ANALYTICAL REPORT

Job Number: 410-88520-1

Job Description: fYNOP Monthly Surface Water

For:
Groundwater Sciences Corporation
2550 Interstate Drive
Suite 303
Harrisburg, PA 17110

Attention: Christopher O'Neil

Approved for release.
Marrissa C Williams
Project Manager
7/7/2022 1:02 PM

Marrissa C Williams, Project Manager
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07/07/2022

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.This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Qualifiers

GC/MS VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
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
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Receipt
The samples were received on 6/22/2022 1:38 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 -0.9°C

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

Detection Summary

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

Job ID: 410-88520-1

Client Sample ID: HD-COD-SW-6-0/1-0 — Lab Sample ID: 410-88520-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.5	J	5.0	1.0	ug/L	1		8260D	Total/NA
Chloromethane	0.24	J	0.50	0.10	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-7-0/1-0 — Lab Sample ID: 410-88520-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.9	J	5.0	1.0	ug/L	1		8260D	Total/NA
Chloroform	0.092	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.085	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.085	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-8-0/1-0 — Lab Sample ID: 410-88520-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.4	J	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.12	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.34	J	0.50	0.20	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-9-0/1-0 — Lab Sample ID: 410-88520-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.0	J	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.085	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.21	J	0.50	0.20	ug/L	1		8260D	Total/NA
Toluene	0.11	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.093	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-13-0/1-0 — Lab Sample ID: 410-88520-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.0	J	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.14	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.76		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-15-0/1-0 — Lab Sample ID: 410-88520-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.31	J	0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.12	J	0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.18	J	0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.34	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	1.3		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	5.7		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	1.6		0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-16-0/1-0 — Lab Sample ID: 410-88520-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.0	J	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.13	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.76		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.14	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: 410-88520-1

Client Sample ID: HD-COD-SW-17-0/1-0 — Lab Sample ID: 410-88520-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	7.9		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	1.3		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	0.29	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	4.3		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	6.1		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	76		5.0	2.0	ug/L	10		8260D	Total/NA

Client Sample ID: HD-COD-SW-26-0/1-0 — Lab Sample ID: 410-88520-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.19	J	0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.69		0.50	0.090	ug/L	1		8260D	Total/NA
Tetrachloroethene	4.2		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: 410-88520-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.0	J	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.090	J	0.50	0.080	ug/L	1		8260D	Total/NA
Toluene	0.086	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.10	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-28-0/1-0 — Lab Sample ID: 410-88520-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.0	J	5.0	1.0	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.10	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.24	J	0.50	0.20	ug/L	1		8260D	Total/NA
Toluene	0.11	J	0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	0.11	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-29-0/1-0 — Lab Sample ID: 410-88520-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.7	J	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	0.36	J	0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.12	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-QC1-0/1-1 — Lab Sample ID: 410-88520-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	7.9		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	1.3		0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.66		0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.30	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	4.2		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	6.1		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	77		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: 410-88520-1

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

Lab Sample ID: 410-88520-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.1	J	5.0	1.0	ug/L	1		8260D	Total/NA
Chloromethane	0.10	J	0.50	0.10	ug/L	1		8260D	Total/NA
Toluene	0.16	J	0.50	0.080	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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

Date Collected: 06/21/22 10:50
Date Received: 06/22/22 13:38

Lab Sample ID: 410-88520-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/28/22 15:38	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 15:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/28/22 15:38	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 15:38	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/28/22 15:38	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 15:38	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/28/22 15:38	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/28/22 15:38	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/28/22 15:38	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/28/22 15:38	1
2-Hexanone	ND		5.0	0.10	ug/L			06/28/22 15:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/28/22 15:38	1
Acetone	**1.5**	**J**	5.0	1.0	ug/L			06/28/22 15:38	1
Benzene	ND		0.50	0.10	ug/L			06/28/22 15:38	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/28/22 15:38	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/28/22 15:38	1
Bromoform	ND		1.0	0.30	ug/L			06/28/22 15:38	1
Bromomethane	ND		0.50	0.10	ug/L			06/28/22 15:38	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/28/22 15:38	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/28/22 15:38	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/28/22 15:38	1
Chloroethane	ND		0.50	0.10	ug/L			06/28/22 15:38	1
Chloroform	ND		0.50	0.090	ug/L			06/28/22 15:38	1
Chloromethane	**0.24**	**J**	0.50	0.10	ug/L			06/28/22 15:38	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			06/28/22 15:38	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/28/22 15:38	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/28/22 15:38	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/28/22 15:38	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/28/22 15:38	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/28/22 15:38	1
Styrene	ND		0.50	0.070	ug/L			06/28/22 15:38	1
Tetrachloroethene	ND		0.50	0.20	ug/L			06/28/22 15:38	1
Toluene	ND		0.50	0.080	ug/L			06/28/22 15:38	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 15:38	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/28/22 15:38	1
Trichloroethene	ND		0.50	0.080	ug/L			06/28/22 15:38	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/28/22 15:38	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/28/22 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*06/28/22 15:38*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*06/28/22 15:38*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*06/28/22 15:38*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/28/22 15:38*	*1*

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

Date Collected: 06/21/22 11:30
Date Received: 06/22/22 13:38

Lab Sample ID: 410-88520-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/28/22 16:01	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 16:01	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/28/22 16:01	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 16:01	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/28/22 16:01	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 16:01	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/28/22 16:01	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/28/22 16:01	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/28/22 16:01	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/28/22 16:01	1
2-Hexanone	ND		5.0	0.10	ug/L			06/28/22 16:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/28/22 16:01	1
Acetone	**1.9**	**J**	5.0	1.0	ug/L			06/28/22 16:01	1
Benzene	ND		0.50	0.10	ug/L			06/28/22 16:01	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/28/22 16:01	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/28/22 16:01	1
Bromoform	ND		1.0	0.30	ug/L			06/28/22 16:01	1
Bromomethane	ND		0.50	0.10	ug/L			06/28/22 16:01	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/28/22 16:01	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/28/22 16:01	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/28/22 16:01	1
Chloroethane	ND		0.50	0.10	ug/L			06/28/22 16:01	1
Chloroform	**0.092**	**J**	0.50	0.090	ug/L			06/28/22 16:01	1
Chloromethane	ND		0.50	0.10	ug/L			06/28/22 16:01	1
cis-1,2-Dichloroethene	**0.085**	**J**	0.50	0.080	ug/L			06/28/22 16:01	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/28/22 16:01	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/28/22 16:01	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/28/22 16:01	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/28/22 16:01	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/28/22 16:01	1
Styrene	ND		0.50	0.070	ug/L			06/28/22 16:01	1
Tetrachloroethene	ND		0.50	0.20	ug/L			06/28/22 16:01	1
Toluene	ND		0.50	0.080	ug/L			06/28/22 16:01	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 16:01	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/28/22 16:01	1
Trichloroethene	**0.085**	**J**	0.50	0.080	ug/L			06/28/22 16:01	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/28/22 16:01	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/28/22 16:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*		*06/28/22 16:01*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*06/28/22 16:01*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*06/28/22 16:01*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/28/22 16:01*	*1*

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

Date Collected: 06/21/22 09:20
Date Received: 06/22/22 13:38

Lab Sample ID: 410-88520-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/28/22 16:23	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 16:23	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/28/22 16:23	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 16:23	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/28/22 16:23	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 16:23	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/28/22 16:23	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/28/22 16:23	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/28/22 16:23	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/28/22 16:23	1
2-Hexanone	ND		5.0	0.10	ug/L			06/28/22 16:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/28/22 16:23	1
Acetone	**2.4**	**J**	5.0	1.0	ug/L			06/28/22 16:23	1
Benzene	ND		0.50	0.10	ug/L			06/28/22 16:23	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/28/22 16:23	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/28/22 16:23	1
Bromoform	ND		1.0	0.30	ug/L			06/28/22 16:23	1
Bromomethane	ND		0.50	0.10	ug/L			06/28/22 16:23	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/28/22 16:23	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/28/22 16:23	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/28/22 16:23	1
Chloroethane	ND		0.50	0.10	ug/L			06/28/22 16:23	1
Chloroform	ND		0.50	0.090	ug/L			06/28/22 16:23	1
Chloromethane	ND		0.50	0.10	ug/L			06/28/22 16:23	1
cis-1,2-Dichloroethene	**0.12**	**J**	0.50	0.080	ug/L			06/28/22 16:23	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/28/22 16:23	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/28/22 16:23	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/28/22 16:23	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/28/22 16:23	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/28/22 16:23	1
Styrene	ND		0.50	0.070	ug/L			06/28/22 16:23	1
Tetrachloroethene	**0.34**	**J**	0.50	0.20	ug/L			06/28/22 16:23	1
Toluene	ND		0.50	0.080	ug/L			06/28/22 16:23	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 16:23	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/28/22 16:23	1
Trichloroethene	**0.12**	**J**	0.50	0.080	ug/L			06/28/22 16:23	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/28/22 16:23	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/28/22 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*06/28/22 16:23*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*06/28/22 16:23*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*06/28/22 16:23*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/28/22 16:23*	*1*

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

Date Collected: 06/21/22 13:20
Date Received: 06/22/22 13:38

Lab Sample ID: 410-88520-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/28/22 16:45	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 16:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/28/22 16:45	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 16:45	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/28/22 16:45	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 16:45	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/28/22 16:45	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/28/22 16:45	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/28/22 16:45	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/28/22 16:45	1
2-Hexanone	ND		5.0	0.10	ug/L			06/28/22 16:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/28/22 16:45	1
Acetone	**3.0**	**J**	5.0	1.0	ug/L			06/28/22 16:45	1
Benzene	ND		0.50	0.10	ug/L			06/28/22 16:45	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/28/22 16:45	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/28/22 16:45	1
Bromoform	ND		1.0	0.30	ug/L			06/28/22 16:45	1
Bromomethane	ND		0.50	0.10	ug/L			06/28/22 16:45	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/28/22 16:45	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/28/22 16:45	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/28/22 16:45	1
Chloroethane	ND		0.50	0.10	ug/L			06/28/22 16:45	1
Chloroform	ND		0.50	0.090	ug/L			06/28/22 16:45	1
Chloromethane	ND		0.50	0.10	ug/L			06/28/22 16:45	1
cis-1,2-Dichloroethene	**0.085**	**J**	0.50	0.080	ug/L			06/28/22 16:45	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/28/22 16:45	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/28/22 16:45	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/28/22 16:45	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/28/22 16:45	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/28/22 16:45	1
Styrene	ND		0.50	0.070	ug/L			06/28/22 16:45	1
Tetrachloroethene	**0.21**	**J**	0.50	0.20	ug/L			06/28/22 16:45	1
Toluene	**0.11**	**J**	0.50	0.080	ug/L			06/28/22 16:45	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 16:45	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/28/22 16:45	1
Trichloroethene	**0.093**	**J**	0.50	0.080	ug/L			06/28/22 16:45	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/28/22 16:45	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/28/22 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*		*06/28/22 16:45*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*06/28/22 16:45*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*06/28/22 16:45*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/28/22 16:45*	*1*

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

Date Collected: 06/21/22 09:40
Date Received: 06/22/22 13:38

Lab Sample ID: 410-88520-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/28/22 17:07	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 17:07	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/28/22 17:07	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 17:07	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/28/22 17:07	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 17:07	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/28/22 17:07	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/28/22 17:07	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/28/22 17:07	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/28/22 17:07	1
2-Hexanone	ND		5.0	0.10	ug/L			06/28/22 17:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/28/22 17:07	1
Acetone	**2.0**	**J**	5.0	1.0	ug/L			06/28/22 17:07	1
Benzene	ND		0.50	0.10	ug/L			06/28/22 17:07	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/28/22 17:07	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/28/22 17:07	1
Bromoform	ND		1.0	0.30	ug/L			06/28/22 17:07	1
Bromomethane	ND		0.50	0.10	ug/L			06/28/22 17:07	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/28/22 17:07	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/28/22 17:07	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/28/22 17:07	1
Chloroethane	ND		0.50	0.10	ug/L			06/28/22 17:07	1
Chloroform	ND		0.50	0.090	ug/L			06/28/22 17:07	1
Chloromethane	ND		0.50	0.10	ug/L			06/28/22 17:07	1
cis-1,2-Dichloroethene	**0.14**	**J**	0.50	0.080	ug/L			06/28/22 17:07	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/28/22 17:07	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/28/22 17:07	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/28/22 17:07	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/28/22 17:07	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/28/22 17:07	1
Styrene	ND		0.50	0.070	ug/L			06/28/22 17:07	1
Tetrachloroethene	**0.76**		0.50	0.20	ug/L			06/28/22 17:07	1
Toluene	ND		0.50	0.080	ug/L			06/28/22 17:07	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 17:07	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/28/22 17:07	1
Trichloroethene	**0.15**	**J**	0.50	0.080	ug/L			06/28/22 17:07	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/28/22 17:07	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/28/22 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*		*06/28/22 17:07*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*06/28/22 17:07*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*06/28/22 17:07*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/28/22 17:07*	*1*

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

Date Collected: 06/21/22 11:55
Date Received: 06/22/22 13:38

Lab Sample ID: 410-88520-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/28/22 17:29	1
1,1,1-Trichloroethane	**0.31**	**J**	0.50	0.080	ug/L			06/28/22 17:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/28/22 17:29	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 17:29	1
1,1-Dichloroethane	**0.12**	**J**	0.50	0.10	ug/L			06/28/22 17:29	1
1,1-Dichloroethene	**0.18**	**J**	0.50	0.10	ug/L			06/28/22 17:29	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/28/22 17:29	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/28/22 17:29	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/28/22 17:29	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/28/22 17:29	1
2-Hexanone	ND		5.0	0.10	ug/L			06/28/22 17:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/28/22 17:29	1
Acetone	ND		5.0	1.0	ug/L			06/28/22 17:29	1
Benzene	ND		0.50	0.10	ug/L			06/28/22 17:29	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/28/22 17:29	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/28/22 17:29	1
Bromoform	ND		1.0	0.30	ug/L			06/28/22 17:29	1
Bromomethane	ND		0.50	0.10	ug/L			06/28/22 17:29	1
Carbon disulfide	ND	FH	1.0	0.10	ug/L			06/28/22 17:29	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/28/22 17:29	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/28/22 17:29	1
Chloroethane	ND		0.50	0.10	ug/L			06/28/22 17:29	1
Chloroform	**0.34**	**J**	0.50	0.090	ug/L			06/28/22 17:29	1
Chloromethane	ND	FH	0.50	0.10	ug/L			06/28/22 17:29	1
cis-1,2-Dichloroethene	**1.3**		0.50	0.080	ug/L			06/28/22 17:29	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/28/22 17:29	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/28/22 17:29	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/28/22 17:29	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/28/22 17:29	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/28/22 17:29	1
Styrene	ND		0.50	0.070	ug/L			06/28/22 17:29	1
Tetrachloroethene	**5.7**		0.50	0.20	ug/L			06/28/22 17:29	1
Toluene	ND		0.50	0.080	ug/L			06/28/22 17:29	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 17:29	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/28/22 17:29	1
Trichloroethene	**1.6**		0.50	0.080	ug/L			06/28/22 17:29	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/28/22 17:29	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/28/22 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*80 - 120*		*06/28/22 17:29*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*06/28/22 17:29*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 120*		*06/28/22 17:29*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/28/22 17:29*	*1*

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

Date Collected: 06/21/22 10:15
Date Received: 06/22/22 13:38

Lab Sample ID: 410-88520-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/28/22 18:35	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 18:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/28/22 18:35	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 18:35	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/28/22 18:35	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 18:35	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/28/22 18:35	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/28/22 18:35	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/28/22 18:35	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/28/22 18:35	1
2-Hexanone	ND		5.0	0.10	ug/L			06/28/22 18:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/28/22 18:35	1
Acetone	**2.0**	**J**	5.0	1.0	ug/L			06/28/22 18:35	1
Benzene	ND		0.50	0.10	ug/L			06/28/22 18:35	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/28/22 18:35	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/28/22 18:35	1
Bromoform	ND		1.0	0.30	ug/L			06/28/22 18:35	1
Bromomethane	ND		0.50	0.10	ug/L			06/28/22 18:35	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/28/22 18:35	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/28/22 18:35	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/28/22 18:35	1
Chloroethane	ND		0.50	0.10	ug/L			06/28/22 18:35	1
Chloroform	ND		0.50	0.090	ug/L			06/28/22 18:35	1
Chloromethane	ND		0.50	0.10	ug/L			06/28/22 18:35	1
cis-1,2-Dichloroethene	**0.13**	**J**	0.50	0.080	ug/L			06/28/22 18:35	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/28/22 18:35	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/28/22 18:35	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/28/22 18:35	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/28/22 18:35	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/28/22 18:35	1
Styrene	ND		0.50	0.070	ug/L			06/28/22 18:35	1
Tetrachloroethene	**0.76**		0.50	0.20	ug/L			06/28/22 18:35	1
Toluene	ND		0.50	0.080	ug/L			06/28/22 18:35	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 18:35	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/28/22 18:35	1
Trichloroethene	**0.14**	**J**	0.50	0.080	ug/L			06/28/22 18:35	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/28/22 18:35	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/28/22 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*06/28/22 18:35*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*06/28/22 18:35*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*06/28/22 18:35*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/28/22 18:35*	*1*

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

Date Collected: 06/21/22 10:30
Date Received: 06/22/22 13:38

Lab Sample ID: 410-88520-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/28/22 18:57	1
1,1,1-Trichloroethane	**7.9**		0.50	0.080	ug/L			06/28/22 18:57	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/28/22 18:57	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 18:57	1
1,1-Dichloroethane	**1.3**		0.50	0.10	ug/L			06/28/22 18:57	1
1,1-Dichloroethene	**0.68**		0.50	0.10	ug/L			06/28/22 18:57	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/28/22 18:57	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/28/22 18:57	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/28/22 18:57	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/28/22 18:57	1
2-Hexanone	ND		5.0	0.10	ug/L			06/28/22 18:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/28/22 18:57	1
Acetone	ND		5.0	1.0	ug/L			06/28/22 18:57	1
Benzene	ND		0.50	0.10	ug/L			06/28/22 18:57	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/28/22 18:57	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/28/22 18:57	1
Bromoform	ND		1.0	0.30	ug/L			06/28/22 18:57	1
Bromomethane	ND		0.50	0.10	ug/L			06/28/22 18:57	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/28/22 18:57	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/28/22 18:57	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/28/22 18:57	1
Chloroethane	ND		0.50	0.10	ug/L			06/28/22 18:57	1
Chloroform	**0.29**	**J**	0.50	0.090	ug/L			06/28/22 18:57	1
Chloromethane	ND		0.50	0.10	ug/L			06/28/22 18:57	1
cis-1,2-Dichloroethene	**4.3**		0.50	0.080	ug/L			06/28/22 18:57	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/28/22 18:57	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/28/22 18:57	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/28/22 18:57	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/28/22 18:57	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/28/22 18:57	1
Styrene	ND		0.50	0.070	ug/L			06/28/22 18:57	1
Toluene	ND		0.50	0.080	ug/L			06/28/22 18:57	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 18:57	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/28/22 18:57	1
Trichloroethene	**6.1**		0.50	0.080	ug/L			06/28/22 18:57	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/28/22 18:57	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/28/22 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*06/28/22 18:57*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*06/28/22 18:57*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*06/28/22 18:57*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/28/22 18:57*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**76**		5.0	2.0	ug/L			06/30/22 19:54	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*06/30/22 19:54*	*10*

