worklist Smp#: 20

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

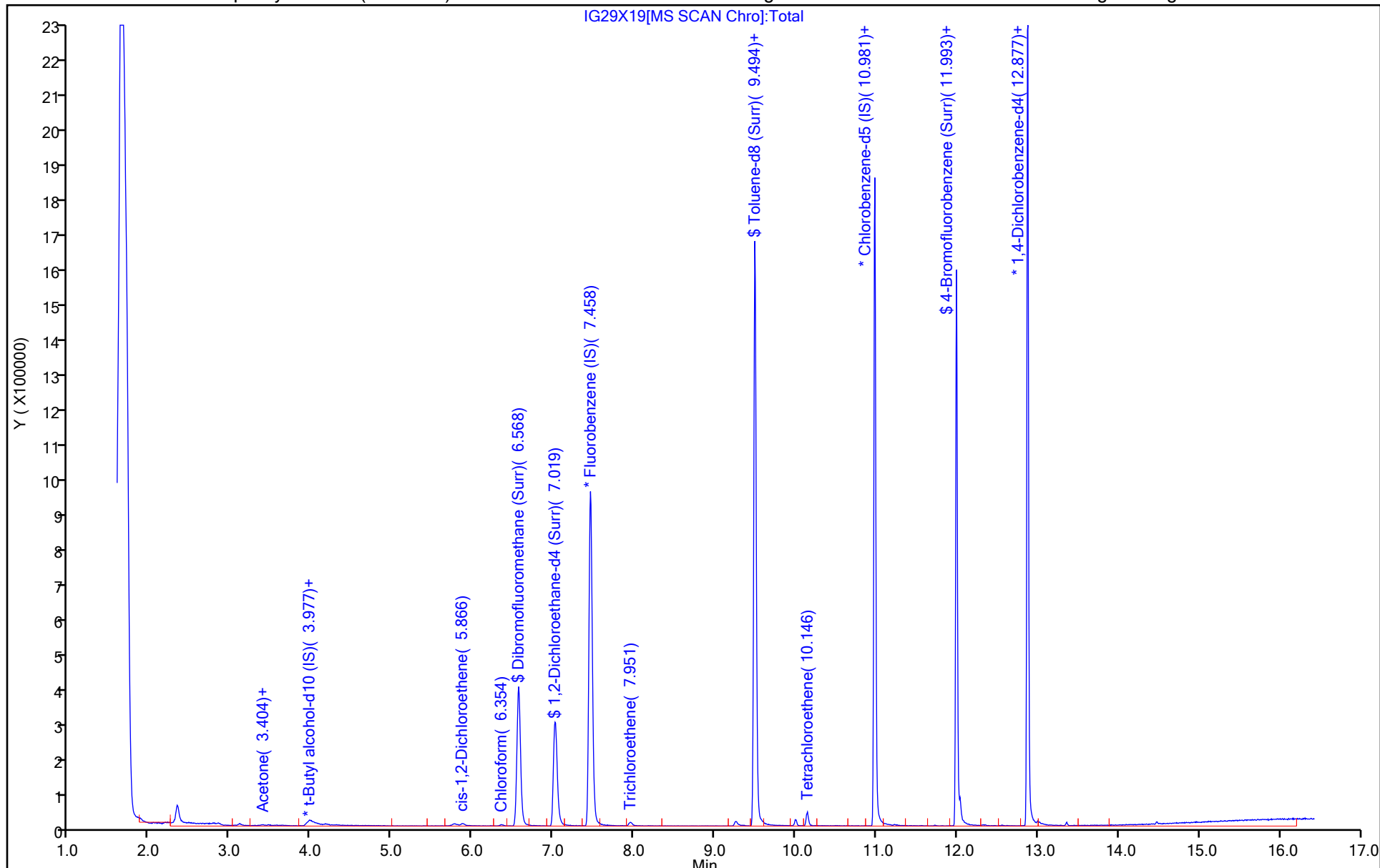
ALS Bottle#: 19

Method: 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\20230829-92765.b\IG29X19.D  
 Lims ID: 410-140485-A-10  
 Client ID: HD-COD-SW-27-0/1-0  
 Sample Type: Client  
 Inject. Date: 30-Aug-2023 00:03:30 ALS Bottle#: 19 Worklist Smp#: 20  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-020  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:18:22 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:18:22

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	10.9	109.46
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	11.1	110.86
\$ 78 Toluene-d8 (Surr)	10.0	9.89	98.88
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.09	90.92

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X19.D

Injection Date: 30-Aug-2023 00:03:30

Instrument ID: 19930

Lims ID: 410-140485-A-10

Lab Sample ID: 410-140485-10

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

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

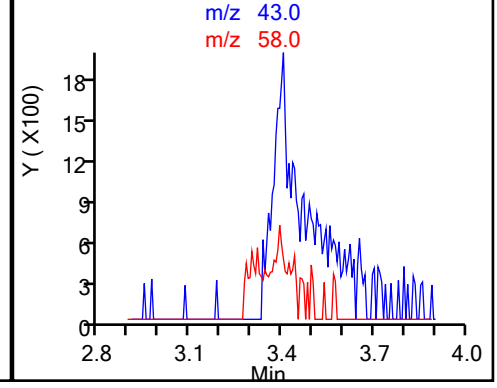
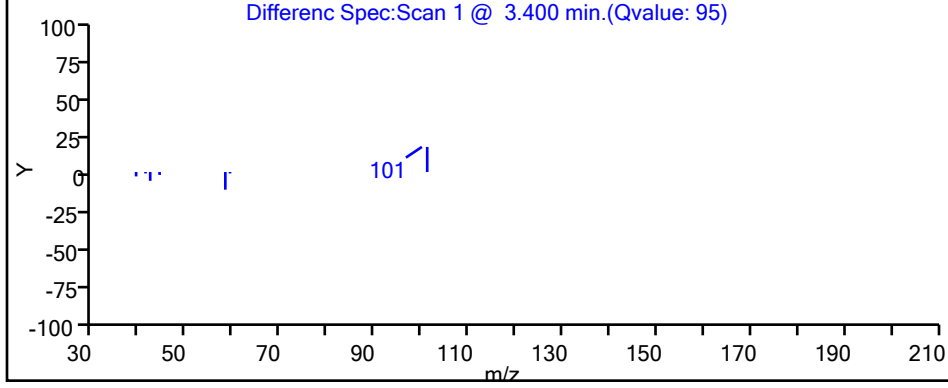
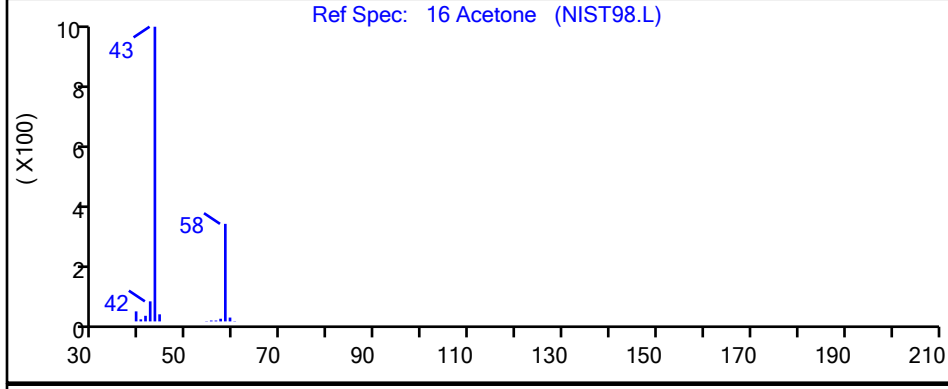
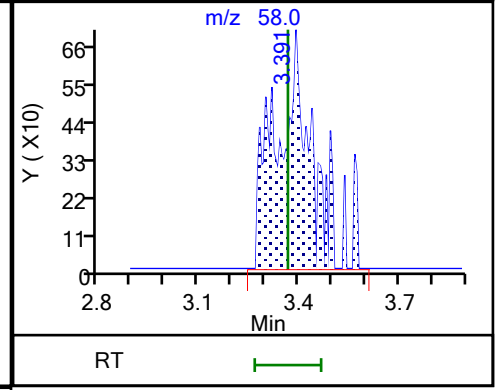
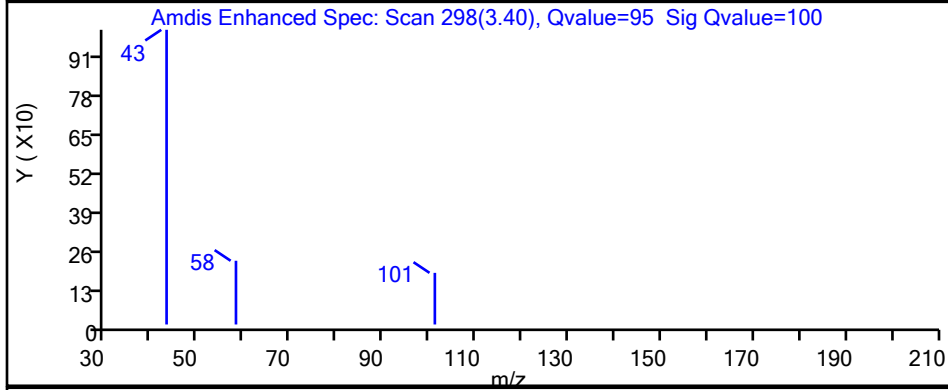
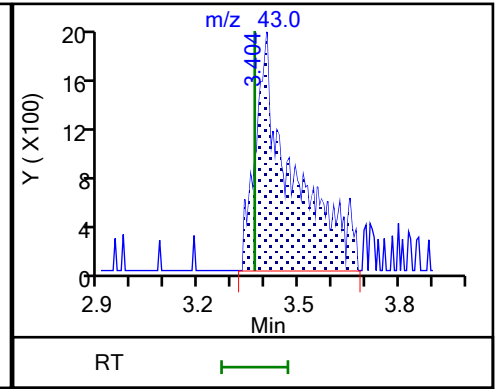
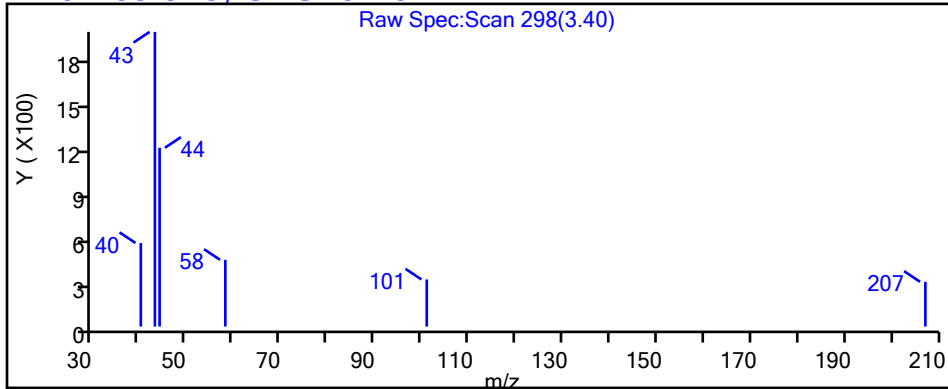
Method: 8260 25ml HP31

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\20230829-92765.b\IG29X19.D

Injection Date: 30-Aug-2023 00:03:30

Instrument ID: 19930

Lims ID: 410-140485-A-10

Lab Sample ID: 410-140485-10

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

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

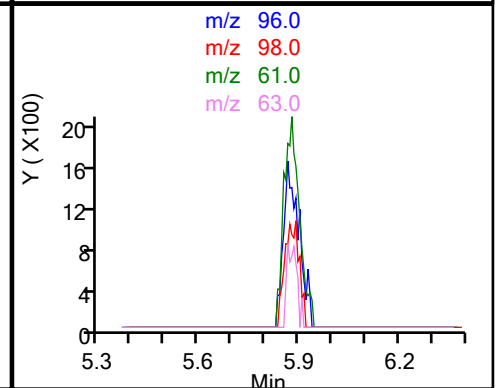
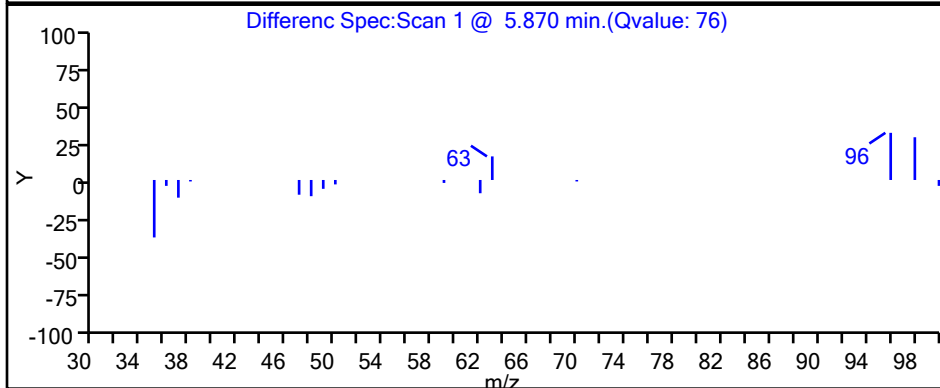
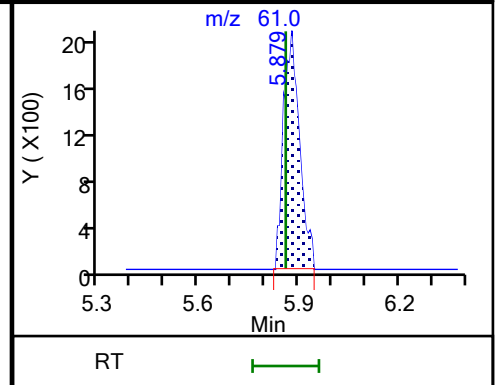
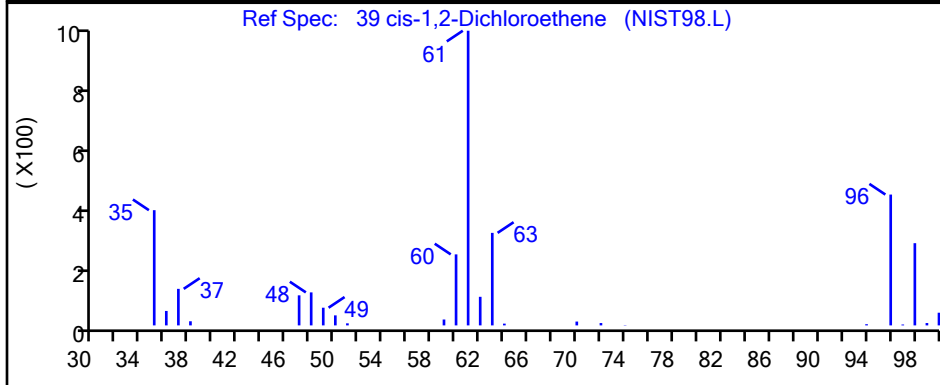
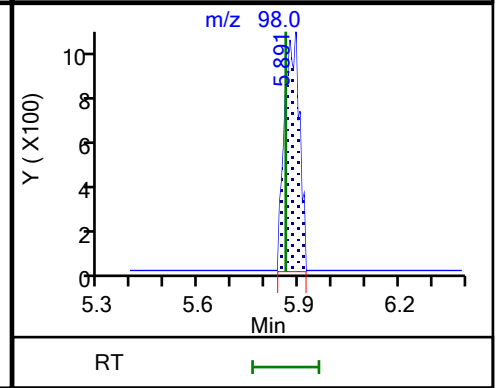
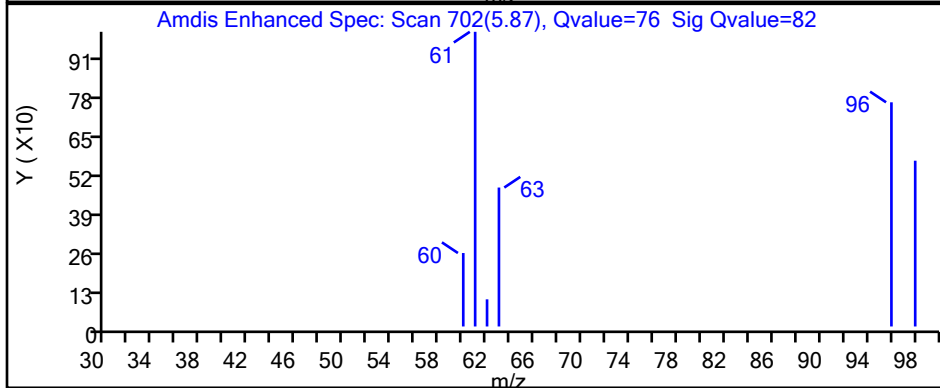
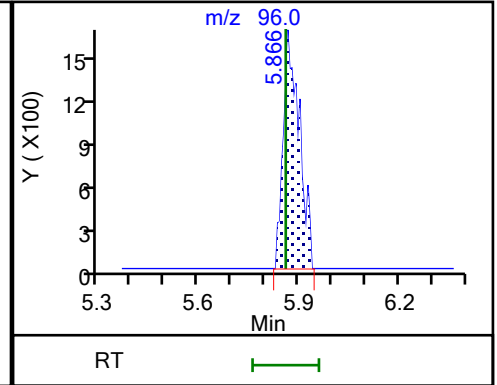
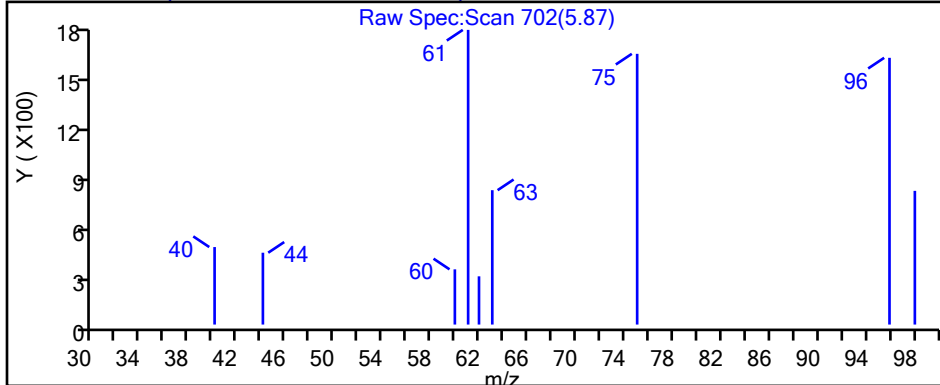
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

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



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X19.D

Injection Date: 30-Aug-2023 00:03:30

Instrument ID: 19930

Lims ID: 410-140485-A-10

Lab Sample ID: 410-140485-10

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

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

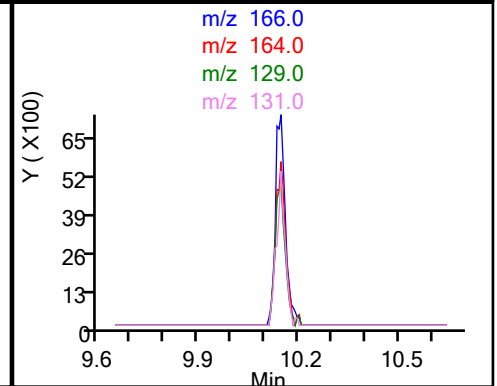
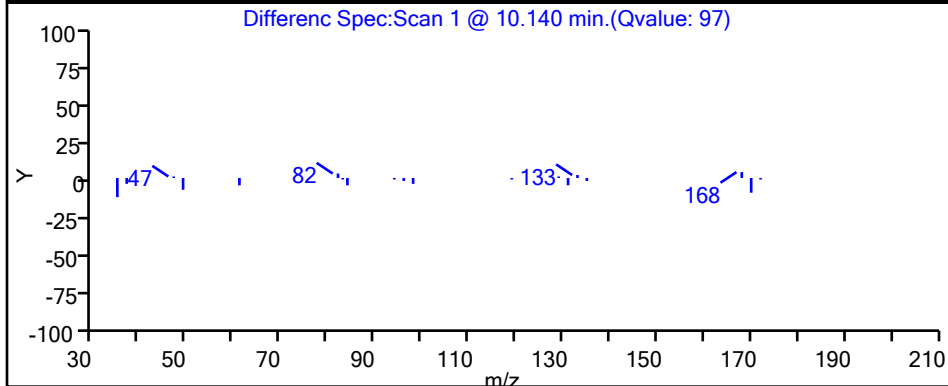
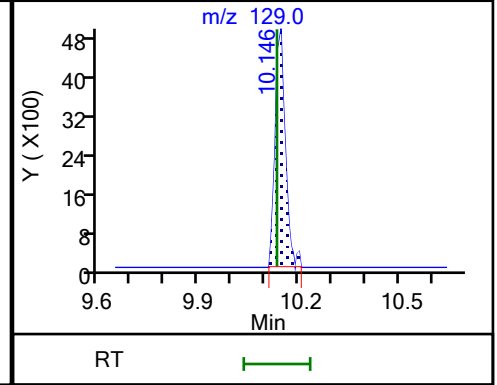
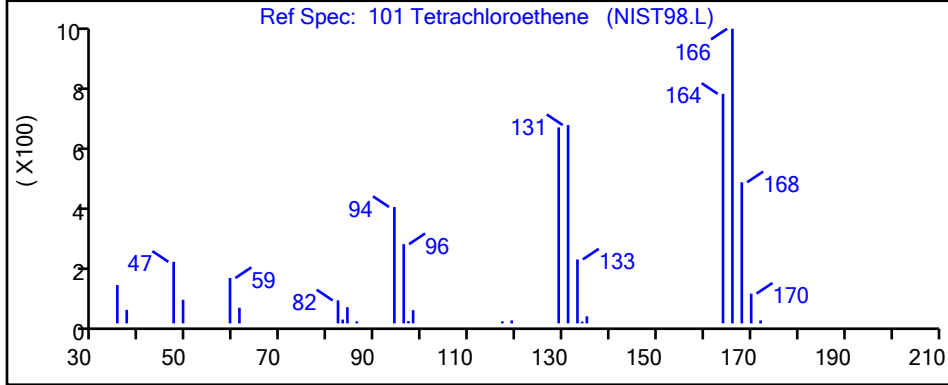
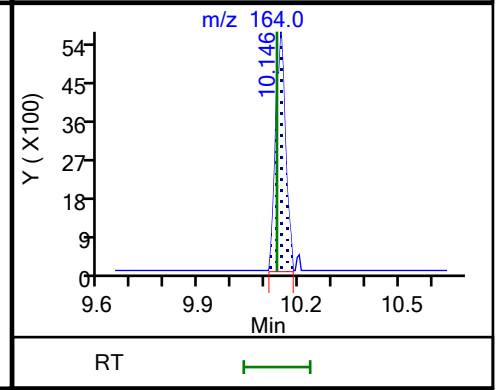
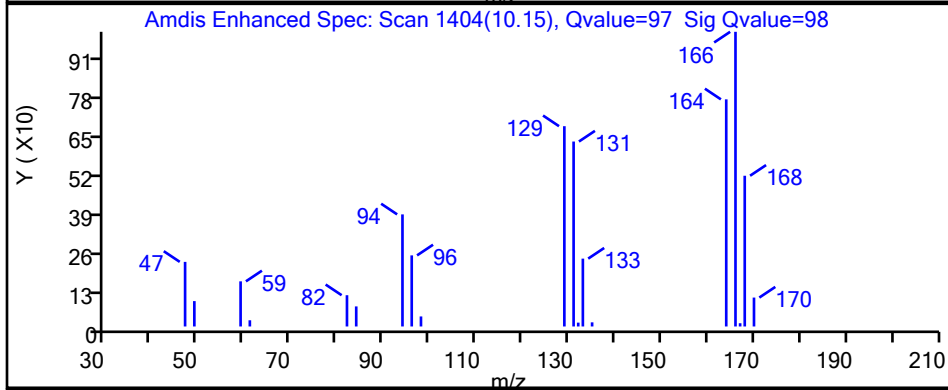
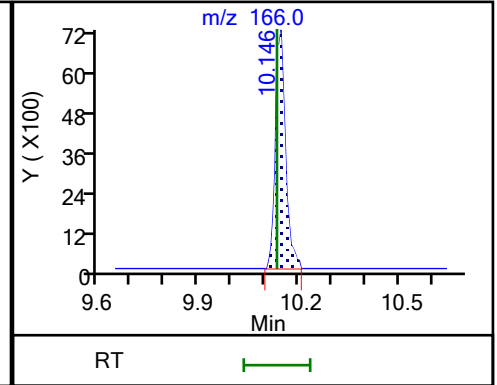
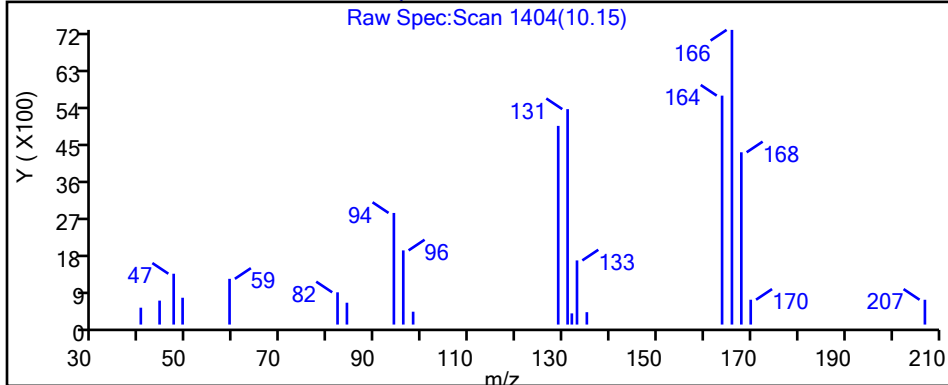
Method: 8260 25ml HP31

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\20230829-92765.b\IG29X19.D

Injection Date: 30-Aug-2023 00:03:30

Instrument ID: 19930

Lims ID: 410-140485-A-10

Lab Sample ID: 410-140485-10

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

Operator ID: gaw91131

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

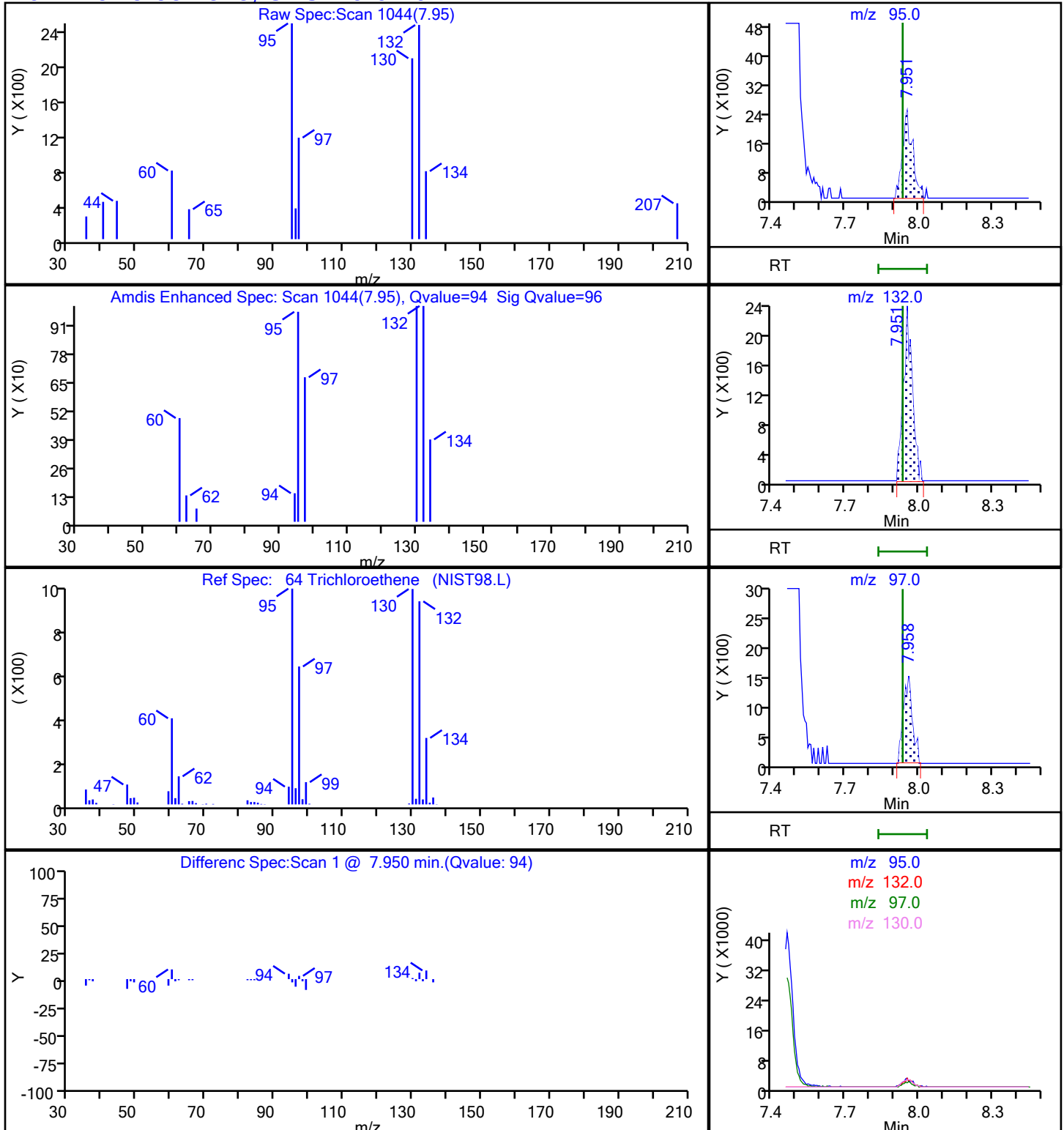
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

### 64 Trichloroethene, CAS: 79-01-6



Eurofins Lancaster Laboratories Environment Testing, LLC

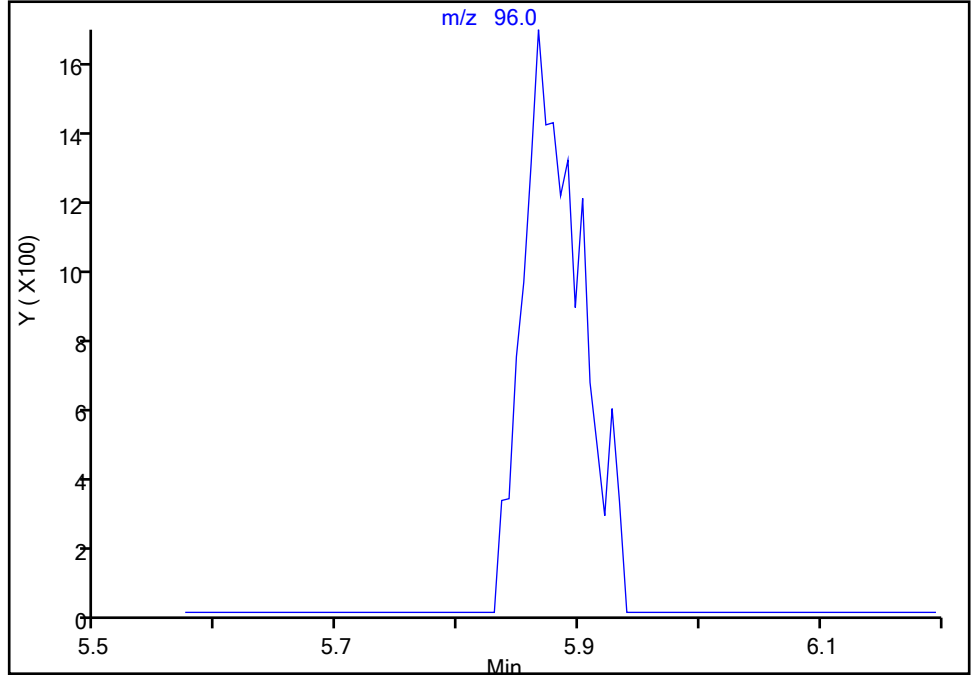
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Injection Date: 30-Aug-2023 00:03:30 Instrument ID: 19930  
Lims ID: 410-140485-A-10 Lab Sample ID: 410-140485-10  
Client ID: HD-COD-SW-27-0/1-0  
Operator ID: gaw91131 ALS Bottle#: 19 Worklist Smp#: 20  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 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**

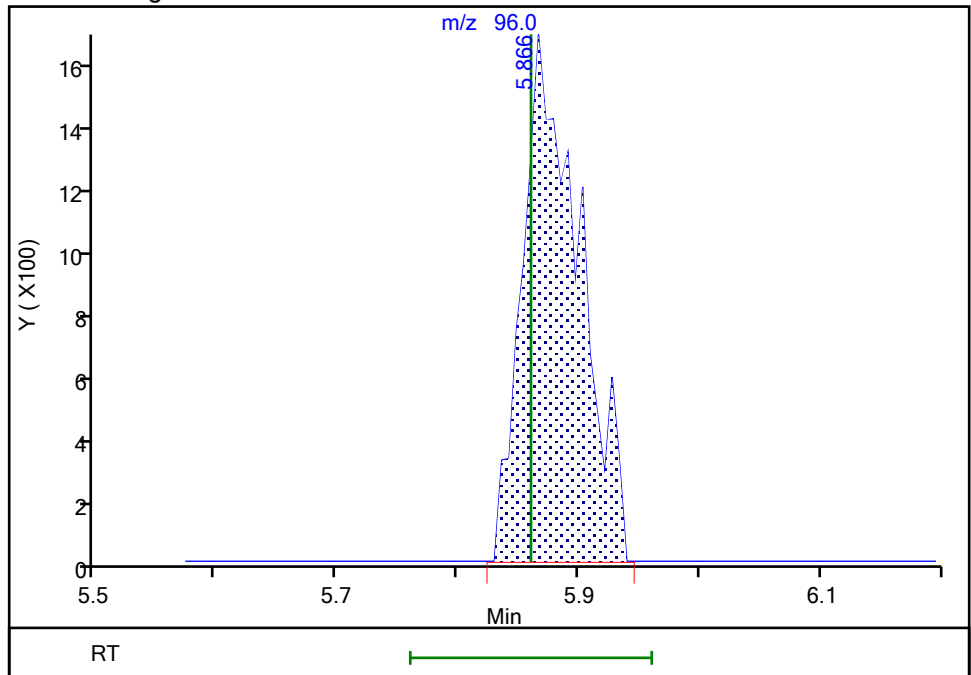
Signal: 1

Not Detected  
Expected RT: 5.86

Processing Integration Results



Manual Integration Results



RT: 5.87  
Area: 5250  
Amount: 0.115247  
Amount Units: ug/l

Reviewer: kaewrungrueangp, 30-Aug-2023 14:18:08 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.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-11

Matrix: Water

Lab File ID: IG29X20.D

Analysis Method: 8260D

Date Collected: 08/24/2023 13:20

Sample wt/vol: 25 (mL)

Date Analyzed: 08/30/2023 00:25

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.: 413930

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	^c cn	5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	3.4	J cn	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	0.11	J	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.: 410-140485-1  
 Environment Testing, LLC

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SDG No.:

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Client Sample ID: HD-COD-SW-28-0/1-0      Lab Sample ID: 410-140485-11

Matrix: Water      Lab File ID: IG29X20.D

Analysis Method: 8260D      Date Collected: 08/24/2023 13:20

Sample wt/vol: 25 (mL)      Date Analyzed: 08/30/2023 00:25

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.: 413930      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)	112		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	111		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X20.D  
 Lims ID: 410-140485-A-11  
 Client ID: HD-COD-SW-28-0/1-0  
 Sample Type: Client  
 Inject. Date: 30-Aug-2023 00:25:30 ALS Bottle#: 20 Worklist Smp#: 21  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-021  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:18:58 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp

Date: 30-Aug-2023 14:18:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.044	2.044	0.000	95	6007	0.1073	
5 Vinyl chloride	62		2.148				ND	
7 Bromomethane	94		2.471				ND	7
8 Chloroethane	64		2.544				ND	
15 1,1-Dichloroethene	96		3.342				ND	
16 Acetone	43	3.391	3.367	0.024	95	13940	3.40	
20 Carbon disulfide	76		3.635				ND	7
25 Methylene Chloride	84		3.964				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.983	3.964	0.019	22	85815	50.0	
29 Methyl tert-butyl ether	73		4.348				ND	
30 trans-1,2-Dichloroethene	96		4.361				ND	
32 1,1-Dichloroethane	63		5.019				ND	
38 2-Butanone (MEK)	43		5.824				ND	
39 cis-1,2-Dichloroethene	96	5.885	5.860	0.025	79	2808	0.0614	a
46 Chlorobromomethane	128		6.196				ND	
48 Chloroform	83	6.348	6.342	0.006	87	5740	0.0789	
\$ 49 Dibromofluoromethane (Surr)	113	6.561	6.561	0.000	93	391471	11.1	
50 1,1,1-Trichloroethane	97		6.567				ND	7
54 Carbon tetrachloride	117		6.787				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.012	0.007	63	78442	11.2	
57 Benzene	78		7.049				ND	
58 1,2-Dichloroethane	62		7.116				ND	
* 61 Fluorobenzene (IS)	96	7.458	7.451	0.007	99	1376541	10.0	
64 Trichloroethene	95	7.945	7.933	0.012	92	3562	0.0788	
66 1,2-Dichloropropane	63		8.262				ND	
71 Dichlorobromomethane	83		8.616				ND	
76 cis-1,3-Dichloropropene	75		9.177				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.353				ND	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.494	0.000	94	1407823	9.88	
79 Toluene	92	9.567	9.567	0.000	91	3067	0.0273	
97 trans-1,3-Dichloropropene	75		9.841				ND	
100 1,1,2-Trichloroethane	97		10.048				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.140	10.134	0.006	96	14005	0.2388	
103 2-Hexanone	43		10.262				ND	
105 Chlorodibromomethane	129		10.433				ND	
106 Ethylene Dibromide	107		10.542				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.981	10.981	0.000	85	1108656	10.0	
109 Chlorobenzene	112		11.006				ND	
111 1,1,1,2-Tetrachloroethane	131		11.091				ND	
112 Ethylbenzene	91		11.091				ND	
113 m-Xylene & p-Xylene	106		11.213				ND	7
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.542				ND	
115 Styrene	104		11.560				ND	
116 Bromoform	173		11.719				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.993	11.987	0.006	94	487983	9.09	
121 1,1,2,2-Tetrachloroethane	83		12.091				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.877	12.871	0.006	94	629103	10.0	

**QC Flag Legend**

## Processing Flags

7 - Failed Limit of Detection

## Review Flags

a - User Assigned ID

**Reagents:**

MSV\_LLcentISS\_00009

Amount Added: 5.00

Units: uL

Run Reagent



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X20.D

Injection Date: 30-Aug-2023 00:25:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-140485-A-11

Lab Sample ID: 410-140485-11

Worklist Smp#: 21

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

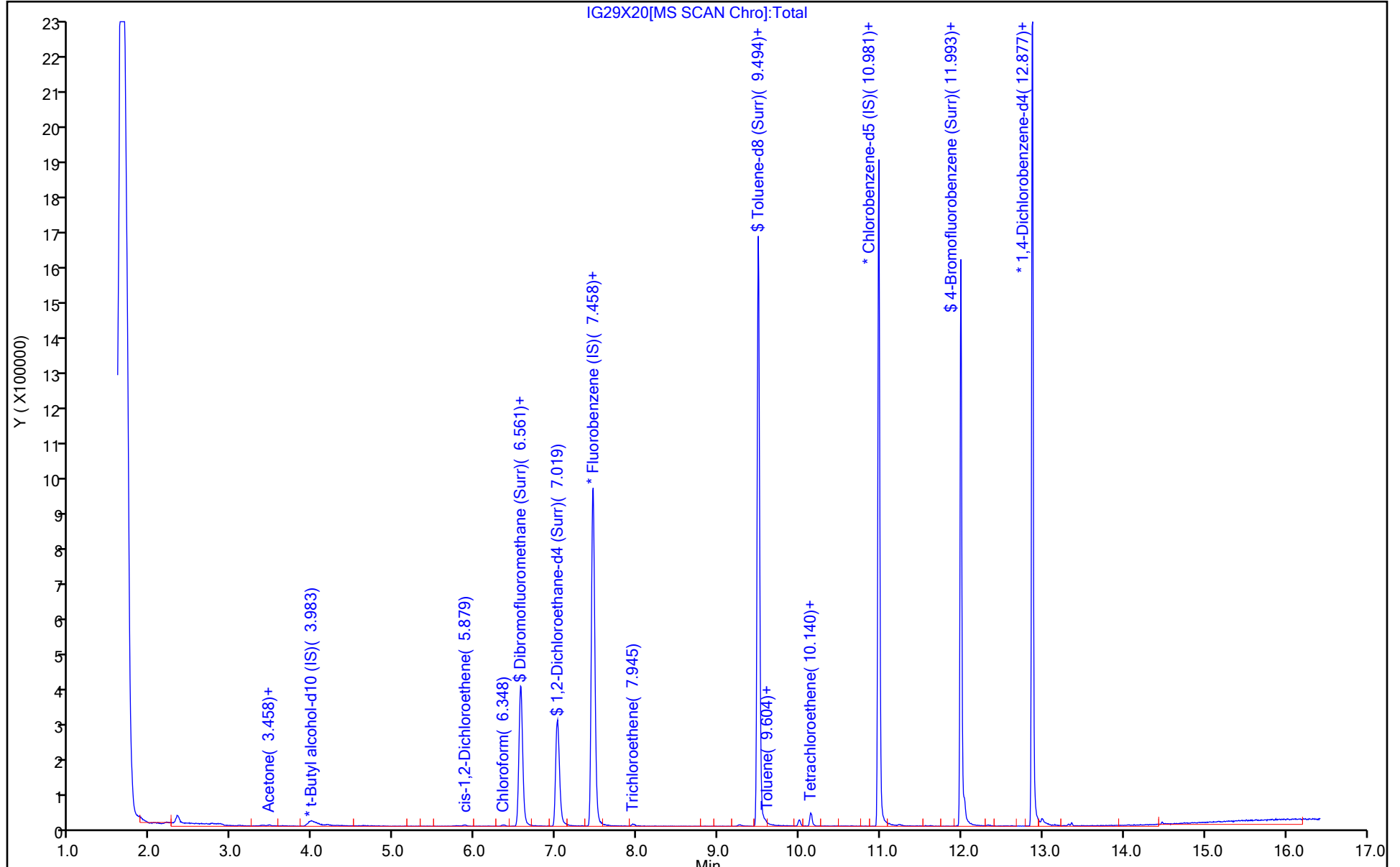
ALS Bottle#: 20

Method: 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\20230829-92765.b\IG29X20.D  
 Lims ID: 410-140485-A-11  
 Client ID: HD-COD-SW-28-0/1-0  
 Sample Type: Client  
 Inject. Date: 30-Aug-2023 00:25:30 ALS Bottle#: 20 Worklist Smp#: 21  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-021  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:18:58 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:18:58

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	11.1	110.72
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	11.2	111.89
\$ 78 Toluene-d8 (Surr)	10.0	9.88	98.77
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.09	90.86

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X20.D

Injection Date: 30-Aug-2023 00:25:30

Instrument ID: 19930

Lims ID: 410-140485-A-11

Lab Sample ID: 410-140485-11

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

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

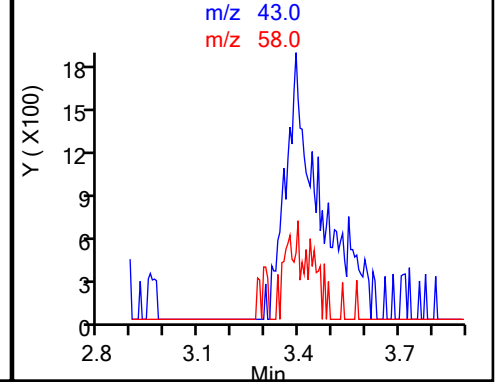
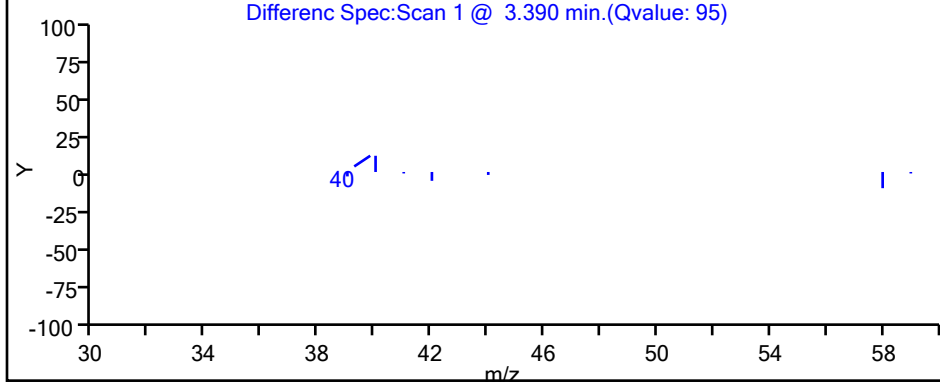
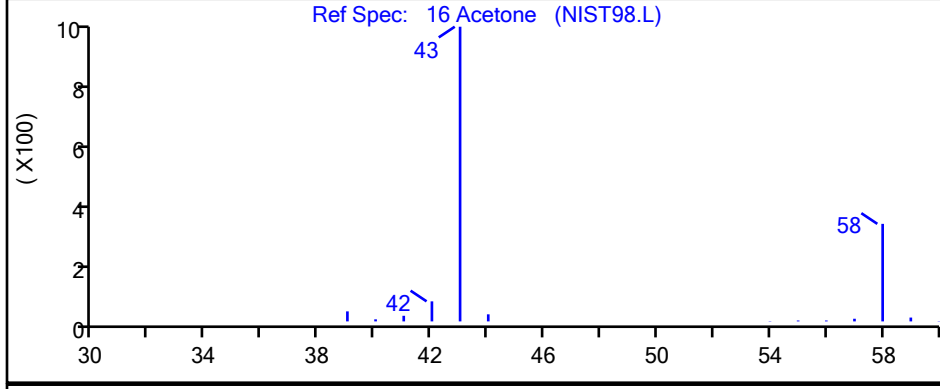
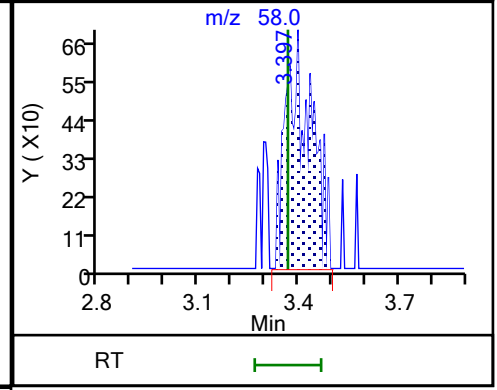
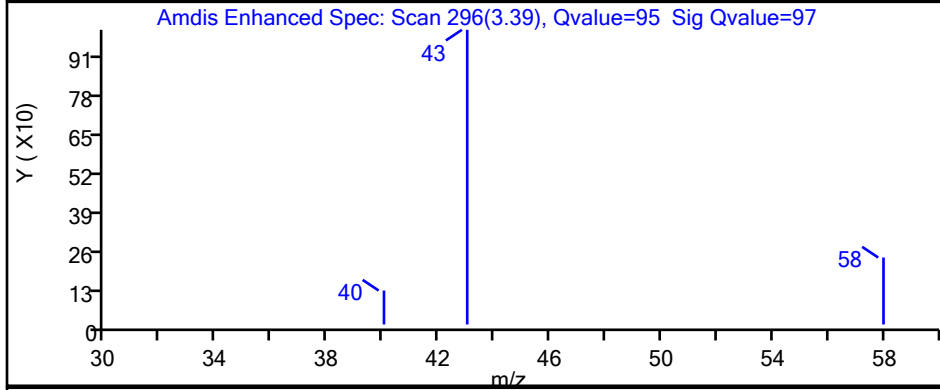
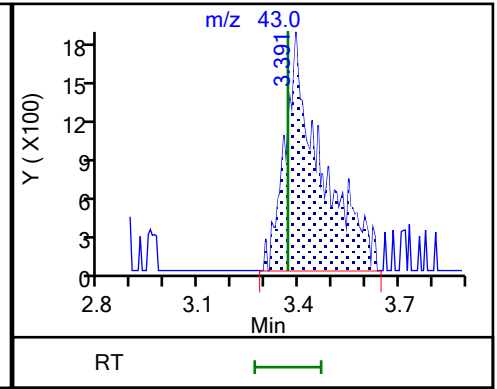
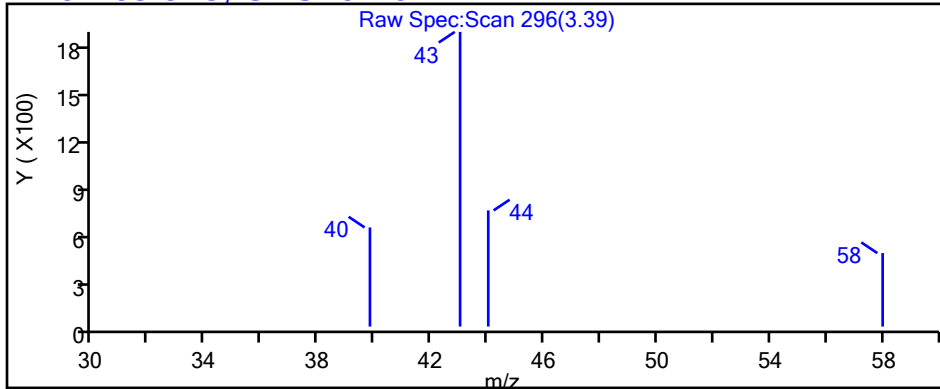
Method: 8260 25ml HP31

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\20230829-92765.b\IG29X20.D

Injection Date: 30-Aug-2023 00:25:30

Instrument ID: 19930

Lims ID: 410-140485-A-11

Lab Sample ID: 410-140485-11

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

Operator ID: gaw91131

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

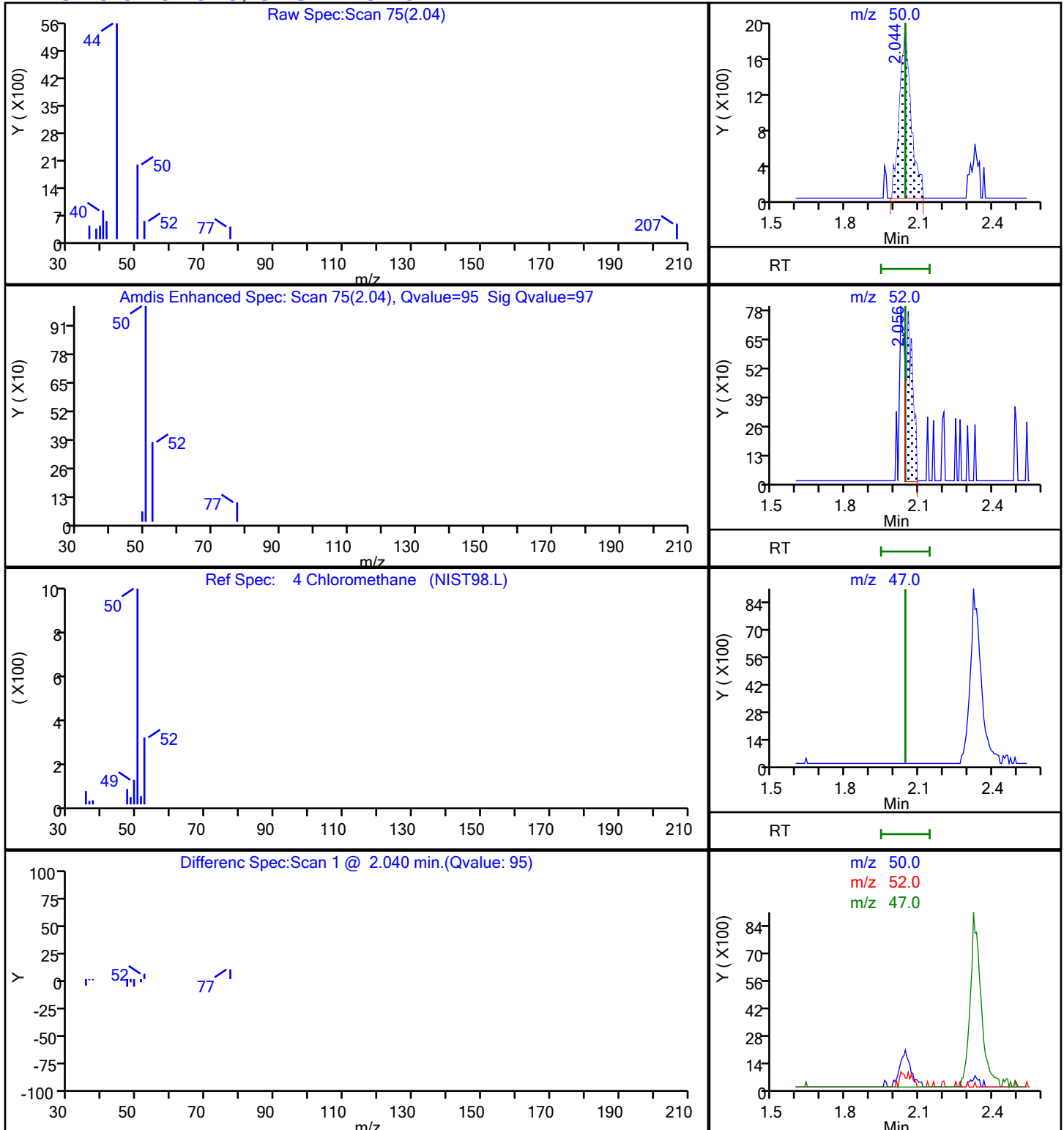
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

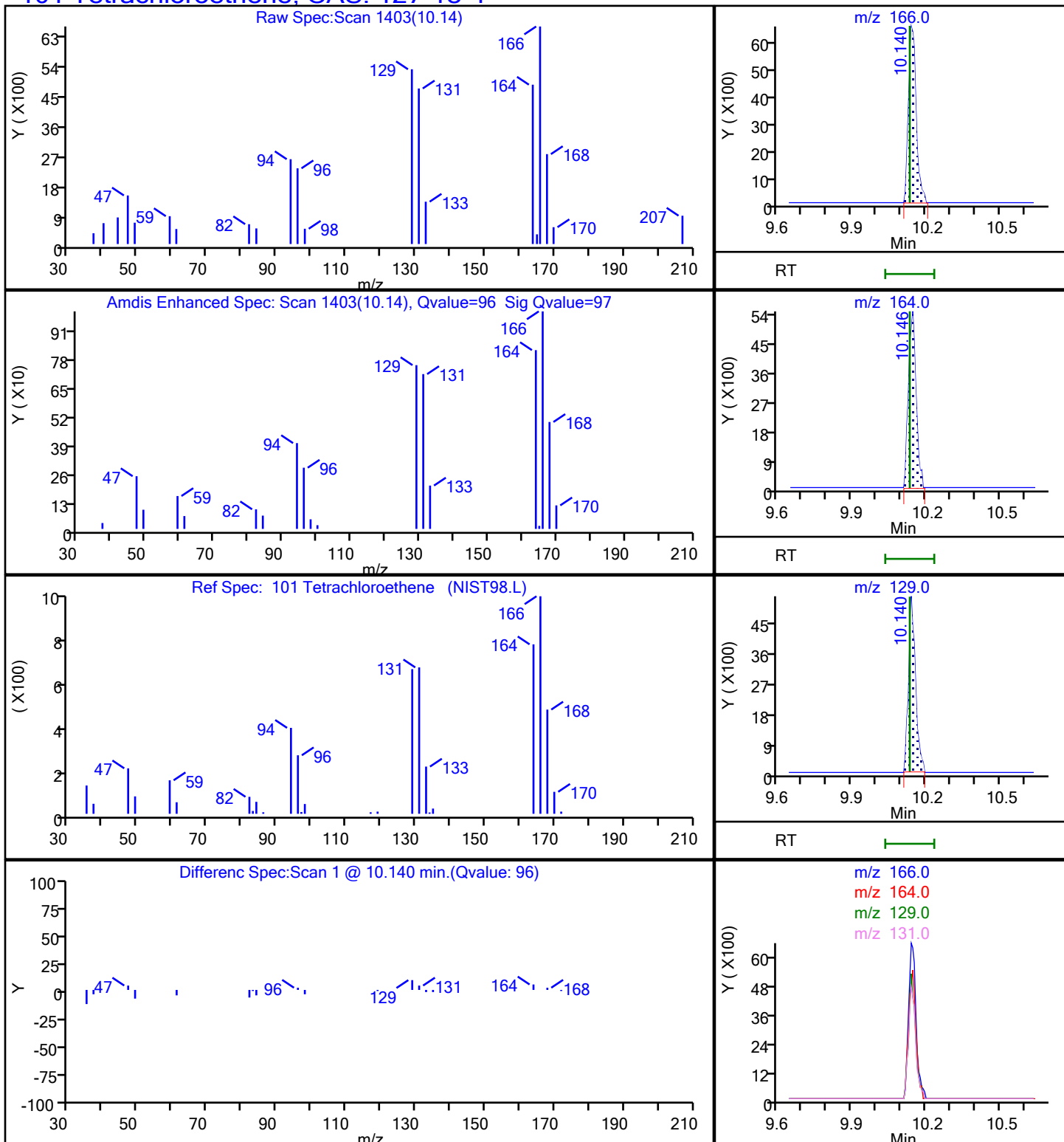
MS Quad

### 4 Chloromethane, CAS: 74-87-3



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X20.D  
Injection Date: 30-Aug-2023 00:25:30 Instrument ID: 19930  
Lims ID: 410-140485-A-11 Lab Sample ID: 410-140485-11  
Client ID: HD-COD-SW-28-0/1-0  
Operator ID: gaw91131 ALS Bottle#: 20 Worklist Smp#: 21  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

101 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

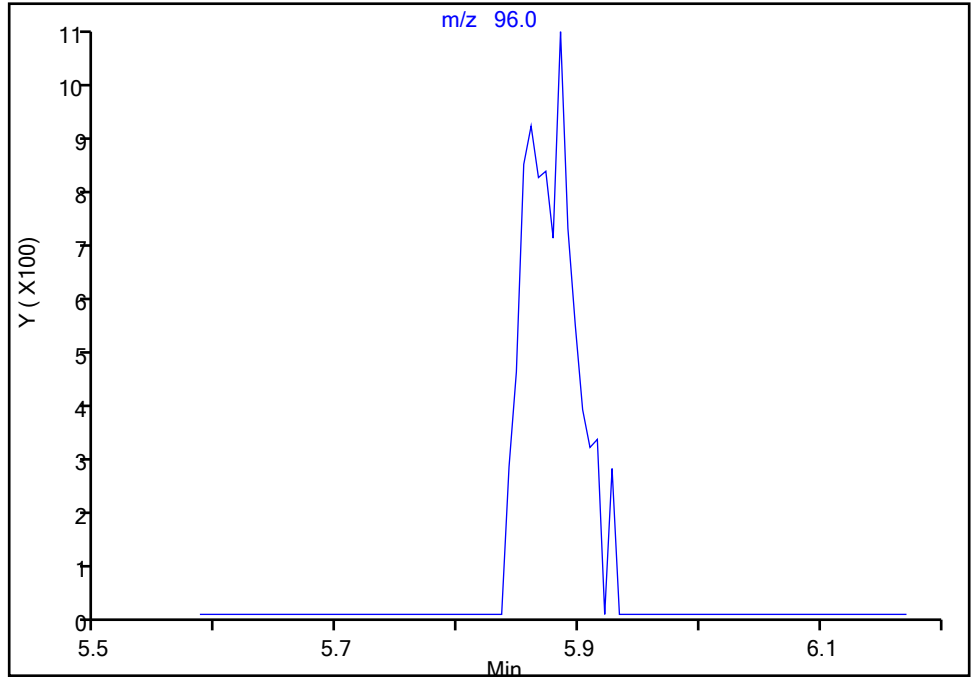
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Injection Date: 30-Aug-2023 00:25:30 Instrument ID: 19930  
Lims ID: 410-140485-A-11 Lab Sample ID: 410-140485-11  
Client ID: HD-COD-SW-28-0/1-0  
Operator ID: gaw91131 ALS Bottle#: 20 Worklist Smp#: 21  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 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

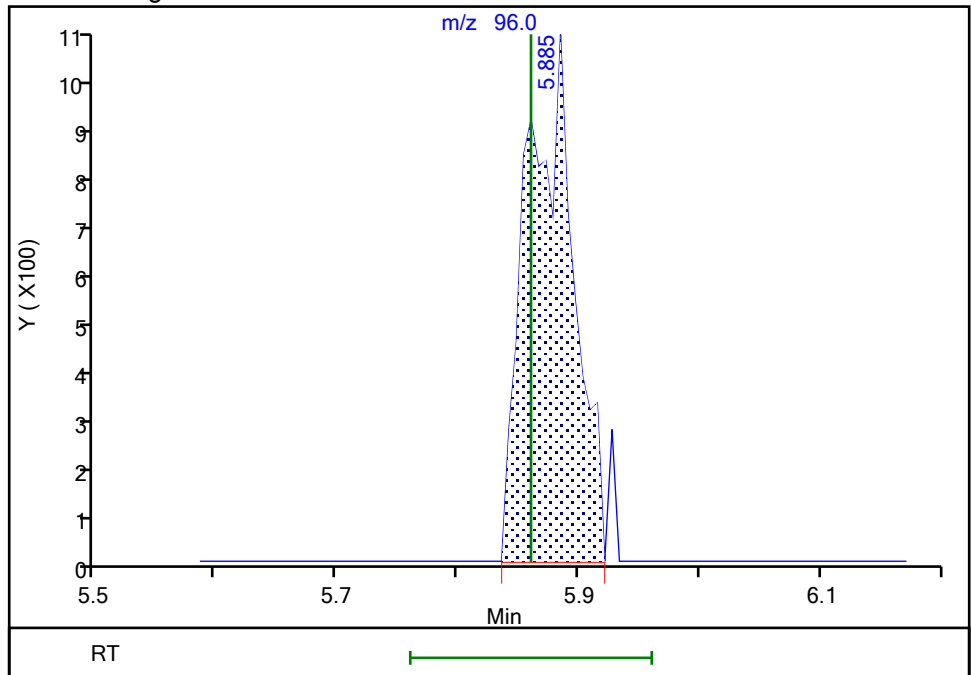
Not Detected  
Expected RT: 5.86

Processing Integration Results



Manual Integration Results

RT: 5.88  
Area: 2808  
Amount: 0.061430  
Amount Units: ug/l



Reviewer: kaewrungrueangp, 30-Aug-2023 14:18:44 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.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-12

Matrix: Water

Lab File ID: IG29X21.D

Analysis Method: 8260D

Date Collected: 08/24/2023 08:50

Sample wt/vol: 25 (mL)

Date Analyzed: 08/30/2023 00:46

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 413930

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	^c cn	5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.5	J cn	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	0.13	J	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.18	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.65		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.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-12

Matrix: Water

Lab File ID: IG29X21.D

Analysis Method: 8260D

Date Collected: 08/24/2023 08:50

Sample wt/vol: 25 (mL)

Date Analyzed: 08/30/2023 00:46

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 413930

Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	111		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\20230829-92765.b\IG29X21.D  
 Lims ID: 410-140485-A-12  
 Client ID: HD-COD-SW-29-0/1-0  
 Sample Type: Client  
 Inject. Date: 30-Aug-2023 00:46:30 ALS Bottle#: 21 Worklist Smp#: 22  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-022  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:18:58 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp

Date: 30-Aug-2023 14:20:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.038	2.044	-0.006	93	7278	0.1349	
5 Vinyl chloride	62		2.148				ND	7
7 Bromomethane	94		2.471				ND	7
8 Chloroethane	64		2.544				ND	
15 1,1-Dichloroethene	96		3.342				ND	
16 Acetone	43	3.385	3.367	0.018	69	10835	2.46	
20 Carbon disulfide	76	3.617	3.635	-0.018	94	3212	0.0333	
25 Methylene Chloride	84		3.964				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.970	3.964	0.006	23	92130	50.0	
29 Methyl tert-butyl ether	73		4.348				ND	
30 trans-1,2-Dichloroethene	96		4.361				ND	
32 1,1-Dichloroethane	63		5.019				ND	
38 2-Butanone (MEK)	43		5.824				ND	
39 cis-1,2-Dichloroethene	96	5.872	5.860	0.012	74	8143	0.1848	
46 Chlorobromomethane	128		6.196				ND	
48 Chloroform	83	6.348	6.342	0.006	89	5416	0.0773	
\$ 49 Dibromofluoromethane (Surr)	113	6.561	6.561	0.000	94	379353	11.1	
50 1,1,1-Trichloroethane	97	6.561	6.567	-0.006	42	3308	0.0506	
54 Carbon tetrachloride	117		6.787				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.012	0.007	63	74839	11.1	
57 Benzene	78		7.049				ND	
58 1,2-Dichloroethane	62		7.116				ND	
* 61 Fluorobenzene (IS)	96	7.451	7.451	0.000	99	1326654	10.0	
64 Trichloroethene	95	7.945	7.933	0.012	96	7544	0.1731	
66 1,2-Dichloropropane	63		8.262				ND	
71 Dichlorobromomethane	83		8.616				ND	
76 cis-1,3-Dichloropropene	75		9.177				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.353				ND	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.494	0.000	94	1388752	10.0	
79 Toluene	92		9.567				ND	7
97 trans-1,3-Dichloropropene	75		9.841				ND	
100 1,1,2-Trichloroethane	97		10.048				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.140	10.134	0.006	97	37232	0.6541	
103 2-Hexanone	43		10.262				ND	
105 Chlorodibromomethane	129		10.433				ND	
106 Ethylene Dibromide	107		10.542				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.981	10.981	0.000	85	1076066	10.0	
109 Chlorobenzene	112		11.006				ND	
111 1,1,1,2-Tetrachloroethane	131		11.091				ND	
112 Ethylbenzene	91		11.091				ND	
113 m-Xylene & p-Xylene	106		11.213				ND	
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.542				ND	
115 Styrene	104		11.560				ND	
116 Bromoform	173		11.719				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.993	11.987	0.006	93	477295	9.16	
121 1,1,2,2-Tetrachloroethane	83		12.091				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.877	12.871	0.006	94	603481	10.0	

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

**Reagents:**

MSV\_LLcentISS\_00009

Amount Added: 5.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X21.D

Injection Date: 30-Aug-2023 00:46:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-140485-A-12

Lab Sample ID: 410-140485-12

Worklist Smp#: 22

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

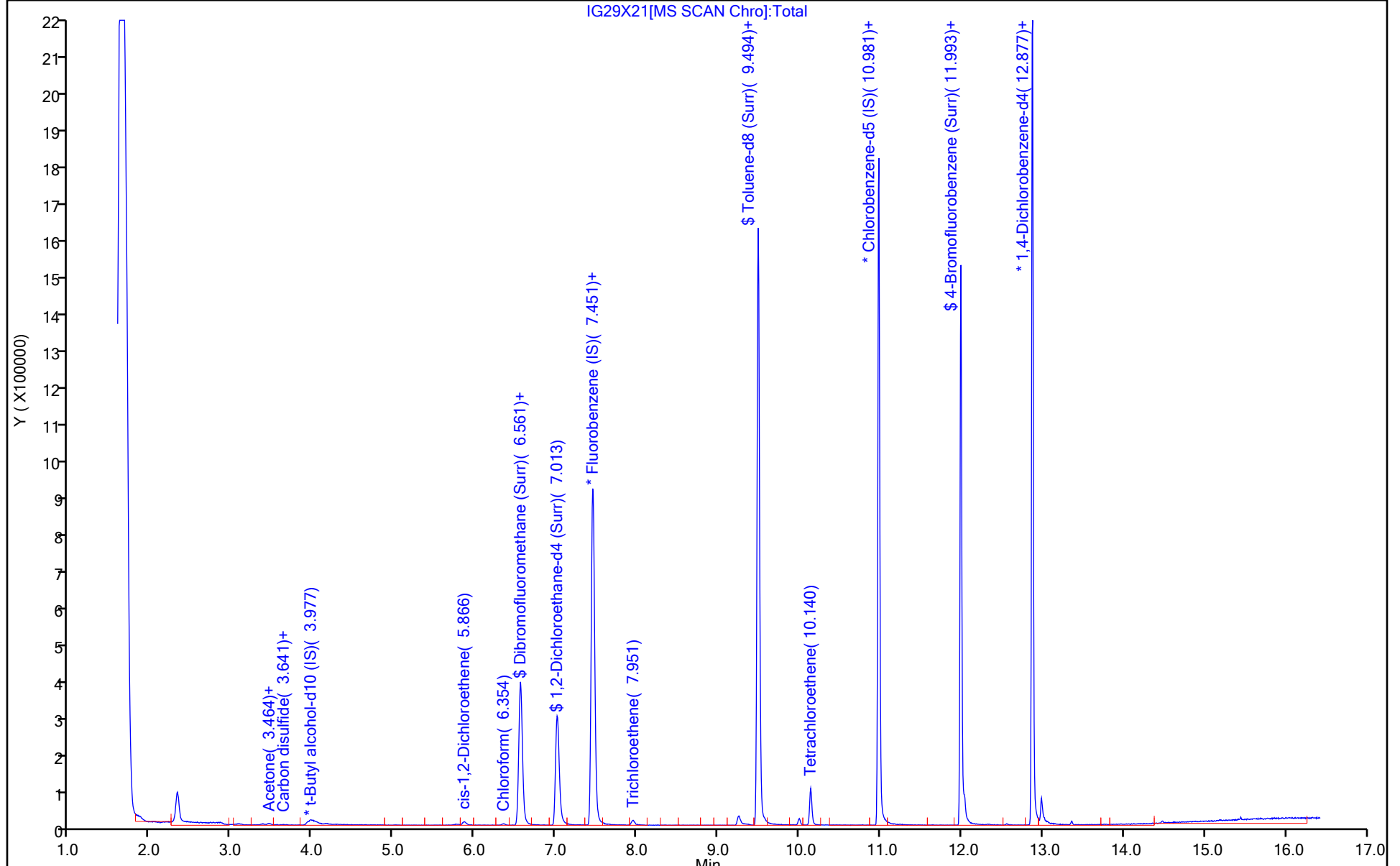
ALS Bottle#: 21

Method: 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\20230829-92765.b\IG29X21.D  
 Lims ID: 410-140485-A-12  
 Client ID: HD-COD-SW-29-0/1-0  
 Sample Type: Client  
 Inject. Date: 30-Aug-2023 00:46:30 ALS Bottle#: 21 Worklist Smp#: 22  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-022  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:18:58 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:20:27

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	11.1	111.33
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	11.1	110.77
\$ 78 Toluene-d8 (Surr)	10.0	10.0	100.38
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.16	91.56

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X21.D

Injection Date: 30-Aug-2023 00:46:30

Instrument ID: 19930

Lims ID: 410-140485-A-12

Lab Sample ID: 410-140485-12

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

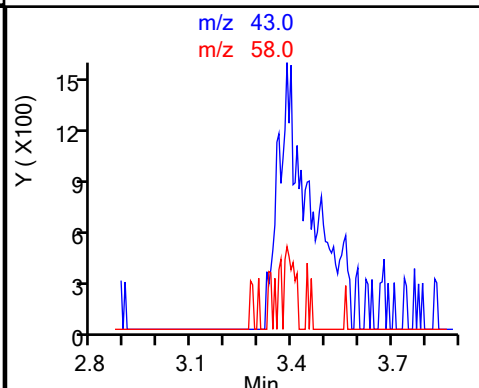
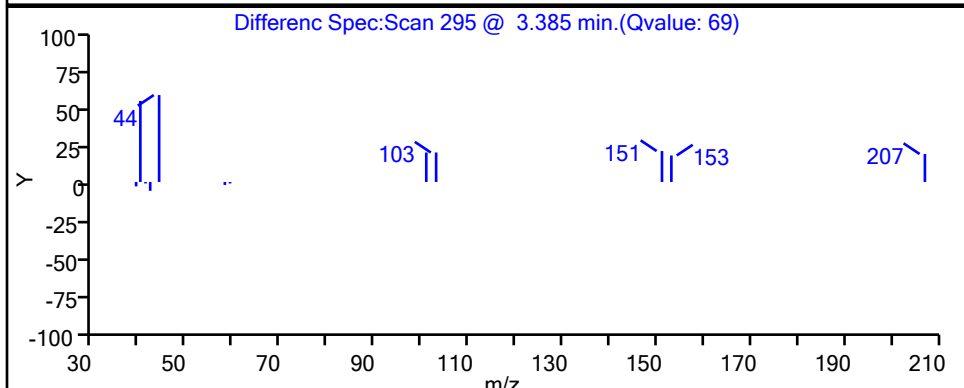
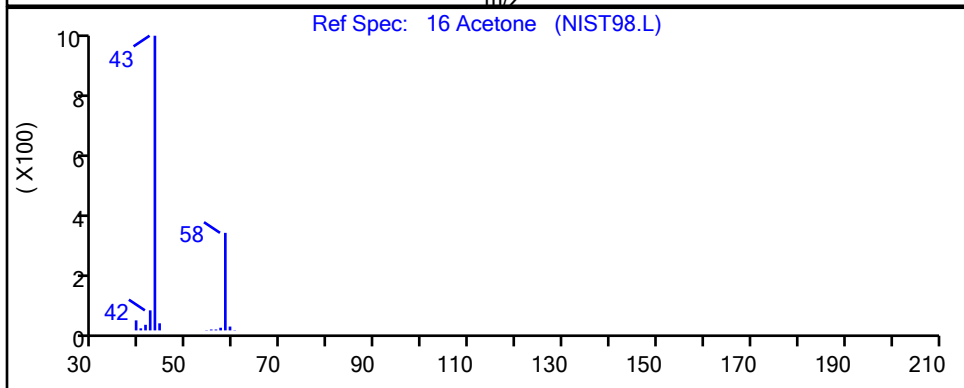
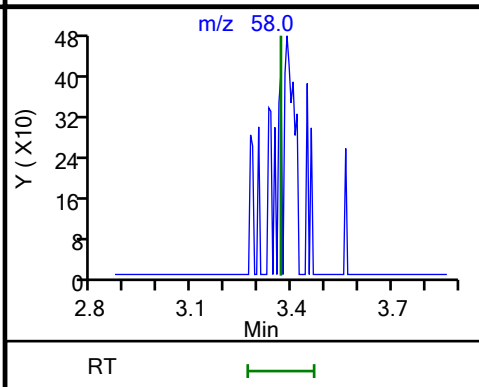
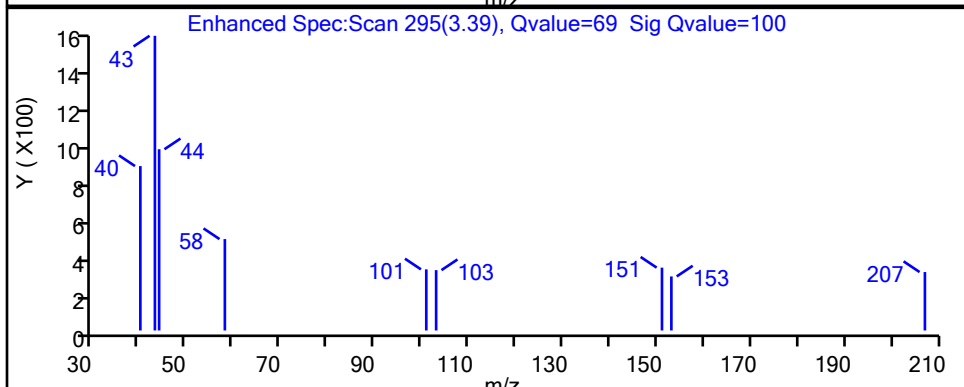
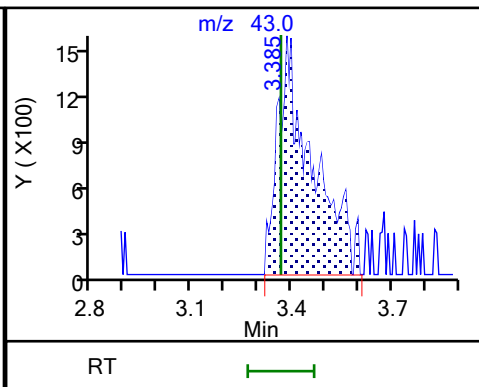
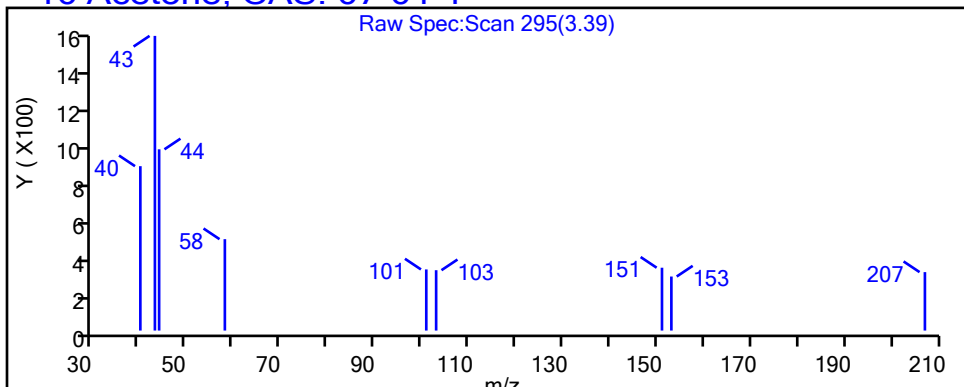
Method: 8260 25ml HP31

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\20230829-92765.b\IG29X21.D

Injection Date: 30-Aug-2023 00:46:30

Instrument ID: 19930

Lims ID: 410-140485-A-12

Lab Sample ID: 410-140485-12

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

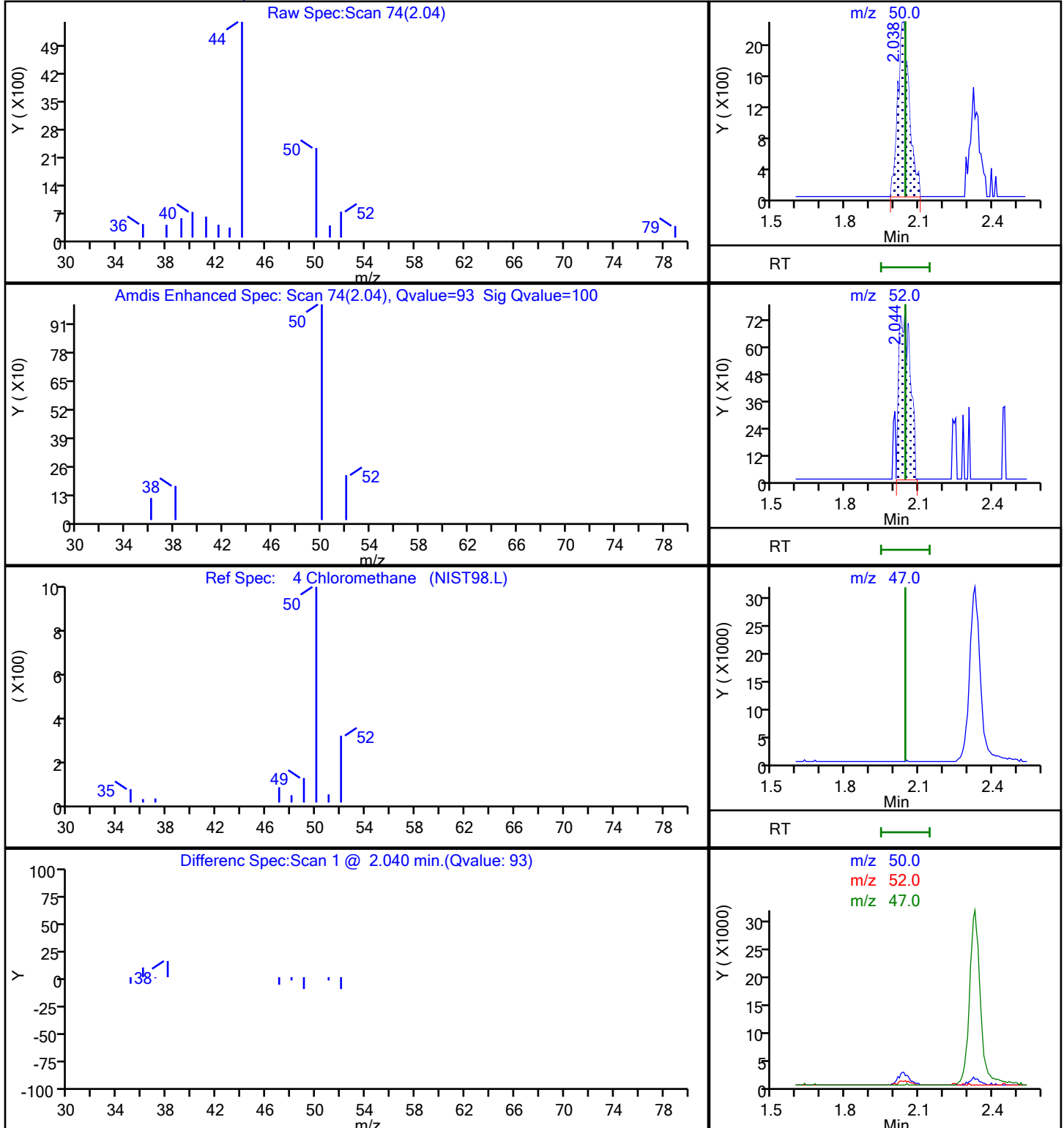
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

### 4 Chloromethane, CAS: 74-87-3



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X21.D

Injection Date: 30-Aug-2023 00:46:30

Instrument ID: 19930

Lims ID: 410-140485-A-12

Lab Sample ID: 410-140485-12

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

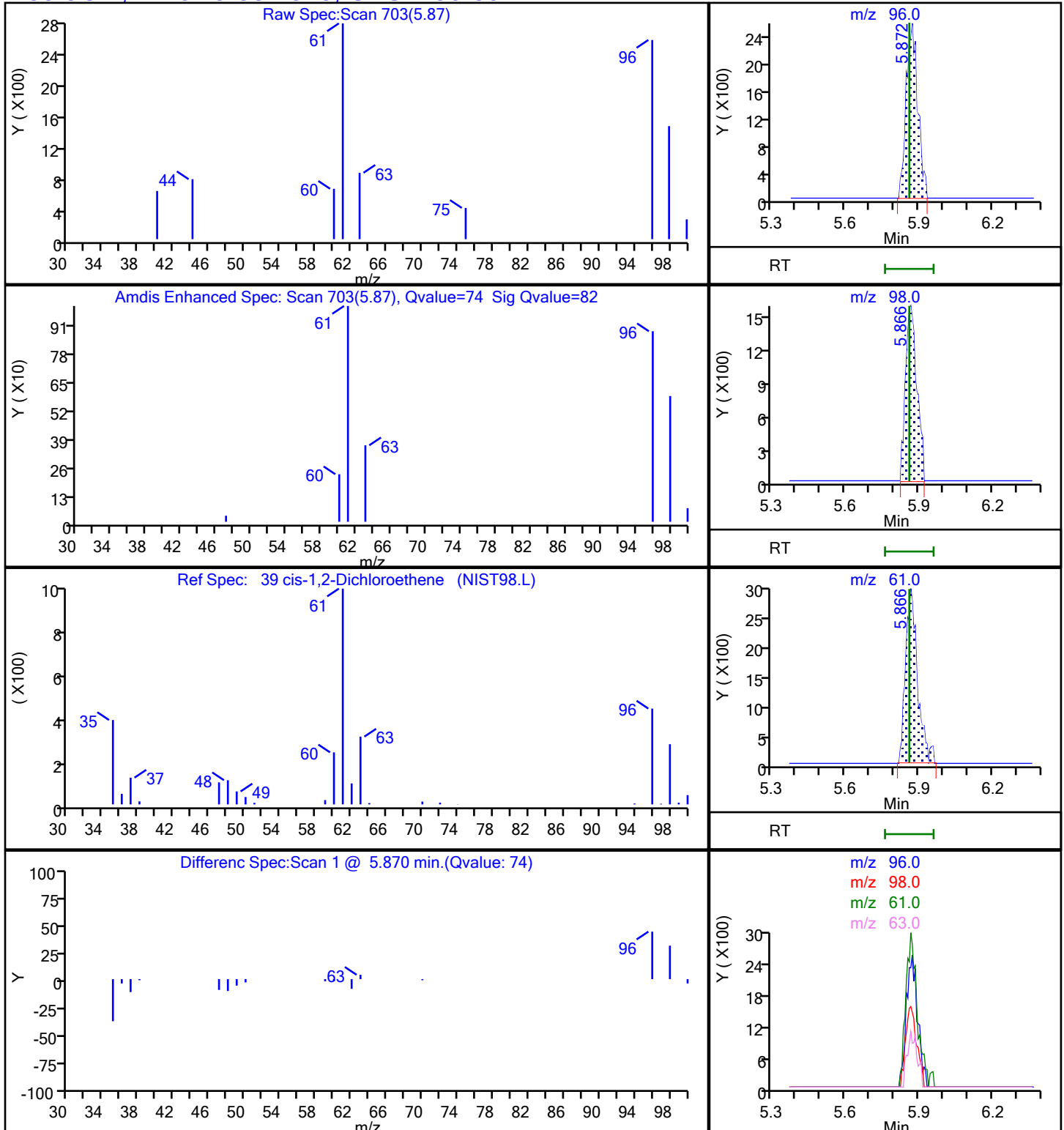
Method: 8260 25ml HP31

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\20230829-92765.b\IG29X21.D

Injection Date: 30-Aug-2023 00:46:30

Instrument ID: 19930

Lims ID: 410-140485-A-12

Lab Sample ID: 410-140485-12

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

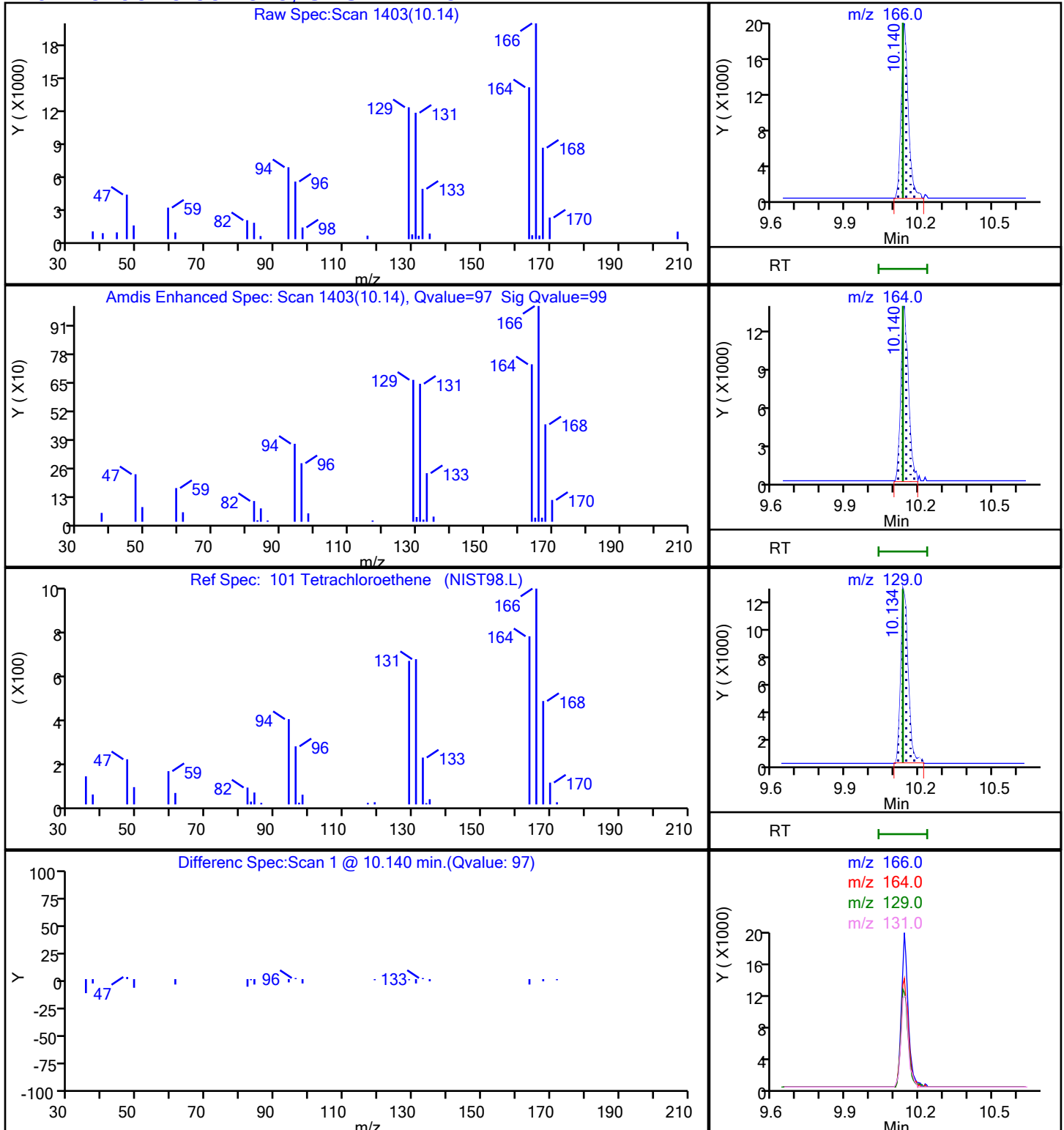
Method: 8260 25ml HP31

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\20230829-92765.b\IG29X21.D

Injection Date: 30-Aug-2023 00:46:30

Instrument ID: 19930

Lims ID: 410-140485-A-12

Lab Sample ID: 410-140485-12

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

Operator ID: gaw91131

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

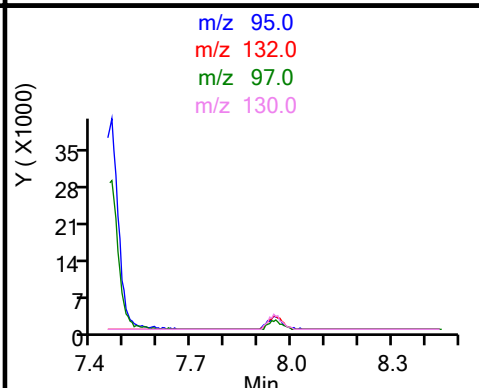
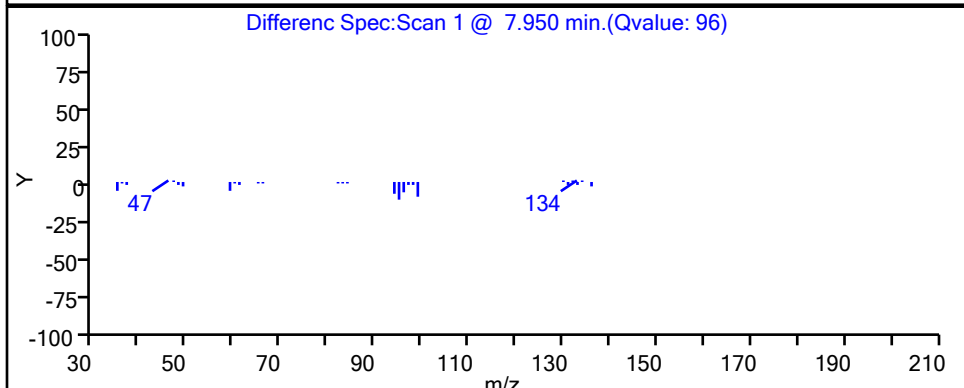
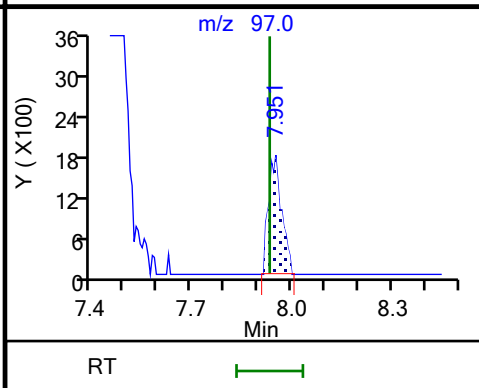
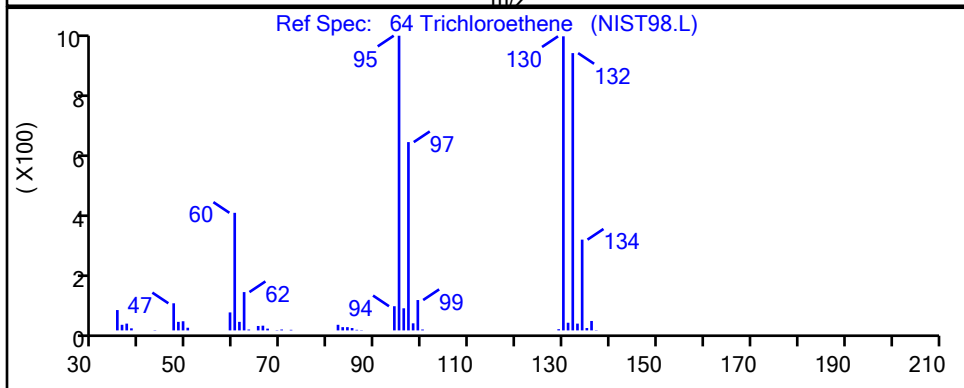
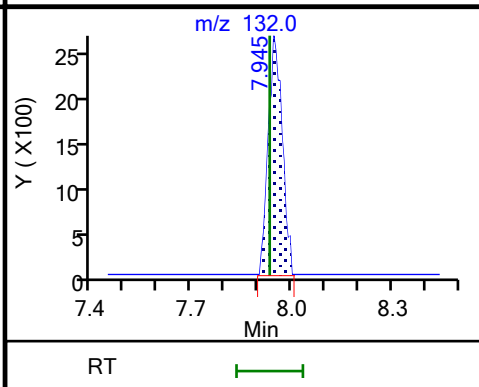
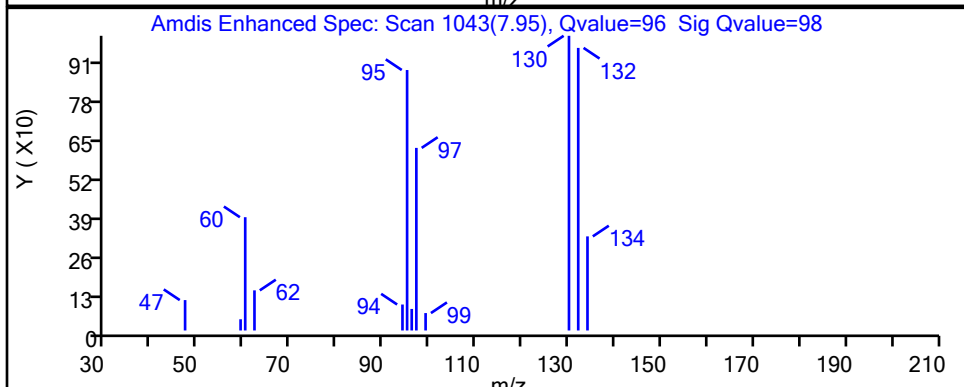
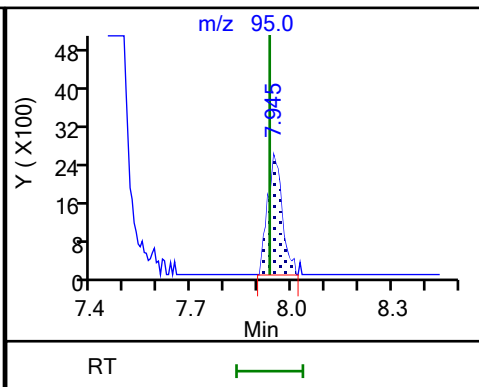
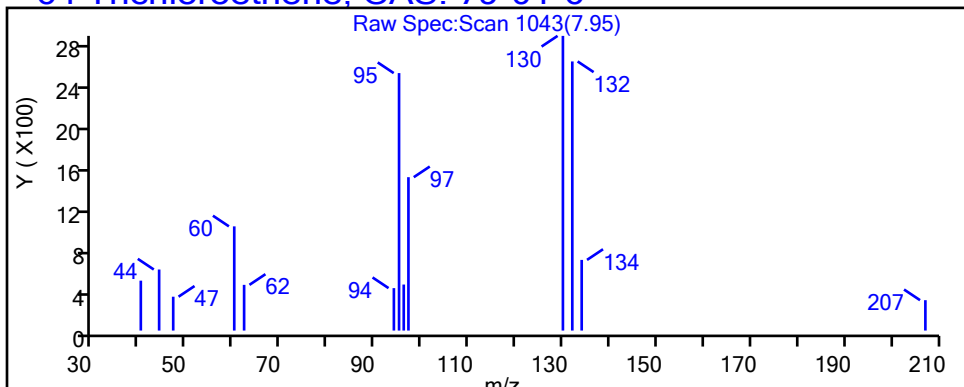
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

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.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-13

Matrix: Water

Lab File ID: IG29X29.D

Analysis Method: 8260D

Date Collected: 08/24/2023 12:00

Sample wt/vol: 25 (mL)

Date Analyzed: 08/30/2023 03:33

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.: 413930

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	8.6		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	1.8		0.50	0.10
75-35-4	1,1-Dichloroethene	0.68		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	^c cn	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	0.23	J	0.50	0.090
74-87-3	Chloromethane	0.10	J	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	2.4		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.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-13

Matrix: Water

Lab File ID: IG29X29.D

Analysis Method: 8260D

Date Collected: 08/24/2023 12:00

Sample wt/vol: 25 (mL)

Date Analyzed: 08/30/2023 03:33

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.: 413930

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	4.7		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X29.D  
 Lims ID: 410-140485-A-13  
 Client ID: HD-QC1-0/1-1  
 Sample Type: Client  
 Inject. Date: 30-Aug-2023 03:33:30 ALS Bottle#: 29 Worklist Smp#: 30  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-030  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:56:48 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp

Date: 30-Aug-2023 14:56:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.050	2.044	0.006	4	5677	0.0996	
5 Vinyl chloride	62		2.148				ND	
7 Bromomethane	94		2.471				ND	7
8 Chloroethane	64		2.544				ND	
15 1,1-Dichloroethene	96	3.349	3.342	0.007	98	25736	0.6846	
16 Acetone	43		3.367				ND	U
20 Carbon disulfide	76		3.635				ND	
25 Methylene Chloride	84		3.964				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.989	3.964	0.025	23	104039	50.0	
29 Methyl tert-butyl ether	73		4.348				ND	7
30 trans-1,2-Dichloroethene	96		4.361				ND	7
32 1,1-Dichloroethane	63	5.025	5.019	0.006	96	126566	1.77	
38 2-Butanone (MEK)	43		5.824				ND	
39 cis-1,2-Dichloroethene	96	5.873	5.860	0.013	80	111660	2.40	
46 Chlorobromomethane	128		6.196				ND	
48 Chloroform	83	6.354	6.342	0.012	93	17049	0.2303	
\$ 49 Dibromofluoromethane (Surr)	113	6.568	6.561	0.007	93	391544	10.9	
50 1,1,1-Trichloroethane	97	6.574	6.567	0.007	99	592085	8.56	
54 Carbon tetrachloride	117	6.787	6.787	0.000	79	2248	0.0365	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.013	7.012	0.001	63	78050	10.9	
57 Benzene	78		7.049				ND	
58 1,2-Dichloroethane	62		7.116				ND	
* 61 Fluorobenzene (IS)	96	7.458	7.451	0.007	99	1401718	10.0	
64 Trichloroethene	95	7.939	7.933	0.006	97	218473	4.74	
66 1,2-Dichloropropane	63		8.262				ND	
71 Dichlorobromomethane	83		8.616				ND	
76 cis-1,3-Dichloropropene	75		9.177				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.353				ND	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.494	0.000	94	1429606	9.62	
79 Toluene	92		9.567				ND	
97 trans-1,3-Dichloropropene	75		9.841				ND	
100 1,1,2-Trichloroethane	97		10.048				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.140	10.134	0.006	98	6787431	111.0	E
103 2-Hexanone	43		10.262				ND	
105 Chlorodibromomethane	129		10.433				ND	
106 Ethylene Dibromide	107		10.542				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.981	10.981	0.000	85	1155689	10.0	
109 Chlorobenzene	112		11.006				ND	
111 1,1,1,2-Tetrachloroethane	131		11.091				ND	
112 Ethylbenzene	91		11.091				ND	
113 m-Xylene & p-Xylene	106		11.213				ND	
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.542				ND	
115 Styrene	104		11.560				ND	
116 Bromoform	173		11.719				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.993	11.987	0.006	94	508166	9.08	
121 1,1,2,2-Tetrachloroethane	83		12.091				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.877	12.871	0.006	94	635354	10.0	

### QC Flag Legend

#### Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

#### Review Flags

U - Marked Undetected

### Reagents:

MSV\_LLcentISS\_00009

Amount Added: 5.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X29.D

Injection Date: 30-Aug-2023 03:33:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-140485-A-13

Lab Sample ID: 410-140485-13

Worklist Smp#: 30

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

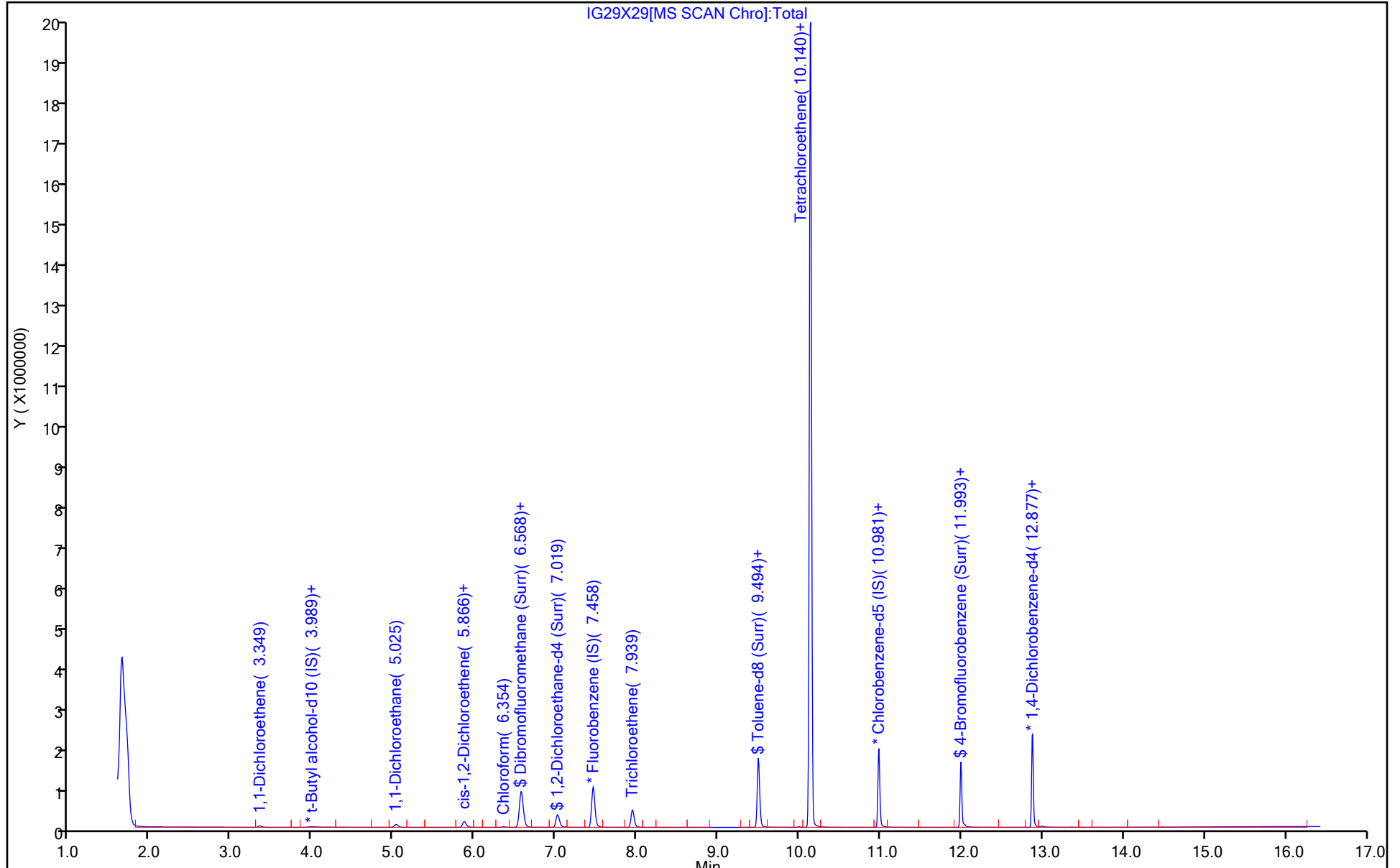
ALS Bottle#: 29

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\20230829-92765.b\IG29X29.D  
 Lims ID: 410-140485-A-13  
 Client ID: HD-QC1-0/1-1  
 Sample Type: Client  
 Inject. Date: 30-Aug-2023 03:33:30 ALS Bottle#: 29 Worklist Smp#: 30  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-030  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:56:48 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 14:56:48

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	10.9	108.75
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.9	109.33
\$ 78 Toluene-d8 (Surr)	10.0	9.62	96.22
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.08	90.76

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X29.D

Injection Date: 30-Aug-2023 03:33:30

Instrument ID: 19930

Lims ID: 410-140485-A-13

Lab Sample ID: 410-140485-13

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

Operator ID: gaw91131

ALS Bottle#: 29

Worklist Smp#: 30

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

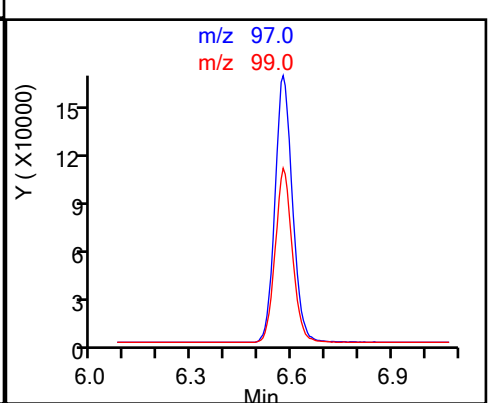
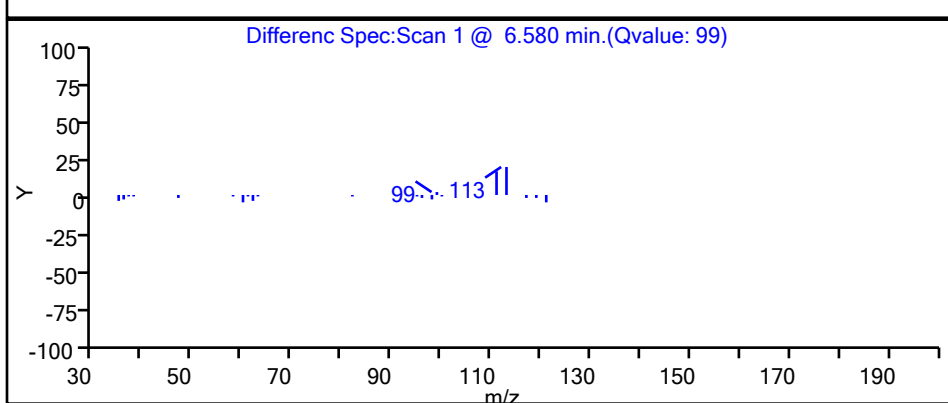
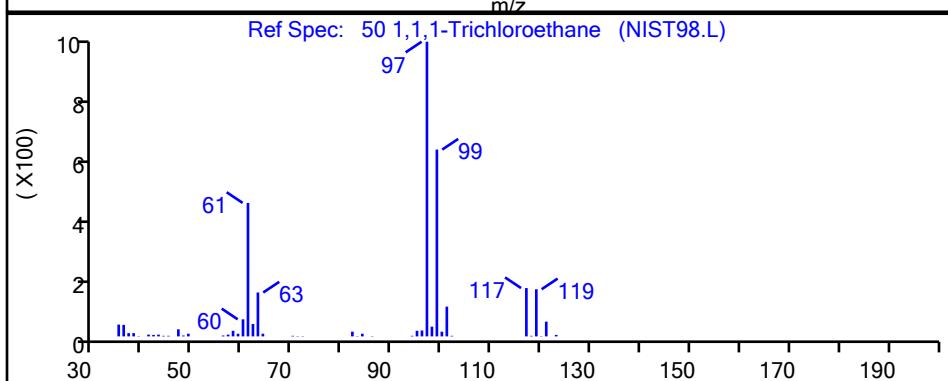
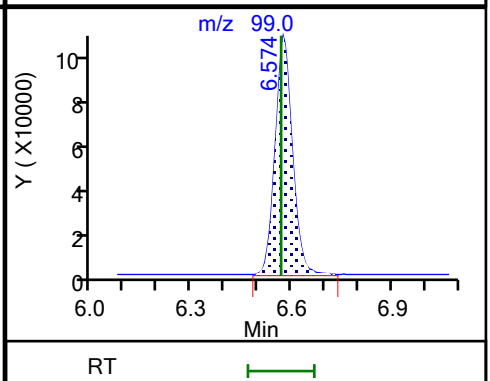
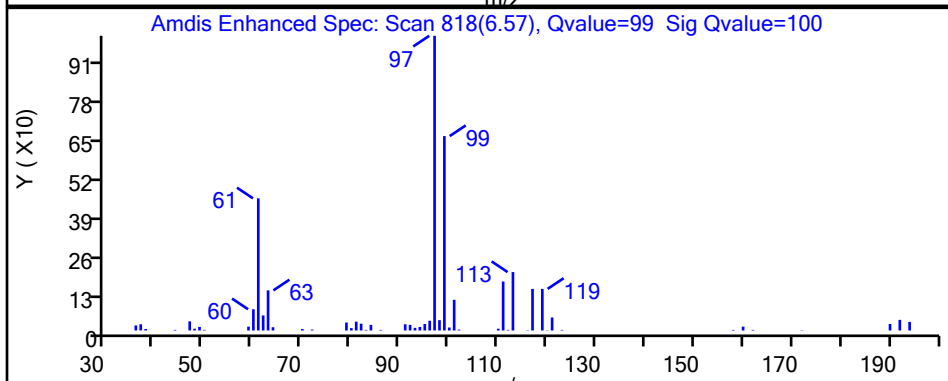
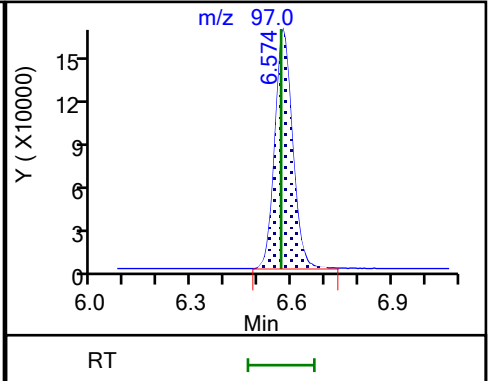
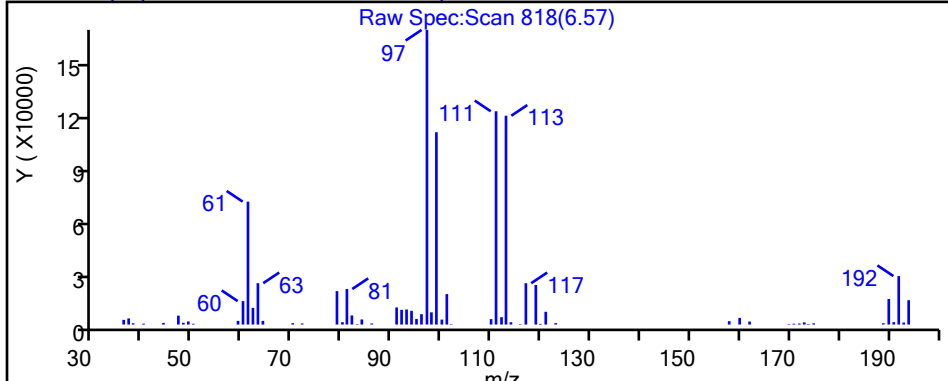
Method: 8260 25ml HP31

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\20230829-92765.b\IG29X29.D

Injection Date: 30-Aug-2023 03:33:30

Instrument ID: 19930

Lims ID: 410-140485-A-13

Lab Sample ID: 410-140485-13

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

Operator ID: gaw91131

ALS Bottle#: 29

Worklist Smp#: 30

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

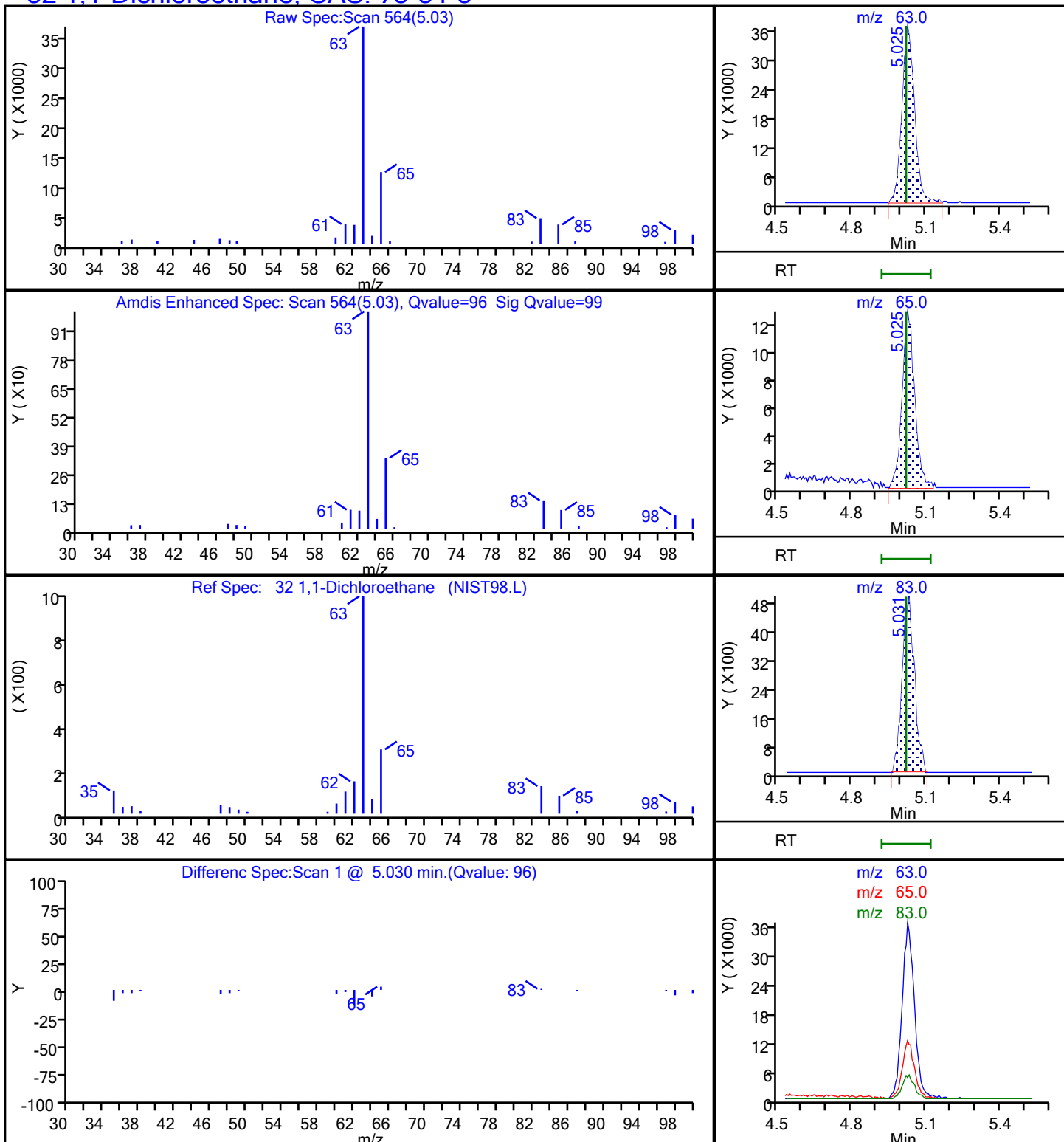
Method: 8260 25ml HP31

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\20230829-92765.b\IG29X29.D

Injection Date: 30-Aug-2023 03:33:30

Instrument ID: 19930

Lims ID: 410-140485-A-13

Lab Sample ID: 410-140485-13

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

Operator ID: gaw91131

ALS Bottle#: 29

Worklist Smp#: 30

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

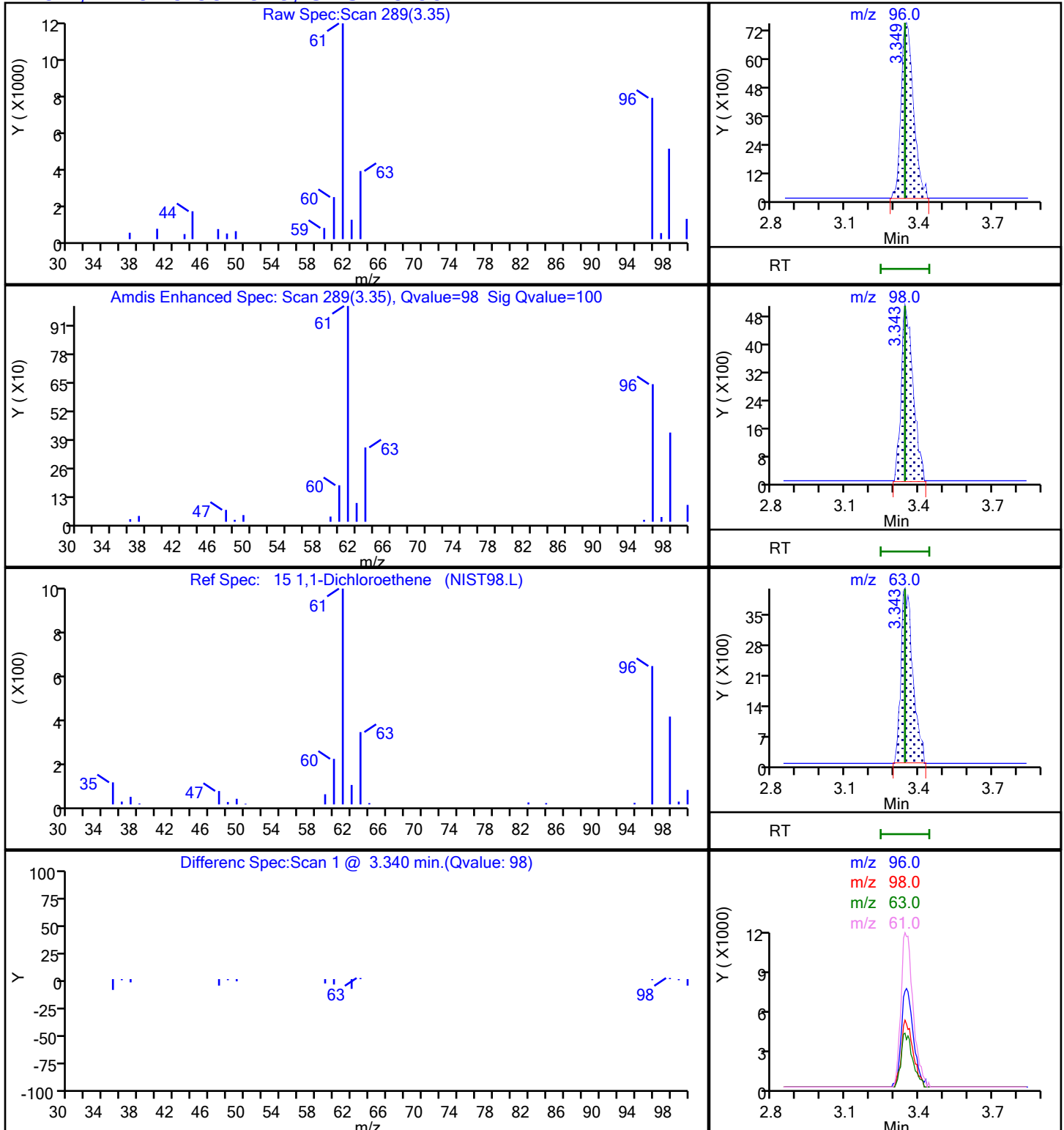
Method: 8260 25ml HP31

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\20230829-92765.b\IG29X29.D

Injection Date: 30-Aug-2023 03:33:30

Instrument ID: 19930

Lims ID: 410-140485-A-13

Lab Sample ID: 410-140485-13

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

Operator ID: gaw91131

ALS Bottle#: 29

Worklist Smp#: 30

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

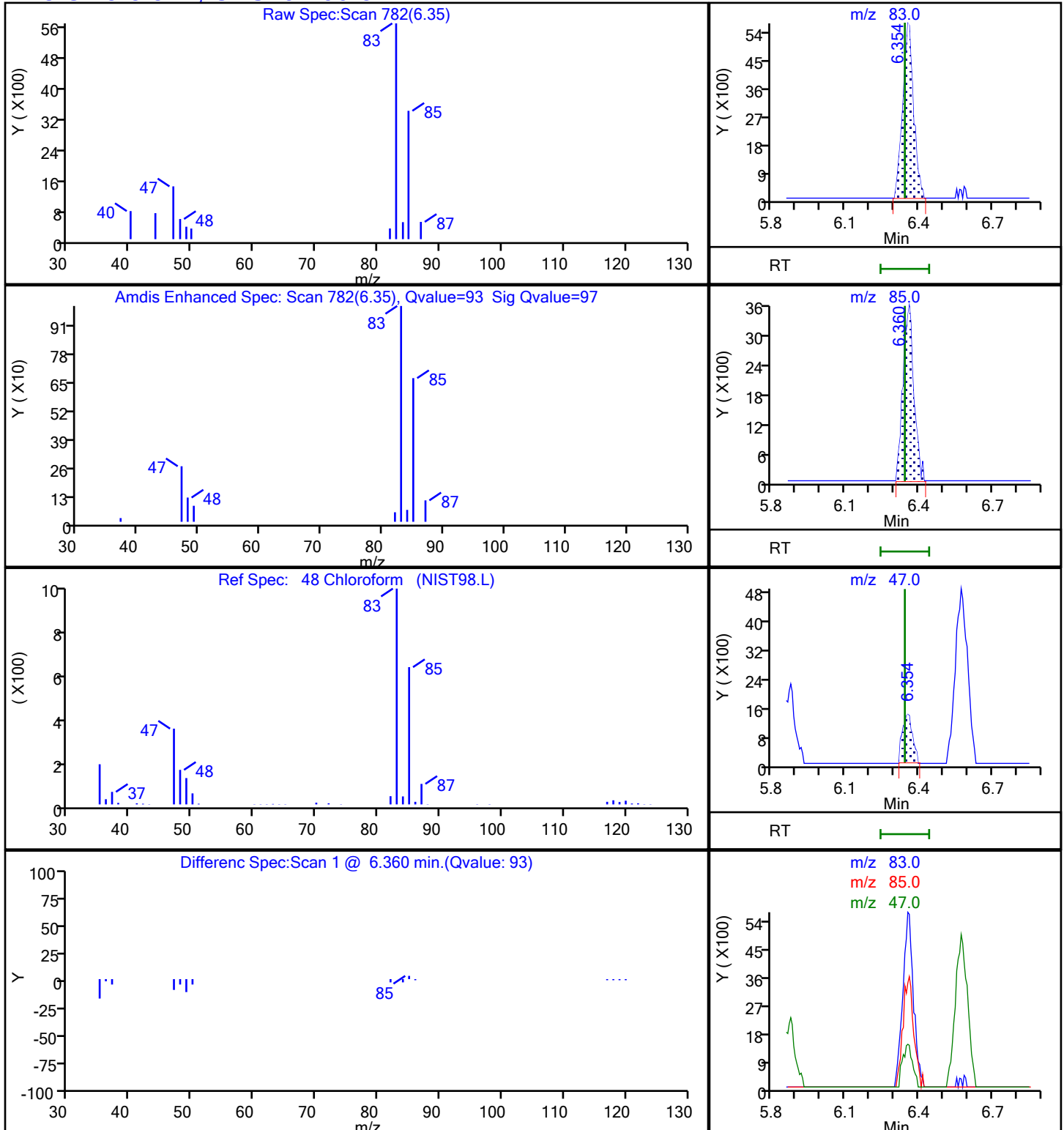
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

### 48 Chloroform, CAS: 67-66-3



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X29.D

Injection Date: 30-Aug-2023 03:33:30

Instrument ID: 19930

Lims ID: 410-140485-A-13

Lab Sample ID: 410-140485-13

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

Operator ID: gaw91131

ALS Bottle#: 29

Worklist Smp#: 30

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

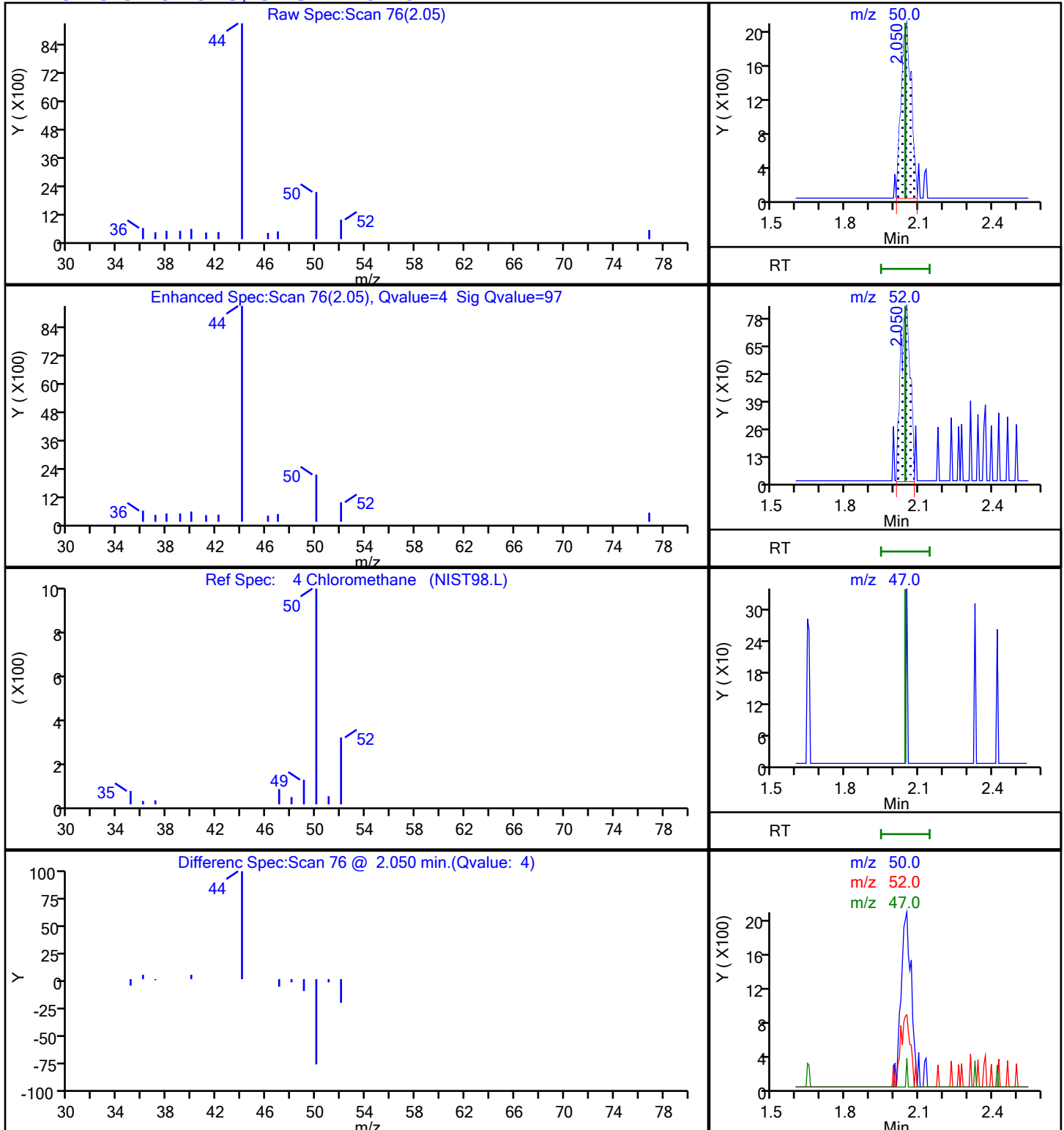
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

4 Chloromethane, CAS: 74-87-3



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X29.D

Injection Date: 30-Aug-2023 03:33:30

Instrument ID: 19930

Lims ID: 410-140485-A-13

Lab Sample ID: 410-140485-13

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

Operator ID: gaw91131

ALS Bottle#: 29

Worklist Smp#: 30

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

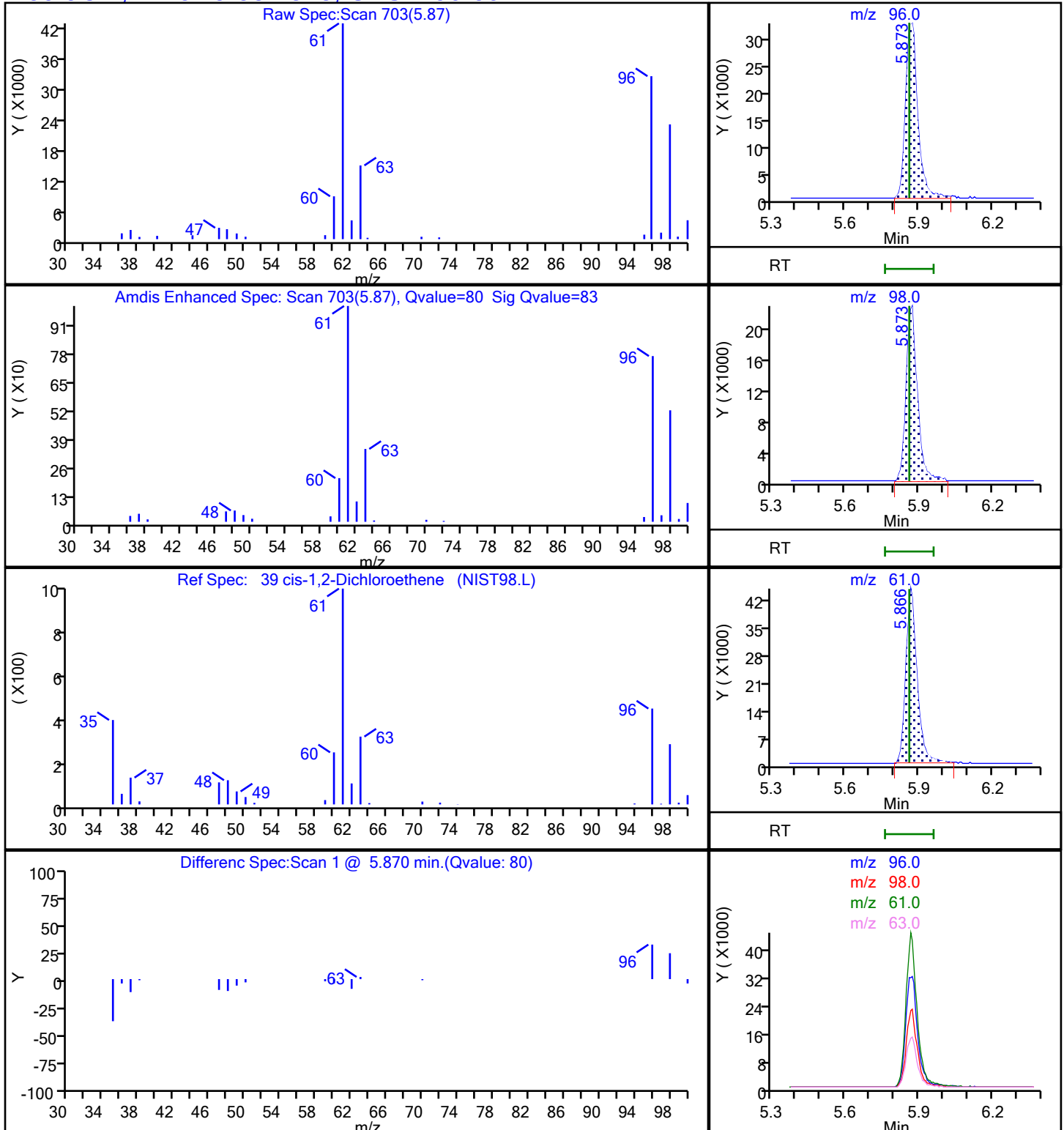
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

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



Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X29.D

Injection Date: 30-Aug-2023 03:33:30

Instrument ID: 19930

Lims ID: 410-140485-A-13

Lab Sample ID: 410-140485-13

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

Operator ID: gaw91131

ALS Bottle#: 29

Worklist Smp#: 30

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

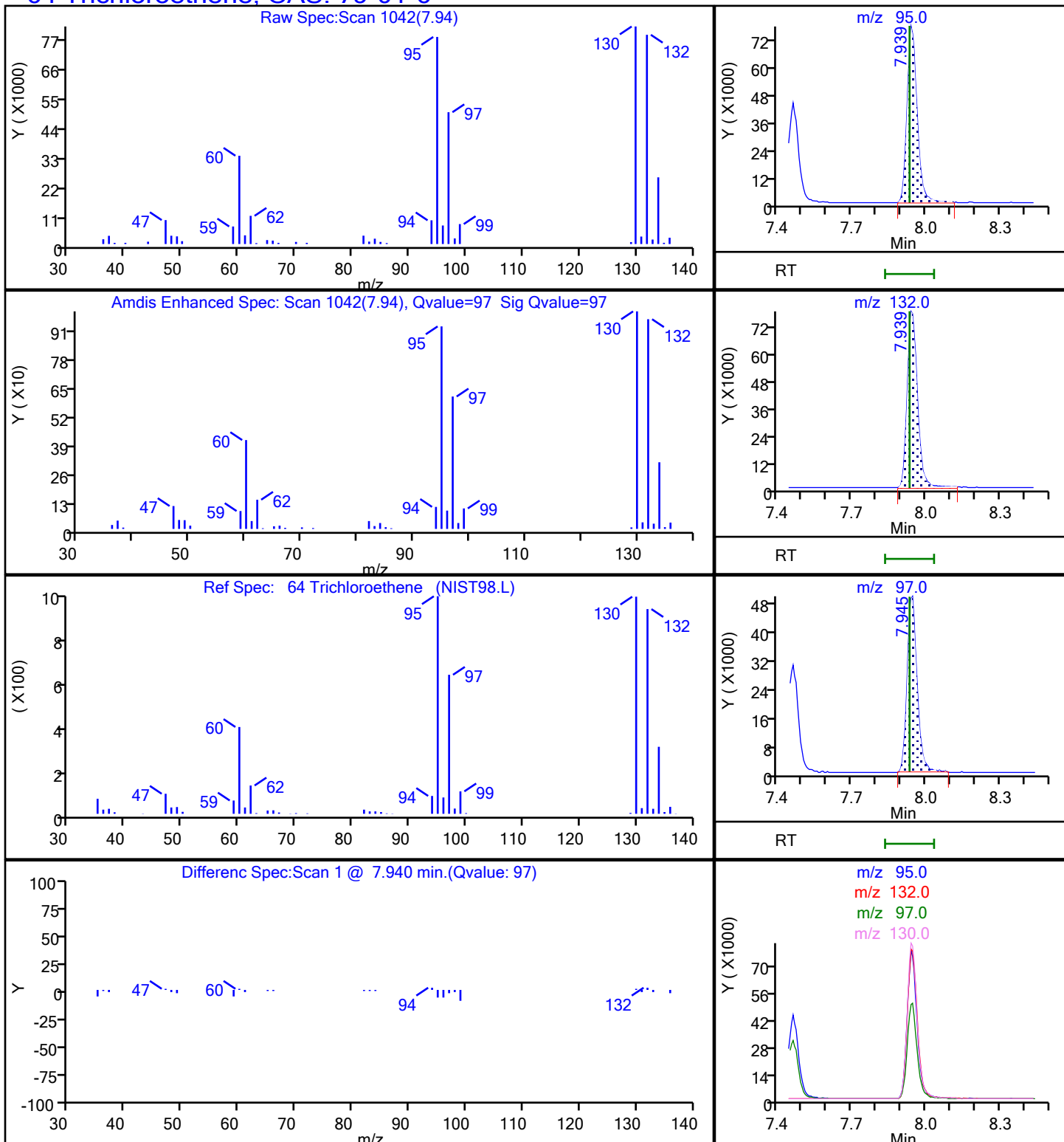
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

### 64 Trichloroethene, CAS: 79-01-6

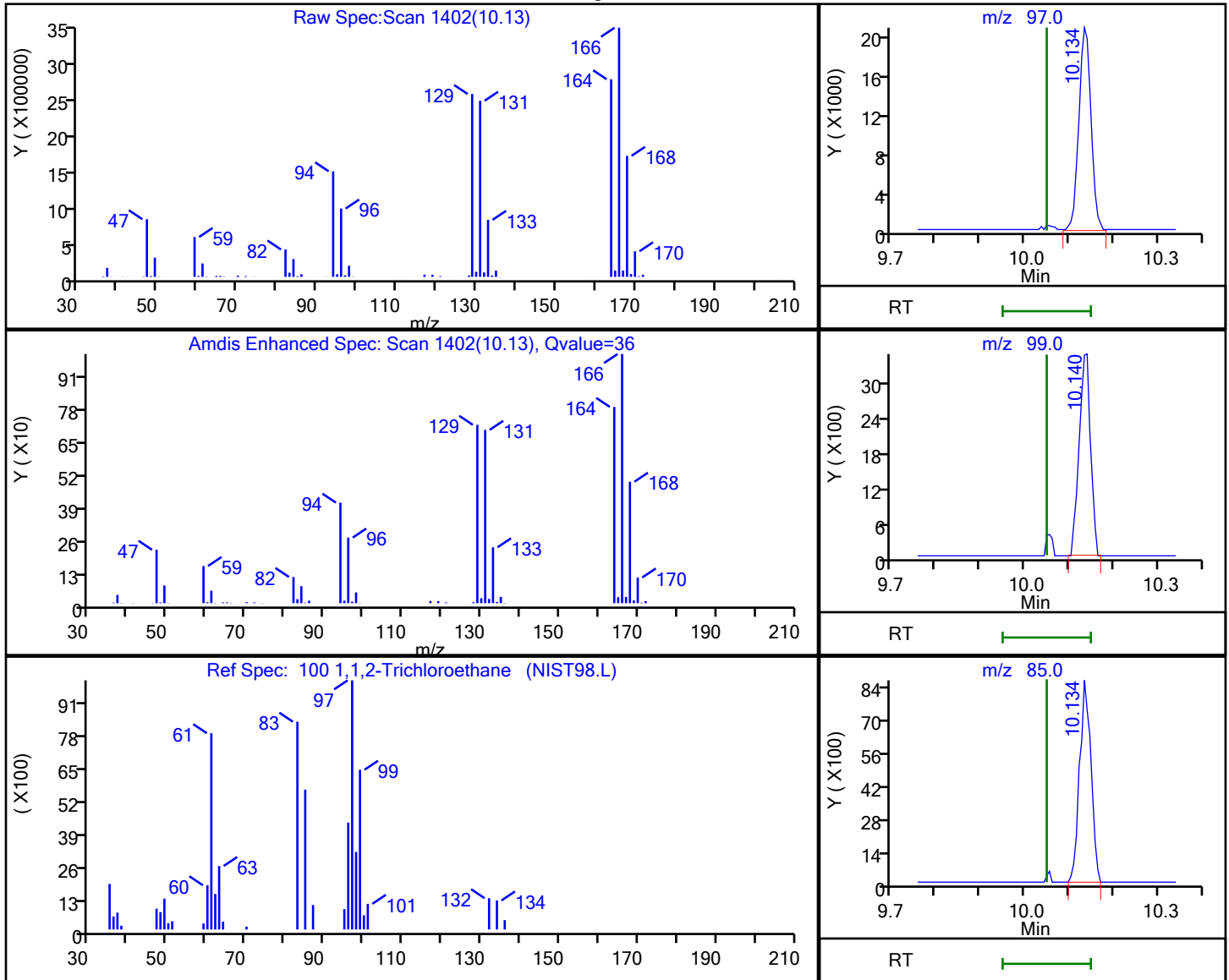


Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X29.D  
 Injection Date: 30-Aug-2023 03:33:30 Instrument ID: 19930  
 Lims ID: 410-140485-A-13 Lab Sample ID: 410-140485-13  
 Client ID: HD-QC1-0/1-1  
 Operator ID: gaw91131 ALS Bottle#: 29 Worklist Smp#: 30  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Method: 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
10.13	97.00	39925	1.207107
10.14	99.00	6235	
10.13	85.00	15571	
10.13	83.00	106666	

Reviewer: kaewrungrueangp, 30-Aug-2023 14:56:40 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

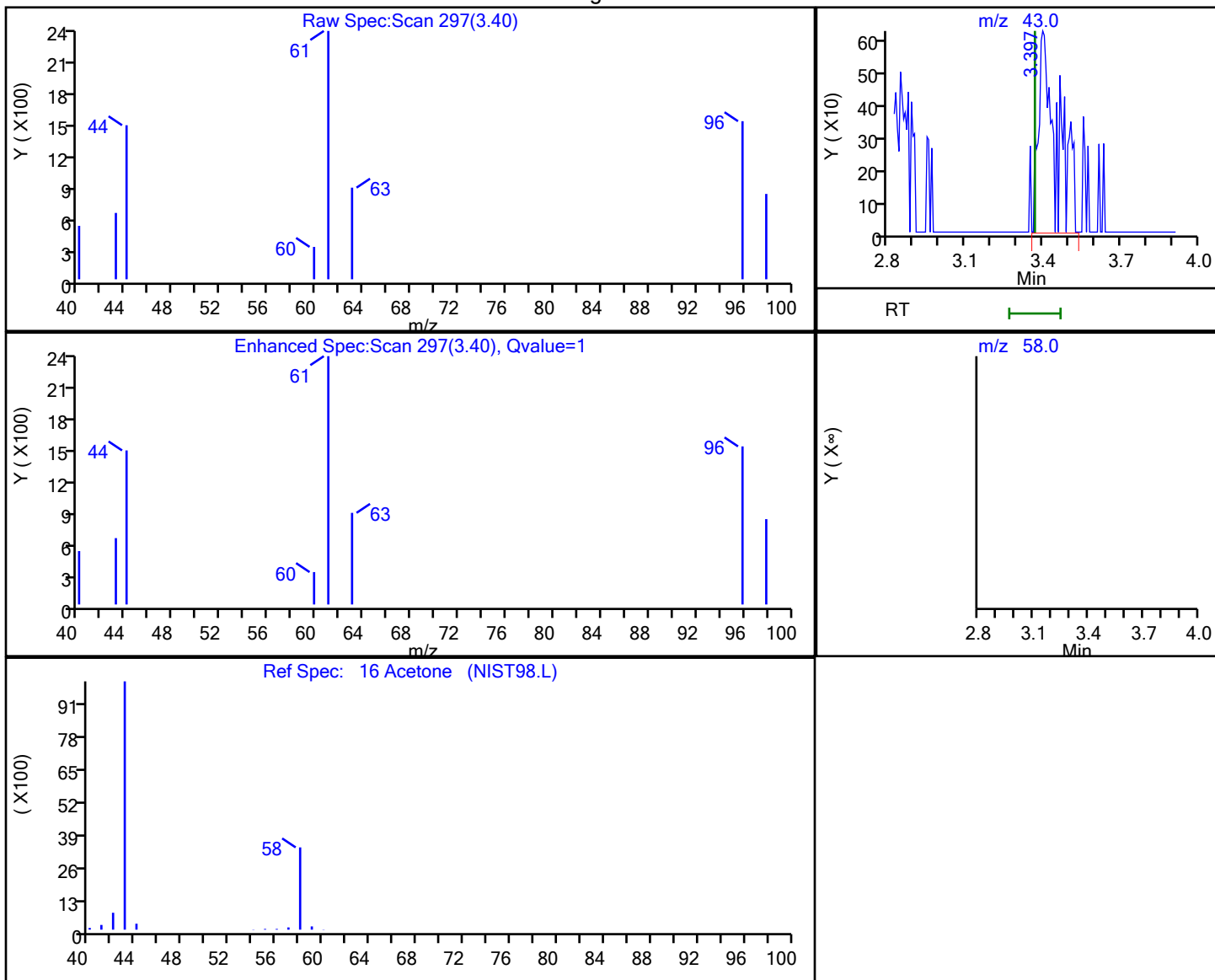
Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfms\Lancaster\ChromData\19930\20230829-92765.b\IG29X29.D  
 Injection Date: 30-Aug-2023 03:33:30 Instrument ID: 19930  
 Lims ID: 410-140485-A-13 Lab Sample ID: 410-140485-13  
 Client ID: HD-QC1-0/1-1  
 Operator ID: gaw91131 ALS Bottle#: 29 Worklist Smp#: 30  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Method: 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
3.40	43.00	3179	0.638845
3.37	58.00	0	

Reviewer: kaewrungrueangp, 30-Aug-2023 14:56:27 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.: 410-140485-1  
 Environment Testing, LLC

SDG No.: \_\_\_\_\_

Client Sample ID: HD-QC1-0/1-1 DL      Lab Sample ID: 410-140485-13 DL

Matrix: Water      Lab File ID: IG29X30.D

Analysis Method: 8260D      Date Collected: 08/24/2023 12:00

Sample wt/vol: 25 (mL)      Date Analyzed: 08/30/2023 03:54

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.: 413930      Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	93		5.0	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	111		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X30.D  
 Lims ID: 410-140485-B-13 DL  
 Client ID: HD-QC1-0/1-1  
 Sample Type: Client  
 Inject. Date: 30-Aug-2023 03:54:30 ALS Bottle#: 30 Worklist Smp#: 31  
 Purge Vol: 25.000 mL Dil. Factor: 10.0000  
 Sample Info: 410-0092765-031  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 15:18:12 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 15:18:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.044				ND	
5 Vinyl chloride	62		2.148				ND	
7 Bromomethane	94		2.471				ND	
8 Chloroethane	64		2.544				ND	
15 1,1-Dichloroethene	96	3.349	3.342	0.007	13	1875	0.0500	
16 Acetone	43		3.367				ND	U
20 Carbon disulfide	76		3.635				ND	
25 Methylene Chloride	84		3.964				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.989	3.964	0.025	25	111610	50.0	
29 Methyl tert-butyl ether	73		4.348				ND	
30 trans-1,2-Dichloroethene	96		4.361				ND	
32 1,1-Dichloroethane	63	5.025	5.019	0.006	95	10967	0.1533	
38 2-Butanone (MEK)	43		5.824				ND	
39 cis-1,2-Dichloroethene	96	5.866	5.860	0.006	80	9196	0.1979	
46 Chlorobromomethane	128		6.196				ND	
48 Chloroform	83		6.342				ND	7
\$ 49 Dibromofluoromethane (Surr)	113	6.568	6.561	0.007	93	397920	11.1	
50 1,1,1-Trichloroethane	97	6.574	6.567	0.007	43	50213	0.7274	
54 Carbon tetrachloride	117		6.787				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.012	0.007	63	76199	10.7	
57 Benzene	78		7.049				ND	
58 1,2-Dichloroethane	62		7.116				ND	
* 61 Fluorobenzene (IS)	96	7.458	7.451	0.007	99	1399414	10.0	
64 Trichloroethene	95	7.951	7.933	0.018	95	17631	0.3835	
66 1,2-Dichloropropane	63		8.262				ND	
71 Dichlorobromomethane	83		8.616				ND	
76 cis-1,3-Dichloropropene	75		9.177				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.353				ND	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.494	0.000	94	1437963	9.91	
79 Toluene	92		9.567				ND	
97 trans-1,3-Dichloropropene	75		9.841				ND	
100 1,1,2-Trichloroethane	97		10.048				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166	10.140	10.134	0.006	99	552553	9.25	
103 2-Hexanone	43		10.262				ND	
105 Chlorodibromomethane	129		10.433				ND	
106 Ethylene Dibromide	107		10.542				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.981	10.981	0.000	86	1129127	10.0	
109 Chlorobenzene	112		11.006				ND	
111 1,1,1,2-Tetrachloroethane	131		11.091				ND	
112 Ethylbenzene	91		11.091				ND	
113 m-Xylene & p-Xylene	106		11.213				ND	
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.542				ND	
115 Styrene	104		11.560				ND	
116 Bromoform	173		11.719				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.993	11.987	0.006	94	499936	9.14	
121 1,1,2,2-Tetrachloroethane	83		12.091				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.877	12.871	0.006	94	640356	10.0	

**QC Flag Legend**

## Processing Flags

7 - Failed Limit of Detection

## Review Flags

U - Marked Undetected

**Reagents:**

MSV\_LLcentISS\_00009

Amount Added: 5.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X30.D

Injection Date: 30-Aug-2023 03:54:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-140485-B-13 DL

Lab Sample ID: 410-140485-13

Worklist Smp#: 31

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

Purge Vol: 25.000 mL

Dil. Factor: 10.0000

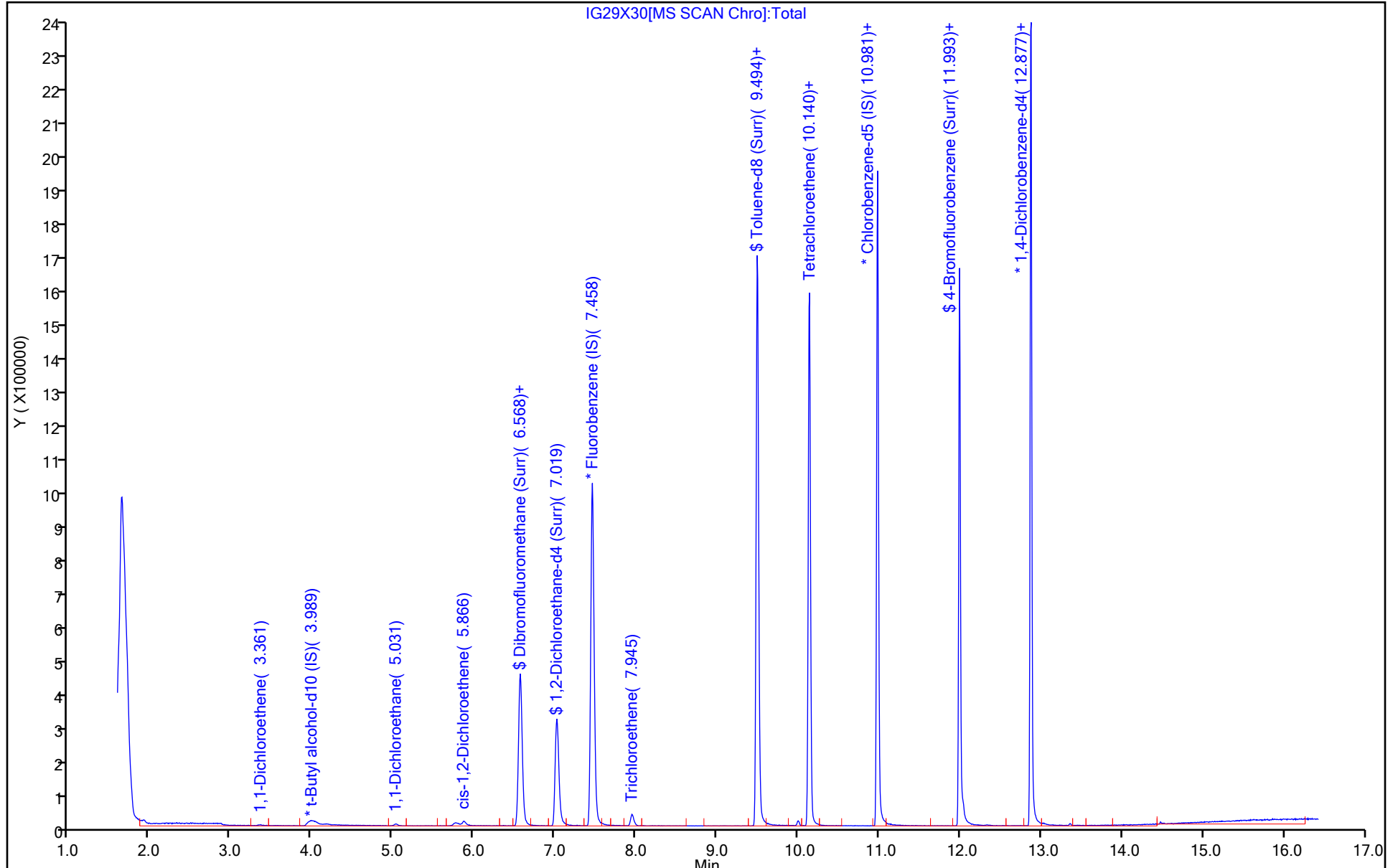
ALS Bottle#: 30

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\20230829-92765.b\IG29X30.D  
 Lims ID: 410-140485-B-13 DL  
 Client ID: HD-QC1-0/1-1  
 Sample Type: Client  
 Inject. Date: 30-Aug-2023 03:54:30 ALS Bottle#: 30 Worklist Smp#: 31  
 Purge Vol: 25.000 mL Dil. Factor: 10.0000  
 Sample Info: 410-0092765-031  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 15:18:12 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp Date: 30-Aug-2023 15:18:12

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	11.1	110.70
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.7	106.91
\$ 78 Toluene-d8 (Surr)	10.0	9.91	99.06
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.14	91.40

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X30.D

Injection Date: 30-Aug-2023 03:54:30

Instrument ID: 19930

Lims ID: 410-140485-B-13 DL

Lab Sample ID: 410-140485-13

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

Operator ID: gaw91131

ALS Bottle#: 30

Worklist Smp#: 31

Purge Vol: 25.000 mL

Dil. Factor: 10.0000

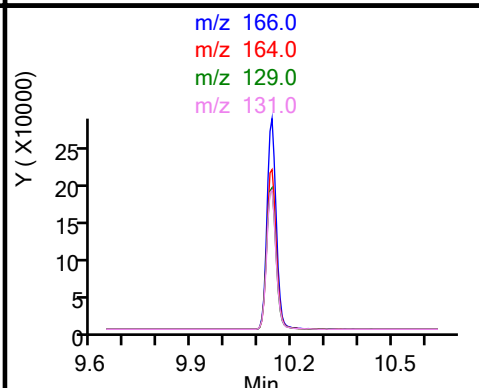
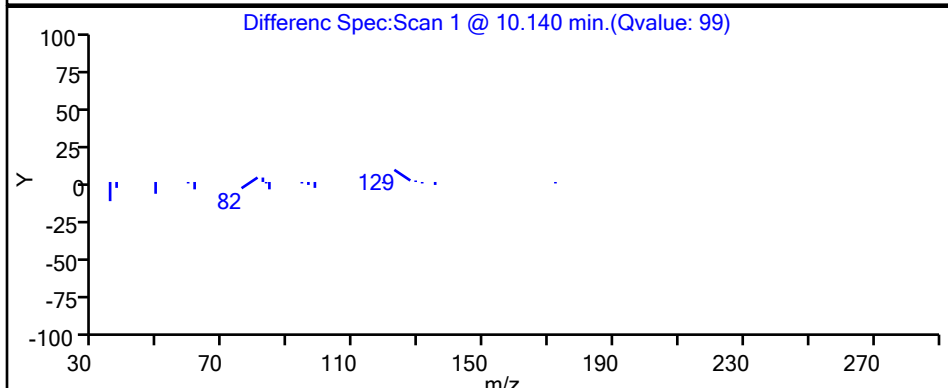
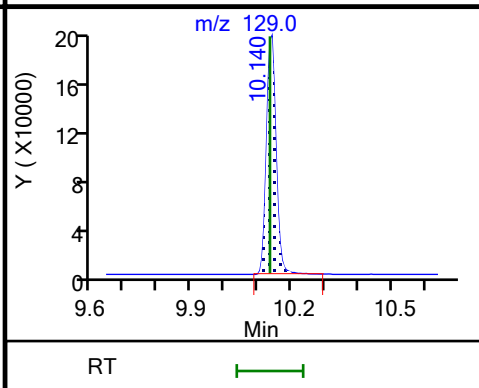
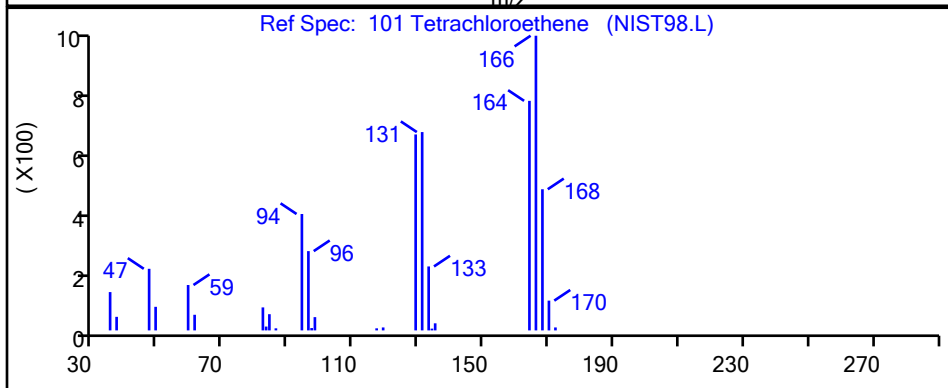
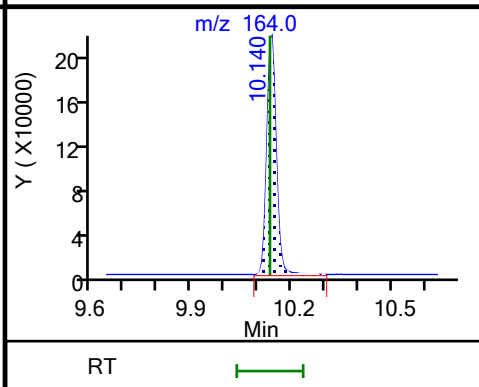
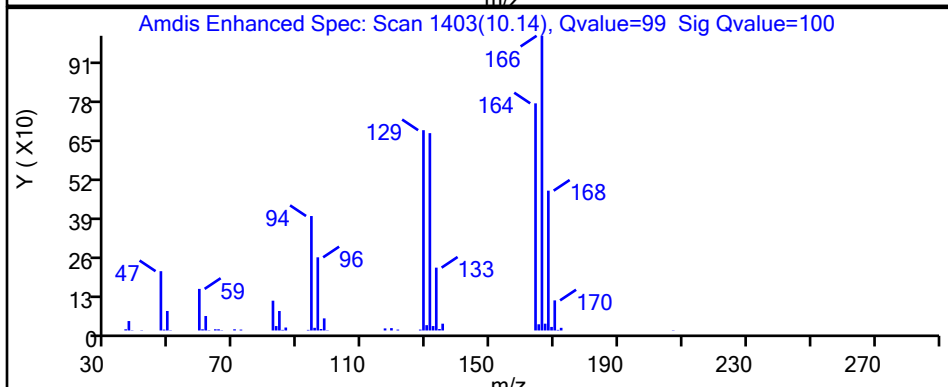
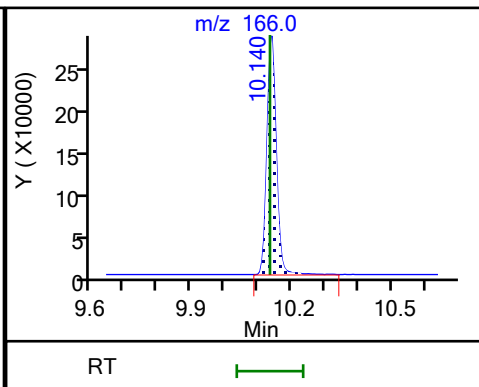
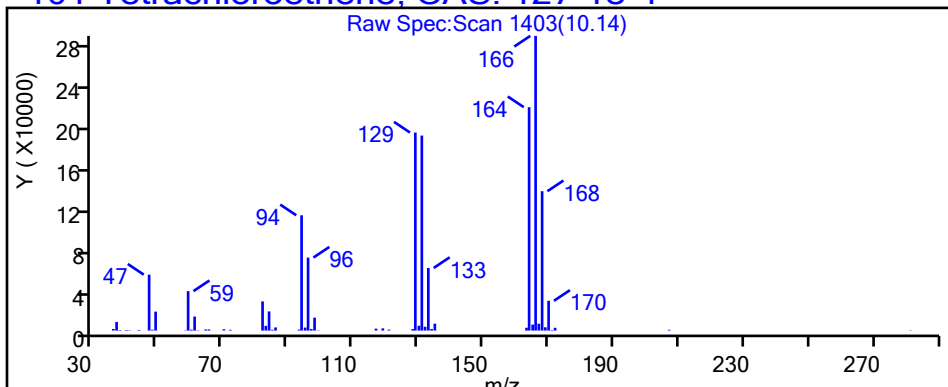
Method: 8260 25ml HP31

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.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-14

Matrix: Water

Lab File ID: IG29X07.D

Analysis Method: 8260D

Date Collected: 08/24/2023 00:00

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 19:51

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.: 413930

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	^c cn	5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.6	J cn	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  
Environment Testing, LLC

Job No.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-14

Matrix: Water

Lab File ID: IG29X07.D

Analysis Method: 8260D

Date Collected: 08/24/2023 00:00

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 19:51

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.: 413930

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)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120



Eurofins Lancaster Laboratories Environment Testing, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X07.D  
 Lims ID: 410-140485-A-14  
 Client ID: HD-QC1-0/1-2  
 Sample Type: Client  
 Inject. Date: 29-Aug-2023 19:51:30 ALS Bottle#: 7 Worklist Smp#: 8  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-008  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:12:07 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp

Date: 30-Aug-2023 14:12:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.032	2.044	-0.012	1	3544	0.0608	
5 Vinyl chloride	62		2.148				ND	
7 Bromomethane	94		2.471				ND	
8 Chloroethane	64		2.544				ND	
15 1,1-Dichloroethene	96		3.342				ND	
16 Acetone	43	3.391	3.367	0.024	64	13344	2.60	
20 Carbon disulfide	76		3.635				ND	7
25 Methylene Chloride	84	3.977	3.964	0.013	48	4294	0.1059	
* 26 t-Butyl alcohol-d10 (IS)	65	3.989	3.964	0.025	40	107389	50.0	
29 Methyl tert-butyl ether	73		4.348				ND	
30 trans-1,2-Dichloroethene	96		4.361				ND	
32 1,1-Dichloroethane	63		5.019				ND	
38 2-Butanone (MEK)	43		5.824				ND	U
39 cis-1,2-Dichloroethene	96		5.860				ND	
46 Chlorobromomethane	128		6.196				ND	
48 Chloroform	83	6.348	6.342	0.006	90	4284	0.0566	
\$ 49 Dibromofluoromethane (Surr)	113	6.568	6.561	0.007	94	397333	10.8	
50 1,1,1-Trichloroethane	97		6.567				ND	
54 Carbon tetrachloride	117		6.787				ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.012	0.007	63	78093	10.7	
57 Benzene	78		7.049				ND	
58 1,2-Dichloroethane	62		7.116				ND	
* 61 Fluorobenzene (IS)	96	7.458	7.451	0.007	99	1431799	10.0	
64 Trichloroethene	95		7.933				ND	
66 1,2-Dichloropropane	63		8.262				ND	
71 Dichlorobromomethane	83		8.616				ND	
76 cis-1,3-Dichloropropene	75		9.177				ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.353				ND	7
\$ 78 Toluene-d8 (Surr)	98	9.494	9.494	0.000	94	1432954	9.87	
79 Toluene	92		9.567				ND	7
97 trans-1,3-Dichloropropene	75		9.841				ND	
100 1,1,2-Trichloroethane	97		10.048				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
101 Tetrachloroethene	166		10.134				ND	
103 2-Hexanone	43		10.262				ND	U
105 Chlorodibromomethane	129		10.433				ND	
106 Ethylene Dibromide	107		10.542				ND	
* 107 Chlorobenzene-d5 (IS)	117	10.981	10.981	0.000	86	1129776	10.0	
109 Chlorobenzene	112		11.006				ND	
111 1,1,1,2-Tetrachloroethane	131		11.091				ND	
112 Ethylbenzene	91		11.091				ND	
113 m-Xylene & p-Xylene	106		11.213				ND	7
S 110 Xylenes, Total	106		11.245				ND	7
114 o-Xylene	106		11.542				ND	
115 Styrene	104		11.560				ND	
116 Bromoform	173		11.719				ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.993	11.987	0.006	94	512985	9.37	
121 1,1,2,2-Tetrachloroethane	83		12.091				ND	
* 135 1,4-Dichlorobenzene-d4	152	12.877	12.871	0.006	94	640726	10.0	

**QC Flag Legend**

## Processing Flags

7 - Failed Limit of Detection

## Review Flags

U - Marked Undetected

**Reagents:**

MSV\_LLcentISS\_00009

Amount Added: 5.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X07.D

Injection Date: 29-Aug-2023 19:51:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-140485-A-14

Lab Sample ID: 410-140485-14

Worklist Smp#: 8

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

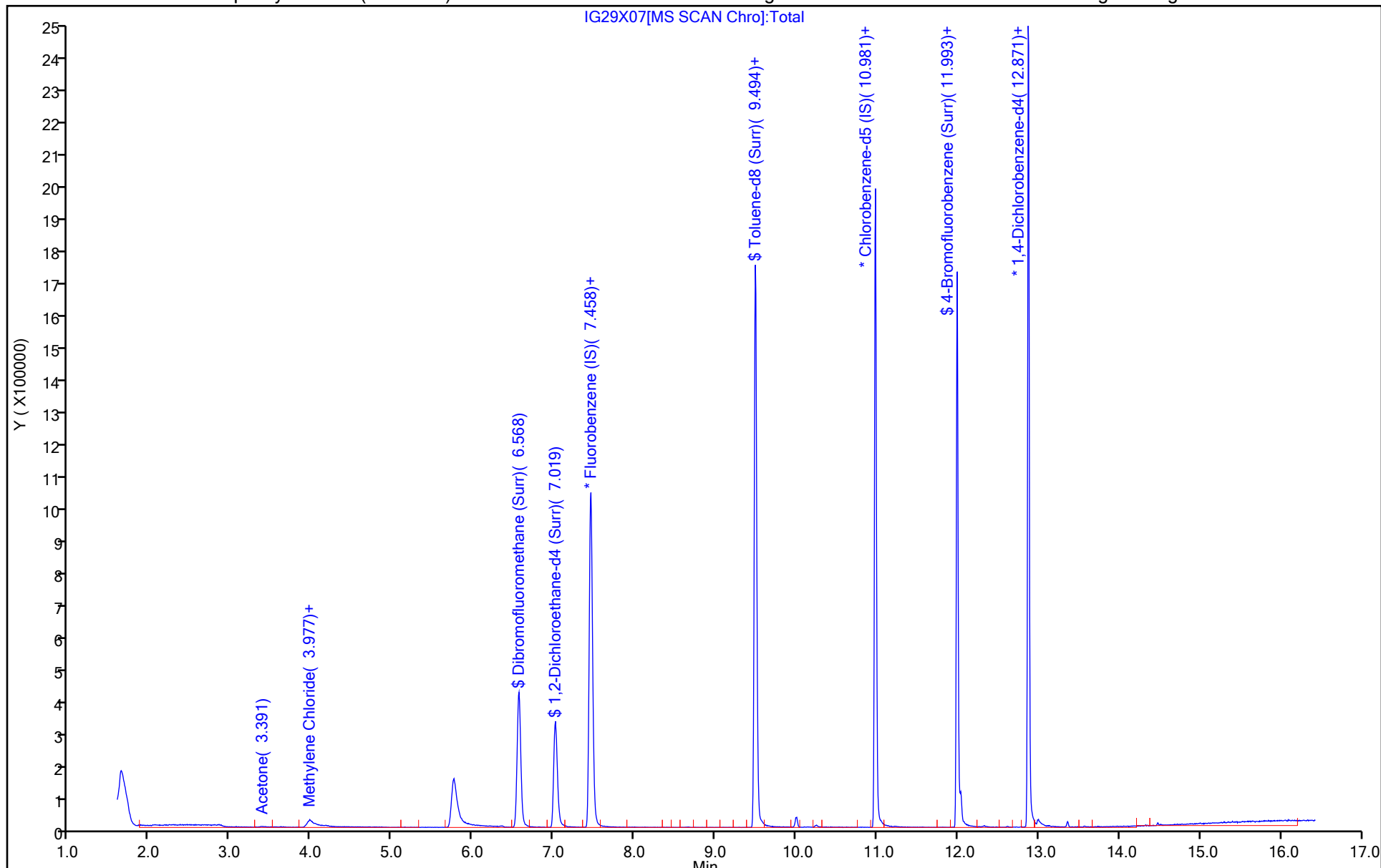
ALS Bottle#: 7

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\20230829-92765.b\IG29X07.D  
 Lims ID: 410-140485-A-14  
 Client ID: HD-QC1-0/1-2  
 Sample Type: Client  
 Inject. Date: 29-Aug-2023 19:51:30 ALS Bottle#: 7 Worklist Smp#: 8  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-008  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:12:07 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp

Date: 30-Aug-2023 14:12:07

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	10.8	108.04
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.7	107.09
\$ 78 Toluene-d8 (Surr)	10.0	9.87	98.65
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.37	93.73

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X07.D

Injection Date: 29-Aug-2023 19:51:30

Instrument ID: 19930

Lims ID: 410-140485-A-14

Lab Sample ID: 410-140485-14

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

Operator ID: gaw91131

ALS Bottle#: 7

Worklist Smp#: 8

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

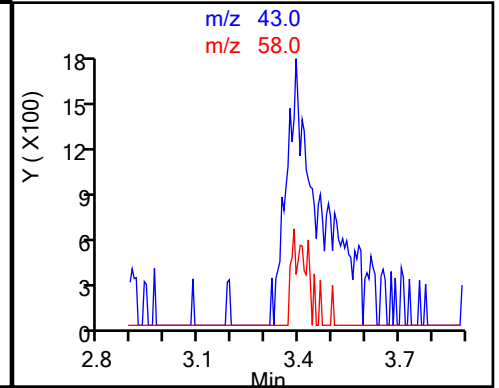
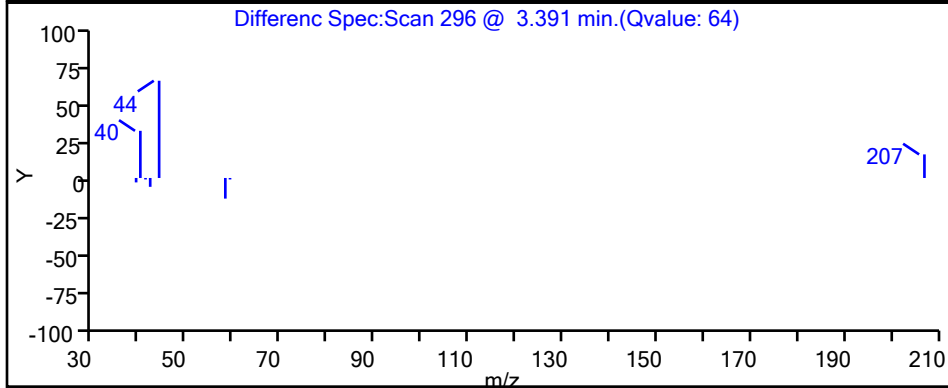
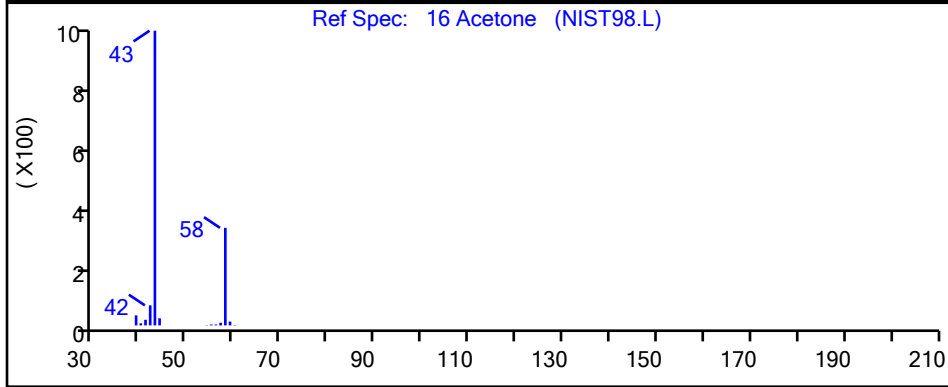
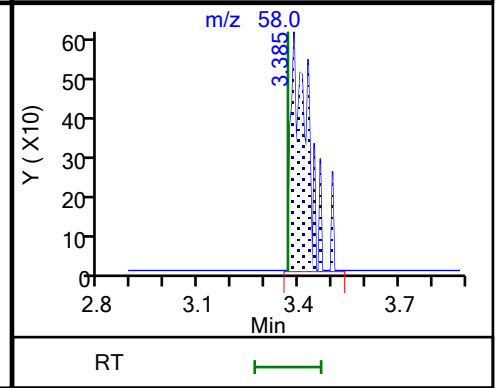
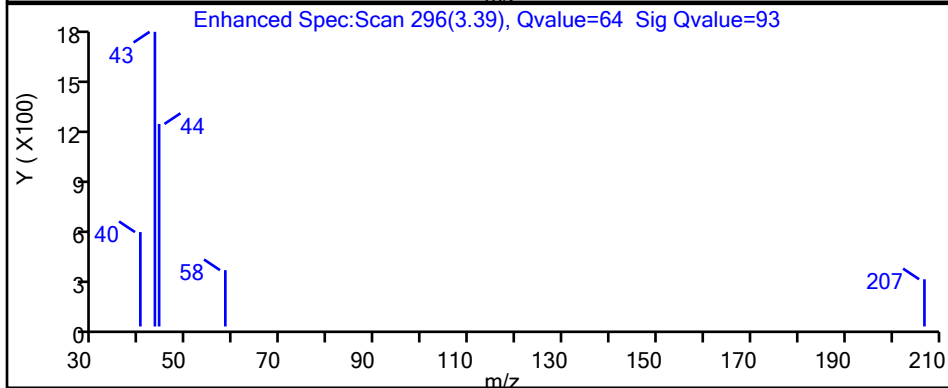
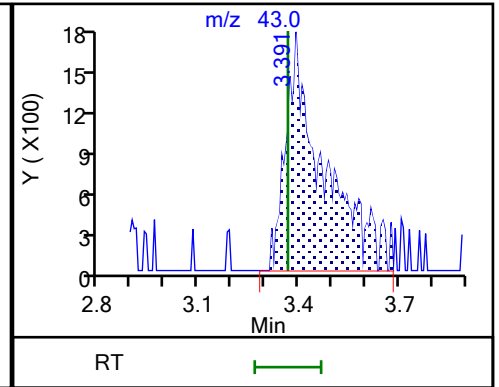
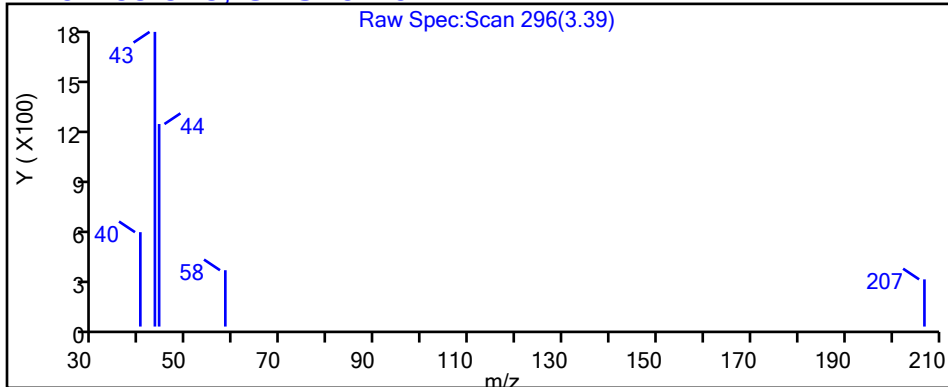
Method: 8260 25ml HP31

Limit Group: MSV - 8260C\_D

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

MS Quad

16 Acetone, CAS: 67-64-1

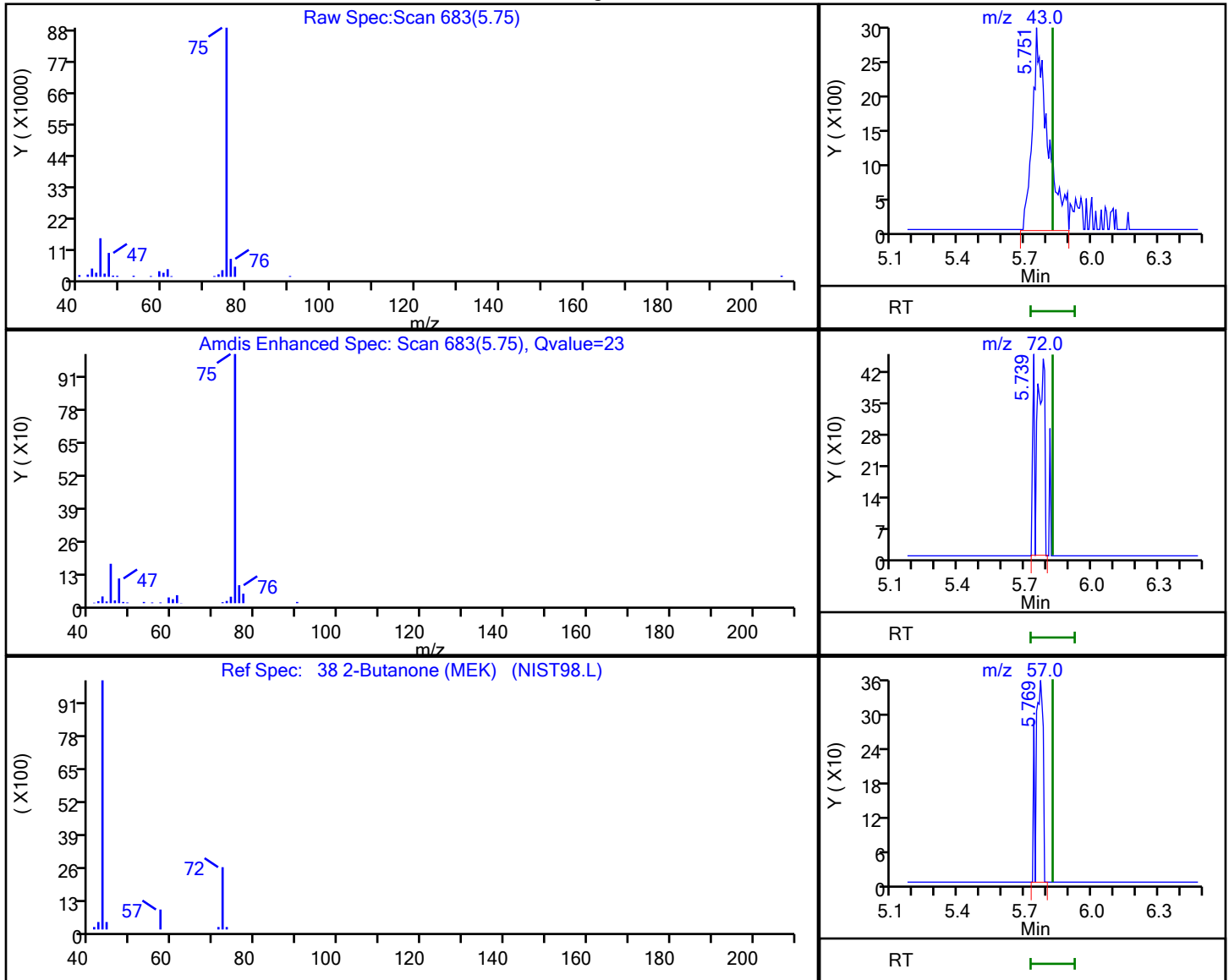


Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X07.D  
 Injection Date: 29-Aug-2023 19:51:30 Instrument ID: 19930  
 Lims ID: 410-140485-A-14 Lab Sample ID: 410-140485-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: gaw91131 ALS Bottle#: 7 Worklist Smp#: 8  
 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

**38 2-Butanone (MEK), CAS: 78-93-3**

Processing Results



RT	Mass	Response	Amount
5.75	43.00	14114	1.426061
5.74	72.00	1217	
5.77	57.00	789	

Reviewer: kaewrungrueangp, 30-Aug-2023 14:11:53 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

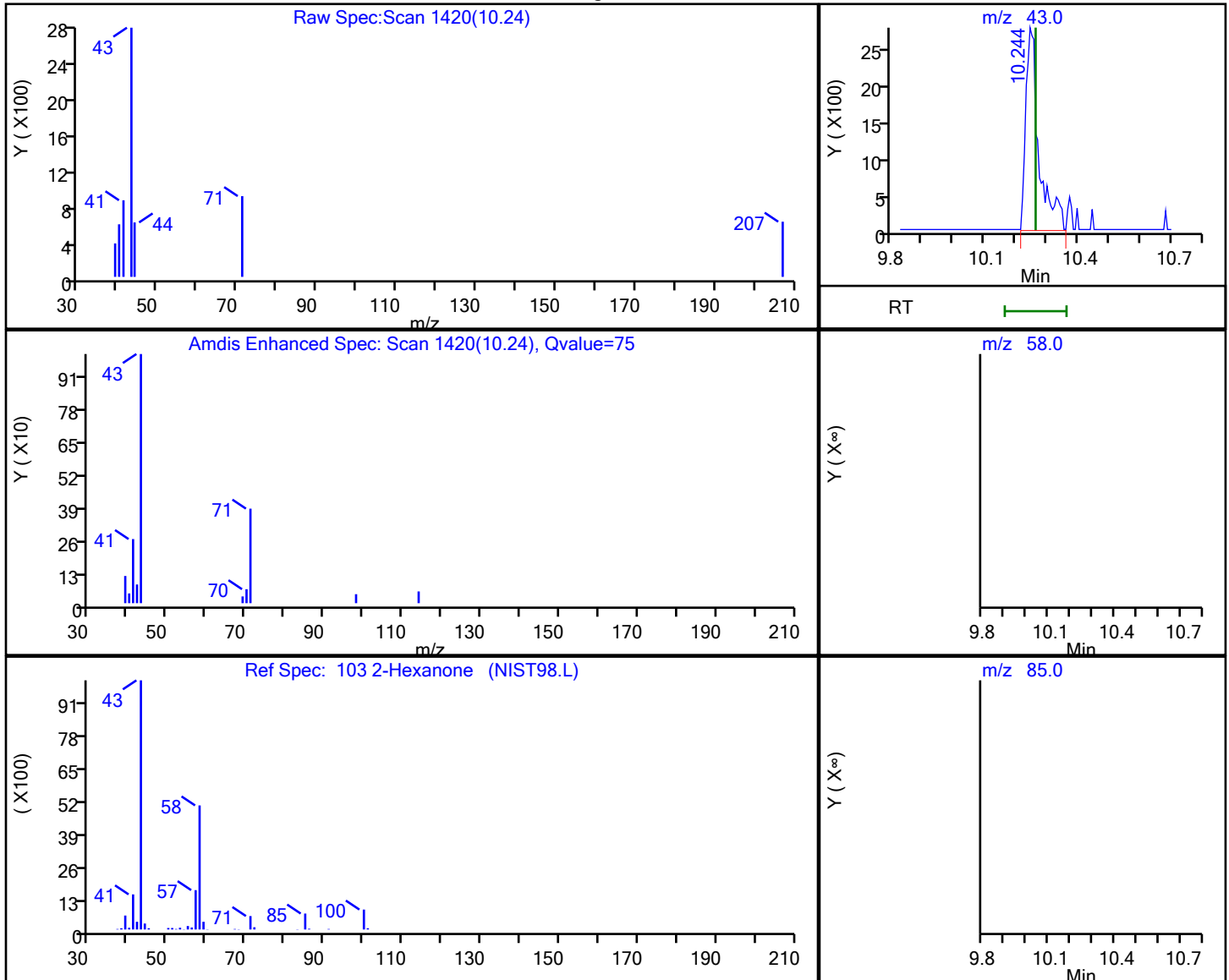
Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X07.D  
 Injection Date: 29-Aug-2023 19:51:30 Instrument ID: 19930  
 Lims ID: 410-140485-A-14 Lab Sample ID: 410-140485-14  
 Client ID: HD-QC1-0/1-2  
 Operator ID: gaw91131 ALS Bottle#: 7 Worklist Smp#: 8  
 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

103 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
10.24	43.00	8084	0.430167
10.26	58.00	0	
10.26	85.00	0	
10.26	100.00	0	

Reviewer: kaewrungrueangp, 30-Aug-2023 14:12:02 07:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

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

Lab Name: Eurofins Lancaster Laboratories      Job No.: 410-140485-1      Analy Batch No.: 388102  
 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: 06/19/2023 18:19      Calibration End Date: 06/19/2023 20:25      Calibration ID: 51353

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-388102/13	IU19X12.D
Level 2	IC 410-388102/14	IU19X13.D
Level 3	IC 410-388102/15	IU19X14.D
Level 4	IC 410-388102/16	IU19X15.D
Level 5	IC 410-388102/17	IU19X16.D
Level 6	ICIS 410-388102/18	IU19X17.D
Level 7	IC 410-388102/19	IU19X18.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Dichlorodifluoromethane	0.4525 0.4048	0.3959 0.3520	0.3851	0.4247	0.3877	Ave	0.400 4			0.1000	7.9		20.0				
Chloromethane	0.4433 0.3934	0.4368 0.3705	0.4085	0.4123	0.3826	Ave	0.406 8			0.1000	6.6		20.0				
Vinyl chloride	0.4128 0.3849	0.3972 0.3663	0.3909	0.4002	0.3721	Ave	0.389 2			0.1000	4.2		20.0				
1,3-Butadiene	0.5664 0.3662	0.4570 0.3293	0.3964	0.3854	0.3500	Ave	0.407 3				19.9		20.0				
Bromomethane	0.3286 0.2931	0.3338 0.2760	0.3073	0.3027	0.2852	Ave	0.303 8			0.1000	7.1		20.0				
Chloroethane	0.2544 0.2262	0.2542 0.2118	0.2302	0.2332	0.2201	Ave	0.232 9			0.1000	7.0		20.0				
Dichlorofluoromethane	0.7728 0.6099	0.7173 0.5755	0.6529	0.6302	0.5908	Ave	0.649 9			0.1000	11.0		20.0				
Trichlorofluoromethane	0.5073 0.5153	0.4966 0.4601	0.4861	0.5148	0.4884	Ave	0.495 5			0.1000	3.9		20.0				
Ethyl ether	0.1976 0.2098	0.2136 0.2002	0.2097	0.1996	0.2014	Ave	0.204 6				3.1		20.0				
Freon 123a	0.4218 0.3420	0.3693 0.3196	0.3401	0.3494	0.3315	Ave	0.353 4				9.6		20.0				
Acrolein	2.1302 2.2533	2.1540 2.1214	2.1475	2.2512	2.0978	Ave	2.165 0				2.9		20.0				
1,1-Dichloroethene	0.2869 0.2721	0.2788 0.2625	0.2395	0.2657	0.2718	Ave	0.268 2			0.1000	5.6		20.0				
Acetone	++++ 2.2593	2.6577 2.0209	2.6463	2.4301	2.3347	Ave	2.391 5			0.1000	10.2		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  
Environment Testing, LLC

Job No.: 410-140485-1

Analy Batch No.: 388102

SDG No.:

Instrument ID: 19930

GC Column: R-624SilMS 3 ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2023 18:19

Calibration End Date: 06/19/2023 20:25

Calibration ID: 51353

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	0.2638 0.3056	0.2848 0.2883	0.2543	0.2884	0.3074	Ave		0.284 7		0.1000	6.9		20.0				
Methyl iodide	0.5402 0.5790	0.5821 0.5553	0.5396	0.5761	0.5753	Ave		0.564 n			3.3		20.0				
Carbon disulfide	0.7149 0.7487	0.7545 0.7334	0.6654	0.7357	0.7381	Ave		0.727 3		0.1000	4.1		20.0				
Methyl acetate	5.4358 6.3319	6.2063 6.0419	5.3978	5.8772	6.0227	Ave		5.901 9		0.1000	6.1		20.0				
Allyl chloride	0.4626 0.4175	0.4280 0.4051	0.3811	0.4125	0.4110	Ave		0.416 8			5.9		20.0				
Methylene Chloride	0.2864 0.2867	0.3045 0.2734	0.2669	0.2808	0.2833	Ave		0.283 1		0.1000	4.2		20.0				
t-Butyl alcohol	1.0041 0.8013	1.0479 0.8236	0.9841	0.9770	1.0217	Ave		0.951 4			10.3		20.0				
Acrylonitrile	1.6935 3.2995	2.9982 3.1295	2.6051	3.3404	3.2807	Ave		2.906 7			20.4	*	20.0				
Methyl tert-butyl ether	0.7141 0.7350	0.7731 0.7210	0.7422	0.7418	0.7249	Ave		0.736 n		0.1000	2.6		20.0				
trans-1,2-Dichloroethene	0.2943 0.3042	0.3166 0.2930	0.2773	0.3034	0.3005	Ave		0.298 5		0.1000	4.1		20.0				
n-Hexane	0.4302 0.4138	0.3781 0.3892	0.3457	0.3839	0.3976	Ave		0.391 2			6.9		20.0				
1,1-Dichloroethane	0.4683 0.5297	0.5304 0.5105	0.4963	0.5217	0.5225	Ave		0.511 3		0.2000	4.4		20.0				
di-Isopropyl ether	0.7966 0.8513	0.8881 0.8227	0.8263	0.8469	0.8460	Ave		0.839 7			3.4		20.0				
2-Chloro-1,3-butadiene	0.4161 0.4460	0.4352 0.4278	0.3940	0.4360	0.4378	Ave		0.427 6			4.1		20.0				
Ethyl t-butyl ether	0.7685 0.8160	0.8385 0.7839	0.7901	0.8148	0.8023	Ave		0.802 n			2.9		20.0				
2-Butanone (MEK)	5.1322 4.6373	4.4498 4.3181	4.5676	4.7743	4.3775	Ave		4.608 1		0.1000	6.1		20.0				
cis-1,2-Dichloroethene	0.3215 0.3358	0.3567 0.3265	0.3175	0.3363	0.3302	Ave		0.332 1		0.1000	3.9		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  
Environment Testing, LLC

Job No.: 410-140485-1

Analy Batch No.: 388102

SDG No.:

Instrument ID: 19930

GC Column: R-624SilMS 3 ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2023 18:19

Calibration End Date: 06/19/2023 20:25

Calibration ID: 51353

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2,2-Dichloropropane	0.4598 0.4721	0.4783 0.4555	0.4215	0.4701	0.4682	Ave		0.460 8			4.1		20.0				
Propionitrile	1.0481 1.3118	1.1977 1.2176	1.2436	1.3500	1.1627	Ave		1.218 8			8.2		20.0				
Methacrylonitrile	4.5635 4.9890	4.7918 4.7422	4.8210	5.0216	4.7357	Ave		4.809 3			3.3		20.0				
Bromochloromethane	0.1420 0.1540	0.1616 0.1468	0.1504	0.1524	0.1502	Ave		0.151 1			4.0		20.0				
Tetrahydrofuran	1.5911 1.5342	1.6331 1.3936	1.5046	1.5387	1.4196	Ave		1.516 4			5.7		20.0				
Chloroform	0.5098 0.5383	0.5474 0.5159	0.5102	0.5410	0.5348	Ave		0.528 2		0.2000	3.0		20.0				
1,1,1-Trichloroethane	0.4856 0.5059	0.5086 0.4904	0.4532	0.5014	0.5077	Ave		0.493 3		0.1000	4.0		20.0				
Cyclohexane	0.4612 0.4971	0.4664 0.4719	0.4112	0.4696	0.4947	Ave		0.467 4		0.1000	6.1		20.0				
Carbon tetrachloride	0.4069 0.4690	0.4383 0.4552	0.3987	0.4478	0.4602	Ave		0.439 4		0.1000	6.1		20.0				
1,1-Dichloropropene	0.3797 0.4086	0.4051 0.3980	0.3554	0.3980	0.4043	Ave		0.392 7			4.8		20.0				
Isobutyl alcohol	0.4092 0.3121	0.3748 0.2863	0.3625	0.3029	0.3179	Ave		0.338 0			13.2		20.0				
Benzene	1.1324 1.2126	1.2208 1.1743	1.1293	1.2019	1.1941	Ave		1.180 8		0.5000	3.1		20.0				
1,2-Dichloroethane	0.3147 0.3261	0.3339 0.3094	0.3162	0.3176	0.3229	Ave		0.320 1		0.1000	2.6		20.0				
t-Amyl methyl ether	0.6994 0.7606	0.7858 0.7275	0.7344	0.7445	0.7370	Ave		0.741 3			3.6		20.0				
n-Heptane	0.4195 0.3999	0.3518 0.3803	0.3281	0.3627	0.3874	Ave		0.375 7			8.2		20.0				
n-Butanol	++++ 0.2896	0.2186 0.2709	0.2443	0.2525	0.2816	Ave		0.259 6			10.2		20.0				
Trichloroethene	0.3086 0.3402	0.3473 0.3305	0.3074	0.3325	0.3331	Ave		0.328 5		0.2000	4.6		20.0				