Client Sample ID: HD-COD-SW-17-0/1-0
Lab Sample ID: 410-88520-8

Date Collected: 06/21/22 10:30
Matrix: Water
Date Received: 06/22/22 13:38

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*06/30/22 19:54*	*10*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*06/30/22 19:54*	*10*
Toluene-d8 (Surr)	*106*		*80 - 120*		*06/30/22 19:54*	*10*

Client Sample ID: HD-COD-SW-26-0/1-0
Lab Sample ID: 410-88520-9

Date Collected: 06/21/22 11:15
Matrix: Water
Date Received: 06/22/22 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/28/22 19:19	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 19:19	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/28/22 19:19	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 19:19	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/28/22 19:19	1
1,1-Dichloroethene	**0.19**	**J**	0.50	0.10	ug/L			06/28/22 19:19	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/28/22 19:19	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/28/22 19:19	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/28/22 19:19	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/28/22 19:19	1
2-Hexanone	ND		5.0	0.10	ug/L			06/28/22 19:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/28/22 19:19	1
Acetone	ND		5.0	1.0	ug/L			06/28/22 19:19	1
Benzene	ND		0.50	0.10	ug/L			06/28/22 19:19	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/28/22 19:19	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/28/22 19:19	1
Bromoform	ND		1.0	0.30	ug/L			06/28/22 19:19	1
Bromomethane	ND		0.50	0.10	ug/L			06/28/22 19:19	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/28/22 19:19	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/28/22 19:19	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/28/22 19:19	1
Chloroethane	ND		0.50	0.10	ug/L			06/28/22 19:19	1
Chloroform	**0.69**		0.50	0.090	ug/L			06/28/22 19:19	1
Chloromethane	ND		0.50	0.10	ug/L			06/28/22 19:19	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			06/28/22 19:19	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/28/22 19:19	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/28/22 19:19	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/28/22 19:19	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/28/22 19:19	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/28/22 19:19	1
Styrene	ND		0.50	0.070	ug/L			06/28/22 19:19	1
Tetrachloroethene	**4.2**		0.50	0.20	ug/L			06/28/22 19:19	1
Toluene	ND		0.50	0.080	ug/L			06/28/22 19:19	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 19:19	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/28/22 19:19	1
Trichloroethene	**0.16**	**J**	0.50	0.080	ug/L			06/28/22 19:19	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/28/22 19:19	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/28/22 19:19	1

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

Lab Sample ID: 410-88520-9

Date Collected: 06/21/22 11:15

Matrix: Water

Date Received: 06/22/22 13:38

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*06/28/22 19:19*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*06/28/22 19:19*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*06/28/22 19:19*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/28/22 19:19*	*1*

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

Lab Sample ID: 410-88520-10

Date Collected: 06/21/22 11:45

Matrix: Water

Date Received: 06/22/22 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/28/22 19:41	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 19:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/28/22 19:41	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 19:41	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/28/22 19:41	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 19:41	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/28/22 19:41	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/28/22 19:41	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/28/22 19:41	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/28/22 19:41	1
2-Hexanone	ND		5.0	0.10	ug/L			06/28/22 19:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/28/22 19:41	1
Acetone	**2.0**	**J**	5.0	1.0	ug/L			06/28/22 19:41	1
Benzene	ND		0.50	0.10	ug/L			06/28/22 19:41	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/28/22 19:41	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/28/22 19:41	1
Bromoform	ND		1.0	0.30	ug/L			06/28/22 19:41	1
Bromomethane	ND		0.50	0.10	ug/L			06/28/22 19:41	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/28/22 19:41	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/28/22 19:41	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/28/22 19:41	1
Chloroethane	ND		0.50	0.10	ug/L			06/28/22 19:41	1
Chloroform	ND		0.50	0.090	ug/L			06/28/22 19:41	1
Chloromethane	ND		0.50	0.10	ug/L			06/28/22 19:41	1
cis-1,2-Dichloroethene	**0.090**	**J**	0.50	0.080	ug/L			06/28/22 19:41	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/28/22 19:41	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/28/22 19:41	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/28/22 19:41	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/28/22 19:41	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/28/22 19:41	1
Styrene	ND		0.50	0.070	ug/L			06/28/22 19:41	1
Tetrachloroethene	ND		0.50	0.20	ug/L			06/28/22 19:41	1
Toluene	**0.086**	**J**	0.50	0.080	ug/L			06/28/22 19:41	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 19:41	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/28/22 19:41	1
Trichloroethene	**0.10**	**J**	0.50	0.080	ug/L			06/28/22 19:41	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/28/22 19:41	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/28/22 19:41	1

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

Lab Sample ID: 410-88520-10

Date Collected: 06/21/22 11:45
Matrix: Water
Date Received: 06/22/22 13:38

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*06/28/22 19:41*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*06/28/22 19:41*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*06/28/22 19:41*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/28/22 19:41*	*1*

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

Lab Sample ID: 410-88520-11

Date Collected: 06/21/22 13:40
Matrix: Water
Date Received: 06/22/22 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/28/22 20:03	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 20:03	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/28/22 20:03	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 20:03	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/28/22 20:03	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 20:03	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/28/22 20:03	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/28/22 20:03	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/28/22 20:03	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/28/22 20:03	1
2-Hexanone	ND		5.0	0.10	ug/L			06/28/22 20:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/28/22 20:03	1
Acetone	**3.0**	**J**	5.0	1.0	ug/L			06/28/22 20:03	1
Benzene	ND		0.50	0.10	ug/L			06/28/22 20:03	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/28/22 20:03	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/28/22 20:03	1
Bromoform	ND		1.0	0.30	ug/L			06/28/22 20:03	1
Bromomethane	ND		0.50	0.10	ug/L			06/28/22 20:03	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/28/22 20:03	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/28/22 20:03	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/28/22 20:03	1
Chloroethane	ND		0.50	0.10	ug/L			06/28/22 20:03	1
Chloroform	ND		0.50	0.090	ug/L			06/28/22 20:03	1
Chloromethane	ND		0.50	0.10	ug/L			06/28/22 20:03	1
cis-1,2-Dichloroethene	**0.10**	**J**	0.50	0.080	ug/L			06/28/22 20:03	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/28/22 20:03	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/28/22 20:03	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/28/22 20:03	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/28/22 20:03	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/28/22 20:03	1
Styrene	ND		0.50	0.070	ug/L			06/28/22 20:03	1
Tetrachloroethene	**0.24**	**J**	0.50	0.20	ug/L			06/28/22 20:03	1
Toluene	**0.11**	**J**	0.50	0.080	ug/L			06/28/22 20:03	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 20:03	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/28/22 20:03	1
Trichloroethene	**0.11**	**J**	0.50	0.080	ug/L			06/28/22 20:03	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/28/22 20:03	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/28/22 20:03	1

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

Lab Sample ID: 410-88520-11

Date Collected: 06/21/22 13:40
Matrix: Water
Date Received: 06/22/22 13:38

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		80 - 120		06/28/22 20:03	1
4-Bromofluorobenzene (Surr)	93		80 - 120		06/28/22 20:03	1
Dibromofluoromethane (Surr)	109		80 - 120		06/28/22 20:03	1
Toluene-d8 (Surr)	100		80 - 120		06/28/22 20:03	1

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

Lab Sample ID: 410-88520-12

Date Collected: 06/21/22 09:05
Matrix: Water
Date Received: 06/22/22 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/28/22 20:25	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 20:25	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/28/22 20:25	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 20:25	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/28/22 20:25	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 20:25	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/28/22 20:25	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/28/22 20:25	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/28/22 20:25	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/28/22 20:25	1
2-Hexanone	ND		5.0	0.10	ug/L			06/28/22 20:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/28/22 20:25	1
Acetone	**1.7**	**J**	5.0	1.0	ug/L			06/28/22 20:25	1
Benzene	ND		0.50	0.10	ug/L			06/28/22 20:25	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/28/22 20:25	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/28/22 20:25	1
Bromoform	ND		1.0	0.30	ug/L			06/28/22 20:25	1
Bromomethane	ND		0.50	0.10	ug/L			06/28/22 20:25	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/28/22 20:25	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/28/22 20:25	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/28/22 20:25	1
Chloroethane	ND		0.50	0.10	ug/L			06/28/22 20:25	1
Chloroform	ND		0.50	0.090	ug/L			06/28/22 20:25	1
Chloromethane	ND		0.50	0.10	ug/L			06/28/22 20:25	1
cis-1,2-Dichloroethene	**0.12**	**J**	0.50	0.080	ug/L			06/28/22 20:25	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/28/22 20:25	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/28/22 20:25	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/28/22 20:25	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/28/22 20:25	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/28/22 20:25	1
Styrene	ND		0.50	0.070	ug/L			06/28/22 20:25	1
Tetrachloroethene	**0.36**	**J**	0.50	0.20	ug/L			06/28/22 20:25	1
Toluene	ND		0.50	0.080	ug/L			06/28/22 20:25	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 20:25	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/28/22 20:25	1
Trichloroethene	**0.12**	**J**	0.50	0.080	ug/L			06/28/22 20:25	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/28/22 20:25	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/28/22 20:25	1

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

Lab Sample ID: 410-88520-12

Date Collected: 06/21/22 09:05
Matrix: Water
Date Received: 06/22/22 13:38

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		80 - 120		06/28/22 20:25	1
4-Bromofluorobenzene (Surr)	92		80 - 120		06/28/22 20:25	1
Dibromofluoromethane (Surr)	109		80 - 120		06/28/22 20:25	1
Toluene-d8 (Surr)	99		80 - 120		06/28/22 20:25	1

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

Lab Sample ID: 410-88520-13

Date Collected: 06/21/22 12:00
Matrix: Water
Date Received: 06/22/22 13:38

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/28/22 20:47	1
1,1,1-Trichloroethane	**7.9**		0.50	0.080	ug/L			06/28/22 20:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/28/22 20:47	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 20:47	1
1,1-Dichloroethane	**1.3**		0.50	0.10	ug/L			06/28/22 20:47	1
1,1-Dichloroethene	**0.66**		0.50	0.10	ug/L			06/28/22 20:47	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/28/22 20:47	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/28/22 20:47	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/28/22 20:47	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/28/22 20:47	1
2-Hexanone	ND		5.0	0.10	ug/L			06/28/22 20:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/28/22 20:47	1
Acetone	ND		5.0	1.0	ug/L			06/28/22 20:47	1
Benzene	ND		0.50	0.10	ug/L			06/28/22 20:47	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/28/22 20:47	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/28/22 20:47	1
Bromoform	ND		1.0	0.30	ug/L			06/28/22 20:47	1
Bromomethane	ND		0.50	0.10	ug/L			06/28/22 20:47	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/28/22 20:47	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/28/22 20:47	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/28/22 20:47	1
Chloroethane	ND		0.50	0.10	ug/L			06/28/22 20:47	1
Chloroform	**0.30**	**J**	0.50	0.090	ug/L			06/28/22 20:47	1
Chloromethane	ND		0.50	0.10	ug/L			06/28/22 20:47	1
cis-1,2-Dichloroethene	**4.2**		0.50	0.080	ug/L			06/28/22 20:47	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/28/22 20:47	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/28/22 20:47	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/28/22 20:47	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/28/22 20:47	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/28/22 20:47	1
Styrene	ND		0.50	0.070	ug/L			06/28/22 20:47	1
Toluene	ND		0.50	0.080	ug/L			06/28/22 20:47	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 20:47	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/28/22 20:47	1
Trichloroethene	**6.1**		0.50	0.080	ug/L			06/28/22 20:47	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/28/22 20:47	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/28/22 20:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		80 - 120		06/28/22 20:47	1

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

Date Collected: 06/21/22 12:00
Date Received: 06/22/22 13:38

Lab Sample ID: 410-88520-13

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*06/28/22 20:47*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 120*		*06/28/22 20:47*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*06/28/22 20:47*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**77**		5.0	2.0	ug/L			06/30/22 20:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*80 - 120*		*06/30/22 20:15*	*10*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*06/30/22 20:15*	*10*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*06/30/22 20:15*	*10*
Toluene-d8 (Surr)	*105*		*80 - 120*		*06/30/22 20:15*	*10*

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

Date Collected: 06/21/22 00:00
Date Received: 06/22/22 13:38

Lab Sample ID: 410-88520-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/28/22 11:58	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 11:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/28/22 11:58	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 11:58	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/28/22 11:58	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 11:58	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/28/22 11:58	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/28/22 11:58	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/28/22 11:58	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/28/22 11:58	1
2-Hexanone	ND		5.0	0.10	ug/L			06/28/22 11:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/28/22 11:58	1
Acetone	**2.1**	**J**	5.0	1.0	ug/L			06/28/22 11:58	1
Benzene	ND		0.50	0.10	ug/L			06/28/22 11:58	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/28/22 11:58	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/28/22 11:58	1
Bromoform	ND		1.0	0.30	ug/L			06/28/22 11:58	1
Bromomethane	ND		0.50	0.10	ug/L			06/28/22 11:58	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/28/22 11:58	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/28/22 11:58	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/28/22 11:58	1
Chloroethane	ND		0.50	0.10	ug/L			06/28/22 11:58	1
Chloroform	ND		0.50	0.090	ug/L			06/28/22 11:58	1
Chloromethane	**0.10**	**J**	0.50	0.10	ug/L			06/28/22 11:58	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			06/28/22 11:58	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/28/22 11:58	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/28/22 11:58	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/28/22 11:58	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/28/22 11:58	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/28/22 11:58	1

Client Sample ID: HD-QC1-0/1-2
Lab Sample ID: 410-88520-14

Date Collected: 06/21/22 00:00
Matrix: Water
Date Received: 06/22/22 13:38

Method: 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			06/28/22 11:58	1
Tetrachloroethene	ND		0.50	0.20	ug/L			06/28/22 11:58	1
Toluene	**0.16**	**J**	0.50	0.080	ug/L			06/28/22 11:58	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 11:58	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/28/22 11:58	1
Trichloroethene	ND		0.50	0.080	ug/L			06/28/22 11:58	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/28/22 11:58	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/28/22 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*80 - 120*		*06/28/22 11:58*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*06/28/22 11:58*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*06/28/22 11:58*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/28/22 11:58*	*1*

Default Detection Limits

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

Job ID: 410-88520-1

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

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

Surrogate Summary

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

Job ID: 410-88520-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-88520-1	HD-COD-SW-6-0/1-0	111	94	107	100
410-88520-2	HD-COD-SW-7-0/1-0	112	92	108	100
410-88520-3	HD-COD-SW-8-0/1-0	111	92	109	100
410-88520-4	HD-COD-SW-9-0/1-0	113	92	109	101
410-88520-5	HD-COD-SW-13-0/1-0	112	93	109	100
410-88520-6	HD-COD-SW-15-0/1-0	113	91	111	98
410-88520-6 MS	HD-COD-SW-15-0/1-0 MS	104	100	103	102
410-88520-6 MSD	HD-COD-SW-15-0/1-0 MSD	105	98	103	103
410-88520-7	HD-COD-SW-16-0/1-0	110	92	108	98
410-88520-8	HD-COD-SW-17-0/1-0	111	91	108	96
410-88520-8 - DL	HD-COD-SW-17-0/1-0	107	96	95	106
410-88520-9	HD-COD-SW-26-0/1-0	111	91	108	99
410-88520-10	HD-COD-SW-27-0/1-0	110	93	110	99
410-88520-11	HD-COD-SW-28-0/1-0	112	93	109	100
410-88520-12	HD-COD-SW-29-0/1-0	112	92	109	99
410-88520-13	HD-QC1-0/1-1	109	91	110	96
410-88520-13 - DL	HD-QC1-0/1-1	110	96	95	105
410-88520-14	HD-QC1-0/1-2	109	93	109	99
LCS 410-270125/4	Lab Control Sample	108	100	104	103
LCS 410-271084/4	Lab Control Sample	105	101	94	107
MB 410-270125/6	Method Blank	111	93	108	100
MB 410-271084/6	Method Blank	108	98	95	106

Surrogate Legend

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

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

Lab Sample ID: MB 410-270125/6
Matrix: Water
Analysis Batch: 270125

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/28/22 11:29	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 11:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/28/22 11:29	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/28/22 11:29	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/28/22 11:29	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 11:29	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/28/22 11:29	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/28/22 11:29	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/28/22 11:29	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/28/22 11:29	1
2-Hexanone	ND		5.0	0.10	ug/L			06/28/22 11:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/28/22 11:29	1
Acetone	ND		5.0	1.0	ug/L			06/28/22 11:29	1
Benzene	ND		0.50	0.10	ug/L			06/28/22 11:29	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/28/22 11:29	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/28/22 11:29	1
Bromoform	ND		1.0	0.30	ug/L			06/28/22 11:29	1
Bromomethane	ND		0.50	0.10	ug/L			06/28/22 11:29	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/28/22 11:29	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/28/22 11:29	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/28/22 11:29	1
Chloroethane	ND		0.50	0.10	ug/L			06/28/22 11:29	1
Chloroform	ND		0.50	0.090	ug/L			06/28/22 11:29	1
Chloromethane	ND		0.50	0.10	ug/L			06/28/22 11:29	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			06/28/22 11:29	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/28/22 11:29	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/28/22 11:29	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/28/22 11:29	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/28/22 11:29	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/28/22 11:29	1
Styrene	ND		0.50	0.070	ug/L			06/28/22 11:29	1
Tetrachloroethene	ND		0.50	0.20	ug/L			06/28/22 11:29	1
Toluene	ND		0.50	0.080	ug/L			06/28/22 11:29	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/28/22 11:29	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/28/22 11:29	1
Trichloroethene	ND		0.50	0.080	ug/L			06/28/22 11:29	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/28/22 11:29	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/28/22 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*80 - 120*		*06/28/22 11:29*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*06/28/22 11:29*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*06/28/22 11:29*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/28/22 11:29*	*1*

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

Lab Sample ID: LCS 410-270125/4
Matrix: Water
Analysis Batch: 270125

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	5.00	5.40		ug/L		108	71 - 134
1,1,1-Trichloroethane	5.00	5.17		ug/L		103	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.22		ug/L		104	75 - 123
1,1,2-Trichloroethane	5.00	5.48		ug/L		110	80 - 120
1,1-Dichloroethane	5.00	5.06		ug/L		101	74 - 120
1,1-Dichloroethene	5.00	4.95		ug/L		99	80 - 131
1,2-Dibromoethane (EDB)	5.00	5.41		ug/L		108	80 - 120
1,2-Dichloroethane	5.00	5.28		ug/L		106	69 - 122
1,2-Dichloropropane	5.00	5.39		ug/L		108	80 - 120
2-Butanone (MEK)	62.5	60.5		ug/L		97	59 - 141
2-Hexanone	62.5	62.0		ug/L		99	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	61.9		ug/L		99	55 - 140
Acetone	62.5	60.2		ug/L		96	60 - 146
Benzene	5.00	5.24		ug/L		105	80 - 120
Bromochloromethane	5.00	5.58		ug/L		112	80 - 120
Bromodichloromethane	5.00	5.67		ug/L		113	73 - 124
Bromoform	5.00	5.94		ug/L		119	49 - 144
Bromomethane	5.00	5.42		ug/L		108	60 - 136
Carbon disulfide	5.00	6.39		ug/L		128	67 - 130
Carbon tetrachloride	5.00	5.26		ug/L		105	64 - 141
Chlorobenzene	5.00	5.20		ug/L		104	80 - 120
Chloroethane	5.00	5.46		ug/L		109	63 - 120
Chloroform	5.00	5.22		ug/L		104	80 - 120
Chloromethane	5.00	5.60		ug/L		112	56 - 124
cis-1,2-Dichloroethene	5.00	5.19		ug/L		104	80 - 122
cis-1,3-Dichloropropene	5.00	5.18		ug/L		104	67 - 121
Dibromochloromethane	5.00	5.77		ug/L		115	64 - 138
Ethylbenzene	5.00	5.01		ug/L		100	80 - 120
Methyl tert-butyl ether	5.00	5.02		ug/L		100	69 - 120
Methylene Chloride	5.00	5.34		ug/L		107	80 - 120
Styrene	5.00	5.04		ug/L		101	80 - 120
Tetrachloroethene	5.00	5.11		ug/L		102	80 - 120
Toluene	5.00	5.02		ug/L		100	80 - 120
trans-1,2-Dichloroethene	5.00	4.98		ug/L		100	80 - 122
trans-1,3-Dichloropropene	5.00	5.62		ug/L		112	61 - 129
Trichloroethene	5.00	5.13		ug/L		103	80 - 120
Vinyl chloride	5.00	5.45		ug/L		109	60 - 125
Xylenes, Total	15.0	15.2		ug/L		101	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

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

Lab Sample ID: 410-88520-6 MS
Matrix: Water
Analysis Batch: 270125

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		5.00	5.79		ug/L		116	71 - 134
1,1,1-Trichloroethane	0.31	J	5.00	5.99		ug/L		113	78 - 126
1,1,2,2-Tetrachloroethane	ND		5.00	5.41		ug/L		108	75 - 123
1,1,2-Trichloroethane	ND		5.00	5.77		ug/L		115	80 - 120
1,1-Dichloroethane	0.12	J	5.00	5.52		ug/L		108	74 - 120
1,1-Dichloroethene	0.18	J	5.00	5.76		ug/L		111	80 - 131
1,2-Dibromoethane (EDB)	ND		5.00	5.68		ug/L		113	80 - 120
1,2-Dichloroethane	ND		5.00	5.55		ug/L		111	69 - 122
1,2-Dichloropropane	ND		5.00	5.85		ug/L		117	80 - 120
2-Butanone (MEK)	ND		62.6	74.6		ug/L		119	59 - 141
2-Hexanone	ND		62.6	82.1		ug/L		131	52 - 140
4-Methyl-2-pentanone (MIBK)	ND		62.6	78.5		ug/L		126	55 - 140
Acetone	ND		62.6	67.7		ug/L		108	60 - 146
Benzene	ND		5.00	5.68		ug/L		113	80 - 120
Bromochloromethane	ND		5.00	5.91		ug/L		118	80 - 120
Bromodichloromethane	ND		5.00	6.09		ug/L		122	73 - 124
Bromoform	ND		5.00	6.04		ug/L		121	49 - 144
Bromomethane	ND		5.00	5.76		ug/L		115	60 - 136
Carbon disulfide	ND	FH	5.00	7.13	FH	ug/L		142	67 - 130
Carbon tetrachloride	ND		5.00	5.97		ug/L		119	64 - 141
Chlorobenzene	ND		5.00	5.67		ug/L		113	80 - 120
Chloroethane	ND		5.00	5.82		ug/L		116	63 - 120
Chloroform	0.34	J	5.00	6.00		ug/L		113	80 - 120
Chloromethane	ND	FH	5.00	6.33	FH	ug/L		126	80 - 120
cis-1,2-Dichloroethene	1.3		5.00	7.20		ug/L		117	80 - 122
cis-1,3-Dichloropropene	ND		5.00	5.46		ug/L		109	67 - 121
Dibromochloromethane	ND		5.00	6.05		ug/L		121	64 - 138
Ethylbenzene	ND		5.00	5.53		ug/L		110	80 - 120
Methyl tert-butyl ether	ND		5.00	5.08		ug/L		102	69 - 120
Methylene Chloride	ND		5.00	5.59		ug/L		112	80 - 120
Styrene	ND		5.00	5.40		ug/L		108	80 - 120
Tetrachloroethene	5.7		5.00	11.3		ug/L		113	80 - 120
Toluene	ND		5.00	5.57		ug/L		111	80 - 120
trans-1,2-Dichloroethene	ND		5.00	5.48		ug/L		109	80 - 122
trans-1,3-Dichloropropene	ND		5.00	5.93		ug/L		118	61 - 129
Trichloroethene	1.6		5.00	7.26		ug/L		114	80 - 120
Vinyl chloride	ND		5.00	6.01		ug/L		120	60 - 125
Xylenes, Total	ND		15.0	16.7		ug/L		111	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*

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

Lab Sample ID: 410-88520-6 MSD
Matrix: Water
Analysis Batch: 270125

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		5.00	5.82		ug/L		116	71 - 134	1	30
1,1,1-Trichloroethane	0.31	J	5.00	6.03		ug/L		114	78 - 126	1	30
1,1,2,2-Tetrachloroethane	ND		5.00	5.37		ug/L		107	75 - 123	1	30
1,1,2-Trichloroethane	ND		5.00	5.81		ug/L		116	80 - 120	1	30
1,1-Dichloroethane	0.12	J	5.00	5.55		ug/L		108	74 - 120	0	30
1,1-Dichloroethene	0.18	J	5.00	5.87		ug/L		114	80 - 131	2	30
1,2-Dibromoethane (EDB)	ND		5.00	5.62		ug/L		112	80 - 120	1	30
1,2-Dichloroethane	ND		5.00	5.49		ug/L		110	69 - 122	1	30
1,2-Dichloropropane	ND		5.00	5.82		ug/L		116	80 - 120	0	30
2-Butanone (MEK)	ND		62.6	75.5		ug/L		121	59 - 141	1	30
2-Hexanone	ND		62.6	82.5		ug/L		132	52 - 140	0	30
4-Methyl-2-pentanone (MIBK)	ND		62.6	79.0		ug/L		126	55 - 140	1	30
Acetone	ND		62.6	67.0		ug/L		107	60 - 146	1	30
Benzene	ND		5.00	5.69		ug/L		114	80 - 120	0	30
Bromochloromethane	ND		5.00	6.00		ug/L		120	80 - 120	2	30
Bromodichloromethane	ND		5.00	6.04		ug/L		121	73 - 124	1	30
Bromoform	ND		5.00	6.04		ug/L		121	49 - 144	0	30
Bromomethane	ND		5.00	5.81		ug/L		116	60 - 136	1	30
Carbon disulfide	ND	FH	5.00	7.18	FH	ug/L		143	67 - 130	1	30
Carbon tetrachloride	ND		5.00	6.08		ug/L		122	64 - 141	2	30
Chlorobenzene	ND		5.00	5.67		ug/L		113	80 - 120	0	30
Chloroethane	ND		5.00	5.88		ug/L		118	63 - 120	1	30
Chloroform	0.34	J	5.00	6.01		ug/L		113	80 - 120	0	30
Chloromethane	ND	FH	5.00	6.25	FH	ug/L		125	80 - 120	1	30
cis-1,2-Dichloroethene	1.3		5.00	7.20		ug/L		117	80 - 122	0	30
cis-1,3-Dichloropropene	ND		5.00	5.55		ug/L		111	67 - 121	2	30
Dibromochloromethane	ND		5.00	6.01		ug/L		120	64 - 138	1	30
Ethylbenzene	ND		5.00	5.47		ug/L		109	80 - 120	1	30
Methyl tert-butyl ether	ND		5.00	5.18		ug/L		104	69 - 120	2	30
Methylene Chloride	ND		5.00	5.69		ug/L		114	80 - 120	2	30
Styrene	ND		5.00	5.44		ug/L		109	80 - 120	1	30
Tetrachloroethene	5.7		5.00	11.2		ug/L		111	80 - 120	1	30
Toluene	ND		5.00	5.54		ug/L		111	80 - 120	1	30
trans-1,2-Dichloroethene	ND		5.00	5.55		ug/L		111	80 - 122	1	30
trans-1,3-Dichloropropene	ND		5.00	5.96		ug/L		119	61 - 129	1	30
Trichloroethene	1.6		5.00	7.25		ug/L		114	80 - 120	0	30
Vinyl chloride	ND		5.00	6.09		ug/L		122	60 - 125	1	30
Xylenes, Total	ND		15.0	16.6		ug/L		111	80 - 120	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*

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

Lab Sample ID: MB 410-271084/6
Matrix: Water
Analysis Batch: 271084

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			06/30/22 11:04	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			06/30/22 11:04	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			06/30/22 11:04	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			06/30/22 11:04	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			06/30/22 11:04	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			06/30/22 11:04	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			06/30/22 11:04	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			06/30/22 11:04	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			06/30/22 11:04	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			06/30/22 11:04	1
2-Hexanone	ND		5.0	0.10	ug/L			06/30/22 11:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			06/30/22 11:04	1
Acetone	ND		5.0	1.0	ug/L			06/30/22 11:04	1
Benzene	ND		0.50	0.10	ug/L			06/30/22 11:04	1
Bromochloromethane	ND		0.50	0.080	ug/L			06/30/22 11:04	1
Bromodichloromethane	ND		0.50	0.080	ug/L			06/30/22 11:04	1
Bromoform	ND		1.0	0.30	ug/L			06/30/22 11:04	1
Bromomethane	ND		0.50	0.10	ug/L			06/30/22 11:04	1
Carbon disulfide	ND		1.0	0.10	ug/L			06/30/22 11:04	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			06/30/22 11:04	1
Chlorobenzene	ND		0.50	0.070	ug/L			06/30/22 11:04	1
Chloroethane	ND		0.50	0.10	ug/L			06/30/22 11:04	1
Chloroform	ND		0.50	0.090	ug/L			06/30/22 11:04	1
Chloromethane	ND		0.50	0.10	ug/L			06/30/22 11:04	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			06/30/22 11:04	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			06/30/22 11:04	1
Dibromochloromethane	ND		0.50	0.080	ug/L			06/30/22 11:04	1
Ethylbenzene	ND		0.50	0.080	ug/L			06/30/22 11:04	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			06/30/22 11:04	1
Methylene Chloride	ND		0.50	0.10	ug/L			06/30/22 11:04	1
Styrene	ND		0.50	0.070	ug/L			06/30/22 11:04	1
Tetrachloroethene	ND		0.50	0.20	ug/L			06/30/22 11:04	1
Toluene	ND		0.50	0.080	ug/L			06/30/22 11:04	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			06/30/22 11:04	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			06/30/22 11:04	1
Trichloroethene	ND		0.50	0.080	ug/L			06/30/22 11:04	1
Vinyl chloride	ND		0.50	0.10	ug/L			06/30/22 11:04	1
Xylenes, Total	ND		1.0	0.070	ug/L			06/30/22 11:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*06/30/22 11:04*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*06/30/22 11:04*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 120*		*06/30/22 11:04*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*06/30/22 11:04*	*1*

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

Lab Sample ID: LCS 410-271084/4
Matrix: Water
Analysis Batch: 271084

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	5.00	4.96		ug/L		99	71 - 134
1,1,1-Trichloroethane	5.00	4.52		ug/L		90	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.92		ug/L		118	75 - 123
1,1,2-Trichloroethane	5.00	5.48		ug/L		110	80 - 120
1,1-Dichloroethane	5.00	4.92		ug/L		98	74 - 120
1,1-Dichloroethene	5.00	4.89		ug/L		98	80 - 131
1,2-Dibromoethane (EDB)	5.00	5.46		ug/L		109	80 - 120
1,2-Dichloroethane	5.00	5.05		ug/L		101	69 - 122
1,2-Dichloropropane	5.00	5.23		ug/L		105	80 - 120
2-Butanone (MEK)	62.5	71.5		ug/L		114	59 - 141
2-Hexanone	62.5	73.8		ug/L		118	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	69.5		ug/L		111	55 - 140
Acetone	62.5	62.7		ug/L		100	60 - 146
Benzene	5.00	5.08		ug/L		102	80 - 120
Bromochloromethane	5.00	4.77		ug/L		95	80 - 120
Bromodichloromethane	5.00	5.10		ug/L		102	73 - 124
Bromoform	5.00	5.03		ug/L		101	49 - 144
Bromomethane	5.00	3.84		ug/L		77	60 - 136
Carbon disulfide	5.00	5.78		ug/L		116	67 - 130
Carbon tetrachloride	5.00	4.37		ug/L		87	64 - 141
Chlorobenzene	5.00	5.12		ug/L		102	80 - 120
Chloroethane	5.00	4.47		ug/L		89	63 - 120
Chloroform	5.00	4.74		ug/L		95	80 - 120
Chloromethane	5.00	4.85		ug/L		97	56 - 124
cis-1,2-Dichloroethene	5.00	4.80		ug/L		96	80 - 122
cis-1,3-Dichloropropene	5.00	4.94		ug/L		99	67 - 121
Dibromochloromethane	5.00	5.17		ug/L		103	64 - 138
Ethylbenzene	5.00	5.28		ug/L		106	80 - 120
Methyl tert-butyl ether	5.00	5.02		ug/L		100	69 - 120
Methylene Chloride	5.00	5.07		ug/L		101	80 - 120
Styrene	5.00	5.22		ug/L		104	80 - 120
Tetrachloroethene	5.00	4.61		ug/L		92	80 - 120
Toluene	5.00	5.40		ug/L		108	80 - 120
trans-1,2-Dichloroethene	5.00	4.67		ug/L		93	80 - 122
trans-1,3-Dichloropropene	5.00	5.77		ug/L		115	61 - 129
Trichloroethene	5.00	4.68		ug/L		94	80 - 120
Vinyl chloride	5.00	4.25		ug/L		85	60 - 125
Xylenes, Total	15.0	15.2		ug/L		101	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*94*		*80 - 120*
Toluene-d8 (Surr)	*107*		*80 - 120*

GC/MS VOA

Analysis Batch: 270125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-88520-1	HD-COD-SW-6-0/1-0	Total/NA	Water	8260D	
410-88520-2	HD-COD-SW-7-0/1-0	Total/NA	Water	8260D	
410-88520-3	HD-COD-SW-8-0/1-0	Total/NA	Water	8260D	
410-88520-4	HD-COD-SW-9-0/1-0	Total/NA	Water	8260D	
410-88520-5	HD-COD-SW-13-0/1-0	Total/NA	Water	8260D	
410-88520-6	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	
410-88520-7	HD-COD-SW-16-0/1-0	Total/NA	Water	8260D	
410-88520-8	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-88520-9	HD-COD-SW-26-0/1-0	Total/NA	Water	8260D	
410-88520-10	HD-COD-SW-27-0/1-0	Total/NA	Water	8260D	
410-88520-11	HD-COD-SW-28-0/1-0	Total/NA	Water	8260D	
410-88520-12	HD-COD-SW-29-0/1-0	Total/NA	Water	8260D	
410-88520-13	HD-QC1-0/1-1	Total/NA	Water	8260D	
410-88520-14	HD-QC1-0/1-2	Total/NA	Water	8260D	
MB 410-270125/6	Method Blank	Total/NA	Water	8260D	
LCS 410-270125/4	Lab Control Sample	Total/NA	Water	8260D	
410-88520-6 MS	HD-COD-SW-15-0/1-0 MS	Total/NA	Water	8260D	
410-88520-6 MSD	HD-COD-SW-15-0/1-0 MSD	Total/NA	Water	8260D	

Analysis Batch: 271084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-88520-8 - DL	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-88520-13 - DL	HD-QC1-0/1-1	Total/NA	Water	8260D	
MB 410-271084/6	Method Blank	Total/NA	Water	8260D	
LCS 410-271084/4	Lab Control Sample	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 410-88520-1

Client Sample ID: HD-COD-SW-6-0/1-0
Lab Sample ID: 410-88520-1
Date Collected: 06/21/22 10:50
Matrix: Water
Date Received: 06/22/22 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	270125	06/28/22 15:38	DVW2	ELLE

Client Sample ID: HD-COD-SW-7-0/1-0
Lab Sample ID: 410-88520-2
Date Collected: 06/21/22 11:30
Matrix: Water
Date Received: 06/22/22 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	270125	06/28/22 16:01	DVW2	ELLE

Client Sample ID: HD-COD-SW-8-0/1-0
Lab Sample ID: 410-88520-3
Date Collected: 06/21/22 09:20
Matrix: Water
Date Received: 06/22/22 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	270125	06/28/22 16:23	DVW2	ELLE

Client Sample ID: HD-COD-SW-9-0/1-0
Lab Sample ID: 410-88520-4
Date Collected: 06/21/22 13:20
Matrix: Water
Date Received: 06/22/22 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	270125	06/28/22 16:45	DVW2	ELLE

Client Sample ID: HD-COD-SW-13-0/1-0
Lab Sample ID: 410-88520-5
Date Collected: 06/21/22 09:40
Matrix: Water
Date Received: 06/22/22 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	270125	06/28/22 17:07	DVW2	ELLE

Client Sample ID: HD-COD-SW-15-0/1-0
Lab Sample ID: 410-88520-6
Date Collected: 06/21/22 11:55
Matrix: Water
Date Received: 06/22/22 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	270125	06/28/22 17:29	DVW2	ELLE

Client Sample ID: HD-COD-SW-16-0/1-0
Lab Sample ID: 410-88520-7
Date Collected: 06/21/22 10:15
Matrix: Water
Date Received: 06/22/22 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	270125	06/28/22 18:35	DVW2	ELLE

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

Lab Sample ID: 410-88520-8

Date Collected: 06/21/22 10:30
Matrix: Water
Date Received: 06/22/22 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	270125	06/28/22 18:57	DVW2	ELLE
Total/NA	Analysis	8260D	DL	10	271084	06/30/22 19:54	DVW2	ELLE

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

Lab Sample ID: 410-88520-9

Date Collected: 06/21/22 11:15
Matrix: Water
Date Received: 06/22/22 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	270125	06/28/22 19:19	DVW2	ELLE

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

Lab Sample ID: 410-88520-10

Date Collected: 06/21/22 11:45
Matrix: Water
Date Received: 06/22/22 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	270125	06/28/22 19:41	DVW2	ELLE

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

Lab Sample ID: 410-88520-11

Date Collected: 06/21/22 13:40
Matrix: Water
Date Received: 06/22/22 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	270125	06/28/22 20:03	DVW2	ELLE

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

Lab Sample ID: 410-88520-12

Date Collected: 06/21/22 09:05
Matrix: Water
Date Received: 06/22/22 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	270125	06/28/22 20:25	DVW2	ELLE