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

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

Lab Name: Eurofins Lancaster Laboratories  
Environment Testing, LLC

Job No.: 410-140485-1

Analy Batch No.: 388102

SDG No.:

Instrument ID: 19930

GC Column: R-624SilMS 3 ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2023 18:19

Calibration End Date: 06/19/2023 20:25

Calibration ID: 51353

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methylcyclohexane	0.4972 0.5734	0.5243 0.5419	0.4769	0.5366	0.5642	Ave		0.530 6		0.1000	6.5		20.0				
1,2-Dichloropropane	0.2673 0.3012	0.3075 0.2928	0.2835	0.2949	0.2965	Ave		0.291 9		0.1000	4.5		20.0				
Methyl methacrylate	7.4884 10.561	8.8196 10.309	9.6140	9.6930	9.8628	Ave		9.478 3			11.0		20.0				
1,4-Dioxane	++++ 0.0609	++++ 0.0569	0.0430	0.0548	0.0601	Ave		0.055 1		0.0050	13.1		20.0				
Dibromomethane	0.1334 0.1503	0.1537 0.1434	0.1456	0.1503	0.1477	Ave		0.146 3			4.5		20.0				
Bromodichloromethane	0.3547 0.3900	0.3883 0.3838	0.3732	0.3822	0.3839	Ave		0.379 5		0.2000	3.2		20.0				
2-Nitropropane	4.1430 3.0167	2.9957 2.9052	2.9048	2.9221	2.8065	Ave		3.099 1			15.0		20.0				
1-Bromo-2-chloroethane	0.2835 0.3087	0.3056 0.2944	0.3118	0.2873	0.2924	Ave		0.297 7			3.7		20.0				
cis-1,3-Dichloropropene	0.3975 0.4841	0.4622 0.4722	0.4365	0.4632	0.4716	Ave		0.455 3		0.2000	6.5		20.0				
4-Methyl-2-pentanone (MIBK)	12.137 12.918	12.249 12.109	12.159	12.861	12.142	Ave		12.36 8		0.1000	2.9		20.0				
Toluene	0.9498 1.0396	1.0588 1.0106	0.9539	1.0488	1.0369	Ave		1.014 1		0.4000	4.4		20.0				
trans-1,3-Dichloropropene	0.4002 0.5158	0.4945 0.4987	0.4652	0.4821	0.4941	Ave		0.478 7		0.1000	7.9		20.0				
Ethyl methacrylate	0.3574 0.4129	0.4090 0.3952	0.3972	0.3989	0.3999	Ave		0.395 8			4.6		20.0				
1,1,2-Trichloroethane	0.2809 0.2865	0.3083 0.2726	0.2875	0.2881	0.2795	Ave		0.286 2		0.1000	3.9		20.0				
Tetrachloroethene	0.5014 0.5475	0.5467 0.5307	0.4921	0.5405	0.5439	Ave		0.529 0		0.2000	4.3		20.0				
1,3-Dichloropropane	0.4233 0.4641	0.4778 0.4436	0.4490	0.4616	0.4512	Ave		0.452 9			3.8		20.0				
2-Hexanone	8.8528 9.1467	8.2331 8.6577	8.7808	9.0425	8.5353	Ave		8.749 8		0.1000	3.5		20.0				

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

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

Lab Name: Eurofins Lancaster Laboratories  
Environment Testing, LLC

Job No.: 410-140485-1

Analy Batch No.: 388102

SDG No.:

Instrument ID: 19930

GC Column: R-624SilMS 3 ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2023 18:19

Calibration End Date: 06/19/2023 20:25

Calibration ID: 51353

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								
Dibromochloromethane	0.3311 0.3948	0.3760 0.3851	0.3600	0.3771	0.3845	Ave		0.372 6			5.7		20.0				
1,2-Dibromoethane (EDB)	0.2490 0.2810	0.2725 0.2684	0.2745	0.2729	0.2718	Ave		0.270 n		0.1000	3.7		20.0				
1-Chlorohexane	0.6591 0.5910	0.6133 0.5709	0.5318	0.5810	0.5843	Ave		0.590 2			6.6		20.0				
Chlorobenzene	1.1145 1.2137	1.2421 1.1772	1.1389	1.2154	1.2035	Ave		1.186 5		0.5000	3.8		20.0				
1,1,1,2-Tetrachloroethane	0.3909 0.4370	0.4363 0.4247	0.4106	0.4304	0.4299	Ave		0.422 8			3.9		20.0				
Ethylbenzene	1.8937 2.0294	2.0779 1.9576	1.8576	2.0129	2.0058	Ave		1.976 4		0.1000	4.0		20.0				
m&p-Xylene	0.7394 0.8258	0.8389 0.7973	0.7562	0.8222	0.8159	Ave		0.799 4		0.1000	4.7		20.0				
o-Xylene	0.7350 0.8150	0.8284 0.7844	0.7597	0.8087	0.7990	Ave		0.790 n		0.3000	4.2		20.0				
Styrene	1.1454 1.3288	1.3143 1.2965	1.2118	1.2952	1.3055	Ave		1.271 1		0.3000	5.3		20.0				
Bromoform	0.2012 0.2639	0.2371 0.2586	0.2355	0.2444	0.2511	Ave		0.241 7		0.1000	8.6		20.0				
Isopropylbenzene	1.9253 2.1240	2.1280 2.0372	1.9198	2.1066	2.1028	Ave		2.049 1		0.1000	4.5		20.0				
1,1,2,2-Tetrachloroethane	0.5637 0.6041	0.6320 0.5707	0.6187	0.5949	0.5825	Ave		0.595 2		0.3000	4.2		20.0				
Bromobenzene	0.8029 0.8744	0.9071 0.8596	0.8350	0.8740	0.8686	Ave		0.860 2			3.9		20.0				
trans-1,4-Dichloro-2-butene	4.4463 4.8601	4.5473 4.6942	4.6249	4.8862	4.5387	Ave		4.656 8			3.6		20.0				
1,2,3-Trichloropropane	0.1529 0.1682	0.1789 0.1595	0.1799	0.1681	0.1621	Ave		0.167 1			5.9		20.0				
N-Propylbenzene	3.5762 3.9541	3.9093 3.8303	3.5631	3.8564	3.9626	Ave		3.807 4			4.4		20.0				
2-Chlorotoluene	0.7479 0.8603	0.8859 0.8359	0.7910	0.8531	0.8467	Ave		0.831 6			5.6		20.0				

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

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

Lab Name: Eurofins Lancaster Laboratories  
Environment Testing, LLC

Job No.: 410-140485-1

Analy Batch No.: 388102

SDG No.:

Instrument ID: 19930

GC Column: R-624SilMS 3 ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/19/2023 18:19

Calibration End Date: 06/19/2023 20:25

Calibration ID: 51353

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,3,5-Trimethylbenzene	2.7354 3.0010	3.0084 2.9111	2.7669	2.9427	2.9480	Ave		2.901 9			3.7		20.0				
4-Chlorotoluene	0.7768 0.8636	0.9021 0.8509	0.8266	0.8793	0.8647	Ave		0.852 n			4.8		20.0				
tert-Butylbenzene	0.6389 0.7236	0.7280 0.7095	0.6604	0.7129	0.7079	Ave		0.697 3			4.9		20.0				
Pentachloroethane	0.4612 0.5778	0.5310 0.5785	0.5635	0.5170	0.5459	Ave		0.539 3			7.7		20.0				
1,2,4-Trimethylbenzene	2.7498 3.0738	3.1042 2.9947	2.8733	3.0134	3.0460	Ave		2.979 3			4.2		20.0				
sec-Butylbenzene	3.4494 3.8478	3.8100 3.7003	3.4512	3.7866	3.7896	Ave		3.690 7			4.6		20.0				
1,3-Dichlorobenzene	1.5119 1.7448	1.7192 1.7169	1.6056	1.7205	1.7489	Ave		1.681 1		0.6000	5.3		20.0				
p-Isopropyltoluene	3.0078 3.4729	3.2975 3.3483	3.1075	3.3750	3.4248	Ave		3.290 6			5.2		20.0				
1,4-Dichlorobenzene	1.5508 1.6728	1.7572 1.6451	1.6382	1.6842	1.6514	Ave		1.657 1		0.5000	3.7		20.0				
1,2,3-Trimethylbenzene	1.3062 1.3657	1.3641 1.3507	1.3123	1.3647	1.3634	Ave		1.346 7			1.9		20.0				
Benzyl chloride	0.2067 0.2763	0.2541 0.2737	0.2545	0.2640	0.2609	Ave		0.255 8			9.1		20.0				
n-Butylbenzene	1.2574 1.5853	1.4653 1.5899	1.3608	1.4904	1.5647	Ave		1.473 4			8.5		20.0				
1,2-Dichlorobenzene	1.4557 1.6147	1.6656 1.5763	1.5399	1.6033	1.6002	Ave		1.579 4		0.4000	4.2		20.0				
1,2-Dibromo-3-Chloropropane	0.0799 0.1038	0.0949 0.1037	0.0986	0.1007	0.0994	Ave		0.097 3		0.0500	8.5		20.0				
1,3,5-Trichlorobenzene	1.1011 1.3352	1.2246 1.3675	1.1948	1.2867	1.3162	Ave		1.260 9			7.4		20.0				
1,2,4-Trichlorobenzene	0.8179 1.1039	0.9767 1.1316	0.9610	1.0464	1.0630	Ave		1.014 4		0.2000	10.5		20.0				
Hexachlorobutadiene	0.4453 0.5269	0.4695 0.5414	0.4489	0.4990	0.5280	Ave		0.494 1			8.1		20.0				

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

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

Lab Name: Eurofins Lancaster Laboratories      Job No.: 410-140485-1      Analy Batch No.: 388102  
 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: 06/19/2023 18:19      Calibration End Date: 06/19/2023 20:25      Calibration ID: 51353

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								
Naphthalene	1.6038 1.9170	1.8541 1.9319	1.8268	1.8969	1.8932	Ave		1.846 3			6.1		20.0				
1,2,3-Trichlorobenzene	0.7343 0.9057	0.8133 0.9277	0.8120	0.8622	0.8883	Ave		0.849 1			7.9		20.0				
Dibromofluoromethane (Surr)	0.2566 0.2570	0.2579 0.2549	0.2576	0.2551	0.2588	Ave		0.256 9			0.6		20.0				
1,2-Dichloroethane-d4 (Surr)	0.0503 0.0509	0.0510 0.0491	0.0523	0.0511	0.0519	Ave		0.050 9			2.1		20.0				
Toluene-d8 (Surr)	1.2909 1.2855	1.2924 1.2749	1.2762	1.2905	1.2890	Ave		1.285 6			0.6		20.0				
4-Bromofluorobenzene (Surr)	0.4829 0.4850	0.4855 0.4808	0.4824	0.4880	0.4865	Ave		0.484 4			0.5		20.0				

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

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

Lab Name: Eurofins Lancaster Laboratories Enviro Job No.: 410-140485-1 Analy Batch No.: 388102

SDG No.: \_\_\_\_\_

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

Calibration Start Date: 06/19/2023 18:19 Calibration End Date: 06/19/2023 20:25 Calibration ID: 51353

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-388102/13	IU19X12.D
Level 2	IC 410-388102/14	IU19X13.D
Level 3	IC 410-388102/15	IU19X14.D
Level 4	IC 410-388102/16	IU19X15.D
Level 5	IC 410-388102/17	IU19X16.D
Level 6	ICIS 410-388102/18	IU19X17.D
Level 7	IC 410-388102/19	IU19X18.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Dichlorodifluoromethane	FB	Ave	16248 731790	34723 1664427	68962	153092	360756	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	15918 711149	38309 1751882	73144	148627	355971	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	14822 695810	34833 1731717	69992	144284	346234	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	20337 661981	40081 1556945	70973	138958	325681	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	11798 529829	29277 1304970	55026	109113	265387	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	9134 408968	22289 1001229	41214	84063	204756	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	27749 1102425	62910 2721094	116915	227201	549690	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	18216 931553	43553 2175547	87039	185589	454389	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	7096 379387	18739 946563	37553	71951	187410	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 123a	FB	Ave	15145 618203	32387 1511147	60893	125946	308465	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBA 10	Ave	49712 2946849	142596 7153643	286815	572441	1460333	10.0 500	25.0 1250	50.0	100	250
1,1-Dichloroethene	FB	Ave	10300 491920	24450 1241308	42885	95792	252853	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBA 10	Ave	+++++	35188	70684	123579	325042	+++++	5.00	10.0	20.0	50.0

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

Lab Name: Eurofins Lancaster Laboratories Enviro Job No.: 410-140485-1 Analy Batch No.: 388102

SDG No.: \_\_\_\_\_

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

Calibration Start Date: 06/19/2023 18:19 Calibration End Date: 06/19/2023 20:25 Calibration ID: 51353

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	
			590923	1362907					100	250			
Freon 113	FB	Ave	9472 552493	24980 1362883	45537	103962	285989	0.200 10.0	0.500 25.0	1.00	2.00	5.00	
Methyl iodide	FB	Ave	19398 1046658	51051 2625621	96625	207682	535229	0.200 10.0	0.500 25.0	1.00	2.00	5.00	
Carbon disulfide	FB	Ave	25669 1353487	66169 3467769	119139	265233	686699	0.200 10.0	0.500 25.0	1.00	2.00	5.00	
Methyl acetate	TBAd 10	Ave	2537 165612	8217 407475	14418	29888	83849	0.200 10.0	0.500 25.0	1.00	2.00	5.00	
Allyl chloride	FB	Ave	16611 754668	37534 1915265	68239	148700	382363	0.200 10.0	0.500 25.0	1.00	2.00	5.00	
Methylene Chloride	FB	Ave	10282 518296	26705 1292711	47789	101250	263546	0.200 10.0	0.500 25.0	1.00	2.00	5.00	
t-Butyl alcohol	TBAd 10	Ave	9373 419183	27747 1110969	52571	99365	284492	4.00 200	10.0 500	20.0	40.0	100	
Acrylonitrile	TBAd 10	Ave	1976 215747	9924 527652	17396	42468	114187	0.500 25.0	1.25 62.5	2.50	5.00	12.5	
Methyl tert-butyl ether	FB	Ave	25640 1328588	67798 3409123	132891	267433	674458	0.200 10.0	0.500 25.0	1.00	2.00	5.00	
trans-1,2-Dichloroethene	FB	Ave	10568 549965	27769 1385244	49647	109363	279615	0.200 10.0	0.500 25.0	1.00	2.00	5.00	
n-Hexane	FB	Ave	15447 747981	33162 1840079	61908	138409	369911	0.200 10.0	0.500 25.0	1.00	2.00	5.00	
1,1-Dichloroethane	FB	Ave	16814 957603	46514 2413824	88859	188062	486164	0.200 10.0	0.500 25.0	1.00	2.00	5.00	
di-Isopropyl ether	FB	Ave	28604 1538859	77884 3889612	147957	305304	787124	0.200 10.0	0.500 25.0	1.00	2.00	5.00	
2-Chloro-1,3-butadiene	FB	Ave	14941 806204	38162 2022645	70549	157183	407363	0.200 10.0	0.500 25.0	1.00	2.00	5.00	
Ethyl t-butyl ether	FB	Ave	27595 1475081	73536 3706375	141482	293761	746447	0.200 10.0	0.500 25.0	1.00	2.00	5.00	
2-Butanone (MEK)	TBAd 10	Ave	23953	58914	122006	242793	609434	2.00	5.00	10.0	20.0	50.0	



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

Lab Name: Eurofins Lancaster Laboratories Enviro Job No.: 410-140485-1 Analy Batch No.: 388102

SDG No.: \_\_\_\_\_

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

Calibration Start Date: 06/19/2023 18:19 Calibration End Date: 06/19/2023 20:25 Calibration ID: 51353

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
			1212881	2912203				100	250			
cis-1,2-Dichloroethene	FB	Ave	11544 607013	31280 1543889	56850	121238	307184	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	16510 853357	41944 2153694	75466	169485	435561	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Propionitrile	TBAd 10	Ave	9783 686213	31714 1642296	66438	137306	323734	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd 10	Ave	21299 1304884	63442 3198256	128773	255367	659307	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	5098 278362	14176 693916	26936	54957	139749	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd 10	Ave	3713 200641	10811 469929	20095	39125	98820	1.00 50.0	2.50 125	5.00	10.0	25.0
Chloroform	FB	Ave	18306 973119	48008 2439280	91363	195036	497602	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	17436 914467	44606 2318413	81153	180779	472367	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	16560 898646	40898 2230992	73626	169296	460220	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	14611 847817	38435 2152417	71388	161435	428174	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	13634 738645	35524 1881849	63636	143481	376146	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	TBAd 10	Ave	9548 408183	24811 965364	48416	77021	221312	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	40659 2192041	107059 5552169	202213	433294	1110945	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	11298 589464	29283 1462742	56615	114498	300424	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	25111 1374850	68913 3439411	131492	268420	685739	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	15063	30853	58742	130745	360420	0.200	0.500	1.00	2.00	5.00

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

Lab Name: Eurofins Lancaster Laboratories Enviro Job No.: 410-140485-1 Analy Batch No.: 388102

SDG No.: \_\_\_\_\_

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

Calibration Start Date: 06/19/2023 18:19 Calibration End Date: 06/19/2023 20:25 Calibration ID: 51353

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	
			722856	1798135					10.0	25.0			
n-Butanol	TBAd 10	Ave	++++	25327	57099	112349	343098	++++	43.8	87.5	175	438	
			662655	1598692				875	2188				
Trichloroethene	FB	Ave	11079	30455	55041	119866	309932	0.200	0.500	1.00	2.00	5.00	
			615027	1562411				10.0	25.0				
Methylcyclohexane	FB	Ave	17852	45980	85392	193464	524891	0.200	0.500	1.00	2.00	5.00	
			1036558	2562276				10.0	25.0				
1,2-Dichloropropane	FB	Ave	9597	26965	50772	106323	275849	0.200	0.500	1.00	2.00	5.00	
			544394	1384198				10.0	25.0				
Methyl methacrylate	TBAd 10	Ave	3495	11677	25680	49293	137311	0.200	0.500	1.00	2.00	5.00	
			276225	695290				10.0	25.0				
1,4-Dioxane	TBAd 10	Ave	++++	++++	5746	13925	41814	++++	++++	50.0	100	250	
			79624	191965				500	1250				
Dibromomethane	FB	Ave	4789	13482	26070	54174	137376	0.200	0.500	1.00	2.00	5.00	
			271761	678044				10.0	25.0				
Bromodichloromethane	FB	Ave	12737	34054	66817	137781	357171	0.200	0.500	1.00	2.00	5.00	
			705073	1814784				10.0	25.0				
2-Nitropropane	TBAd 10	Ave	9668	19831	38795	74299	195361	1.00	2.50	5.00	10.0	25.0	
			394504	979651				50.0	125				
1-Bromo-2-chloroethane	FB	Ave	10178	26799	55828	103572	272020	0.200	0.500	1.00	2.00	5.00	
			557990	1391897				10.0	25.0				
cis-1,3-Dichloropropene	FB	Ave	14274	40532	78154	166986	438752	0.200	0.500	1.00	2.00	5.00	
			875051	2232649				10.0	25.0				
4-Methyl-2-pentanone (MIBK)	TBAd 10	Ave	56646	162172	324775	654051	1690397	2.00	5.00	10.0	20.0	50.0	
			3378679	8166235				100	250				
Toluene	CBZd 5	Ave	26878	73122	134873	296153	767071	0.200	0.500	1.00	2.00	5.00	
			1497015	3812060				10.0	25.0				
trans-1,3-Dichloropropene	CBZd 5	Ave	11326	34150	65778	136143	365510	0.200	0.500	1.00	2.00	5.00	
			742761	1881067				10.0	25.0				

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

Lab Name: Eurofins Lancaster Laboratories Enviro Job No.: 410-140485-1 Analy Batch No.: 388102

SDG No.: \_\_\_\_\_

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

Calibration Start Date: 06/19/2023 18:19 Calibration End Date: 06/19/2023 20:25 Calibration ID: 51353

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
Ethyl methacrylate	CBZd 5	Ave	10113	28243	56167	112647	295850	0.200	0.500	1.00	2.00	5.00
			594538	1490629				10.0	25.0			
1,1,2-Trichloroethane	CBZd 5	Ave	7948	21292	40644	81347	206782	0.200	0.500	1.00	2.00	5.00
			412606	1028167				10.0	25.0			
Tetrachloroethene	CBZd 5	Ave	14188	37751	69578	152617	402350	0.200	0.500	1.00	2.00	5.00
			788455	2002051				10.0	25.0			
1,3-Dichloropropane	CBZd 5	Ave	11978	32993	63491	130340	333810	0.200	0.500	1.00	2.00	5.00
			668224	1673377				10.0	25.0			
2-Hexanone	TBA 10	Ave	41318	109004	234543	459845	1188293	2.00	5.00	10.0	20.0	50.0
			2392308	5838914				100	250			
Dibromochloromethane	CBZd 5	Ave	9369	25969	50898	106469	284463	0.200	0.500	1.00	2.00	5.00
			568456	1452583				10.0	25.0			
1,2-Dibromoethane (EDB)	CBZd 5	Ave	7047	18815	38807	77070	201076	0.200	0.500	1.00	2.00	5.00
			404683	1012515				10.0	25.0			
1-Chlorohexane	CBZd 5	Ave	18652	42354	75197	164067	432239	0.200	0.500	1.00	2.00	5.00
			850962	2153392				10.0	25.0			
Chlorobenzene	CBZd 5	Ave	31539	85778	161040	343177	890297	0.200	0.500	1.00	2.00	5.00
			1747675	4440532				10.0	25.0			
1,1,1,2-Tetrachloroethane	CBZd 5	Ave	11062	30129	58062	121541	318029	0.200	0.500	1.00	2.00	5.00
			629258	1601843				10.0	25.0			
Ethylbenzene	CBZd 5	Ave	53589	143495	262649	568378	1483797	0.200	0.500	1.00	2.00	5.00
			2922252	7384442				10.0	25.0			
m&p-Xylene	CBZd 5	Ave	41851	115867	213843	464338	1207085	0.400	1.00	2.00	4.00	10.0
			2378256	6014911				20.0	50.0			

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

Lab Name: Eurofins Lancaster Laboratories Enviro Job No.: 410-140485-1 Analy Batch No.: 388102

SDG No.: \_\_\_\_\_

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

Calibration Start Date: 06/19/2023 18:19 Calibration End Date: 06/19/2023 20:25 Calibration ID: 51353

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
o-Xylene	CBZd 5	Ave	20800	57211	107419	228364	591109	0.200	0.500	1.00	2.00	5.00
			1173518	2958784				10.0	25.0			
Styrene	CBZd 5	Ave	32413	90765	171340	365726	965746	0.200	0.500	1.00	2.00	5.00
			1913392	4890581				10.0	25.0			
Bromoform	CBZd 5	Ave	5694	16371	33303	69013	185725	0.200	0.500	1.00	2.00	5.00
			380006	975567				10.0	25.0			
Isopropylbenzene	CBZd 5	Ave	54485	146958	271455	594828	1555613	0.200	0.500	1.00	2.00	5.00
			3058543	7684471				10.0	25.0			
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	9790	26384	52659	103555	265162	0.200	0.500	1.00	2.00	5.00
			534348	1308898				10.0	25.0			
Bromobenzene	DCBd 4	Ave	13944	37870	71063	152143	395435	0.200	0.500	1.00	2.00	5.00
			773433	1971522				10.0	25.0			
trans-1,4-Dichloro-2-butene	TBAd 10	Ave	20752	60206	123536	248485	631878	2.00	5.00	10.0	20.0	50.0
			1271163	3165888				100	250			
1,2,3-Trichloropropane	DCBd 4	Ave	2656	7469	15312	29265	73791	0.200	0.500	1.00	2.00	5.00
			148764	365750				10.0	25.0			
N-Propylbenzene	DCBd 4	Ave	62107	163202	303252	671294	1803955	0.200	0.500	1.00	2.00	5.00
			3497528	8784621				10.0	25.0			
2-Chlorotoluene	DCBd 4	Ave	12989	36985	67323	148498	385471	0.200	0.500	1.00	2.00	5.00
			760985	1917179				10.0	25.0			
1,3,5-Trimethylbenzene	DCBd 4	Ave	47506	125592	235489	512246	1342032	0.200	0.500	1.00	2.00	5.00
			2654457	6676624				10.0	25.0			
4-Chlorotoluene	DCBd 4	Ave	13490	37661	70351	153069	393652	0.200	0.500	1.00	2.00	5.00
			763897	1951600				10.0	25.0			

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

Lab Name: Eurofins Lancaster Laboratories Enviro Job No.: 410-140485-1 Analy Batch No.: 388102

SDG No.: \_\_\_\_\_

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

Calibration Start Date: 06/19/2023 18:19 Calibration End Date: 06/19/2023 20:25 Calibration ID: 51353

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
tert-Butylbenzene	DCBd 4	Ave	11096	30391	56204	124089	322256	0.200	0.500	1.00	2.00	5.00
			640020	1627291					10.0	25.0		
Pentachloroethane	DCBd 4	Ave	8010	22167	47961	89999	248510	0.200	0.500	1.00	2.00	5.00
			511060	1326828					10.0	25.0		
1,2,4-Trimethylbenzene	DCBd 4	Ave	47756	129589	244539	524551	1386678	0.200	0.500	1.00	2.00	5.00
			2718845	6868217					10.0	25.0		
sec-Butylbenzene	DCBd 4	Ave	59906	159057	293727	659131	1725161	0.200	0.500	1.00	2.00	5.00
			3403512	8486591					10.0	25.0		
1,3-Dichlorobenzene	DCBd 4	Ave	26258	71773	136646	299493	796177	0.200	0.500	1.00	2.00	5.00
			1543368	3937722					10.0	25.0		
p-Isopropyltoluene	DCBd 4	Ave	52236	137662	264478	587493	1559110	0.200	0.500	1.00	2.00	5.00
			3071854	7679357					10.0	25.0		
1,4-Dichlorobenzene	DCBd 4	Ave	26932	73356	139429	293178	751794	0.200	0.500	1.00	2.00	5.00
			1479609	3772911					10.0	25.0		
1,2,3-Trimethylbenzene	DCBd 4	Ave	22684	56949	111687	237548	620671	0.200	0.500	1.00	2.00	5.00
			1208040	3097874					10.0	25.0		
Benzyl chloride	DCBd 4	Ave	3590	10607	21662	45949	118785	0.200	0.500	1.00	2.00	5.00
			244410	627829					10.0	25.0		
n-Butylbenzene	DCBd 4	Ave	21838	61172	115817	259442	712295	0.200	0.500	1.00	2.00	5.00
			1402209	3646359					10.0	25.0		
1,2-Dichlorobenzene	DCBd 4	Ave	25281	69532	131059	279095	728454	0.200	0.500	1.00	2.00	5.00
			1428274	3615183					10.0	25.0		
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1388	3960	8390	17537	45263	0.200	0.500	1.00	2.00	5.00
			91829	237783					10.0	25.0		

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

Lab Name: Eurofins Lancaster Laboratories Enviro Job No.: 410-140485-1 Analy Batch No.: 388102

SDG No.: \_\_\_\_\_

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

Calibration Start Date: 06/19/2023 18:19 Calibration End Date: 06/19/2023 20:25 Calibration ID: 51353

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,3,5-Trichlorobenzene	DCBd 4	Ave	19123	51123	101687	223971	599184	0.200	0.500	1.00	2.00	5.00
			1180993	3136365				10.0	25.0			
1,2,4-Trichlorobenzene	DCBd 4	Ave	14205	40773	81792	182141	483938	0.200	0.500	1.00	2.00	5.00
			976458	2595192				10.0	25.0			
Hexachlorobutadiene	DCBd 4	Ave	7733	19602	38205	86860	240365	0.200	0.500	1.00	2.00	5.00
			466073	1241765				10.0	25.0			
Naphthalene	DCBd 4	Ave	27854	77405	155480	330200	861870	0.200	0.500	1.00	2.00	5.00
			1695646	4430802				10.0	25.0			
1,2,3-Trichlorobenzene	DCBd 4	Ave	12752	33951	69112	150086	404377	0.200	0.500	1.00	2.00	5.00
			801092	2127625				10.0	25.0			
Dibromofluoromethane (Surr)	FB	Ave	460650	452360	461318	459886	481549	10.0	10.0	10.0	10.0	10.0
			464653	482075				10.0	10.0			
1,2-Dichloroethane-d4 (Surr)	FB	Ave	90262	89414	93659	92053	96600	10.0	10.0	10.0	10.0	10.0
			91929	92867				10.0	10.0			
Toluene-d8 (Surr)	CBZd 5	Ave	1826605	1785023	1804500	1822022	1907167	10.0	10.0	10.0	10.0	10.0
			1851132	1923611				10.0	10.0			
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	683248	670589	682073	688953	719841	10.0	10.0	10.0	10.0	10.0
			698444	725457				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 Enviro Job No.: 410-140485-1 Analy Batch No.: 388102

SDG No.: \_\_\_\_\_

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

Calibration Start Date: 06/19/2023 18:19 Calibration End Date: 06/19/2023 20:25 Calibration ID: 51353

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-388102/13	IU19X12.D
Level 2	IC 410-388102/14	IU19X13.D
Level 3	IC 410-388102/15	IU19X14.D
Level 4	IC 410-388102/16	IU19X15.D
Level 5	IC 410-388102/17	IU19X16.D
Level 6	ICIS 410-388102/18	IU19X17.D
Level 7	IC 410-388102/19	IU19X18.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	13.0 -12.1	-1.1	-3.8	6.1	-3.2	1.1	50 30	30	30	30	30	30
Chloromethane	9.0 -8.9	7.4	0.4	1.3	-5.9	-3.3	50 30	30	30	30	30	30
Vinyl chloride	6.1 -5.9	2.1	0.4	2.8	-4.4	-1.1	50 30	30	30	30	30	30
1,3-Butadiene	39.1 -19.1	12.2	-2.7	-5.4	-14.0	-10.1	50 30	30	30	30	30	30
Bromomethane	8.2 -9.2	9.9	1.1	-0.4	-6.1	-3.5	50 30	30	30	30	30	30
Chloroethane	9.2 -9.1	9.1	-1.2	0.1	-5.5	-2.8	50 30	30	30	30	30	30
Dichlorofluoromethane	18.9 -11.4	10.4	0.5	-3.0	-9.1	-6.2	50 30	30	30	30	30	30
Trichlorofluoromethane	2.4 -7.1	0.2	-1.9	3.9	-1.4	4.0	50 30	30	30	30	30	30
Ethyl ether	-3.4 -2.1	4.4	2.5	-2.4	-1.5	2.6	50 30	30	30	30	30	30
Freon 123a	19.4 -9.6	4.5	-3.8	-1.1	-6.2	-3.2	50 30	30	30	30	30	30
Acrolein	-1.6 -2.0	-0.5	-0.8	4.0	-3.1	4.1	50 30	30	30	30	30	30
1,1-Dichloroethene	7.0 -2.1	4.0	-10.7	-0.9	1.3	1.5	50 30	30	30	30	30	30
Acetone	++++ -15.5	11.1	10.7	1.6	-2.4	-5.5	30	50	30	30	30	30
Freon 113	-7.3 1.3	0.1	-10.7	1.3	8.0	7.4	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 Enviro Job No.: 410-140485-1 Analy Batch No.: 388102

SDG No.: \_\_\_\_\_

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

Calibration Start Date: 06/19/2023 18:19 Calibration End Date: 06/19/2023 20:25 Calibration ID: 51353

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Methyl iodide	-4.2 -1.5	3.2	-4.3	2.1	2.0	2.7	50 30	30	30	30	30	30
Carbon disulfide	-1.7 0.9	3.7	-8.5	1.2	1.5	3.0	50 30	30	30	30	30	30
Methyl acetate	-7.9 2.4	5.2	-8.5	-0.4	2.0	7.3	50 30	30	30	30	30	30
Allyl chloride	11.0 -2.8	2.7	-8.6	-1.0	-1.4	0.2	50 30	30	30	30	30	30
Methylene Chloride	1.1 -3.4	7.5	-5.7	-0.8	0.0	1.3	50 30	30	30	30	30	30
t-Butyl alcohol	5.5 -13.4	10.1	3.4	2.7	7.4	-15.8	50 30	30	30	30	30	30
Acrylonitrile	-41.7 7.7	3.1	-10.4	14.9	12.9	13.5	50 30	30	30	30	30	30
Methyl tert-butyl ether	-3.0 -2.0	5.0	0.8	0.8	-1.5	-0.1	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-1.4 -1.8	6.1	-7.1	1.6	0.7	1.9	50 30	30	30	30	30	30
n-Hexane	10.0 -0.5	-3.3	-11.6	-1.9	1.6	5.8	50 30	30	30	30	30	30
1,1-Dichloroethane	-8.4 -0.2	3.7	-3.0	2.0	2.2	3.6	50 30	30	30	30	30	30
di-Isopropyl ether	-5.1 -2.0	5.8	-1.6	0.9	0.8	1.4	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-2.7 0.1	1.8	-7.8	2.0	2.4	4.3	50 30	30	30	30	30	30
Ethyl t-butyl ether	-4.2 -2.3	4.5	-1.5	1.6	0.0	1.7	50 30	30	30	30	30	30
2-Butanone (MEK)	11.4 -6.3	-3.4	-0.9	3.6	-5.0	0.6	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-3.2 -1.7	7.4	-4.4	1.3	-0.6	1.1	50 30	30	30	30	30	30
2,2-Dichloropropane	-0.2 -1.1	3.8	-8.5	2.0	1.6	2.5	50 30	30	30	30	30	30
Propionitrile	-14.0 -0.1	-1.7	2.0	10.8	-4.6	7.6	50 30	30	30	30	30	30
Methacrylonitrile	-5.1 -1.4	-0.4	0.2	4.4	-1.5	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 Enviro Job No.: 410-140485-1 Analy Batch No.: 388102

SDG No.: \_\_\_\_\_

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

Calibration Start Date: 06/19/2023 18:19 Calibration End Date: 06/19/2023 20:25 Calibration ID: 51353

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Bromochloromethane	-6.0 -2.8	7.0	-0.4	0.9	-0.6	1.9	50 30	30	30	30	30	30
Tetrahydrofuran	4.9 -8.1	7.7	-0.8	1.5	-6.4	1.2	50 30	30	30	30	30	30
Chloroform	-3.5 -2.3	3.6	-3.4	2.4	1.3	1.9	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-1.6 -0.6	3.1	-8.1	1.7	2.9	2.6	50 30	30	30	30	30	30
Cyclohexane	-1.3 0.9	-0.2	-12.0	0.5	5.8	6.4	50 30	30	30	30	30	30
Carbon tetrachloride	-7.4 3.6	-0.3	-9.3	1.9	4.7	6.7	50 30	30	30	30	30	30
1,1-Dichloropropene	-3.3 1.3	3.1	-9.5	1.3	2.9	4.0	50 30	30	30	30	30	30
Isobutyl alcohol	21.1 -15.3	10.9	7.3	-10.4	-5.9	-7.6	50 30	30	30	30	30	30
Benzene	-4.1 -0.5	3.4	-4.4	1.8	1.1	2.7	50 30	30	30	30	30	30
1,2-Dichloroethane	-1.7 -3.4	4.3	-1.2	-0.8	0.9	1.9	50 30	30	30	30	30	30
t-Amyl methyl ether	-5.7 -1.9	6.0	-0.9	0.4	-0.6	2.6	50 30	30	30	30	30	30
n-Heptane	11.7 1.2	-6.3	-12.7	-3.5	3.1	6.4	50 30	30	30	30	30	30
n-Butanol	++++ 4.4	-15.8	-5.9	-2.7	8.5	11.5	30	50	30	30	30	30
Trichloroethene	-6.1 0.6	5.7	-6.4	1.2	1.4	3.6	50 30	30	30	30	30	30
Methylcyclohexane	-6.3 2.1	-1.2	-10.1	1.1	6.3	8.1	50 30	30	30	30	30	30
1,2-Dichloropropane	-8.4 0.3	5.3	-2.9	1.0	1.6	3.2	50 30	30	30	30	30	30
Methyl methacrylate	-21.0 8.8	-6.9	1.4	2.3	4.1	11.4	50 30	30	30	30	30	30
1,4-Dioxane	++++ 3.3	++++	-22.0	-0.7	8.9	10.4	30		50	30	30	30
Dibromomethane	-8.9 -2.0	5.1	-0.5	2.7	0.9	2.7	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 Enviro Job No.: 410-140485-1 Analy Batch No.: 388102

SDG No.: \_\_\_\_\_

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

Calibration Start Date: 06/19/2023 18:19 Calibration End Date: 06/19/2023 20:25 Calibration ID: 51353

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Bromodichloromethane	-6.5 1.2	2.3	-1.7	0.7	1.2	2.8	50 30	30	30	30	30	30
2-Nitropropane	33.7 -6.3	-3.3	-6.3	-5.7	-9.4	-2.7	50 30	30	30	30	30	30
1-Bromo-2-chloroethane	-4.8 -1.1	2.7	4.7	-3.5	-1.8	3.7	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-12.7 3.7	1.5	-4.1	1.7	3.6	6.3	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	-1.9 -2.1	-1.0	-1.7	4.0	-1.8	4.4	50 30	30	30	30	30	30
Toluene	-6.3 -0.3	4.4	-5.9	3.4	2.3	2.5	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-16.4 4.2	3.3	-2.8	0.7	3.2	7.8	50 30	30	30	30	30	30
Ethyl methacrylate	-9.7 -0.2	3.3	0.4	0.8	1.0	4.3	50 30	30	30	30	30	30
1,1,2-Trichloroethane	-1.9 -4.8	7.7	0.4	0.7	-2.3	0.1	50 30	30	30	30	30	30
Tetrachloroethene	-5.2 0.3	3.3	-7.0	2.2	2.8	3.5	50 30	30	30	30	30	30
1,3-Dichloropropane	-6.6 -2.1	5.5	-0.9	1.9	-0.4	2.5	50 30	30	30	30	30	30
2-Hexanone	1.2 -1.1	-5.9	0.4	3.3	-2.5	4.5	50 30	30	30	30	30	30
Dibromochloromethane	-11.2 3.3	0.9	-3.4	1.2	3.2	5.9	50 30	30	30	30	30	30
1,2-Dibromoethane (EDB)	-7.8 -0.6	0.9	1.6	1.1	0.7	4.1	50 30	30	30	30	30	30
1-Chlorohexane	11.7 -3.3	3.9	-9.9	-1.6	-1.0	0.1	50 30	30	30	30	30	30
Chlorobenzene	-6.1 -0.8	4.7	-4.0	2.4	1.4	2.3	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-7.6 0.4	3.2	-2.9	1.8	1.7	3.3	50 30	30	30	30	30	30
Ethylbenzene	-4.2 -0.9	5.1	-6.0	1.8	1.5	2.7	50 30	30	30	30	30	30
m&p-Xylene	-7.5 -0.3	4.9	-5.4	2.9	2.1	3.3	50 30	30	30	30	30	30

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

Lab Name: Eurofins Lancaster Laboratories Enviro Job No.: 410-140485-1 Analy Batch No.: 388102

SDG No.: \_\_\_\_\_

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

Calibration Start Date: 06/19/2023 18:19 Calibration End Date: 06/19/2023 20:25 Calibration ID: 51353

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
o-Xylene	-7.0 -0.7	4.9	-3.8	2.4	1.1	3.2	50 30	30	30	30	30	30
Styrene	-9.9 2.0	3.4	-4.7	1.9	2.7	4.5	50 30	30	30	30	30	30
Bromoform	-16.7 7.0	-1.9	-2.5	1.1	3.9	9.2	50 30	30	30	30	30	30
Isopropylbenzene	-6.0 -0.6	3.9	-6.3	2.8	2.6	3.7	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-5.3 -4.1	6.2	3.9	-0.1	-2.1	1.5	50 30	30	30	30	30	30
Bromobenzene	-6.7 -0.1	5.5	-2.9	1.6	1.0	1.6	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-4.5 0.8	-2.4	-0.7	4.9	-2.5	4.4	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-8.5 -4.6	7.1	7.7	0.6	-3.0	0.7	50 30	30	30	30	30	30
N-Propylbenzene	-6.1 0.6	2.7	-6.4	1.3	4.1	3.9	50 30	30	30	30	30	30
2-Chlorotoluene	-10.1 0.5	6.5	-4.9	2.6	1.8	3.5	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-5.7 0.3	3.7	-4.7	1.4	1.6	3.4	50 30	30	30	30	30	30
4-Chlorotoluene	-8.8 -0.1	5.9	-3.0	3.2	1.5	1.4	50 30	30	30	30	30	30
tert-Butylbenzene	-8.4 1.8	4.4	-5.3	2.2	1.5	3.8	50 30	30	30	30	30	30
Pentachloroethane	-14.5 7.3	-1.5	4.5	-4.1	1.2	7.1	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-7.7 0.5	4.2	-3.6	1.1	2.2	3.2	50 30	30	30	30	30	30
sec-Butylbenzene	-6.5 0.3	3.2	-6.5	2.6	2.7	4.3	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-10.1 2.1	2.3	-4.5	2.3	4.0	3.8	50 30	30	30	30	30	30
p-Isopropyltoluene	-8.6 1.8	0.2	-5.6	2.6	4.1	5.5	50 30	30	30	30	30	30
1,4-Dichlorobenzene	-6.4 -0.7	6.0	-1.1	1.6	-0.3	0.9	50 30	30	30	30	30	30

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

Lab Name: Eurofins Lancaster Laboratories Enviro Job No.: 410-140485-1 Analy Batch No.: 388102

SDG No.: \_\_\_\_\_

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

Calibration Start Date: 06/19/2023 18:19 Calibration End Date: 06/19/2023 20:25 Calibration ID: 51353

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
1,2,3-Trimethylbenzene	-3.0 0.3	1.3	-2.6	1.3	1.2	1.4	50 30	30	30	30	30	30
Benzyl chloride	-19.2 7.0	-0.7	-0.5	3.2	2.0	8.0	50 30	30	30	30	30	30
n-Butylbenzene	-14.7 7.9	-0.5	-7.6	1.2	6.2	7.6	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-7.8 -0.2	5.5	-2.5	1.5	1.3	2.2	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-17.9 6.6	-2.5	1.3	3.6	2.2	6.7	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-12.7 8.5	-2.9	-5.2	2.0	4.4	5.9	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-19.4 11.6	-3.7	-5.3	3.2	4.8	8.8	50 30	30	30	30	30	30
Hexachlorobutadiene	-9.9 9.6	-5.0	-9.2	1.0	6.8	6.6	50 30	30	30	30	30	30
Naphthalene	-13.1 4.6	0.4	-1.1	2.7	2.5	3.8	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-13.5 9.3	-4.2	-4.4	1.5	4.6	6.7	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-0.1 -0.8	0.4	0.3	-0.7	0.8	0.1	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	-1.3 -3.6	0.1	2.7	0.3	1.9	-0.1	50 30	30	30	30	30	30
Toluene-d8 (Surr)	0.4 -0.8	0.5	-0.7	0.4	0.3	0.0	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-0.3 -0.8	0.2	-0.4	0.7	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\20230619-86929.b\IU19X12.D  
 Lims ID: IC std1  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 19-Jun-2023 18:19:30 ALS Bottle#: 12 Worklist Smp#: 13  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0086929-013  
 Misc. Info.: LG 0.2  
 Operator ID: KNK41612 Instrument ID: 19930  
 Sublist: chrom-8260 25ml HP31\*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 27-Jun-2023 12:30:03 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D

Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1687

First Level Reviewer: DVW2

Date: 21-Jun-2023 07:51:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.849	1.855	-0.006	95	16248	0.2000	0.2260	M
4 Chloromethane	50	2.038	2.050	-0.012	99	15918	0.2000	0.2180	
5 Vinyl chloride	62	2.148	2.160	-0.012	79	14822	0.2000	0.2121	
6 Butadiene	39	2.142	2.160	-0.018	90	20337	0.2000	0.2782	M
7 Bromomethane	94	2.452	2.465	-0.013	90	11798	0.2000	0.2163	
8 Chloroethane	64	2.532	2.538	-0.006	99	9134	0.2000	0.2185	
9 Dichlorofluoromethane	67	2.751	2.764	-0.013	96	27749	0.2000	0.2378	M
10 Trichlorofluoromethane	101	2.836	2.824	0.012	61	18216	0.2000	0.2048	
11 Ethyl ether	59	3.038	3.050	-0.012	59	7096	0.2000	0.1932	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.117	3.142	-0.025	88	15145	0.2000	0.2387	
14 Acrolein	56	3.208	3.209	-0.001	98	49712	10.0	9.84	
15 1,1-Dichloroethene	96	3.330	3.337	-0.007	94	10300	0.2000	0.2139	
16 Acetone	43	3.379	3.361	0.018	48	22071	2.00	3.95	M
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.379	3.385	-0.006	86	9472	0.2000	0.1853	
18 Iodomethane	142	3.513	3.526	-0.013	98	19398	0.2000	0.1916	
19 Ethyl bromide	108	3.538	3.550	-0.012	95	8280	0.1998	0.1965	
20 Carbon disulfide	76	3.617	3.629	-0.012	99	25669	0.2000	0.1966	
23 Methyl acetate	43	3.769	3.757	0.012	24	2537	0.2000	0.1842	M
24 3-Chloro-1-propene	41	3.775	3.782	-0.007	89	16611	0.2000	0.2220	M
25 Methylene Chloride	84	3.958	3.958	0.000	86	10282	0.2000	0.2023	
* 26 t-Butyl alcohol-d10 (IS)	65	3.964	4.025	-0.061	87	116680	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.080	4.093	-0.013	26	9373	4.00	4.22	M
28 Acrylonitrile	53	4.330	4.282	0.048	24	1976	0.5000	0.2913	
29 Methyl tert-butyl ether	73	4.330	4.342	-0.012	93	25640	0.2000	0.1940	
30 trans-1,2-Dichloroethene	96	4.348	4.355	-0.007	96	10568	0.2000	0.1972	
31 Hexane	57	4.775	4.781	-0.006	94	15447	0.2000	0.2199	
32 1,1-Dichloroethane	63	5.013	5.013	0.000	94	16814	0.2000	0.1832	
35 Isopropyl ether	45	5.074	5.074	0.000	97	28604	0.2000	0.1897	
36 2-Chloro-1,3-butadiene	53	5.129	5.123	0.006	89	14941	0.2000	0.1946	
37 Tert-butyl ethyl ether	59	5.610	5.623	-0.013	97	27595	0.2000	0.1916	

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	5.848	5.812	0.036	68	23953	2.00	2.23	
39 cis-1,2-Dichloroethene	96	5.848	5.854	-0.006	79	11544	0.2000	0.1936	
40 2,2-Dichloropropane	77	5.866	5.867	-0.001	66	16510	0.2000	0.1996	
43 Propionitrile	54	5.976	5.891	0.085	39	9783	4.00	3.44	
45 Methacrylonitrile	67	6.122	6.110	0.012	92	21299	2.00	1.90	
S 41 1,2-Dichloroethene, Total	100				0			0.3909	
46 Chlorobromomethane	128	6.190	6.190	0.000	83	5098	0.2000	0.1880	
47 Tetrahydrofuran	71	6.202	6.196	0.006	60	3713	1.00	1.05	
48 Chloroform	83	6.342	6.342	0.000	92	18306	0.2000	0.1930	
\$ 49 Dibromofluoromethane (Surr)	113	6.549	6.555	-0.006	95	460650	10.0	9.99	
50 1,1,1-Trichloroethane	97	6.567	6.568	-0.001	37	17436	0.2000	0.1969	
51 Cyclohexane	56	6.659	6.671	-0.012	87	16560	0.2000	0.1973	
54 Carbon tetrachloride	117	6.775	6.781	-0.006	96	14611	0.2000	0.1852	
53 1,1-Dichloropropene	75	6.781	6.781	0.000	93	13634	0.2000	0.1934	
55 Isobutyl alcohol	41	6.952	6.940	0.012	50	9548	10.0	12.1	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.000	7.013	-0.013	65	90262	10.0	9.87	
57 Benzene	78	7.037	7.043	-0.006	92	40659	0.2000	0.1918	
58 1,2-Dichloroethane	62	7.116	7.116	0.000	59	11298	0.2000	0.1966	
60 Tert-amyl methyl ether	73	7.238	7.244	-0.006	98	25111	0.2000	0.1887	
* 61 Fluorobenzene (IS)	96	7.445	7.445	0.000	99	1795291	10.0	10.0	
62 n-Heptane	43	7.464	7.470	-0.006	36	15063	0.2000	0.2233	
63 n-Butanol	56	8.006	7.836	0.170	6	5699	17.5	9.41	M
64 Trichloroethene	95	7.933	7.933	0.000	95	11079	0.2000	0.1879	
65 Methylcyclohexane	83	8.244	8.244	0.000	89	17852	0.2000	0.1874	
66 1,2-Dichloropropane	63	8.262	8.269	-0.007	79	9597	0.2000	0.1831	
67 Methyl methacrylate	69	8.396	8.354	0.042	69	3495	0.2000	0.1580	
68 1,4-Dioxane	88		8.366				ND	ND	U
69 Dibromomethane	93	8.378	8.378	0.000	89	4789	0.2000	0.1823	
71 Dichlorobromomethane	83	8.616	8.616	0.000	97	12737	0.2000	0.1870	
72 2-Nitropropane	41	8.890	8.884	0.006	97	9668	1.00	1.34	M
75 1-Bromo-2-chloroethane	63	9.012	9.012	0.000	96	10178	0.2000	0.1905	
76 cis-1,3-Dichloropropene	75	9.189	9.177	0.012	94	14274	0.2000	0.1746	
77 4-Methyl-2-pentanone (MIBK)	43	9.366	9.360	0.006	96	56646	2.00	1.96	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.500	-0.006	93	1826605	10.0	10.0	
79 Toluene	92	9.579	9.579	0.000	98	26878	0.2000	0.1873	
97 trans-1,3-Dichloropropene	75	9.853	9.848	0.005	91	11326	0.2000	0.1672	
99 Ethyl methacrylate	69	9.927	9.915	0.012	86	10113	0.2000	0.1806	
100 1,1,2-Trichloroethane	97	10.061	10.055	0.006	89	7948	0.2000	0.1963	
S 98 1,3-Dichloropropene, Total	100				0			0.3418	
101 Tetrachloroethene	166	10.146	10.146	0.000	96	14188	0.2000	0.1896	
102 1,3-Dichloropropane	76	10.225	10.219	0.006	89	11978	0.2000	0.1869	
103 2-Hexanone	43	10.292	10.274	0.018	95	41318	2.00	2.02	
105 Chlorodibromomethane	129	10.439	10.439	0.000	89	9369	0.2000	0.1777	
106 Ethylene Dibromide	107	10.555	10.549	0.005	97	7047	0.2000	0.1844	
* 107 Chlorobenzene-d5 (IS)	117	10.987	10.987	0.000	84	1414940	10.0	10.0	
108 1-Chlorohexane	91	11.006	11.000	0.006	86	18652	0.2000	0.2234	a
109 Chlorobenzene	112	11.012	11.018	-0.006	96	31539	0.2000	0.1879	
111 1,1,1,2-Tetrachloroethane	131	11.097	11.097	0.000	91	11062	0.2000	0.1849	
112 Ethylbenzene	91	11.103	11.103	0.000	98	53589	0.2000	0.1916	a
113 m-Xylene & p-Xylene	106	11.225	11.219	0.006	93	41851	0.4000	0.3700	
S 110 Xylenes, Total	106				0			0.5561	
114 o-Xylene	106	11.554	11.554	0.000	95	20800	0.2000	0.1861	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Styrene	104	11.579	11.567	0.012	94	32413	0.2000	0.1802	
116 Bromoform	173	11.731	11.725	0.006	96	5694	0.2000	0.1665	
117 Isopropylbenzene	105	11.859	11.859	0.000	95	54485	0.2000	0.1879	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.999	12.000	-0.001	96	683248	10.0	9.97	
121 1,1,2,2-Tetrachloroethane	83	12.103	12.103	0.000	95	9790	0.2000	0.1894	
122 Bromobenzene	156	12.121	12.115	0.006	89	13944	0.2000	0.1867	
123 trans-1,4-Dichloro-2-butene	53	12.133	12.128	0.005	94	20752	2.00	1.91	
124 1,2,3-Trichloropropane	110	12.152	12.146	0.006	79	2656	0.2000	0.1831	
125 N-Propylbenzene	91	12.188	12.189	-0.001	98	62107	0.2000	0.1879	M
126 2-Chlorotoluene	126	12.268	12.262	0.006	98	12989	0.2000	0.1799	a
127 1,3,5-Trimethylbenzene	105	12.329	12.323	0.006	95	47506	0.2000	0.1885	
128 4-Chlorotoluene	126	12.359	12.353	0.006	97	13490	0.2000	0.1823	
129 tert-Butylbenzene	134	12.566	12.566	0.000	93	11096	0.2000	0.1833	
130 Pentachloroethane	167	12.597	12.597	0.000	77	8010	0.2000	0.1711	
131 1,2,4-Trimethylbenzene	105	12.609	12.609	0.000	96	47756	0.2000	0.1846	
132 sec-Butylbenzene	105	12.731	12.731	0.000	93	59906	0.2000	0.1869	
133 1,3-Dichlorobenzene	146	12.835	12.829	0.006	97	26258	0.2000	0.1799	
134 4-Isopropyltoluene	119	12.841	12.841	0.000	97	52236	0.2000	0.1828	
* 135 1,4-Dichlorobenzene-d4	152	12.883	12.883	0.000	93	868350	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.902	12.902	0.000	96	26932	0.2000	0.1872	
137 1,2,3-Trimethylbenzene	120	12.914	12.914	0.000	96	22684	0.2000	0.1940	
138 Benzyl chloride	126	12.987	12.981	0.006	97	3590	0.2000	0.1617	
139 n-Butylbenzene	92	13.133	13.133	0.000	97	21838	0.2000	0.1707	
140 1,2-Dichlorobenzene	146	13.164	13.158	0.006	98	25281	0.2000	0.1843	
142 1,2-Dibromo-3-Chloropropane	155	13.712	13.700	0.012	89	1388	0.2000	0.1643	
143 1,3,5-Trichlorobenzene	180	13.834	13.828	0.006	97	19123	0.2000	0.1747	
144 1,2,4-Trichlorobenzene	180	14.261	14.249	0.012	92	14205	0.2000	0.1613	
145 Hexachlorobutadiene	225	14.334	14.334	0.000	93	7733	0.2000	0.1802	
146 Naphthalene	128	14.438	14.426	0.012	97	27854	0.2000	0.1737	
147 1,2,3-Trichlorobenzene	180	14.578	14.572	0.006	97	12752	0.2000	0.1730	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
165 Isopropyl alcohol	45		0.000				ND	ND	

## QC Flag Legend

### Processing Flags

ND - Not Detected or Marked ND

### Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

## Reagents:

MSV\_LL\_#1\_826\_00081

Amount Added: 2.00

Units: uL

MSV\_LL\_#2\_826\_00093

Amount Added: 2.00

Units: uL

MSV\_LL\_GAS826\_00156

Amount Added: 2.00

Units: uL

MSV\_LLcentISS\_00007

Amount Added: 5.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X12.D

Injection Date: 19-Jun-2023 18:19:30

Instrument ID: 19930

Operator ID: KNK41612

Lims ID: IC std1

Worklist Smp#: 13

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

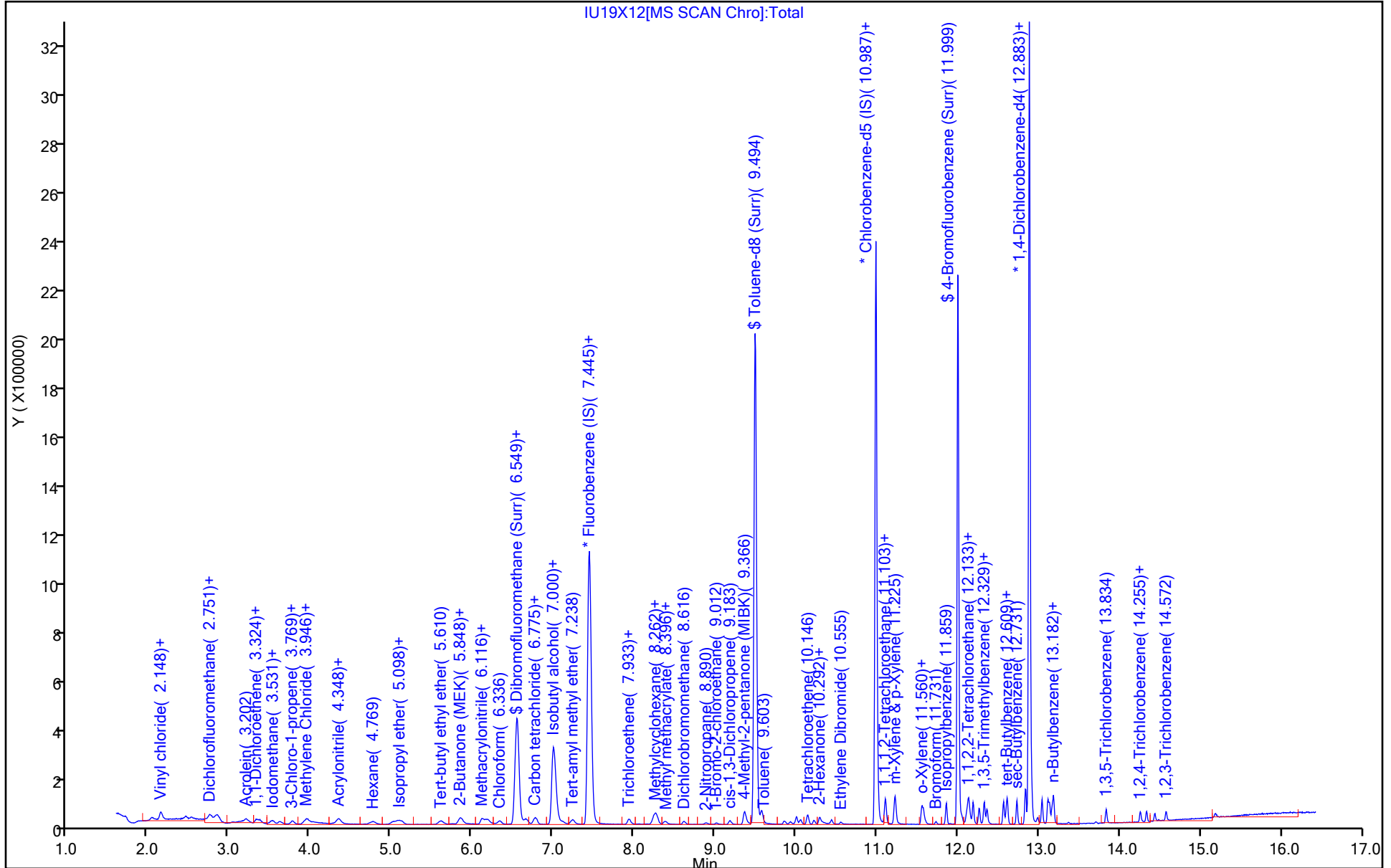
ALS Bottle#: 12

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

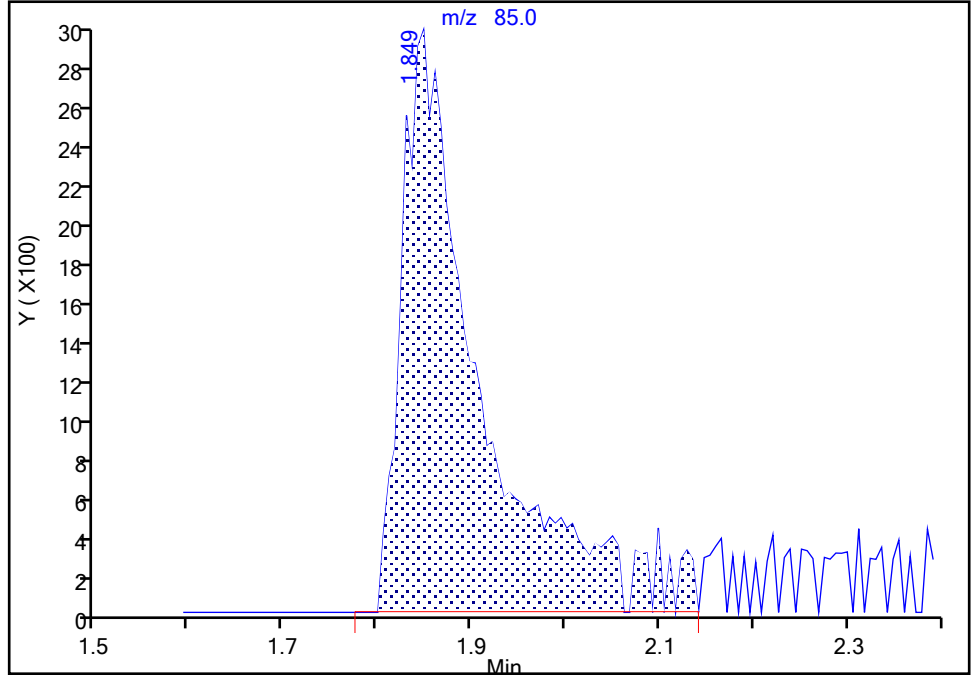
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Injection Date: 19-Jun-2023 18:19:30 Instrument ID: 19930  
Lims ID: IC std1  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

1 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

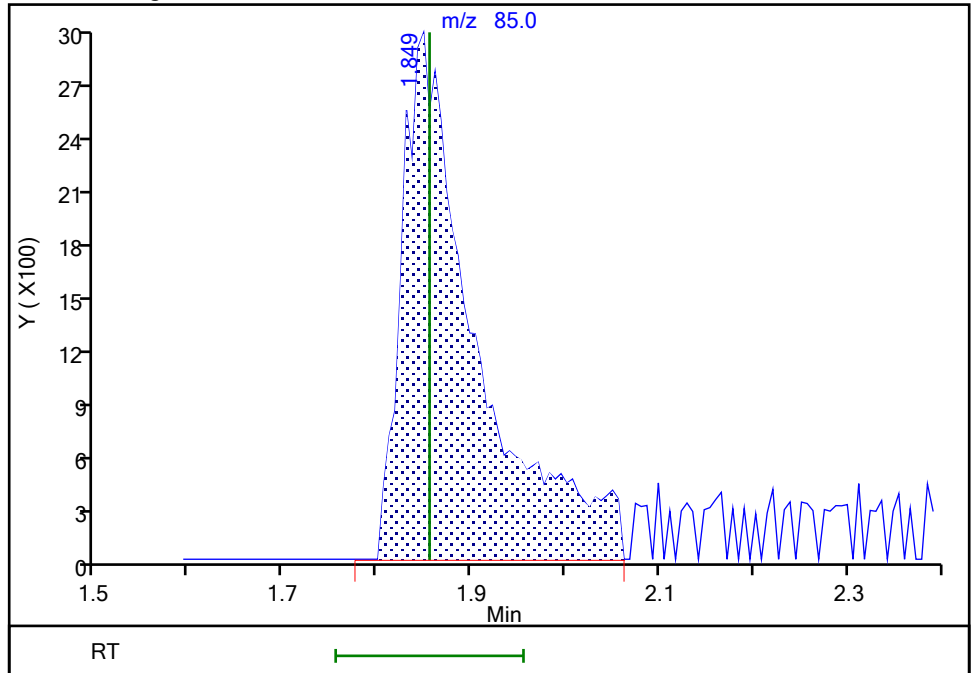
RT: 1.85  
Area: 17153  
Amount: 0.228743  
Amount Units: ug/l

Processing Integration Results



RT: 1.85  
Area: 16248  
Amount: 0.226029  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:45:13 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

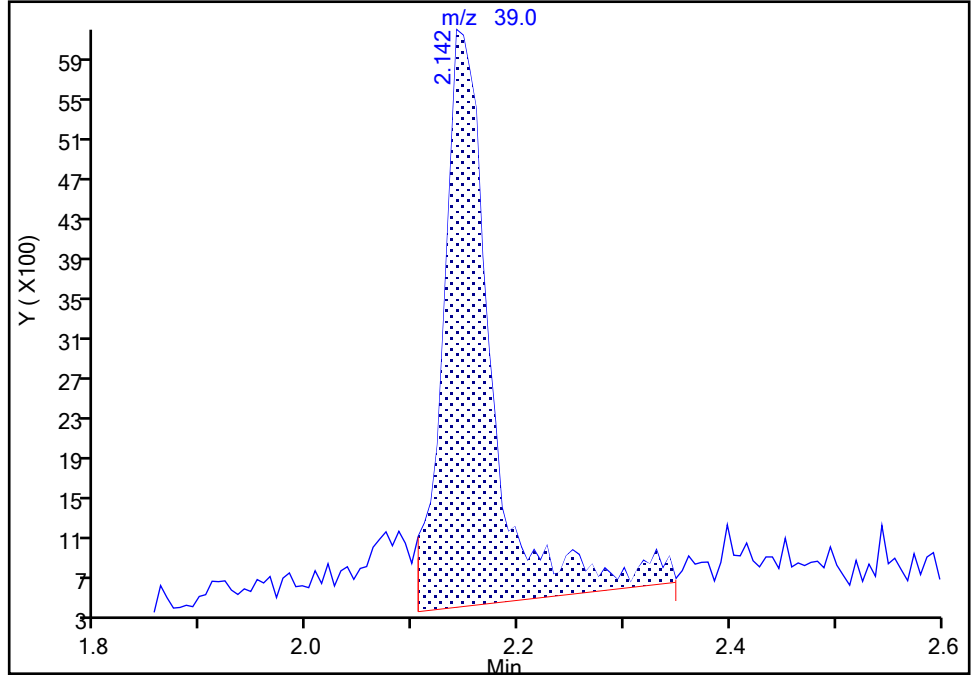
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Injection Date: 19-Jun-2023 18:19:30 Instrument ID: 19930  
Lims ID: IC std1  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

6 Butadiene, CAS: 106-99-0

Signal: 1

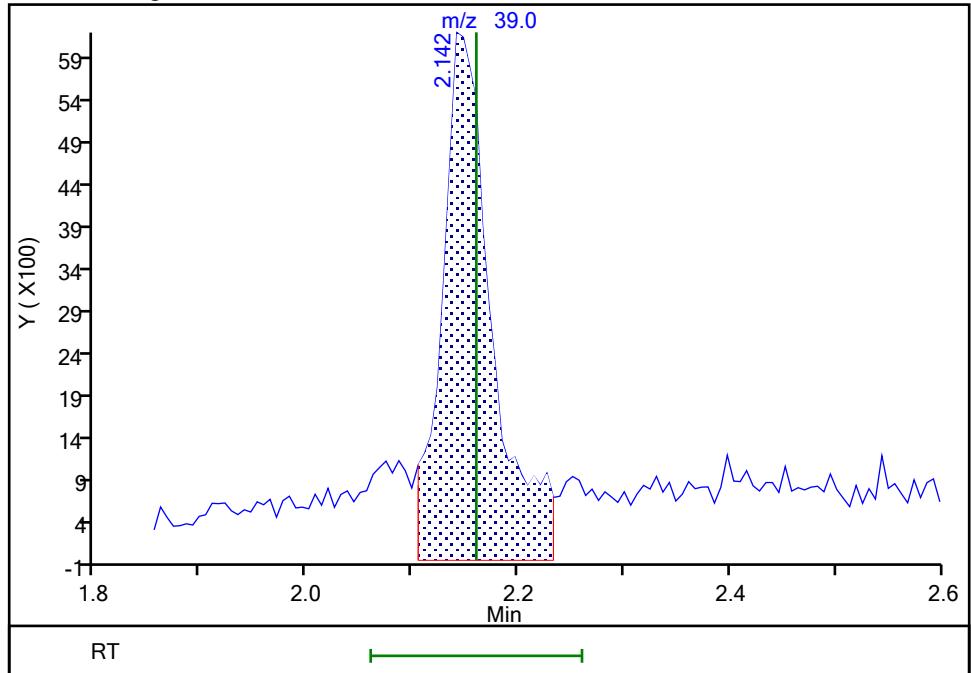
RT: 2.14  
Area: 18397  
Amount: 0.251107  
Amount Units: ug/l

Processing Integration Results



RT: 2.14  
Area: 20337  
Amount: 0.278153  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:45:27 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

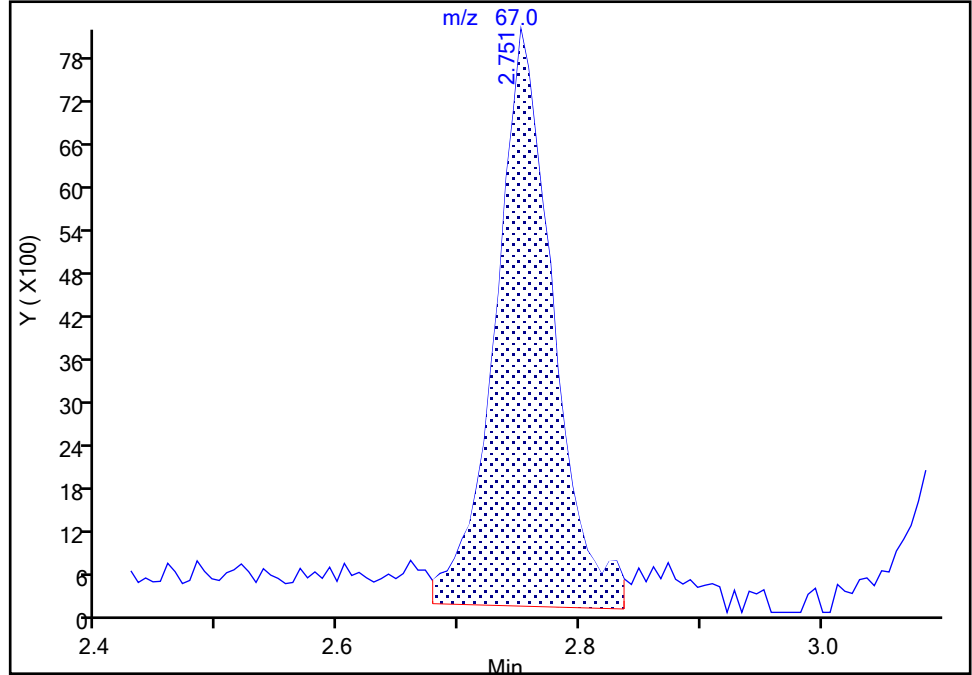
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Injection Date: 19-Jun-2023 18:19:30 Instrument ID: 19930  
Lims ID: IC std1  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

9 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

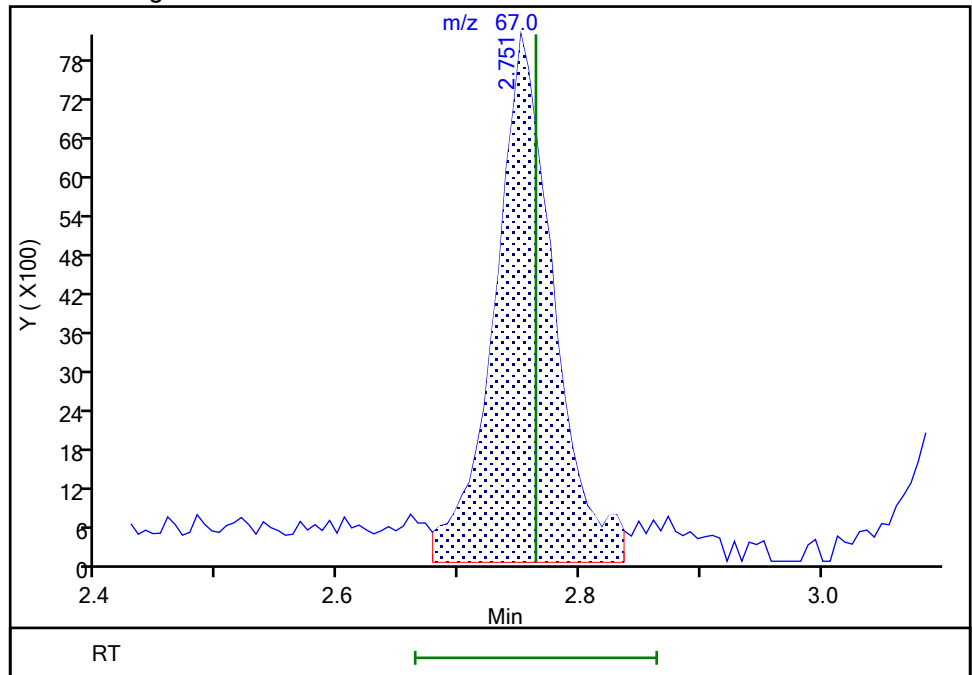
RT: 2.75  
Area: 26871  
Amount: 0.307709  
Amount Units: ug/l

Processing Integration Results



RT: 2.75  
Area: 27749  
Amount: 0.237817  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:46:06 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

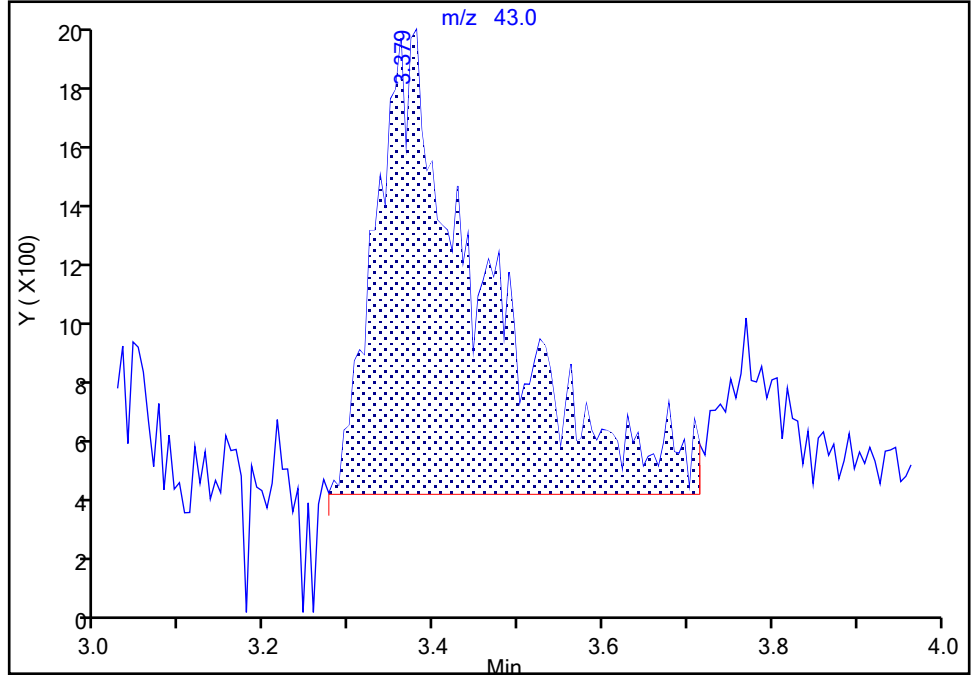
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Injection Date: 19-Jun-2023 18:19:30 Instrument ID: 19930  
Lims ID: IC std1  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

16 Acetone, CAS: 67-64-1

Signal: 1

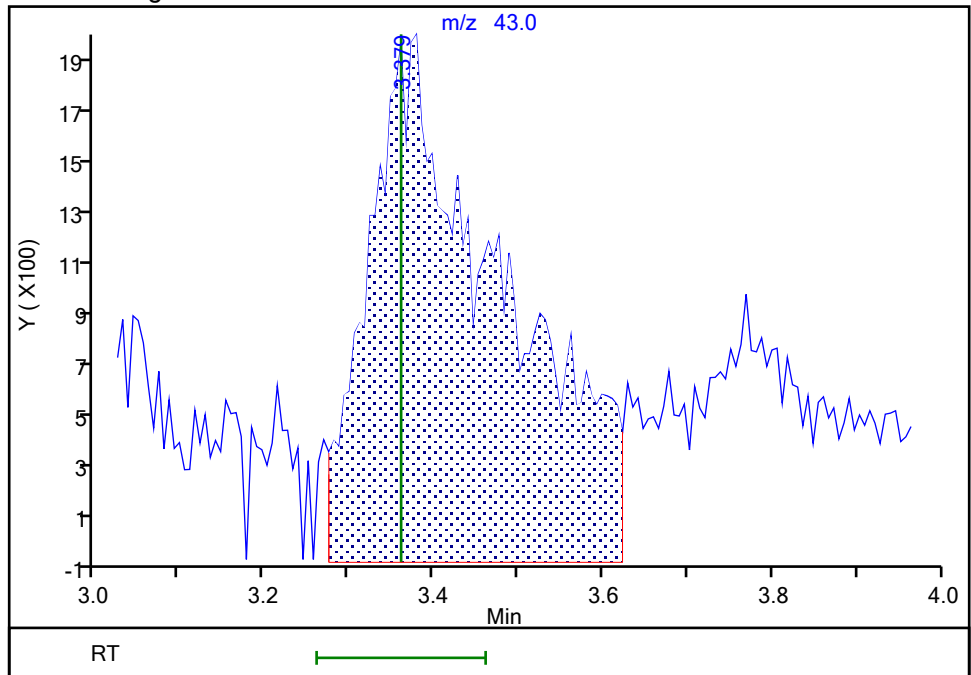
RT: 3.38  
Area: 14161  
Amount: 2.451386  
Amount Units: ug/l

Processing Integration Results



RT: 3.38  
Area: 22071  
Amount: 3.954818  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:47:22 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

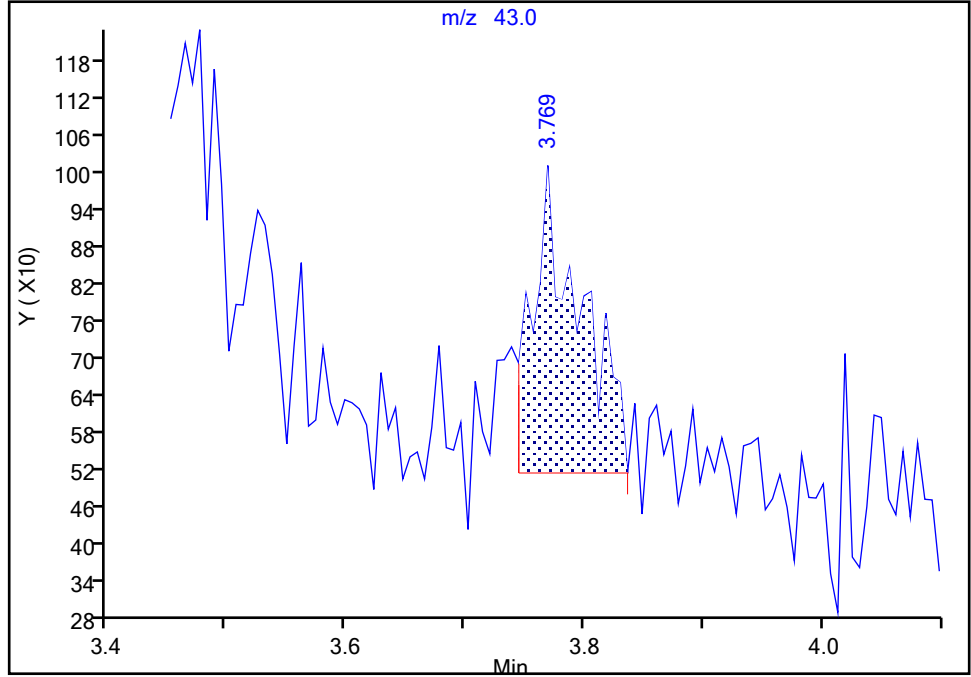
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Lims ID: IC std1  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

23 Methyl acetate, CAS: 79-20-9

Signal: 1

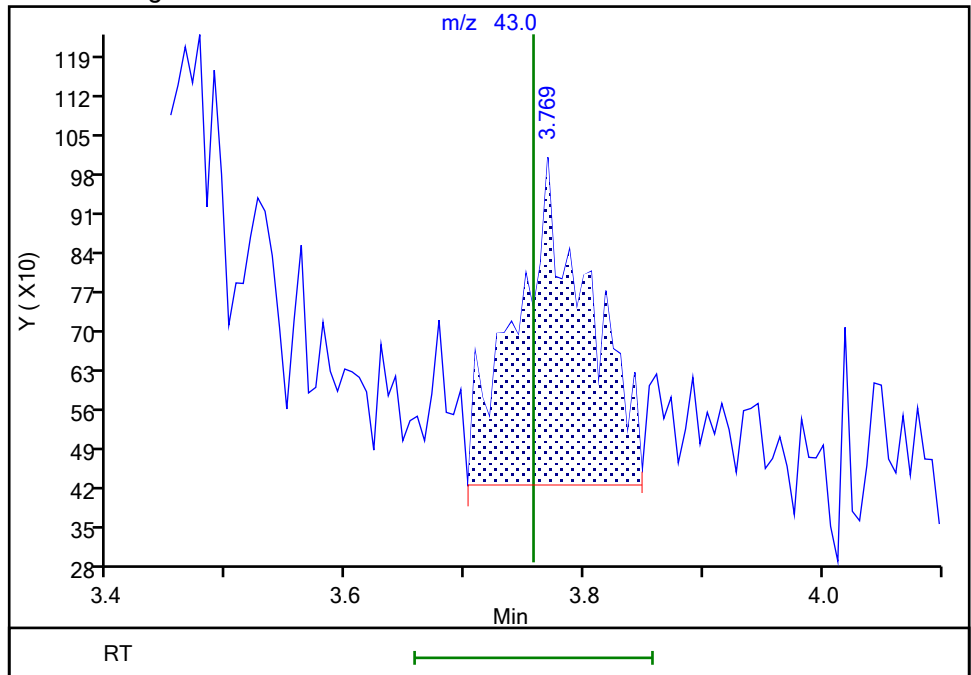
RT: 3.77  
Area: 1413  
Amount: 0.145020  
Amount Units: ug/l

Processing Integration Results



RT: 3.77  
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Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:47:43 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

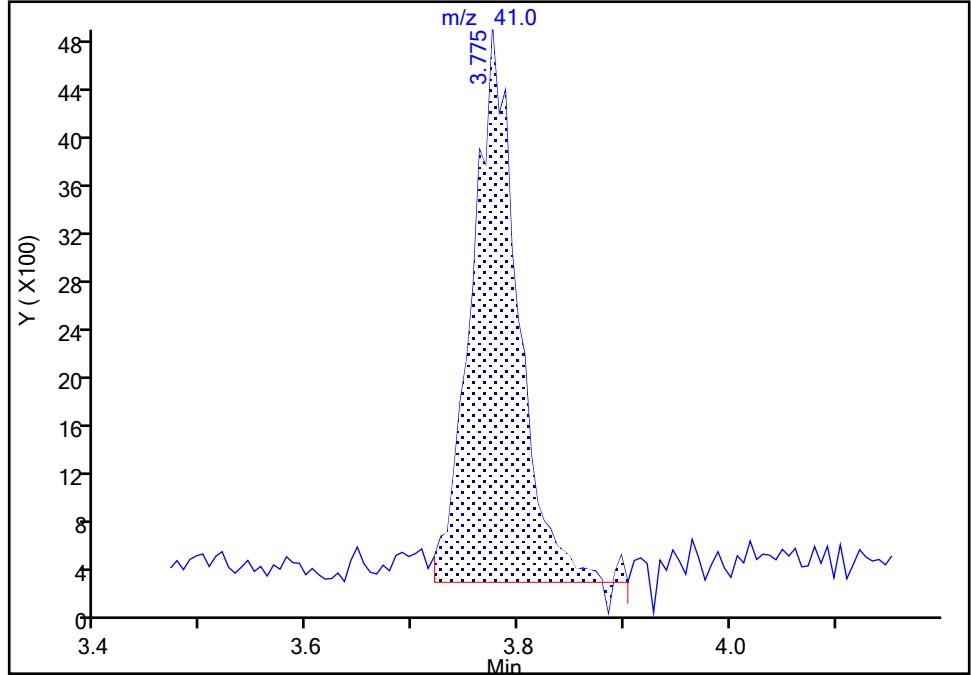
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Lims ID: IC std1  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

24 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

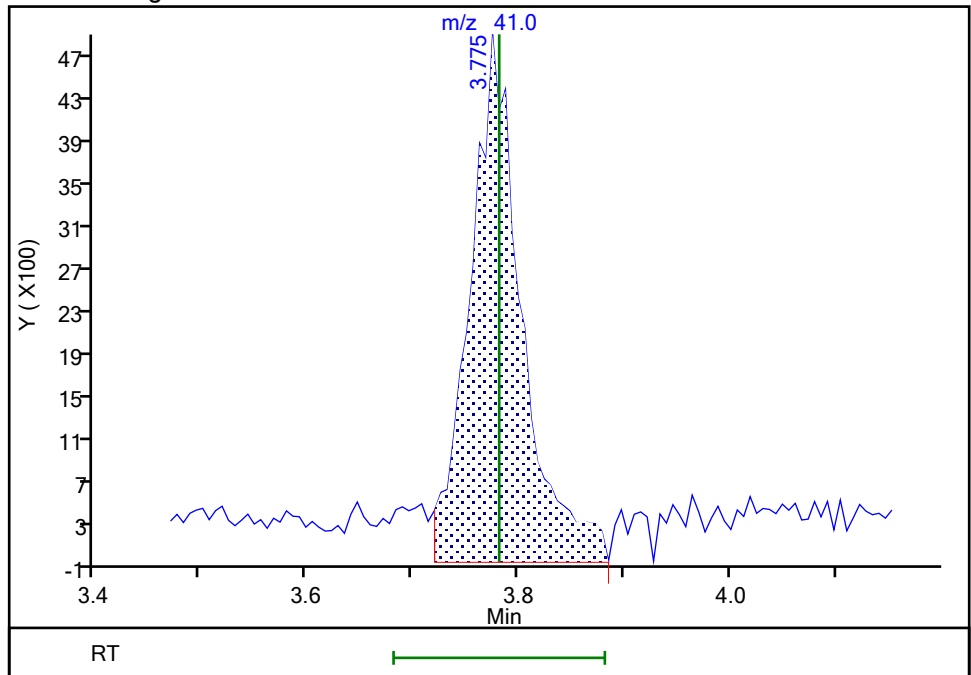
RT: 3.78  
Area: 14127  
Amount: 0.194132  
Amount Units: ug/l

Processing Integration Results



RT: 3.78  
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Amount: 0.221980  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:48:01 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

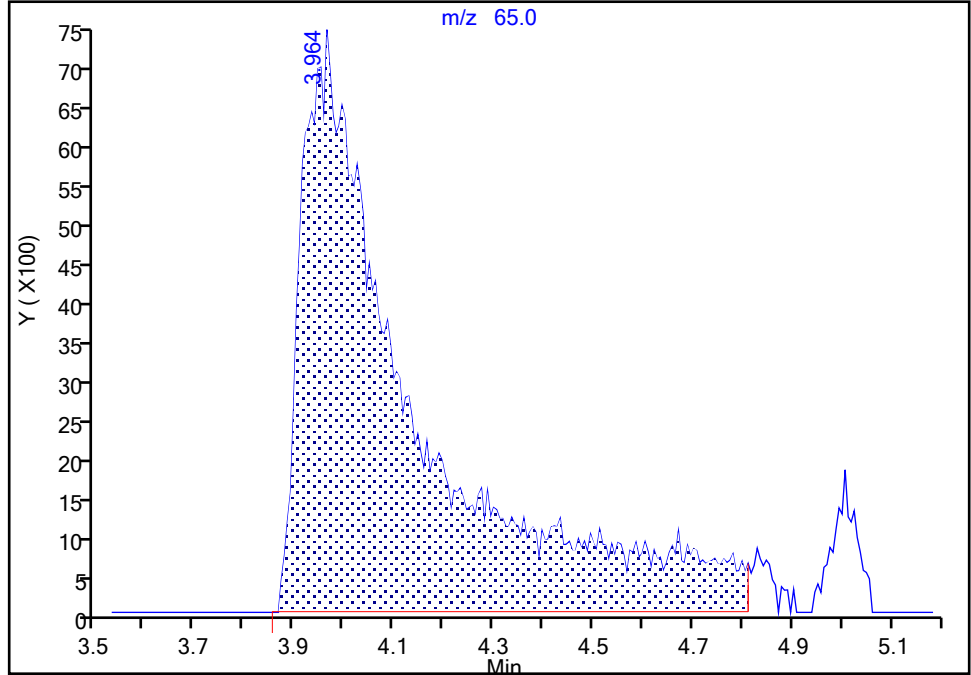
Eurofins Lancaster Laboratories Environment Testing, LLC

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Injection Date: 19-Jun-2023 18:19:30 Instrument ID: 19930  
Lims ID: IC std1  
Client ID:  
Operator ID: KNK41612 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

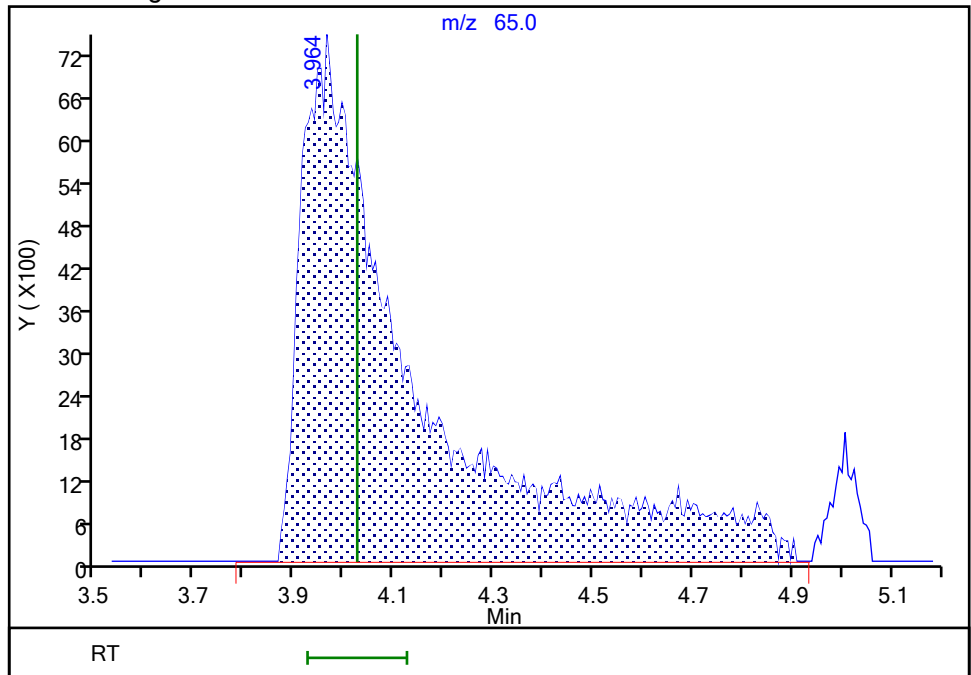
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Area: 114329  
Amount: 50.000000  
Amount Units: ug/l

Processing Integration Results



RT: 3.96  
Area: 116680  
Amount: 50.000000  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:48:08 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

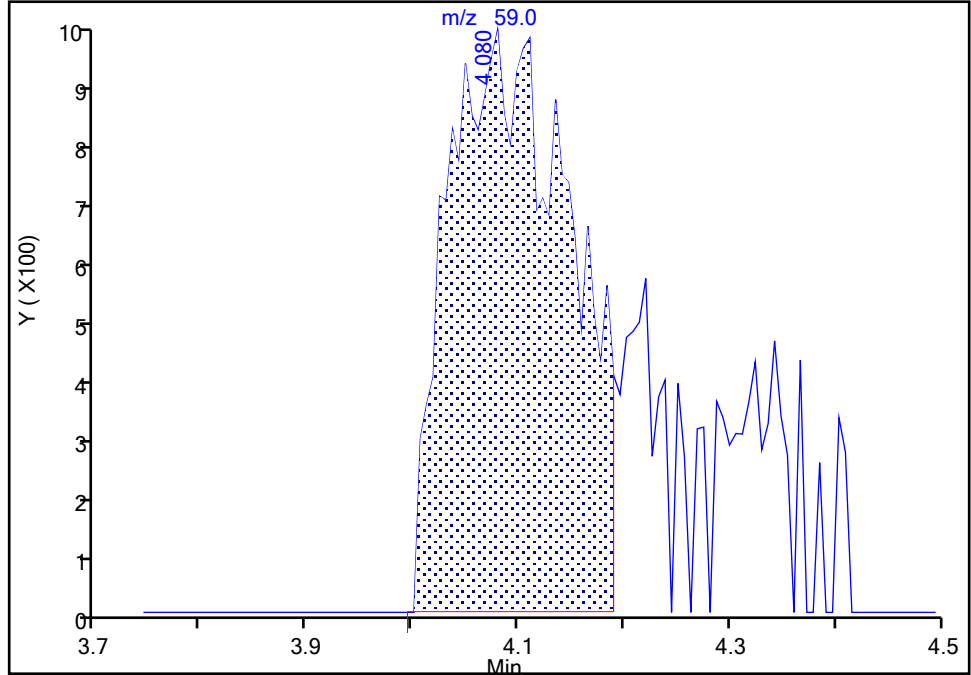
Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X12.D  
Injection Date: 19-Jun-2023 18:19:30 Instrument ID: 19930  
Lims ID: IC std1  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

27 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

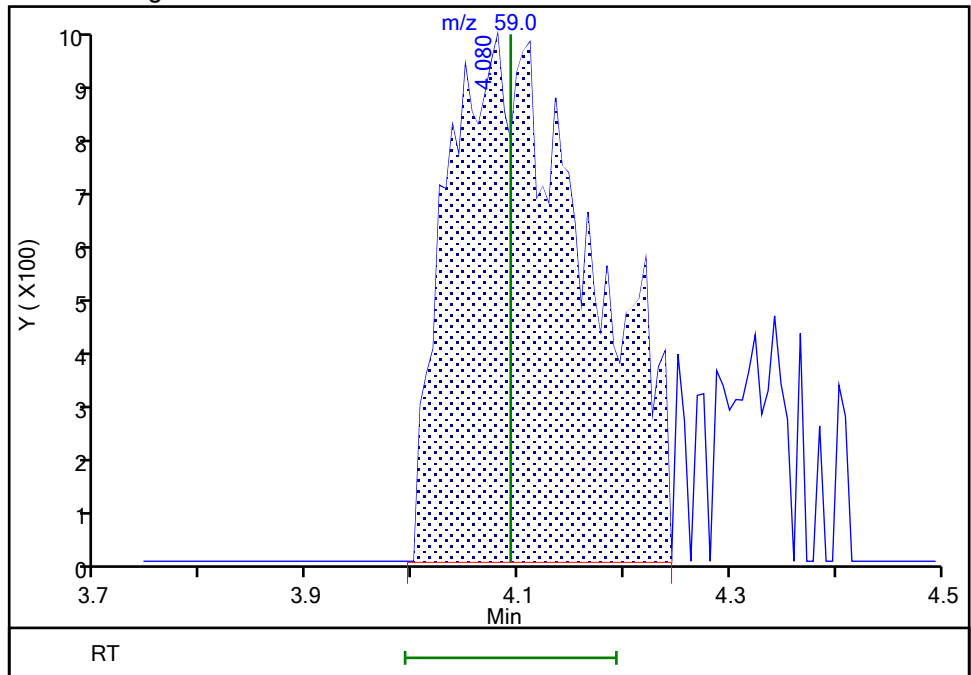
RT: 4.08  
Area: 8116  
Amount: 4.003590  
Amount Units: ug/l

Processing Integration Results



RT: 4.08  
Area: 9373  
Amount: 4.221747  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:48:15 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins Lancaster Laboratories Environment Testing, LLC

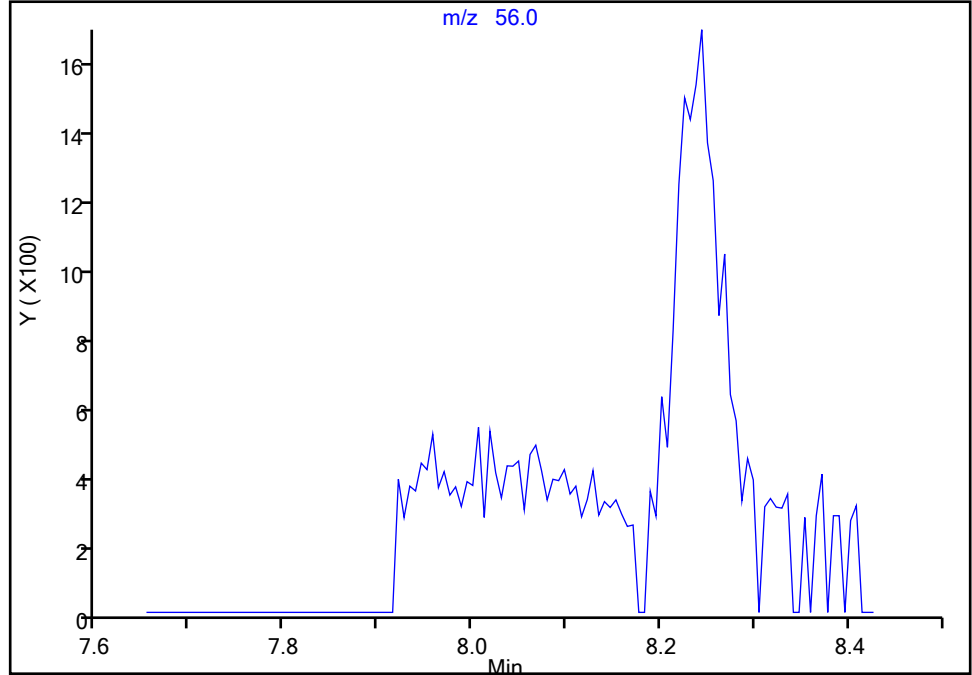
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Injection Date: 19-Jun-2023 18:19:30 Instrument ID: 19930  
Lims ID: IC std1  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

63 n-Butanol, CAS: 71-36-3

Signal: 1

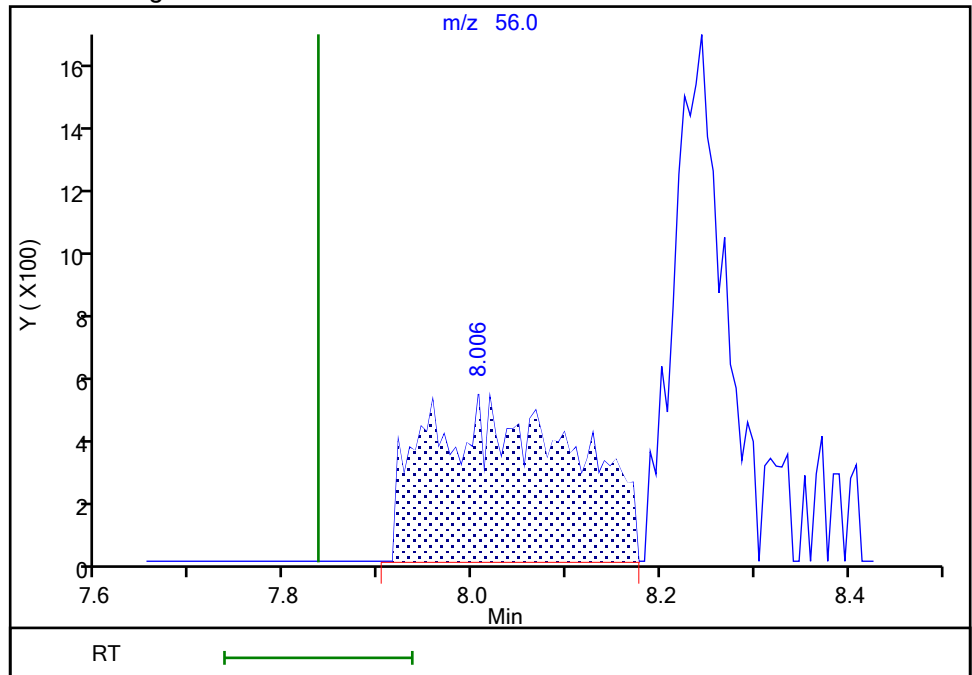
Not Detected  
Expected RT: 7.84

Processing Integration Results



Manual Integration Results

RT: 8.01  
Area: 5699  
Amount: 9.407838  
Amount Units: ug/l



Reviewer: DVW2, 21-Jun-2023 07:48:49 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

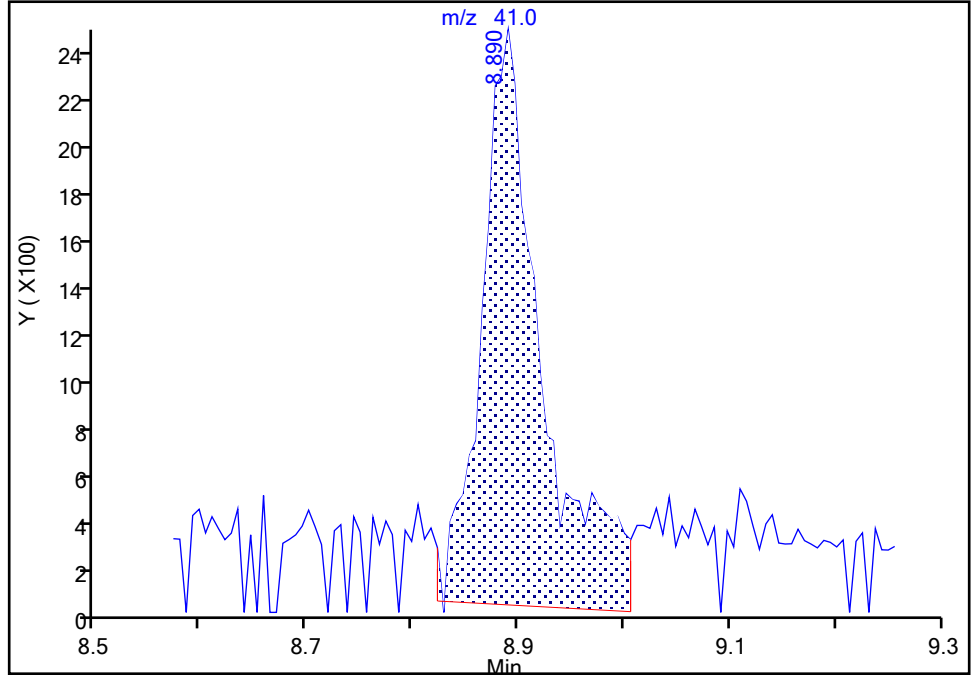
Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X12.D  
Injection Date: 19-Jun-2023 18:19:30 Instrument ID: 19930  
Lims ID: IC std1  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

72 2-Nitropropane, CAS: 79-46-9

Signal: 1

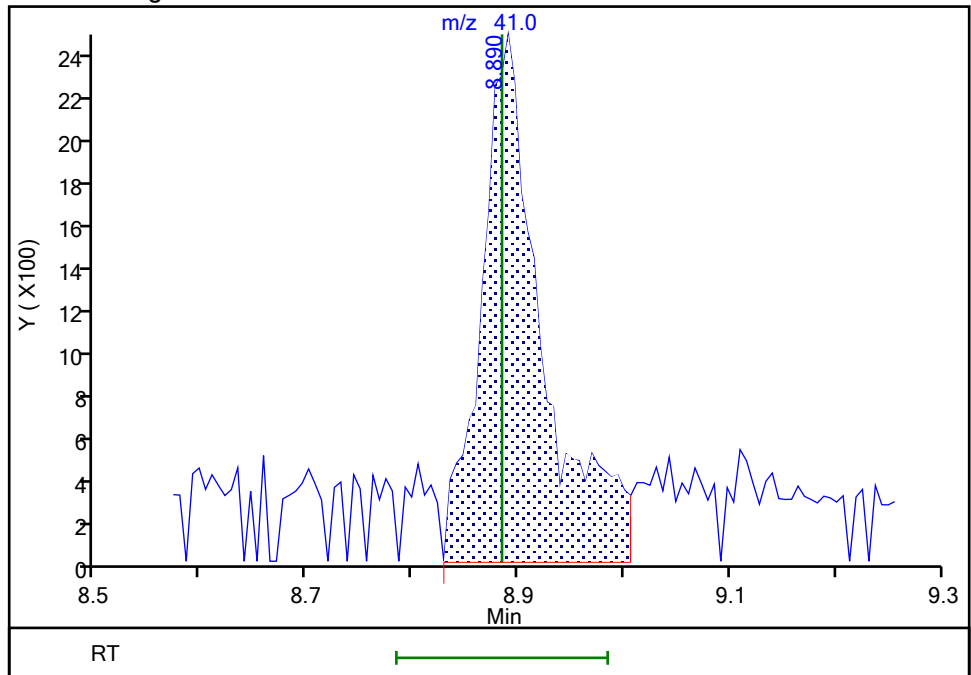
RT: 8.89  
Area: 9510  
Amount: 1.267713  
Amount Units: ug/l

Processing Integration Results



RT: 8.89  
Area: 9668  
Amount: 1.336820  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:49:40 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

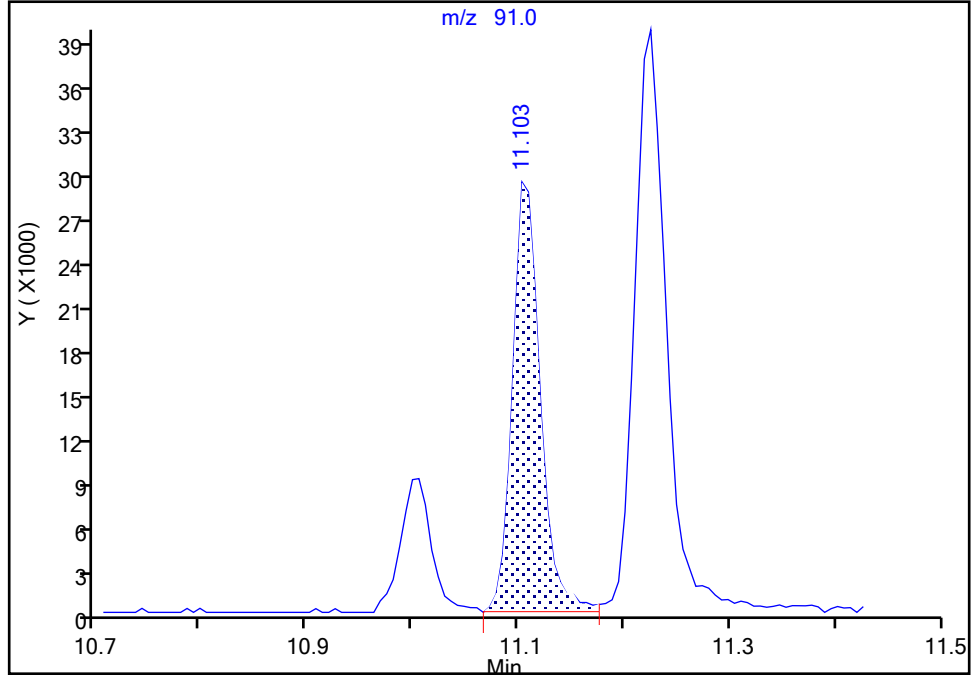
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Injection Date: 19-Jun-2023 18:19:30 Instrument ID: 19930  
Lims ID: IC std1  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

108 1-Chlorohexane, CAS: 544-10-5

Signal: 1

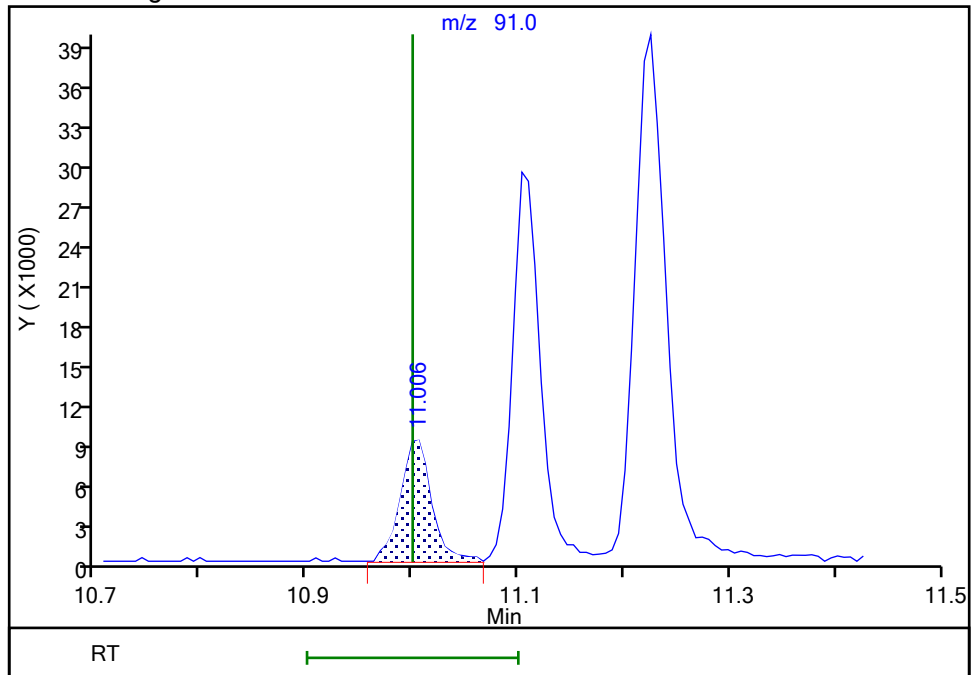
RT: 11.10  
Area: 53589  
Amount: 0.191518  
Amount Units: ug/l

Processing Integration Results



RT: 11.01  
Area: 18652  
Amount: 0.223351  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 22-Jun-2023 07:47:06 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

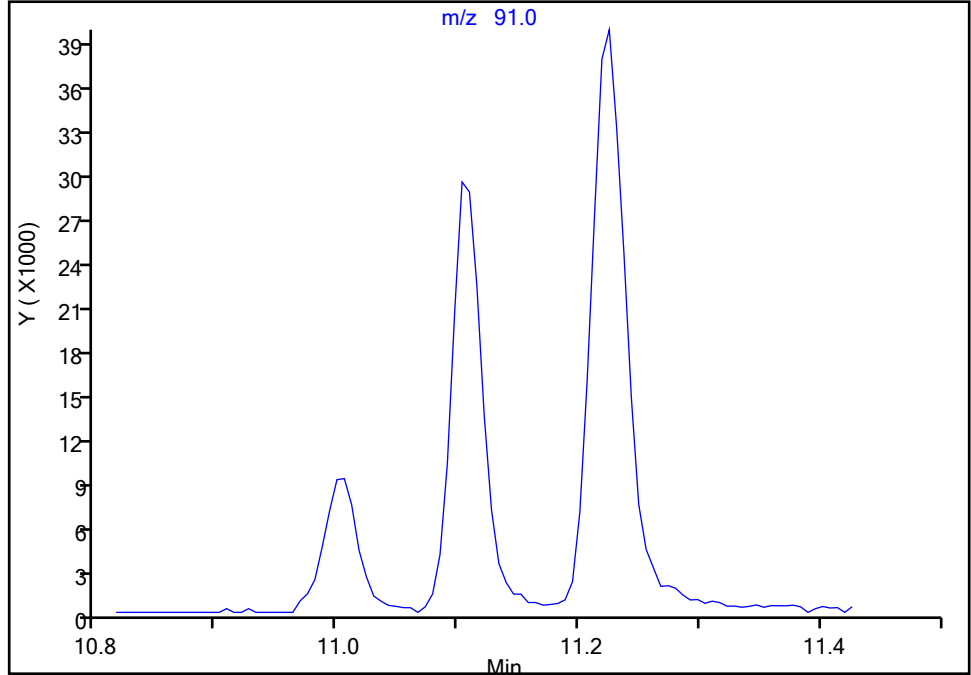
Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X12.D  
Injection Date: 19-Jun-2023 18:19:30 Instrument ID: 19930  
Lims ID: IC std1  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

112 Ethylbenzene, CAS: 100-41-4

Signal: 1

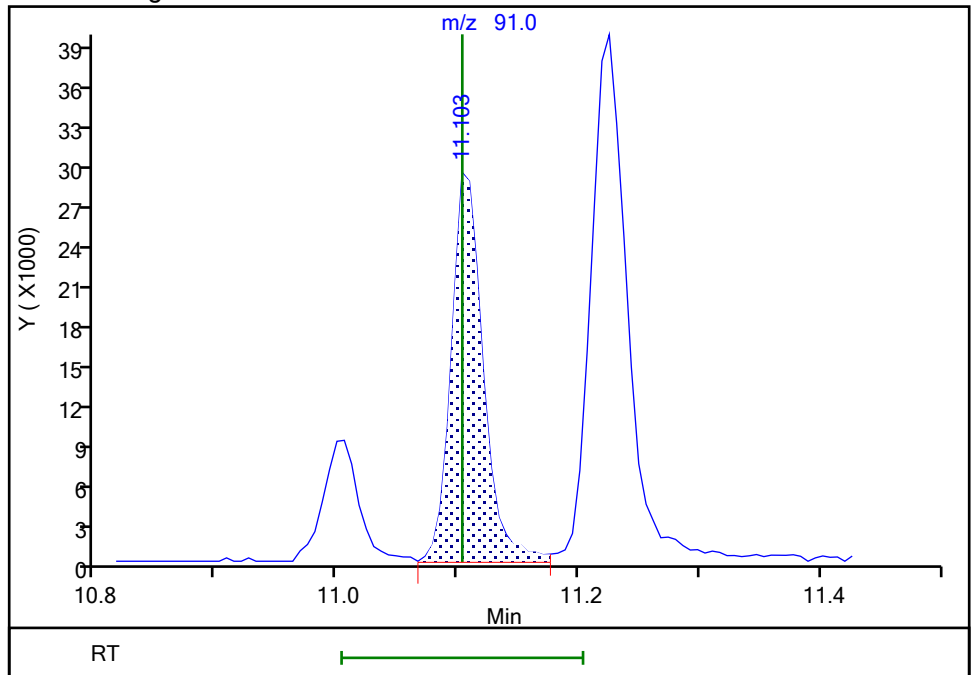
Not Detected  
Expected RT: 11.10

Processing Integration Results



Manual Integration Results

RT: 11.10  
Area: 53589  
Amount: 0.191630  
Amount Units: ug/l



Reviewer: DVW2, 21-Jun-2023 15:33:35 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

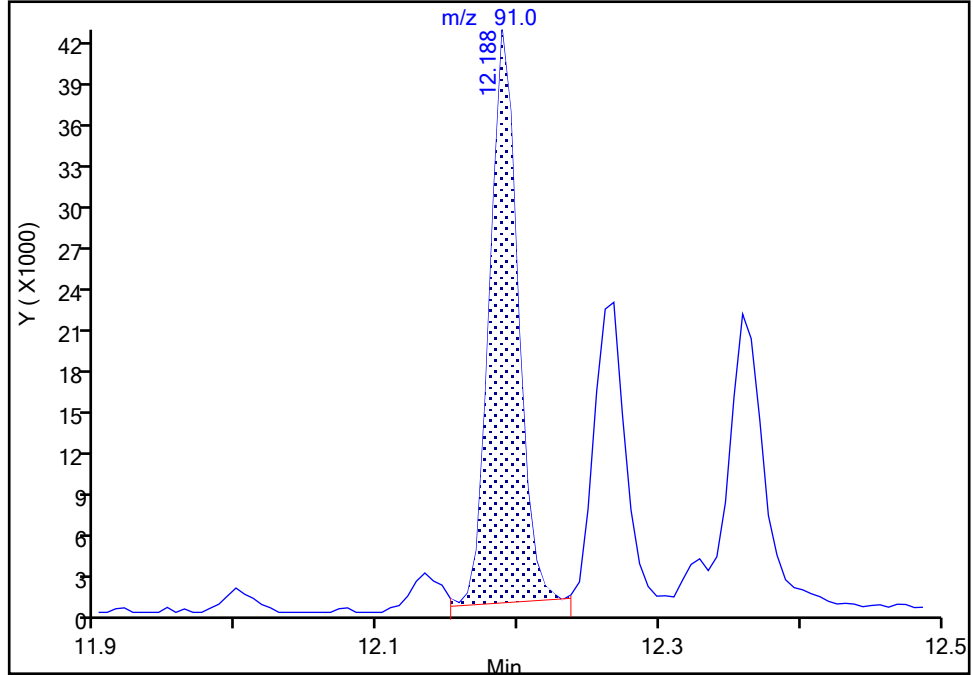
Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X12.D  
Injection Date: 19-Jun-2023 18:19:30 Instrument ID: 19930  
Lims ID: IC std1  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

125 N-Propylbenzene, CAS: 103-65-1

Signal: 1

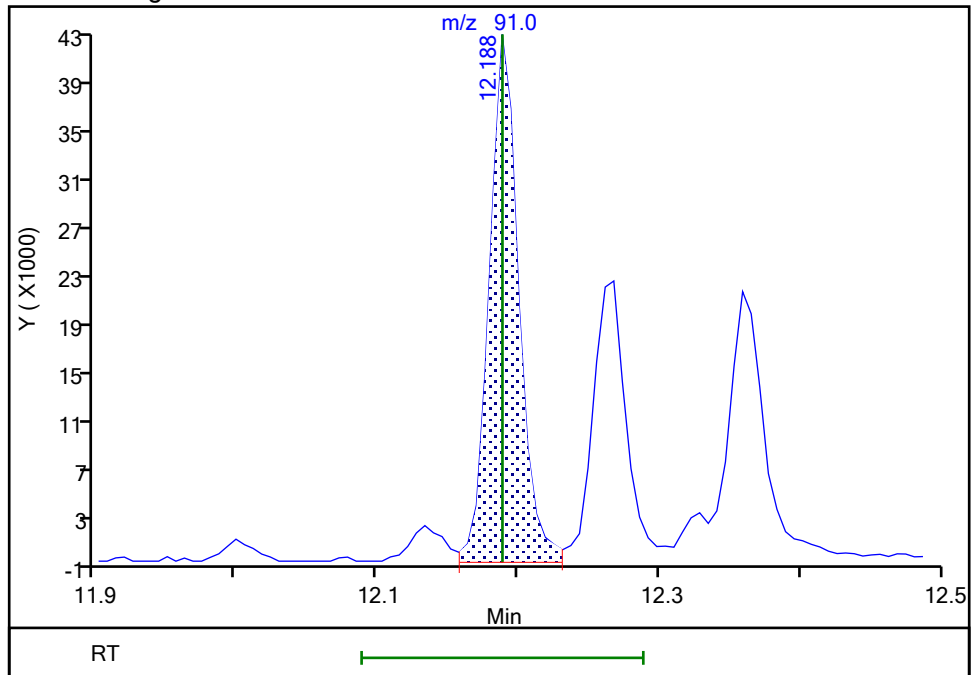
RT: 12.19  
Area: 58930  
Amount: 0.204912  
Amount Units: ug/l

Processing Integration Results



RT: 12.19  
Area: 62107  
Amount: 0.187851  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:50:50 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

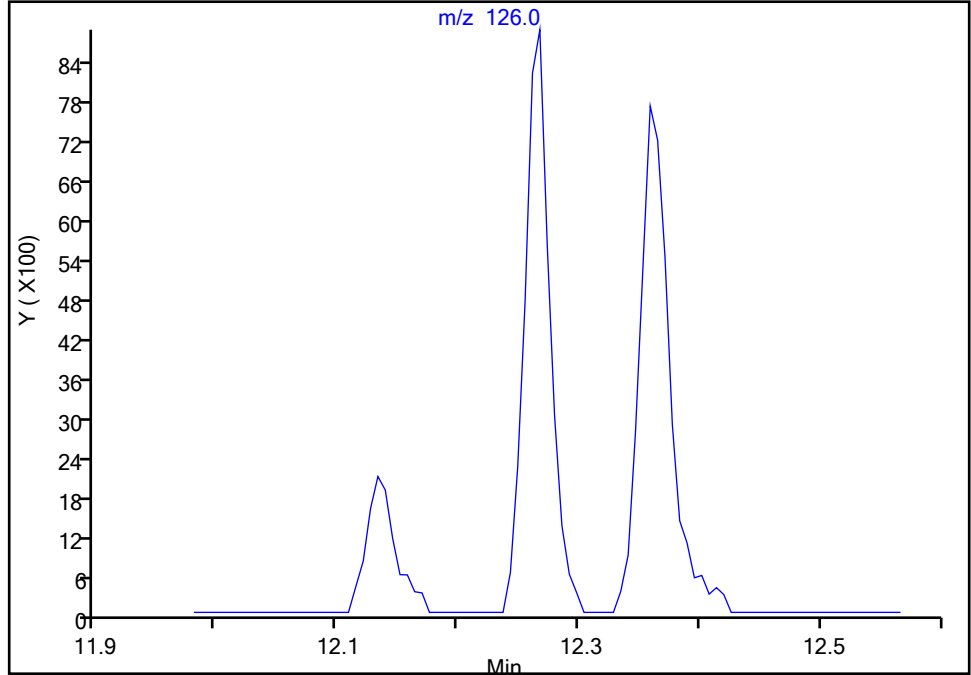
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Injection Date: 19-Jun-2023 18:19:30 Instrument ID: 19930  
Lims ID: IC std1  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 12 Worklist Smp#: 13  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

126 2-Chlorotoluene, CAS: 95-49-8

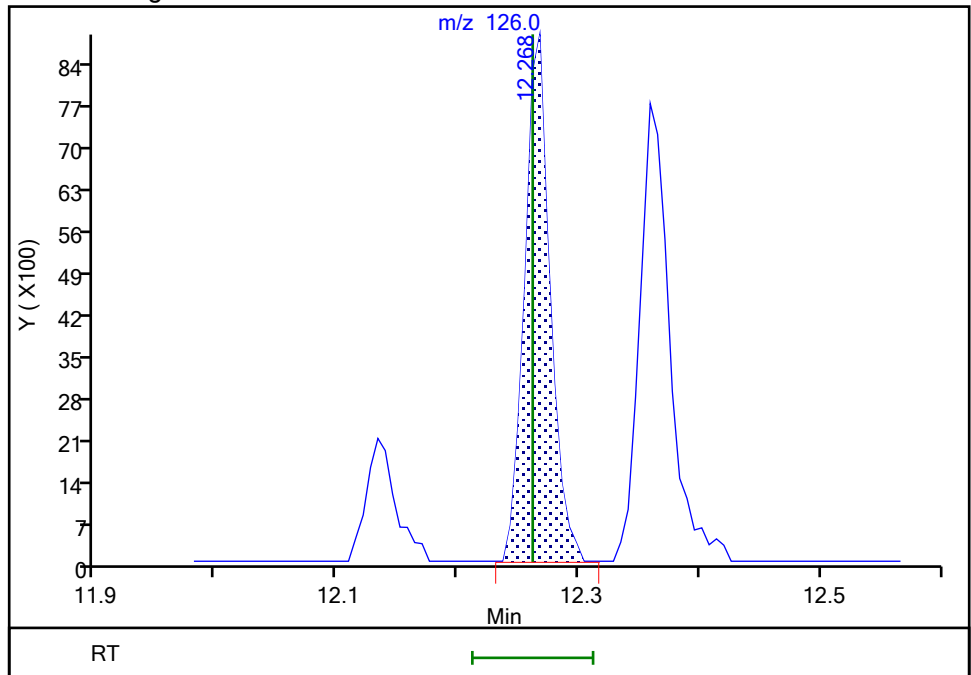
Signal: 1

Not Detected  
Expected RT: 12.26

Processing Integration Results



Manual Integration Results



RT: 12.27  
Area: 12989  
Amount: 0.179881  
Amount Units: ug/l

Reviewer: DVW2, 21-Jun-2023 15:33:41 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

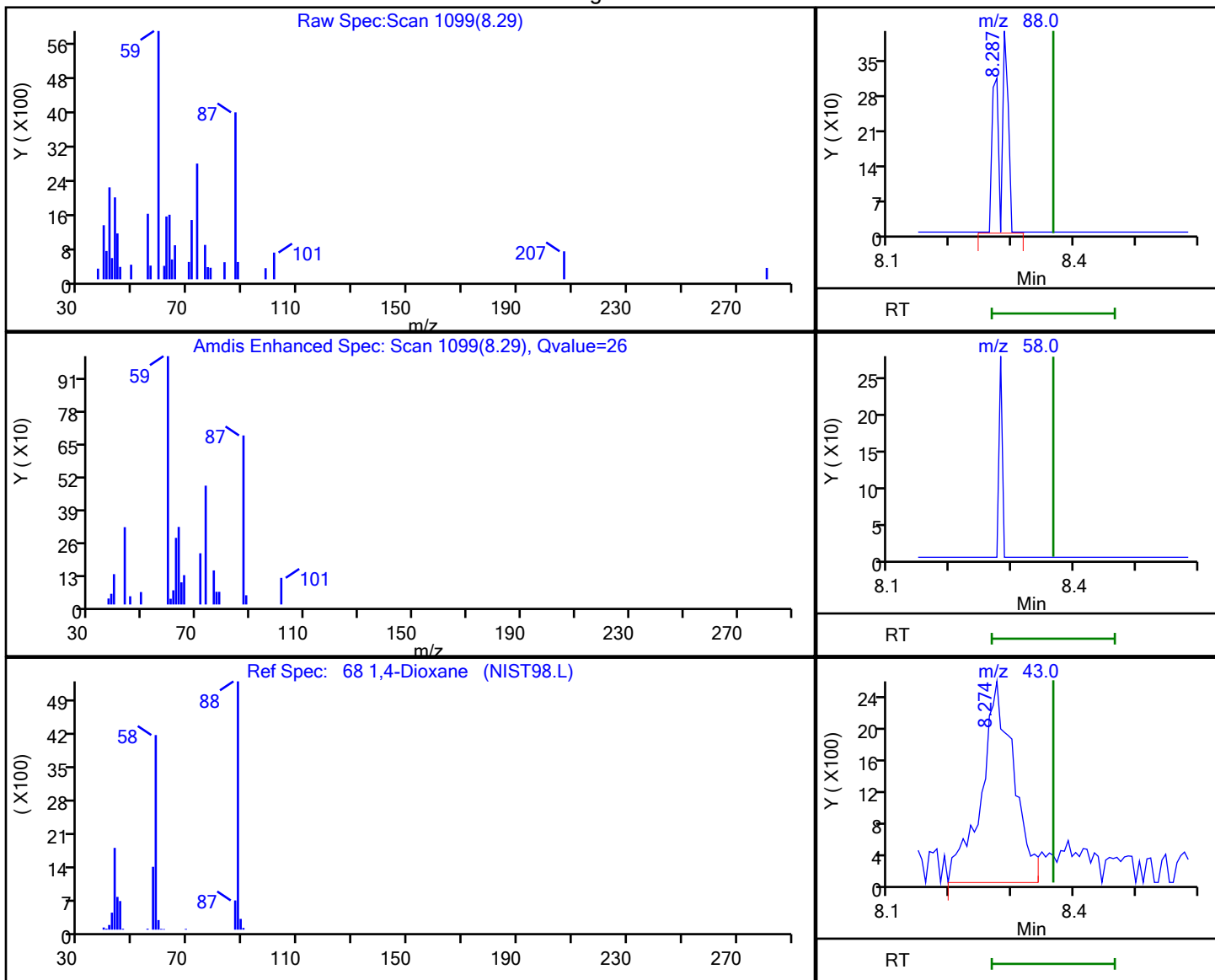
Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X12.D  
 Injection Date: 19-Jun-2023 18:19:30 Instrument ID: 19930  
 Lims ID: IC std1  
 Client ID:  
 Operator ID: KNK41612 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 i.d.) Detector: MS Quad

68 1,4-Dioxane, CAS: 123-91-1

Processing Results



RT	Mass	Response	Amount
8.29	88.00	468	4.950139
8.37	58.00	0	
8.27	43.00	9532	

Reviewer: DVW2, 21-Jun-2023 07:49:15 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X13.D  
 Lims ID: IC std2  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 19-Jun-2023 18:40:30 ALS Bottle#: 13 Worklist Smp#: 14  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0086929-014  
 Misc. Info.: LG 0.5  
 Operator ID: KNK41612 Instrument ID: 19930  
 Sublist: chrom-8260 25ml HP31\*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 27-Jun-2023 12:30:09 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D

Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1687

First Level Reviewer: DVW2

Date: 20-Jun-2023 10:43:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.861	1.855	0.006	99	34723	0.5000	0.4944	M
4 Chloromethane	50	2.038	2.050	-0.012	99	38309	0.5000	0.5369	
5 Vinyl chloride	62	2.148	2.160	-0.012	71	34833	0.5000	0.5103	
6 Butadiene	39	2.154	2.160	-0.006	92	40081	0.5000	0.5611	M
7 Bromomethane	94	2.459	2.465	-0.007	90	29277	0.5000	0.5494	
8 Chloroethane	64	2.538	2.538	0.000	99	22289	0.5000	0.5457	
9 Dichlorofluoromethane	67	2.757	2.764	-0.007	97	62910	0.5000	0.5519	M
10 Trichlorofluoromethane	101	2.824	2.824	0.000	94	43553	0.5000	0.5011	
11 Ethyl ether	59	3.038	3.050	-0.012	88	18739	0.5001	0.5223	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.111	3.142	-0.031	89	32387	0.5000	0.5225	
14 Acrolein	56	3.202	3.209	-0.007	99	142596	25.0	24.9	
15 1,1-Dichloroethene	96	3.330	3.337	-0.007	97	24450	0.5000	0.5198	
16 Acetone	43	3.373	3.361	0.012	97	35188	5.00	5.56	M
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.373	3.385	-0.012	89	24980	0.5000	0.5003	
18 Iodomethane	142	3.513	3.526	-0.013	99	51051	0.5000	0.5161	
19 Ethyl bromide	108	3.538	3.550	-0.012	98	21495	0.4995	0.5221	
20 Carbon disulfide	76	3.617	3.629	-0.012	99	66169	0.5000	0.5187	
23 Methyl acetate	43	3.769	3.757	0.012	24	8217	0.5000	0.5258	M
24 3-Chloro-1-propene	41	3.775	3.782	-0.007	91	37534	0.5000	0.5134	
25 Methylene Chloride	84	3.946	3.958	-0.012	87	26705	0.5000	0.5377	
* 26 t-Butyl alcohol-d10 (IS)	65	3.983	4.025	-0.042	92	132398	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.092	4.093	-0.001	95	27747	10.0	11.0	
28 Acrylonitrile	53	4.300	4.282	0.018	91	9924	1.25	1.29	
29 Methyl tert-butyl ether	73	4.330	4.342	-0.012	94	67798	0.5000	0.5252	
30 trans-1,2-Dichloroethene	96	4.354	4.355	-0.001	97	27769	0.5000	0.5304	
31 Hexane	57	4.775	4.781	-0.006	95	33162	0.5000	0.4833	
32 1,1-Dichloroethane	63	5.013	5.013	0.000	96	46514	0.5000	0.5186	
35 Isopropyl ether	45	5.068	5.074	-0.006	93	77884	0.5000	0.5288	
36 2-Chloro-1,3-butadiene	53	5.123	5.123	0.000	90	38162	0.5000	0.5089	
37 Tert-butyl ethyl ether	59	5.604	5.623	-0.019	97	73536	0.5000	0.5227	



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	5.824	5.812	0.012	99	58914	5.00	4.83	
39 cis-1,2-Dichloroethene	96	5.854	5.854	0.000	79	31280	0.5000	0.5371	
40 2,2-Dichloropropane	77	5.860	5.867	-0.007	73	41944	0.5000	0.5190	
43 Propionitrile	54	5.909	5.891	0.018	95	31714	10.0	9.83	
45 Methacrylonitrile	67	6.116	6.110	0.006	91	63442	5.00	4.98	
S 41 1,2-Dichloroethene, Total	100				0			1.07	
46 Chlorobromomethane	128	6.183	6.190	-0.007	88	14176	0.5000	0.5350	
47 Tetrahydrofuran	71	6.208	6.196	0.012	78	10811	2.50	2.69	
48 Chloroform	83	6.342	6.342	0.000	93	48008	0.5000	0.5182	
\$ 49 Dibromofluoromethane (Surr)	113	6.549	6.555	-0.006	95	452360	10.0	10.0	
50 1,1,1-Trichloroethane	97	6.567	6.568	-0.001	96	44606	0.5000	0.5156	
51 Cyclohexane	56	6.659	6.671	-0.012	89	40898	0.5000	0.4988	
54 Carbon tetrachloride	117	6.775	6.781	-0.006	96	38435	0.5000	0.4987	
53 1,1-Dichloropropene	75	6.775	6.781	-0.006	95	35524	0.5000	0.5157	
55 Isobutyl alcohol	41	6.952	6.940	0.012	90	24811	25.0	27.7	M
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.006	7.013	-0.007	65	89414	10.0	10.0	
57 Benzene	78	7.037	7.043	-0.006	92	107059	0.5000	0.5169	
58 1,2-Dichloroethane	62	7.110	7.116	-0.006	96	29283	0.5000	0.5216	
60 Tert-amyl methyl ether	73	7.232	7.244	-0.012	98	68913	0.5000	0.5300	
* 61 Fluorobenzene (IS)	96	7.445	7.445	0.000	99	1753956	10.0	10.0	
62 n-Heptane	43	7.464	7.470	-0.006	37	30853	0.5000	0.4683	
63 n-Butanol	56	7.866	7.836	0.030	87	25327	43.8	36.8	
64 Trichloroethene	95	7.933	7.933	0.000	96	30455	0.5000	0.5286	
65 Methylcyclohexane	83	8.244	8.244	0.000	90	45980	0.5000	0.4940	
66 1,2-Dichloropropane	63	8.268	8.269	-0.001	95	26965	0.5000	0.5266	
67 Methyl methacrylate	69	8.366	8.354	0.012	76	11677	0.5000	0.4653	
68 1,4-Dioxane	88	8.372	8.366	0.006	31	1097	25.0	7.51	
69 Dibromomethane	93	8.378	8.378	0.000	90	13482	0.5000	0.5253	
71 Dichlorobromomethane	83	8.610	8.616	-0.006	99	34054	0.5000	0.5117	
72 2-Nitropropane	41	8.884	8.884	0.000	96	19831	2.50	2.42	
75 1-Bromo-2-chloroethane	63	9.018	9.012	0.006	98	26799	0.5000	0.5133	
76 cis-1,3-Dichloropropene	75	9.183	9.177	0.006	96	40532	0.5000	0.5075	
77 4-Methyl-2-pentanone (MIBK)	43	9.360	9.360	0.000	95	162172	5.00	4.95	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.500	-0.006	93	1785023	10.0	10.1	
79 Toluene	92	9.579	9.579	0.000	99	73122	0.5000	0.5221	
97 trans-1,3-Dichloropropene	75	9.847	9.848	-0.001	91	34150	0.5000	0.5165	
99 Ethyl methacrylate	69	9.920	9.915	0.005	90	28243	0.5000	0.5167	
100 1,1,2-Trichloroethane	97	10.055	10.055	0.000	90	21292	0.5000	0.5387	
S 98 1,3-Dichloropropene, Total	100				0			1.02	
101 Tetrachloroethene	166	10.146	10.146	0.000	98	37751	0.5000	0.5167	
102 1,3-Dichloropropane	76	10.219	10.219	0.000	88	32993	0.5000	0.5274	
103 2-Hexanone	43	10.280	10.274	0.006	96	109004	5.00	4.70	
105 Chlorodibromomethane	129	10.439	10.439	0.000	91	25969	0.5000	0.5046	
106 Ethylene Dibromide	107	10.554	10.549	0.005	98	18815	0.5000	0.5045	
* 107 Chlorobenzene-d5 (IS)	117	10.987	10.987	0.000	84	1381168	10.0	10.0	
108 1-Chlorohexane	91	11.006	11.000	0.006	95	42354	0.5000	0.5196	a
109 Chlorobenzene	112	11.018	11.018	0.000	97	85778	0.5000	0.5234	
111 1,1,1,2-Tetrachloroethane	131	11.097	11.097	0.000	95	30129	0.5000	0.5159	
112 Ethylbenzene	91	11.103	11.103	0.000	98	143495	0.5000	0.5257	a
113 m-Xylene & p-Xylene	106	11.225	11.219	0.006	93	115867	1.00	1.05	
S 110 Xylenes, Total	106				0			1.57	
114 o-Xylene	106	11.554	11.554	0.000	95	57211	0.5000	0.5243	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Styrene	104	11.573	11.567	0.006	94	90765	0.5000	0.5170	
116 Bromoform	173	11.731	11.725	0.006	97	16371	0.5000	0.4904	
117 Isopropylbenzene	105	11.859	11.859	0.000	95	146958	0.5000	0.5193	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.999	12.000	-0.001	96	670589	10.0	10.0	
121 1,1,2,2-Tetrachloroethane	83	12.103	12.103	0.000	94	26384	0.5000	0.5309	
122 Bromobenzene	156	12.115	12.115	0.000	89	37870	0.5000	0.5273	
123 trans-1,4-Dichloro-2-butene	53	12.133	12.128	0.005	94	60206	5.00	4.88	
124 1,2,3-Trichloropropane	110	12.152	12.146	0.006	79	7469	0.5000	0.5354	
125 N-Propylbenzene	91	12.188	12.189	-0.001	98	163202	0.5000	0.5134	
126 2-Chlorotoluene	126	12.261	12.262	-0.001	98	36985	0.5000	0.5327	a
127 1,3,5-Trimethylbenzene	105	12.322	12.323	-0.001	94	125592	0.5000	0.5183	
128 4-Chlorotoluene	126	12.359	12.353	0.006	96	37661	0.5000	0.5294	
129 tert-Butylbenzene	134	12.566	12.566	0.000	91	30391	0.5000	0.5220	
130 Pentachloroethane	167	12.597	12.597	0.000	78	22167	0.5000	0.4923	
131 1,2,4-Trimethylbenzene	105	12.609	12.609	0.000	96	129589	0.5000	0.5210	
132 sec-Butylbenzene	105	12.731	12.731	0.000	93	159057	0.5000	0.5162	
133 1,3-Dichlorobenzene	146	12.828	12.829	-0.001	99	71773	0.5000	0.5113	
134 4-Isopropyltoluene	119	12.841	12.841	0.000	97	137662	0.5000	0.5011	
* 135 1,4-Dichlorobenzene-d4	152	12.883	12.883	0.000	93	834938	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.902	12.902	0.000	96	73356	0.5000	0.5302	
137 1,2,3-Trimethylbenzene	120	12.914	12.914	0.000	97	56949	0.5000	0.5065	
138 Benzyl chloride	126	12.981	12.981	0.000	98	10607	0.5000	0.4967	
139 n-Butylbenzene	92	13.133	13.133	0.000	97	61172	0.5000	0.4973	
140 1,2-Dichlorobenzene	146	13.164	13.158	0.006	100	69532	0.5000	0.5273	
142 1,2-Dibromo-3-Chloropropane	155	13.712	13.700	0.012	86	3960	0.5000	0.4875	
143 1,3,5-Trichlorobenzene	180	13.834	13.828	0.006	97	51123	0.5000	0.4856	
144 1,2,4-Trichlorobenzene	180	14.255	14.249	0.006	94	40773	0.5000	0.4814	
145 Hexachlorobutadiene	225	14.334	14.334	0.000	95	19602	0.5000	0.4751	
146 Naphthalene	128	14.432	14.426	0.006	96	77405	0.5000	0.5021	
147 1,2,3-Trichlorobenzene	180	14.572	14.572	0.000	96	33951	0.5000	0.4789	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
165 Isopropyl alcohol	45		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_00081	Amount Added: 2.00	Units: uL	
MSV_LL_#2_826_00093	Amount Added: 2.00	Units: uL	
MSV_LL_GAS826_00156	Amount Added: 2.00	Units: uL	
MSV_LLcentISS_00007	Amount Added: 5.00	Units: uL	Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X13.D

Injection Date: 19-Jun-2023 18:40:30

Instrument ID: 19930

Operator ID: KNK41612

Lims ID: IC std2

Worklist Smp#: 14

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

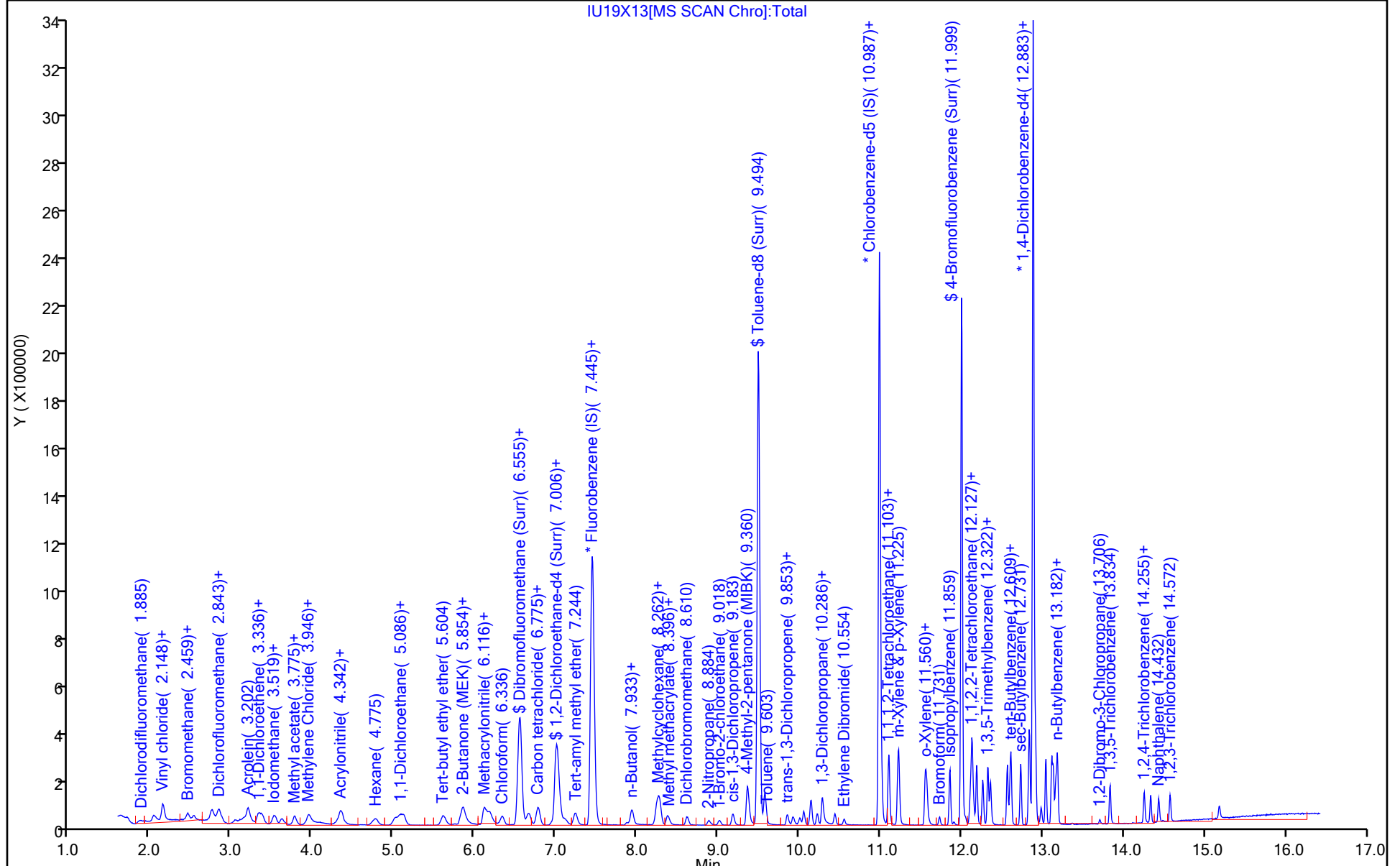
ALS Bottle#: 13

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

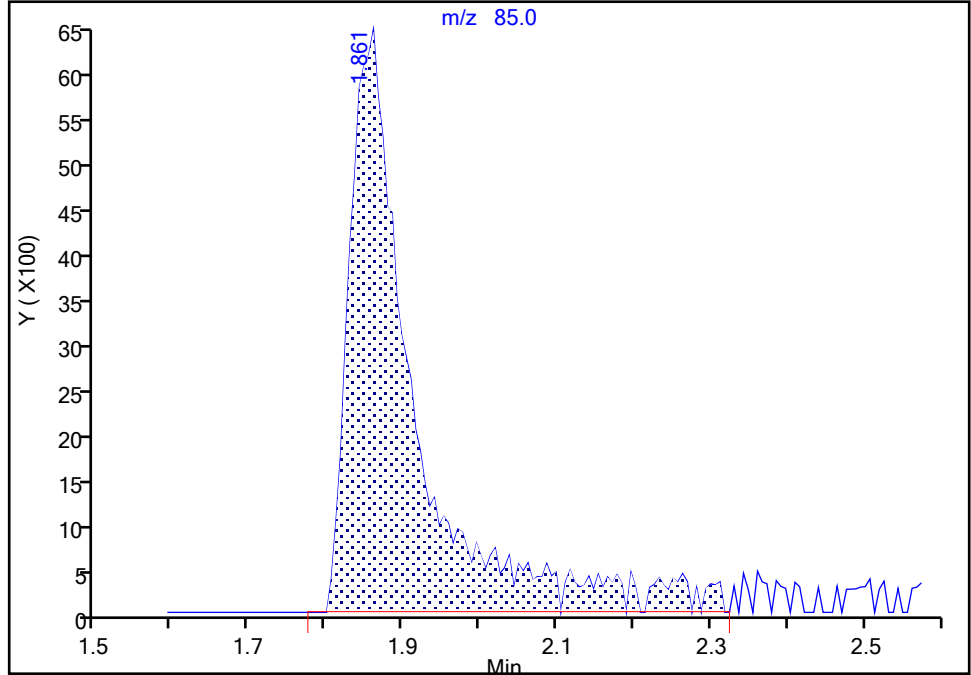
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Injection Date: 19-Jun-2023 18:40:30 Instrument ID: 19930  
Lims ID: IC std2  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 13 Worklist Smp#: 14  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

1 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

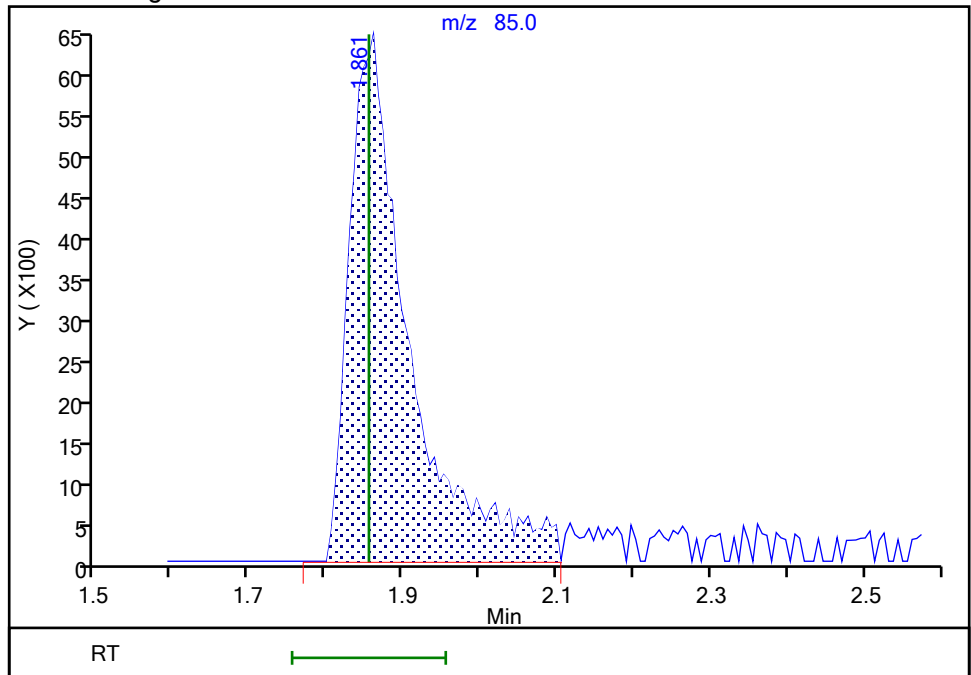
RT: 1.86  
Area: 38274  
Amount: 0.530355  
Amount Units: ug/l

Processing Integration Results



RT: 1.86  
Area: 34723  
Amount: 0.494421  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:51:45 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

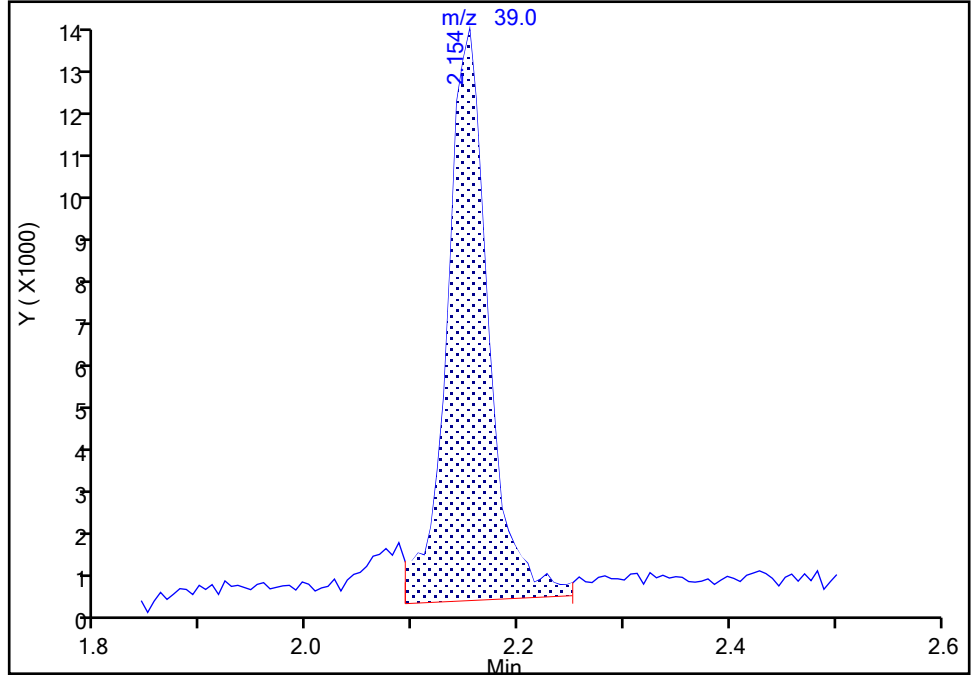
Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X13.D  
Injection Date: 19-Jun-2023 18:40:30 Instrument ID: 19930  
Lims ID: IC std2  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 13 Worklist Smp#: 14  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

6 Butadiene, CAS: 106-99-0

Signal: 1

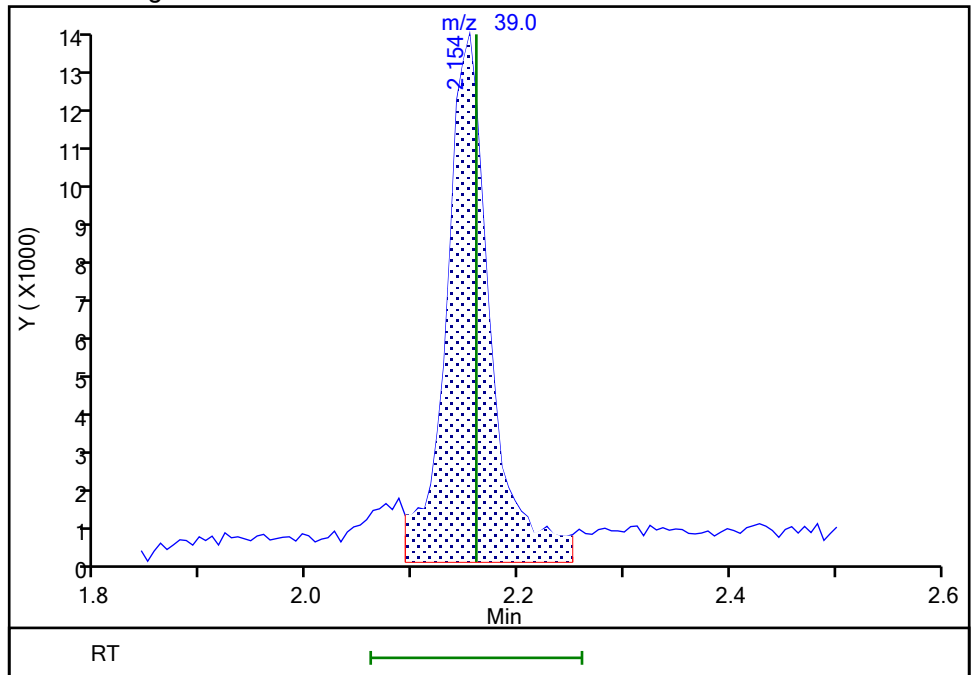
RT: 2.15  
Area: 37005  
Amount: 0.500365  
Amount Units: ug/l

Processing Integration Results



RT: 2.15  
Area: 40081  
Amount: 0.561114  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:52:00 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

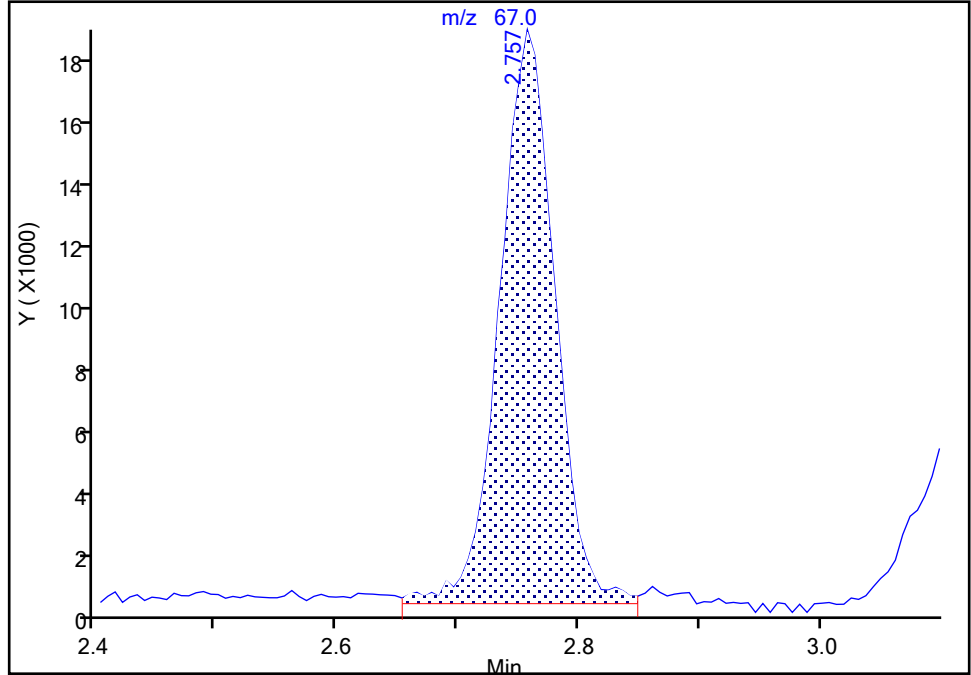
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Injection Date: 19-Jun-2023 18:40:30 Instrument ID: 19930  
Lims ID: IC std2  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 13 Worklist Smp#: 14  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

9 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

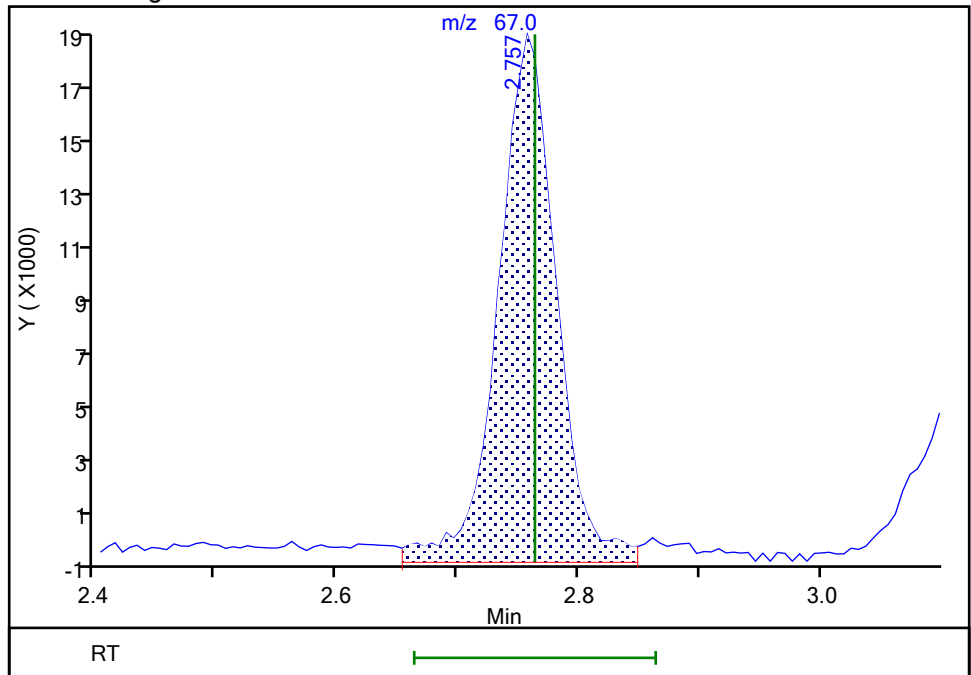
RT: 2.76  
Area: 59470  
Amount: 0.514445  
Amount Units: ug/l

Processing Integration Results



RT: 2.76  
Area: 62910  
Amount: 0.551864  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:52:13 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

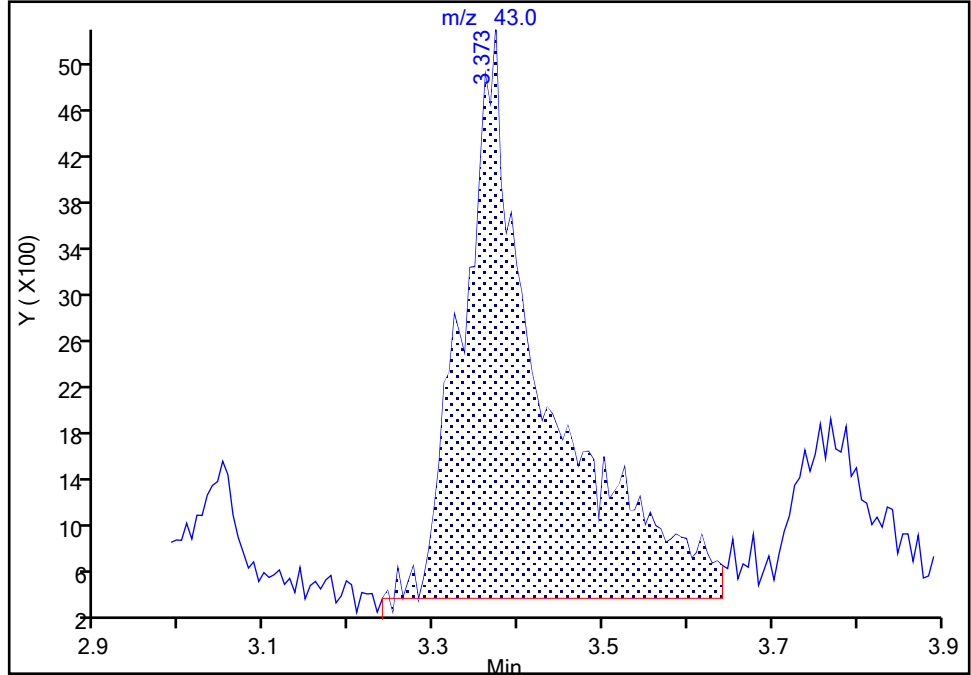
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Injection Date: 19-Jun-2023 18:40:30 Instrument ID: 19930  
Lims ID: IC std2  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 13 Worklist Smp#: 14  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

16 Acetone, CAS: 67-64-1

Signal: 1

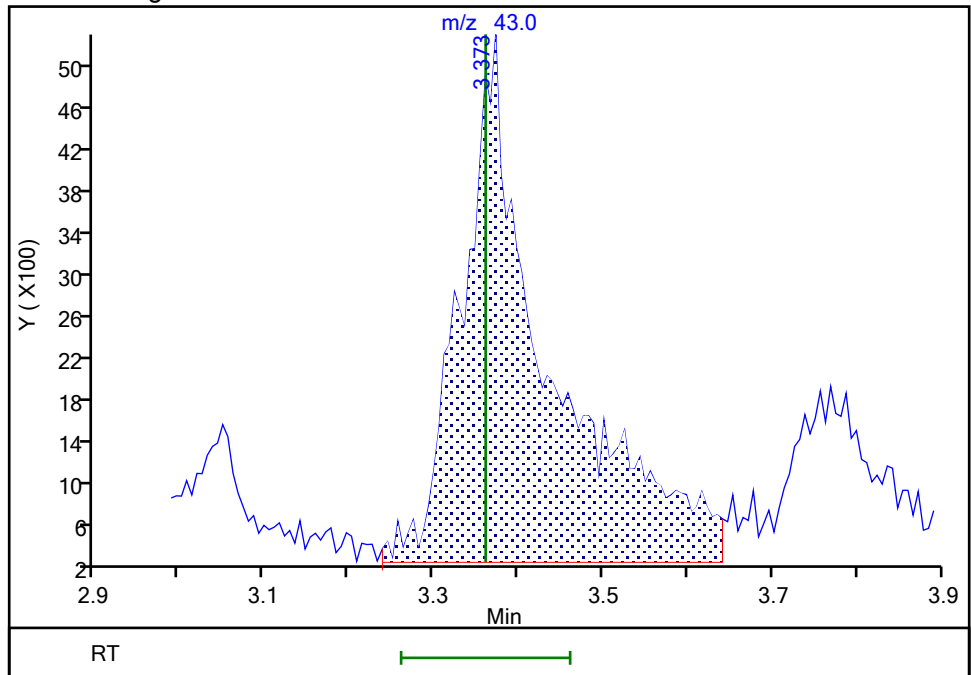
RT: 3.37  
Area: 32296  
Amount: 4.222448  
Amount Units: ug/l

Processing Integration Results



RT: 3.37  
Area: 35188  
Amount: 5.556663  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:52:28 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

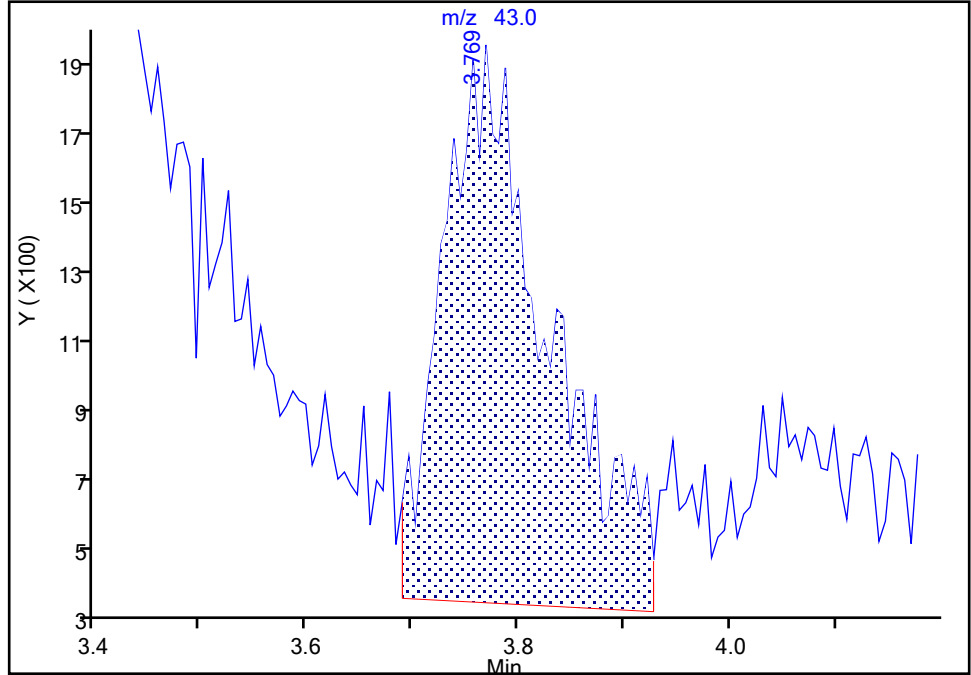
Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X13.D  
Injection Date: 19-Jun-2023 18:40:30 Instrument ID: 19930  
Lims ID: IC std2  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 13 Worklist Smp#: 14  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

23 Methyl acetate, CAS: 79-20-9

Signal: 1

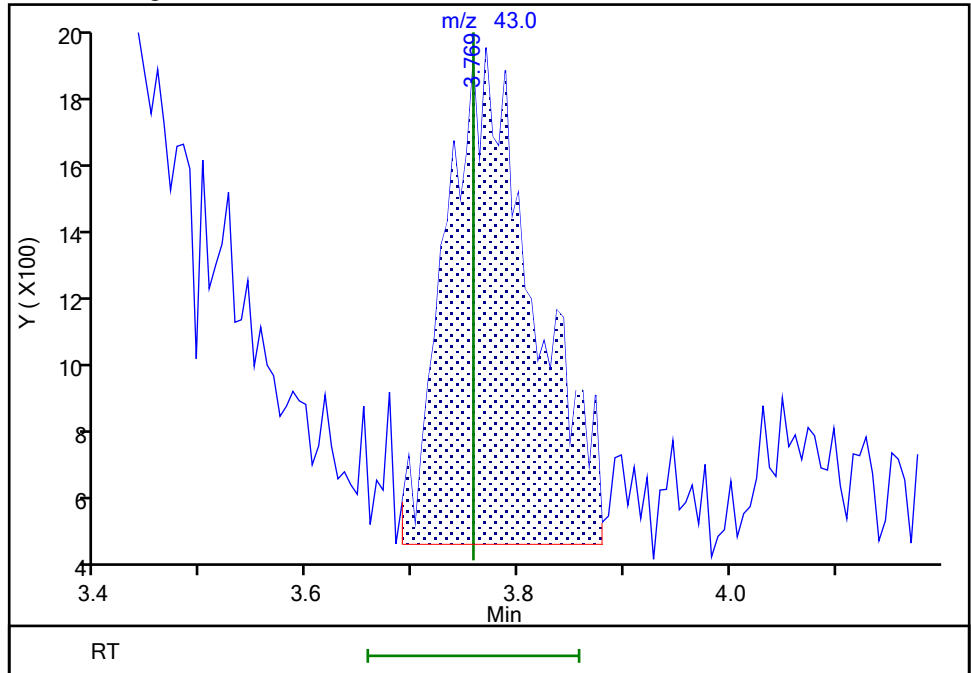
RT: 3.77  
Area: 11064  
Amount: 0.695352  
Amount Units: ug/l

Processing Integration Results



RT: 3.77  
Area: 8217  
Amount: 0.525783  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:52:48 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration



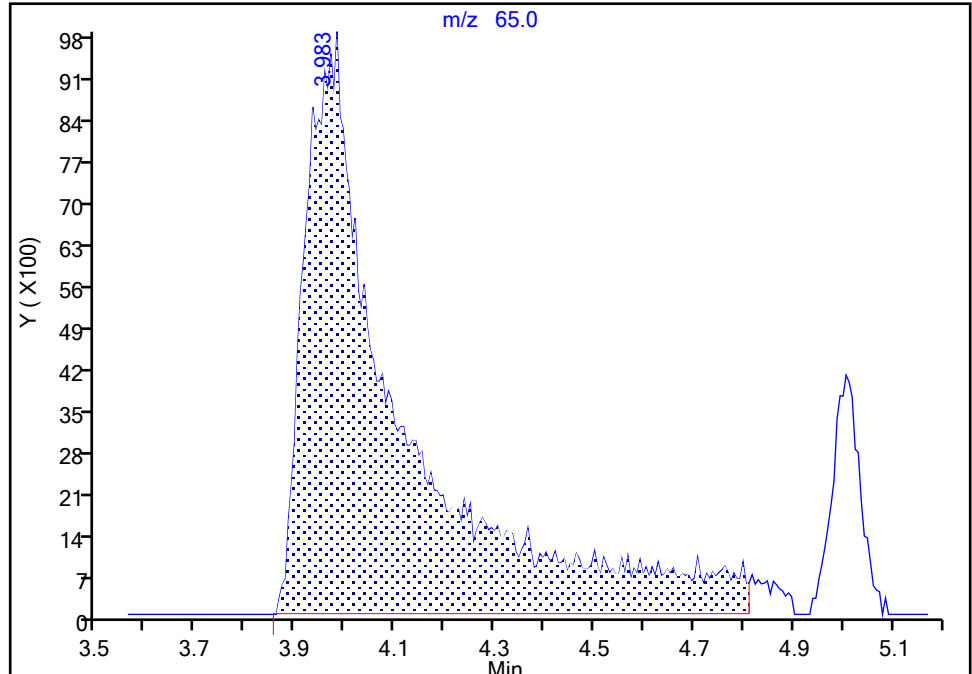
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X13.D  
Injection Date: 19-Jun-2023 18:40:30 Instrument ID: 19930  
Lims ID: IC std2  
Client ID:  
Operator ID: KNK41612 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

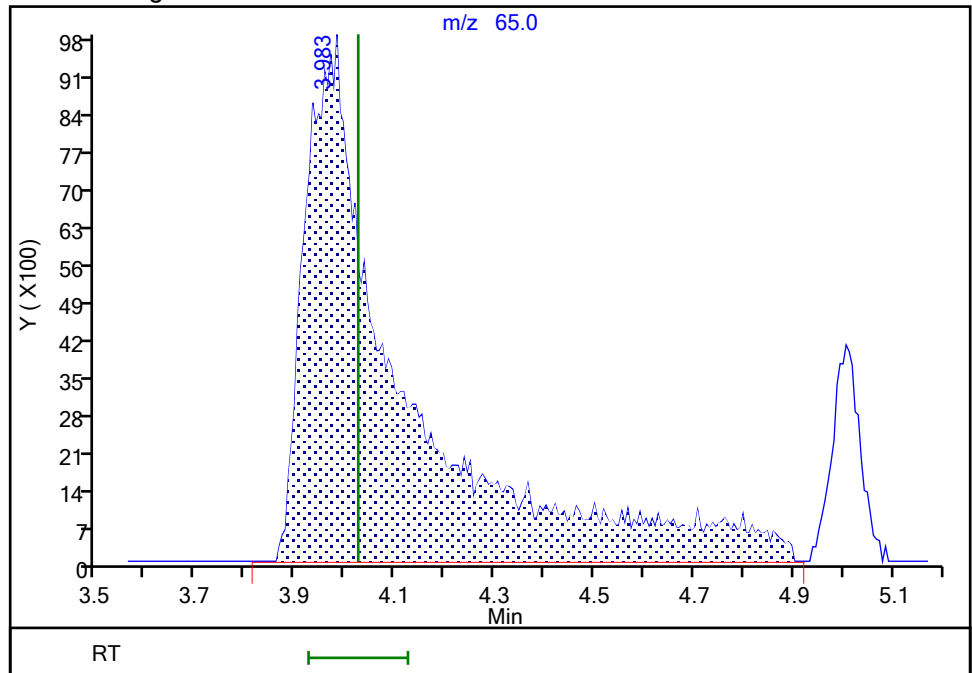
RT: 3.98  
Area: 129998  
Amount: 50.000000  
Amount Units: ug/l

Processing Integration Results



RT: 3.98  
Area: 132398  
Amount: 50.000000  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:53:02 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

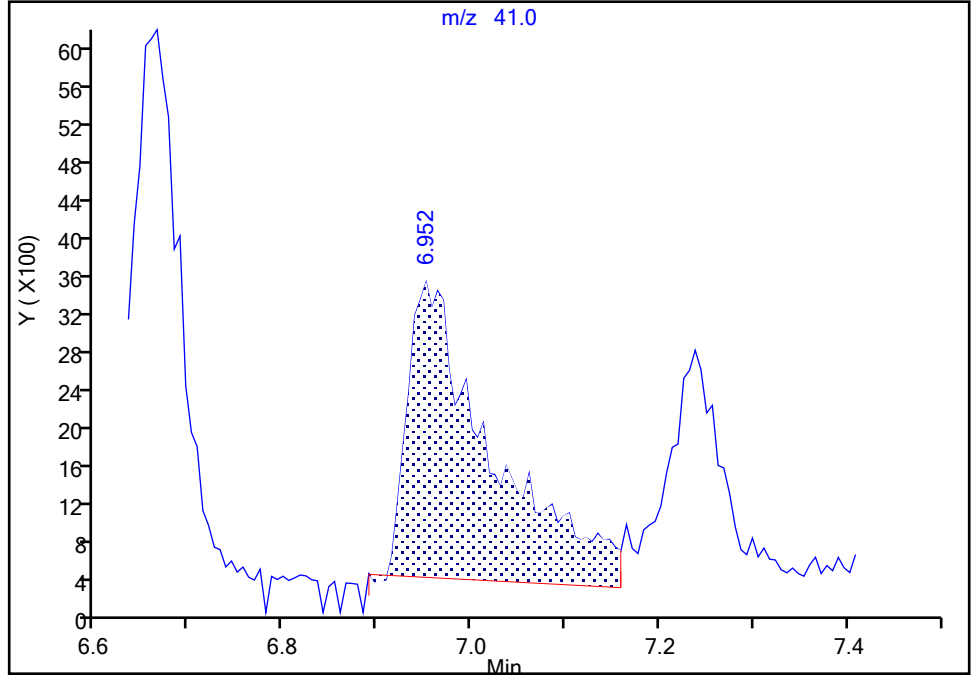
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Injection Date: 19-Jun-2023 18:40:30 Instrument ID: 19930  
Lims ID: IC std2  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 13 Worklist Smp#: 14  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

55 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

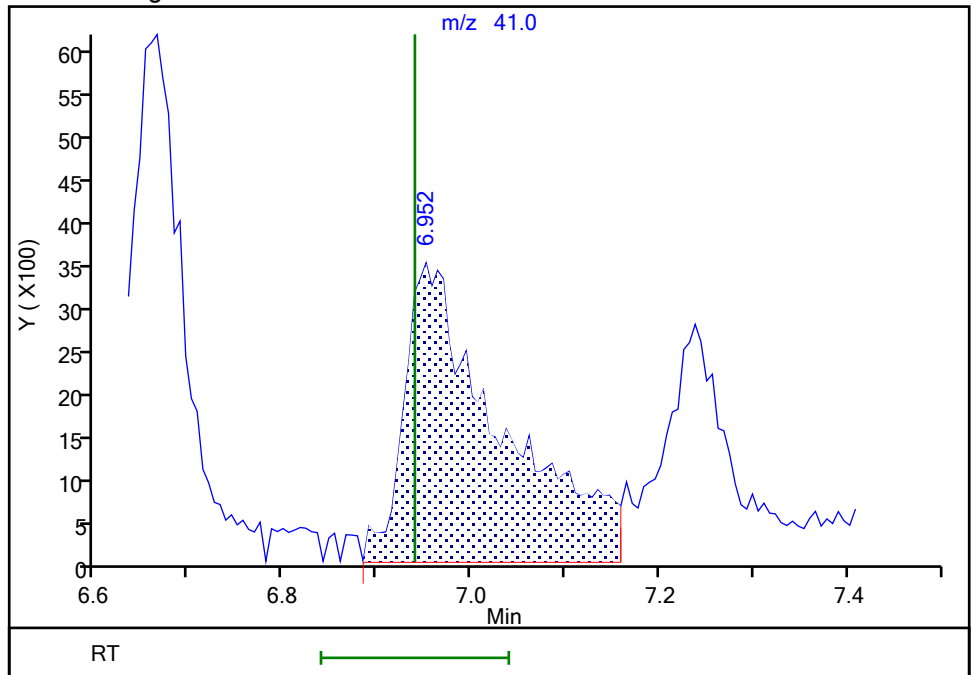
RT: 6.95  
Area: 19231  
Amount: 21.730300  
Amount Units: ug/l

Processing Integration Results



RT: 6.95  
Area: 24811  
Amount: 27.724861  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:53:30 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

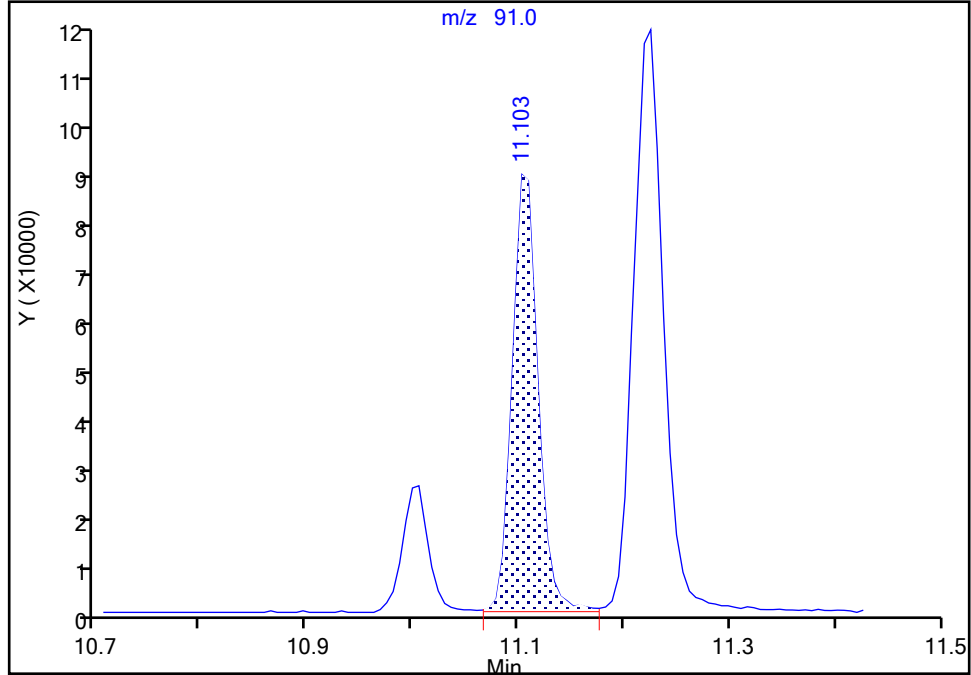
Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X13.D  
Injection Date: 19-Jun-2023 18:40:30 Instrument ID: 19930  
Lims ID: IC std2  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 13 Worklist Smp#: 14  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

108 1-Chlorohexane, CAS: 544-10-5

Signal: 1

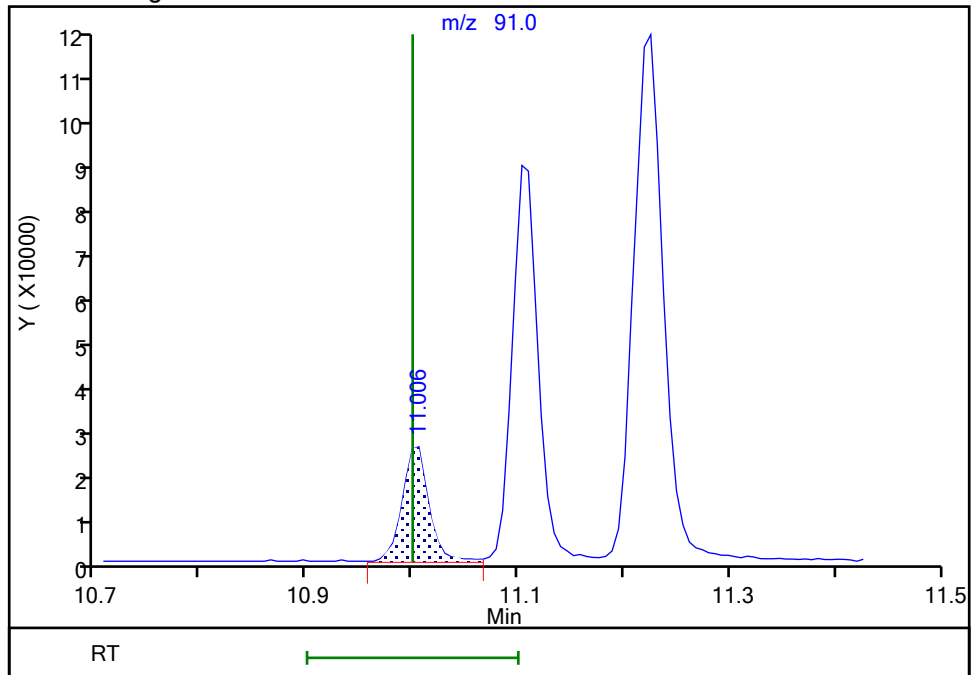
RT: 11.10  
Area: 143495  
Amount: 0.598385  
Amount Units: ug/l

Processing Integration Results



RT: 11.01  
Area: 42354  
Amount: 0.519576  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 22-Jun-2023 07:47:29 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

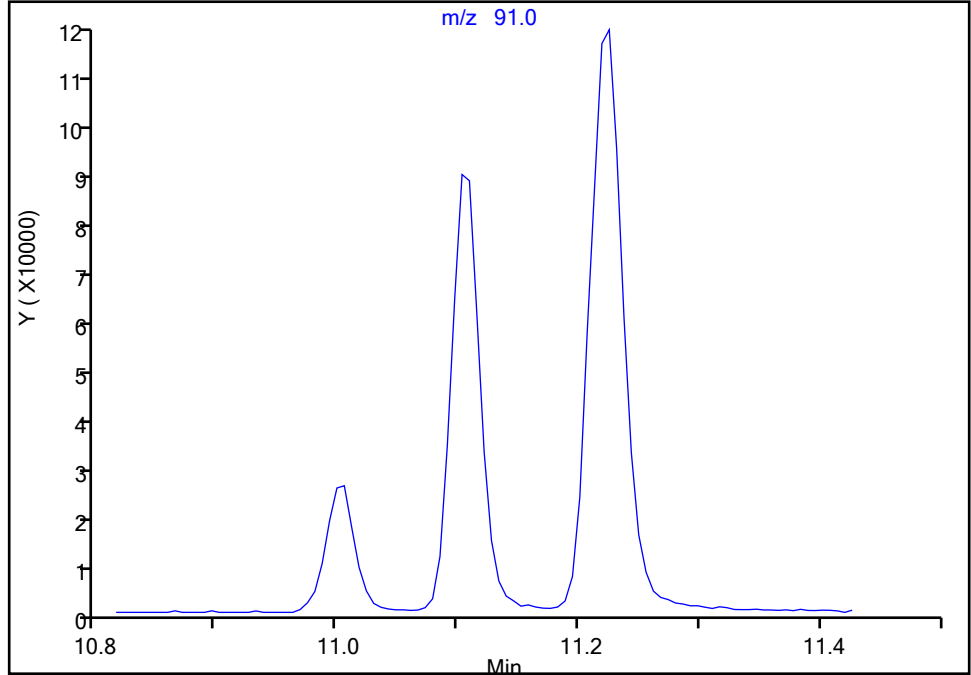
Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X13.D  
Injection Date: 19-Jun-2023 18:40:30 Instrument ID: 19930  
Lims ID: IC std2  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 13 Worklist Smp#: 14  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

112 Ethylbenzene, CAS: 100-41-4

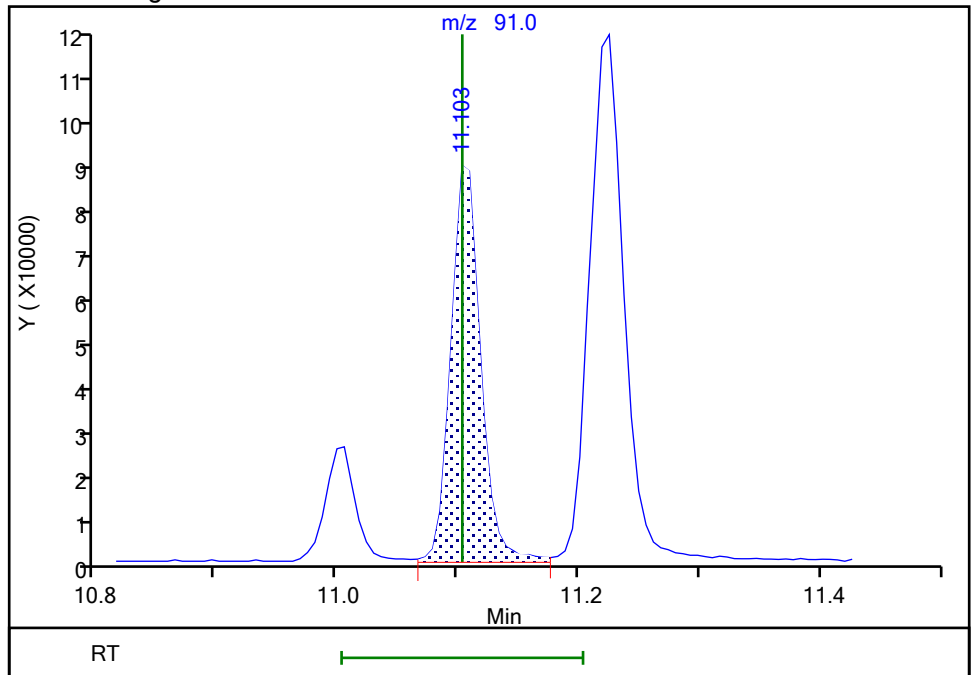
Signal: 1

Not Detected  
Expected RT: 11.10

Processing Integration Results



Manual Integration Results



RT: 11.10  
Area: 143495  
Amount: 0.525673  
Amount Units: ug/l

Reviewer: DVW2, 21-Jun-2023 15:33:58 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

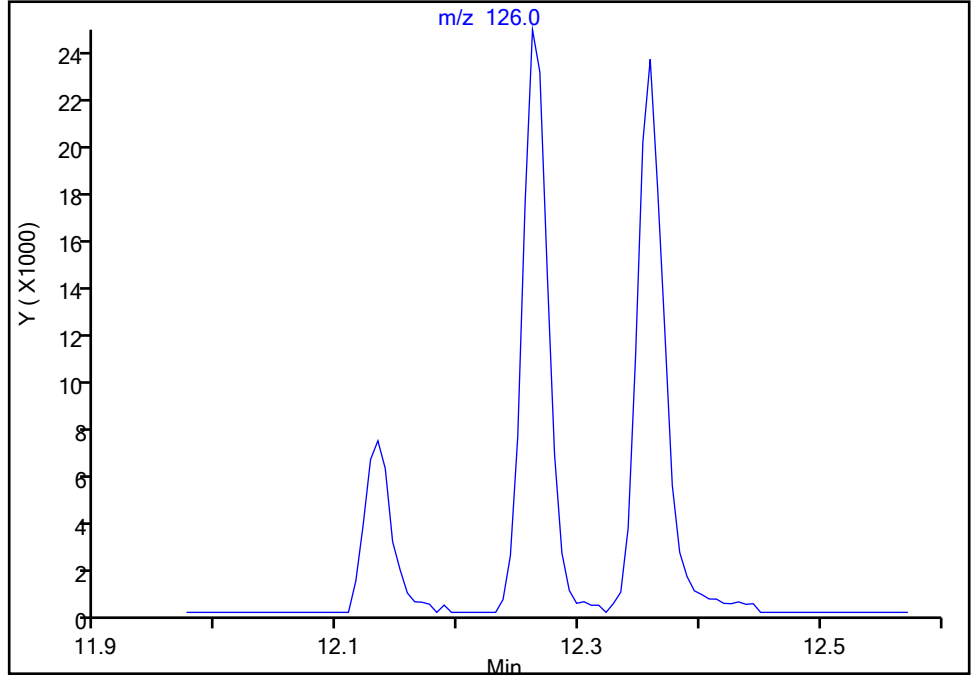
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Injection Date: 19-Jun-2023 18:40:30 Instrument ID: 19930  
Lims ID: IC std2  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 13 Worklist Smp#: 14  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

126 2-Chlorotoluene, CAS: 95-49-8

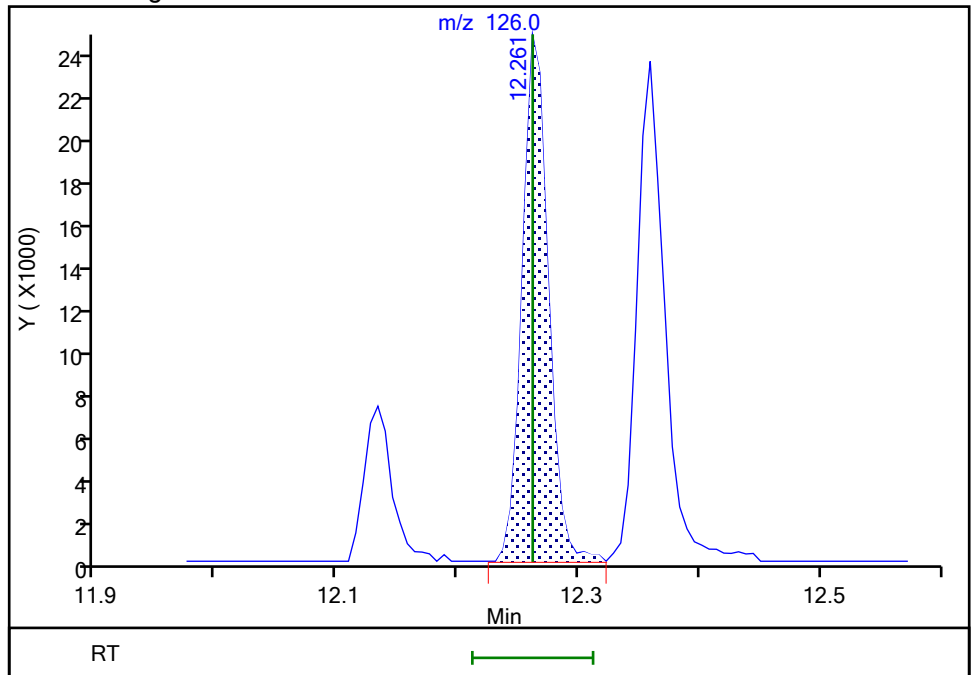
Signal: 1

Not Detected  
Expected RT: 12.26

Processing Integration Results



Manual Integration Results



RT: 12.26  
Area: 36985  
Amount: 0.532691  
Amount Units: ug/l

Reviewer: DVW2, 21-Jun-2023 15:34:04 -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\20230619-86929.b\IU19X14.D  
 Lims ID: IC std3  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 19-Jun-2023 19:01:30 ALS Bottle#: 14 Worklist Smp#: 15  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0086929-015  
 Misc. Info.: LG 1.0  
 Operator ID: KNK41612 Instrument ID: 19930  
 Sublist: chrom-8260 25ml HP31\*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 27-Jun-2023 12:30:15 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D

Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1687

First Level Reviewer: DVW2

Date: 21-Jun-2023 07:57:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.849	1.855	-0.006	99	68962	1.00	0.9619	M
4 Chloromethane	50	2.044	2.050	-0.006	99	73144	1.00	1.00	
5 Vinyl chloride	62	2.148	2.160	-0.012	75	69992	1.00	1.00	
6 Butadiene	39	2.154	2.160	-0.006	91	70973	1.00	0.9733	M
7 Bromomethane	94	2.459	2.465	-0.006	90	55026	1.00	1.01	
8 Chloroethane	64	2.532	2.538	-0.006	99	41214	1.00	0.9885	
9 Dichlorofluoromethane	67	2.763	2.764	-0.001	97	116915	1.00	1.00	
10 Trichlorofluoromethane	101	2.824	2.824	0.000	97	87039	1.00	0.9810	
11 Ethyl ether	59	3.044	3.050	-0.006	91	37553	1.00	1.03	
13 1,2-Dichloro-1,1,2-trifluoroethane	67	3.117	3.142	-0.025	88	60893	1.00	0.9623	
14 Acrolein	56	3.208	3.209	-0.001	98	286815	50.0	49.6	
15 1,1-Dichloroethene	96	3.336	3.337	-0.001	98	42885	1.00	0.8930	
16 Acetone	43	3.367	3.361	0.006	84	70684	10.0	11.1	M
17 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.373	3.385	-0.012	89	45537	1.00	0.8934	
18 Iodomethane	142	3.519	3.526	-0.007	98	96625	1.00	0.9569	
19 Ethyl bromide	108	3.544	3.550	-0.006	97	44143	1.00	1.05	
20 Carbon disulfide	76	3.623	3.629	-0.006	99	119139	1.00	0.9149	
23 Methyl acetate	43	3.769	3.757	0.012	25	14418	1.00	0.9146	M
24 3-Chloro-1-propene	41	3.775	3.782	-0.007	91	68239	1.00	0.9143	
25 Methylene Chloride	84	3.952	3.958	-0.006	89	47789	1.00	0.9426	
* 26 t-Butyl alcohol-d10 (IS)	65	3.983	4.025	-0.042	95	133555	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.092	4.093	-0.001	96	52571	20.0	20.7	
28 Acrylonitrile	53	4.294	4.282	0.012	98	17396	2.50	2.24	
29 Methyl tert-butyl ether	73	4.342	4.342	0.000	91	132891	1.00	1.01	
30 trans-1,2-Dichloroethene	96	4.348	4.355	-0.007	98	49647	1.00	0.9289	
31 Hexane	57	4.769	4.781	-0.012	91	61908	1.00	0.8837	
32 1,1-Dichloroethane	63	5.013	5.013	0.000	96	88859	1.00	0.9705	
35 Isopropyl ether	45	5.074	5.074	0.000	94	147957	1.00	0.9841	
36 2-Chloro-1,3-butadiene	53	5.123	5.123	0.000	91	70549	1.00	0.9215	
37 Tert-butyl ethyl ether	59	5.610	5.623	-0.013	96	141482	1.00	0.9852	

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	5.824	5.812	0.012	99	122006	10.0	9.91	
39 cis-1,2-Dichloroethene	96	5.854	5.854	0.000	81	56850	1.00	0.9561	
40 2,2-Dichloropropane	77	5.866	5.867	-0.001	88	75466	1.00	0.9147	
43 Propionitrile	54	5.903	5.891	0.012	98	66438	20.0	20.4	
45 Methacrylonitrile	67	6.110	6.110	0.000	90	128773	10.0	10.0	
S 41 1,2-Dichloroethene, Total	100				0			1.89	
46 Chlorobromomethane	128	6.177	6.190	-0.013	84	26936	1.00	1.00	
47 Tetrahydrofuran	71	6.196	6.196	0.000	74	20095	5.00	4.96	
48 Chloroform	83	6.336	6.342	-0.006	93	91363	1.00	0.9660	
\$ 49 Dibromofluoromethane (Surr)	113	6.555	6.555	0.000	95	461318	10.0	10.0	
50 1,1,1-Trichloroethane	97	6.568	6.568	0.000	96	81153	1.00	0.9188	
51 Cyclohexane	56	6.659	6.671	-0.012	88	73626	1.00	0.8797	
54 Carbon tetrachloride	117	6.775	6.781	-0.006	97	71388	1.00	0.9072	
53 1,1-Dichloropropene	75	6.781	6.781	0.000	94	63636	1.00	0.9049	
55 Isobutyl alcohol	41	6.952	6.940	0.012	94	48416	50.0	53.6	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.006	7.013	-0.007	68	93659	10.0	10.3	
57 Benzene	78	7.037	7.043	-0.006	92	202213	1.00	0.9564	
58 1,2-Dichloroethane	62	7.110	7.116	-0.006	98	56615	1.00	0.9878	
60 Tert-amyl methyl ether	73	7.238	7.244	-0.006	98	131492	1.00	0.99	
* 61 Fluorobenzene (IS)	96	7.445	7.445	0.000	99	1790586	10.0	10.0	
62 n-Heptane	43	7.470	7.470	0.000	92	58742	1.00	0.8733	
63 n-Butanol	56	7.860	7.836	0.024	85	57099	87.5	82.3	
64 Trichloroethene	95	7.933	7.933	0.000	96	55041	1.00	0.9357	
65 Methylcyclohexane	83	8.244	8.244	0.000	92	85392	1.00	0.8987	
66 1,2-Dichloropropane	63	8.262	8.269	-0.007	95	50772	1.00	0.9712	
67 Methyl methacrylate	69	8.366	8.354	0.012	89	25680	1.00	1.01	
68 1,4-Dioxane	88	8.372	8.366	0.006	31	5746	50.0	39.0	
69 Dibromomethane	93	8.384	8.378	0.006	92	26070	1.00	0.99	
71 Dichlorobromomethane	83	8.616	8.616	0.000	99	66817	1.00	0.9834	
72 2-Nitropropane	41	8.884	8.884	0.000	98	38795	5.00	4.69	
75 1-Bromo-2-chloroethane	63	9.018	9.012	0.006	98	55828	1.00	1.05	
76 cis-1,3-Dichloropropene	75	9.177	9.177	0.000	96	78154	1.00	0.9586	
77 4-Methyl-2-pentanone (MIBK)	43	9.360	9.360	0.000	95	324775	10.0	9.83	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.500	-0.006	93	1804500	10.0	9.93	
79 Toluene	92	9.573	9.579	-0.006	98	134873	1.00	0.9406	
97 trans-1,3-Dichloropropene	75	9.847	9.848	-0.001	92	65778	1.00	0.9719	
99 Ethyl methacrylate	69	9.921	9.915	0.005	89	56167	1.00	1.00	
100 1,1,2-Trichloroethane	97	10.055	10.055	0.000	90	40644	1.00	1.00	
S 98 1,3-Dichloropropene, Total	100				0			1.93	
101 Tetrachloroethene	166	10.140	10.146	-0.006	98	69578	1.00	0.9303	
102 1,3-Dichloropropane	76	10.219	10.219	0.000	89	63491	1.00	0.99	
103 2-Hexanone	43	10.280	10.274	0.006	95	234543	10.0	10.0	
105 Chlorodibromomethane	129	10.439	10.439	0.000	90	50898	1.00	0.9660	
106 Ethylene Dibromide	107	10.555	10.549	0.006	99	38807	1.00	1.02	
* 107 Chlorobenzene-d5 (IS)	117	10.987	10.987	0.000	84	1413947	10.0	10.0	
108 1-Chlorohexane	91	11.000	11.000	0.000	95	75197	1.00	0.9011	a
109 Chlorobenzene	112	11.018	11.018	0.000	97	161040	1.00	0.9599	
111 1,1,1,2-Tetrachloroethane	131	11.103	11.097	0.006	96	58062	1.00	0.9712	
112 Ethylbenzene	91	11.103	11.103	0.000	98	262649	1.00	0.9399	a
113 m-Xylene & p-Xylene	106	11.225	11.219	0.006	93	213843	2.00	1.89	
S 110 Xylenes, Total	106				0			2.85	
114 o-Xylene	106	11.554	11.554	0.000	95	107419	1.00	0.9616	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Styrene	104	11.573	11.567	0.006	95	171340	1.00	0.9534	
116 Bromoform	173	11.725	11.725	0.000	98	33303	1.00	0.9745	
117 Isopropylbenzene	105	11.859	11.859	0.000	95	271455	1.00	0.9369	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.999	12.000	-0.001	96	682073	10.0	9.96	
121 1,1,2,2-Tetrachloroethane	83	12.103	12.103	0.000	93	52659	1.00	1.04	
122 Bromobenzene	156	12.115	12.115	0.000	94	71063	1.00	0.9706	
123 trans-1,4-Dichloro-2-butene	53	12.133	12.128	0.005	93	123536	10.0	9.93	
124 1,2,3-Trichloropropane	110	12.152	12.146	0.006	81	15312	1.00	1.08	
125 N-Propylbenzene	91	12.188	12.189	-0.001	98	303252	1.00	0.9358	
126 2-Chlorotoluene	126	12.262	12.262	0.000	97	67323	1.00	0.9512	a
127 1,3,5-Trimethylbenzene	105	12.322	12.323	-0.001	95	235489	1.00	0.9535	
128 4-Chlorotoluene	126	12.359	12.353	0.006	96	70351	1.00	0.9702	
129 tert-Butylbenzene	134	12.566	12.566	0.000	92	56204	1.00	0.9470	
130 Pentachloroethane	167	12.597	12.597	0.000	92	47961	1.00	1.04	
131 1,2,4-Trimethylbenzene	105	12.609	12.609	0.000	96	244539	1.00	0.9644	
132 sec-Butylbenzene	105	12.731	12.731	0.000	94	293727	1.00	0.9351	
133 1,3-Dichlorobenzene	146	12.828	12.829	-0.001	98	136646	1.00	0.9550	
134 4-Isopropyltoluene	119	12.841	12.841	0.000	97	264478	1.00	0.9444	
* 135 1,4-Dichlorobenzene-d4	152	12.883	12.883	0.000	93	851085	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.902	12.902	0.000	96	139429	1.00	0.9886	
137 1,2,3-Trimethylbenzene	120	12.914	12.914	0.000	98	111687	1.00	0.9744	
138 Benzyl chloride	126	12.981	12.981	0.000	98	21662	1.00	1.00	
139 n-Butylbenzene	92	13.133	13.133	0.000	97	115817	1.00	0.9236	
140 1,2-Dichlorobenzene	146	13.164	13.158	0.006	99	131059	1.00	0.9750	
142 1,2-Dibromo-3-Chloropropane	155	13.706	13.700	0.006	89	8390	1.00	1.01	
143 1,3,5-Trichlorobenzene	180	13.834	13.828	0.006	97	101687	1.00	0.9476	
144 1,2,4-Trichlorobenzene	180	14.255	14.249	0.006	94	81792	1.00	0.9474	
145 Hexachlorobutadiene	225	14.334	14.334	0.000	96	38205	1.00	0.9084	
146 Naphthalene	128	14.432	14.426	0.006	96	155480	1.00	0.9895	
147 1,2,3-Trichlorobenzene	180	14.572	14.572	0.000	96	69112	1.00	0.9564	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
165 Isopropyl alcohol	45		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_00081	Amount Added: 2.00	Units: uL	
MSV_LL_#2_826_00093	Amount Added: 2.00	Units: uL	
MSV_LL_GAS826_00156	Amount Added: 2.00	Units: uL	
MSV_LLcentISS_00007	Amount Added: 5.00	Units: uL	Run Reagent



Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X14.D

Injection Date: 19-Jun-2023 19:01:30

Instrument ID: 19930

Operator ID: KNK41612

Lims ID: IC std3

Worklist Smp#: 15

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

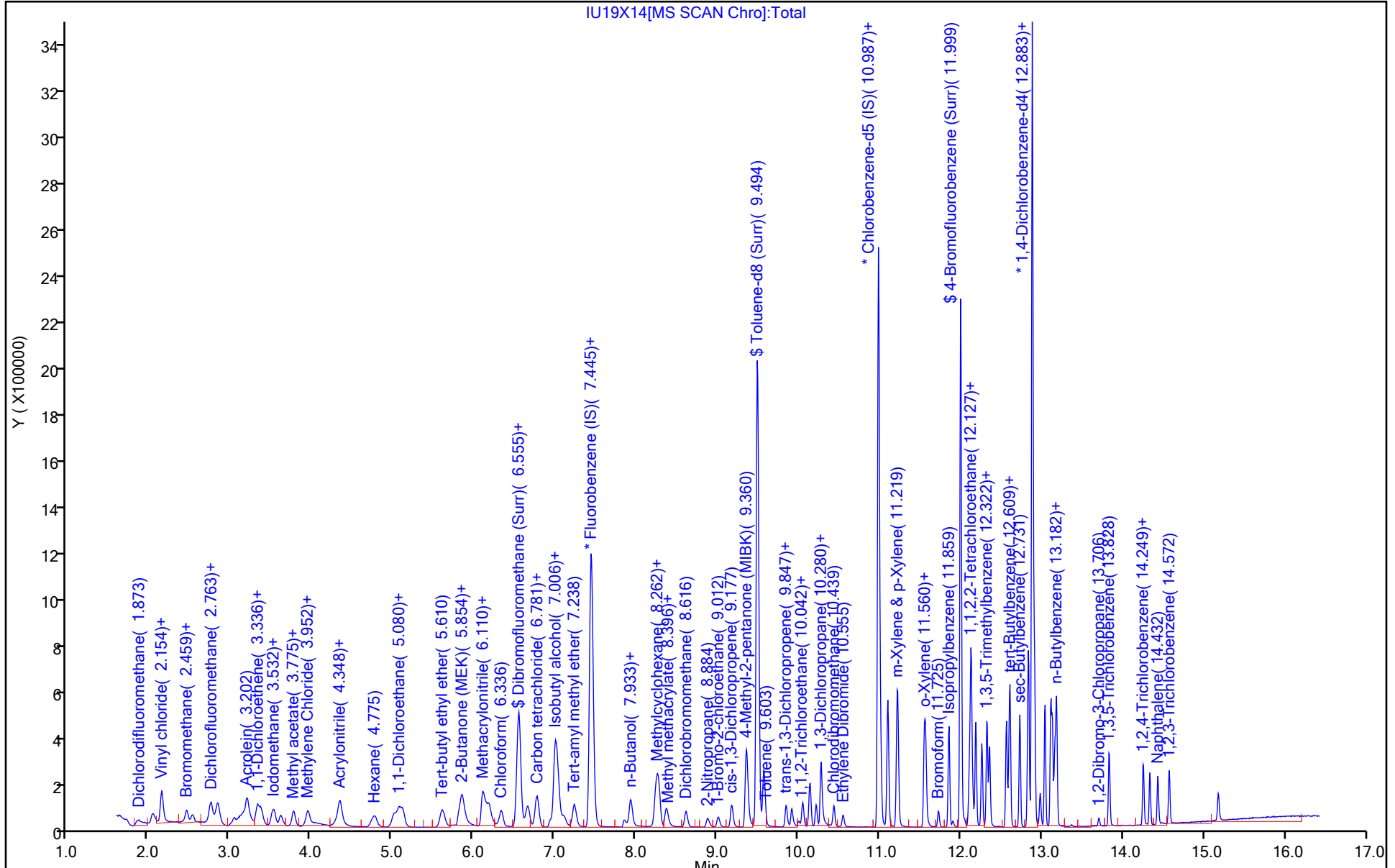
ALS Bottle#: 14

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



IU19X14[MS SCAN Chrom]:Total

Eurofins Lancaster Laboratories Environment Testing, LLC

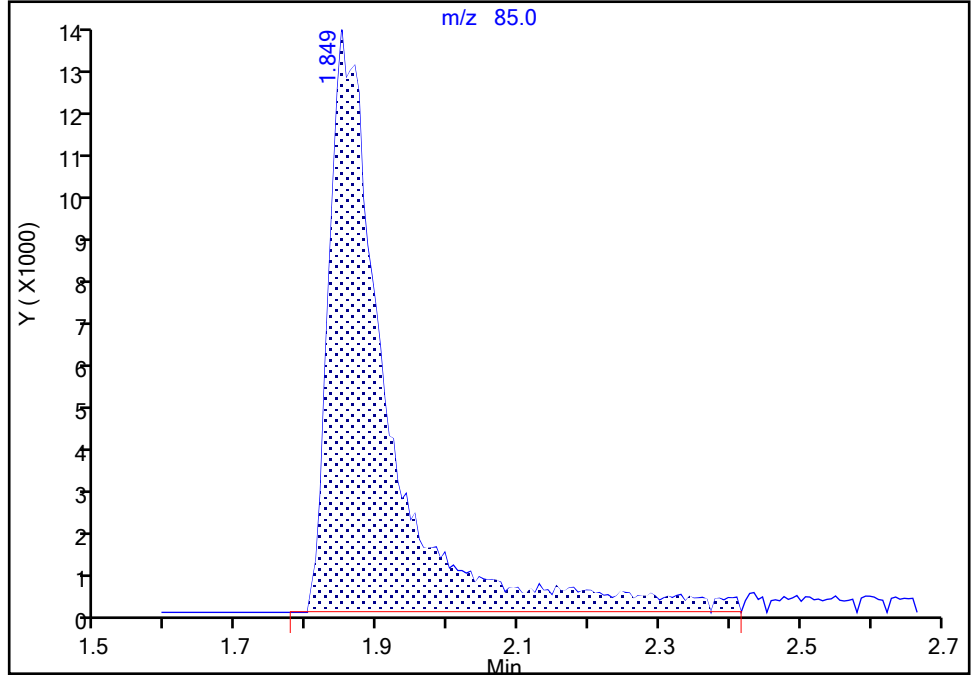
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Lims ID: IC std3  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 14 Worklist Smp#: 15  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

1 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

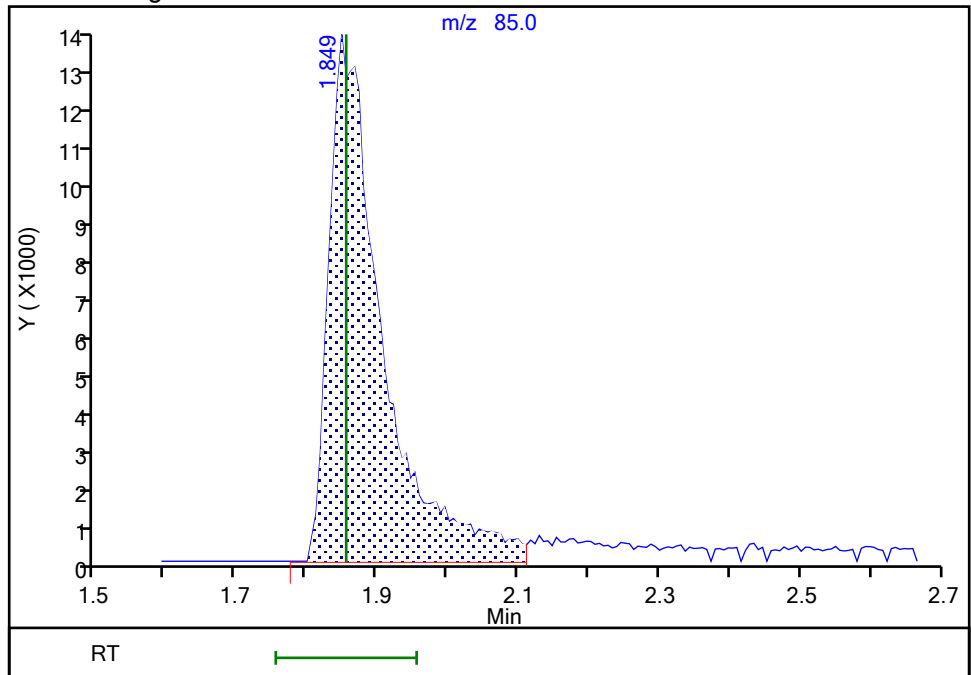
RT: 1.85  
Area: 76082  
Amount: 1.046441  
Amount Units: ug/l

Processing Integration Results



RT: 1.85  
Area: 68962  
Amount: 0.961862  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:54:35 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

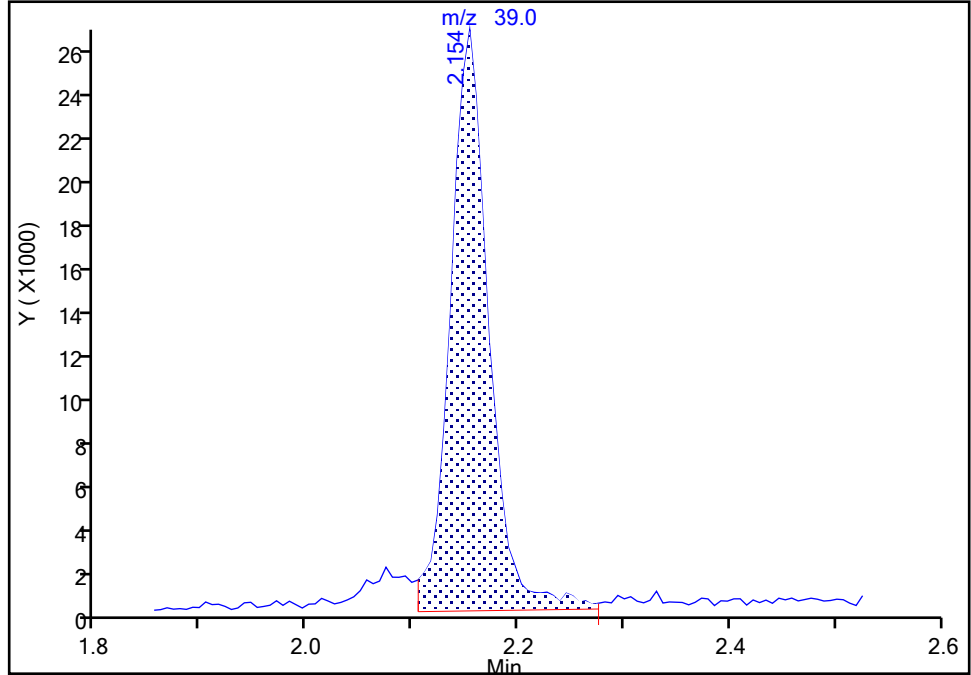
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Lims ID: IC std3  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 14 Worklist Smp#: 15  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

6 Butadiene, CAS: 106-99-0

Signal: 1

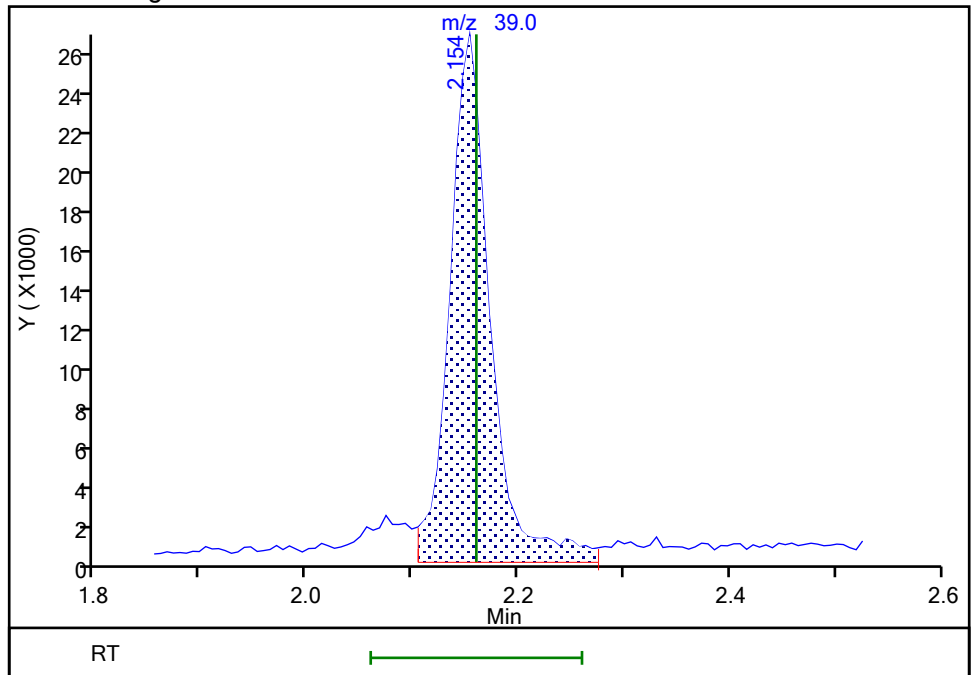
RT: 2.15  
Area: 67127  
Amount: 0.953617  
Amount Units: ug/l

Processing Integration Results



RT: 2.15  
Area: 70973  
Amount: 0.973260  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:54:49 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

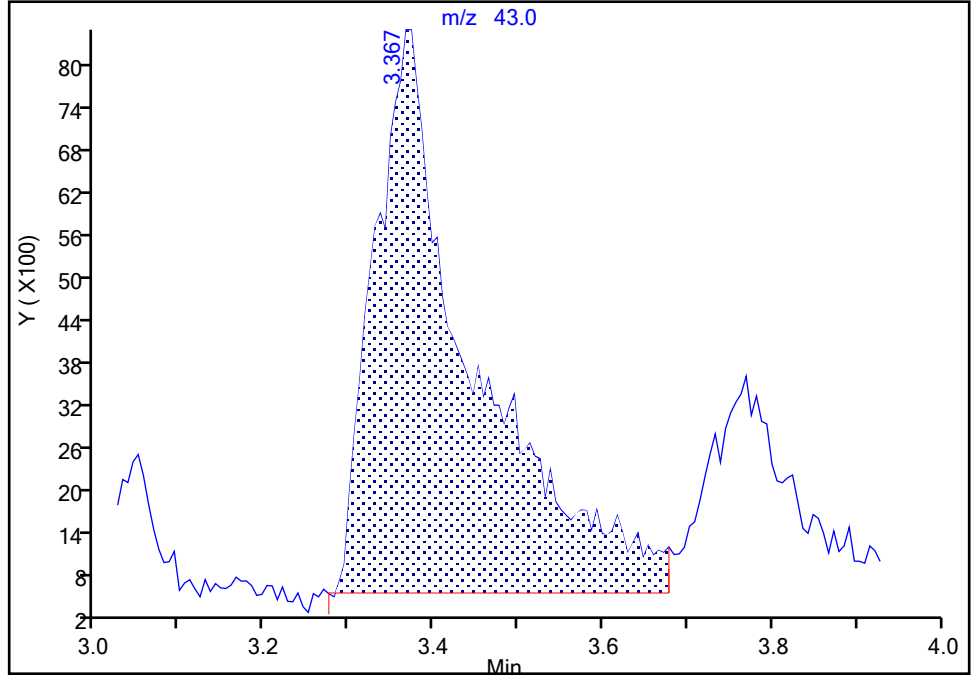
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Lims ID: IC std3  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 14 Worklist Smp#: 15  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

16 Acetone, CAS: 67-64-1

Signal: 1

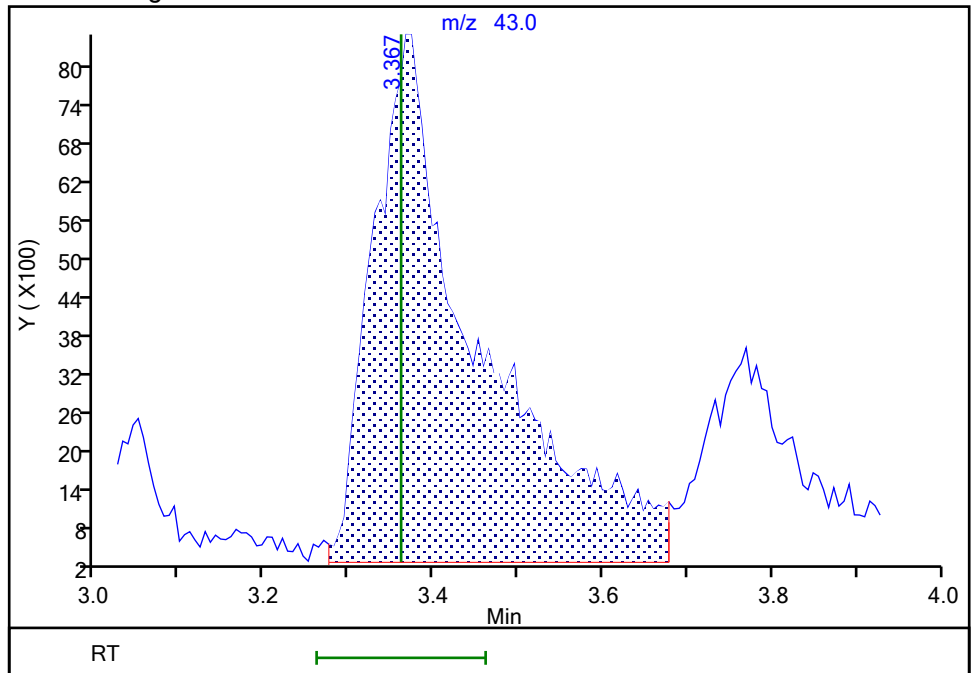
RT: 3.37  
Area: 64263  
Amount: 9.340978  
Amount Units: ug/l

Processing Integration Results



RT: 3.37  
Area: 70684  
Amount: 11.065266  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:55:06 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

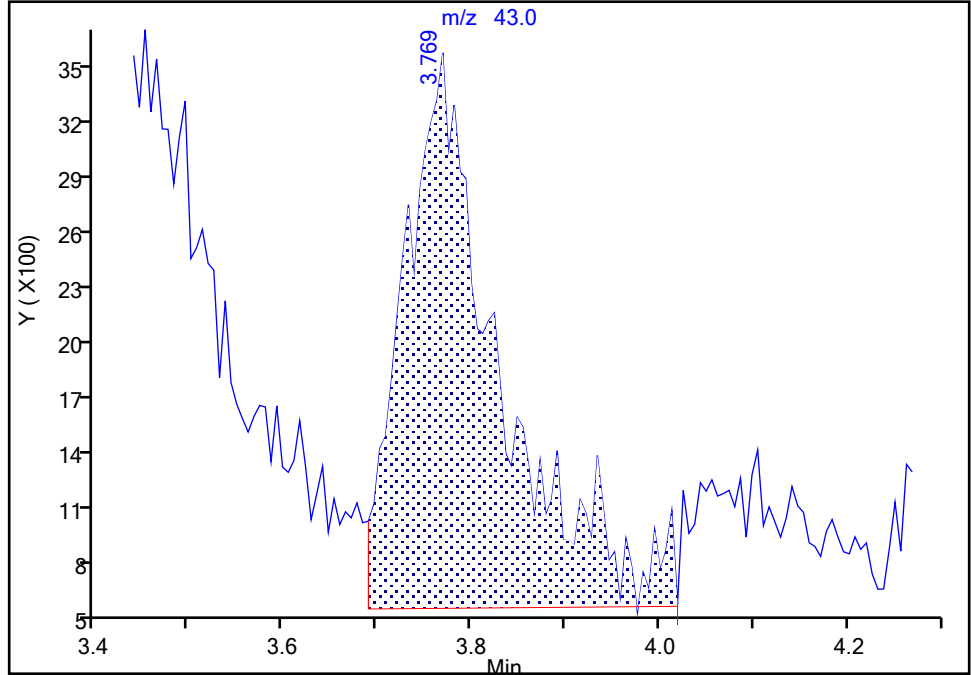
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Injection Date: 19-Jun-2023 19:01:30 Instrument ID: 19930  
Lims ID: IC std3  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 14 Worklist Smp#: 15  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

23 Methyl acetate, CAS: 79-20-9

Signal: 1

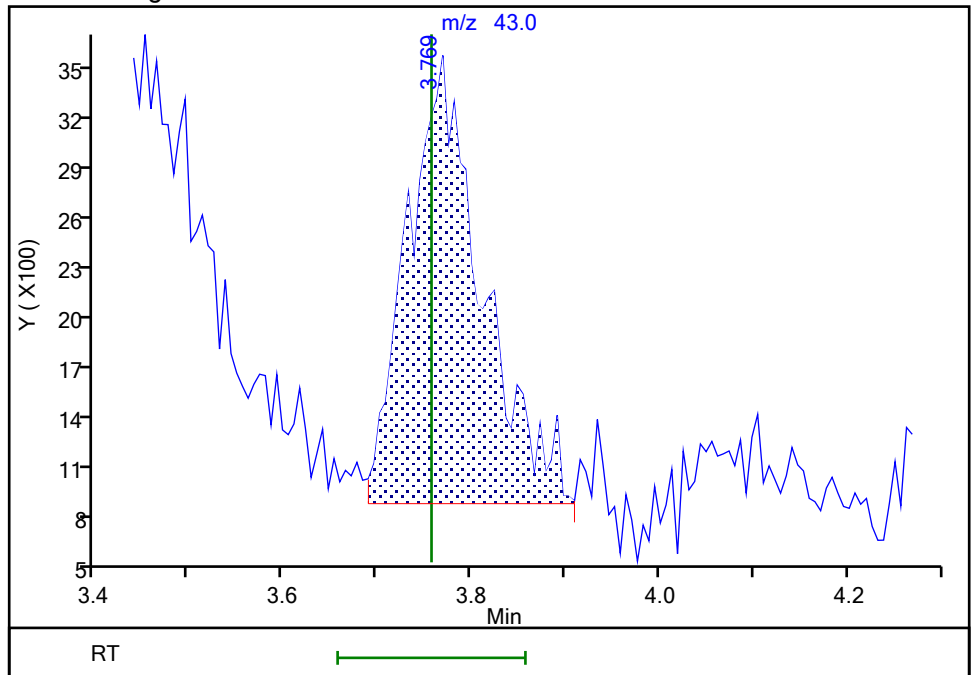
RT: 3.77  
Area: 20787  
Amount: 1.131048  
Amount Units: ug/l

Processing Integration Results



RT: 3.77  
Area: 14418  
Amount: 0.914576  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:55:31 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

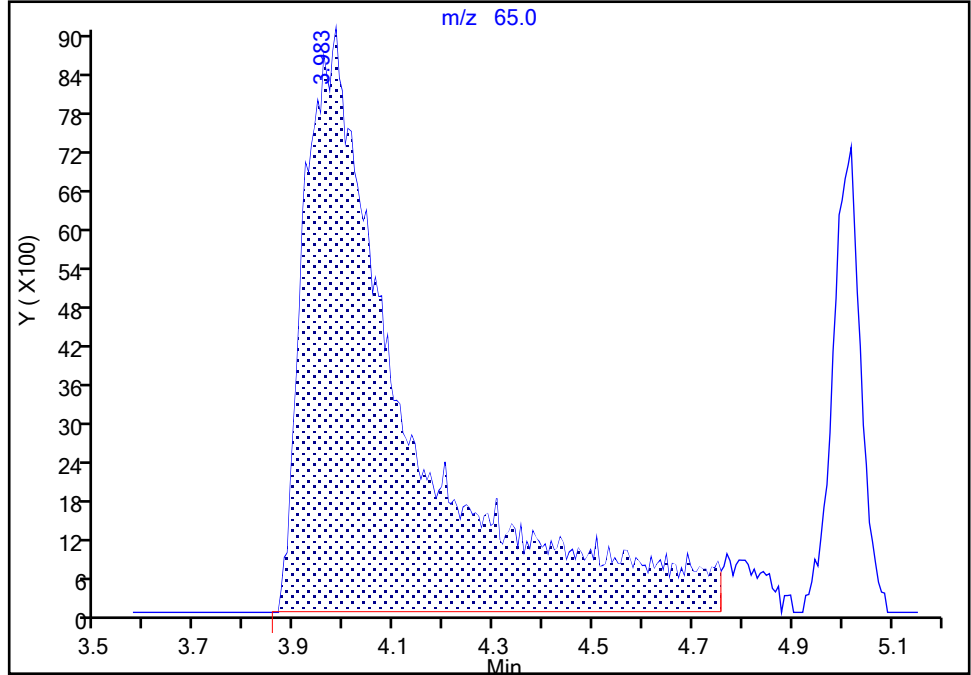
Eurofins Lancaster Laboratories Environment Testing, LLC

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Injection Date: 19-Jun-2023 19:01:30 Instrument ID: 19930  
Lims ID: IC std3  
Client ID:  
Operator ID: KNK41612 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

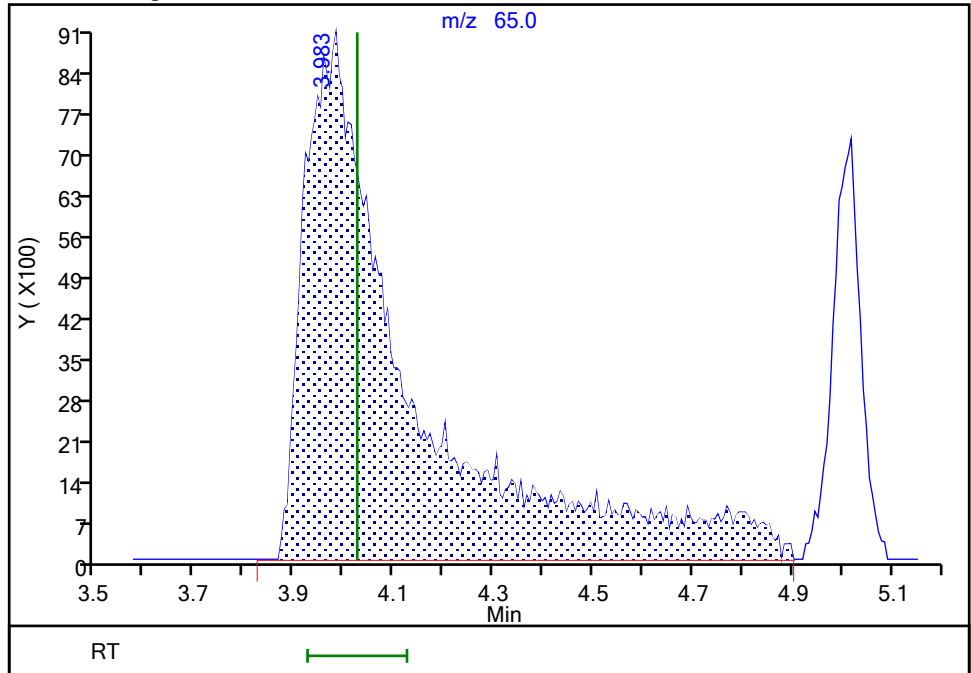
RT: 3.98  
Area: 128785  
Amount: 50.000000  
Amount Units: ug/l

Processing Integration Results



RT: 3.98  
Area: 133555  
Amount: 50.000000  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:55:40 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

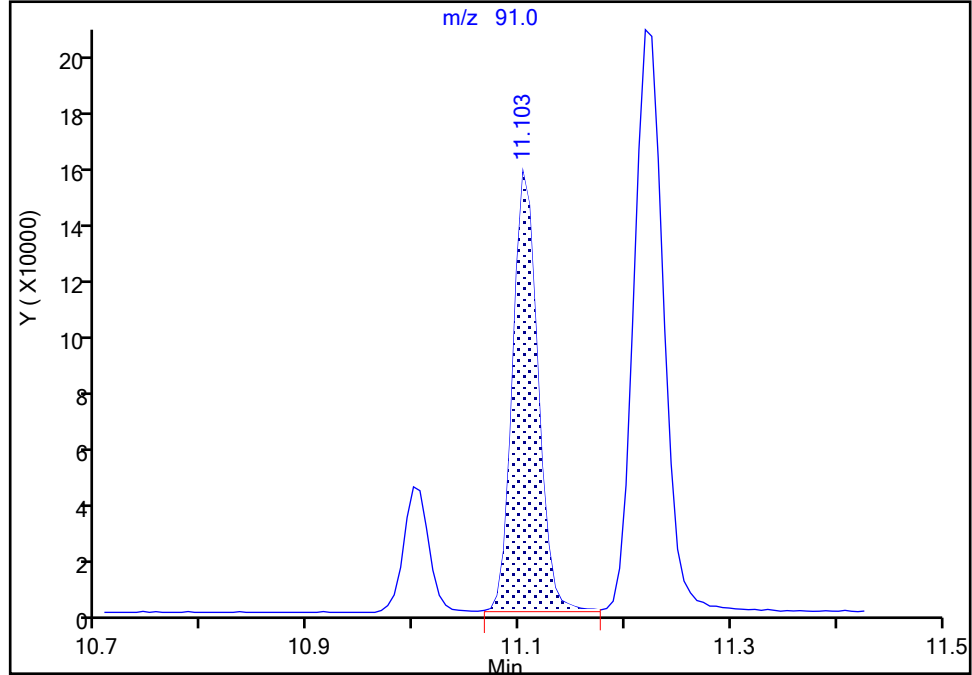
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Injection Date: 19-Jun-2023 19:01:30 Instrument ID: 19930  
Lims ID: IC std3  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 14 Worklist Smp#: 15  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

108 1-Chlorohexane, CAS: 544-10-5

Signal: 1

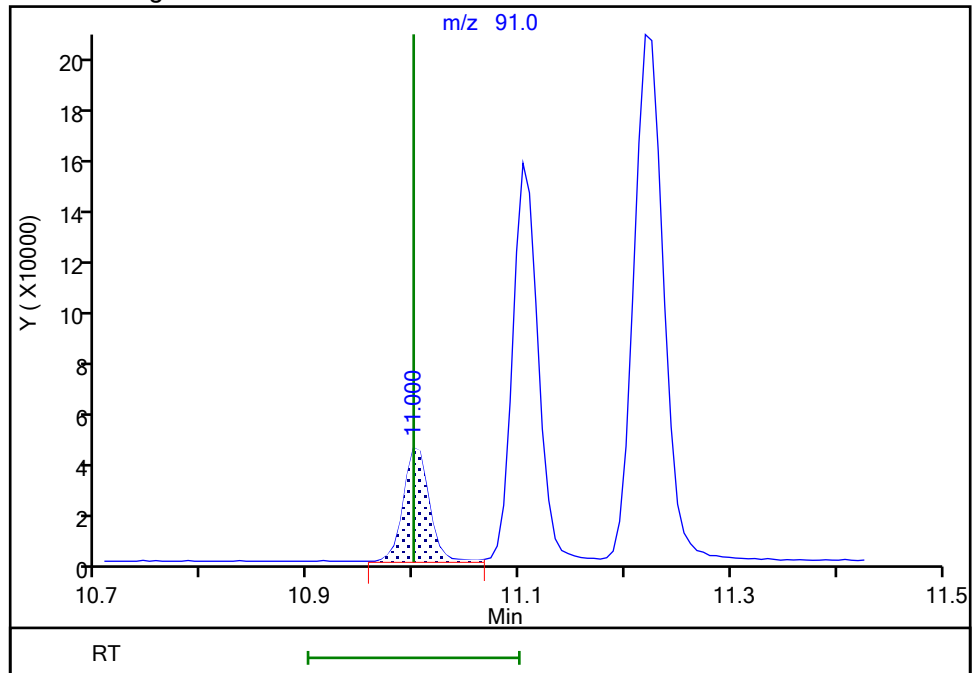
RT: 11.10  
Area: 262649  
Amount: 1.166835  
Amount Units: ug/l

Processing Integration Results



RT: 11.00  
Area: 75197  
Amount: 0.901091  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 22-Jun-2023 07:47:42 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

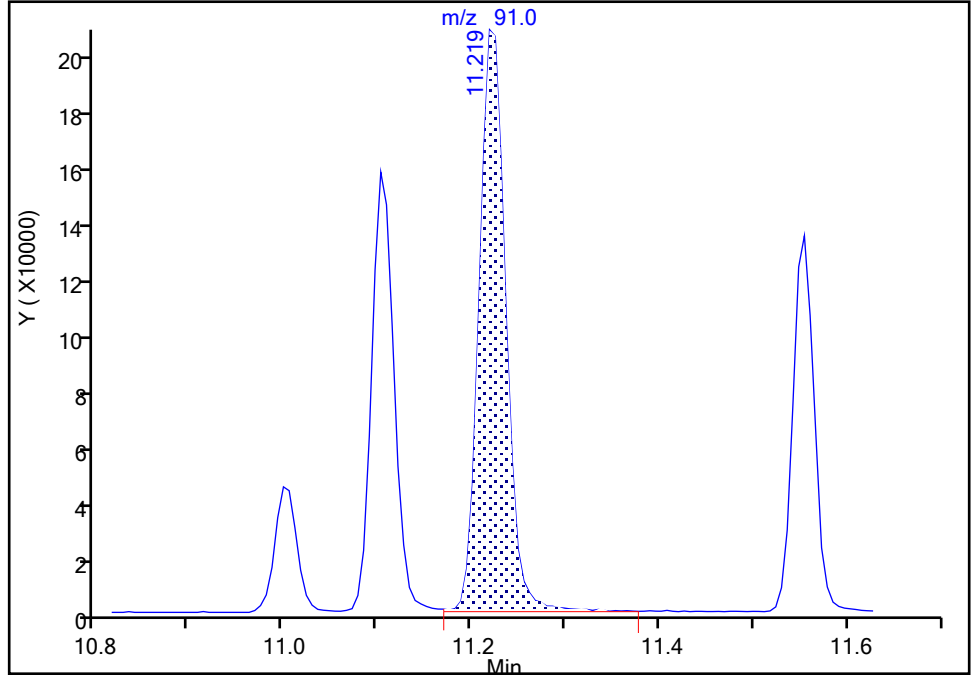
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Injection Date: 19-Jun-2023 19:01:30 Instrument ID: 19930  
Lims ID: IC std3  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 14 Worklist Smp#: 15  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

112 Ethylbenzene, CAS: 100-41-4

Signal: 1

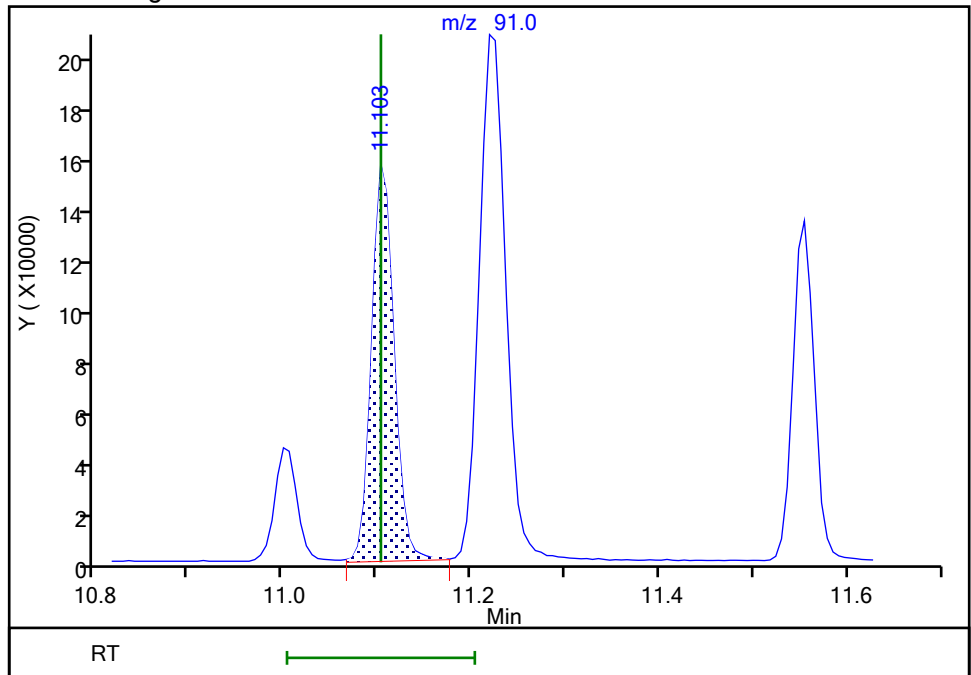
RT: 11.22  
Area: 410800  
Amount: 1.054612  
Amount Units: ug/l

Processing Integration Results



RT: 11.10  
Area: 262649  
Amount: 0.939871  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 15:34:29 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration



Eurofins Lancaster Laboratories Environment Testing, LLC

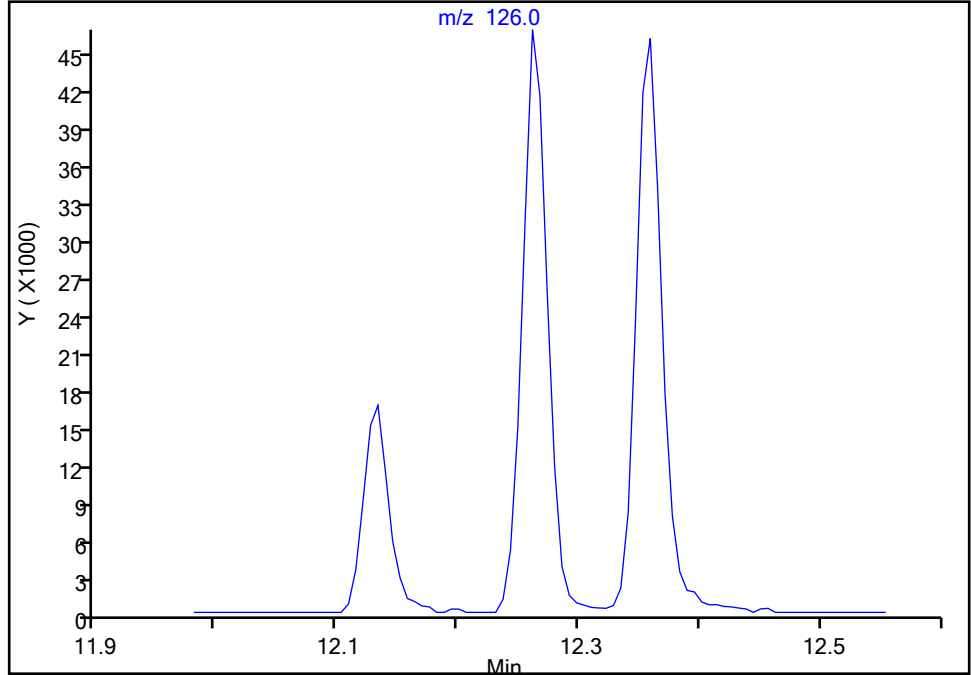
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Injection Date: 19-Jun-2023 19:01:30 Instrument ID: 19930  
Lims ID: IC std3  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 14 Worklist Smp#: 15  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

126 2-Chlorotoluene, CAS: 95-49-8

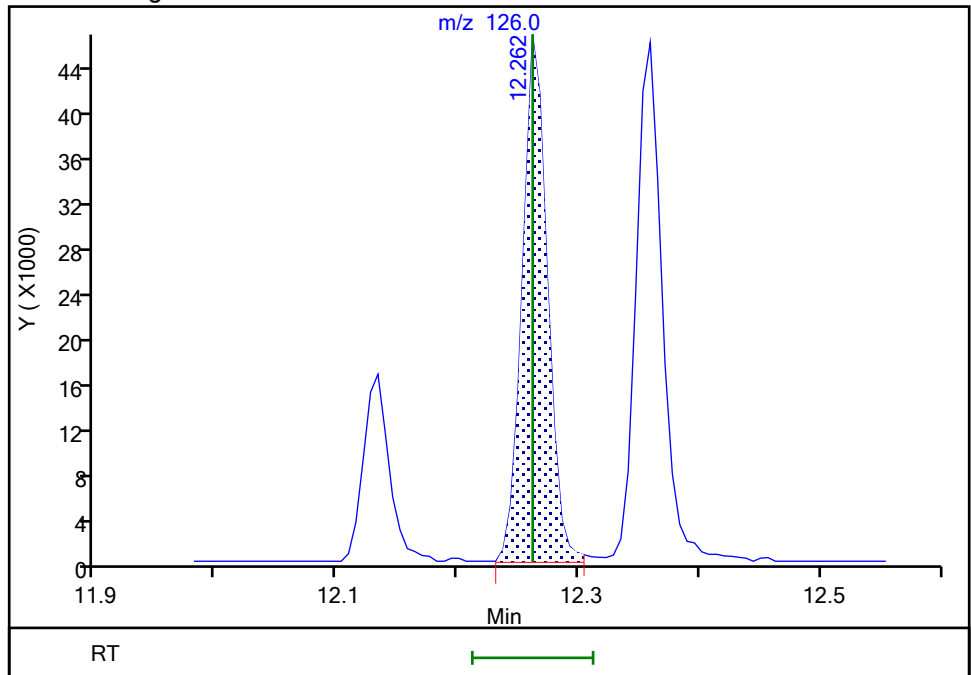
Signal: 1

Not Detected  
Expected RT: 12.26

Processing Integration Results



Manual Integration Results



RT: 12.26  
Area: 67323  
Amount: 0.951249  
Amount Units: ug/l

Reviewer: DVW2, 21-Jun-2023 15:34:24 -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\20230619-86929.b\IU19X15.D  
 Lims ID: IC std4  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 19-Jun-2023 19:22:30 ALS Bottle#: 15 Worklist Smp#: 16  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0086929-016  
 Misc. Info.: LG 2.0  
 Operator ID: KNK41612 Instrument ID: 19930  
 Sublist: chrom-8260 25ml HP31\*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 27-Jun-2023 12:30:21 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D

Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1687

First Level Reviewer: DVW2

Date: 21-Jun-2023 08:05:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.849	1.855	-0.006	99	153092	2.00	2.12	
4 Chloromethane	50	2.038	2.050	-0.012	99	148627	2.00	2.03	
5 Vinyl chloride	62	2.148	2.160	-0.012	77	144284	2.00	2.06	
6 Butadiene	39	2.148	2.160	-0.012	90	138958	2.00	1.89	
7 Bromomethane	94	2.459	2.465	-0.006	90	109113	2.00	1.99	
8 Chloroethane	64	2.532	2.538	-0.006	100	84063	2.00	2.00	
9 Dichlorofluoromethane	67	2.757	2.764	-0.007	97	227201	2.00	1.94	
10 Trichlorofluoromethane	101	2.818	2.824	-0.006	95	185589	2.00	2.08	
11 Ethyl ether	59	3.038	3.050	-0.012	89	71951	2.00	1.95	
13 1,2-Dichloro-1,1,2-trifluoroethane	67	3.129	3.142	-0.013	89	125946	2.00	1.98	
14 Acrolein	56	3.202	3.209	-0.007	98	572441	100.0	104.0	
15 1,1-Dichloroethene	96	3.324	3.337	-0.013	97	95792	2.00	1.98	
16 Acetone	43	3.355	3.361	-0.006	76	123579	20.0	20.3	
17 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.379	3.385	-0.006	90	103962	2.00	2.03	
18 Iodomethane	142	3.513	3.526	-0.013	99	207682	2.00	2.04	
19 Ethyl bromide	108	3.538	3.550	-0.012	99	80536	2.00	1.90	
20 Carbon disulfide	76	3.617	3.629	-0.012	99	265233	2.00	2.02	
23 Methyl acetate	43	3.757	3.757	0.000	24	29888	2.00	1.99	M
24 3-Chloro-1-propene	41	3.769	3.782	-0.013	91	148700	2.00	1.98	
25 Methylene Chloride	84	3.952	3.958	-0.006	89	101250	2.00	1.98	
* 26 t-Butyl alcohol-d10 (IS)	65	3.971	4.025	-0.054	96	127135	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.099	4.093	0.006	99	99365	40.0	41.1	
28 Acrylonitrile	53	4.281	4.282	-0.001	97	42468	5.00	5.75	
29 Methyl tert-butyl ether	73	4.336	4.342	-0.006	94	267433	2.00	2.02	
30 trans-1,2-Dichloroethene	96	4.349	4.355	-0.006	98	109363	2.00	2.03	
31 Hexane	57	4.769	4.781	-0.012	91	138409	2.00	1.96	
32 1,1-Dichloroethane	63	5.007	5.013	-0.006	96	188062	2.00	2.04	
35 Isopropyl ether	45	5.068	5.074	-0.006	92	305304	2.00	2.02	
36 2-Chloro-1,3-butadiene	53	5.117	5.123	-0.006	90	157183	2.00	2.04	
37 Tert-butyl ethyl ether	59	5.611	5.623	-0.013	96	293761	2.00	2.03	

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	5.806	5.812	-0.006	100	242793	20.0	20.7	
39 cis-1,2-Dichloroethene	96	5.848	5.854	-0.006	81	121238	2.00	2.03	
40 2,2-Dichloropropane	77	5.854	5.867	-0.013	71	169485	2.00	2.04	
43 Propionitrile	54	5.897	5.891	0.006	98	137306	40.0	44.3	
45 Methacrylonitrile	67	6.110	6.110	0.000	90	255367	20.0	20.9	
S 41 1,2-Dichloroethene, Total	100				0			4.06	
46 Chlorobromomethane	128	6.184	6.190	-0.006	86	54957	2.00	2.02	
47 Tetrahydrofuran	71	6.196	6.196	0.000	78	39125	10.0	10.1	
48 Chloroform	83	6.336	6.342	-0.006	93	195036	2.00	2.05	
\$ 49 Dibromofluoromethane (Surr)	113	6.555	6.555	0.000	95	459886	10.0	9.93	
50 1,1,1-Trichloroethane	97	6.555	6.568	-0.013	54	180779	2.00	2.03	
51 Cyclohexane	56	6.659	6.671	-0.012	89	169296	2.00	2.01	
54 Carbon tetrachloride	117	6.775	6.781	-0.006	96	161435	2.00	2.04	
53 1,1-Dichloropropene	75	6.775	6.781	-0.006	95	143481	2.00	2.03	
55 Isobutyl alcohol	41	6.946	6.940	0.006	93	77021	100.0	89.6	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.007	7.013	-0.006	83	92053	10.0	10.0	
57 Benzene	78	7.037	7.043	-0.006	96	433294	2.00	2.04	
58 1,2-Dichloroethane	62	7.110	7.116	-0.006	97	114498	2.00	1.98	
60 Tert-amyl methyl ether	73	7.238	7.244	-0.006	98	268420	2.00	2.01	
* 61 Fluorobenzene (IS)	96	7.446	7.445	0.001	99	1802566	10.0	10.0	
62 n-Heptane	43	7.464	7.470	-0.006	92	130745	2.00	1.93	
63 n-Butanol	56	7.848	7.836	0.012	87	112349	175.0	170.2	
64 Trichloroethene	95	7.927	7.933	-0.006	96	119866	2.00	2.02	
65 Methylcyclohexane	83	8.244	8.244	0.000	90	193464	2.00	2.02	
66 1,2-Dichloropropane	63	8.262	8.269	-0.007	96	106323	2.00	2.02	
67 Methyl methacrylate	69	8.360	8.354	0.006	89	49293	2.00	2.05	
68 1,4-Dioxane	88	8.372	8.366	0.006	30	13925	100.0	99.3	M
69 Dibromomethane	93	8.378	8.378	0.000	93	54174	2.00	2.05	
71 Dichlorobromomethane	83	8.616	8.616	0.000	99	137781	2.00	2.01	
72 2-Nitropropane	41	8.884	8.884	0.000	98	74299	10.0	9.43	
75 1-Bromo-2-chloroethane	63	9.006	9.012	-0.006	98	103572	2.00	1.93	
76 cis-1,3-Dichloropropene	75	9.177	9.177	0.000	97	166986	2.00	2.03	
77 4-Methyl-2-pentanone (MIBK)	43	9.360	9.360	0.000	96	654051	20.0	20.8	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.500	-0.006	93	1822022	10.0	10.0	
79 Toluene	92	9.573	9.579	-0.006	99	296153	2.00	2.07	
97 trans-1,3-Dichloropropene	75	9.847	9.848	-0.001	92	136143	2.00	2.01	
99 Ethyl methacrylate	69	9.915	9.915	0.000	89	112647	2.00	2.02	
100 1,1,2-Trichloroethane	97	10.055	10.055	0.000	90	81347	2.00	2.01	
S 98 1,3-Dichloropropene, Total	100				0			4.05	
101 Tetrachloroethene	166	10.140	10.146	-0.006	97	152617	2.00	2.04	
102 1,3-Dichloropropane	76	10.219	10.219	0.000	90	130340	2.00	2.04	
103 2-Hexanone	43	10.274	10.274	0.000	96	459845	20.0	20.7	
105 Chlorodibromomethane	129	10.439	10.439	0.000	89	106469	2.00	2.02	
106 Ethylene Dibromide	107	10.549	10.549	0.000	99	77070	2.00	2.02	
* 107 Chlorobenzene-d5 (IS)	117	10.988	10.987	0.001	84	1411844	10.0	10.0	
108 1-Chlorohexane	91	11.000	11.000	0.000	94	164067	2.00	1.97	a
109 Chlorobenzene	112	11.018	11.018	0.000	97	343177	2.00	2.05	
111 1,1,1,2-Tetrachloroethane	131	11.097	11.097	0.000	95	121541	2.00	2.04	
112 Ethylbenzene	91	11.103	11.103	0.000	98	568378	2.00	2.04	a
113 m-Xylene & p-Xylene	106	11.219	11.219	0.000	93	464338	4.00	4.11	
S 110 Xylenes, Total	106				0			6.16	
114 o-Xylene	106	11.554	11.554	0.000	95	228364	2.00	2.05	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Styrene	104	11.573	11.567	0.006	95	365726	2.00	2.04	
116 Bromoform	173	11.725	11.725	0.000	97	69013	2.00	2.02	
117 Isopropylbenzene	105	11.853	11.859	-0.006	95	594828	2.00	2.06	
\$ 120 4-Bromofluorobenzene (Surr)	95	12.000	12.000	0.000	96	688953	10.0	10.1	
121 1,1,2,2-Tetrachloroethane	83	12.103	12.103	0.000	93	103555	2.00	2.00	
122 Bromobenzene	156	12.115	12.115	0.000	94	152143	2.00	2.03	
123 trans-1,4-Dichloro-2-butene	53	12.128	12.128	0.000	93	248485	20.0	21.0	
124 1,2,3-Trichloropropane	110	12.152	12.146	0.006	82	29265	2.00	2.01	
125 N-Propylbenzene	91	12.188	12.189	-0.001	98	671294	2.00	2.03	
126 2-Chlorotoluene	126	12.262	12.262	0.000	98	148498	2.00	2.05	a
127 1,3,5-Trimethylbenzene	105	12.323	12.323	0.000	94	512246	2.00	2.03	
128 4-Chlorotoluene	126	12.359	12.353	0.006	96	153069	2.00	2.06	
129 tert-Butylbenzene	134	12.566	12.566	0.000	92	124089	2.00	2.04	
130 Pentachloroethane	167	12.597	12.597	0.000	90	89999	2.00	1.92	
131 1,2,4-Trimethylbenzene	105	12.609	12.609	0.000	96	524551	2.00	2.02	
132 sec-Butylbenzene	105	12.731	12.731	0.000	93	659131	2.00	2.05	
133 1,3-Dichlorobenzene	146	12.829	12.829	0.000	99	299493	2.00	2.05	
134 4-Isopropyltoluene	119	12.841	12.841	0.000	97	587493	2.00	2.05	
* 135 1,4-Dichlorobenzene-d4	152	12.883	12.883	0.000	93	870354	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.902	12.902	0.000	97	293178	2.00	2.03	
137 1,2,3-Trimethylbenzene	120	12.914	12.914	0.000	98	237548	2.00	2.03	
138 Benzyl chloride	126	12.981	12.981	0.000	98	45949	2.00	2.06	
139 n-Butylbenzene	92	13.133	13.133	0.000	97	259442	2.00	2.02	
140 1,2-Dichlorobenzene	146	13.164	13.158	0.006	99	279095	2.00	2.03	
142 1,2-Dibromo-3-Chloropropane	155	13.706	13.700	0.006	91	17537	2.00	2.07	
143 1,3,5-Trichlorobenzene	180	13.828	13.828	0.000	97	223971	2.00	2.04	
144 1,2,4-Trichlorobenzene	180	14.255	14.249	0.006	94	182141	2.00	2.06	
145 Hexachlorobutadiene	225	14.334	14.334	0.000	95	86860	2.00	2.02	
146 Naphthalene	128	14.432	14.426	0.006	96	330200	2.00	2.05	
147 1,2,3-Trichlorobenzene	180	14.572	14.572	0.000	96	150086	2.00	2.03	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
165 Isopropyl alcohol	45		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_00081	Amount Added: 2.00	Units: uL	
MSV_LL_#2_826_00093	Amount Added: 2.00	Units: uL	
MSV_LL_GAS826_00156	Amount Added: 2.00	Units: uL	
MSV_LLcentISS_00007	Amount Added: 5.00	Units: uL	Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X15.D

Injection Date: 19-Jun-2023 19:22:30

Instrument ID: 19930

Operator ID: KNK41612

Lims ID: IC std4

Worklist Smp#: 16

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

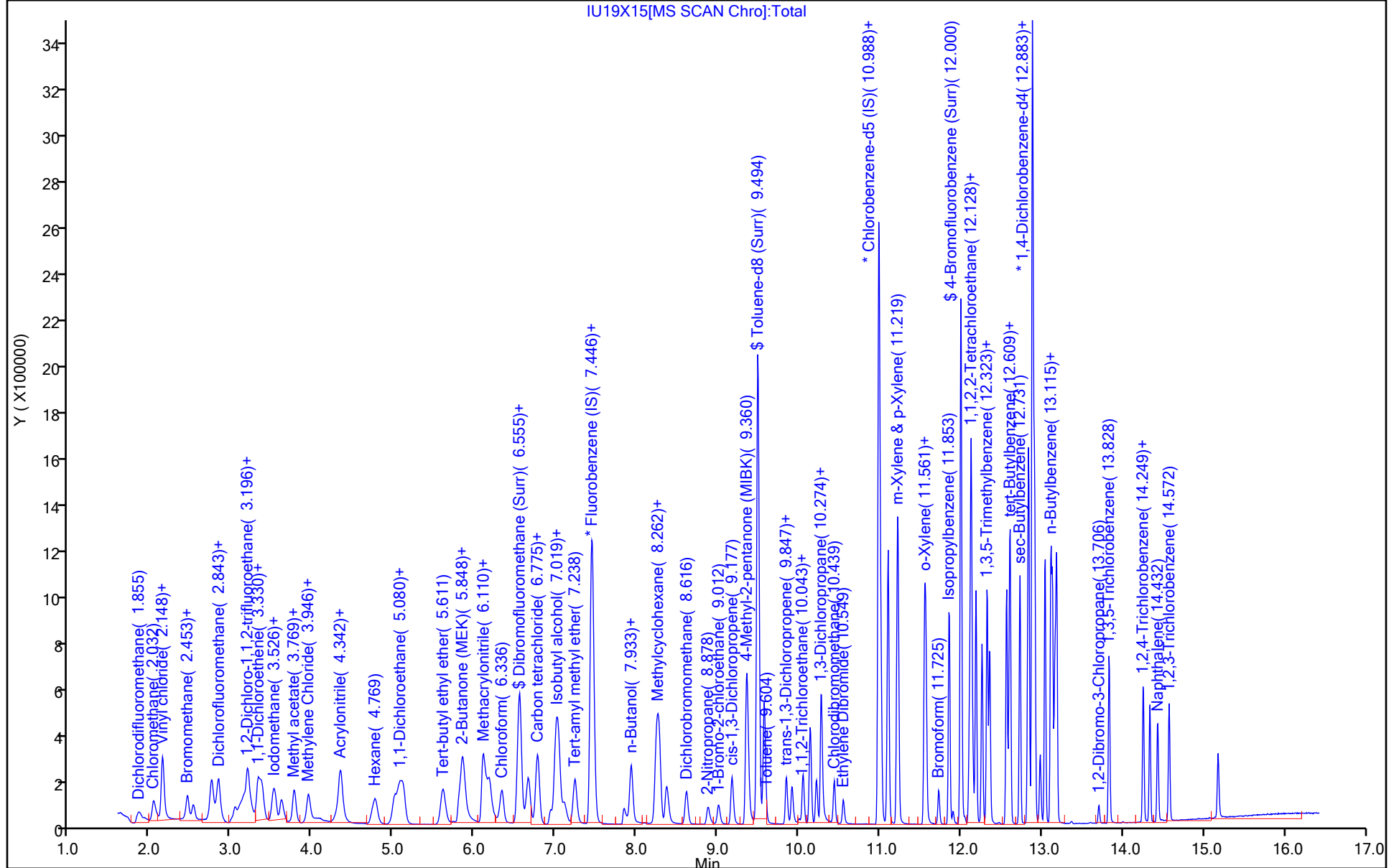
ALS Bottle#: 15

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



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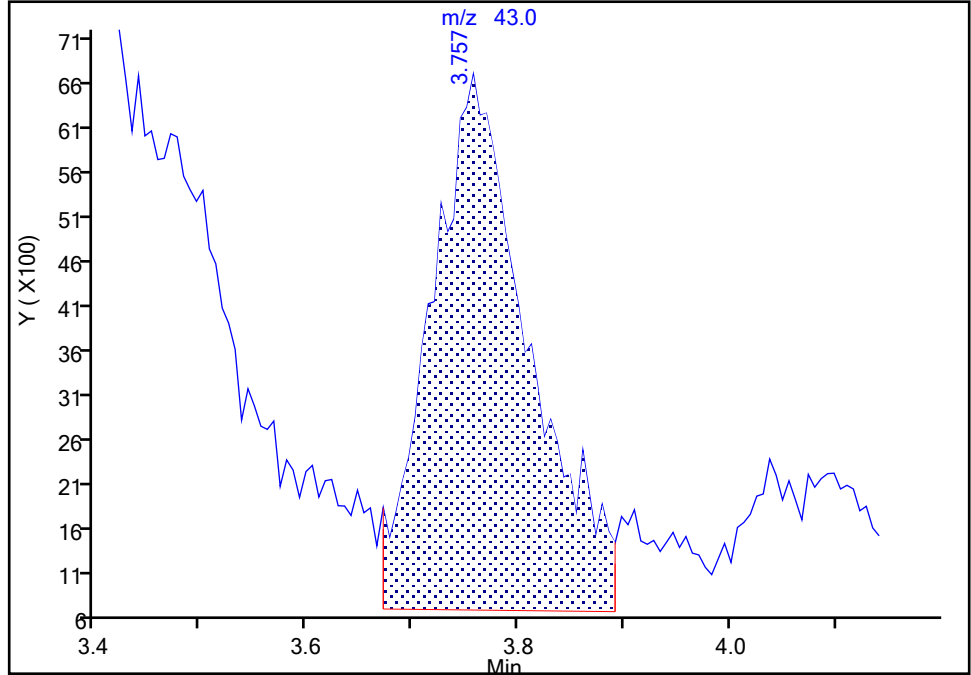
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Injection Date: 19-Jun-2023 19:22:30 Instrument ID: 19930  
Lims ID: IC std4  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 15 Worklist Smp#: 16  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

23 Methyl acetate, CAS: 79-20-9

Signal: 1

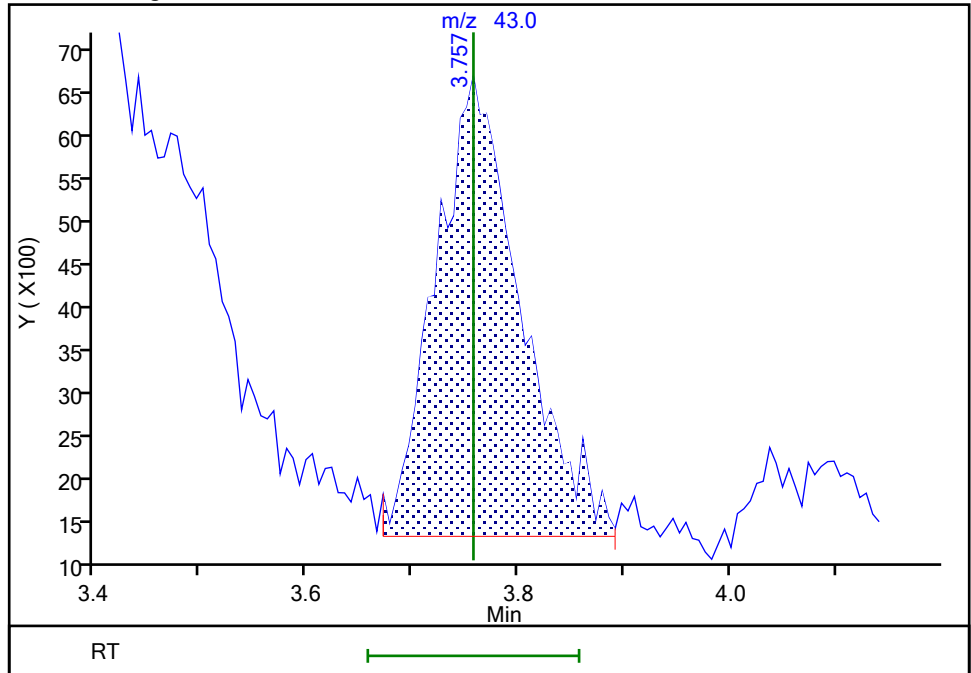
RT: 3.76  
Area: 38847  
Amount: 2.303021  
Amount Units: ug/l

Processing Integration Results



RT: 3.76  
Area: 29888  
Amount: 1.991620  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 08:04:18 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

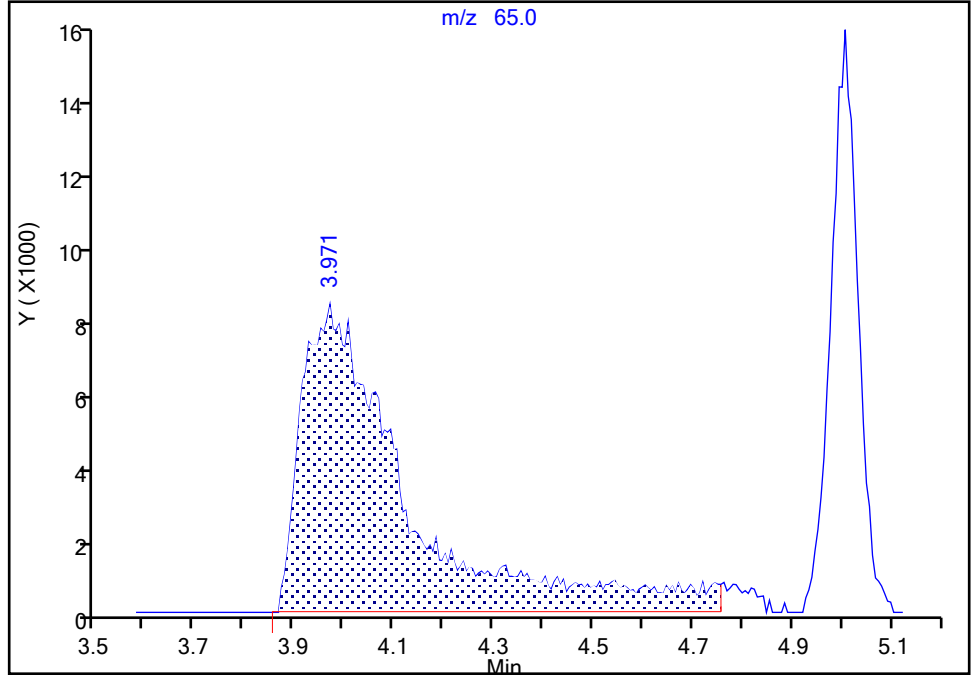
Eurofins Lancaster Laboratories Environment Testing, LLC

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Injection Date: 19-Jun-2023 19:22:30 Instrument ID: 19930  
Lims ID: IC std4  
Client ID:  
Operator ID: KNK41612 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

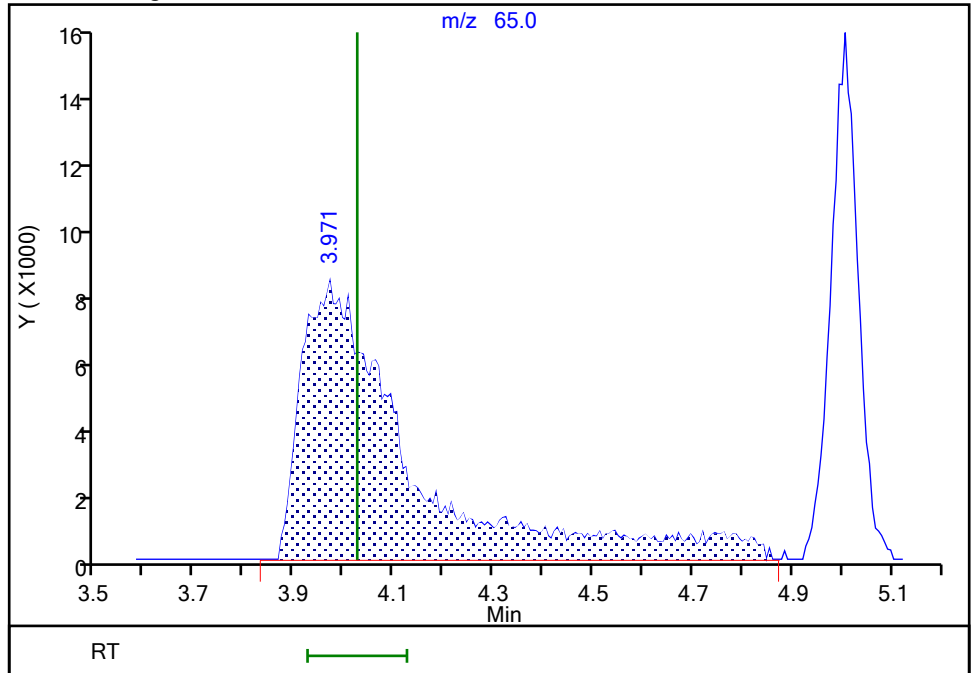
RT: 3.97  
Area: 123899  
Amount: 50.000000  
Amount Units: ug/l

Processing Integration Results



RT: 3.97  
Area: 127135  
Amount: 50.000000  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 08:04:29 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

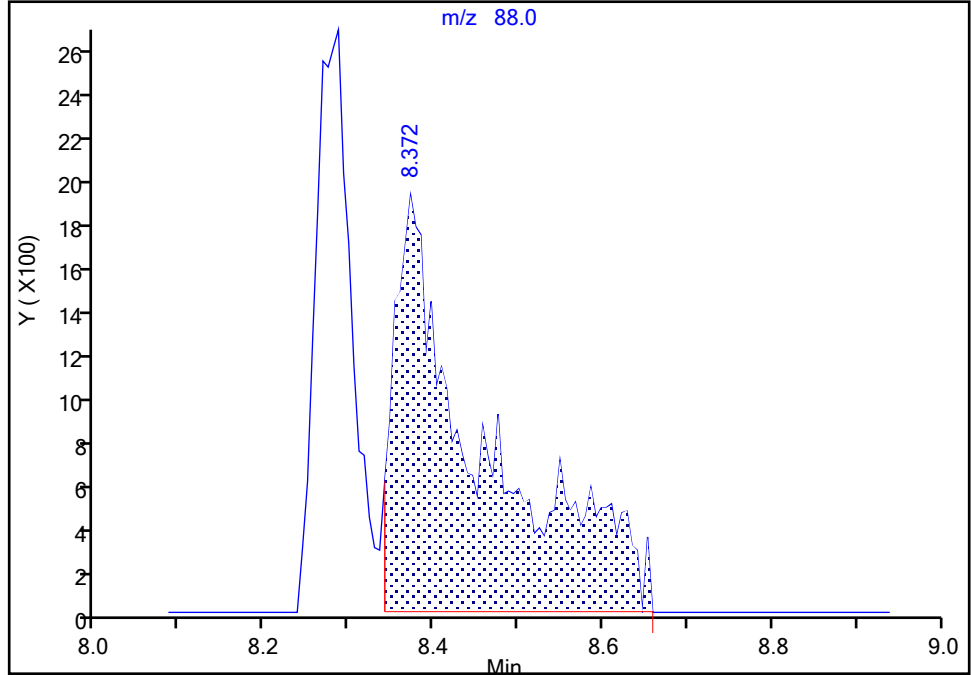
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Lims ID: IC std4  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 15 Worklist Smp#: 16  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

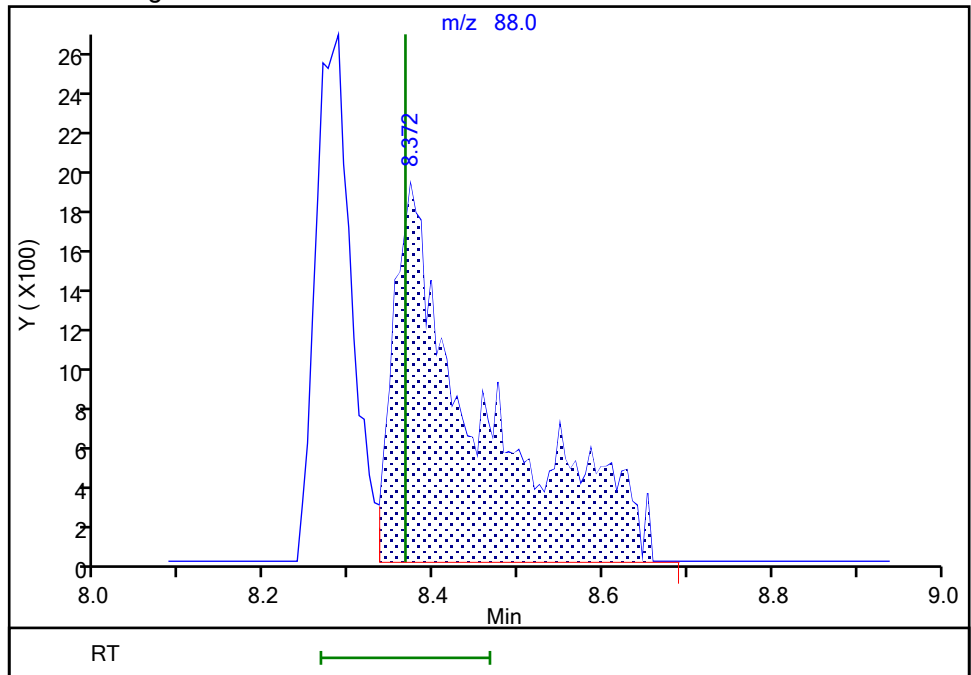
RT: 8.37  
Area: 13819  
Amount: 104.2969  
Amount Units: ug/l

Processing Integration Results



RT: 8.37  
Area: 13925  
Amount: 99.329922  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 08:04:56 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration



Eurofins Lancaster Laboratories Environment Testing, LLC

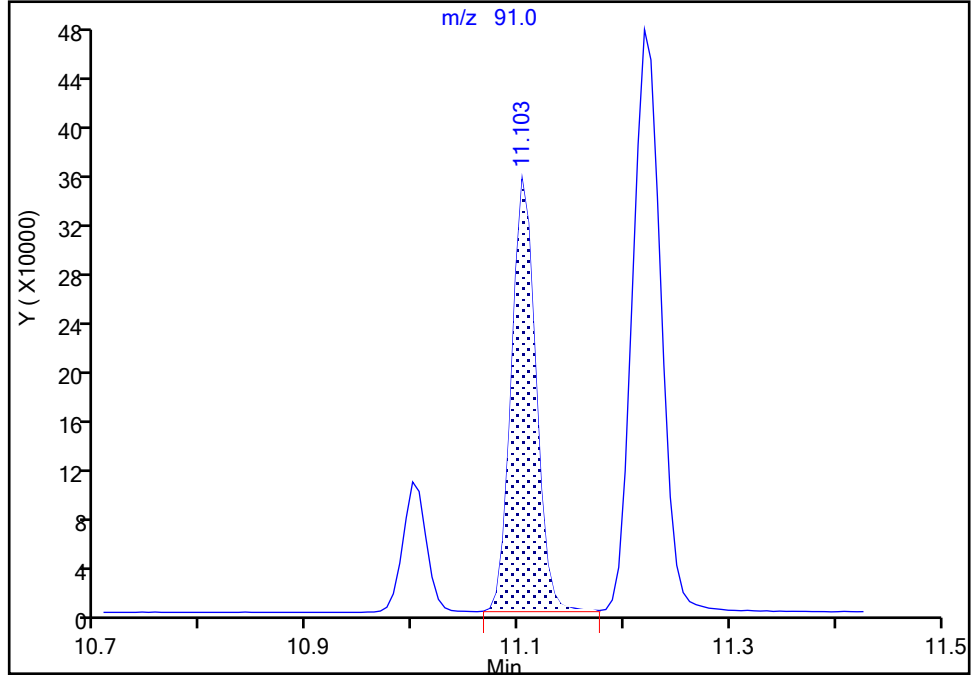
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Injection Date: 19-Jun-2023 19:22:30 Instrument ID: 19930  
Lims ID: IC std4  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 15 Worklist Smp#: 16  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

108 1-Chlorohexane, CAS: 544-10-5

Signal: 1

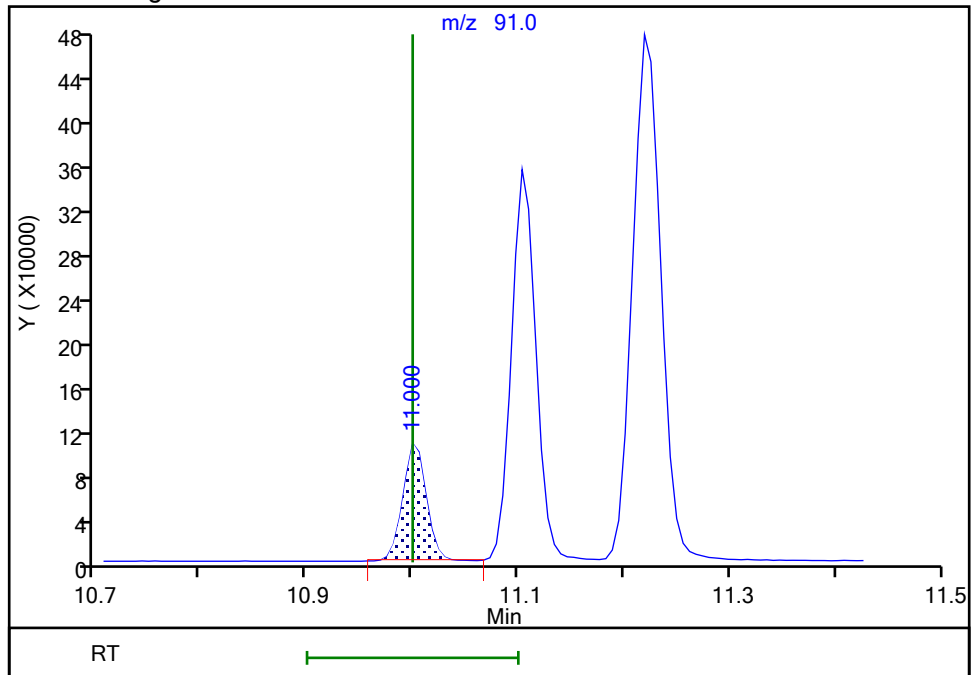
RT: 11.10  
Area: 568378  
Amount: 2.870285  
Amount Units: ug/l

Processing Integration Results



RT: 11.00  
Area: 164067  
Amount: 1.968956  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 22-Jun-2023 07:47:52 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

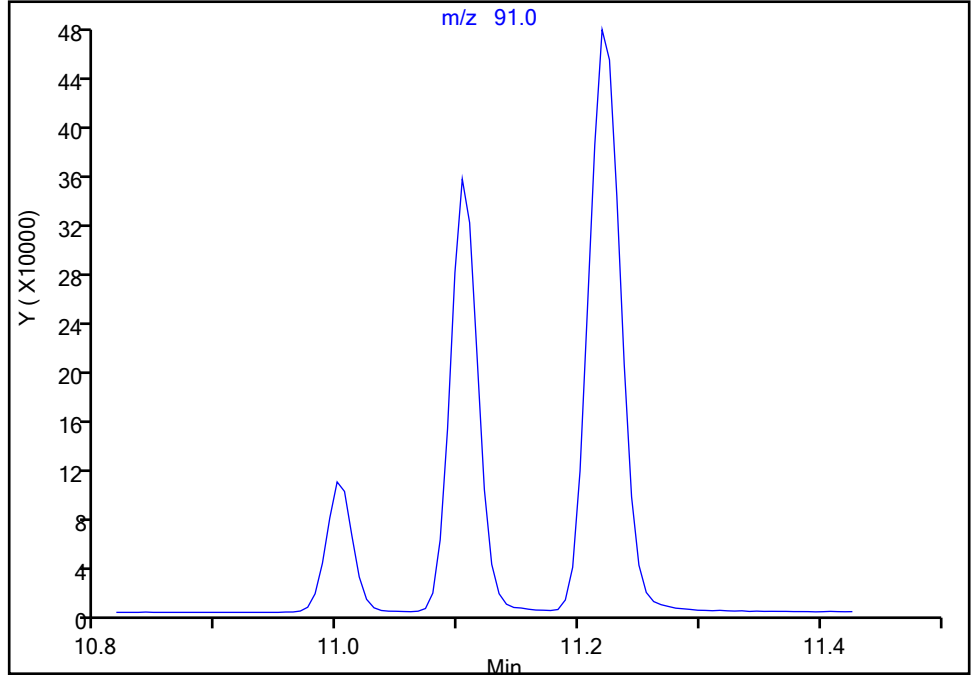
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Injection Date: 19-Jun-2023 19:22:30 Instrument ID: 19930  
Lims ID: IC std4  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 15 Worklist Smp#: 16  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

112 Ethylbenzene, CAS: 100-41-4

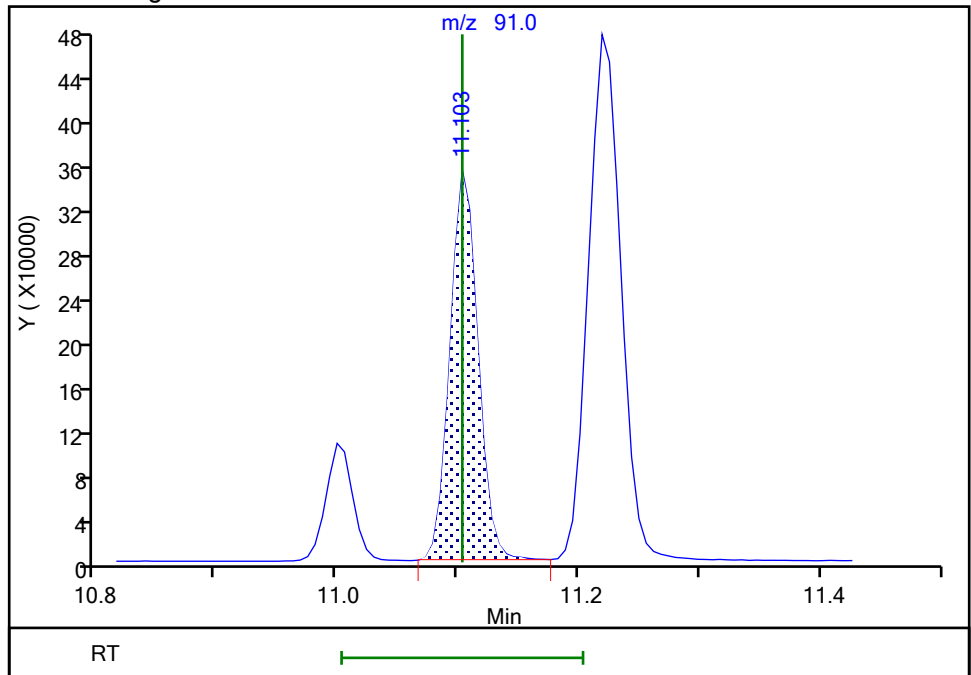
Signal: 1

Not Detected  
Expected RT: 11.10

Processing Integration Results



Manual Integration Results



RT: 11.10  
Area: 568378  
Amount: 2.036930  
Amount Units: ug/l

Reviewer: DVW2, 21-Jun-2023 15:35:00 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

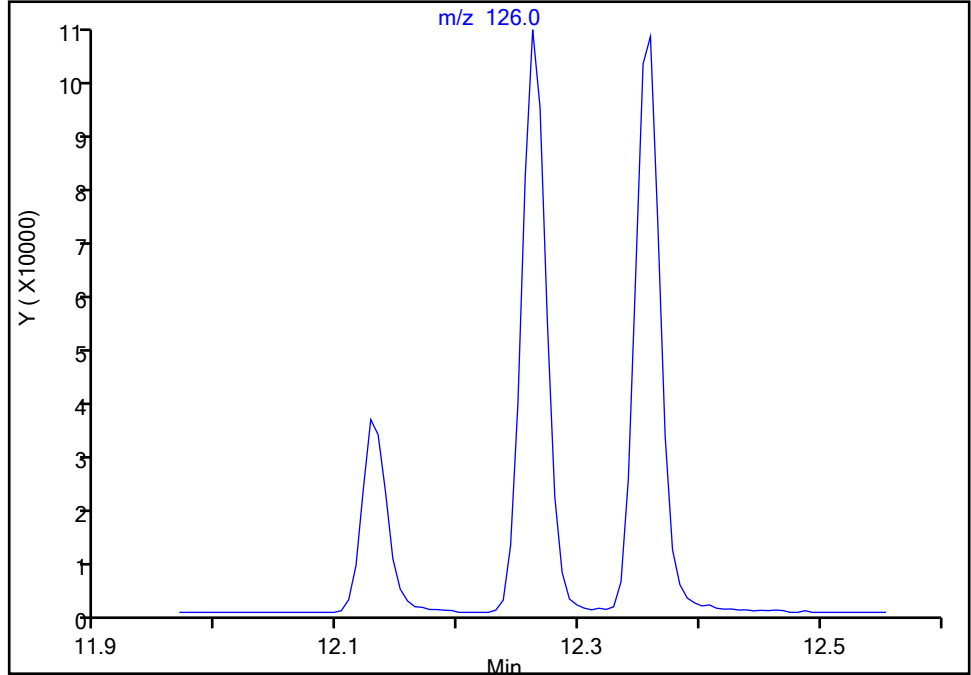
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Lims ID: IC std4  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 15 Worklist Smp#: 16  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

126 2-Chlorotoluene, CAS: 95-49-8

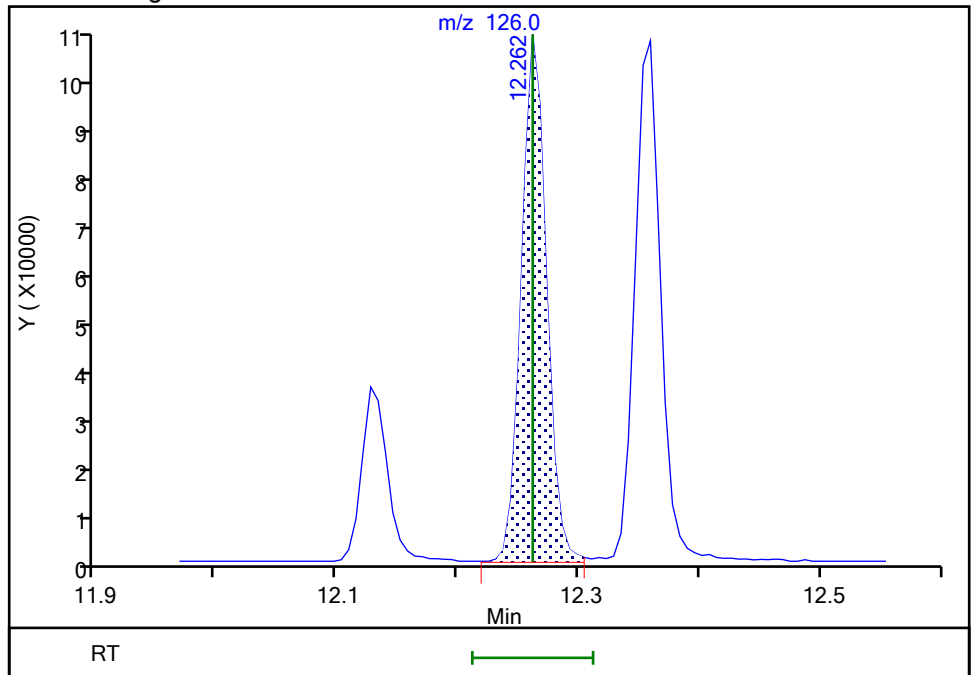
Signal: 1

Not Detected  
Expected RT: 12.26

Processing Integration Results



Manual Integration Results



RT: 12.26  
Area: 148498  
Amount: 2.051768  
Amount Units: ug/l

Reviewer: DVW2, 21-Jun-2023 15:35:10 -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\20230619-86929.b\IU19X16.D  
 Lims ID: IC std5  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 19-Jun-2023 19:42:30 ALS Bottle#: 16 Worklist Smp#: 17  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0086929-017  
 Misc. Info.: LG 5.0  
 Operator ID: KNK41612 Instrument ID: 19930  
 Sublist: chrom-8260 25ml HP31\*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 27-Jun-2023 12:30:27 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D

Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1687

First Level Reviewer: DVW2

Date: 21-Jun-2023 08:07:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.849	1.855	-0.006	99	360756	5.00	4.84	
4 Chloromethane	50	2.044	2.050	-0.006	99	355971	5.00	4.70	
5 Vinyl chloride	62	2.148	2.160	-0.012	97	346234	5.00	4.78	
6 Butadiene	39	2.154	2.160	-0.006	90	325681	5.00	4.30	
7 Bromomethane	94	2.459	2.465	-0.006	91	265387	5.00	4.69	
8 Chloroethane	64	2.532	2.538	-0.006	100	204756	5.00	4.73	
9 Dichlorofluoromethane	67	2.757	2.764	-0.007	97	549690	5.00	4.55	
10 Trichlorofluoromethane	101	2.818	2.824	-0.006	97	454389	5.00	4.93	
11 Ethyl ether	59	3.044	3.050	-0.006	89	187410	5.00	4.92	
13 1,2-Dichloro-1,1,2-trifluoroethane	67	3.129	3.142	-0.013	88	308465	5.00	4.69	
14 Acrolein	56	3.196	3.209	-0.013	98	1460333	250.0	242.2	
15 1,1-Dichloroethene	96	3.330	3.337	-0.007	97	252853	5.00	5.07	
16 Acetone	43	3.361	3.361	0.000	100	325042	50.0	48.8	
17 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.379	3.385	-0.006	91	285989	5.00	5.40	
18 Iodomethane	142	3.519	3.526	-0.007	99	535229	5.00	5.10	
19 Ethyl bromide	108	3.544	3.550	-0.006	99	210130	5.00	4.81	
20 Carbon disulfide	76	3.623	3.629	-0.006	99	686699	5.00	5.07	
23 Methyl acetate	43	3.757	3.757	0.000	96	83849	5.00	5.10	M
24 3-Chloro-1-propene	41	3.775	3.782	-0.007	91	382363	5.00	4.93	
25 Methylene Chloride	84	3.952	3.958	-0.006	89	263546	5.00	5.00	
* 26 t-Butyl alcohol-d10 (IS)	65	3.983	4.025	-0.042	96	139221	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.080	4.093	-0.013	100	284492	100.0	107.4	
28 Acrylonitrile	53	4.269	4.282	-0.013	98	114187	12.5	14.1	
29 Methyl tert-butyl ether	73	4.336	4.342	-0.006	94	674458	5.00	4.92	
30 trans-1,2-Dichloroethene	96	4.342	4.355	-0.013	98	279615	5.00	5.03	
31 Hexane	57	4.775	4.781	-0.006	91	369911	5.00	5.08	
32 1,1-Dichloroethane	63	5.007	5.013	-0.006	96	486164	5.00	5.11	
35 Isopropyl ether	45	5.068	5.074	-0.006	93	787124	5.00	5.04	
36 2-Chloro-1,3-butadiene	53	5.123	5.123	0.000	90	407363	5.00	5.12	
37 Tert-butyl ethyl ether	59	5.610	5.623	-0.013	96	746447	5.00	5.00	

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	5.806	5.812	-0.006	99	609434	50.0	47.5	
39 cis-1,2-Dichloroethene	96	5.848	5.854	-0.006	81	307184	5.00	4.97	
40 2,2-Dichloropropane	77	5.860	5.867	-0.007	86	435561	5.00	5.08	
43 Propionitrile	54	5.897	5.891	0.006	99	323734	100.0	95.4	
45 Methacrylonitrile	67	6.116	6.110	0.006	90	659307	50.0	49.2	
S 41 1,2-Dichloroethene, Total	100				0			10.0	
46 Chlorobromomethane	128	6.184	6.190	-0.006	86	139749	5.00	4.97	
47 Tetrahydrofuran	71	6.190	6.196	-0.006	78	98820	25.0	23.4	
48 Chloroform	83	6.336	6.342	-0.006	93	497602	5.00	5.06	
\$ 49 Dibromofluoromethane (Surr)	113	6.549	6.555	-0.006	95	481549	10.0	10.1	
50 1,1,1-Trichloroethane	97	6.562	6.568	-0.006	98	472367	5.00	5.15	
51 Cyclohexane	56	6.665	6.671	-0.006	88	460220	5.00	5.29	
54 Carbon tetrachloride	117	6.775	6.781	-0.006	97	428174	5.00	5.24	
53 1,1-Dichloropropene	75	6.781	6.781	0.000	96	376146	5.00	5.15	
55 Isobutyl alcohol	41	6.940	6.940	0.000	95	221312	250.0	235.2	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.000	7.013	-0.013	84	96600	10.0	10.2	
57 Benzene	78	7.037	7.043	-0.006	97	1110945	5.00	5.06	
58 1,2-Dichloroethane	62	7.110	7.116	-0.006	98	300424	5.00	5.04	
60 Tert-amyl methyl ether	73	7.238	7.244	-0.006	98	685739	5.00	4.97	
* 61 Fluorobenzene (IS)	96	7.446	7.445	0.001	98	1860774	10.0	10.0	
62 n-Heptane	43	7.464	7.470	-0.006	91	360420	5.00	5.16	
63 n-Butanol	56	7.836	7.836	0.000	88	343098	437.5	474.7	
64 Trichloroethene	95	7.933	7.933	0.000	96	309932	5.00	5.07	
65 Methylcyclohexane	83	8.244	8.244	0.000	91	524891	5.00	5.32	
66 1,2-Dichloropropane	63	8.262	8.269	-0.007	96	275849	5.00	5.08	
67 Methyl methacrylate	69	8.360	8.354	0.006	87	137311	5.00	5.20	
68 1,4-Dioxane	88	8.360	8.366	-0.006	32	41814	250.0	272.4	M
69 Dibromomethane	93	8.372	8.378	-0.006	91	137376	5.00	5.04	
71 Dichlorobromomethane	83	8.616	8.616	0.000	99	357171	5.00	5.06	
72 2-Nitropropane	41	8.878	8.884	-0.006	98	195361	25.0	22.6	
75 1-Bromo-2-chloroethane	63	9.012	9.012	0.000	98	272020	5.00	4.91	
76 cis-1,3-Dichloropropene	75	9.177	9.177	0.000	97	438752	5.00	5.18	
77 4-Methyl-2-pentanone (MIBK)	43	9.360	9.360	0.000	96	1690397	50.0	49.1	
\$ 78 Toluene-d8 (Surr)	98	9.500	9.500	0.000	93	1907167	10.0	10.0	
79 Toluene	92	9.573	9.579	-0.006	99	767071	5.00	5.11	
97 trans-1,3-Dichloropropene	75	9.841	9.848	-0.007	92	365510	5.00	5.16	
99 Ethyl methacrylate	69	9.915	9.915	0.000	88	295850	5.00	5.05	
100 1,1,2-Trichloroethane	97	10.055	10.055	0.000	90	206782	5.00	4.88	
S 98 1,3-Dichloropropene, Total	100				0			10.3	
101 Tetrachloroethene	166	10.140	10.146	-0.006	98	402350	5.00	5.14	
102 1,3-Dichloropropane	76	10.219	10.219	0.000	89	333810	5.00	4.98	
103 2-Hexanone	43	10.274	10.274	0.000	95	1188293	50.0	48.8	
105 Chlorodibromomethane	129	10.439	10.439	0.000	90	284463	5.00	5.16	
106 Ethylene Dibromide	107	10.549	10.549	0.000	98	201076	5.00	5.03	
* 107 Chlorobenzene-d5 (IS)	117	10.987	10.987	0.000	84	1479531	10.0	10.0	
108 1-Chlorohexane	91	11.000	11.000	0.000	67	432239	5.00	4.95	a
109 Chlorobenzene	112	11.012	11.018	-0.006	97	890297	5.00	5.07	
111 1,1,1,2-Tetrachloroethane	131	11.097	11.097	0.000	95	318029	5.00	5.08	
112 Ethylbenzene	91	11.103	11.103	0.000	98	1483797	5.00	5.07	a
113 m-Xylene & p-Xylene	106	11.219	11.219	0.000	93	1207085	10.0	10.2	
S 110 Xylenes, Total	106				0			15.3	
114 o-Xylene	106	11.554	11.554	0.000	96	591109	5.00	5.06	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Styrene	104	11.567	11.567	0.000	94	965746	5.00	5.14	
116 Bromoform	173	11.725	11.725	0.000	98	185725	5.00	5.19	
117 Isopropylbenzene	105	11.853	11.859	-0.006	95	1555613	5.00	5.13	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.999	12.000	-0.001	96	719841	10.0	10.0	
121 1,1,2,2-Tetrachloroethane	83	12.103	12.103	0.000	93	265162	5.00	4.89	
122 Bromobenzene	156	12.115	12.115	0.000	94	395435	5.00	5.05	
123 trans-1,4-Dichloro-2-butene	53	12.128	12.128	0.000	92	631878	50.0	48.7	
124 1,2,3-Trichloropropane	110	12.146	12.146	0.000	79	73791	5.00	4.85	
125 N-Propylbenzene	91	12.188	12.189	-0.001	98	1803955	5.00	5.20	
126 2-Chlorotoluene	126	12.262	12.262	0.000	98	385471	5.00	5.09	a
127 1,3,5-Trimethylbenzene	105	12.323	12.323	0.000	95	1342032	5.00	5.08	
128 4-Chlorotoluene	126	12.353	12.353	0.000	97	393652	5.00	5.07	
129 tert-Butylbenzene	134	12.566	12.566	0.000	92	322256	5.00	5.08	
130 Pentachloroethane	167	12.597	12.597	0.000	91	248510	5.00	5.06	
131 1,2,4-Trimethylbenzene	105	12.609	12.609	0.000	96	1386678	5.00	5.11	
132 sec-Butylbenzene	105	12.731	12.731	0.000	94	1725161	5.00	5.13	
133 1,3-Dichlorobenzene	146	12.829	12.829	0.000	99	796177	5.00	5.20	
134 4-Isopropyltoluene	119	12.841	12.841	0.000	97	1559110	5.00	5.20	
* 135 1,4-Dichlorobenzene-d4	152	12.883	12.883	0.000	93	910481	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.902	12.902	0.000	96	751794	5.00	4.98	
137 1,2,3-Trimethylbenzene	120	12.914	12.914	0.000	98	620671	5.00	5.06	
138 Benzyl chloride	126	12.981	12.981	0.000	98	118785	5.00	5.10	
139 n-Butylbenzene	92	13.133	13.133	0.000	96	712295	5.00	5.31	
140 1,2-Dichlorobenzene	146	13.158	13.158	0.000	99	728454	5.00	5.07	
142 1,2-Dibromo-3-Chloropropane	155	13.706	13.700	0.006	91	45263	5.00	5.11	
143 1,3,5-Trichlorobenzene	180	13.828	13.828	0.000	97	599184	5.00	5.22	
144 1,2,4-Trichlorobenzene	180	14.249	14.249	0.000	94	483938	5.00	5.24	
145 Hexachlorobutadiene	225	14.334	14.334	0.000	95	240365	5.00	5.34	
146 Naphthalene	128	14.432	14.426	0.006	96	861870	5.00	5.13	
147 1,2,3-Trichlorobenzene	180	14.572	14.572	0.000	96	404377	5.00	5.23	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
165 Isopropyl alcohol	45		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_00081	Amount Added: 5.00	Units: uL	
MSV_LL_#2_826_00093	Amount Added: 5.00	Units: uL	
MSV_LL_GAS826_00156	Amount Added: 5.00	Units: uL	
MSV_LLcentISS_00007	Amount Added: 5.00	Units: uL	Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X16.D

Injection Date: 19-Jun-2023 19:42:30

Instrument ID: 19930

Operator ID: KNK41612

Lims ID: IC std5

Worklist Smp#: 17

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

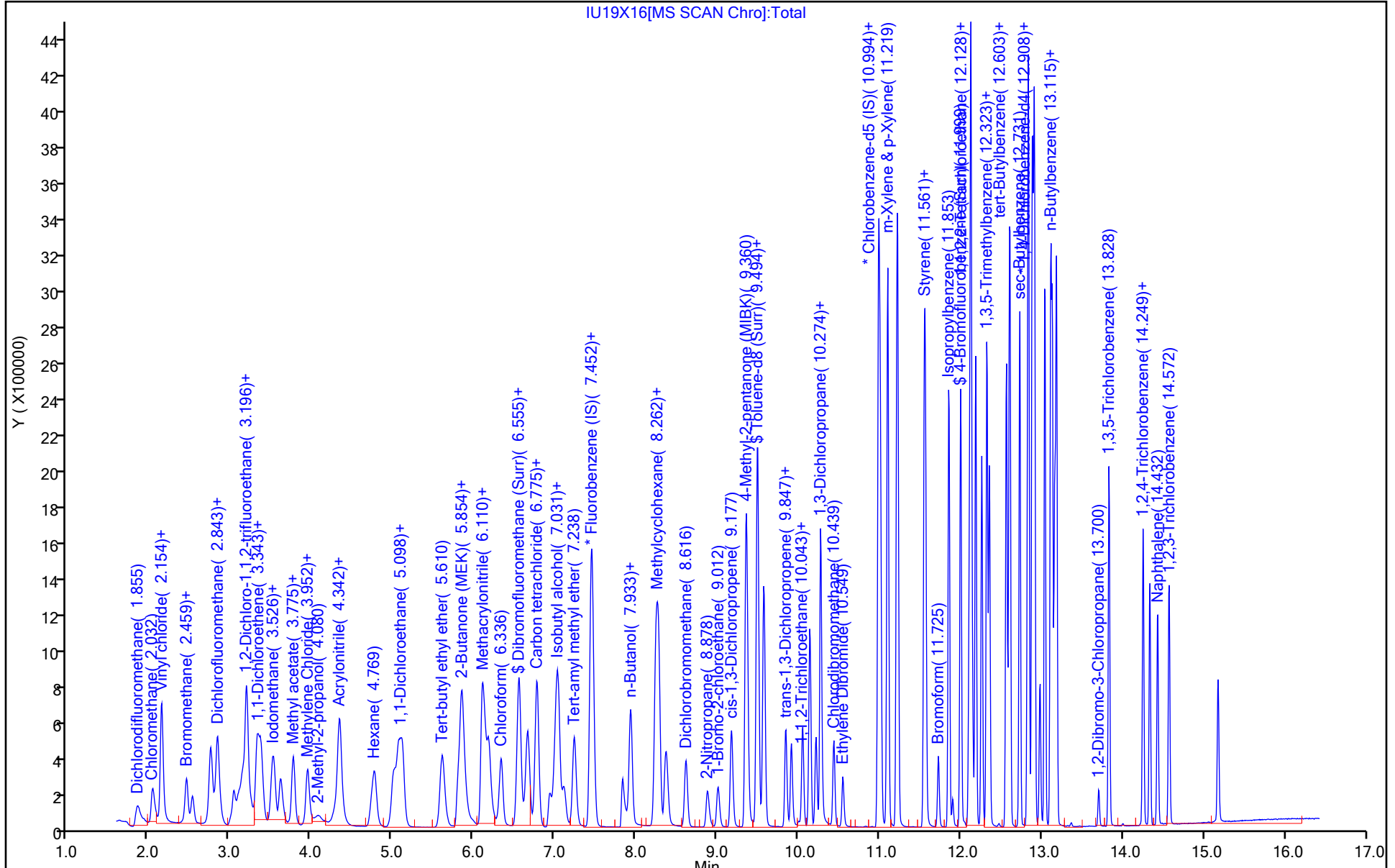
ALS Bottle#: 16

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

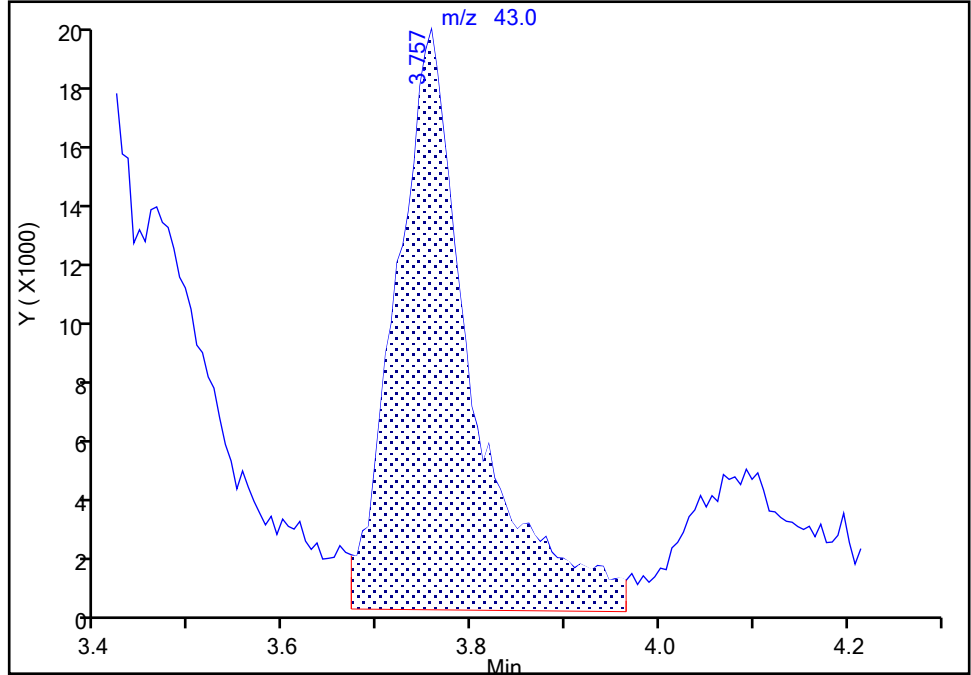
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Injection Date: 19-Jun-2023 19:42:30 Instrument ID: 19930  
Lims ID: IC std5  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 16 Worklist Smp#: 17  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

23 Methyl acetate, CAS: 79-20-9

Signal: 1

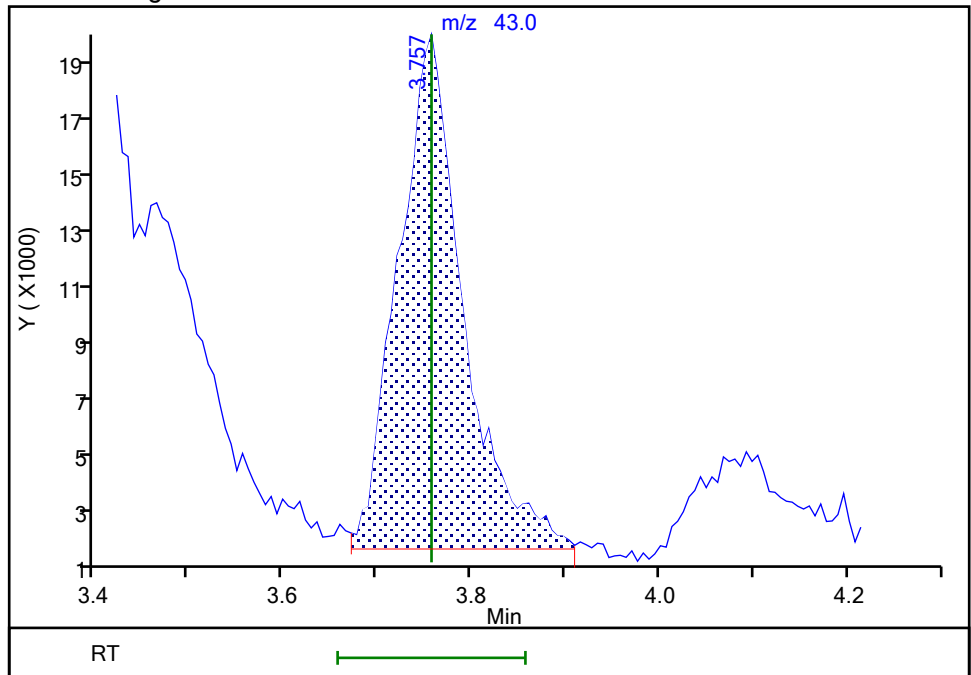
RT: 3.76  
Area: 107077  
Amount: 6.058921  
Amount Units: ug/l

Processing Integration Results



RT: 3.76  
Area: 83849  
Amount: 5.102323  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 08:06:09 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration



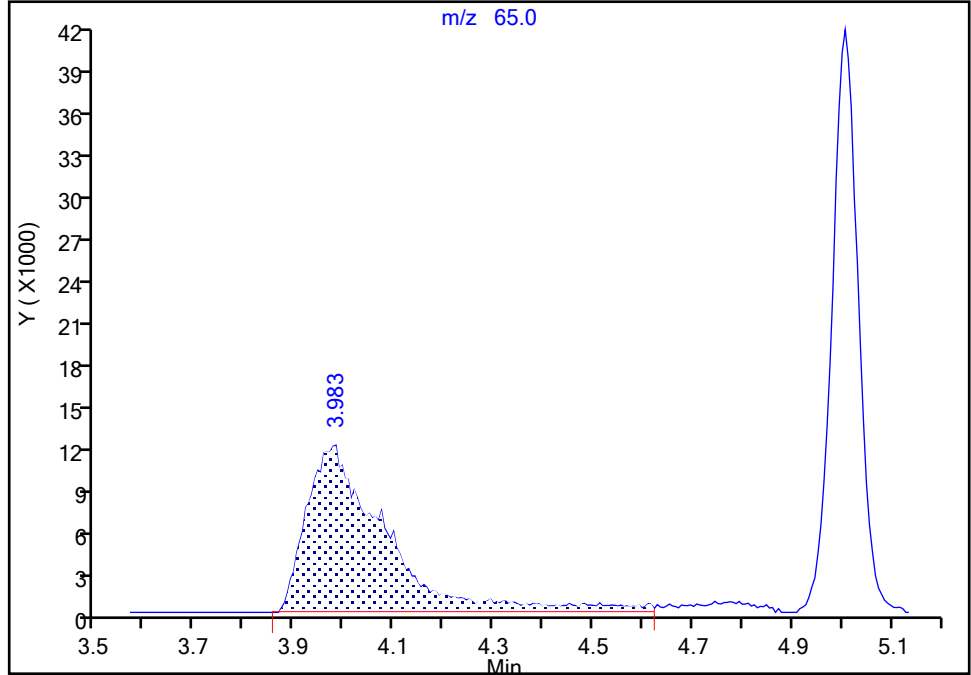
Eurofins Lancaster Laboratories Environment Testing, LLC

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Injection Date: 19-Jun-2023 19:42:30 Instrument ID: 19930  
Lims ID: IC std5  
Client ID:  
Operator ID: KNK41612 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

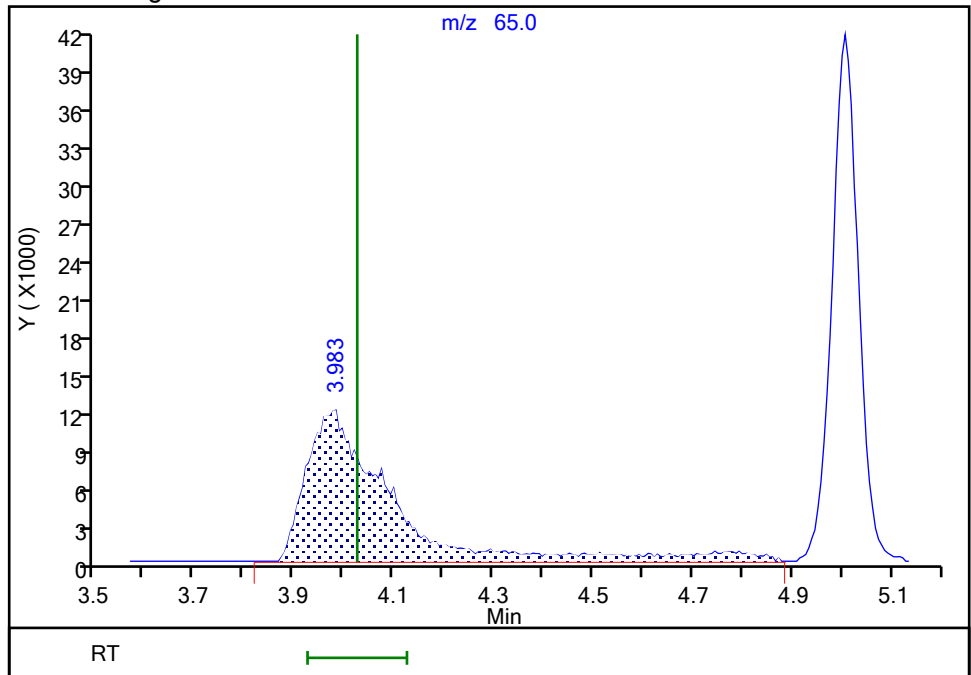
RT: 3.98  
Area: 131545  
Amount: 50.000000  
Amount Units: ug/l

Processing Integration Results



RT: 3.98  
Area: 139221  
Amount: 50.000000  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 08:06:17 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

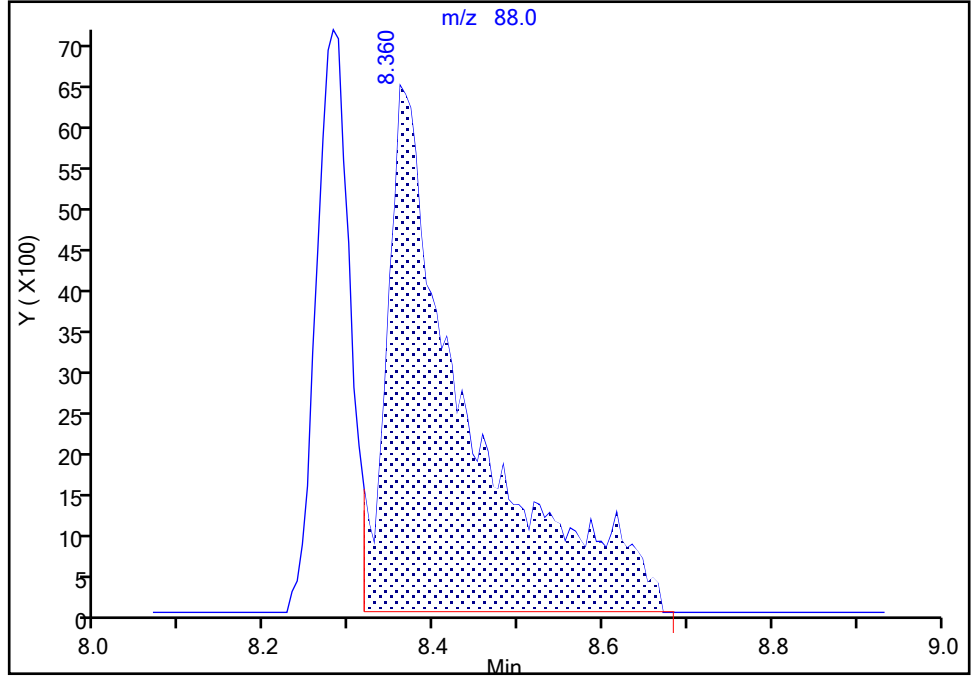
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Injection Date: 19-Jun-2023 19:42:30 Instrument ID: 19930  
Lims ID: IC std5  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 16 Worklist Smp#: 17  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

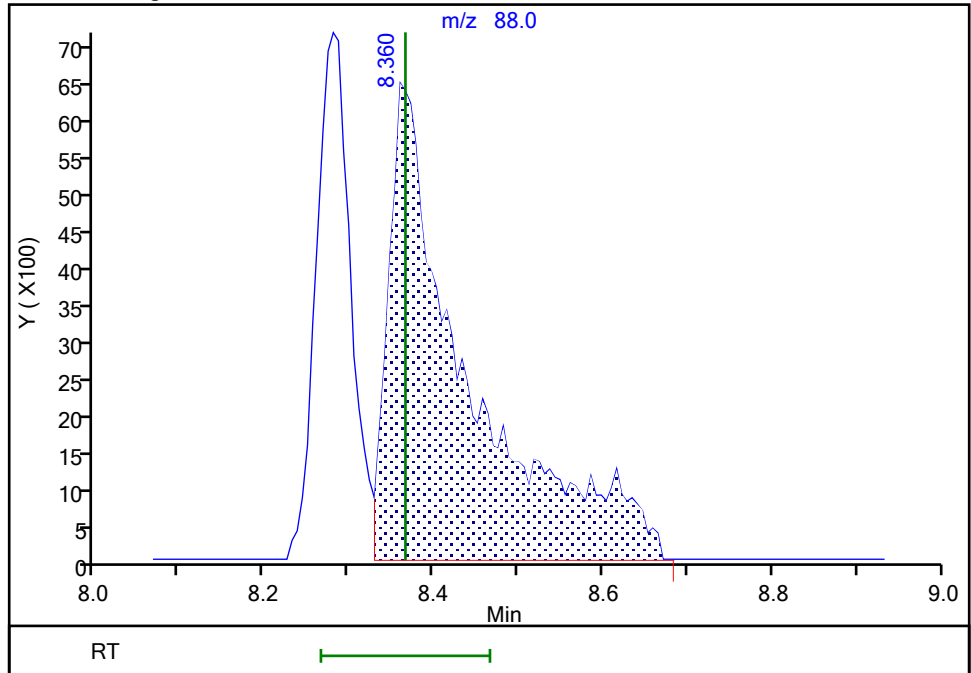
RT: 8.36  
Area: 42761  
Amount: 252.0352  
Amount Units: ug/l

Processing Integration Results



RT: 8.36  
Area: 41814  
Amount: 272.3748  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 08:06:38 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

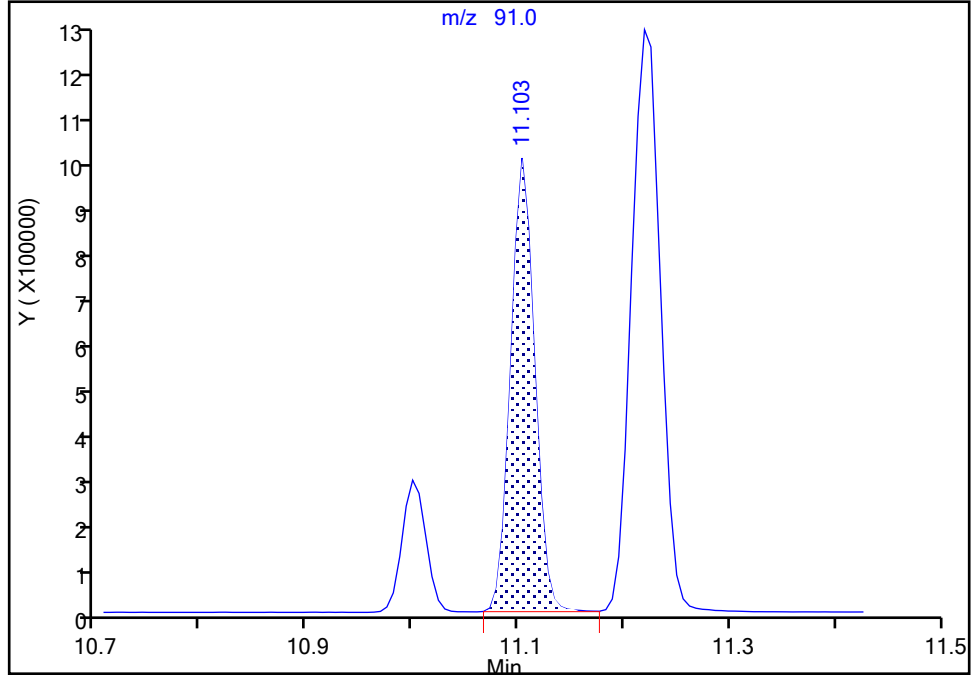
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Injection Date: 19-Jun-2023 19:42:30 Instrument ID: 19930  
Lims ID: IC std5  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 16 Worklist Smp#: 17  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

108 1-Chlorohexane, CAS: 544-10-5

Signal: 1

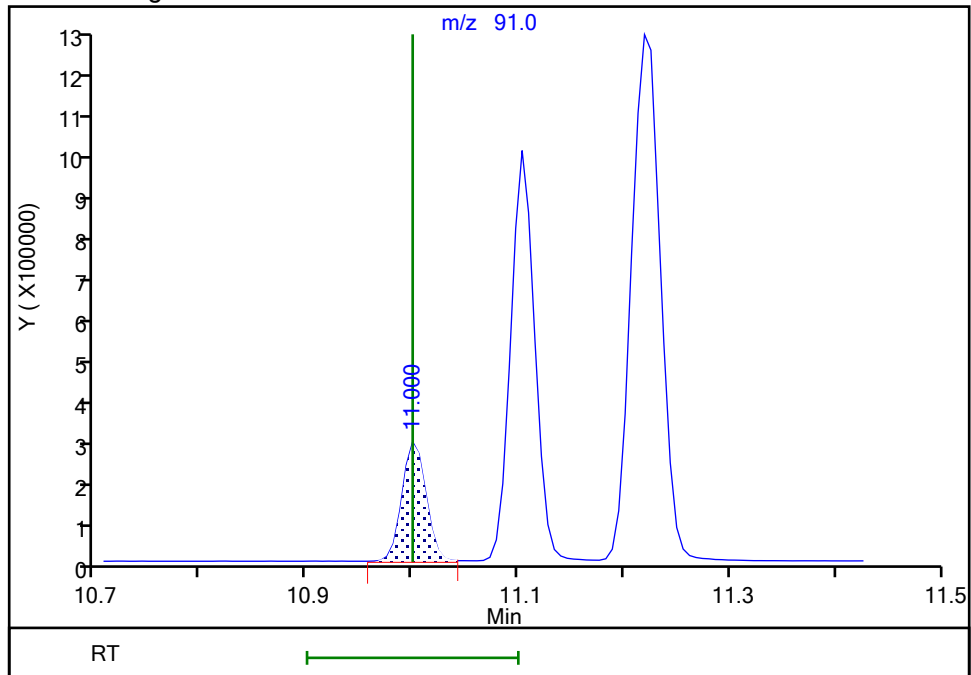
RT: 11.10  
Area: 1491281  
Amount: 8.413378  
Amount Units: ug/l

Processing Integration Results



RT: 11.00  
Area: 432239  
Amount: 4.949956  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 22-Jun-2023 07:48:04 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

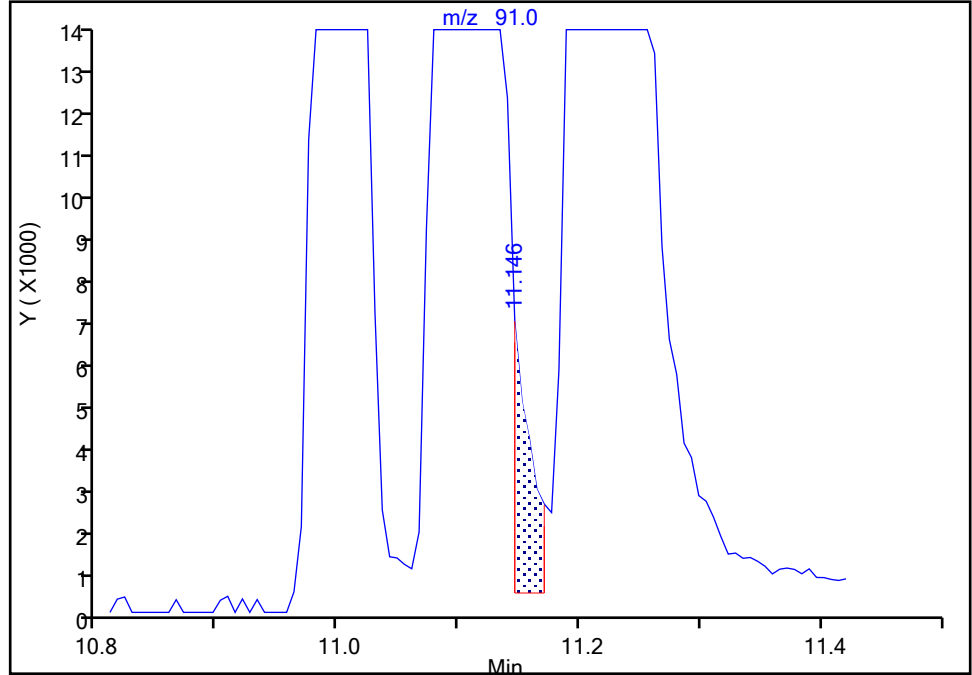
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Injection Date: 19-Jun-2023 19:42:30 Instrument ID: 19930  
Lims ID: IC std5  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 16 Worklist Smp#: 17  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

112 Ethylbenzene, CAS: 100-41-4

Signal: 1

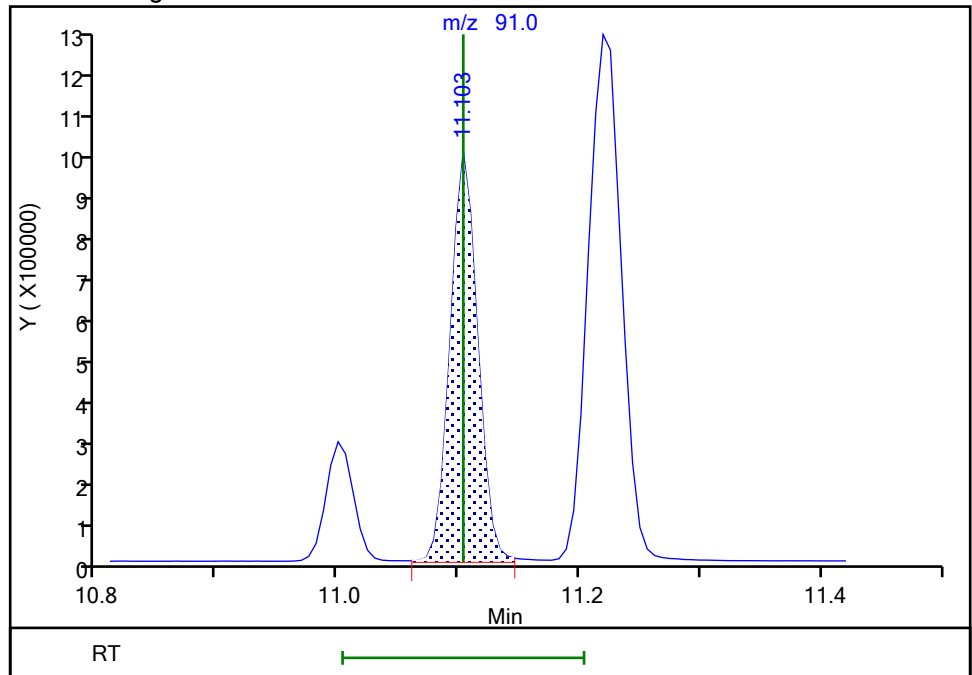
RT: 11.15  
Area: 6971  
Amount: 0.021435  
Amount Units: ug/l

Processing Integration Results



RT: 11.10  
Area: 1483797  
Amount: 5.074298  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 15:38:43 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

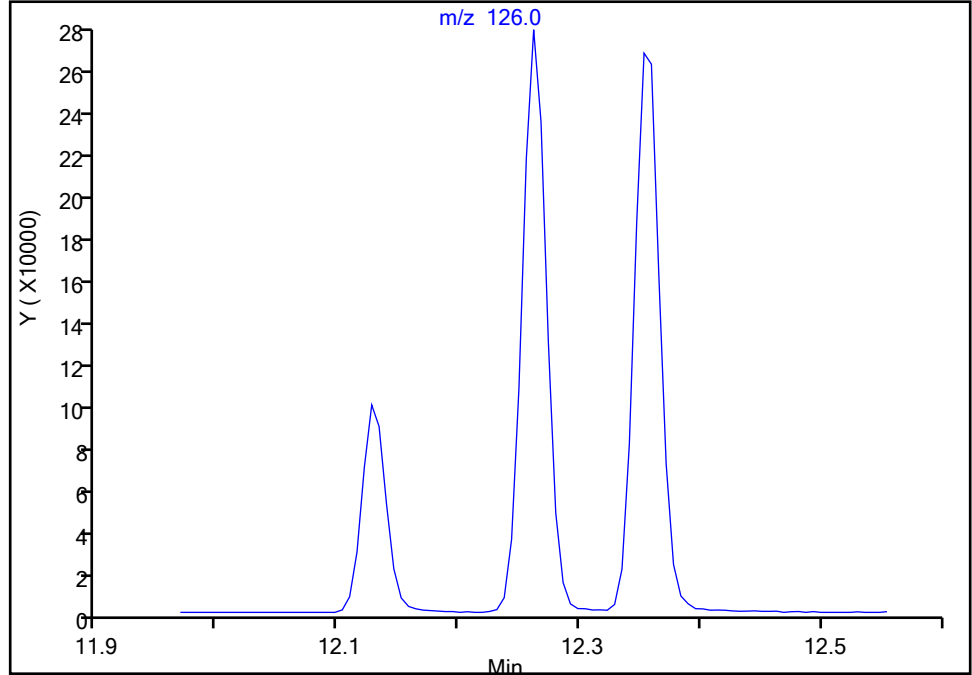
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Lims ID: IC std5  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 16 Worklist Smp#: 17  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

126 2-Chlorotoluene, CAS: 95-49-8

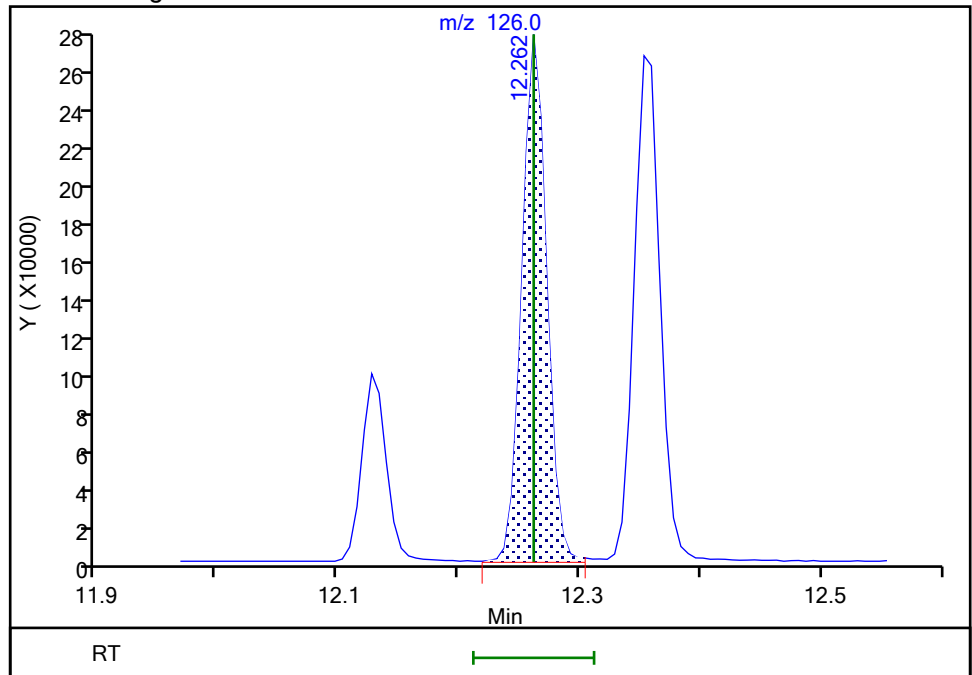
Signal: 1

Not Detected  
Expected RT: 12.26

Processing Integration Results



Manual Integration Results



RT: 12.26  
Area: 385471  
Amount: 5.091250  
Amount Units: ug/l

Reviewer: DVW2, 21-Jun-2023 15:38:46 -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\20230619-86929.b\IU19X17.D  
 Lims ID: ICIS std6 LG  
 Client ID:  
 Sample Type: ICIS Calib Level: 6  
 Inject. Date: 19-Jun-2023 20:03:30 ALS Bottle#: 17 Worklist Smp#: 18  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0086929-018  
 Misc. Info.: LG 10.0  
 Operator ID: KNK41612 Instrument ID: 19930  
 Sublist: chrom-8260 25ml HP31\*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 27-Jun-2023 12:30:34 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D

Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1687

First Level Reviewer: DVW2

Date: 21-Jun-2023 07:41:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.855	1.855	0.000	99	731790	10.0	10.1	
4 Chloromethane	50	2.050	2.050	0.000	99	711149	10.0	9.67	a
5 Vinyl chloride	62	2.160	2.160	0.000	98	695810	10.0	9.89	
6 Butadiene	39	2.160	2.160	0.000	91	661981	10.0	8.99	M
7 Bromomethane	94	2.465	2.465	0.000	90	529829	10.0	9.65	
8 Chloroethane	64	2.538	2.538	0.000	99	408968	10.0	9.72	
9 Dichlorofluoromethane	67	2.764	2.764	0.000	97	1102425	10.0	9.38	
10 Trichlorofluoromethane	101	2.824	2.824	0.000	96	931553	10.0	10.4	
11 Ethyl ether	59	3.050	3.050	0.000	90	379387	10.0	10.3	
13 1,2-Dichloro-1,1,2-trifluoroethane	67	3.142	3.142	0.000	94	618203	10.0	9.68	
14 Acrolein	56	3.209	3.209	0.000	98	2946849	500.0	520.4	
15 1,1-Dichloroethene	96	3.337	3.337	0.000	97	491920	10.0	10.1	a
16 Acetone	43	3.361	3.361	0.000	99	590923	100.0	94.5	a
17 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.385	3.385	0.000	91	552493	10.0	10.7	a
18 Iodomethane	142	3.526	3.526	0.000	99	1046658	10.0	10.3	a
19 Ethyl bromide	108	3.550	3.550	0.000	98	433776	10.0	10.2	a
20 Carbon disulfide	76	3.629	3.629	0.000	99	1353487	10.0	10.3	a
23 Methyl acetate	43	3.757	3.757	0.000	96	165612	10.0	10.7	Ma
24 3-Chloro-1-propene	41	3.782	3.782	0.000	91	754668	10.0	10.0	a
25 Methylene Chloride	84	3.958	3.958	0.000	89	518296	10.0	10.1	a
* 26 t-Butyl alcohol-d10 (IS)	65	3.977	3.977	0.000	95	130775	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.093	4.093	0.000	99	419183	200.0	168.5	Ma
28 Acrylonitrile	53	4.282	4.282	0.000	97	215747	25.0	28.4	a
29 Methyl tert-butyl ether	73	4.342	4.342	0.000	94	1328588	10.0	9.99	a
30 trans-1,2-Dichloroethene	96	4.355	4.355	0.000	99	549965	10.0	10.2	a
31 Hexane	57	4.781	4.781	0.000	91	747981	10.0	10.6	a
32 1,1-Dichloroethane	63	5.013	5.013	0.000	96	957603	10.0	10.4	a
35 Isopropyl ether	45	5.074	5.074	0.000	93	1538859	10.0	10.1	a
36 2-Chloro-1,3-butadiene	53	5.123	5.123	0.000	90	806204	10.0	10.4	a
37 Tert-butyl ethyl ether	59	5.623	5.623	0.000	96	1475081	10.0	10.2	a

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	5.812	5.812	0.000	99	1212881	100.0	100.6	a
39 cis-1,2-Dichloroethene	96	5.854	5.854	0.000	81	607013	10.0	10.1	a
40 2,2-Dichloropropane	77	5.867	5.867	0.000	86	853357	10.0	10.2	a
43 Propionitrile	54	5.891	5.891	0.000	98	686213	200.0	215.3	a
45 Methacrylonitrile	67	6.110	6.110	0.000	90	1304884	100.0	103.7	a
46 Chlorobromomethane	128	6.190	6.190	0.000	86	278362	10.0	10.2	a
47 Tetrahydrofuran	71	6.196	6.196	0.000	74	200641	50.0	50.6	a
48 Chloroform	83	6.342	6.342	0.000	94	973119	10.0	10.2	a
\$ 49 Dibromofluoromethane (Surr)	113	6.555	6.555	0.000	94	464653	10.0	10.0	a
50 1,1,1-Trichloroethane	97	6.568	6.568	0.000	98	914467	10.0	10.3	a
51 Cyclohexane	56	6.671	6.671	0.000	88	898646	10.0	10.6	a
54 Carbon tetrachloride	117	6.781	6.781	0.000	97	847817	10.0	10.7	a
53 1,1-Dichloropropene	75	6.781	6.781	0.000	95	738645	10.0	10.4	a
55 Isobutyl alcohol	41	6.940	6.940	0.000	94	408183	500.0	461.8	a
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.013	7.013	0.000	73	91929	10.0	9.99	a
57 Benzene	78	7.043	7.043	0.000	96	2192041	10.0	10.3	a
58 1,2-Dichloroethane	62	7.116	7.116	0.000	97	589464	10.0	10.2	a
60 Tert-amyl methyl ether	73	7.244	7.244	0.000	98	1374850	10.0	10.3	a
* 61 Fluorobenzene (IS)	96	7.452	7.452	0.000	99	1807671	10.0	10.0	a
62 n-Heptane	43	7.470	7.470	0.000	90	722856	10.0	10.6	a
63 n-Butanol	56	7.836	7.836	0.000	87	662655	875.0	976.0	a
64 Trichloroethene	95	7.933	7.933	0.000	96	615027	10.0	10.4	a
65 Methylcyclohexane	83	8.244	8.244	0.000	91	1036558	10.0	10.8	a
66 1,2-Dichloropropane	63	8.269	8.269	0.000	96	544394	10.0	10.3	a
67 Methyl methacrylate	69	8.354	8.354	0.000	93	276225	10.0	11.1	a
68 1,4-Dioxane	88	8.366	8.366	0.000	68	79624	500.0	552.2	M
69 Dibromomethane	93	8.378	8.378	0.000	91	271761	10.0	10.3	a
71 Dichlorobromomethane	83	8.616	8.616	0.000	99	705073	10.0	10.3	a
72 2-Nitropropane	41	8.884	8.884	0.000	97	394504	50.0	48.7	
75 1-Bromo-2-chloroethane	63	9.012	9.012	0.000	98	557990	10.0	10.4	a
76 cis-1,3-Dichloropropene	75	9.177	9.177	0.000	97	875051	10.0	10.6	
77 4-Methyl-2-pentanone (MIBK)	43	9.360	9.360	0.000	96	3378679	100.0	104.4	
\$ 78 Toluene-d8 (Surr)	98	9.500	9.500	0.000	93	1851132	10.0	10.0	a
79 Toluene	92	9.579	9.579	0.000	99	1497015	10.0	10.3	
97 trans-1,3-Dichloropropene	75	9.848	9.848	0.000	92	742761	10.0	10.8	
99 Ethyl methacrylate	69	9.915	9.915	0.000	88	594538	10.0	10.4	
100 1,1,2-Trichloroethane	97	10.055	10.055	0.000	90	412606	10.0	10.0	
101 Tetrachloroethene	166	10.146	10.146	0.000	98	788455	10.0	10.4	
102 1,3-Dichloropropane	76	10.219	10.219	0.000	89	668224	10.0	10.2	
103 2-Hexanone	43	10.274	10.274	0.000	96	2392308	100.0	104.5	
105 Chlorodibromomethane	129	10.439	10.439	0.000	89	568456	10.0	10.6	
106 Ethylene Dibromide	107	10.549	10.549	0.000	98	404683	10.0	10.4	
* 107 Chlorobenzene-d5 (IS)	117	10.988	10.988	0.000	86	1439976	10.0	10.0	
108 1-Chlorohexane	91	11.000	11.000	0.000	95	850962	10.0	10.0	a
109 Chlorobenzene	112	11.018	11.018	0.000	97	1747675	10.0	10.2	
111 1,1,1,2-Tetrachloroethane	131	11.097	11.097	0.000	97	629258	10.0	10.3	
112 Ethylbenzene	91	11.103	11.103	0.000	98	2922252	10.0	10.3	a
113 m-Xylene & p-Xylene	106	11.219	11.219	0.000	93	2378256	20.0	20.7	
114 o-Xylene	106	11.554	11.554	0.000	95	1173518	10.0	10.3	
115 Styrene	104	11.567	11.567	0.000	95	1913392	10.0	10.5	
116 Bromoform	173	11.725	11.725	0.000	98	380006	10.0	10.9	
117 Isopropylbenzene	105	11.859	11.859	0.000	95	3058543	10.0	10.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 120 4-Bromofluorobenzene (Surr)	95	12.000	12.000	0.000	96	698444	10.0	10.0	a
121 1,1,2,2-Tetrachloroethane	83	12.103	12.103	0.000	93	534348	10.0	10.1	
122 Bromobenzene	156	12.115	12.115	0.000	95	773433	10.0	10.2	
123 trans-1,4-Dichloro-2-butene	53	12.128	12.128	0.000	91	1271163	100.0	104.4	
124 1,2,3-Trichloropropane	110	12.146	12.146	0.000	81	148764	10.0	10.1	
125 N-Propylbenzene	91	12.189	12.189	0.000	98	3497528	10.0	10.4	
126 2-Chlorotoluene	126	12.262	12.262	0.000	98	760985	10.0	10.3	a
127 1,3,5-Trimethylbenzene	105	12.323	12.323	0.000	95	2654457	10.0	10.3	
128 4-Chlorotoluene	126	12.353	12.353	0.000	95	763897	10.0	10.1	a
129 tert-Butylbenzene	134	12.566	12.566	0.000	92	640020	10.0	10.4	
130 Pentachloroethane	167	12.597	12.597	0.000	91	511060	10.0	10.7	
131 1,2,4-Trimethylbenzene	105	12.609	12.609	0.000	96	2718845	10.0	10.3	a
132 sec-Butylbenzene	105	12.731	12.731	0.000	94	3403512	10.0	10.4	
133 1,3-Dichlorobenzene	146	12.829	12.829	0.000	99	1543368	10.0	10.4	
134 4-Isopropyltoluene	119	12.841	12.841	0.000	97	3071854	10.0	10.6	
* 135 1,4-Dichlorobenzene-d4	152	12.884	12.884	0.000	93	884528	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.902	12.902	0.000	95	1479609	10.0	10.1	
137 1,2,3-Trimethylbenzene	120	12.914	12.914	0.000	98	1208040	10.0	10.1	
138 Benzyl chloride	126	12.981	12.981	0.000	98	244410	10.0	10.8	a
139 n-Butylbenzene	92	13.133	13.133	0.000	97	1402209	10.0	10.8	
140 1,2-Dichlorobenzene	146	13.158	13.158	0.000	99	1428274	10.0	10.2	
142 1,2-Dibromo-3-Chloropropane	155	13.700	13.700	0.000	91	91829	10.0	10.7	
143 1,3,5-Trichlorobenzene	180	13.828	13.828	0.000	98	1180993	10.0	10.6	
144 1,2,4-Trichlorobenzene	180	14.249	14.249	0.000	94	976458	10.0	10.9	
145 Hexachlorobutadiene	225	14.334	14.334	0.000	95	466073	10.0	10.7	
146 Naphthalene	128	14.426	14.426	0.000	96	1695646	10.0	10.4	a
147 1,2,3-Trichlorobenzene	180	14.572	14.572	0.000	96	801092	10.0	10.7	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
165 Isopropyl alcohol	45		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_00081	Amount Added: 10.00	Units: uL	
MSV_LL_#2_826_00093	Amount Added: 10.00	Units: uL	
MSV_LL_GAS826_00156	Amount Added: 10.00	Units: uL	
MSV_LLcentISS_00007	Amount Added: 5.00	Units: uL	Run Reagent



Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X17.D

Injection Date: 19-Jun-2023 20:03:30

Instrument ID: 19930

Operator ID: KNK41612

Lims ID: ICIS std6 LG

Worklist Smp#: 18

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

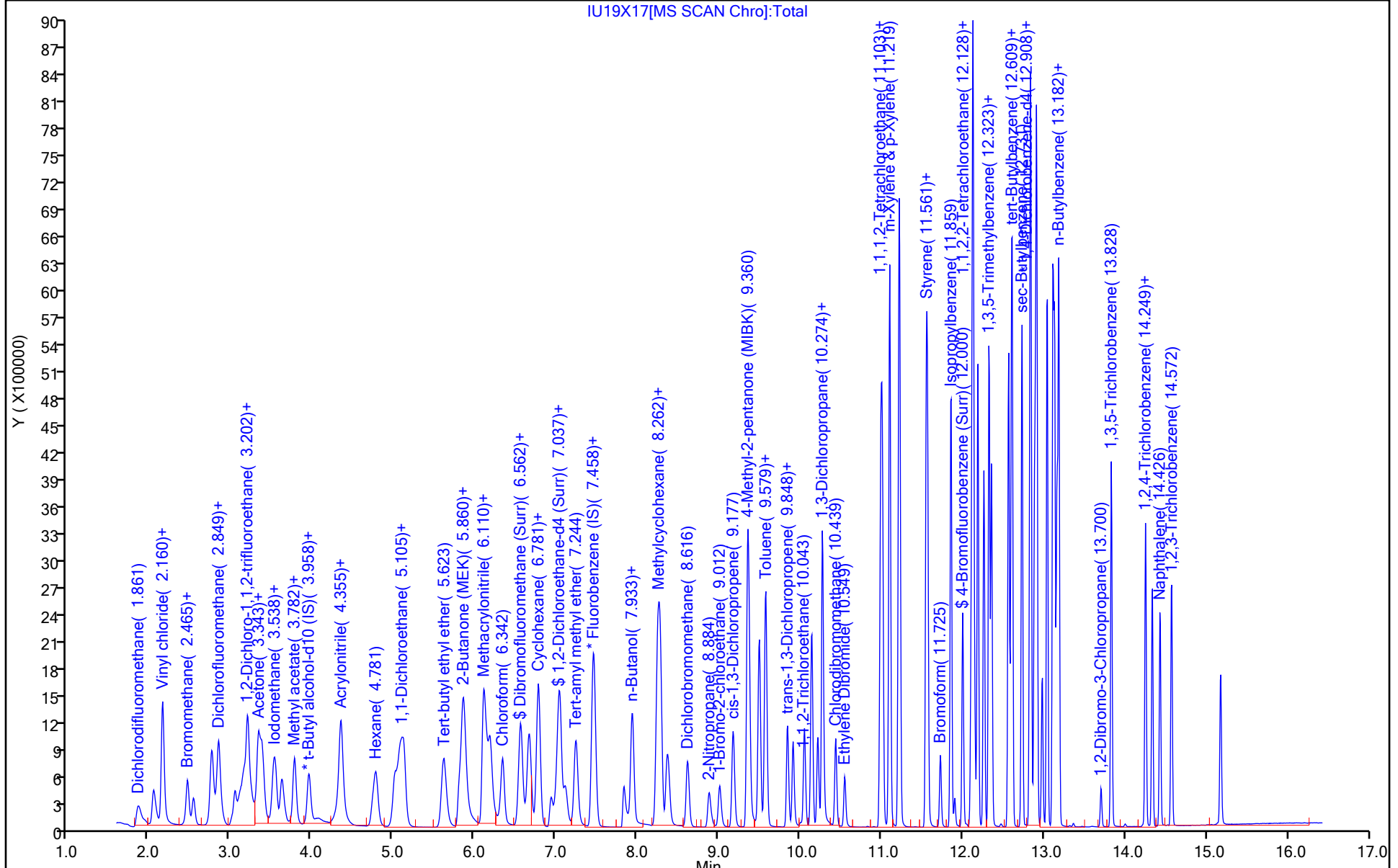
ALS Bottle#: 17

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



IU19X17[MS SCAN Chroj:Total

Eurofins Lancaster Laboratories Environment Testing, LLC

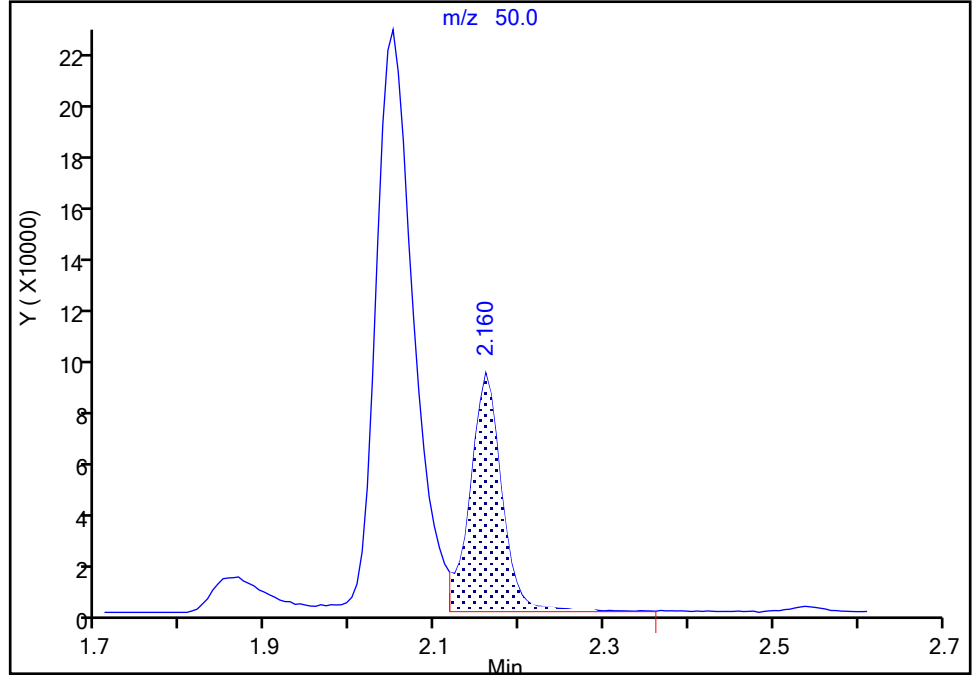
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

4 Chloromethane, CAS: 74-87-3

Signal: 1

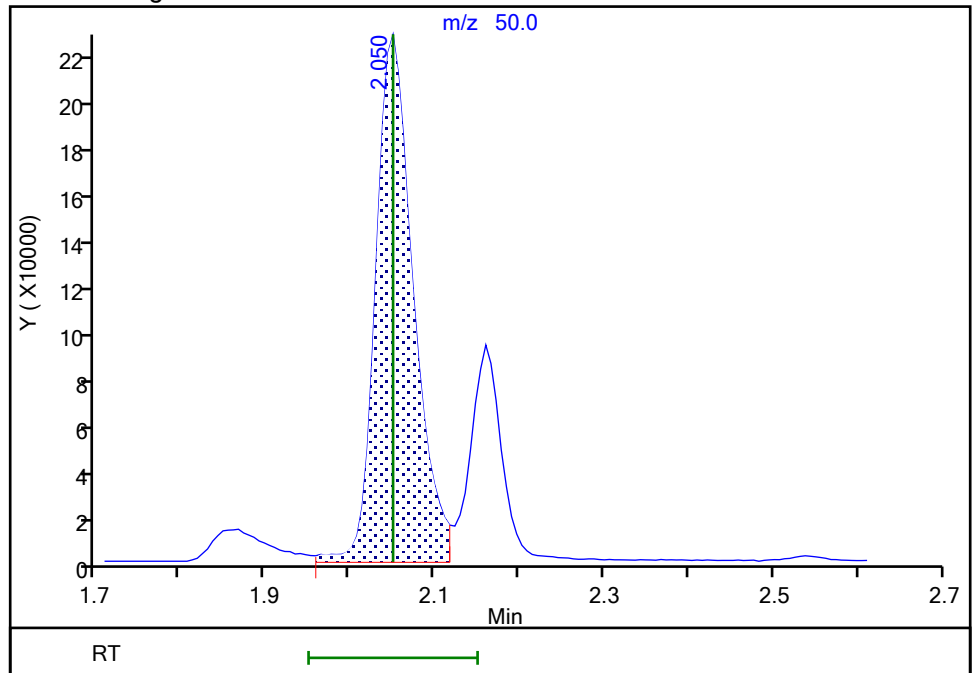
RT: 2.16  
Area: 250430  
Amount: 0.112854  
Amount Units: ug/l

Processing Integration Results



RT: 2.05  
Area: 711149  
Amount: 9.671244  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:36:29 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

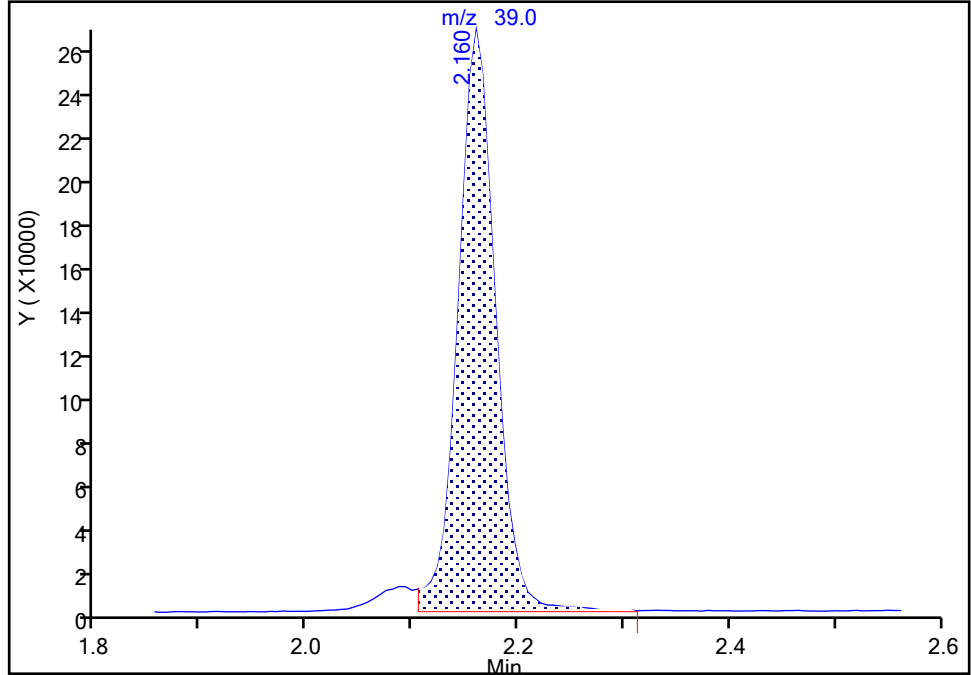
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

6 Butadiene, CAS: 106-99-0

Signal: 1

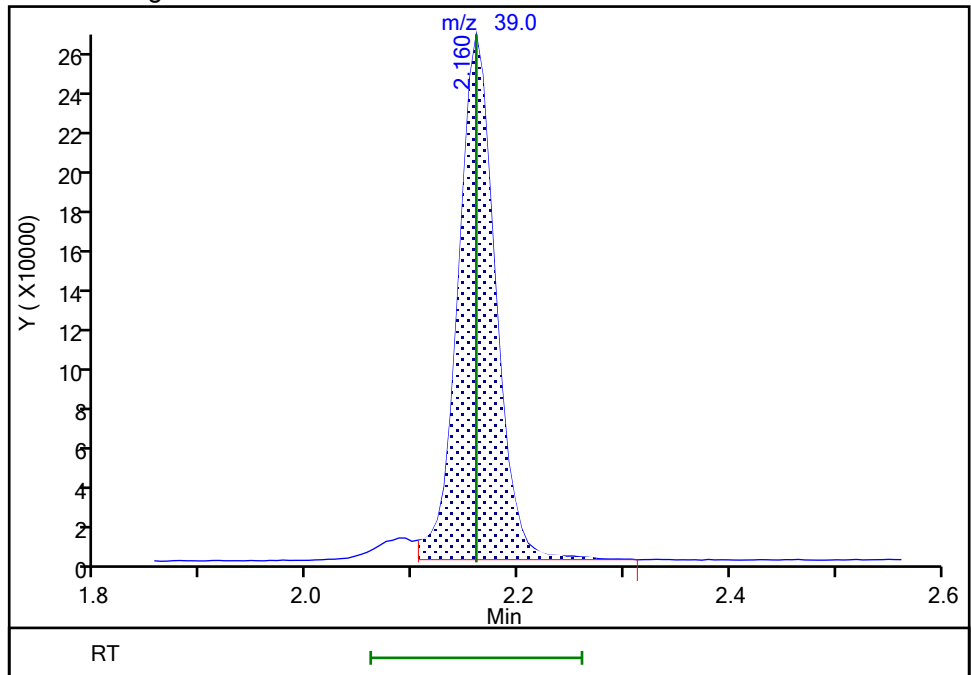
RT: 2.16  
Area: 663703  
Amount: 9.006732  
Amount Units: ug/l

Processing Integration Results



RT: 2.16  
Area: 661981  
Amount: 8.992016  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 08:07:48 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

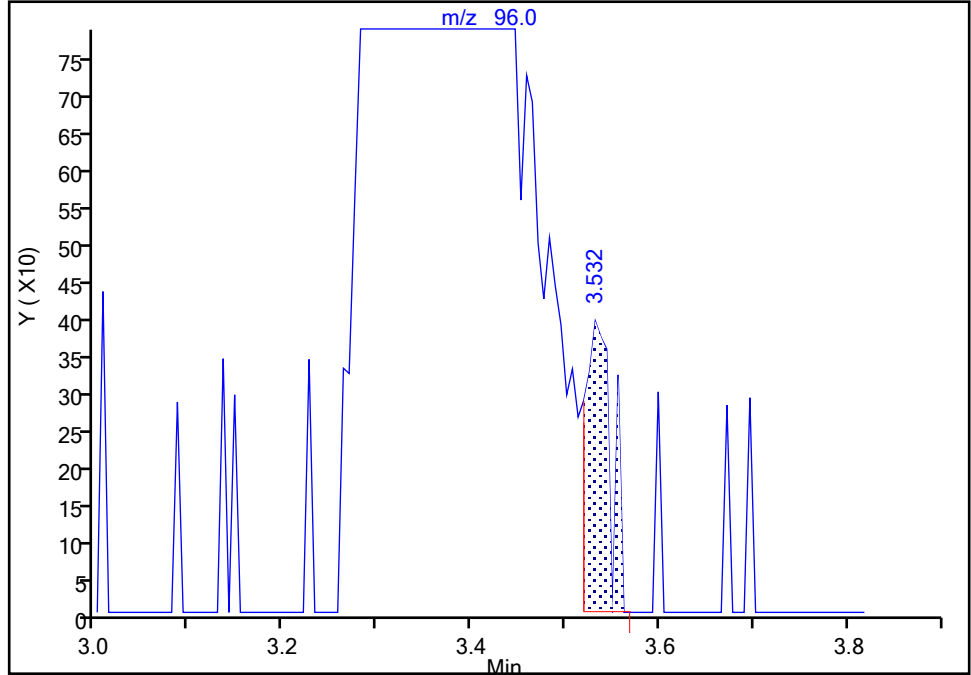
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Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

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

Signal: 1

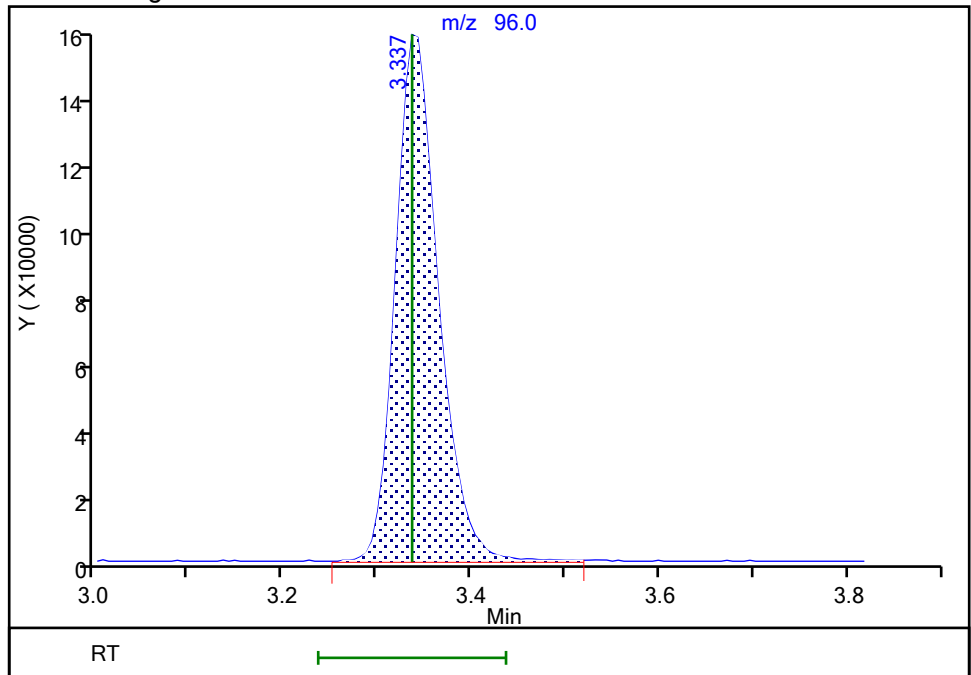
RT: 3.53  
Area: 754  
Amount: 10.000000  
Amount Units: ug/l

Processing Integration Results



RT: 3.34  
Area: 491920  
Amount: 10.146958  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:36:52 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

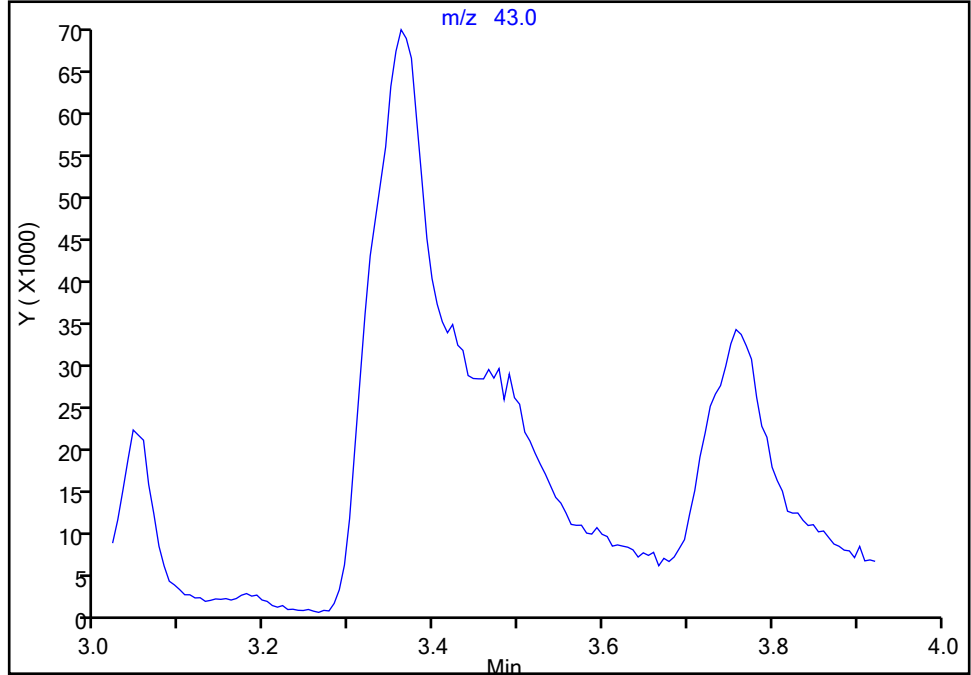
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

16 Acetone, CAS: 67-64-1

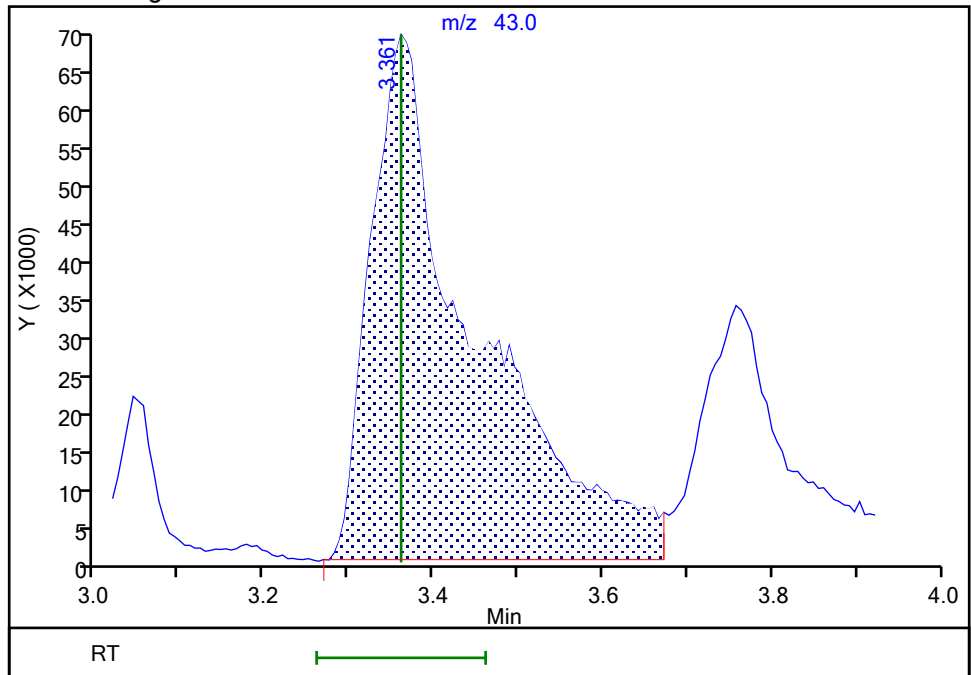
Signal: 1

Not Detected  
Expected RT: 3.36

Processing Integration Results



Manual Integration Results



RT: 3.36  
Area: 590923  
Amount: 94.472856  
Amount Units: ug/l

Reviewer: DVW2, 21-Jun-2023 07:36:43 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

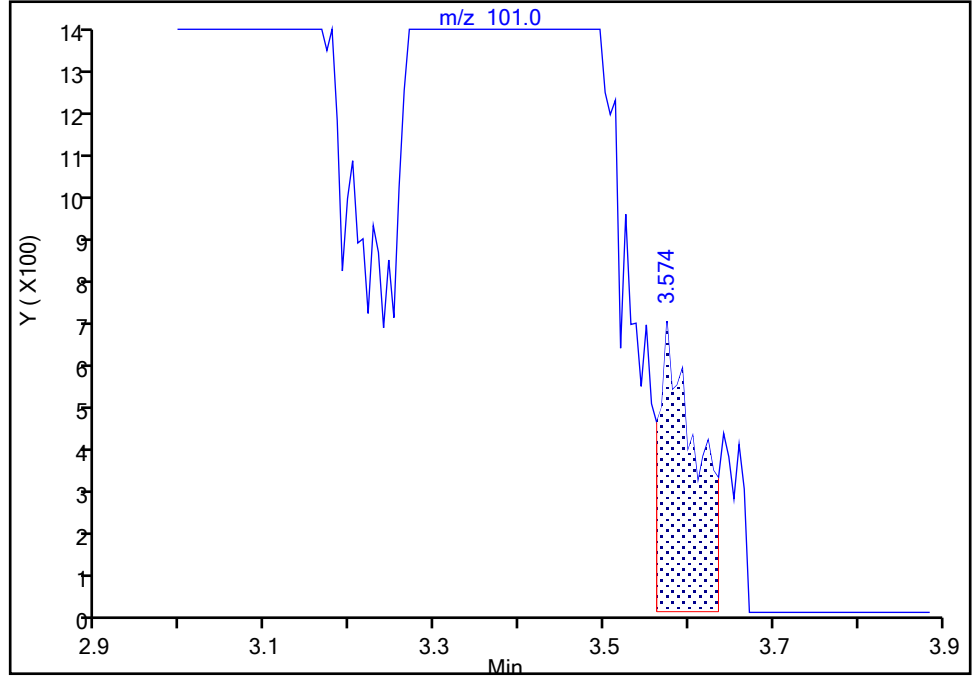
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

17 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

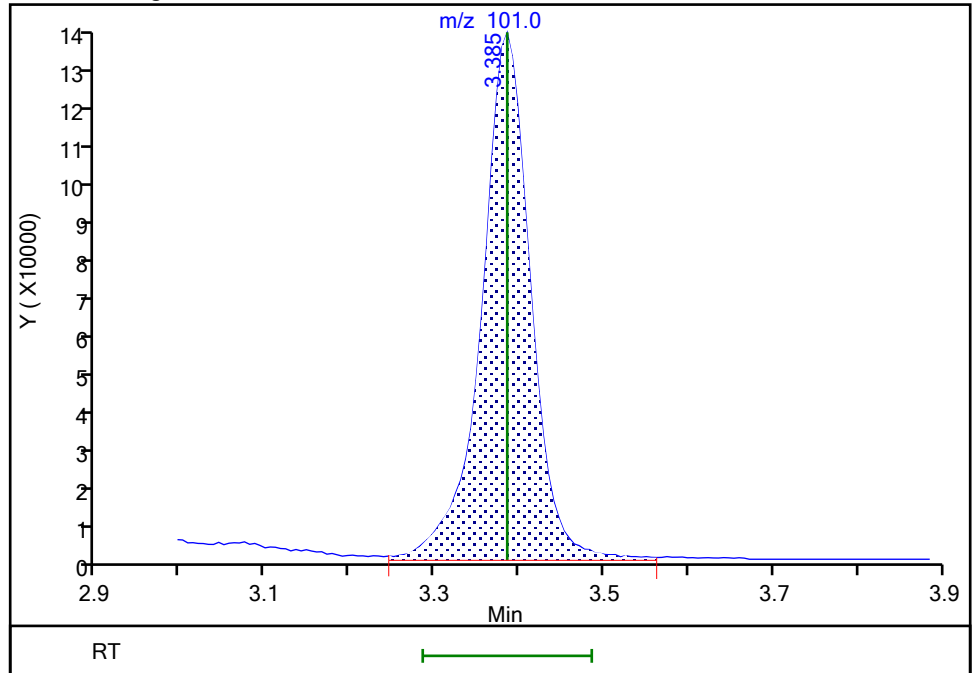
RT: 3.57  
Area: 2114  
Amount: 10.000000  
Amount Units: ug/l

Processing Integration Results



RT: 3.39  
Area: 552493  
Amount: 10.737007  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:36:55 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

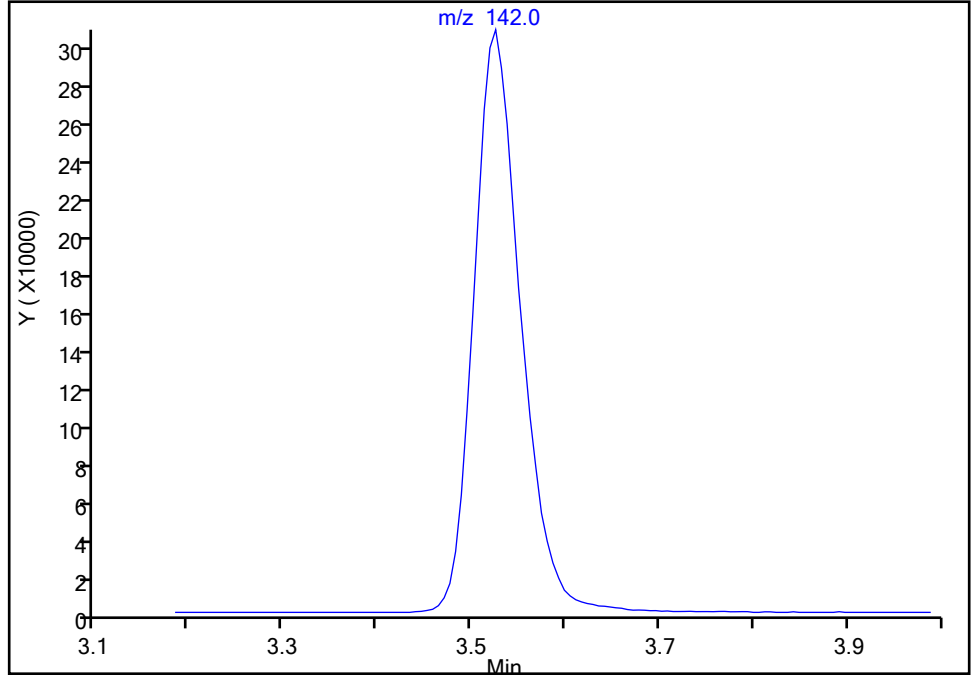
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Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

18 Iodomethane, CAS: 74-88-4

Signal: 1

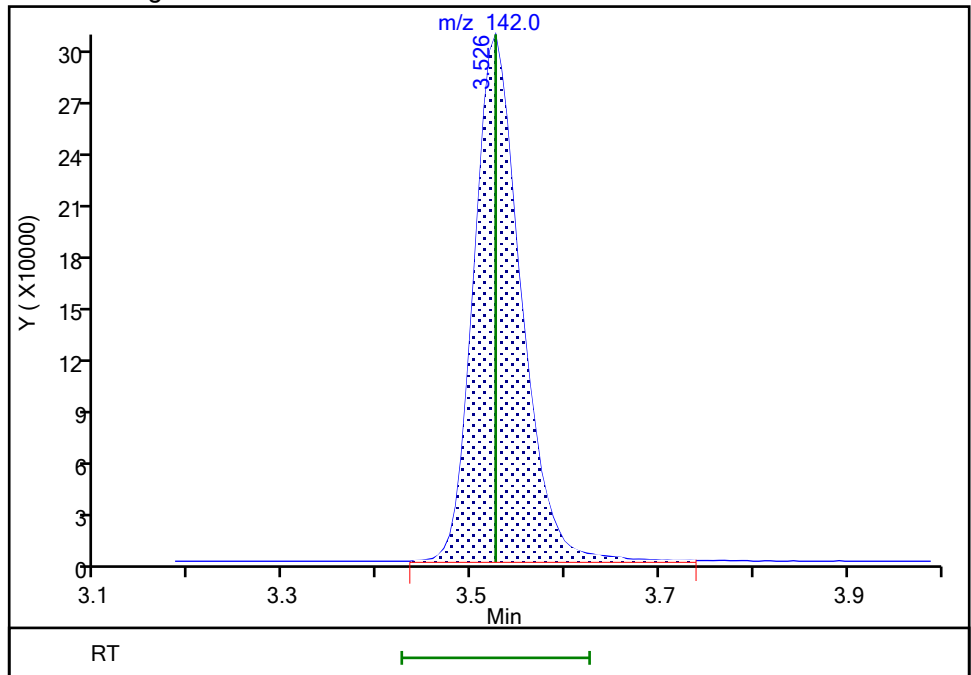
Not Detected  
Expected RT: 3.53

Processing Integration Results



Manual Integration Results

RT: 3.53  
Area: 1046658  
Amount: 10.266934  
Amount Units: ug/l



Reviewer: DVW2, 21-Jun-2023 07:37:00 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

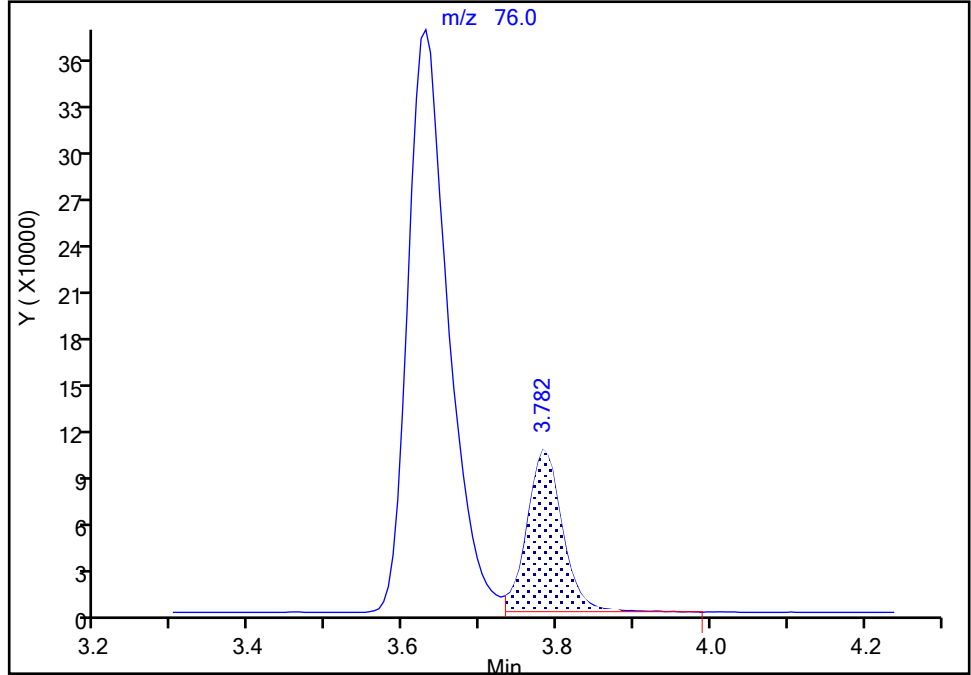
Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X17.D  
Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

20 Carbon disulfide, CAS: 75-15-0

Signal: 1

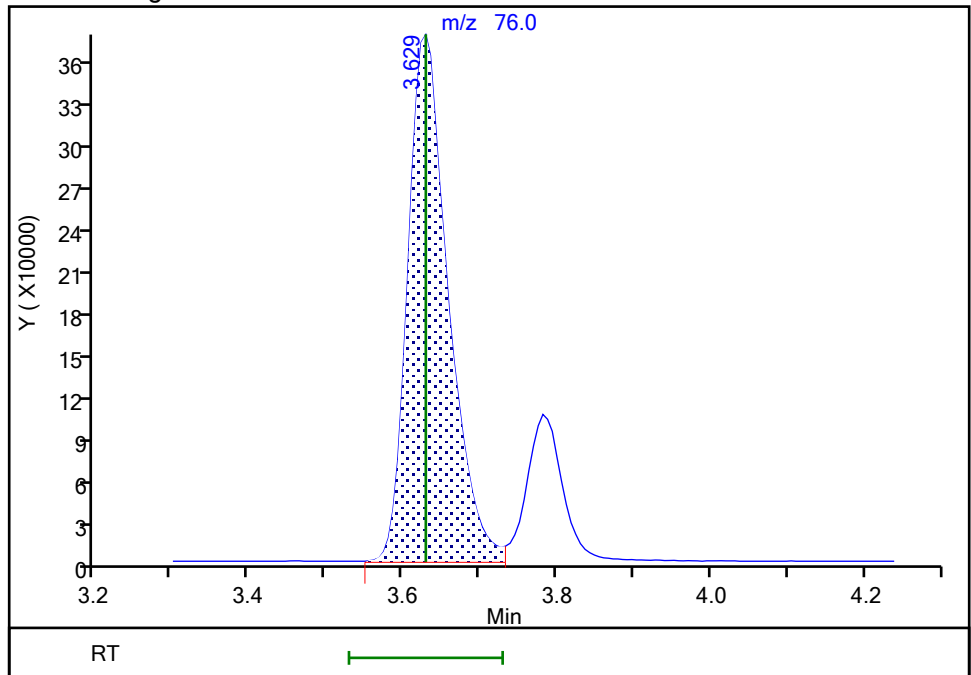
RT: 3.78  
Area: 335979  
Amount: 0.167343  
Amount Units: ug/l

Processing Integration Results



RT: 3.63  
Area: 1353487  
Amount: 10.295573  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:37:07 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration



Eurofins Lancaster Laboratories Environment Testing, LLC

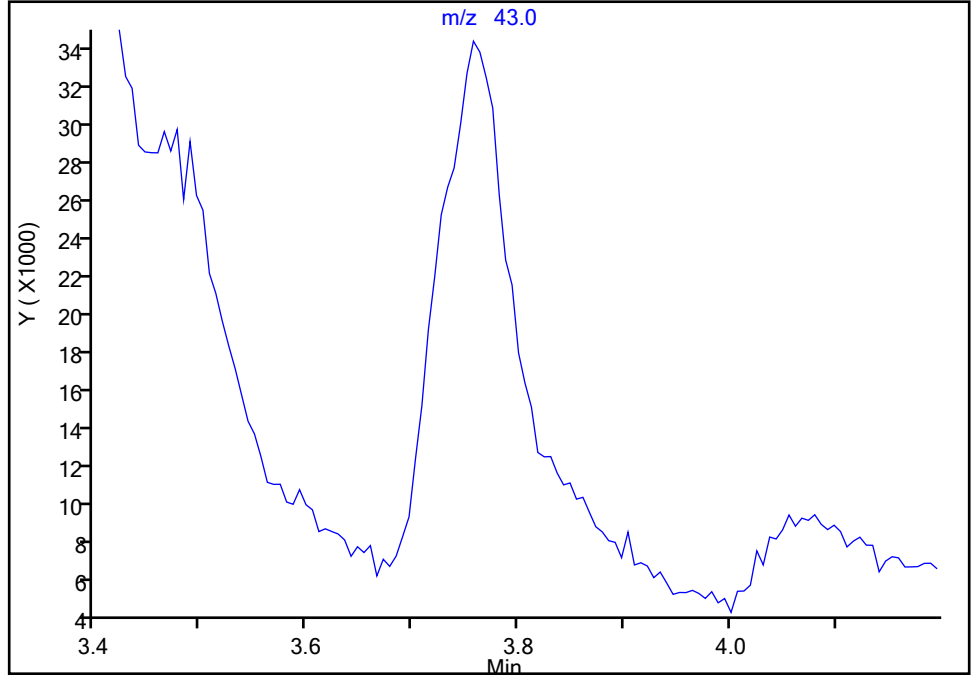
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

23 Methyl acetate, CAS: 79-20-9

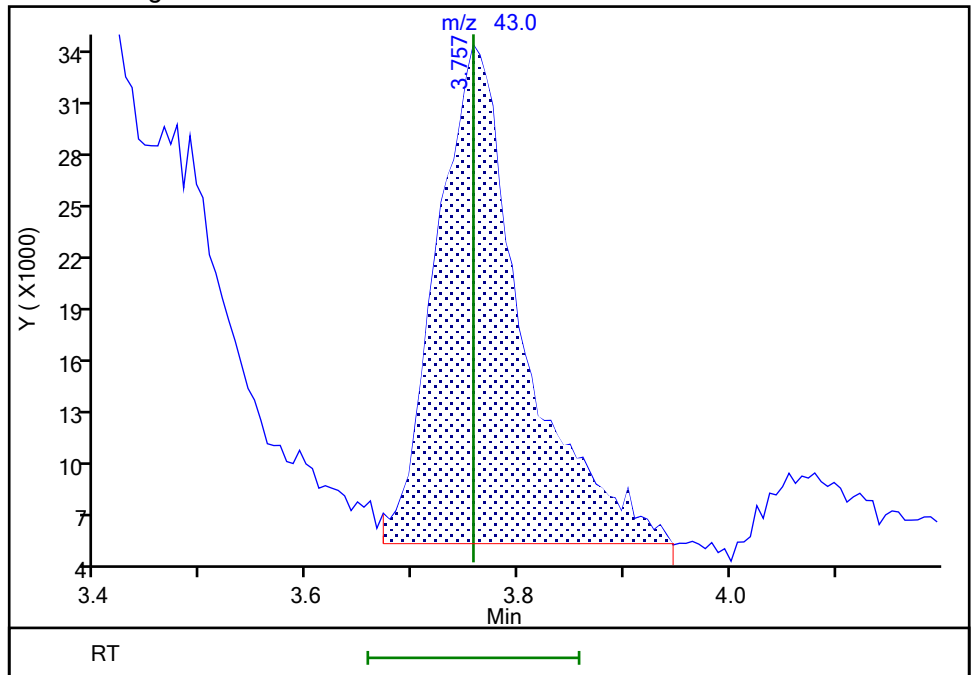
Signal: 1

Not Detected  
Expected RT: 3.76

Processing Integration Results



Manual Integration Results



RT: 3.76  
Area: 165612  
Amount: 10.728572  
Amount Units: ug/l

Reviewer: DVW2, 21-Jun-2023 07:37:29 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

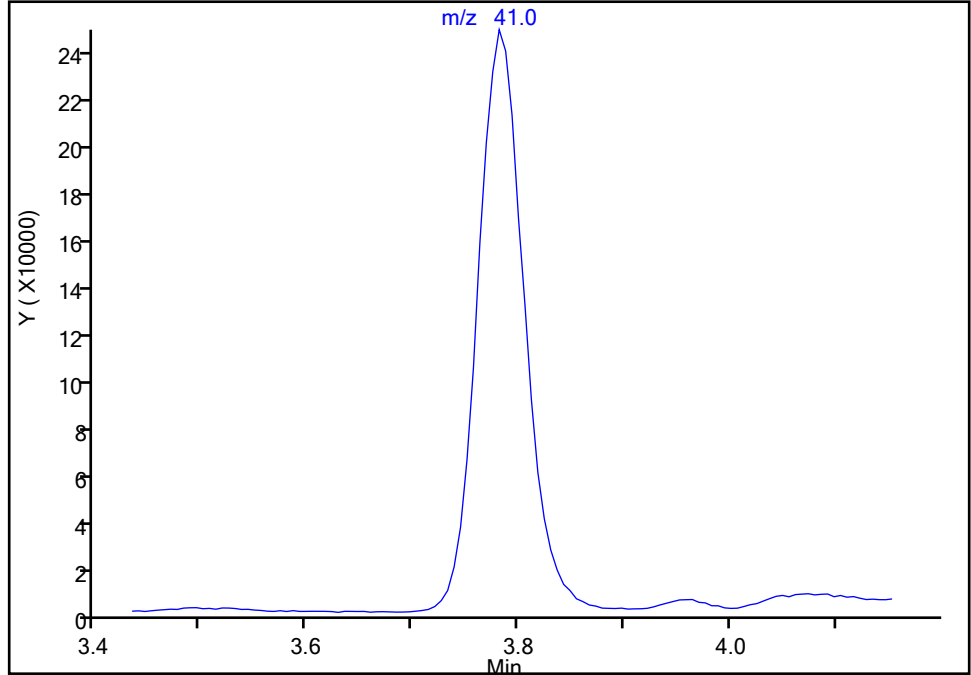
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