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

Lab Sample ID: 410-88520-13

Date Collected: 06/21/22 12:00
Matrix: Water
Date Received: 06/22/22 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	270125	06/28/22 20:47	DVW2	ELLE
Total/NA	Analysis	8260D	DL	10	271084	06/30/22 20:15	DVW2	ELLE

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

Lab Sample ID: 410-88520-14

Date Collected: 06/21/22 00:00
Matrix: Water
Date Received: 06/22/22 13:38

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	270125	06/28/22 11:58	DVW2	ELLE

Laboratory References:

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

Accreditation/Certification Summary

Client: Groundwater Sciences Corporation
Job ID: 410-88520-1
Project/Site: fYNOP Monthly Surface Water

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-23

Method Summary

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

Job ID: 410-88520-1

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

Protocol References:

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

Laboratory References:

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

Sample Summary

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

Job ID: 410-88520-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-88520-1	HD-COD-SW-6-0/1-0	Water	06/21/22 10:50	06/22/22 13:38
410-88520-2	HD-COD-SW-7-0/1-0	Water	06/21/22 11:30	06/22/22 13:38
410-88520-3	HD-COD-SW-8-0/1-0	Water	06/21/22 09:20	06/22/22 13:38
410-88520-4	HD-COD-SW-9-0/1-0	Water	06/21/22 13:20	06/22/22 13:38
410-88520-5	HD-COD-SW-13-0/1-0	Water	06/21/22 09:40	06/22/22 13:38
410-88520-6	HD-COD-SW-15-0/1-0	Water	06/21/22 11:55	06/22/22 13:38
410-88520-7	HD-COD-SW-16-0/1-0	Water	06/21/22 10:15	06/22/22 13:38
410-88520-8	HD-COD-SW-17-0/1-0	Water	06/21/22 10:30	06/22/22 13:38
410-88520-9	HD-COD-SW-26-0/1-0	Water	06/21/22 11:15	06/22/22 13:38
410-88520-10	HD-COD-SW-27-0/1-0	Water	06/21/22 11:45	06/22/22 13:38
410-88520-11	HD-COD-SW-28-0/1-0	Water	06/21/22 13:40	06/22/22 13:38
410-88520-12	HD-COD-SW-29-0/1-0	Water	06/21/22 09:05	06/22/22 13:38
410-88520-13	HD-QC1-0/1-1	Water	06/21/22 12:00	06/22/22 13:38
410-88520-14	HD-QC1-0/1-2	Water	06/21/22 00:00	06/22/22 13:38

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-88520-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 213100

Lab Sample ID: IC 410-213100/11 Client Sample ID:

Date Analyzed: 01/10/22 21:33 Lab File ID: GJ10X11.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.91	Incomplete Integration	campbellme	01/11/22 18:05
n-Butanol	8.03	Incomplete Integration	campbellme	01/11/22 18:35

Lab Sample ID: ICIS 410-213100/12 Client Sample ID:

Date Analyzed: 01/10/22 21:55 Lab File ID: GJ10X12.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.93	Incomplete Integration	campbellme	01/11/22 18:07
Acetone	3.52	Split Peak	campbellme	01/11/22 18:08
Methyl acetate	3.90	Incomplete Integration	campbellme	01/11/22 18:08
t-Butyl alcohol-d10 (IS)	4.20	Incomplete Integration	campbellme	01/11/22 18:08
n-Butanol	8.02	Split Peak	campbellme	01/11/22 18:34

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-88520-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 213100

Lab Sample ID: IC 410-213100/13 Client Sample ID:

Date Analyzed: 01/10/22 22:17 Lab File ID: GJ10X13.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.93	Incomplete Integration	campbellme	01/11/22 18:09
1,3-Butadiene	2.25	Incomplete Integration	campbellme	01/11/22 18:09
Acetone	3.52	Incomplete Integration	campbellme	01/11/22 18:09
Methyl acetate	3.93	Incomplete Integration	campbellme	01/11/22 18:10
t-Butyl alcohol-d10 (IS)	4.18	Incomplete Integration	campbellme	01/11/22 18:10

Lab Sample ID: IC 410-213100/14 Client Sample ID:

Date Analyzed: 01/10/22 22:39 Lab File ID: GJ10X14.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.25	Incomplete Integration	campbellme	01/11/22 18:11
Ethyl ether	3.17	Incomplete Integration	campbellme	01/11/22 18:11
Acetone	3.53	Incomplete Integration	campbellme	01/11/22 18:11
Methyl acetate	3.90	Incomplete Integration	campbellme	01/11/22 18:12
n-Butanol	8.03	Split Peak	campbellme	01/11/22 18:34

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-88520-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 213100

Lab Sample ID: IC 410-213100/15 Client Sample ID:

Date Analyzed: 01/10/22 23:01 Lab File ID: GJ10X15.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.12	Incomplete Integration	campbellme	01/11/22 18:12
Vinyl chloride	2.24	Incomplete Integration	campbellme	01/11/22 18:12
1,3-Butadiene	2.25	Incomplete Integration	campbellme	01/11/22 18:13
Acetone	3.53	Incomplete Integration	campbellme	01/11/22 18:13
Methyl acetate	3.89	Incomplete Integration	campbellme	01/11/22 18:13
1,4-Dioxane	8.58	Incomplete Integration	campbellme	01/11/22 18:14

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-88520-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 213100

Lab Sample ID: IC 410-213100/16 Client Sample ID:

Date Analyzed: 01/10/22 23:23 Lab File ID: GJ10X16.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.23	Incomplete Integration	campbellme	01/11/22 18:14
Ethyl ether	3.16	Incomplete Integration	campbellme	01/11/22 18:14
Acetone	3.50	Incomplete Integration	campbellme	01/11/22 18:14
Methyl acetate	3.88	Incomplete Integration	campbellme	01/11/22 18:15
t-Butyl alcohol	4.28	Incomplete Integration	campbellme	01/11/22 18:15
Ethyl t-butyl ether	5.78	Incomplete Integration	campbellme	01/11/22 18:15
cis-1,2-Dichloroethene	6.03	Incomplete Integration	campbellme	01/11/22 18:15
t-Amyl methyl ether	7.39	Incomplete Integration	campbellme	01/11/22 18:15
n-Butanol	8.03	Incomplete Integration	campbellme	01/11/22 18:25
1,4-Dioxane	8.55	Incomplete Integration	campbellme	01/11/22 18:15

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-88520-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 213100

Lab Sample ID: IC 410-213100/17 Client Sample ID:

Date Analyzed: 01/10/22 23:46 Lab File ID: GJ10X17.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.23	Other	campbellme	01/11/22 18:16
Ethyl ether	3.16	Incomplete Integration	campbellme	01/11/22 18:16
Acetone	3.53	Incomplete Integration	campbellme	01/11/22 18:16
Carbon disulfide	3.75	Incomplete Integration	campbellme	01/11/22 18:17
Methyl acetate	3.91	Incomplete Integration	campbellme	01/11/22 18:17
t-Butyl alcohol	4.30	Incomplete Integration	campbellme	01/11/22 18:17
2-Chloro-1,3-butadiene	5.28	Incomplete Integration	campbellme	01/11/22 18:17
Methacrylonitrile	6.29	Incomplete Integration	campbellme	01/11/22 18:17
Isobutyl alcohol	7.14	Incomplete Integration	campbellme	01/11/22 18:17
n-Butanol	8.04	Incomplete Integration	campbellme	01/11/22 18:24
Methylcyclohexane	8.38	Incomplete Integration	campbellme	01/11/22 18:17
1,4-Dioxane	8.59	Incomplete Integration	campbellme	01/11/22 18:17

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-88520-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 213100

Lab Sample ID: ICV 410-213100/18 Client Sample ID:

Date Analyzed: 01/11/22 00:08 Lab File ID: GJ10X18.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.92	Incomplete Integration	campbellme	01/11/22 18:45
Acetone	3.51	Incomplete Integration	campbellme	01/11/22 18:45
Methyl acetate	3.88	Incomplete Integration	campbellme	01/11/22 18:45
1,4-Dioxane	8.57	Incomplete Integration	campbellme	01/11/22 18:46

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-88520-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 270125

Lab Sample ID: 410-88520-14 Client Sample ID: HD-QC1-0/1-2

Date Analyzed: 06/28/22 11:58 Lab File ID: GU28X06.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.09	Invalid Compound ID	kaewrungrueangp	06/29/22 13:52
2-Butanone (MEK)		Invalid Compound ID	kaewrungrueangp	06/29/22 13:53

Lab Sample ID: 410-88520-1 Client Sample ID: HD-COD-SW-6-0/1-0

Date Analyzed: 06/28/22 15:38 Lab File ID: GU28X16.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)	6.03	Peak assignment corrected	kaewrungrueangp	06/29/22 14:04
cis-1,2-Dichloroethene	6.04	Peak assignment corrected	kaewrungrueangp	06/29/22 14:05
Chloroform	6.51	Peak assignment corrected	kaewrungrueangp	06/29/22 14:05

Lab Sample ID: 410-88520-2 Client Sample ID: HD-COD-SW-7-0/1-0

Date Analyzed: 06/28/22 16:01 Lab File ID: GU28X17.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)	6.01	Peak assignment corrected	kaewrungrueangp	06/29/22 14:05
cis-1,2-Dichloroethene	6.01	Peak assignment corrected	kaewrungrueangp	06/29/22 14:05
Chloromethane		Invalid Compound ID	kaewrungrueangp	06/29/22 14:05

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-88520-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 270125

Lab Sample ID: 410-88520-3 Client Sample ID: HD-COD-SW-8-0/1-0

Date Analyzed: 06/28/22 16:23 Lab File ID: GU28X18.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	6.04	Peak assignment corrected	kaewrungrueangp	06/29/22 14:06
Trichloroethene	8.09	Peak assignment corrected	kaewrungrueangp	06/29/22 14:07
Chloromethane		Invalid Compound ID	kaewrungrueangp	06/29/22 14:06

Lab Sample ID: 410-88520-4 Client Sample ID: HD-COD-SW-9-0/1-0

Date Analyzed: 06/28/22 16:45 Lab File ID: GU28X19.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane		Invalid Compound ID	kaewrungrueangp	06/29/22 14:07

Lab Sample ID: 410-88520-5 Client Sample ID: HD-COD-SW-13-0/1-0

Date Analyzed: 06/28/22 17:07 Lab File ID: GU28X20.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.76	Incomplete Integration	kaewrungrueangp	06/29/22 14:08
cis-1,2-Dichloroethene	6.03	Peak assignment corrected	kaewrungrueangp	06/29/22 14:08
Trichloroethene	8.09	Incomplete Integration	kaewrungrueangp	06/29/22 14:09
Chloromethane		Invalid Compound ID	kaewrungrueangp	06/29/22 14:07

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-88520-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 270125

Lab Sample ID: 410-88520-6 Client Sample ID: HD-COD-SW-15-0/1-0

Date Analyzed: 06/28/22 17:29 Lab File ID: GU28X21.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone		Invalid Compound ID	kaewrungrueangp	06/29/22 14:09
Chloromethane		Invalid Compound ID	kaewrungrueangp	06/29/22 14:09

Lab Sample ID: 410-88520-7 Client Sample ID: HD-COD-SW-16-0/1-0

Date Analyzed: 06/28/22 18:35 Lab File ID: GU28X24.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)	6.03	Peak assignment corrected	kaewrungrueangp	06/29/22 14:11
Chloroform	6.52	Peak assignment corrected	kaewrungrueangp	06/29/22 14:11
1,1,1-Trichloroethane		Invalid Compound ID	kaewrungrueangp	06/29/22 14:12
Chloromethane		Invalid Compound ID	kaewrungrueangp	06/29/22 14:11

Lab Sample ID: 410-88520-9 Client Sample ID: HD-COD-SW-26-0/1-0

Date Analyzed: 06/28/22 19:19 Lab File ID: GU28X26.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,1-Trichloroethane		Invalid Compound ID	kaewrungrueangp	06/29/22 14:13
Acetone		Invalid Compound ID	kaewrungrueangp	06/29/22 14:13
Chloromethane		Invalid Compound ID	kaewrungrueangp	06/29/22 14:13

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-88520-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 270125

Lab Sample ID: 410-88520-10 Client Sample ID: HD-COD-SW-27-0/1-0

Date Analyzed: 06/28/22 19:41 Lab File ID: GU28X27.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane		Invalid Compound ID	kaewrungrueangp	06/29/22 14:13

Lab Sample ID: 410-88520-11 Client Sample ID: HD-COD-SW-28-0/1-0

Date Analyzed: 06/28/22 20:03 Lab File ID: GU28X28.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	6.03	Peak assignment corrected	kaewrungrueangp	06/29/22 14:14
Chloroform	6.50	Peak assignment corrected	kaewrungrueangp	06/29/22 14:14
Chloromethane		Invalid Compound ID	kaewrungrueangp	06/29/22 14:14

Lab Sample ID: 410-88520-12 Client Sample ID: HD-COD-SW-29-0/1-0

Date Analyzed: 06/28/22 20:25 Lab File ID: GU28X29.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	6.04	Peak assignment corrected	kaewrungrueangp	06/29/22 14:15
Chloroform	6.52	Peak assignment corrected	kaewrungrueangp	06/29/22 14:15
Chloromethane		Invalid Compound ID	kaewrungrueangp	06/29/22 14:15

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-88520-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 270125

Lab Sample ID: 410-88520-13 Client Sample ID: HD-QC1-0/1-1

Date Analyzed: 06/28/22 20:47 Lab File ID: GU28X30.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone		Invalid Compound ID	kaewrungrueangp	06/29/22 14:15
Chloromethane		Invalid Compound ID	kaewrungrueangp	06/29/22 14:15
Chlorobenzene	11.13	Peak assignment corrected	kaewrungrueangp	06/29/22 14:16

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-88520-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 233459

Lab Sample ID: IC 410-233459/12 Client Sample ID:

Date Analyzed: 03/15/22 01:15 Lab File ID: IM14I31.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	4.01	Incomplete Integration	kephartk	03/16/22 08:17
t-Butyl alcohol-d10 (IS)	4.23	Incomplete Integration	kephartk	03/16/22 08:17

Lab Sample ID: ICIS 410-233459/13 Client Sample ID:

Date Analyzed: 03/15/22 01:36 Lab File ID: IM14I32.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	4.00	Baseline	kephartk	03/16/22 08:18
t-Butyl alcohol-d10 (IS)	4.23	Baseline	kephartk	03/16/22 08:18

Lab Sample ID: IC 410-233459/14 Client Sample ID:

Date Analyzed: 03/15/22 01:58 Lab File ID: IM14I33.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.57	Incomplete Integration	kephartk	03/16/22 08:20
Methyl acetate	4.01	Incomplete Integration	kephartk	03/16/22 08:20
t-Butyl alcohol-d10 (IS)	4.21	Incomplete Integration	kephartk	03/16/22 08:20

Lab Sample ID: IC 410-233459/15 Client Sample ID:

Date Analyzed: 03/15/22 02:19 Lab File ID: IM14I34.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	4.01	Incomplete Integration	kephartk	03/16/22 08:23
t-Butyl alcohol-d10 (IS)	4.21	Incomplete Integration	kephartk	03/16/22 08:24
1,4-Dioxane	8.60	Incomplete Integration	kephartk	03/16/22 08:24

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-88520-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 233459

Lab Sample ID: IC 410-233459/16 Client Sample ID:

Date Analyzed: 03/15/22 02:40 Lab File ID: IM14I35.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.58	Incomplete Integration	kephartk	03/16/22 08:25
Methyl acetate	4.01	Incomplete Integration	kephartk	03/16/22 08:26
t-Butyl alcohol-d10 (IS)	4.23	Incomplete Integration	kephartk	03/16/22 08:26
1,4-Dioxane	8.62	Incomplete Integration	kephartk	03/16/22 08:26

Lab Sample ID: IC 410-233459/17 Client Sample ID:

Date Analyzed: 03/15/22 03:01 Lab File ID: IM14I36.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol-d10 (IS)	4.23	Incomplete Integration	kephartk	03/16/22 08:27
Acrylonitrile	4.57	Incomplete Integration	kephartk	03/16/22 08:27
1,4-Dioxane	8.63	Incomplete Integration	kephartk	03/16/22 08:27

Lab Sample ID: IC 410-233459/18 Client Sample ID:

Date Analyzed: 03/15/22 03:22 Lab File ID: IM14I37.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl iodide	3.75	Incomplete Integration	kephartk	03/16/22 08:28
Acrylonitrile	4.60	Incomplete Integration	kephartk	03/16/22 08:28
trans-1,2-Dichloroethene	4.65	Incomplete Integration	kephartk	03/16/22 08:28
cis-1,2-Dichloroethene	6.14	Incomplete Integration	kephartk	03/16/22 08:28
Methacrylonitrile	6.40	Incomplete Integration	kephartk	03/16/22 08:28
Bromochloromethane	6.46	Incomplete Integration	kephartk	03/16/22 08:28
Trichloroethene	8.18	Incomplete Integration	kephartk	03/16/22 08:29
Methyl methacrylate	8.60	Incomplete Integration	kephartk	03/16/22 08:29
1,4-Dioxane	8.63	Incomplete Integration	kephartk	03/16/22 08:29

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-88520-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 233459

Lab Sample ID: ICV 410-233459/19 Client Sample ID:

Date Analyzed: 03/15/22 03:43 Lab File ID: IM14V01.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrolein	3.40	Incomplete Integration	kephartk	03/16/22 08:30
Methyl acetate	4.00	Incomplete Integration	kephartk	03/16/22 08:30
1,4-Dioxane	8.60	Incomplete Integration	kephartk	03/16/22 08:31

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-88520-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 271084

Lab Sample ID: CCVIS 410-271084/3 Client Sample ID:

Date Analyzed: 06/30/22 10:00 Lab File ID: IU30X02.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	4.01	Incomplete Integration	DVW2	06/30/22 10:43

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_29_826ISS_00028	07/04/22	01/04/22	Methanol, Lot EB679	10 mL	MSV_8260_SS_00563	1 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
					MSV_Cus826_IS_00404	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
.MSV_8260_SS_00563	04/30/24		Restek, Lot A0171410		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.MSV_Cus826_IS_00404	11/30/24		Restek, Lot A0178373		(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_29_826ISS_00034	12/07/22	06/07/22	Methanol, Lot EB679	10 mL	MSV_Cus826_IS_00453	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
.MSV_Cus826_IS_00453	04/30/25		Restek, Lot A0184225		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_29_826ISS_00034	12/07/22	06/07/22	Methanol, Lot EB679	10 mL	MSV_8260_SS_00670	1 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
.MSV_8260_SS_00670	03/31/25		Restek, Lot A0183565		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
MSV_LCS_VOC#1_00035	02/09/22	01/10/22	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00042	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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00045	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00044	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_00042	04/30/24		Restek, Lot A0171815		(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_00045	04/30/24		Restek, Lot A0171837		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00044	01/31/24		Restek, Lot A0167987		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LCS_VOC#1_00044	04/13/22	03/14/22	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00048	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_00054	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00053	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_00048	04/30/24		Restek, Lot A0171815		(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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00054	04/30/24		Restek, Lot A0171837		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00053	01/31/24		Restek, Lot A0167987		(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_00061	07/26/22	06/26/22	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00072	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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00071	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00073	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_00072	04/30/24		Restek, Lot A0171815		(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_00071	04/30/24		Restek, Lot A0171837		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00073	01/31/24		Restek, Lot A0178490		(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_00032	02/09/22	01/10/22	Methanol, Lot EB679	1 mL	MSV_CCV_VOC#1_00047	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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1