24 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

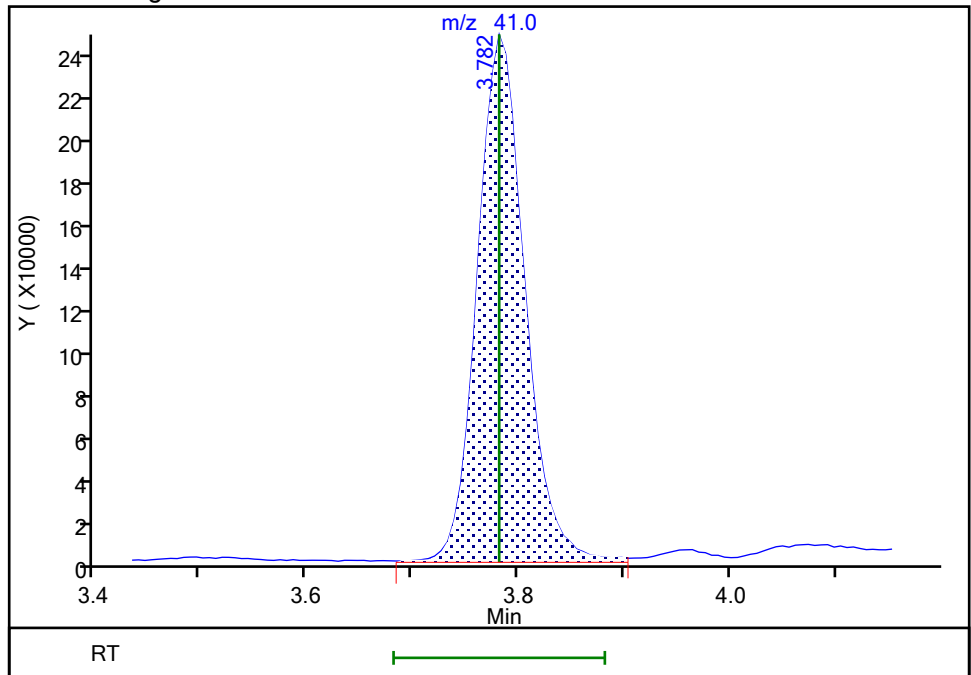
Not Detected  
Expected RT: 3.78

Processing Integration Results



Manual Integration Results

RT: 3.78  
Area: 754668  
Amount: 10.015905  
Amount Units: ug/l



Reviewer: DVW2, 21-Jun-2023 07:37:36 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

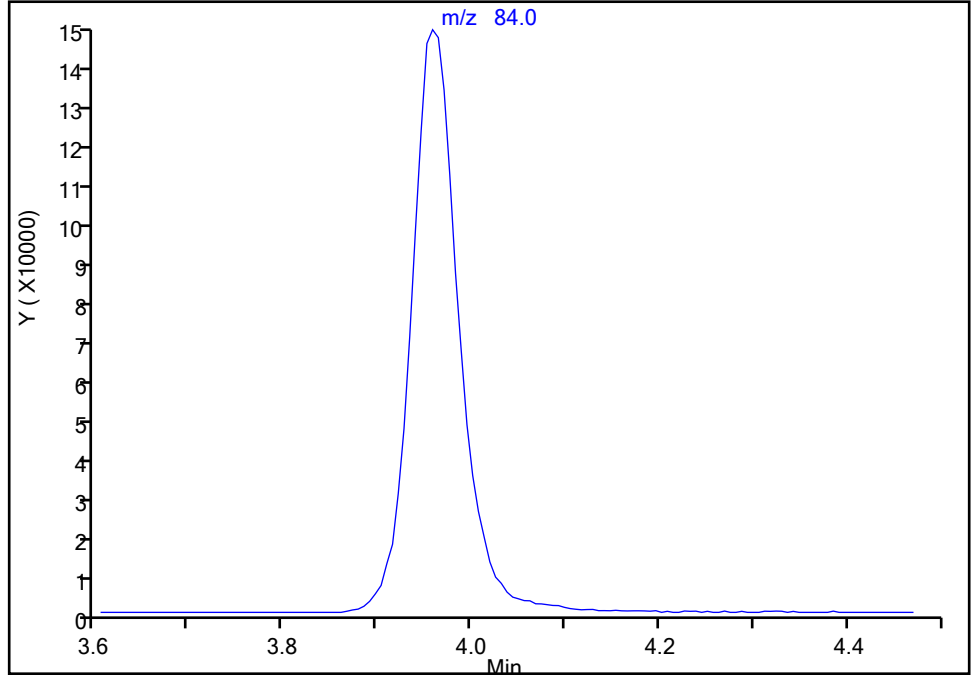
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

25 Methylene Chloride, CAS: 75-09-2

Signal: 1

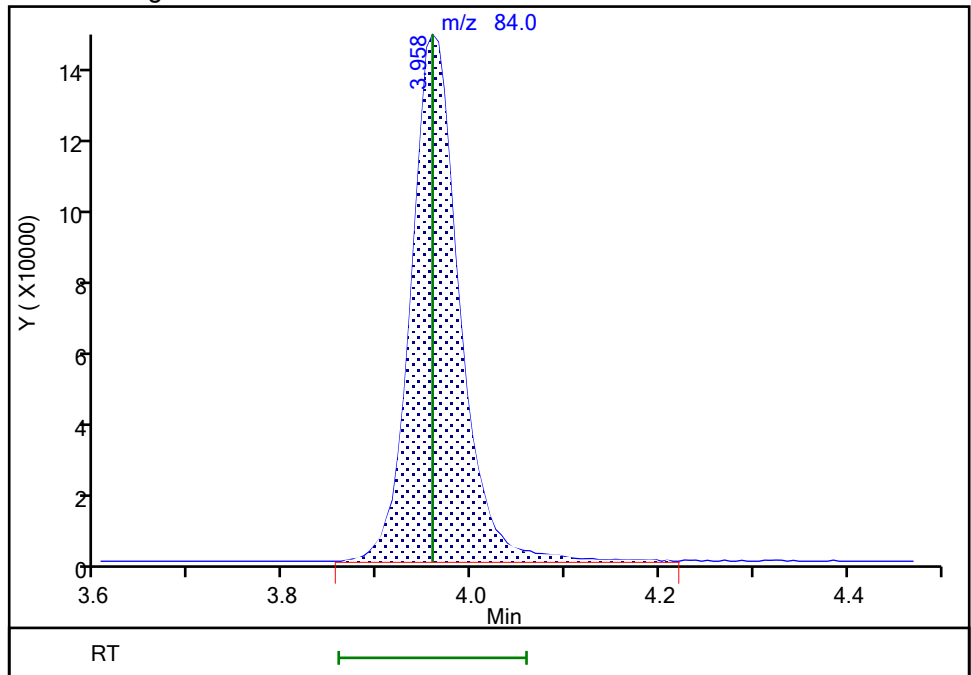
Not Detected  
Expected RT: 3.96

Processing Integration Results



Manual Integration Results

RT: 3.96  
Area: 518296  
Amount: 10.126292  
Amount Units: ug/l



Reviewer: DVW2, 21-Jun-2023 07:37:42 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

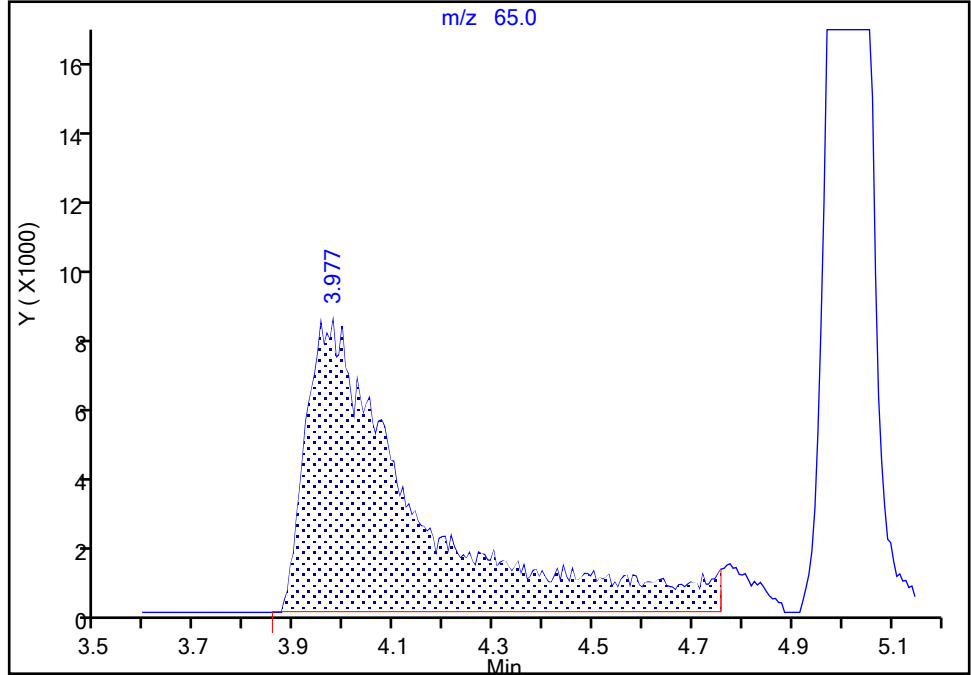
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X17.D  
Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 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

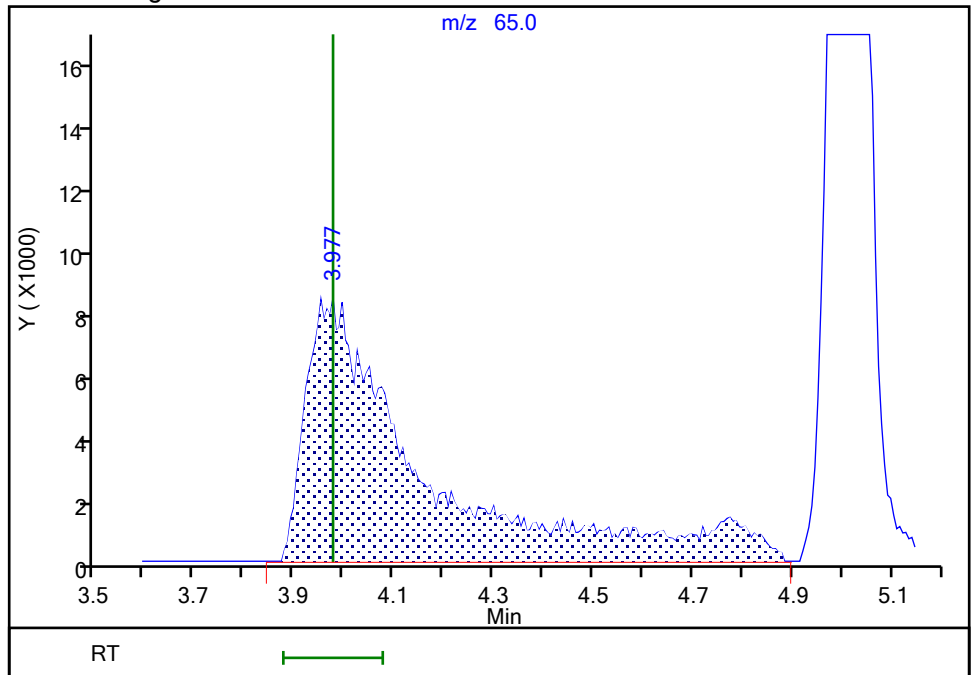
RT: 3.98  
Area: 124681  
Amount: 50.000000  
Amount Units: ug/l

Processing Integration Results



RT: 3.98  
Area: 130775  
Amount: 50.000000  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:35:34 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

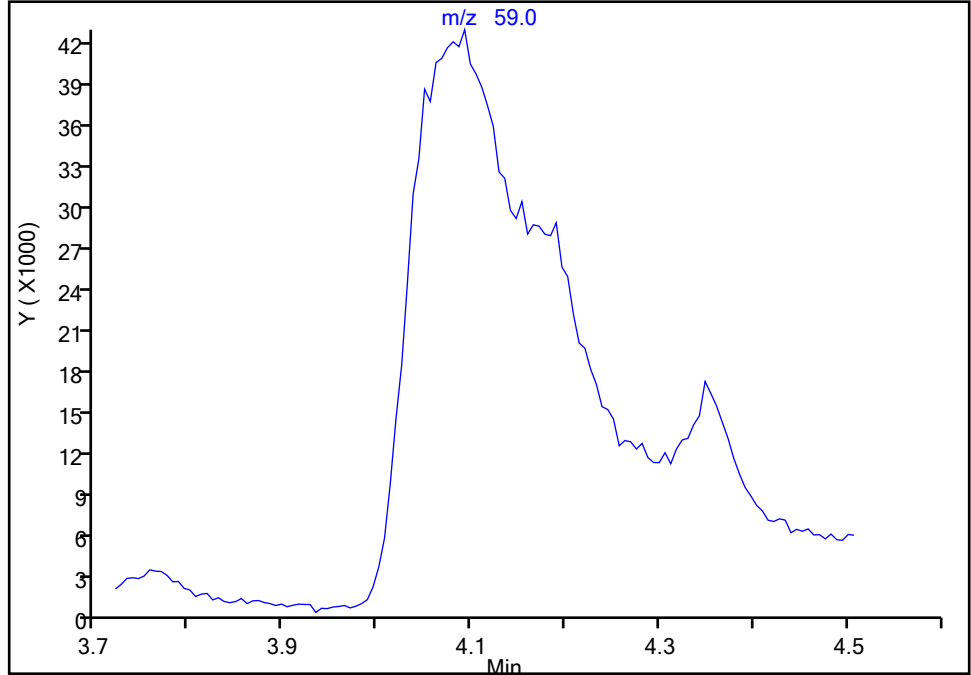
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

27 2-Methyl-2-propanol, CAS: 75-65-0

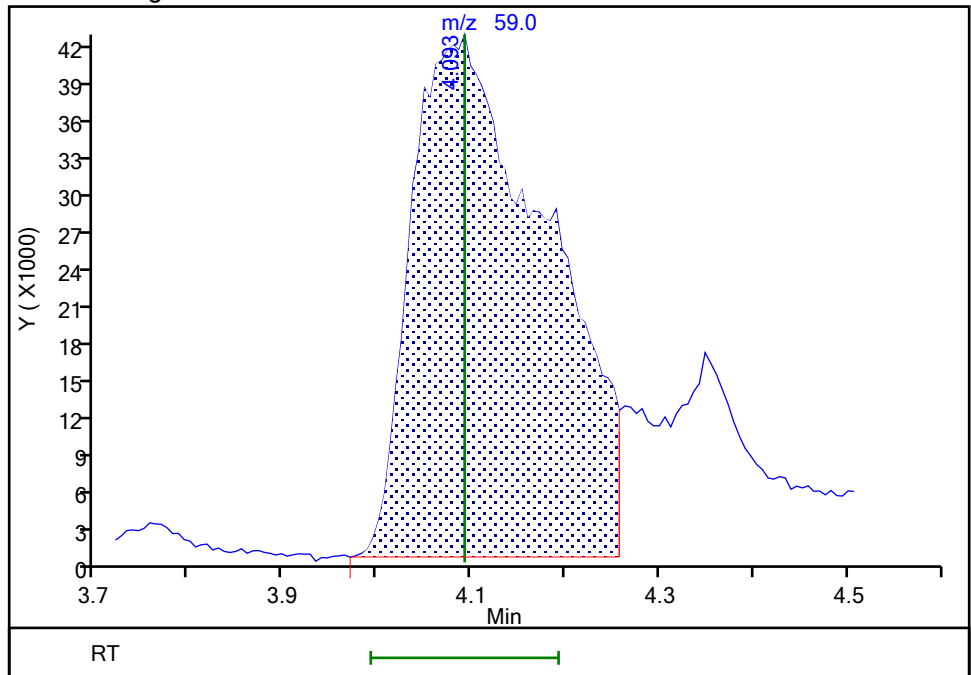
Signal: 1

Not Detected  
Expected RT: 4.09

Processing Integration Results



Manual Integration Results



RT: 4.09  
Area: 419183  
Amount: 168.4569  
Amount Units: ug/l

Reviewer: DVW2, 21-Jun-2023 07:37:54 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

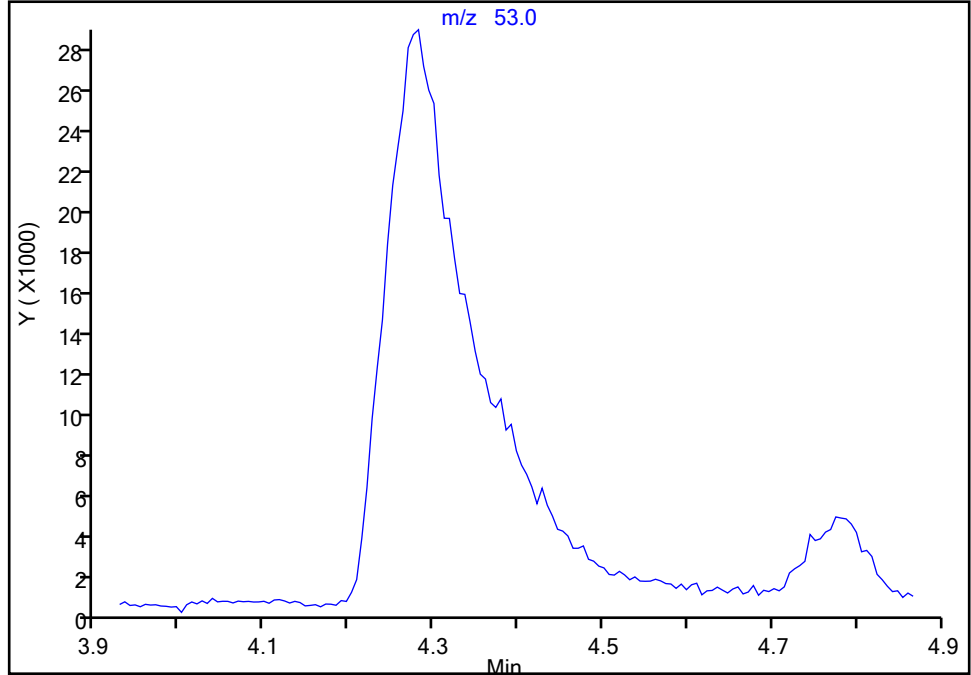
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

**28 Acrylonitrile, CAS: 107-13-1**

Signal: 1

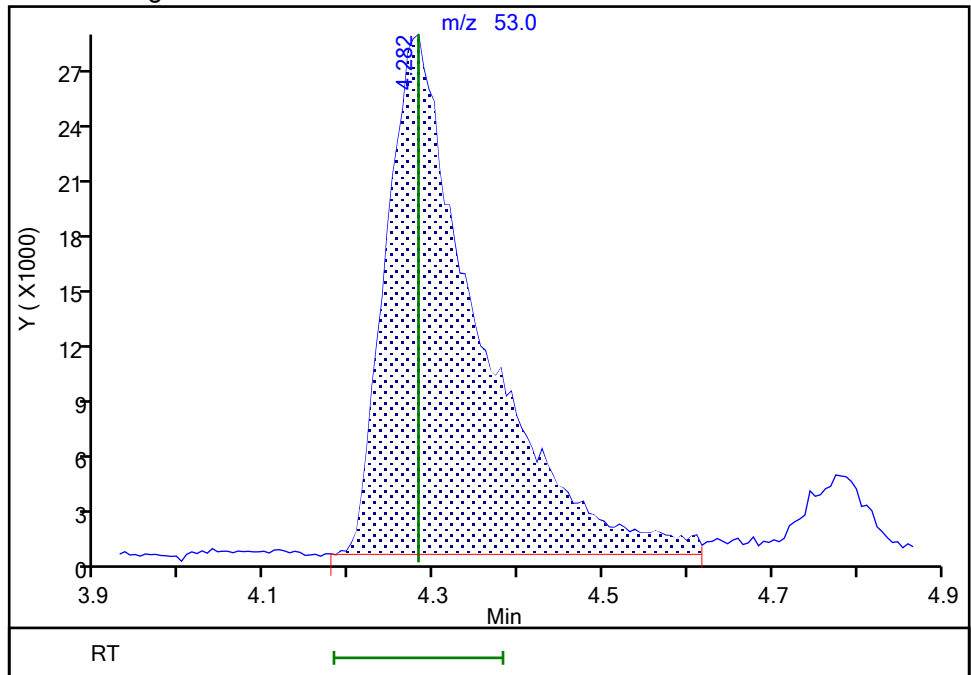
Not Detected  
Expected RT: 4.28

Processing Integration Results



Manual Integration Results

RT: 4.28  
Area: 215747  
Amount: 28.378415  
Amount Units: ug/l



Reviewer: DVW2, 21-Jun-2023 07:37:59 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

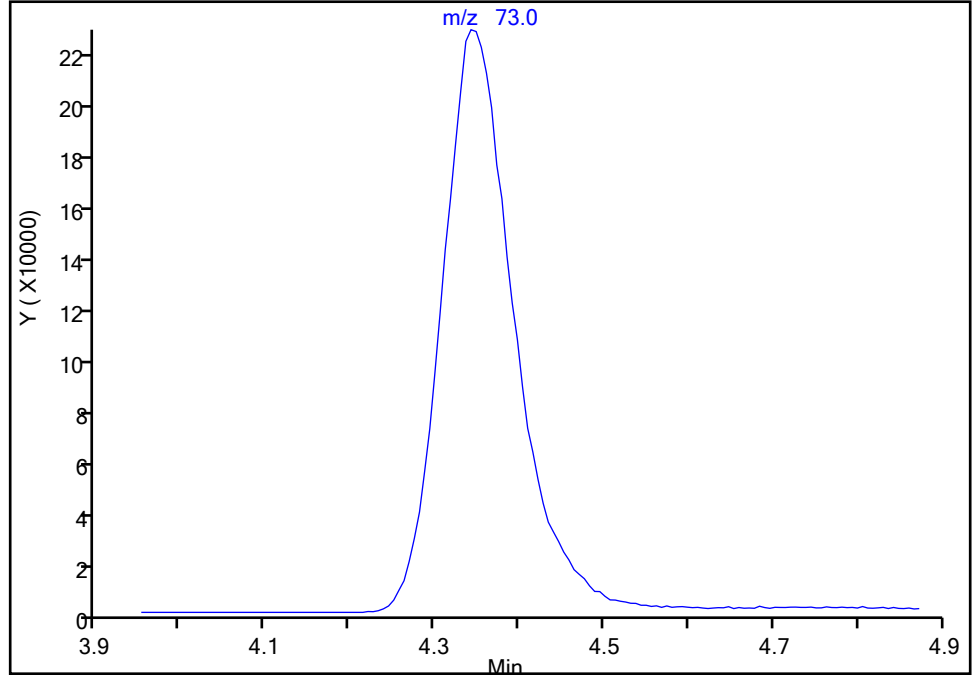
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Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

**29 Methyl tert-butyl ether, CAS: 1634-04-4**

Signal: 1

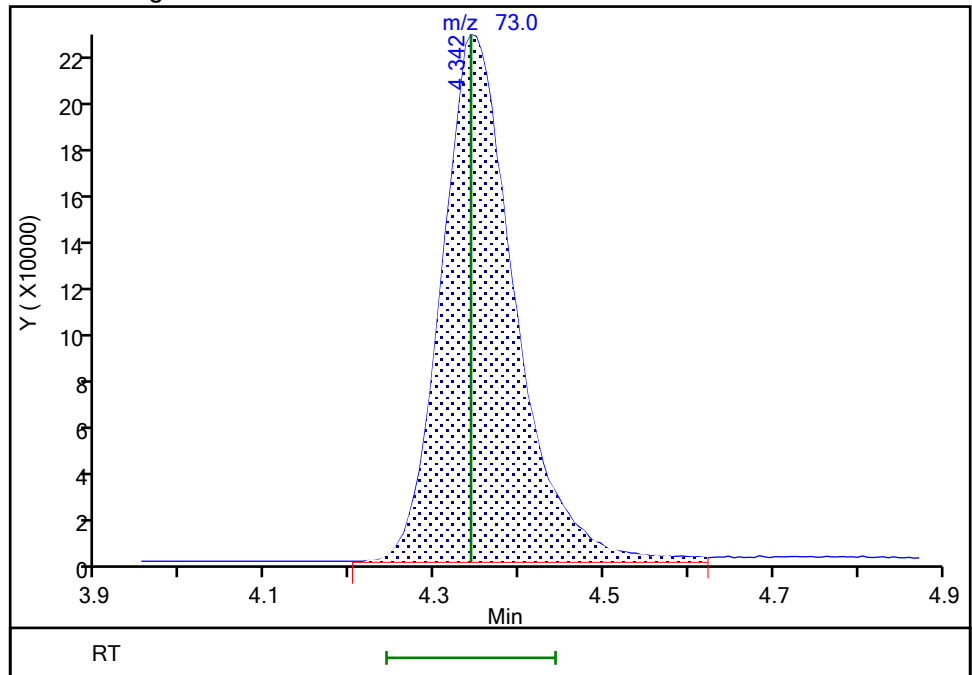
Not Detected  
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.34  
Area: 1328588  
Amount: 9.985857  
Amount Units: ug/l



Reviewer: DVW2, 21-Jun-2023 07:38:02 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

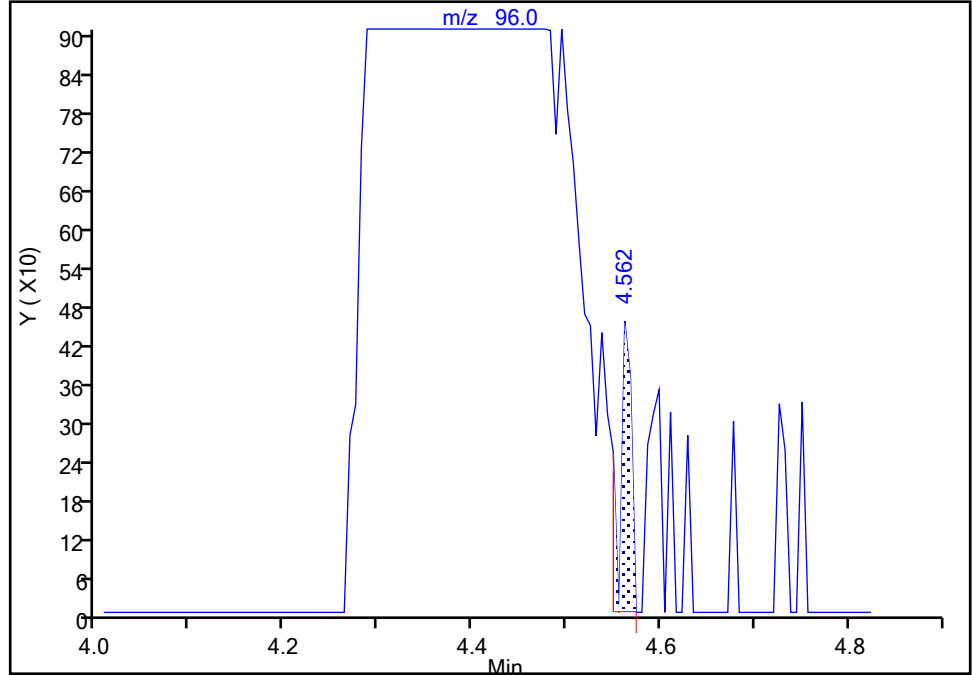
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

**30 trans-1,2-Dichloroethene, CAS: 156-60-5**

Signal: 1

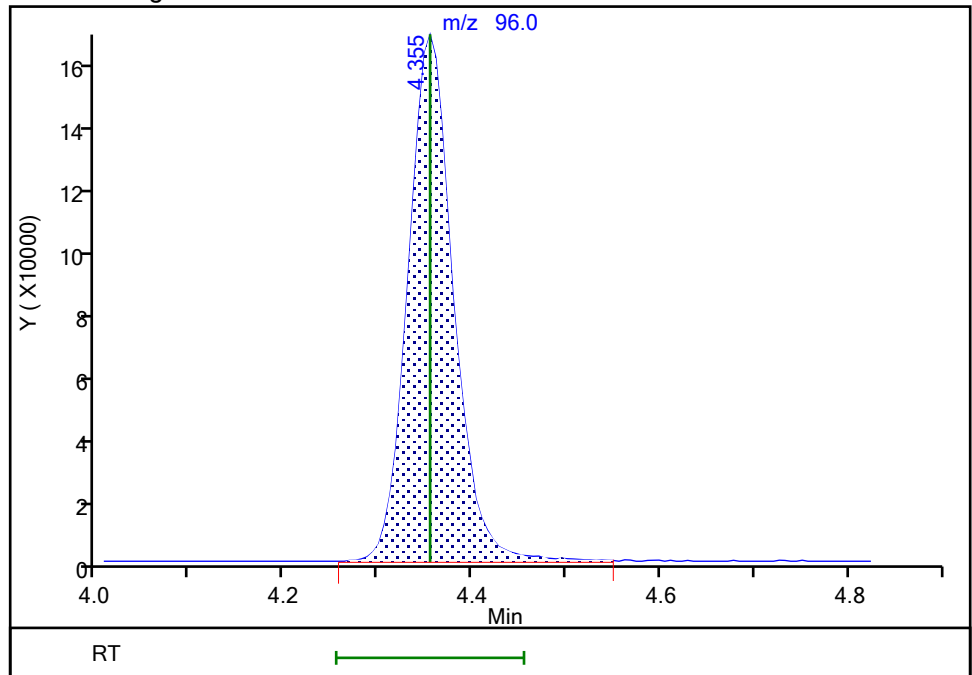
RT: 4.56  
Area: 392  
Amount: 10.000000  
Amount Units: ug/l

Processing Integration Results



RT: 4.35  
Area: 549965  
Amount: 10.193007  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:38:05 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration



Eurofins Lancaster Laboratories Environment Testing, LLC

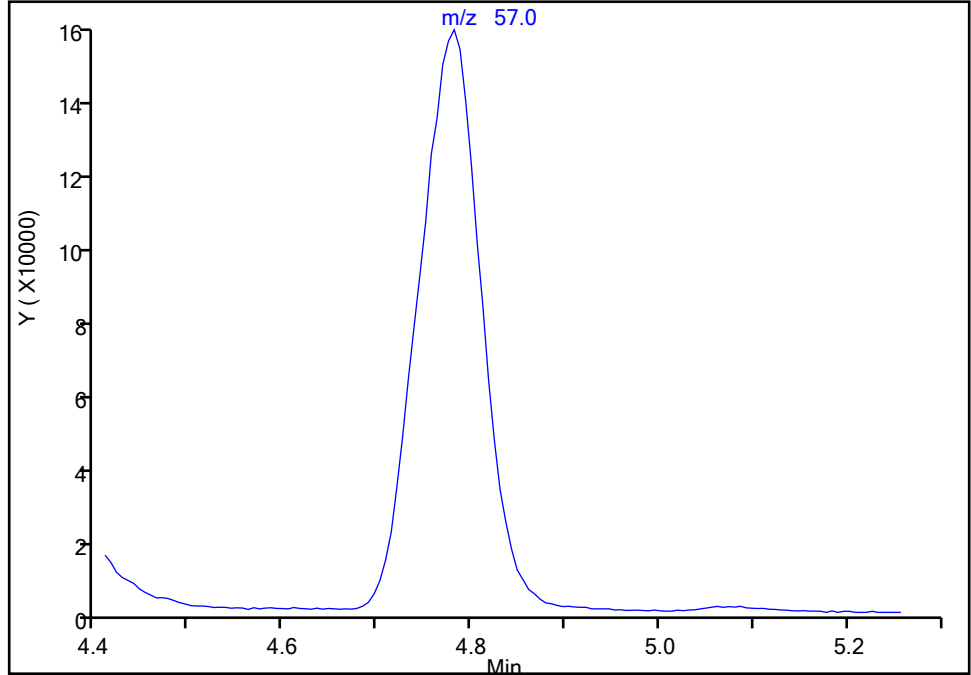
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

31 Hexane, CAS: 110-54-3

Signal: 1

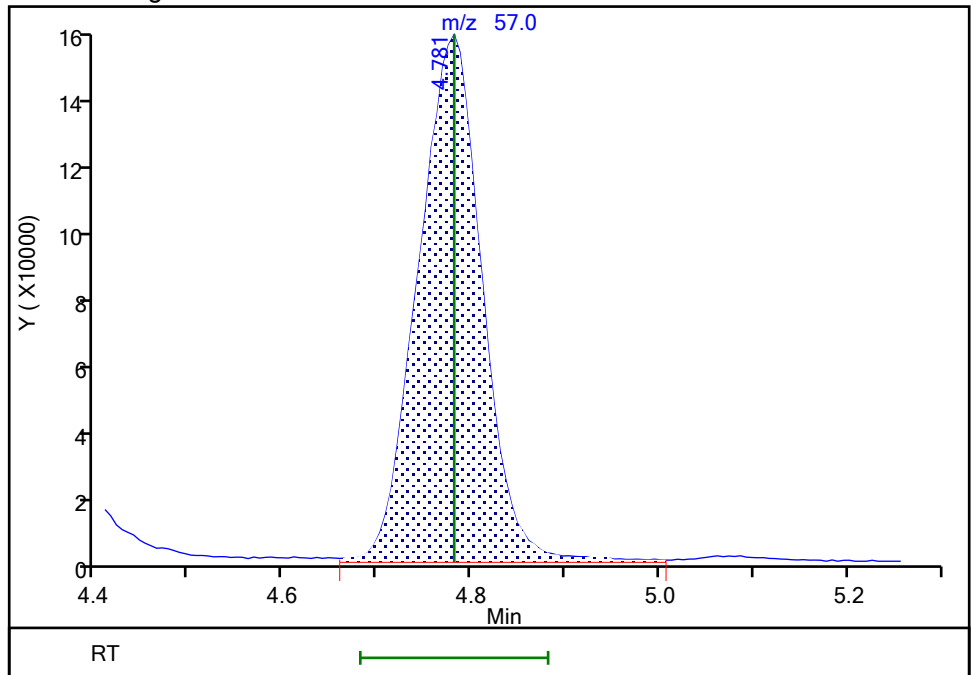
Not Detected  
Expected RT: 4.78

Processing Integration Results



Manual Integration Results

RT: 4.78  
Area: 747981  
Amount: 10.576597  
Amount Units: ug/l



Reviewer: DVW2, 21-Jun-2023 07:38:09 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

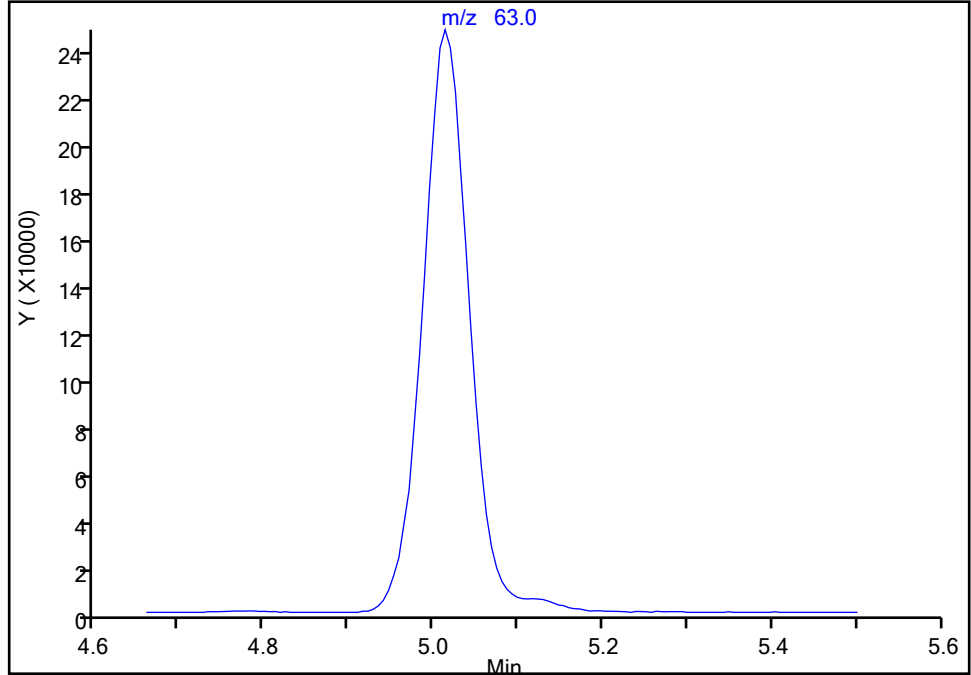
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

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

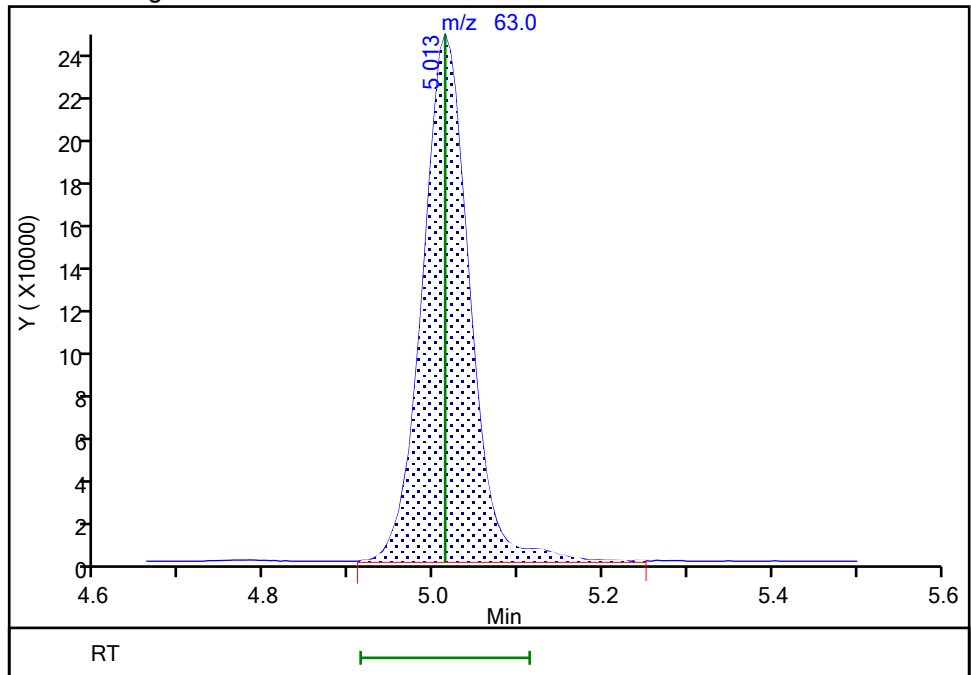
Signal: 1

Not Detected  
Expected RT: 5.01

Processing Integration Results



Manual Integration Results



RT: 5.01  
Area: 957603  
Amount: 10.359875  
Amount Units: ug/l

Reviewer: DVW2, 21-Jun-2023 07:38:12 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

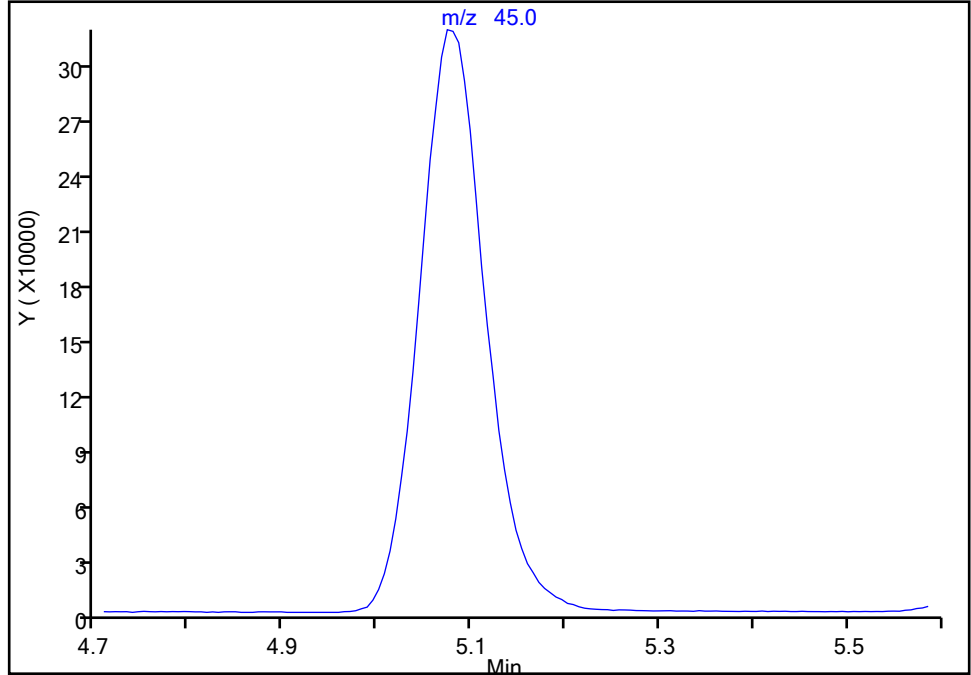
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

**35 Isopropyl ether, CAS: 108-20-3**

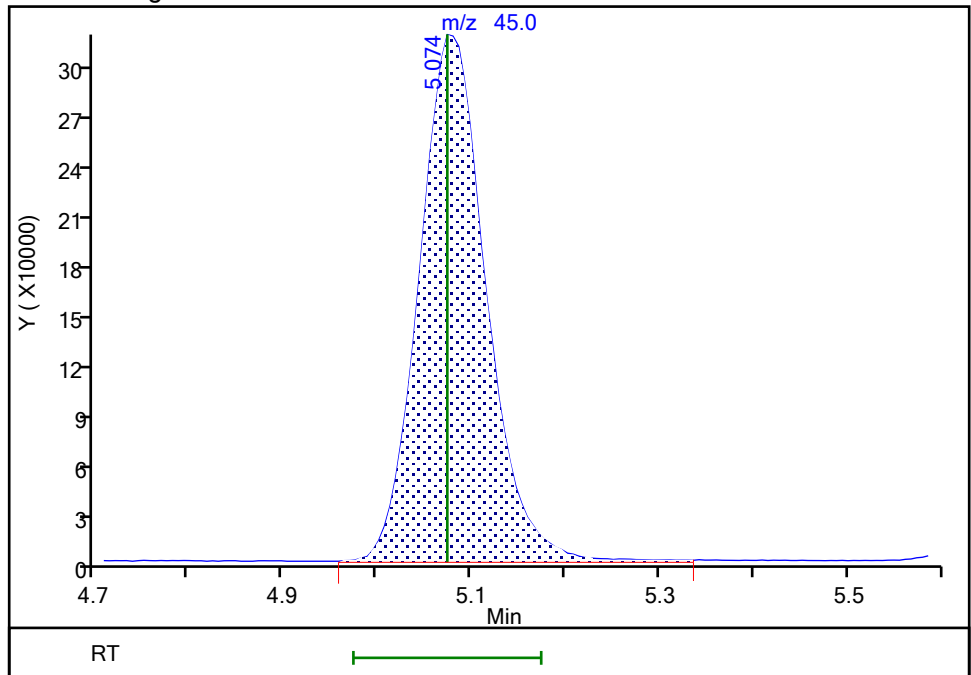
Signal: 1

Not Detected  
Expected RT: 5.07

Processing Integration Results



Manual Integration Results



RT: 5.07  
Area: 1538859  
Amount: 10.138104  
Amount Units: ug/l

Reviewer: DVW2, 21-Jun-2023 07:38:15 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

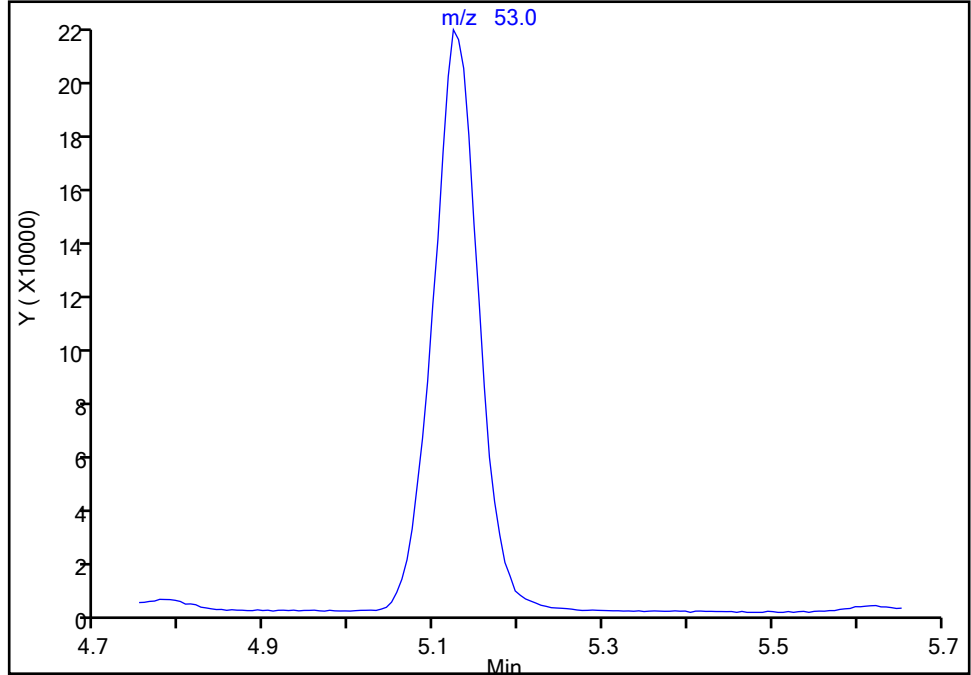
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

**36 2-Chloro-1,3-butadiene, CAS: 126-99-8**

Signal: 1

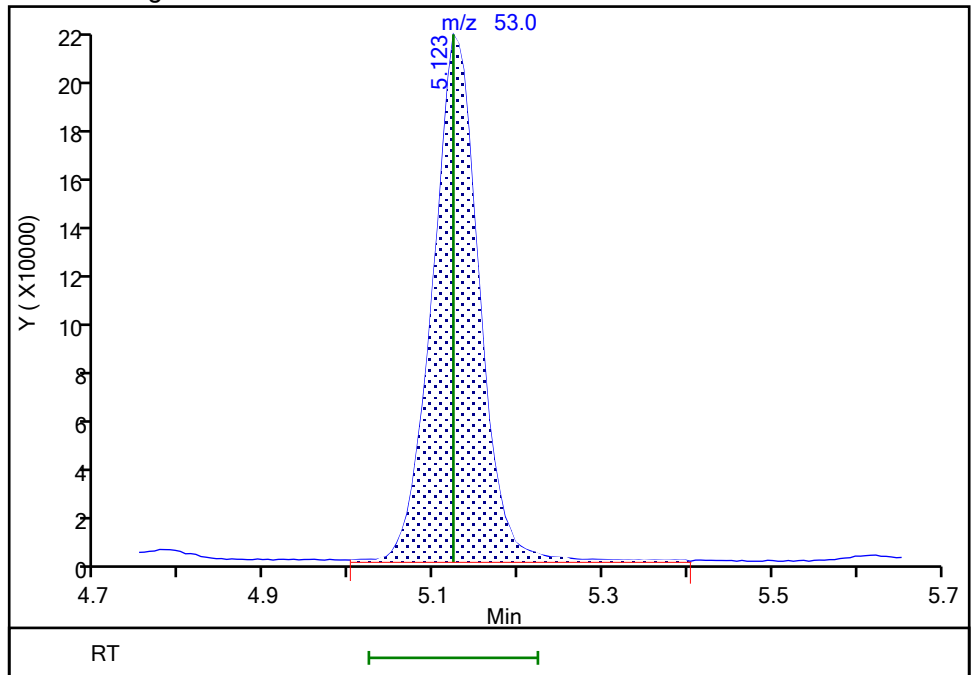
Not Detected  
Expected RT: 5.12

Processing Integration Results



Manual Integration Results

RT: 5.12  
Area: 806204  
Amount: 10.431137  
Amount Units: ug/l



Reviewer: DVW2, 21-Jun-2023 07:38:18 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

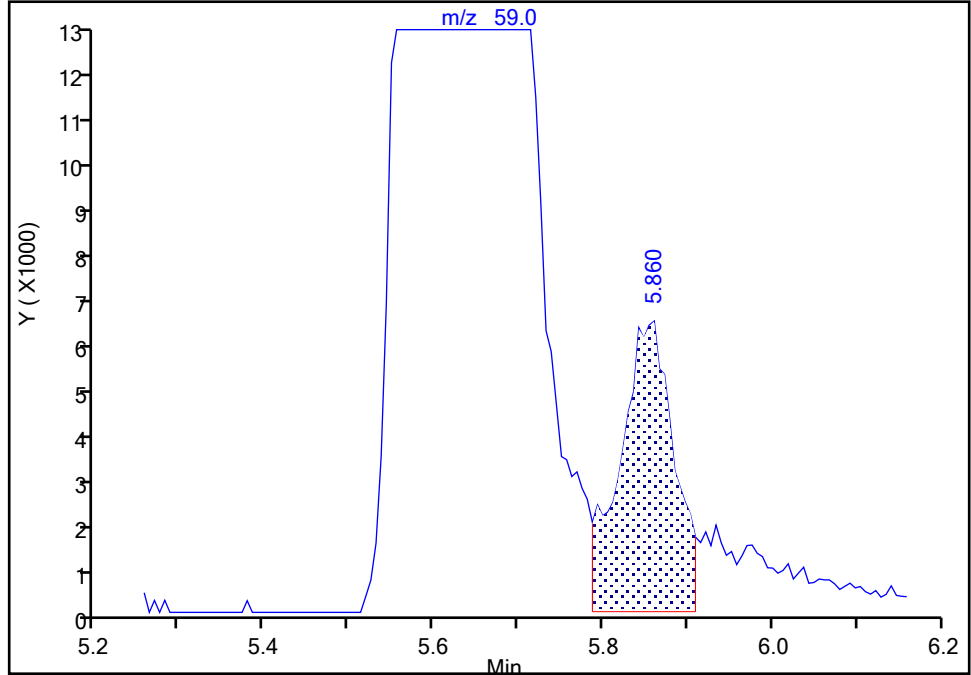
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

**37 Tert-butyl ethyl ether, CAS: 637-92-3**

Signal: 1

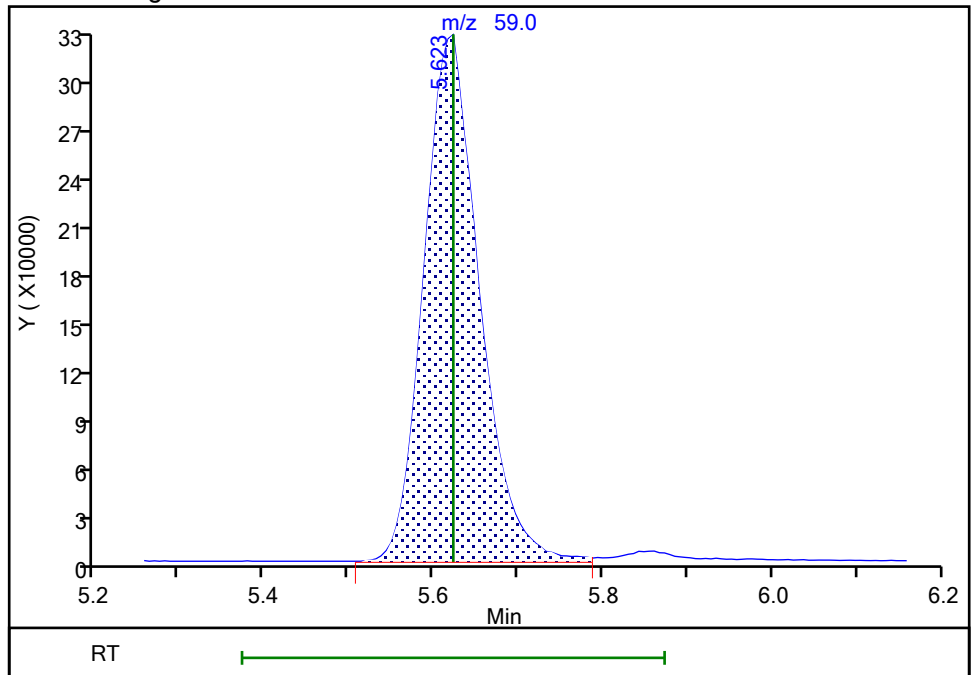
RT: 5.86  
Area: 28220  
Amount: 0.003154  
Amount Units: ug/l

Processing Integration Results



RT: 5.62  
Area: 1475081  
Amount: 10.174236  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:38:21 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

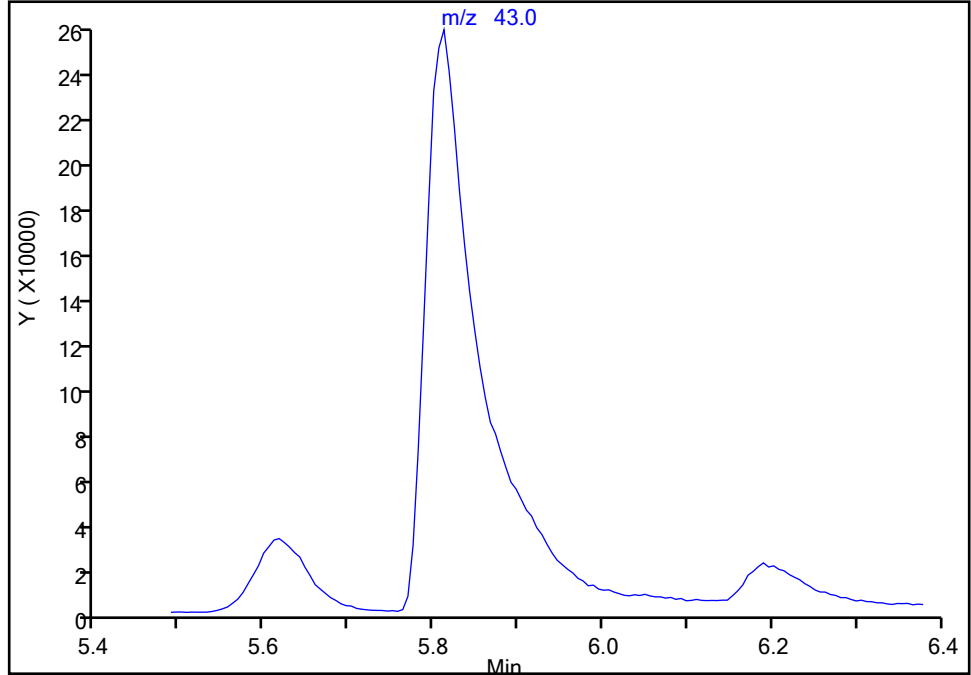
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

**38 2-Butanone (MEK), CAS: 78-93-3**

Signal: 1

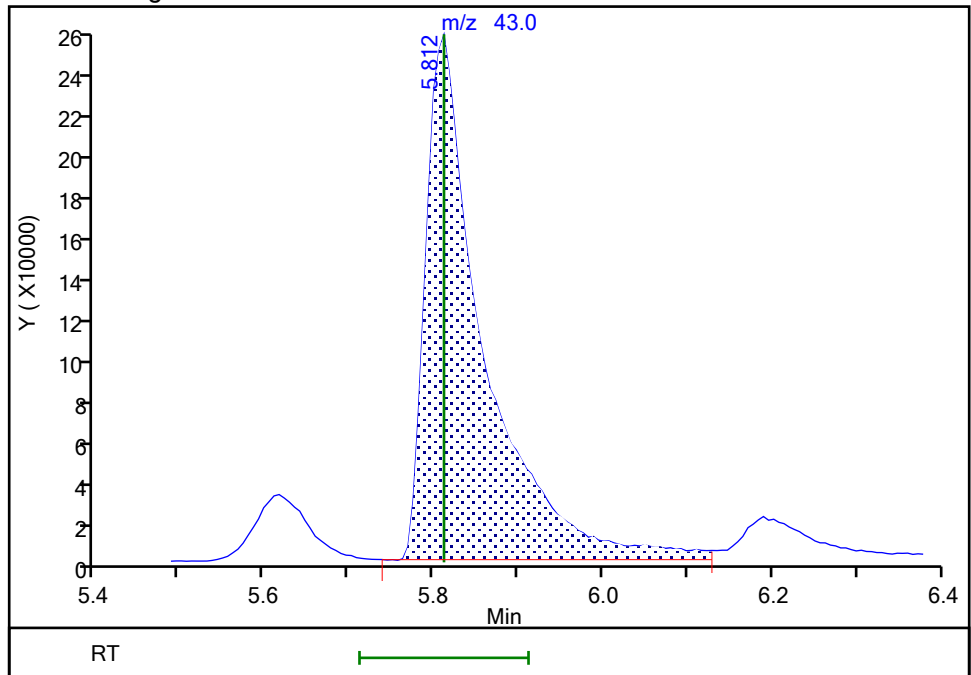
Not Detected  
Expected RT: 5.81

Processing Integration Results



Manual Integration Results

RT: 5.81  
Area: 1212881  
Amount: 100.6332  
Amount Units: ug/l



Reviewer: DVW2, 21-Jun-2023 07:38:25 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

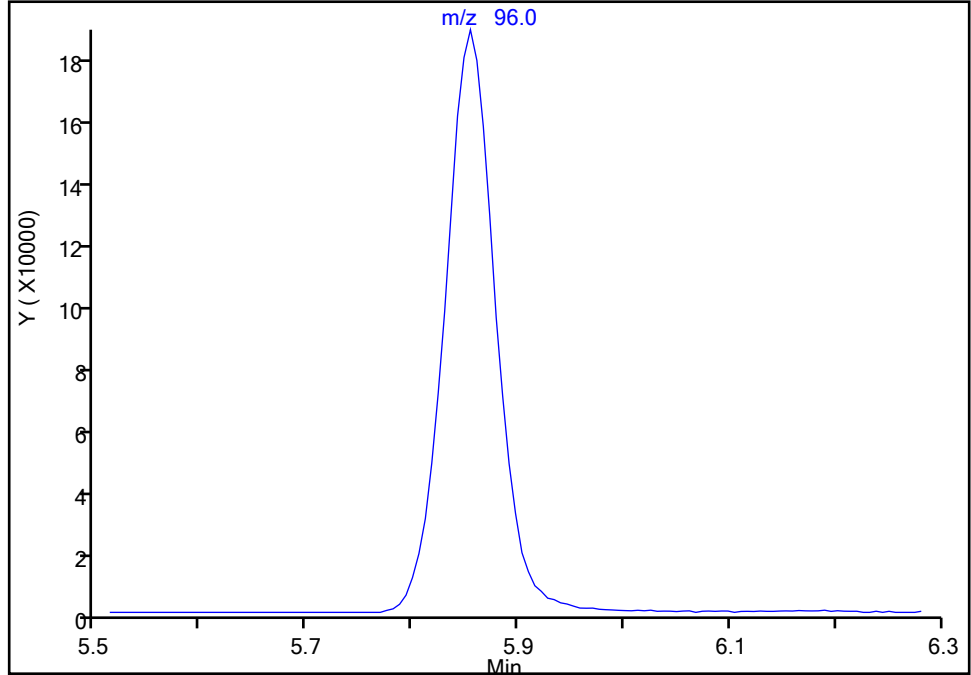
Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X17.D  
Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

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

Signal: 1

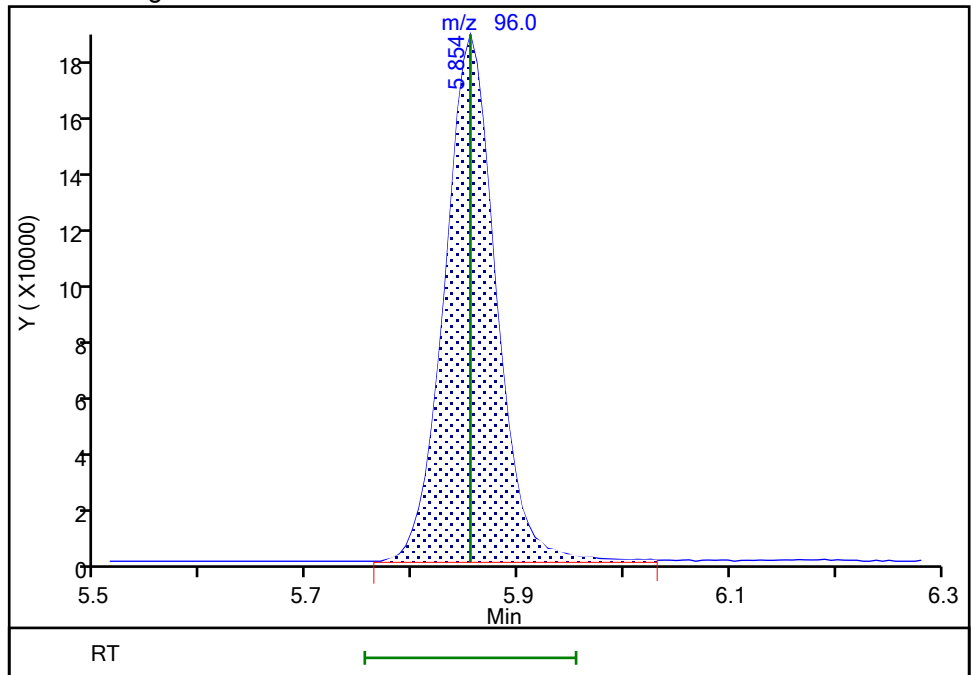
Not Detected  
Expected RT: 5.85

Processing Integration Results



Manual Integration Results

RT: 5.85  
Area: 607013  
Amount: 10.112324  
Amount Units: ug/l



Reviewer: DVW2, 21-Jun-2023 07:38:28 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

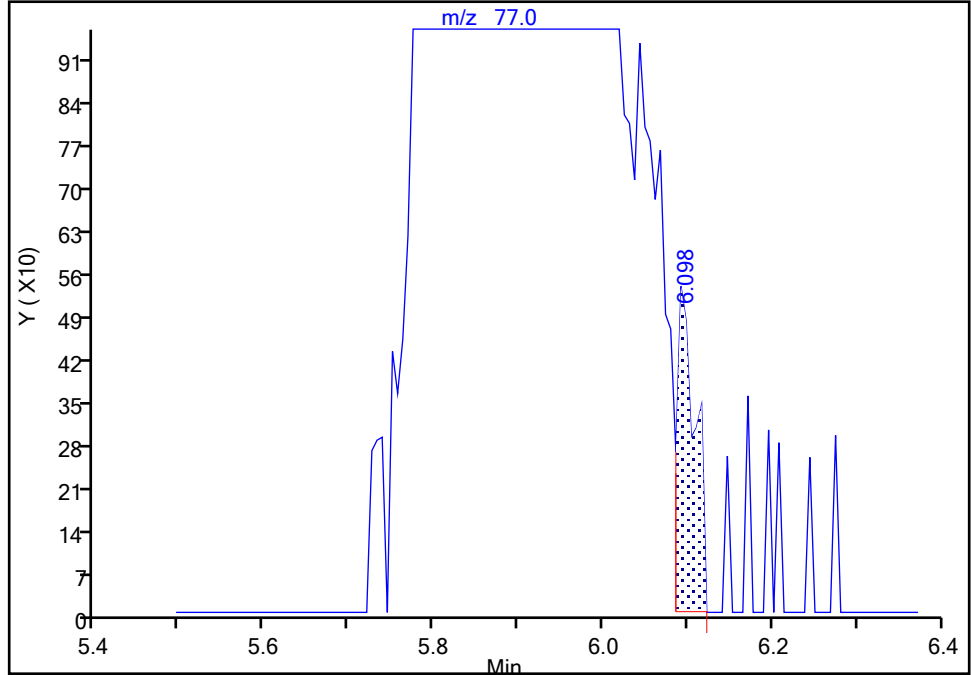
Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X17.D  
Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

40 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

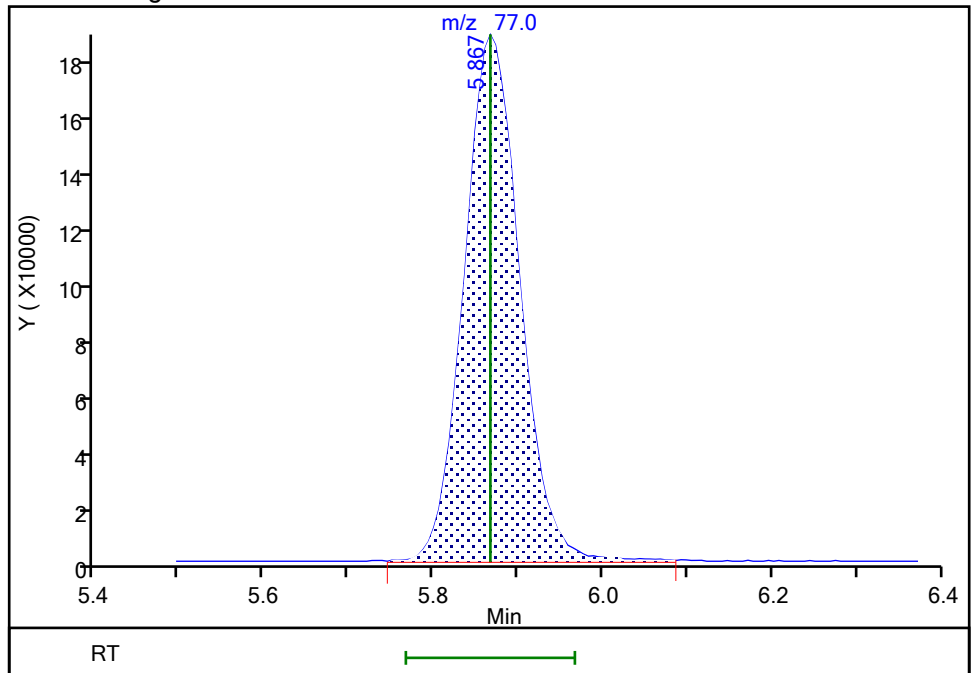
RT: 6.10  
Area: 809  
Amount: 5.763513  
Amount Units: ug/l

Processing Integration Results



RT: 5.87  
Area: 853357  
Amount: 10.245278  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:38:34 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration



Eurofins Lancaster Laboratories Environment Testing, LLC

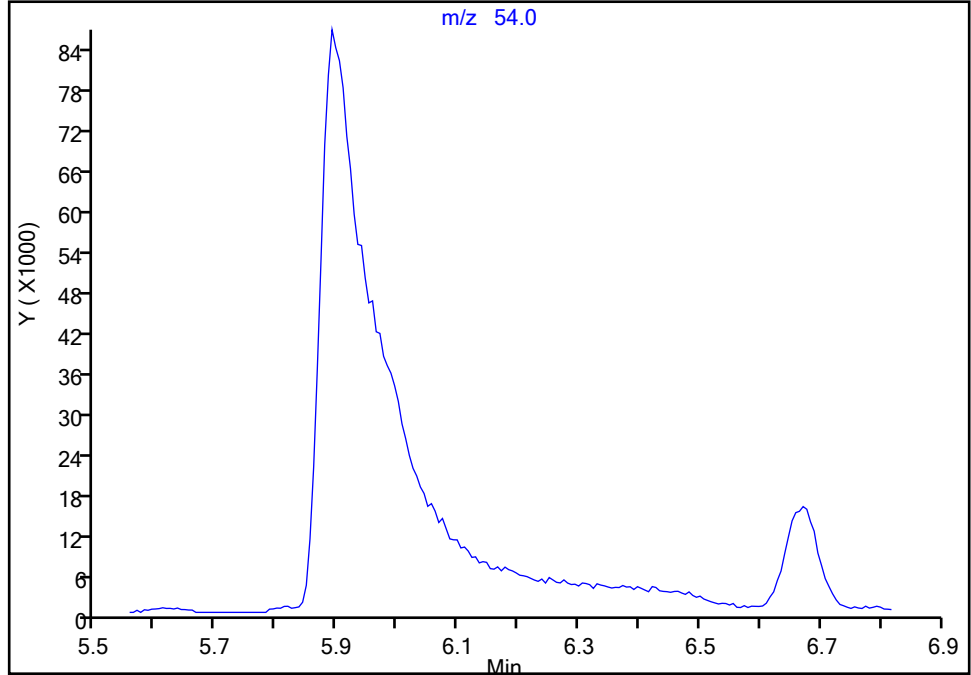
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

43 Propionitrile, CAS: 107-12-0

Signal: 1

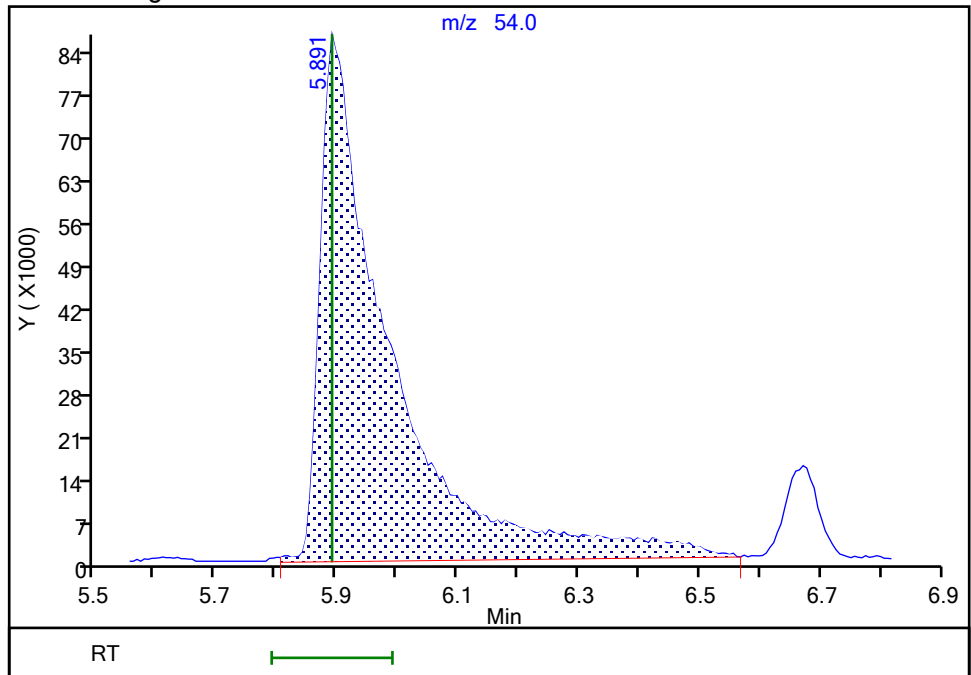
Not Detected  
Expected RT: 5.89

Processing Integration Results



Manual Integration Results

RT: 5.89  
Area: 686213  
Amount: 215.2686  
Amount Units: ug/l



Reviewer: DVW2, 21-Jun-2023 07:38:31 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

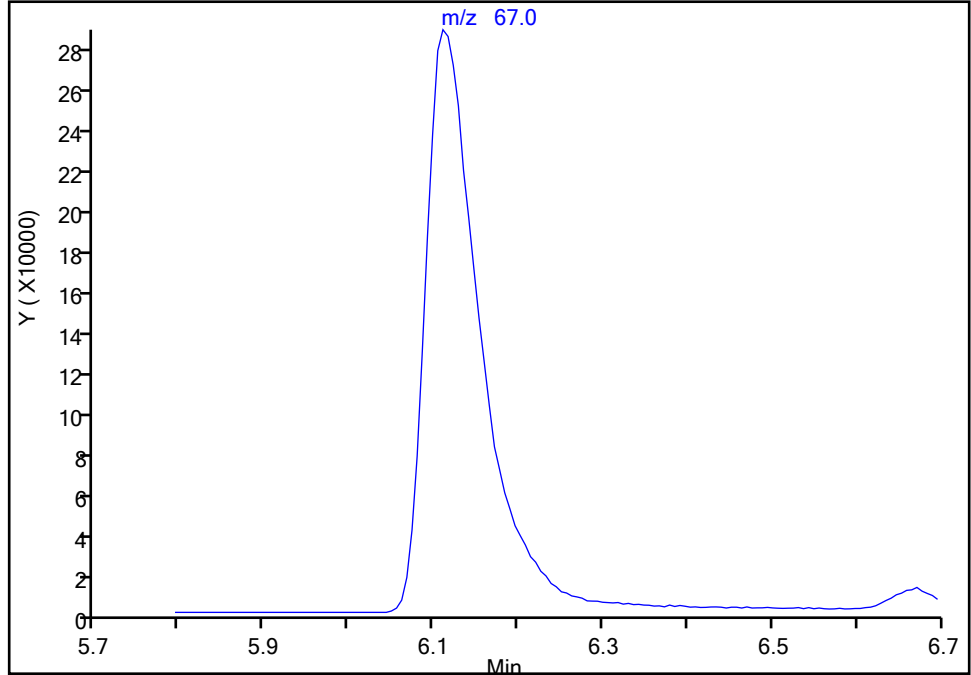
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

**45 Methacrylonitrile, CAS: 126-98-7**

Signal: 1

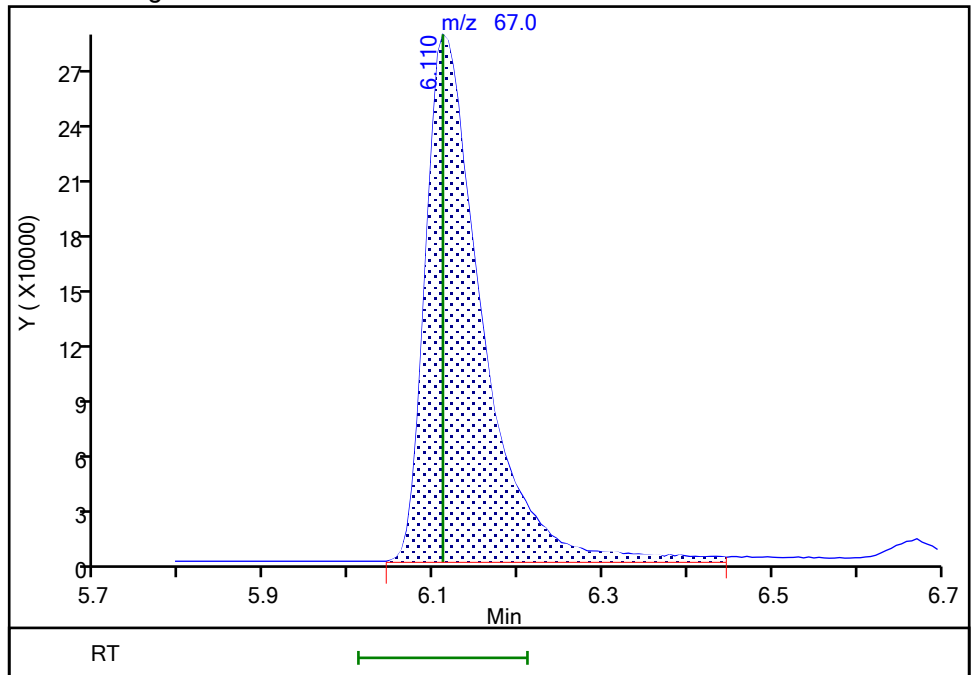
Not Detected  
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.11  
Area: 1304884  
Amount: 103.7383  
Amount Units: ug/l



Reviewer: DVW2, 21-Jun-2023 07:38:38 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

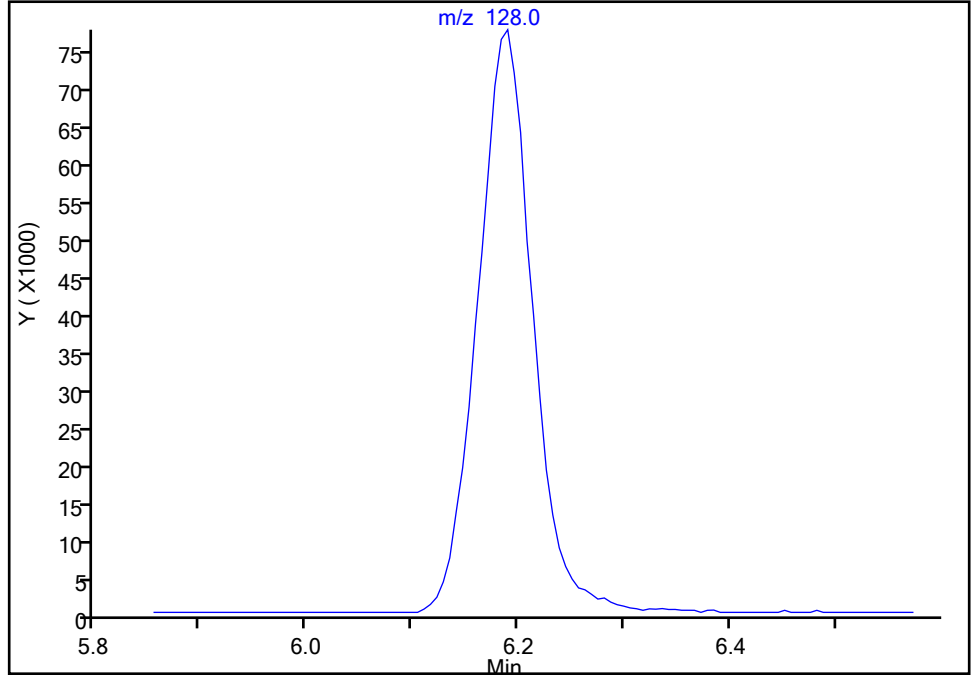
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

**46 Chlorobromomethane, CAS: 74-97-5**

Signal: 1

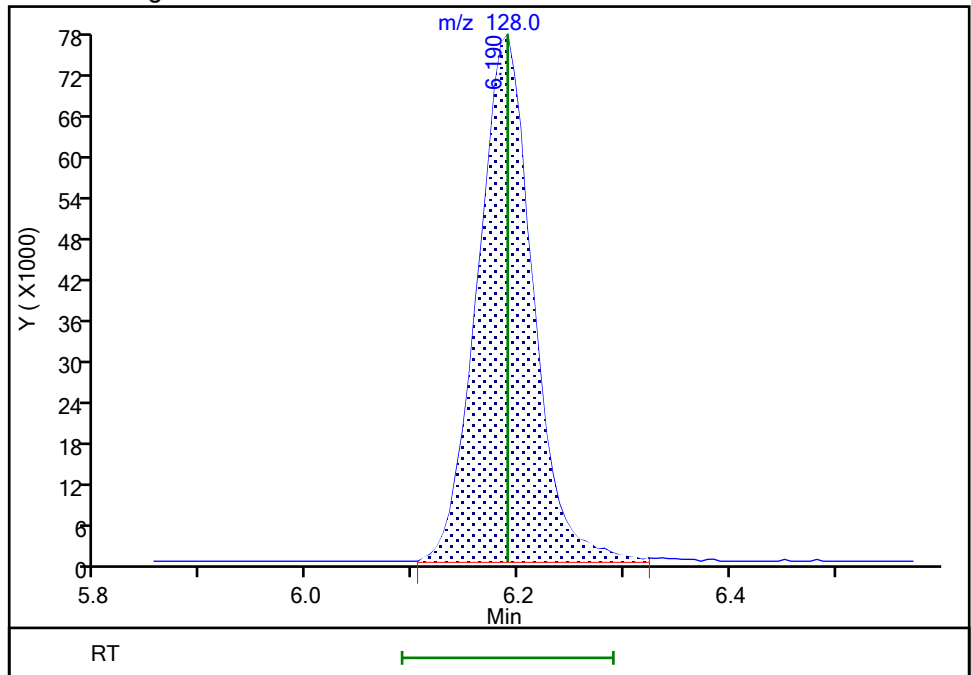
Not Detected  
Expected RT: 6.19

Processing Integration Results



Manual Integration Results

RT: 6.19  
Area: 278362  
Amount: 10.193516  
Amount Units: ug/l



Reviewer: DVW2, 21-Jun-2023 07:38:41 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

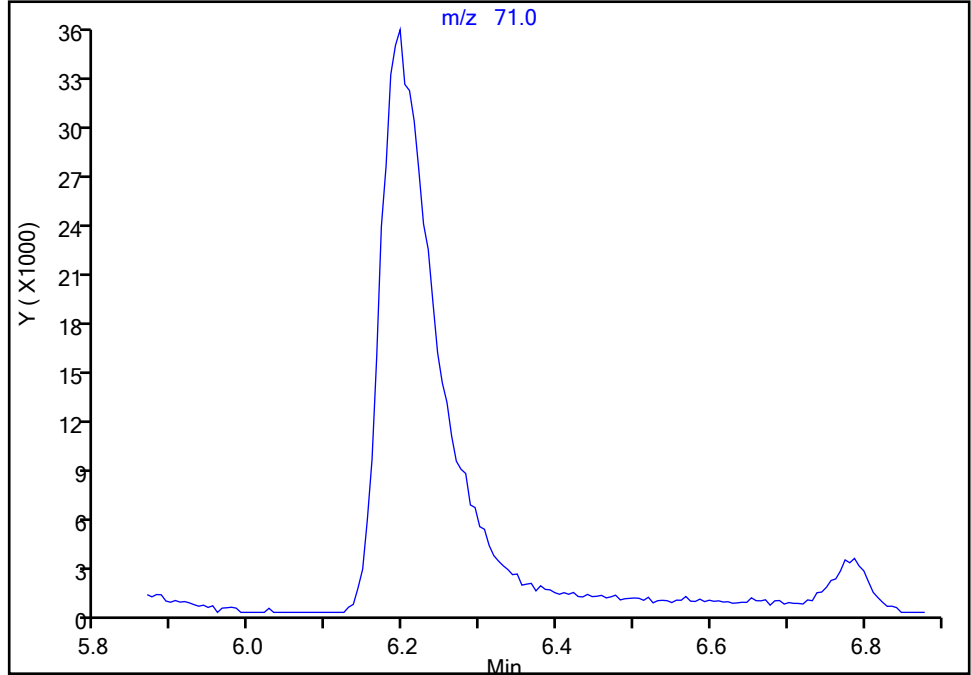
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Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

47 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

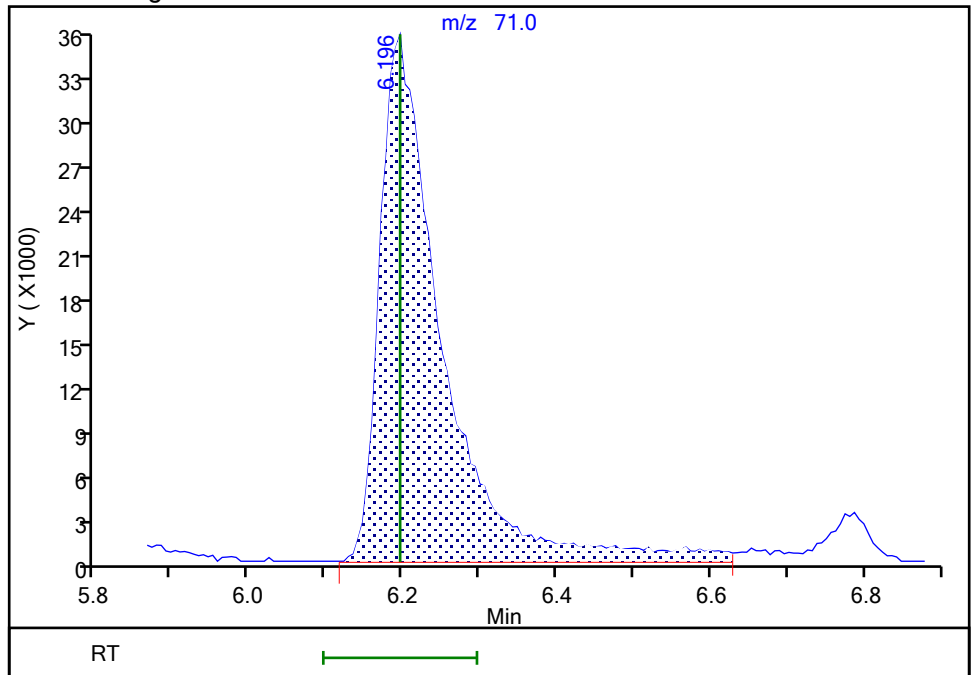
Not Detected  
Expected RT: 6.20

Processing Integration Results



Manual Integration Results

RT: 6.20  
Area: 200641  
Amount: 50.587516  
Amount Units: ug/l



Reviewer: DVW2, 21-Jun-2023 07:38:44 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

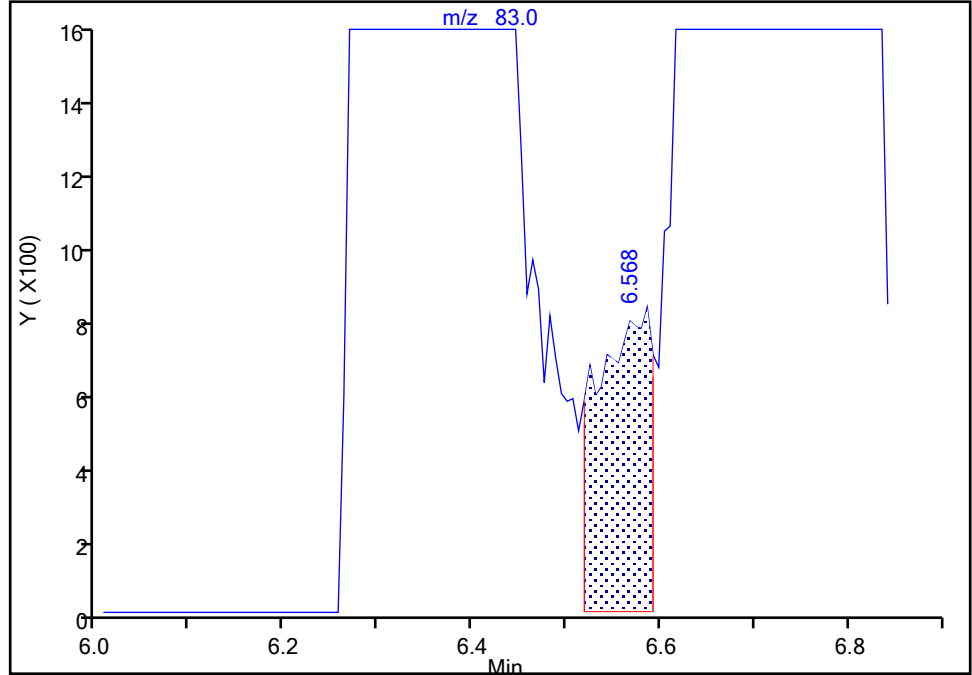
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

48 Chloroform, CAS: 67-66-3

Signal: 1

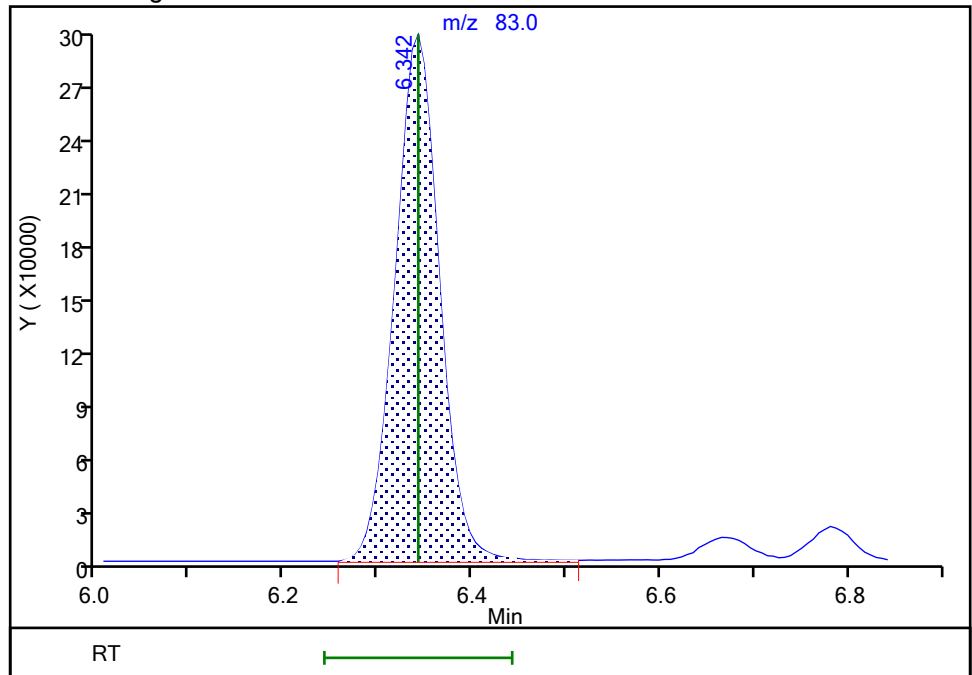
RT: 6.57  
Area: 3291  
Amount: 10.000000  
Amount Units: ug/l

Processing Integration Results



RT: 6.34  
Area: 973119  
Amount: 10.191256  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:38:50 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

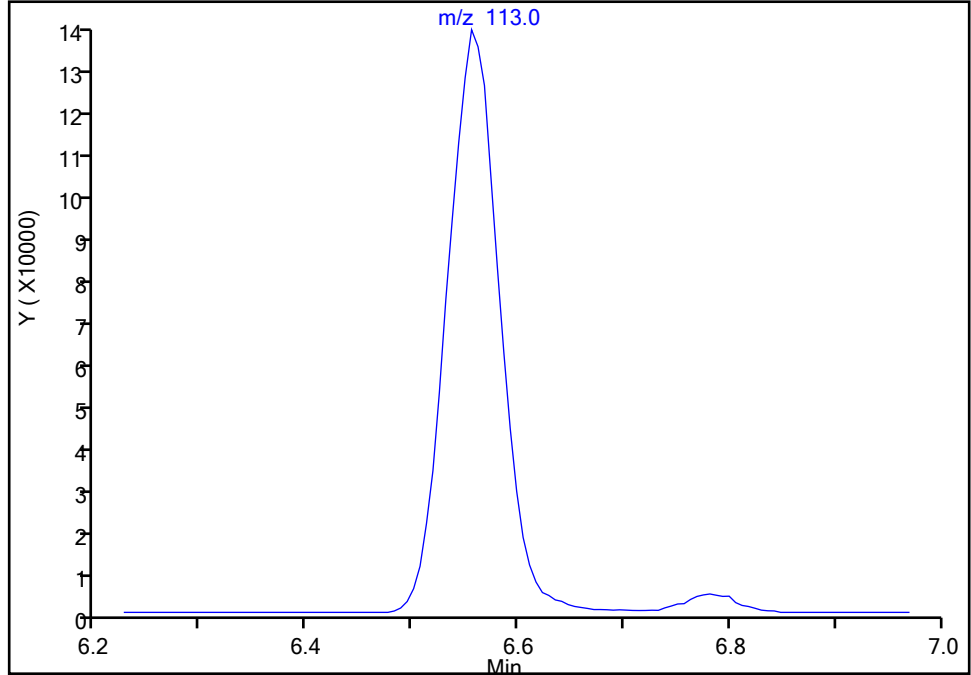
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

**\$ 49 Dibromofluoromethane (Surr), CAS: 1868-53-7**

Signal: 1

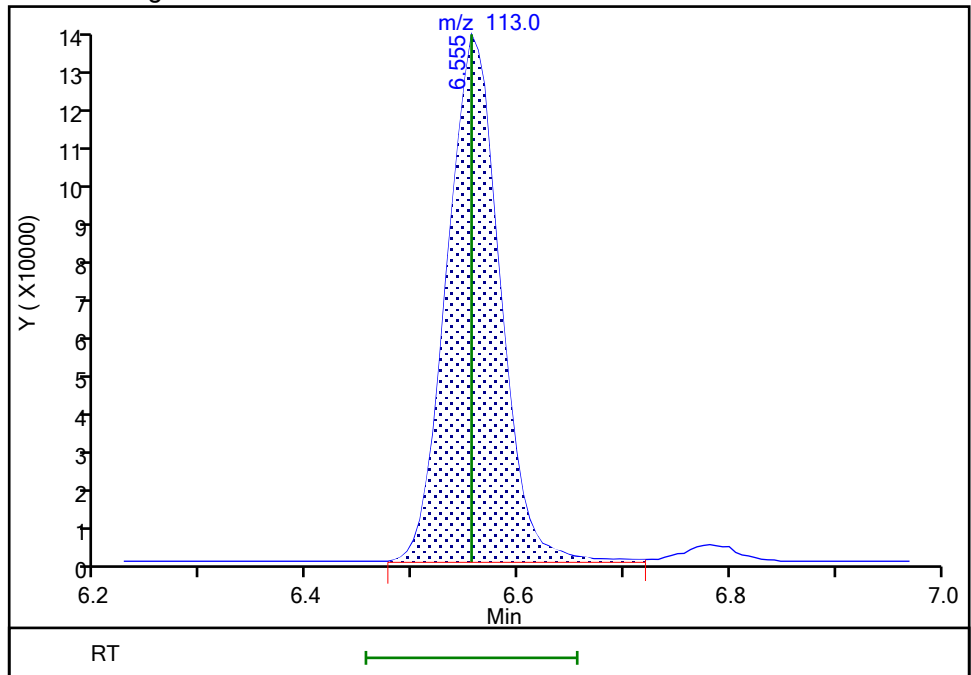
Not Detected  
Expected RT: 6.56

Processing Integration Results



Manual Integration Results

RT: 6.56  
Area: 464653  
Amount: 10.007334  
Amount Units: ug/l



Reviewer: DVW2, 21-Jun-2023 07:35:20 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

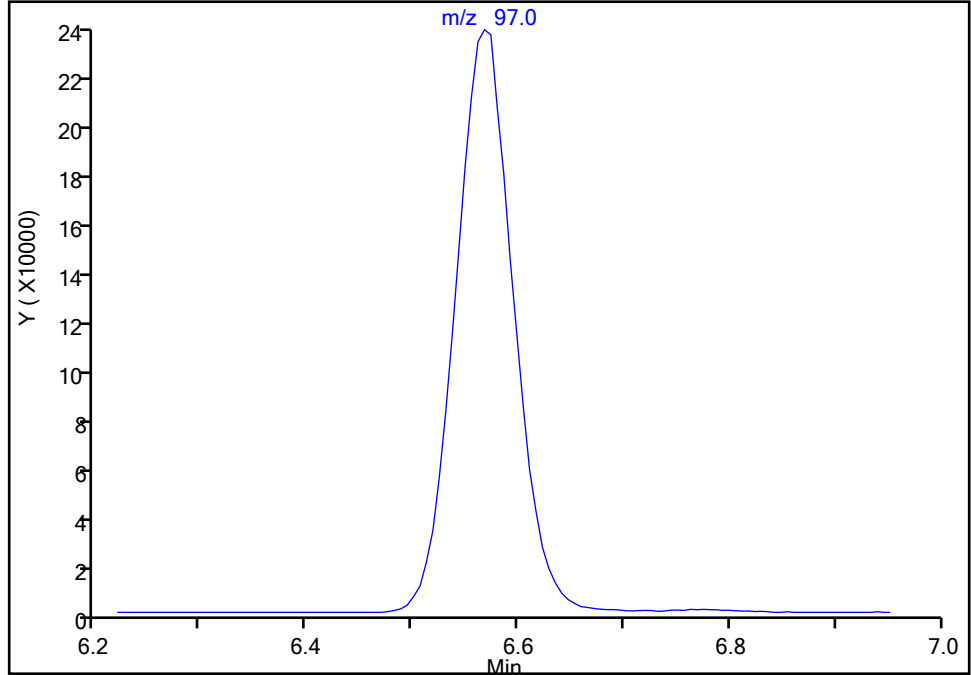
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

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

Signal: 1

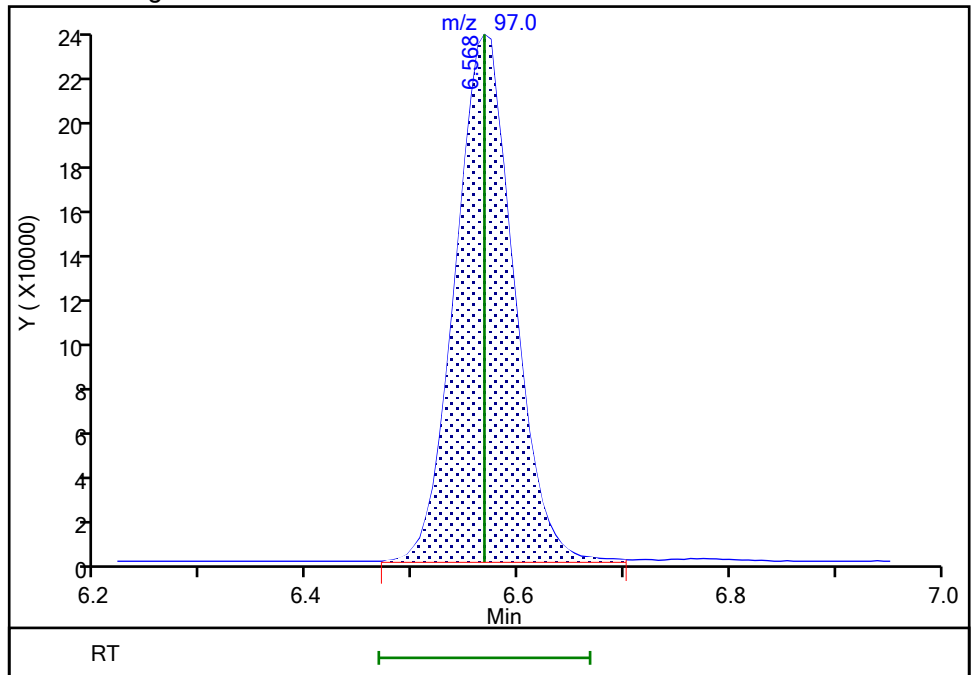
Not Detected  
Expected RT: 6.57

Processing Integration Results



Manual Integration Results

RT: 6.57  
Area: 914467  
Amount: 10.255781  
Amount Units: ug/l



Reviewer: DVW2, 21-Jun-2023 07:38:55 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

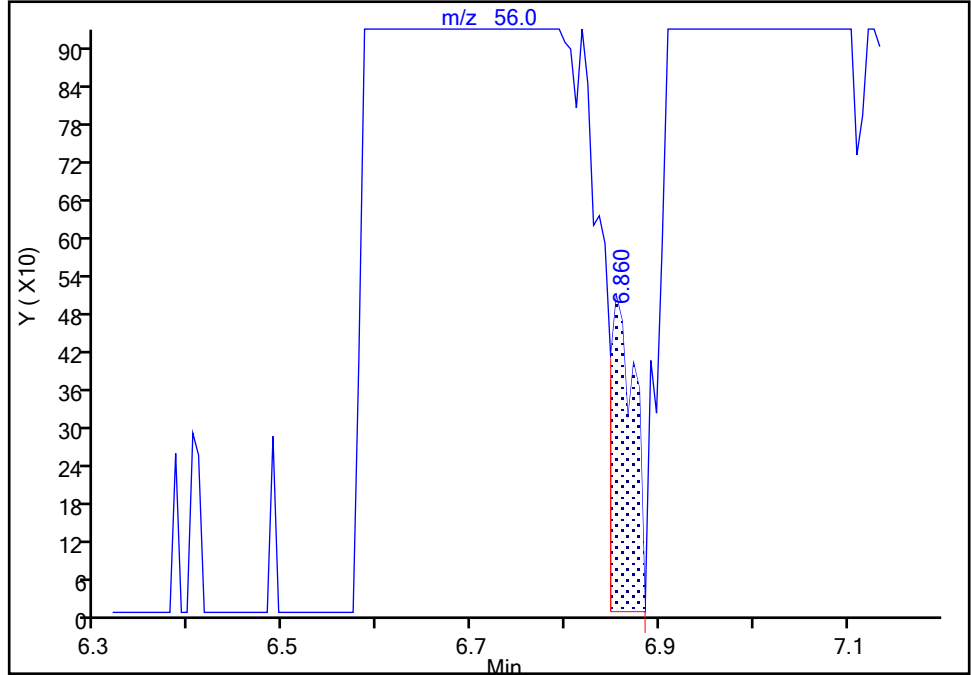
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Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

51 Cyclohexane, CAS: 110-82-7

Signal: 1

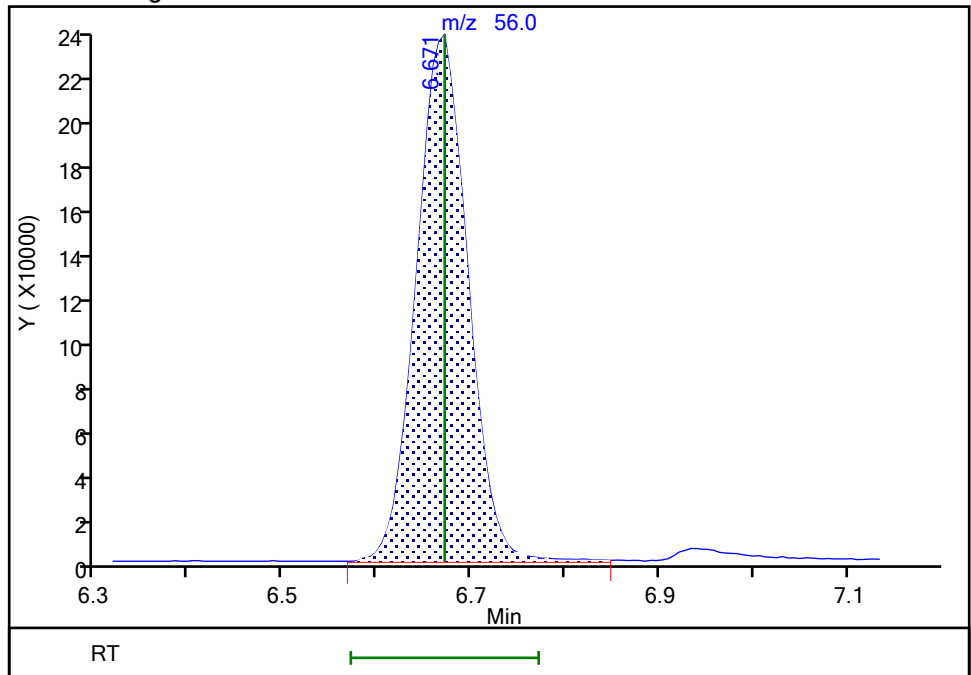
RT: 6.86  
Area: 891  
Amount: 3.740536  
Amount Units: ug/l

Processing Integration Results



RT: 6.67  
Area: 898646  
Amount: 10.635447  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:38:58 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration



Eurofins Lancaster Laboratories Environment Testing, LLC

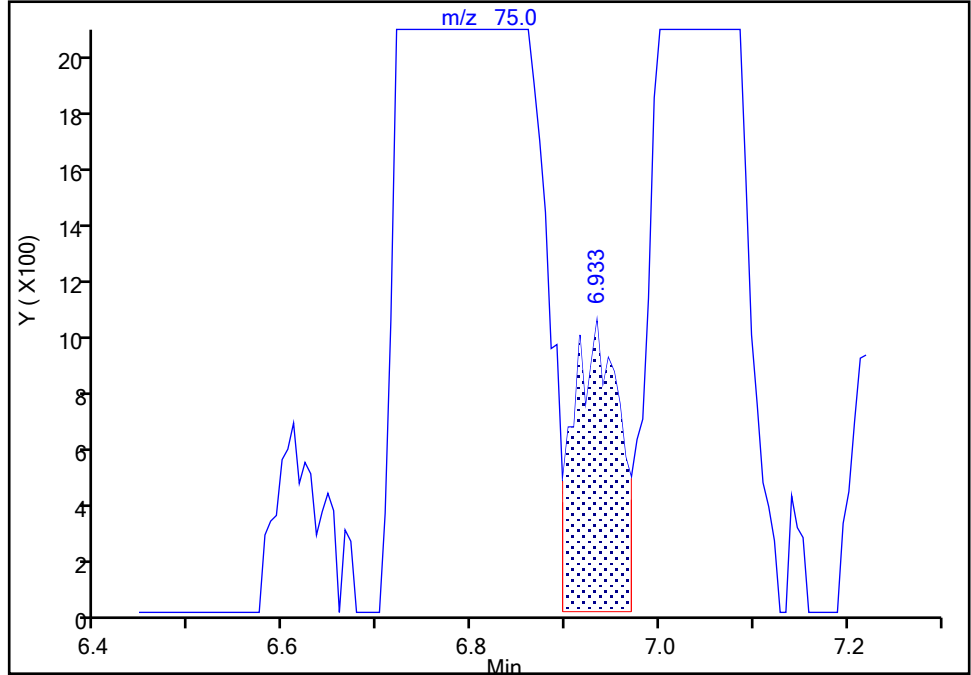
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

53 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

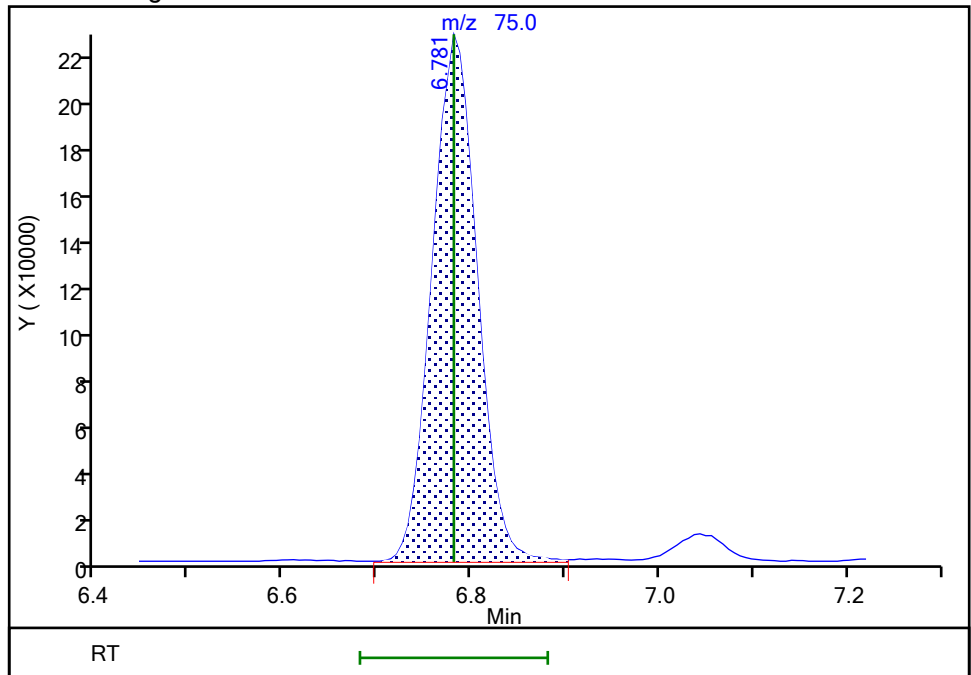
RT: 6.93  
Area: 3538  
Amount: 10.000000  
Amount Units: ug/l

Processing Integration Results



RT: 6.78  
Area: 738645  
Amount: 10.404574  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:39:13 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

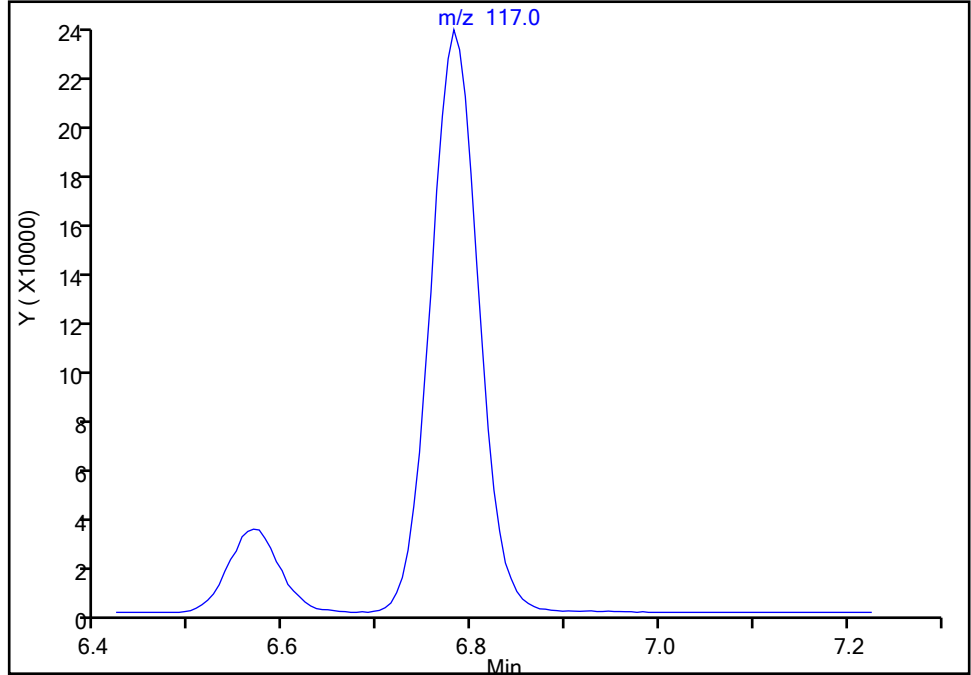
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

54 Carbon tetrachloride, CAS: 56-23-5

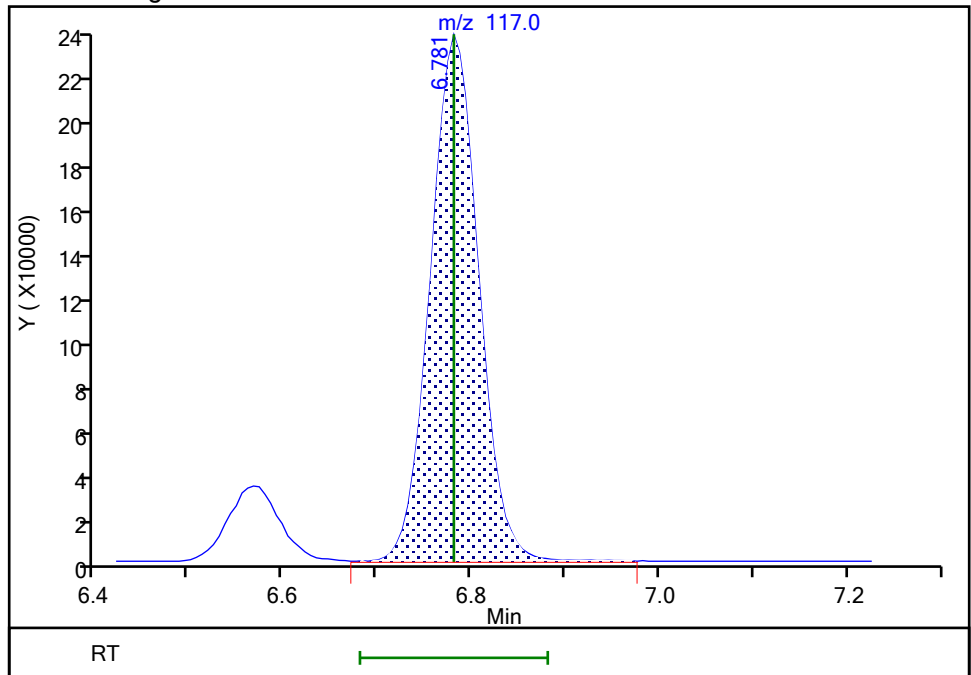
Signal: 1

Not Detected  
Expected RT: 6.78

Processing Integration Results



Manual Integration Results



RT: 6.78  
Area: 847817  
Amount: 10.672723  
Amount Units: ug/l

Reviewer: DVW2, 21-Jun-2023 07:39:10 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

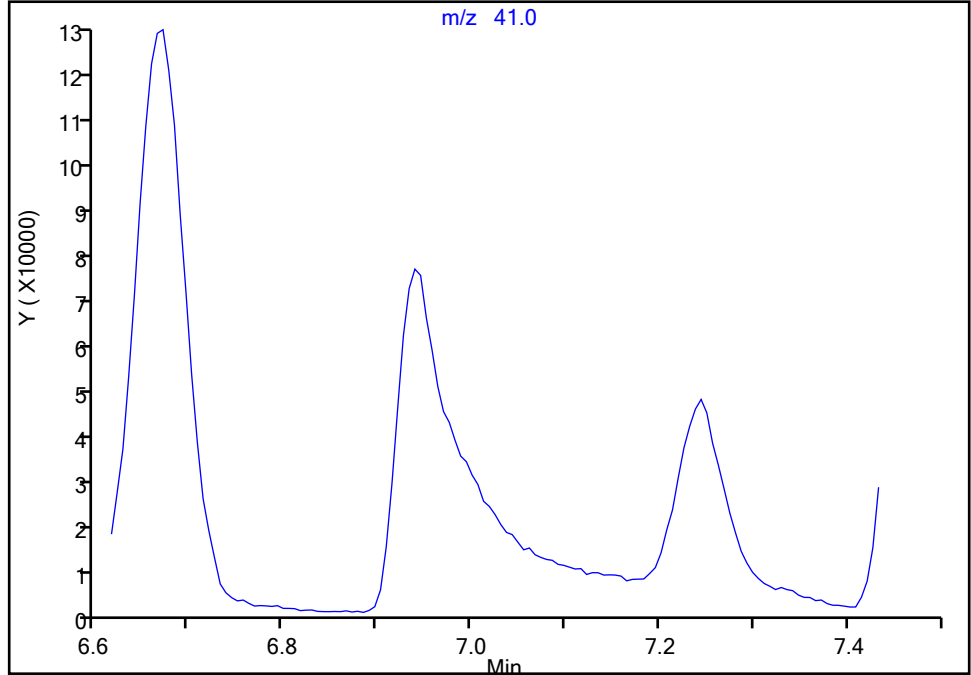
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

55 Isobutyl alcohol, CAS: 78-83-1

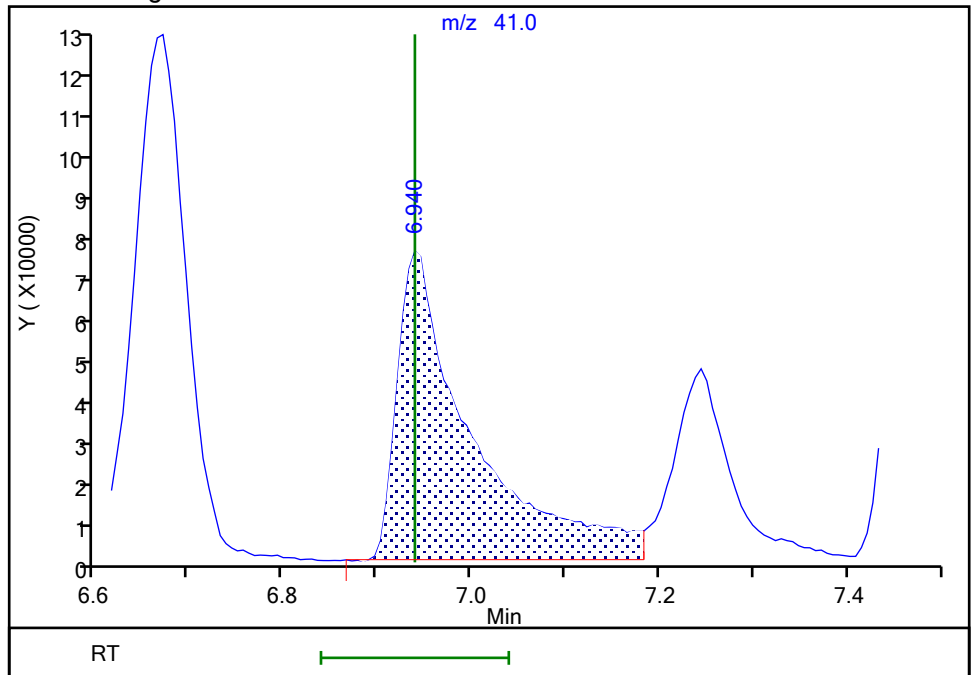
Signal: 1

Not Detected  
Expected RT: 6.94

Processing Integration Results



Manual Integration Results



RT: 6.94  
Area: 408183  
Amount: 461.7817  
Amount Units: ug/l

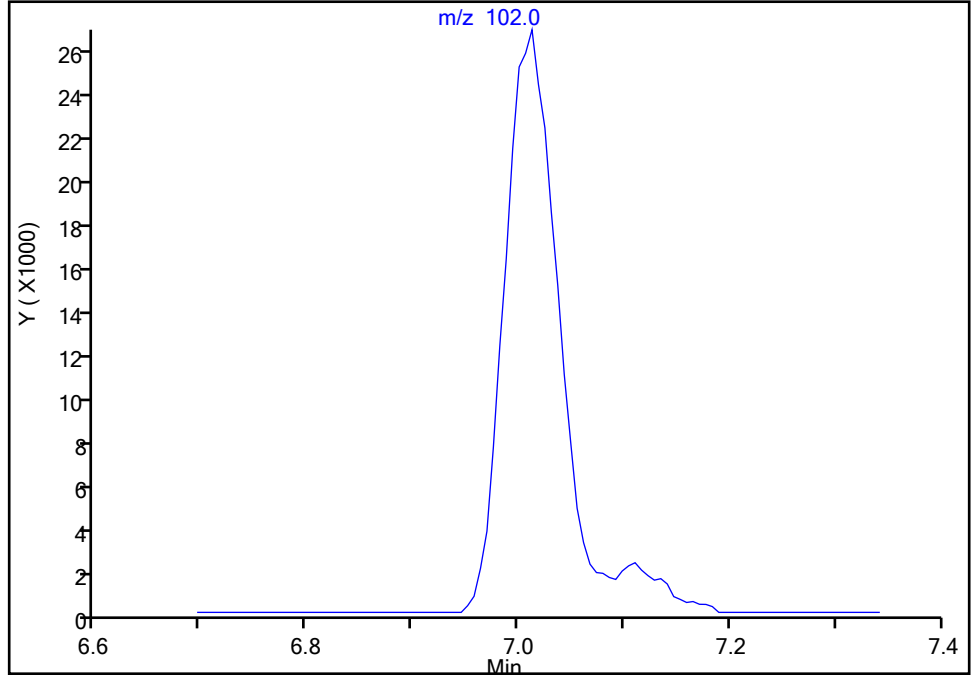
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X17.D  
Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 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

**\$ 56 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0**  
Signal: 1

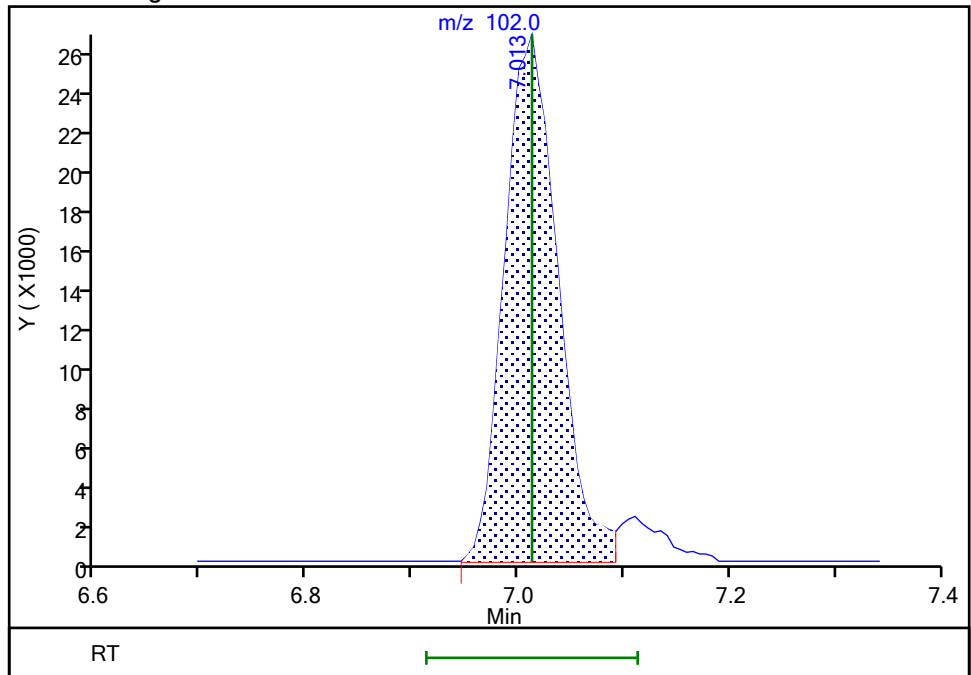
Not Detected  
Expected RT: 7.01

Processing Integration Results



RT: 7.01  
Area: 91929  
Amount: 9.985461  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:35:23 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

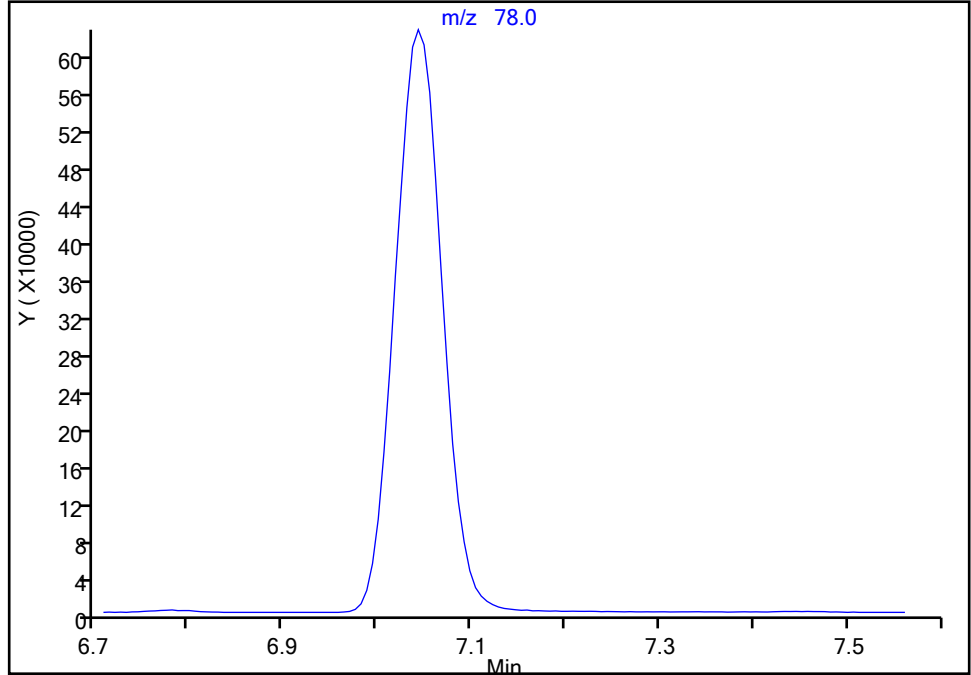
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

57 Benzene, CAS: 71-43-2

Signal: 1

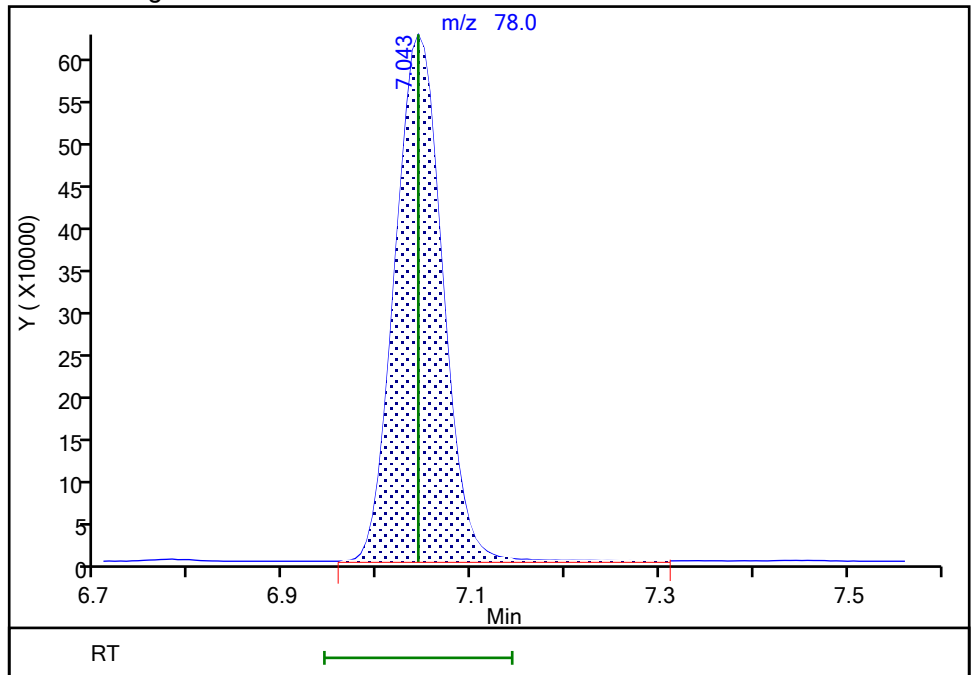
Not Detected  
Expected RT: 7.04

Processing Integration Results



Manual Integration Results

RT: 7.04  
Area: 2192041  
Amount: 10.269895  
Amount Units: ug/l



Reviewer: DVW2, 21-Jun-2023 07:39:23 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

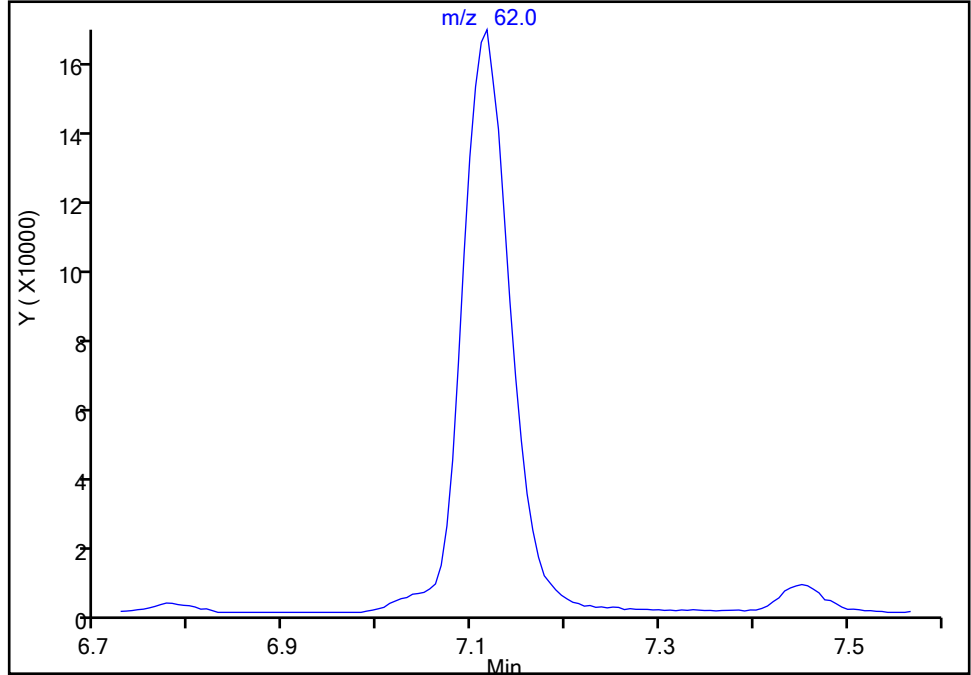
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Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

58 1,2-Dichloroethane, CAS: 107-06-2

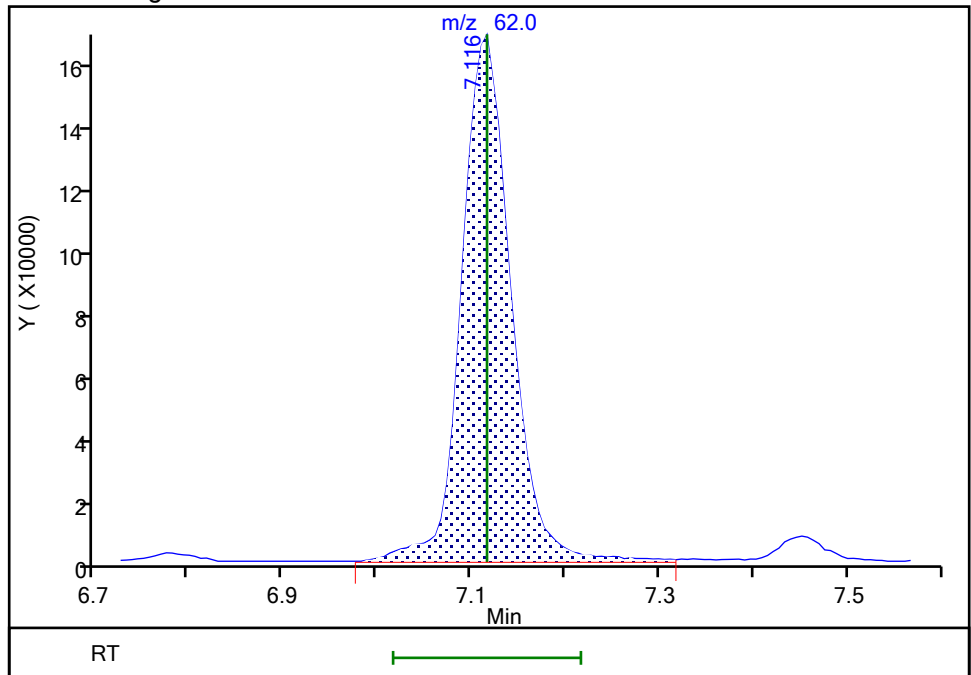
Signal: 1

Not Detected  
Expected RT: 7.12

Processing Integration Results



Manual Integration Results



RT: 7.12  
Area: 589464  
Amount: 10.187085  
Amount Units: ug/l

Reviewer: DVW2, 21-Jun-2023 07:39:26 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

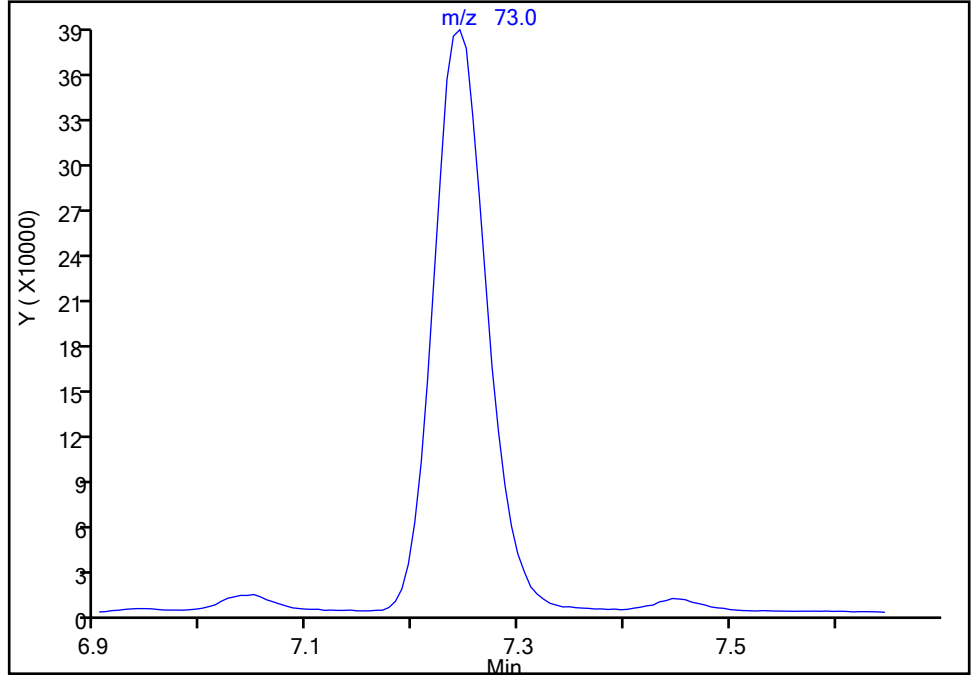
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

60 Tert-amyl methyl ether, CAS: 994-05-8

Signal: 1

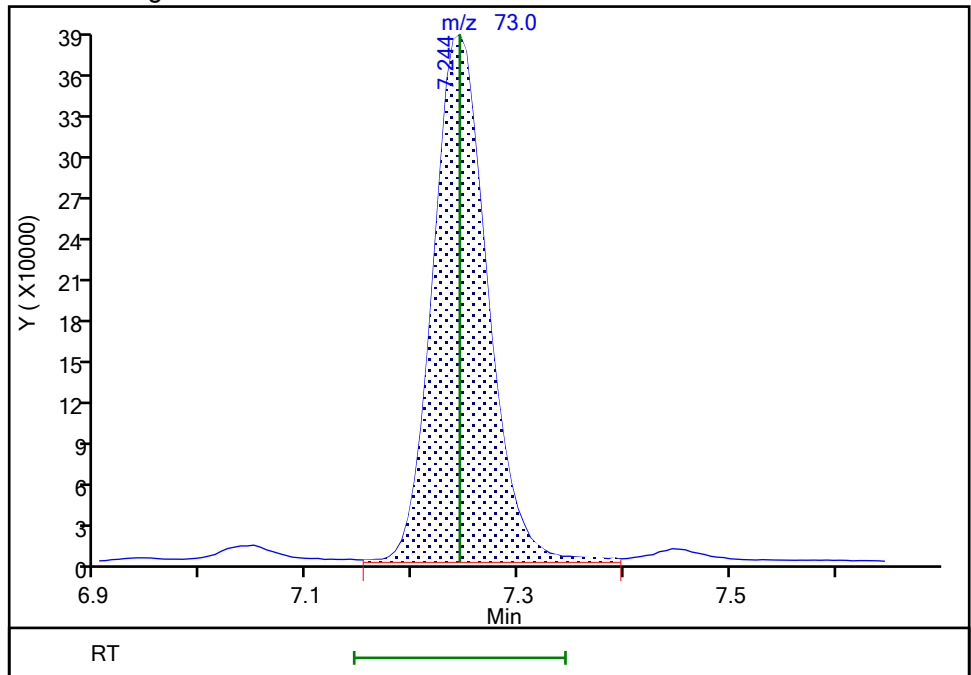
Not Detected  
Expected RT: 7.24

Processing Integration Results



Manual Integration Results

RT: 7.24  
Area: 1374850  
Amount: 10.259830  
Amount Units: ug/l



Reviewer: DVW2, 21-Jun-2023 07:39:29 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

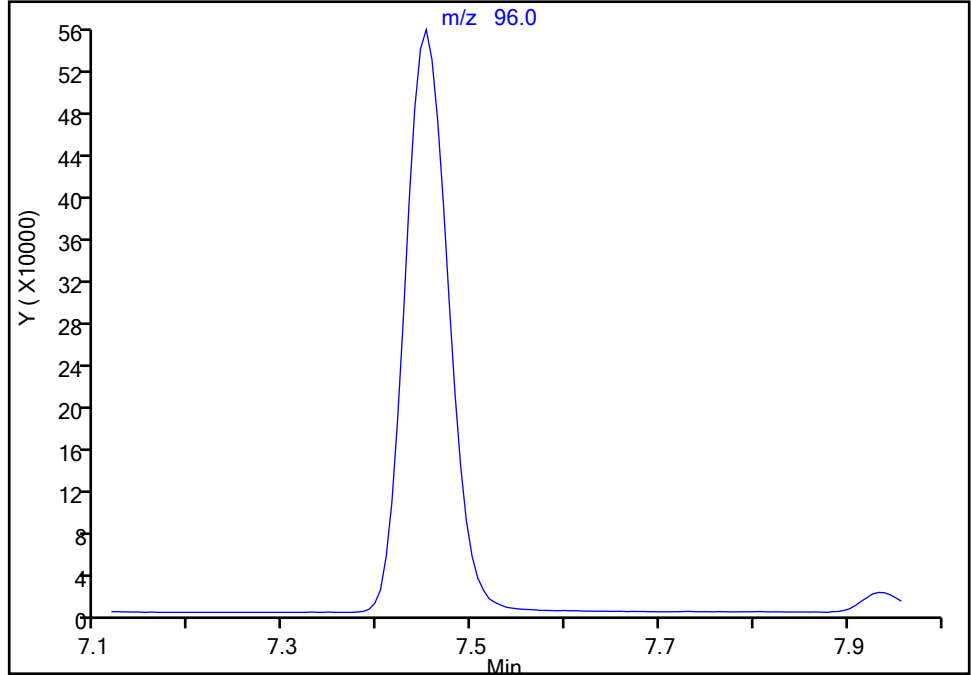
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

\* 61 Fluorobenzene (IS), CAS: 462-06-6

Signal: 1

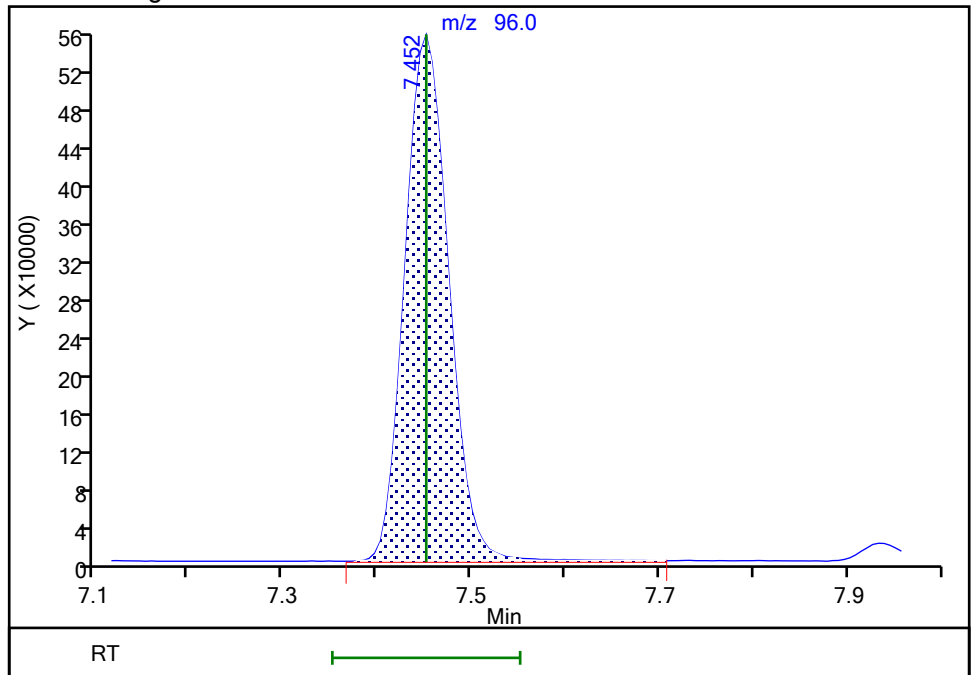
Not Detected  
Expected RT: 7.45

Processing Integration Results



RT: 7.45  
Area: 1807671  
Amount: 10.000000  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:35:11 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected



Eurofins Lancaster Laboratories Environment Testing, LLC

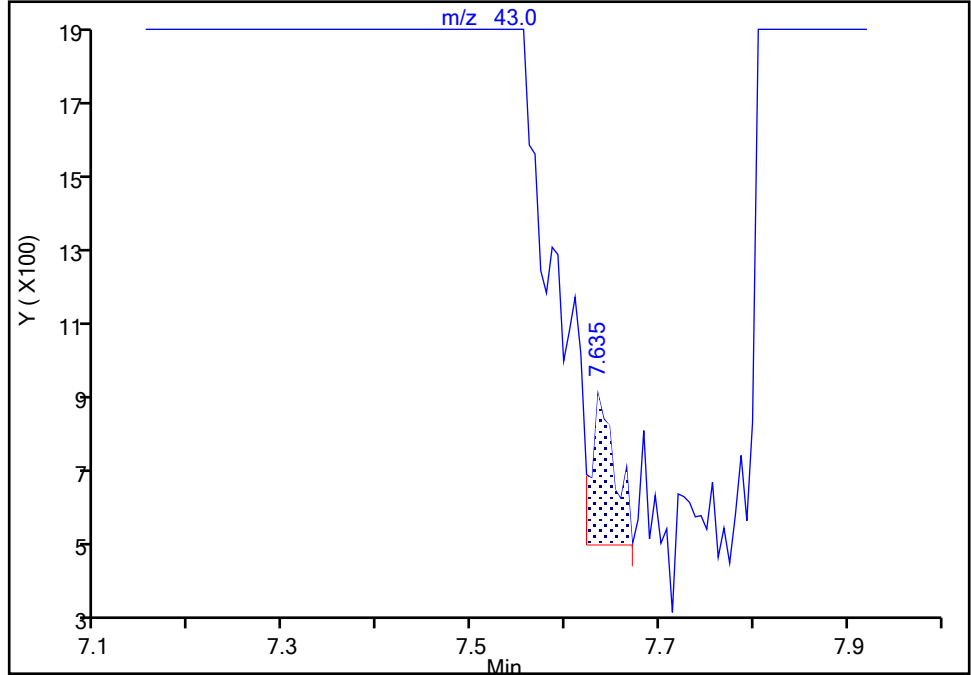
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

62 n-Heptane, CAS: 142-82-5

Signal: 1

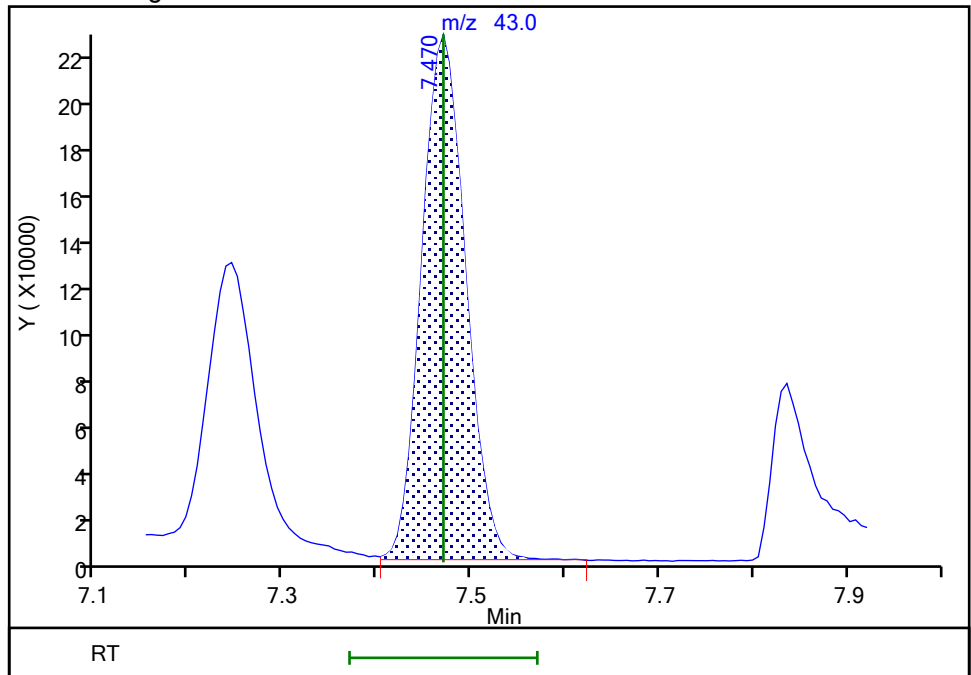
RT: 7.63  
Area: 669  
Amount: 0.002433  
Amount Units: ug/l

Processing Integration Results



RT: 7.47  
Area: 722856  
Amount: 10.644753  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:39:35 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

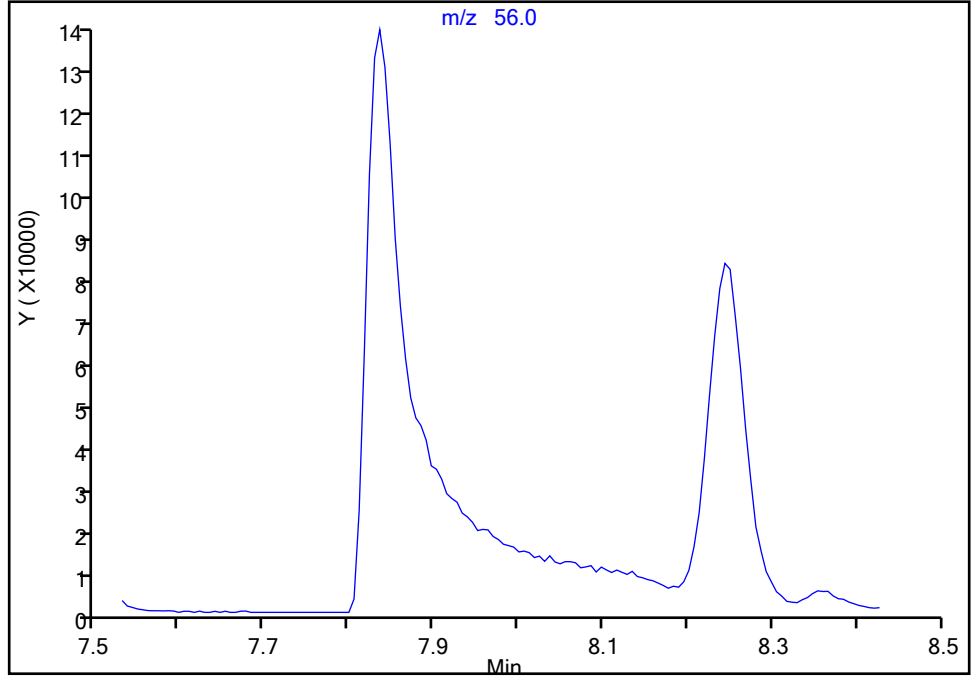
Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X17.D  
Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

63 n-Butanol, CAS: 71-36-3

Signal: 1

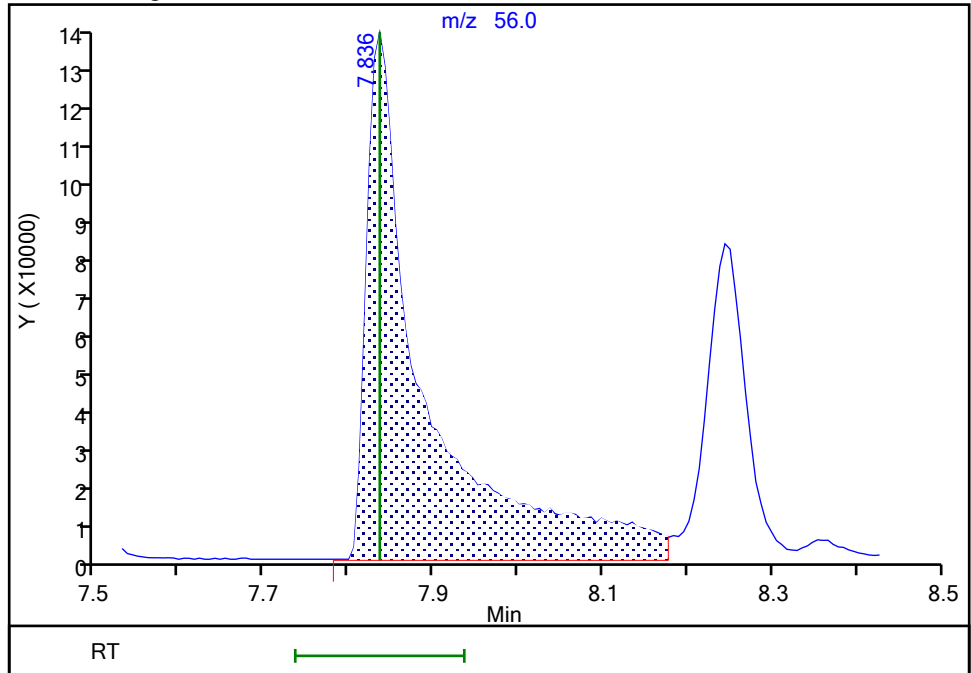
Not Detected  
Expected RT: 7.84

Processing Integration Results



RT: 7.84  
Area: 662655  
Amount: 976.0012  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:39:38 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

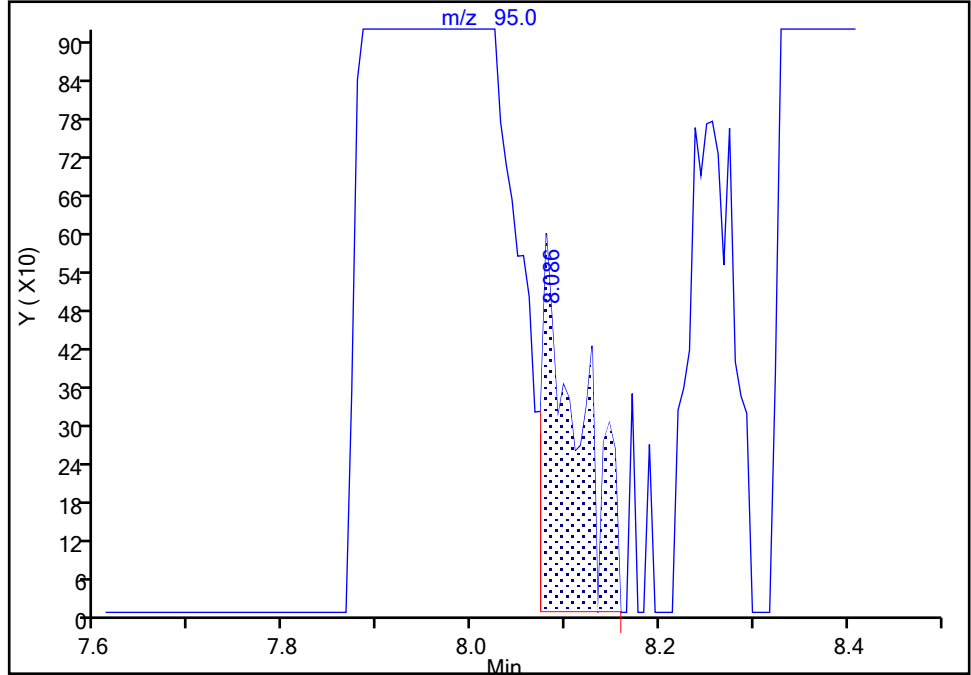
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

64 Trichloroethene, CAS: 79-01-6

Signal: 1

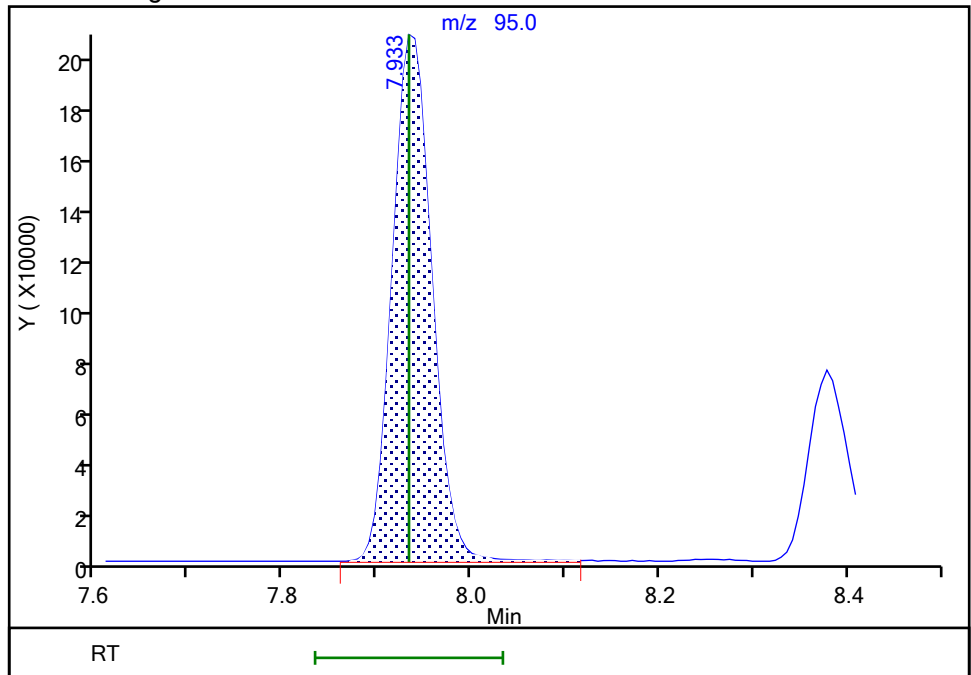
RT: 8.09  
Area: 1628  
Amount: 10.000000  
Amount Units: ug/l

Processing Integration Results



RT: 7.93  
Area: 615027  
Amount: 10.357052  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:39:44 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

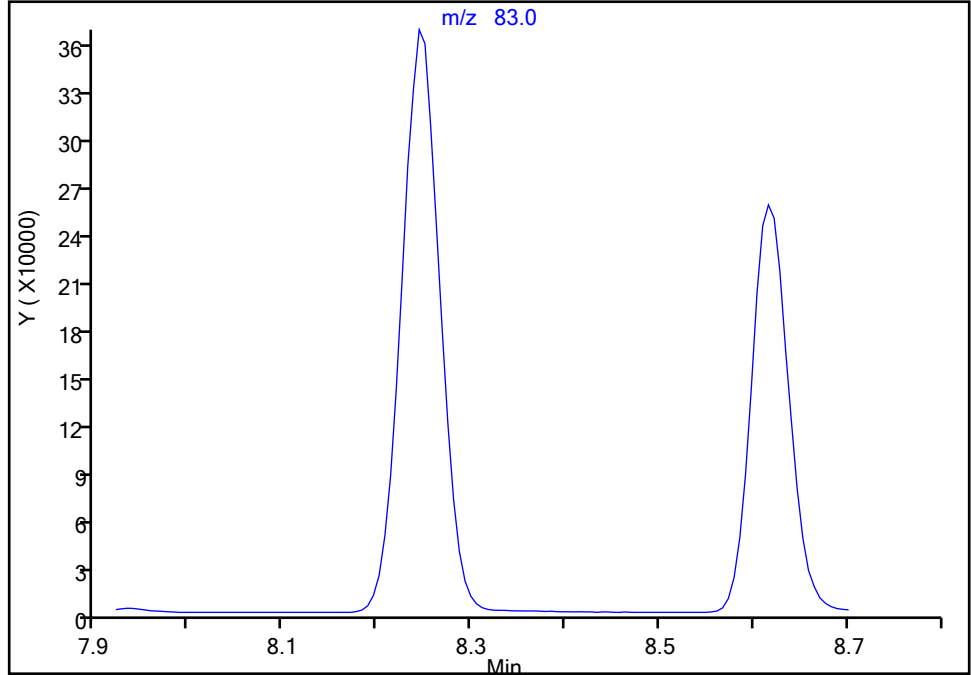
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

65 Methylcyclohexane, CAS: 108-87-2

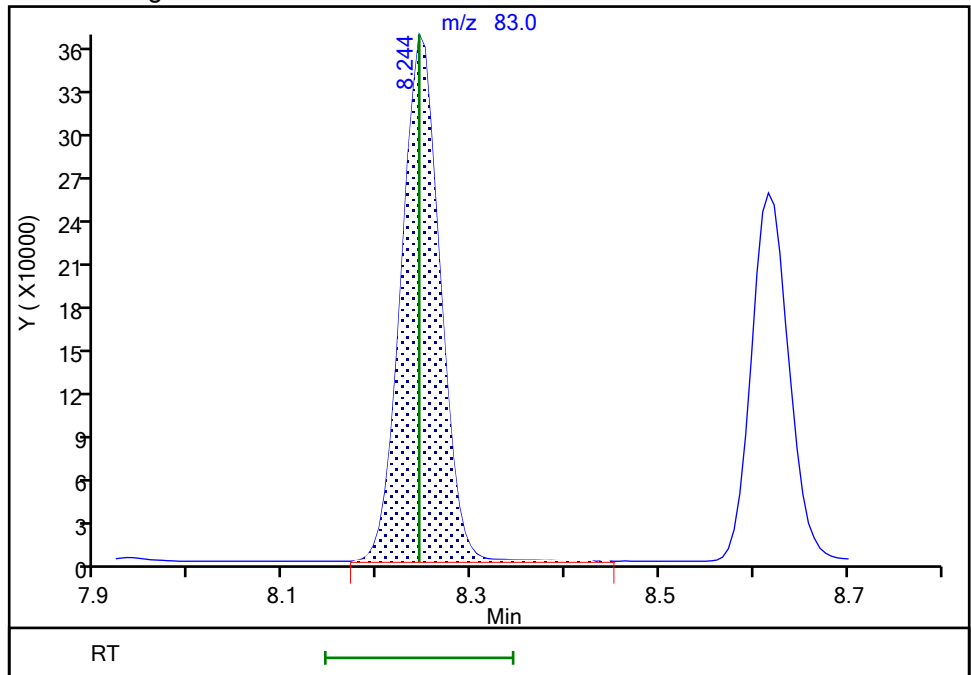
Signal: 1

Not Detected  
Expected RT: 8.24

Processing Integration Results



Manual Integration Results



RT: 8.24  
Area: 1036558  
Amount: 10.806063  
Amount Units: ug/l

Reviewer: DVW2, 21-Jun-2023 07:39:47 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

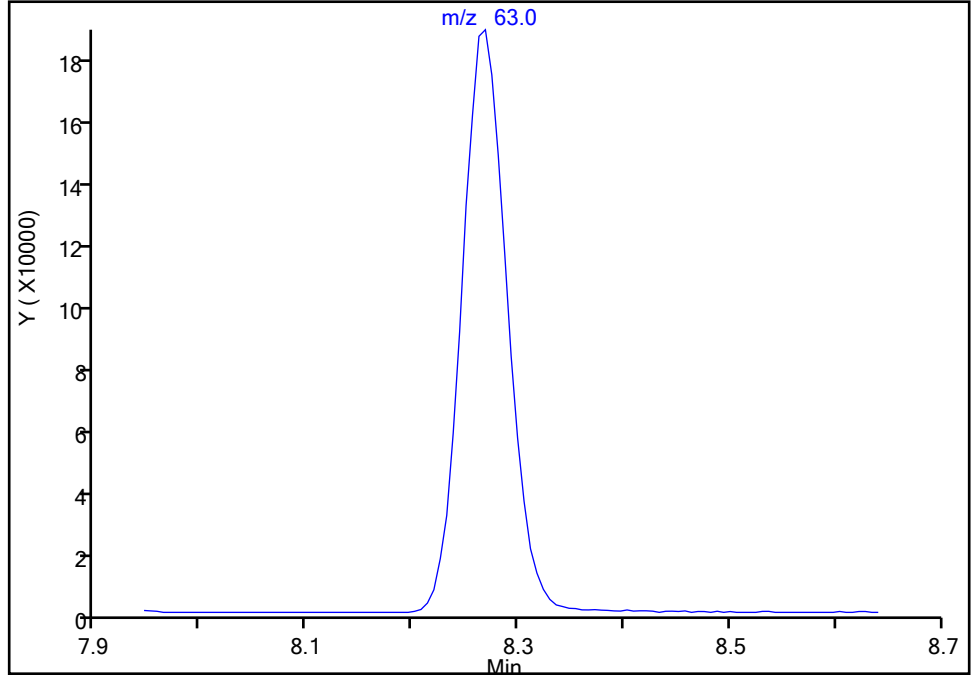
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

66 1,2-Dichloropropane, CAS: 78-87-5

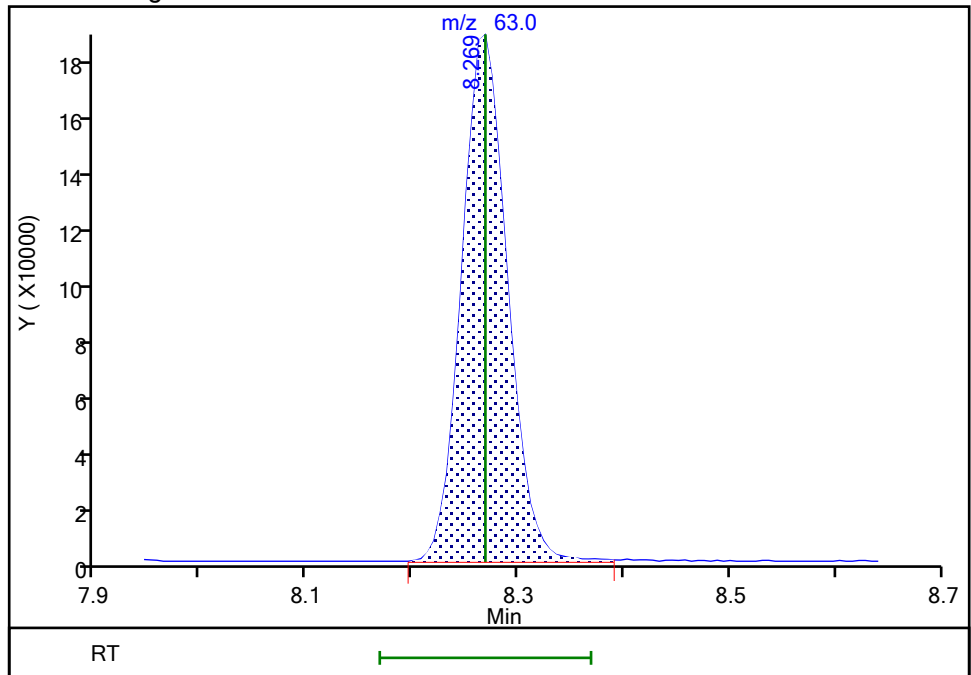
Signal: 1

Not Detected  
Expected RT: 8.27

Processing Integration Results



Manual Integration Results



RT: 8.27  
Area: 544394  
Amount: 10.315438  
Amount Units: ug/l

Reviewer: DVW2, 21-Jun-2023 07:39:50 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

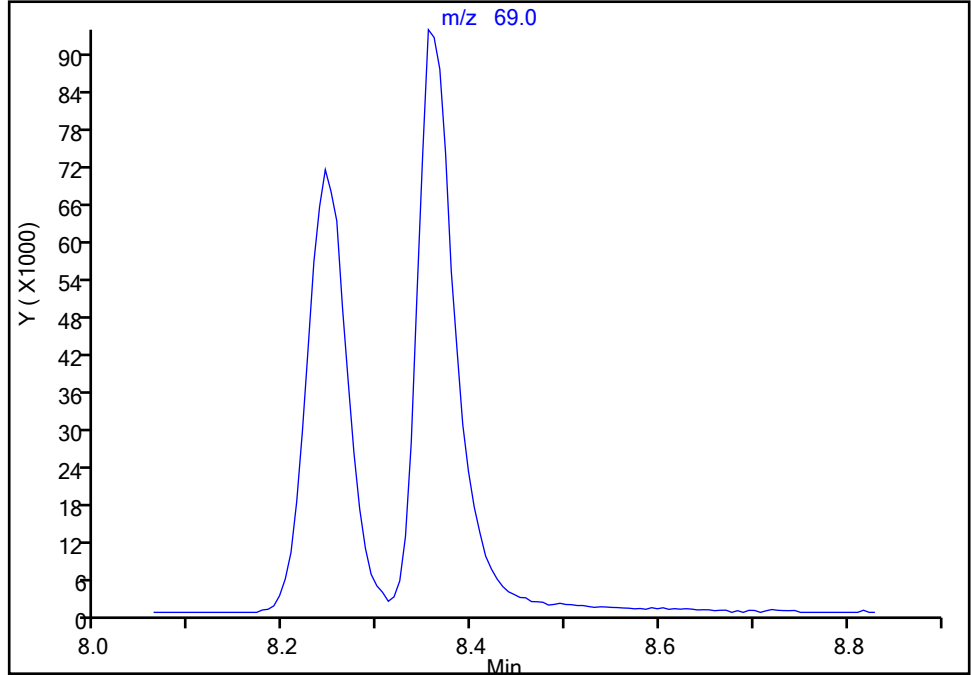
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

67 Methyl methacrylate, CAS: 80-62-6

Signal: 1

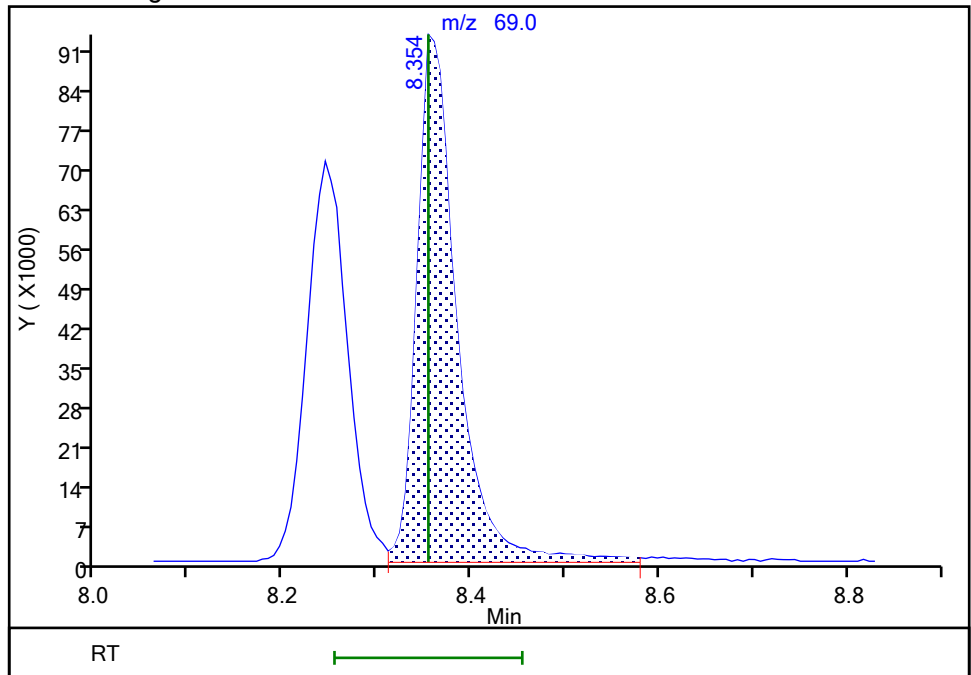
Not Detected  
Expected RT: 8.35

Processing Integration Results



RT: 8.35  
Area: 276225  
Amount: 11.142318  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:39:54 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

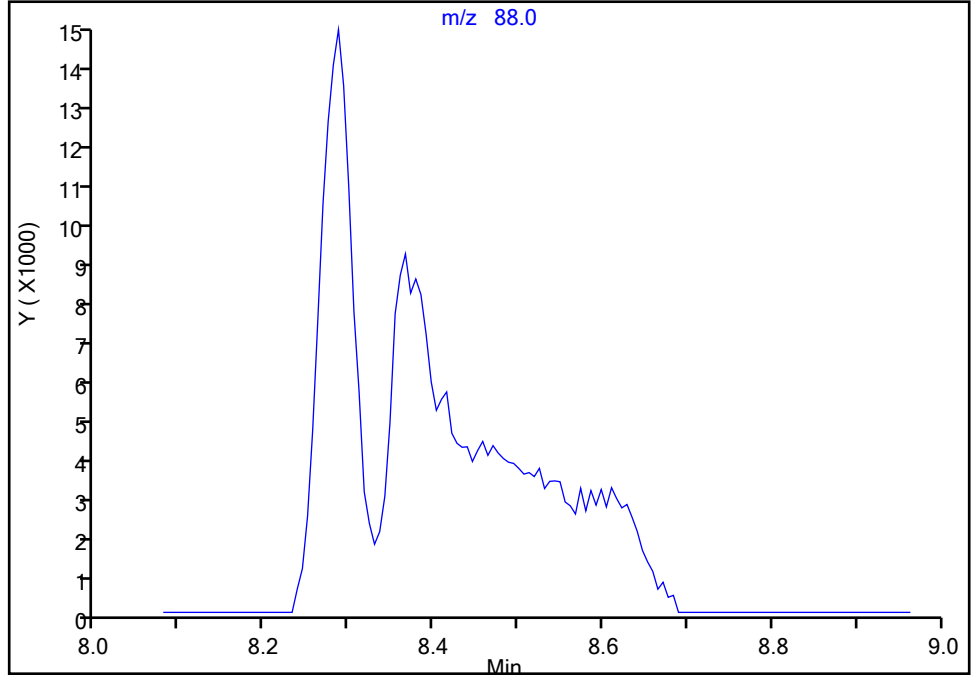
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

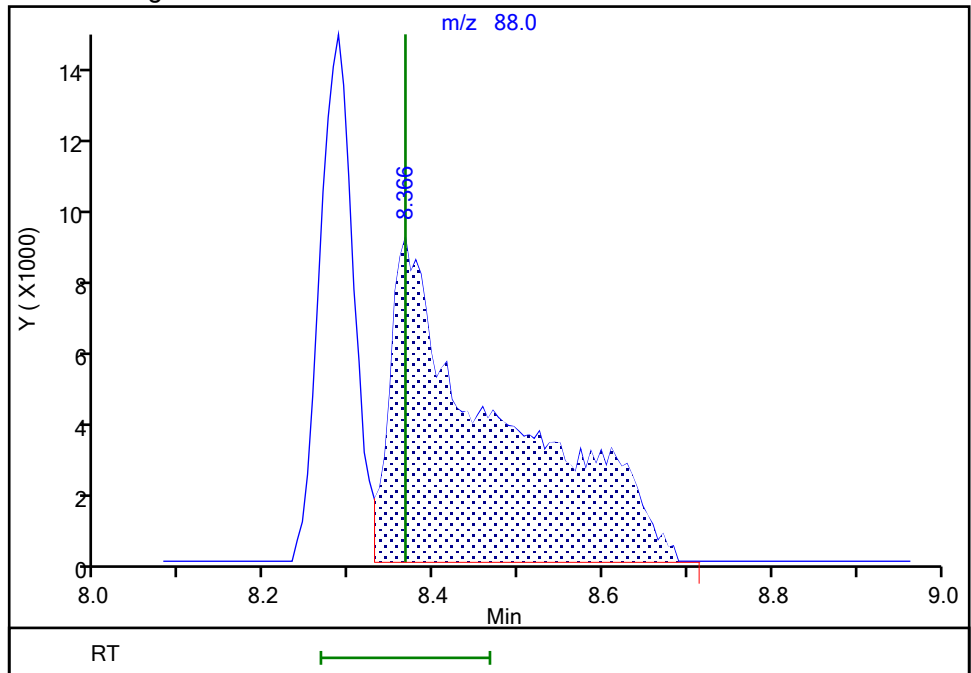
Not Detected  
Expected RT: 8.37

Processing Integration Results



RT: 8.37  
Area: 79624  
Amount: 552.1655  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:40:07 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

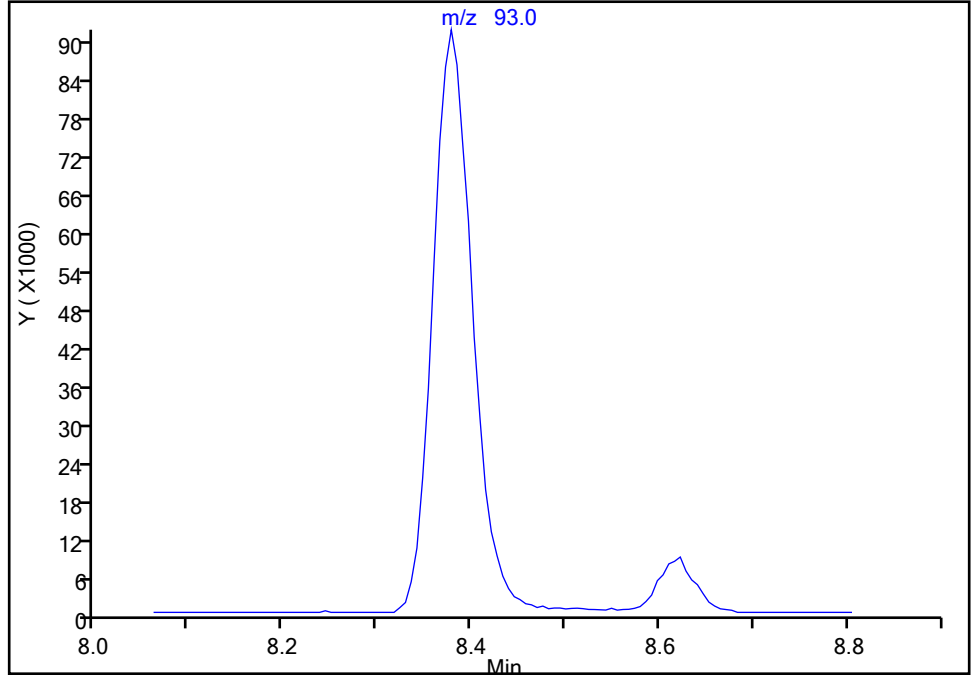
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

69 Dibromomethane, CAS: 74-95-3

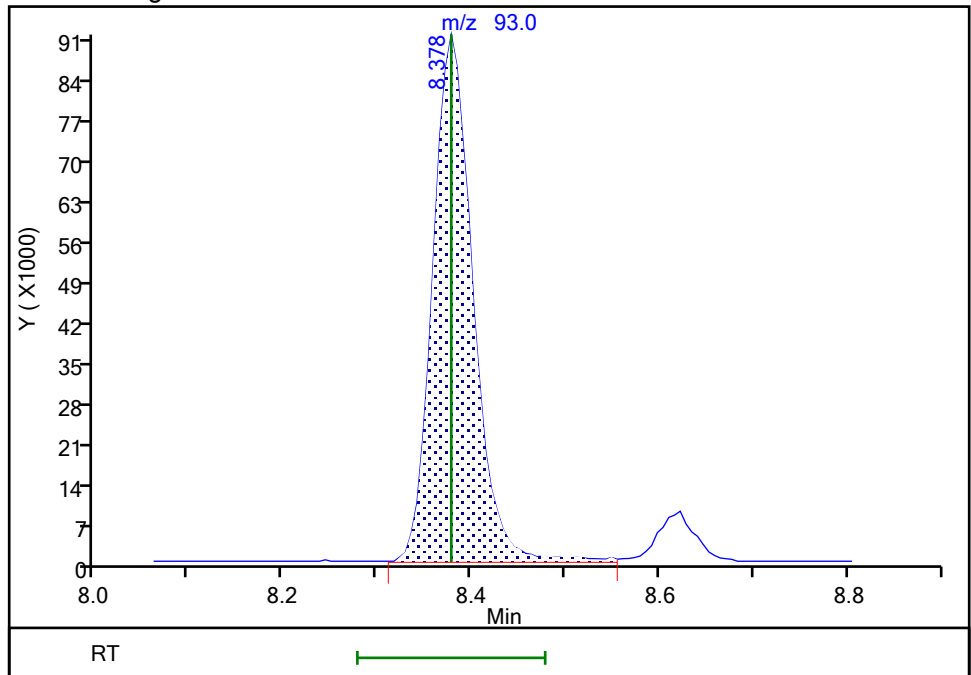
Signal: 1

Not Detected  
Expected RT: 8.38

Processing Integration Results



Manual Integration Results



RT: 8.38  
Area: 271761  
Amount: 10.273229  
Amount Units: ug/l

Reviewer: DVW2, 21-Jun-2023 07:40:10 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration



Eurofins Lancaster Laboratories Environment Testing, LLC

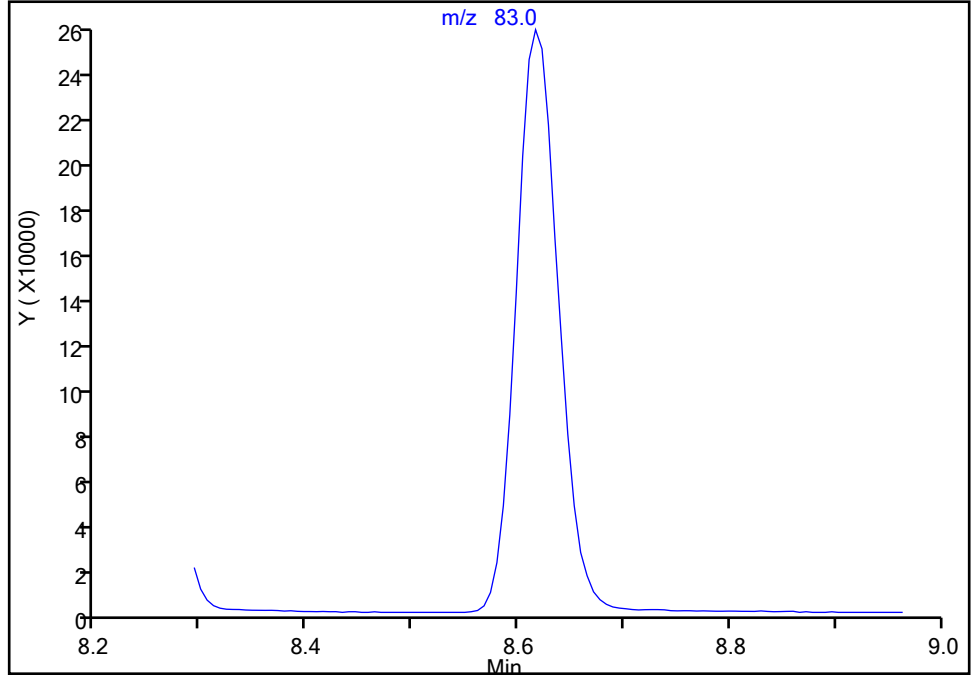
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

71 Dichlorobromomethane, CAS: 75-27-4

Signal: 1

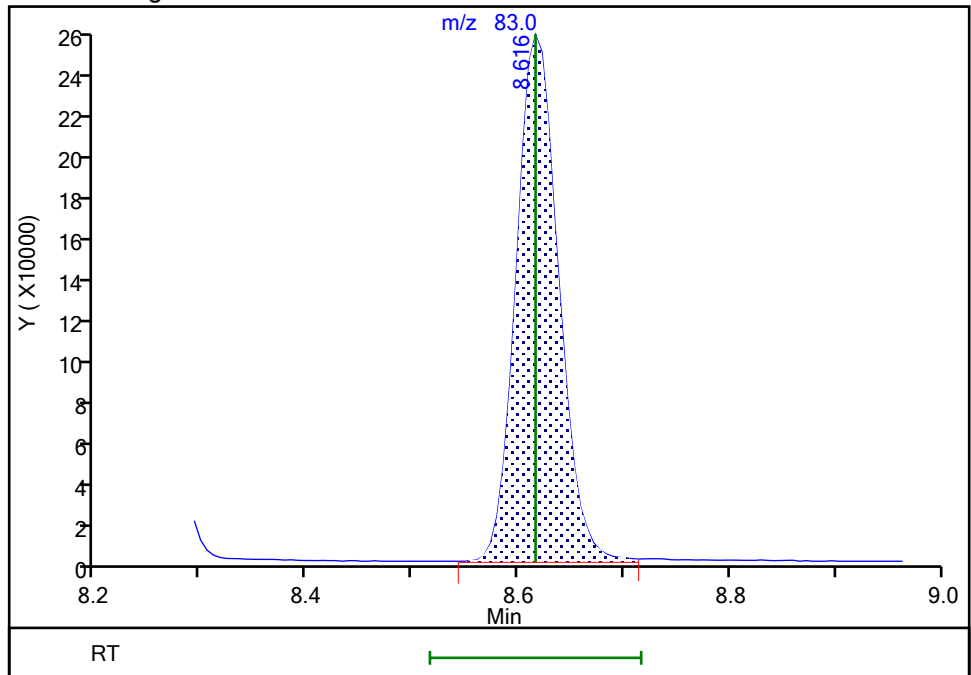
Not Detected  
Expected RT: 8.62

Processing Integration Results



Manual Integration Results

RT: 8.62  
Area: 705073  
Amount: 10.279195  
Amount Units: ug/l



Reviewer: DVW2, 21-Jun-2023 07:40:13 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

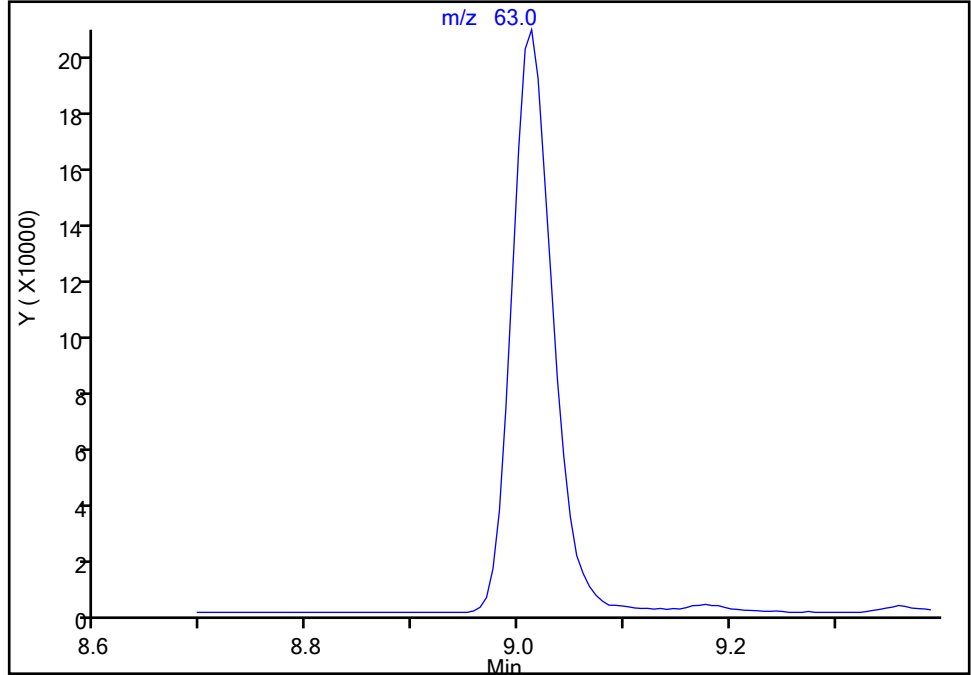
Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X17.D  
Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

75 1-Bromo-2-chloroethane, CAS: 107-04-0

Signal: 1

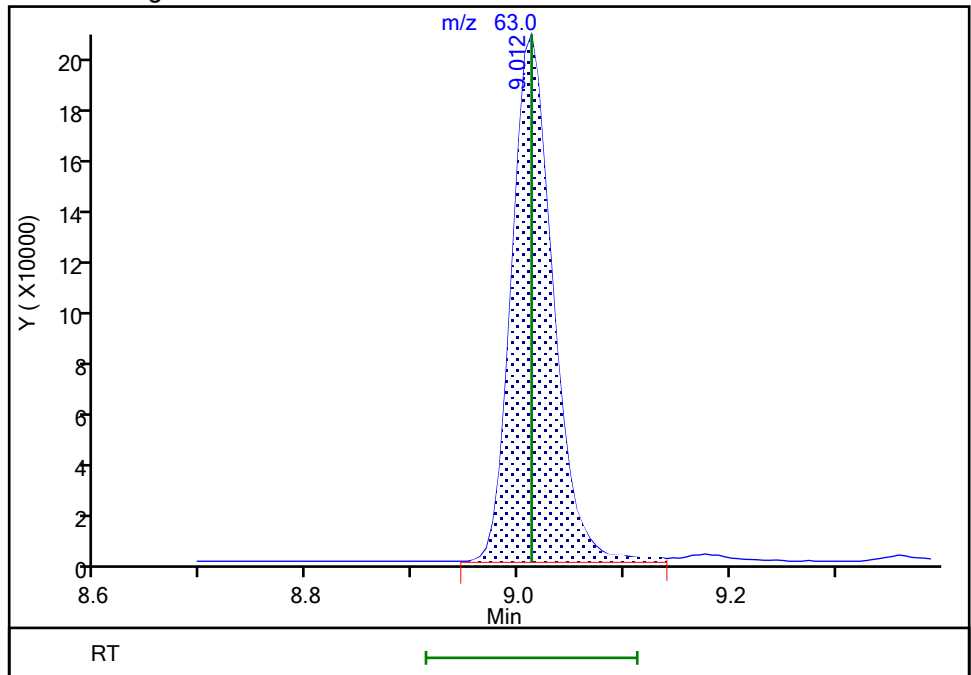
Not Detected  
Expected RT: 9.01

Processing Integration Results



Manual Integration Results

RT: 9.01  
Area: 557990  
Amount: 10.370445  
Amount Units: ug/l



Reviewer: DVW2, 21-Jun-2023 07:40:17 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

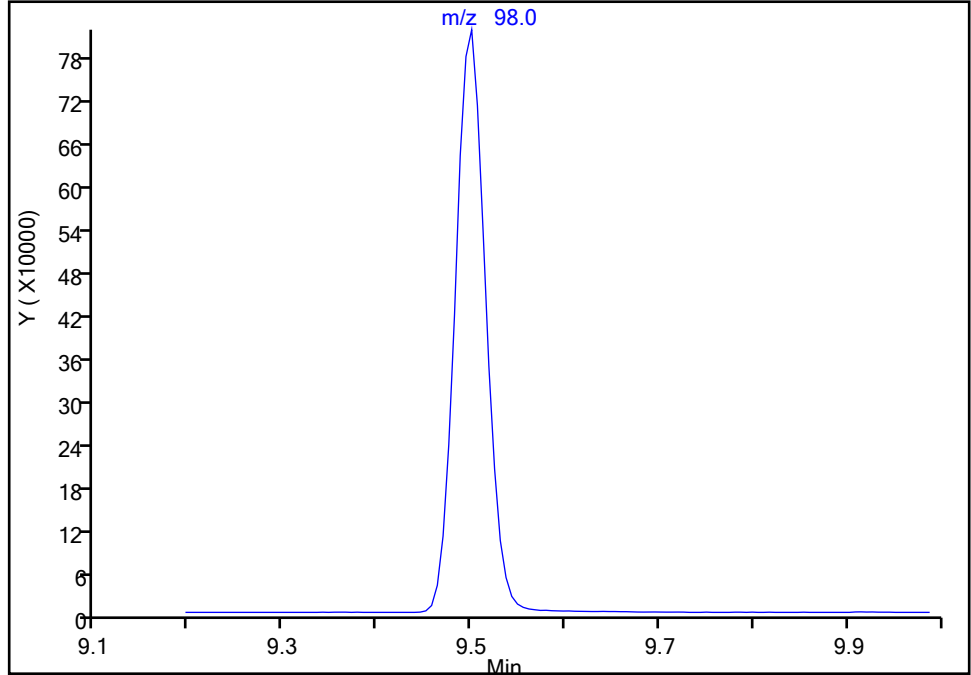
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

**\$ 78 Toluene-d8 (Surr), CAS: 2037-26-5**

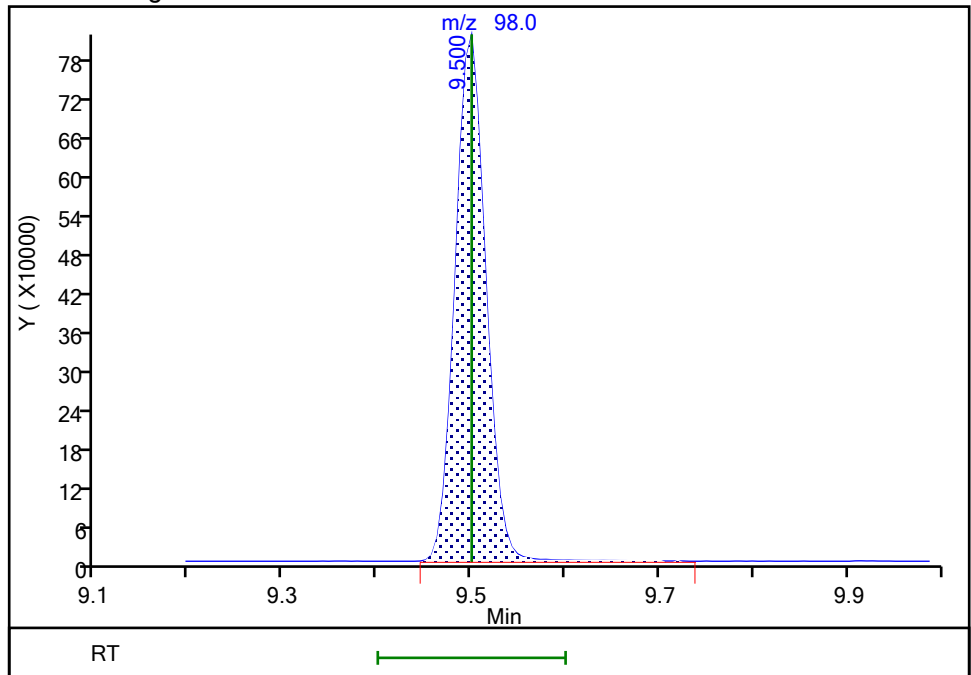
Signal: 1

Not Detected  
Expected RT: 9.50

Processing Integration Results



Manual Integration Results



RT: 9.50  
Area: 1851132  
Amount: 9.999085  
Amount Units: ug/l

Reviewer: DVW2, 21-Jun-2023 07:35:47 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

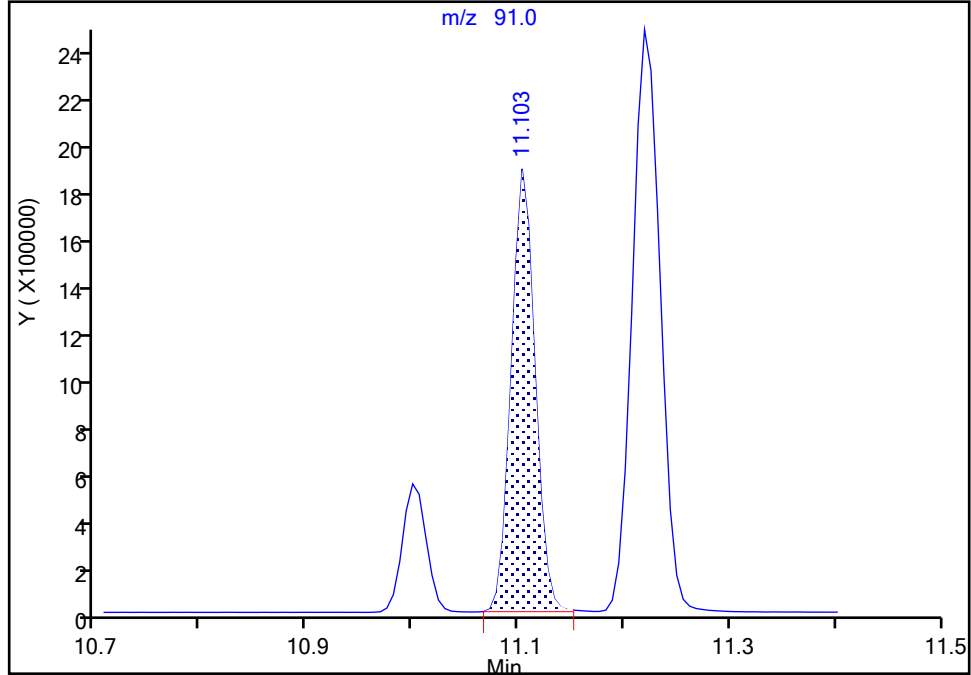
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

108 1-Chlorohexane, CAS: 544-10-5

Signal: 1

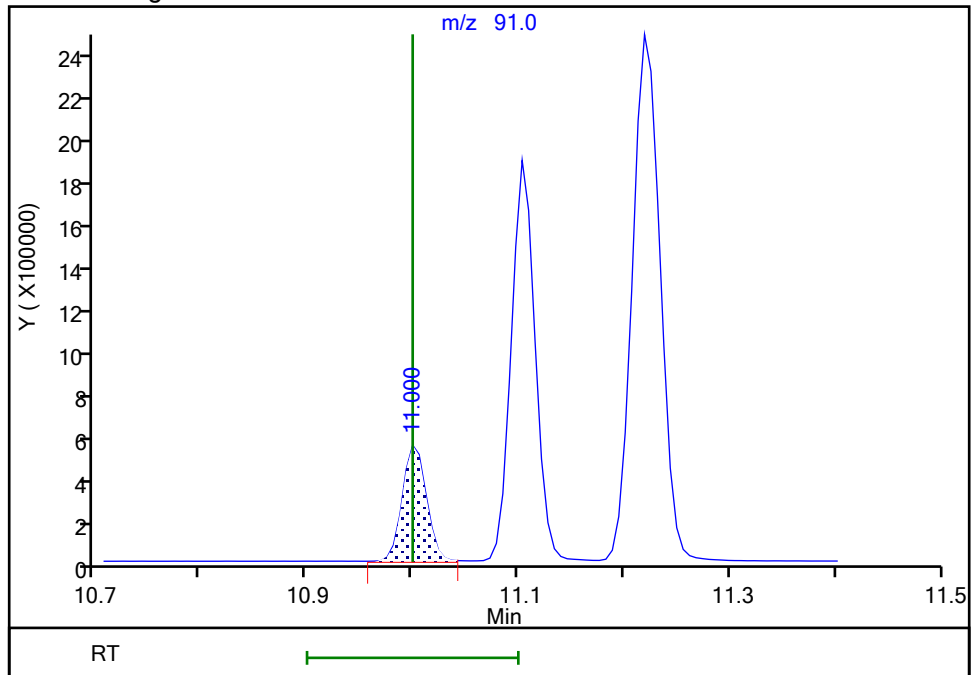
RT: 11.10  
Area: 2916569  
Amount: 20.386606  
Amount Units: ug/l