SDG No.:

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,4-Dioxane	2500 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							2-Nitropropane	250 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Acrylonitrile	125 ug/mL
							Benzyl chloride	50 ug/mL
							Carbon disulfide	50 ug/mL
							Cyclohexane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropyl ether	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl acetate	50 ug/mL
							Methyl methacrylate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							n-Butanol	4375 ug/mL
							n-Heptane	50 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
							Tetrahydrofuran	250 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_CCV_VOC#3_00046	200 uL	Acrolein	2500.13 ug/mL
							2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					MSV_V_VOA2_00122	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_00047	02/09/22	01/10/22	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00045	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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1

SDG No.:

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSV_MegaMix#2_00045	1 mL	1,1,2-Trichloro-1,2,2-trifluoroethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Chloro-1,3-butadiene	1000 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							2-Nitropropane	5000 ug/mL
							3-Chloro-1-propene	1000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzyl chloride	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL
							Hexane	1000 ug/mL
							Iodomethane	1000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl ether	1000 ug/mL
							Methacrylonitrile	2500 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							n-Butanol	12500 ug/mL
							n-Heptane	1000 ug/mL
							Propionitrile	5000 ug/mL
							Tert-amyl methyl ether	1000 ug/mL
							Tert-butyl ethyl ether	1000 ug/mL
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_MegaMIX#1_00045	02/09/22		Restek, Lot A0171634		(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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL
							2-Chlorotoluene	5000 ug/mL
							4-Chlorotoluene	5000 ug/mL
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00045	02/09/22		Restek, Lot A0173454		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2,3-Trimethylbenzene	5000 ug/mL
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							2-Nitropropane	25000 ug/mL
							3-Chloro-1-propene	5000 ug/mL
							Acrylonitrile	12500 ug/mL
							Benzyl chloride	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Hexane	5000 ug/mL
							Iodomethane	5000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl ether	5000 ug/mL
							Methacrylonitrile	12500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
							n-Butanol	62500 ug/mL
							n-Heptane	5000 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	5000 ug/mL
							Tetrahydrofuran	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
.MSV_CCV_VOC#3_00046	02/09/22	01/10/22	Methanol, Lot EB679	5 mL	MSV_CCV_ACR_00001	0.5 mL	Acrolein	12500.7 ug/mL
					MSV_V_Ketones_00044	1 mL	2-Butanone (MEK)	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone (MIBK)	2500 ug/mL
							Acetone	2500 ug/mL
..MSV_CCV_ACR_00001	02/19/22	12/20/21	Methanol, Lot EB679	10 mL	MSV_VACR_STK_00023	8.413 mL	Acrolein	125007 ug/mL
...MSV_VACR_STK_00023	02/19/22	12/20/21	Methanol, Lot EB679	10 mL	MSV_ACROLEIN_00016	1.596 g	Acrolein	148588 ug/mL
....MSV_ACROLEIN_00016	11/30/22	Chem Service, Lot 12671800			(Purchased Reagent)		Acrolein	0.931 g/g
..MSV_V_Ketones_00044	01/31/24	Restek, Lot A0168313			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.MSV_V_VOA2_00122	02/09/22	01/10/22	Methanol, Lot EB679	5 mL	MSV_V#2B_00251	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_00251	04/30/22	Restek, Lot A0171518			(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Methacrylonitrile	12500 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_LL_#1_826_00038	04/09/22	03/14/22	Methanol, Lot EB679	1 mL	MSV_CCV_VOC#1_00056	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1

SDG No.:

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,4-Dioxane	2500 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							2-Nitropropane	250 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Acrylonitrile	125 ug/mL
							Benzyl chloride	50 ug/mL
							Carbon disulfide	50 ug/mL
							Cyclohexane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropyl ether	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl acetate	50 ug/mL
							Methyl methacrylate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							n-Butanol	4375 ug/mL
							n-Heptane	50 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
							Tetrahydrofuran	250 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_CCV_VOC#3_00055	200 uL	Acrolein	2500.15 ug/mL
							2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
					MSV_V_VOA2_00131	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_00056	04/13/22	03/14/22	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00055	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1

SDG No.:

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00054	1 mL	1,1,2-Trichloro-1,2,2-trifluoroethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Chloro-1,3-butadiene	1000 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							2-Nitropropane	5000 ug/mL
							3-Chloro-1-propene	1000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzyl chloride	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL
							Hexane	1000 ug/mL
							Iodomethane	1000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl ether	1000 ug/mL
							Methacrylonitrile	2500 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							n-Butanol	12500 ug/mL
							n-Heptane	1000 ug/mL
							Propionitrile	5000 ug/mL
							Tert-amyl methyl ether	1000 ug/mL
							Tert-butyl ethyl ether	1000 ug/mL
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_MegaMIX#1_00055	04/13/22		Restek, Lot A0171634		(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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trimethylbenzene	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL
							2-Chlorotoluene	5000 ug/mL
							4-Chlorotoluene	5000 ug/mL
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00054	04/13/22		Restek, Lot A0173454		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2,3-Trimethylbenzene	5000 ug/mL
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							2-Nitropropane	25000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloro-1-propene	5000 ug/mL
							Acrylonitrile	12500 ug/mL
							Benzyl chloride	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Hexane	5000 ug/mL
							Iodomethane	5000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl ether	5000 ug/mL
							Methacrylonitrile	12500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
							n-Butanol	62500 ug/mL
							n-Heptane	5000 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	5000 ug/mL
							Tetrahydrofuran	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
.MSV_CCV_VOC#3_00055	04/09/22	03/14/22	Methanol, Lot EB679	5 mL	MSV_CCV_ACR_00002	0.5 mL	Acrolein	12500.8 ug/mL
					MSV_V_Ketones_00053	1 mL	2-Butanone (MEK)	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone (MIBK)	2500 ug/mL
							Acetone	2500 ug/mL
..MSV_CCV_ACR_00002	04/09/22	02/08/22	Methanol, Lot EB679	10 mL	MSV_VACR_STK_00024	9.222 mL	Acrolein	125008 ug/mL
...MSV_VACR_STK_00024	04/09/22	02/08/22	Methanol, Lot EB679	10 mL	MSV_ACROLEIN_00017	1.456 g	Acrolein	135554 ug/mL
....MSV_ACROLEIN_00017	11/30/22	Chem Service, Lot 12671800			(Purchased Reagent)		Acrolein	0.931 g/g
..MSV_V_Ketones_00053	01/31/24	Restek, Lot A0174287			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.MSV_V_VOA2_00131	04/13/22	03/14/22	Methanol, Lot EB679	5 mL	MSV_V#2B_00260	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_00260	04/30/22	Restek, Lot A0171518			(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Methacrylonitrile	12500 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_LL_#1_826_00047	07/19/22	06/20/22	Methanol, Lot EB679	1 mL	MSV_CCV_VOC#1_00075	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Carbon disulfide	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
					MSV_CCV_VOC#3_00075	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_00075	07/19/22	06/19/22	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00073	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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00073	1 mL	Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
..MSV_MegaMIX#1_00073	07/19/22		Restek, Lot A0171634		(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_00073	07/19/22		Restek, Lot A0173454		(Purchased Reagent)		Carbon disulfide	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
.MSV_CCV_VOC#3_00075	07/19/22	06/19/22	Methanol, Lot EB679	5 mL	MSV_V_Ketones_00071	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_00071	01/31/24		Restek, Lot A0174287		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LL_#2_826_00036	01/25/22	01/10/22	Methanol, Lot EB679	1 mL	MSV_CCV_EE_00001	50 uL	Ethyl ether	49.9999 ug/mL
					MSV_V_PentaCL_00011	10 uL	Pentachloroethane	50 ug/mL
.MSV_CCV_EE_00001	05/29/22	11/29/21	Methanol, Lot EB679	50 mL	MSV_EE_MISCSK_00009	0.999 mL	Ethyl ether	999.999 ug/mL
..MSV_EE_MISCSK_00009	05/29/22	11/29/21	Methanol, Lot EB679	10 mL	MSV_EE_Neat_00006	0.5005 g	Ethyl ether	50050 ug/mL
...MSV_EE_Neat_00006	12/31/25		Chem Service, Lot 12123300		(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_PentaCL_00011	02/04/22		Restek, Lot A0171341		(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_LL_#2_826_00042	03/24/22	03/14/22	Methanol, Lot EB679	1 mL	MSV_CCV_EE_00001	50 uL	Ethyl ether	49.9999 ug/mL
					MSV_V_PentaCL_00013	10 uL	Pentachloroethane	50 ug/mL
.MSV_CCV_EE_00001	05/29/22	11/29/21	Methanol, Lot EB679	50 mL	MSV_EE_MISCSK_00009	0.999 mL	Ethyl ether	999.999 ug/mL
..MSV_EE_MISCSK_00009	05/29/22	11/29/21	Methanol, Lot EB679	10 mL	MSV_EE_Neat_00006	0.5005 g	Ethyl ether	50050 ug/mL
...MSV_EE_Neat_00006	12/31/25		Chem Service, Lot 12123300		(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_PentaCL_00013	04/02/22		Restek, Lot A0171341		(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_LL_GAS826_00059	01/17/22	01/10/22	Methanol, Lot EB679	1 mL	MSV_CCV_GASES_00131	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_00131	01/17/22		Restek, Lot A0172364		(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_00072	03/21/22	03/14/22	Methanol, Lot EB679	1 mL	MSV_CCV_GASES_00158	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_00158	03/21/22		Restek, Lot A0172364		(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00098	07/04/22	06/27/22	Methanol, Lot EB679	1 mL	MSV_CCV_GASES_00290	25 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00290	07/04/22		Restek, Lot A0172364		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LLcentISS_00004	08/22/22	02/22/22	Methanol, Lot EB679	50 mL	MSV_8260_SS_00592	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
					MSV_Cus826_IS_00415	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5 (IS)	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							t-Butyl alcohol-d10 (IS)	250 ug/mL
.MSV_8260_SS_00592	08/22/22		Restek, Lot A0171410		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.MSV_Cus826_IS_00415	08/22/22		Restek, Lot A0178373		(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_QC_Gas826_00060	01/17/22	01/10/22	Methanol, Lot EB679	1 mL	MSV_QC_2K_GAS_00069	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00069	01/17/22		Restek, Lot A0172021		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_QC_Gas826_00070	03/21/22	03/14/22	Methanol, Lot EB679	1 mL	MSV_QC_2K_GAS_00079	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00079	03/21/22		Restek, Lot A0172021		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_QC_Gas826_00087	07/03/22	06/27/22	Methanol, Lot EB679	1 mL	MSV_QC_2K_GAS_00092	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00092	07/03/22	Restek, Lot A0172021			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_V_BFB_00007							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Xylenes, Total	
					MSV_VBFB_STK_00007	0.116 mL	BFB	50.0099 ug/mL
.MSV_VBFB_STK_00007	06/29/22	12/29/21	Methanol, Lot EB679	10 mL	MSV_4BFB_NEAT_00005	1.0778 g	BFB	107780 ug/mL
..MSV_4BFB_NEAT_00005	02/28/25	Chem Service, Lot 11130200			(Purchased Reagent)		BFB	1 g/g
MSV_V_BFB_00008							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Xylenes, Total	
					MSV_VBFB_STK_00008	0.128 mL	BFB	49.8125 ug/mL
.MSV_VBFB_STK_00008	12/27/22	06/27/22	Methanol, Lot EB679	10 mL	MSV_4BFB_NEAT_00008	0.9729 g	BFB	97290 ug/mL
..MSV_4BFB_NEAT_00008	02/28/25	Chem Service, Lot 13233000			(Purchased Reagent)		BFB	1 g/g

Reagent

MSV_4BFB_NEAT_00005

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CERTIFICATE OF ANALYSIS

4-Bromofluorobenzene

CATALOG NUMBER	N-10809-1G
LOT NUMBER	11130200
DATE CERTIFIED	02/03/20
EXPIRATION DATE	02/28/25
CAS NUMBER	460-00-4
MOLECULAR FORMULA	C6H4BrF
MOLECULAR WEIGHT	175.00
STORAGE	Store at room temperature (20 - 25 °C).
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

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

LLR 2032
2-16-21

COA Form
Revision 3 (3/2015)

PJLA Testing

Print Date: 06/07/21

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

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

PJLA
Testing

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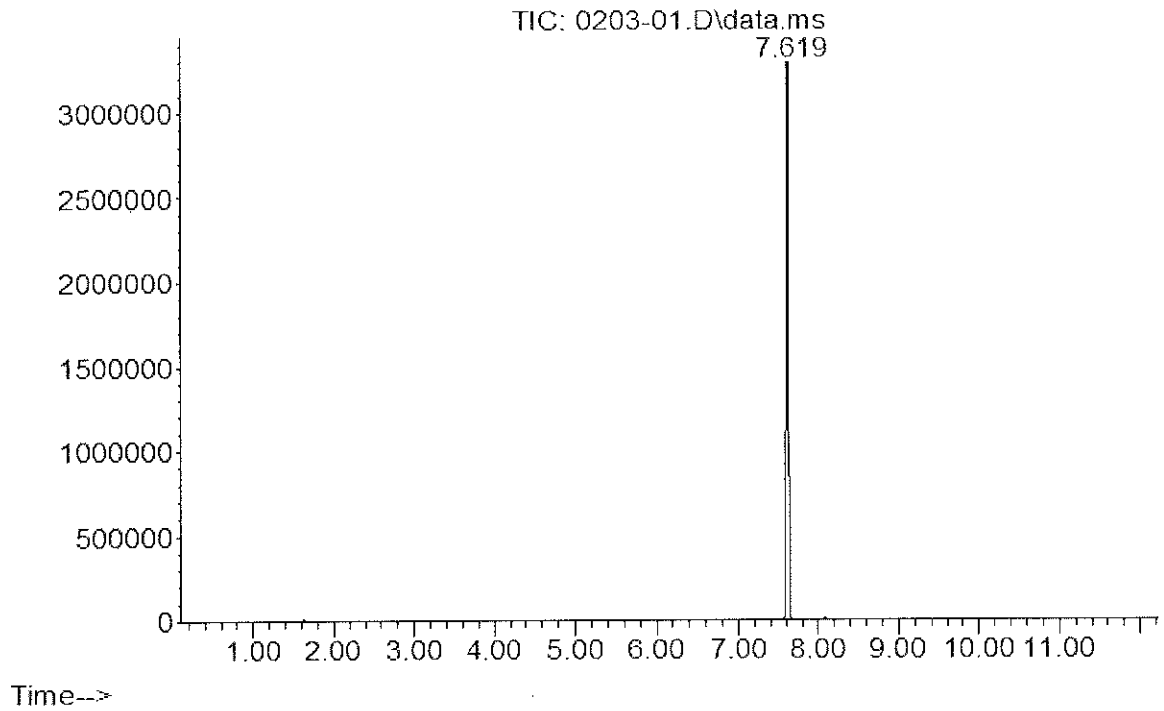
CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-10809-1G
Description:	4-Bromofluorobenzene
Lot Number:	11130200
Expiration Date:	02/28/25



PJLA Testing

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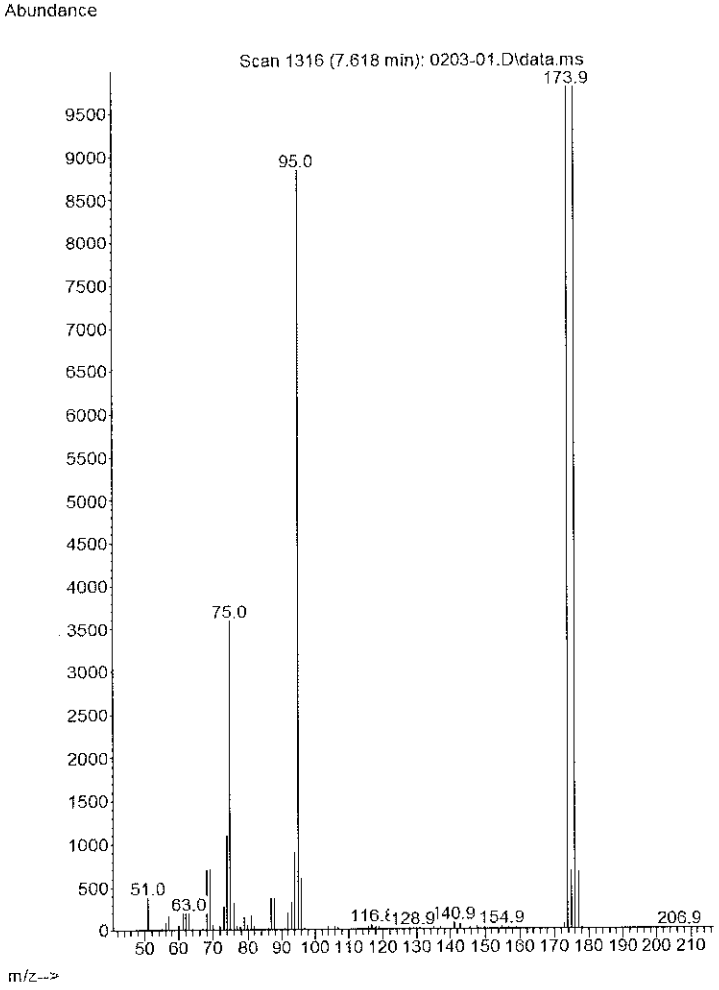
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-10809-1G
Description:	4-Bromofluorobenzene
Lot Number:	11130200
Expiration Date:	02/28/25



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CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-10809-1G
Description:	4-Bromofluorobenzene
Lot Number:	11130200
Expiration Date:	02/28/25

Chem Service Inc Area Percent Report

Data File: D:\msdchem\2020 DATA\0220\0203-01.D
Acq On : 3 Feb 2020 10:08
Operator :
Sample : N-10809
Misc :
ALS Vial : 96

Integration Parameters: autoint1.e
Integrator: ChemStation

DataAcq Meth:METH1.M
Method : D:\msdchem\2020 DATA\0120\0122-03.D\M-CS5242M2.M

Signal : TIC: 0203-01.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	7.619	1306	1316	1331	BB	3424525	65045319	100.00%	100.000%