Processing Integration Results



RT: 11.00  
Area: 850962  
Amount: 10.012819  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 22-Jun-2023 07:48:21 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

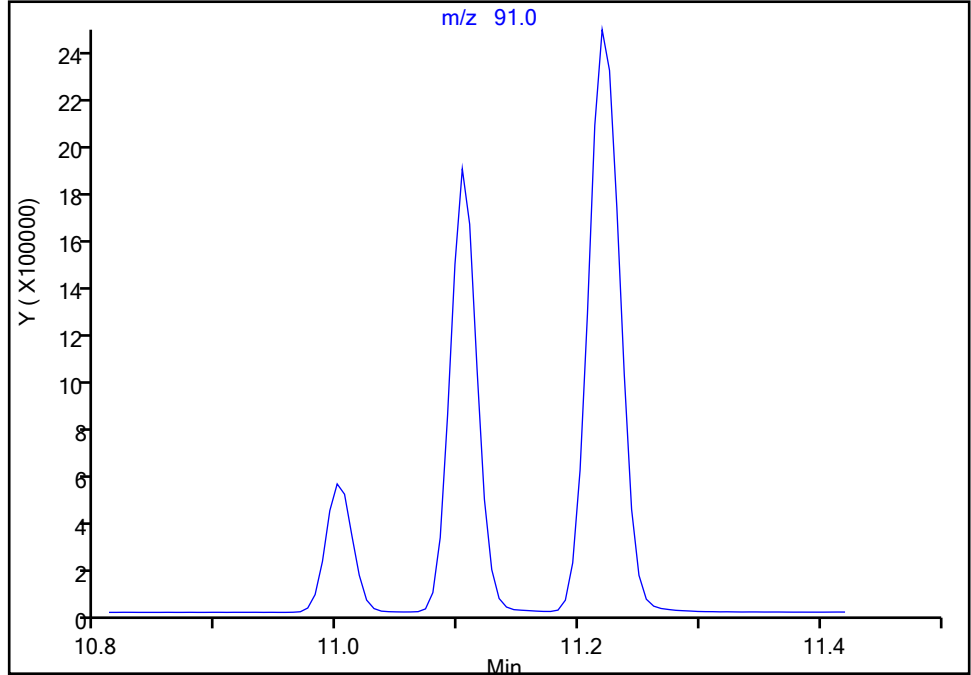
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

112 Ethylbenzene, CAS: 100-41-4

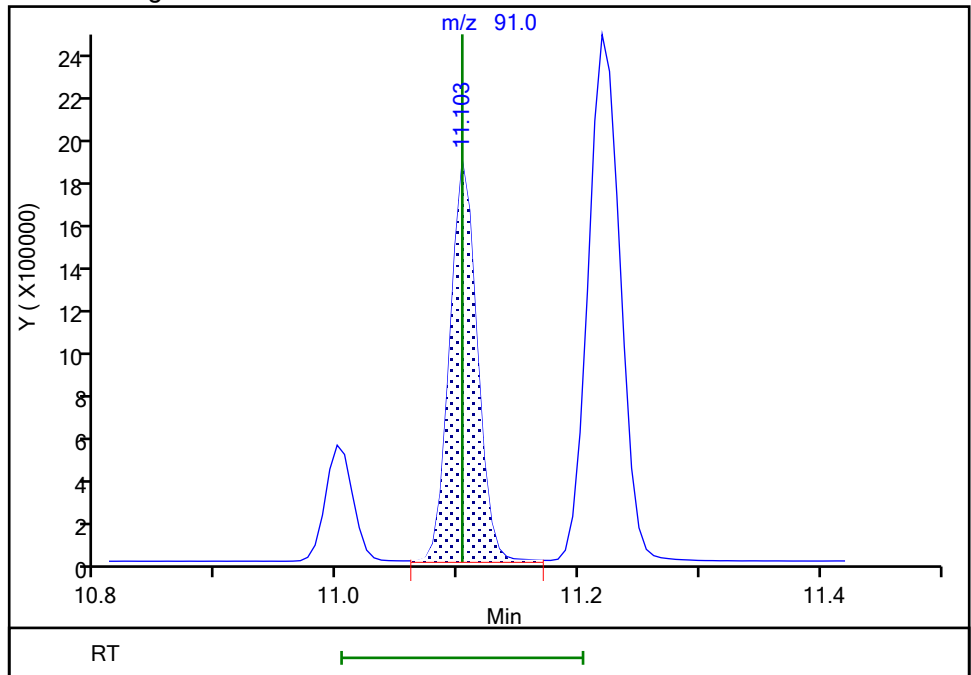
Signal: 1

Not Detected  
Expected RT: 11.10

Processing Integration Results



Manual Integration Results



RT: 11.10  
Area: 2922252  
Amount: 10.268049  
Amount Units: ug/l

Reviewer: DVW2, 21-Jun-2023 15:39:03 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

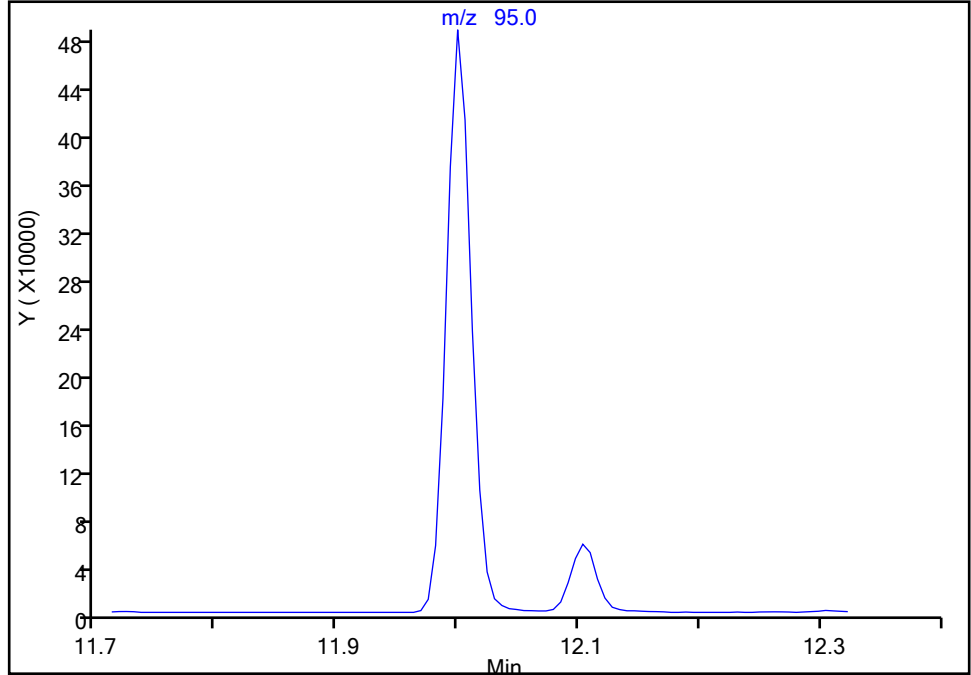
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\U19X17.D  
Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 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

**\$ 120 4-Bromofluorobenzene (Surr), CAS: 460-00-4**  
Signal: 1

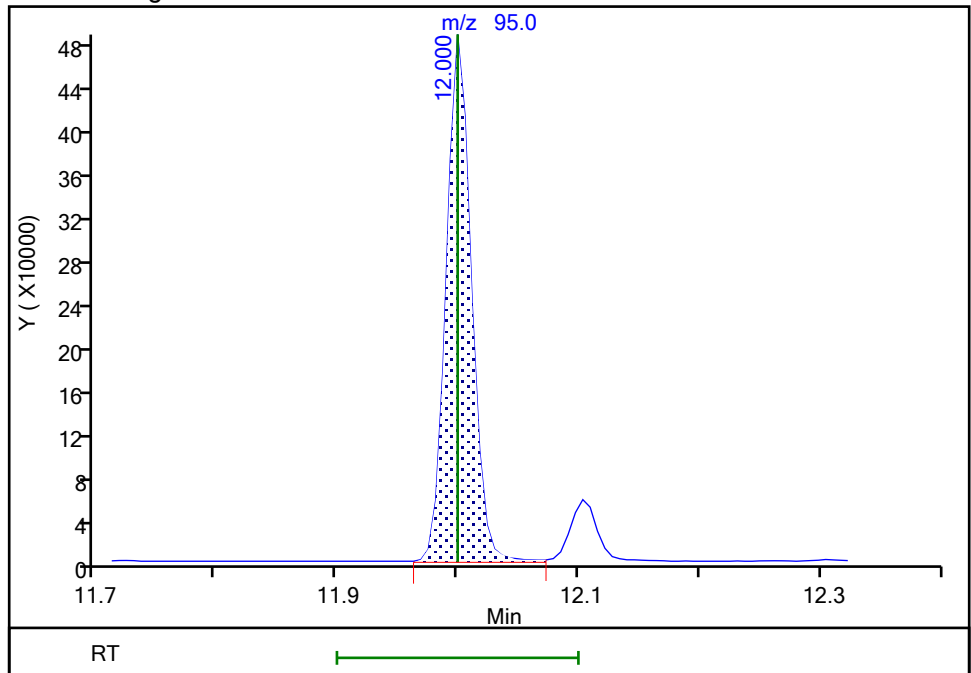
Not Detected  
Expected RT: 12.00

Processing Integration Results



Manual Integration Results

RT: 12.00  
Area: 698444  
Amount: 10.012160  
Amount Units: ug/l



Reviewer: DVW2, 21-Jun-2023 07:35:56 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

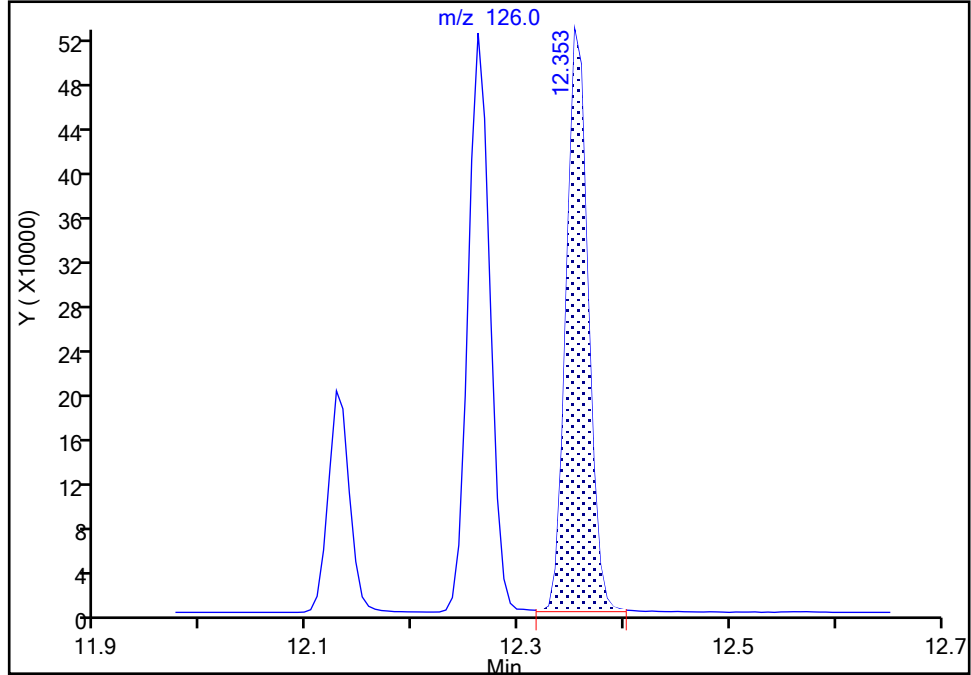
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

126 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

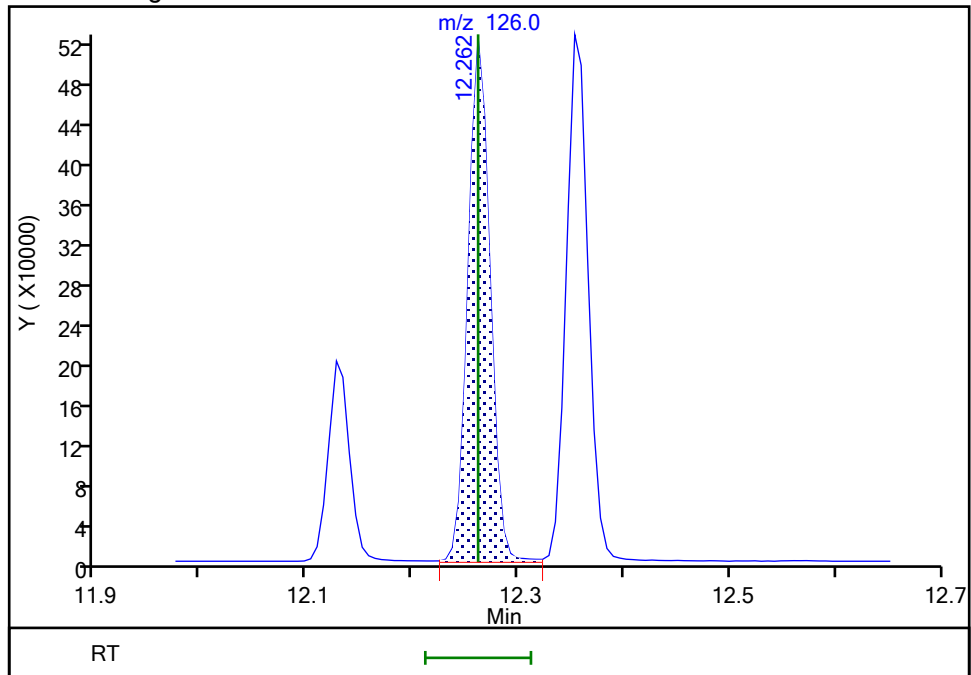
RT: 12.35  
Area: 763900  
Amount: 10.352973  
Amount Units: ug/l

Processing Integration Results



RT: 12.26  
Area: 760985  
Amount: 10.345897  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 15:39:09 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

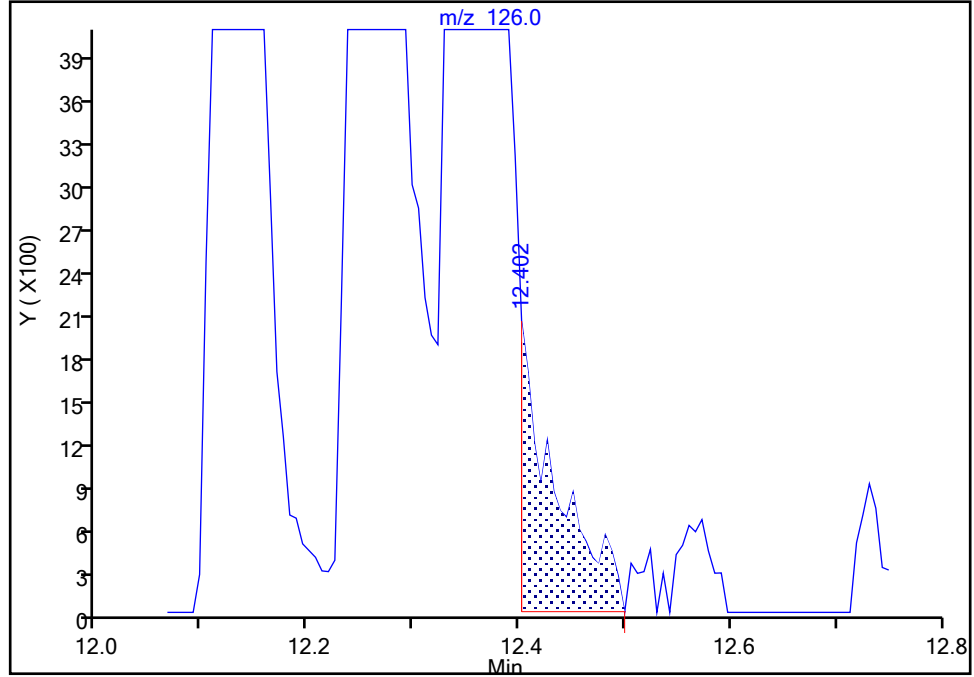
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Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

128 4-Chlorotoluene, CAS: 106-43-4

Signal: 1

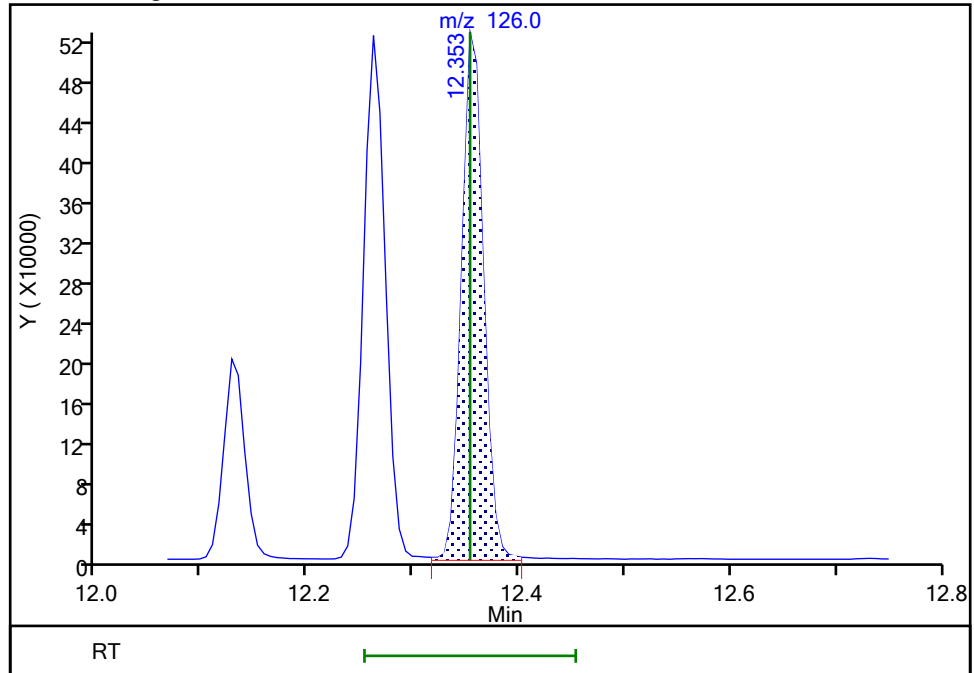
RT: 12.40  
Area: 4753  
Amount: 0.088167  
Amount Units: ug/l

Processing Integration Results



RT: 12.35  
Area: 763897  
Amount: 10.136216  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:40:51 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration



Eurofins Lancaster Laboratories Environment Testing, LLC

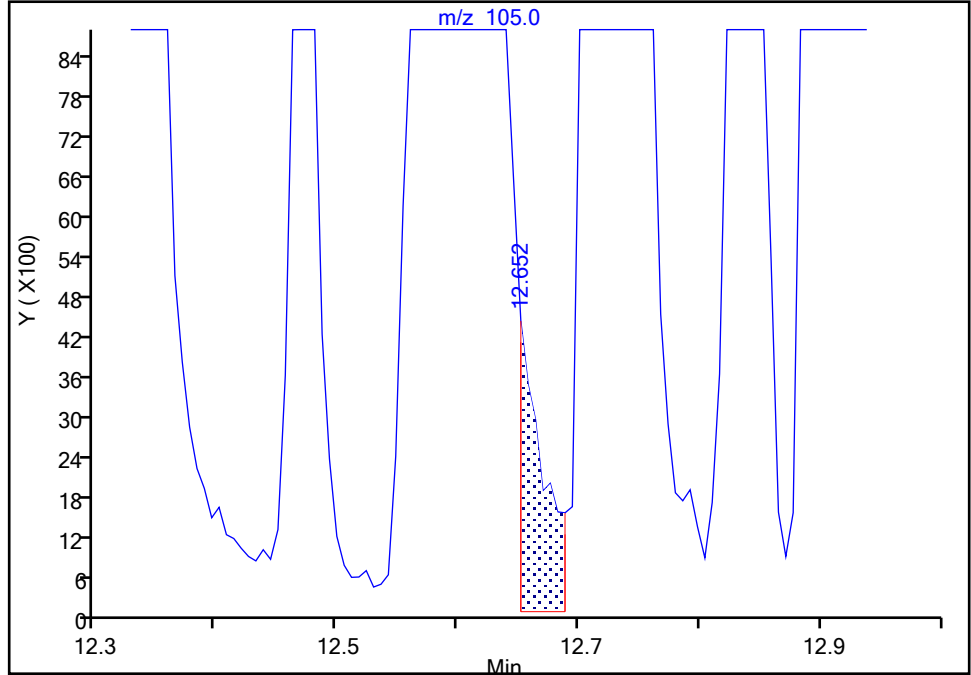
Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X17.D  
Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

131 1,2,4-Trimethylbenzene, CAS: 95-63-6

Signal: 1

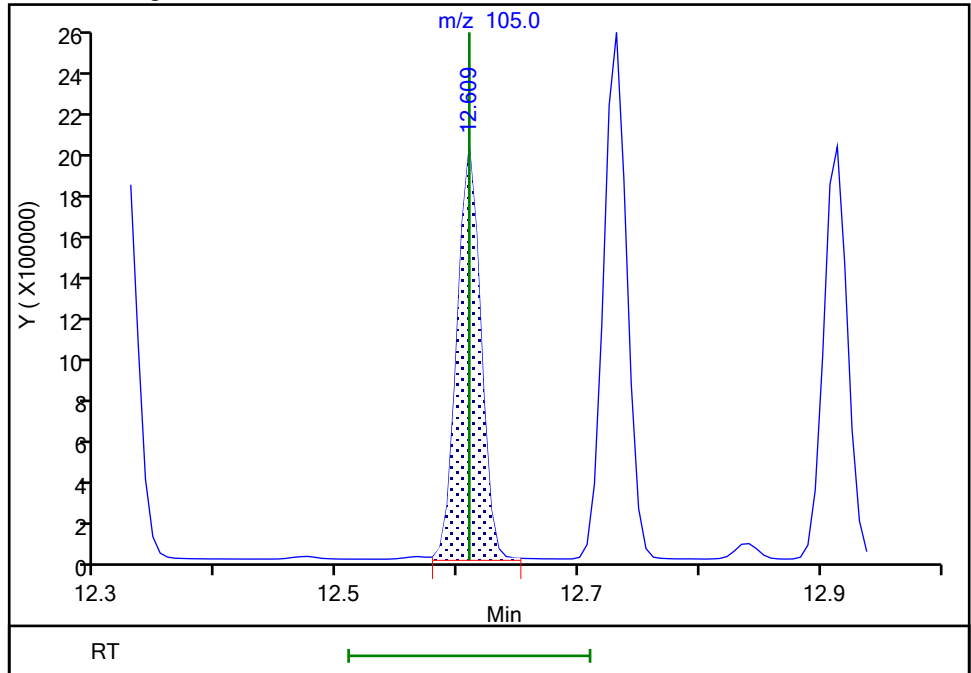
RT: 12.65  
Area: 6384  
Amount: 0.034086  
Amount Units: ug/l

Processing Integration Results



RT: 12.61  
Area: 2718845  
Amount: 10.317099  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:41:12 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

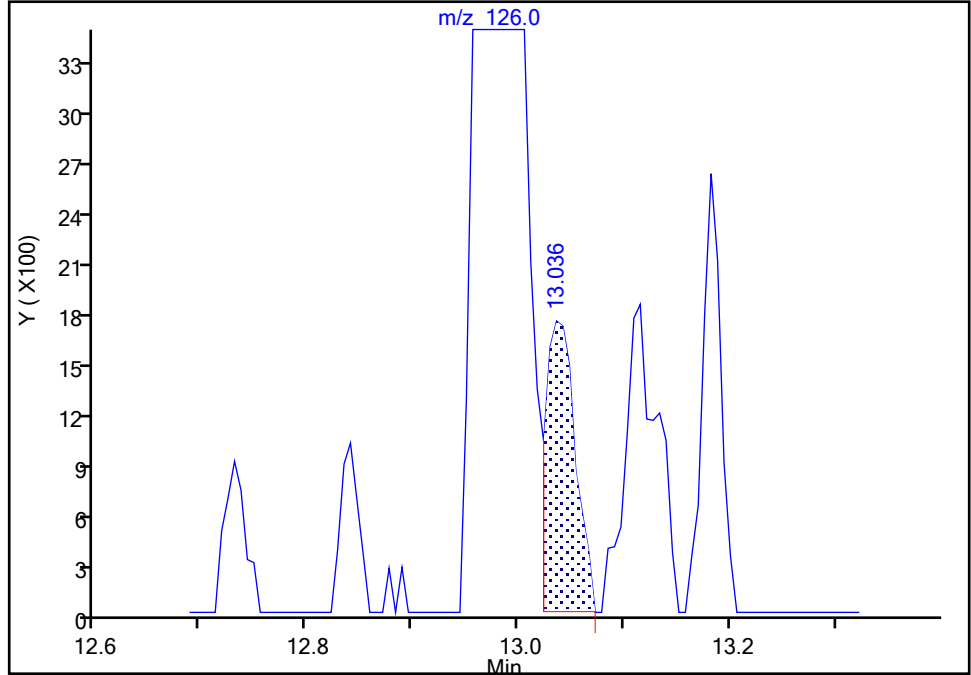
Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X17.D  
Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

138 Benzyl chloride, CAS: 100-44-7

Signal: 1

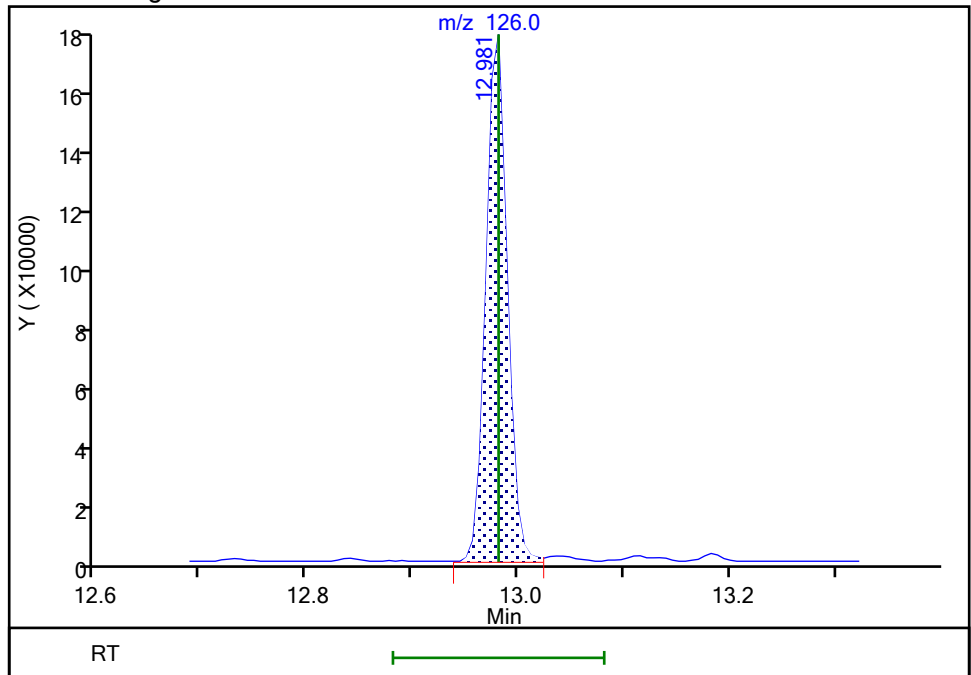
RT: 13.04  
Area: 3377  
Amount: 0.271077  
Amount Units: ug/l

Processing Integration Results



RT: 12.98  
Area: 244410  
Amount: 10.804047  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:41:22 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

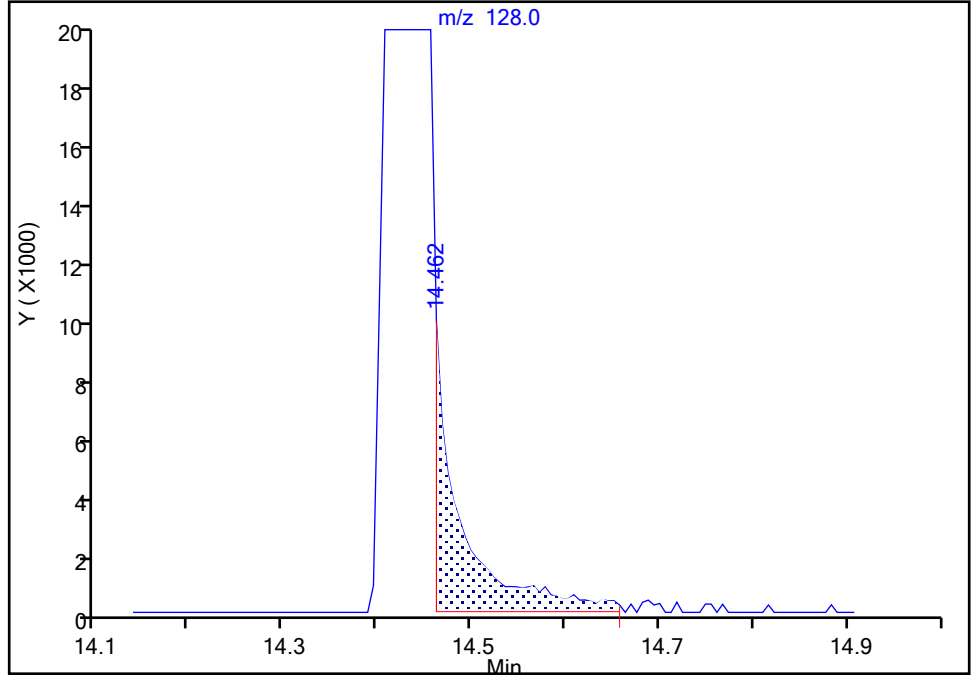
Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X17.D  
Injection Date: 19-Jun-2023 20:03:30 Instrument ID: 19930  
Lims ID: ICIS std6 LG  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 17 Worklist Smp#: 18  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

146 Naphthalene, CAS: 91-20-3

Signal: 1

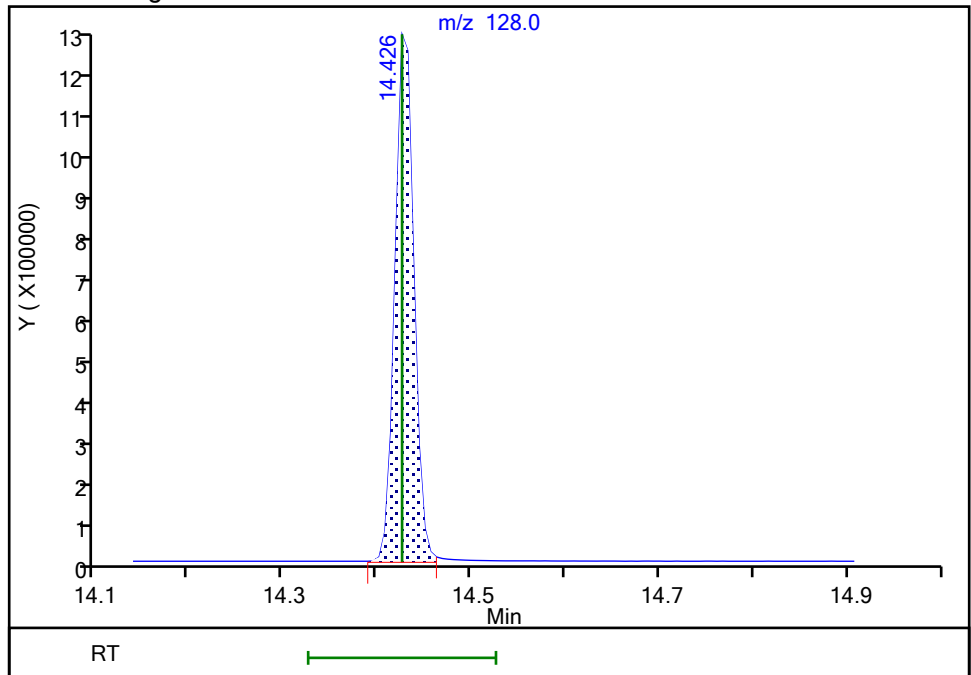
RT: 14.46  
Area: 19147  
Amount: 0.166073  
Amount Units: ug/l

Processing Integration Results



RT: 14.43  
Area: 1695646  
Amount: 10.383120  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 07:41:30 -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\20230619-86929.b\IU19X18.D  
 Lims ID: IC std7  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 19-Jun-2023 20:25:30 ALS Bottle#: 18 Worklist Smp#: 19  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0086929-019  
 Misc. Info.: LG 25.0  
 Operator ID: KNK41612 Instrument ID: 19930  
 Sublist: chrom-8260 25ml HP31\*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 27-Jun-2023 12:30:46 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D

Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1687

First Level Reviewer: DVW2

Date: 21-Jun-2023 07:44:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.855	1.855	0.000	99	1664427	25.0	22.0	
4 Chloromethane	50	2.044	2.050	-0.006	99	1751882	25.0	22.8	
5 Vinyl chloride	62	2.148	2.160	-0.012	98	1731717	25.0	23.5	
6 Butadiene	39	2.154	2.160	-0.006	90	1556945	25.0	20.2	M
7 Bromomethane	94	2.459	2.465	-0.006	90	1304970	25.0	22.7	
8 Chloroethane	64	2.532	2.538	-0.006	99	1001229	25.0	22.7	
9 Dichlorofluoromethane	67	2.757	2.764	-0.007	97	2721094	25.0	22.1	
10 Trichlorofluoromethane	101	2.818	2.824	-0.006	98	2175547	25.0	23.2	
11 Ethyl ether	59	3.038	3.050	-0.012	89	946563	25.0	24.5	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.129	3.142	-0.013	91	1511147	25.0	22.6	
14 Acrolein	56	3.196	3.209	-0.013	98	7153643	1250.0	1224.8	
15 1,1-Dichloroethene	96	3.330	3.337	-0.007	97	1241308	25.0	24.5	
16 Acetone	43	3.355	3.361	-0.006	100	1362907	250.0	211.3	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.379	3.385	-0.006	90	1362883	25.0	25.3	
18 Iodomethane	142	3.519	3.526	-0.007	98	2625621	25.0	24.6	
19 Ethyl bromide	108	3.544	3.550	-0.006	98	1087944	25.0	24.5	
20 Carbon disulfide	76	3.617	3.629	-0.012	99	3467769	25.0	25.2	
23 Methyl acetate	43	3.751	3.757	-0.006	96	407475	25.0	25.6	M
24 3-Chloro-1-propene	41	3.775	3.782	-0.007	91	1915265	25.0	24.3	
25 Methylene Chloride	84	3.952	3.958	-0.006	89	1292711	25.0	24.1	
* 26 t-Butyl alcohol-d10 (IS)	65	3.977	3.977	0.000	95	134884	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.099	4.093	0.006	99	1110969	500.0	432.9	
28 Acrylonitrile	53	4.269	4.282	-0.013	100	527652	62.5	67.3	
29 Methyl tert-butyl ether	73	4.342	4.342	0.000	94	3409123	25.0	24.5	
30 trans-1,2-Dichloroethene	96	4.342	4.355	-0.013	98	1385244	25.0	24.5	
31 Hexane	57	4.769	4.781	-0.012	91	1840079	25.0	24.9	
32 1,1-Dichloroethane	63	5.007	5.013	-0.006	96	2413824	25.0	25.0	
35 Isopropyl ether	45	5.068	5.074	-0.006	93	3889612	25.0	24.5	
36 2-Chloro-1,3-butadiene	53	5.117	5.123	-0.006	90	2022645	25.0	25.0	
37 Tert-butyl ethyl ether	59	5.617	5.623	-0.006	96	3706375	25.0	24.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2-Butanone (MEK)	43	5.806	5.812	-0.006	99	2912203	250.0	234.3	
39 cis-1,2-Dichloroethene	96	5.848	5.854	-0.006	80	1543889	25.0	24.6	
40 2,2-Dichloropropane	77	5.860	5.867	-0.007	86	2153694	25.0	24.7	
43 Propionitrile	54	5.891	5.891	0.000	99	1642296	500.0	499.5	
45 Methacrylonitrile	67	6.110	6.110	0.000	91	3198256	250.0	246.5	
S 41 1,2-Dichloroethene, Total	100				0			49.1	
46 Chlorobromomethane	128	6.184	6.190	-0.006	86	693916	25.0	24.3	
47 Tetrahydrofuran	71	6.196	6.196	0.000	77	469929	125.0	114.9	
48 Chloroform	83	6.336	6.342	-0.006	93	2439280	25.0	24.4	
\$ 49 Dibromofluoromethane (Surr)	113	6.549	6.555	-0.006	95	482075	10.0	9.92	
50 1,1,1-Trichloroethane	97	6.562	6.568	-0.006	98	2318413	25.0	24.9	
51 Cyclohexane	56	6.665	6.671	-0.006	88	2230992	25.0	25.2	
54 Carbon tetrachloride	117	6.775	6.781	-0.006	95	2152417	25.0	25.9	
53 1,1-Dichloropropene	75	6.775	6.781	-0.006	95	1881849	25.0	25.3	
55 Isobutyl alcohol	41	6.933	6.940	-0.007	95	965364	1250.0	1058.9	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.007	7.013	-0.006	78	92867	10.0	9.64	
57 Benzene	78	7.043	7.043	0.000	95	5552169	25.0	24.9	
58 1,2-Dichloroethane	62	7.110	7.116	-0.006	98	1462742	25.0	24.2	
60 Tert-amyl methyl ether	73	7.244	7.244	0.000	98	3439411	25.0	24.5	
* 61 Fluorobenzene (IS)	96	7.452	7.452	0.000	96	1891215	10.0	10.0	
62 n-Heptane	43	7.470	7.470	0.000	89	1798135	25.0	25.3	
63 n-Butanol	56	7.830	7.836	-0.006	86	1598692	2187.5	2282.9	
64 Trichloroethene	95	7.933	7.933	0.000	96	1562411	25.0	25.1	
65 Methylcyclohexane	83	8.244	8.244	0.000	91	2562276	25.0	25.5	
66 1,2-Dichloropropane	63	8.262	8.269	-0.007	97	1384198	25.0	25.1	
67 Methyl methacrylate	69	8.354	8.354	0.000	87	695290	25.0	27.2	
68 1,4-Dioxane	88	8.366	8.366	0.000	29	191965	1250.0	1290.7	M
69 Dibromomethane	93	8.378	8.378	0.000	91	678044	25.0	24.5	
71 Dichlorobromomethane	83	8.616	8.616	0.000	99	1814784	25.0	25.3	
72 2-Nitropropane	41	8.884	8.884	0.000	98	979651	125.0	117.2	
75 1-Bromo-2-chloroethane	63	9.012	9.012	0.000	98	1391897	25.0	24.7	
76 cis-1,3-Dichloropropene	75	9.177	9.177	0.000	97	2232649	25.0	25.9	
77 4-Methyl-2-pentanone (MIBK)	43	9.360	9.360	0.000	95	8166235	250.0	244.8	
\$ 78 Toluene-d8 (Surr)	98	9.500	9.500	0.000	93	1923611	10.0	9.92	
79 Toluene	92	9.573	9.579	-0.006	99	3812060	25.0	24.9	
97 trans-1,3-Dichloropropene	75	9.847	9.848	-0.001	91	1881067	25.0	26.0	
99 Ethyl methacrylate	69	9.915	9.915	0.000	88	1490629	25.0	25.0	
100 1,1,2-Trichloroethane	97	10.055	10.055	0.000	90	1028167	25.0	23.8	
S 98 1,3-Dichloropropene, Total	100				0			52.0	
101 Tetrachloroethene	166	10.146	10.146	0.000	98	2002051	25.0	25.1	
102 1,3-Dichloropropane	76	10.219	10.219	0.000	89	1673377	25.0	24.5	
103 2-Hexanone	43	10.274	10.274	0.000	95	5838914	250.0	247.4	
105 Chlorodibromomethane	129	10.439	10.439	0.000	89	1452583	25.0	25.8	
106 Ethylene Dibromide	107	10.549	10.549	0.000	99	1012515	25.0	24.9	
* 107 Chlorobenzene-d5 (IS)	117	10.987	10.988	-0.001	84	1508853	10.0	10.0	
108 1-Chlorohexane	91	11.000	11.000	0.000	95	2153392	25.0	24.2	a
109 Chlorobenzene	112	11.018	11.018	0.000	97	4440532	25.0	24.8	
111 1,1,1,2-Tetrachloroethane	131	11.097	11.097	0.000	96	1601843	25.0	25.1	
112 Ethylbenzene	91	11.103	11.103	0.000	98	7384442	25.0	24.8	a
113 m-Xylene & p-Xylene	106	11.219	11.219	0.000	93	6014911	50.0	49.9	
S 110 Xylenes, Total	106				0			74.7	
114 o-Xylene	106	11.554	11.554	0.000	96	2958784	25.0	24.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Styrene	104	11.567	11.567	0.000	95	4890581	25.0	25.5	
116 Bromoform	173	11.725	11.725	0.000	99	975567	25.0	26.8	
117 Isopropylbenzene	105	11.853	11.859	-0.006	95	7684471	25.0	24.9	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.999	12.000	-0.001	96	725457	10.0	9.92	
121 1,1,2,2-Tetrachloroethane	83	12.103	12.103	0.000	93	1308898	25.0	24.0	
122 Bromobenzene	156	12.115	12.115	0.000	95	1971522	25.0	25.0	
123 trans-1,4-Dichloro-2-butene	53	12.128	12.128	0.000	90	3165888	250.0	252.0	
124 1,2,3-Trichloropropane	110	12.146	12.146	0.000	79	365750	25.0	23.9	
125 N-Propylbenzene	91	12.188	12.189	-0.001	98	8784621	25.0	25.1	
126 2-Chlorotoluene	126	12.262	12.262	0.000	98	1917179	25.0	25.1	a
127 1,3,5-Trimethylbenzene	105	12.323	12.323	0.000	94	6676624	25.0	25.1	
128 4-Chlorotoluene	126	12.353	12.353	0.000	95	1951600	25.0	25.0	a
129 tert-Butylbenzene	134	12.566	12.566	0.000	92	1627291	25.0	25.4	
130 Pentachloroethane	167	12.597	12.597	0.000	91	1326828	25.0	26.8	
131 1,2,4-Trimethylbenzene	105	12.609	12.609	0.000	97	6868217	25.0	25.1	
132 sec-Butylbenzene	105	12.731	12.731	0.000	94	8486591	25.0	25.1	
133 1,3-Dichlorobenzene	146	12.829	12.829	0.000	99	3937722	25.0	25.5	
134 4-Isopropyltoluene	119	12.841	12.841	0.000	96	7679357	25.0	25.4	
* 135 1,4-Dichlorobenzene-d4	152	12.883	12.884	-0.001	92	917393	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.902	12.902	0.000	95	3772911	25.0	24.8	
137 1,2,3-Trimethylbenzene	120	12.914	12.914	0.000	98	3097874	25.0	25.1	
138 Benzyl chloride	126	12.981	12.981	0.000	98	627829	25.0	26.8	
139 n-Butylbenzene	92	13.133	13.133	0.000	97	3646359	25.0	27.0	
140 1,2-Dichlorobenzene	146	13.158	13.158	0.000	99	3615183	25.0	25.0	
142 1,2-Dibromo-3-Chloropropane	155	13.700	13.700	0.000	92	237783	25.0	26.6	
143 1,3,5-Trichlorobenzene	180	13.828	13.828	0.000	98	3136365	25.0	27.1	
144 1,2,4-Trichlorobenzene	180	14.249	14.249	0.000	94	2595192	25.0	27.9	
145 Hexachlorobutadiene	225	14.334	14.334	0.000	95	1241765	25.0	27.4	
146 Naphthalene	128	14.426	14.426	0.000	97	4430802	25.0	26.2	
147 1,2,3-Trichlorobenzene	180	14.572	14.572	0.000	96	2127625	25.0	27.3	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
165 Isopropyl alcohol	45		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_00081	Amount Added: 25.00	Units: uL	
MSV_LL_#2_826_00093	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00156	Amount Added: 25.00	Units: uL	
MSV_LLcentISS_00007	Amount Added: 5.00	Units: uL	Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D

Injection Date: 19-Jun-2023 20:25:30

Instrument ID: 19930

Operator ID: KNK41612

Lims ID: IC std7

Worklist Smp#: 19

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

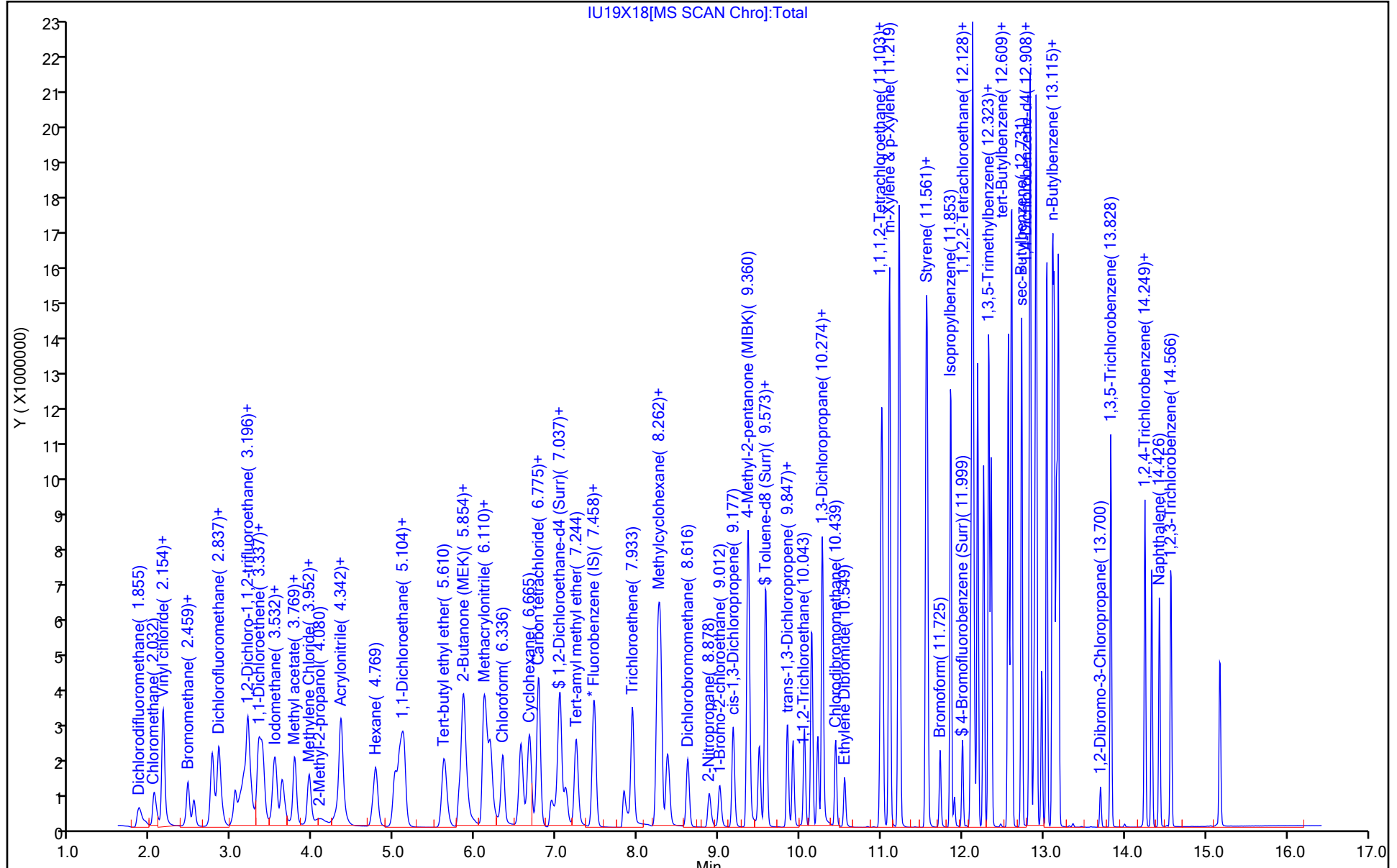
ALS Bottle#: 18

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

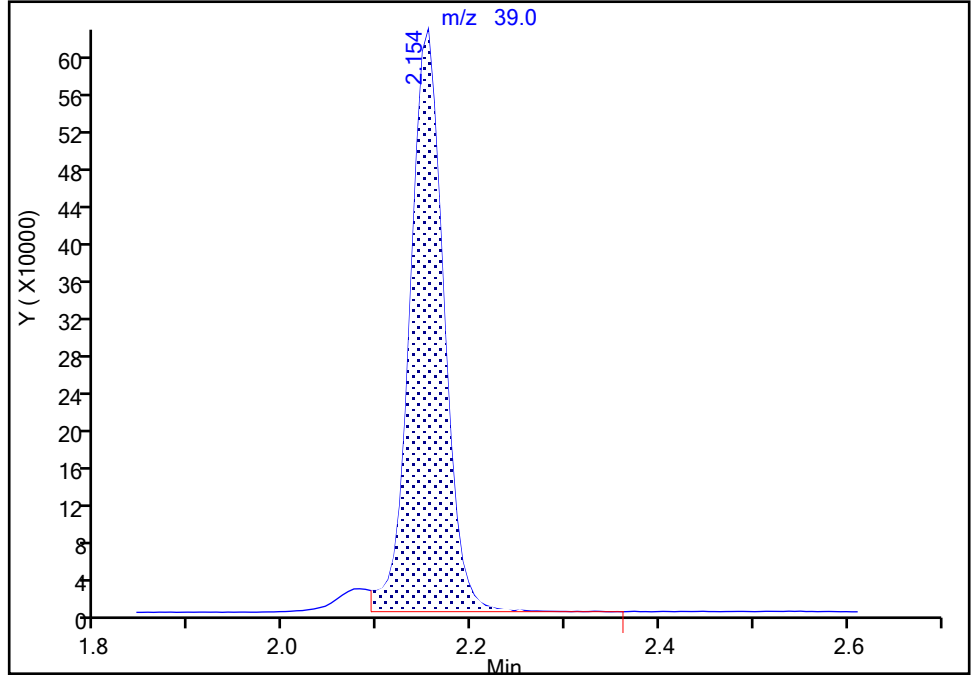
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Lims ID: IC std7  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 18 Worklist Smp#: 19  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

6 Butadiene, CAS: 106-99-0

Signal: 1

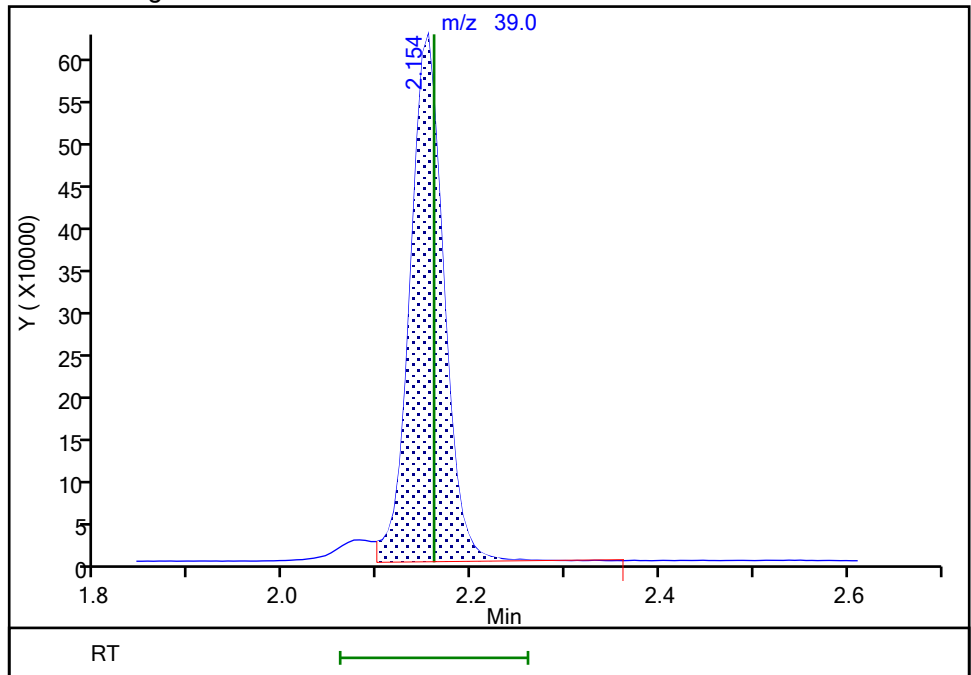
RT: 2.15  
Area: 1565423  
Amount: 20.311812  
Amount Units: ug/l

Processing Integration Results



RT: 2.15  
Area: 1556945  
Amount: 20.214514  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 08:08:46 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration



Eurofins Lancaster Laboratories Environment Testing, LLC

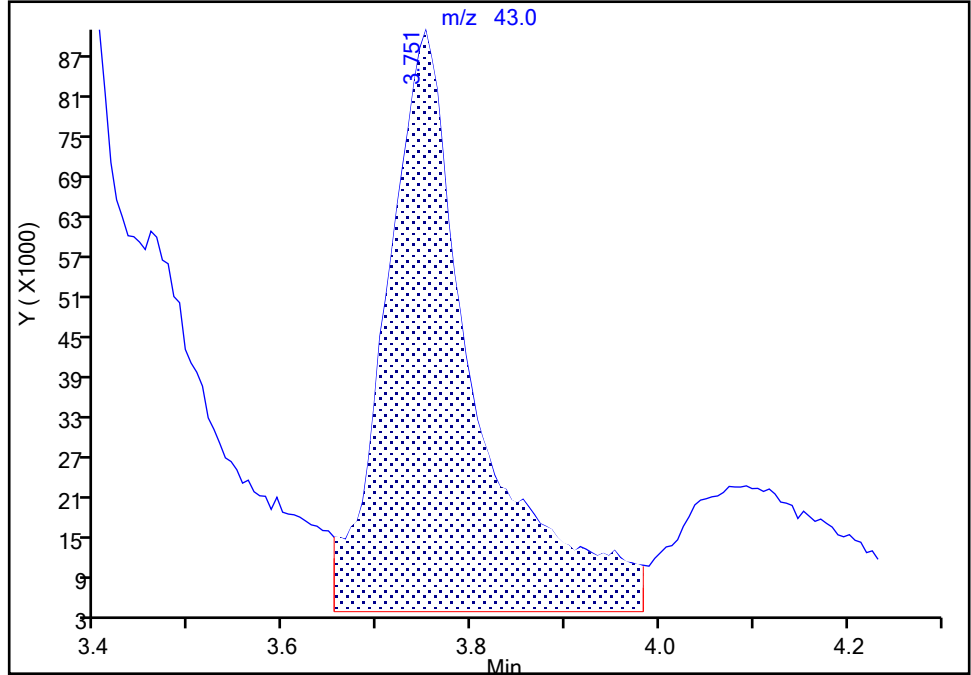
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Injection Date: 19-Jun-2023 20:25:30 Instrument ID: 19930  
Lims ID: IC std7  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 18 Worklist Smp#: 19  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

23 Methyl acetate, CAS: 79-20-9

Signal: 1

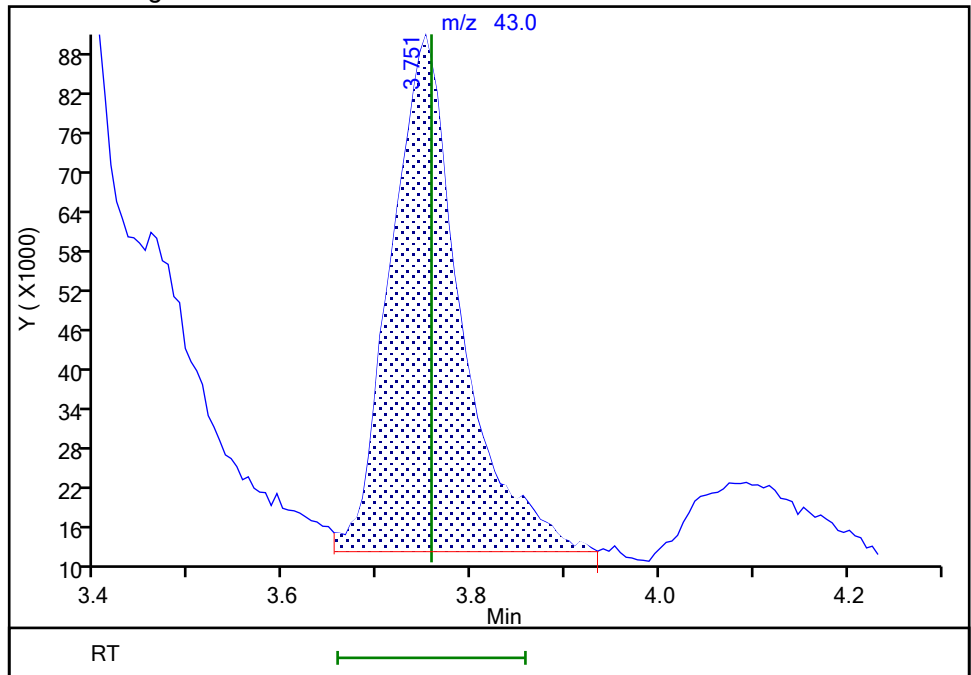
RT: 3.75  
Area: 572097  
Amount: 37.539030  
Amount Units: ug/l

Processing Integration Results



RT: 3.75  
Area: 407475  
Amount: 25.592656  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 08:09:07 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

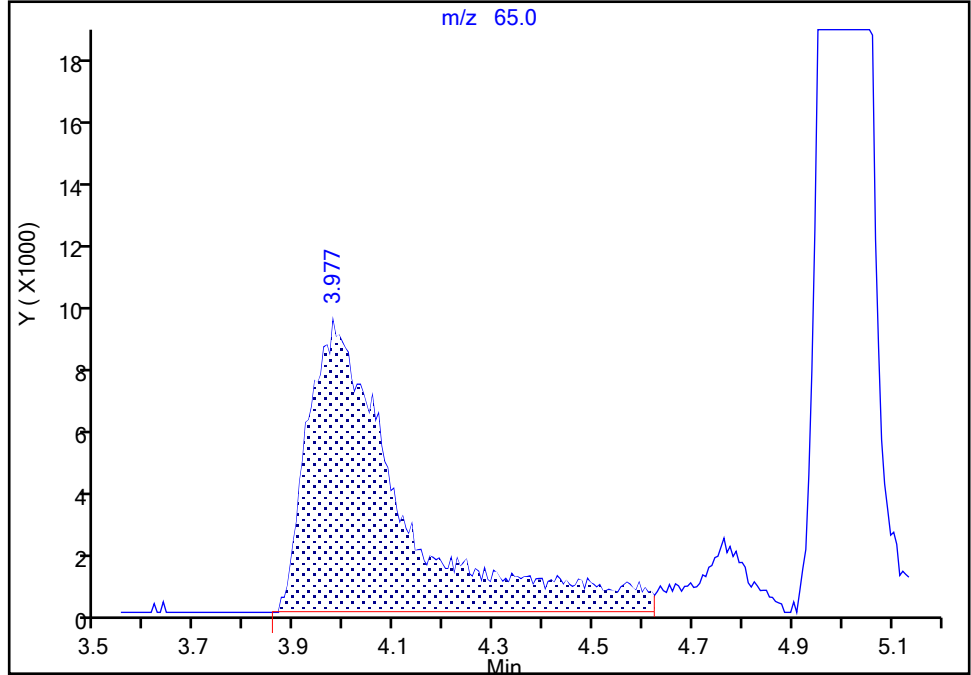
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Injection Date: 19-Jun-2023 20:25:30 Instrument ID: 19930  
Lims ID: IC std7  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 18 Worklist Smp#: 19  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

\* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

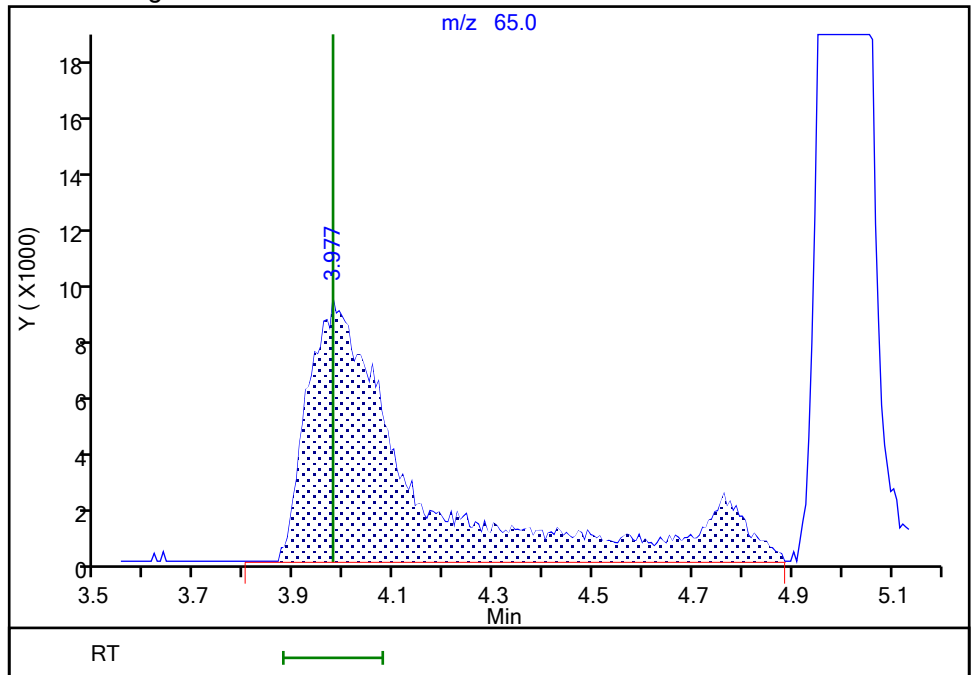
RT: 3.98  
Area: 118787  
Amount: 50.000000  
Amount Units: ug/l

Processing Integration Results



RT: 3.98  
Area: 134884  
Amount: 50.000000  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 08:09:14 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

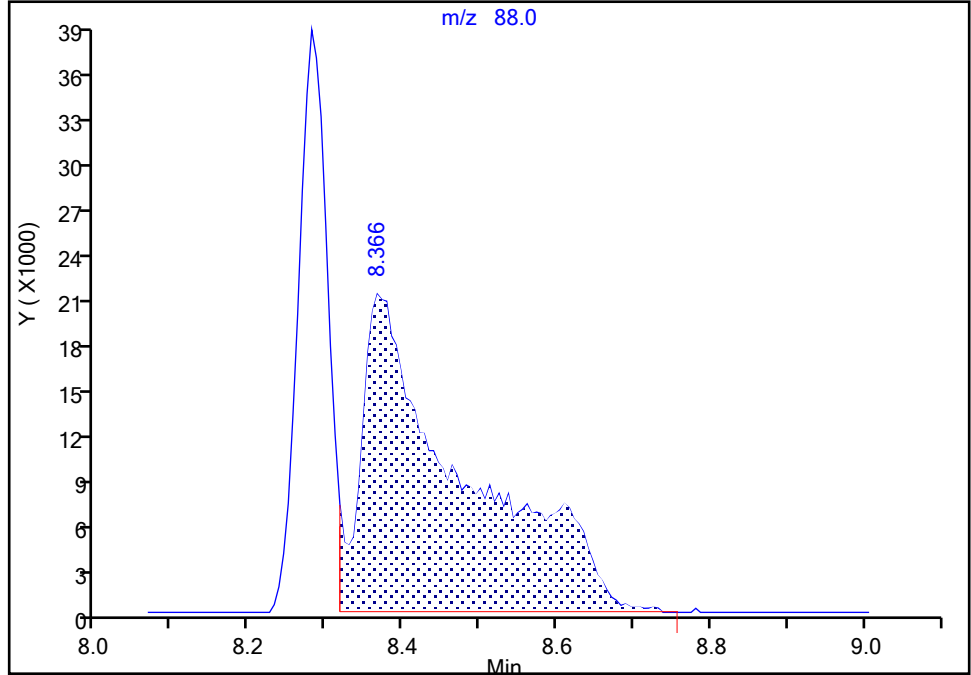
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Injection Date: 19-Jun-2023 20:25:30 Instrument ID: 19930  
Lims ID: IC std7  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 18 Worklist Smp#: 19  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

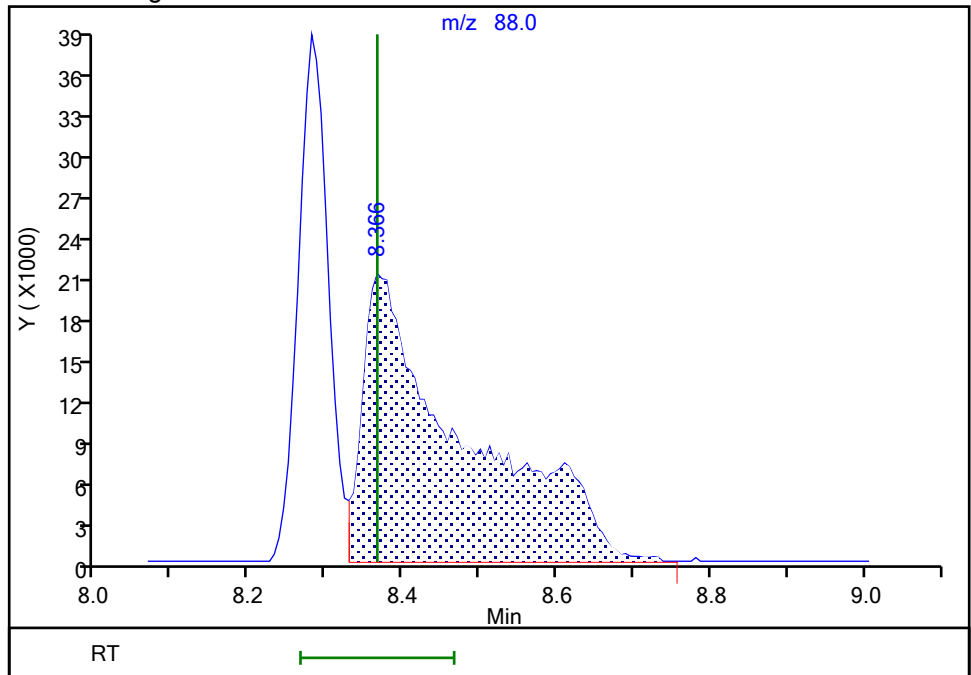
RT: 8.37  
Area: 196286  
Amount: 1239.8637  
Amount Units: ug/l

Processing Integration Results



RT: 8.37  
Area: 191965  
Amount: 1290.6594  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 08:09:34 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

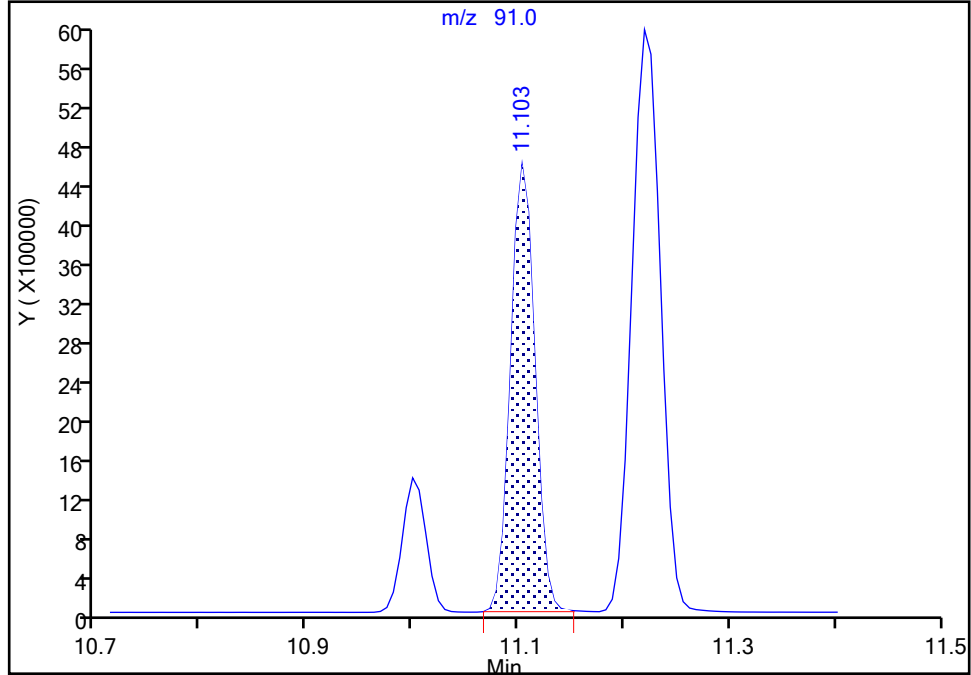
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Injection Date: 19-Jun-2023 20:25:30 Instrument ID: 19930  
Lims ID: IC std7  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 18 Worklist Smp#: 19  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

108 1-Chlorohexane, CAS: 544-10-5

Signal: 1

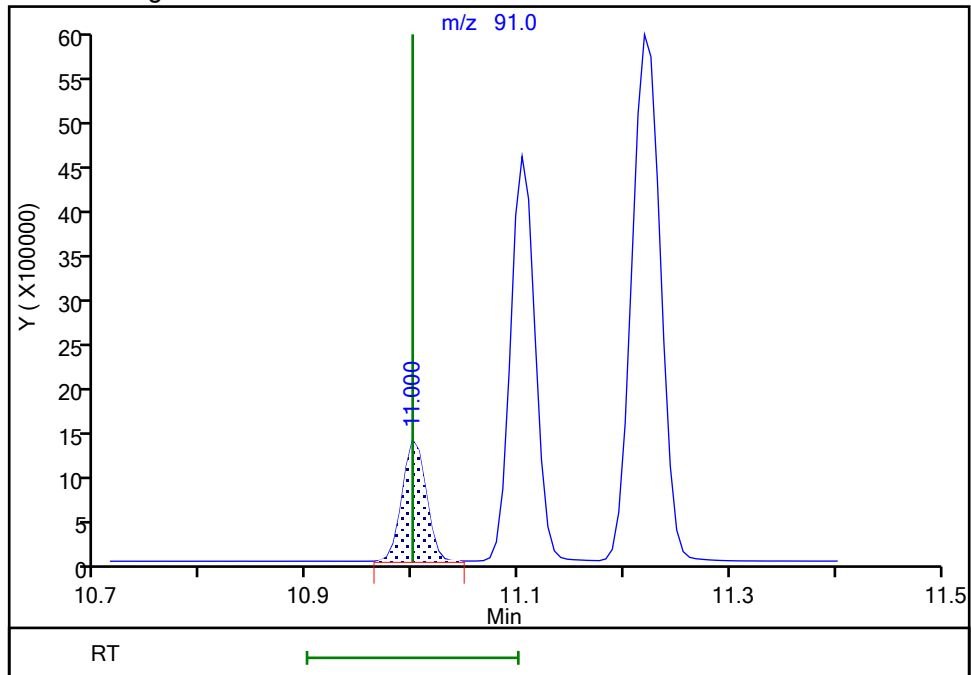
RT: 11.10  
Area: 7391753  
Amount: 62.122953  
Amount Units: ug/l

Processing Integration Results



RT: 11.00  
Area: 2153392  
Amount: 24.181187  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 22-Jun-2023 07:48:40 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

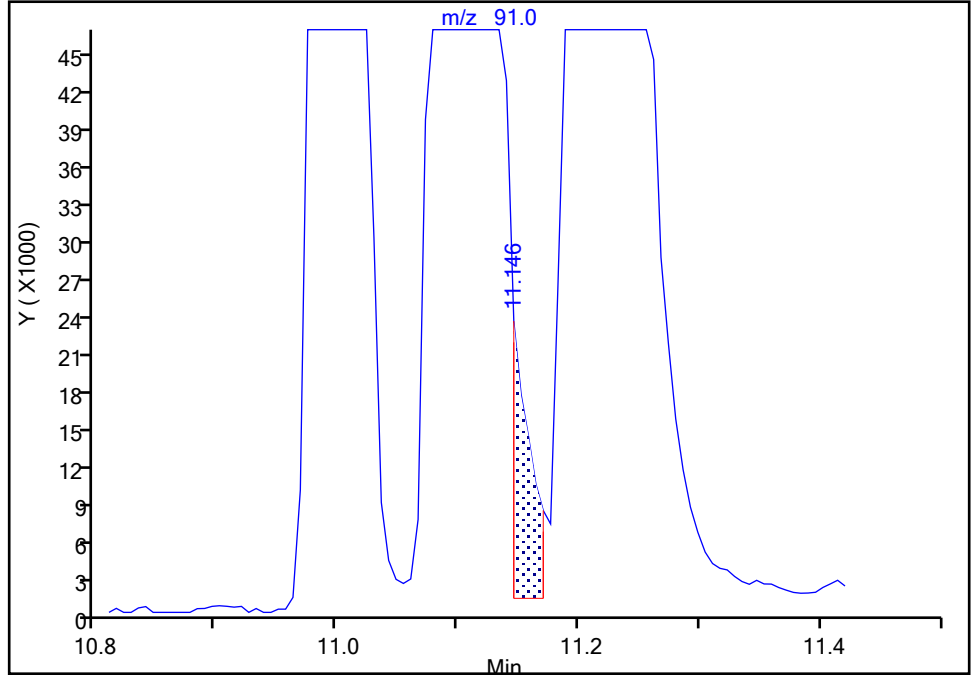
Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
Injection Date: 19-Jun-2023 20:25:30 Instrument ID: 19930  
Lims ID: IC std7  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 18 Worklist Smp#: 19  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

112 Ethylbenzene, CAS: 100-41-4

Signal: 1

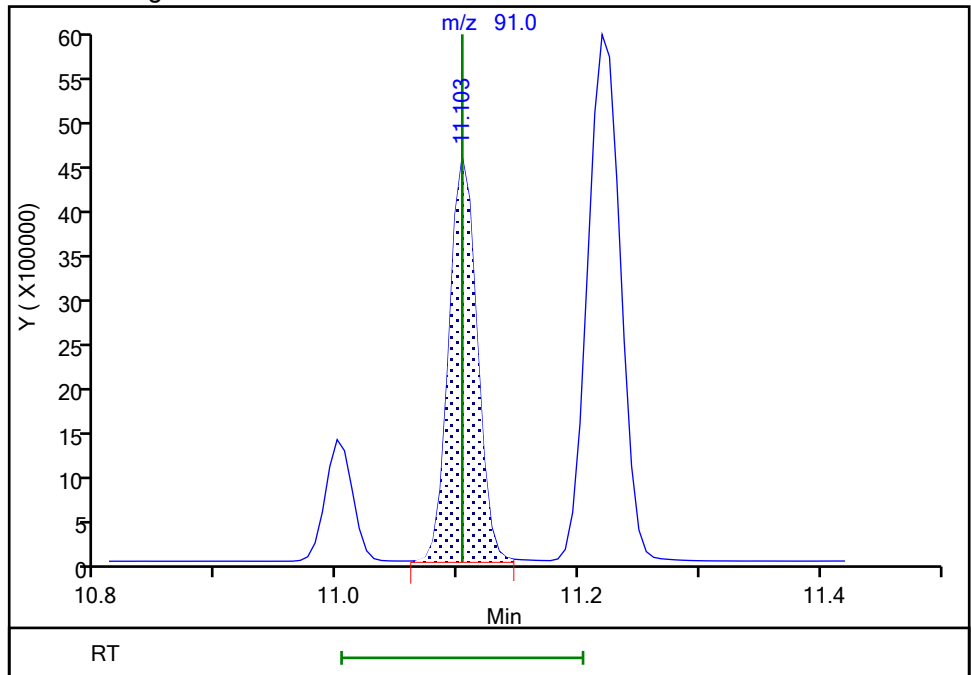
RT: 11.15  
Area: 24916  
Amount: 0.062513  
Amount Units: ug/l

Processing Integration Results



RT: 11.10  
Area: 7384442  
Amount: 24.762603  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 15:39:35 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

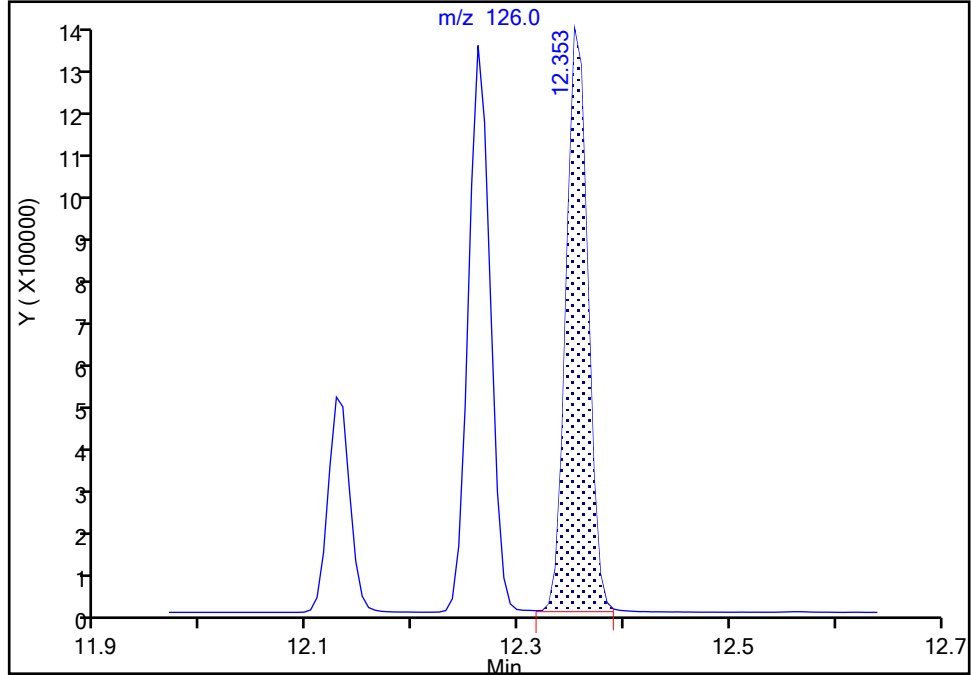
Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
Injection Date: 19-Jun-2023 20:25:30 Instrument ID: 19930  
Lims ID: IC std7  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 18 Worklist Smp#: 19  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

126 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

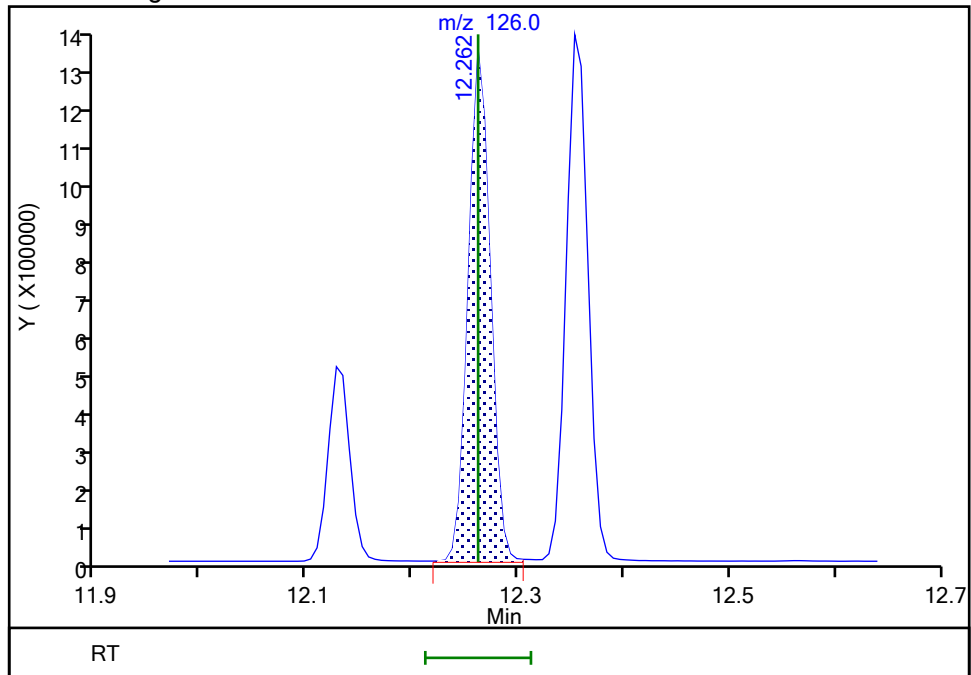
RT: 12.35  
Area: 1951600  
Amount: 25.516478  
Amount Units: ug/l

Processing Integration Results



RT: 12.26  
Area: 1917179  
Amount: 25.131064  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 15:39:42 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

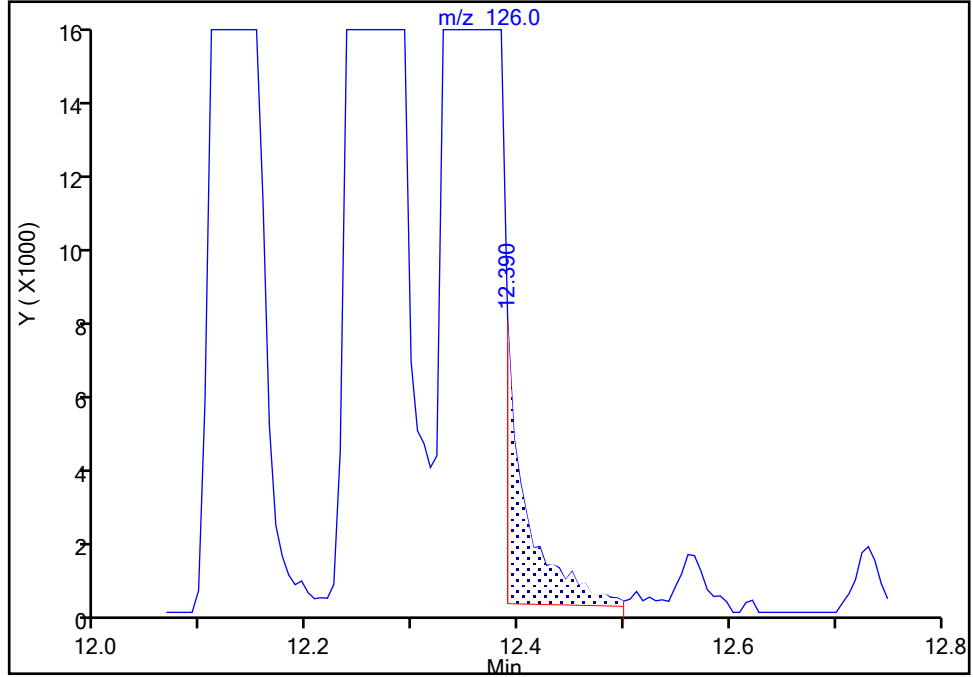
Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\U19X18.D  
Injection Date: 19-Jun-2023 20:25:30 Instrument ID: 19930  
Lims ID: IC std7  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 18 Worklist Smp#: 19  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

128 4-Chlorotoluene, CAS: 106-43-4

Signal: 1

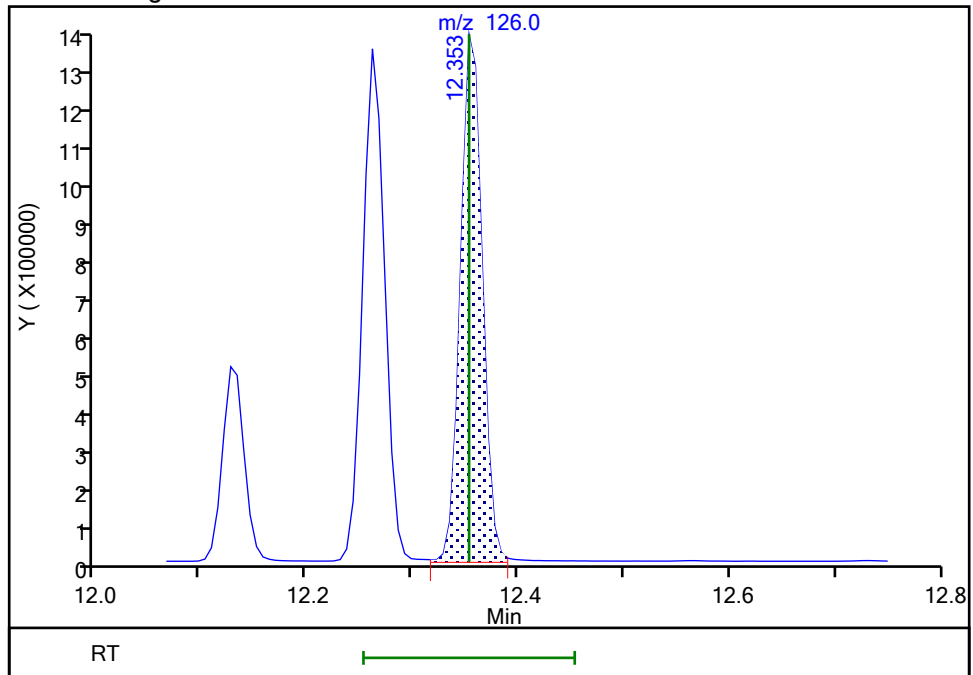
RT: 12.39  
Area: 10355  
Amount: 0.154390  
Amount Units: ug/l

Processing Integration Results



RT: 12.35  
Area: 1951600  
Amount: 24.968247  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 08:09:57 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

**Calibration**

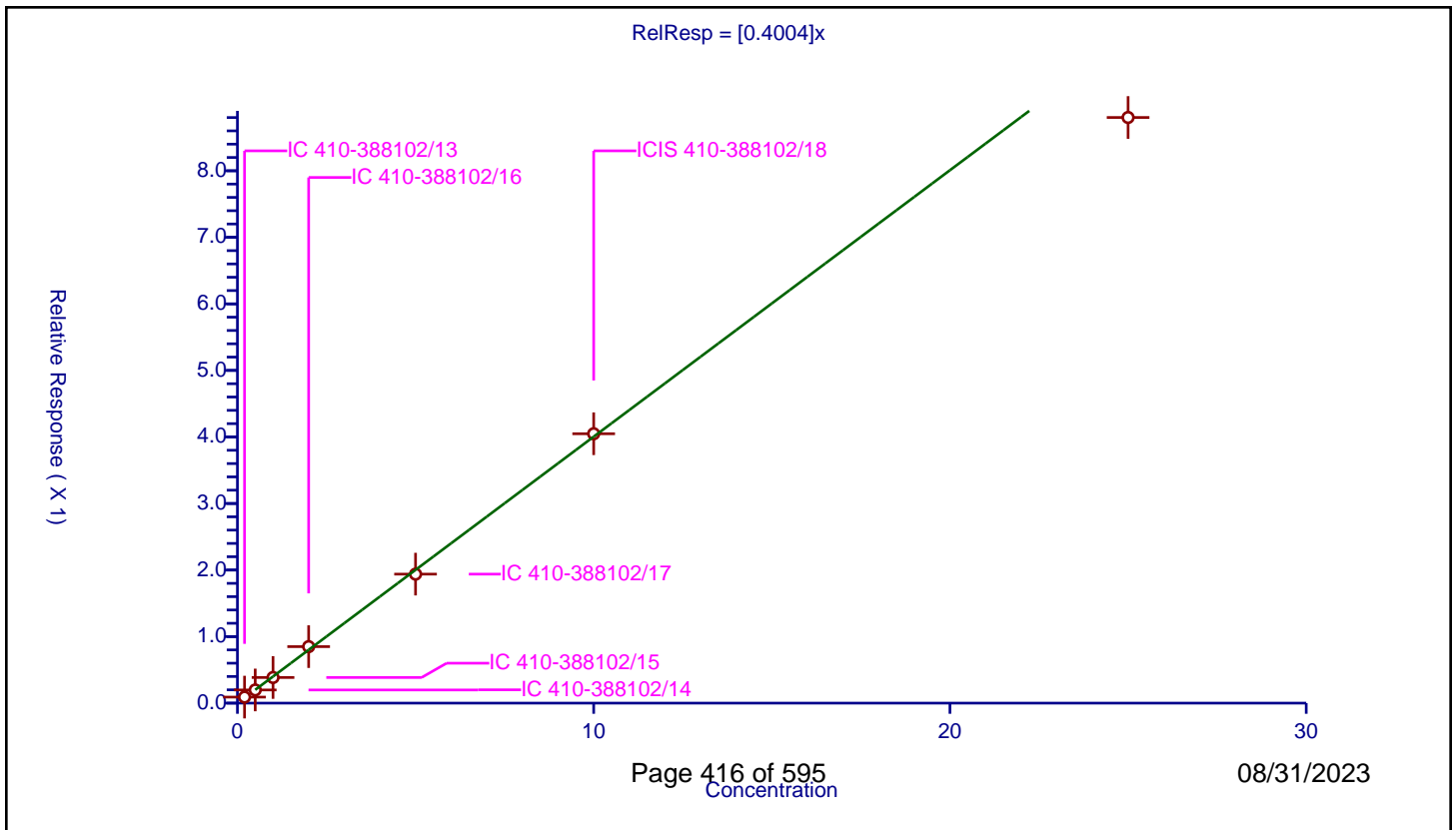
/ Dichlorodifluoromethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4004

Error Coefficients	
Standard Error:	760000
Relative Standard Error:	7.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.090503	10.0	1795291.0	0.452517	Y
2	IC 410-388102/14	0.5	0.19797	10.0	1753956.0	0.395939	Y
3	IC 410-388102/15	1.0	0.385136	10.0	1790586.0	0.385136	Y
4	IC 410-388102/16	2.0	0.8493	10.0	1802566.0	0.42465	Y
5	IC 410-388102/17	5.0	1.938742	10.0	1860774.0	0.387748	Y
6	ICIS 410-388102/18	10.0	4.048248	10.0	1807671.0	0.404825	Y
7	IC 410-388102/19	25.0	8.800834	10.0	1891215.0	0.352033	Y





**Calibration**

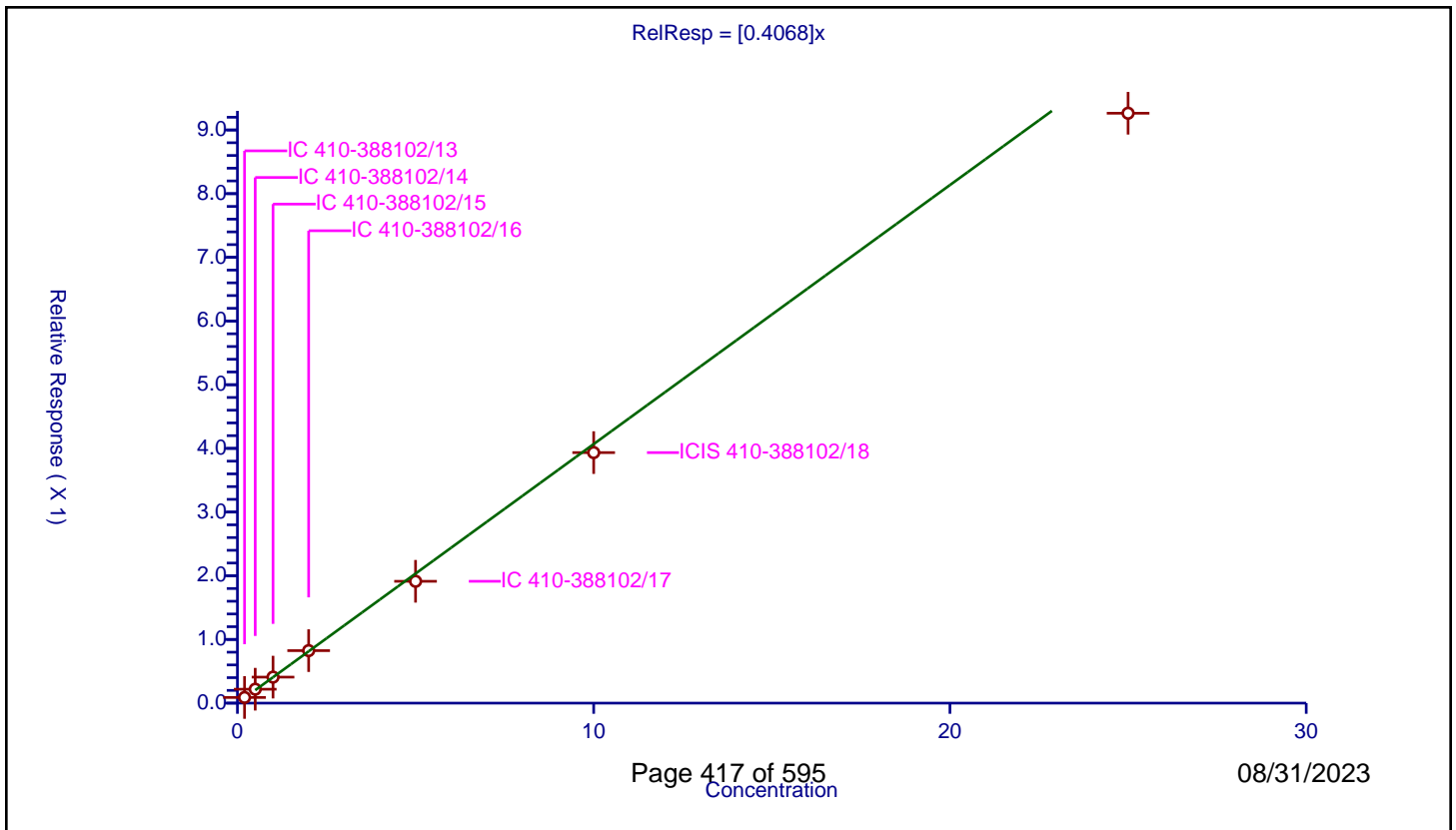
/ Chloromethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4068

Error Coefficients	
Standard Error:	789000
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 410-388102/13	0.2	0.088665	10.0	1795291.0	0.443326	Y
2	IC 410-388102/14	0.5	0.218415	10.0	1753956.0	0.43683	Y
3	IC 410-388102/15	1.0	0.408492	10.0	1790586.0	0.408492	Y
4	IC 410-388102/16	2.0	0.82453	10.0	1802566.0	0.412265	Y
5	IC 410-388102/17	5.0	1.913027	10.0	1860774.0	0.382605	Y
6	ICIS 410-388102/18	10.0	3.934062	10.0	1807671.0	0.393406	Y
7	IC 410-388102/19	25.0	9.263262	10.0	1891215.0	0.37053	Y



Calibration

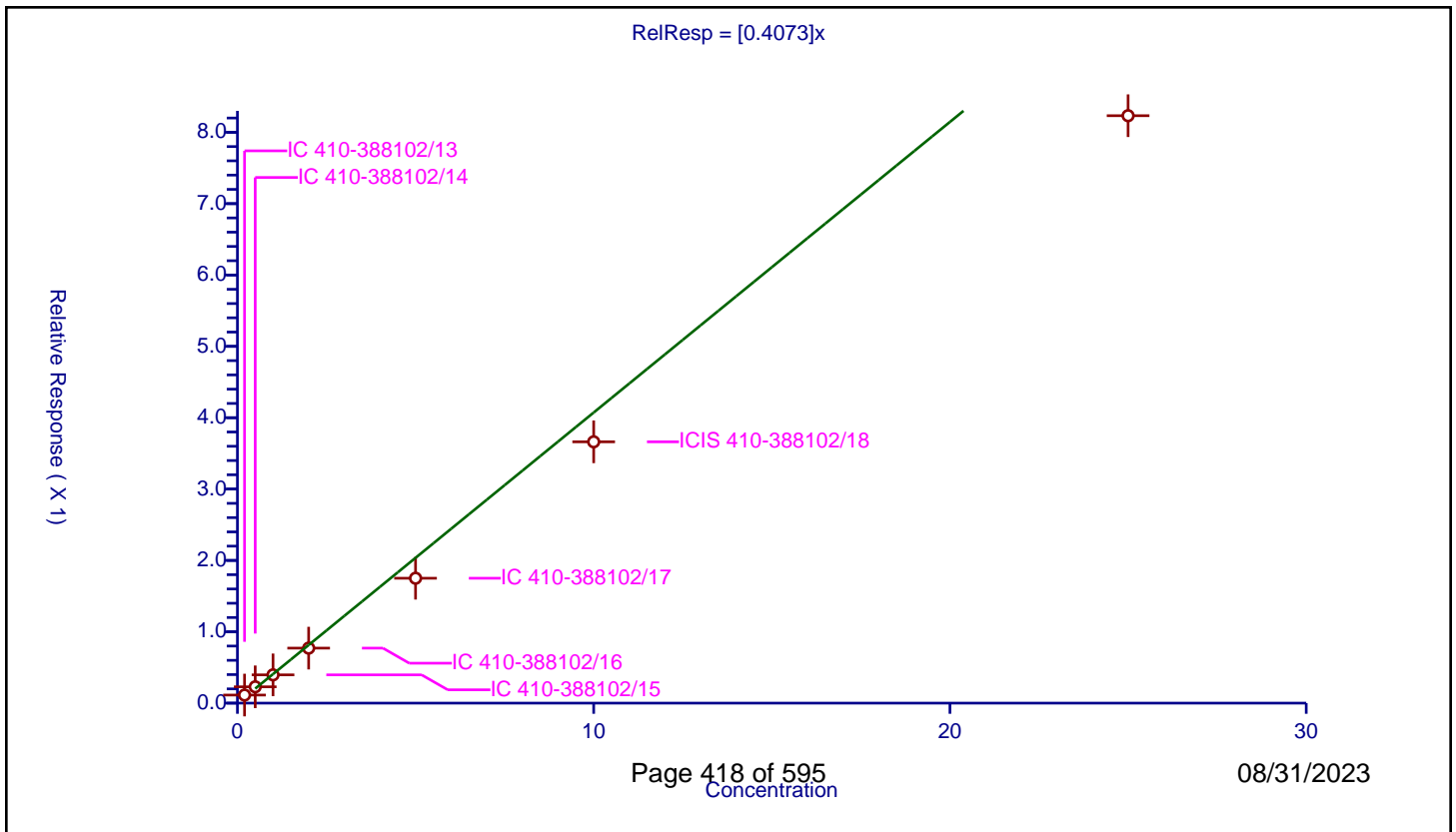
/ Butadiene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4073

Error Coefficients	
Standard Error:	706000
Relative Standard Error:	19.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.928

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.11328	10.0	1795291.0	0.566398	Y
2	IC 410-388102/14	0.5	0.228518	10.0	1753956.0	0.457035	Y
3	IC 410-388102/15	1.0	0.396367	10.0	1790586.0	0.396367	Y
4	IC 410-388102/16	2.0	0.77089	10.0	1802566.0	0.385445	Y
5	IC 410-388102/17	5.0	1.750245	10.0	1860774.0	0.350049	Y
6	ICIS 410-388102/18	10.0	3.662066	10.0	1807671.0	0.366207	Y
7	IC 410-388102/19	25.0	8.232512	10.0	1891215.0	0.3293	Y



**Calibration**

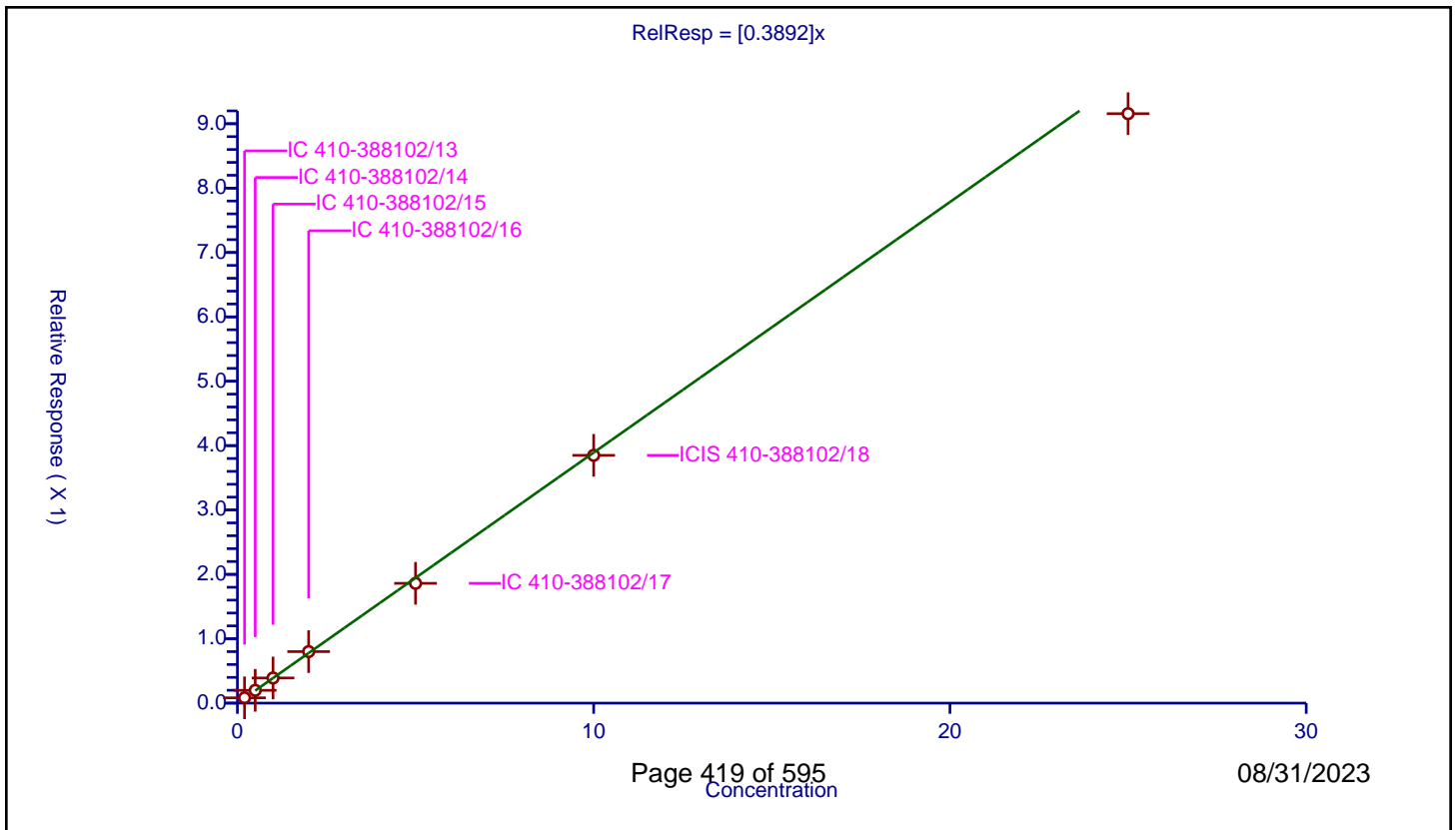
/ Vinyl chloride

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3892

Error Coefficients	
Standard Error:	778000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.08256	10.0	1795291.0	0.412802	Y
2	IC 410-388102/14	0.5	0.198597	10.0	1753956.0	0.397194	Y
3	IC 410-388102/15	1.0	0.390889	10.0	1790586.0	0.390889	Y
4	IC 410-388102/16	2.0	0.800437	10.0	1802566.0	0.400218	Y
5	IC 410-388102/17	5.0	1.860699	10.0	1860774.0	0.37214	Y
6	ICIS 410-388102/18	10.0	3.849207	10.0	1807671.0	0.384921	Y
7	IC 410-388102/19	25.0	9.156637	10.0	1891215.0	0.366265	Y



**Calibration**

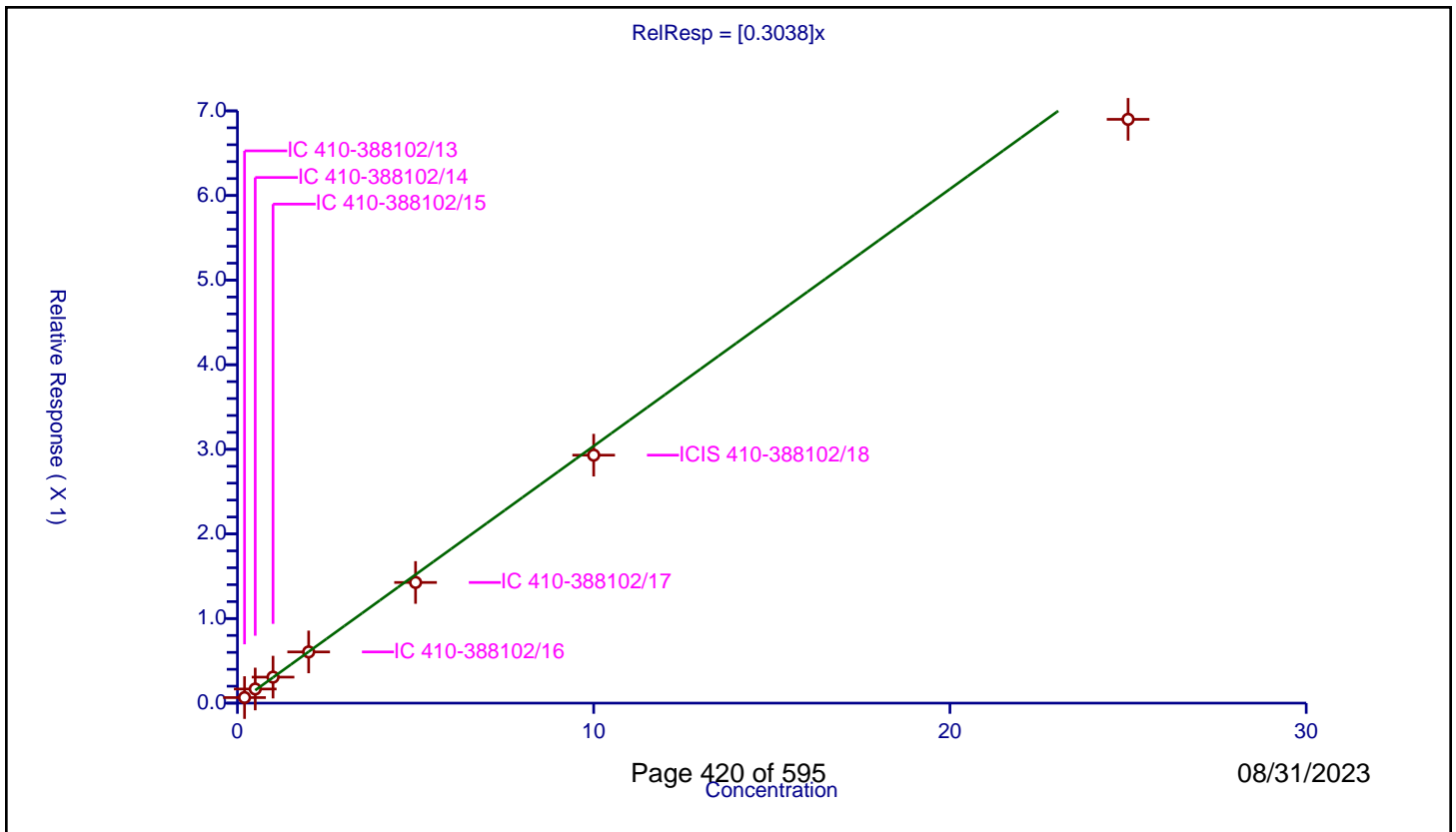
**/ Bromomethane**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3038

Error Coefficients	
Standard Error:	587000
Relative Standard Error:	7.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.065716	10.0	1795291.0	0.328582	Y
2	IC 410-388102/14	0.5	0.16692	10.0	1753956.0	0.33384	Y
3	IC 410-388102/15	1.0	0.307307	10.0	1790586.0	0.307307	Y
4	IC 410-388102/16	2.0	0.60532	10.0	1802566.0	0.30266	Y
5	IC 410-388102/17	5.0	1.426218	10.0	1860774.0	0.285244	Y
6	ICIS 410-388102/18	10.0	2.931003	10.0	1807671.0	0.2931	Y
7	IC 410-388102/19	25.0	6.900167	10.0	1891215.0	0.276007	Y



**Calibration**

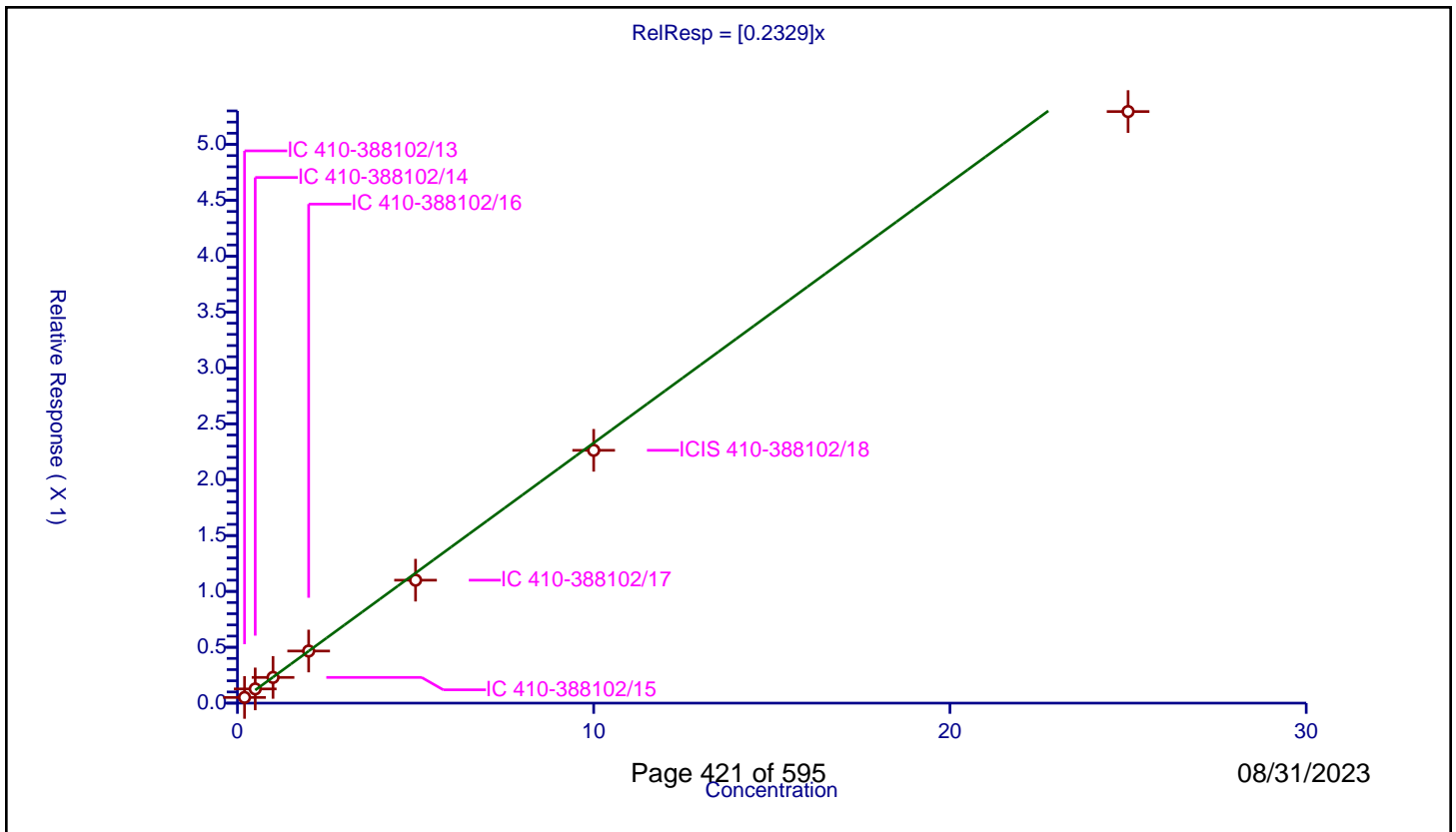
/ Chloroethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2329

Error Coefficients	
Standard Error:	451000
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.050878	10.0	1795291.0	0.254388	Y
2	IC 410-388102/14	0.5	0.127078	10.0	1753956.0	0.254157	Y
3	IC 410-388102/15	1.0	0.23017	10.0	1790586.0	0.23017	Y
4	IC 410-388102/16	2.0	0.466352	10.0	1802566.0	0.233176	Y
5	IC 410-388102/17	5.0	1.100381	10.0	1860774.0	0.220076	Y
6	ICIS 410-388102/18	10.0	2.262403	10.0	1807671.0	0.22624	Y
7	IC 410-388102/19	25.0	5.294105	10.0	1891215.0	0.211764	Y



Calibration

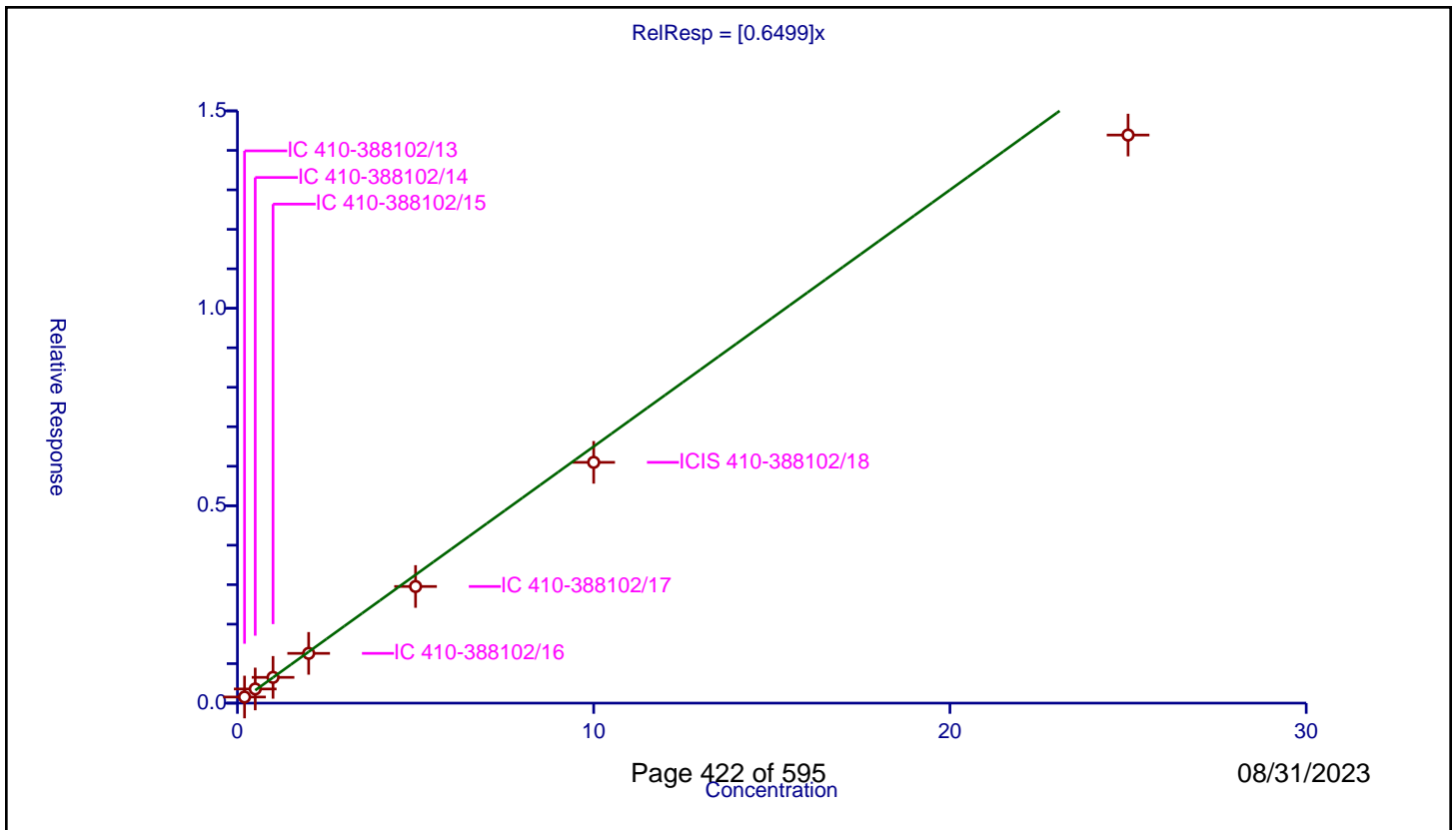
/ Dichlorofluoromethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.6499

Error Coefficients	
Standard Error:	1220000
Relative Standard Error:	11.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.154565	10.0	1795291.0	0.772827	Y
2	IC 410-388102/14	0.5	0.358675	10.0	1753956.0	0.71735	Y
3	IC 410-388102/15	1.0	0.652943	10.0	1790586.0	0.652943	Y
4	IC 410-388102/16	2.0	1.260431	10.0	1802566.0	0.630215	Y
5	IC 410-388102/17	5.0	2.954093	10.0	1860774.0	0.590819	Y
6	ICIS 410-388102/18	10.0	6.098593	10.0	1807671.0	0.609859	Y
7	IC 410-388102/19	25.0	14.388073	10.0	1891215.0	0.575523	Y



Calibration

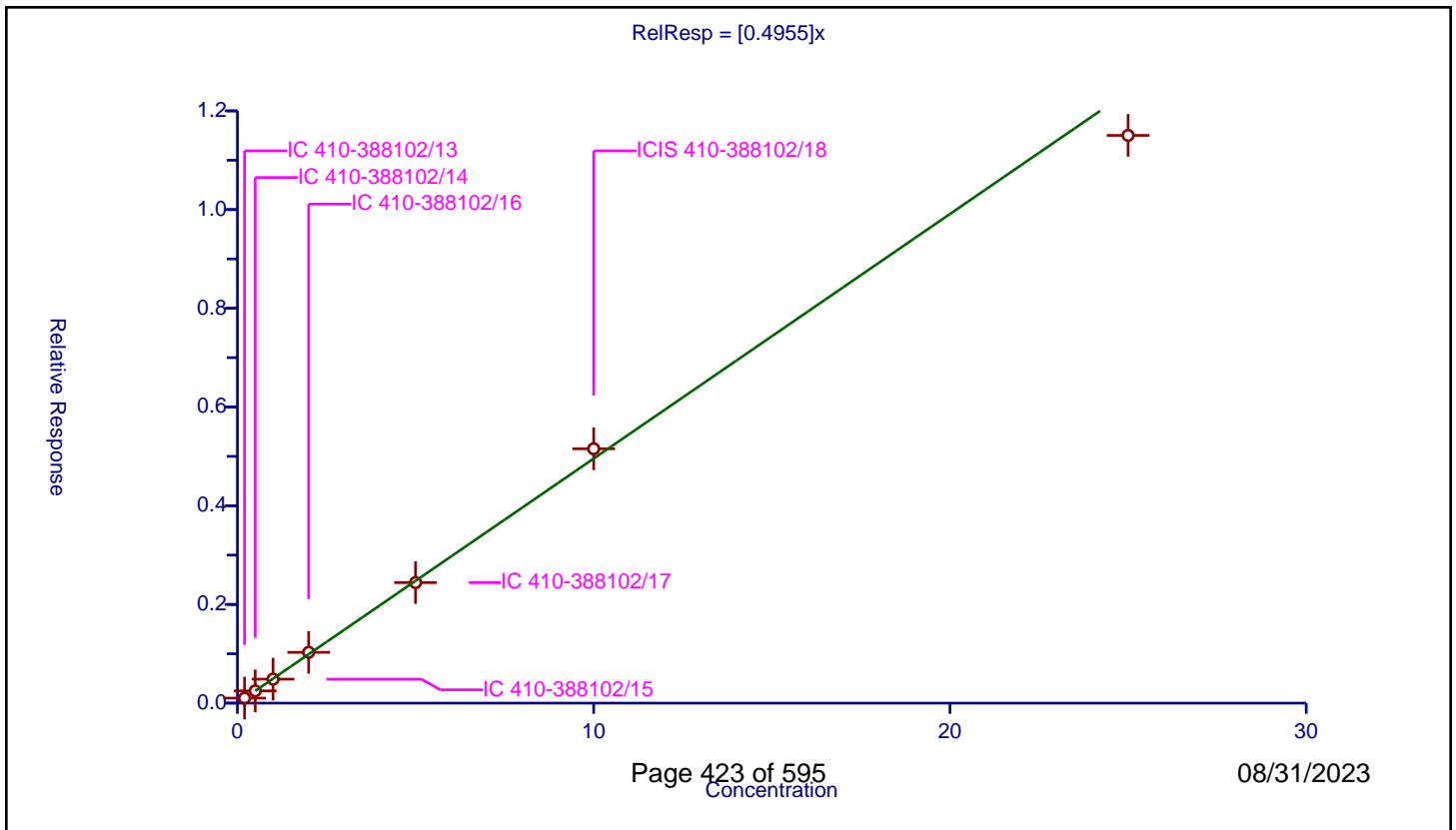
/ Trichlorofluoromethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4955

Error Coefficients	
Standard Error:	988000
Relative Standard Error:	3.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.101465	10.0	1795291.0	0.507327	Y
2	IC 410-388102/14	0.5	0.248313	10.0	1753956.0	0.496626	Y
3	IC 410-388102/15	1.0	0.486092	10.0	1790586.0	0.486092	Y
4	IC 410-388102/16	2.0	1.029582	10.0	1802566.0	0.514791	Y
5	IC 410-388102/17	5.0	2.441935	10.0	1860774.0	0.488387	Y
6	ICIS 410-388102/18	10.0	5.153333	10.0	1807671.0	0.515333	Y
7	IC 410-388102/19	25.0	11.503436	10.0	1891215.0	0.460137	Y



**Calibration**

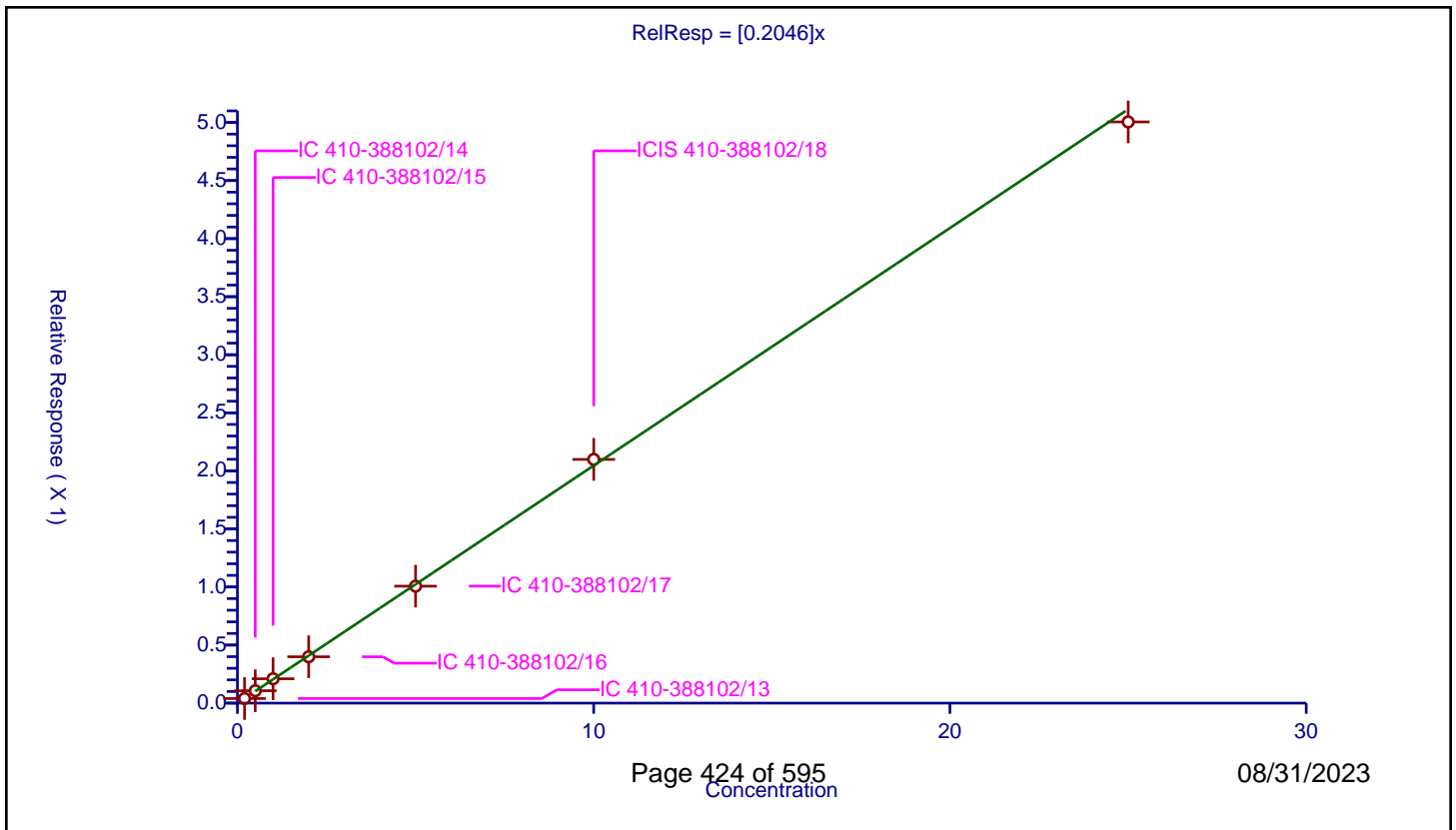
/ Ethyl ether

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2046

Error Coefficients	
Standard Error:	425000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.200027	0.039526	10.0	1795291.0	0.197601	Y
2	IC 410-388102/14	0.500068	0.106838	10.0	1753956.0	0.213648	Y
3	IC 410-388102/15	1.000135	0.209725	10.0	1790586.0	0.209696	Y
4	IC 410-388102/16	2.00027	0.399159	10.0	1802566.0	0.199552	Y
5	IC 410-388102/17	5.000676	1.007162	10.0	1860774.0	0.201405	Y
6	ICIS 410-388102/18	10.001352	2.098761	10.0	1807671.0	0.209848	Y
7	IC 410-388102/19	25.00338	5.005052	10.0	1891215.0	0.200175	Y





Calibration

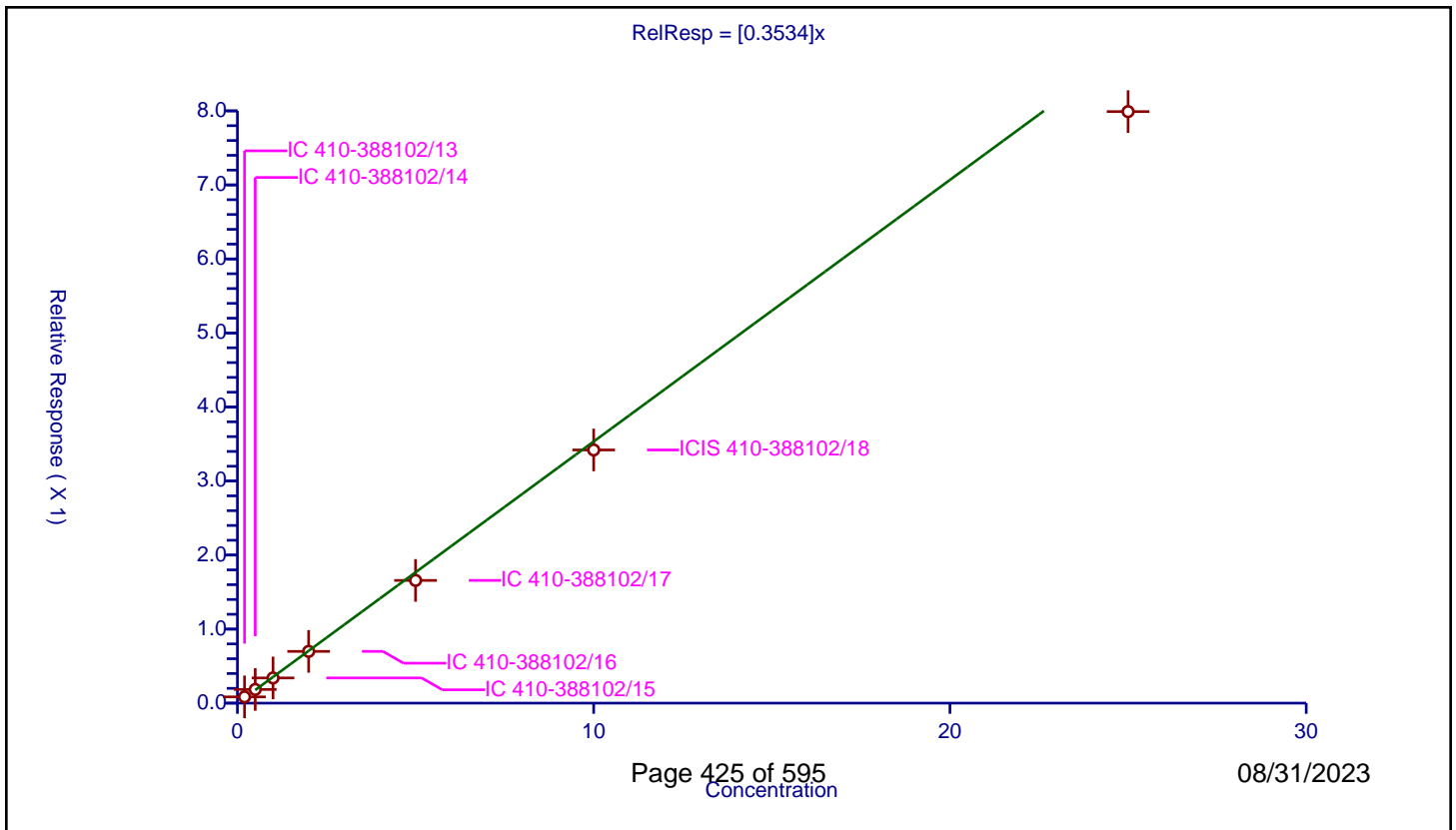
/ 1,2-Dichloro-1,1,2-trifluoroethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3534

Error Coefficients	
Standard Error:	681000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.08436	10.0	1795291.0	0.421798	Y
2	IC 410-388102/14	0.5	0.184651	10.0	1753956.0	0.369302	Y
3	IC 410-388102/15	1.0	0.340073	10.0	1790586.0	0.340073	Y
4	IC 410-388102/16	2.0	0.698704	10.0	1802566.0	0.349352	Y
5	IC 410-388102/17	5.0	1.657724	10.0	1860774.0	0.331545	Y
6	ICIS 410-388102/18	10.0	3.419887	10.0	1807671.0	0.341989	Y
7	IC 410-388102/19	25.0	7.99035	10.0	1891215.0	0.319614	Y



**Calibration**

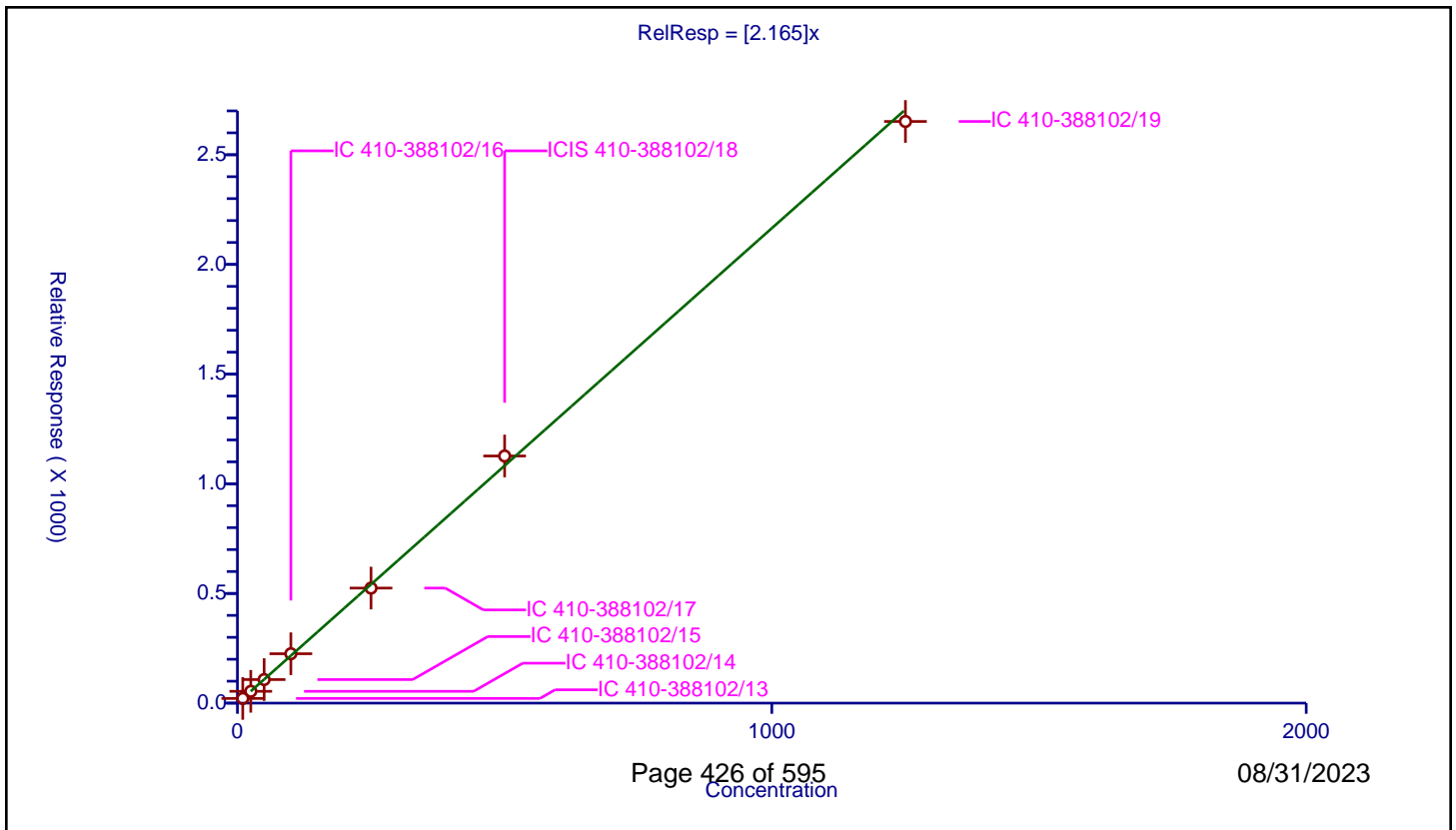
/ Acrolein

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.165

Error Coefficients	
Standard Error:	3220000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	10.000333	21.302708	50.0	116680.0	2.1302	Y
2	IC 410-388102/14	25.000833	53.851267	50.0	132398.0	2.153979	Y
3	IC 410-388102/15	50.001667	107.377111	50.0	133555.0	2.147471	Y
4	IC 410-388102/16	100.003333	225.13116	50.0	127135.0	2.251237	Y
5	IC 410-388102/17	250.008333	524.465777	50.0	139221.0	2.097793	Y
6	ICIS 410-388102/18	500.016666	1126.686676	50.0	130775.0	2.253298	Y
7	IC 410-388102/19	1250.041665	2651.77597	50.0	134884.0	2.12135	Y



Calibration

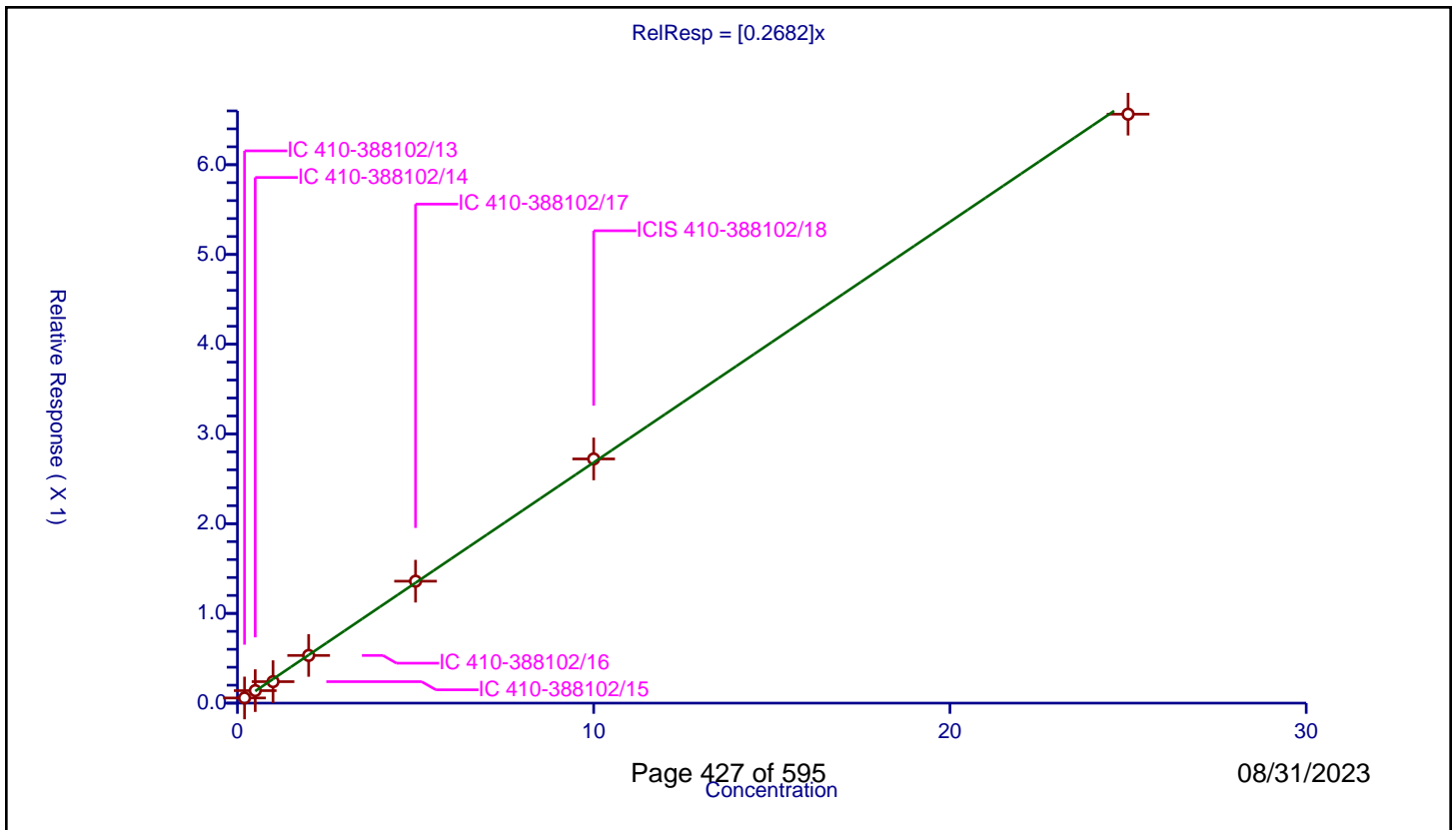
/ 1,1-Dichloroethene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2682

Error Coefficients	
Standard Error:	557000
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 410-388102/13	0.2	0.057372	10.0	1795291.0	0.286862	Y
2	IC 410-388102/14	0.5	0.139399	10.0	1753956.0	0.278798	Y
3	IC 410-388102/15	1.0	0.239503	10.0	1790586.0	0.239503	Y
4	IC 410-388102/16	2.0	0.53142	10.0	1802566.0	0.26571	Y
5	IC 410-388102/17	5.0	1.358859	10.0	1860774.0	0.271772	Y
6	ICIS 410-388102/18	10.0	2.721292	10.0	1807671.0	0.272129	Y
7	IC 410-388102/19	25.0	6.563548	10.0	1891215.0	0.262542	Y



**Calibration**

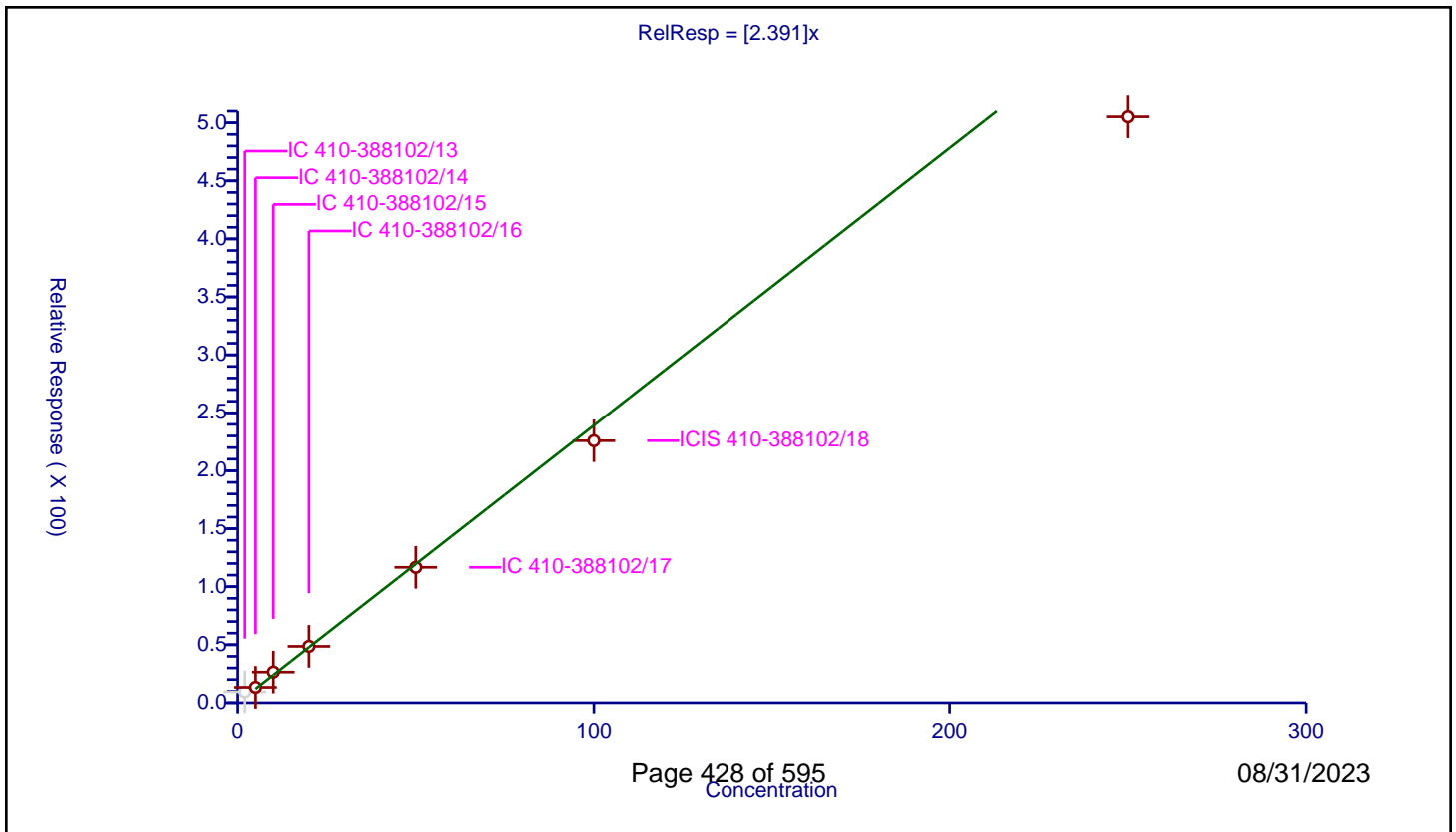
/ Acetone

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.391

Error Coefficients	
Standard Error:	683000
Relative Standard Error:	10.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	2.0	9.457919	50.0	116680.0	4.72896	N
2	IC 410-388102/14	5.0	13.28872	50.0	132398.0	2.657744	Y
3	IC 410-388102/15	10.0	26.462506	50.0	133555.0	2.646251	Y
4	IC 410-388102/16	20.0	48.601487	50.0	127135.0	2.430074	Y
5	IC 410-388102/17	50.0	116.735981	50.0	139221.0	2.33472	Y
6	ICIS 410-388102/18	100.0	225.93118	50.0	130775.0	2.259312	Y
7	IC 410-388102/19	250.0	505.214481	50.0	134884.0	2.020858	Y



Calibration

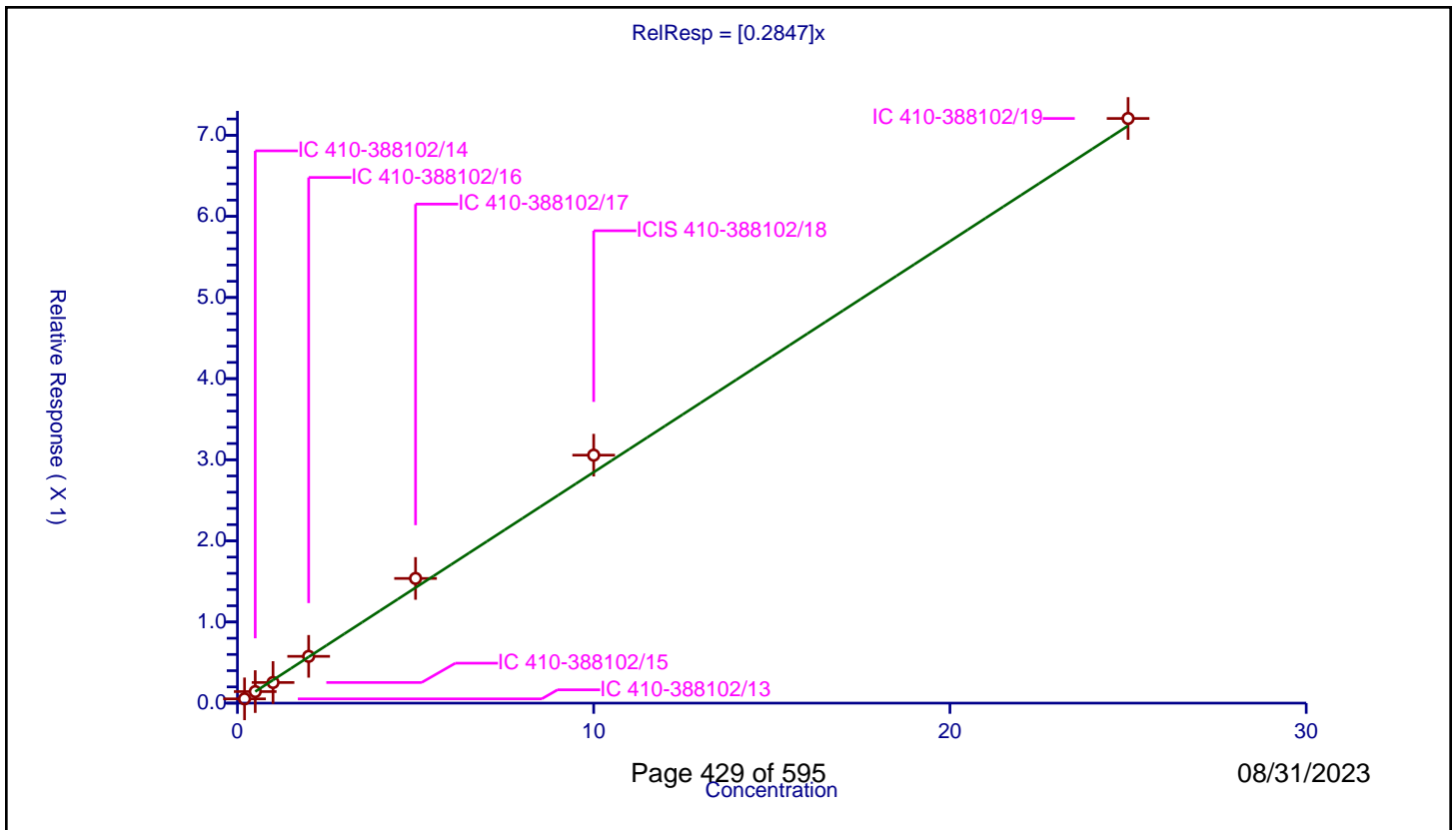
/ 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2847

Error Coefficients	
Standard Error:	613000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.05276	10.0	1795291.0	0.263801	Y
2	IC 410-388102/14	0.5	0.142421	10.0	1753956.0	0.284842	Y
3	IC 410-388102/15	1.0	0.254313	10.0	1790586.0	0.254313	Y
4	IC 410-388102/16	2.0	0.576744	10.0	1802566.0	0.288372	Y
5	IC 410-388102/17	5.0	1.536936	10.0	1860774.0	0.307387	Y
6	ICIS 410-388102/18	10.0	3.05638	10.0	1807671.0	0.305638	Y
7	IC 410-388102/19	25.0	7.206388	10.0	1891215.0	0.288256	Y



**Calibration**

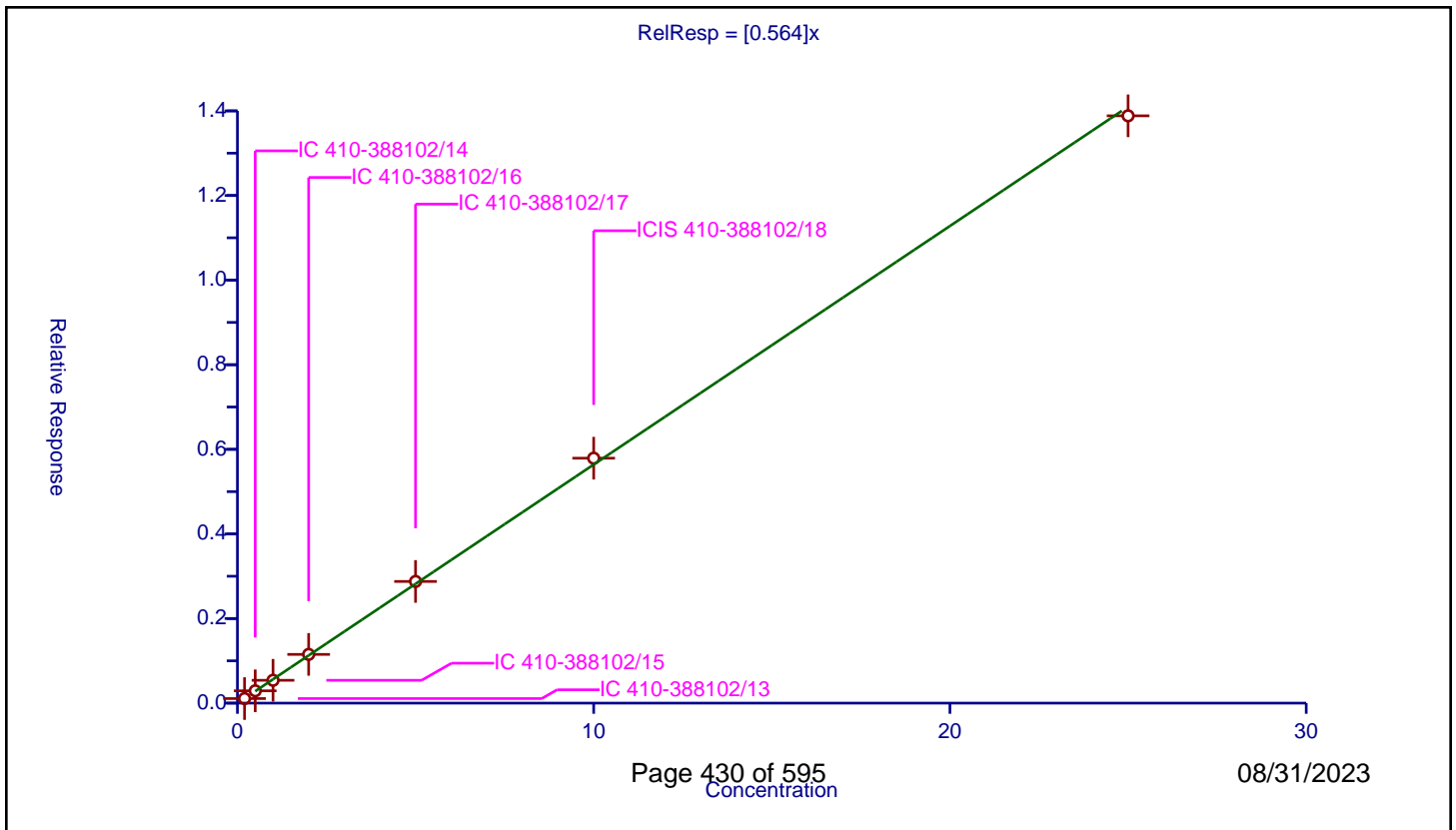
/ Iodomethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.564

Error Coefficients	
Standard Error:	1180000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.108049	10.0	1795291.0	0.540247	Y
2	IC 410-388102/14	0.5	0.291062	10.0	1753956.0	0.582124	Y
3	IC 410-388102/15	1.0	0.539628	10.0	1790586.0	0.539628	Y
4	IC 410-388102/16	2.0	1.152146	10.0	1802566.0	0.576073	Y
5	IC 410-388102/17	5.0	2.876378	10.0	1860774.0	0.575276	Y
6	ICIS 410-388102/18	10.0	5.790091	10.0	1807671.0	0.579009	Y
7	IC 410-388102/19	25.0	13.88325	10.0	1891215.0	0.55533	Y



**Calibration**

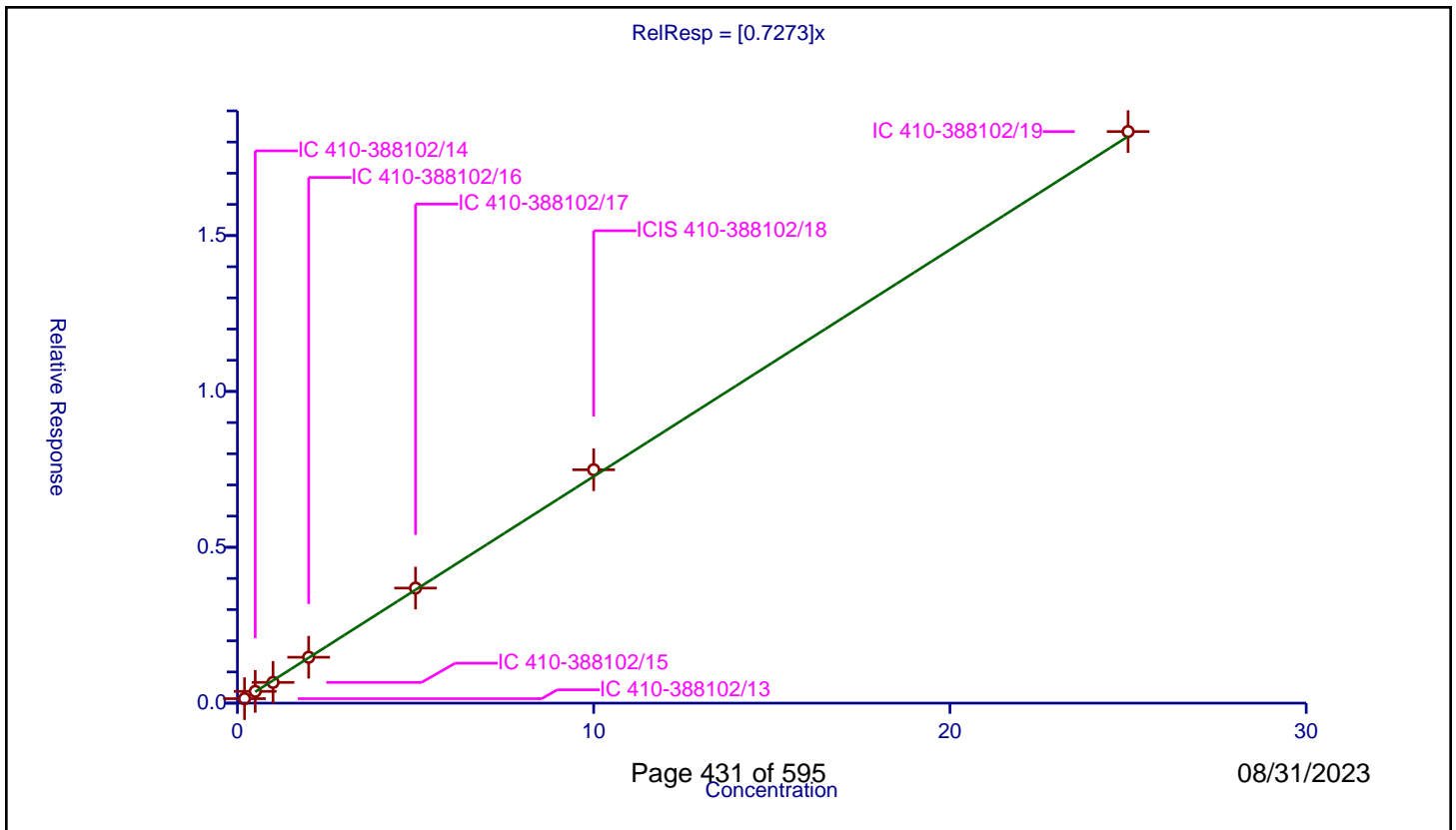
/ Carbon disulfide

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7273

Error Coefficients	
Standard Error:	1550000
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 410-388102/13	0.2	0.14298	10.0	1795291.0	0.714898	Y
2	IC 410-388102/14	0.5	0.377256	10.0	1753956.0	0.754512	Y
3	IC 410-388102/15	1.0	0.665363	10.0	1790586.0	0.665363	Y
4	IC 410-388102/16	2.0	1.471419	10.0	1802566.0	0.73571	Y
5	IC 410-388102/17	5.0	3.690394	10.0	1860774.0	0.738079	Y
6	ICIS 410-388102/18	10.0	7.487463	10.0	1807671.0	0.748746	Y
7	IC 410-388102/19	25.0	18.336197	10.0	1891215.0	0.733448	Y



**Calibration**

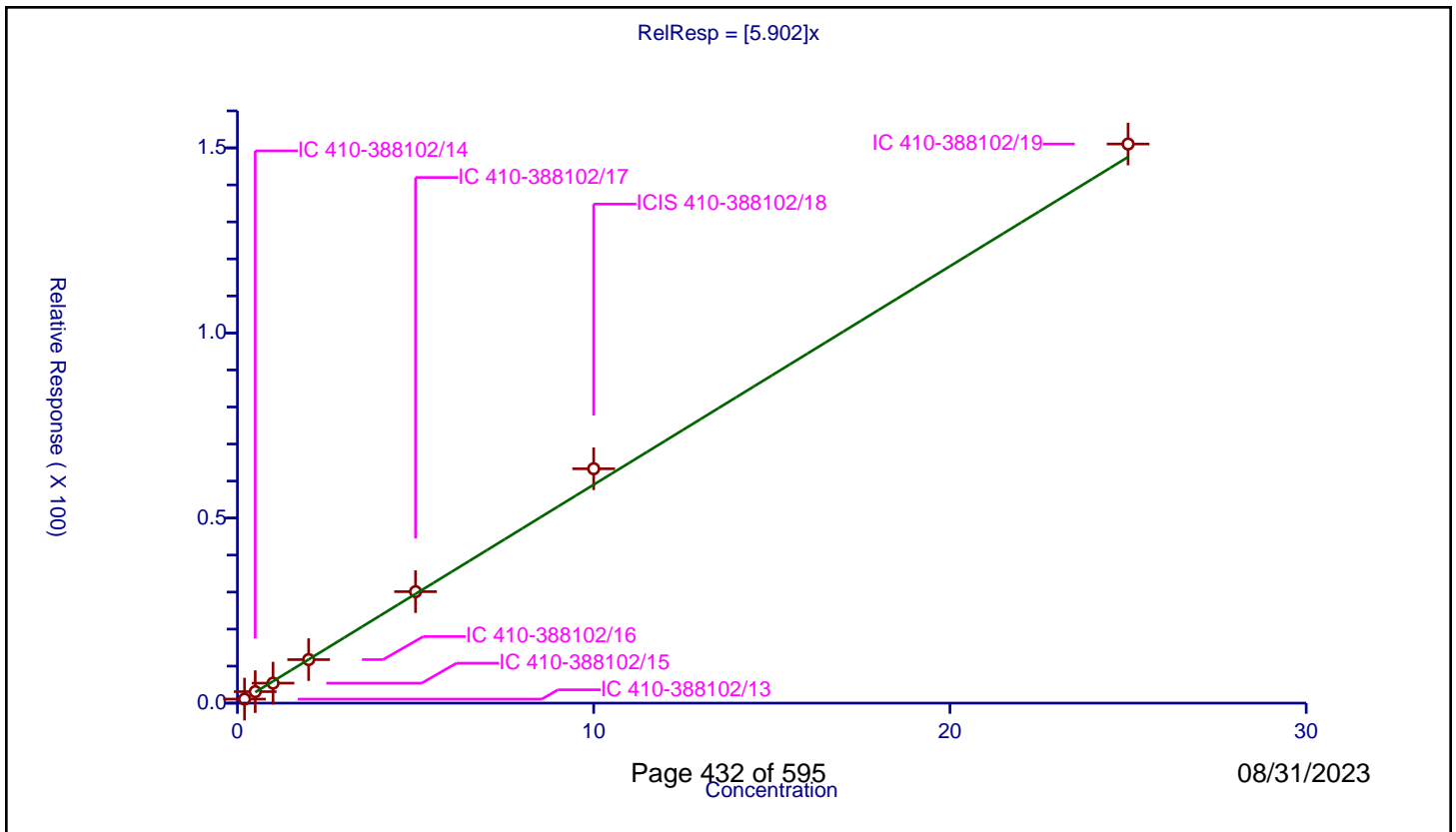
**/ Methyl acetate**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.902

Error Coefficients	
Standard Error:	183000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	1.087161	50.0	116680.0	5.435807	Y
2	IC 410-388102/14	0.5	3.103144	50.0	132398.0	6.206287	Y
3	IC 410-388102/15	1.0	5.397776	50.0	133555.0	5.397776	Y
4	IC 410-388102/16	2.0	11.754434	50.0	127135.0	5.877217	Y
5	IC 410-388102/17	5.0	30.113632	50.0	139221.0	6.022726	Y
6	ICIS 410-388102/18	10.0	63.319442	50.0	130775.0	6.331944	Y
7	IC 410-388102/19	25.0	151.046455	50.0	134884.0	6.041858	Y





Calibration

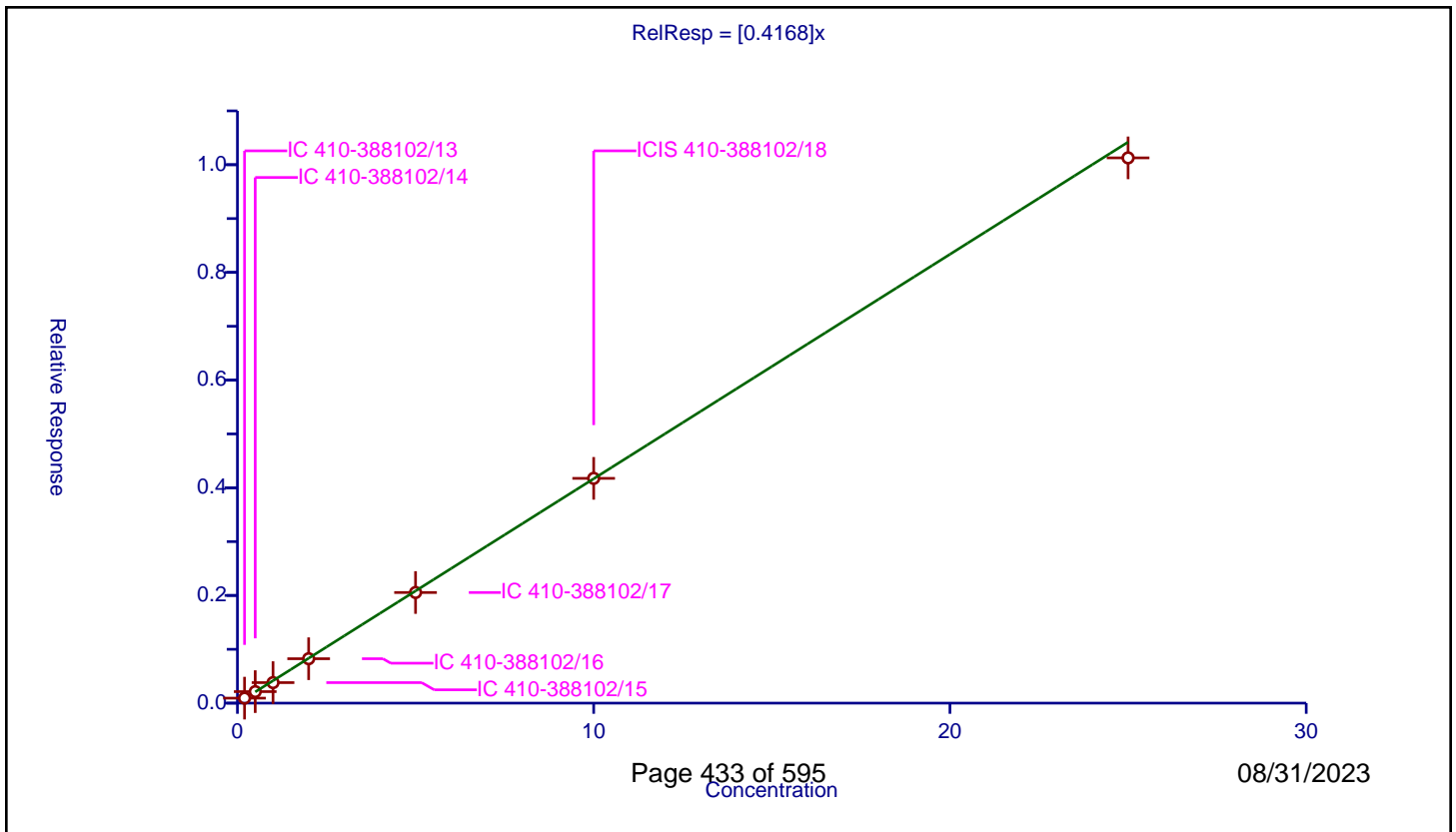
/ 3-Chloro-1-propene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4168

Error Coefficients	
Standard Error:	858000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.092525	10.0	1795291.0	0.462627	Y
2	IC 410-388102/14	0.5	0.213996	10.0	1753956.0	0.427992	Y
3	IC 410-388102/15	1.0	0.381099	10.0	1790586.0	0.381099	Y
4	IC 410-388102/16	2.0	0.824935	10.0	1802566.0	0.412468	Y
5	IC 410-388102/17	5.0	2.05486	10.0	1860774.0	0.410972	Y
6	ICIS 410-388102/18	10.0	4.174808	10.0	1807671.0	0.417481	Y
7	IC 410-388102/19	25.0	10.127167	10.0	1891215.0	0.405087	Y



**Calibration**

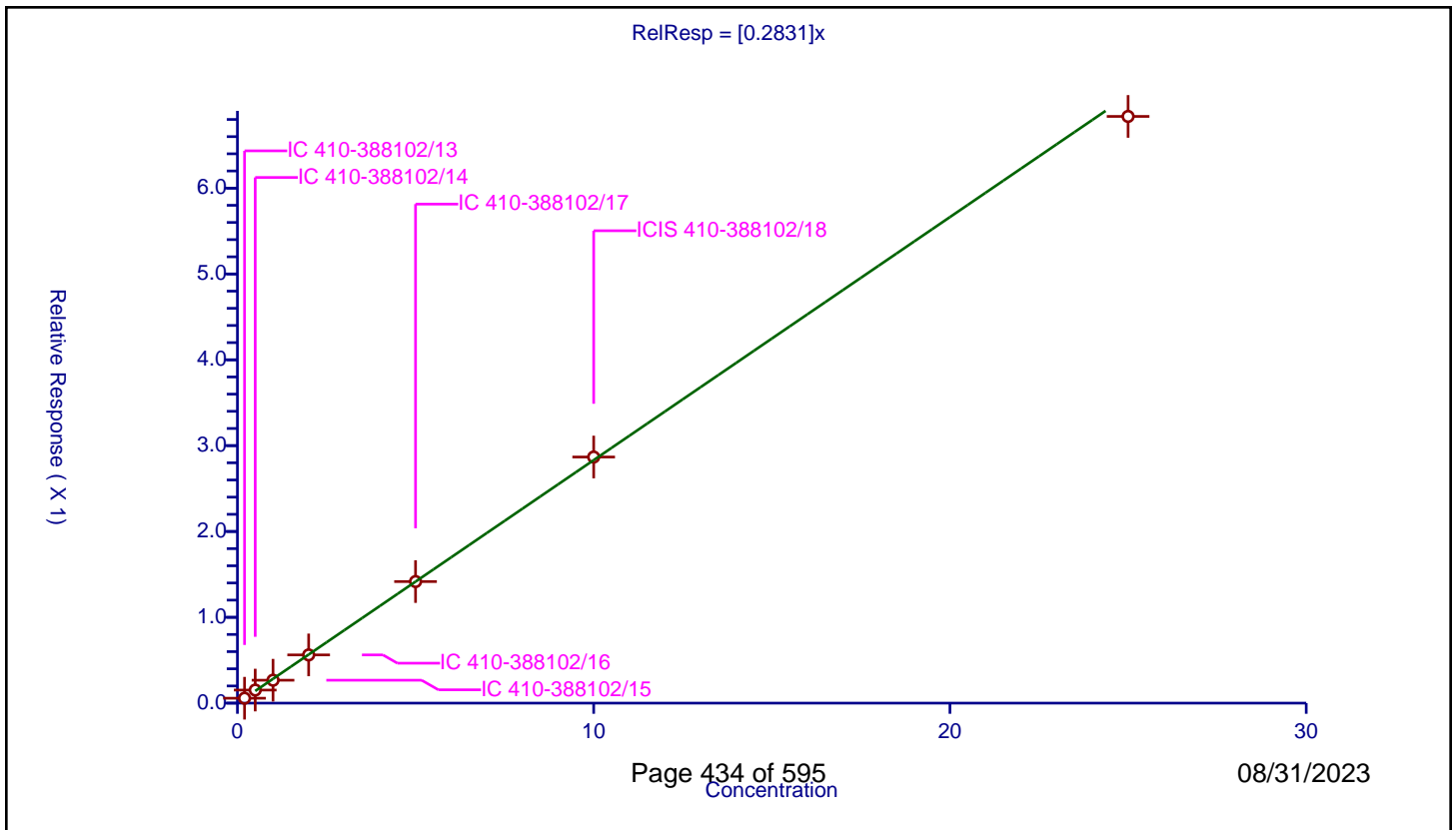
/ Methylene Chloride

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2831

Error Coefficients	
Standard Error:	581000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.057272	10.0	1795291.0	0.28636	Y
2	IC 410-388102/14	0.5	0.152256	10.0	1753956.0	0.304512	Y
3	IC 410-388102/15	1.0	0.26689	10.0	1790586.0	0.26689	Y
4	IC 410-388102/16	2.0	0.561699	10.0	1802566.0	0.28085	Y
5	IC 410-388102/17	5.0	1.416325	10.0	1860774.0	0.283265	Y
6	ICIS 410-388102/18	10.0	2.867203	10.0	1807671.0	0.28672	Y
7	IC 410-388102/19	25.0	6.835347	10.0	1891215.0	0.273414	Y



**Calibration**

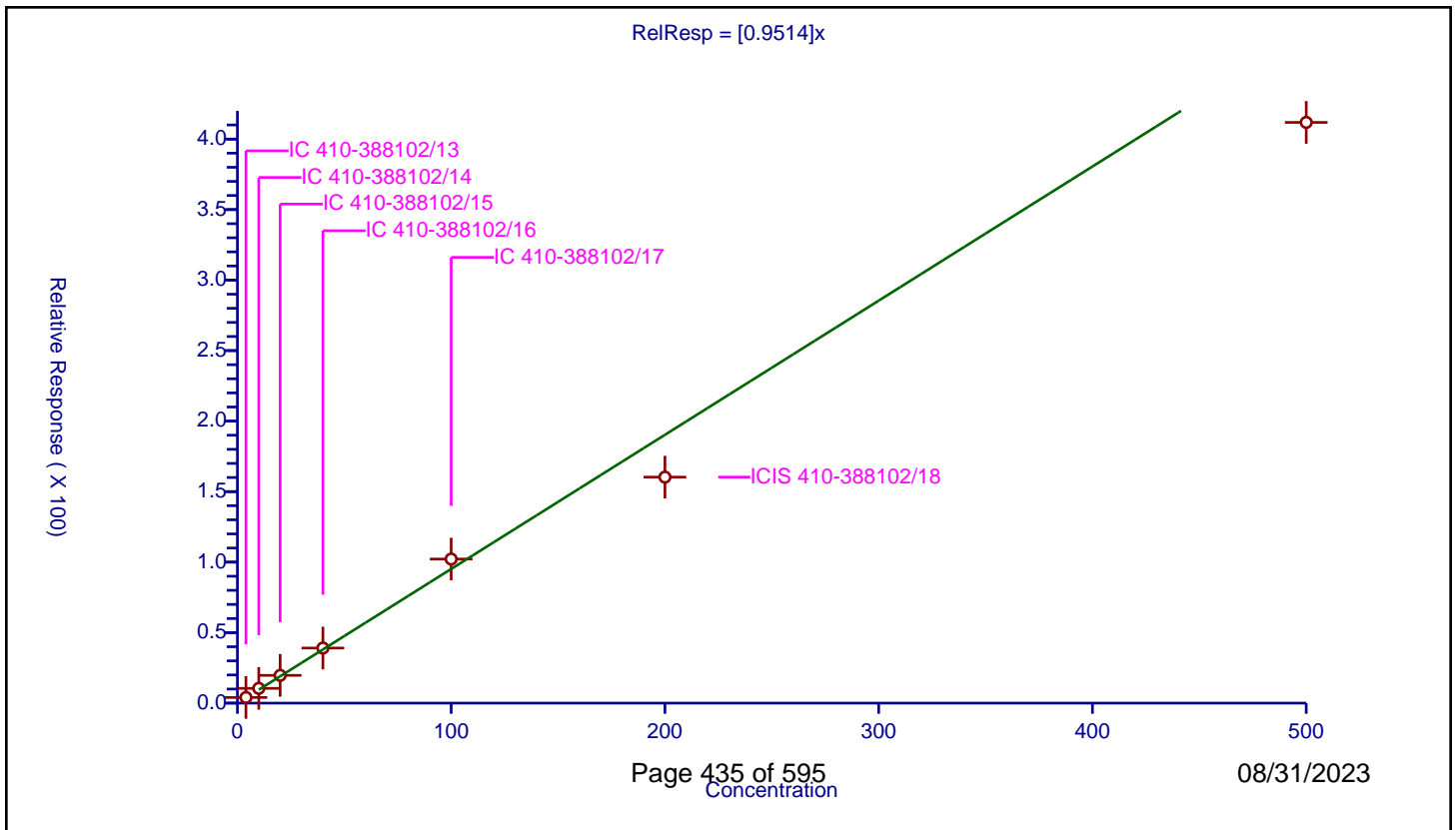
**/ 2-Methyl-2-propanol**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9514

Error Coefficients	
Standard Error:	501000
Relative Standard Error:	10.3
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	4.0	4.016541	50.0	116680.0	1.004135	Y
2	IC 410-388102/14	10.0	10.478633	50.0	132398.0	1.047863	Y
3	IC 410-388102/15	20.0	19.681405	50.0	133555.0	0.98407	Y
4	IC 410-388102/16	40.0	39.078539	50.0	127135.0	0.976963	Y
5	IC 410-388102/17	100.0	102.172804	50.0	139221.0	1.021728	Y
6	ICIS 410-388102/18	200.0	160.268782	50.0	130775.0	0.801344	Y
7	IC 410-388102/19	500.0	411.823863	50.0	134884.0	0.823648	Y



**Calibration**

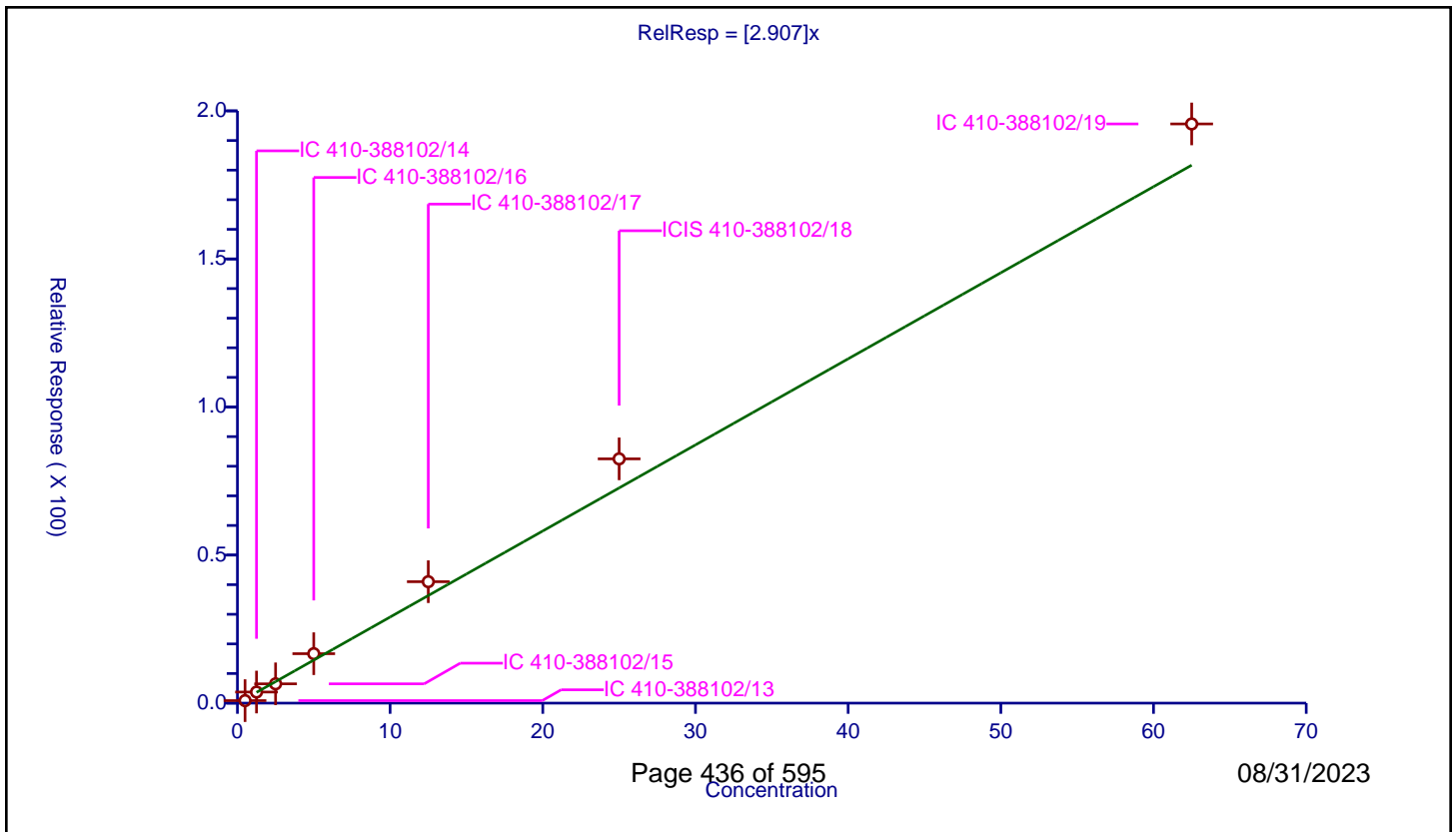
/ Acrylonitrile

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.907

Error Coefficients	
Standard Error:	238000
Relative Standard Error:	20.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.956

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.5	0.84676	50.0	116680.0	1.693521	Y
2	IC 410-388102/14	1.25	3.747791	50.0	132398.0	2.998233	Y
3	IC 410-388102/15	2.5	6.512673	50.0	133555.0	2.605069	Y
4	IC 410-388102/16	5.0	16.701931	50.0	127135.0	3.340386	Y
5	IC 410-388102/17	12.5	41.009259	50.0	139221.0	3.280741	Y
6	ICIS 410-388102/18	25.0	82.487861	50.0	130775.0	3.299514	Y
7	IC 410-388102/19	62.5	195.594733	50.0	134884.0	3.129516	Y



Calibration

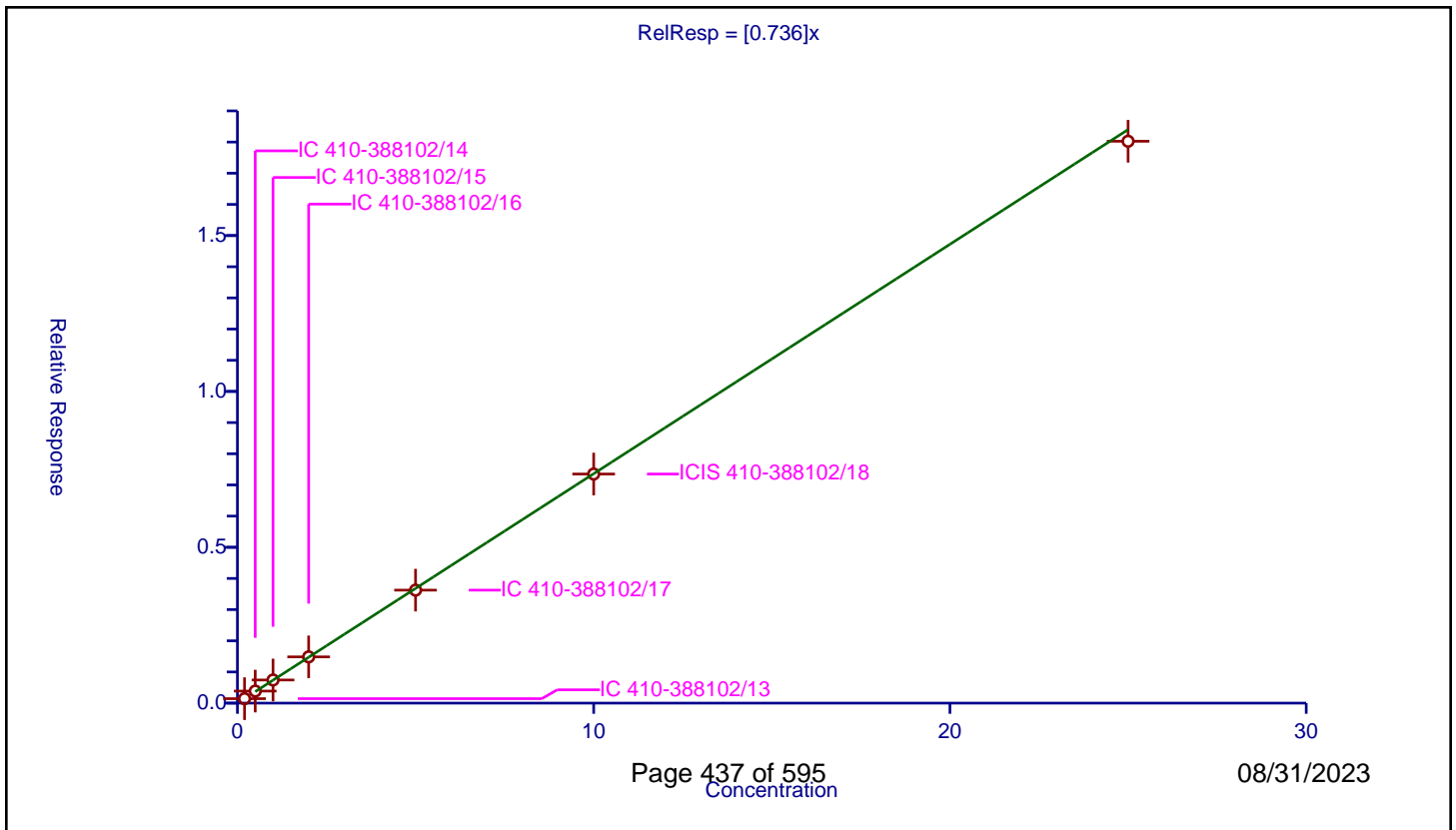
/ Methyl tert-butyl ether

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.736

Error Coefficients	
Standard Error:	1520000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.142818	10.0	1795291.0	0.71409	Y
2	IC 410-388102/14	0.5	0.386543	10.0	1753956.0	0.773087	Y
3	IC 410-388102/15	1.0	0.742165	10.0	1790586.0	0.742165	Y
4	IC 410-388102/16	2.0	1.483624	10.0	1802566.0	0.741812	Y
5	IC 410-388102/17	5.0	3.62461	10.0	1860774.0	0.724922	Y
6	ICIS 410-388102/18	10.0	7.349722	10.0	1807671.0	0.734972	Y
7	IC 410-388102/19	25.0	18.0261	10.0	1891215.0	0.721044	Y



Calibration

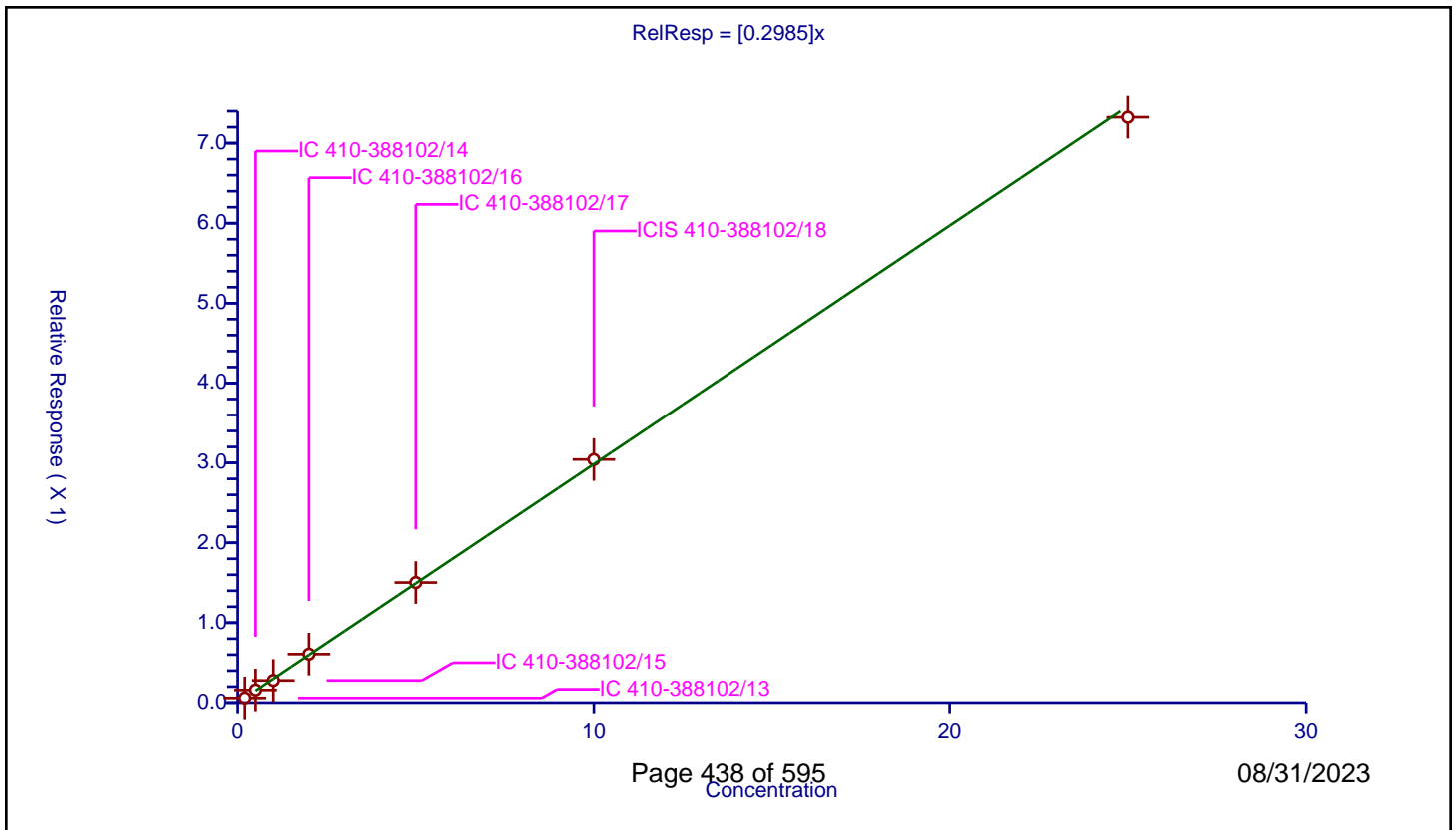
/ trans-1,2-Dichloroethene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2985

Error Coefficients	
Standard Error:	621000
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 410-388102/13	0.2	0.058865	10.0	1795291.0	0.294326	Y
2	IC 410-388102/14	0.5	0.158322	10.0	1753956.0	0.316644	Y
3	IC 410-388102/15	1.0	0.277267	10.0	1790586.0	0.277267	Y
4	IC 410-388102/16	2.0	0.606707	10.0	1802566.0	0.303354	Y
5	IC 410-388102/17	5.0	1.502681	10.0	1860774.0	0.300536	Y
6	ICIS 410-388102/18	10.0	3.042395	10.0	1807671.0	0.30424	Y
7	IC 410-388102/19	25.0	7.324625	10.0	1891215.0	0.292985	Y



Calibration

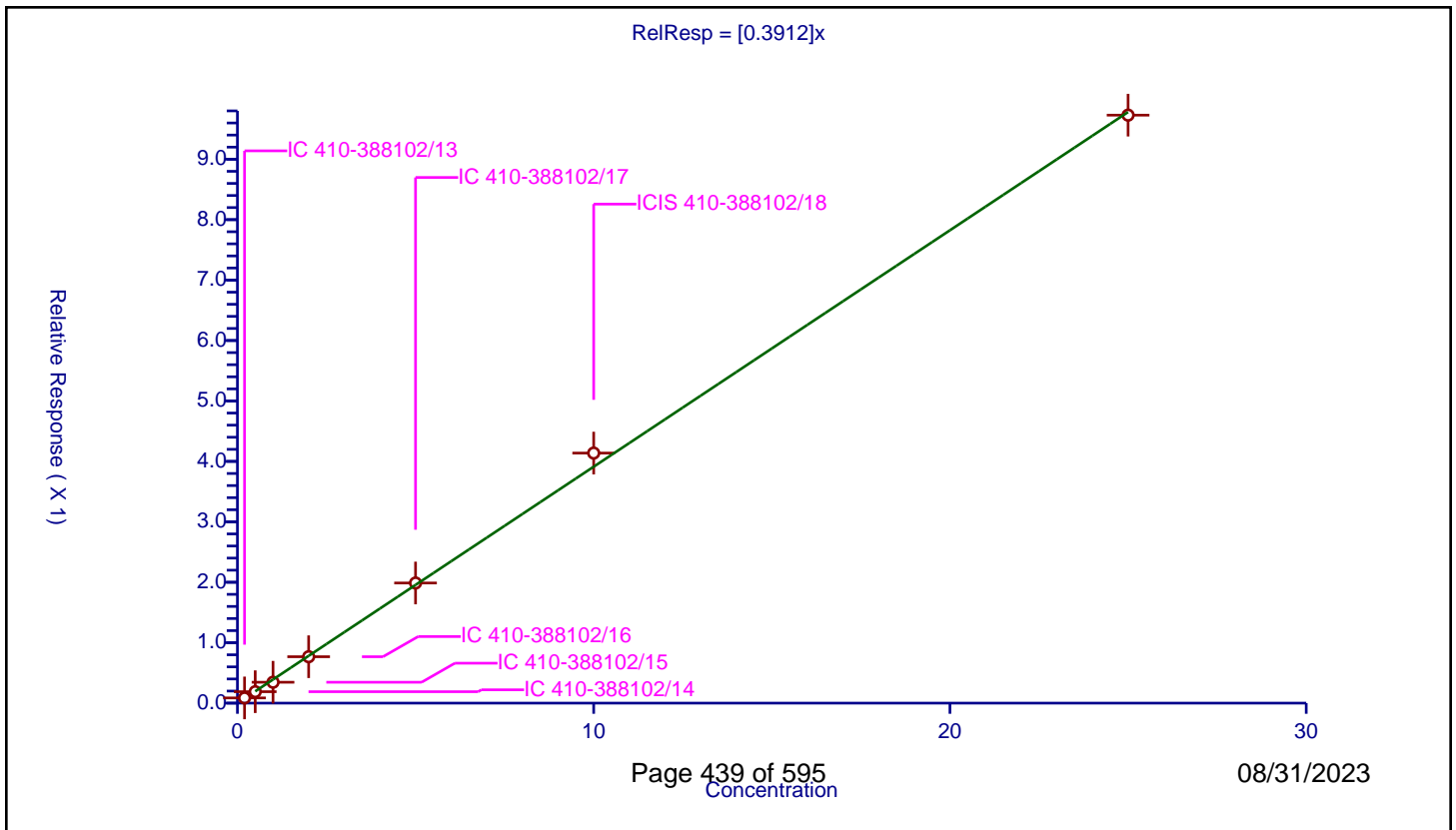
/ Hexane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3912