Sum of corrected areas: 65045319

M-CS5242M2.M Mon Feb 03 10:28:54 2020

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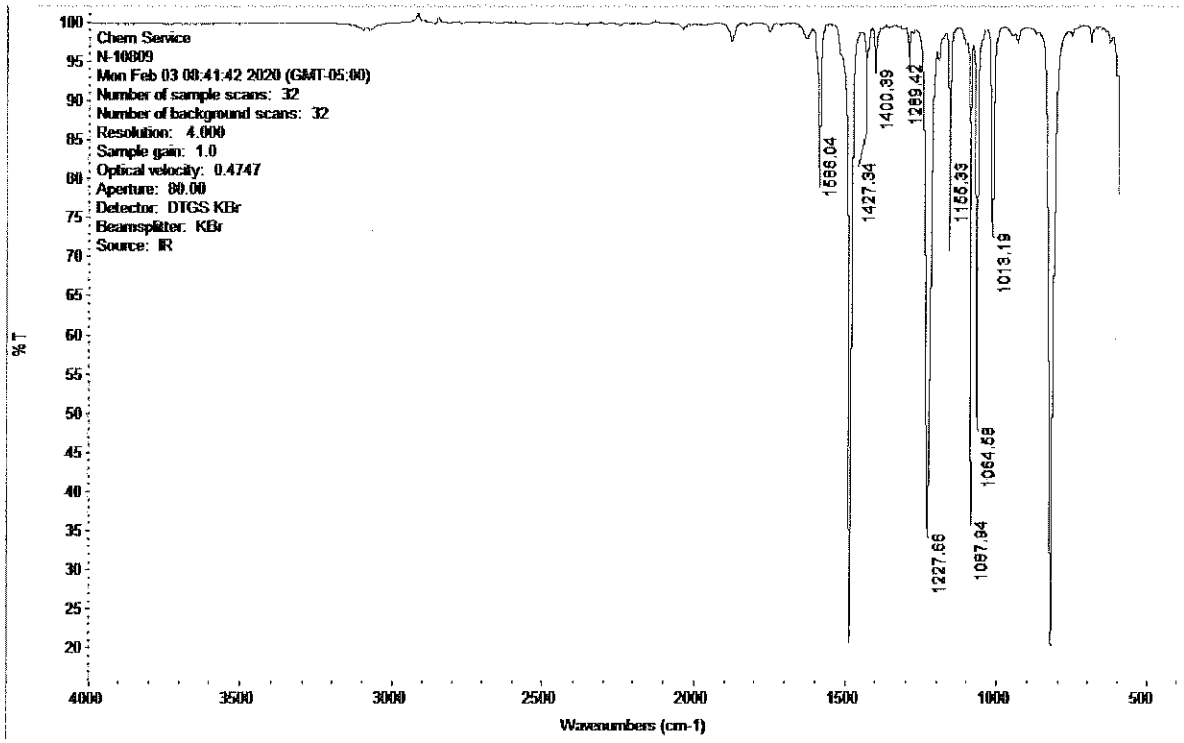
CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-10809-1G
Description:	4-Bromofluorobenzene
Lot Number:	11130200
Expiration Date:	02/28/25



PJLA Testing

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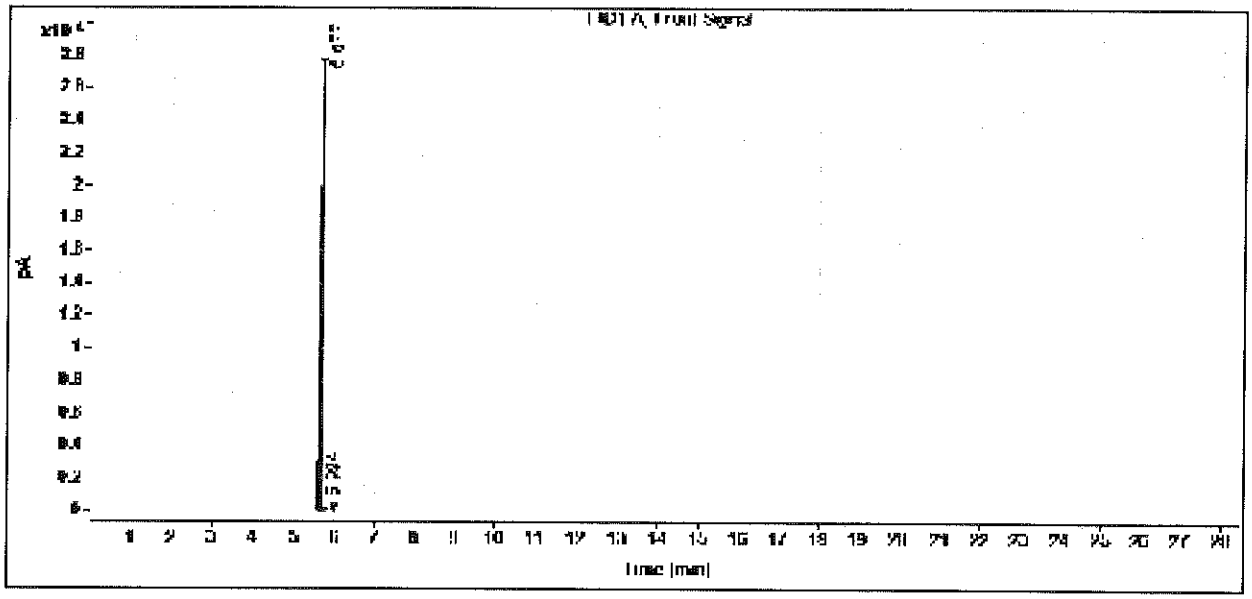
CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2020 DATA\0220\013120 2020-01-31 16-11-28\141F0404.D

Sample name: N-10809

Instrument:	GC 1	**Sample type:**	Sample
Injection date:	1/31/2020 10:29:42 PM	**Location:**	Vial 141
Acq. method:	SCREEN.M	**Injection volume:**	1.0uL
Column name:	Rxl-624Sil (30m x 0.32mm x 1.8um)		



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
5.677	BB S	0.0413	82400.6016	27241.2129	99.7369
5.994	VB	0.0296	217.3697	117.5844	0.2631
		Sum	82617.9712		

PJLA Testing

Reagent

MSV_8260_SS_00592

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 55671 **Lot No.:** A0171410

Description : 8260A Surrogate Mix

8260A Surrogate Mix 2,500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 0012016) **Purity** 99%	2,509.0 µg/mL	+/- 14.7242 µg/mL +/- 140.6914 µg/mL +/- 143.9827 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot PR-29377) **Purity** 99%	2,503.0 µg/mL	+/- 14.6890 µg/mL +/- 140.3549 µg/mL +/- 143.6384 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot PR-31750) **Purity** 99%	2,501.5 µg/mL	+/- 14.6802 µg/mL +/- 140.2708 µg/mL +/- 143.5523 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KO) **Purity** 99%	2,520.0 µg/mL	+/- 14.7888 µg/mL +/- 141.3082 µg/mL +/- 144.6140 µg/mL	Gravimetric Unstressed Stressed

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

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

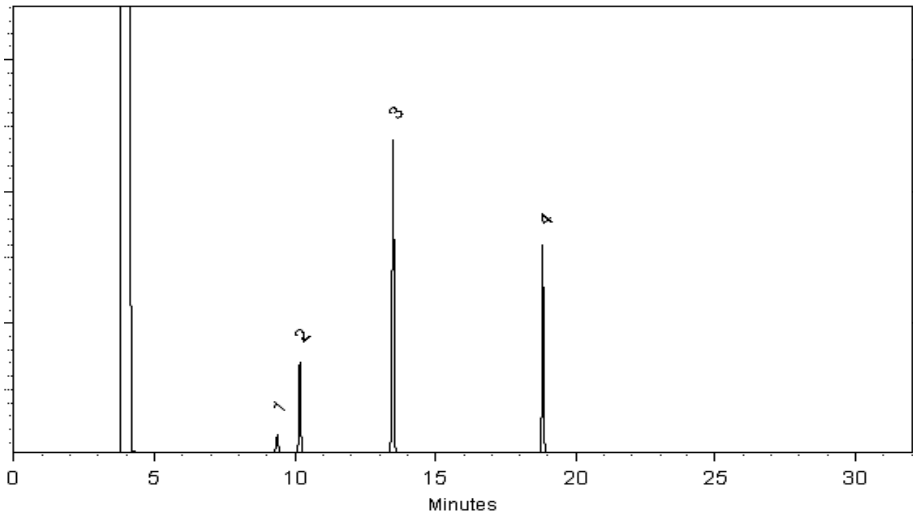
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Sam Moodler - Operations Tech I

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

Alexis Shelow - Operations Tech I

Date Passed: 19-Apr-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_ACROLEIN_00016

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
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CERTIFICATE OF ANALYSIS

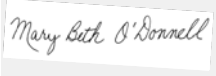
Acrolein

CATALOG NUMBER	RPN-11030-1G
LOT NUMBER	12671800
DATE CERTIFIED	11/30/21
EXPIRATION DATE	11/30/22
CAS NUMBER	107-02-8
MOLECULAR FORMULA	C3H4O
MOLECULAR WEIGHT	56.06
STORAGE	Refrigerator storage (2 - 8 °C)
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.
NOTES	Contains water and hydroquinone as an inhibitor.

Analytical Test	Value
% PURITY (GC/TCD)	93.1
% WATER (KARL FISCHER)	3.7

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

Certified By:



Mary Beth O'Donnell
CSM/TC

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

PJLA Testing

PJLA Reference Material Producer

COA Form
Revision 3 (3/2015)

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CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2021 DATA\1121\SIG2022966.D

Sample name: Acrolein

Instrument: GC 1
Injection date: 11/30/2021 8:07:19 AM
Acq. method: N-10129-TCD.M
Column name: DB-624 (30m x 0.53mm x 3.0um)

Sample type: Sample
Location: Vial 1
Injection volume: 1.0uL

Signal: TCD2 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
1.894	BB	0.0219	75.2808	55.4051	3.7452
2.128	BB	0.0203	27.3468	20.9134	1.3605
3.116	BB	0.0328	1873.1121	917.3733	93.1873
9.648	BB	0.0286	23.4982	12.6856	1.1690
15.638	BB	0.0274	10.8118	6.1875	0.5379
		Sum	2010.0498		

Reagent

MSV_ACROLEIN_00017

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1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

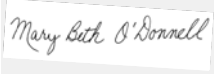
Acrolein

CATALOG NUMBER	RPN-11030-1G
LOT NUMBER	12671800
DATE CERTIFIED	11/30/21
EXPIRATION DATE	11/30/22
CAS NUMBER	107-02-8
MOLECULAR FORMULA	C3H4O
MOLECULAR WEIGHT	56.06
STORAGE	Refrigerator storage (2 - 8 °C)
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.
NOTES	Contains water and hydroquinone as an inhibitor.

Analytical Test	Value
% PURITY (GC/TCD)	93.1
% WATER (KARL FISCHER)	3.7

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

Certified By:



Mary Beth O'Donnell
CSM/TC

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

PJLA Testing

PJLA Reference Material Producer

COA Form
Revision 3 (3/2015)

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CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2021 DATA\1121\SIG2022966.D

Sample name: Acrolein

Instrument:	GC 1	**Sample type:**	Sample
Injection date:	11/30/2021 8:07:19 AM	**Location:**	Vial 1
Acq. method:	N-10129-TCD.M	**Injection volume:**	1.0uL
Column name:	DB-624 (30m x 0.53mm x 3.0um)		

Signal: TCD2 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
1.894	BB	0.0219	75.2808	55.4051	3.7452
2.128	BB	0.0203	27.3468	20.9134	1.3605
3.116	BB	0.0328	1873.1121	917.3733	93.1873
9.648	BB	0.0286	23.4982	12.6856	1.1690
15.638	BB	0.0274	10.8118	6.1875	0.5379
		Sum	2010.0498		

Reagent

MSV_CCV_GASES_00131

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577488 **Lot No.:** A0172364

Description : Custom Gases Standard

Custom Gases Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

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

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,001.0 µg/mL	+/- 15.5104 µg/mL	Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/- 112.6642 µg/mL	Unstressed
	Purity 99%		+/- 115.2788 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,000.2 µg/mL	+/- 19.3792 µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/- 113.2161 µg/mL	Unstressed
	Purity 99%		+/- 115.8161 µg/mL	Stressed
3	Vinyl chloride	2,003.2 µg/mL	+/- 20.1104 µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/- 113.5093 µg/mL	Unstressed
	Purity 99%		+/- 116.1105 µg/mL	Stressed
4	1,3-Butadiene	1,999.6 µg/mL	+/- 14.5225 µg/mL	Gravimetric
	CAS # 106-99-0 (Lot 00019375)		+/- 112.4545 µg/mL	Unstressed
	Purity 99%		+/- 115.0702 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,002.8 µg/mL	+/- 14.8201 µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/- 112.6669 µg/mL	Unstressed
	Purity 99%		+/- 115.2859 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,001.0 µg/mL	+/- 14.9955 µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/- 112.5912 µg/mL	Unstressed
	Purity 99%		+/- 115.2073 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 11.6282 µg/mL	Gravimetric
	CAS # 75-43-4 (Lot 11778600)		+/- 112.1380 µg/mL	Unstressed
	Purity 99%		+/- 114.7619 µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCJ8658)			+/-	112.1380	µg/mL	Unstressed
	Purity 99%				+/-	114.7619	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,000.2	µg/mL	+/-	17.2773	µg/mL	Gravimetric
	CAS # 354-23-4	(Lot Q9B-64)			+/-	112.8726	µg/mL	Unstressed
	Purity 99%				+/-	115.4802	µg/mL	Stressed

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

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

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

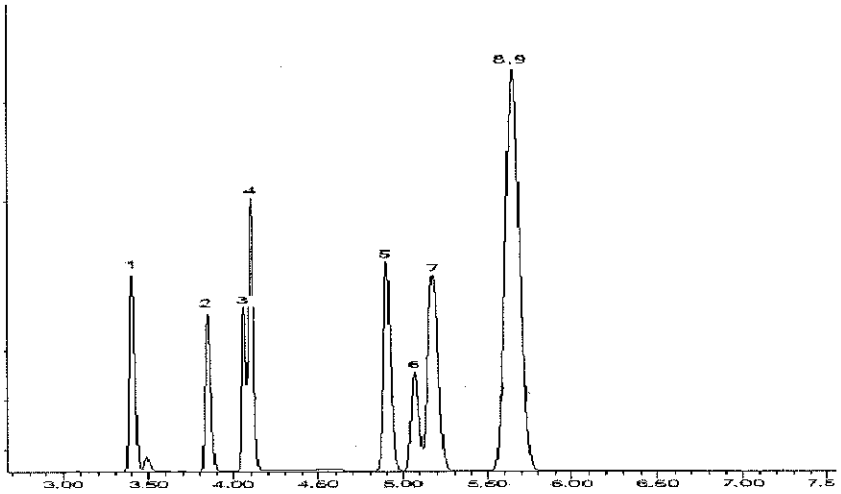
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.

Tom Suckar - Mix Technician

Date Mixed: 13-May-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 17-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_CCV_GASES_00158

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577488 **Lot No.:** A0172364

Description : Custom Gases Standard

Custom Gases Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

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

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,001.0 µg/mL	+/- 15.5104 µg/mL	Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/- 112.6642 µg/mL	Unstressed
	Purity 99%		+/- 115.2788 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,000.2 µg/mL	+/- 19.3792 µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/- 113.2161 µg/mL	Unstressed
	Purity 99%		+/- 115.8161 µg/mL	Stressed
3	Vinyl chloride	2,003.2 µg/mL	+/- 20.1104 µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/- 113.5093 µg/mL	Unstressed
	Purity 99%		+/- 116.1105 µg/mL	Stressed
4	1,3-Butadiene	1,999.6 µg/mL	+/- 14.5225 µg/mL	Gravimetric
	CAS # 106-99-0 (Lot 00019375)		+/- 112.4545 µg/mL	Unstressed
	Purity 99%		+/- 115.0702 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,002.8 µg/mL	+/- 14.8201 µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/- 112.6669 µg/mL	Unstressed
	Purity 99%		+/- 115.2859 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,001.0 µg/mL	+/- 14.9955 µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/- 112.5912 µg/mL	Unstressed
	Purity 99%		+/- 115.2073 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 11.6282 µg/mL	Gravimetric
	CAS # 75-43-4 (Lot 11778600)		+/- 112.1380 µg/mL	Unstressed
	Purity 99%		+/- 114.7619 µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCJ8658)			+/-	112.1380	µg/mL	Unstressed
	Purity 99%				+/-	114.7619	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,000.2	µg/mL	+/-	17.2773	µg/mL	Gravimetric
	CAS # 354-23-4	(Lot Q9B-64)			+/-	112.8726	µg/mL	Unstressed
	Purity 99%				+/-	115.4802	µg/mL	Stressed

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

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

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

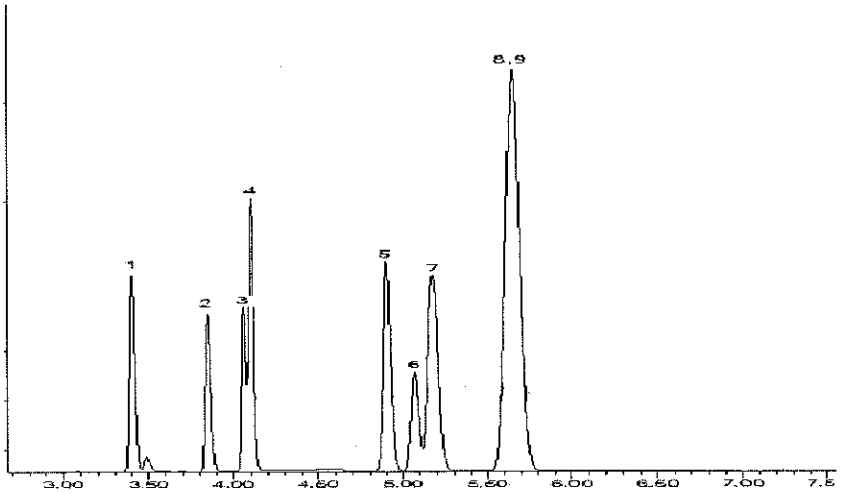
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.

Tom Suckar - Mix Technician

Date Mixed: 13-May-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 17-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

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Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577488 **Lot No.:** A0172364

Description : Custom Gases Standard

Custom Gases Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

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

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,001.0 µg/mL	+/- 15.5104 µg/mL	Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/- 112.6642 µg/mL	Unstressed
	Purity 99%		+/- 115.2788 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,000.2 µg/mL	+/- 19.3792 µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/- 113.2161 µg/mL	Unstressed
	Purity 99%		+/- 115.8161 µg/mL	Stressed
3	Vinyl chloride	2,003.2 µg/mL	+/- 20.1104 µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/- 113.5093 µg/mL	Unstressed
	Purity 99%		+/- 116.1105 µg/mL	Stressed
4	1,3-Butadiene	1,999.6 µg/mL	+/- 14.5225 µg/mL	Gravimetric
	CAS # 106-99-0 (Lot 00019375)		+/- 112.4545 µg/mL	Unstressed
	Purity 99%		+/- 115.0702 µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,002.8 µg/mL	+/- 14.8201 µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/- 112.6669 µg/mL	Unstressed
	Purity 99%		+/- 115.2859 µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,001.0 µg/mL	+/- 14.9955 µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/- 112.5912 µg/mL	Unstressed
	Purity 99%		+/- 115.2073 µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 11.6282 µg/mL	Gravimetric
	CAS # 75-43-4 (Lot 11778600)		+/- 112.1380 µg/mL	Unstressed
	Purity 99%		+/- 114.7619 µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-69-4	(Lot MKCJ8658)			+/-	112.1380	µg/mL	Unstressed
	Purity 99%				+/-	114.7619	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,000.2	µg/mL	+/-	17.2773	µg/mL	Gravimetric
	CAS # 354-23-4	(Lot Q9B-64)			+/-	112.8726	µg/mL	Unstressed
	Purity 99%				+/-	115.4802	µg/mL	Stressed

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

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

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

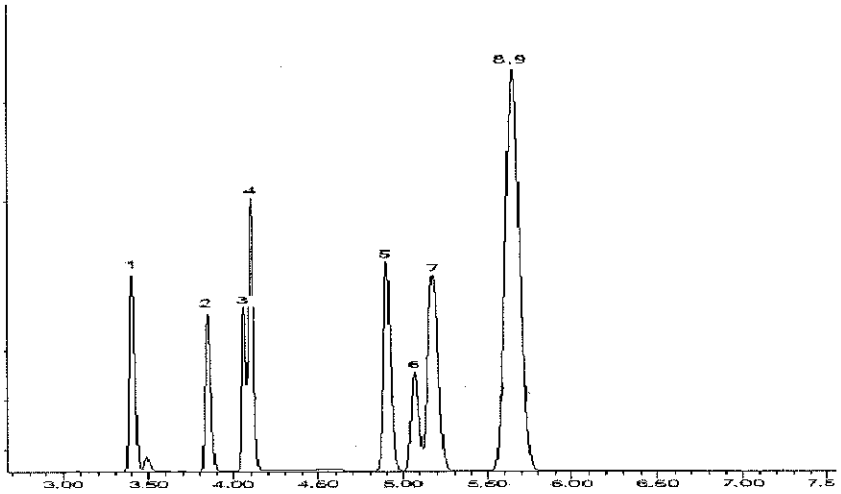
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.