Error Coefficients	
Standard Error:	827000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.086042	10.0	1795291.0	0.430209	Y
2	IC 410-388102/14	0.5	0.18907	10.0	1753956.0	0.378139	Y
3	IC 410-388102/15	1.0	0.345742	10.0	1790586.0	0.345742	Y
4	IC 410-388102/16	2.0	0.767844	10.0	1802566.0	0.383922	Y
5	IC 410-388102/17	5.0	1.987942	10.0	1860774.0	0.397588	Y
6	ICIS 410-388102/18	10.0	4.137816	10.0	1807671.0	0.413782	Y
7	IC 410-388102/19	25.0	9.729613	10.0	1891215.0	0.389185	Y



Calibration

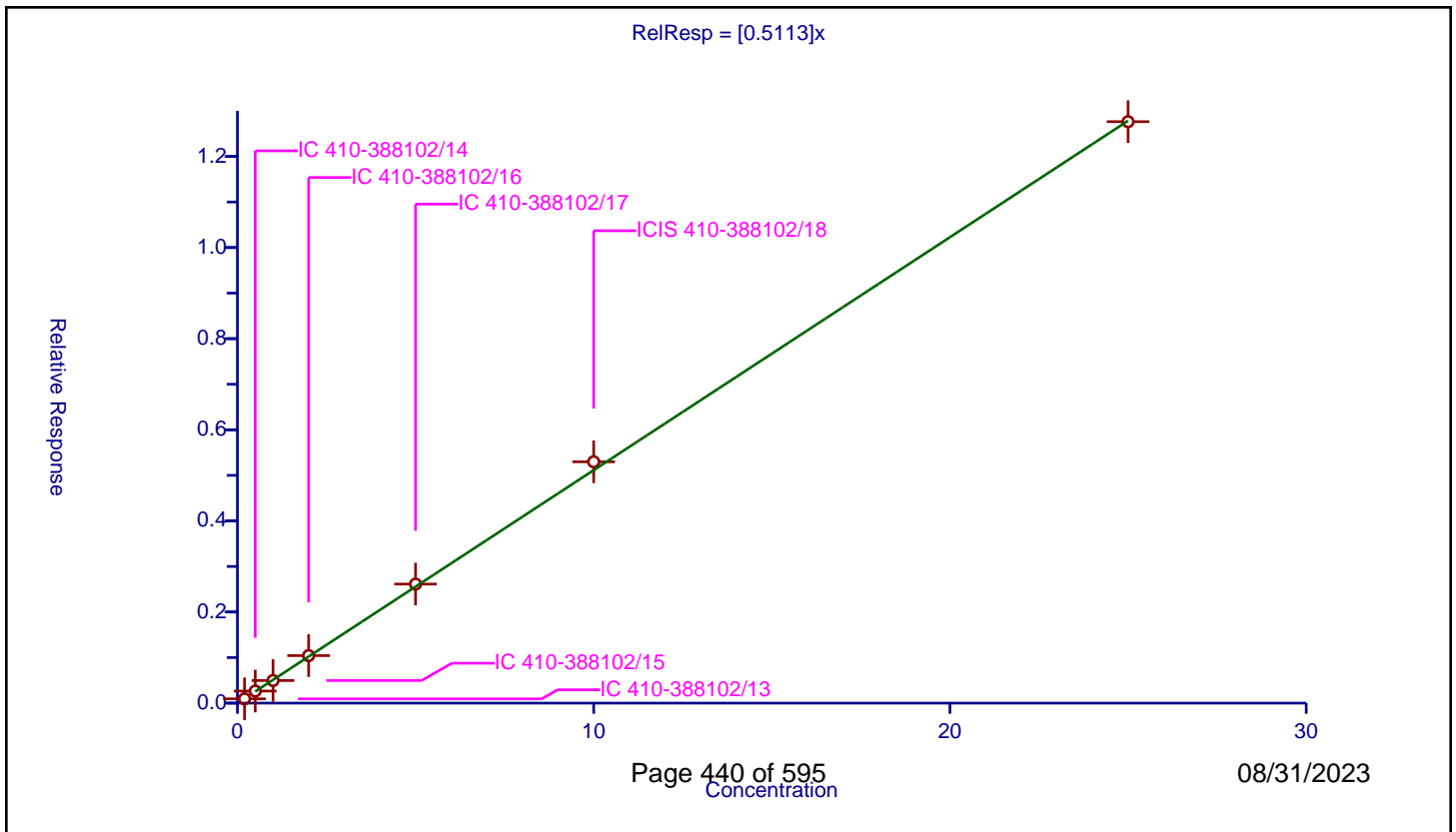
/ 1,1-Dichloroethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5113

Error Coefficients	
Standard Error:	1080000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.093656	10.0	1795291.0	0.468281	Y
2	IC 410-388102/14	0.5	0.265195	10.0	1753956.0	0.53039	Y
3	IC 410-388102/15	1.0	0.496257	10.0	1790586.0	0.496257	Y
4	IC 410-388102/16	2.0	1.043302	10.0	1802566.0	0.521651	Y
5	IC 410-388102/17	5.0	2.612698	10.0	1860774.0	0.52254	Y
6	ICIS 410-388102/18	10.0	5.297441	10.0	1807671.0	0.529744	Y
7	IC 410-388102/19	25.0	12.763351	10.0	1891215.0	0.510534	Y





Calibration

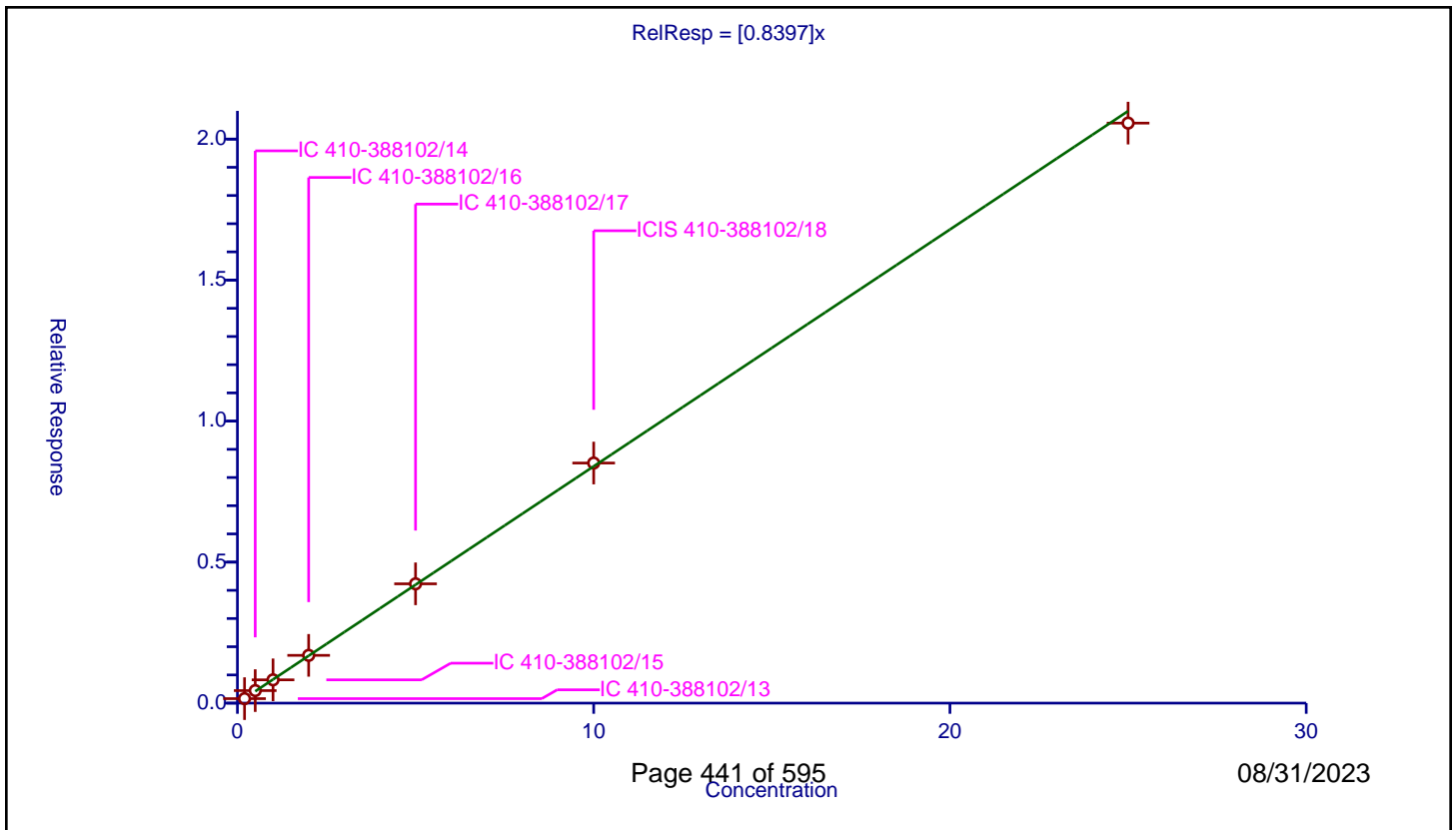
/ Isopropyl ether

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8397

Error Coefficients	
Standard Error:	1740000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.159328	10.0	1795291.0	0.79664	Y
2	IC 410-388102/14	0.5	0.444048	10.0	1753956.0	0.888095	Y
3	IC 410-388102/15	1.0	0.826305	10.0	1790586.0	0.826305	Y
4	IC 410-388102/16	2.0	1.693719	10.0	1802566.0	0.846859	Y
5	IC 410-388102/17	5.0	4.230089	10.0	1860774.0	0.846018	Y
6	ICIS 410-388102/18	10.0	8.512937	10.0	1807671.0	0.851294	Y
7	IC 410-388102/19	25.0	20.566736	10.0	1891215.0	0.822669	Y



Calibration

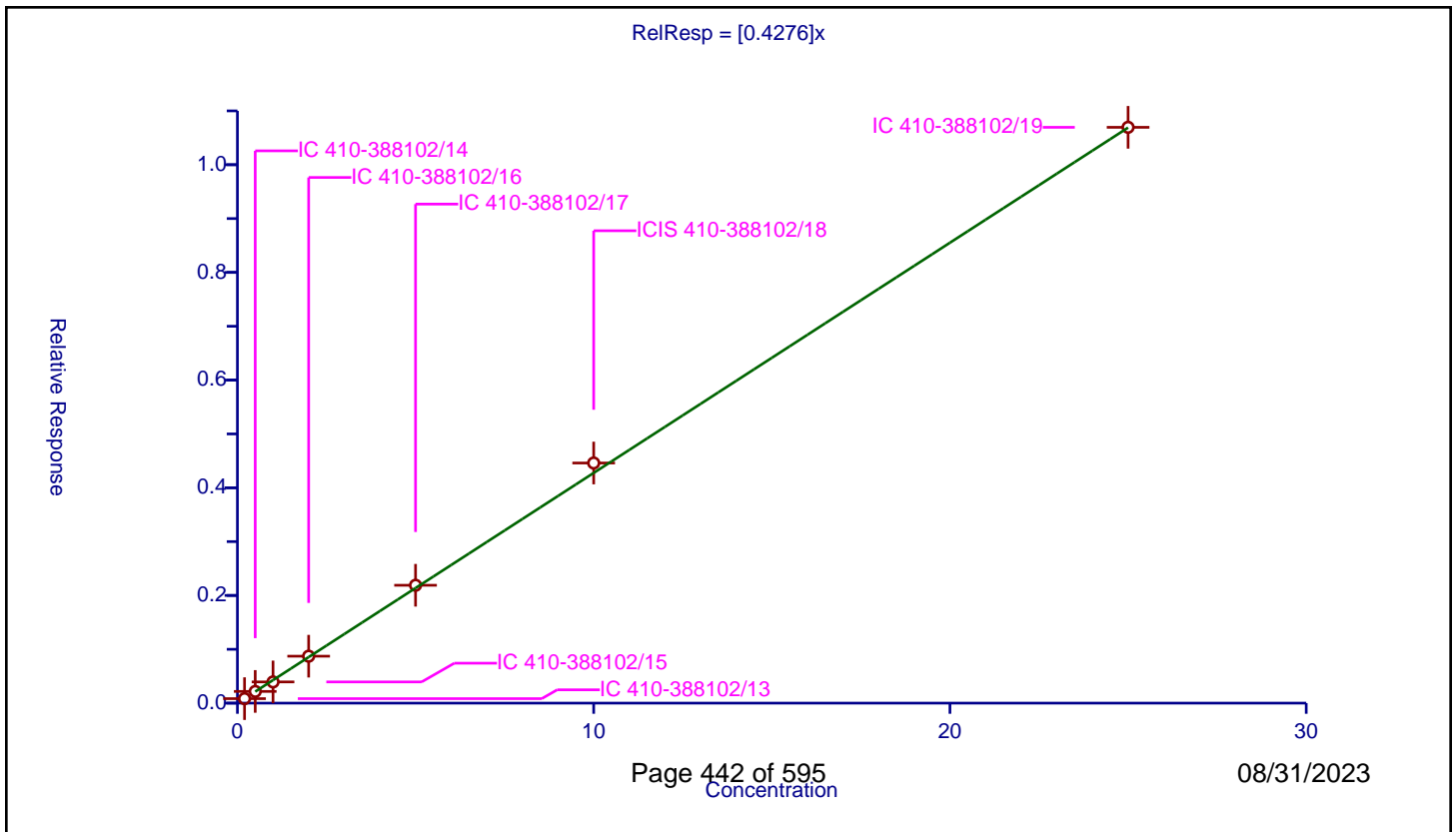
/ 2-Chloro-1,3-butadiene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4276

Error Coefficients	
Standard Error:	907000
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 410-388102/13	0.2	0.083223	10.0	1795291.0	0.416116	Y
2	IC 410-388102/14	0.5	0.217577	10.0	1753956.0	0.435153	Y
3	IC 410-388102/15	1.0	0.394	10.0	1790586.0	0.394	Y
4	IC 410-388102/16	2.0	0.871996	10.0	1802566.0	0.435998	Y
5	IC 410-388102/17	5.0	2.189213	10.0	1860774.0	0.437843	Y
6	ICIS 410-388102/18	10.0	4.459904	10.0	1807671.0	0.44599	Y
7	IC 410-388102/19	25.0	10.69495	10.0	1891215.0	0.427798	Y



**Calibration**

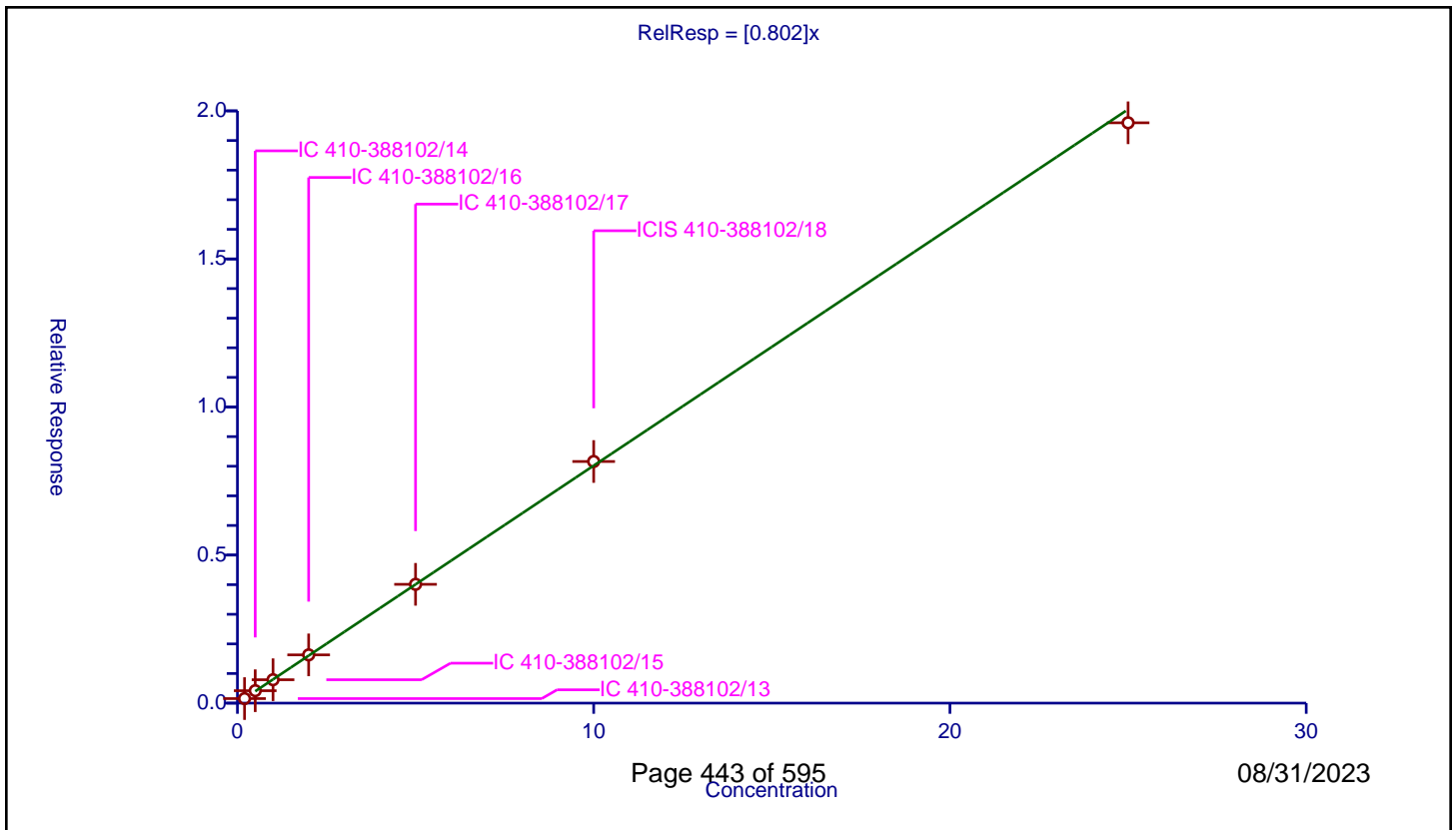
/ Tert-butyl ethyl ether

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.802

Error Coefficients	
Standard Error:	1660000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.153708	10.0	1795291.0	0.768538	Y
2	IC 410-388102/14	0.5	0.419258	10.0	1753956.0	0.838516	Y
3	IC 410-388102/15	1.0	0.790144	10.0	1790586.0	0.790144	Y
4	IC 410-388102/16	2.0	1.629682	10.0	1802566.0	0.814841	Y
5	IC 410-388102/17	5.0	4.011487	10.0	1860774.0	0.802297	Y
6	ICIS 410-388102/18	10.0	8.160119	10.0	1807671.0	0.816012	Y
7	IC 410-388102/19	25.0	19.597851	10.0	1891215.0	0.783914	Y



Calibration

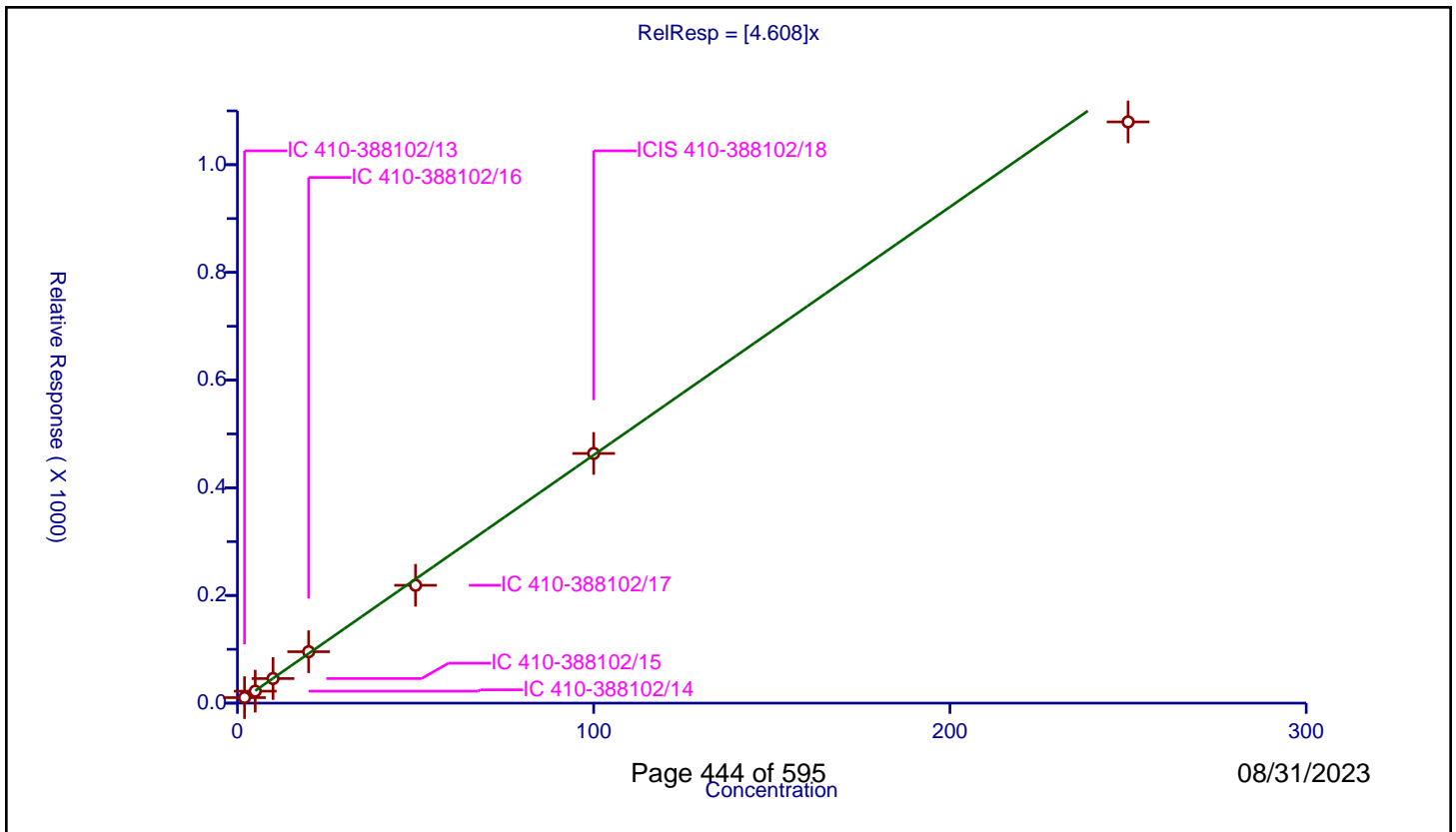
/ 2-Butanone (MEK)

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	4.608

Error Coefficients	
Standard Error:	1320000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	2.0	10.264398	50.0	116680.0	5.132199	Y
2	IC 410-388102/14	5.0	22.248826	50.0	132398.0	4.449765	Y
3	IC 410-388102/15	10.0	45.676313	50.0	133555.0	4.567631	Y
4	IC 410-388102/16	20.0	95.486294	50.0	127135.0	4.774315	Y
5	IC 410-388102/17	50.0	218.872871	50.0	139221.0	4.377457	Y
6	ICIS 410-388102/18	100.0	463.728159	50.0	130775.0	4.637282	Y
7	IC 410-388102/19	250.0	1079.521292	50.0	134884.0	4.318085	Y



Calibration

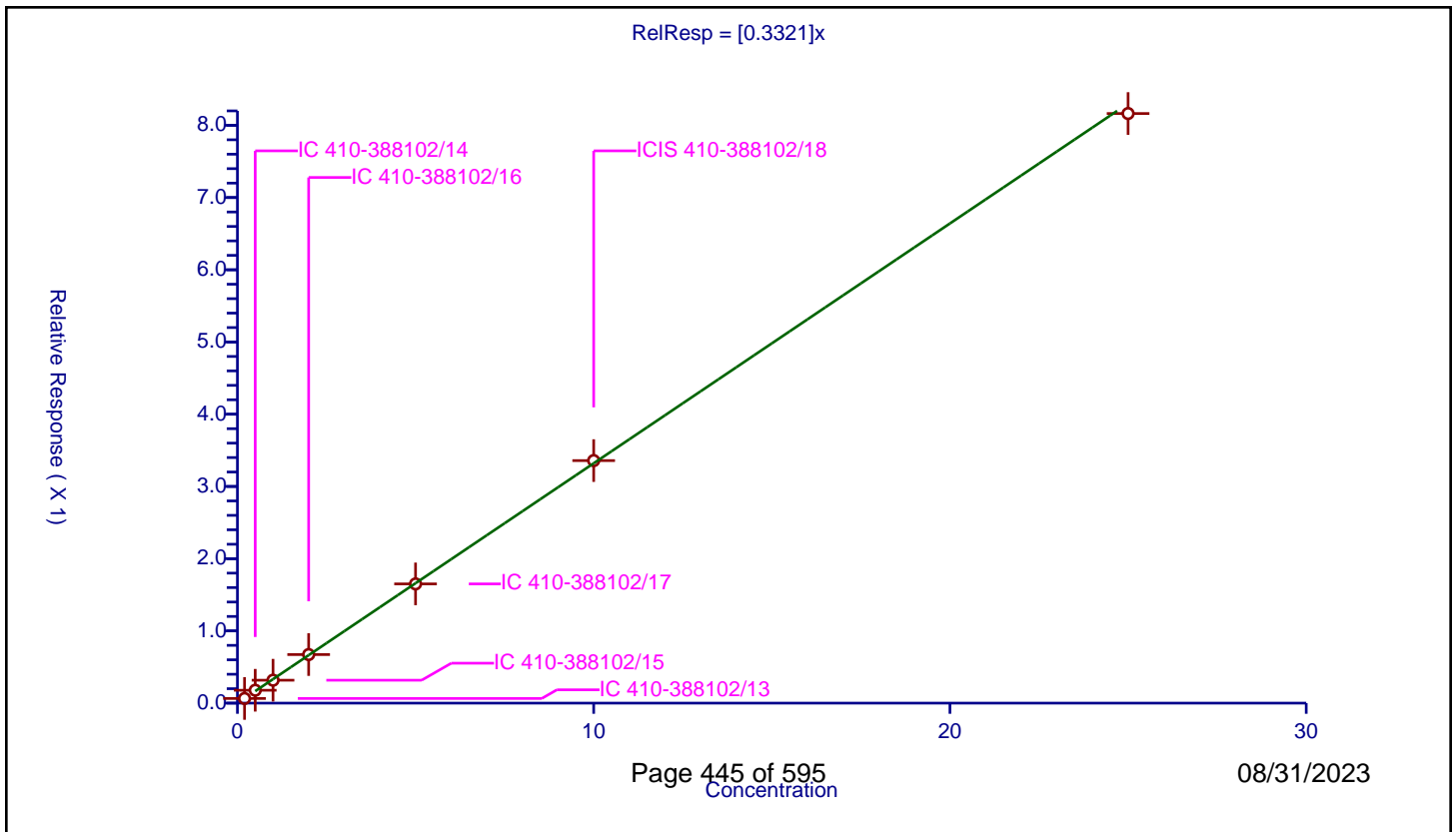
/ cis-1,2-Dichloroethene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3321

Error Coefficients	
Standard Error:	691000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.064302	10.0	1795291.0	0.321508	Y
2	IC 410-388102/14	0.5	0.17834	10.0	1753956.0	0.356679	Y
3	IC 410-388102/15	1.0	0.317494	10.0	1790586.0	0.317494	Y
4	IC 410-388102/16	2.0	0.672586	10.0	1802566.0	0.336293	Y
5	IC 410-388102/17	5.0	1.65084	10.0	1860774.0	0.330168	Y
6	ICIS 410-388102/18	10.0	3.357984	10.0	1807671.0	0.335798	Y
7	IC 410-388102/19	25.0	8.163477	10.0	1891215.0	0.326539	Y



Calibration

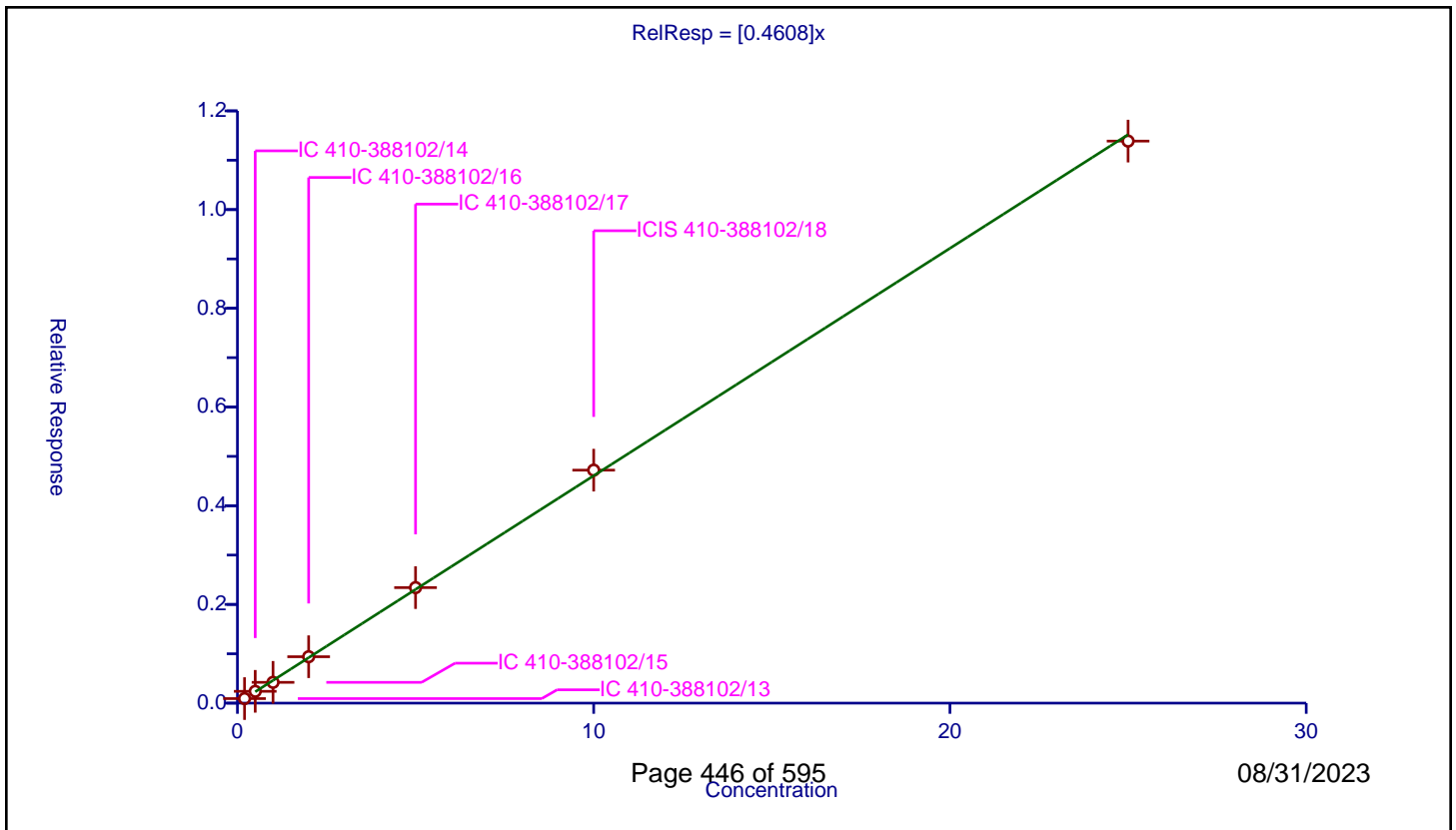
/ 2,2-Dichloropropane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4608

Error Coefficients	
Standard Error:	965000
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 410-388102/13	0.2	0.091963	10.0	1795291.0	0.459814	Y
2	IC 410-388102/14	0.5	0.239139	10.0	1753956.0	0.478279	Y
3	IC 410-388102/15	1.0	0.42146	10.0	1790586.0	0.42146	Y
4	IC 410-388102/16	2.0	0.940243	10.0	1802566.0	0.470121	Y
5	IC 410-388102/17	5.0	2.340752	10.0	1860774.0	0.46815	Y
6	ICIS 410-388102/18	10.0	4.720754	10.0	1807671.0	0.472075	Y
7	IC 410-388102/19	25.0	11.387886	10.0	1891215.0	0.455515	Y



**Calibration**

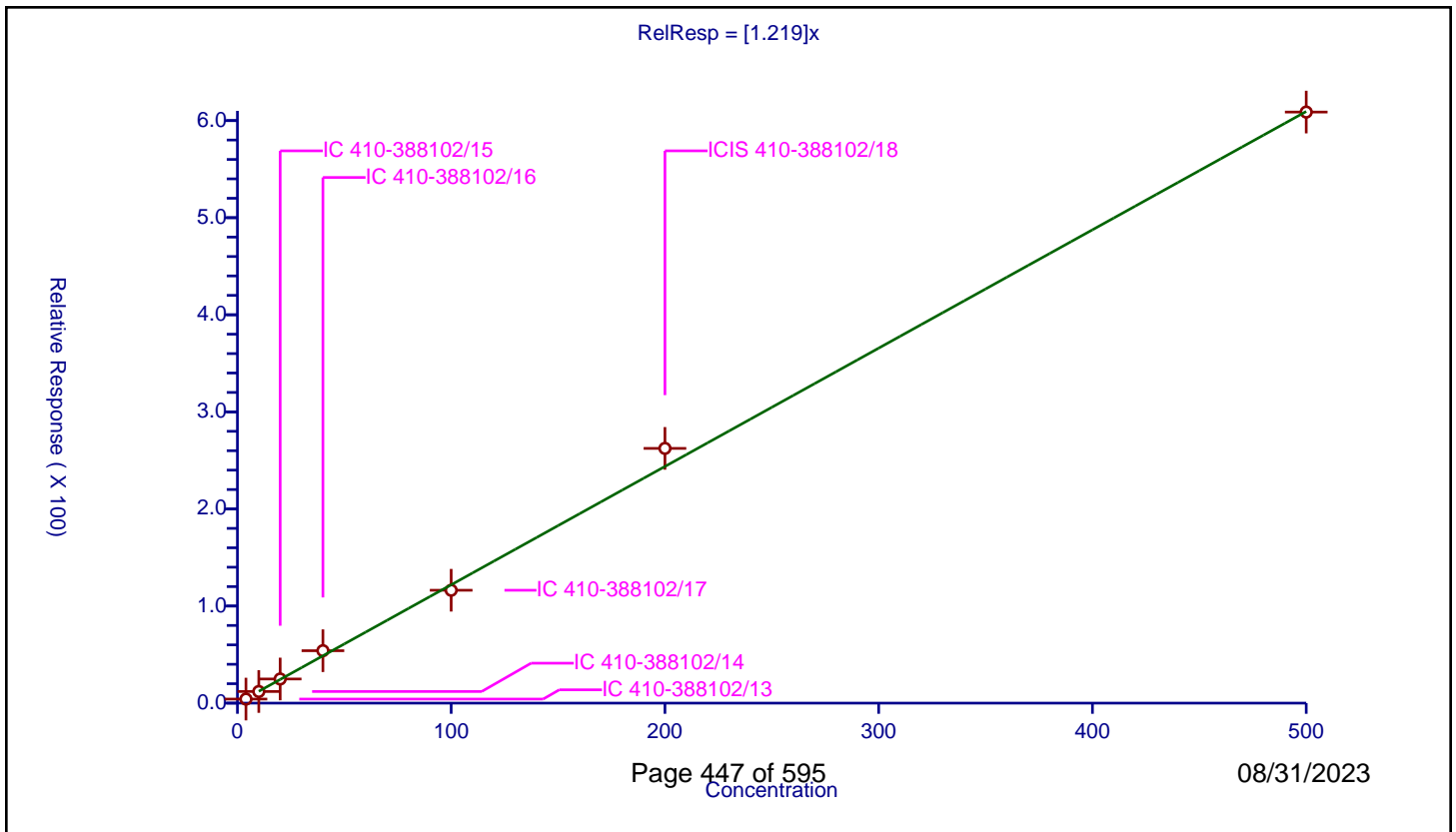
/ Propionitrile

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.219

Error Coefficients	
Standard Error:	741000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	4.0	4.192235	50.0	116680.0	1.048059	Y
2	IC 410-388102/14	10.0	11.976767	50.0	132398.0	1.197677	Y
3	IC 410-388102/15	20.0	24.872899	50.0	133555.0	1.243645	Y
4	IC 410-388102/16	40.0	54.000079	50.0	127135.0	1.350002	Y
5	IC 410-388102/17	100.0	116.266224	50.0	139221.0	1.162662	Y
6	ICIS 410-388102/18	200.0	262.363984	50.0	130775.0	1.31182	Y
7	IC 410-388102/19	500.0	608.780878	50.0	134884.0	1.217562	Y



**Calibration**

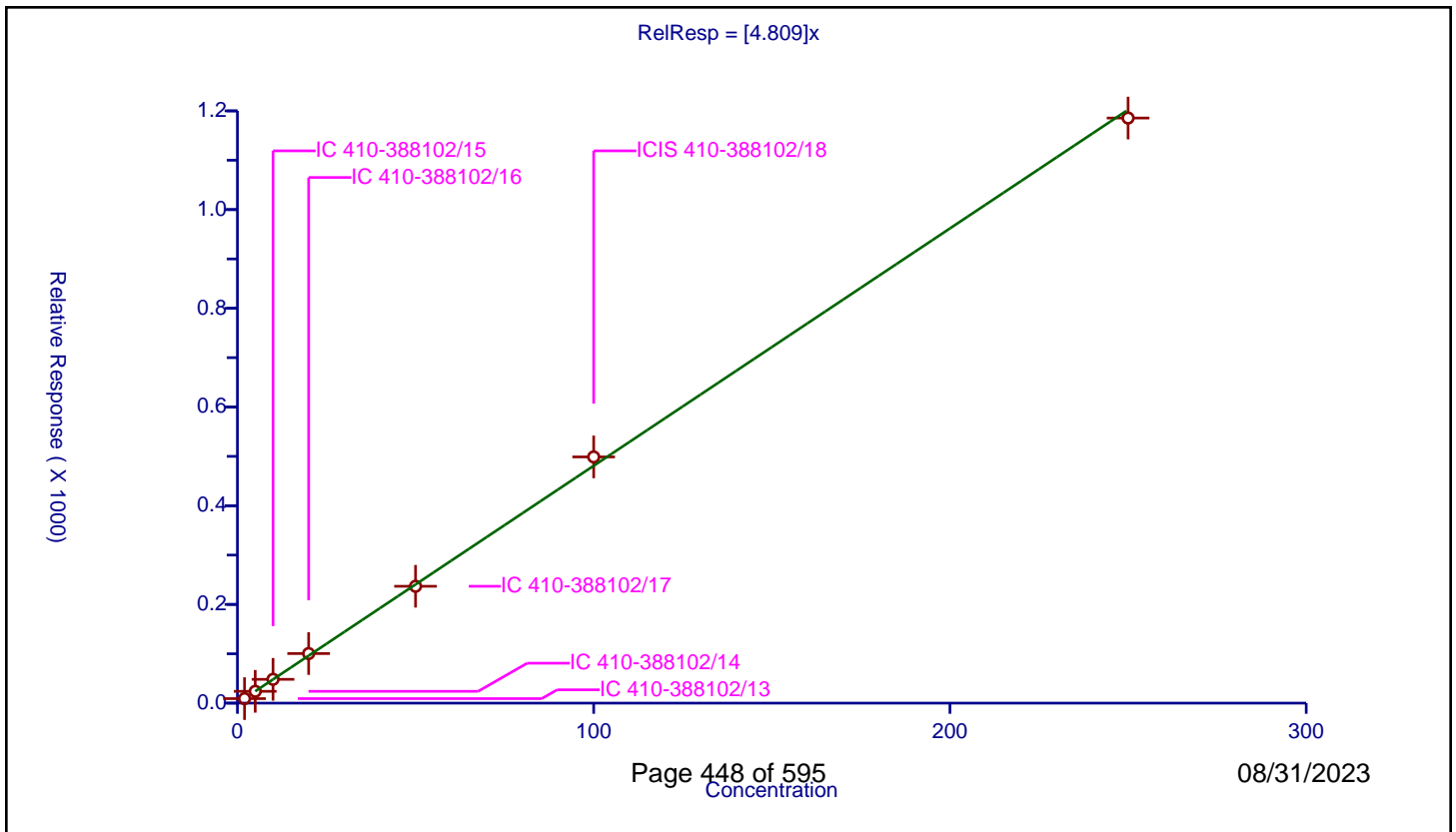
**/ Methacrylonitrile**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	4.809

Error Coefficients	
Standard Error:	1440000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	2.0	9.1271	50.0	116680.0	4.56355	Y
2	IC 410-388102/14	5.0	23.958821	50.0	132398.0	4.791764	Y
3	IC 410-388102/15	10.0	48.209726	50.0	133555.0	4.820973	Y
4	IC 410-388102/16	20.0	100.431431	50.0	127135.0	5.021572	Y
5	IC 410-388102/17	50.0	236.784321	50.0	139221.0	4.735686	Y
6	ICIS 410-388102/18	100.0	498.904225	50.0	130775.0	4.989042	Y
7	IC 410-388102/19	250.0	1185.557961	50.0	134884.0	4.742232	Y





**Calibration**

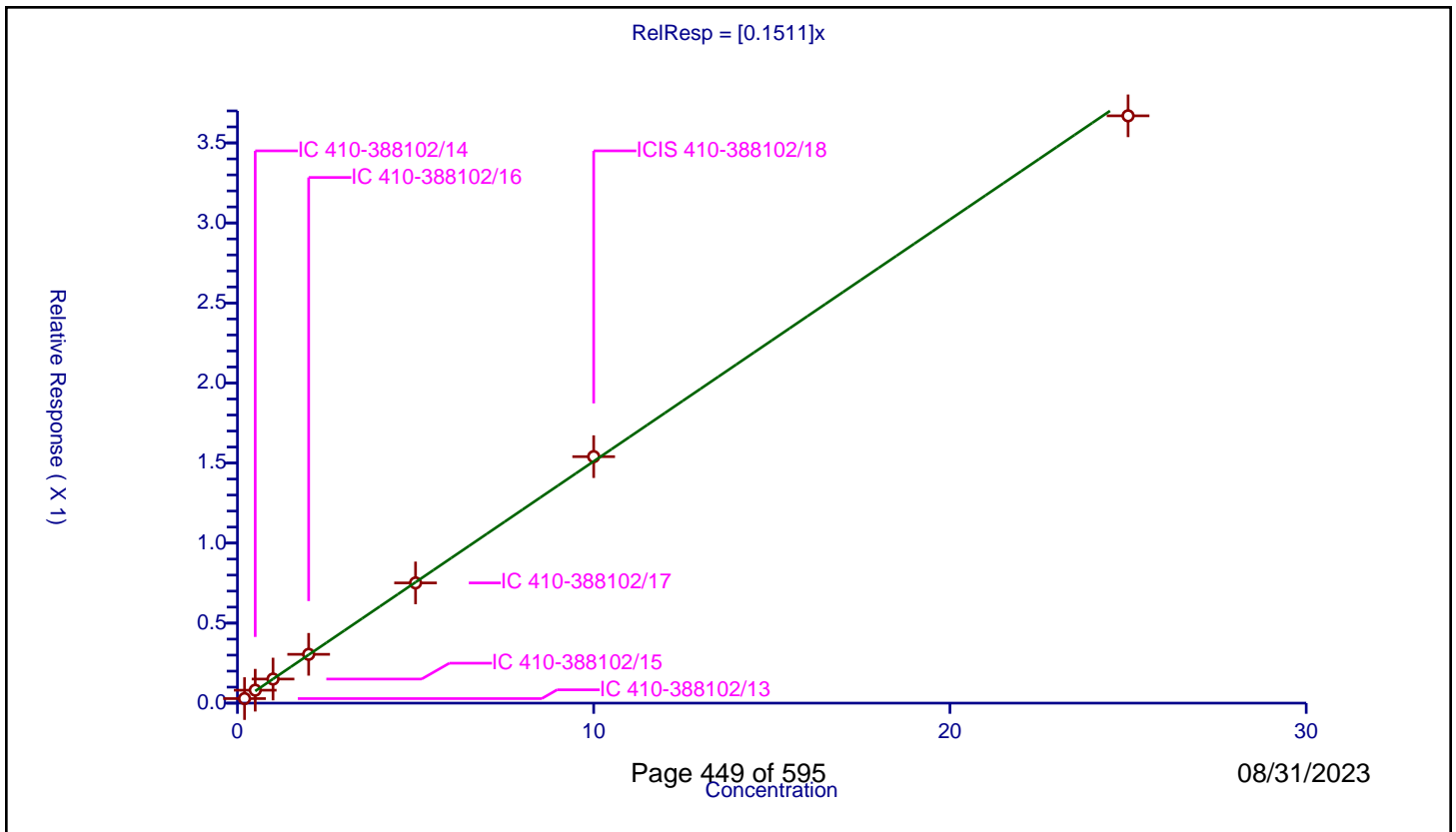
**/ Chlorobromomethane**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1511

Error Coefficients	
Standard Error:	312000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.028397	10.0	1795291.0	0.141983	Y
2	IC 410-388102/14	0.5	0.080823	10.0	1753956.0	0.161646	Y
3	IC 410-388102/15	1.0	0.150431	10.0	1790586.0	0.150431	Y
4	IC 410-388102/16	2.0	0.304882	10.0	1802566.0	0.152441	Y
5	IC 410-388102/17	5.0	0.751026	10.0	1860774.0	0.150205	Y
6	ICIS 410-388102/18	10.0	1.539893	10.0	1807671.0	0.153989	Y
7	IC 410-388102/19	25.0	3.669154	10.0	1891215.0	0.146766	Y



**Calibration**

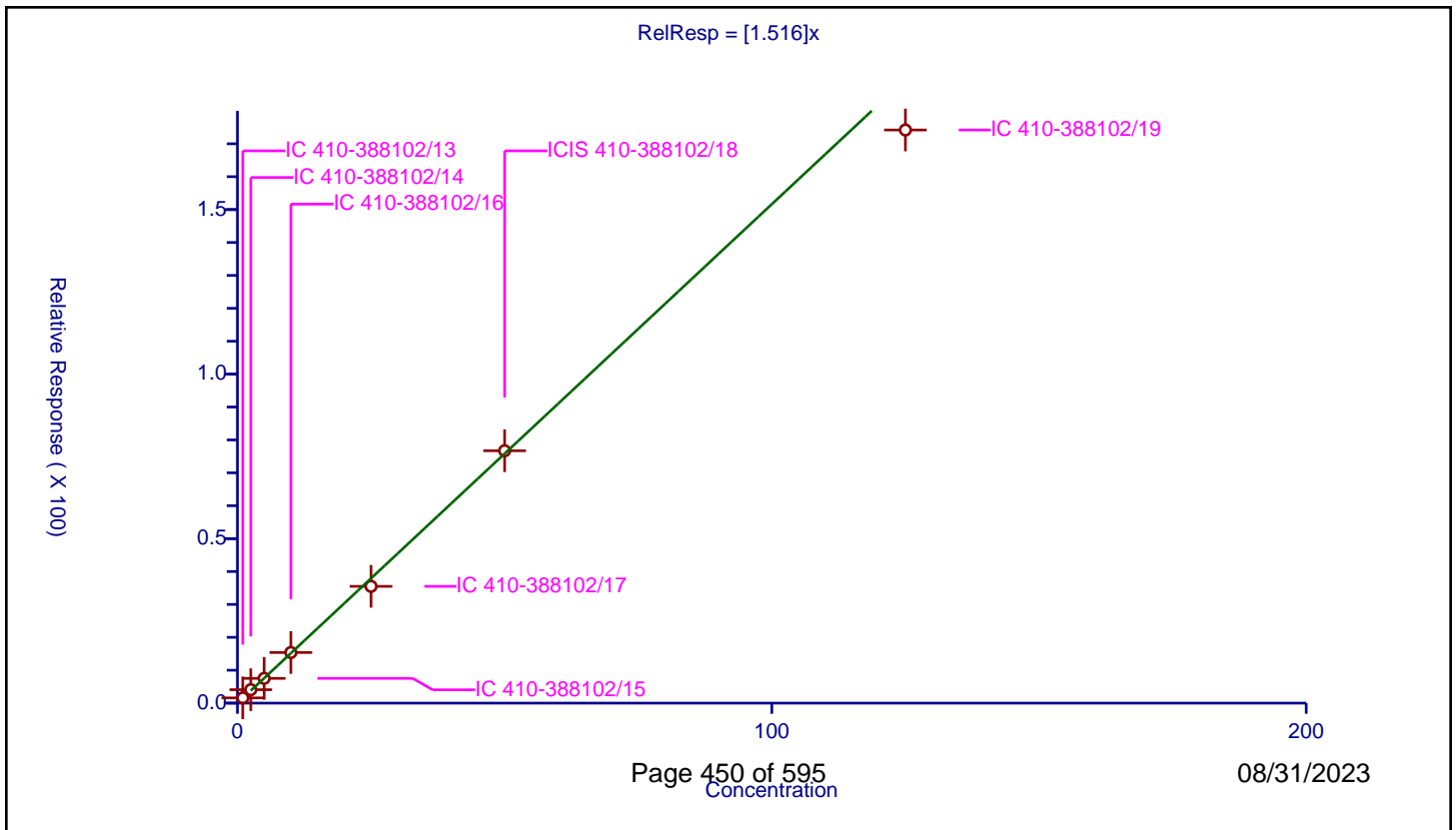
/ Tetrahydrofuran

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.516

Error Coefficients	
Standard Error:	213000
Relative Standard Error:	5.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	1.0	1.591104	50.0	116680.0	1.591104	Y
2	IC 410-388102/14	2.5	4.082766	50.0	132398.0	1.633106	Y
3	IC 410-388102/15	5.0	7.523118	50.0	133555.0	1.504624	Y
4	IC 410-388102/16	10.0	15.387187	50.0	127135.0	1.538719	Y
5	IC 410-388102/17	25.0	35.490336	50.0	139221.0	1.419613	Y
6	ICIS 410-388102/18	50.0	76.712292	50.0	130775.0	1.534246	Y
7	IC 410-388102/19	125.0	174.197459	50.0	134884.0	1.39358	Y



**Calibration**

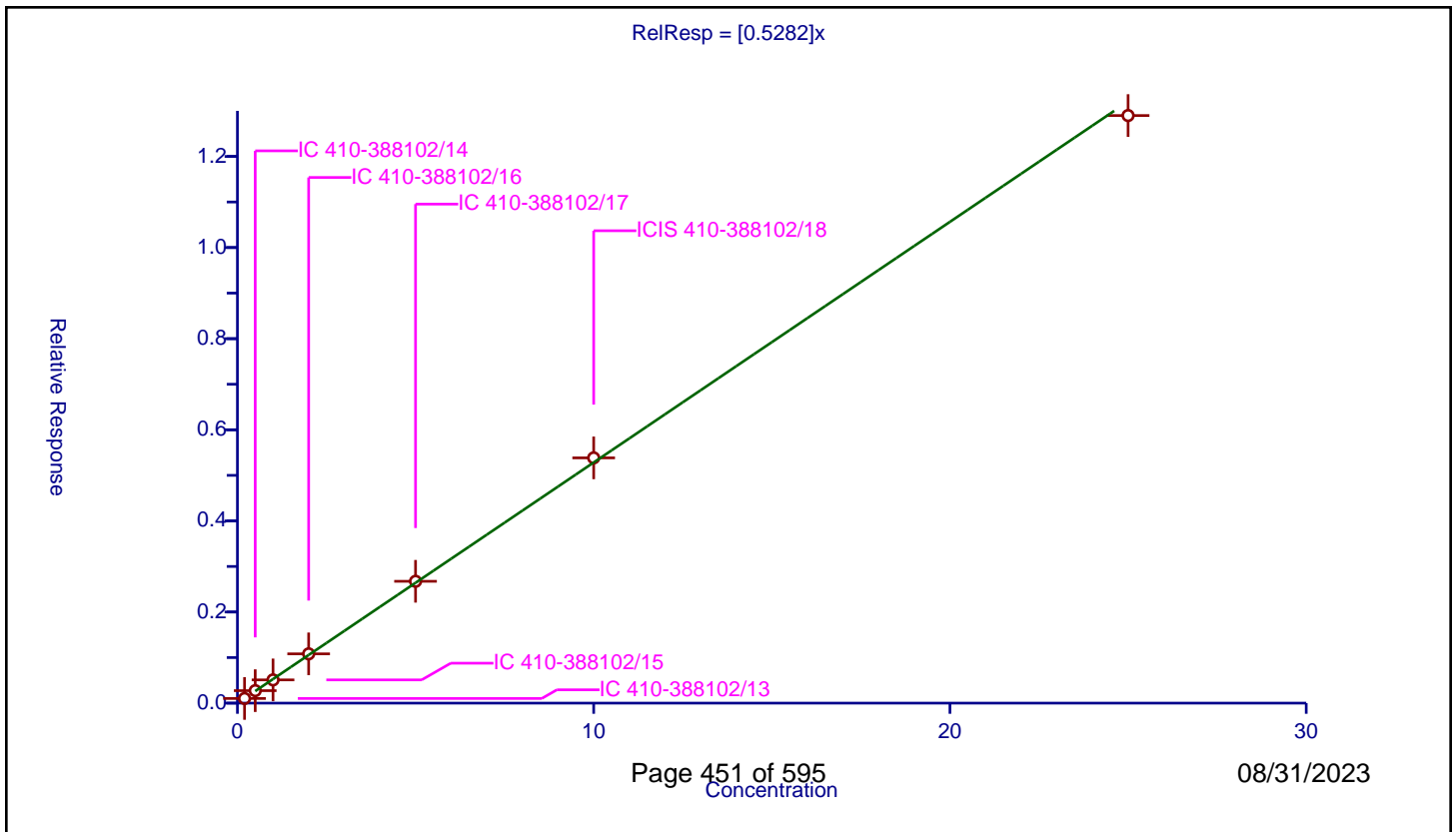
/ Chloroform

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5282

Error Coefficients	
Standard Error:	1090000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.101967	10.0	1795291.0	0.509834	Y
2	IC 410-388102/14	0.5	0.273713	10.0	1753956.0	0.547425	Y
3	IC 410-388102/15	1.0	0.510241	10.0	1790586.0	0.510241	Y
4	IC 410-388102/16	2.0	1.081991	10.0	1802566.0	0.540995	Y
5	IC 410-388102/17	5.0	2.674167	10.0	1860774.0	0.534833	Y
6	ICIS 410-388102/18	10.0	5.383275	10.0	1807671.0	0.538327	Y
7	IC 410-388102/19	25.0	12.897952	10.0	1891215.0	0.515918	Y



**Calibration**

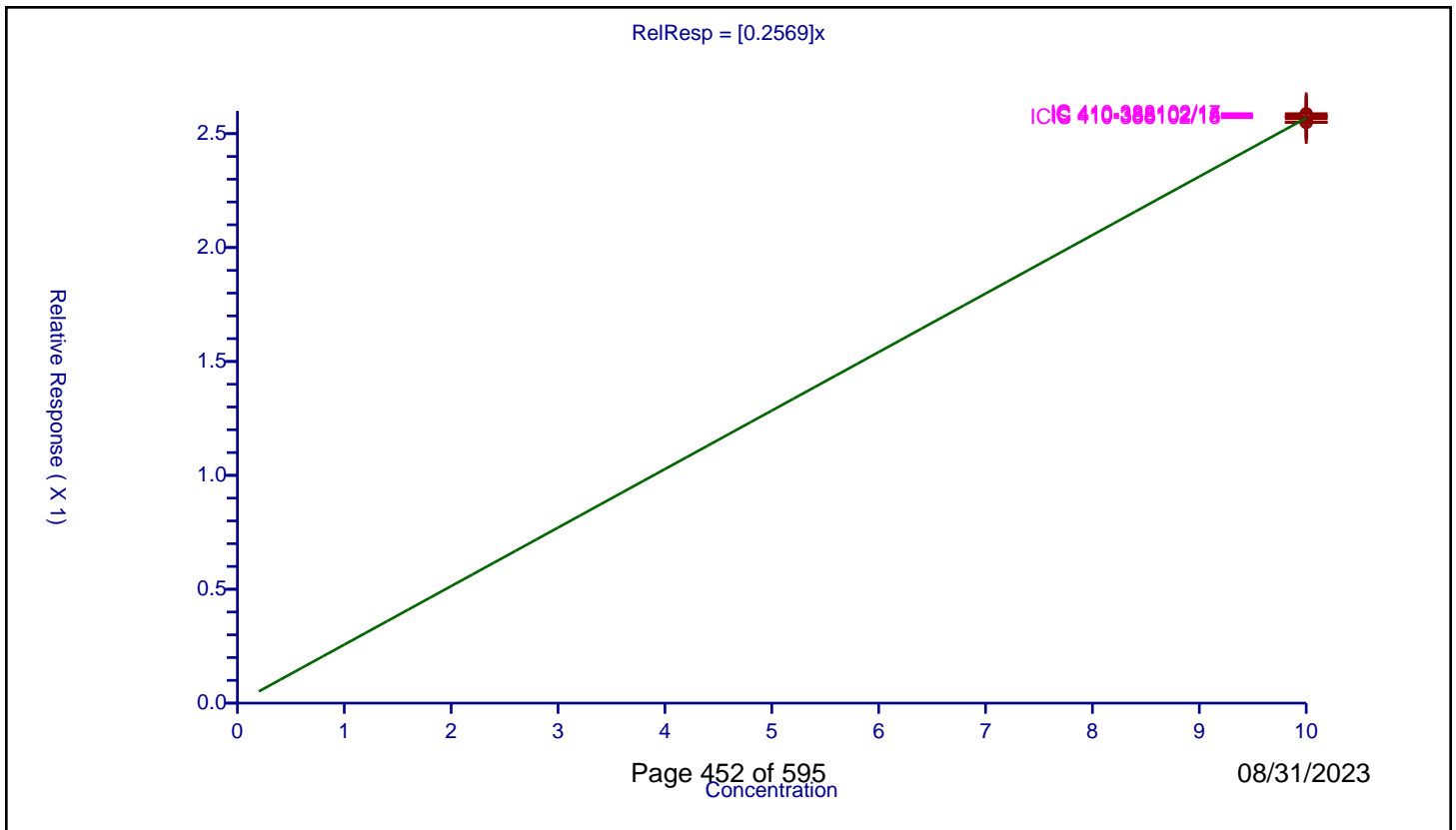
/ Dibromofluoromethane (Surr)

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2569

Error Coefficients	
Standard Error:	504000
Relative Standard Error:	0.6
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	10.0	2.565879	10.0	1795291.0	0.256588	Y
2	IC 410-388102/14	10.0	2.579084	10.0	1753956.0	0.257908	Y
3	IC 410-388102/15	10.0	2.576352	10.0	1790586.0	0.257635	Y
4	IC 410-388102/16	10.0	2.551285	10.0	1802566.0	0.255129	Y
5	IC 410-388102/17	10.0	2.587896	10.0	1860774.0	0.25879	Y
6	ICIS 410-388102/18	10.0	2.570451	10.0	1807671.0	0.257045	Y
7	IC 410-388102/19	10.0	2.549023	10.0	1891215.0	0.254902	Y



Calibration

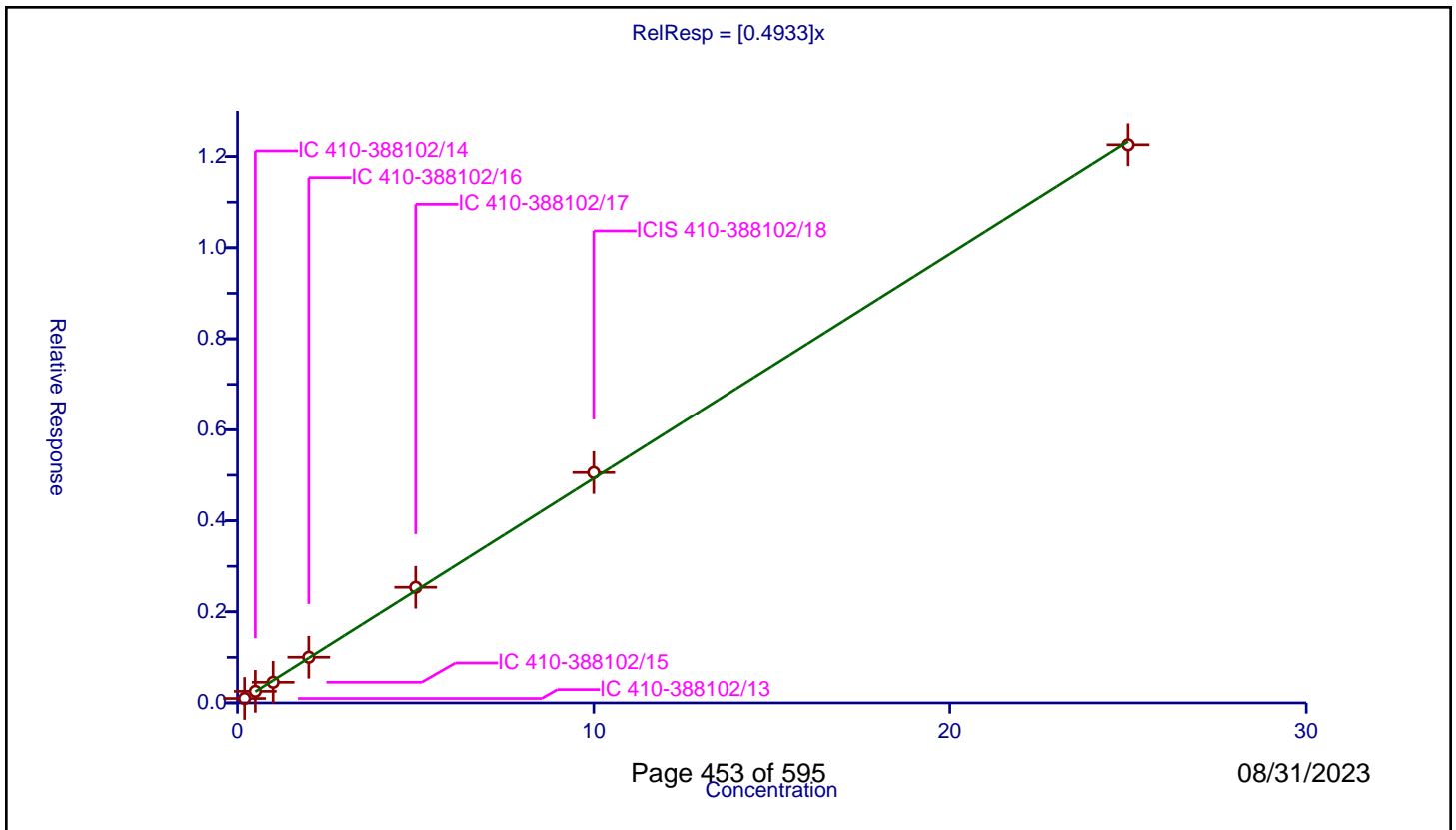
/ 1,1,1-Trichloroethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4933

Error Coefficients	
Standard Error:	1040000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.097121	10.0	1795291.0	0.485604	Y
2	IC 410-388102/14	0.5	0.254317	10.0	1753956.0	0.508633	Y
3	IC 410-388102/15	1.0	0.45322	10.0	1790586.0	0.45322	Y
4	IC 410-388102/16	2.0	1.002898	10.0	1802566.0	0.501449	Y
5	IC 410-388102/17	5.0	2.538551	10.0	1860774.0	0.50771	Y
6	ICIS 410-388102/18	10.0	5.058813	10.0	1807671.0	0.505881	Y
7	IC 410-388102/19	25.0	12.258855	10.0	1891215.0	0.490354	Y



**Calibration**

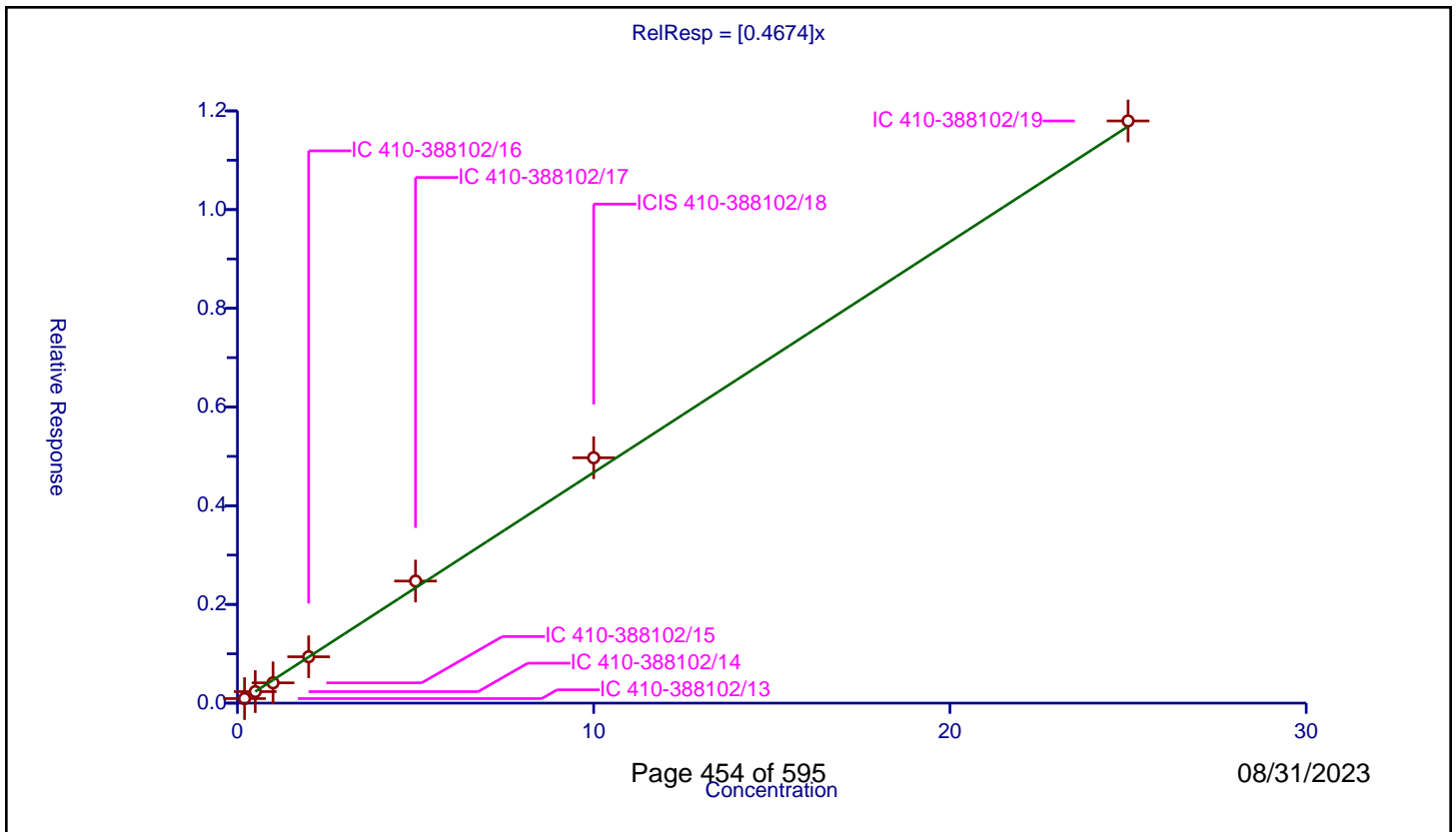
**/ Cyclohexane**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4674

Error Coefficients	
Standard Error:	1000000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.092241	10.0	1795291.0	0.461207	Y
2	IC 410-388102/14	0.5	0.233176	10.0	1753956.0	0.466351	Y
3	IC 410-388102/15	1.0	0.411184	10.0	1790586.0	0.411184	Y
4	IC 410-388102/16	2.0	0.939194	10.0	1802566.0	0.469597	Y
5	IC 410-388102/17	5.0	2.473272	10.0	1860774.0	0.494654	Y
6	ICIS 410-388102/18	10.0	4.971292	10.0	1807671.0	0.497129	Y
7	IC 410-388102/19	25.0	11.796607	10.0	1891215.0	0.471864	Y



Calibration

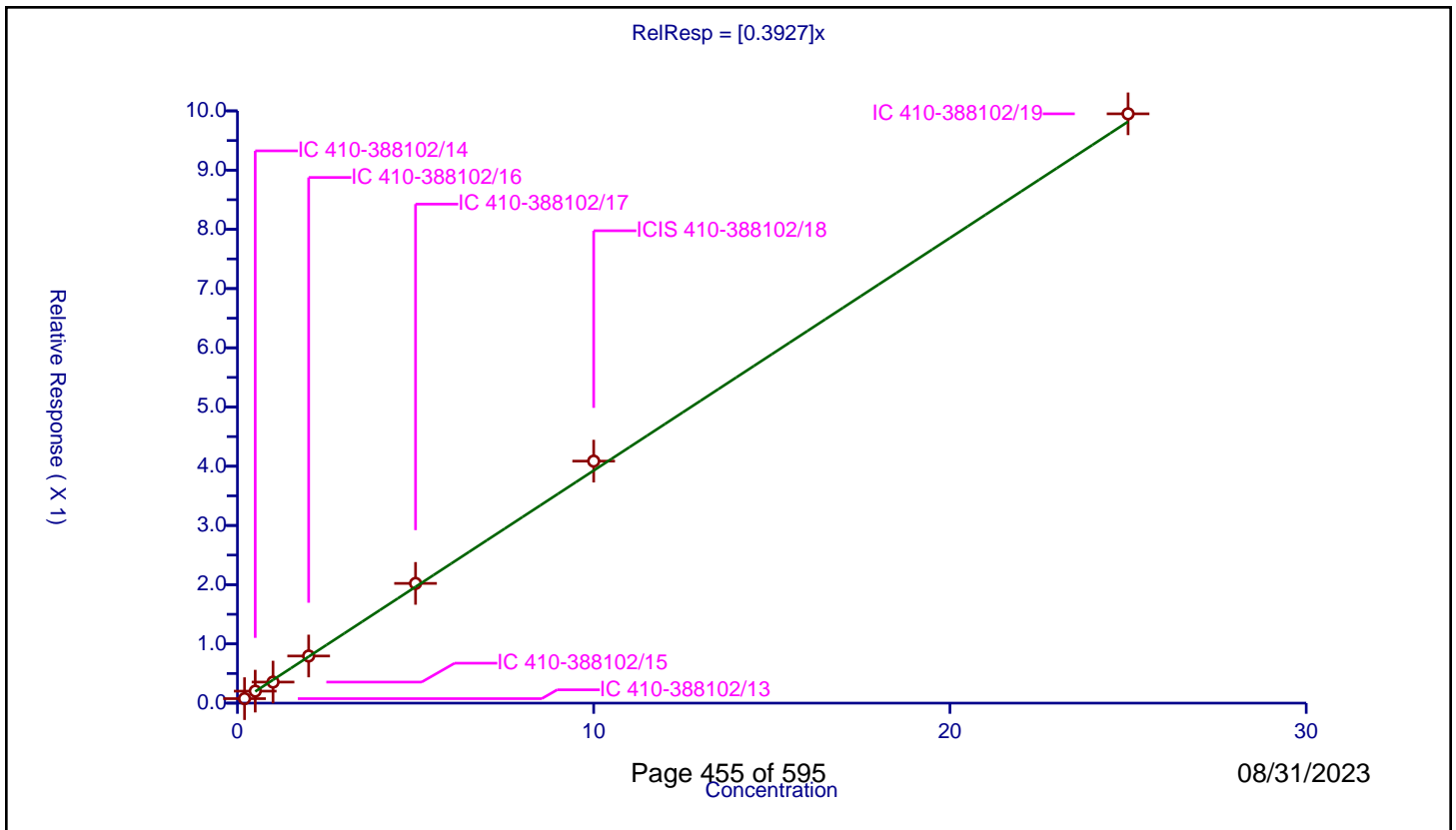
/ 1,1-Dichloropropene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3927

Error Coefficients	
Standard Error:	842000
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 410-388102/13	0.2	0.075943	10.0	1795291.0	0.379716	Y
2	IC 410-388102/14	0.5	0.202536	10.0	1753956.0	0.405073	Y
3	IC 410-388102/15	1.0	0.355392	10.0	1790586.0	0.355392	Y
4	IC 410-388102/16	2.0	0.795982	10.0	1802566.0	0.397991	Y
5	IC 410-388102/17	5.0	2.021449	10.0	1860774.0	0.40429	Y
6	ICIS 410-388102/18	10.0	4.086169	10.0	1807671.0	0.408617	Y
7	IC 410-388102/19	25.0	9.950476	10.0	1891215.0	0.398019	Y



**Calibration**

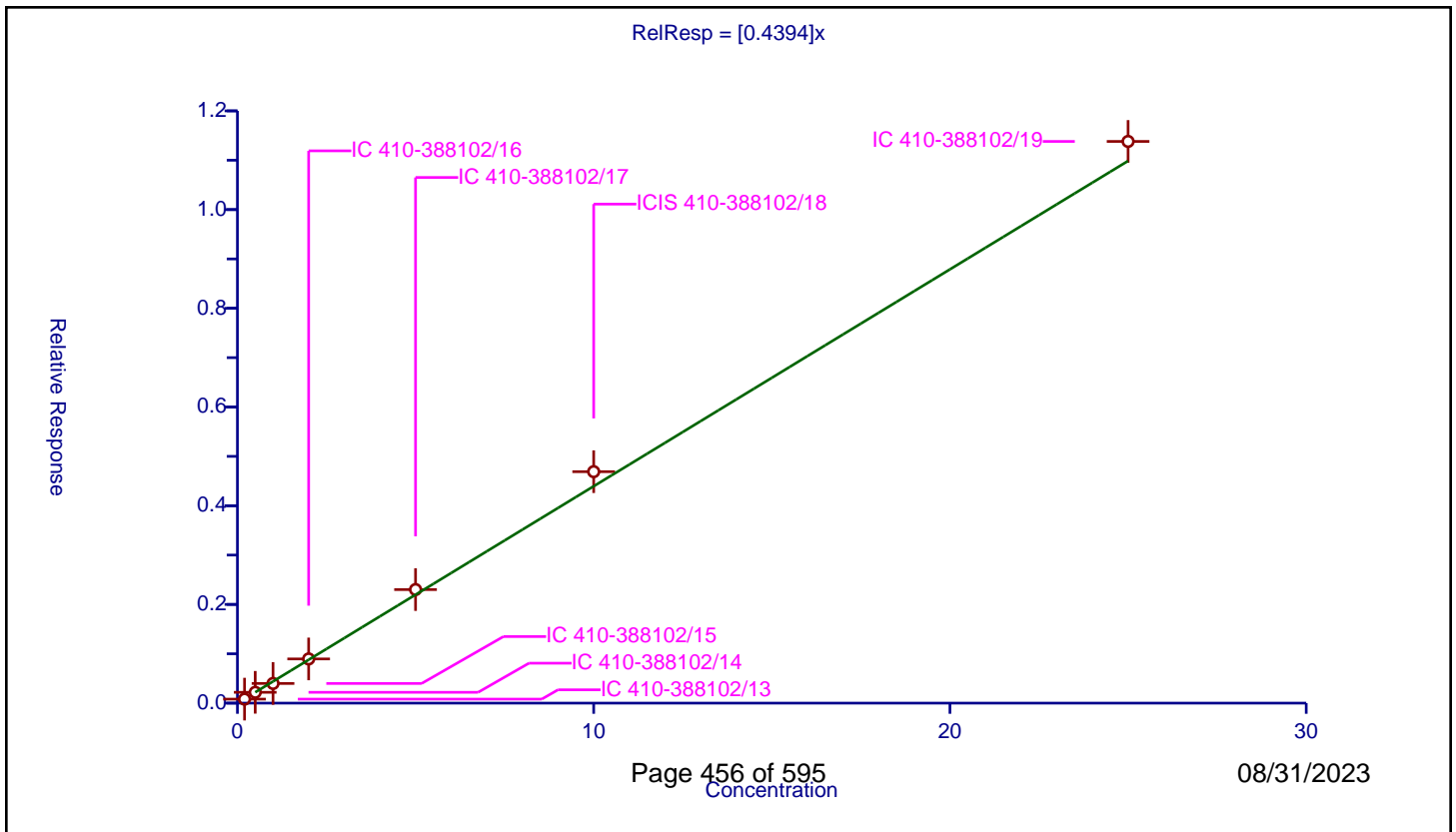
**/ Carbon tetrachloride**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4394

Error Coefficients	
Standard Error:	963000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.081385	10.0	1795291.0	0.406926	Y
2	IC 410-388102/14	0.5	0.219133	10.0	1753956.0	0.438266	Y
3	IC 410-388102/15	1.0	0.398685	10.0	1790586.0	0.398685	Y
4	IC 410-388102/16	2.0	0.895584	10.0	1802566.0	0.447792	Y
5	IC 410-388102/17	5.0	2.301053	10.0	1860774.0	0.460211	Y
6	ICIS 410-388102/18	10.0	4.690107	10.0	1807671.0	0.469011	Y
7	IC 410-388102/19	25.0	11.381133	10.0	1891215.0	0.455245	Y





**Calibration**

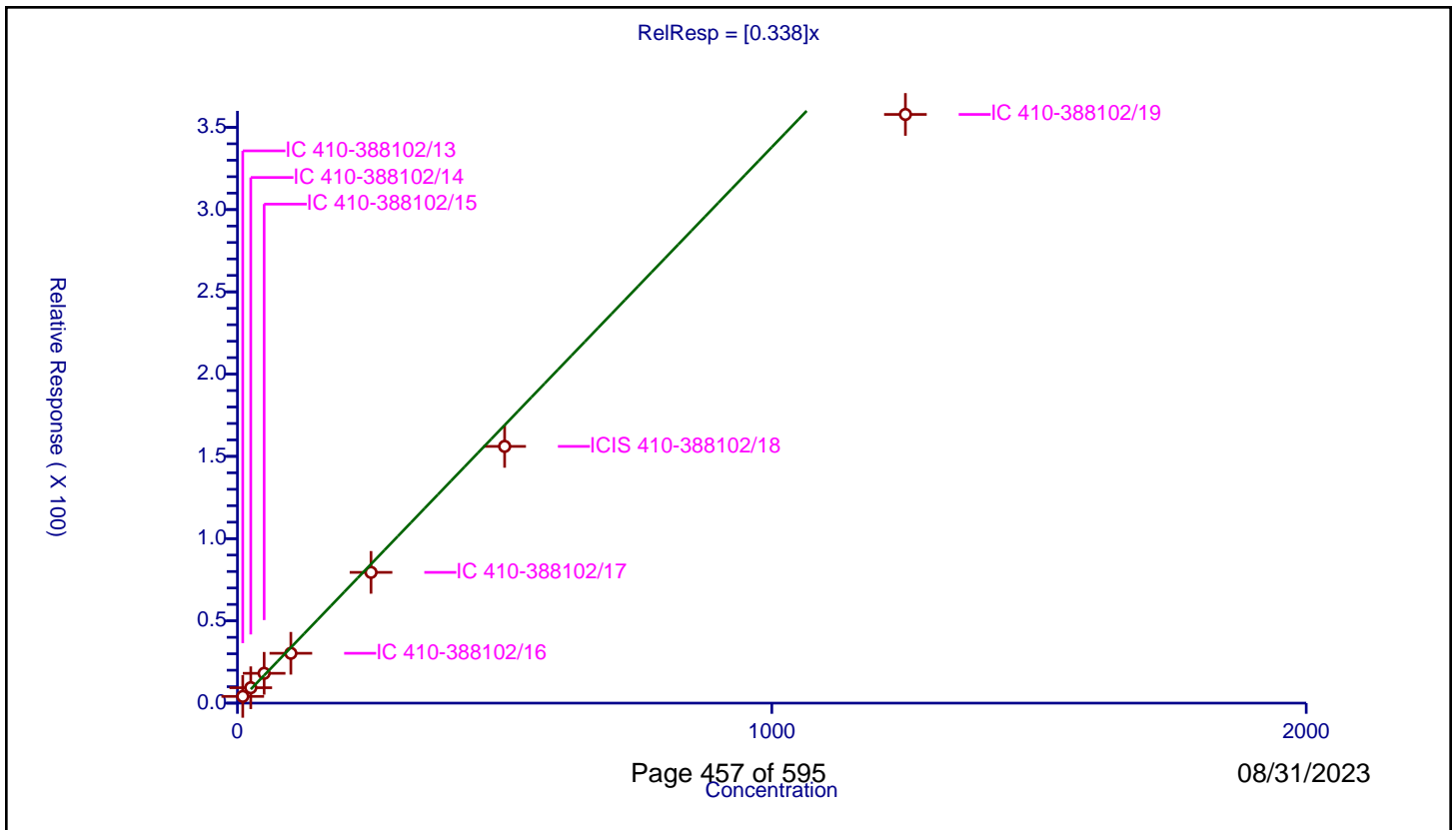
/ Isobutyl alcohol

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.338

Error Coefficients	
Standard Error:	439000
Relative Standard Error:	13.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	10.0	4.091532	50.0	116680.0	0.409153	Y
2	IC 410-388102/14	25.0	9.369855	50.0	132398.0	0.374794	Y
3	IC 410-388102/15	50.0	18.125866	50.0	133555.0	0.362517	Y
4	IC 410-388102/16	100.0	30.291029	50.0	127135.0	0.30291	Y
5	IC 410-388102/17	250.0	79.482262	50.0	139221.0	0.317929	Y
6	ICIS 410-388102/18	500.0	156.063085	50.0	130775.0	0.312126	Y
7	IC 410-388102/19	1250.0	357.849708	50.0	134884.0	0.28628	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

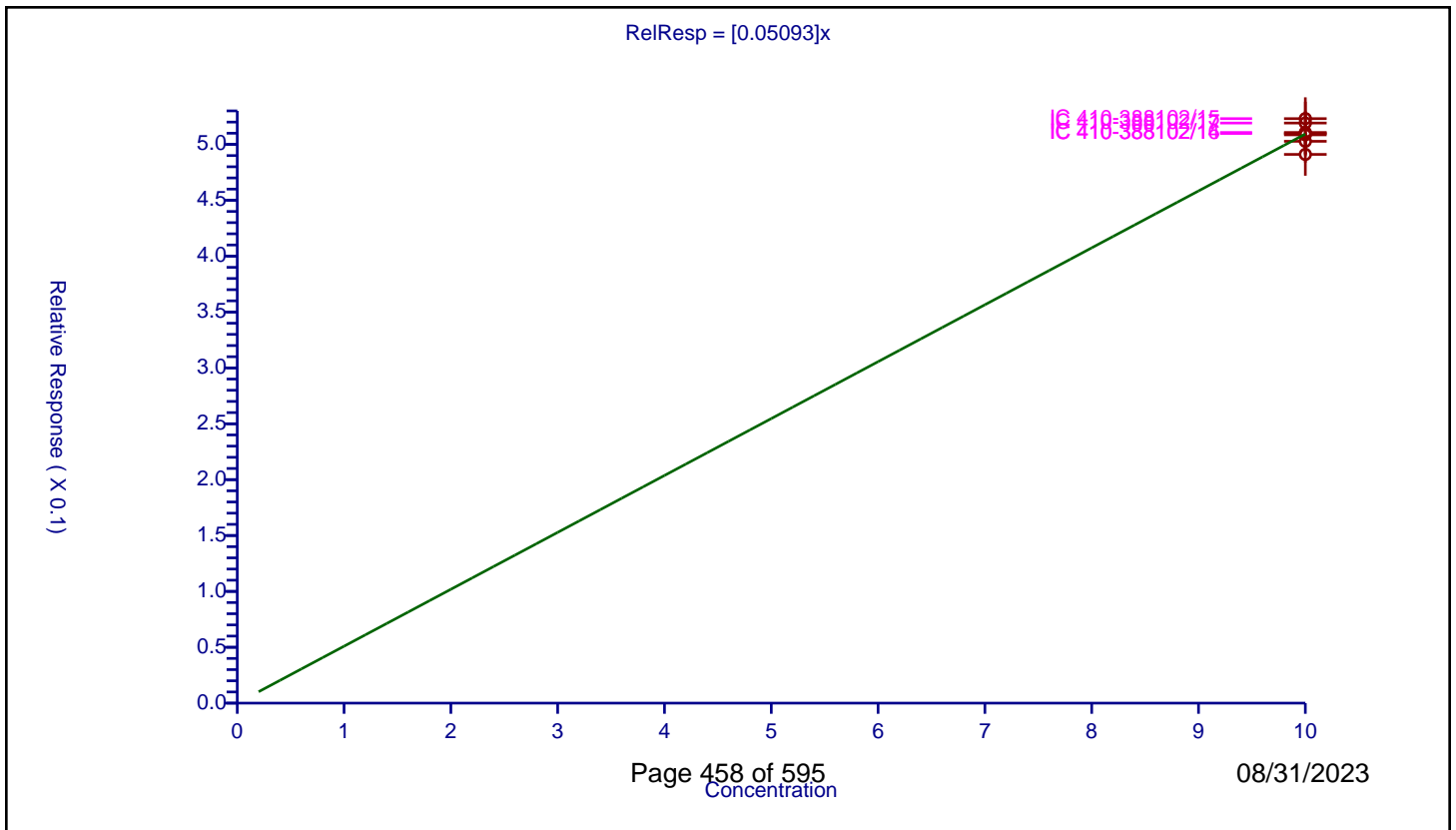
**Curve Coefficients**

Intercept: 0  
 Slope: 0.05093

**Error Coefficients**

Standard Error: 99800  
 Relative Standard Error: 2.1  
 Correlation Coefficient: NA  
 Coefficient of Determination (Adjusted): 0.000000000000000111

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	10.0	0.502771	10.0	1795291.0	0.050277	Y
2	IC 410-388102/14	10.0	0.509785	10.0	1753956.0	0.050978	Y
3	IC 410-388102/15	10.0	0.523063	10.0	1790586.0	0.052306	Y
4	IC 410-388102/16	10.0	0.510678	10.0	1802566.0	0.051068	Y
5	IC 410-388102/17	10.0	0.519139	10.0	1860774.0	0.051914	Y
6	ICIS 410-388102/18	10.0	0.508549	10.0	1807671.0	0.050855	Y
7	IC 410-388102/19	10.0	0.491044	10.0	1891215.0	0.049104	Y



Calibration

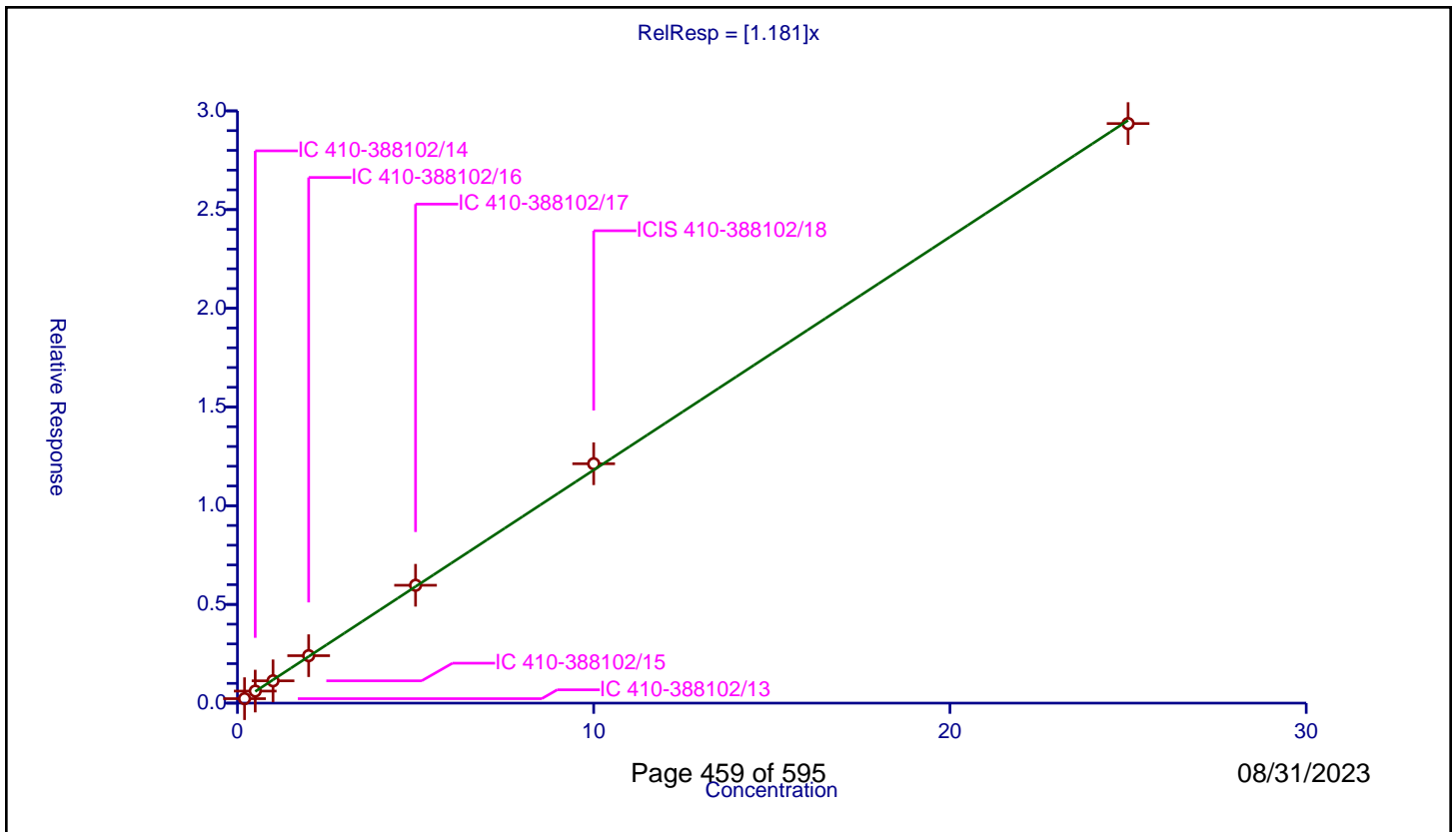
/ Benzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.181

Error Coefficients	
Standard Error:	2490000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.226476	10.0	1795291.0	1.132379	Y
2	IC 410-388102/14	0.5	0.610386	10.0	1753956.0	1.220772	Y
3	IC 410-388102/15	1.0	1.129312	10.0	1790586.0	1.129312	Y
4	IC 410-388102/16	2.0	2.403762	10.0	1802566.0	1.201881	Y
5	IC 410-388102/17	5.0	5.970338	10.0	1860774.0	1.194068	Y
6	ICIS 410-388102/18	10.0	12.126327	10.0	1807671.0	1.212633	Y
7	IC 410-388102/19	25.0	29.357683	10.0	1891215.0	1.174307	Y



Calibration

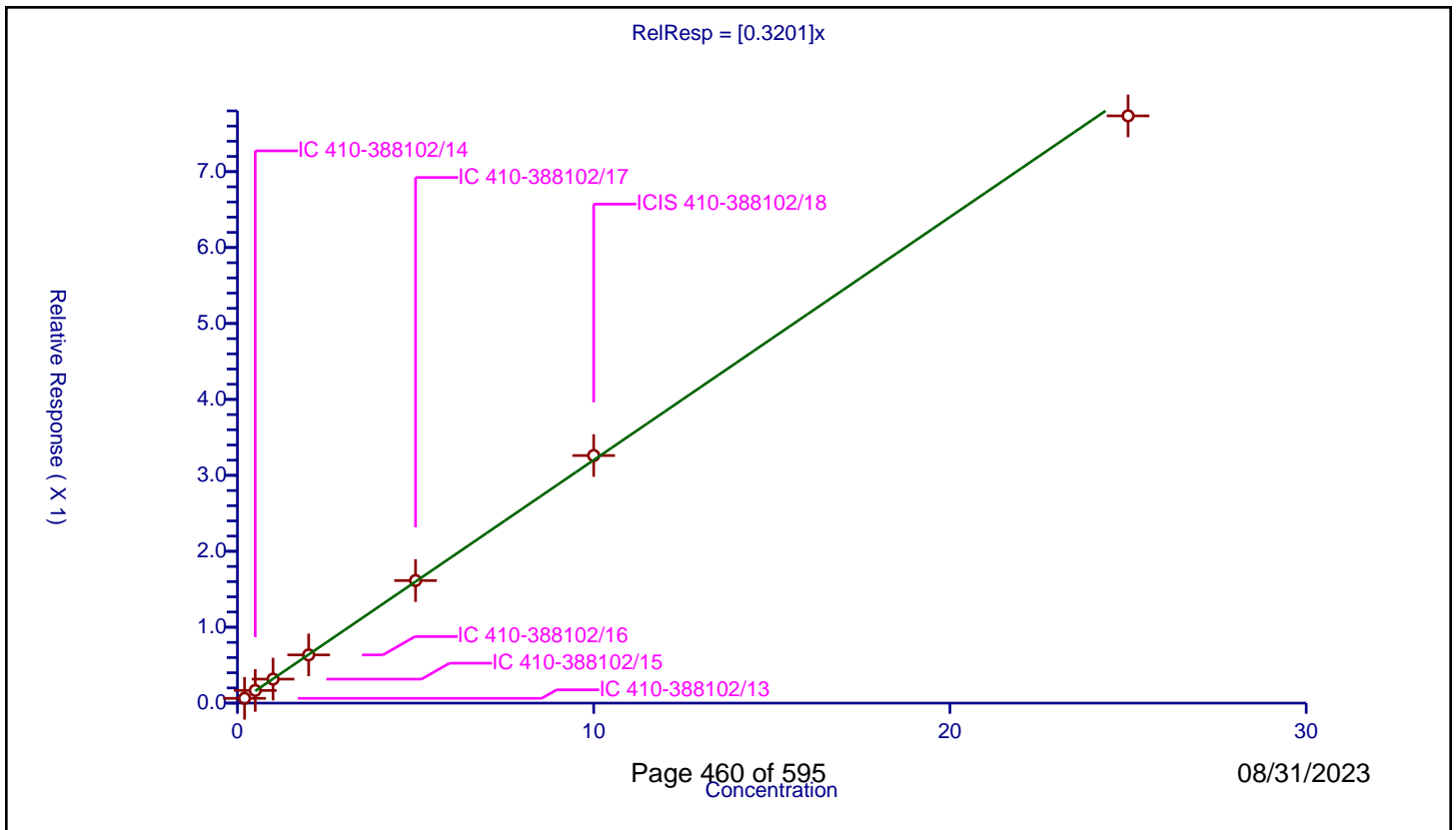
/ 1,2-Dichloroethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3201

Error Coefficients	
Standard Error:	658000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.062931	10.0	1795291.0	0.314657	Y
2	IC 410-388102/14	0.5	0.166954	10.0	1753956.0	0.333908	Y
3	IC 410-388102/15	1.0	0.316181	10.0	1790586.0	0.316181	Y
4	IC 410-388102/16	2.0	0.635194	10.0	1802566.0	0.317597	Y
5	IC 410-388102/17	5.0	1.614511	10.0	1860774.0	0.322902	Y
6	ICIS 410-388102/18	10.0	3.260903	10.0	1807671.0	0.32609	Y
7	IC 410-388102/19	25.0	7.734404	10.0	1891215.0	0.309376	Y



**Calibration**

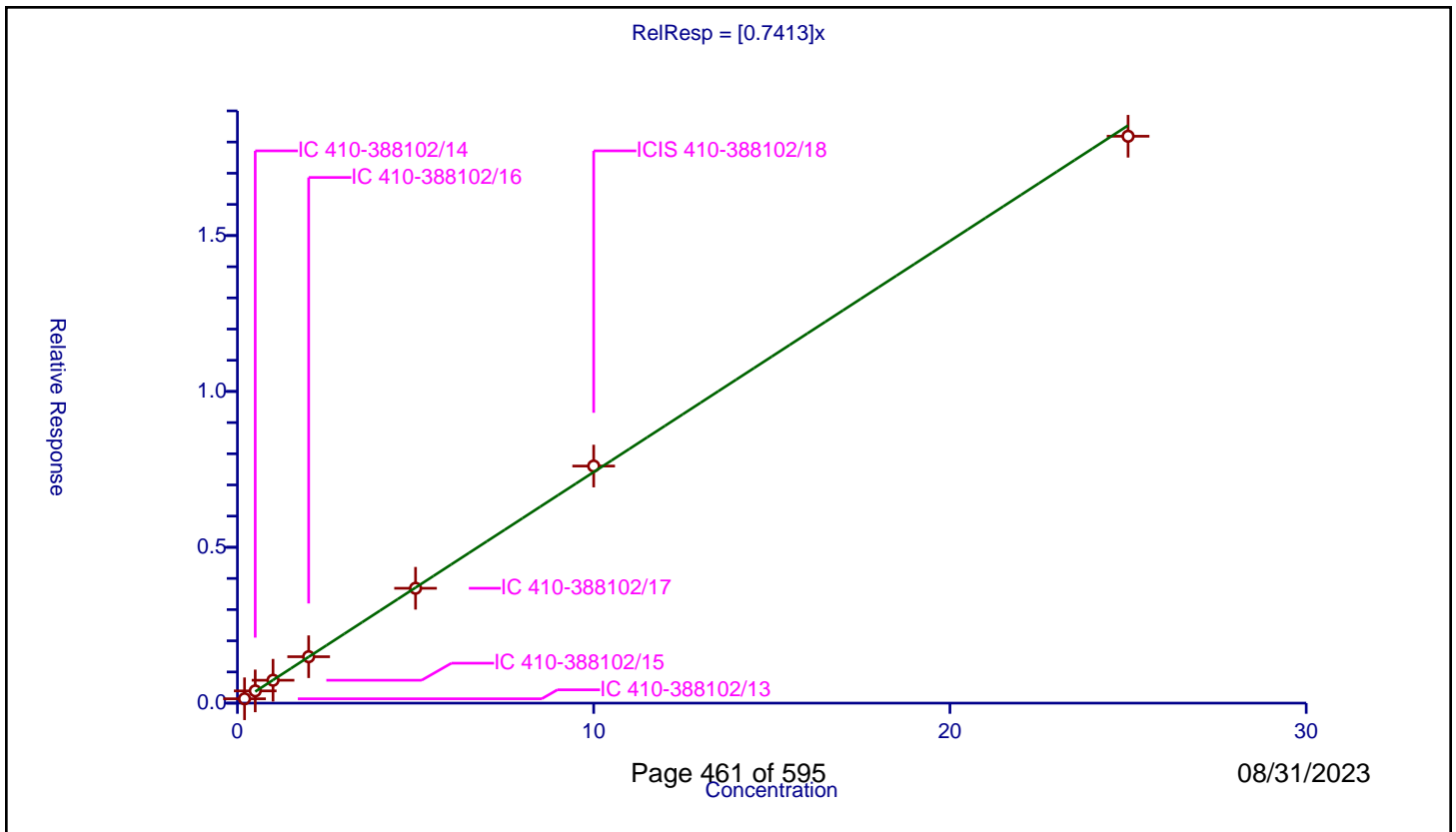
/ Tert-amyl methyl ether

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7413

Error Coefficients	
Standard Error:	1540000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.139871	10.0	1795291.0	0.699357	Y
2	IC 410-388102/14	0.5	0.3929	10.0	1753956.0	0.785801	Y
3	IC 410-388102/15	1.0	0.734352	10.0	1790586.0	0.734352	Y
4	IC 410-388102/16	2.0	1.489099	10.0	1802566.0	0.74455	Y
5	IC 410-388102/17	5.0	3.685235	10.0	1860774.0	0.737047	Y
6	ICIS 410-388102/18	10.0	7.605643	10.0	1807671.0	0.760564	Y
7	IC 410-388102/19	25.0	18.186251	10.0	1891215.0	0.72745	Y



Calibration

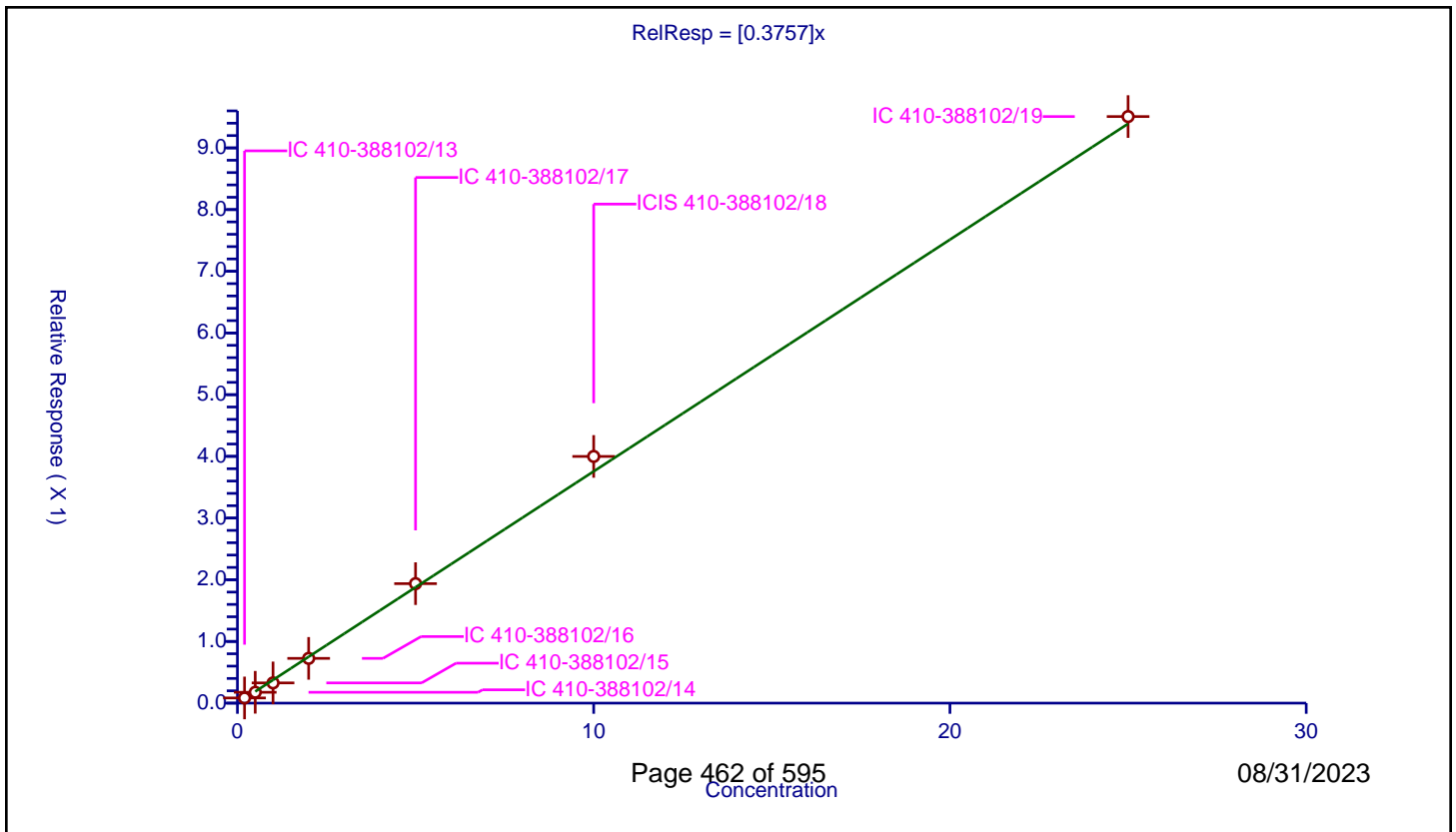
/ n-Heptane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3757

Error Coefficients	
Standard Error:	807000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.083903	10.0	1795291.0	0.419514	Y
2	IC 410-388102/14	0.5	0.175905	10.0	1753956.0	0.35181	Y
3	IC 410-388102/15	1.0	0.32806	10.0	1790586.0	0.32806	Y
4	IC 410-388102/16	2.0	0.725327	10.0	1802566.0	0.362664	Y
5	IC 410-388102/17	5.0	1.936936	10.0	1860774.0	0.387387	Y
6	ICIS 410-388102/18	10.0	3.998825	10.0	1807671.0	0.399883	Y
7	IC 410-388102/19	25.0	9.50783	10.0	1891215.0	0.380313	Y



Calibration

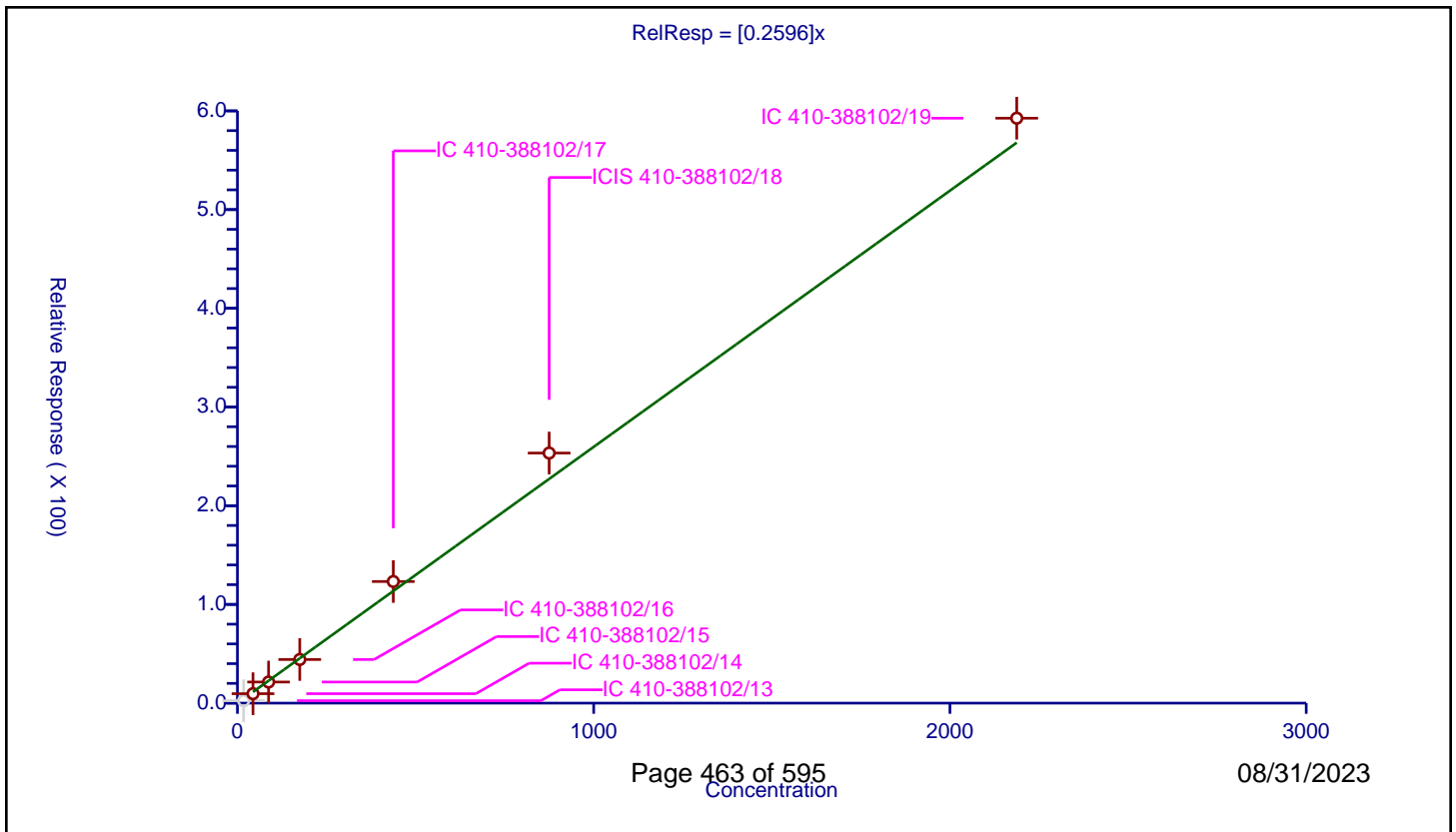
/ n-Butanol

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2596

Error Coefficients	
Standard Error:	791000
Relative Standard Error:	10.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	17.5	2.442149	50.0	116680.0	0.139551	N
2	IC 410-388102/14	43.75	9.564722	50.0	132398.0	0.218622	Y
3	IC 410-388102/15	87.5	21.376586	50.0	133555.0	0.244304	Y
4	IC 410-388102/16	175.0	44.184922	50.0	127135.0	0.252485	Y
5	IC 410-388102/17	437.5	123.220635	50.0	139221.0	0.281647	Y
6	ICIS 410-388102/18	875.0	253.356911	50.0	130775.0	0.289551	Y
7	IC 410-388102/19	2187.5	592.61736	50.0	134884.0	0.270911	Y



Calibration

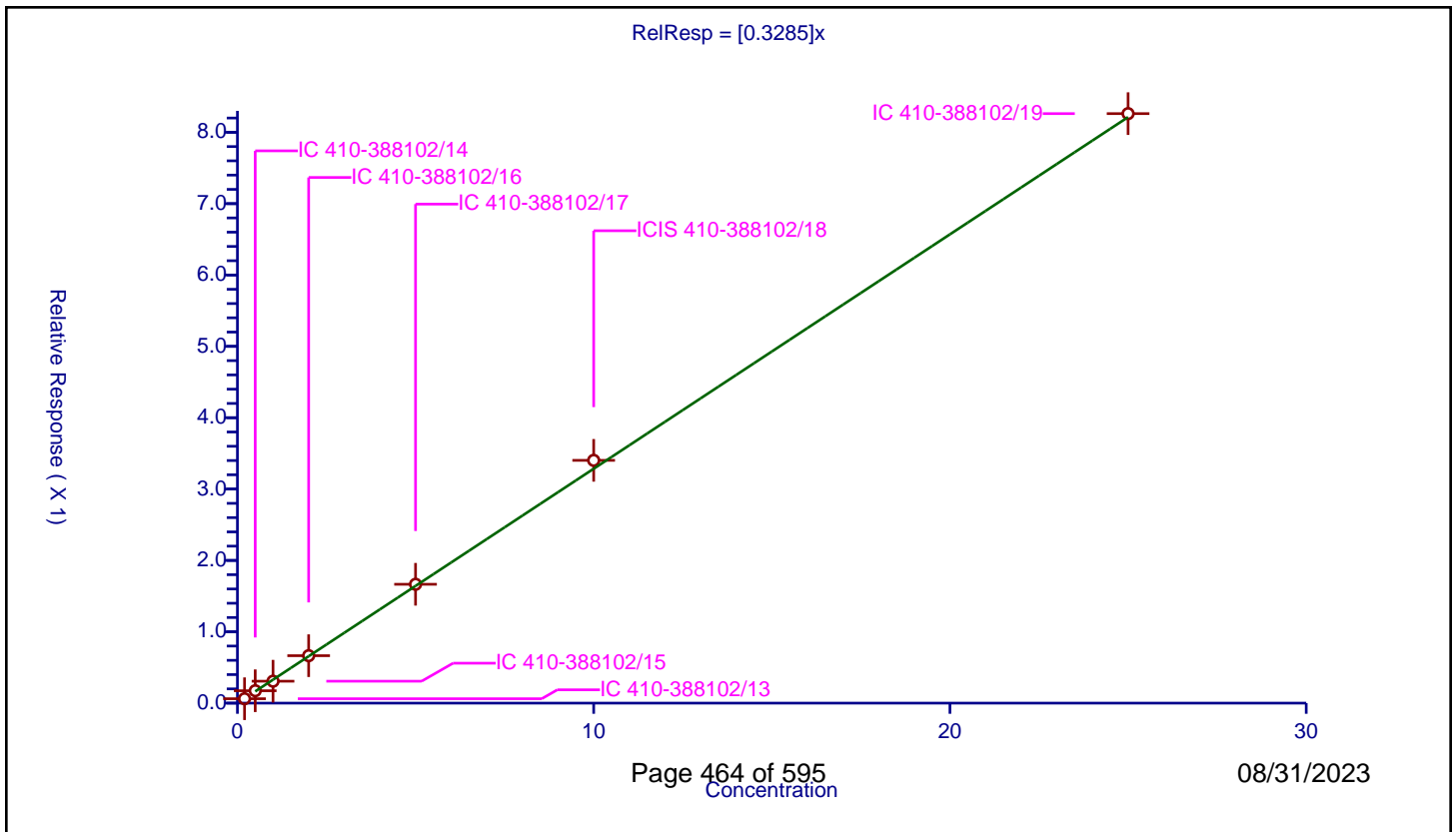
/ Trichloroethene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3285

Error Coefficients	
Standard Error:	699000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.061711	10.0	1795291.0	0.308557	Y
2	IC 410-388102/14	0.5	0.173636	10.0	1753956.0	0.347272	Y
3	IC 410-388102/15	1.0	0.307391	10.0	1790586.0	0.307391	Y
4	IC 410-388102/16	2.0	0.664974	10.0	1802566.0	0.332487	Y
5	IC 410-388102/17	5.0	1.665608	10.0	1860774.0	0.333122	Y
6	ICIS 410-388102/18	10.0	3.402317	10.0	1807671.0	0.340232	Y
7	IC 410-388102/19	25.0	8.261414	10.0	1891215.0	0.330457	Y





Calibration

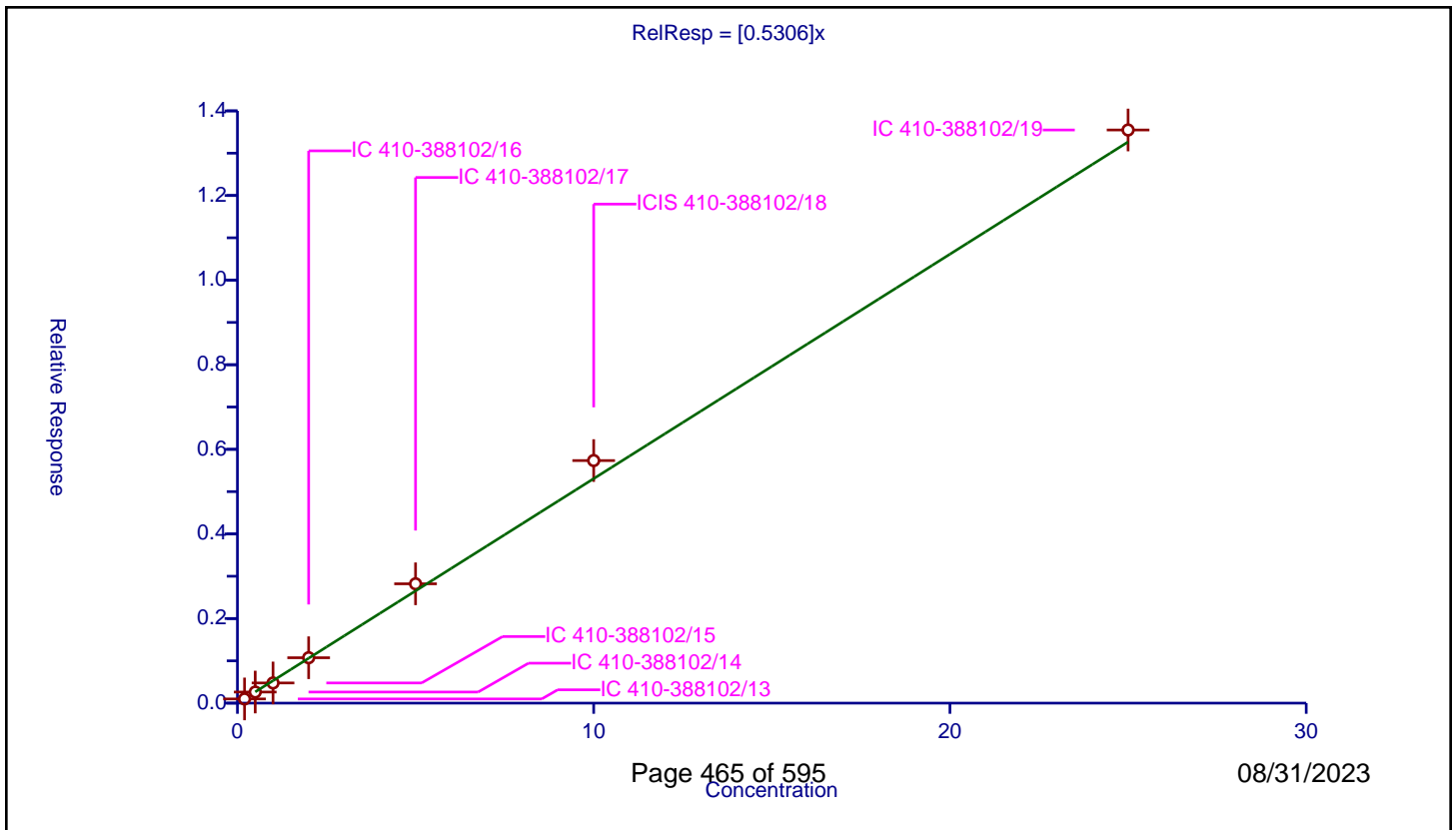
/ Methylcyclohexane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5306

Error Coefficients	
Standard Error:	1150000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.099438	10.0	1795291.0	0.49719	Y
2	IC 410-388102/14	0.5	0.26215	10.0	1753956.0	0.5243	Y
3	IC 410-388102/15	1.0	0.476894	10.0	1790586.0	0.476894	Y
4	IC 410-388102/16	2.0	1.07327	10.0	1802566.0	0.536635	Y
5	IC 410-388102/17	5.0	2.820821	10.0	1860774.0	0.564164	Y
6	ICIS 410-388102/18	10.0	5.734218	10.0	1807671.0	0.573422	Y
7	IC 410-388102/19	25.0	13.548306	10.0	1891215.0	0.541932	Y



Calibration

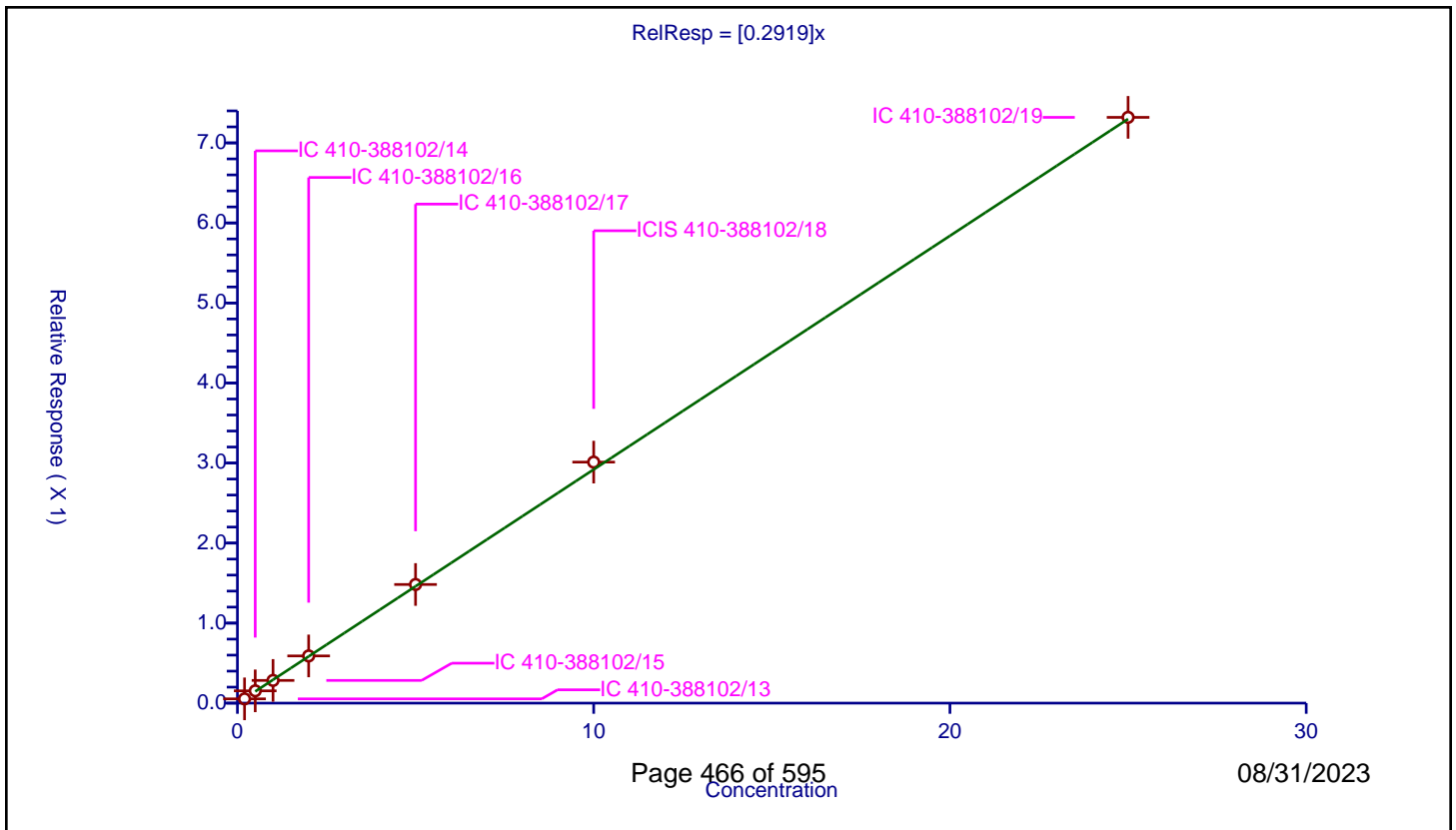
/ 1,2-Dichloropropane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2919

Error Coefficients	
Standard Error:	620000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.053457	10.0	1795291.0	0.267283	Y
2	IC 410-388102/14	0.5	0.153738	10.0	1753956.0	0.307476	Y
3	IC 410-388102/15	1.0	0.28355	10.0	1790586.0	0.28355	Y
4	IC 410-388102/16	2.0	0.589842	10.0	1802566.0	0.294921	Y
5	IC 410-388102/17	5.0	1.482442	10.0	1860774.0	0.296488	Y
6	ICIS 410-388102/18	10.0	3.011577	10.0	1807671.0	0.301158	Y
7	IC 410-388102/19	25.0	7.319094	10.0	1891215.0	0.292764	Y



Calibration

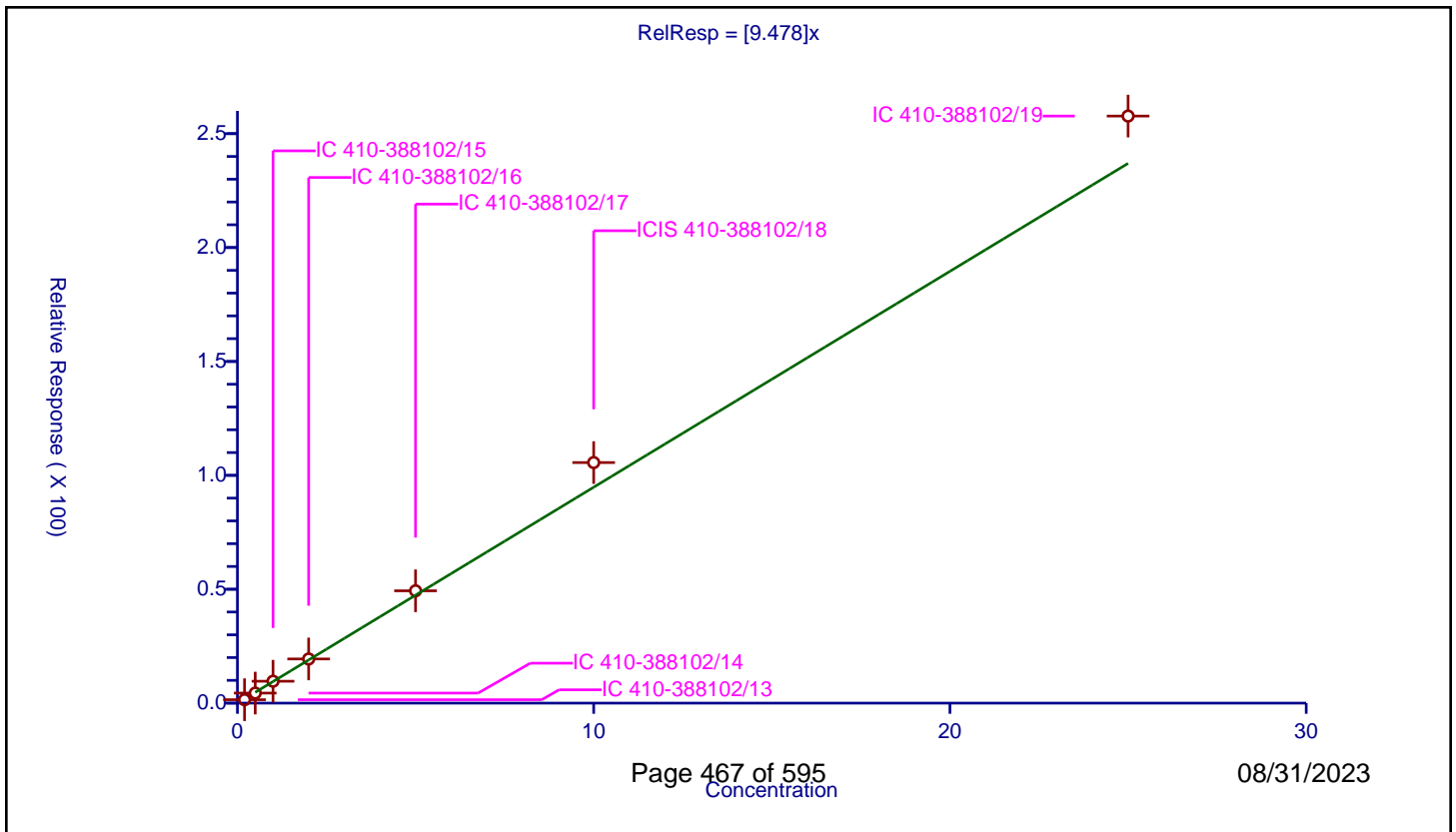
/ Methyl methacrylate

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	9.478

Error Coefficients	
Standard Error:	311000
Relative Standard Error:	11.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	1.497686	50.0	116680.0	7.48843	Y
2	IC 410-388102/14	0.5	4.40981	50.0	132398.0	8.81962	Y
3	IC 410-388102/15	1.0	9.614017	50.0	133555.0	9.614017	Y
4	IC 410-388102/16	2.0	19.386086	50.0	127135.0	9.693043	Y
5	IC 410-388102/17	5.0	49.31404	50.0	139221.0	9.862808	Y
6	ICIS 410-388102/18	10.0	105.610782	50.0	130775.0	10.561078	Y
7	IC 410-388102/19	25.0	257.736277	50.0	134884.0	10.309451	Y



Calibration

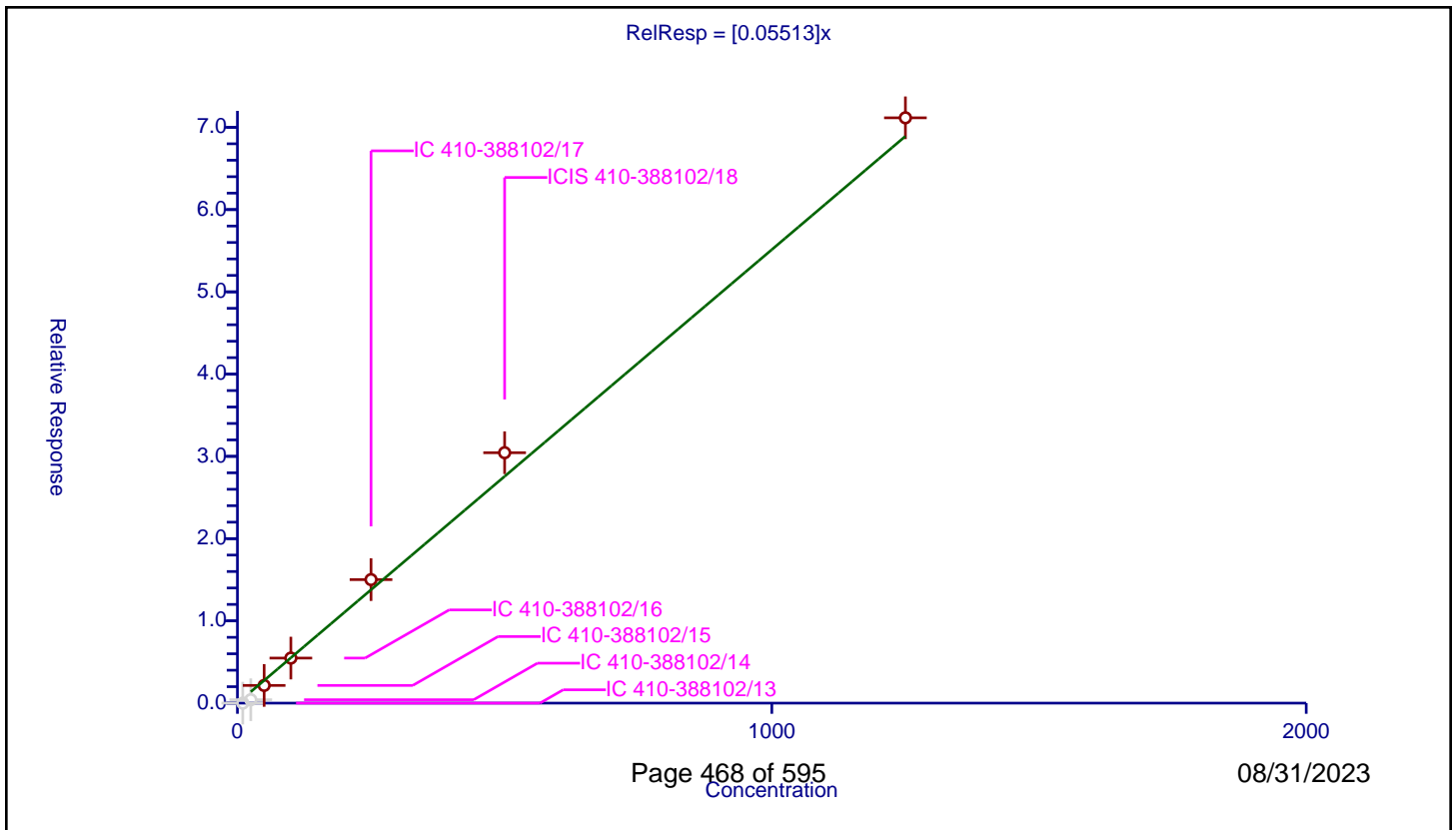
/ 1,4-Dioxane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.05513

Error Coefficients	
Standard Error:	106000
Relative Standard Error:	13.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	10.0	0.0	50.0	116680.0	0.0	N
2	IC 410-388102/14	25.0	0.414281	50.0	132398.0	0.016571	N
3	IC 410-388102/15	50.0	2.151174	50.0	133555.0	0.043023	Y
4	IC 410-388102/16	100.0	5.476462	50.0	127135.0	0.054765	Y
5	IC 410-388102/17	250.0	15.017131	50.0	139221.0	0.060069	Y
6	ICIS 410-388102/18	500.0	30.443128	50.0	130775.0	0.060886	Y
7	IC 410-388102/19	1250.0	71.159292	50.0	134884.0	0.056927	Y



**Calibration**

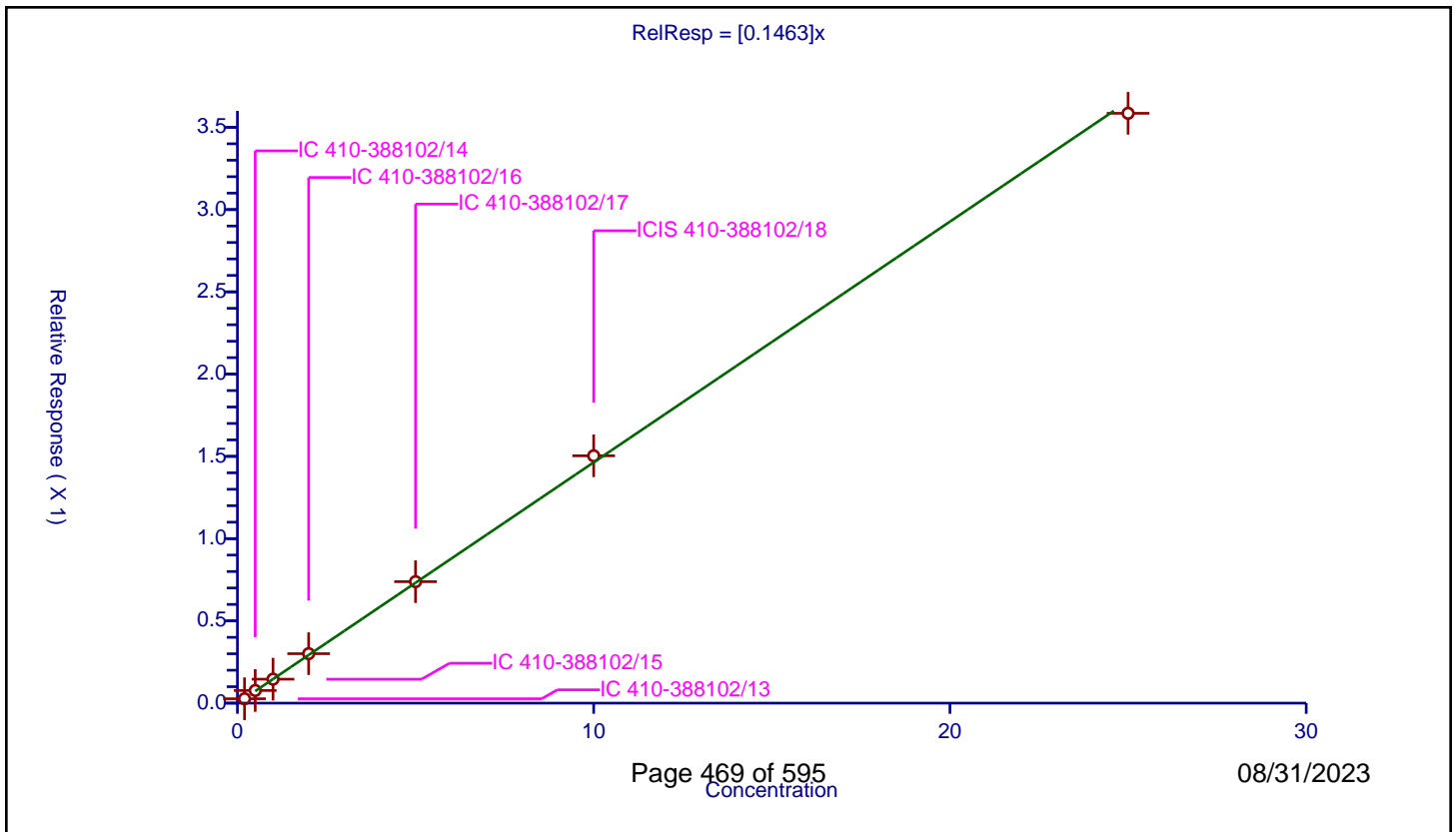
/ Dibromomethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1463

Error Coefficients	
Standard Error:	304000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.026675	10.0	1795291.0	0.133377	Y
2	IC 410-388102/14	0.5	0.076866	10.0	1753956.0	0.153732	Y
3	IC 410-388102/15	1.0	0.145595	10.0	1790586.0	0.145595	Y
4	IC 410-388102/16	2.0	0.300538	10.0	1802566.0	0.150269	Y
5	IC 410-388102/17	5.0	0.738273	10.0	1860774.0	0.147655	Y
6	ICIS 410-388102/18	10.0	1.503376	10.0	1807671.0	0.150338	Y
7	IC 410-388102/19	25.0	3.58523	10.0	1891215.0	0.143409	Y



**Calibration**

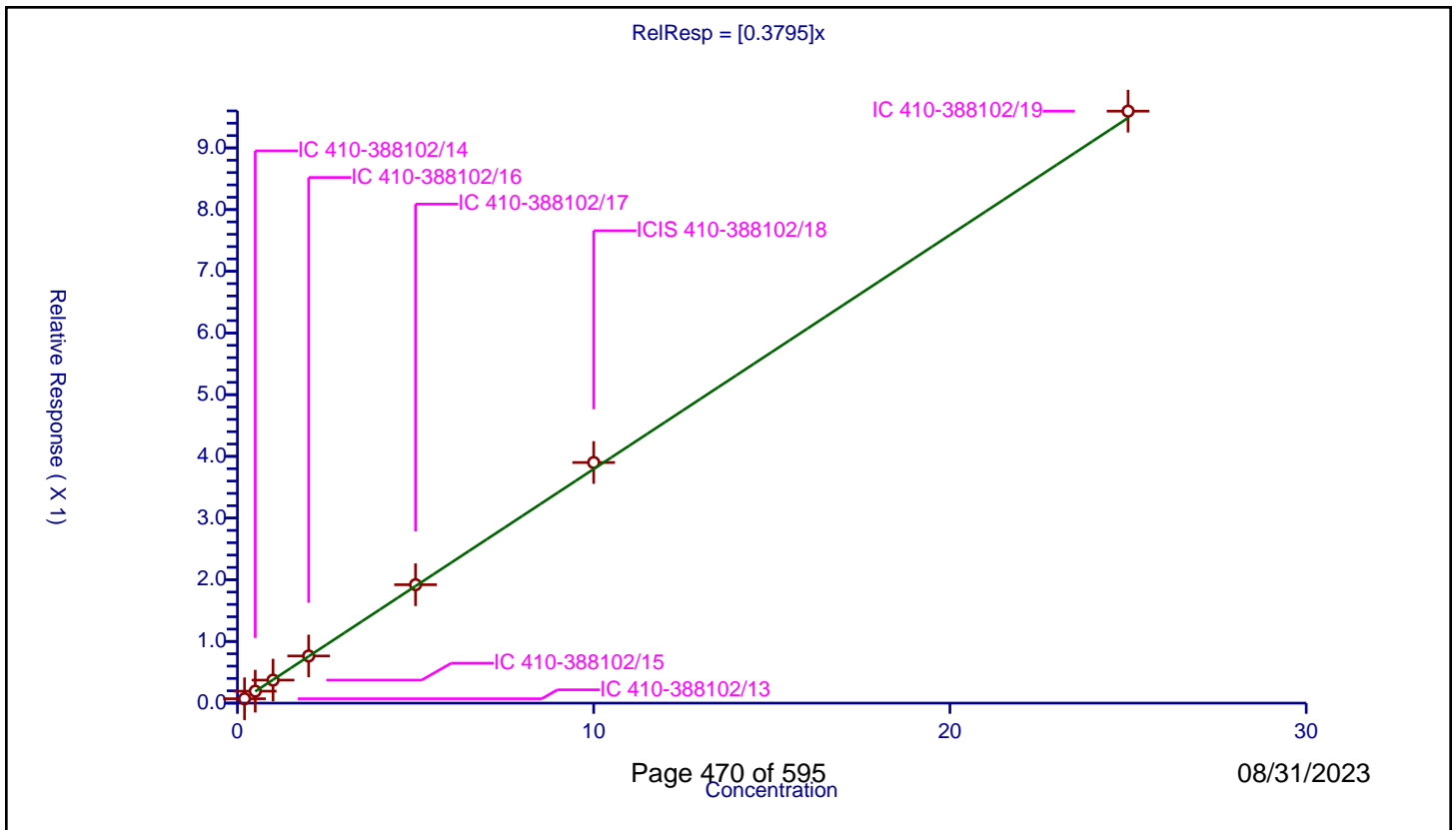
/ Dichlorobromomethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3795

Error Coefficients	
Standard Error:	811000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.070947	10.0	1795291.0	0.354734	Y
2	IC 410-388102/14	0.5	0.194155	10.0	1753956.0	0.388311	Y
3	IC 410-388102/15	1.0	0.373157	10.0	1790586.0	0.373157	Y
4	IC 410-388102/16	2.0	0.76436	10.0	1802566.0	0.38218	Y
5	IC 410-388102/17	5.0	1.919475	10.0	1860774.0	0.383895	Y
6	ICIS 410-388102/18	10.0	3.90045	10.0	1807671.0	0.390045	Y
7	IC 410-388102/19	25.0	9.595863	10.0	1891215.0	0.383835	Y



**Calibration**

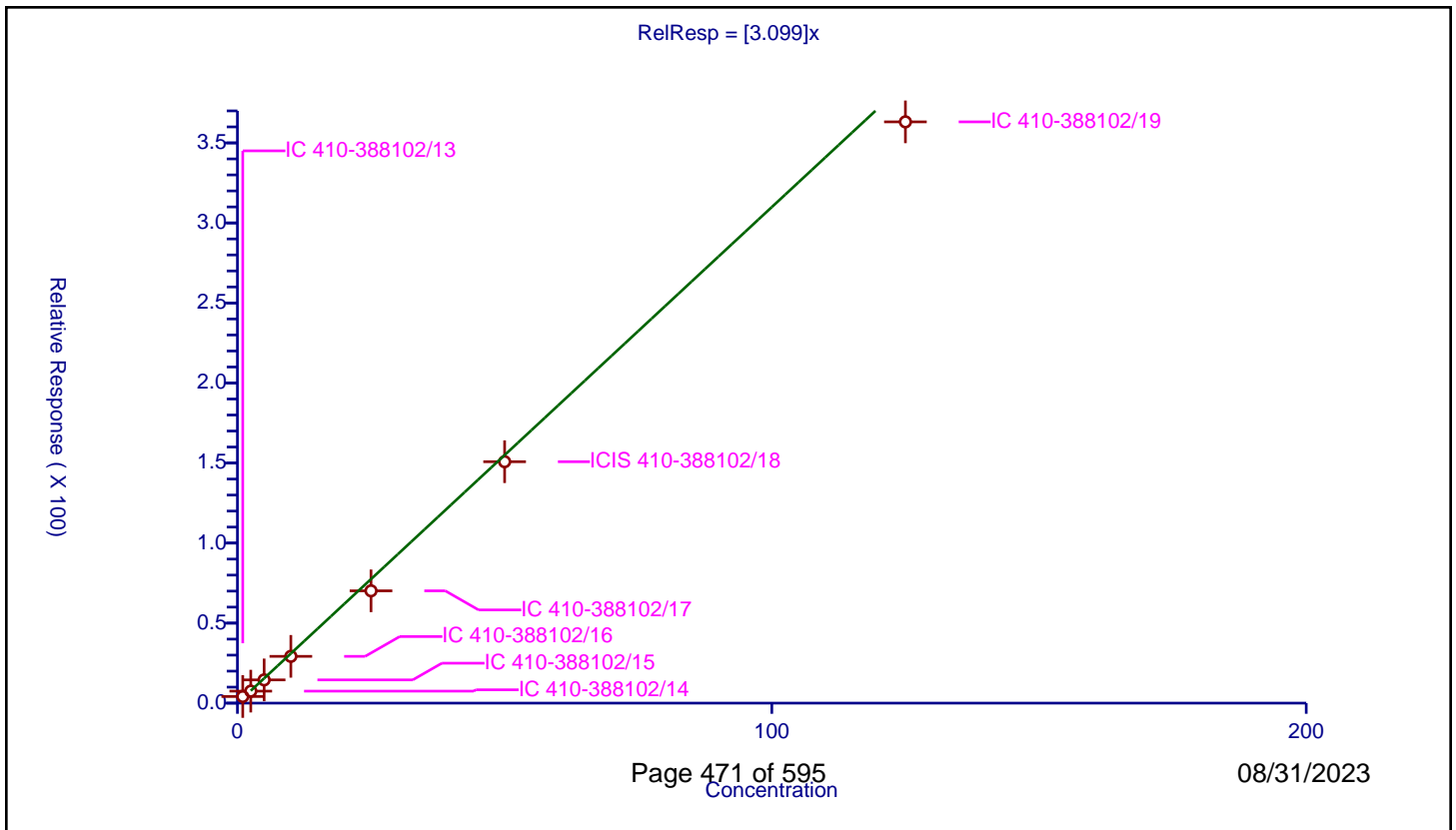
**/ 2-Nitropropane**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.099

Error Coefficients	
Standard Error:	440000
Relative Standard Error:	15.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.962

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	1.0	4.142955	50.0	116680.0	4.142955	Y
2	IC 410-388102/14	2.5	7.489161	50.0	132398.0	2.995665	Y
3	IC 410-388102/15	5.0	14.523979	50.0	133555.0	2.904796	Y
4	IC 410-388102/16	10.0	29.220514	50.0	127135.0	2.922051	Y
5	IC 410-388102/17	25.0	70.162188	50.0	139221.0	2.806488	Y
6	ICIS 410-388102/18	50.0	150.83311	50.0	130775.0	3.016662	Y
7	IC 410-388102/19	125.0	363.14574	50.0	134884.0	2.905166	Y



Calibration

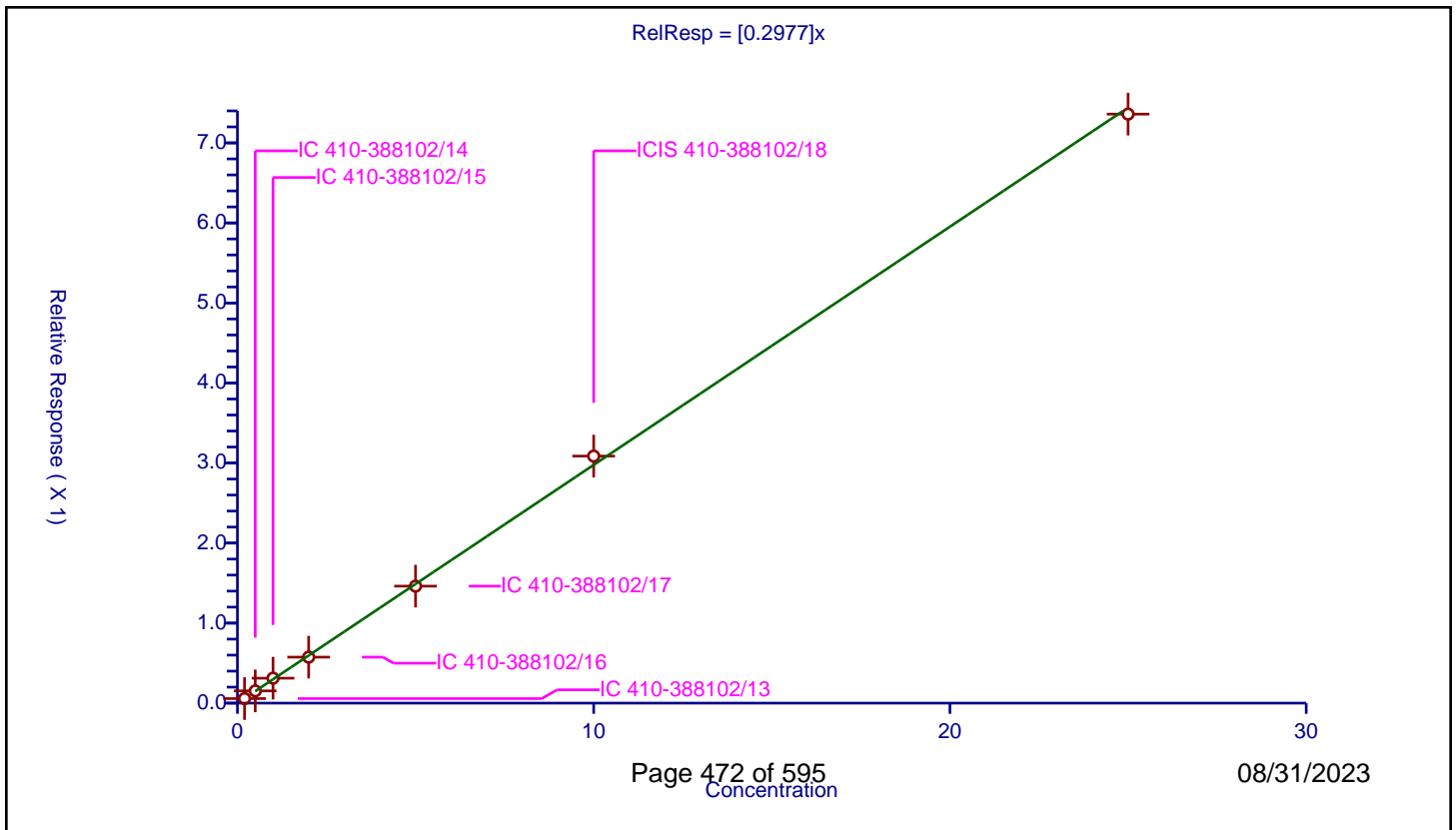
/ 1-Bromo-2-chloroethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2977

Error Coefficients	
Standard Error:	624000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.056693	10.0	1795291.0	0.283464	Y
2	IC 410-388102/14	0.5	0.152792	10.0	1753956.0	0.305583	Y
3	IC 410-388102/15	1.0	0.311786	10.0	1790586.0	0.311786	Y
4	IC 410-388102/16	2.0	0.574581	10.0	1802566.0	0.28729	Y
5	IC 410-388102/17	5.0	1.461865	10.0	1860774.0	0.292373	Y
6	ICIS 410-388102/18	10.0	3.08679	10.0	1807671.0	0.308679	Y
7	IC 410-388102/19	25.0	7.359803	10.0	1891215.0	0.294392	Y





**Calibration**

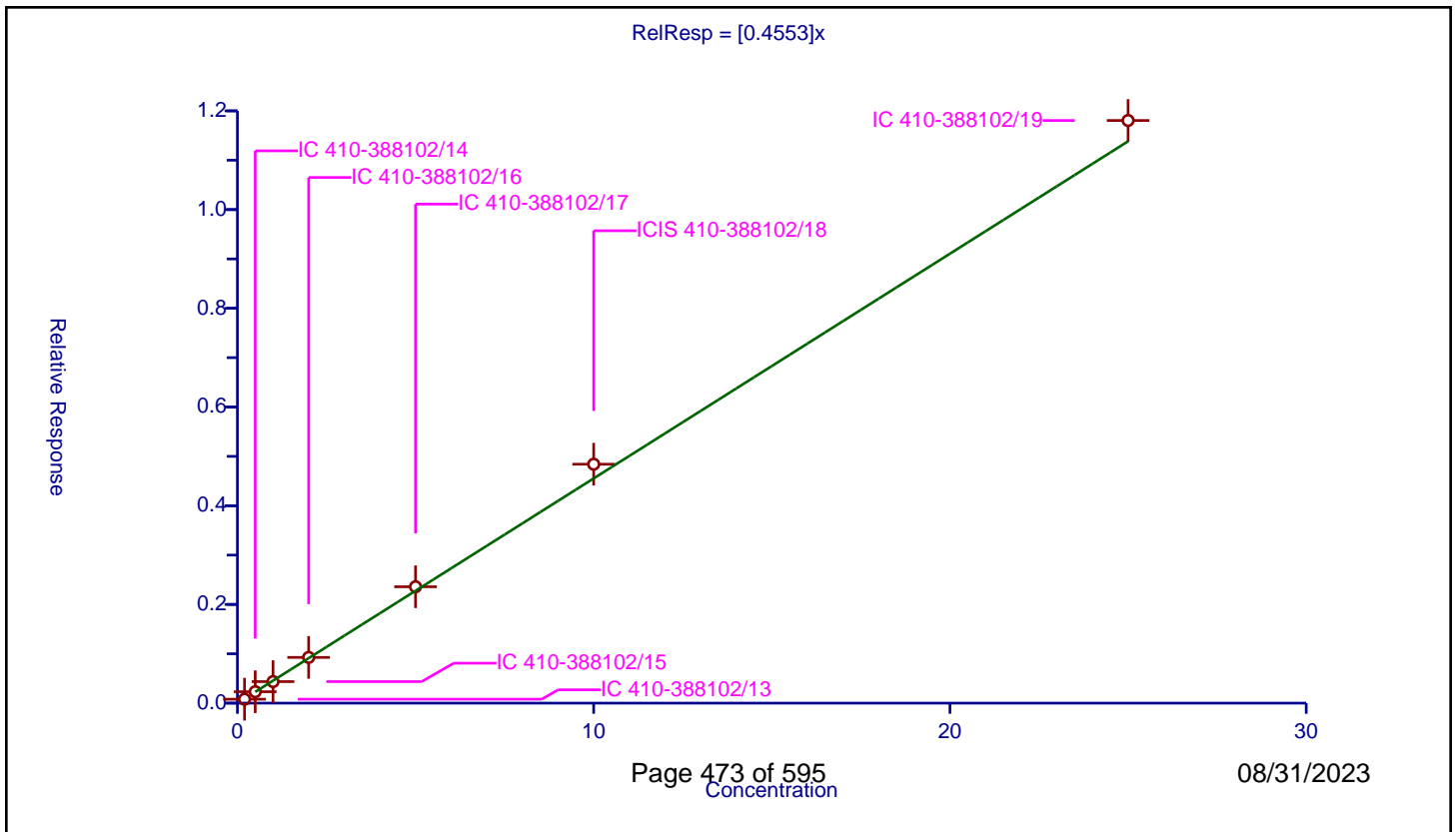
/ cis-1,3-Dichloropropene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4553

Error Coefficients	
Standard Error:	998000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.079508	10.0	1795291.0	0.39754	Y
2	IC 410-388102/14	0.5	0.231089	10.0	1753956.0	0.462178	Y
3	IC 410-388102/15	1.0	0.436472	10.0	1790586.0	0.436472	Y
4	IC 410-388102/16	2.0	0.926379	10.0	1802566.0	0.46319	Y
5	IC 410-388102/17	5.0	2.357901	10.0	1860774.0	0.47158	Y
6	ICIS 410-388102/18	10.0	4.840765	10.0	1807671.0	0.484076	Y
7	IC 410-388102/19	25.0	11.805369	10.0	1891215.0	0.472215	Y



**Calibration**

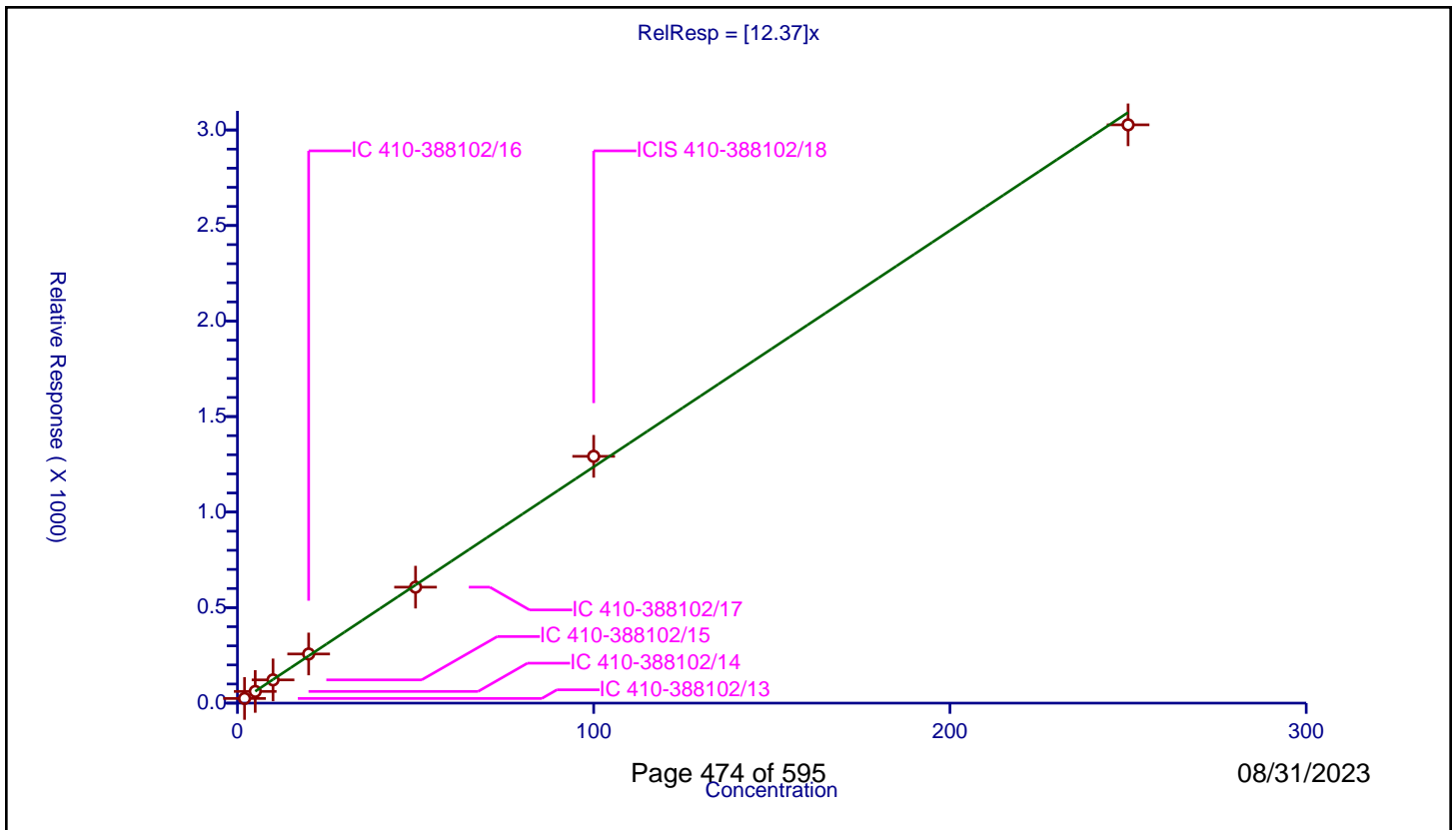
**/ 4-Methyl-2-pentanone (MIBK)**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	12.37

Error Coefficients	
Standard Error:	3680000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	2.0	24.274083	50.0	116680.0	12.137041	Y
2	IC 410-388102/14	5.0	61.244128	50.0	132398.0	12.248826	Y
3	IC 410-388102/15	10.0	121.588484	50.0	133555.0	12.158848	Y
4	IC 410-388102/16	20.0	257.226963	50.0	127135.0	12.861348	Y
5	IC 410-388102/17	50.0	607.091243	50.0	139221.0	12.141825	Y
6	ICIS 410-388102/18	100.0	1291.790862	50.0	130775.0	12.917909	Y
7	IC 410-388102/19	250.0	3027.132573	50.0	134884.0	12.10853	Y



**Calibration**

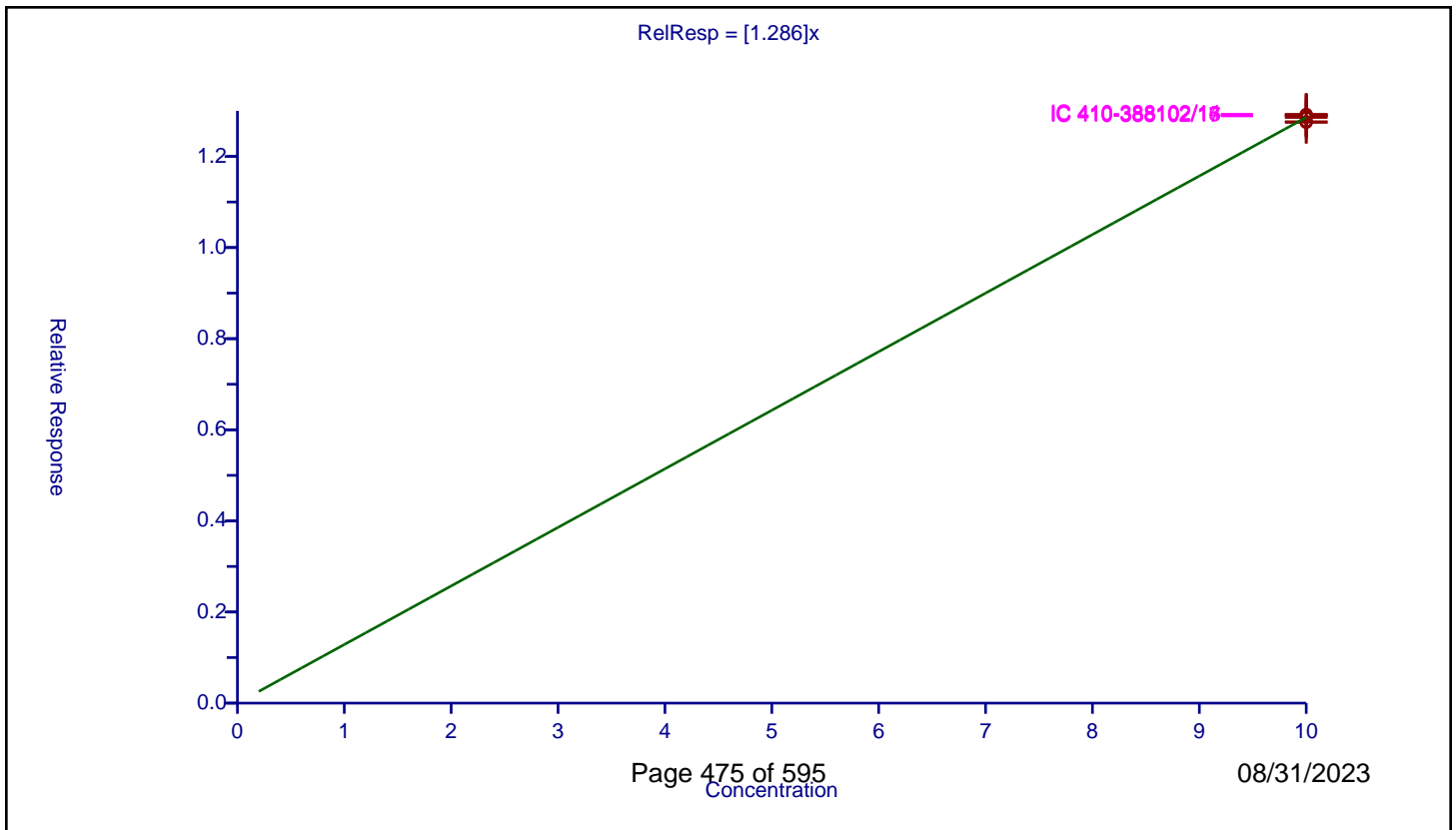
/ Toluene-d8 (Surr)

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.286

Error Coefficients	
Standard Error:	1990000
Relative Standard Error:	0.6
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0.0000000000000000222

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	10.0	12.909417	10.0	1414940.0	1.290942	Y
2	IC 410-388102/14	10.0	12.924011	10.0	1381168.0	1.292401	Y
3	IC 410-388102/15	10.0	12.762147	10.0	1413947.0	1.276215	Y
4	IC 410-388102/16	10.0	12.905264	10.0	1411844.0	1.290526	Y
5	IC 410-388102/17	10.0	12.890348	10.0	1479531.0	1.289035	Y
6	ICIS 410-388102/18	10.0	12.855298	10.0	1439976.0	1.28553	Y
7	IC 410-388102/19	10.0	12.74883	10.0	1508853.0	1.274883	Y



**Calibration**

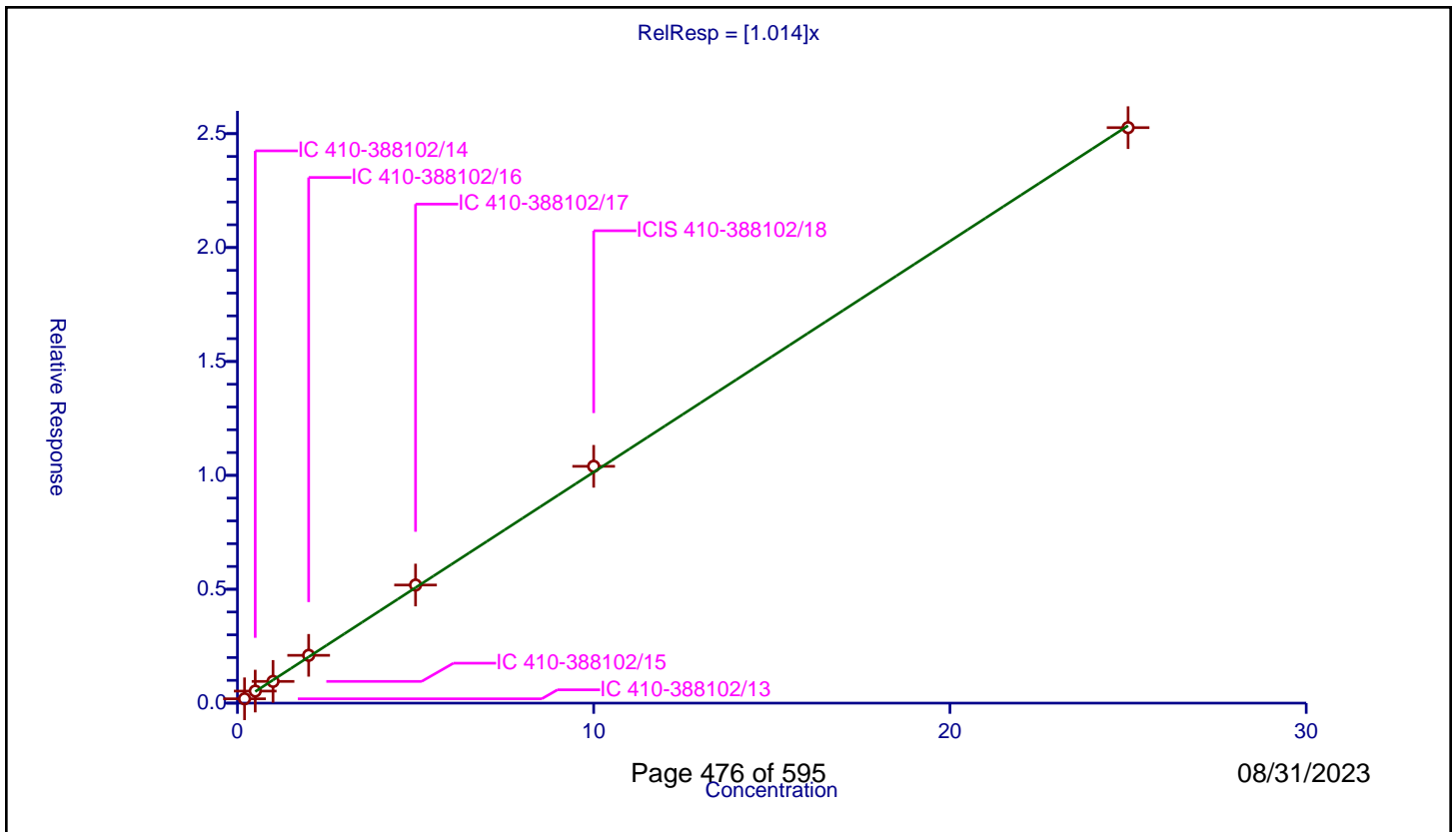
/ Toluene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.014

Error Coefficients	
Standard Error:	1710000
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 410-388102/13	0.2	0.189959	10.0	1414940.0	0.949793	Y
2	IC 410-388102/14	0.5	0.529421	10.0	1381168.0	1.058843	Y
3	IC 410-388102/15	1.0	0.953876	10.0	1413947.0	0.953876	Y
4	IC 410-388102/16	2.0	2.097633	10.0	1411844.0	1.048816	Y
5	IC 410-388102/17	5.0	5.184555	10.0	1479531.0	1.036911	Y
6	ICIS 410-388102/18	10.0	10.396111	10.0	1439976.0	1.039611	Y
7	IC 410-388102/19	25.0	25.264622	10.0	1508853.0	1.010585	Y



Calibration

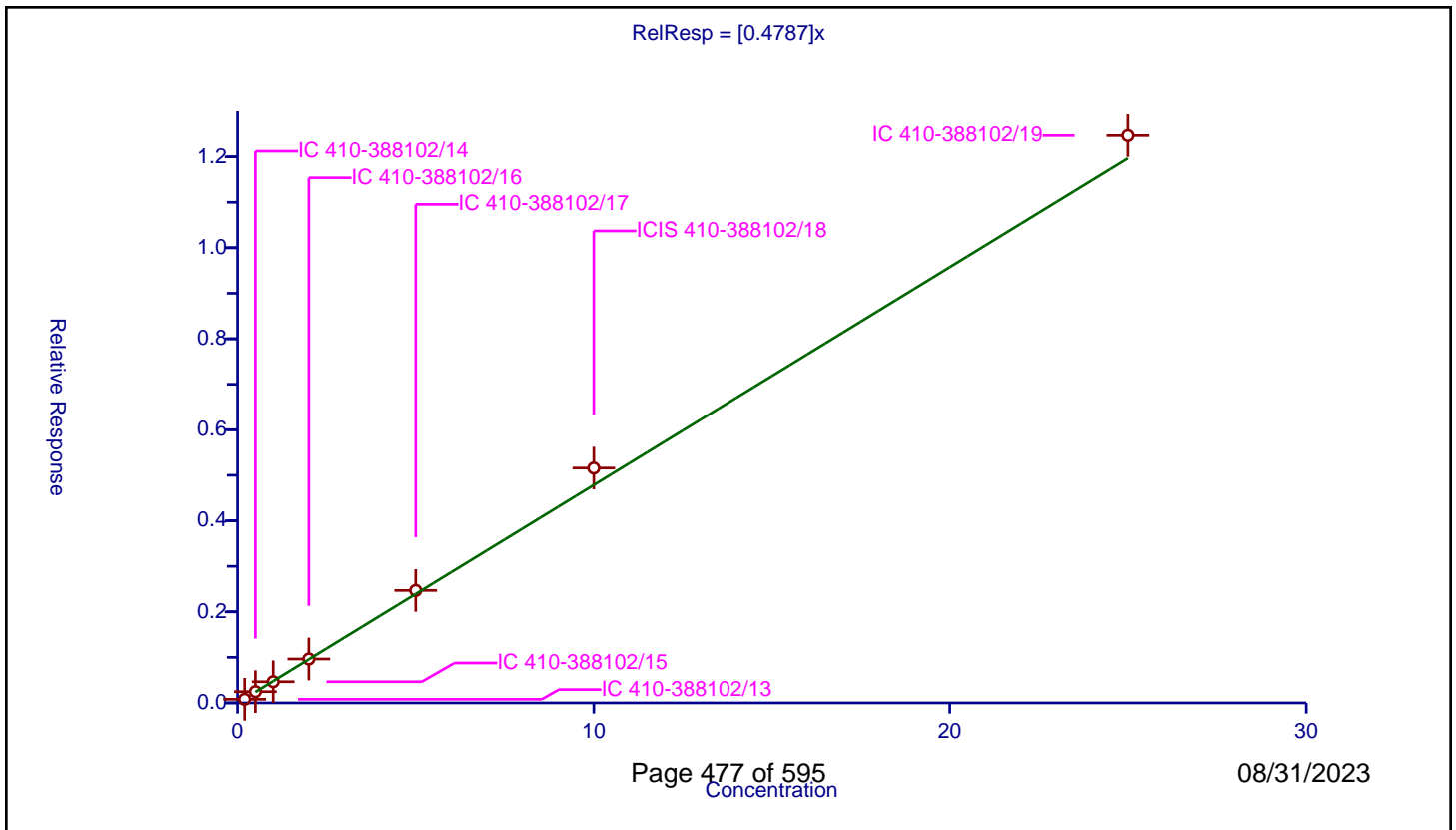
/ trans-1,3-Dichloropropene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4787

Error Coefficients	
Standard Error:	841000
Relative Standard Error:	7.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.080046	10.0	1414940.0	0.400229	Y
2	IC 410-388102/14	0.5	0.247254	10.0	1381168.0	0.494509	Y
3	IC 410-388102/15	1.0	0.465208	10.0	1413947.0	0.465208	Y
4	IC 410-388102/16	2.0	0.964292	10.0	1411844.0	0.482146	Y
5	IC 410-388102/17	5.0	2.470445	10.0	1479531.0	0.494089	Y
6	ICIS 410-388102/18	10.0	5.158148	10.0	1439976.0	0.515815	Y
7	IC 410-388102/19	25.0	12.466867	10.0	1508853.0	0.498675	Y



**Calibration**

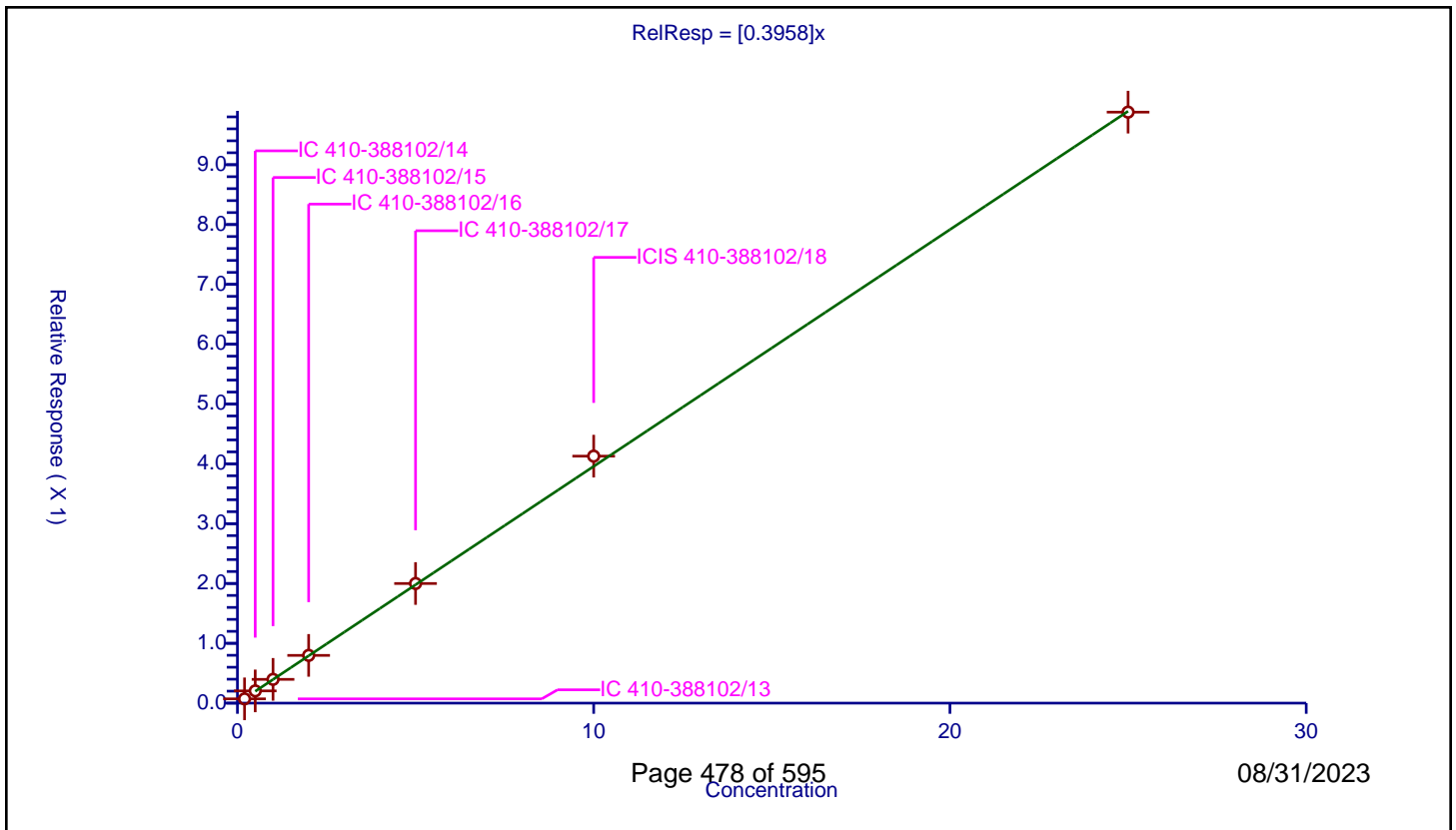
/ Ethyl methacrylate

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3958

Error Coefficients	
Standard Error:	668000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.071473	10.0	1414940.0	0.357365	Y
2	IC 410-388102/14	0.5	0.204486	10.0	1381168.0	0.408973	Y
3	IC 410-388102/15	1.0	0.397236	10.0	1413947.0	0.397236	Y
4	IC 410-388102/16	2.0	0.797871	10.0	1411844.0	0.398936	Y
5	IC 410-388102/17	5.0	1.99962	10.0	1479531.0	0.399924	Y
6	ICIS 410-388102/18	10.0	4.128805	10.0	1439976.0	0.41288	Y
7	IC 410-388102/19	25.0	9.87922	10.0	1508853.0	0.395169	Y



**Calibration**

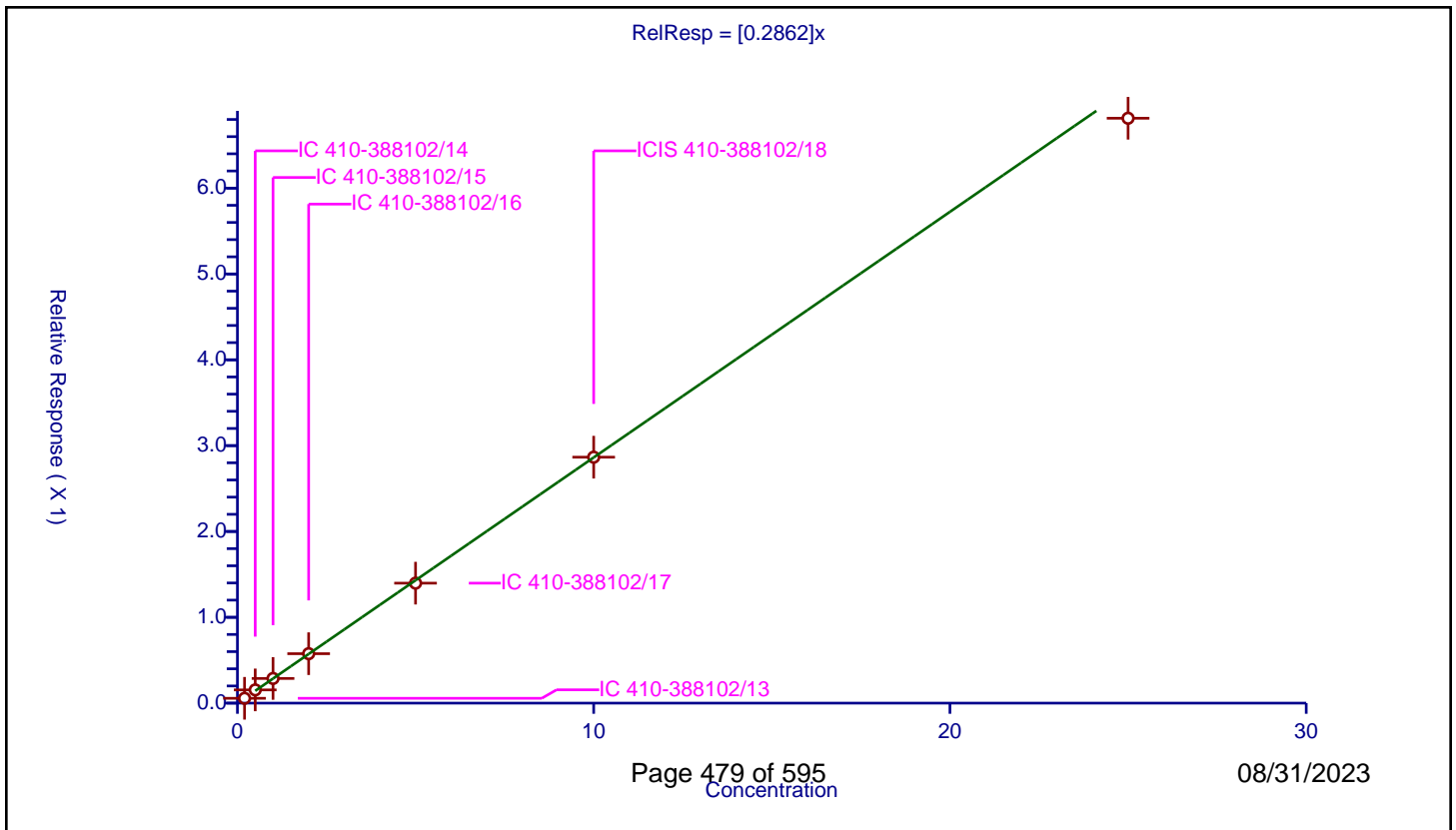
/ 1,1,2-Trichloroethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2862

Error Coefficients	
Standard Error:	462000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.056172	10.0	1414940.0	0.28086	Y
2	IC 410-388102/14	0.5	0.154159	10.0	1381168.0	0.308319	Y
3	IC 410-388102/15	1.0	0.287451	10.0	1413947.0	0.287451	Y
4	IC 410-388102/16	2.0	0.576176	10.0	1411844.0	0.288088	Y
5	IC 410-388102/17	5.0	1.397619	10.0	1479531.0	0.279524	Y
6	ICIS 410-388102/18	10.0	2.865367	10.0	1439976.0	0.286537	Y
7	IC 410-388102/19	25.0	6.814229	10.0	1508853.0	0.272569	Y



**Calibration**

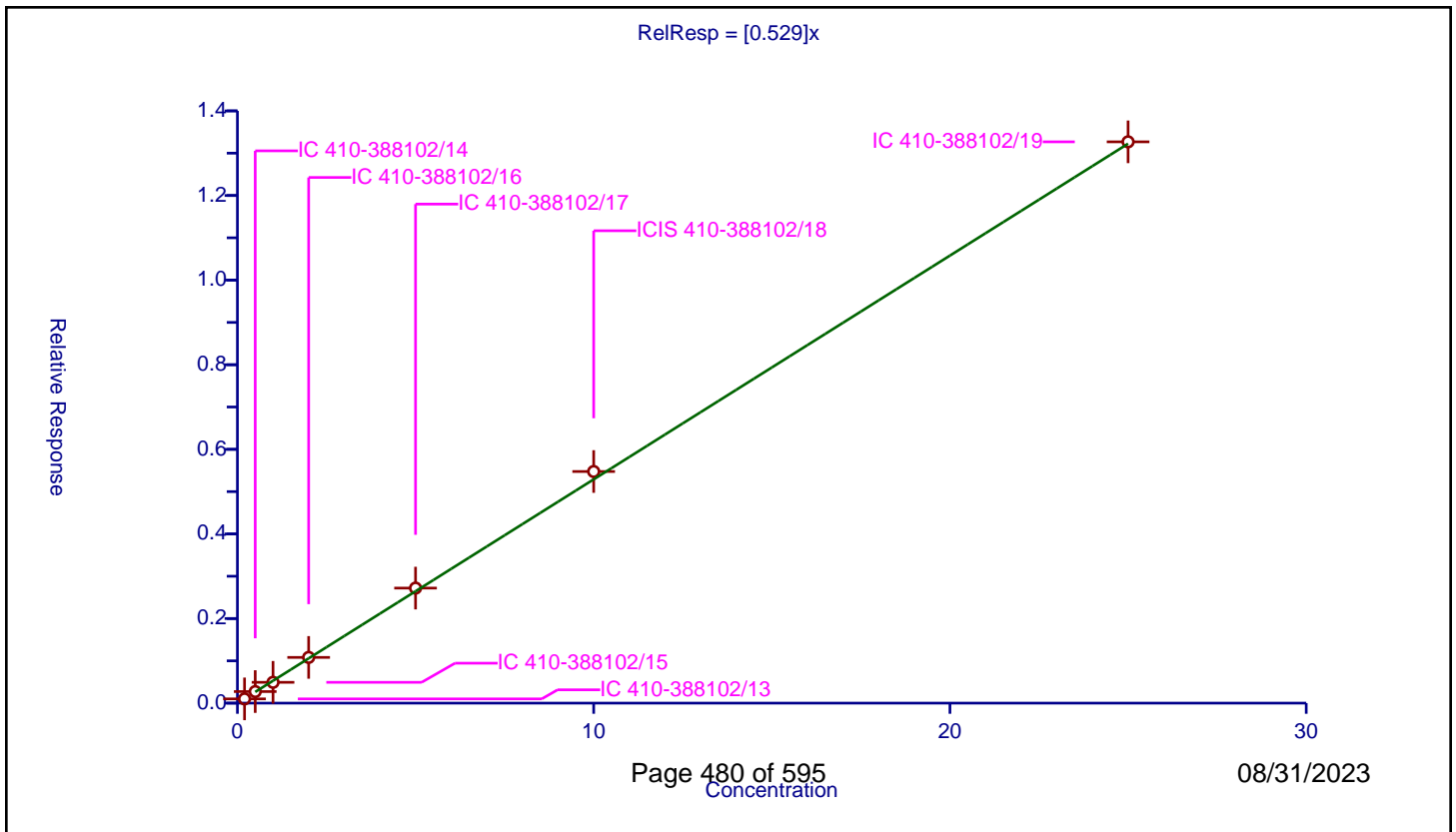
**/ Tetrachloroethene**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.529

Error Coefficients	
Standard Error:	896000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.100273	10.0	1414940.0	0.501364	Y
2	IC 410-388102/14	0.5	0.273327	10.0	1381168.0	0.546653	Y
3	IC 410-388102/15	1.0	0.492084	10.0	1413947.0	0.492084	Y
4	IC 410-388102/16	2.0	1.080976	10.0	1411844.0	0.540488	Y
5	IC 410-388102/17	5.0	2.719443	10.0	1479531.0	0.543889	Y
6	ICIS 410-388102/18	10.0	5.475473	10.0	1439976.0	0.547547	Y
7	IC 410-388102/19	25.0	13.268695	10.0	1508853.0	0.530748	Y





Calibration

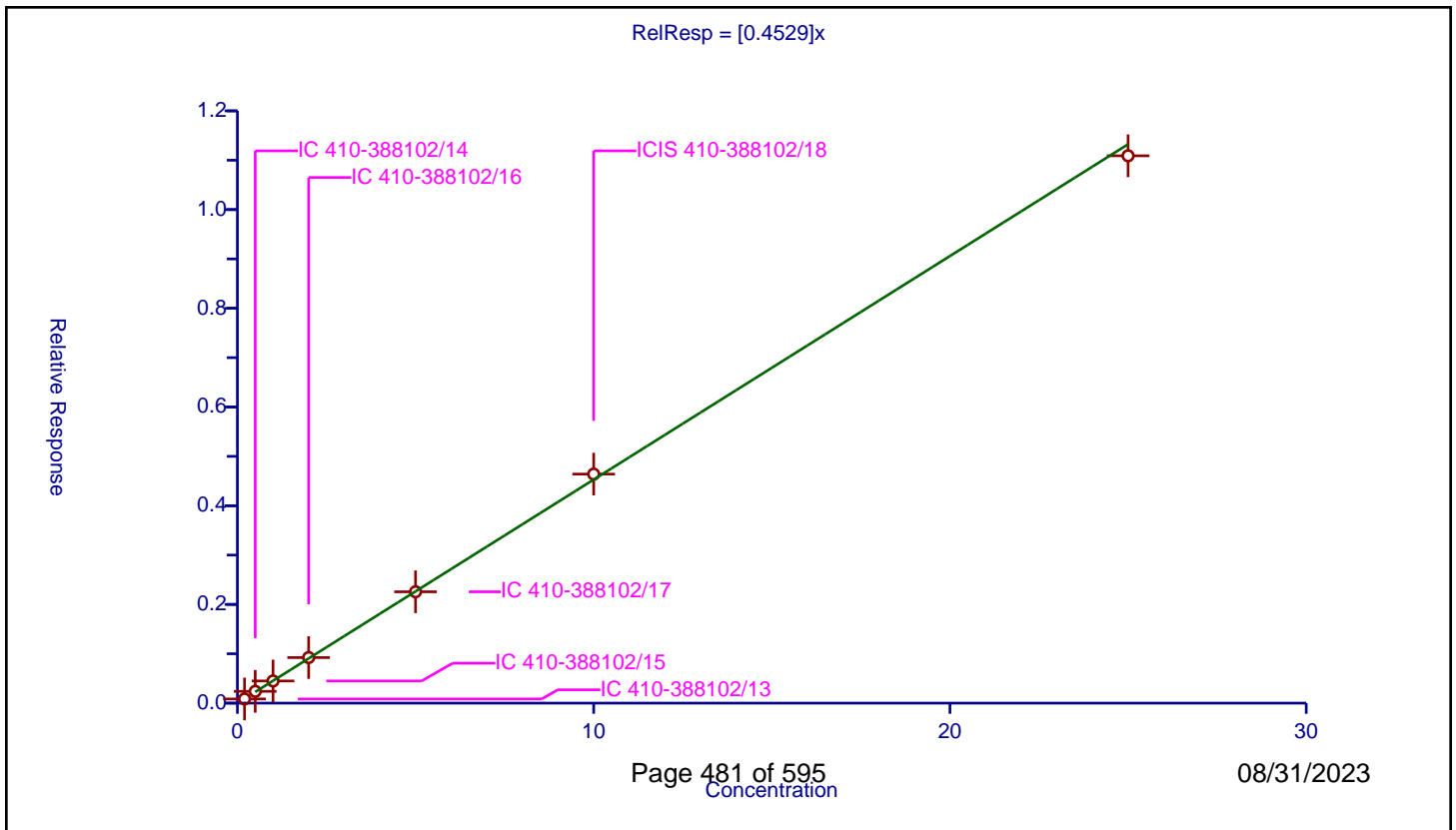
/ 1,3-Dichloropropane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4529

Error Coefficients	
Standard Error:	751000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.084654	10.0	1414940.0	0.423269	Y
2	IC 410-388102/14	0.5	0.238878	10.0	1381168.0	0.477755	Y
3	IC 410-388102/15	1.0	0.449034	10.0	1413947.0	0.449034	Y
4	IC 410-388102/16	2.0	0.92319	10.0	1411844.0	0.461595	Y
5	IC 410-388102/17	5.0	2.256188	10.0	1479531.0	0.451238	Y
6	ICIS 410-388102/18	10.0	4.640522	10.0	1439976.0	0.464052	Y
7	IC 410-388102/19	25.0	11.090391	10.0	1508853.0	0.443616	Y