Tom Suckar - Mix Technician

Date Mixed: 13-May-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 17-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 558267 **Lot No.:** A0178373

Description : Custom 8260A IS Mix

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

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

Expiration Date : November 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Methyl-2-propanol-d10	12,494.0 µg/mL	+/- 73.3218 µg/mL	Gravimetric
	CAS # 53001-22-2 (Lot I-433)		+/- 267.6837 µg/mL	Unstressed
	Purity 99%		+/- 275.4550 µg/mL	Stressed
2	Fluorobenzene	2,508.0 µg/mL	+/- 14.8968 µg/mL	Gravimetric
	CAS # 462-06-6 (Lot BCBZ5549)		+/- 53.7830 µg/mL	Unstressed
	Purity 99%		+/- 55.3416 µg/mL	Stressed
3	Chlorobenzene-d5	2,514.0 µg/mL	+/- 14.9324 µg/mL	Gravimetric
	CAS # 3114-55-4 (Lot PR-29571)		+/- 53.9117 µg/mL	Unstressed
	Purity 99%		+/- 55.4740 µg/mL	Stressed
4	1,4-Dichlorobenzene-d4	2,488.0 µg/mL	+/- 14.7780 µg/mL	Gravimetric
	CAS # 3855-82-1 (Lot PR-30447)		+/- 53.3541 µg/mL	Unstressed
	Purity 99%		+/- 54.9003 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)

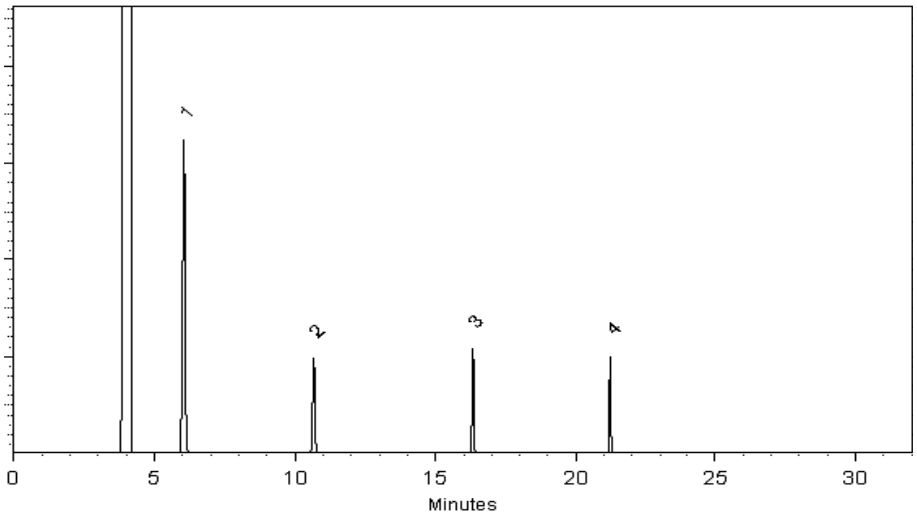
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Morgan Craighead - Mix Technician

Date Mixed: 10-Nov-2021 **Balance:** B251644995

Clara Windle - Operations Technician I

Date Passed: 12-Nov-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Ethyl ether

CATALOG NUMBER	N-11897-1G
LOT NUMBER	12123300
DATE CERTIFIED	12/04/20
EXPIRATION DATE	12/31/25
CAS NUMBER	60-29-7
MOLECULAR FORMULA	C4H10O
MOLECULAR WEIGHT	74.12
STORAGE	Refrigerator storage (2 - 8 °C)
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

Analytical Test	Value
% PURITY (GC/TCD)	99.5

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

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

COA Form
Revision 3 (3/2015)

PJLA Testing
Accreditation #63520

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CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2020 DATA\1220\SIG2022771.D

Sample name: Ethylether

Instrument: GC 1
Injection date: 12/4/2020 10:52:03 AM
Acq. method: TCD SCREEN.M
Column name: DB-624 (30m x 0.53mm x 3.0um)

Sample type: Sample
Location: Vial 21
Injection volume: 1.0uL

Signal: TCD2 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
1.206	BB	0.0364	16.2548	6.6698	0.0305
1.560	BB	0.0278	55.8996	29.9782	0.1049
1.892	BB	0.0328	64.6527	28.1084	0.1214
2.224	BB	0.0347	9.6188	4.3673	0.0181
2.545	BB S	0.0880	53125.6797	7942.5742	99.7251
		Sum	53272.1055		

PJLA Testing

Reagent

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577493 **Lot No.:** A0171815

Description : Custom VOC MegaMix®.SEC #1 Standard

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

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

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-Dichloroethene **CAS #** 75-35-4.SEC (Lot 9201700) **Purity** 99%	1,003.8 µg/mL	+/- 7.1628 µg/mL +/- 56.4323 µg/mL +/- 57.7457 µg/mL	Gravimetric Unstressed Stressed
2	Methylene chloride (dichloromethane) **CAS #** 75-09-2.SEC (Lot FGM02) **Purity** 99%	1,001.8 µg/mL	+/- 7.1486 µg/mL +/- 56.3199 µg/mL +/- 57.6306 µg/mL	Gravimetric Unstressed Stressed
3	trans-1,2-Dichloroethene **CAS #** 156-60-5.SEC (Lot TS5UB) **Purity** 99%	1,000.3 µg/mL	+/- 7.1382 µg/mL +/- 56.2383 µg/mL +/- 57.5472 µg/mL	Gravimetric Unstressed Stressed
4	1,1-Dichloroethane **CAS #** 75-34-3.SEC (Lot 7482000) **Purity** 99%	1,002.0 µg/mL	+/- 7.1503 µg/mL +/- 56.3339 µg/mL +/- 57.6450 µg/mL	Gravimetric Unstressed Stressed
5	2,2-Dichloropropane **CAS #** 594-20-7.SEC (Lot I7E8E) **Purity** 98%	1,000.0 µg/mL	+/- 7.1026 µg/mL +/- 56.2188 µg/mL +/- 57.5274 µg/mL	Gravimetric Unstressed Stressed
6	cis-1,2-Dichloroethene **CAS #** 156-59-2.SEC (Lot YZO5O) **Purity** 99%	1,000.1 µg/mL	+/- 7.1028 µg/mL +/- 56.2207 µg/mL +/- 57.5294 µg/mL	Gravimetric Unstressed Stressed
7	Chloroform **CAS #** 67-66-3.SEC (Lot 1297547) **Purity** 99%	1,000.8 µg/mL	+/- 7.1414 µg/mL +/- 56.2636 µg/mL +/- 57.5731 µg/mL	Gravimetric Unstressed Stressed

8	Bromochloromethane		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 8529200)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
9	1,1,1-trichloroethane		1,000.3	µg/mL	+/-	7.1383	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	56.2391	µg/mL	Unstressed
	Purity 98%				+/-	57.5479	µg/mL	Stressed
10	1,1-Dichloropropene		1,002.5	µg/mL	+/-	7.1204	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 8541600)			+/-	56.3597	µg/mL	Unstressed
	Purity 95%				+/-	57.6716	µg/mL	Stressed
11	Carbon tetrachloride		1,000.8	µg/mL	+/-	7.1414	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	56.2636	µg/mL	Unstressed
	Purity 99%				+/-	57.5731	µg/mL	Stressed
12	1,2-Dichloroethane		1,000.6	µg/mL	+/-	7.1407	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot 00016165)			+/-	56.2576	µg/mL	Unstressed
	Purity 99%				+/-	57.5669	µg/mL	Stressed
13	Benzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
14	Trichloroethene		1,000.9	µg/mL	+/-	7.1423	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	56.2708	µg/mL	Unstressed
	Purity 99%				+/-	57.5804	µg/mL	Stressed
15	1,2-Dichloropropane		1,000.1	µg/mL	+/-	7.1371	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)			+/-	56.2293	µg/mL	Unstressed
	Purity 99%				+/-	57.5380	µg/mL	Stressed
16	Bromodichloromethane		1,000.8	µg/mL	+/-	7.1418	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)			+/-	56.2662	µg/mL	Unstressed
	Purity 99%				+/-	57.5757	µg/mL	Stressed
17	Dibromomethane		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot MOKKJ)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
18	cis-1,3-Dichloropropene		1,000.9	µg/mL	+/-	7.1425	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/-	56.2723	µg/mL	Unstressed
	Purity 98%				+/-	57.5819	µg/mL	Stressed
19	Toluene		1,000.0	µg/mL	+/-	7.1026	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	56.2193	µg/mL	Unstressed
	Purity 99%				+/-	57.5279	µg/mL	Stressed
20	trans-1,3-Dichloropropene		1,002.1	µg/mL	+/-	7.1513	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	56.3417	µg/mL	Unstressed
	Purity 96%				+/-	57.6530	µg/mL	Stressed
21	1,1,2-Trichloroethane		1,001.3	µg/mL	+/-	7.1450	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)			+/-	56.2917	µg/mL	Unstressed
	Purity 99%				+/-	57.6018	µg/mL	Stressed
22	1,3-Dichloropropane		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
23	Tetrachloroethene		1,000.2	µg/mL	+/-	7.1378	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	56.2350	µg/mL	Unstressed
	Purity 99%				+/-	57.5437	µg/mL	Stressed

24	Dibromochloromethane		1,000.5	µg/mL	+/-	7.1396	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)			+/-	56.2489	µg/mL	Unstressed
	Purity 97%				+/-	57.5580	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		1,000.1	µg/mL	+/-	7.1032	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 7511900)			+/-	56.2235	µg/mL	Unstressed
	Purity 99%				+/-	57.5322	µg/mL	Stressed
26	Chlorobenzene		1,001.4	µg/mL	+/-	7.1460	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	56.2995	µg/mL	Unstressed
	Purity 99%				+/-	57.6098	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		1,000.1	µg/mL	+/-	7.1032	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)			+/-	56.2235	µg/mL	Unstressed
	Purity 99%				+/-	57.5322	µg/mL	Stressed
28	Ethylbenzene		1,000.2	µg/mL	+/-	7.1035	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)			+/-	56.2263	µg/mL	Unstressed
	Purity 99%				+/-	57.5351	µg/mL	Stressed
29	m-Xylene		1,000.2	µg/mL	+/-	7.1035	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot 7ZV6F)			+/-	56.2263	µg/mL	Unstressed
	Purity 99%				+/-	57.5351	µg/mL	Stressed
30	p-Xylene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot D6UOA)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
31	o-Xylene		1,000.1	µg/mL	+/-	7.1028	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)			+/-	56.2207	µg/mL	Unstressed
	Purity 99%				+/-	57.5294	µg/mL	Stressed
32	Styrene		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
33	Isopropylbenzene (cumene)		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot JN4EC)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
34	Bromoform		1,001.7	µg/mL	+/-	7.1485	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 9170700)			+/-	56.3193	µg/mL	Unstressed
	Purity 99%				+/-	57.6300	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		1,001.6	µg/mL	+/-	7.1478	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot BCCB0724)			+/-	56.3139	µg/mL	Unstressed
	Purity 98%				+/-	57.6245	µg/mL	Stressed
36	1,2,3-Trichloropropane		1,000.0	µg/mL	+/-	7.1026	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)			+/-	56.2193	µg/mL	Unstressed
	Purity 99%				+/-	57.5279	µg/mL	Stressed
37	n-Propylbenzene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
38	Bromobenzene		1,000.2	µg/mL	+/-	7.1034	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 8DKWJ)			+/-	56.2256	µg/mL	Unstressed
	Purity 99%				+/-	57.5344	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		1,000.1	µg/mL	+/-	7.1028	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot TOOOF)			+/-	56.2207	µg/mL	Unstressed
	Purity 99%				+/-	57.5294	µg/mL	Stressed

40	2-Chlorotoluene		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot BRHPM)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
41	4-Chlorotoluene		1,000.1	µg/mL	+/-	7.1030	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot S5SKD)			+/-	56.2221	µg/mL	Unstressed
	Purity 99%				+/-	57.5308	µg/mL	Stressed
42	tert-Butylbenzene		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
44	sec-Butylbenzene		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot O4HRF)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
45	4-Isopropyltoluene (p-cymene)		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 8380000)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
46	1,3-Dichlorobenzene		1,000.1	µg/mL	+/-	7.1365	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	56.2251	µg/mL	Unstressed
	Purity 99%				+/-	57.5337	µg/mL	Stressed
47	1,4-Dichlorobenzene		1,002.5	µg/mL	+/-	7.1538	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot YWKDC-MK)			+/-	56.3612	µg/mL	Unstressed
	Purity 99%				+/-	57.6729	µg/mL	Stressed
48	n-Butylbenzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
49	1,2-Dichlorobenzene		1,001.6	µg/mL	+/-	7.1475	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	56.3114	µg/mL	Unstressed
	Purity 99%				+/-	57.6220	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot Q135-105)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot IGLFA)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
52	Hexachlorobutadiene		1,000.8	µg/mL	+/-	7.1079	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 8532700)			+/-	56.2614	µg/mL	Unstressed
	Purity 97%				+/-	57.5709	µg/mL	Stressed
53	Naphthalene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot SKZ5N)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		1,000.7	µg/mL	+/-	7.1076	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/-	56.2588	µg/mL	Unstressed
	Purity 98%				+/-	57.5683	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)

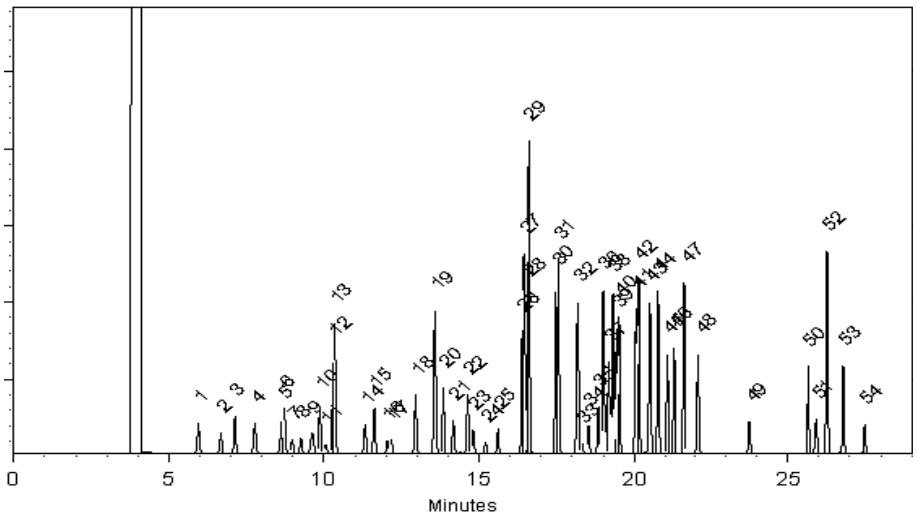
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Bradley Meyer - Mix Technician

Date Mixed: 28-Apr-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 30-Apr-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX1SEC_00048

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577493 **Lot No.:** A0171815

Description : Custom VOC MegaMix®.SEC #1 Standard

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

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

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-Dichloroethene	1,003.8 µg/mL	+/- 7.1628 µg/mL	Gravimetric
	CAS # 75-35-4.SEC (Lot 9201700)		+/- 56.4323 µg/mL	Unstressed
	Purity 99%		+/- 57.7457 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	1,001.8 µg/mL	+/- 7.1486 µg/mL	Gravimetric
	CAS # 75-09-2.SEC (Lot FGM02)		+/- 56.3199 µg/mL	Unstressed
	Purity 99%		+/- 57.6306 µg/mL	Stressed
3	trans-1,2-Dichloroethene	1,000.3 µg/mL	+/- 7.1382 µg/mL	Gravimetric
	CAS # 156-60-5.SEC (Lot TS5UB)		+/- 56.2383 µg/mL	Unstressed
	Purity 99%		+/- 57.5472 µg/mL	Stressed
4	1,1-Dichloroethane	1,002.0 µg/mL	+/- 7.1503 µg/mL	Gravimetric
	CAS # 75-34-3.SEC (Lot 7482000)		+/- 56.3339 µg/mL	Unstressed
	Purity 99%		+/- 57.6450 µg/mL	Stressed
5	2,2-Dichloropropane	1,000.0 µg/mL	+/- 7.1026 µg/mL	Gravimetric
	CAS # 594-20-7.SEC (Lot I7E8E)		+/- 56.2188 µg/mL	Unstressed
	Purity 98%		+/- 57.5274 µg/mL	Stressed
6	cis-1,2-Dichloroethene	1,000.1 µg/mL	+/- 7.1028 µg/mL	Gravimetric
	CAS # 156-59-2.SEC (Lot YZO5O)		+/- 56.2207 µg/mL	Unstressed
	Purity 99%		+/- 57.5294 µg/mL	Stressed
7	Chloroform	1,000.8 µg/mL	+/- 7.1414 µg/mL	Gravimetric
	CAS # 67-66-3.SEC (Lot 1297547)		+/- 56.2636 µg/mL	Unstressed
	Purity 99%		+/- 57.5731 µg/mL	Stressed