Calibration

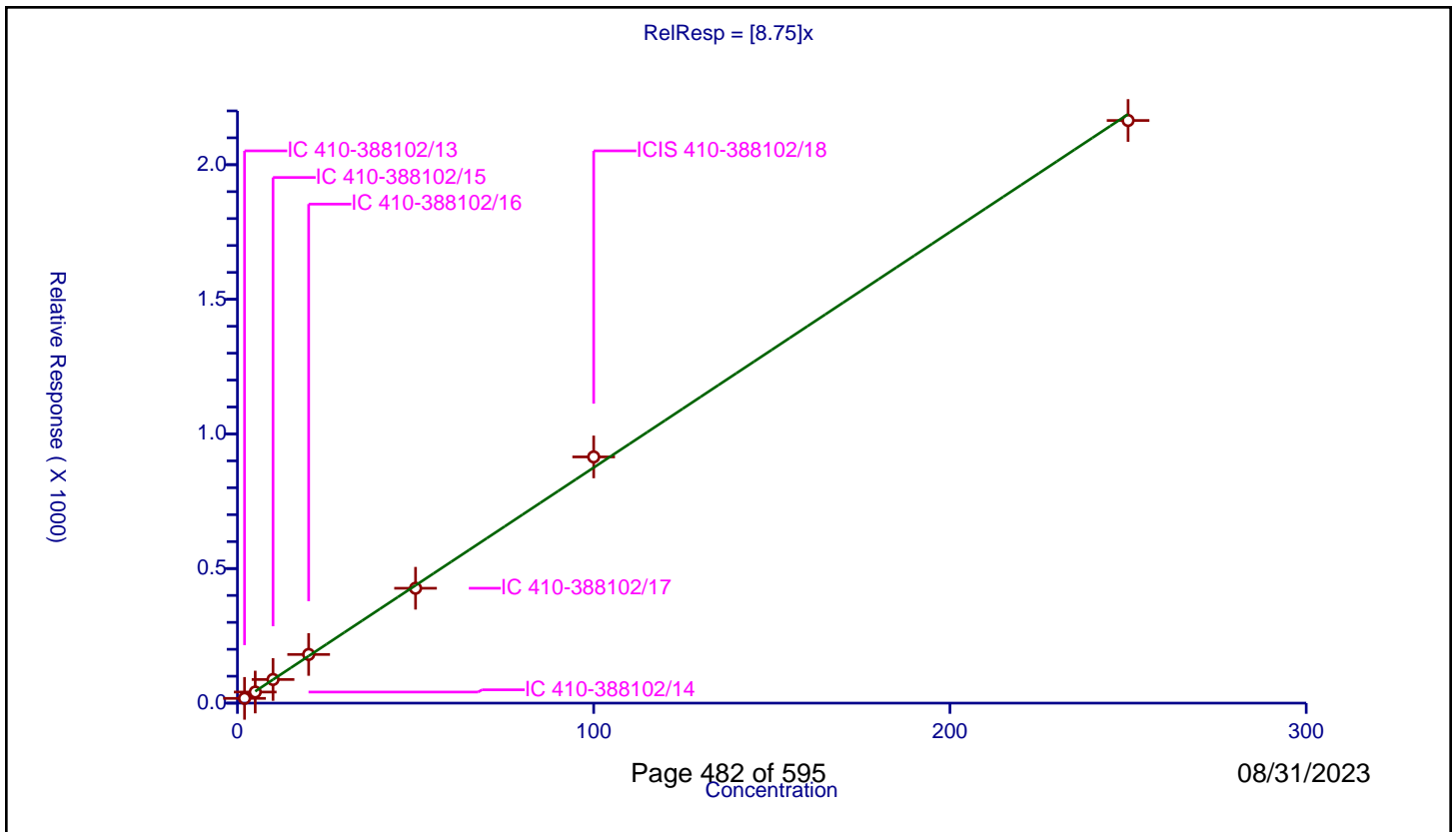
/ 2-Hexanone

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	8.75

Error Coefficients	
Standard Error:	2630000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	2.0	17.705691	50.0	116680.0	8.852845	Y
2	IC 410-388102/14	5.0	41.165274	50.0	132398.0	8.233055	Y
3	IC 410-388102/15	10.0	87.807645	50.0	133555.0	8.780764	Y
4	IC 410-388102/16	20.0	180.849097	50.0	127135.0	9.042455	Y
5	IC 410-388102/17	50.0	426.765	50.0	139221.0	8.5353	Y
6	ICIS 410-388102/18	100.0	914.665647	50.0	130775.0	9.146656	Y
7	IC 410-388102/19	250.0	2164.420539	50.0	134884.0	8.657682	Y



**Calibration**

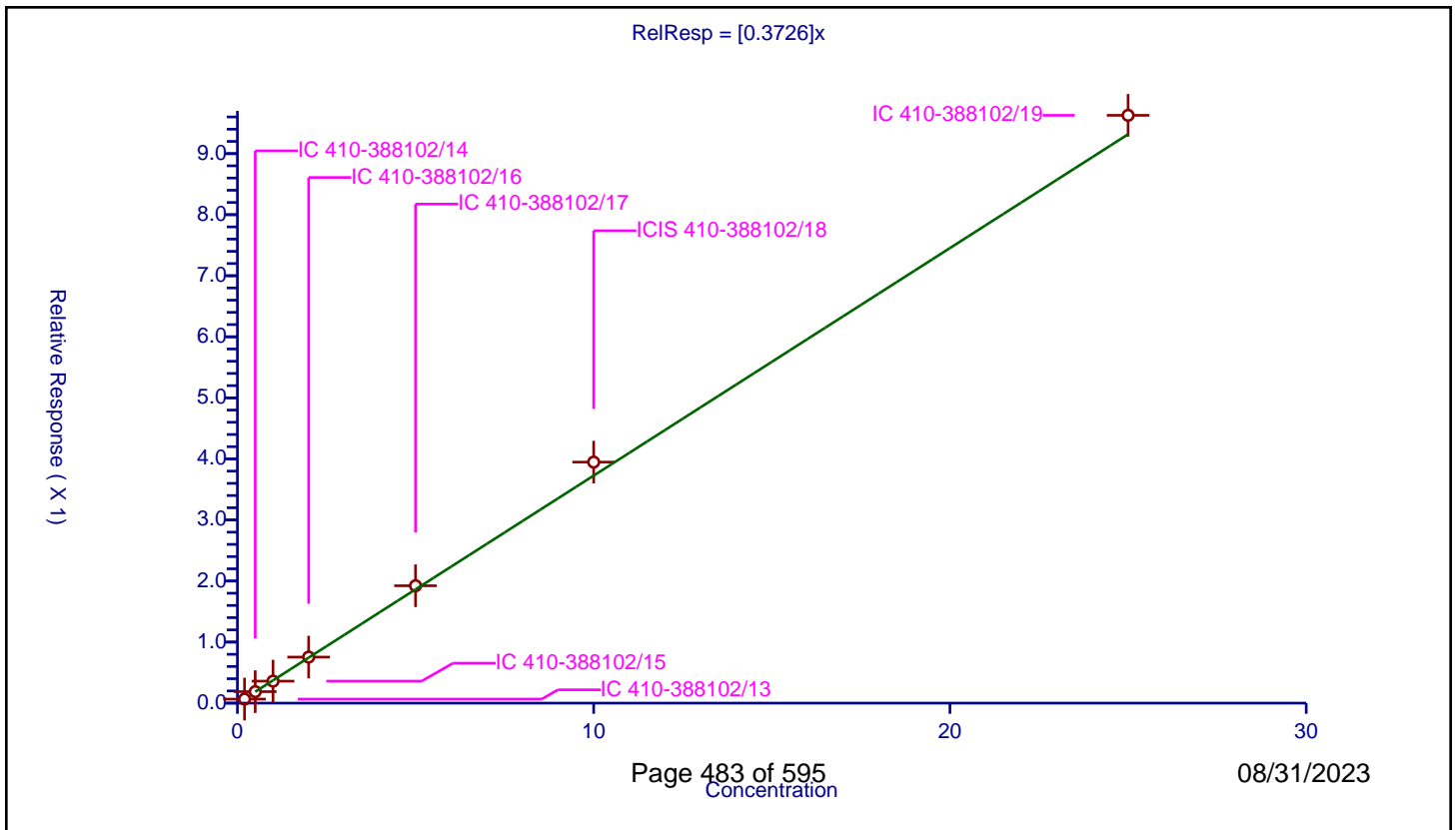
/ Chlorodibromomethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3726

Error Coefficients	
Standard Error:	649000
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 410-388102/13	0.2	0.066215	10.0	1414940.0	0.331074	Y
2	IC 410-388102/14	0.5	0.188022	10.0	1381168.0	0.376044	Y
3	IC 410-388102/15	1.0	0.359971	10.0	1413947.0	0.359971	Y
4	IC 410-388102/16	2.0	0.754113	10.0	1411844.0	0.377057	Y
5	IC 410-388102/17	5.0	1.922657	10.0	1479531.0	0.384531	Y
6	ICIS 410-388102/18	10.0	3.947677	10.0	1439976.0	0.394768	Y
7	IC 410-388102/19	25.0	9.627068	10.0	1508853.0	0.385083	Y



**Calibration**

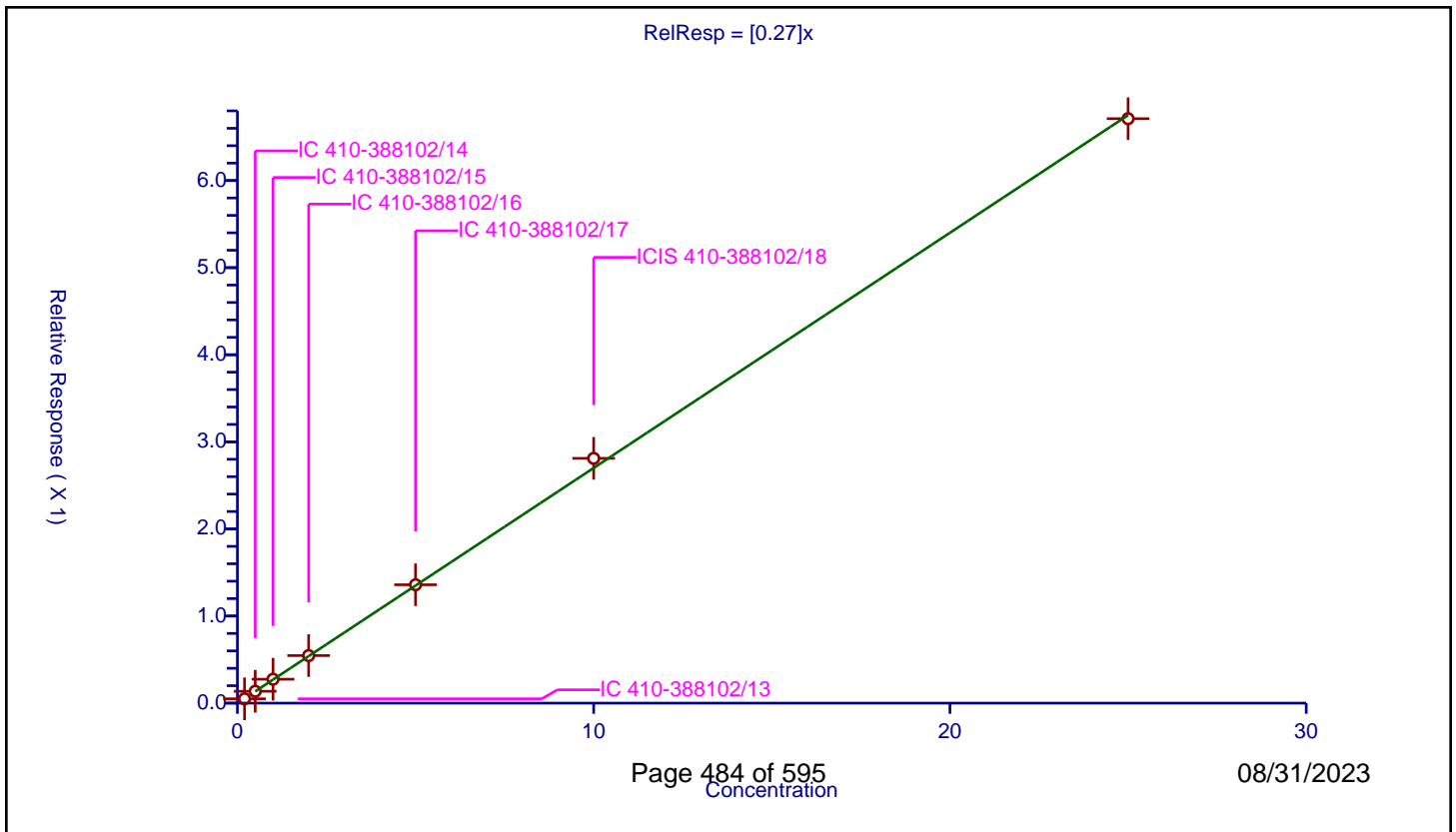
/ Ethylene Dibromide

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.27

Error Coefficients	
Standard Error:	454000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.049804	10.0	1414940.0	0.249021	Y
2	IC 410-388102/14	0.5	0.136225	10.0	1381168.0	0.272451	Y
3	IC 410-388102/15	1.0	0.274459	10.0	1413947.0	0.274459	Y
4	IC 410-388102/16	2.0	0.545882	10.0	1411844.0	0.272941	Y
5	IC 410-388102/17	5.0	1.359052	10.0	1479531.0	0.27181	Y
6	ICIS 410-388102/18	10.0	2.810345	10.0	1439976.0	0.281035	Y
7	IC 410-388102/19	25.0	6.710495	10.0	1508853.0	0.26842	Y



**Calibration**

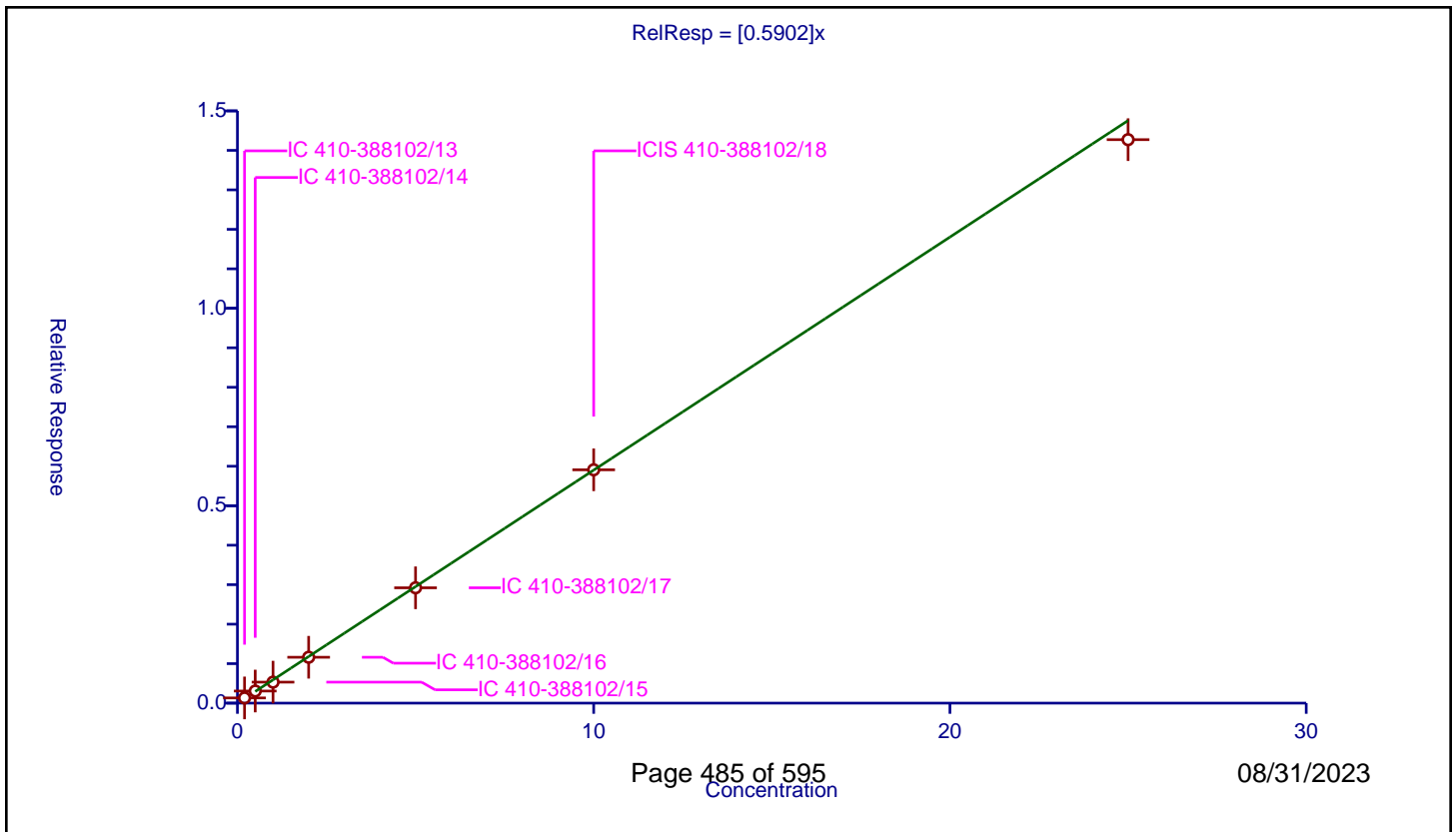
**/ 1-Chlorohexane**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5902

Error Coefficients	
Standard Error:	965000
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 410-388102/13	0.2	0.131822	10.0	1414940.0	0.659109	Y
2	IC 410-388102/14	0.5	0.306653	10.0	1381168.0	0.613307	Y
3	IC 410-388102/15	1.0	0.531823	10.0	1413947.0	0.531823	Y
4	IC 410-388102/16	2.0	1.162076	10.0	1411844.0	0.581038	Y
5	IC 410-388102/17	5.0	2.92146	10.0	1479531.0	0.584292	Y
6	ICIS 410-388102/18	10.0	5.909557	10.0	1439976.0	0.590956	Y
7	IC 410-388102/19	25.0	14.271715	10.0	1508853.0	0.570869	Y



**Calibration**

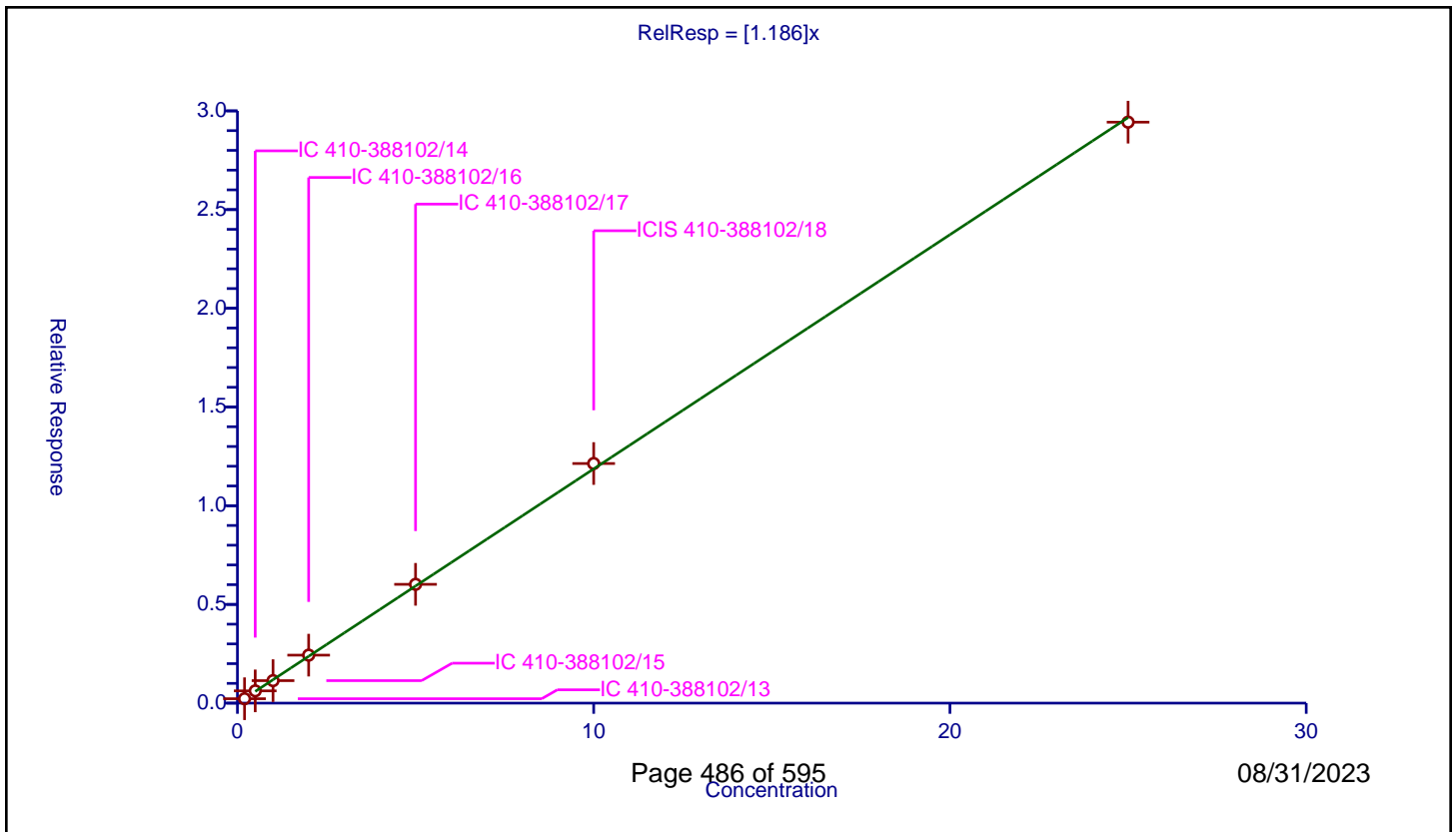
/ Chlorobenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.186

Error Coefficients	
Standard Error:	1990000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.2229	10.0	1414940.0	1.1145	Y
2	IC 410-388102/14	0.5	0.621054	10.0	1381168.0	1.242108	Y
3	IC 410-388102/15	1.0	1.138939	10.0	1413947.0	1.138939	Y
4	IC 410-388102/16	2.0	2.430701	10.0	1411844.0	1.21535	Y
5	IC 410-388102/17	5.0	6.017427	10.0	1479531.0	1.203485	Y
6	ICIS 410-388102/18	10.0	12.136834	10.0	1439976.0	1.213683	Y
7	IC 410-388102/19	25.0	29.429852	10.0	1508853.0	1.177194	Y



**Calibration**

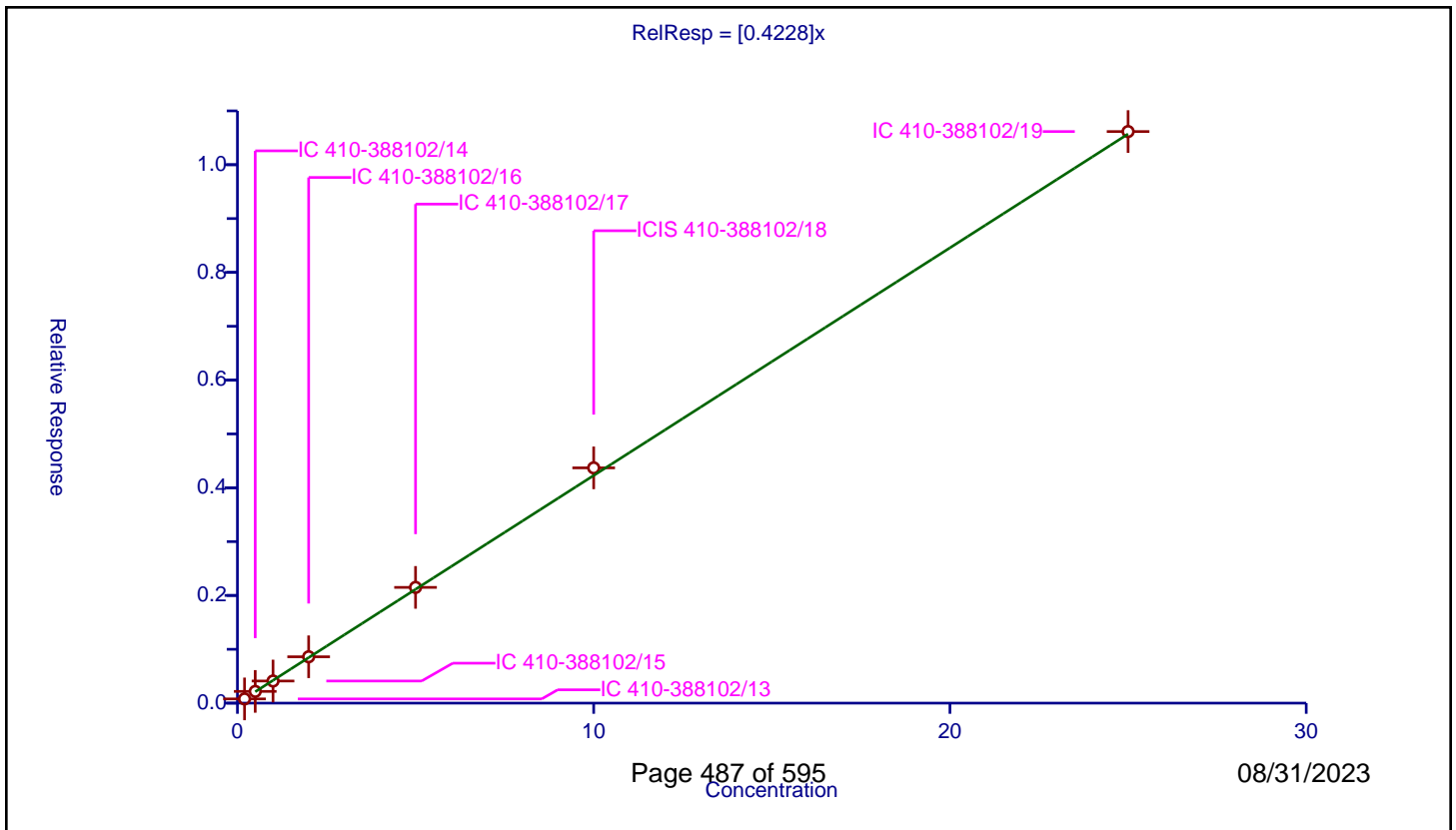
/ 1,1,1,2-Tetrachloroethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4228

Error Coefficients	
Standard Error:	717000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.07818	10.0	1414940.0	0.3909	Y
2	IC 410-388102/14	0.5	0.218141	10.0	1381168.0	0.436283	Y
3	IC 410-388102/15	1.0	0.410638	10.0	1413947.0	0.410638	Y
4	IC 410-388102/16	2.0	0.860867	10.0	1411844.0	0.430434	Y
5	IC 410-388102/17	5.0	2.149526	10.0	1479531.0	0.429905	Y
6	ICIS 410-388102/18	10.0	4.36992	10.0	1439976.0	0.436992	Y
7	IC 410-388102/19	25.0	10.616296	10.0	1508853.0	0.424652	Y



Calibration

/ Ethylbenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

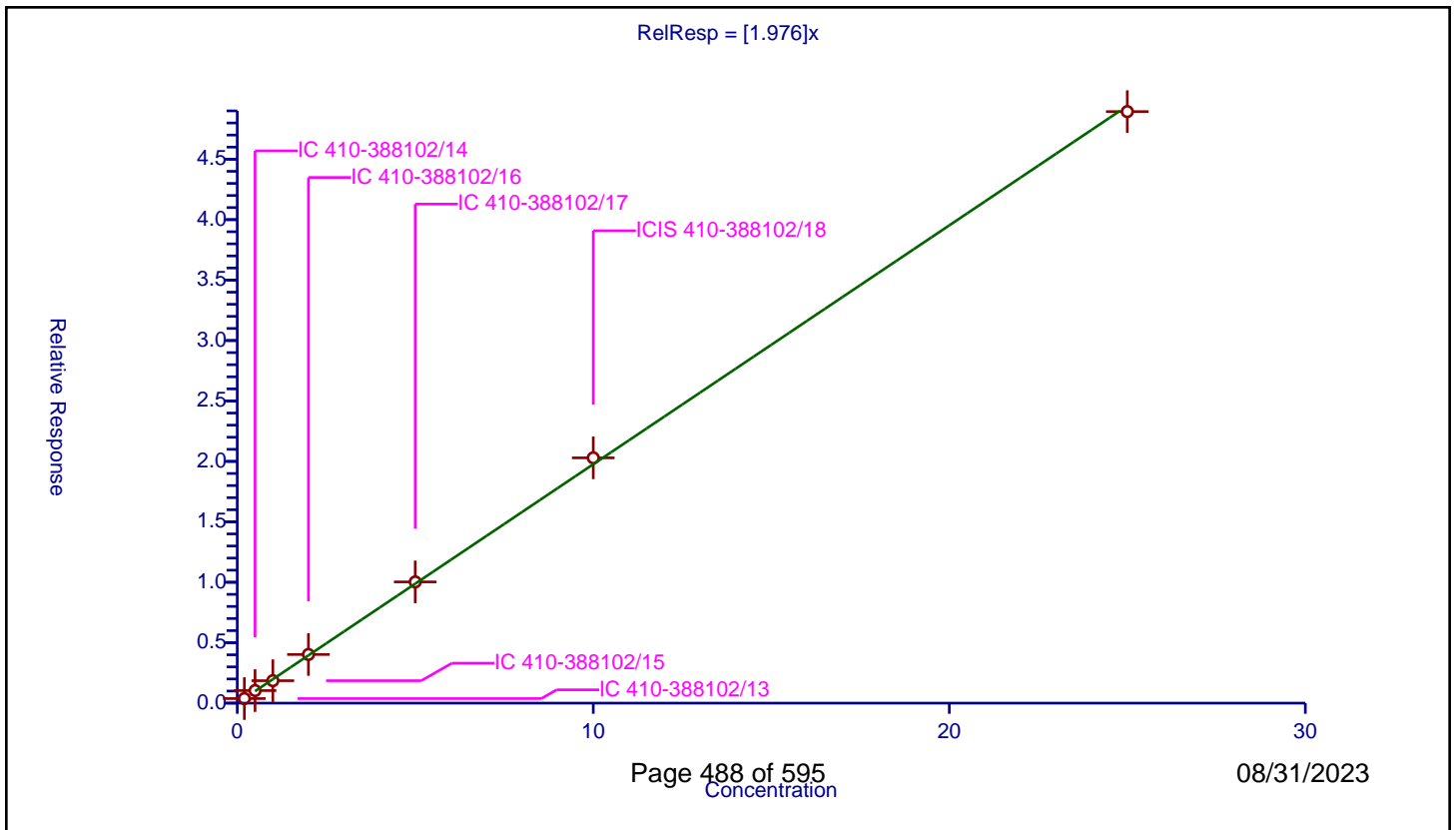
Curve Coefficients

Intercept: 0  
 Slope: 1.976

Error Coefficients

Standard Error: 3310000  
 Relative Standard Error: 4.0  
 Correlation Coefficient: 1.000  
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.378737	10.0	1414940.0	1.893685	Y
2	IC 410-388102/14	0.5	1.03894	10.0	1381168.0	2.077879	Y
3	IC 410-388102/15	1.0	1.857559	10.0	1413947.0	1.857559	Y
4	IC 410-388102/16	2.0	4.025785	10.0	1411844.0	2.012892	Y
5	IC 410-388102/17	5.0	10.028833	10.0	1479531.0	2.005767	Y
6	ICIS 410-388102/18	10.0	20.293755	10.0	1439976.0	2.029375	Y
7	IC 410-388102/19	25.0	48.940765	10.0	1508853.0	1.957631	Y





**Calibration**

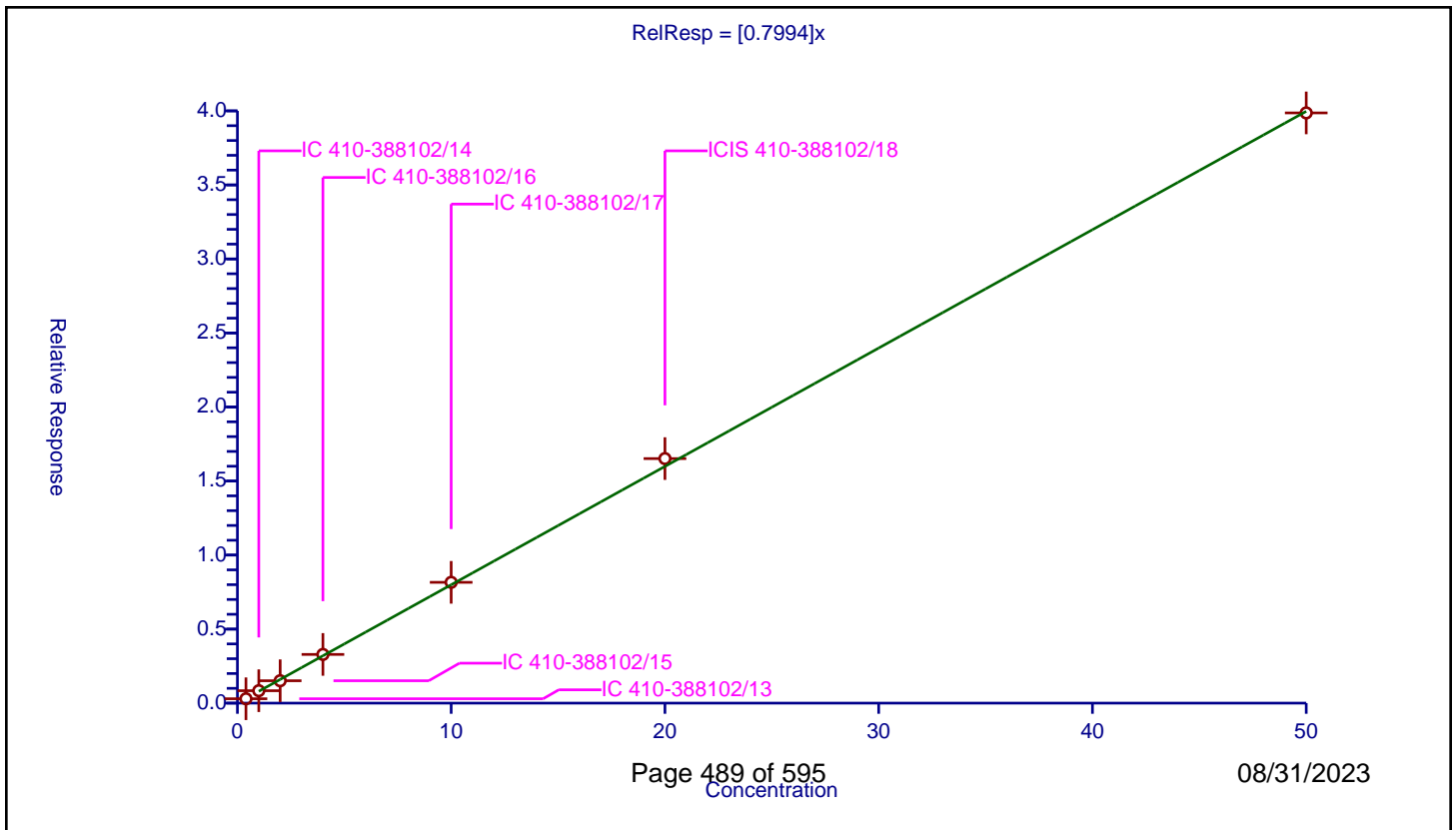
/ m-Xylene & p-Xylene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7994

Error Coefficients	
Standard Error:	2690000
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.4	0.295779	10.0	1414940.0	0.739448	Y
2	IC 410-388102/14	1.0	0.838906	10.0	1381168.0	0.838906	Y
3	IC 410-388102/15	2.0	1.512383	10.0	1413947.0	0.756192	Y
4	IC 410-388102/16	4.0	3.288876	10.0	1411844.0	0.822219	Y
5	IC 410-388102/17	10.0	8.158565	10.0	1479531.0	0.815857	Y
6	ICIS 410-388102/18	20.0	16.515942	10.0	1439976.0	0.825797	Y
7	IC 410-388102/19	50.0	39.864129	10.0	1508853.0	0.797283	Y



Calibration

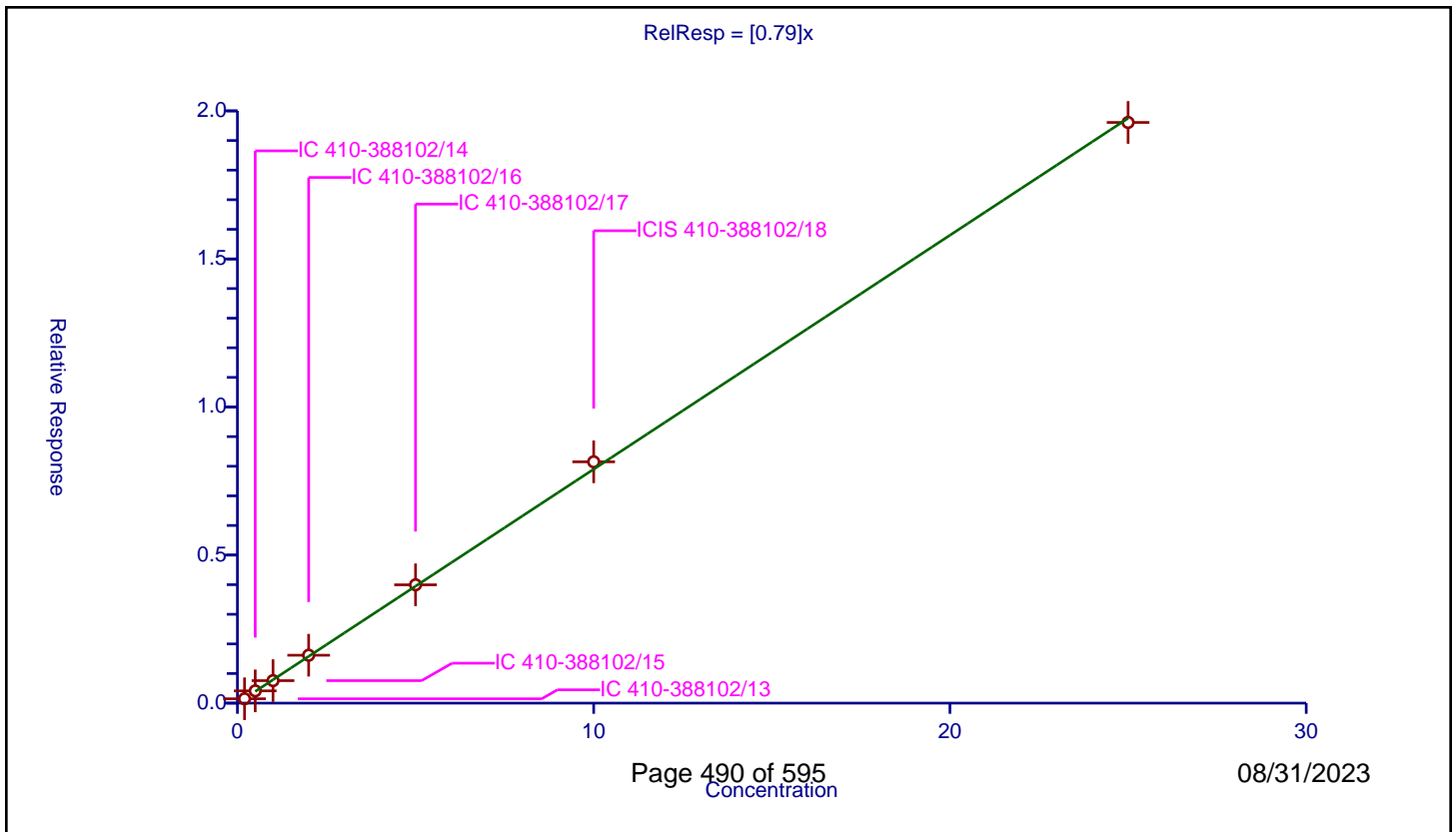
/ o-Xylene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.79

Error Coefficients	
Standard Error:	1330000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.147003	10.0	1414940.0	0.735013	Y
2	IC 410-388102/14	0.5	0.414222	10.0	1381168.0	0.828444	Y
3	IC 410-388102/15	1.0	0.75971	10.0	1413947.0	0.75971	Y
4	IC 410-388102/16	2.0	1.617487	10.0	1411844.0	0.808744	Y
5	IC 410-388102/17	5.0	3.995246	10.0	1479531.0	0.799049	Y
6	ICIS 410-388102/18	10.0	8.149566	10.0	1439976.0	0.814957	Y
7	IC 410-388102/19	25.0	19.609491	10.0	1508853.0	0.78438	Y



Calibration

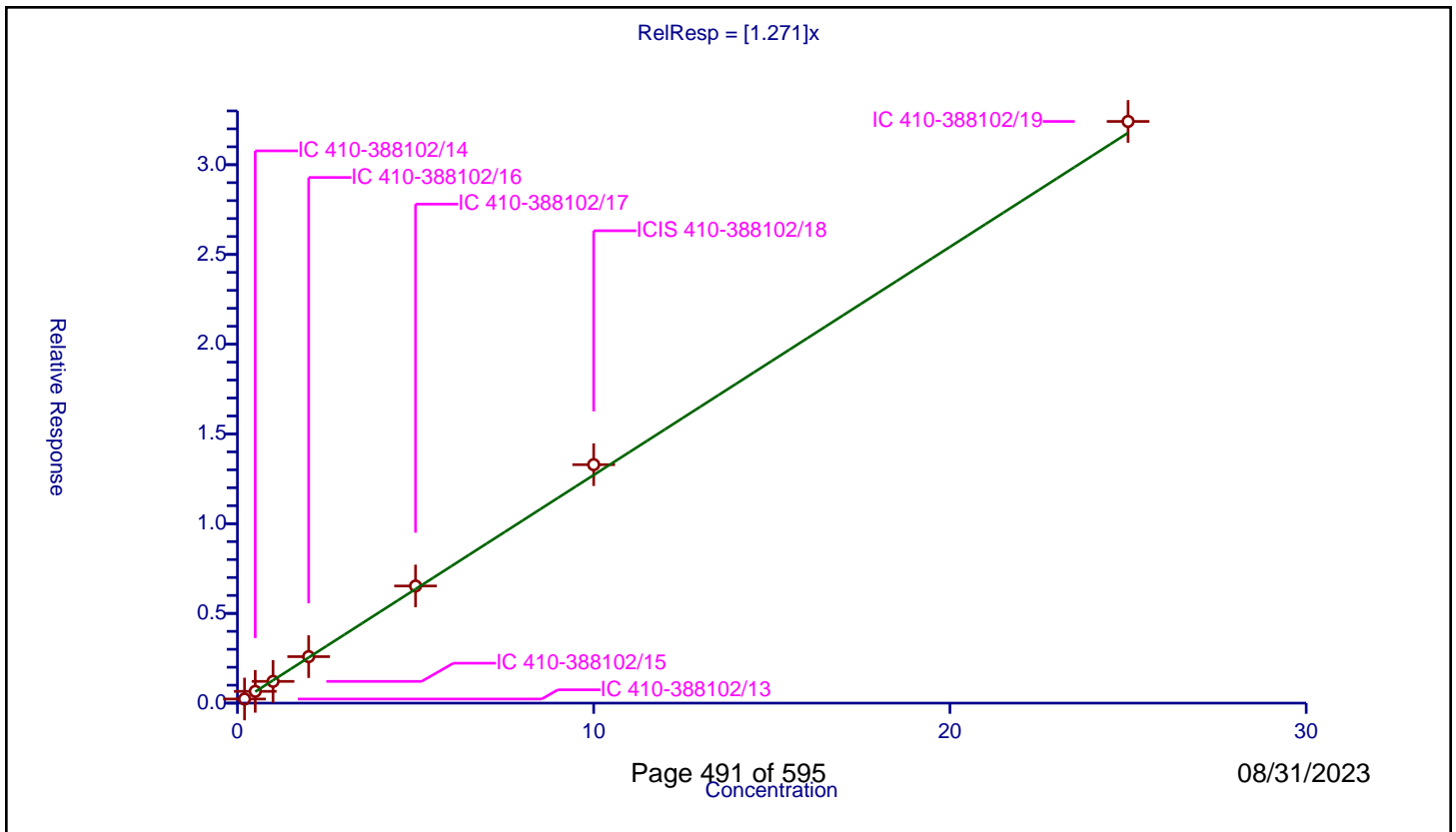
/ Styrene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.271

Error Coefficients	
Standard Error:	2190000
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 410-388102/13	0.2	0.229077	10.0	1414940.0	1.145384	Y
2	IC 410-388102/14	0.5	0.657161	10.0	1381168.0	1.314322	Y
3	IC 410-388102/15	1.0	1.211785	10.0	1413947.0	1.211785	Y
4	IC 410-388102/16	2.0	2.590414	10.0	1411844.0	1.295207	Y
5	IC 410-388102/17	5.0	6.527379	10.0	1479531.0	1.305476	Y
6	ICIS 410-388102/18	10.0	13.287666	10.0	1439976.0	1.328767	Y
7	IC 410-388102/19	25.0	32.412574	10.0	1508853.0	1.296503	Y



**Calibration**

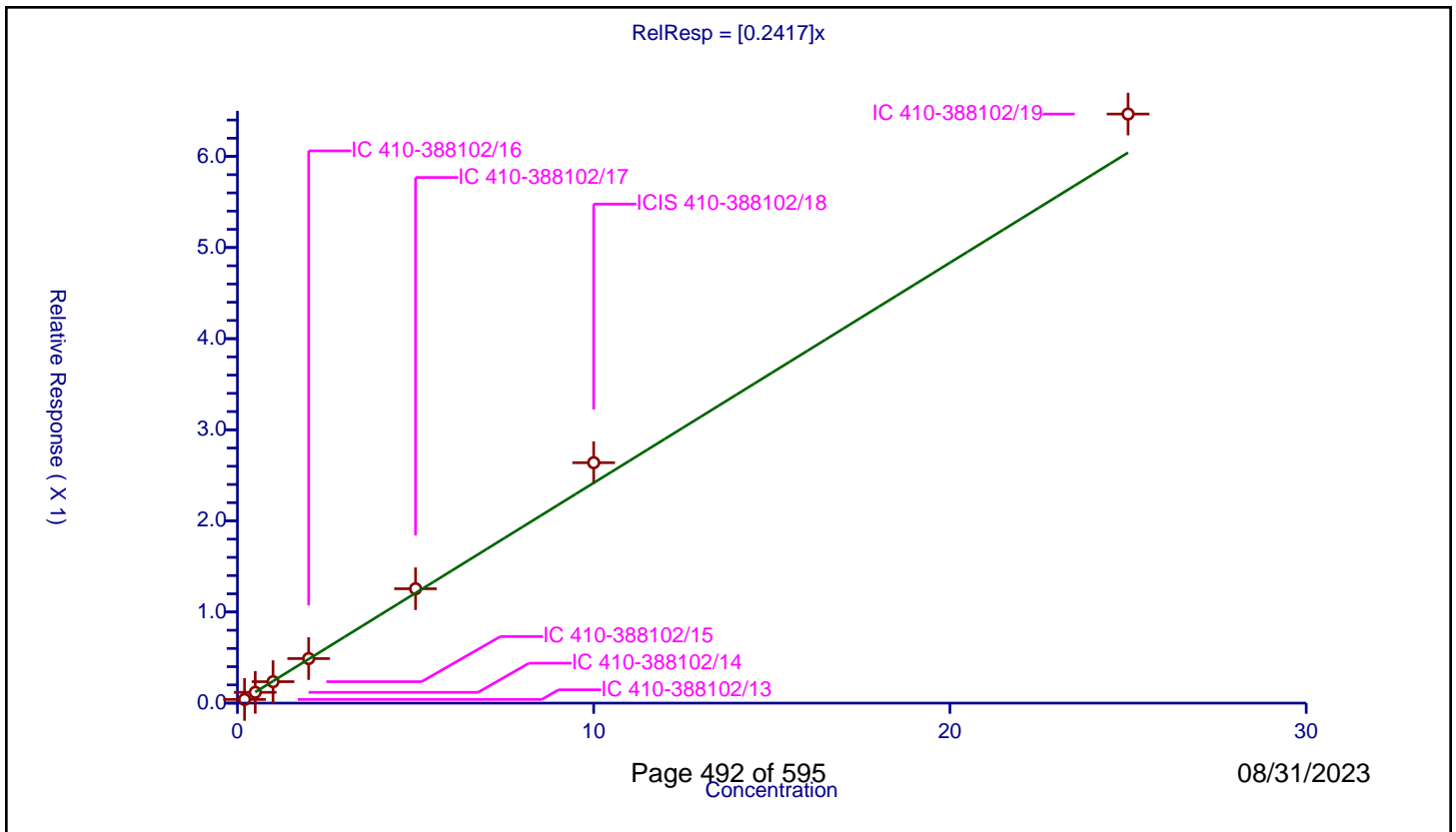
/ Bromoform

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2417

Error Coefficients	
Standard Error:	435000
Relative Standard Error:	8.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.040242	10.0	1414940.0	0.20121	Y
2	IC 410-388102/14	0.5	0.11853	10.0	1381168.0	0.23706	Y
3	IC 410-388102/15	1.0	0.235532	10.0	1413947.0	0.235532	Y
4	IC 410-388102/16	2.0	0.488815	10.0	1411844.0	0.244407	Y
5	IC 410-388102/17	5.0	1.255296	10.0	1479531.0	0.251059	Y
6	ICIS 410-388102/18	10.0	2.638975	10.0	1439976.0	0.263897	Y
7	IC 410-388102/19	25.0	6.46562	10.0	1508853.0	0.258625	Y



Calibration

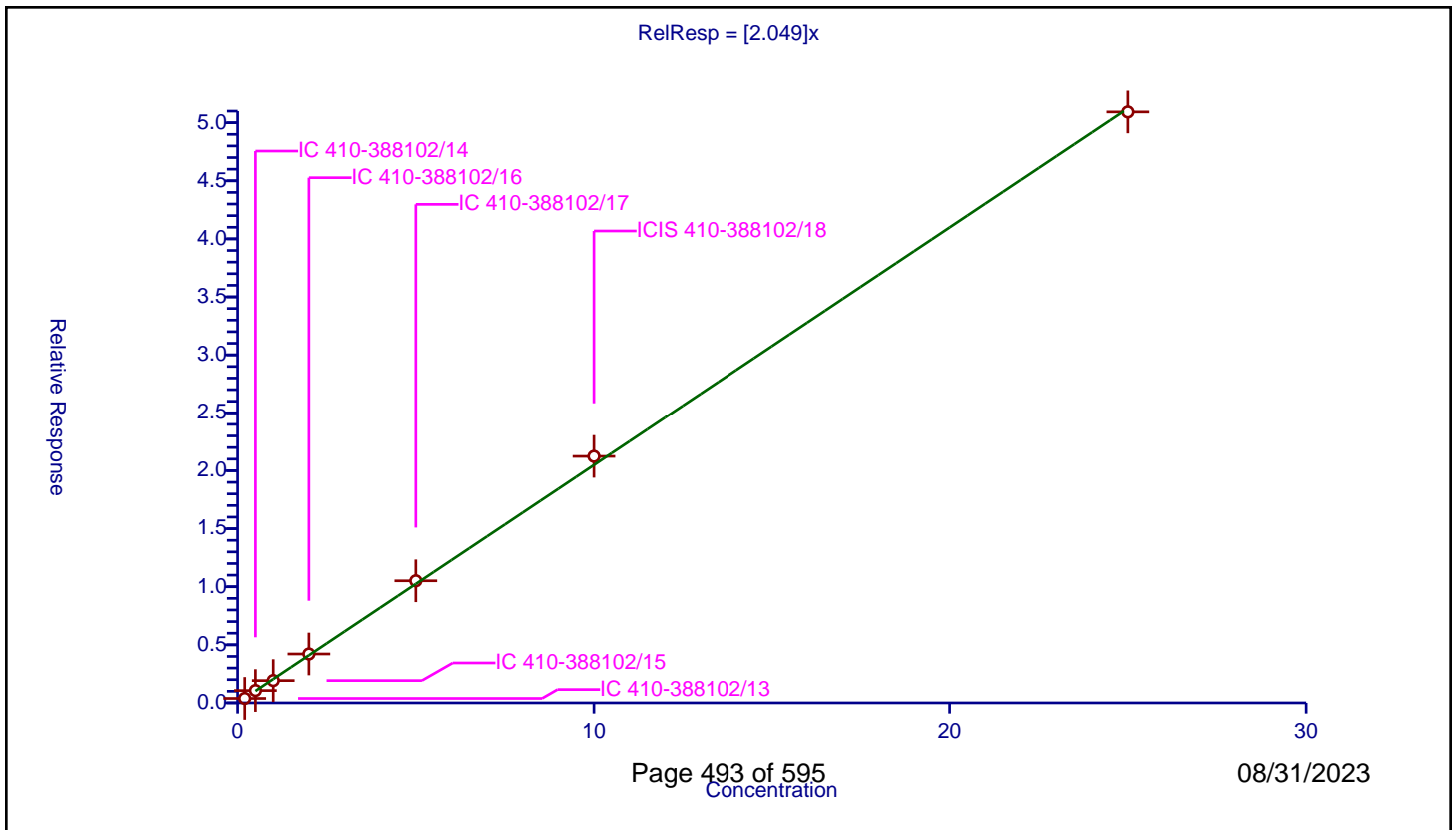
/ Isopropylbenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.049

Error Coefficients	
Standard Error:	3450000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.385069	10.0	1414940.0	1.925347	Y
2	IC 410-388102/14	0.5	1.064012	10.0	1381168.0	2.128025	Y
3	IC 410-388102/15	1.0	1.919839	10.0	1413947.0	1.919839	Y
4	IC 410-388102/16	2.0	4.213128	10.0	1411844.0	2.106564	Y
5	IC 410-388102/17	5.0	10.514231	10.0	1479531.0	2.102846	Y
6	ICIS 410-388102/18	10.0	21.240236	10.0	1439976.0	2.124024	Y
7	IC 410-388102/19	25.0	50.929222	10.0	1508853.0	2.037169	Y



**Calibration**

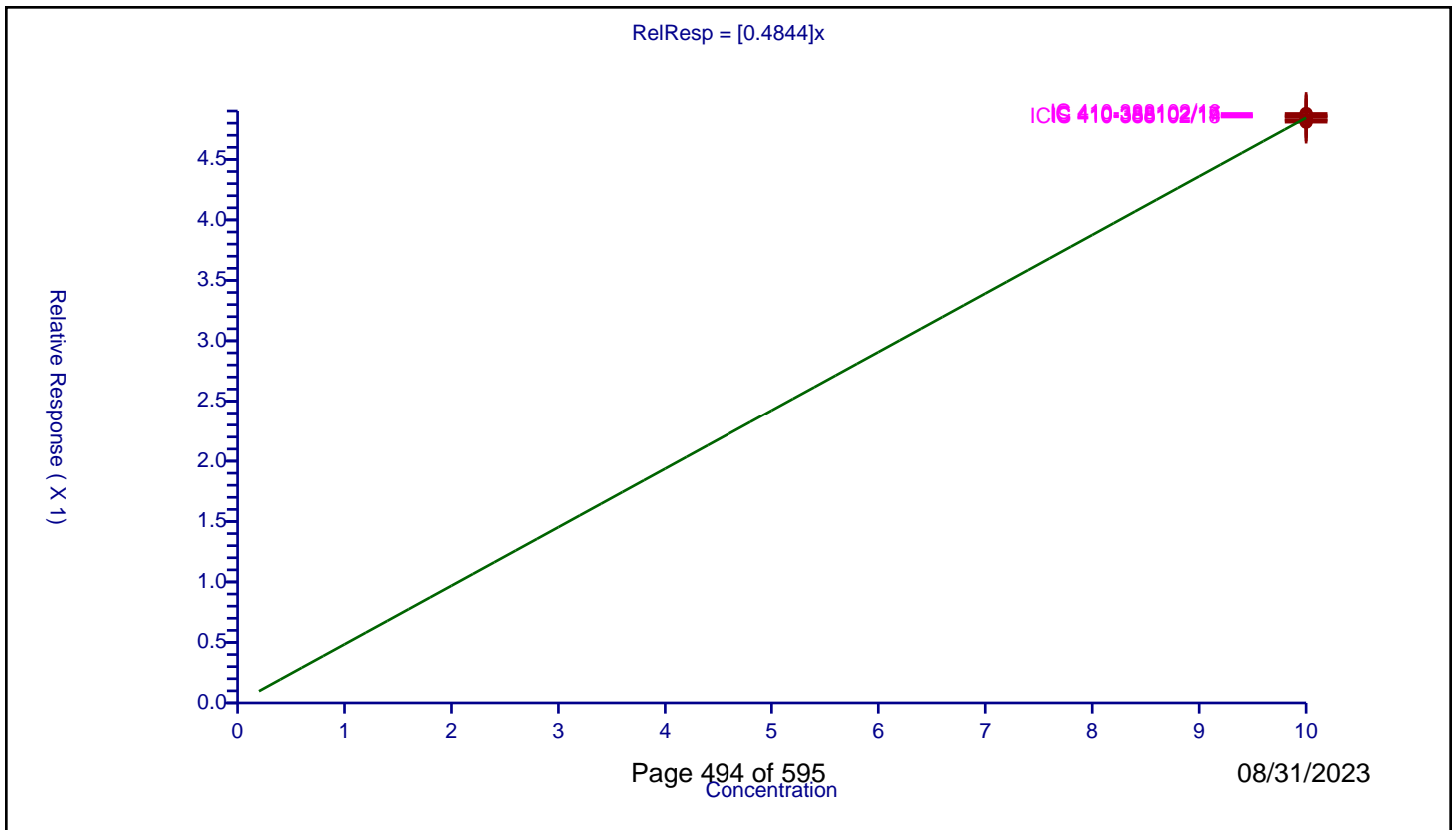
/ 4-Bromofluorobenzene (Surr)

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4844

Error Coefficients	
Standard Error:	752000
Relative Standard Error:	0.5
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	10.0	4.828813	10.0	1414940.0	0.482881	Y
2	IC 410-388102/14	10.0	4.855231	10.0	1381168.0	0.485523	Y
3	IC 410-388102/15	10.0	4.823894	10.0	1413947.0	0.482389	Y
4	IC 410-388102/16	10.0	4.87981	10.0	1411844.0	0.487981	Y
5	IC 410-388102/17	10.0	4.865332	10.0	1479531.0	0.486533	Y
6	ICIS 410-388102/18	10.0	4.850386	10.0	1439976.0	0.485039	Y
7	IC 410-388102/19	10.0	4.808003	10.0	1508853.0	0.4808	Y



**Calibration**

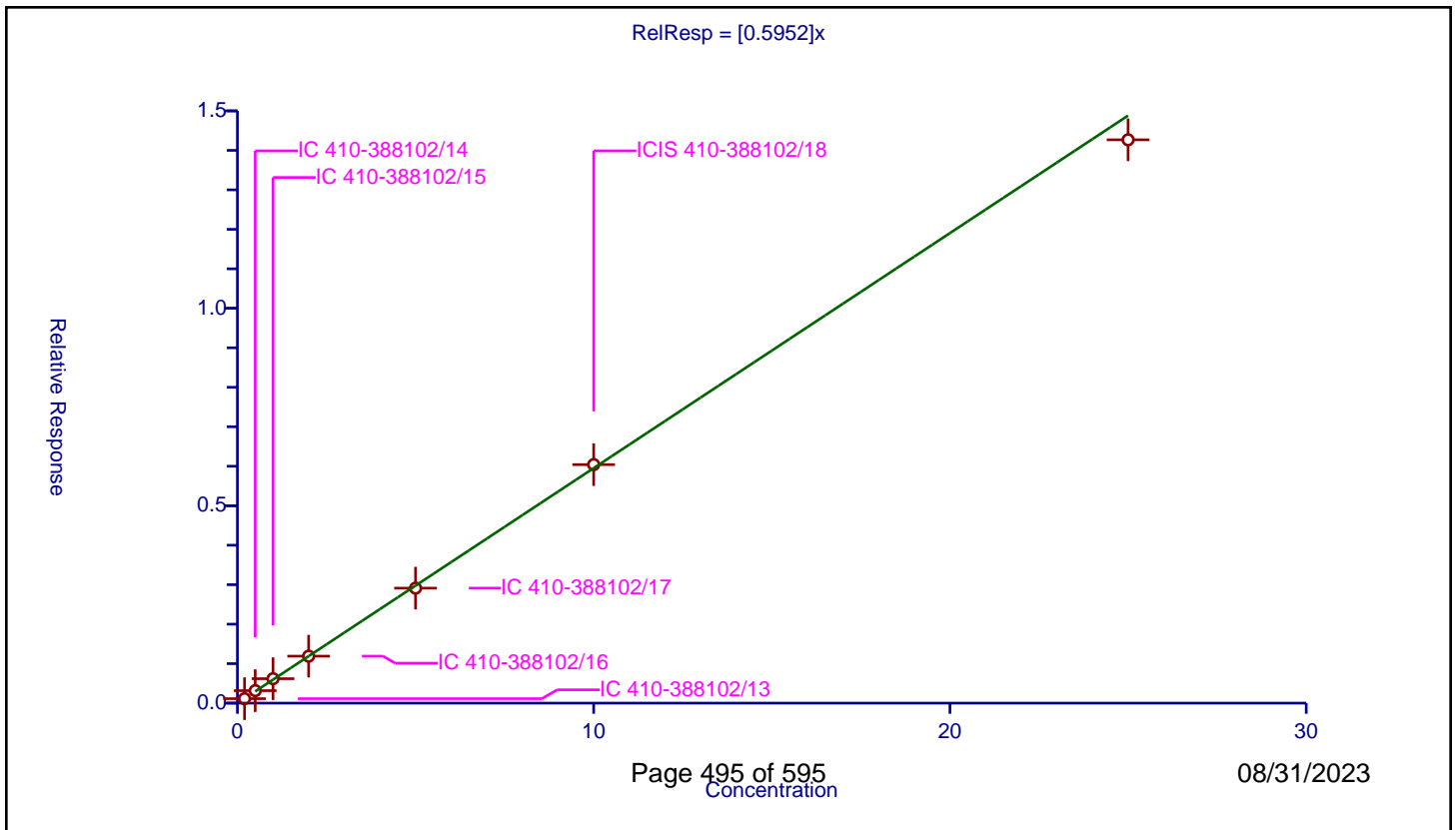
/ 1,1,2,2-Tetrachloroethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5952

Error Coefficients	
Standard Error:	589000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.112743	10.0	868350.0	0.563713	Y
2	IC 410-388102/14	0.5	0.316	10.0	834938.0	0.631999	Y
3	IC 410-388102/15	1.0	0.618728	10.0	851085.0	0.618728	Y
4	IC 410-388102/16	2.0	1.189803	10.0	870354.0	0.594902	Y
5	IC 410-388102/17	5.0	2.912329	10.0	910481.0	0.582466	Y
6	ICIS 410-388102/18	10.0	6.041052	10.0	884528.0	0.604105	Y
7	IC 410-388102/19	25.0	14.267582	10.0	917393.0	0.570703	Y



Calibration

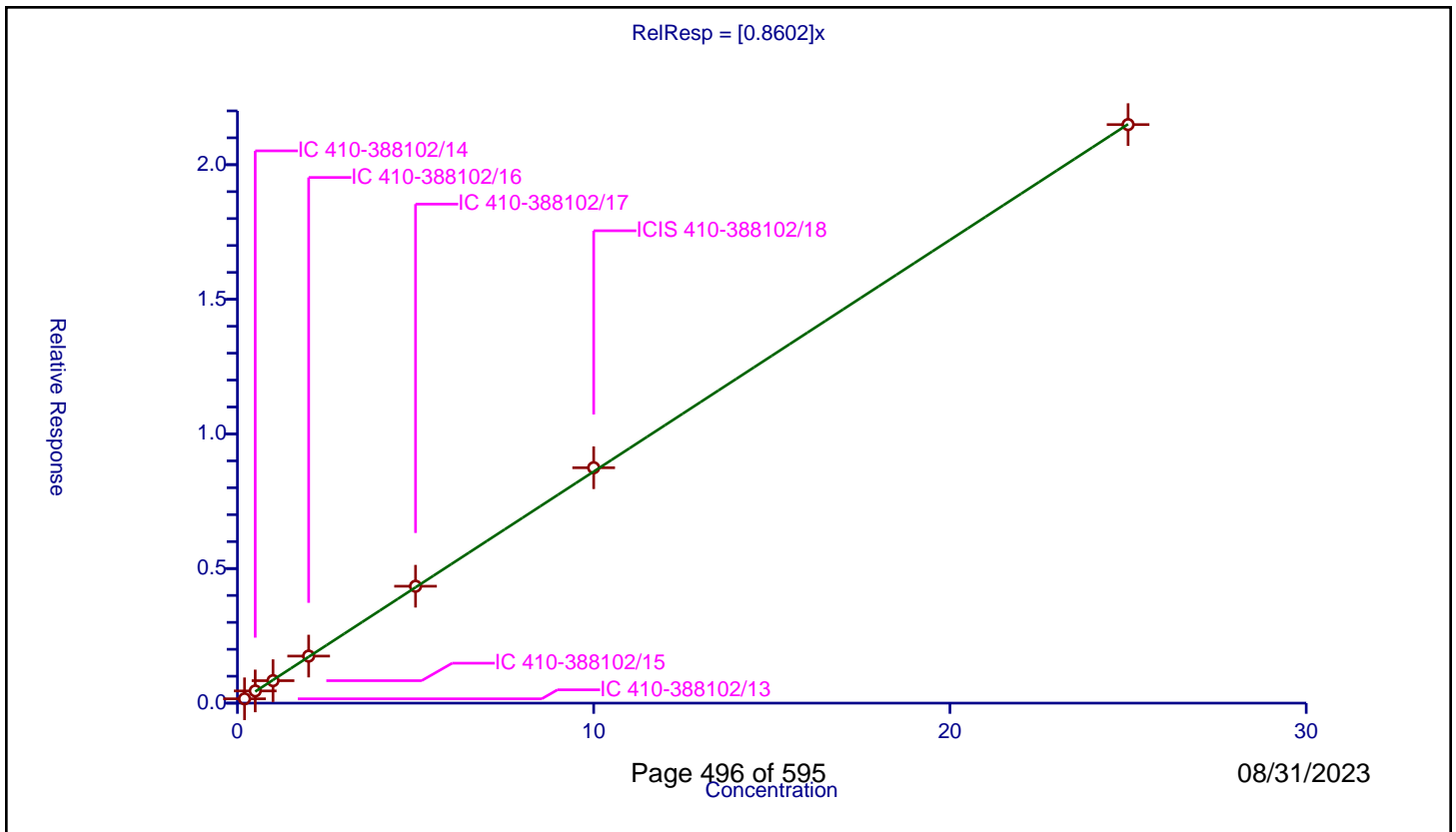
/ Bromobenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8602

Error Coefficients	
Standard Error:	882000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.16058	10.0	868350.0	0.802902	Y
2	IC 410-388102/14	0.5	0.453567	10.0	834938.0	0.907133	Y
3	IC 410-388102/15	1.0	0.834969	10.0	851085.0	0.834969	Y
4	IC 410-388102/16	2.0	1.748059	10.0	870354.0	0.874029	Y
5	IC 410-388102/17	5.0	4.343144	10.0	910481.0	0.868629	Y
6	ICIS 410-388102/18	10.0	8.744019	10.0	884528.0	0.874402	Y
7	IC 410-388102/19	25.0	21.490484	10.0	917393.0	0.859619	Y





Calibration

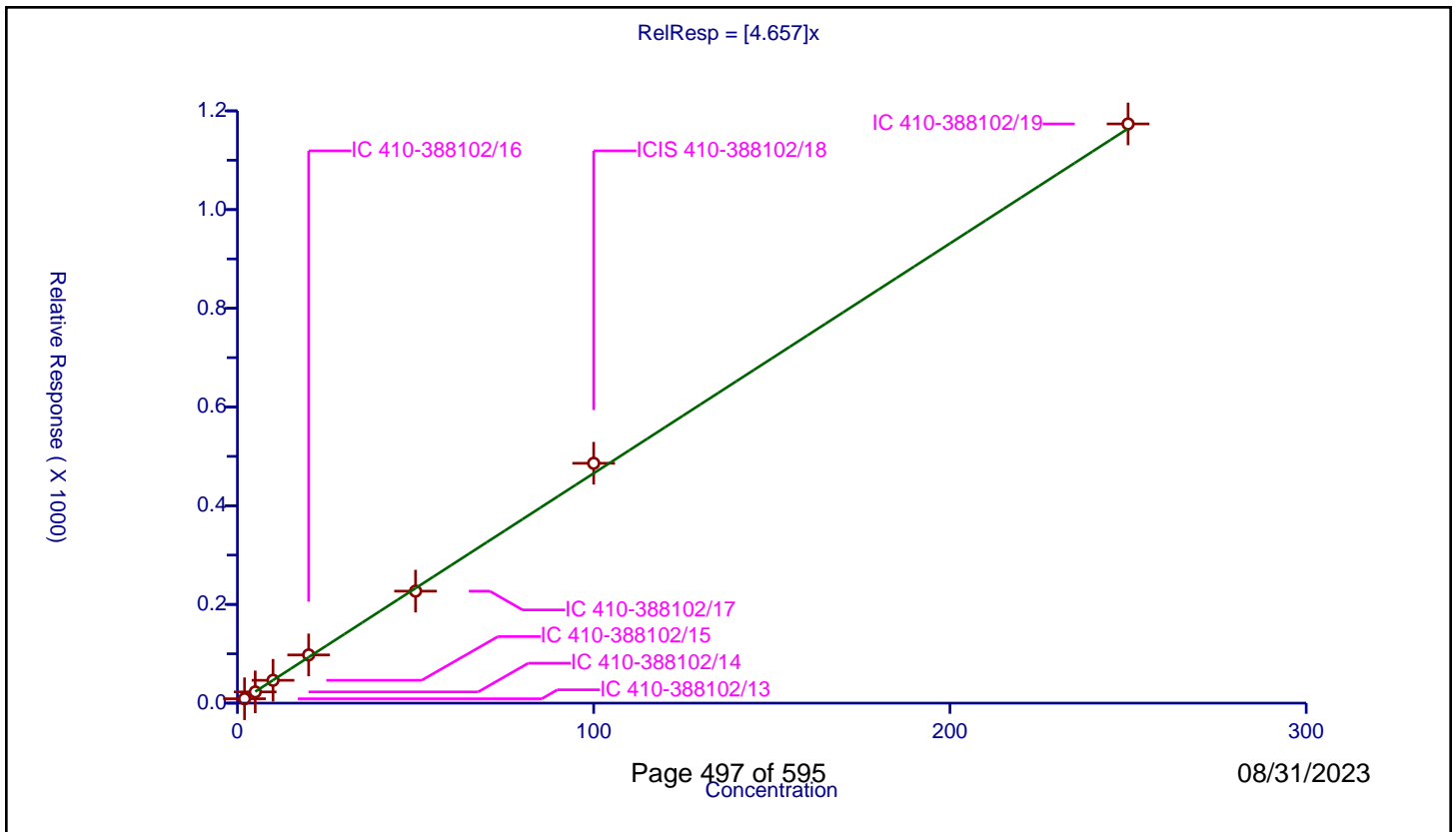
/ trans-1,4-Dichloro-2-butene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	4.657

Error Coefficients	
Standard Error:	1420000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	2.0	8.892698	50.0	116680.0	4.446349	Y
2	IC 410-388102/14	5.0	22.736748	50.0	132398.0	4.54735	Y
3	IC 410-388102/15	10.0	46.249111	50.0	133555.0	4.624911	Y
4	IC 410-388102/16	20.0	97.724859	50.0	127135.0	4.886243	Y
5	IC 410-388102/17	50.0	226.933437	50.0	139221.0	4.538669	Y
6	ICIS 410-388102/18	100.0	486.01147	50.0	130775.0	4.860115	Y
7	IC 410-388102/19	250.0	1173.559503	50.0	134884.0	4.694238	Y



Calibration

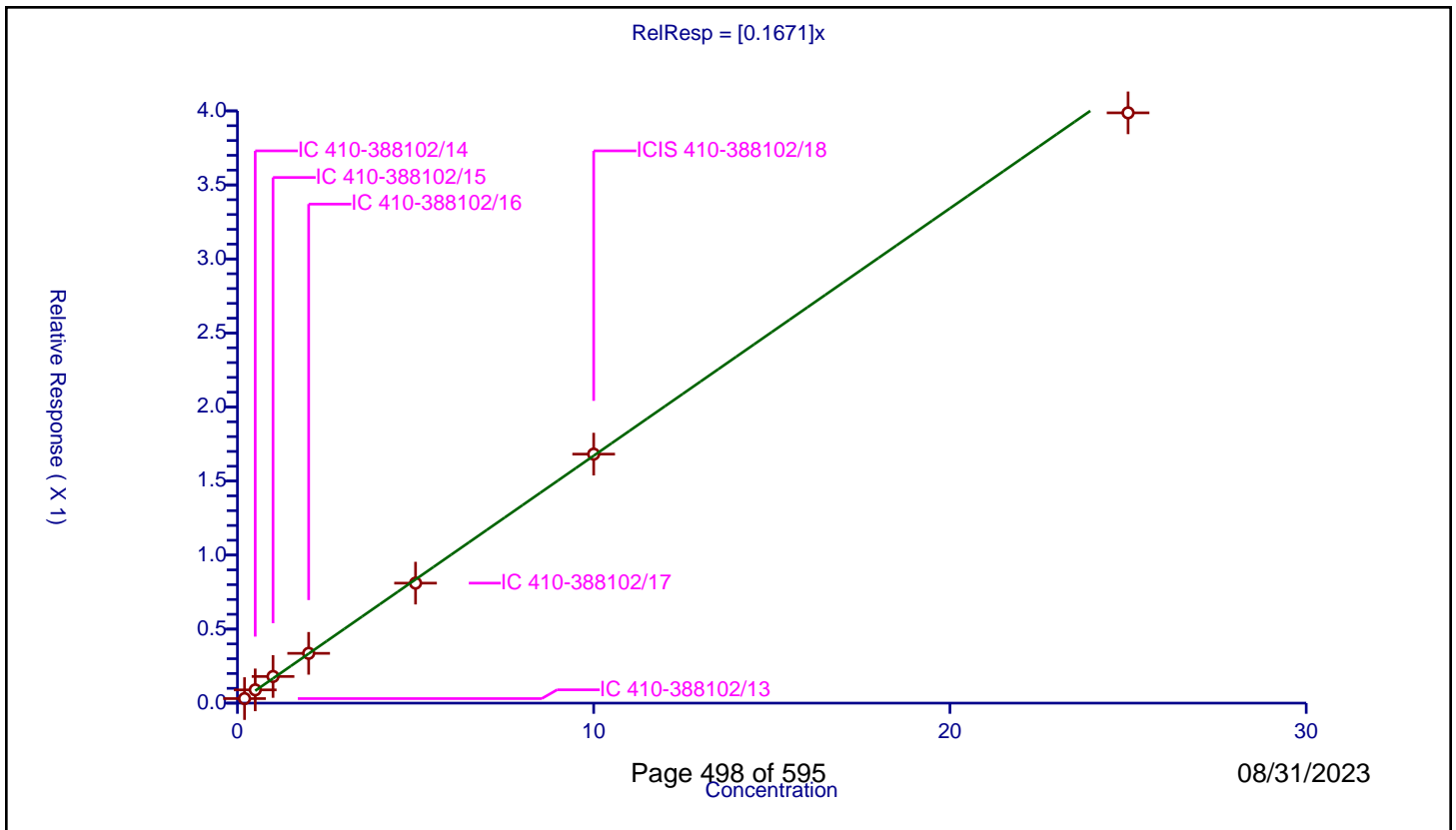
/ 1,2,3-Trichloropropane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.1671

Error Coefficients	
Standard Error:	165000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.030587	10.0	868350.0	0.152934	Y
2	IC 410-388102/14	0.5	0.089456	10.0	834938.0	0.178911	Y
3	IC 410-388102/15	1.0	0.179912	10.0	851085.0	0.179912	Y
4	IC 410-388102/16	2.0	0.336242	10.0	870354.0	0.168121	Y
5	IC 410-388102/17	5.0	0.810462	10.0	910481.0	0.162092	Y
6	ICIS 410-388102/18	10.0	1.681846	10.0	884528.0	0.168185	Y
7	IC 410-388102/19	25.0	3.986841	10.0	917393.0	0.159474	Y



Calibration

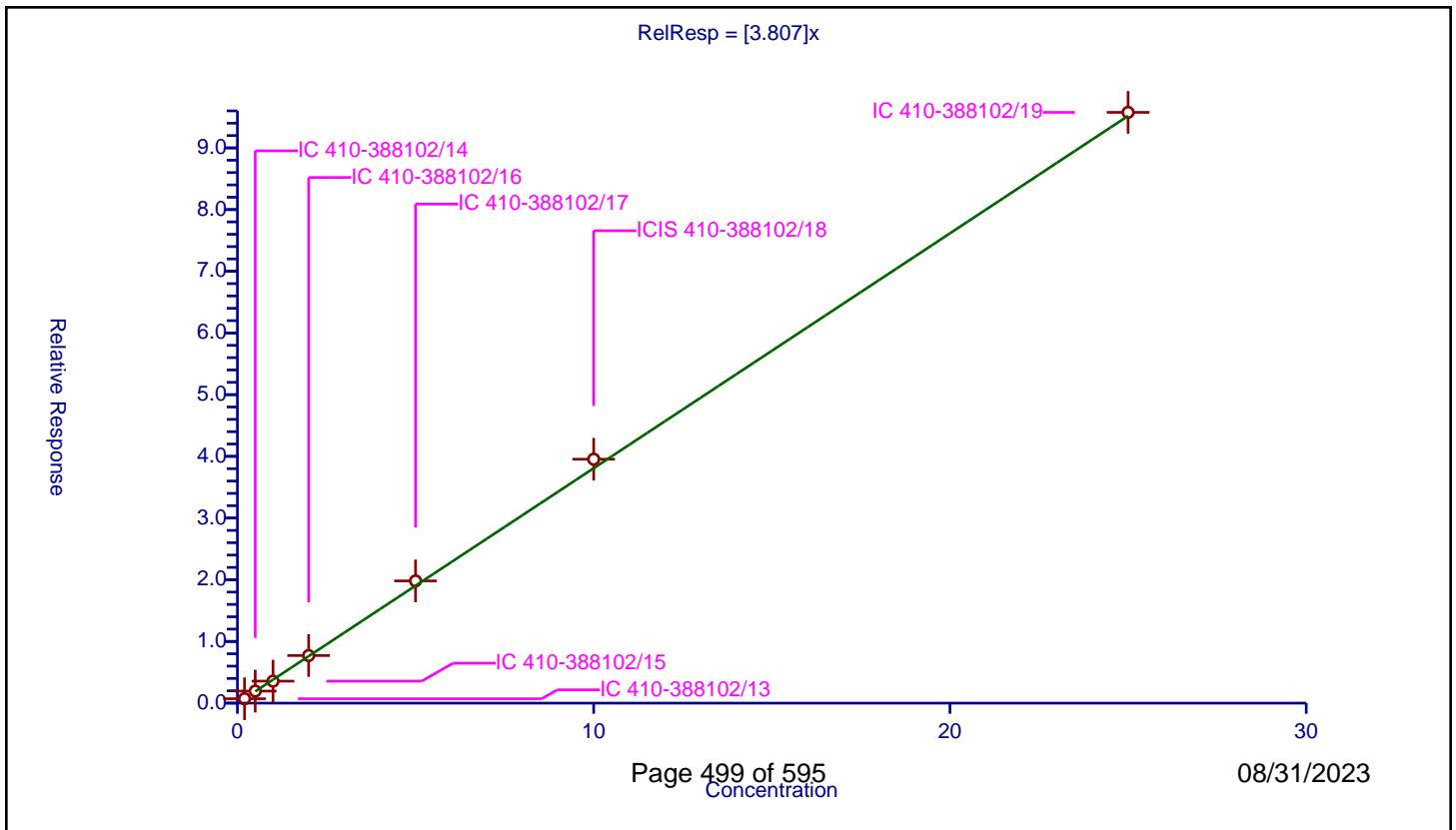
/ N-Propylbenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.807

Error Coefficients	
Standard Error:	3940000
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 410-388102/13	0.2	0.71523	10.0	868350.0	3.57615	Y
2	IC 410-388102/14	0.5	1.95466	10.0	834938.0	3.90932	Y
3	IC 410-388102/15	1.0	3.563122	10.0	851085.0	3.563122	Y
4	IC 410-388102/16	2.0	7.712885	10.0	870354.0	3.856442	Y
5	IC 410-388102/17	5.0	19.813209	10.0	910481.0	3.962642	Y
6	ICIS 410-388102/18	10.0	39.541179	10.0	884528.0	3.954118	Y
7	IC 410-388102/19	25.0	95.756355	10.0	917393.0	3.830254	Y



Calibration

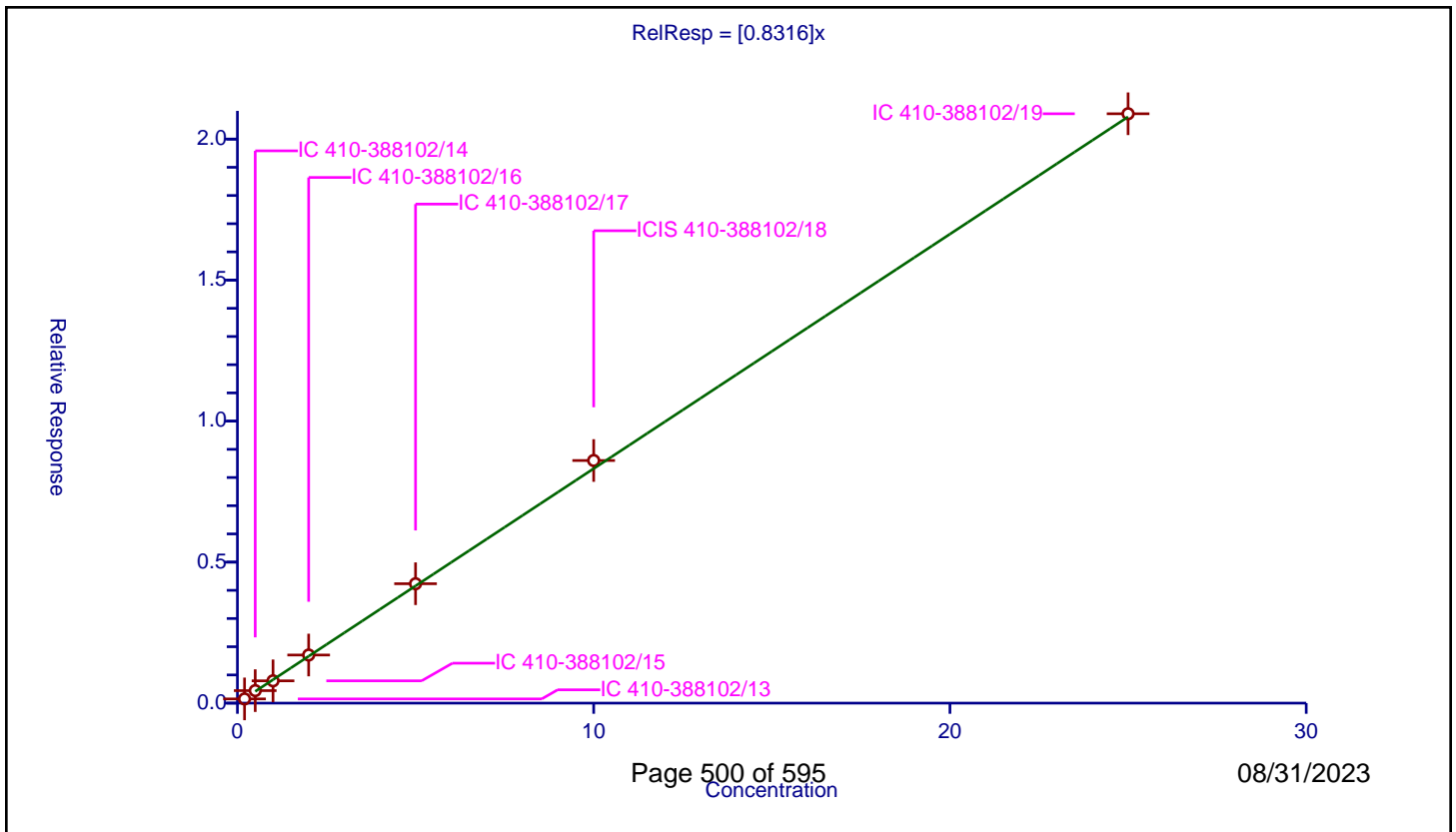
/ 2-Chlorotoluene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8316

Error Coefficients	
Standard Error:	859000
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 410-388102/13	0.2	0.149583	10.0	868350.0	0.747913	Y
2	IC 410-388102/14	0.5	0.442967	10.0	834938.0	0.885934	Y
3	IC 410-388102/15	1.0	0.791026	10.0	851085.0	0.791026	Y
4	IC 410-388102/16	2.0	1.706179	10.0	870354.0	0.85309	Y
5	IC 410-388102/17	5.0	4.233707	10.0	910481.0	0.846741	Y
6	ICIS 410-388102/18	10.0	8.603289	10.0	884528.0	0.860329	Y
7	IC 410-388102/19	25.0	20.898121	10.0	917393.0	0.835925	Y



Calibration

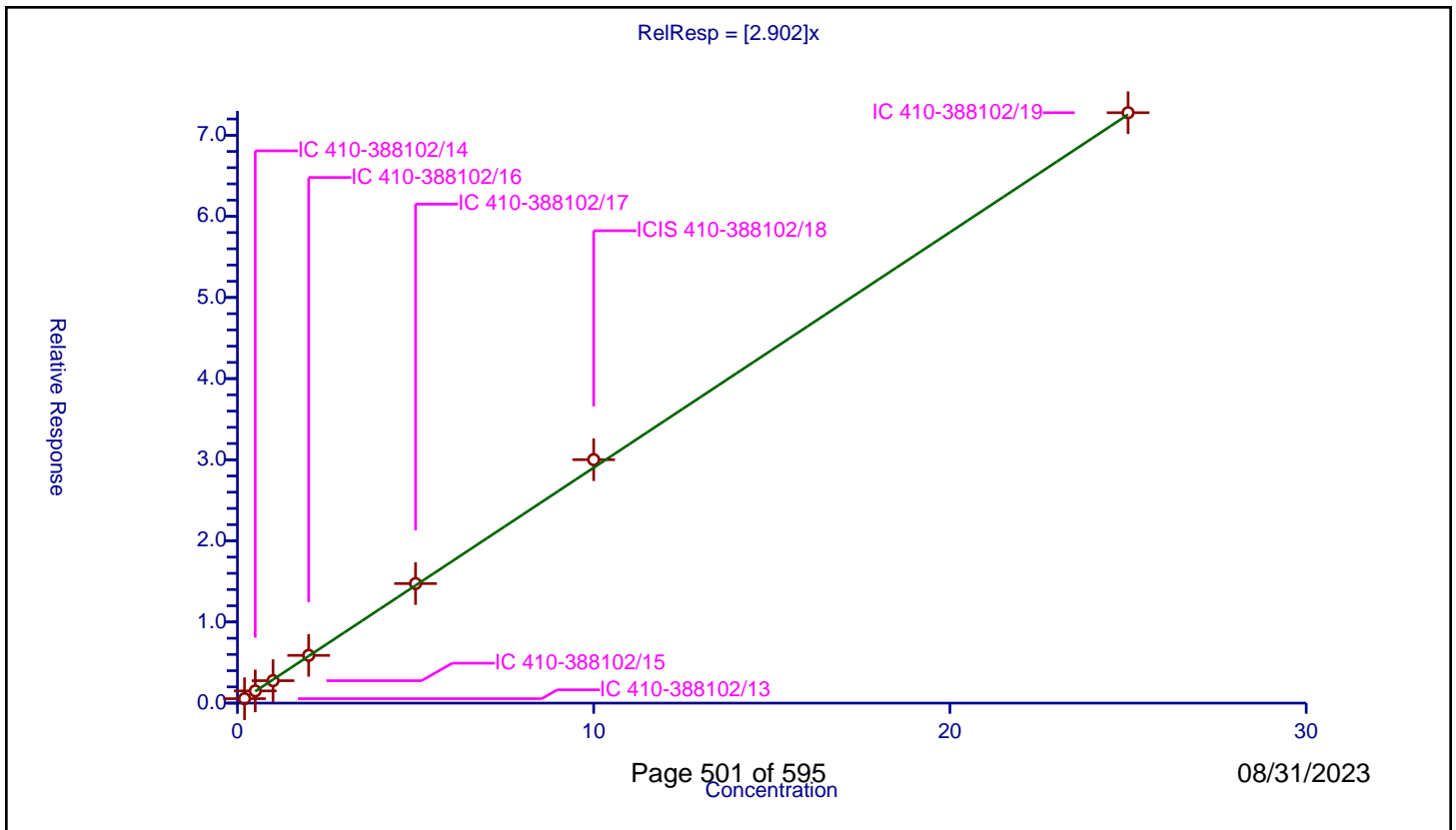
/ 1,3,5-Trimethylbenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.902

Error Coefficients	
Standard Error:	2990000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.547084	10.0	868350.0	2.735418	Y
2	IC 410-388102/14	0.5	1.504207	10.0	834938.0	3.008415	Y
3	IC 410-388102/15	1.0	2.766927	10.0	851085.0	2.766927	Y
4	IC 410-388102/16	2.0	5.88549	10.0	870354.0	2.942745	Y
5	IC 410-388102/17	5.0	14.739813	10.0	910481.0	2.947963	Y
6	ICIS 410-388102/18	10.0	30.00987	10.0	884528.0	3.000987	Y
7	IC 410-388102/19	25.0	72.778231	10.0	917393.0	2.911129	Y



Calibration

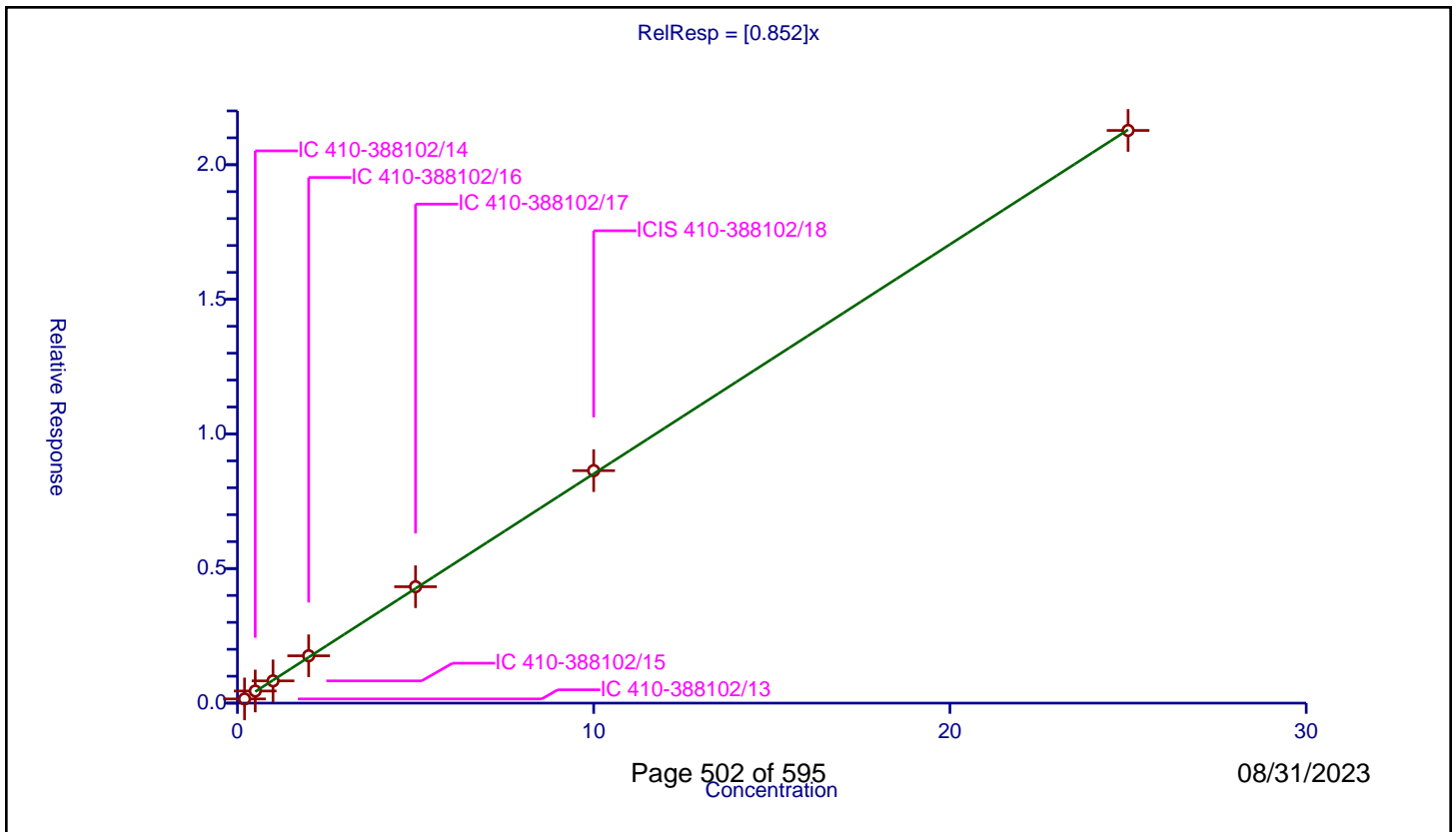
/ 4-Chlorotoluene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.852

Error Coefficients	
Standard Error:	873000
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 410-388102/13	0.2	0.155352	10.0	868350.0	0.776761	Y
2	IC 410-388102/14	0.5	0.451063	10.0	834938.0	0.902127	Y
3	IC 410-388102/15	1.0	0.826604	10.0	851085.0	0.826604	Y
4	IC 410-388102/16	2.0	1.758698	10.0	870354.0	0.879349	Y
5	IC 410-388102/17	5.0	4.323561	10.0	910481.0	0.864712	Y
6	ICIS 410-388102/18	10.0	8.63621	10.0	884528.0	0.863621	Y
7	IC 410-388102/19	25.0	21.273326	10.0	917393.0	0.850933	Y



Calibration

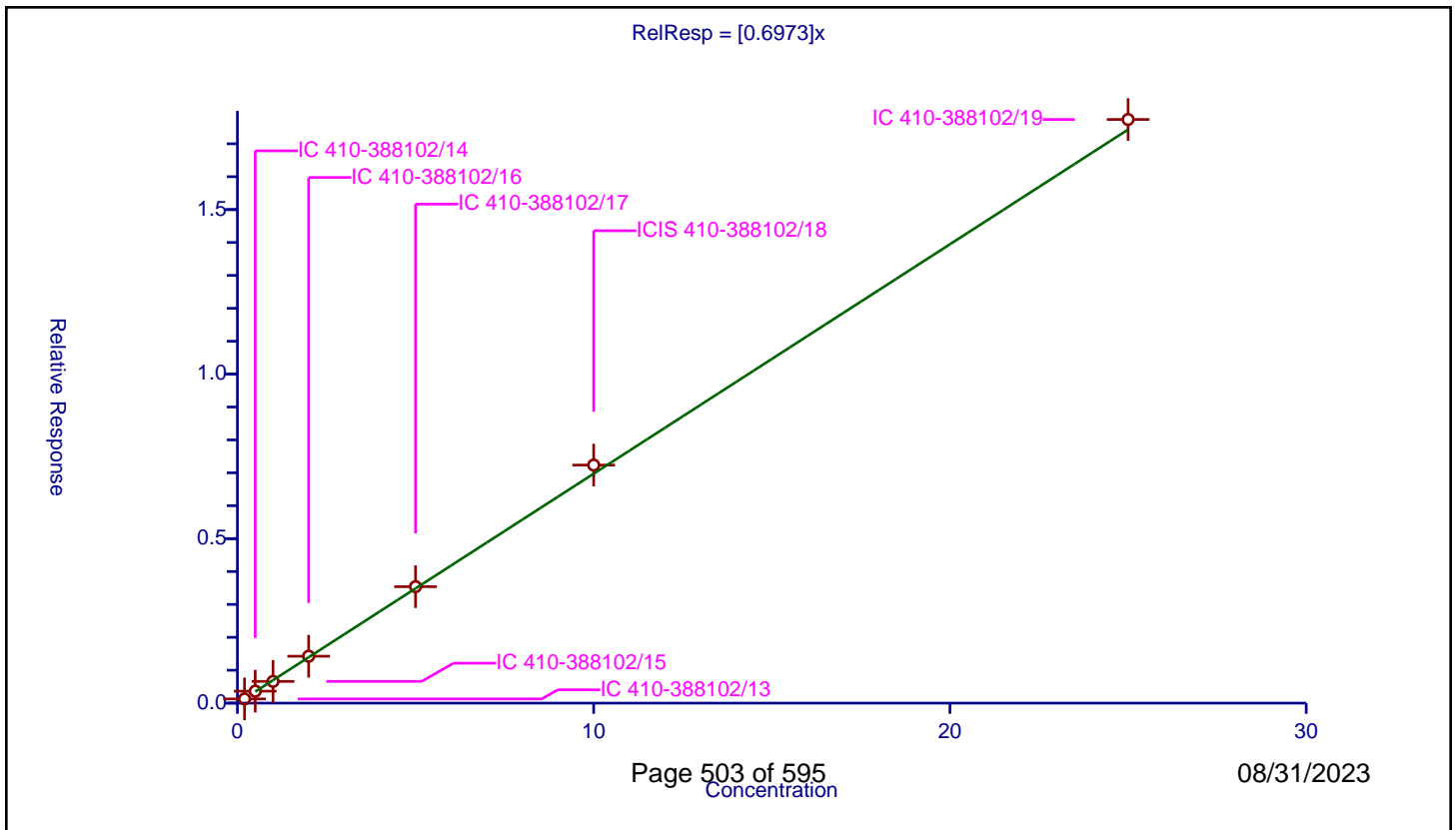
/ tert-Butylbenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.6973

Error Coefficients	
Standard Error:	728000
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 410-388102/13	0.2	0.127783	10.0	868350.0	0.638913	Y
2	IC 410-388102/14	0.5	0.363991	10.0	834938.0	0.727982	Y
3	IC 410-388102/15	1.0	0.660381	10.0	851085.0	0.660381	Y
4	IC 410-388102/16	2.0	1.42573	10.0	870354.0	0.712865	Y
5	IC 410-388102/17	5.0	3.539404	10.0	910481.0	0.707881	Y
6	ICIS 410-388102/18	10.0	7.235723	10.0	884528.0	0.723572	Y
7	IC 410-388102/19	25.0	17.73821	10.0	917393.0	0.709528	Y



Calibration

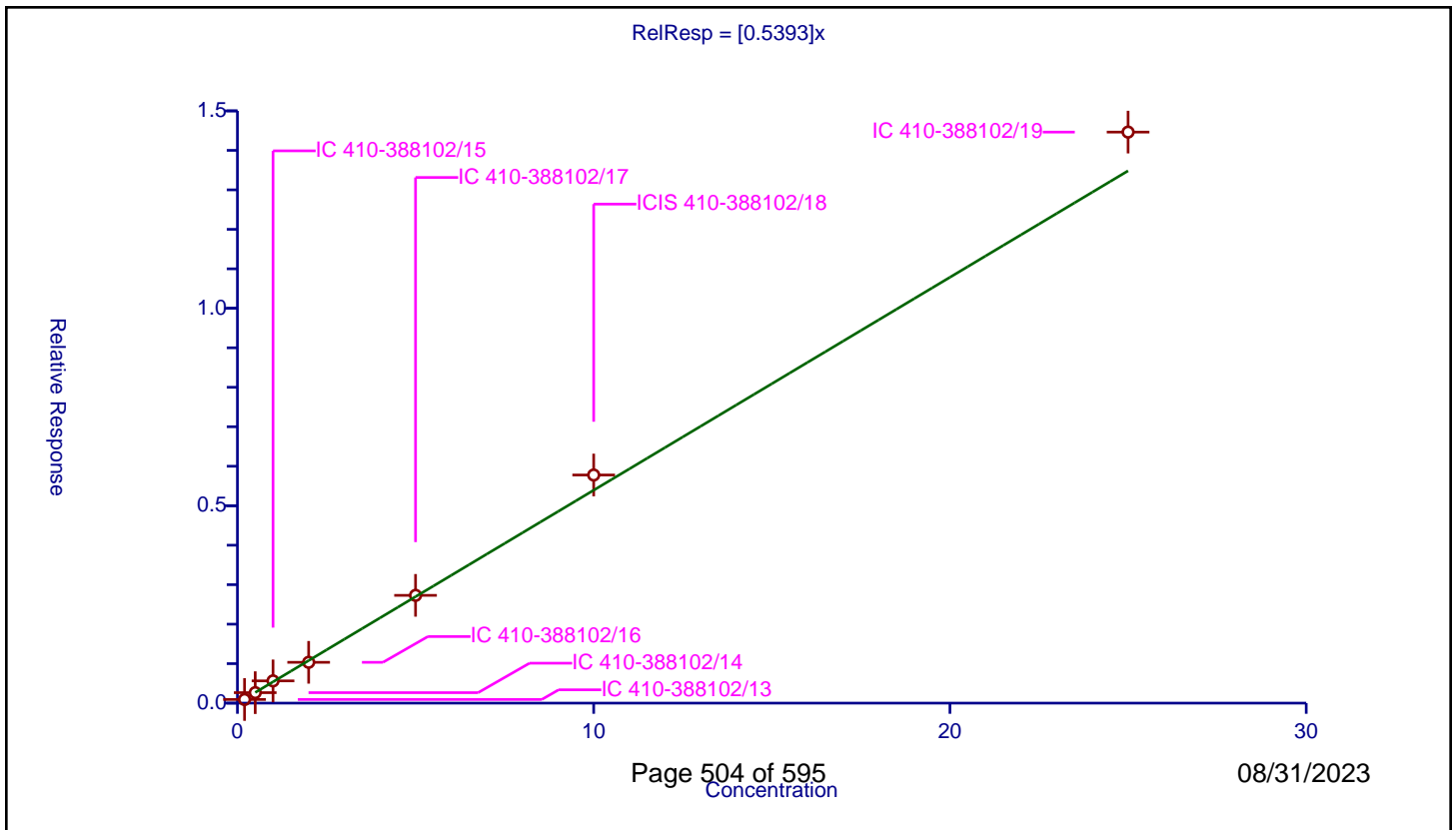
/ Pentachloroethane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5393

Error Coefficients	
Standard Error:	591000
Relative Standard Error:	7.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.092244	10.0	868350.0	0.46122	Y
2	IC 410-388102/14	0.5	0.265493	10.0	834938.0	0.530986	Y
3	IC 410-388102/15	1.0	0.563528	10.0	851085.0	0.563528	Y
4	IC 410-388102/16	2.0	1.034051	10.0	870354.0	0.517025	Y
5	IC 410-388102/17	5.0	2.729436	10.0	910481.0	0.545887	Y
6	ICIS 410-388102/18	10.0	5.777771	10.0	884528.0	0.577777	Y
7	IC 410-388102/19	25.0	14.463027	10.0	917393.0	0.578521	Y





Calibration

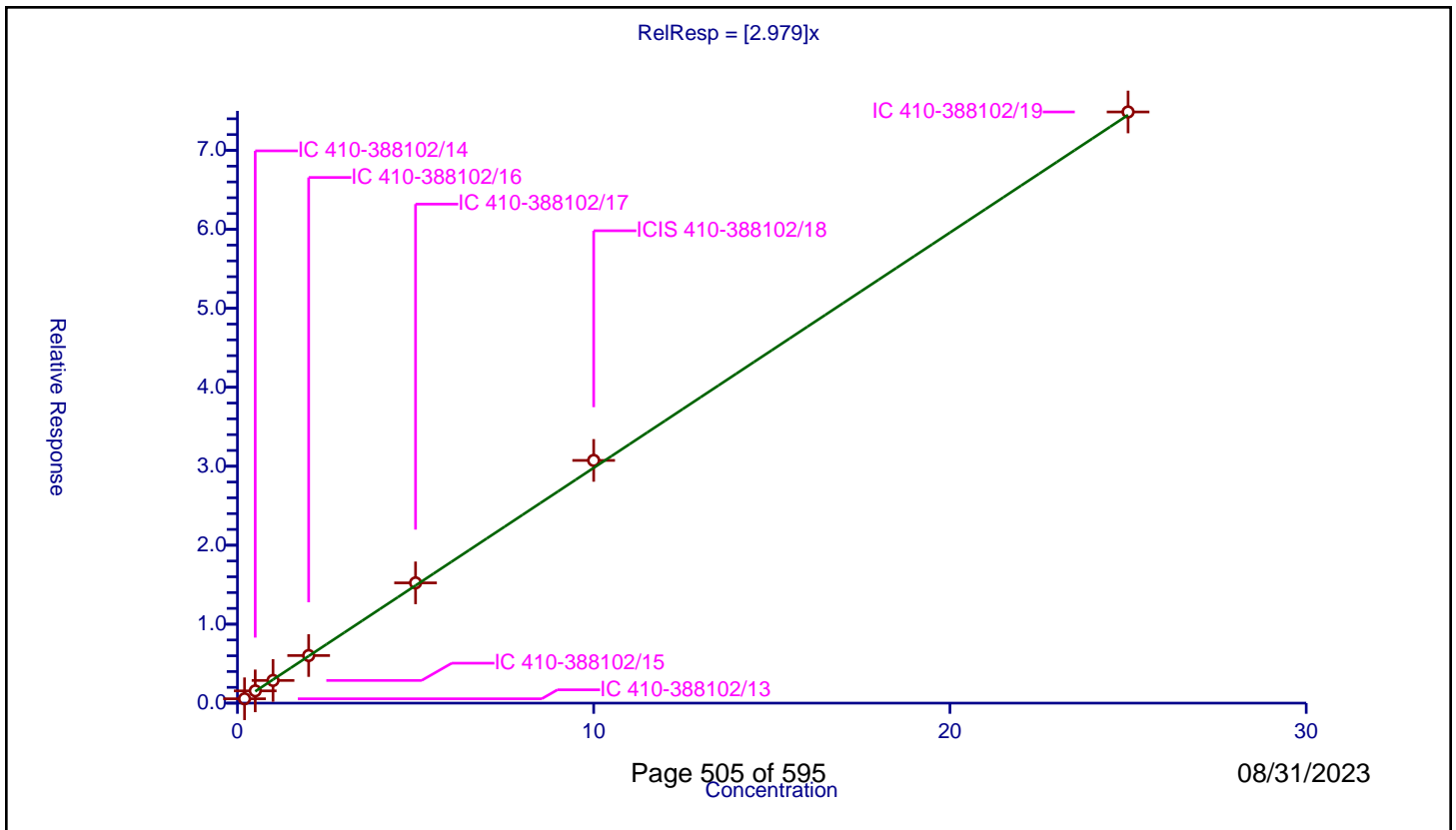
/ 1,2,4-Trimethylbenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.979

Error Coefficients	
Standard Error:	3080000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.549963	10.0	868350.0	2.749813	Y
2	IC 410-388102/14	0.5	1.552079	10.0	834938.0	3.104159	Y
3	IC 410-388102/15	1.0	2.873262	10.0	851085.0	2.873262	Y
4	IC 410-388102/16	2.0	6.02687	10.0	870354.0	3.013435	Y
5	IC 410-388102/17	5.0	15.23017	10.0	910481.0	3.046034	Y
6	ICIS 410-388102/18	10.0	30.737806	10.0	884528.0	3.073781	Y
7	IC 410-388102/19	25.0	74.866682	10.0	917393.0	2.994667	Y



**Calibration**

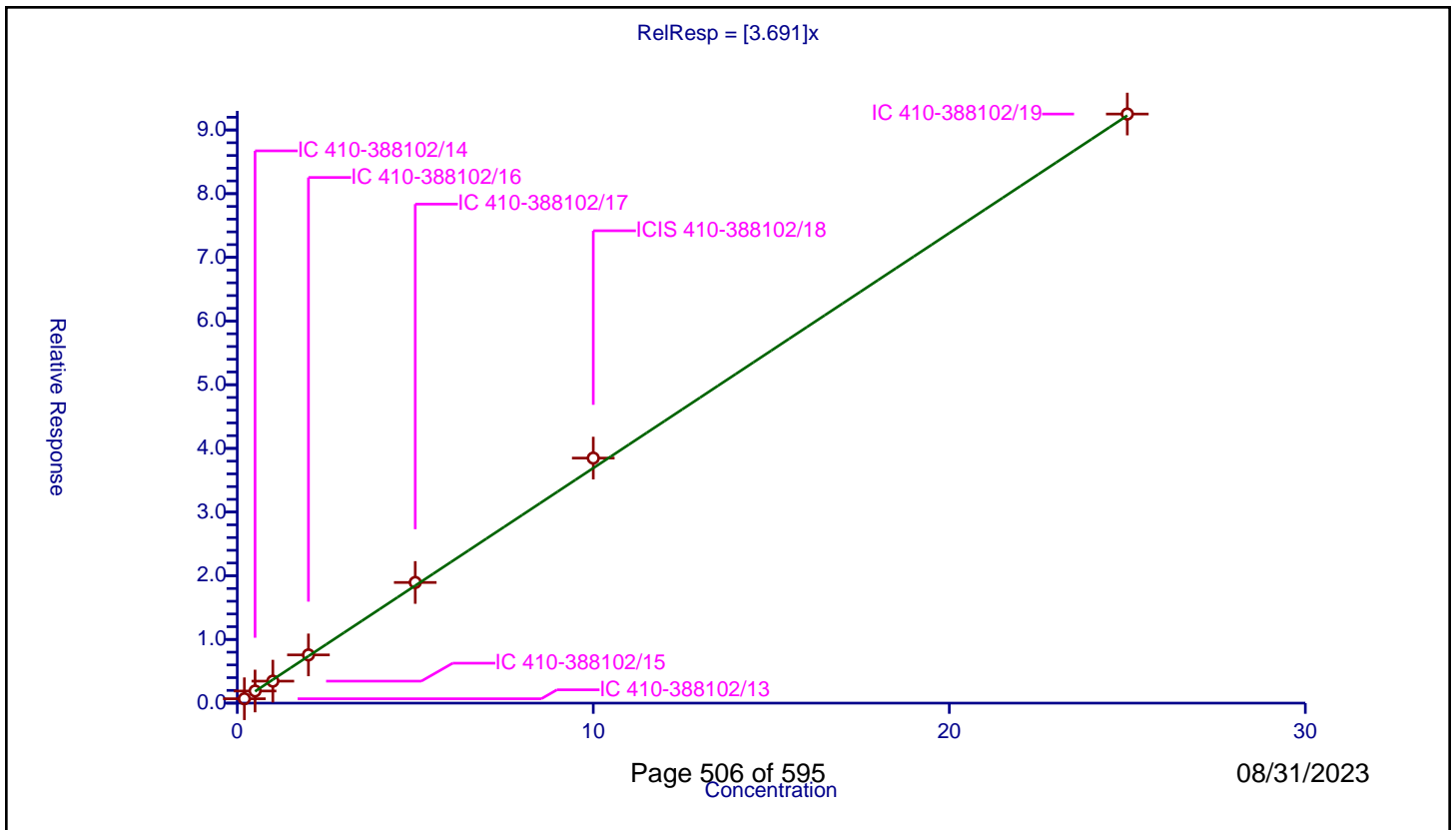
/ sec-Butylbenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.691

Error Coefficients	
Standard Error:	3810000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.689883	10.0	868350.0	3.449416	Y
2	IC 410-388102/14	0.5	1.905016	10.0	834938.0	3.810031	Y
3	IC 410-388102/15	1.0	3.451206	10.0	851085.0	3.451206	Y
4	IC 410-388102/16	2.0	7.573137	10.0	870354.0	3.786568	Y
5	IC 410-388102/17	5.0	18.947798	10.0	910481.0	3.78956	Y
6	ICIS 410-388102/18	10.0	38.478284	10.0	884528.0	3.847828	Y
7	IC 410-388102/19	25.0	92.507693	10.0	917393.0	3.700308	Y



Calibration

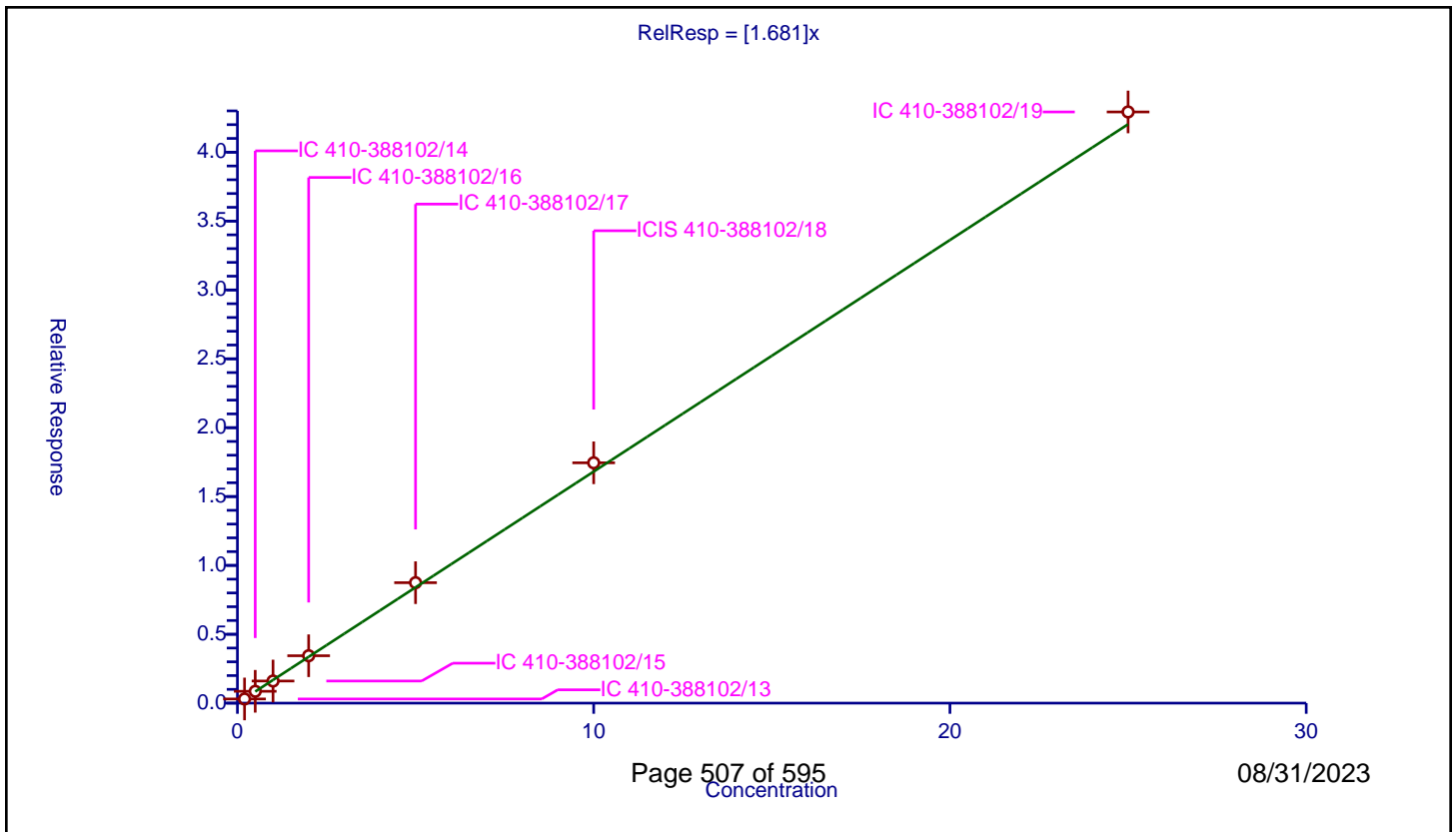
/ 1,3-Dichlorobenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.681

Error Coefficients	
Standard Error:	1760000
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 410-388102/13	0.2	0.30239	10.0	868350.0	1.511948	Y
2	IC 410-388102/14	0.5	0.859621	10.0	834938.0	1.719241	Y
3	IC 410-388102/15	1.0	1.605551	10.0	851085.0	1.605551	Y
4	IC 410-388102/16	2.0	3.441048	10.0	870354.0	1.720524	Y
5	IC 410-388102/17	5.0	8.744576	10.0	910481.0	1.748915	Y
6	ICIS 410-388102/18	10.0	17.448492	10.0	884528.0	1.744849	Y
7	IC 410-388102/19	25.0	42.922957	10.0	917393.0	1.716918	Y



Calibration

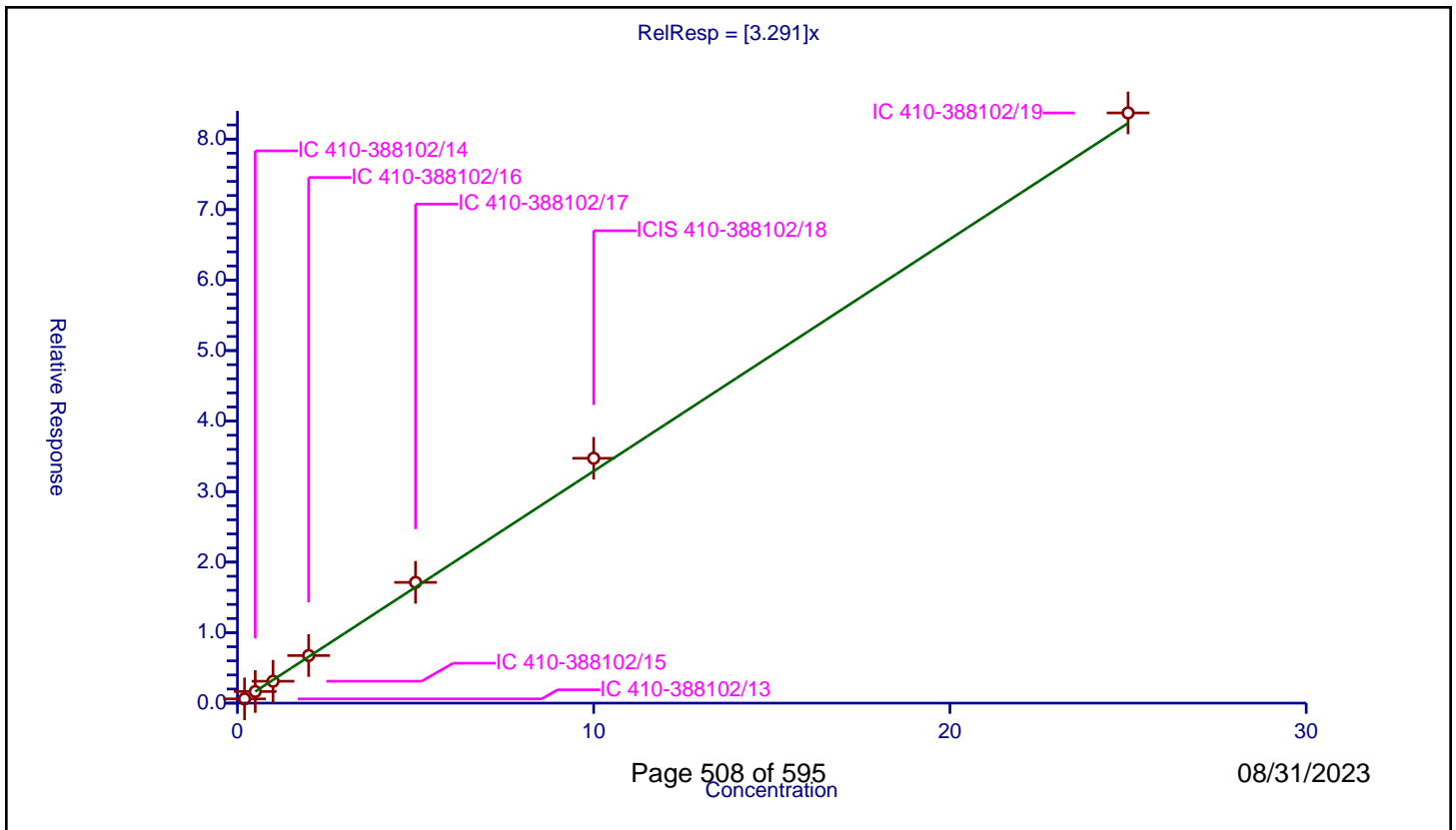
/ 4-Isopropyltoluene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.291

Error Coefficients	
Standard Error:	3450000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.601555	10.0	868350.0	3.007773	Y
2	IC 410-388102/14	0.5	1.648769	10.0	834938.0	3.297538	Y
3	IC 410-388102/15	1.0	3.107539	10.0	851085.0	3.107539	Y
4	IC 410-388102/16	2.0	6.750047	10.0	870354.0	3.375023	Y
5	IC 410-388102/17	5.0	17.124026	10.0	910481.0	3.424805	Y
6	ICIS 410-388102/18	10.0	34.728737	10.0	884528.0	3.472874	Y
7	IC 410-388102/19	25.0	83.708476	10.0	917393.0	3.348339	Y



Calibration

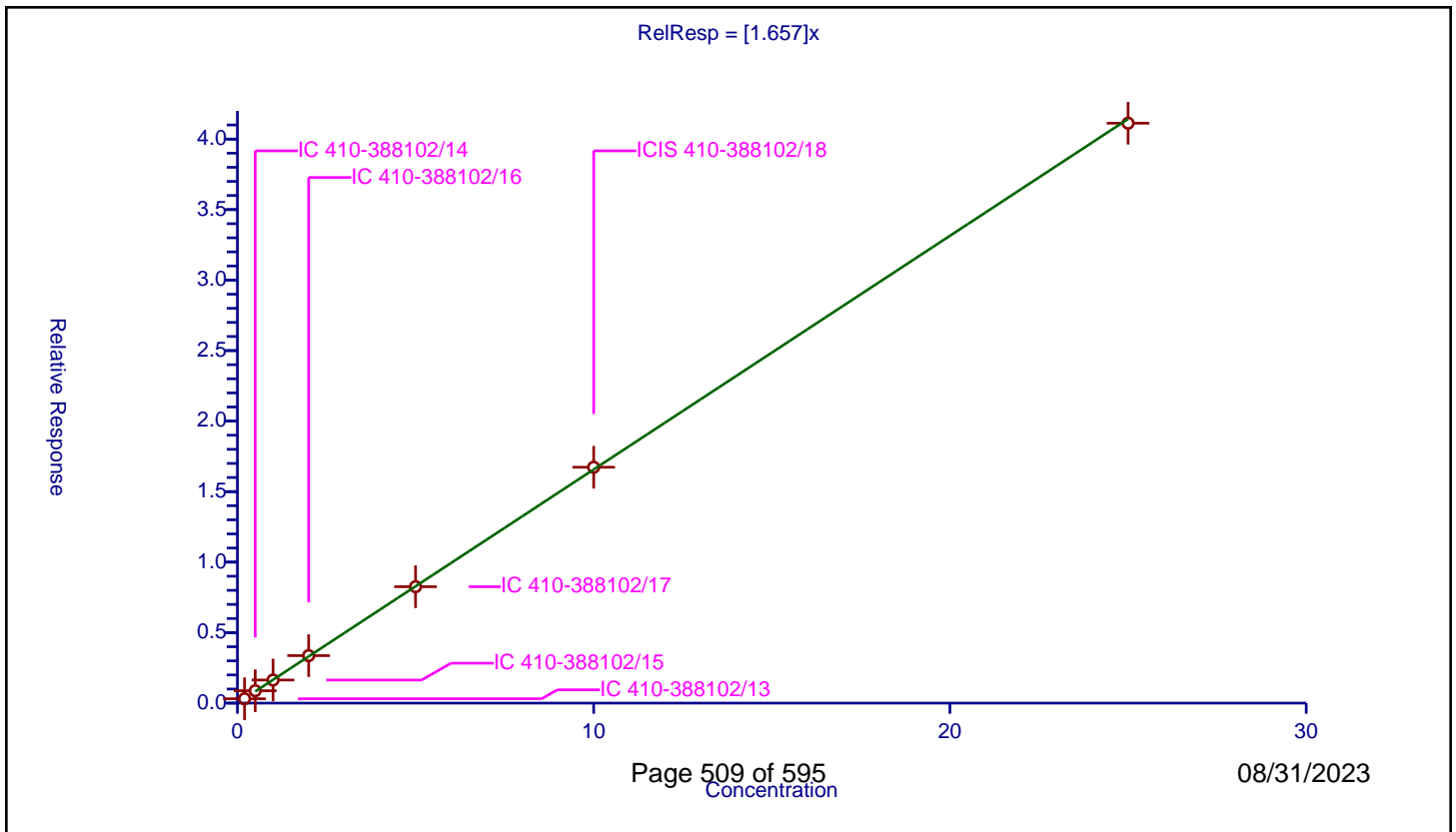
/ 1,4-Dichlorobenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.657

Error Coefficients	
Standard Error:	1690000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.310151	10.0	868350.0	1.550757	Y
2	IC 410-388102/14	0.5	0.87858	10.0	834938.0	1.75716	Y
3	IC 410-388102/15	1.0	1.63825	10.0	851085.0	1.63825	Y
4	IC 410-388102/16	2.0	3.368491	10.0	870354.0	1.684246	Y
5	IC 410-388102/17	5.0	8.257108	10.0	910481.0	1.651422	Y
6	ICIS 410-388102/18	10.0	16.727667	10.0	884528.0	1.672767	Y
7	IC 410-388102/19	25.0	41.126442	10.0	917393.0	1.645058	Y



Calibration

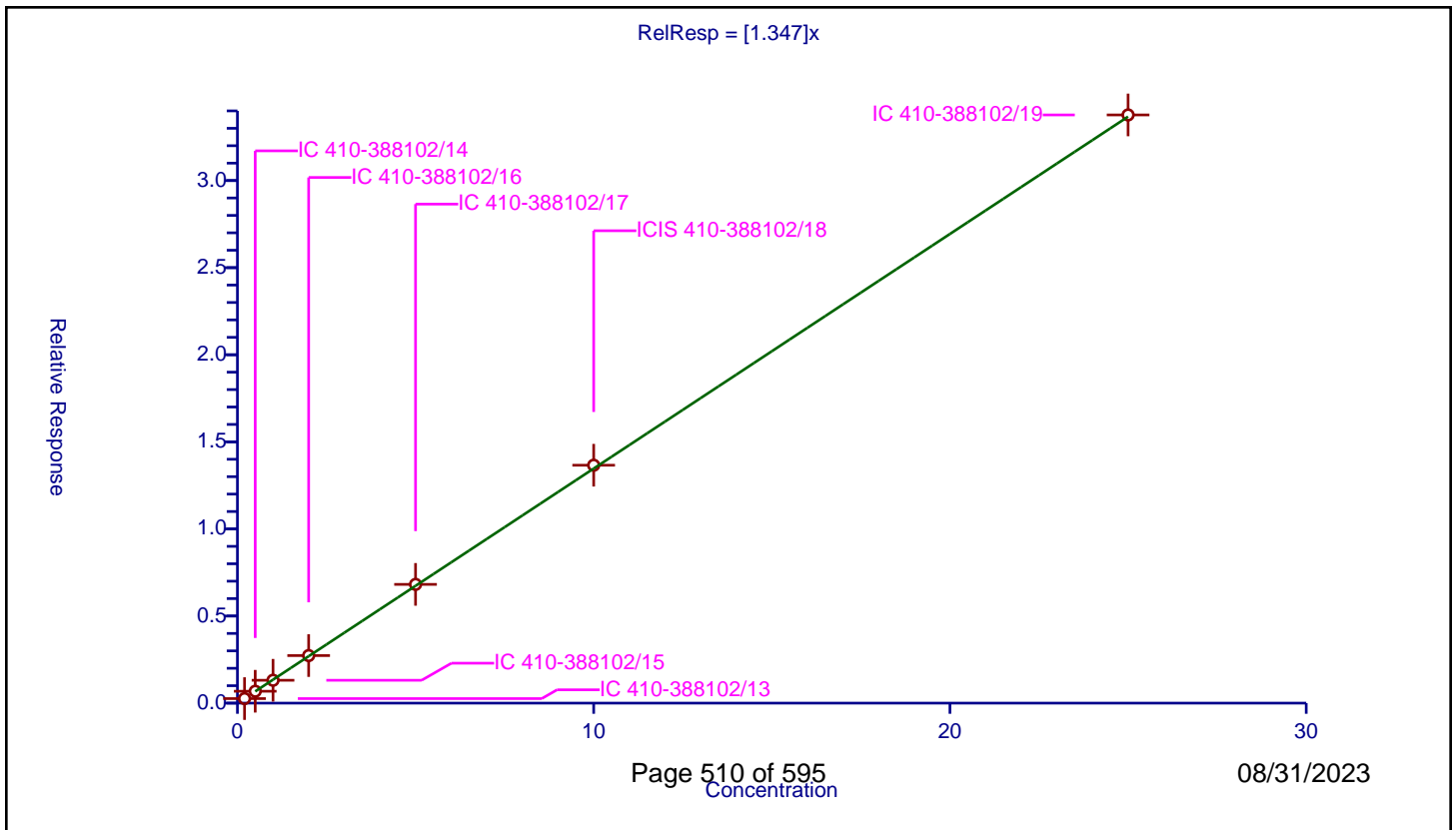
/ 1,2,3-Trimethylbenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.347

Error Coefficients	
Standard Error:	1390000
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.261231	10.0	868350.0	1.306155	Y
2	IC 410-388102/14	0.5	0.682075	10.0	834938.0	1.364149	Y
3	IC 410-388102/15	1.0	1.31229	10.0	851085.0	1.31229	Y
4	IC 410-388102/16	2.0	2.729326	10.0	870354.0	1.364663	Y
5	IC 410-388102/17	5.0	6.816957	10.0	910481.0	1.363391	Y
6	ICIS 410-388102/18	10.0	13.657453	10.0	884528.0	1.365745	Y
7	IC 410-388102/19	25.0	33.768232	10.0	917393.0	1.350729	Y



**Calibration**

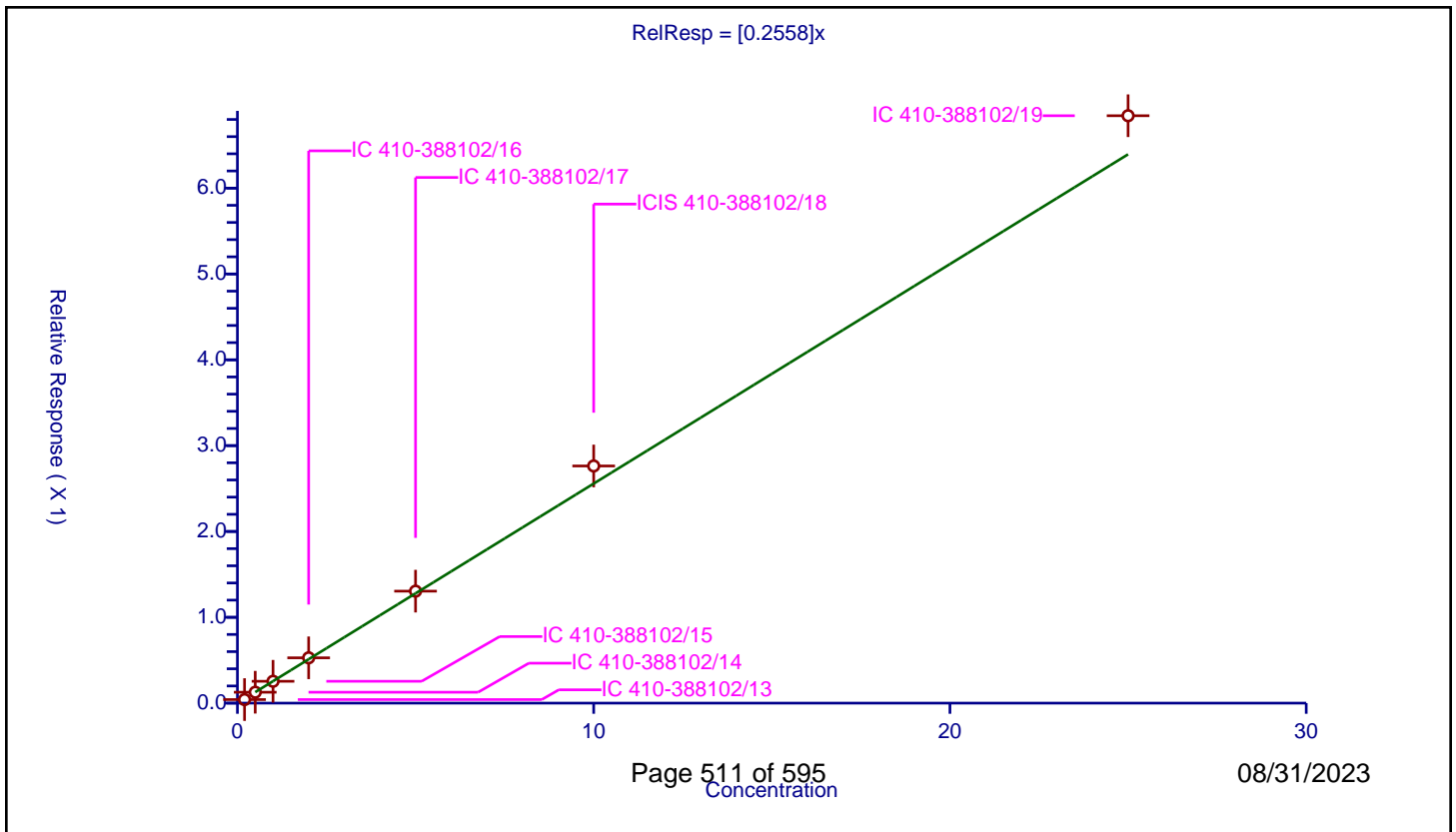
/ Benzyl chloride

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2558

Error Coefficients	
Standard Error:	280000
Relative Standard Error:	9.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.041343	10.0	868350.0	0.206714	Y
2	IC 410-388102/14	0.5	0.127039	10.0	834938.0	0.254079	Y
3	IC 410-388102/15	1.0	0.254522	10.0	851085.0	0.254522	Y
4	IC 410-388102/16	2.0	0.527935	10.0	870354.0	0.263967	Y
5	IC 410-388102/17	5.0	1.30464	10.0	910481.0	0.260928	Y
6	ICIS 410-388102/18	10.0	2.763169	10.0	884528.0	0.276317	Y
7	IC 410-388102/19	25.0	6.843621	10.0	917393.0	0.273745	Y



**Calibration**

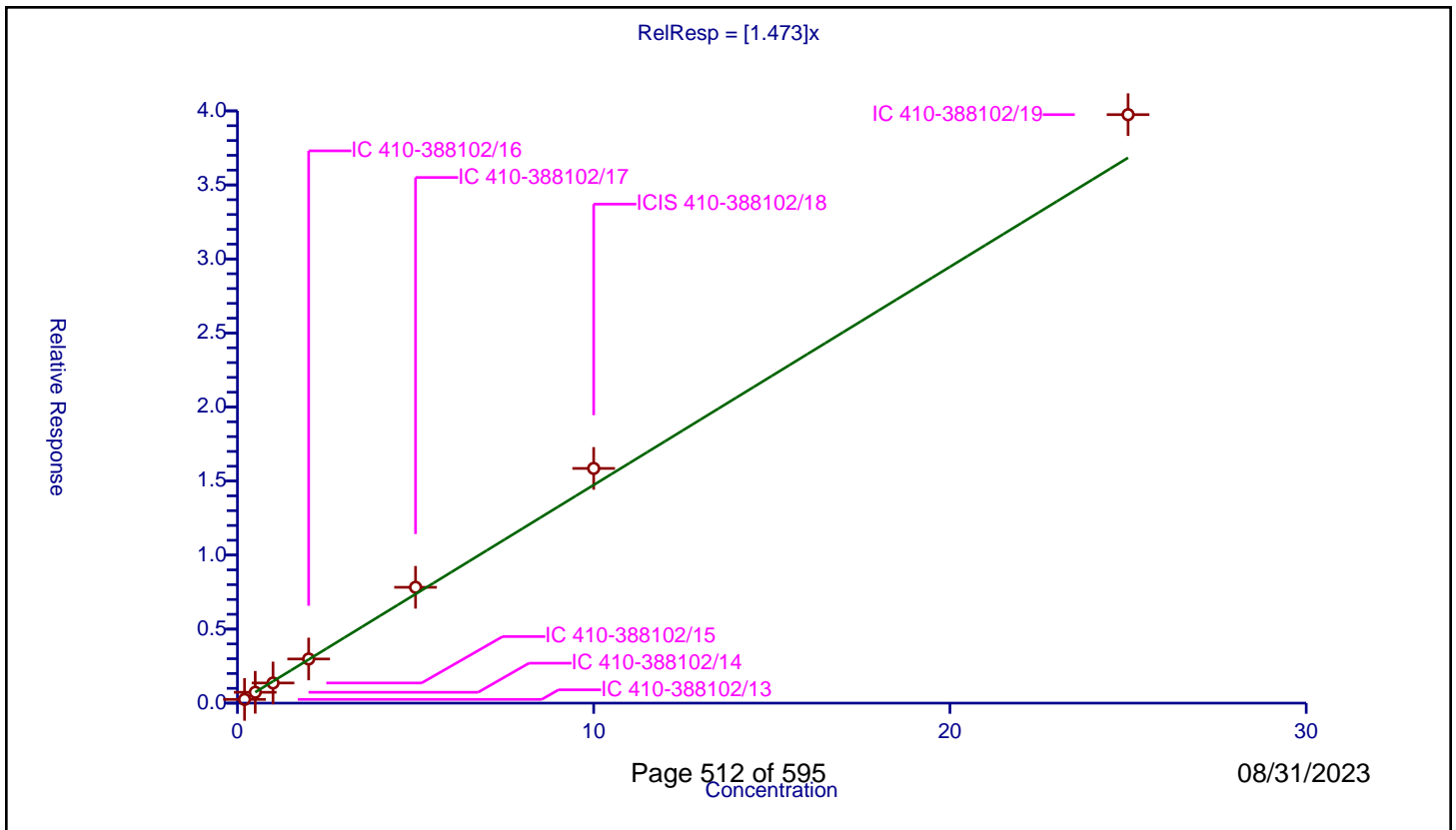
**/ n-Butylbenzene**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.473

Error Coefficients	
Standard Error:	1630000
Relative Standard Error:	8.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.251488	10.0	868350.0	1.257442	Y
2	IC 410-388102/14	0.5	0.732653	10.0	834938.0	1.465306	Y
3	IC 410-388102/15	1.0	1.360816	10.0	851085.0	1.360816	Y
4	IC 410-388102/16	2.0	2.980879	10.0	870354.0	1.49044	Y
5	IC 410-388102/17	5.0	7.823282	10.0	910481.0	1.564656	Y
6	ICIS 410-388102/18	10.0	15.852624	10.0	884528.0	1.585262	Y
7	IC 410-388102/19	25.0	39.746968	10.0	917393.0	1.589879	Y





Calibration

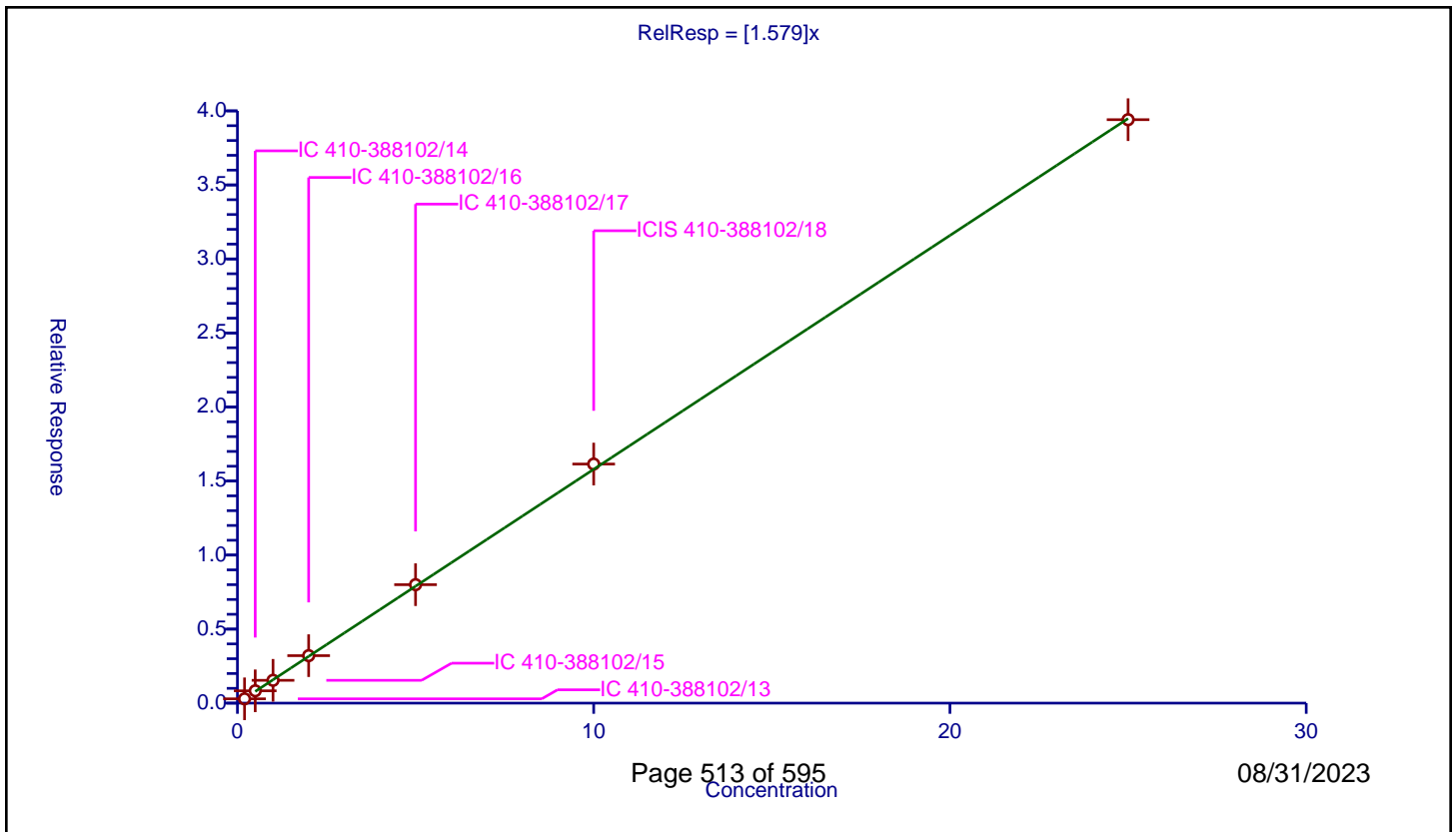
/ 1,2-Dichlorobenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.579

Error Coefficients	
Standard Error:	1620000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.291138	10.0	868350.0	1.455692	Y
2	IC 410-388102/14	0.5	0.83278	10.0	834938.0	1.665561	Y
3	IC 410-388102/15	1.0	1.539905	10.0	851085.0	1.539905	Y
4	IC 410-388102/16	2.0	3.206684	10.0	870354.0	1.603342	Y
5	IC 410-388102/17	5.0	8.00076	10.0	910481.0	1.600152	Y
6	ICIS 410-388102/18	10.0	16.147301	10.0	884528.0	1.61473	Y
7	IC 410-388102/19	25.0	39.407135	10.0	917393.0	1.576285	Y



**Calibration**

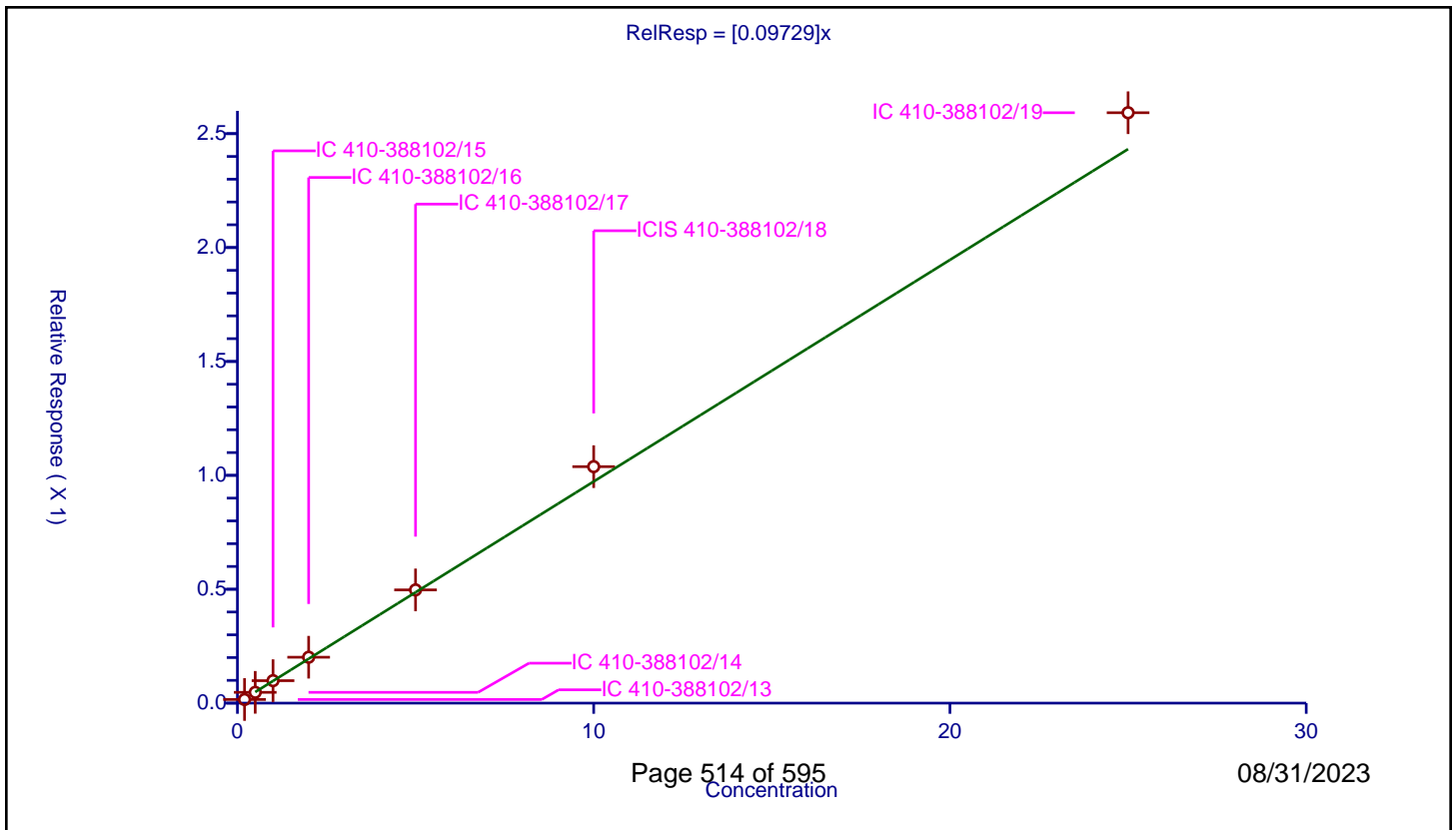
/ 1,2-Dibromo-3-Chloropropane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.09729

Error Coefficients	
Standard Error:	106000
Relative Standard Error:	8.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.015984	10.0	868350.0	0.079922	Y
2	IC 410-388102/14	0.5	0.047429	10.0	834938.0	0.094857	Y
3	IC 410-388102/15	1.0	0.09858	10.0	851085.0	0.09858	Y
4	IC 410-388102/16	2.0	0.201493	10.0	870354.0	0.100746	Y
5	IC 410-388102/17	5.0	0.497133	10.0	910481.0	0.099427	Y
6	ICIS 410-388102/18	10.0	1.03817	10.0	884528.0	0.103817	Y
7	IC 410-388102/19	25.0	2.591943	10.0	917393.0	0.103678	Y



Calibration

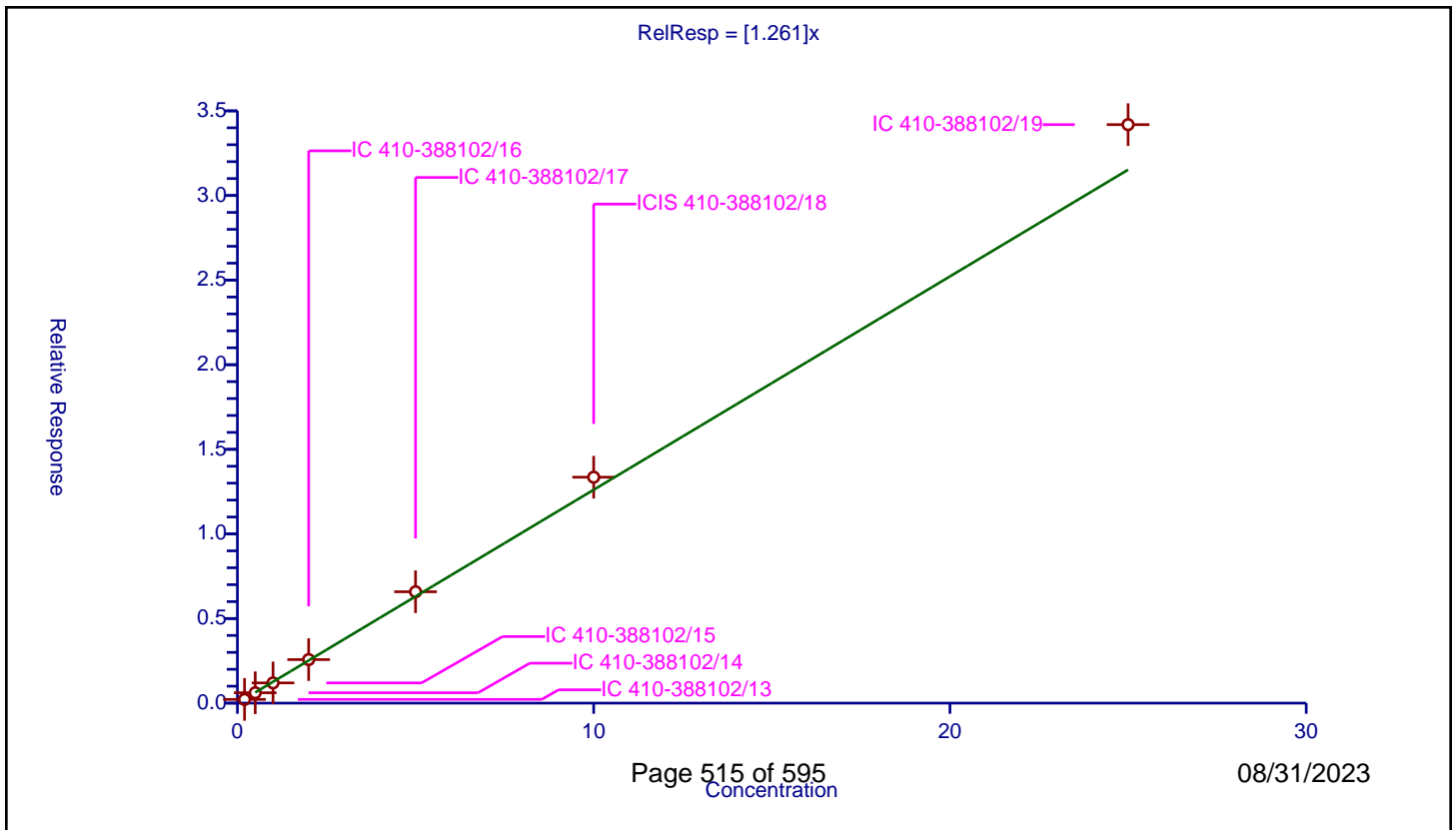
/ 1,3,5-Trichlorobenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.261

Error Coefficients	
Standard Error:	1390000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.220222	10.0	868350.0	1.101111	Y
2	IC 410-388102/14	0.5	0.612297	10.0	834938.0	1.224594	Y
3	IC 410-388102/15	1.0	1.194793	10.0	851085.0	1.194793	Y
4	IC 410-388102/16	2.0	2.573332	10.0	870354.0	1.286666	Y
5	IC 410-388102/17	5.0	6.580961	10.0	910481.0	1.316192	Y
6	ICIS 410-388102/18	10.0	13.351675	10.0	884528.0	1.335167	Y
7	IC 410-388102/19	25.0	34.187802	10.0	917393.0	1.367512	Y



Calibration

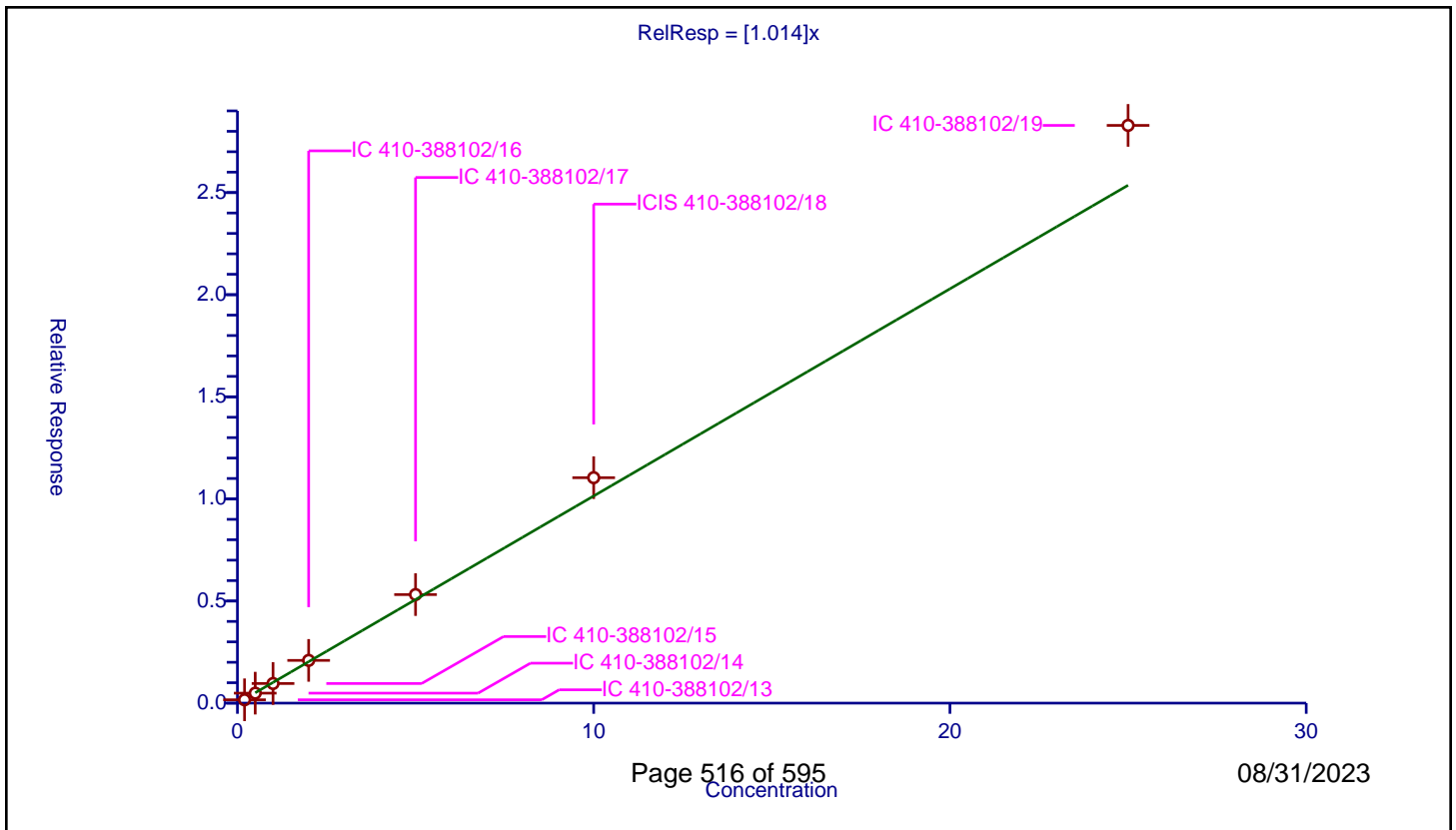
/ 1,2,4-Trichlorobenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.014

Error Coefficients	
Standard Error:	1150000
Relative Standard Error:	10.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.163586	10.0	868350.0	0.817931	Y
2	IC 410-388102/14	0.5	0.488336	10.0	834938.0	0.976671	Y
3	IC 410-388102/15	1.0	0.961032	10.0	851085.0	0.961032	Y
4	IC 410-388102/16	2.0	2.092723	10.0	870354.0	1.046362	Y
5	IC 410-388102/17	5.0	5.315191	10.0	910481.0	1.063038	Y
6	ICIS 410-388102/18	10.0	11.039311	10.0	884528.0	1.103931	Y
7	IC 410-388102/19	25.0	28.28877	10.0	917393.0	1.131551	Y



Calibration

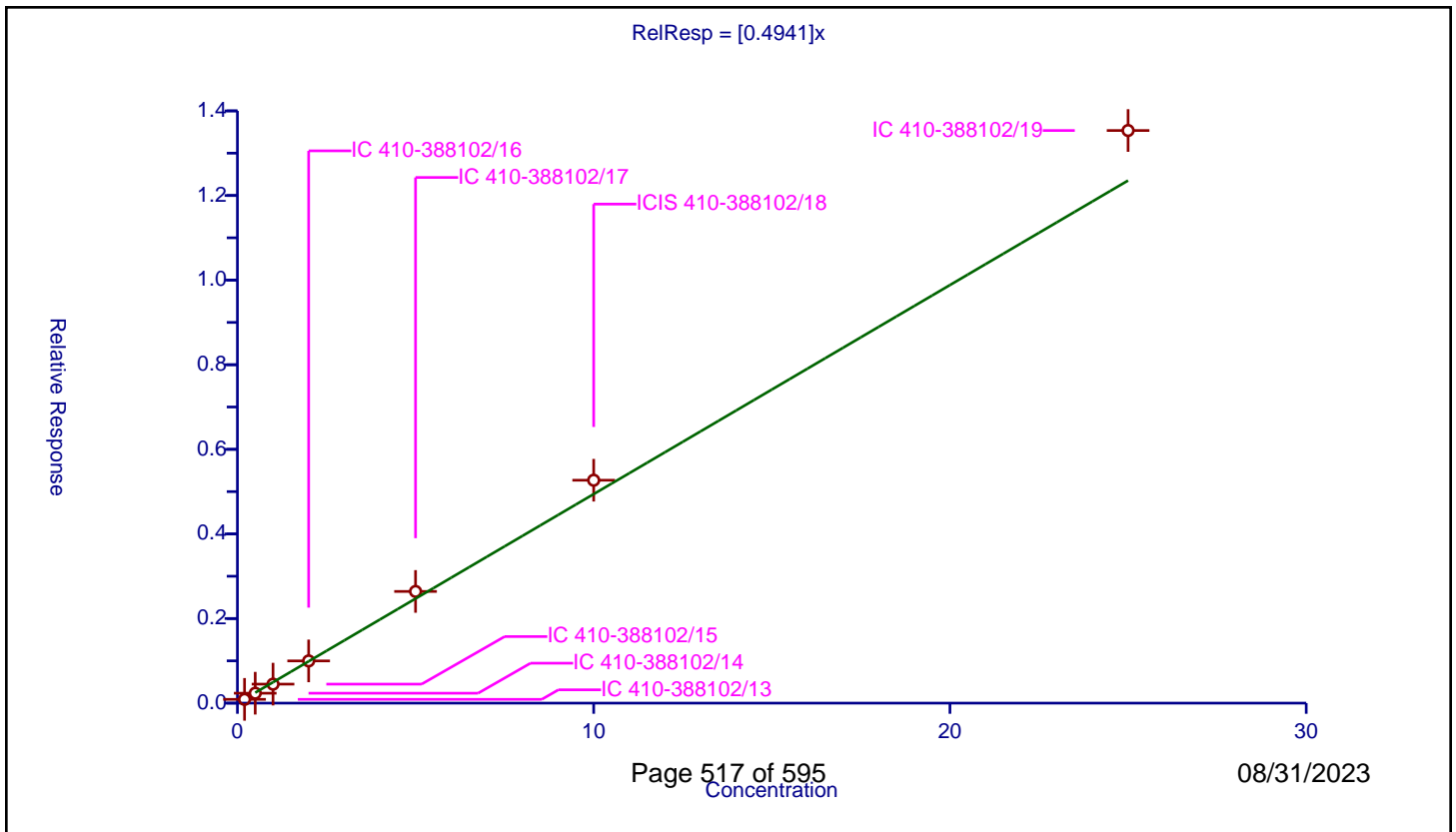
/ Hexachlorobutadiene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4941

Error Coefficients	
Standard Error:	552000
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 410-388102/13	0.2	0.089054	10.0	868350.0	0.44527	Y
2	IC 410-388102/14	0.5	0.234772	10.0	834938.0	0.469544	Y
3	IC 410-388102/15	1.0	0.448898	10.0	851085.0	0.448898	Y
4	IC 410-388102/16	2.0	0.997985	10.0	870354.0	0.498992	Y
5	IC 410-388102/17	5.0	2.639978	10.0	910481.0	0.527996	Y
6	ICIS 410-388102/18	10.0	5.269172	10.0	884528.0	0.526917	Y
7	IC 410-388102/19	25.0	13.535802	10.0	917393.0	0.541432	Y



Calibration

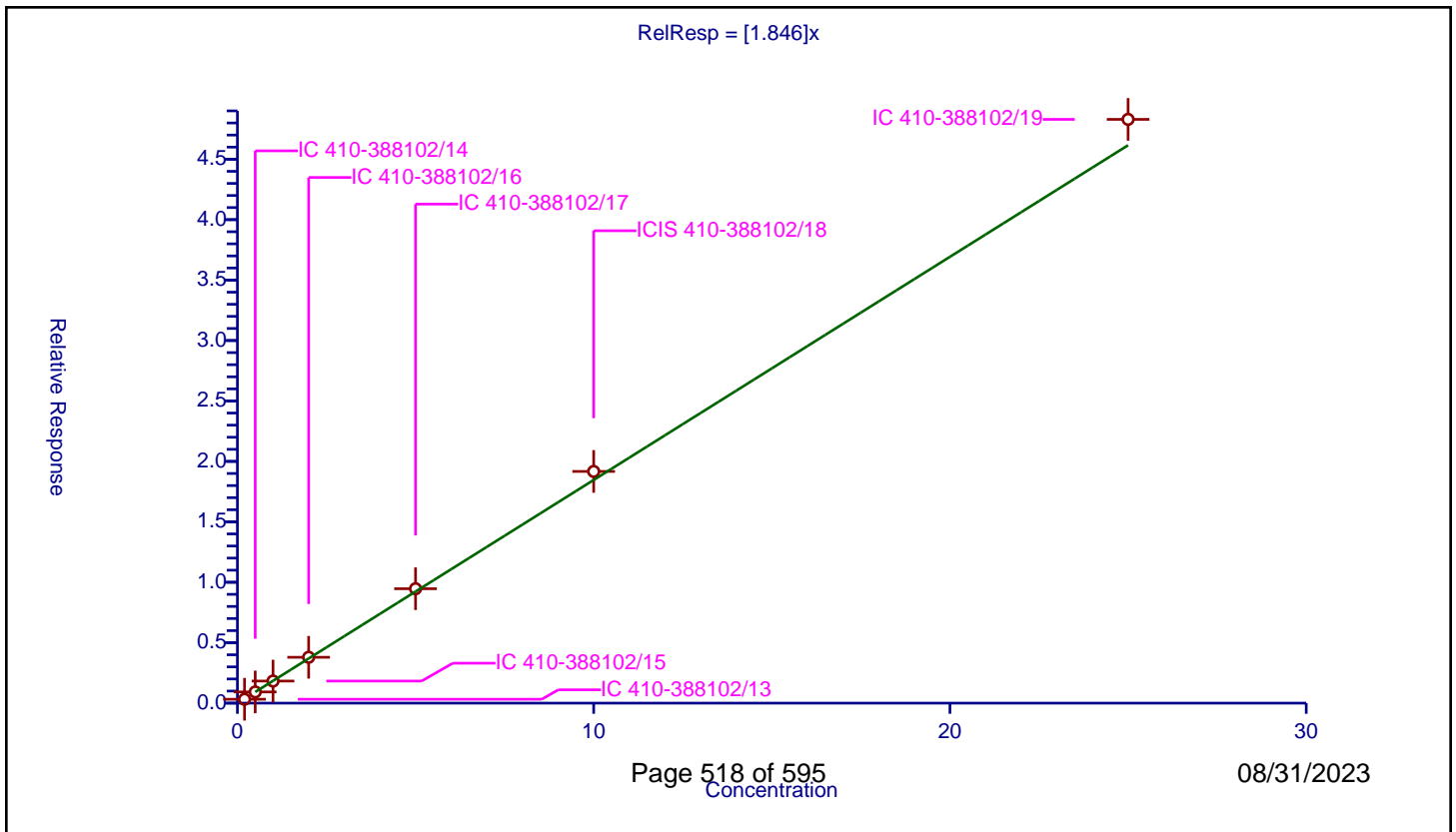
/ Naphthalene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.846

Error Coefficients	
Standard Error:	1970000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.320769	10.0	868350.0	1.603846	Y
2	IC 410-388102/14	0.5	0.927075	10.0	834938.0	1.85415	Y
3	IC 410-388102/15	1.0	1.826845	10.0	851085.0	1.826845	Y
4	IC 410-388102/16	2.0	3.793859	10.0	870354.0	1.896929	Y
5	IC 410-388102/17	5.0	9.466095	10.0	910481.0	1.893219	Y
6	ICIS 410-388102/18	10.0	19.170066	10.0	884528.0	1.917007	Y
7	IC 410-388102/19	25.0	48.297752	10.0	917393.0	1.93191	Y



Calibration

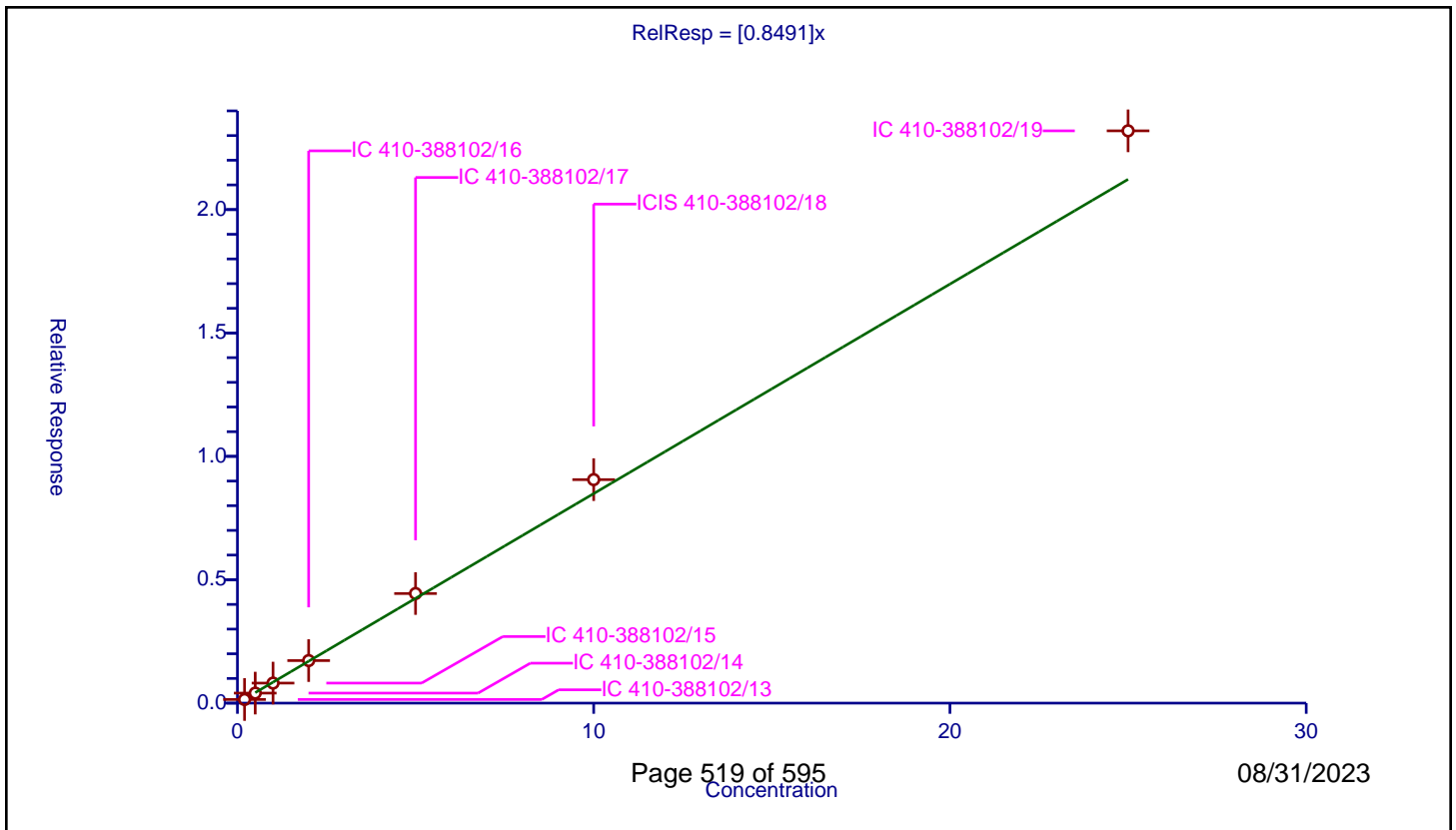
/ 1,2,3-Trichlorobenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8491

Error Coefficients	
Standard Error:	945000
Relative Standard Error:	7.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-388102/13	0.2	0.146853	10.0	868350.0	0.734266	Y
2	IC 410-388102/14	0.5	0.406629	10.0	834938.0	0.813258	Y
3	IC 410-388102/15	1.0	0.812046	10.0	851085.0	0.812046	Y
4	IC 410-388102/16	2.0	1.724425	10.0	870354.0	0.862212	Y
5	IC 410-388102/17	5.0	4.441356	10.0	910481.0	0.888271	Y
6	ICIS 410-388102/18	10.0	9.056717	10.0	884528.0	0.905672	Y
7	IC 410-388102/19	25.0	23.192078	10.0	917393.0	0.927683	Y



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-140485-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 410-388102/21 Calibration Date: 06/19/2023 21:07

Instrument ID: 19930 Calib Start Date: 06/19/2023 18:19

GC Column: R-624SilMS 30m ID: 0.25 (mm) Calib End Date: 06/19/2023 20:25

Lab File ID: IU19X20.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	0.4004	0.3483	0.1000	4.35	5.00	-13.0	30.0
Chloromethane	Ave	0.4068	0.3486	0.1000	4.28	5.00	-14.3	30.0
Vinyl chloride	Ave	0.3892	0.3475	0.1000	4.46	5.00	-10.7	30.0
1,3-Butadiene	Ave	0.4073	0.2992		3.67	5.00	-26.5	30.0
Bromomethane	Ave	0.3038	0.2659	0.1000	4.38	5.00	-12.5	30.0
Chloroethane	Ave	0.2329	0.2166	0.1000	4.65	5.00	-7.0	30.0
Dichlorofluoromethane	Ave	0.6499	0.5241		4.03	5.00	-19.4	30.0
Trichlorofluoromethane	Ave	0.4955	0.4545	0.1000	4.59	5.00	-8.3	30.0
Ethyl ether	Ave	0.2046	0.1909		4.67	5.01	-6.7	30.0
Freon 123a	Ave	0.3534	0.3205		4.53	5.00	-9.3	30.0
Acrolein	Ave	2.165	1.920		33.2	37.5	-11.3	30.0
1,1-Dichloroethene	Ave	0.2682	0.2593	0.1000	4.83	5.00	-3.3	30.0
Acetone	Ave	2.391	2.028	0.1000	53.0	62.5	-15.2	30.0
Freon 113	Ave	0.2847	0.2739	0.1000	4.81	5.00	-3.8	30.0
Methyl iodide	Ave	0.5640	0.5161		4.58	5.00	-8.5	30.0
Ethyl bromide	Ave	0.2347	0.2293		4.94	5.06	-2.3	30.0
Carbon disulfide	Ave	0.7273	0.6646	0.1000	4.57	5.00	-8.6	30.0
Methyl acetate	Ave	5.902	6.367	0.1000	5.39	5.00	7.9	30.0
Allyl chloride	Ave	0.4168	0.3807		4.57	5.00	-8.7	30.0
Methylene Chloride	Ave	0.2831	0.2674	0.1000	4.72	5.00	-5.5	30.0
t-Butyl alcohol	Ave	0.9514	0.8170		42.9	50.0	-14.1	30.0
Acrylonitrile	Ave	2.907	3.095		26.6	25.0	6.5	30.0
Methyl tert-butyl ether	Ave	0.7360	0.6681	0.1000	4.54	5.00	-9.2	30.0
trans-1,2-Dichloroethene	Ave	0.2985	0.2748	0.1000	4.60	5.00	-7.9	30.0
n-Hexane	Ave	0.3912	0.3498		4.47	5.00	-10.6	30.0
1,1-Dichloroethane	Ave	0.5113	0.4837	0.2000	4.73	5.00	-5.4	30.0
di-Isopropyl ether	Ave	0.8397	0.7764		4.62	5.00	-7.5	30.0
2-Chloro-1,3-butadiene	Ave	0.4276	0.4100		4.80	5.00	-4.1	30.0
Ethyl t-butyl ether	Ave	0.8020	0.7635		4.76	5.00	-4.8	30.0
2-Butanone (MEK)	Ave	4.608	4.254	0.1000	57.7	62.5	-7.7	30.0
cis-1,2-Dichloroethene	Ave	0.3321	0.3236	0.1000	4.87	5.00	-2.5	30.0
2,2-Dichloropropane	Ave	0.4608	0.4445		4.82	5.00	-3.5	30.0
Propionitrile	Ave	1.219	1.130		34.8	37.5	-7.3	30.0
Methacrylonitrile	Ave	4.809	4.437		34.6	37.5	-7.7	30.0
Bromochloromethane	Ave	0.1511	0.1441		4.77	5.00	-4.6	30.0
Tetrahydrofuran	Ave	1.516	1.392		22.9	25.0	-8.2	30.0
Chloroform	Ave	0.5282	0.4968	0.2000	4.70	5.00	-6.0	30.0
1,1,1-Trichloroethane	Ave	0.4933	0.4782	0.1000	4.85	5.00	-3.1	30.0
Cyclohexane	Ave	0.4674	0.4502	0.1000	4.82	5.00	-3.7	30.0
1,1-Dichloropropene	Ave	0.3927	0.3916		4.99	5.00	-0.3	30.0
Carbon tetrachloride	Ave	0.4394	0.4320	0.1000	4.92	5.00	-1.7	30.0



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-140485-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 410-388102/21 Calibration Date: 06/19/2023 21:07  
 Instrument ID: 19930 Calib Start Date: 06/19/2023 18:19  
 GC Column: R-624SilMS 30m ID: 0.25 (mm) Calib End Date: 06/19/2023 20:25  
 Lab File ID: IU19X20.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isobutyl alcohol	Ave	0.3380	0.2702		99.9	125	-20.1	30.0
Benzene	Ave	1.181	1.145	0.5000	4.85	5.00	-3.0	30.0
1,2-Dichloroethane	Ave	0.3201	0.3020	0.1000	4.72	5.00	-5.6	30.0
t-Amyl methyl ether	Ave	0.7413	0.7125		4.81	5.00	-3.9	30.0
n-Heptane	Ave	0.3757	0.3328		4.43	5.00	-11.4	30.0
n-Butanol	Ave	0.2596	0.2519		243	250	-3.0	30.0
Trichloroethene	Ave	0.3285	0.3080	0.2000	4.69	5.00	-6.2	30.0
Methylcyclohexane	Ave	0.5306	0.5118	0.1000	4.82	5.00	-3.6	30.0
1,2-Dichloropropane	Ave	0.2919	0.2770	0.1000	4.74	5.00	-5.1	30.0
Methyl methacrylate	Ave	9.478	8.727		4.60	5.00	-7.9	30.0
1,4-Dioxane	Ave	0.0551	0.0600	0.0050	136	125	8.7	30.0
Dibromomethane	Ave	0.1463	0.1403		4.79	5.00	-4.1	30.0
Bromodichloromethane	Ave	0.3795	0.3600	0.2000	4.74	5.00	-5.1	30.0
2-Nitropropane	Ave	3.099	2.514		4.06	5.00	-18.9	30.0
1-Bromo-2-chloroethane	Ave	0.2977	0.2836		4.76	5.00	-4.7	30.0
cis-1,3-Dichloropropene	Ave	0.4553	0.4287	0.2000	4.71	5.00	-5.9	30.0
4-Methyl-2-pentanone (MIBK)	Ave	12.37	11.72	0.1000	59.2	62.5	-5.2	30.0
Toluene	Ave	1.014	0.9874	0.4000	4.87	5.00	-2.6	30.0
trans-1,3-Dichloropropene	Ave	0.4787	0.4640	0.1000	4.85	5.00	-3.1	30.0
Ethyl methacrylate	Ave	0.3958	0.3797		4.80	5.00	-4.1	30.0
1,1,2-Trichloroethane	Ave	0.2862	0.2652	0.1000	4.63	5.00	-7.3	30.0
Tetrachloroethene	Ave	0.5290	0.5110	0.2000	4.83	5.00	-3.4	30.0
1,3-Dichloropropane	Ave	0.4529	0.4379		4.83	5.00	-3.3	30.0
2-Hexanone	Ave	8.750	8.281	0.1000	59.1	62.5	-5.4	30.0
Dibromochloromethane	Ave	0.3726	0.3572		4.79	5.00	-4.1	30.0
1,2-Dibromoethane (EDB)	Ave	0.2700	0.2601	0.1000	4.82	5.00	-3.7	30.0
1-Chlorohexane	Ave	0.5902	0.5297		4.49	5.00	-10.3	30.0
Chlorobenzene	Ave	1.186	1.119	0.5000	4.72	5.00	-5.7	30.0
1,1,1,2-Tetrachloroethane	Ave	0.4228	0.4160		4.92	5.00	-1.6	30.0
Ethylbenzene	Ave	1.976	1.898	0.1000	4.80	5.00	-4.0	30.0
m&p-Xylene	Ave	0.7994	0.7789	0.1000	9.74	10.0	-2.6	30.0
o-Xylene	Ave	0.7900	0.7609	0.3000	4.82	5.00	-3.7	30.0
Styrene	Ave	1.271	1.245	0.3000	4.90	5.00	-2.1	30.0
Bromoform	Ave	0.2417	0.2332	0.1000	4.82	5.00	-3.5	30.0
Isopropylbenzene	Ave	2.049	2.023	0.1000	4.94	5.00	-1.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5952	0.5637	0.3000	4.73	5.00	-5.3	30.0
Bromobenzene	Ave	0.8602	0.8298		4.82	5.00	-3.5	30.0
trans-1,4-Dichloro-2-butene	Ave	4.657	4.133		22.2	25.0	-11.3	30.0
1,2,3-Trichloropropane	Ave	0.1671	0.1616		4.84	5.00	-3.3	30.0
N-Propylbenzene	Ave	3.807	3.712		4.87	5.00	-2.5	30.0
2-Chlorotoluene	Ave	0.8316	0.8008		4.82	5.00	-3.7	30.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-140485-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 410-388102/21 Calibration Date: 06/19/2023 21:07  
 Instrument ID: 19930 Calib Start Date: 06/19/2023 18:19  
 GC Column: R-624SilMS 30m ID: 0.25 (mm) Calib End Date: 06/19/2023 20:25  
 Lab File ID: IU19X20.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3,5-Trimethylbenzene	Ave	2.902	2.762		4.76	5.00	-4.8	30.0
4-Chlorotoluene	Ave	0.8520	0.8209		4.82	5.00	-3.7	30.0
tert-Butylbenzene	Ave	0.6973	0.6719		4.82	5.00	-3.6	30.0
Pentachloroethane	Ave	0.5393	0.5204		4.82	5.00	-3.5	30.0
1,2,4-Trimethylbenzene	Ave	2.979	2.822		4.74	5.00	-5.3	30.0
sec-Butylbenzene	Ave	3.691	3.582		4.85	5.00	-2.9	30.0
1,3-Dichlorobenzene	Ave	1.681	1.571	0.6000	4.67	5.00	-6.6	30.0
p-Isopropyltoluene	Ave	3.291	3.189		4.85	5.00	-3.1	30.0
1,4-Dichlorobenzene	Ave	1.657	1.595	0.5000	4.81	5.00	-3.7	30.0
1,2,3-Trimethylbenzene	Ave	1.347	1.230		4.57	5.00	-8.7	30.0
Benzyl chloride	Ave	0.2558	0.2330		4.56	5.00	-8.9	30.0
n-Butylbenzene	Ave	1.473	1.434		4.87	5.00	-2.7	30.0
1,2-Dichlorobenzene	Ave	1.579	1.466	0.4000	4.64	5.00	-7.2	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0973	0.0942	0.0500	4.84	5.00	-3.2	30.0
1,3,5-Trichlorobenzene	Ave	1.261	1.170		4.64	5.00	-7.2	30.0
1,2,4-Trichlorobenzene	Ave	1.014	0.9728	0.2000	4.80	5.00	-4.1	30.0
Hexachlorobutadiene	Ave	0.4941	0.4866		4.92	5.00	-1.5	30.0
Naphthalene	Ave	1.846	1.721		4.66	5.00	-6.8	30.0
1,2,3-Trichlorobenzene	Ave	0.8491	0.8046		4.74	5.00	-5.2	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	0.2569	0.2580		10.0	10.0	0.5	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0509	0.0537		10.5	10.0	5.5	30.0
Toluene-d8 (Surr)	Ave	1.286	1.295		10.1	10.0	0.7	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4844	0.4894		10.1	10.0	1.0	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X20.D  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 19-Jun-2023 21:07:30 ALS Bottle#: 20 Worklist Smp#: 21  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0086929-021  
 Misc. Info.: ICV LG  
 Operator ID: KNK41612 Instrument ID: 19930  
 Sublist:  
 Method: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 27-Jun-2023 12:31:25 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1687

First Level Reviewer: DVW2

Date: 21-Jun-2023 08:13:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.855	1.855	0.000	99	332540	5.00	4.35	
4 Chloromethane	50	2.044	2.050	-0.006	99	332810	5.00	4.28	
5 Vinyl chloride	62	2.148	2.160	-0.012	98	331776	5.00	4.46	
6 Butadiene	39	2.154	2.160	-0.006	90	285710	5.00	3.67	M
7 Bromomethane	94	2.459	2.465	-0.006	90	253865	5.00	4.38	
8 Chloroethane	64	2.532	2.538	-0.006	100	206791	5.00	4.65	
9 Dichlorofluoromethane	67	2.757	2.764	-0.007	97	500400	5.00	4.03	
10 Trichlorofluoromethane	101	2.824	2.824	0.000	96	433916	5.00	4.59	
11 Ethyl ether	59	3.044	3.050	-0.006	90	182439	5.01	4.67	
13 1,2-Dichloro-1,1,2-trifluoroethane	67	3.129	3.142	-0.013	90	306017	5.00	4.53	
14 Acrolein	56	3.202	3.209	-0.007	98	207154	37.5	33.2	
15 1,1-Dichloroethene	96	3.337	3.337	0.000	97	247568	5.00	4.83	
16 Acetone	43	3.361	3.361	0.000	99	364839	62.5	53.0	
17 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.379	3.385	-0.006	90	261561	5.00	4.81	
18 Iodomethane	142	3.519	3.526	-0.007	98	492761	5.00	4.58	
19 Ethyl bromide	108	3.544	3.550	-0.006	98	221545	5.06	4.94	
20 Carbon disulfide	76	3.623	3.629	-0.006	99	634568	5.00	4.57	
23 Methyl acetate	43	3.757	3.757	0.000	23	91621	5.00	5.39	M
24 3-Chloro-1-propene	41	3.776	3.782	-0.006	91	363509	5.00	4.57	
25 Methylene Chloride	84	3.946	3.958	-0.012	91	255339	5.00	4.72	
* 26 t-Butyl alcohol-d10 (IS)	65	3.958	3.977	-0.019	98	143904	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.080	4.093	-0.013	98	117574	50.0	42.9	
28 Acrylonitrile	53	4.275	4.282	-0.007	97	222687	25.0	26.6	
29 Methyl tert-butyl ether	73	4.336	4.342	-0.006	89	637850	5.00	4.54	
30 trans-1,2-Dichloroethene	96	4.349	4.355	-0.006	98	262384	5.00	4.60	
31 Hexane	57	4.769	4.781	-0.012	92	333993	5.00	4.47	
32 1,1-Dichloroethane	63	5.013	5.013	0.000	96	461799	5.00	4.73	
35 Isopropyl ether	45	5.074	5.074	0.000	93	741335	5.00	4.62	
36 2-Chloro-1,3-butadiene	53	5.123	5.123	0.000	90	391488	5.00	4.80	
37 Tert-butyl ethyl ether	59	5.611	5.623	-0.012	97	728931	5.00	4.76	

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	5.806	5.812	-0.006	99	765203	62.5	57.7	
39 cis-1,2-Dichloroethene	96	5.848	5.854	-0.006	80	309006	5.00	4.87	
40 2,2-Dichloropropane	77	5.860	5.867	-0.007	89	424413	5.00	4.82	
43 Propionitrile	54	5.897	5.891	0.006	98	121929	37.5	34.8	
45 Methacrylonitrile	67	6.110	6.110	0.000	91	478875	37.5	34.6	
46 Chlorobromomethane	128	6.184	6.190	-0.006	88	137582	5.00	4.77	
47 Tetrahydrofuran	71	6.190	6.196	-0.006	74	100129	25.0	22.9	
48 Chloroform	83	6.342	6.342	0.000	93	474321	5.00	4.70	
\$ 49 Dibromofluoromethane (Surr)	113	6.555	6.555	0.000	95	492721	10.0	10.0	
50 1,1,1-Trichloroethane	97	6.562	6.568	-0.006	98	456568	5.00	4.85	
51 Cyclohexane	56	6.665	6.671	-0.006	89	429888	5.00	4.82	
54 Carbon tetrachloride	117	6.781	6.781	0.000	97	412457	5.00	4.92	
53 1,1-Dichloropropene	75	6.775	6.781	-0.006	95	373859	5.00	4.99	
55 Isobutyl alcohol	41	6.940	6.940	0.000	95	97204	125.0	99.9	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.007	7.013	-0.006	91	102560	10.0	10.5	
57 Benzene	78	7.037	7.043	-0.006	97	1093365	5.00	4.85	
58 1,2-Dichloroethane	62	7.110	7.116	-0.006	98	288380	5.00	4.72	
60 Tert-amyl methyl ether	73	7.238	7.244	-0.006	98	680277	5.00	4.81	
* 61 Fluorobenzene (IS)	96	7.446	7.452	-0.006	98	1909555	10.0	10.0	
62 n-Heptane	43	7.470	7.470	0.000	92	317781	5.00	4.43	
63 n-Butanol	56	7.848	7.836	0.012	87	181235	250.0	242.6	
64 Trichloroethene	95	7.933	7.933	0.000	96	294102	5.00	4.69	
65 Methylcyclohexane	83	8.244	8.244	0.000	91	488652	5.00	4.82	
66 1,2-Dichloropropane	63	8.262	8.269	-0.007	95	264486	5.00	4.74	
67 Methyl methacrylate	69	8.360	8.354	0.006	87	125585	5.00	4.60	
68 1,4-Dioxane	88	8.372	8.366	0.006	28	21568	125.0	135.9	M
69 Dibromomethane	93	8.372	8.378	-0.006	90	133984	5.00	4.79	
71 Dichlorobromomethane	83	8.616	8.616	0.000	99	343706	5.00	4.74	
72 2-Nitropropane	41	8.878	8.884	-0.006	99	36173	5.00	4.06	
75 1-Bromo-2-chloroethane	63	9.012	9.012	0.000	98	270736	5.00	4.76	
76 cis-1,3-Dichloropropene	75	9.177	9.177	0.000	97	409297	5.00	4.71	
77 4-Methyl-2-pentanone (MIBK)	43	9.360	9.360	0.000	96	2108105	62.5	59.2	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.500	-0.006	93	1943756	10.0	10.1	
79 Toluene	92	9.573	9.579	-0.006	99	741055	5.00	4.87	
97 trans-1,3-Dichloropropene	75	9.848	9.848	0.000	92	348233	5.00	4.85	
99 Ethyl methacrylate	69	9.915	9.915	0.000	88	284946	5.00	4.80	
100 1,1,2-Trichloroethane	97	10.055	10.055	0.000	90	199046	5.00	4.63	
101 Tetrachloroethene	166	10.140	10.146	-0.006	98	383524	5.00	4.83	
102 1,3-Dichloropropane	76	10.219	10.219	0.000	89	328646	5.00	4.83	
103 2-Hexanone	43	10.274	10.274	0.000	95	1489528	62.5	59.1	
105 Chlorodibromomethane	129	10.439	10.439	0.000	89	268087	5.00	4.79	
106 Ethylene Dibromide	107	10.549	10.549	0.000	99	195236	5.00	4.82	
* 107 Chlorobenzene-d5 (IS)	117	10.988	10.988	0.000	84	1501017	10.0	10.0	
108 1-Chlorohexane	91	11.000	11.000	0.000	95	397532	5.00	4.49	a
109 Chlorobenzene	112	11.012	11.018	-0.006	97	839963	5.00	4.72	
111 1,1,1,2-Tetrachloroethane	131	11.103	11.097	0.006	97	312189	5.00	4.92	
112 Ethylbenzene	91	11.103	11.103	0.000	98	1424703	5.00	4.80	a
113 m-Xylene & p-Xylene	106	11.219	11.219	0.000	93	1169154	10.0	9.74	
114 o-Xylene	106	11.554	11.554	0.000	95	571089	5.00	4.82	
115 Styrene	104	11.567	11.567	0.000	95	934299	5.00	4.90	
116 Bromoform	173	11.725	11.725	0.000	99	175012	5.00	4.82	
117 Isopropylbenzene	105	11.859	11.859	0.000	95	1517986	5.00	4.94	

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	12.000	12.000	0.000	96	734581	10.0	10.1	
121 1,1,2,2-Tetrachloroethane	83	12.103	12.103	0.000	94	257715	5.00	4.73	
122 Bromobenzene	156	12.115	12.115	0.000	94	379404	5.00	4.82	
123 trans-1,4-Dichloro-2-butene	53	12.128	12.128	0.000	92	297356	25.0	22.2	
124 1,2,3-Trichloropropane	110	12.146	12.146	0.000	81	73904	5.00	4.84	
125 N-Propylbenzene	91	12.189	12.189	-0.001	98	1697161	5.00	4.87	
126 2-Chlorotoluene	126	12.262	12.262	0.000	97	366155	5.00	4.82	a
127 1,3,5-Trimethylbenzene	105	12.323	12.323	0.000	94	1262779	5.00	4.76	
128 4-Chlorotoluene	126	12.353	12.353	0.000	97	375312	5.00	4.82	
129 tert-Butylbenzene	134	12.566	12.566	0.000	92	307218	5.00	4.82	
130 Pentachloroethane	167	12.597	12.597	0.000	92	237922	5.00	4.82	
131 1,2,4-Trimethylbenzene	105	12.609	12.609	0.000	96	1290272	5.00	4.74	
132 sec-Butylbenzene	105	12.731	12.731	0.000	93	1637677	5.00	4.85	
133 1,3-Dichlorobenzene	146	12.829	12.829	0.000	99	718228	5.00	4.67	
134 4-Isopropyltoluene	119	12.841	12.841	0.000	97	1458168	5.00	4.85	
* 135 1,4-Dichlorobenzene-d4	152	12.883	12.884	-0.001	93	914425	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.902	12.902	0.000	96	729452	5.00	4.81	
137 1,2,3-Trimethylbenzene	120	12.914	12.914	0.000	98	562323	5.00	4.57	
138 Benzyl chloride	126	12.981	12.981	0.000	98	106540	5.00	4.56	
139 n-Butylbenzene	92	13.127	13.133	-0.006	96	655530	5.00	4.87	
140 1,2-Dichlorobenzene	146	13.164	13.158	0.006	99	670246	5.00	4.64	
142 1,2-Dibromo-3-Chloropropane	155	13.707	13.700	0.006	91	43063	5.00	4.84	
143 1,3,5-Trichlorobenzene	180	13.828	13.828	0.000	98	534823	5.00	4.64	
144 1,2,4-Trichlorobenzene	180	14.249	14.249	0.000	94	444787	5.00	4.80	
145 Hexachlorobutadiene	225	14.334	14.334	0.000	95	222490	5.00	4.92	
146 Naphthalene	128	14.432	14.426	0.006	96	787088	5.00	4.66	
147 1,2,3-Trichlorobenzene	180	14.572	14.572	0.000	96	367878	5.00	4.74	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
165 Isopropyl alcohol	45		0.000				ND	ND	

### QC Flag Legend

#### Processing Flags

ND - Not Detected or Marked ND

#### Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

MSV_LCS_VOC#1_00115	Amount Added: 12.50	Units: uL	
MSV_LCS_ACROL_00118	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_00145	Amount Added: 12.50	Units: uL	
MSV_LCS_Penta_00029	Amount Added: 12.50	Units: uL	
MSV_LLcentISS_00007	Amount Added: 5.00	Units: uL	Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X20.D

Injection Date: 19-Jun-2023 21:07:30

Instrument ID: 19930

Operator ID: KNK41612

Lims ID: ICV

Worklist Smp#: 21

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

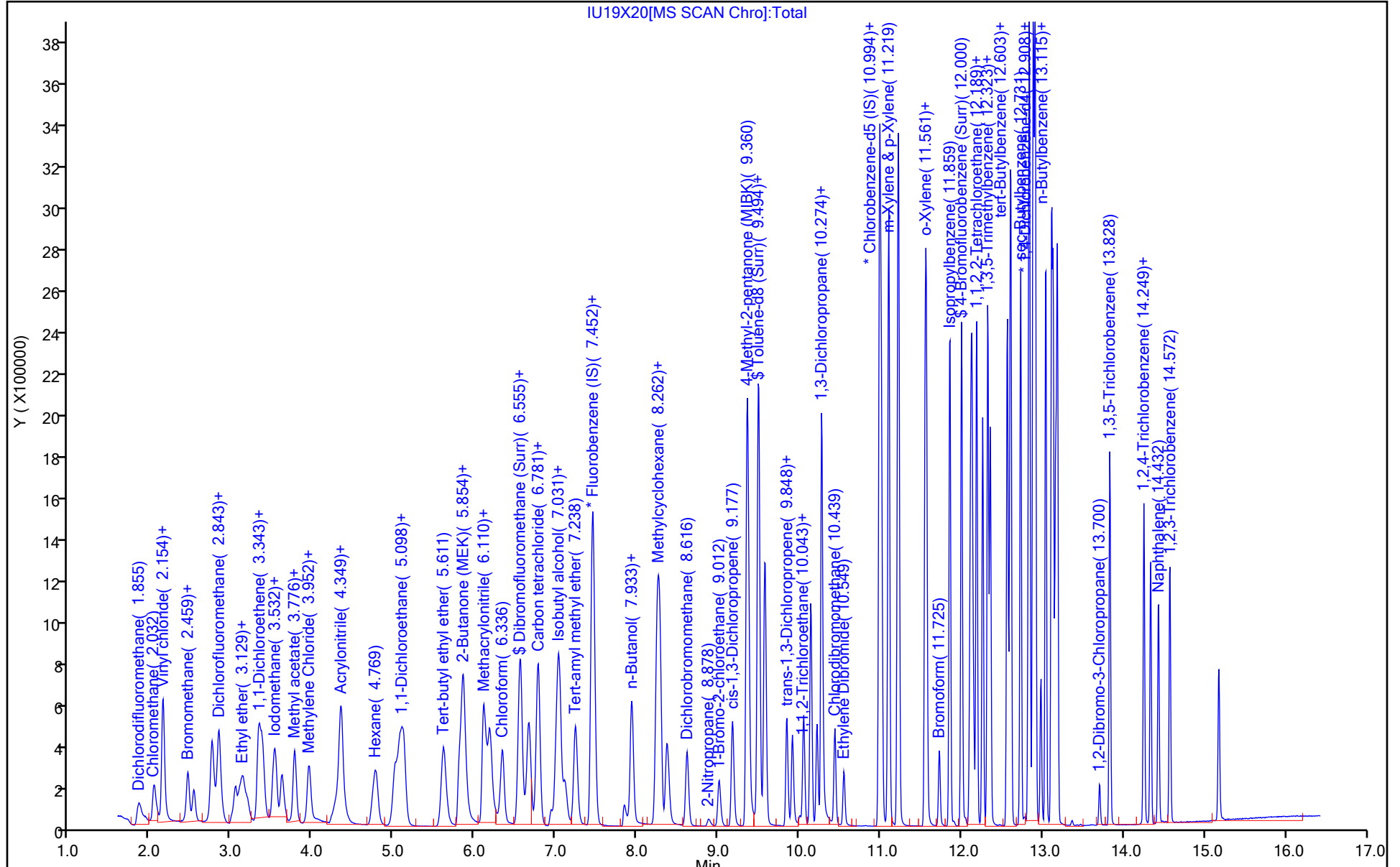
ALS Bottle#: 20

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



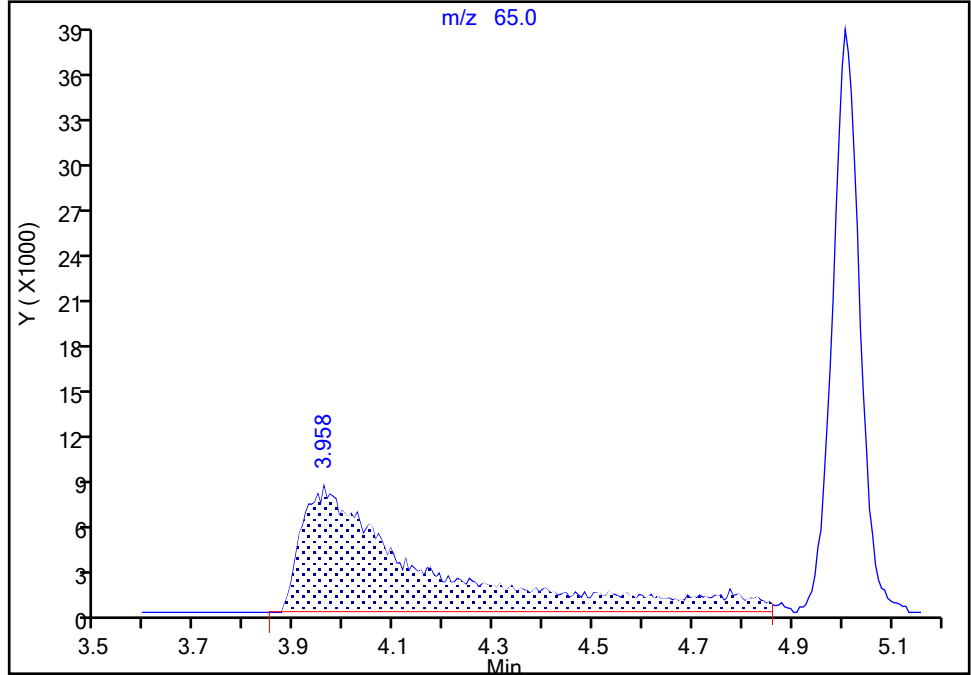
Eurofins Lancaster Laboratories Environment Testing, LLC

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Injection Date: 19-Jun-2023 21:07:30 Instrument ID: 19930  
Lims ID: ICV  
Client ID:  
Operator ID: KNK41612 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

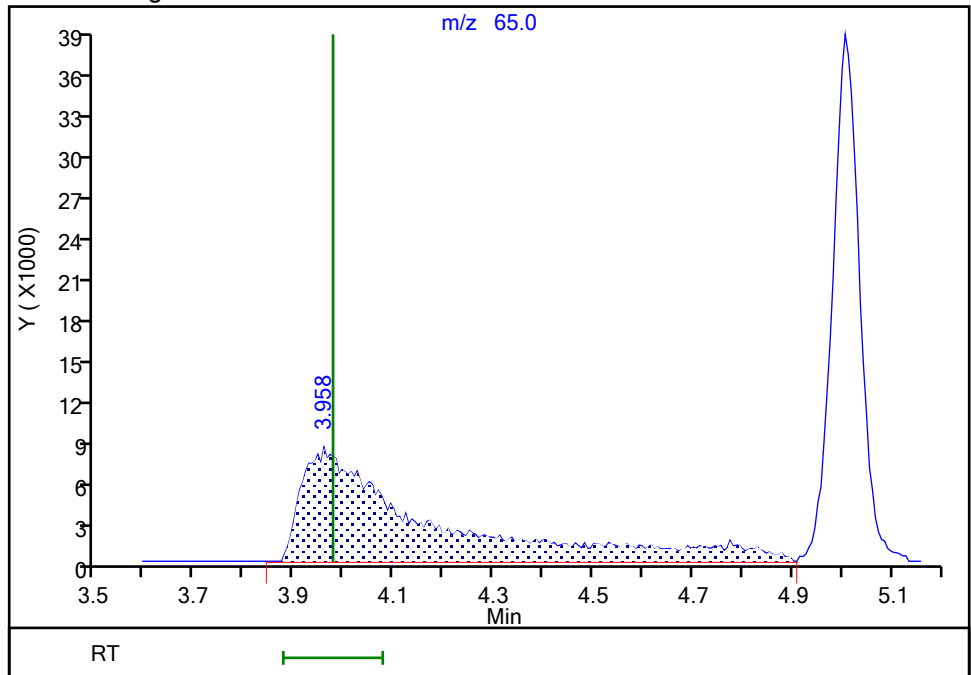
RT: 3.96  
Area: 142993  
Amount: 50.000000  
Amount Units: ug/l

Processing Integration Results



RT: 3.96  
Area: 143904  
Amount: 50.000000  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 08:11:25 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins Lancaster Laboratories Environment Testing, LLC

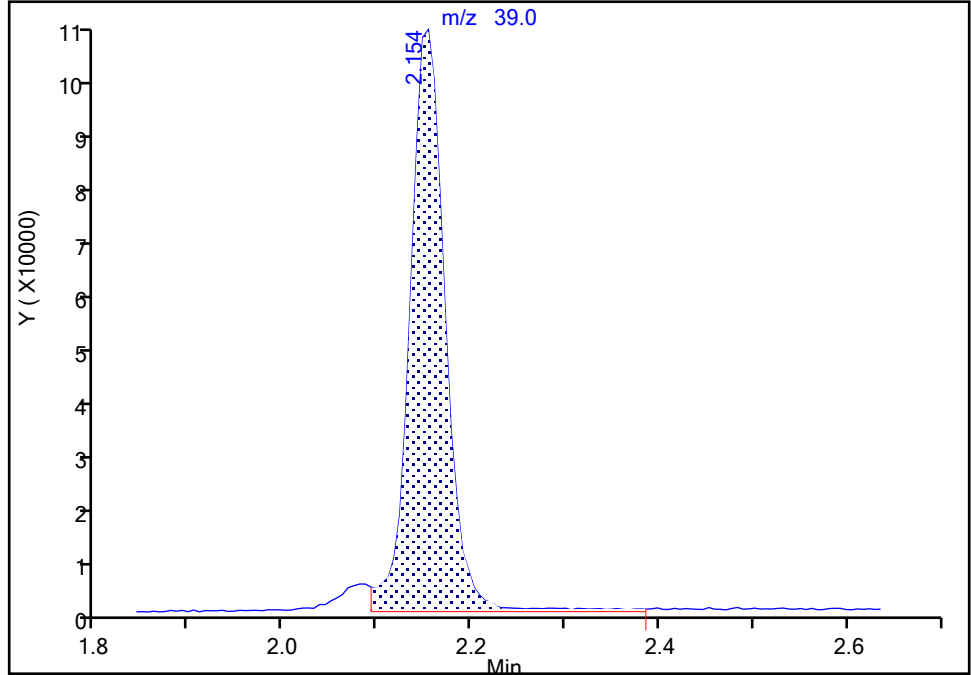
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Injection Date: 19-Jun-2023 21:07:30 Instrument ID: 19930  
Lims ID: ICV  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 20 Worklist Smp#: 21  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

6 Butadiene, CAS: 106-99-0

Signal: 1

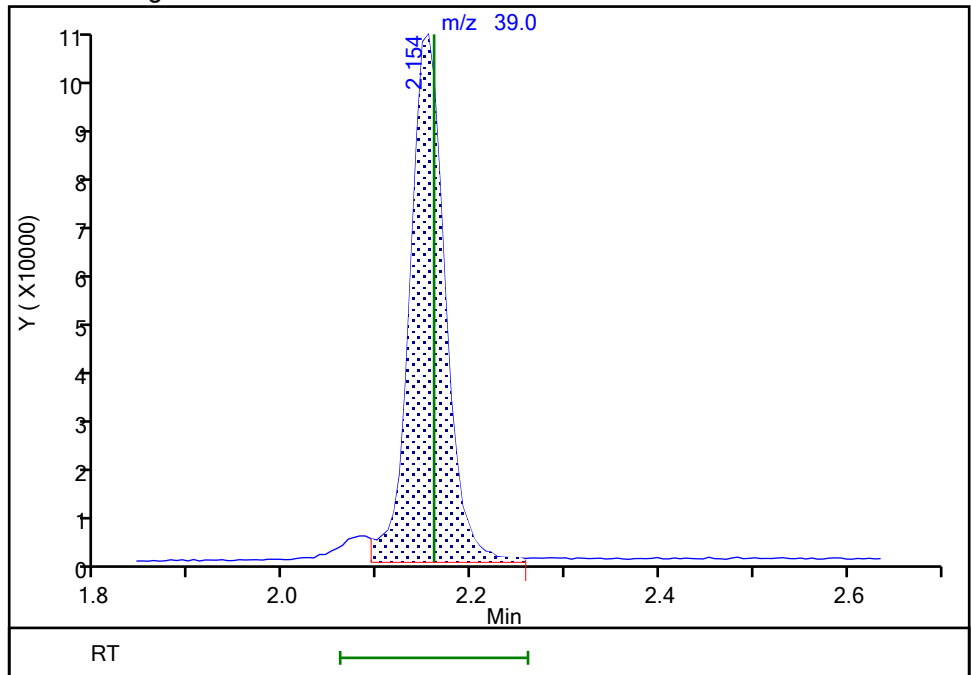
RT: 2.15  
Area: 289543  
Amount: 3.723161  
Amount Units: ug/l

Processing Integration Results



RT: 2.15  
Area: 285710  
Amount: 3.673874  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 08:10:59 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

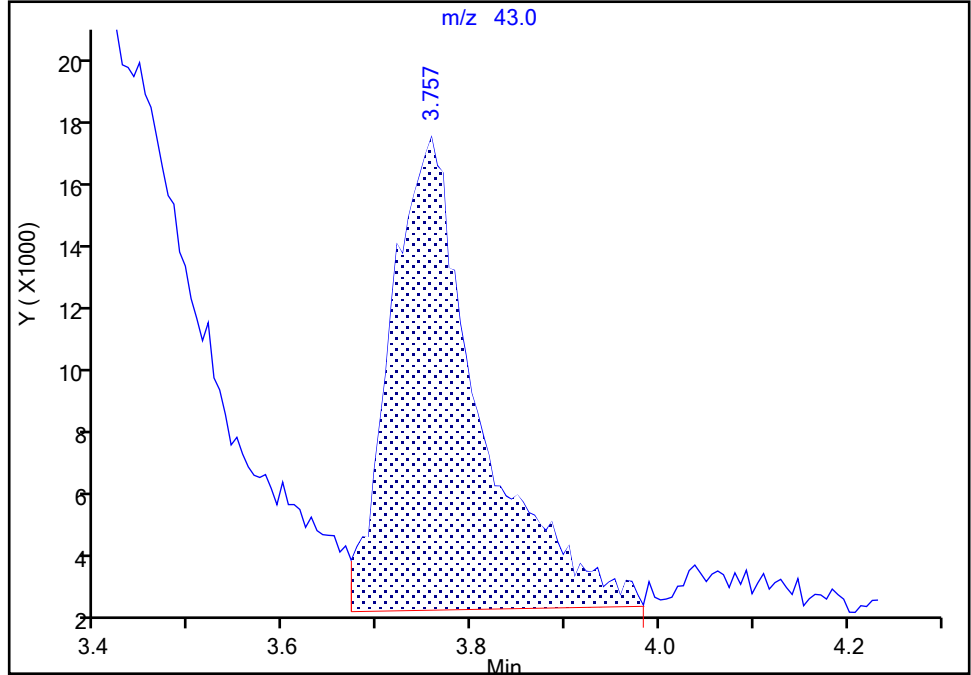
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Injection Date: 19-Jun-2023 21:07:30 Instrument ID: 19930  
Lims ID: ICV  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 20 Worklist Smp#: 21  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

23 Methyl acetate, CAS: 79-20-9

Signal: 1

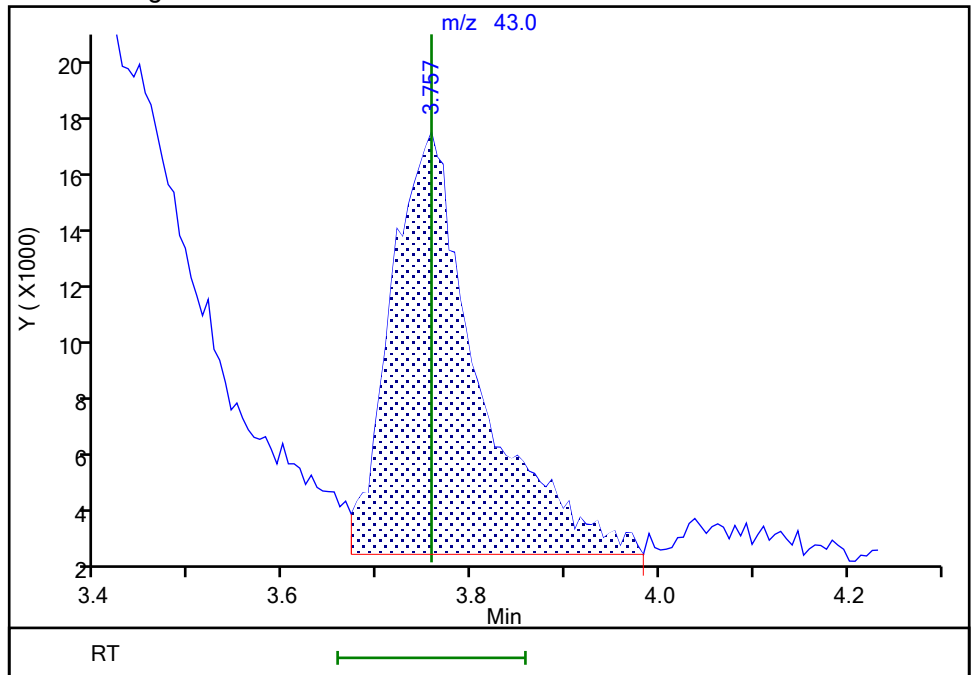
RT: 3.76  
Area: 93028  
Amount: 5.511550  
Amount Units: ug/l

Processing Integration Results



RT: 3.76  
Area: 91621  
Amount: 5.393827  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 08:11:17 -04:00:00 (UTC)

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

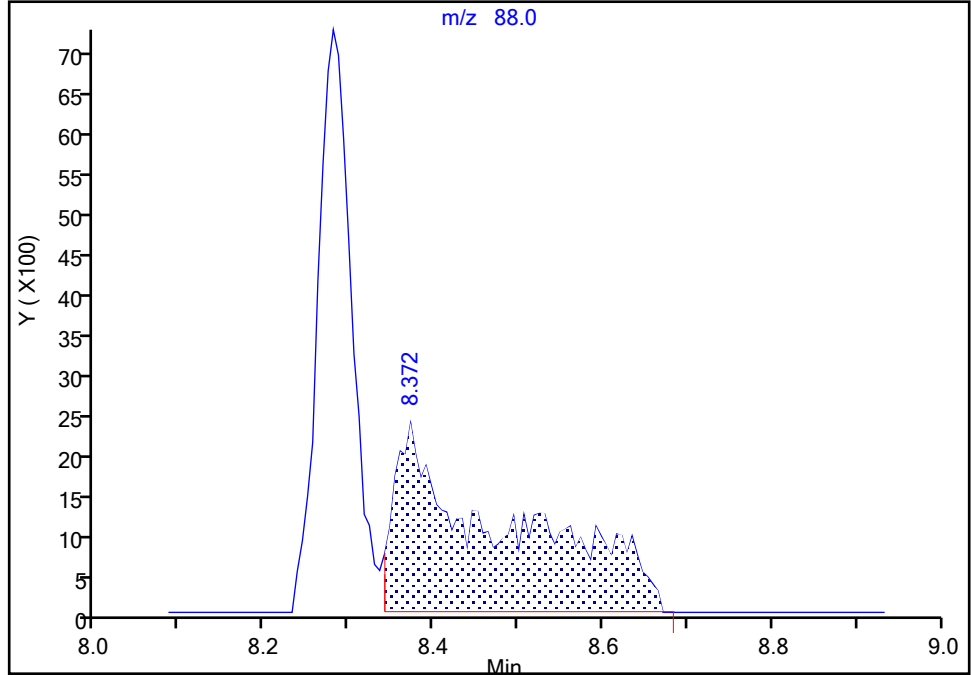
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Injection Date: 19-Jun-2023 21:07:30 Instrument ID: 19930  
Lims ID: ICV  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 20 Worklist Smp#: 21  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

68 1,4-Dioxane, CAS: 123-91-1

Signal: 1

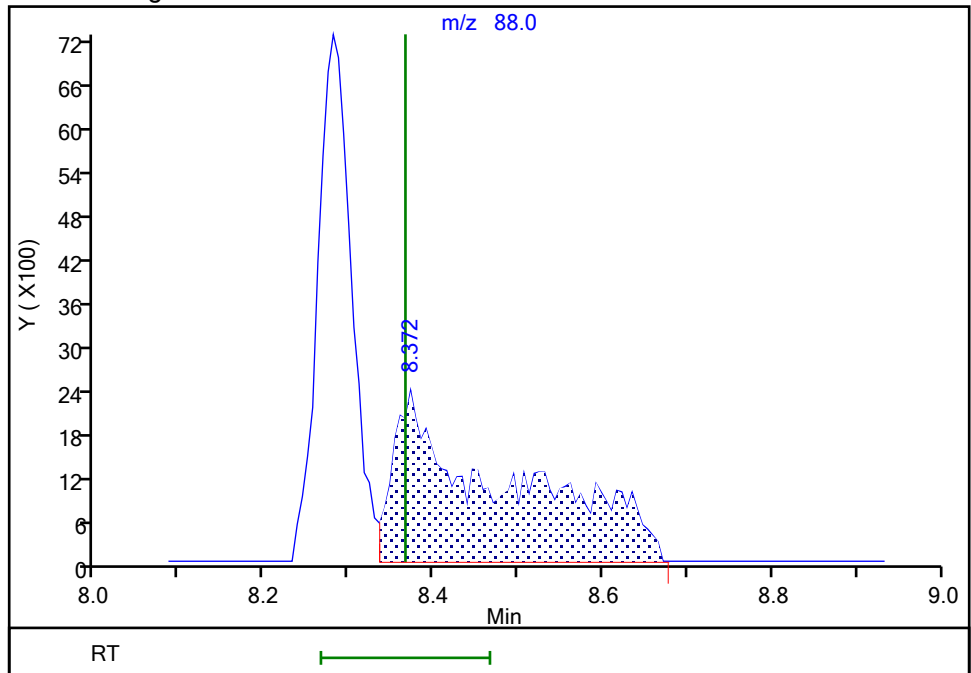
RT: 8.37  
Area: 21375  
Amount: 135.6946  
Amount Units: ug/l

Processing Integration Results



RT: 8.37  
Area: 21568  
Amount: 135.9211  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 08:11:47 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

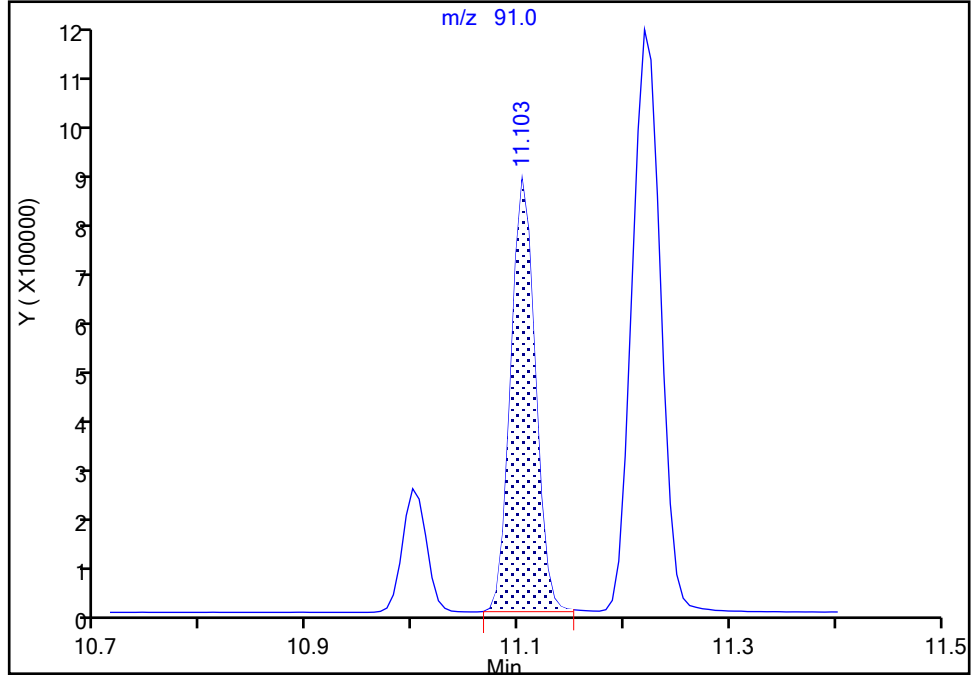
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Injection Date: 19-Jun-2023 21:07:30 Instrument ID: 19930  
Lims ID: ICV  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 20 Worklist Smp#: 21  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

108 1-Chlorohexane, CAS: 544-10-5

Signal: 1

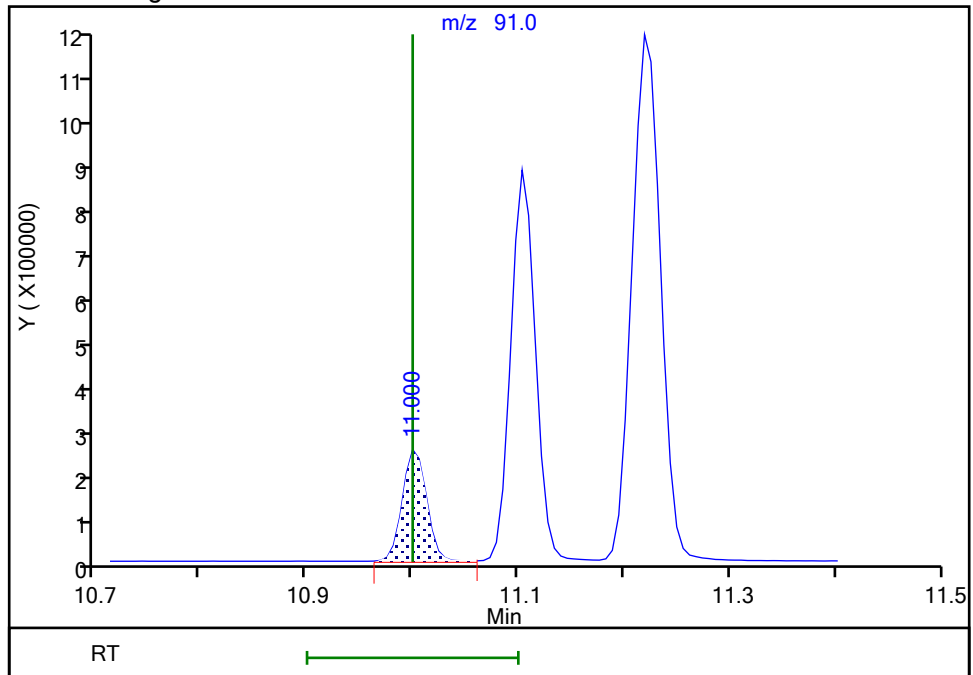
RT: 11.10  
Area: 1422236  
Amount: 16.054157  
Amount Units: ug/l

Processing Integration Results



RT: 11.00  
Area: 397532  
Amount: 4.487329  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 22-Jun-2023 07:49:02 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

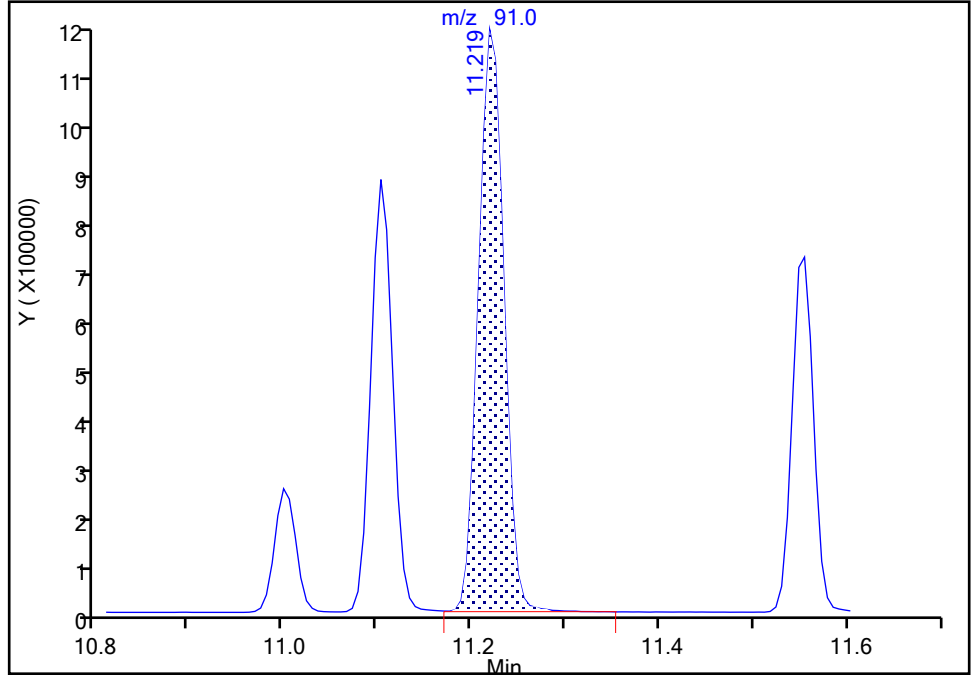
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Injection Date: 19-Jun-2023 21:07:30 Instrument ID: 19930  
Lims ID: ICV  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 20 Worklist Smp#: 21  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

112 Ethylbenzene, CAS: 100-41-4

Signal: 1

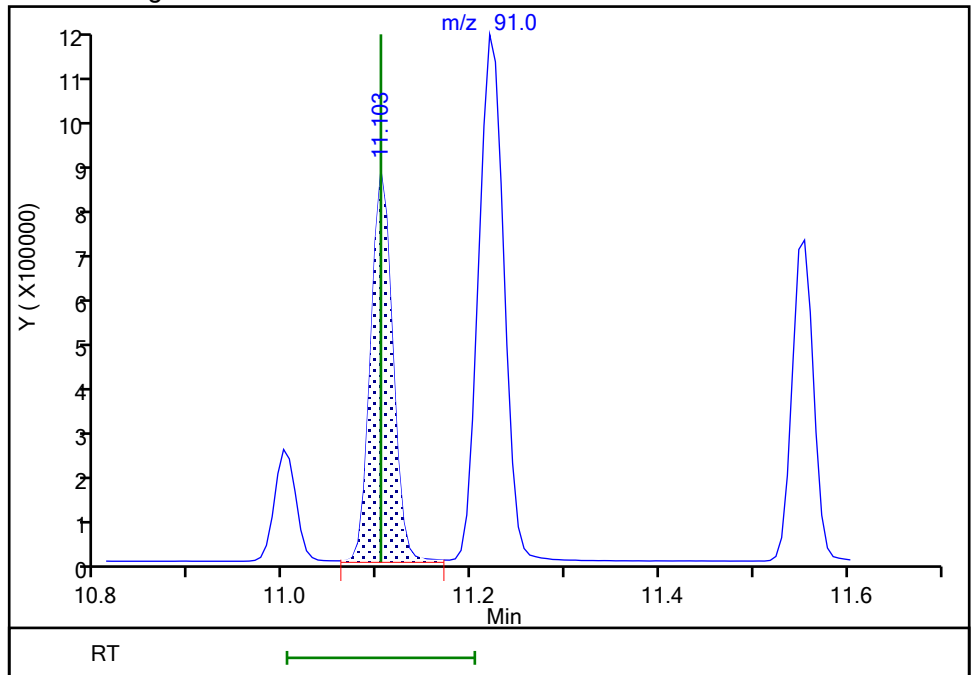
RT: 11.22  
Area: 2233460  
Amount: 7.528667  
Amount Units: ug/l

Processing Integration Results



RT: 11.10  
Area: 1424703  
Amount: 4.802466  
Amount Units: ug/l

Manual Integration Results



Reviewer: DVW2, 21-Jun-2023 15:40:53 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

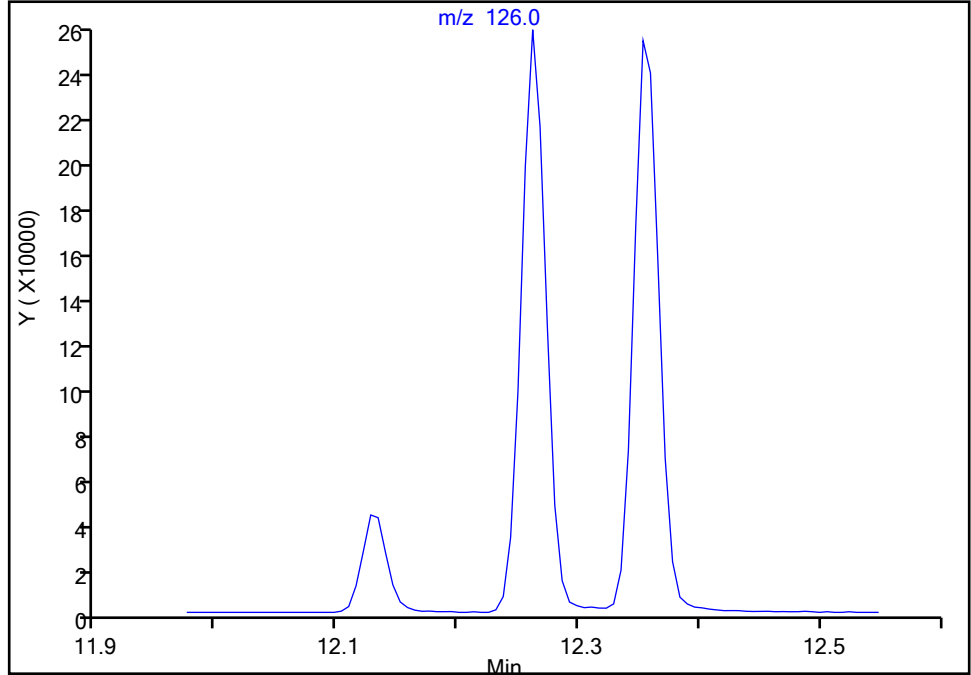
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Injection Date: 19-Jun-2023 21:07:30 Instrument ID: 19930  
Lims ID: ICV  
Client ID:  
Operator ID: KNK41612 ALS Bottle#: 20 Worklist Smp#: 21  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column (0.25mm ID) Detector: MS Quad

126 2-Chlorotoluene, CAS: 95-49-8

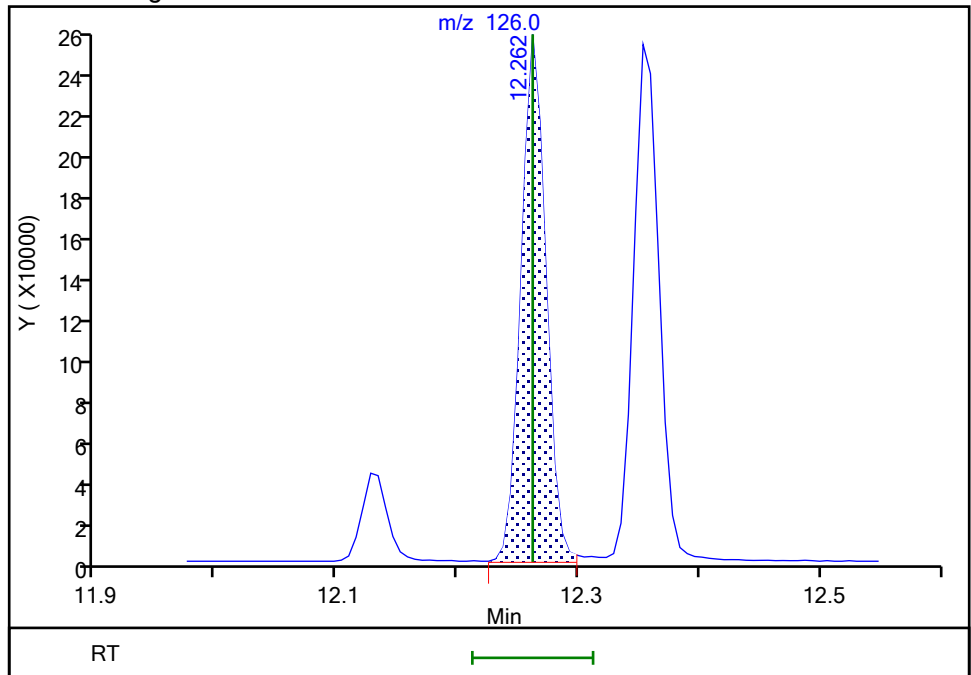
Signal: 1

Not Detected  
Expected RT: 12.26

Processing Integration Results



Manual Integration Results



RT: 12.26  
Area: 366155  
Amount: 4.815269  
Amount Units: ug/l

Reviewer: DVW2, 21-Jun-2023 15:40:58 -04:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-140485-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 410-413930/3 Calibration Date: 08/29/2023 18:06  
 Instrument ID: 19930 Calib Start Date: 06/19/2023 18:19  
 GC Column: R-624SilMS 30m ID: 0.25 (mm) Calib End Date: 06/19/2023 20:25  
 Lab File ID: IG29X02.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	0.4004	0.3438	0.1000	8.59	10.0	-14.1	20.0
Chloromethane	Ave	0.4068	0.3951	0.1000	9.71	10.0	-2.9	20.0
Vinyl chloride	Ave	0.3892	0.3561	0.1000	9.15	10.0	-8.5	20.0
1,3-Butadiene	Ave	0.4073	0.4568		11.2	10.0	12.2	20.0
Bromomethane	Ave	0.3038	0.2534	0.1000	8.34	10.0	-16.6	20.0
Chloroethane	Ave	0.2329	0.2073	0.1000	8.90	10.0	-11.0	20.0
Dichlorofluoromethane	Ave	0.6499	0.5845		8.99	10.0	-10.1	20.0
Trichlorofluoromethane	Ave	0.4955	0.4744	0.1000	9.57	10.0	-4.3	20.0
Ethyl ether	Ave	0.2046	0.2279		11.1	10.0	11.4	20.0
Freon 123a	Ave	0.3534	0.3427		9.70	10.0	-3.0	20.0
Acrolein	Ave	2.165	0.9248		214	500	-57.3*	20.0
1,1-Dichloroethene	Ave	0.2682	0.2537	0.1000	9.46	10.0	-5.4	20.0
Acetone	Ave	2.391	2.701	0.1000	113	100	13.0	20.0
Freon 113	Ave	0.2847	0.2718	0.1000	9.55	10.0	-4.5	20.0
Methyl iodide	Ave	0.5640	0.5054		8.96	10.0	-10.4	20.0
Ethyl bromide	Ave	0.2347	0.2211		9.41	9.99	-5.8	20.0
Carbon disulfide	Ave	0.7273	0.7596	0.1000	10.4	10.0	4.5	20.0
Methyl acetate	Ave	5.902	7.184	0.1000	12.2	10.0	21.7*	20.0
Allyl chloride	Ave	0.4168	0.4327		10.4	10.0	3.8	20.0
Methylene Chloride	Ave	0.2831	0.2884	0.1000	10.2	10.0	1.9	20.0
t-Butyl alcohol	Ave	0.9514	0.8511		179	200	-10.5	20.0
Acrylonitrile	Ave	2.907	3.870		33.3	25.0	33.1*	20.0
Methyl tert-butyl ether	Ave	0.7360	0.7030	0.1000	9.55	10.0	-4.5	20.0
trans-1,2-Dichloroethene	Ave	0.2985	0.2825	0.1000	9.47	10.0	-5.3	20.0
n-Hexane	Ave	0.3912	0.3885		9.93	10.0	-0.7	20.0
1,1-Dichloroethane	Ave	0.5113	0.5396	0.2000	10.6	10.0	5.5	20.0
di-Isopropyl ether	Ave	0.8397	0.8944		10.7	10.0	6.5	20.0
2-Chloro-1,3-butadiene	Ave	0.4276	0.4351		10.2	10.0	1.8	20.0
Ethyl t-butyl ether	Ave	0.8020	0.7805		9.73	10.0	-2.7	20.0
2-Butanone (MEK)	Ave	4.608	5.428	0.1000	118	100	17.8	20.0
cis-1,2-Dichloroethene	Ave	0.3321	0.3165	0.1000	9.53	10.0	-4.7	20.0
2,2-Dichloropropane	Ave	0.4608	0.4464		9.69	10.0	-3.1	20.0
Propionitrile	Ave	1.219	1.465		240	200	20.2*	20.0
Methacrylonitrile	Ave	4.809	5.405		112	100	12.4	20.0
Bromochloromethane	Ave	0.1511	0.1491		9.87	10.0	-1.3	20.0
Tetrahydrofuran	Ave	1.516	1.556		51.3	50.0	2.6	20.0
Chloroform	Ave	0.5282	0.5374	0.2000	10.2	10.0	1.7	20.0
1,1,1-Trichloroethane	Ave	0.4933	0.4808	0.1000	9.75	10.0	-2.5	20.0
Cyclohexane	Ave	0.4674	0.4748	0.1000	10.2	10.0	1.6	20.0
1,1-Dichloropropene	Ave	0.3927	0.3978		10.1	10.0	1.3	20.0
Carbon tetrachloride	Ave	0.4394	0.4512	0.1000	10.3	10.0	2.7	20.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-140485-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 410-413930/3 Calibration Date: 08/29/2023 18:06

Instrument ID: 19930 Calib Start Date: 06/19/2023 18:19

GC Column: R-624SilMS 30m ID: 0.25 (mm) Calib End Date: 06/19/2023 20:25

Lab File ID: IG29X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isobutyl alcohol	Ave	0.3380	0.3695		547	500	9.3	20.0
Benzene	Ave	1.181	1.205	0.5000	10.2	10.0	2.0	20.0
1,2-Dichloroethane	Ave	0.3201	0.3583	0.1000	11.2	10.0	11.9	20.0
t-Amyl methyl ether	Ave	0.7413	0.7609		10.3	10.0	2.6	20.0
n-Heptane	Ave	0.3757	0.4169		11.1	10.0	11.0	20.0
n-Butanol	Ave	0.2596	0.3411		1150	875	31.4*	20.0
Trichloroethene	Ave	0.3285	0.3242	0.2000	9.87	10.0	-1.3	20.0
Methylcyclohexane	Ave	0.5306	0.5084	0.1000	9.58	10.0	-4.2	20.0
1,2-Dichloropropane	Ave	0.2919	0.3244	0.1000	11.1	10.0	11.1	20.0
1,4-Dioxane	Ave	0.0551	0.0723	0.0050	656	500	31.1*	20.0
Methyl methacrylate	Ave	9.478	10.42		11.0	10.0	10.0	20.0
Dibromomethane	Ave	0.1463	0.1582		10.8	10.0	8.1	20.0
Bromodichloromethane	Ave	0.3795	0.4051	0.2000	10.7	10.0	6.8	20.0
2-Nitropropane	Ave	3.099	3.316		53.5	50.0	7.0	20.0
1-Bromo-2-chloroethane	Ave	0.2977	0.3387		11.4	10.0	13.8	20.0
cis-1,3-Dichloropropene	Ave	0.4553	0.4748	0.2000	10.4	10.0	4.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	12.37	14.51	0.1000	117	100	17.3	20.0
Toluene	Ave	1.014	0.9841	0.4000	9.70	10.0	-3.0	20.0
trans-1,3-Dichloropropene	Ave	0.4787	0.5273	0.1000	11.0	10.0	10.2	20.0
Ethyl methacrylate	Ave	0.3958	0.4066		10.3	10.0	2.7	20.0
1,1,2-Trichloroethane	Ave	0.2862	0.2919	0.1000	10.2	10.0	2.0	20.0
Tetrachloroethene	Ave	0.5290	0.4948	0.2000	9.35	10.0	-6.5	20.0
1,3-Dichloropropane	Ave	0.4529	0.4920		10.9	10.0	8.6	20.0
2-Hexanone	Ave	8.750	10.53	0.1000	120	100	20.4*	20.0
Dibromochloromethane	Ave	0.3726	0.3931		10.5	10.0	5.5	20.0
1,2-Dibromoethane (EDB)	Ave	0.2700	0.2808	0.1000	10.4	10.0	4.0	20.0
1-Chlorohexane	Ave	0.5902	0.5193		8.80	10.0	-12.0	20.0
Chlorobenzene	Ave	1.186	1.165	0.5000	9.82	10.0	-1.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4228	0.4204		9.94	10.0	-0.6	20.0
Ethylbenzene	Ave	1.976	1.902	0.1000	9.62	10.0	-3.8	20.0
m&p-Xylene	Ave	0.7994	0.7678	0.1000	19.2	20.0	-4.0	20.0
o-Xylene	Ave	0.7900	0.7331	0.3000	9.28	10.0	-7.2	20.0
Styrene	Ave	1.271	1.234	0.3000	9.71	10.0	-2.9	20.0
Bromoform	Ave	0.2417	0.2553	0.1000	10.6	10.0	5.6	20.0
Isopropylbenzene	Ave	2.049	1.875	0.1000	9.15	10.0	-8.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5952	0.6199	0.3000	10.4	10.0	4.1	20.0
Bromobenzene	Ave	0.8602	0.8128		9.45	10.0	-5.5	20.0
trans-1,4-Dichloro-2-butene	Ave	4.657	4.910		105	100	5.4	20.0
1,2,3-Trichloropropane	Ave	0.1671	0.1674		10.0	10.0	0.2	20.0
N-Propylbenzene	Ave	3.807	3.779		9.93	10.0	-0.7	20.0
2-Chlorotoluene	Ave	0.8316	0.7953		9.56	10.0	-4.4	20.0



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-140485-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 410-413930/3 Calibration Date: 08/29/2023 18:06

Instrument ID: 19930 Calib Start Date: 06/19/2023 18:19

GC Column: R-624SilMS 30m ID: 0.25 (mm) Calib End Date: 06/19/2023 20:25

Lab File ID: IG29X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3,5-Trimethylbenzene	Ave	2.902	2.722		9.38	10.0	-6.2	20.0
4-Chlorotoluene	Ave	0.8520	0.8204		9.63	10.0	-3.7	20.0
tert-Butylbenzene	Ave	0.6973	0.6444		9.24	10.0	-7.6	20.0
Pentachloroethane	Ave	0.5393	0.5579		10.3	10.0	3.5	20.0
1,2,4-Trimethylbenzene	Ave	2.979	2.847		9.56	10.0	-4.4	20.0
sec-Butylbenzene	Ave	3.691	3.474		9.41	10.0	-5.9	20.0
1,3-Dichlorobenzene	Ave	1.681	1.602	0.6000	9.53	10.0	-4.7	20.0
p-Isopropyltoluene	Ave	3.291	3.081		9.36	10.0	-6.4	20.0
1,4-Dichlorobenzene	Ave	1.657	1.558	0.5000	9.40	10.0	-6.0	20.0
1,2,3-Trimethylbenzene	Ave	1.347	1.253		9.30	10.0	-7.0	20.0
Benzyl chloride	Ave	0.2558	0.2657		10.4	10.0	3.9	20.0
n-Butylbenzene	Ave	1.473	1.510		10.3	10.0	2.5	20.0
1,2-Dichlorobenzene	Ave	1.579	1.451	0.4000	9.19	10.0	-8.1	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0973	0.0820	0.0500	8.43	10.0	-15.7	20.0
1,3,5-Trichlorobenzene	Ave	1.261	1.098		8.71	10.0	-12.9	20.0
1,2,4-Trichlorobenzene	Ave	1.014	0.7533	0.2000	7.43	10.0	-25.7*	20.0
Hexachlorobutadiene	Ave	0.4941	0.4528		9.16	10.0	-8.4	20.0
Naphthalene	Ave	1.846	1.099		5.95	10.0	-40.5*	20.0
1,2,3-Trichlorobenzene	Ave	0.8491	0.5058		5.96	10.0	-40.4*	20.0
Dibromofluoromethane (Surr)	Ave	0.2569	0.2608		10.2	10.0	1.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0509	0.0519		10.2	10.0	2.0	20.0
Toluene-d8 (Surr)	Ave	1.286	1.306		10.2	10.0	1.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4844	0.4937		10.2	10.0	1.9	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X02.D  
 Lims ID: CCVIS VSTD10  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 29-Aug-2023 18:06:30 ALS Bottle#: 2 Worklist Smp#: 3  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-003  
 Misc. Info.: CCVIS  
 Operator ID: gaw91131 Instrument ID: 19930  
 Sublist: chrom-8260 25ml HP31\*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 29-Aug-2023 19:32:44 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D

Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1605

First Level Reviewer: JS6E

Date: 29-Aug-2023 18:45:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.849	1.849	0.000	99	537661	10.0	8.59	
4 Chloromethane	50	2.044	2.044	0.000	99	617876	10.0	9.71	
5 Vinyl chloride	62	2.148	2.148	0.000	98	556934	10.0	9.15	
6 Butadiene	39	2.166	2.166	0.000	94	714402	10.0	11.2	
7 Bromomethane	94	2.471	2.471	0.000	91	396260	10.0	8.34	
8 Chloroethane	64	2.544	2.544	0.000	100	324221	10.0	8.90	
9 Dichlorofluoromethane	67	2.776	2.776	0.000	97	914050	10.0	8.99	
10 Trichlorofluoromethane	101	2.830	2.830	0.000	98	741904	10.0	9.57	
11 Ethyl ether	59	3.050	3.050	0.000	92	356425	10.0	11.1	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.141	3.141	0.000	95	535975	10.0	9.70	
14 Acrolein	56	3.208	3.208	0.000	99	1081946	500.0	213.6	
15 1,1-Dichloroethene	96	3.342	3.342	0.000	98	396792	10.0	9.46	
16 Acetone	43	3.367	3.367	0.000	100	632126	100.0	113.0	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.385	3.385	0.000	92	425006	10.0	9.55	
18 Iodomethane	142	3.525	3.525	0.000	100	790396	10.0	8.96	
19 Ethyl bromide	108	3.556	3.556	0.000	98	345532	10.0	9.41	
20 Carbon disulfide	76	3.635	3.635	0.000	99	1187955	10.0	10.4	
23 Methyl acetate	43	3.763	3.763	0.000	98	168105	10.0	12.2	M
24 3-Chloro-1-propene	41	3.787	3.787	0.000	92	676711	10.0	10.4	
25 Methylene Chloride	84	3.964	3.964	0.000	93	451046	10.0	10.2	
* 26 t-Butyl alcohol-d10 (IS)	65	3.964	3.964	0.000	100	116996	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.092	4.092	0.000	98	398316	200.0	178.9	
28 Acrylonitrile	53	4.281	4.281	0.000	99	226375	25.0	33.3	
29 Methyl tert-butyl ether	73	4.348	4.348	0.000	96	1099406	10.0	9.55	
30 trans-1,2-Dichloroethene	96	4.361	4.361	0.000	99	441849	10.0	9.47	
31 Hexane	57	4.787	4.787	0.000	95	607588	10.0	9.93	
32 1,1-Dichloroethane	63	5.019	5.019	0.000	96	843914	10.0	10.6	
35 Isopropyl ether	45	5.086	5.086	0.000	94	1398764	10.0	10.7	
36 2-Chloro-1,3-butadiene	53	5.135	5.135	0.000	91	680394	10.0	10.2	
37 Tert-butyl ethyl ether	59	5.629	5.629	0.000	96	1220561	10.0	9.73	

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	5.824	5.824	0.000	100	1270174	100.0	117.8	
39 cis-1,2-Dichloroethene	96	5.860	5.860	0.000	83	495022	10.0	9.53	
40 2,2-Dichloropropane	77	5.879	5.879	0.000	88	698065	10.0	9.69	
43 Propionitrile	54	5.903	5.903	0.000	99	685734	200.0	240.5	
45 Methacrylonitrile	67	6.122	6.122	0.000	92	1264743	100.0	112.4	
46 Chlorobromomethane	128	6.196	6.196	0.000	93	233183	10.0	9.87	
47 Tetrahydrofuran	71	6.202	6.202	0.000	76	182065	50.0	51.3	
48 Chloroform	83	6.342	6.342	0.000	93	840402	10.0	10.2	
\$ 49 Dibromofluoromethane (Surr)	113	6.561	6.561	0.000	94	407916	10.0	10.2	
50 1,1,1-Trichloroethane	97	6.567	6.567	0.000	98	751881	10.0	9.75	
51 Cyclohexane	56	6.671	6.671	0.000	91	742546	10.0	10.2	
54 Carbon tetrachloride	117	6.787	6.787	0.000	95	705662	10.0	10.3	
53 1,1-Dichloropropene	75	6.787	6.787	0.000	95	622034	10.0	10.1	
55 Isobutyl alcohol	41	6.945	6.945	0.000	92	432290	500.0	546.7	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.012	7.012	0.000	97	81222	10.0	10.2	
57 Benzene	78	7.049	7.049	0.000	96	1883873	10.0	10.2	
58 1,2-Dichloroethane	62	7.116	7.116	0.000	98	560347	10.0	11.2	
60 Tert-amyl methyl ether	73	7.244	7.244	0.000	98	1189987	10.0	10.3	
* 61 Fluorobenzene (IS)	96	7.451	7.451	0.000	97	1563852	10.0	10.0	
62 n-Heptane	43	7.470	7.470	0.000	94	652041	10.0	11.1	
63 n-Butanol	56	7.835	7.835	0.000	90	698405	875.0	1149.8	
64 Trichloroethene	95	7.933	7.933	0.000	97	507003	10.0	9.87	
65 Methylcyclohexane	83	8.244	8.244	0.000	92	795132	10.0	9.58	
66 1,2-Dichloropropane	63	8.262	8.262	0.000	87	507275	10.0	11.1	
67 Methyl methacrylate	69	8.360	8.360	0.000	92	243889	10.0	11.0	
68 1,4-Dioxane	88	8.360	8.360	0.000	36	84571	500.0	655.5	
69 Dibromomethane	93	8.378	8.378	0.000	93	247384	10.0	10.8	
71 Dichlorobromomethane	83	8.616	8.616	0.000	99	633571	10.0	10.7	
72 2-Nitropropane	41	8.878	8.878	0.000	99	388005	50.0	53.5	
75 1-Bromo-2-chloroethane	63	9.006	9.006	0.000	99	529627	10.0	11.4	
76 cis-1,3-Dichloropropene	75	9.177	9.177	0.000	96	742574	10.0	10.4	
77 4-Methyl-2-pentanone (MIBK)	43	9.353	9.353	0.000	97	3395127	100.0	117.3	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.494	0.000	94	1622062	10.0	10.2	
79 Toluene	92	9.567	9.567	0.000	98	1222647	10.0	9.70	
97 trans-1,3-Dichloropropene	75	9.841	9.841	0.000	93	655171	10.0	11.0	
99 Ethyl methacrylate	69	9.908	9.908	0.000	89	505144	10.0	10.3	
100 1,1,2-Trichloroethane	97	10.048	10.048	0.000	91	362639	10.0	10.2	
101 Tetrachloroethene	166	10.134	10.134	0.000	98	614742	10.0	9.35	
102 1,3-Dichloropropane	76	10.213	10.213	0.000	91	611327	10.0	10.9	
103 2-Hexanone	43	10.262	10.262	0.000	97	2464752	100.0	120.4	
105 Chlorodibromomethane	129	10.433	10.433	0.000	90	488373	10.0	10.5	
106 Ethylene Dibromide	107	10.542	10.542	0.000	98	348814	10.0	10.4	
* 107 Chlorobenzene-d5 (IS)	117	10.981	10.981	0.000	87	1242413	10.0	10.0	
108 1-Chlorohexane	91	10.993	10.993	0.000	98	645234	10.0	8.80	
109 Chlorobenzene	112	11.006	11.006	0.000	95	1447092	10.0	9.82	
111 1,1,1,2-Tetrachloroethane	131	11.091	11.091	0.000	96	522279	10.0	9.94	
112 Ethylbenzene	91	11.091	11.091	0.000	98	2362757	10.0	9.62	
113 m-Xylene & p-Xylene	106	11.213	11.213	0.000	93	1907744	20.0	19.2	
114 o-Xylene	106	11.542	11.542	0.000	96	910872	10.0	9.28	
115 Styrene	104	11.560	11.560	0.000	95	1533131	10.0	9.71	
116 Bromoform	173	11.719	11.719	0.000	98	317237	10.0	10.6	
117 Isopropylbenzene	105	11.847	11.847	0.000	96	2329360	10.0	9.15	

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	11.987	11.987	0.000	94	613375	10.0	10.2	
121 1,1,2,2-Tetrachloroethane	83	12.091	12.091	0.000	93	471366	10.0	10.4	
122 Bromobenzene	156	12.103	12.103	0.000	96	618060	10.0	9.45	
123 trans-1,4-Dichloro-2-butene	53	12.115	12.115	0.000	94	1148989	100.0	105.4	
124 1,2,3-Trichloropropane	110	12.140	12.140	0.000	82	127280	10.0	10.0	
125 N-Propylbenzene	91	12.176	12.176	0.000	99	2873657	10.0	9.93	
126 2-Chlorotoluene	126	12.249	12.249	0.000	97	604711	10.0	9.56	
127 1,3,5-Trimethylbenzene	105	12.310	12.310	0.000	94	2069590	10.0	9.38	
128 4-Chlorotoluene	126	12.347	12.347	0.000	97	623853	10.0	9.63	
129 tert-Butylbenzene	134	12.554	12.554	0.000	93	489966	10.0	9.24	
130 Pentachloroethane	167	12.585	12.585	0.000	94	424209	10.0	10.3	
131 1,2,4-Trimethylbenzene	105	12.597	12.597	0.000	97	2165187	10.0	9.56	
132 sec-Butylbenzene	105	12.719	12.719	0.000	94	2641789	10.0	9.41	
133 1,3-Dichlorobenzene	146	12.816	12.816	0.000	99	1218394	10.0	9.53	
134 4-Isopropyltoluene	119	12.828	12.828	0.000	97	2342674	10.0	9.36	
* 135 1,4-Dichlorobenzene-d4	152	12.871	12.871	0.000	94	760385	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.889	12.889	0.000	94	1184453	10.0	9.40	
137 1,2,3-Trimethylbenzene	120	12.902	12.902	0.000	98	952548	10.0	9.30	
138 Benzyl chloride	126	12.969	12.969	0.000	98	202046	10.0	10.4	
139 n-Butylbenzene	92	13.121	13.121	0.000	98	1148417	10.0	10.3	
140 1,2-Dichlorobenzene	146	13.152	13.152	0.000	99	1103412	10.0	9.19	
142 1,2-Dibromo-3-Chloropropane	155	13.694	13.694	0.000	88	62348	10.0	8.43	
143 1,3,5-Trichlorobenzene	180	13.822	13.822	0.000	98	835050	10.0	8.71	
144 1,2,4-Trichlorobenzene	180	14.243	14.243	0.000	94	572817	10.0	7.43	
145 Hexachlorobutadiene	225	14.322	14.322	0.000	97	344318	10.0	9.16	
146 Naphthalene	128	14.420	14.420	0.000	97	835527	10.0	5.95	
147 1,2,3-Trichlorobenzene	180	14.560	14.560	0.000	95	384620	10.0	5.96	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
165 Isopropyl alcohol	45		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_00091	Amount Added: 20.00	Units: uL	
MSV_LL_#2_826_00101	Amount Added: 20.00	Units: uL	
MSV_LL_GAS826_00167	Amount Added: 20.00	Units: uL	
MSV_LLcentISS_00009	Amount Added: 5.00	Units: uL	Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X02.D

Injection Date: 29-Aug-2023 18:06:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: CCVIS VSTD10

Worklist Smp#: 3

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

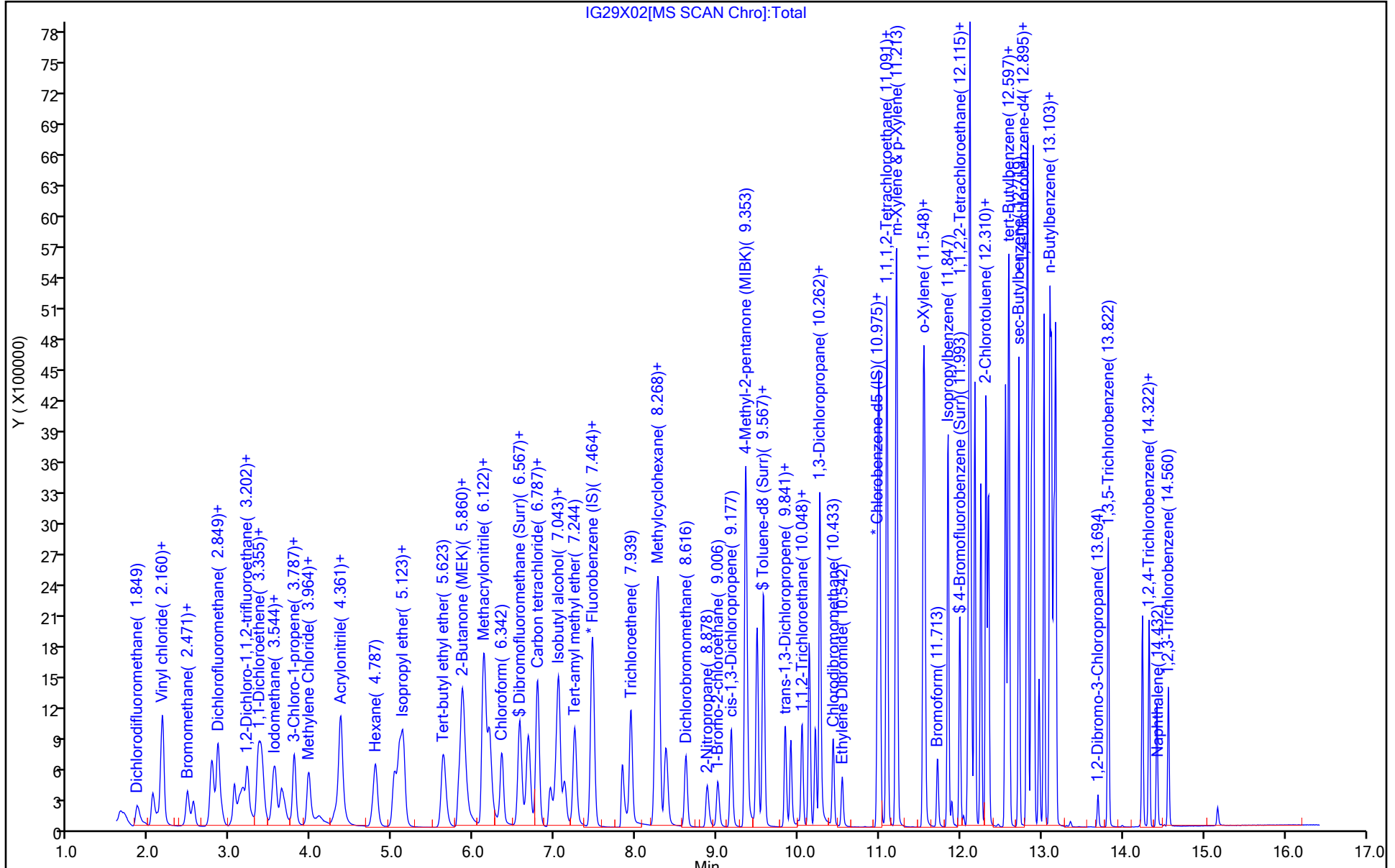
ALS Bottle#: 2

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

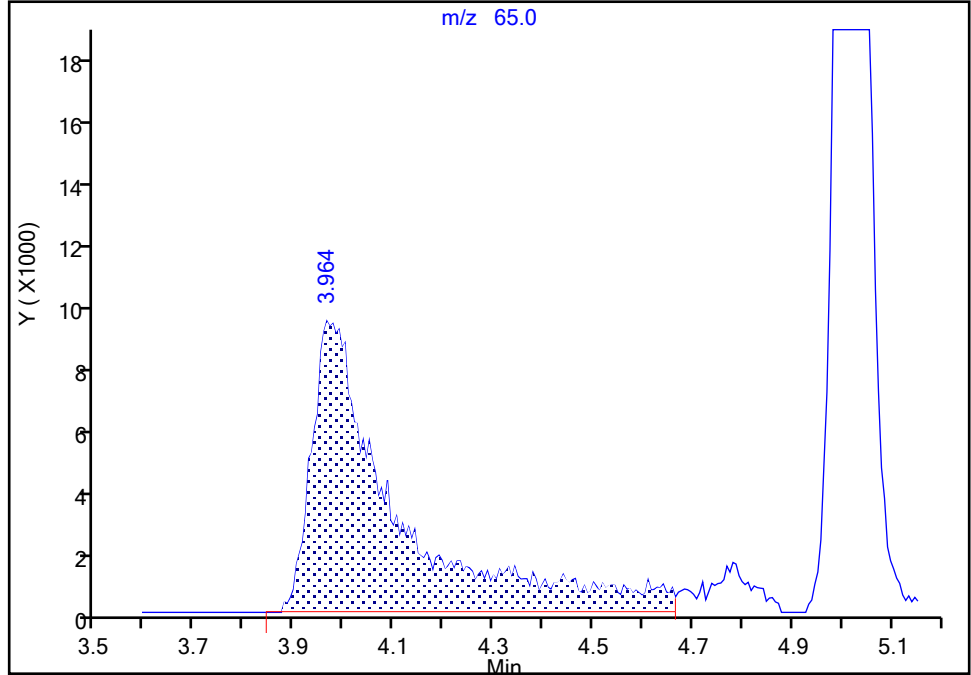
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Injection Date: 29-Aug-2023 18:06:30 Instrument ID: 19930  
Lims ID: CCVIS VSTD10  
Client ID:  
Operator ID: gaw91131 ALS Bottle#: 2 Worklist Smp#: 3  
Purge Vol: 25.000 mL Dil. Factor: 1.0000  
Method: 8260 25ml HP31 Limit Group: MSV - 8260C\_D  
Column: Rxi-624Sil MS Capillary Column ( 0.25mm ID) Detector: MS Quad

\* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

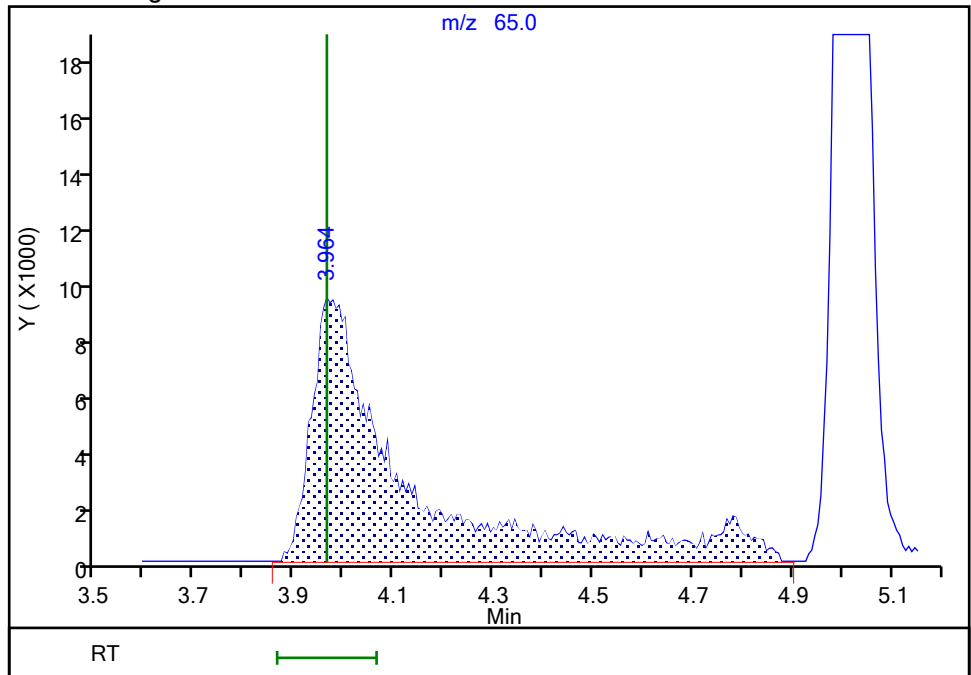
RT: 3.96  
Area: 107156  
Amount: 50.000000  
Amount Units: ug/l

Processing Integration Results



RT: 3.96  
Area: 116996  
Amount: 50.000000  
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 29-Aug-2023 18:30:37 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

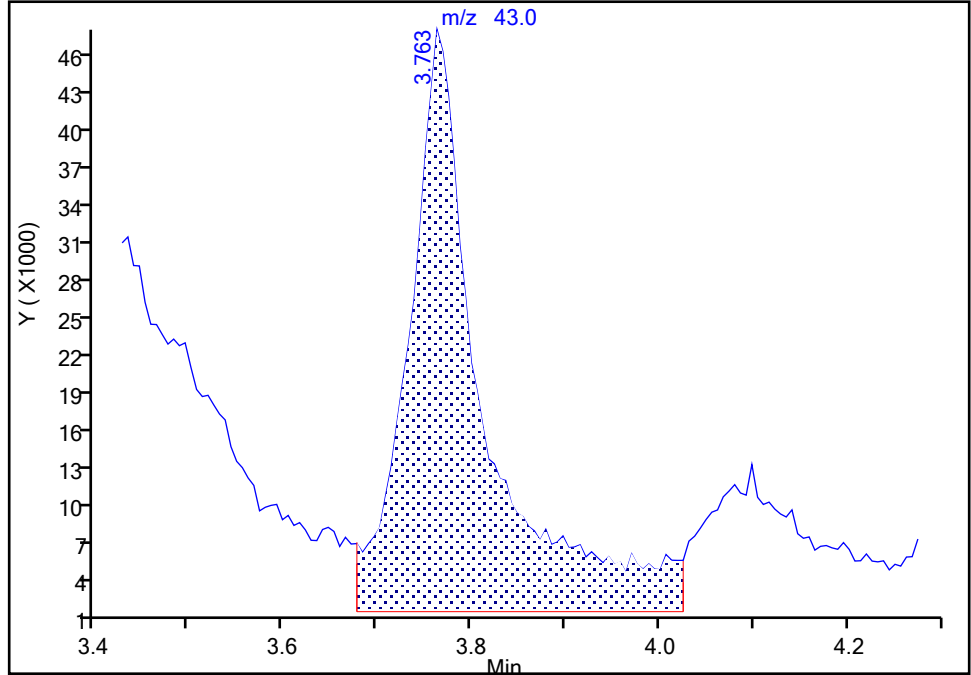
Data File:	\\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X02.D		
Injection Date:	29-Aug-2023 18:06:30	Instrument ID:	19930
Lims ID:	CCVIS VSTD10		
Client ID:			
Operator ID:	gaw91131	ALS Bottle#:	2
Purge Vol:	25.000 mL	Dil. Factor:	1.0000
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D
Column:	Rxi-624Sil MS Capillary Column (0.25mm ID)	Detector:	MS Quad
		Worklist Smp#:	3

23 Methyl acetate, CAS: 79-20-9

Signal: 1

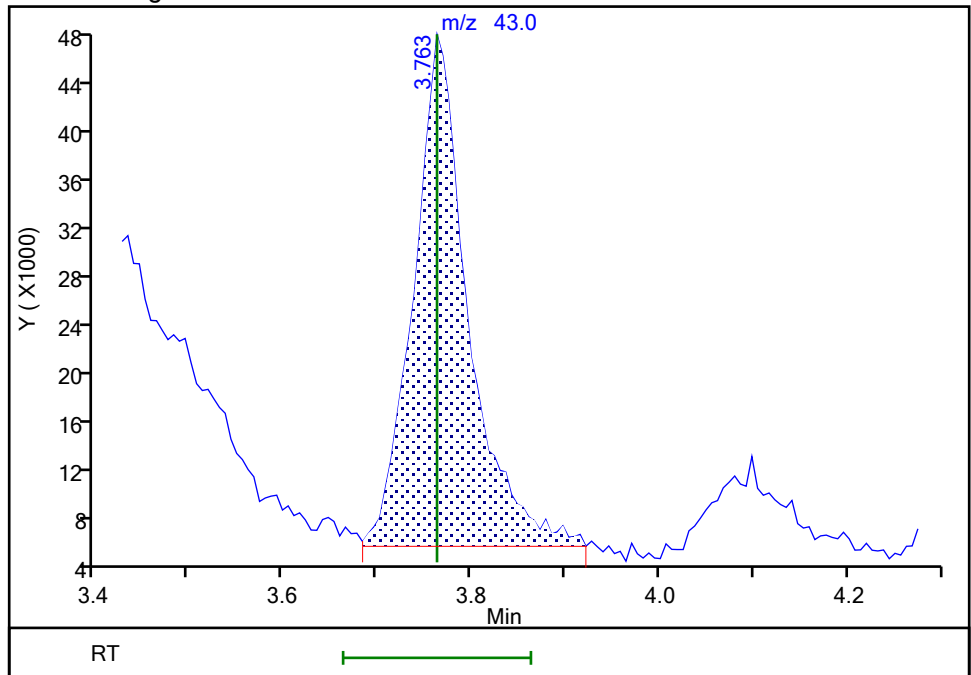
RT: 3.76  
 Area: 258917  
 Amount: 20.470050  
 Amount Units: ug/l

Processing Integration Results



RT: 3.76  
 Area: 168105  
 Amount: 12.172631  
 Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 29-Aug-2023 18:30:25 -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\20230619-86929.b\IU19T01.D  
 Lims ID: BFB  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 19-Jun-2023 14:12:30      ALS Bottle#: 1      Worklist Smp#: 1  
 Injection Vol: 1.0 uL      Dil. Factor: 1.0000  
 Sample Info: 410-0086929-001  
 Misc. Info.: BFB  
 Operator ID: KNK41612      Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 27-Jun-2023 12:31:25      Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE      ID Type: Deconvolution ID  
 Quant Method: Internal Standard      Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm)      Det: MS Quad  
 Process Host: CTX1687

First Level Reviewer: DVW2      Date: 19-Jun-2023 15:39:15

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	5.032	5.032	0.000	0	220427	NR	NR	
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**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

**Reagents:**

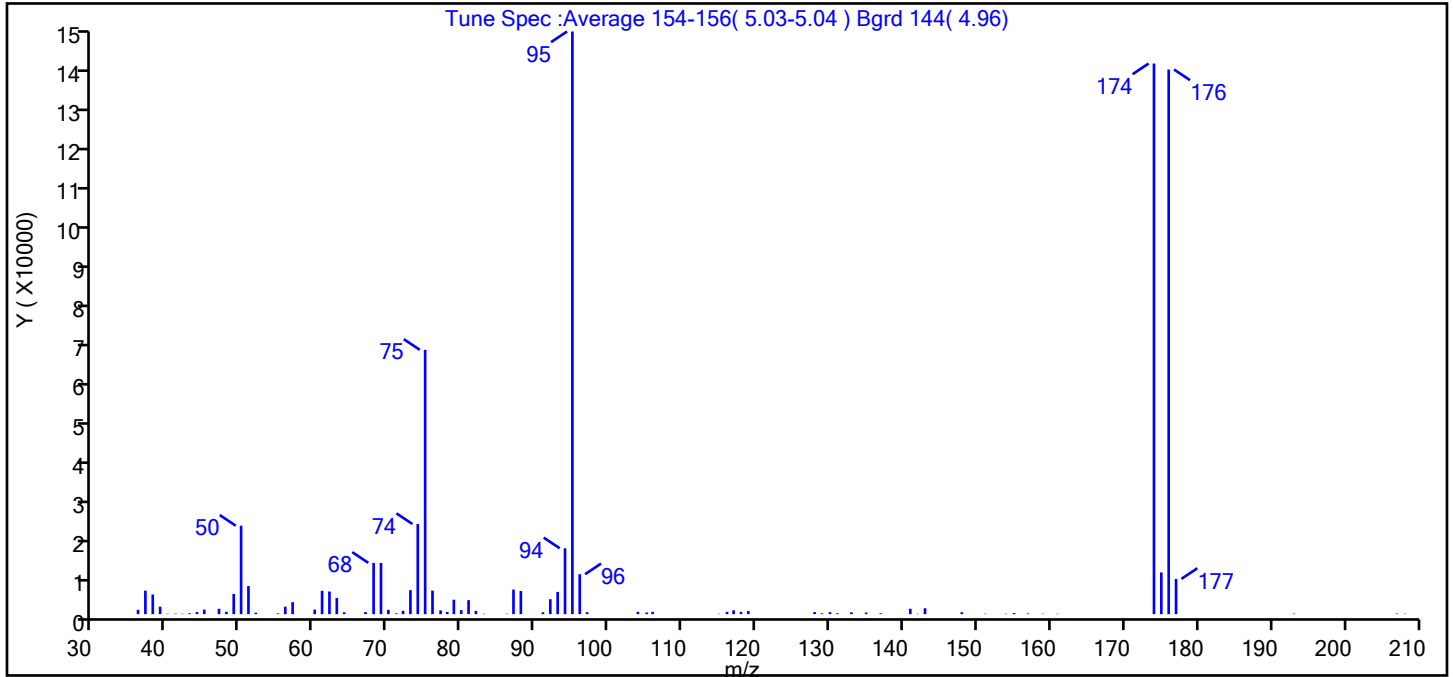
MSV\_V\_BFB\_00012      Amount Added: 1.00      Units: uL



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19T01.D  
 Injection Date: 19-Jun-2023 14:12:30 Instrument ID: 19930  
 Lims ID: BFB  
 Client ID:  
 Operator ID: KNK41612 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	15.2
75	30 to 60% of m/z 95	45.4
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	94.5
175	5 to 9% of m/z 174	7.2 (7.6)
176	Greater than 95% but less than 101% of m/z 174	93.5 (98.9)
177	5 to 9% of m/z 176	6.1 (6.5)

Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19T01.D\8260 25ml HP31.rslt\spectra.d  
Injection Date: 19-Jun-2023 14:12:30  
Spectrum: Tune Spec :Average 154-156( 5.03-5.04 ) Bgrd 144( 4.96)  
Base Peak: 95.00  
Minimum % Base Peak: 0  
Number of Points: 83

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1075	62.00	5564	87.00	6046	133.00	446
37.00	5773	63.00	3978	88.00	5692	135.00	402
38.00	4835	64.00	462	91.00	457	137.00	203
39.00	1835	67.00	503	92.00	3671	141.00	1325
40.00	99	68.00	12615	93.00	5464	142.00	90
41.00	126	69.00	12585	94.00	16190	143.00	1453
42.00	98	70.00	1063	95.00	143232	148.00	471
43.00	217	71.00	188	96.00	9818	151.00	93
44.00	513	72.00	826	97.00	481	154.00	99
45.00	1125	73.00	5902	104.00	577	155.00	280
47.00	1319	74.00	22152	105.00	405	157.00	164
48.00	566	75.00	64968	106.00	555	159.00	100
49.00	4961	76.00	5785	115.00	87	161.00	90
50.00	21736	77.00	932	116.00	551	174.00	135360
51.00	6908	78.00	545	117.00	944	175.00	10258
52.00	358	79.00	3542	118.00	572	176.00	133888
55.00	193	80.00	985	119.00	750	177.00	8666
56.00	1838	81.00	3444	128.00	520	193.00	132
57.00	2949	82.00	806	129.00	205	207.00	149
60.00	1129	83.00	96	130.00	486	208.00	96
61.00	5738	86.00	103	131.00	217		

Data File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19T01.D

Injection Date: 19-Jun-2023 14:12:30

Instrument ID: 19930

Operator ID: KNK41612

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

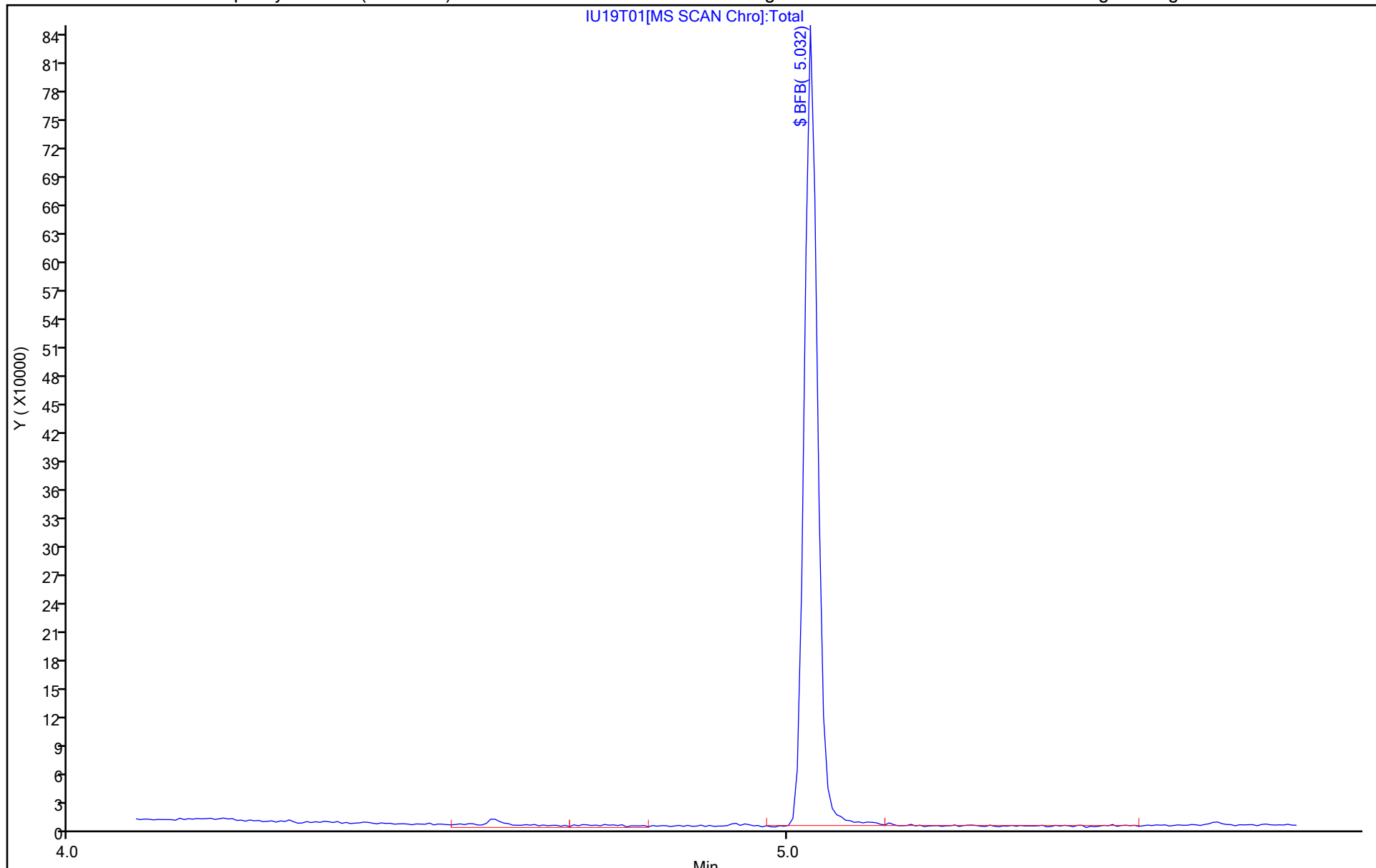
ALS Bottle#: 1

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\20230829-92765.b\IG29T01.D  
 Lims ID: BFB  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 29-Aug-2023 17:32:30 ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 1.0 uL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-001  
 Misc. Info.: BFB  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 29-Aug-2023 19:33:13 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1605

First Level Reviewer: JS6E Date: 29-Aug-2023 18:26:36

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	5.026	5.026	0.000	0	129569	NR	NR	
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**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

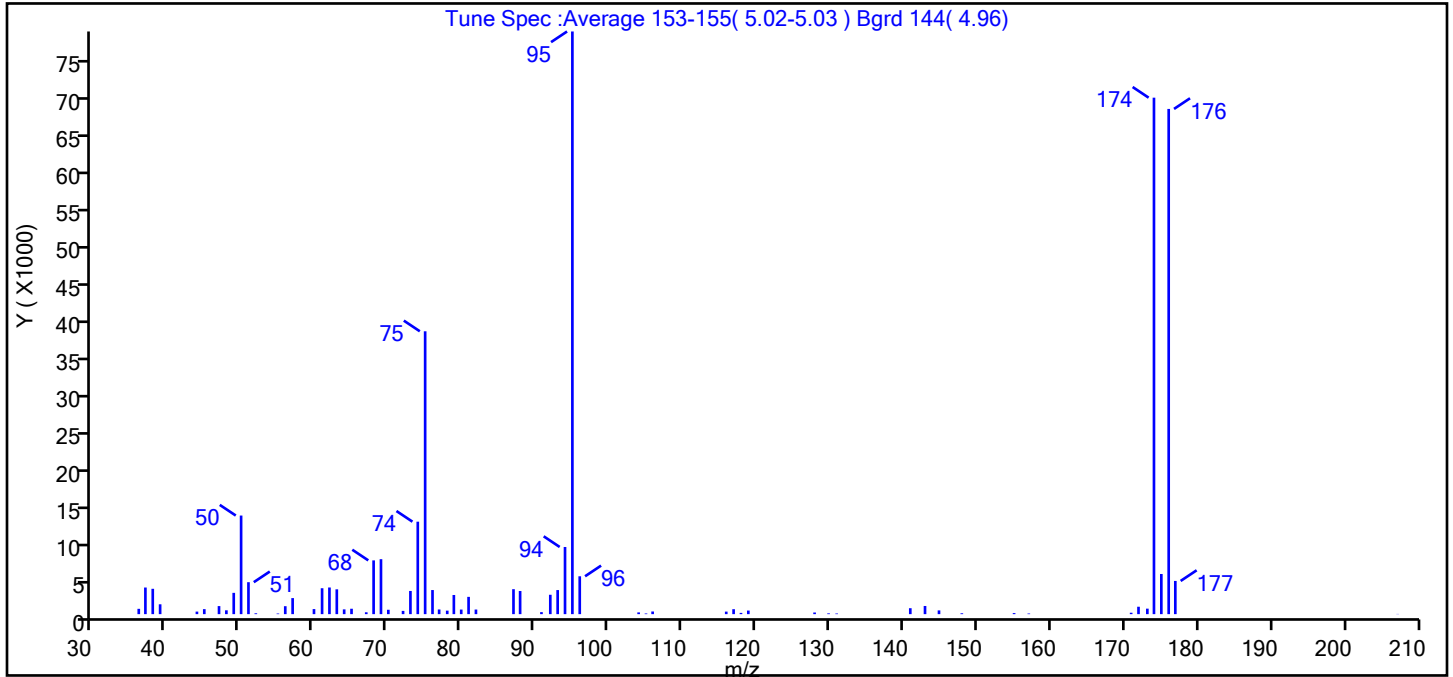
**Reagents:**

MSV\_V\_BFB\_00012 Amount Added: 1.00 Units: uL

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29T01.D  
 Injection Date: 29-Aug-2023 17:32:30 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	16.9
75	30 to 60% of m/z 95	48.5
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.9 (1.1)
174	50 to 120% of m/z 95	88.6
175	5 to 9% of m/z 174	6.9 (7.8)
176	Greater than 95% but less than 101% of m/z 174	86.7 (97.8)
177	5 to 9% of m/z 176	5.7 (6.6)

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29T01.D\8260 25ml HP31.rsl\spectra.d  
Injection Date: 29-Aug-2023 17:32:30  
Spectrum: Tune Spec :Average 153-155( 5.02-5.03 ) Bgrd 144( 4.96)  
Base Peak: 95.00  
Minimum % Base Peak: 0  
Number of Points: 68

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	718	62.00	3599	81.00	2333	128.00	221
37.00	3594	63.00	3350	82.00	623	130.00	106
38.00	3421	64.00	645	87.00	3370	131.00	86
39.00	1331	65.00	729	88.00	3122	141.00	801
44.00	344	67.00	252	91.00	271	143.00	1102
45.00	675	68.00	7257	92.00	2615	145.00	505
47.00	1087	69.00	7419	93.00	3250	148.00	117
48.00	517	70.00	592	94.00	9066	155.00	142
49.00	2875	72.00	438	95.00	78656	157.00	85
50.00	13310	73.00	3129	96.00	5112	171.00	191
51.00	4313	74.00	12481	104.00	236	172.00	1000
52.00	116	75.00	38184	105.00	91	173.00	741
55.00	85	76.00	3253	106.00	359	174.00	69720
56.00	1073	77.00	630	116.00	343	175.00	5420
57.00	2166	78.00	472	117.00	667	176.00	68200
60.00	684	79.00	2586	118.00	170	177.00	4482
61.00	3498	80.00	619	119.00	483	207.00	28

Report Date: 29-Aug-2023 19:33:13

Chrom Revision: 2.3 21-Aug-2023 17:14:06

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29T01.D

Injection Date: 29-Aug-2023 17:32:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

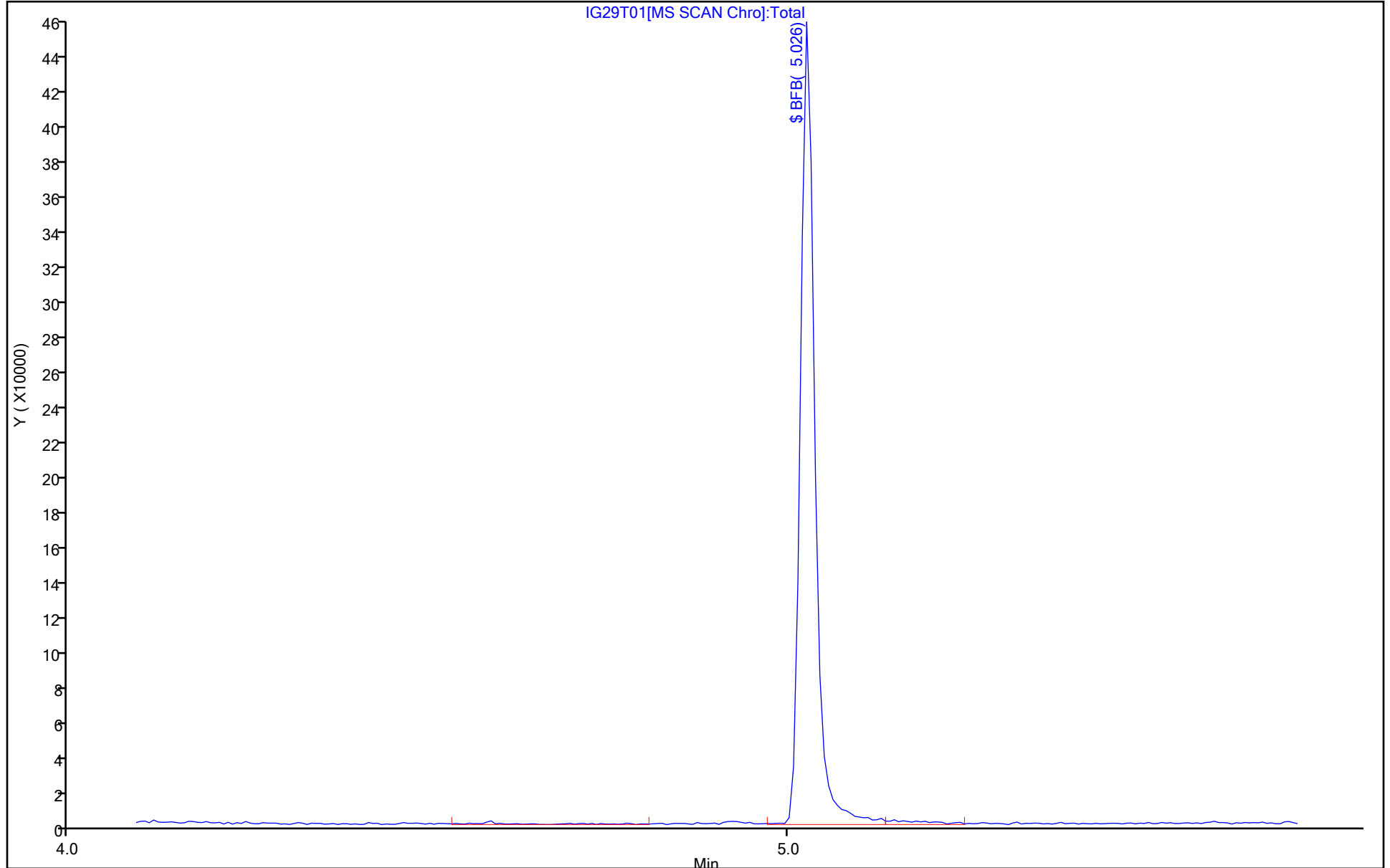
ALS Bottle#: 1

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



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories  
Environment Testing, LLC

Job No.: 410-140485-1

SDG No.:

Client Sample ID:

Lab Sample ID: MB 410-413930/6

Matrix: Water

Lab File ID: IG29X05.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 19:09

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.: 413930

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	1.05	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.20
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.: 410-140485-1  
 Environment Testing, LLC

SDG No.:

Client Sample ID:      Lab Sample ID: MB 410-413930/6

Matrix: Water      Lab File ID: IG29X05.D

Analysis Method: 8260D      Date Collected:

Sample wt/vol: 25 (mL)      Date Analyzed: 08/29/2023 19:09

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.: 413930      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)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC  
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X05.D  
 Lims ID: MB  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 29-Aug-2023 19:09:30 ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-006  
 Misc. Info.: MB  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 15:18:30 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: JS6E Date: 29-Aug-2023 19:32:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.849					ND	
2 Chlorodifluoromethane	51		1.867					ND	
3 Dimethyl ether	45		1.922					ND	
4 Chloromethane	50		2.044					ND	
5 Vinyl chloride	62		2.148					ND	
6 Butadiene	39		2.166					ND	7
7 Bromomethane	94		2.471					ND	
8 Chloroethane	64		2.544					ND	
9 Dichlorofluoromethane	67		2.776					ND	
10 Trichlorofluoromethane	101		2.830					ND	
11 Ethyl ether	59		3.050					ND	
13 1,2-Dichloro-1,1,2-trifluoroethane	67		3.141					ND	
14 Acrolein	56		3.208					ND	
15 1,1-Dichloroethene	96		3.342					ND	
16 Acetone	43	3.397	3.367	0.030	13	5790		1.05	
17 1,1,2-Trichloro-1,2,2-trifluoroethane	101		3.385					ND	
18 Iodomethane	142		3.525					ND	
19 Ethyl bromide	108		3.556					ND	
20 Carbon disulfide	76		3.635					ND	7
23 Methyl acetate	43		3.763					ND	
24 3-Chloro-1-propene	41		3.787					ND	
21 Acetonitrile	41		3.788					ND	
25 Methylene Chloride	84		3.964					ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.989	3.964	0.025	22	115366	50.0	50.0	
27 2-Methyl-2-propanol	59		4.092					ND	
28 Acrylonitrile	53		4.281					ND	
29 Methyl tert-butyl ether	73		4.348					ND	
30 trans-1,2-Dichloroethene	96		4.361					ND	
31 Hexane	57		4.787					ND	
33 Vinyl acetate	43		4.989					ND	
32 1,1-Dichloroethane	63		5.019					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		5.086					ND	
36 2-Chloro-1,3-butadiene	53		5.135					ND	
37 Tert-butyl ethyl ether	59		5.629					ND	
38 2-Butanone (MEK)	43		5.824					ND	7
39 cis-1,2-Dichloroethene	96		5.860					ND	
40 2,2-Dichloropropane	77		5.879					ND	7
42 Ethyl acetate	43		5.891					ND	
43 Propionitrile	54		5.903					ND	
45 Methacrylonitrile	67		6.122					ND	
S 41 1,2-Dichloroethene, Total	100		6.155					ND	7
46 Chlorobromomethane	128		6.196					ND	
47 Tetrahydrofuran	71		6.202					ND	
44 Methyl acrylate	55		6.220					ND	
48 Chloroform	83		6.342					ND	
\$ 49 Dibromofluoromethane (Surr)	113	6.568	6.561	0.007	94	477376	10.0	10.5	
50 1,1,1-Trichloroethane	97		6.567					ND	
51 Cyclohexane	56		6.671					ND	
54 Carbon tetrachloride	117		6.787					ND	
53 1,1-Dichloropropene	75		6.787					ND	
55 Isobutyl alcohol	41		6.945					ND	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.025	7.012	0.013	63	94994	10.0	10.6	
52 1-Chlorobutane	56		7.019					ND	
57 Benzene	78		7.049					ND	
58 1,2-Dichloroethane	62		7.116					ND	
59 Isopropyl acetate	43		7.128					ND	
60 Tert-amyl methyl ether	73		7.244					ND	
* 61 Fluorobenzene (IS)	96	7.458	7.451	0.007	99	1767248	10.0	10.0	
62 n-Heptane	43		7.470					ND	U
63 n-Butanol	56		7.835					ND	
64 Trichloroethene	95		7.933					ND	
65 Methylcyclohexane	83		8.244					ND	7
66 1,2-Dichloropropane	63		8.262					ND	
67 Methyl methacrylate	69		8.360					ND	
68 1,4-Dioxane	88		8.360					ND	
69 Dibromomethane	93		8.378					ND	
70 n-Propyl acetate	43		8.445					ND	
71 Dichlorobromomethane	83		8.616					ND	
72 2-Nitropropane	41		8.878					ND	
75 1-Bromo-2-chloroethane	63		9.006					ND	
73 2-Chloroethyl vinyl ether	63		9.006					ND	
76 cis-1,3-Dichloropropene	75		9.177					ND	
74 Chloroacetonitrile	75		9.226					ND	
77 4-Methyl-2-pentanone (MIBK)	43		9.353					ND	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.494	0.000	94	1784315	10.0	9.82	
79 Toluene	92		9.567					ND	
97 trans-1,3-Dichloropropene	75		9.841					ND	
99 Ethyl methacrylate	69		9.908					ND	
100 1,1,2-Trichloroethane	97		10.048					ND	
S 98 1,3-Dichloropropene, Total	100		10.060					ND	7
101 Tetrachloroethene	166		10.134					ND	
102 1,3-Dichloropropane	76		10.213					ND	
103 2-Hexanone	43		10.262					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		10.408					ND	
105 Chlorodibromomethane	129		10.433					ND	
106 Ethylene Dibromide	107		10.542					ND	
* 107 Chlorobenzene-d5 (IS)	117	10.981	10.981	0.000	85	1413465	10.0	10.0	
108 1-Chlorohexane	91		10.993					ND	7
109 Chlorobenzene	112		11.006					ND	
111 1,1,1,2-Tetrachloroethane	131		11.091					ND	
112 Ethylbenzene	91		11.091					ND	
113 m-Xylene & p-Xylene	106		11.213					ND	
S 110 Xylenes, Total	106		11.245					ND	7
114 o-Xylene	106		11.542					ND	
115 Styrene	104		11.560					ND	
116 Bromoform	173		11.719					ND	
117 Isopropylbenzene	105		11.847					ND	
118 cis-1,4-Dichloro-2-butene	88		11.902					ND	U
119 Cyclohexanone	55		11.938					ND	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.993	11.987	0.006	94	641055	10.0	9.36	
121 1,1,2,2-Tetrachloroethane	83		12.091					ND	
122 Bromobenzene	156		12.103					ND	
123 trans-1,4-Dichloro-2-butene	53		12.115					ND	
124 1,2,3-Trichloropropane	110		12.140					ND	
125 N-Propylbenzene	91		12.176					ND	
126 2-Chlorotoluene	126		12.249					ND	
127 1,3,5-Trimethylbenzene	105		12.310					ND	
128 4-Chlorotoluene	126		12.347					ND	
129 tert-Butylbenzene	134		12.554					ND	
130 Pentachloroethane	167		12.585					ND	
131 1,2,4-Trimethylbenzene	105		12.597					ND	
132 sec-Butylbenzene	105		12.719					ND	7
133 1,3-Dichlorobenzene	146		12.816					ND	
134 4-Isopropyltoluene	119		12.828					ND	7
* 135 1,4-Dichlorobenzene-d4	152	12.877	12.871	0.006	94	788883	10.0	10.0	
136 1,4-Dichlorobenzene	146		12.889					ND	7
137 1,2,3-Trimethylbenzene	120		12.902					ND	7
138 Benzyl chloride	126		12.969					ND	
139 n-Butylbenzene	92		13.121					ND	7
140 1,2-Dichlorobenzene	146		13.152					ND	
141 Hexachloroethane	117		13.542					ND	
142 1,2-Dibromo-3-Chloropropane	155		13.694					ND	
143 1,3,5-Trichlorobenzene	180		13.822					ND	7
144 1,2,4-Trichlorobenzene	180		14.243					ND	7
145 Hexachlorobutadiene	225	14.328	14.322	0.006	89	2195		0.0563	
146 Naphthalene	128		14.420					ND	7
147 1,2,3-Trichlorobenzene	180	14.578	14.560	0.018	94	3726		0.0556	
148 Dodecane	57		0.000					ND	
151 1,1-Dichloroacetone	1		0.000					ND	
152 n-Decane	57		0.000					ND	
153 1-Bromo-3-Chloropropane	1		0.000					ND	
154 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
155 2-Methylnaphthalene	142		0.000					ND	
156 p-Diethylbenzene	1		0.000					ND	
157 t-Amyl alcohol	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
158 Methylal	1		0.000					ND	
159 tert-Butyl Formate	1		0.000					ND	
160 2-Bromo-1-chloropropane	1		0.000					ND	
223 1,1,2-Trifluoroethane TIC	1		0.000					ND	
161 Pentane	43		0.000					ND	
149 2-Chloro-1,1,1-Trifluoroethane	1		0.000					ND	
150 2-ethoxy-2-methyl butane	1		0.000					ND	
165 Isopropyl alcohol	45		0.000					ND	
217 Freon 115 TIC	1		0.000					ND	
216 Ethyl ether TIC	1		0.000					ND	
215 1-Chloro-1,1-difluoroethane TIC	1		0.000					ND	
214 Dichloro-1,1,2,2-tetrafluoroethane TIC	1		0.000					ND	
213 Chlorofluoromethane TIC	1		0.000					ND	
218 Fluoromethane TIC	1		0.000					ND	
225 1,1-Dichloro-1-fluoroethane TIC	1		0.000					ND	
222 Vinyl Fluoride TIC	1		0.000					ND	
162 Chlorotrifluoroethene	1		0.000					ND	
163 Propene oxide	1		0.000					ND	
221 1,1,1-Trichloro-2,2,2-trifluoroethane TIC	1		0.000					ND	
220 1,2-Dichlorofluoroethane TIC	1		0.000					ND	
219 1,1,1-Trifluoro-2,2-dichloroethane TIC	1		0.000					ND	
164 1-Chloropropane	1		0.000					ND	
166 Ethanol	45		3.269					ND	

**QC Flag Legend**

## Processing Flags

7 - Failed Limit of Detection

## Review Flags

U - Marked Undetected

**Reagents:**

MSV\_LLcentISS\_00009

Amount Added: 5.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X05.D

Injection Date: 29-Aug-2023 19:09:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: MB

Worklist Smp#: 6

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

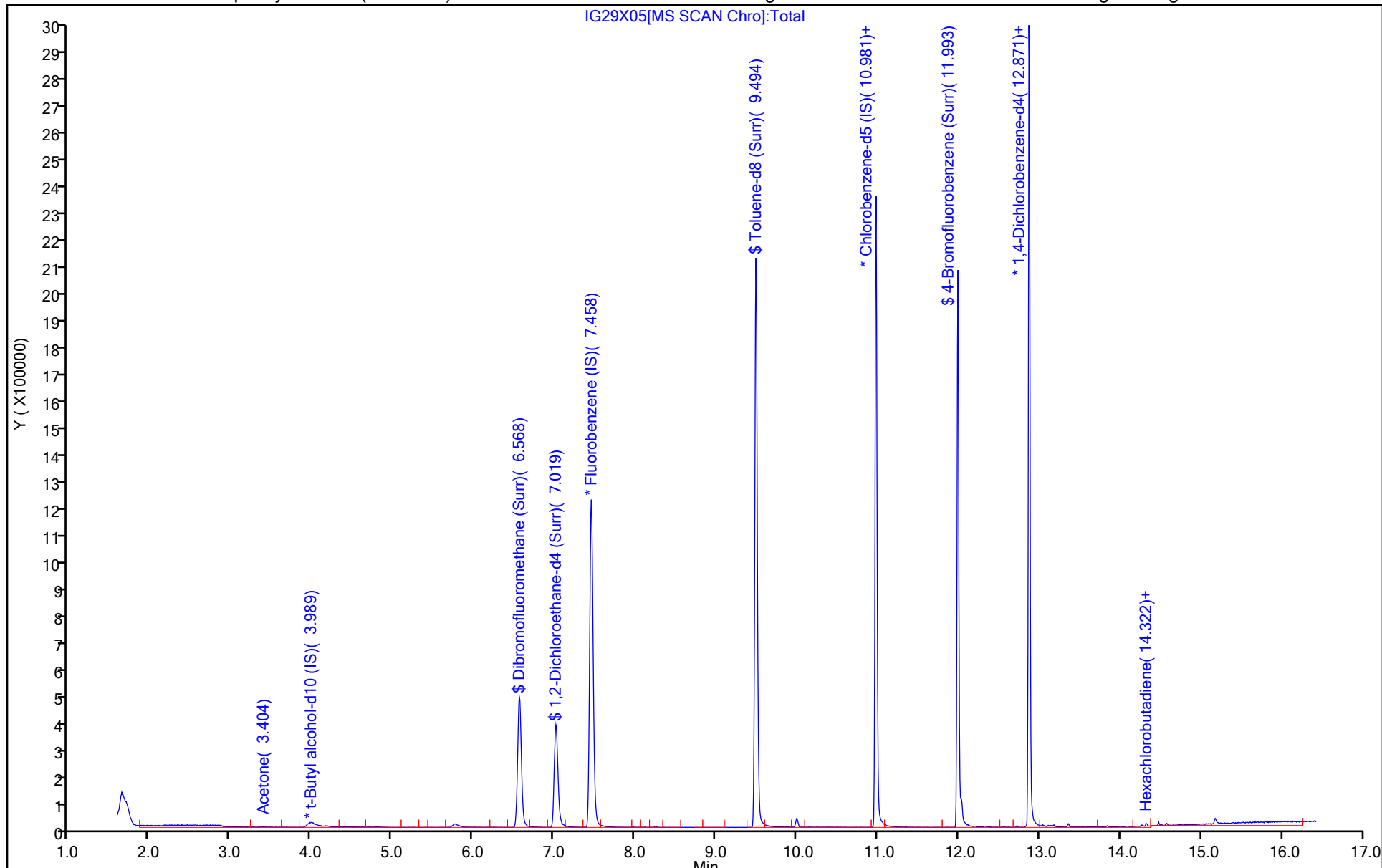
ALS Bottle#: 5

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\20230829-92765.b\IG29X05.D  
 Lims ID: MB  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 29-Aug-2023 19:09:30 ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-006  
 Misc. Info.: MB  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 15:18:30 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: JS6E Date: 29-Aug-2023 19:32:20

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	10.5	105.17
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.54
\$ 78 Toluene-d8 (Surr)	10.0	9.82	98.19
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.36	93.62

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X05.D

Injection Date: 29-Aug-2023 19:09:30

Instrument ID: 19930

Lims ID: MB

Client ID:

Operator ID: gaw91131

ALS Bottle#: 5

Worklist Smp#: 6

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

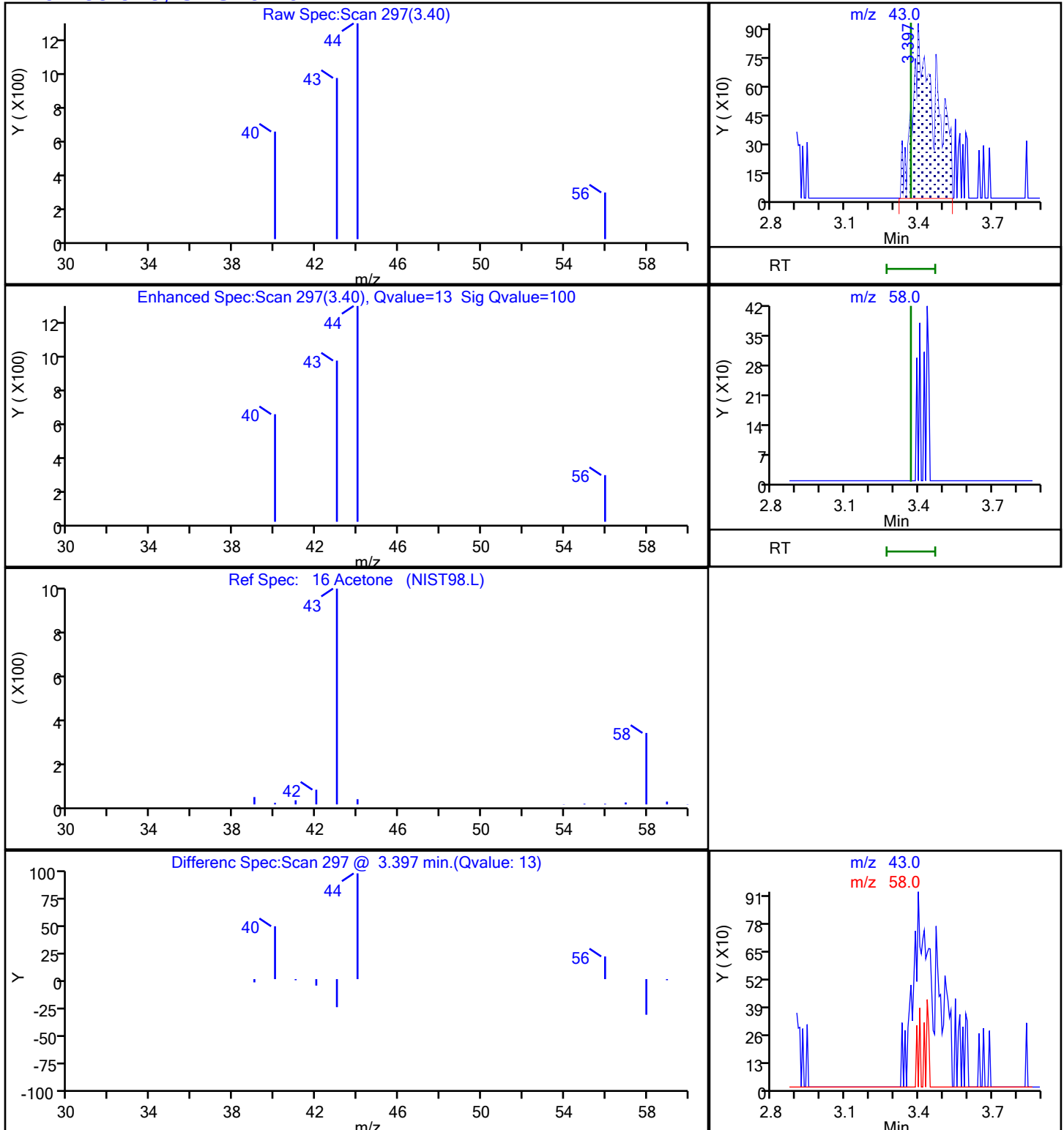
Method: 8260 25ml HP31

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.: 410-140485-1

SDG No.:

Client Sample ID:

Lab Sample ID: LCS 410-413930/4

Matrix: Water

Lab File ID: IG29X03.D

Analysis Method: 8260D

Date Collected:

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 18:26

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.: 413930

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.26		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.09		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.43		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.38		0.50	0.080
75-34-3	1,1-Dichloroethane	5.25		0.50	0.10
75-35-4	1,1-Dichloroethene	4.71		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.37		0.50	0.080
107-06-2	1,2-Dichloroethane	5.81		0.50	0.070
78-87-5	1,2-Dichloropropane	5.68		0.50	0.10
78-93-3	2-Butanone (MEK)	70.9		5.0	1.0
591-78-6	2-Hexanone	71.1		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	71.4		5.0	1.0
67-64-1	Acetone	70.1		5.0	1.0
71-43-2	Benzene	5.31		0.50	0.10
74-97-5	Bromochloromethane	5.21		0.50	0.080
75-27-4	Bromodichloromethane	5.52		0.50	0.080
75-25-2	Bromoform	5.19		1.0	0.30
74-83-9	Bromomethane	4.43		0.50	0.10
75-15-0	Carbon disulfide	5.09		1.0	0.10
56-23-5	Carbon tetrachloride	5.19		0.50	0.10
108-90-7	Chlorobenzene	5.01		0.50	0.070
75-00-3	Chloroethane	4.83		0.50	0.10
67-66-3	Chloroform	5.27		0.50	0.090
74-87-3	Chloromethane	4.90		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	5.11		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.99		0.50	0.10
124-48-1	Dibromochloromethane	5.31		0.50	0.080
100-41-4	Ethylbenzene	4.94		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.78		0.50	0.080
75-09-2	Methylene Chloride	5.26		0.50	0.20
100-42-5	Styrene	4.95		0.50	0.070
127-18-4	Tetrachloroethene	4.66		0.50	0.20
108-88-3	Toluene	5.04		0.50	0.080

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories      Job No.: 410-140485-1  
Environment Testing, LLC

SDG No.: \_\_\_\_\_

Client Sample ID: \_\_\_\_\_      Lab Sample ID: LCS 410-413930/4

Matrix: Water      Lab File ID: IG29X03.D

Analysis Method: 8260D      Date Collected: \_\_\_\_\_

Sample wt/vol: 25 (mL)      Date Analyzed: 08/29/2023 18:26

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.: 413930      Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	4.85		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.40		0.50	0.080
79-01-6	Trichloroethene	4.90		0.50	0.080
75-01-4	Vinyl chloride	4.55		0.50	0.10
1330-20-7	Xylenes, Total	14.5		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)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X03.D  
 Lims ID: LCS  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 29-Aug-2023 18:26:30 ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-004  
 Misc. Info.: LCS  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 29-Aug-2023 19:32:44 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1605

First Level Reviewer: JS6E

Date: 29-Aug-2023 18:53:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.849	1.849	0.000	99	280793	5.00	4.44	
4 Chloromethane	50	2.044	2.044	0.000	99	314214	5.00	4.90	
5 Vinyl chloride	62	2.148	2.148	0.000	98	279670	5.00	4.55	
6 Butadiene	39	2.160	2.166	-0.006	95	314021	5.00	4.89	
7 Bromomethane	94	2.471	2.471	0.000	91	212169	5.00	4.43	
8 Chloroethane	64	2.538	2.544	-0.006	100	177608	5.00	4.83	
9 Dichlorofluoromethane	67	2.770	2.776	-0.006	97	431516	5.00	4.21	
10 Trichlorofluoromethane	101	2.824	2.830	-0.006	94	372365	5.00	4.76	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.147	3.141	0.006	92	275952	5.00	4.95	
15 1,1-Dichloroethene	96	3.343	3.342	0.001	97	199390	5.00	4.71	
16 Acetone	43	3.373	3.367	0.006	99	427665	62.5	70.1	
17 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.391	3.385	0.006	90	214459	5.00	4.78	
18 Iodomethane	142	3.525	3.525	0.000	100	385610	5.00	4.33	
20 Carbon disulfide	76	3.635	3.635	0.000	99	584102	5.00	5.09	
23 Methyl acetate	43	3.769	3.763	0.006	21	75494	5.00	5.01	M
24 3-Chloro-1-propene	41	3.788	3.787	0.001	92	339744	5.00	5.17	
25 Methylene Chloride	84	3.964	3.964	0.000	93	234985	5.00	5.26	
* 26 t-Butyl alcohol-d10 (IS)	65	3.977	3.964	0.013	99	127596	50.0	50.0	M
27 2-Methyl-2-propanol	59	4.099	4.092	0.007	98	102348	50.0	42.2	
28 Acrylonitrile	53	4.281	4.281	0.000	99	241142	25.0	32.5	
29 Methyl tert-butyl ether	73	4.348	4.348	0.000	96	554506	5.00	4.78	
30 trans-1,2-Dichloroethene	96	4.361	4.361	0.000	99	228252	5.00	4.85	
31 Hexane	57	4.787	4.787	0.000	94	285624	5.00	4.63	
32 1,1-Dichloroethane	63	5.019	5.019	0.000	96	423722	5.00	5.25	
35 Isopropyl ether	45	5.086	5.086	0.000	93	689610	5.00	5.21	
36 2-Chloro-1,3-butadiene	53	5.135	5.135	0.000	91	339196	5.00	5.03	
37 Tert-butyl ethyl ether	59	5.629	5.629	0.000	96	629698	5.00	4.98	
38 2-Butanone (MEK)	43	5.824	5.824	0.000	100	834150	62.5	70.9	
39 cis-1,2-Dichloroethene	96	5.860	5.860	0.000	84	267693	5.00	5.11	
40 2,2-Dichloropropane	77	5.873	5.879	-0.006	84	379876	5.00	5.23	
43 Propionitrile	54	5.915	5.903	0.012	98	147652	37.5	47.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
45 Methacrylonitrile	67	6.129	6.122	0.007	92	494277	37.5	40.3	
46 Chlorobromomethane	128	6.190	6.196	-0.006	93	124207	5.00	5.21	
47 Tetrahydrofuran	71	6.208	6.202	0.006	83	97044	25.0	25.1	
48 Chloroform	83	6.348	6.342	0.006	93	438875	5.00	5.27	
\$ 49 Dibromofluoromethane (Surr)	113	6.561	6.561	0.000	94	413120	10.0	10.2	
50 1,1,1-Trichloroethane	97	6.568	6.567	0.001	98	395944	5.00	5.09	
51 Cyclohexane	56	6.677	6.671	0.006	91	363337	5.00	4.93	
54 Carbon tetrachloride	117	6.781	6.787	-0.006	92	359894	5.00	5.19	
53 1,1-Dichloropropene	75	6.787	6.787	0.000	95	324745	5.00	5.24	
55 Isobutyl alcohol	41	6.952	6.945	0.007	91	115076	125.0	133.4	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.013	7.012	0.001	84	84278	10.0	10.5	
57 Benzene	78	7.049	7.049	0.000	97	988777	5.00	5.31	
58 1,2-Dichloroethane	62	7.122	7.116	0.006	97	293497	5.00	5.81	
60 Tert-amyl methyl ether	73	7.244	7.244	0.000	97	605465	5.00	5.18	
* 61 Fluorobenzene (IS)	96	7.452	7.451	0.001	98	1577725	10.0	10.0	
62 n-Heptane	43	7.470	7.470	0.000	91	325610	5.00	5.49	
63 n-Butanol	56	7.842	7.835	0.007	93	185768	250.0	280.4	
64 Trichloroethene	95	7.939	7.933	0.006	97	253911	5.00	4.90	
65 Methylcyclohexane	83	8.244	8.244	0.000	93	389220	5.00	4.65	
66 1,2-Dichloropropane	63	8.268	8.262	0.006	94	261419	5.00	5.68	
67 Methyl methacrylate	69	8.366	8.360	0.006	91	119832	5.00	4.95	
68 1,4-Dioxane	88	8.366	8.360	0.006	32	23705	125.0	168.5	
69 Dibromomethane	93	8.378	8.378	0.000	93	130312	5.00	5.64	
71 Dichlorobromomethane	83	8.616	8.616	0.000	99	330257	5.00	5.52	
72 2-Nitropropane	41	8.878	8.878	0.000	99	39320	5.00	4.97	
75 1-Bromo-2-chloroethane	63	9.012	9.006	0.006	99	267514	5.00	5.70	
76 cis-1,3-Dichloropropene	75	9.177	9.177	0.000	96	358438	5.00	4.99	
77 4-Methyl-2-pentanone (MIBK)	43	9.354	9.353	0.001	97	2253922	62.5	71.4	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.494	0.000	93	1639622	10.0	10.2	
79 Toluene	92	9.573	9.567	0.006	99	639957	5.00	5.04	
97 trans-1,3-Dichloropropene	75	9.841	9.841	0.000	93	323602	5.00	5.40	
99 Ethyl methacrylate	69	9.908	9.908	0.000	89	236163	5.00	4.77	
100 1,1,2-Trichloroethane	97	10.049	10.048	0.001	91	192732	5.00	5.38	
101 Tetrachloroethene	166	10.134	10.134	0.000	98	308814	5.00	4.66	
102 1,3-Dichloropropane	76	10.213	10.213	0.000	91	314431	5.00	5.55	
103 2-Hexanone	43	10.268	10.262	0.006	97	1587710	62.5	71.1	
105 Chlorodibromomethane	129	10.433	10.433	0.000	89	247683	5.00	5.31	
106 Ethylene Dibromide	107	10.542	10.542	0.000	99	181504	5.00	5.37	
* 107 Chlorobenzene-d5 (IS)	117	10.981	10.981	0.000	85	1251933	10.0	10.0	
108 1-Chlorohexane	91	10.994	10.993	0.001	98	327443	5.00	4.43	
109 Chlorobenzene	112	11.006	11.006	0.000	95	744890	5.00	5.01	
111 1,1,1,2-Tetrachloroethane	131	11.091	11.091	0.000	95	278267	5.00	5.26	
112 Ethylbenzene	91	11.097	11.091	0.006	98	1222281	5.00	4.94	
113 m-Xylene & p-Xylene	106	11.213	11.213	0.000	93	992225	10.0	9.91	
114 o-Xylene	106	11.542	11.542	0.000	96	456082	5.00	4.61	
115 Styrene	104	11.560	11.560	0.000	95	787518	5.00	4.95	
116 Bromoform	173	11.719	11.719	0.000	98	157127	5.00	5.19	
117 Isopropylbenzene	105	11.847	11.847	0.000	96	1208901	5.00	4.71	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.993	11.987	0.006	94	603628	10.0	9.95	
121 1,1,2,2-Tetrachloroethane	83	12.091	12.091	0.000	94	244516	5.00	5.43	
122 Bromobenzene	156	12.103	12.103	0.000	96	320002	5.00	4.92	
123 trans-1,4-Dichloro-2-butene	53	12.115	12.115	0.000	95	263006	25.0	22.1	

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	12.140	12.140	0.000	83	67893	5.00	5.37	
125 N-Propylbenzene	91	12.176	12.176	0.000	99	1455642	5.00	5.05	
126 2-Chlorotoluene	126	12.249	12.249	0.000	97	316054	5.00	5.02	
127 1,3,5-Trimethylbenzene	105	12.316	12.310	0.006	94	1052183	5.00	4.79	
128 4-Chlorotoluene	126	12.347	12.347	0.000	97	322034	5.00	5.00	
129 tert-Butylbenzene	134	12.554	12.554	0.000	93	219938	5.00	4.17	
131 1,2,4-Trimethylbenzene	105	12.597	12.597	0.000	97	1087550	5.00	4.83	
132 sec-Butylbenzene	105	12.719	12.719	0.000	94	1352431	5.00	4.84	
133 1,3-Dichlorobenzene	146	12.816	12.816	0.000	99	618340	5.00	4.86	
134 4-Isopropyltoluene	119	12.829	12.828	0.001	97	1190377	5.00	4.78	
* 135 1,4-Dichlorobenzene-d4	152	12.871	12.871	0.000	94	756396	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.889	12.889	0.000	96	650201	5.00	5.19	
137 1,2,3-Trimethylbenzene	120	12.902	12.902	0.000	98	475803	5.00	4.67	
138 Benzyl chloride	126	12.969	12.969	0.000	99	96596	5.00	4.99	
139 n-Butylbenzene	92	13.121	13.121	0.000	97	572982	5.00	5.14	
140 1,2-Dichlorobenzene	146	13.152	13.152	0.000	99	563432	5.00	4.72	
142 1,2-Dibromo-3-Chloropropane	155	13.694	13.694	0.000	85	31795	5.00	4.32	
143 1,3,5-Trichlorobenzene	180	13.822	13.822	0.000	98	409504	5.00	4.29	
144 1,2,4-Trichlorobenzene	180	14.243	14.243	0.000	94	299056	5.00	3.90	
145 Hexachlorobutadiene	225	14.322	14.322	0.000	96	180137	5.00	4.82	
146 Naphthalene	128	14.420	14.420	0.000	97	479372	5.00	3.43	
147 1,2,3-Trichlorobenzene	180	14.560	14.560	0.000	95	234765	5.00	3.66	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
165 Isopropyl alcohol	45		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\_00127

Amount Added: 12.50

Units: uL

MSV\_QC\_Gas826\_00157

Amount Added: 12.50

Units: uL

MSV\_LLcentISS\_00009

Amount Added: 5.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X03.D

Injection Date: 29-Aug-2023 18:26:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

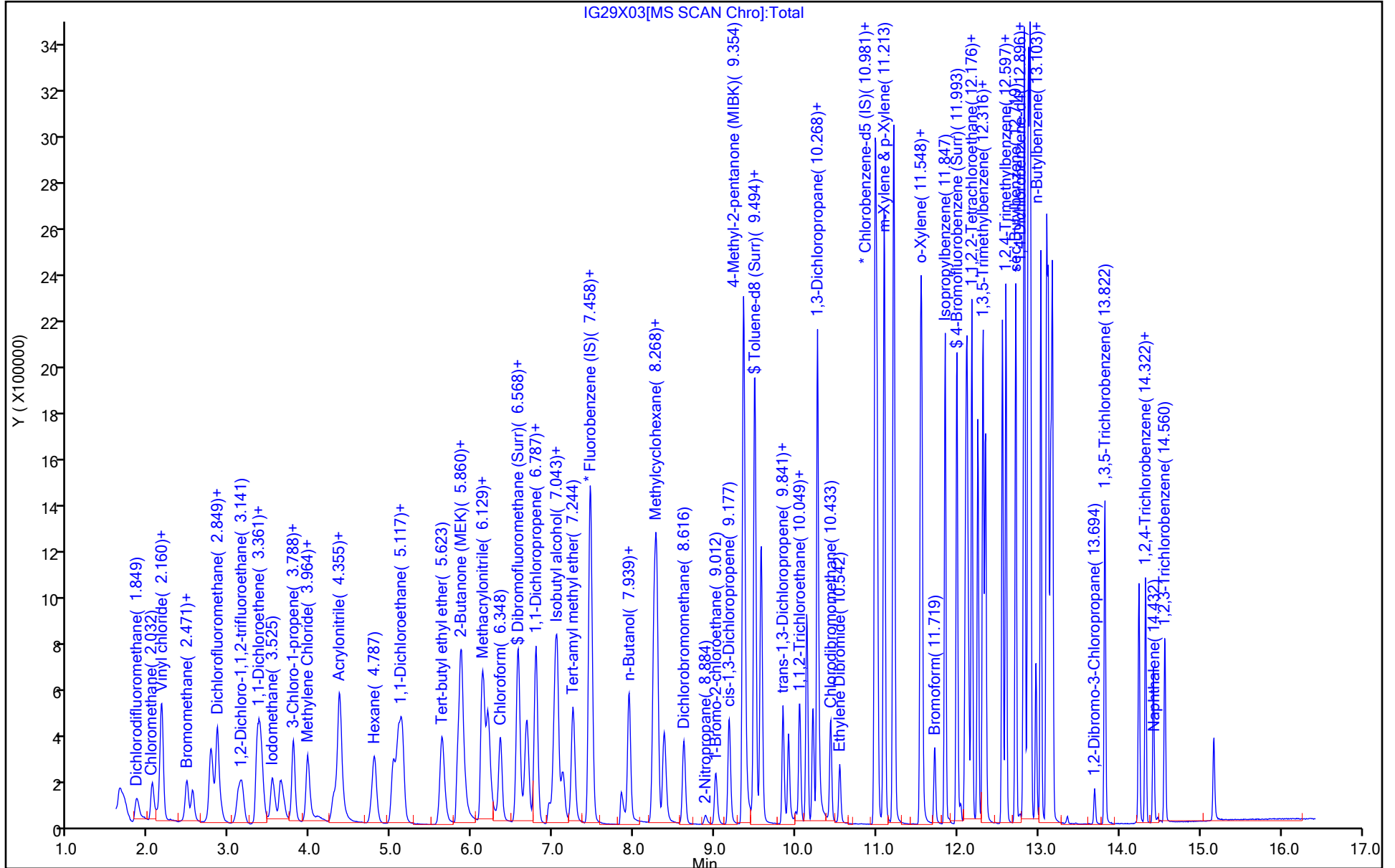
ALS Bottle#: 3

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\20230829-92765.b\IG29X03.D  
 Lims ID: LCS  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 29-Aug-2023 18:26:30 ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-004  
 Misc. Info.: LCS  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 29-Aug-2023 19:32:44 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1605

First Level Reviewer: JS6E Date: 29-Aug-2023 18:53:25

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	10.2	101.94
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	104.89
\$ 78 Toluene-d8 (Surr)	10.0	10.2	101.87
\$ 120 4-Bromofluorobenzene (Surr)	10.0	9.95	99.53

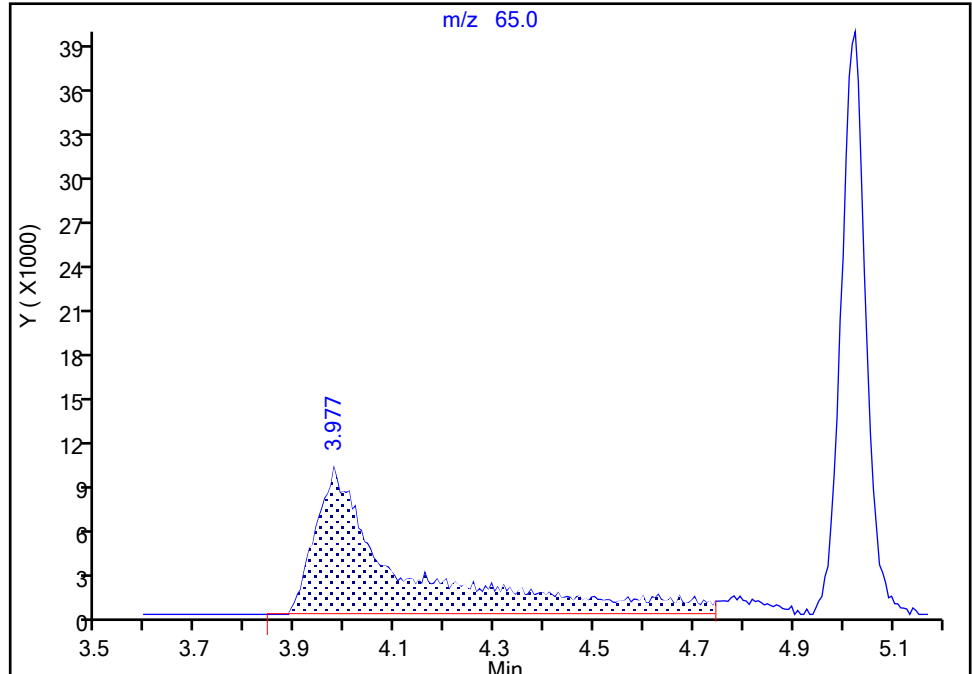
Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X03.D  
Injection Date: 29-Aug-2023 18:26:30 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

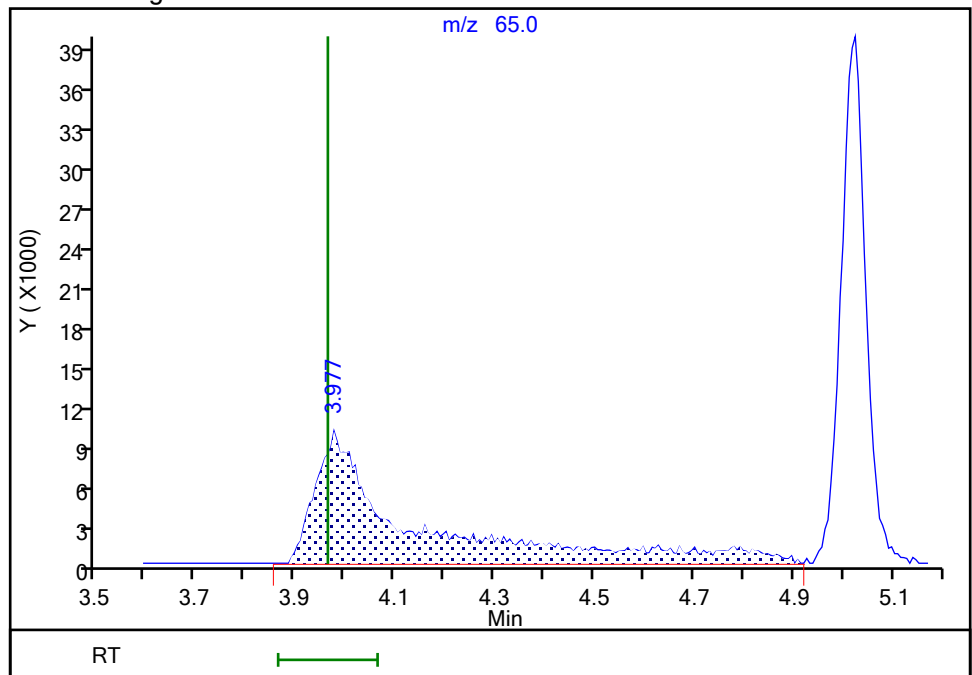
RT: 3.98  
Area: 120367  
Amount: 50.000000  
Amount Units: ug/l

Processing Integration Results



RT: 3.98  
Area: 127596  
Amount: 50.000000  
Amount Units: ug/l

Manual Integration Results



Reviewer: JS6E, 29-Aug-2023 18:52:58 -04:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories  
Environment Testing, LLC

Job No.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-6 MS

Matrix: Water

Lab File ID: IG29X09.D

Analysis Method: 8260D

Date Collected: 08/24/2023 12:02

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 20:33

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.: 413930

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.71		0.50	0.070
71-55-6	1,1,1-Trichloroethane	6.08		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.53		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.47		0.50	0.080
75-34-3	1,1-Dichloroethane	6.08		0.50	0.10
75-35-4	1,1-Dichloroethene	5.78		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.43		0.50	0.080
107-06-2	1,2-Dichloroethane	5.85		0.50	0.070
78-87-5	1,2-Dichloropropane	6.23		0.50	0.10
78-93-3	2-Butanone (MEK)	78.1		5.0	1.0
591-78-6	2-Hexanone	79.4		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	79.0		5.0	1.0
67-64-1	Acetone	73.6		5.0	1.0
71-43-2	Benzene	5.97		0.50	0.10
74-97-5	Bromochloromethane	5.44		0.50	0.080
75-27-4	Bromodichloromethane	5.89		0.50	0.080
75-25-2	Bromoform	5.21		1.0	0.30
74-83-9	Bromomethane	4.97		0.50	0.10
75-15-0	Carbon disulfide	6.05		1.0	0.10
56-23-5	Carbon tetrachloride	6.23		0.50	0.10
108-90-7	Chlorobenzene	5.57		0.50	0.070
75-00-3	Chloroethane	5.65		0.50	0.10
67-66-3	Chloroform	6.08		0.50	0.090
74-87-3	Chloromethane	5.92		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	6.37		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.22		0.50	0.10
124-48-1	Dibromochloromethane	5.61		0.50	0.080
100-41-4	Ethylbenzene	5.61		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.92		0.50	0.080
75-09-2	Methylene Chloride	5.72		0.50	0.20
100-42-5	Styrene	5.41		0.50	0.070
127-18-4	Tetrachloroethene	9.72		0.50	0.20
108-88-3	Toluene	5.63		0.50	0.080

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories  
Environment Testing, LLC

Job No.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-6 MS

Matrix: Water

Lab File ID: IG29X09.D

Analysis Method: 8260D

Date Collected: 08/24/2023 12:02

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 20:33

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.: 413930

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.47		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.59		0.50	0.080
79-01-6	Trichloroethene	6.69		0.50	0.080
75-01-4	Vinyl chloride	5.73		0.50	0.10
1330-20-7	Xylenes, Total	16.4		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	103		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X09.D  
 Lims ID: 410-140485-A-6 MS  
 Client ID: HD-COD-SW-15-0/1-0 MS  
 Sample Type: MS  
 Inject. Date: 29-Aug-2023 20:33:30 ALS Bottle#: 9 Worklist Smp#: 10  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-010  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:13:09 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp

Date: 30-Aug-2023 14:13:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.843	1.849	-0.006	99	375001	5.00	6.00	
4 Chloromethane	50	2.038	2.044	-0.006	99	376019	5.00	5.92	
5 Vinyl chloride	62	2.142	2.148	-0.006	98	348197	5.00	5.73	
6 Butadiene	39	2.160	2.166	-0.006	95	406369	5.00	6.39	
7 Bromomethane	94	2.465	2.471	-0.006	92	235839	5.00	4.97	
8 Chloroethane	64	2.538	2.544	-0.006	99	205208	5.00	5.65	
9 Dichlorofluoromethane	67	2.770	2.776	-0.006	97	502945	5.00	4.96	
10 Trichlorofluoromethane	101	2.818	2.830	-0.012	97	462570	5.00	5.98	
13 1,2-Dichloro-1,1,2-trifluoroetha	67	3.135	3.141	-0.006	95	336127	5.00	6.10	
15 1,1-Dichloroethene	96	3.337	3.342	-0.006	98	241800	5.00	5.78	
16 Acetone	43	3.367	3.367	0.000	100	387493	62.6	73.6	
17 1,1,2-Trichloro-1,2,2-trifluoro	101	3.385	3.385	0.000	91	279347	5.00	6.29	
18 Iodomethane	142	3.525	3.525	0.000	100	425229	5.00	4.83	
20 Carbon disulfide	76	3.635	3.635	0.000	99	686540	5.00	6.05	
23 Methyl acetate	43	3.763	3.763	0.000	97	133470	5.00	10.3	
24 3-Chloro-1-propene	41	3.782	3.787	-0.005	92	378584	5.00	5.82	
25 Methylene Chloride	84	3.958	3.964	-0.006	93	252581	5.00	5.72	
* 26 t-Butyl alcohol-d10 (IS)	65	3.971	3.964	0.007	99	110073	50.0	50.0	
27 2-Methyl-2-propanol	59	4.111	4.092	0.019	96	92904	50.0	44.4	
28 Acrylonitrile	53	4.281	4.281	0.000	99	221824	25.0	34.7	
29 Methyl tert-butyl ether	73	4.349	4.348	0.000	92	565176	5.00	4.92	
30 trans-1,2-Dichloroethene	96	4.361	4.361	0.000	99	254789	5.00	5.47	
31 Hexane	57	4.787	4.787	0.000	94	376075	5.00	6.16	
32 1,1-Dichloroethane	63	5.019	5.019	0.000	96	485207	5.00	6.08	
35 Isopropyl ether	45	5.086	5.086	0.000	92	725497	5.00	5.54	
36 2-Chloro-1,3-butadiene	53	5.129	5.135	-0.006	92	393037	5.00	5.89	
37 Tert-butyl ethyl ether	59	5.629	5.629	0.000	96	646163	5.00	5.16	
38 2-Butanone (MEK)	43	5.824	5.824	0.000	100	792456	62.6	78.1	
39 cis-1,2-Dichloroethene	96	5.860	5.860	0.000	82	330160	5.00	6.37	
40 2,2-Dichloropropane	77	5.873	5.879	-0.006	88	442764	5.00	6.16	
43 Propionitrile	54	5.921	5.903	0.018	99	122709	37.5	45.7	
45 Methacrylonitrile	67	6.123	6.122	0.001	92	475954	37.5	45.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
46 Chlorobromomethane	128	6.190	6.196	-0.006	94	128353	5.00	5.44	
47 Tetrahydrofuran	71	6.208	6.202	0.006	80	88670	25.0	26.6	
48 Chloroform	83	6.342	6.342	0.000	93	501579	5.00	6.08	
\$ 49 Dibromofluoromethane (Surr)	113	6.561	6.561	0.000	94	404852	10.0	10.1	
50 1,1,1-Trichloroethane	97	6.574	6.567	0.007	98	468340	5.00	6.08	
51 Cyclohexane	56	6.671	6.671	0.000	91	466653	5.00	6.40	
54 Carbon tetrachloride	117	6.787	6.787	0.000	94	427551	5.00	6.23	
53 1,1-Dichloropropene	75	6.787	6.787	0.000	95	384427	5.00	6.27	
55 Isobutyl alcohol	41	6.939	6.945	-0.006	91	104048	125.1	139.8	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.019	7.012	0.007	95	87180	10.0	11.0	
57 Benzene	78	7.049	7.049	0.000	97	1100283	5.00	5.97	
58 1,2-Dichloroethane	62	7.122	7.116	0.006	98	292379	5.00	5.85	
60 Tert-amyl methyl ether	73	7.244	7.244	0.000	97	608612	5.00	5.26	
* 61 Fluorobenzene (IS)	96	7.452	7.451	0.001	98	1560510	10.0	10.0	
62 n-Heptane	43	7.470	7.470	0.000	92	429398	5.00	7.32	
63 n-Butanol	56	7.842	7.835	0.007	93	166123	250.2	290.7	
64 Trichloroethene	95	7.933	7.933	0.000	97	343201	5.00	6.69	
65 Methylcyclohexane	83	8.244	8.244	0.000	93	494165	5.00	5.97	
66 1,2-Dichloropropane	63	8.262	8.262	0.000	97	283682	5.00	6.23	
67 Methyl methacrylate	69	8.360	8.360	0.000	91	111057	5.00	5.32	
68 1,4-Dioxane	88	8.366	8.360	0.006	30	22488	125.1	185.3	
69 Dibromomethane	93	8.378	8.378	0.000	94	131892	5.00	5.78	
71 Dichlorobromomethane	83	8.616	8.616	0.000	99	348933	5.00	5.89	
72 2-Nitropropane	41	8.884	8.878	0.006	99	35061	5.00	5.14	
75 1-Bromo-2-chloroethane	63	9.012	9.006	0.006	99	275723	5.00	5.94	
76 cis-1,3-Dichloropropene	75	9.177	9.177	0.000	96	371010	5.00	5.22	
77 4-Methyl-2-pentanone (MIBK)	43	9.354	9.353	0.001	97	2151973	62.6	79.0	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.494	0.000	94	1622224	10.0	10.3	
79 Toluene	92	9.573	9.567	0.006	98	701368	5.00	5.63	
97 trans-1,3-Dichloropropene	75	9.841	9.841	0.000	93	328825	5.00	5.59	
99 Ethyl methacrylate	69	9.908	9.908	0.000	89	233688	5.00	4.81	
100 1,1,2-Trichloroethane	97	10.049	10.048	0.001	92	192212	5.00	5.47	
101 Tetrachloroethene	166	10.134	10.134	0.000	98	631960	5.00	9.72	
102 1,3-Dichloropropane	76	10.213	10.213	0.000	91	325770	5.00	5.85	
103 2-Hexanone	43	10.268	10.262	0.006	97	1529411	62.6	79.4	
105 Chlorodibromomethane	129	10.433	10.433	0.000	90	256875	5.00	5.61	
106 Ethylene Dibromide	107	10.542	10.542	0.000	99	180218	5.00	5.43	
* 107 Chlorobenzene-d5 (IS)	117	10.981	10.981	0.000	86	1228515	10.0	10.0	
108 1-Chlorohexane	91	10.994	10.993	0.001	98	385816	5.00	5.32	
109 Chlorobenzene	112	11.006	11.006	0.000	95	811374	5.00	5.57	
111 1,1,1,2-Tetrachloroethane	131	11.091	11.091	0.000	96	296732	5.00	5.71	
112 Ethylbenzene	91	11.097	11.091	0.006	98	1361974	5.00	5.61	
113 m-Xylene & p-Xylene	106	11.213	11.213	0.000	93	1096666	10.0	11.2	
114 o-Xylene	106	11.542	11.542	0.000	96	506941	5.00	5.22	
115 Styrene	104	11.561	11.560	0.000	95	844263	5.00	5.41	
116 Bromoform	173	11.713	11.719	-0.006	97	154788	5.00	5.21	
117 Isopropylbenzene	105	11.847	11.847	0.000	96	1357798	5.00	5.39	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.987	11.987	0.000	97	596690	10.0	10.0	
121 1,1,2,2-Tetrachloroethane	83	12.091	12.091	0.000	94	242026	5.00	5.53	
122 Bromobenzene	156	12.103	12.103	0.000	95	337500	5.00	5.33	
123 trans-1,4-Dichloro-2-butene	53	12.115	12.115	0.000	92	245894	25.0	24.0	
124 1,2,3-Trichloropropane	110	12.140	12.140	0.000	84	66923	5.00	5.44	

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	12.176	12.176	0.000	99	1613876	5.00	5.76	
126 2-Chlorotoluene	126	12.249	12.249	0.000	97	335759	5.00	5.49	
127 1,3,5-Trimethylbenzene	105	12.316	12.310	0.006	94	1166396	5.00	5.46	
128 4-Chlorotoluene	126	12.347	12.347	0.000	97	345724	5.00	5.52	
129 tert-Butylbenzene	134	12.554	12.554	0.000	93	244257	5.00	4.76	
131 1,2,4-Trimethylbenzene	105	12.597	12.597	0.000	97	1175792	5.00	5.37	
132 sec-Butylbenzene	105	12.719	12.719	0.000	94	1524352	5.00	5.61	
133 1,3-Dichlorobenzene	146	12.816	12.816	0.000	99	651626	5.00	5.27	
134 4-Isopropyltoluene	119	12.829	12.828	0.001	97	1330886	5.00	5.50	
* 135 1,4-Dichlorobenzene-d4	152	12.871	12.871	0.000	94	735577	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.890	12.889	0.001	95	678476	5.00	5.57	
137 1,2,3-Trimethylbenzene	120	12.902	12.902	0.000	98	499654	5.00	5.04	
138 Benzyl chloride	126	12.969	12.969	0.000	98	95222	5.00	5.06	
139 n-Butylbenzene	92	13.121	13.121	0.000	97	644355	5.00	5.95	
140 1,2-Dichlorobenzene	146	13.152	13.152	0.000	99	586428	5.00	5.05	
142 1,2-Dibromo-3-Chloropropane	155	13.694	13.694	0.000	86	29272	5.00	4.09	
143 1,3,5-Trichlorobenzene	180	13.822	13.822	0.000	97	426403	5.00	4.60	
144 1,2,4-Trichlorobenzene	180	14.243	14.243	0.000	94	280969	5.00	3.77	
145 Hexachlorobutadiene	225	14.322	14.322	0.000	96	208121	5.00	5.73	
146 Naphthalene	128	14.420	14.420	0.000	97	385325	5.00	2.84	
147 1,2,3-Trichlorobenzene	180	14.560	14.560	0.000	95	190523	5.00	3.05	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
165 Isopropyl alcohol	45		0.000				ND	ND	

## QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

## Reagents:

MSV\_LCS\_VOC#1\_00127

Amount Added: 5.38

Units: uL

MSV\_QC\_Gas826\_00157

Amount Added: 5.38

Units: uL

MSV\_LLcentISS\_00009

Amount Added: 5.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X09.D

Injection Date: 29-Aug-2023 20:33:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-140485-A-6 MS

Worklist Smp#: 10

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

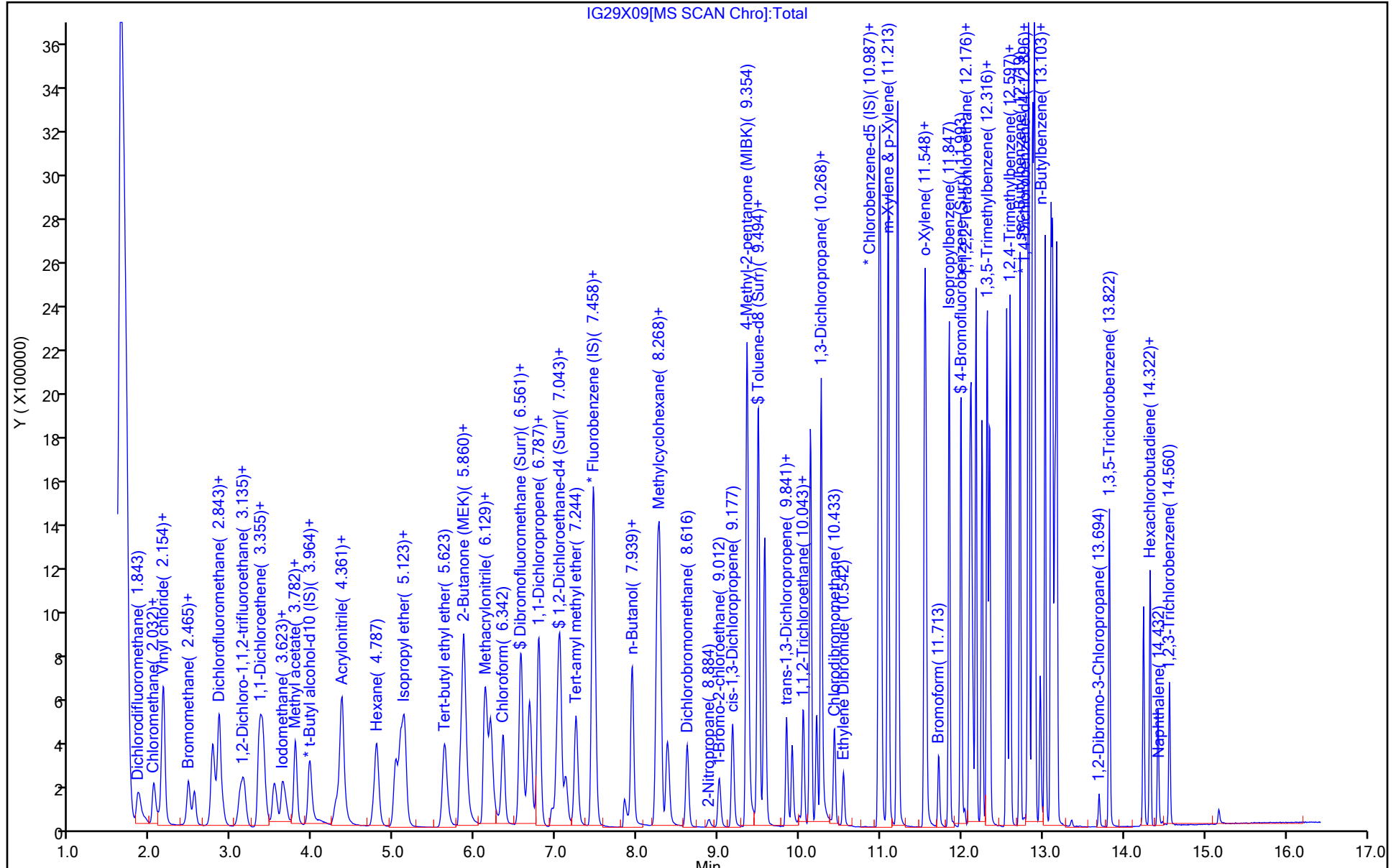
ALS Bottle#: 9

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\20230829-92765.b\IG29X09.D  
 Lims ID: 410-140485-A-6 MS  
 Client ID: HD-COD-SW-15-0/1-0 MS  
 Sample Type: MS  
 Inject. Date: 29-Aug-2023 20:33:30 ALS Bottle#: 9 Worklist Smp#: 10  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-010  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:13:09 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp

Date: 30-Aug-2023 14:13:40

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	10.1	101.00
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	11.0	109.69
\$ 78 Toluene-d8 (Surr)	10.0	10.3	102.71
\$ 120 4-Bromofluorobenzene (Surr)	10.0	10.0	100.26

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories  
Environment Testing, LLC

Job No.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-6 MSD

Matrix: Water

Lab File ID: IG29X10.D

Analysis Method: 8260D

Date Collected: 08/24/2023 12:02

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 20:54

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 413930

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.45		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.91		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.30		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.26		0.50	0.080
75-34-3	1,1-Dichloroethane	5.85		0.50	0.10
75-35-4	1,1-Dichloroethene	5.55		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.40		0.50	0.080
107-06-2	1,2-Dichloroethane	5.70		0.50	0.070
78-87-5	1,2-Dichloropropane	5.88		0.50	0.10
78-93-3	2-Butanone (MEK)	73.0		5.0	1.0
591-78-6	2-Hexanone	74.0		5.0	2.0
108-10-1	4-Methyl-2-pentanone (MIBK)	73.5		5.0	1.0
67-64-1	Acetone	71.1		5.0	1.0
71-43-2	Benzene	5.73		0.50	0.10
74-97-5	Bromochloromethane	5.27		0.50	0.080
75-27-4	Bromodichloromethane	5.69		0.50	0.080
75-25-2	Bromoform	4.99		1.0	0.30
74-83-9	Bromomethane	4.84		0.50	0.10
75-15-0	Carbon disulfide	5.75		1.0	0.10
56-23-5	Carbon tetrachloride	5.99		0.50	0.10
108-90-7	Chlorobenzene	5.34		0.50	0.070
75-00-3	Chloroethane	5.41		0.50	0.10
67-66-3	Chloroform	5.81		0.50	0.090
74-87-3	Chloromethane	5.63		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	6.21		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.12		0.50	0.10
124-48-1	Dibromochloromethane	5.33		0.50	0.080
100-41-4	Ethylbenzene	5.42		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.74		0.50	0.080
75-09-2	Methylene Chloride	5.45		0.50	0.20
100-42-5	Styrene	5.19		0.50	0.070
127-18-4	Tetrachloroethene	9.45		0.50	0.20
108-88-3	Toluene	5.49		0.50	0.080



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories  
Environment Testing, LLC

Job No.: 410-140485-1

SDG No.:

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

Lab Sample ID: 410-140485-6 MSD

Matrix: Water

Lab File ID: IG29X10.D

Analysis Method: 8260D

Date Collected: 08/24/2023 12:02

Sample wt/vol: 25 (mL)

Date Analyzed: 08/29/2023 20:54

Soil Aliquot Vol:

Dilution Factor: 1

Soil Extract Vol.:

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

Purge Volume: 25.0 (mL)

Heated Purge: (Y/N) N pH:

% Moisture: % Solids:

Level: (low/med) Low

Analysis Batch No.: 413930

Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.24		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.50		0.50	0.080
79-01-6	Trichloroethene	6.34		0.50	0.080
75-01-4	Vinyl chloride	5.53		0.50	0.10
1330-20-7	Xylenes, Total	15.7		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)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	103		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X10.D  
 Lims ID: 410-140485-A-6 MSD  
 Client ID: HD-COD-SW-15-0/1-0 MSD  
 Sample Type: MSD  
 Inject. Date: 29-Aug-2023 20:54:30 ALS Bottle#: 10 Worklist Smp#: 11  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-011  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:13:09 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp

Date: 30-Aug-2023 14:14:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.855	1.849	0.006	99	384289	5.00	5.76	
4 Chloromethane	50	2.050	2.044	0.006	99	381734	5.00	5.63	
5 Vinyl chloride	62	2.148	2.148	0.000	98	358701	5.00	5.53	
6 Butadiene	39	2.172	2.166	0.006	93	418941	5.00	6.18	
7 Bromomethane	94	2.477	2.471	0.006	91	244785	5.00	4.84	
8 Chloroethane	64	2.550	2.544	0.006	99	209667	5.00	5.41	
9 Dichlorofluoromethane	67	2.776	2.776	0.000	97	517158	5.00	4.78	
10 Trichlorofluoromethane	101	2.843	2.830	0.013	97	489578	5.00	5.93	
13 1,2-Dichloro-1,1,2-trifluoroethane	67	3.147	3.141	0.006	93	344357	5.00	5.85	
15 1,1-Dichloroethene	96	3.349	3.342	0.007	98	247881	5.00	5.55	
16 Acetone	43	3.373	3.367	0.006	100	413138	62.6	71.1	
17 1,1,2-Trichloro-1,2,2-trifluoroethane	101	3.391	3.385	0.006	91	283744	5.00	5.98	
18 Iodomethane	142	3.531	3.525	0.006	100	438184	5.00	4.66	
20 Carbon disulfide	76	3.641	3.635	0.006	99	696830	5.00	5.75	
23 Methyl acetate	43	3.781	3.763	0.018	97	141012	5.00	9.84	
24 3-Chloro-1-propene	41	3.794	3.787	0.007	92	387102	5.00	5.58	
25 Methylene Chloride	84	3.977	3.964	0.012	93	257074	5.00	5.45	
* 26 t-Butyl alcohol-d10 (IS)	65	4.001	3.964	0.037	99	121409	50.0	50.0	
27 2-Methyl-2-propanol	59	4.098	4.092	0.006	98	106049	50.0	45.9	
28 Acrylonitrile	53	4.294	4.281	0.013	99	228327	25.0	32.4	
29 Methyl tert-butyl ether	73	4.361	4.348	0.013	90	581079	5.00	4.74	
30 trans-1,2-Dichloroethene	96	4.367	4.361	0.006	98	260584	5.00	5.24	
31 Hexane	57	4.800	4.787	0.013	94	388842	5.00	5.97	
32 1,1-Dichloroethane	63	5.031	5.019	0.012	96	498701	5.00	5.85	
35 Isopropyl ether	45	5.092	5.086	0.006	93	743911	5.00	5.32	
36 2-Chloro-1,3-butadiene	53	5.141	5.135	0.006	91	414261	5.00	5.82	
37 Tert-butyl ethyl ether	59	5.629	5.629	0.000	97	674397	5.00	5.05	
38 2-Butanone (MEK)	43	5.830	5.824	0.006	100	816835	62.6	73.0	
39 cis-1,2-Dichloroethene	96	5.866	5.860	0.006	82	343241	5.00	6.21	
40 2,2-Dichloropropane	77	5.879	5.879	0.000	87	457774	5.00	5.96	
43 Propionitrile	54	5.921	5.903	0.018	99	118252	37.5	40.0	
45 Methacrylonitrile	67	6.135	6.122	0.013	92	492189	37.5	42.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
46 Chlorobromomethane	128	6.202	6.196	0.006	95	132565	5.00	5.27	
47 Tetrahydrofuran	71	6.208	6.202	0.006	81	93855	25.0	25.5	
48 Chloroform	83	6.354	6.342	0.012	93	511170	5.00	5.81	
\$ 49 Dibromofluoromethane (Surr)	113	6.567	6.561	0.006	94	432469	10.0	10.1	
50 1,1,1-Trichloroethane	97	6.574	6.567	0.007	99	485835	5.00	5.91	
51 Cyclohexane	56	6.683	6.671	0.012	92	477823	5.00	6.14	
54 Carbon tetrachloride	117	6.787	6.787	0.000	96	438132	5.00	5.99	
53 1,1-Dichloropropene	75	6.793	6.787	0.006	96	393963	5.00	6.02	
55 Isobutyl alcohol	41	6.952	6.945	0.007	92	105056	125.1	128.0	
\$ 56 1,2-Dichloroethane-d4 (Surr)	102	7.025	7.012	0.013	94	88668	10.0	10.5	
57 Benzene	78	7.049	7.049	0.000	97	1126444	5.00	5.73	
58 1,2-Dichloroethane	62	7.122	7.116	0.006	97	304043	5.00	5.70	
60 Tert-amyl methyl ether	73	7.250	7.244	0.006	97	635472	5.00	5.15	
* 61 Fluorobenzene (IS)	96	7.458	7.451	0.007	98	1665758	10.0	10.0	
62 n-Heptane	43	7.476	7.470	0.006	88	440210	5.00	7.03	
63 n-Butanol	56	7.848	7.835	0.013	93	181781	250.2	288.4	
64 Trichloroethene	95	7.939	7.933	0.006	98	346845	5.00	6.34	
65 Methylcyclohexane	83	8.250	8.244	0.006	92	516164	5.00	5.84	
66 1,2-Dichloropropane	63	8.268	8.262	0.006	85	286029	5.00	5.88	
67 Methyl methacrylate	69	8.366	8.360	0.006	90	117722	5.00	5.11	
68 1,4-Dioxane	88	8.372	8.360	0.012	30	23431	125.1	175.0	
69 Dibromomethane	93	8.378	8.378	0.000	93	136973	5.00	5.62	
71 Dichlorobromomethane	83	8.616	8.616	0.000	99	359512	5.00	5.69	
72 2-Nitropropane	41	8.890	8.878	0.012	96	37359	5.00	4.96	
75 1-Bromo-2-chloroethane	63	9.012	9.006	0.006	99	285595	5.00	5.76	
76 cis-1,3-Dichloropropene	75	9.177	9.177	0.000	96	388587	5.00	5.12	
77 4-Methyl-2-pentanone (MIBK)	43	9.354	9.353	0.001	97	2206503	62.6	73.5	
\$ 78 Toluene-d8 (Surr)	98	9.494	9.494	0.000	93	1722846	10.0	10.3	
79 Toluene	92	9.573	9.567	0.006	98	725501	5.00	5.49	
97 trans-1,3-Dichloropropene	75	9.847	9.841	0.006	93	343076	5.00	5.50	
99 Ethyl methacrylate	69	9.908	9.908	0.000	89	245566	5.00	4.76	
100 1,1,2-Trichloroethane	97	10.048	10.048	0.000	91	196094	5.00	5.26	
101 Tetrachloroethene	166	10.140	10.134	0.006	98	650879	5.00	9.45	
102 1,3-Dichloropropane	76	10.213	10.213	0.000	91	334746	5.00	5.67	
103 2-Hexanone	43	10.268	10.262	0.006	97	1571384	62.6	74.0	
105 Chlorodibromomethane	129	10.433	10.433	0.000	90	258566	5.00	5.33	
106 Ethylene Dibromide	107	10.542	10.542	0.000	97	189931	5.00	5.40	
* 107 Chlorobenzene-d5 (IS)	117	10.981	10.981	0.000	86	1302497	10.0	10.0	
108 1-Chlorohexane	91	10.993	10.993	0.000	98	395279	5.00	5.14	
109 Chlorobenzene	112	11.006	11.006	0.000	95	825192	5.00	5.34	
111 1,1,1,2-Tetrachloroethane	131	11.091	11.091	0.000	96	300012	5.00	5.45	
112 Ethylbenzene	91	11.097	11.091	0.006	98	1394460	5.00	5.42	
113 m-Xylene & p-Xylene	106	11.213	11.213	0.000	93	1119070	10.0	10.7	
114 o-Xylene	106	11.542	11.542	0.000	96	517142	5.00	5.03	
115 Styrene	104	11.560	11.560	0.000	95	858740	5.00	5.19	
116 Bromoform	173	11.719	11.719	0.000	98	157094	5.00	4.99	
117 Isopropylbenzene	105	11.847	11.847	0.000	96	1394036	5.00	5.22	
\$ 120 4-Bromofluorobenzene (Surr)	95	11.993	11.987	0.006	94	634378	10.0	10.1	
121 1,1,2,2-Tetrachloroethane	83	12.091	12.091	0.000	94	246360	5.00	5.30	
122 Bromobenzene	156	12.109	12.103	0.006	96	347794	5.00	5.18	
123 trans-1,4-Dichloro-2-butene	53	12.115	12.115	0.000	92	252767	25.0	22.4	
124 1,2,3-Trichloropropane	110	12.140	12.140	0.000	83	68800	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
125 N-Propylbenzene	91	12.176	12.176	0.000	99	1711904	5.00	5.76	
126 2-Chlorotoluene	126	12.249	12.249	0.000	97	344643	5.00	5.31	
127 1,3,5-Trimethylbenzene	105	12.316	12.310	0.006	94	1178953	5.00	5.20	
128 4-Chlorotoluene	126	12.347	12.347	0.000	97	356629	5.00	5.36	
129 tert-Butylbenzene	134	12.554	12.554	0.000	93	257809	5.00	4.73	
131 1,2,4-Trimethylbenzene	105	12.597	12.597	0.000	98	1192132	5.00	5.12	
132 sec-Butylbenzene	105	12.719	12.719	0.000	94	1562672	5.00	5.42	
133 1,3-Dichlorobenzene	146	12.816	12.816	0.000	98	669979	5.00	5.10	
134 4-Isopropyltoluene	119	12.828	12.828	0.000	97	1371193	5.00	5.34	
* 135 1,4-Dichlorobenzene-d4	152	12.877	12.871	0.006	94	780928	10.0	10.0	
136 1,4-Dichlorobenzene	146	12.889	12.889	0.000	95	687429	5.00	5.31	
137 1,2,3-Trimethylbenzene	120	12.902	12.902	0.000	99	512553	5.00	4.87	
138 Benzyl chloride	126	12.969	12.969	0.000	98	98438	5.00	4.93	
139 n-Butylbenzene	92	13.121	13.121	0.000	97	675696	5.00	5.87	
140 1,2-Dichlorobenzene	146	13.152	13.152	0.000	99	606091	5.00	4.91	
142 1,2-Dibromo-3-Chloropropane	155	13.694	13.694	0.000	87	30196	5.00	3.97	
143 1,3,5-Trichlorobenzene	180	13.822	13.822	0.000	98	451985	5.00	4.59	
144 1,2,4-Trichlorobenzene	180	14.243	14.243	0.000	94	301303	5.00	3.80	
145 Hexachlorobutadiene	225	14.322	14.322	0.000	95	215109	5.00	5.57	
146 Naphthalene	128	14.420	14.420	0.000	97	434905	5.00	3.02	
147 1,2,3-Trichlorobenzene	180	14.566	14.560	0.006	96	224238	5.00	3.38	
155 2-Methylnaphthalene	142		0.000				ND	ND	
156 p-Diethylbenzene	1		0.000				ND	ND	
161 Pentane	43		0.000				ND	ND	
150 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
165 Isopropyl alcohol	45		0.000				ND	ND	

## QC Flag Legend

### Processing Flags

ND - Not Detected or Marked ND

### Reagents:

MSV\_LCS\_VOC#1\_00127

Amount Added: 5.38

Units: uL

MSV\_QC\_Gas826\_00157

Amount Added: 5.38

Units: uL

MSV\_LLcentISS\_00009

Amount Added: 5.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\IG29X10.D

Injection Date: 29-Aug-2023 20:54:30

Instrument ID: 19930

Operator ID: gaw91131

Lims ID: 410-140485-A-6 MSD

Worklist Smp#: 11

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

Purge Vol: 25.000 mL

Dil. Factor: 1.0000

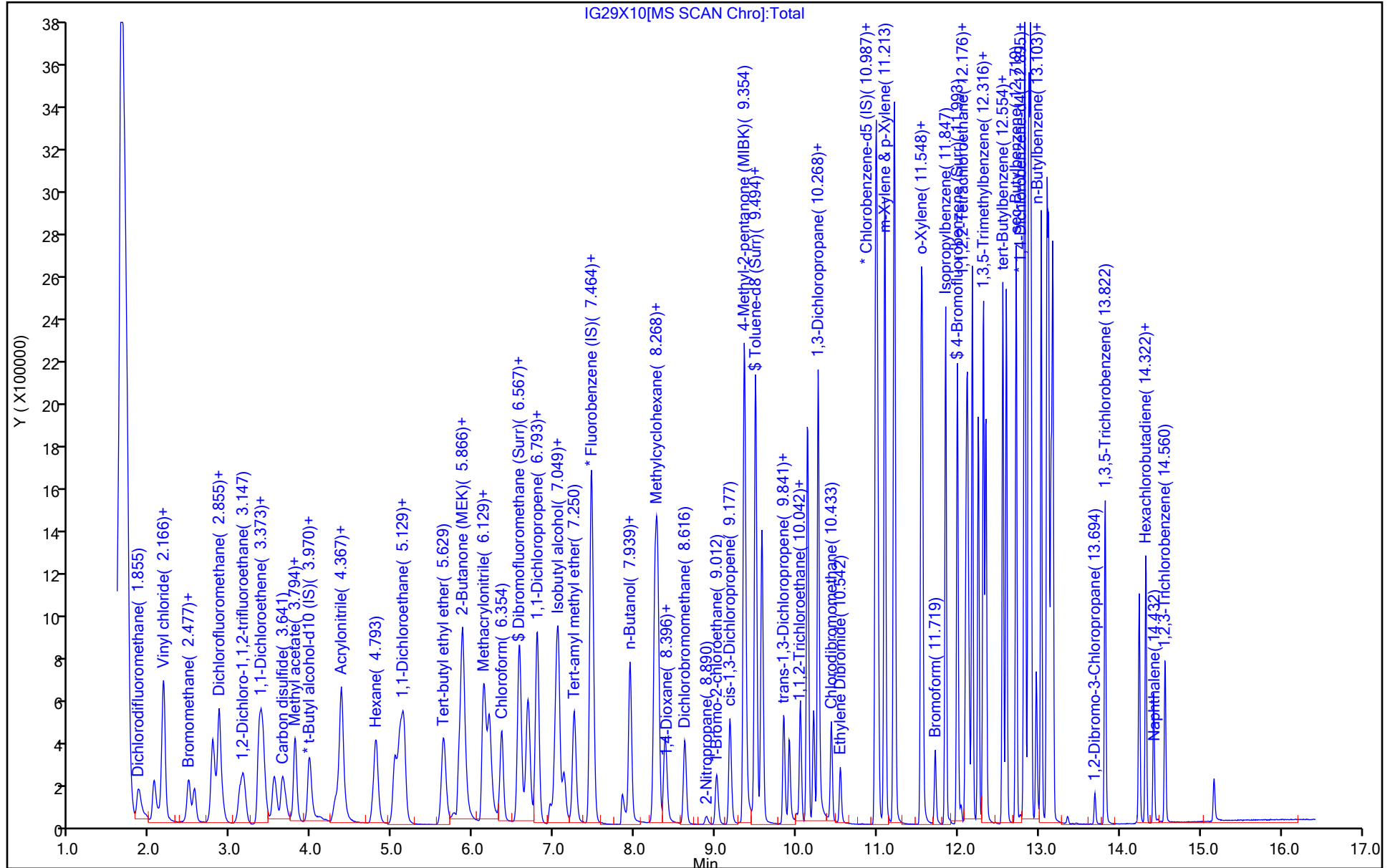
ALS Bottle#: 10

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\20230829-92765.b\IG29X10.D  
 Lims ID: 410-140485-A-6 MSD  
 Client ID: HD-COD-SW-15-0/1-0 MSD  
 Sample Type: MSD  
 Inject. Date: 29-Aug-2023 20:54:30 ALS Bottle#: 10 Worklist Smp#: 11  
 Purge Vol: 25.000 mL Dil. Factor: 1.0000  
 Sample Info: 410-0092765-011  
 Operator ID: gaw91131 Instrument ID: 19930  
 Method: \\chromfs\Lancaster\ChromData\19930\20230829-92765.b\8260 25ml HP31.m  
 Limit Group: MSV - 8260C\_D  
 Last Update: 30-Aug-2023 14:13:09 Calib Date: 19-Jun-2023 20:25:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\19930\20230619-86929.b\IU19X18.D  
 Column 1 : Rxi-624Sil MS Capillary Column ( 0.25 mm) Det: MS Quad  
 Process Host: CTX1639

First Level Reviewer: kaewrungrueangp

Date: 30-Aug-2023 14:14:16

Compound	Amount Added	Amount Recovered	% Rec.
\$ 49 Dibromofluoromethane (Surr)	10.0	10.1	101.08
\$ 56 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	104.52
\$ 78 Toluene-d8 (Surr)	10.0	10.3	102.88
\$ 120 4-Bromofluorobenzene (Surr)	10.0	10.1	100.54

## GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-140485-1

SDG No.: \_\_\_\_\_

Instrument ID: 19930Start Date: 06/19/2023 14:12Analysis Batch Number: 388102End Date: 06/19/2023 21:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-388102/1		06/19/2023 14:12	1	IU19T01.D	R-624Si1MS 30m 0.25 (mm)
IC 410-388102/3		06/19/2023 14:49	1		R-624Si1MS 30m 0.25 (mm)
IC 410-388102/4		06/19/2023 15:10	1		R-624Si1MS 30m 0.25 (mm)
IC 410-388102/5		06/19/2023 15:31	1		R-624Si1MS 30m 0.25 (mm)
IC 410-388102/6		06/19/2023 15:52	1		R-624Si1MS 30m 0.25 (mm)
IC 410-388102/7		06/19/2023 16:13	1		R-624Si1MS 30m 0.25 (mm)
IC 410-388102/8		06/19/2023 16:34	1		R-624Si1MS 30m 0.25 (mm)
IC 410-388102/9		06/19/2023 16:55	1		R-624Si1MS 30m 0.25 (mm)
ICV 410-388102/11		06/19/2023 17:37	1		R-624Si1MS 30m 0.25 (mm)
IC 410-388102/13		06/19/2023 18:19	1	IU19X12.D	R-624Si1MS 30m 0.25 (mm)
IC 410-388102/14		06/19/2023 18:40	1	IU19X13.D	R-624Si1MS 30m 0.25 (mm)
IC 410-388102/15		06/19/2023 19:01	1	IU19X14.D	R-624Si1MS 30m 0.25 (mm)
IC 410-388102/16		06/19/2023 19:22	1	IU19X15.D	R-624Si1MS 30m 0.25 (mm)
IC 410-388102/17		06/19/2023 19:42	1	IU19X16.D	R-624Si1MS 30m 0.25 (mm)
ICIS 410-388102/18		06/19/2023 20:03	1	IU19X17.D	R-624Si1MS 30m 0.25 (mm)
IC 410-388102/19		06/19/2023 20:25	1	IU19X18.D	R-624Si1MS 30m 0.25 (mm)
ICV 410-388102/21		06/19/2023 21:07	1	IU19X20.D	R-624Si1MS 30m 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Enviror Job No.: 410-140485-1

SDG No.: \_\_\_\_\_

Instrument ID: 19930 Start Date: 08/29/2023 17:32

Analysis Batch Number: 413930 End Date: 08/30/2023 03:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-413930/1		08/29/2023 17:32	1	IG29T01.D	R-624Si1MS 30m 0.25 (mm)
CCVIS 410-413930/3		08/29/2023 18:06	1	IG29X02.D	R-624Si1MS 30m 0.25 (mm)
LCS 410-413930/4		08/29/2023 18:26	1	IG29X03.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		08/29/2023 18:47	1		R-624Si1MS 30m 0.25 (mm)
MB 410-413930/6		08/29/2023 19:09	1	IG29X05.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		08/29/2023 19:30	1		R-624Si1MS 30m 0.25 (mm)
410-140485-14	HD-QC1-0/1-2	08/29/2023 19:51	1	IG29X07.D	R-624Si1MS 30m 0.25 (mm)
410-140485-6	HD-COD-SW-15-0/1-0	08/29/2023 20:12	1	IG29X08.D	R-624Si1MS 30m 0.25 (mm)
410-140485-6 MS	HD-COD-SW-15-0/1-0 MS	08/29/2023 20:33	1	IG29X09.D	R-624Si1MS 30m 0.25 (mm)
410-140485-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	08/29/2023 20:54	1	IG29X10.D	R-624Si1MS 30m 0.25 (mm)
410-140485-1	HD-COD-SW-6-0/1-0	08/29/2023 21:36	1	IG29X12.D	R-624Si1MS 30m 0.25 (mm)
410-140485-2	HD-COD-SW-7-0/1-0	08/29/2023 21:57	1	IG29X13.D	R-624Si1MS 30m 0.25 (mm)
410-140485-3	HD-COD-SW-8-0/1-0	08/29/2023 22:18	1	IG29X14.D	R-624Si1MS 30m 0.25 (mm)
410-140485-4	HD-COD-SW-9-0/1-0	08/29/2023 22:39	1	IG29X15.D	R-624Si1MS 30m 0.25 (mm)
410-140485-5	HD-COD-SW-13-0/1-0	08/29/2023 23:00	1	IG29X16.D	R-624Si1MS 30m 0.25 (mm)
410-140485-7	HD-COD-SW-16-0/1-0	08/29/2023 23:21	1	IG29X17.D	R-624Si1MS 30m 0.25 (mm)
410-140485-9	HD-COD-SW-26-0/1-0	08/29/2023 23:42	1	IG29X18.D	R-624Si1MS 30m 0.25 (mm)
410-140485-10	HD-COD-SW-27-0/1-0	08/30/2023 00:03	1	IG29X19.D	R-624Si1MS 30m 0.25 (mm)
410-140485-11	HD-COD-SW-28-0/1-0	08/30/2023 00:25	1	IG29X20.D	R-624Si1MS 30m 0.25 (mm)
410-140485-12	HD-COD-SW-29-0/1-0	08/30/2023 00:46	1	IG29X21.D	R-624Si1MS 30m 0.25 (mm)
ZZZZZ		08/30/2023 01:06	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		08/30/2023 01:27	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		08/30/2023 01:48	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		08/30/2023 02:09	1		R-624Si1MS 30m 0.25 (mm)
ZZZZZ		08/30/2023 02:30	10		R-624Si1MS 30m 0.25 (mm)
410-140485-8	HD-COD-SW-17-0/1-0	08/30/2023 02:51	1	IG29X27.D	R-624Si1MS 30m 0.25 (mm)
410-140485-8 DL	HD-COD-SW-17-0/1-0 DL	08/30/2023 03:12	10	IG29X28.D	R-624Si1MS 30m 0.25 (mm)
410-140485-13	HD-QC1-0/1-1	08/30/2023 03:33	1	IG29X29.D	R-624Si1MS 30m 0.25 (mm)
410-140485-13 DL	HD-QC1-0/1-1 DL	08/30/2023 03:54	10	IG29X30.D	R-624Si1MS 30m 0.25 (mm)



GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-140485-1

SDG No.: \_\_\_\_\_

Batch Number: 388102 Batch Start Date: 06/19/23 14:12 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	LCS_ETBR 00006	MSV_LCS_ACROL 00118	MSV_LCS_EE 00007
BFB 410-388102/1		8260D		1 uL	1 uL				
IC 410-388102/13		8260D		25 mL	25 mL	2692			
IC 410-388102/14		8260D		25 mL	25 mL	2692			
IC 410-388102/15		8260D		25 mL	25 mL	2692			
IC 410-388102/16		8260D		25 mL	25 mL	2692			
IC 410-388102/17		8260D		25 mL	25 mL	2692			
ICIS 410-388102/18		8260D		25 mL	25 mL	2692			
IC 410-388102/19		8260D		25 mL	25 mL	2692			
ICV 410-388102/21		8260D		25 mL	25 mL	2692	12.5 uL	12.5 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_Penta 00029	MSV_LCS_VOC#1 00115	MSV_LL_#1_826 00081	MSV_LL_#2_826 00093	MSV_LL_GAS826 00156	MSV_LLcentISS 00007
BFB 410-388102/1		8260D							
IC 410-388102/13		8260D				2 uL	2 uL	2 uL	5 uL
IC 410-388102/14		8260D				2 uL	2 uL	2 uL	5 uL
IC 410-388102/15		8260D				2 uL	2 uL	2 uL	5 uL
IC 410-388102/16		8260D				2 uL	2 uL	2 uL	5 uL
IC 410-388102/17		8260D				5 uL	5 uL	5 uL	5 uL
ICIS 410-388102/18		8260D				10 uL	10 uL	10 uL	5 uL
IC 410-388102/19		8260D				25 uL	25 uL	25 uL	5 uL
ICV 410-388102/21		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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-140485-1

SDG No.: \_\_\_\_\_

Batch Number: 388102 Batch Start Date: 06/19/23 14:12 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_QC_Gas826 00145	MSV_V_BFB 00012				
BFB 410-388102/1		8260D			1 uL				
IC 410-388102/13		8260D							
IC 410-388102/14		8260D							
IC 410-388102/15		8260D							
IC 410-388102/16		8260D							
IC 410-388102/17		8260D							
ICIS 410-388102/18		8260D							
IC 410-388102/19		8260D							
ICV 410-388102/21		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.: 410-140485-1

SDG No.: \_\_\_\_\_

Batch Number: 413930 Batch Start Date: 08/29/23 17:32 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 410-413930/1		8260D		1 uL	1 uL				
CCVIS 410-413930/3		8260D		25 mL	25 mL				2705
LCS 410-413930/4		8260D		25 mL	25 mL				2705
MB 410-413930/6		8260D		25 mL	25 mL				2705
410-140485-A-14	HD-QC1-0/1-2	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-140485-A-6	HD-COD-SW-15-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-140485-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-140485-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-140485-A-1	HD-COD-SW-6-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-140485-A-2	HD-COD-SW-7-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-140485-A-3	HD-COD-SW-8-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-140485-A-4	HD-COD-SW-9-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-140485-A-5	HD-COD-SW-13-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-140485-A-7	HD-COD-SW-16-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-140485-A-9	HD-COD-SW-26-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-140485-A-10	HD-COD-SW-27-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-140485-A-11	HD-COD-SW-28-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-140485-A-12	HD-COD-SW-29-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-140485-A-8	HD-COD-SW-17-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-140485-B-8	HD-COD-SW-17-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	2705
410-140485-A-13	HD-QC1-0/1-1	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-140485-B-13	HD-QC1-0/1-1	8260D	T	25 mL	25 mL	<2 SU	N	N	2705

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.: 410-140485-1

SDG No.: \_\_\_\_\_

Batch Number: 413930 Batch Start Date: 08/29/23 17:32 Batch Analyst: Walmer, Gavin

Batch Method: 8260D Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_VOC#1 00127	MSV_LL_#1_826 00091	MSV_LL_#2_826 00101	MSV_LL_GAS826 00167	MSV_LLcentISS 00009	MSV_QC_Gas826 00157
BFB 410-413930/1		8260D							
CCVIS 410-413930/3		8260D			20 uL	20 uL	20 uL	5 uL	
LCS 410-413930/4		8260D		12.5 uL				5 uL	12.5 uL
MB 410-413930/6		8260D						5 uL	
410-140485-A-14	HD-QC1-0/1-2	8260D	T					5 uL	
410-140485-A-6	HD-COD-SW-15-0/1-0	8260D	T					5 uL	
410-140485-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	T	5.38 uL				5 uL	5.38 uL
410-140485-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	T	5.38 uL				5 uL	5.38 uL
410-140485-A-1	HD-COD-SW-6-0/1-0	8260D	T					5 uL	
410-140485-A-2	HD-COD-SW-7-0/1-0	8260D	T					5 uL	
410-140485-A-3	HD-COD-SW-8-0/1-0	8260D	T					5 uL	
410-140485-A-4	HD-COD-SW-9-0/1-0	8260D	T					5 uL	
410-140485-A-5	HD-COD-SW-13-0/1-0	8260D	T					5 uL	
410-140485-A-7	HD-COD-SW-16-0/1-0	8260D	T					5 uL	
410-140485-A-9	HD-COD-SW-26-0/1-0	8260D	T					5 uL	
410-140485-A-10	HD-COD-SW-27-0/1-0	8260D	T					5 uL	
410-140485-A-11	HD-COD-SW-28-0/1-0	8260D	T					5 uL	
410-140485-A-12	HD-COD-SW-29-0/1-0	8260D	T					5 uL	
410-140485-A-8	HD-COD-SW-17-0/1-0	8260D	T					5 uL	
410-140485-B-8	HD-COD-SW-17-0/1-0	8260D	T					5 uL	
410-140485-A-13	HD-QC1-0/1-1	8260D	T					5 uL	
410-140485-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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-140485-1

SDG No.: \_\_\_\_\_

Batch Number: 413930 Batch Start Date: 08/29/23 17:32 Batch Analyst: Walmer, Gavin

Batch Method: 8260D Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_BFB 00012				
BFB 410-413930/1		8260D		1 uL				
CCVIS 410-413930/3		8260D						
LCS 410-413930/4		8260D						
MB 410-413930/6		8260D						
410-140485-A-14	HD-QC1-0/1-2	8260D	T					
410-140485-A-6	HD-COD-SW-15-0/1-0	8260D	T					
410-140485-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	T					
410-140485-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	T					
410-140485-A-1	HD-COD-SW-6-0/1-0	8260D	T					
410-140485-A-2	HD-COD-SW-7-0/1-0	8260D	T					
410-140485-A-3	HD-COD-SW-8-0/1-0	8260D	T					
410-140485-A-4	HD-COD-SW-9-0/1-0	8260D	T					
410-140485-A-5	HD-COD-SW-13-0/1-0	8260D	T					
410-140485-A-7	HD-COD-SW-16-0/1-0	8260D	T					
410-140485-A-9	HD-COD-SW-26-0/1-0	8260D	T					
410-140485-A-10	HD-COD-SW-27-0/1-0	8260D	T					
410-140485-A-11	HD-COD-SW-28-0/1-0	8260D	T					
410-140485-A-12	HD-COD-SW-29-0/1-0	8260D	T					
410-140485-A-8	HD-COD-SW-17-0/1-0	8260D	T					
410-140485-B-8	HD-COD-SW-17-0/1-0	8260D	T					
410-140485-A-13	HD-QC1-0/1-1	8260D	T					
410-140485-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.: 410-140485-1

SDG No.: \_\_\_\_\_

Batch Number: 413930 Batch Start Date: 08/29/23 17:32 Batch Analyst: Walmer, Gavin

Batch Method: 8260D Batch End Date: \_\_\_\_\_

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# Shipping and Receiving Documents

370472

HARRISBURG PA

Environmental



Chain of Custody



Lancaster Laboratories Environmental

Acct. #

410-140485 Chain of Custody

Client: <b>Groundwater Sciences Corporation</b>				<b>Matrix</b>			<b>Analyses Requested</b>										<b>For Lab Use Only</b>					
Project Name/#: <b>fYNOP Monthly Surface Water</b>		Site ID #: <b>fYNOP, York PA</b>		<input type="checkbox"/> Tissue	<input type="checkbox"/> Ground	<input checked="" type="checkbox"/> Surface	<b>Preservation Codes</b>										SF #: _____					
Project Manager: <b>Chris O'Neil</b>		P.O. #: <b>10012.51</b>		<input type="checkbox"/> Potable	<input type="checkbox"/> NPDES	<input type="checkbox"/> Other:											SCR #: _____					
Sampler: <b>Casey Littlefield / Lucas Grimm</b>		PWSID #: <b>N/A</b>		<input type="checkbox"/> Sediment	<input type="checkbox"/> Water	<input type="checkbox"/> Other:											<b>Preservation Codes</b> H = HCl      T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> P = H <sub>3</sub> PO <sub>4</sub> O = Other					
Phone #: <b>(717) 901-8176 / (717) 756-1246</b>		Quote #:																				
State where samples were collected: <b>York, PA</b>		For Compliance: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																				
<b>Sample Identification</b>		<b>Collection</b>		<b>Grab</b>	<b>Composite</b>	<b>Soil</b>	<b>Water</b>	<b>Other:</b>	<b>Total # of Containers</b>	<b>Aqueous VOCs via 8260D (low level - 25 ml purge)</b>										<b>Remarks</b>		
		<b>Date</b>	<b>Time</b>																			
HD-COD-SW-6-0/1-0		8/24/23	1058	X			X		3	X											*All samples preserved on ice	
HD-COD-SW-7-0/1-0			1140	X			X		3	X												
HD-COD-SW-8-0/1-0			0907	X			X		3	X												
HD-COD-SW-9-0/1-0			1300	X			X		3	X												
HD-COD-SW-13-0/1-0			0935	X			X		3	X												
HD-COD-SW-15-0/1-0			1202	X			X		3	X												
HD-COD-SW-15-0/1-0 MS			1202	X			X		3	X												
HD-COD-SW-15-0/1-0 MSD			1202	X			X		3	X												
HD-COD-SW-16-0/1-0			1005	X			X		3	X												
HD-COD-SW-17-0/1-0			1016	X			X		3	X												
<b>Turnaround Time Requested (TAT)</b> (please check):				Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Relinquished by:		Date	Time	Received by:		Date	Time									
(Rush TAT is subject to laboratory approval and surcharges.)						<i>[Signature]</i>		8/24/23	1425	<i>[Signature]</i>		8/24/23	1425									
Date results are needed:				Rush results requested by (please check):		Relinquished by:		Date	Time	Received by:		Date	Time									
				E-Mail <input checked="" type="checkbox"/> Phone <input type="checkbox"/>		<i>[Signature]</i>		8/25/23	1000	<i>[Signature]</i>		8/25/23	1000									
E-mail Address:				Phone:		Relinquished by:		Date	Time	Received by:		Date	Time									
				ON FILE		<i>[Signature]</i>		8/25/23	1714	<i>[Signature]</i>												
<b>Data Package Options</b> (please check if required)						Relinquished by:		Date	Time	Received by:		Date	Time									
Type I (Validation/non-CLP) <input type="checkbox"/>		MA MCP <input type="checkbox"/>				<i>[Signature]</i>				<i>[Signature]</i>												
Type III (Reduced non-CLP) <input type="checkbox"/>		CT RCP <input type="checkbox"/>				<i>[Signature]</i>				<i>[Signature]</i>		8/25/23	1714									
Type VI (Raw Data Only) <input type="checkbox"/>		TX TRRP-13 <input type="checkbox"/>				<i>[Signature]</i>				<i>[Signature]</i>												
NJ DKQP <input type="checkbox"/>		NYSDEC Category <input type="checkbox"/> A or <input type="checkbox"/> B				Relinquished by Commercial Carrier:				Temperature upon receipt		2.4/212°C										
EDD Required? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		If yes, format: _____		CLP Like Deliverables, Project Specific Analyte List		UPS _____ FedEx _____ Other _____						<i>[Signature]</i>										



# Environmental Analysis Request/Chain of Custody



Lancaster Laboratories  
Environmental

Acct. # \_\_\_\_\_ Group # \_\_\_\_\_ Sample # \_\_\_\_\_

Client: <b>Groundwater Sciences Corporation</b>				<b>Matrix</b>			<b>Analyses Requested</b>								<b>For Lab Use Only</b>										
Project Name/#: FYNOP Monthly Surface Water		Site ID #: FYNOP, York PA		<input type="checkbox"/> Soil	<input type="checkbox"/> Sediment	<input type="checkbox"/> Tissue	<input type="checkbox"/> Potable	<input type="checkbox"/> Ground	<input checked="" type="checkbox"/> Surface	<b>Preservation Codes</b>								SF #: _____							
Project Manager: Chris O'Neil		P.O. #: 10012.51		<input type="checkbox"/> Water	<input type="checkbox"/> NPDES	Other: Trip Blank	Total # of Containers	Aqueous VOCs via 8260D (low level - 25 ml purge)	H												SCR #: _____				
Sampler: Casey Littlefield / Lucas Grimm		PWSID #: N/A										Preservation Codes H = HCl      T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> P = H <sub>3</sub> PO <sub>4</sub> O = Other													
Phone #: (717) 901-8176 / (717) 756-1246		Quote #:																							
State where samples were collected: York, PA				For Compliance: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																					
<b>Sample Identification</b>			<b>Collection</b>		<input type="checkbox"/> Composite																				
	Date	Time	Grab																						
HD-COD-SW-26-0/1-0	8/24/2023	1123	X			X				3	X												*All samples		
HD-COD-SW-27-0/1-0		1153	X			X				3	X												preserved on ice		
HD-COD-SW-28-0/1-0		1320	X			X				3	X														
HD-COD-SW-29-0/1-0		0850	X			X				3	X														
HD-QC1-0/1-1		1200	X			X				3	X														
HD-QC1-0/1-2		-	X						X	2	X												Trip Blank		
<b>Turnaround Time Requested (TAT)</b> (please check):				Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Relinquished by:		Date	Time	Received by:		Date	Time												
(Rush TAT is subject to laboratory approval and surcharges.)						<i>[Signature]</i>		8/24/23	1425	<i>[Signature]</i>		8/24/23	1425												
Date results are needed:						Relinquished by:		Date	Time	Received by:		Date	Time												
Rush results requested by (please check):				E-Mail <input checked="" type="checkbox"/> Phone <input type="checkbox"/>		<i>[Signature]</i>		8/29/23	1000	<i>[Signature]</i>		8/29/23	1000												
E-mail Address:						Relinquished by:		Date	Time	Received by:		Date	Time												
Phone: ON FILE						<i>[Signature]</i>		8/29/23	1714	<i>[Signature]</i>															
<b>Data Package Options</b> (please check if required)						Relinquished by:		Date	Time	Received by:		Date	Time												
Type I (Validation/non-CLP)	<input type="checkbox"/>	MA MCP	<input type="checkbox"/>			<i>[Signature]</i>				<i>[Signature]</i>															
Type III (Reduced non-CLP)	<input type="checkbox"/>	CT RCP	<input type="checkbox"/>			Relinquished by:		Date	Time	Received by:		Date	Time												
Type VI (Raw Data Only)	<input type="checkbox"/>	TX TRRP-13	<input type="checkbox"/>			<i>[Signature]</i>				<i>[Signature]</i>		8/29/23	1714												
NJ DKQP	<input type="checkbox"/>	NYSDEC Category	<input type="checkbox"/> A or <input type="checkbox"/> B			Relinquished by Commercial Carrier:						Temperature upon receipt		2.4/2.7c											
EDD Required?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, format: _____				CLP Like Deliverables, Project Specific Analyte List		UPS _____ FedEx _____ Other _____				<i>[Signature]</i>													

## Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-140485-1

**Login Number: 140485**

**List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**

**List Number: 1**

**Creator: Wrye, Shaun**

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 (<=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temp acceptable, where thermal pres is required (<=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	Not present.
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

## Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-140485-1

**Login Number: 140485**

**List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**

**List Number: 2**

**Creator: Cyms, Carolyn M**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	N/A	
Cooler 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	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	