8	Bromochloromethane		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 8529200)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
9	1,1,1-trichloroethane		1,000.3	µg/mL	+/-	7.1383	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	56.2391	µg/mL	Unstressed
	Purity 98%				+/-	57.5479	µg/mL	Stressed
10	1,1-Dichloropropene		1,002.5	µg/mL	+/-	7.1204	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 8541600)			+/-	56.3597	µg/mL	Unstressed
	Purity 95%				+/-	57.6716	µg/mL	Stressed
11	Carbon tetrachloride		1,000.8	µg/mL	+/-	7.1414	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	56.2636	µg/mL	Unstressed
	Purity 99%				+/-	57.5731	µg/mL	Stressed
12	1,2-Dichloroethane		1,000.6	µg/mL	+/-	7.1407	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot 00016165)			+/-	56.2576	µg/mL	Unstressed
	Purity 99%				+/-	57.5669	µg/mL	Stressed
13	Benzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
14	Trichloroethene		1,000.9	µg/mL	+/-	7.1423	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	56.2708	µg/mL	Unstressed
	Purity 99%				+/-	57.5804	µg/mL	Stressed
15	1,2-Dichloropropane		1,000.1	µg/mL	+/-	7.1371	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)			+/-	56.2293	µg/mL	Unstressed
	Purity 99%				+/-	57.5380	µg/mL	Stressed
16	Bromodichloromethane		1,000.8	µg/mL	+/-	7.1418	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)			+/-	56.2662	µg/mL	Unstressed
	Purity 99%				+/-	57.5757	µg/mL	Stressed
17	Dibromomethane		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot MOKKJ)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
18	cis-1,3-Dichloropropene		1,000.9	µg/mL	+/-	7.1425	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/-	56.2723	µg/mL	Unstressed
	Purity 98%				+/-	57.5819	µg/mL	Stressed
19	Toluene		1,000.0	µg/mL	+/-	7.1026	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	56.2193	µg/mL	Unstressed
	Purity 99%				+/-	57.5279	µg/mL	Stressed
20	trans-1,3-Dichloropropene		1,002.1	µg/mL	+/-	7.1513	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	56.3417	µg/mL	Unstressed
	Purity 96%				+/-	57.6530	µg/mL	Stressed
21	1,1,2-Trichloroethane		1,001.3	µg/mL	+/-	7.1450	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)			+/-	56.2917	µg/mL	Unstressed
	Purity 99%				+/-	57.6018	µg/mL	Stressed
22	1,3-Dichloropropane		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
23	Tetrachloroethene		1,000.2	µg/mL	+/-	7.1378	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	56.2350	µg/mL	Unstressed
	Purity 99%				+/-	57.5437	µg/mL	Stressed

24	Dibromochloromethane		1,000.5	µg/mL	+/-	7.1396	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)			+/-	56.2489	µg/mL	Unstressed
	Purity 97%				+/-	57.5580	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		1,000.1	µg/mL	+/-	7.1032	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 7511900)			+/-	56.2235	µg/mL	Unstressed
	Purity 99%				+/-	57.5322	µg/mL	Stressed
26	Chlorobenzene		1,001.4	µg/mL	+/-	7.1460	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	56.2995	µg/mL	Unstressed
	Purity 99%				+/-	57.6098	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		1,000.1	µg/mL	+/-	7.1032	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)			+/-	56.2235	µg/mL	Unstressed
	Purity 99%				+/-	57.5322	µg/mL	Stressed
28	Ethylbenzene		1,000.2	µg/mL	+/-	7.1035	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)			+/-	56.2263	µg/mL	Unstressed
	Purity 99%				+/-	57.5351	µg/mL	Stressed
29	m-Xylene		1,000.2	µg/mL	+/-	7.1035	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot 7ZV6F)			+/-	56.2263	µg/mL	Unstressed
	Purity 99%				+/-	57.5351	µg/mL	Stressed
30	p-Xylene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot D6UOA)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
31	o-Xylene		1,000.1	µg/mL	+/-	7.1028	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)			+/-	56.2207	µg/mL	Unstressed
	Purity 99%				+/-	57.5294	µg/mL	Stressed
32	Styrene		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
33	Isopropylbenzene (cumene)		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot JN4EC)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
34	Bromoform		1,001.7	µg/mL	+/-	7.1485	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 9170700)			+/-	56.3193	µg/mL	Unstressed
	Purity 99%				+/-	57.6300	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		1,001.6	µg/mL	+/-	7.1478	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot BCCB0724)			+/-	56.3139	µg/mL	Unstressed
	Purity 98%				+/-	57.6245	µg/mL	Stressed
36	1,2,3-Trichloropropane		1,000.0	µg/mL	+/-	7.1026	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)			+/-	56.2193	µg/mL	Unstressed
	Purity 99%				+/-	57.5279	µg/mL	Stressed
37	n-Propylbenzene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
38	Bromobenzene		1,000.2	µg/mL	+/-	7.1034	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 8DKWJ)			+/-	56.2256	µg/mL	Unstressed
	Purity 99%				+/-	57.5344	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		1,000.1	µg/mL	+/-	7.1028	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot TOOOF)			+/-	56.2207	µg/mL	Unstressed
	Purity 99%				+/-	57.5294	µg/mL	Stressed

40	2-Chlorotoluene		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot BRHPM)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
41	4-Chlorotoluene		1,000.1	µg/mL	+/-	7.1030	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot S5SKD)			+/-	56.2221	µg/mL	Unstressed
	Purity 99%				+/-	57.5308	µg/mL	Stressed
42	tert-Butylbenzene		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
44	sec-Butylbenzene		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot O4HRF)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
45	4-Isopropyltoluene (p-cymene)		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 8380000)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
46	1,3-Dichlorobenzene		1,000.1	µg/mL	+/-	7.1365	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	56.2251	µg/mL	Unstressed
	Purity 99%				+/-	57.5337	µg/mL	Stressed
47	1,4-Dichlorobenzene		1,002.5	µg/mL	+/-	7.1538	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot YWKDC-MK)			+/-	56.3612	µg/mL	Unstressed
	Purity 99%				+/-	57.6729	µg/mL	Stressed
48	n-Butylbenzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
49	1,2-Dichlorobenzene		1,001.6	µg/mL	+/-	7.1475	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	56.3114	µg/mL	Unstressed
	Purity 99%				+/-	57.6220	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot Q135-105)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot IGLFA)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
52	Hexachlorobutadiene		1,000.8	µg/mL	+/-	7.1079	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 8532700)			+/-	56.2614	µg/mL	Unstressed
	Purity 97%				+/-	57.5709	µg/mL	Stressed
53	Naphthalene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot SKZ5N)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		1,000.7	µg/mL	+/-	7.1076	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/-	56.2588	µg/mL	Unstressed
	Purity 98%				+/-	57.5683	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)

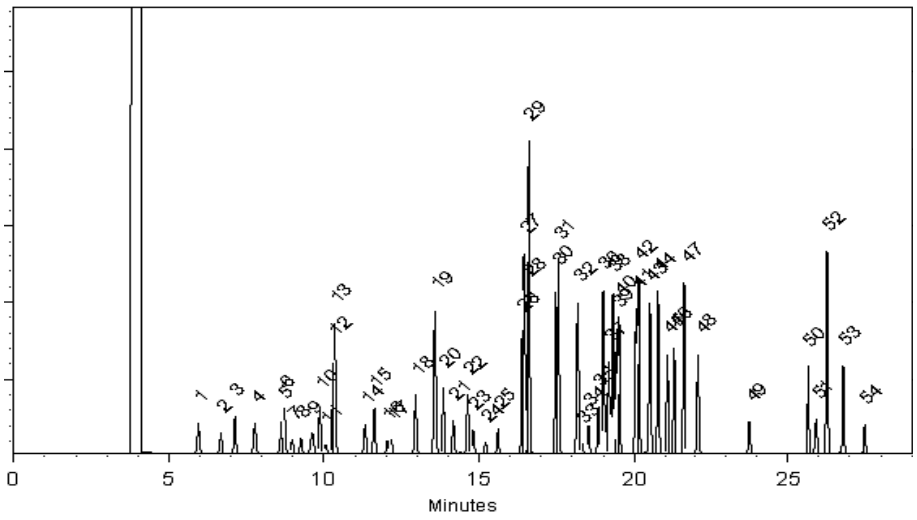
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Bradley Meyer - Mix Technician

Date Mixed: 28-Apr-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 30-Apr-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX1SEC_00072

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577493 **Lot No.:** A0171815

Description : Custom VOC MegaMix®.SEC #1 Standard

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

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

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-Dichloroethene **CAS #** 75-35-4.SEC (Lot 9201700) **Purity** 99%	1,003.8 µg/mL	+/- 7.1628 µg/mL +/- 56.4323 µg/mL +/- 57.7457 µg/mL	Gravimetric Unstressed Stressed
2	Methylene chloride (dichloromethane) **CAS #** 75-09-2.SEC (Lot FGM02) **Purity** 99%	1,001.8 µg/mL	+/- 7.1486 µg/mL +/- 56.3199 µg/mL +/- 57.6306 µg/mL	Gravimetric Unstressed Stressed
3	trans-1,2-Dichloroethene **CAS #** 156-60-5.SEC (Lot TS5UB) **Purity** 99%	1,000.3 µg/mL	+/- 7.1382 µg/mL +/- 56.2383 µg/mL +/- 57.5472 µg/mL	Gravimetric Unstressed Stressed
4	1,1-Dichloroethane **CAS #** 75-34-3.SEC (Lot 7482000) **Purity** 99%	1,002.0 µg/mL	+/- 7.1503 µg/mL +/- 56.3339 µg/mL +/- 57.6450 µg/mL	Gravimetric Unstressed Stressed
5	2,2-Dichloropropane **CAS #** 594-20-7.SEC (Lot I7E8E) **Purity** 98%	1,000.0 µg/mL	+/- 7.1026 µg/mL +/- 56.2188 µg/mL +/- 57.5274 µg/mL	Gravimetric Unstressed Stressed
6	cis-1,2-Dichloroethene **CAS #** 156-59-2.SEC (Lot YZO5O) **Purity** 99%	1,000.1 µg/mL	+/- 7.1028 µg/mL +/- 56.2207 µg/mL +/- 57.5294 µg/mL	Gravimetric Unstressed Stressed
7	Chloroform **CAS #** 67-66-3.SEC (Lot 1297547) **Purity** 99%	1,000.8 µg/mL	+/- 7.1414 µg/mL +/- 56.2636 µg/mL +/- 57.5731 µg/mL	Gravimetric Unstressed Stressed

8	Bromochloromethane		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 8529200)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
9	1,1,1-trichloroethane		1,000.3	µg/mL	+/-	7.1383	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	56.2391	µg/mL	Unstressed
	Purity 98%				+/-	57.5479	µg/mL	Stressed
10	1,1-Dichloropropene		1,002.5	µg/mL	+/-	7.1204	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 8541600)			+/-	56.3597	µg/mL	Unstressed
	Purity 95%				+/-	57.6716	µg/mL	Stressed
11	Carbon tetrachloride		1,000.8	µg/mL	+/-	7.1414	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	56.2636	µg/mL	Unstressed
	Purity 99%				+/-	57.5731	µg/mL	Stressed
12	1,2-Dichloroethane		1,000.6	µg/mL	+/-	7.1407	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot 00016165)			+/-	56.2576	µg/mL	Unstressed
	Purity 99%				+/-	57.5669	µg/mL	Stressed
13	Benzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
14	Trichloroethene		1,000.9	µg/mL	+/-	7.1423	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	56.2708	µg/mL	Unstressed
	Purity 99%				+/-	57.5804	µg/mL	Stressed
15	1,2-Dichloropropane		1,000.1	µg/mL	+/-	7.1371	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)			+/-	56.2293	µg/mL	Unstressed
	Purity 99%				+/-	57.5380	µg/mL	Stressed
16	Bromodichloromethane		1,000.8	µg/mL	+/-	7.1418	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)			+/-	56.2662	µg/mL	Unstressed
	Purity 99%				+/-	57.5757	µg/mL	Stressed
17	Dibromomethane		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot MOKKJ)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
18	cis-1,3-Dichloropropene		1,000.9	µg/mL	+/-	7.1425	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/-	56.2723	µg/mL	Unstressed
	Purity 98%				+/-	57.5819	µg/mL	Stressed
19	Toluene		1,000.0	µg/mL	+/-	7.1026	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	56.2193	µg/mL	Unstressed
	Purity 99%				+/-	57.5279	µg/mL	Stressed
20	trans-1,3-Dichloropropene		1,002.1	µg/mL	+/-	7.1513	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	56.3417	µg/mL	Unstressed
	Purity 96%				+/-	57.6530	µg/mL	Stressed
21	1,1,2-Trichloroethane		1,001.3	µg/mL	+/-	7.1450	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)			+/-	56.2917	µg/mL	Unstressed
	Purity 99%				+/-	57.6018	µg/mL	Stressed
22	1,3-Dichloropropane		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
23	Tetrachloroethene		1,000.2	µg/mL	+/-	7.1378	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	56.2350	µg/mL	Unstressed
	Purity 99%				+/-	57.5437	µg/mL	Stressed

24	Dibromochloromethane		1,000.5	µg/mL	+/-	7.1396	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)			+/-	56.2489	µg/mL	Unstressed
	Purity 97%				+/-	57.5580	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		1,000.1	µg/mL	+/-	7.1032	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 7511900)			+/-	56.2235	µg/mL	Unstressed
	Purity 99%				+/-	57.5322	µg/mL	Stressed
26	Chlorobenzene		1,001.4	µg/mL	+/-	7.1460	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	56.2995	µg/mL	Unstressed
	Purity 99%				+/-	57.6098	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		1,000.1	µg/mL	+/-	7.1032	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)			+/-	56.2235	µg/mL	Unstressed
	Purity 99%				+/-	57.5322	µg/mL	Stressed
28	Ethylbenzene		1,000.2	µg/mL	+/-	7.1035	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)			+/-	56.2263	µg/mL	Unstressed
	Purity 99%				+/-	57.5351	µg/mL	Stressed
29	m-Xylene		1,000.2	µg/mL	+/-	7.1035	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot 7ZV6F)			+/-	56.2263	µg/mL	Unstressed
	Purity 99%				+/-	57.5351	µg/mL	Stressed
30	p-Xylene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot D6UOA)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
31	o-Xylene		1,000.1	µg/mL	+/-	7.1028	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)			+/-	56.2207	µg/mL	Unstressed
	Purity 99%				+/-	57.5294	µg/mL	Stressed
32	Styrene		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
33	Isopropylbenzene (cumene)		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot JN4EC)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
34	Bromoform		1,001.7	µg/mL	+/-	7.1485	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 9170700)			+/-	56.3193	µg/mL	Unstressed
	Purity 99%				+/-	57.6300	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		1,001.6	µg/mL	+/-	7.1478	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot BCCB0724)			+/-	56.3139	µg/mL	Unstressed
	Purity 98%				+/-	57.6245	µg/mL	Stressed
36	1,2,3-Trichloropropane		1,000.0	µg/mL	+/-	7.1026	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)			+/-	56.2193	µg/mL	Unstressed
	Purity 99%				+/-	57.5279	µg/mL	Stressed
37	n-Propylbenzene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
38	Bromobenzene		1,000.2	µg/mL	+/-	7.1034	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 8DKWJ)			+/-	56.2256	µg/mL	Unstressed
	Purity 99%				+/-	57.5344	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		1,000.1	µg/mL	+/-	7.1028	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot TOOOF)			+/-	56.2207	µg/mL	Unstressed
	Purity 99%				+/-	57.5294	µg/mL	Stressed

40	2-Chlorotoluene		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot BRHPM)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
41	4-Chlorotoluene		1,000.1	µg/mL	+/-	7.1030	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot S5SKD)			+/-	56.2221	µg/mL	Unstressed
	Purity 99%				+/-	57.5308	µg/mL	Stressed
42	tert-Butylbenzene		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
44	sec-Butylbenzene		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot O4HRF)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
45	4-Isopropyltoluene (p-cymene)		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 8380000)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
46	1,3-Dichlorobenzene		1,000.1	µg/mL	+/-	7.1365	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	56.2251	µg/mL	Unstressed
	Purity 99%				+/-	57.5337	µg/mL	Stressed
47	1,4-Dichlorobenzene		1,002.5	µg/mL	+/-	7.1538	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot YWKDC-MK)			+/-	56.3612	µg/mL	Unstressed
	Purity 99%				+/-	57.6729	µg/mL	Stressed
48	n-Butylbenzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
49	1,2-Dichlorobenzene		1,001.6	µg/mL	+/-	7.1475	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	56.3114	µg/mL	Unstressed
	Purity 99%				+/-	57.6220	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot Q135-105)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot IGLFA)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
52	Hexachlorobutadiene		1,000.8	µg/mL	+/-	7.1079	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 8532700)			+/-	56.2614	µg/mL	Unstressed
	Purity 97%				+/-	57.5709	µg/mL	Stressed
53	Naphthalene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot SKZ5N)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		1,000.7	µg/mL	+/-	7.1076	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/-	56.2588	µg/mL	Unstressed
	Purity 98%				+/-	57.5683	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)

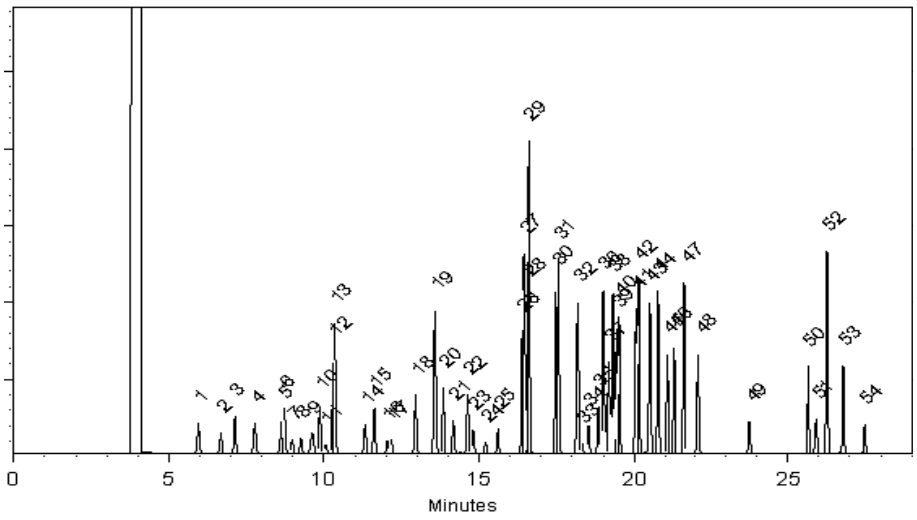
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Bradley Meyer - Mix Technician

Date Mixed: 28-Apr-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 30-Apr-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX2SEC_00045

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577494 **Lot No.:** A0171837

Description : Custom VOC MegaMix®.SEC #2 Standard

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

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

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Pentane (C5)	1,002.0 µg/mL	+/- 5.8803 µg/mL	Gravimetric
	CAS # 109-66-0.SEC (Lot FGH02)		+/- 49.5732 µg/mL	Unstressed
	Purity 99%		+/- 50.8056 µg/mL	Stressed
2	2-Propanol (isopropanol)	7,501.5 µg/mL	+/- 43.9229 µg/mL	Gravimetric
	CAS # 67-63-0.SEC (Lot TFT5I)		+/- 371.1195 µg/mL	Unstressed
	Purity 99%		+/- 380.3459 µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,002.0 µg/mL	+/- 5.8803 µg/mL	Gravimetric
	CAS # 76-13-1.SEC (Lot 18342)		+/- 49.5732 µg/mL	Unstressed
	Purity 99%		+/- 50.8056 µg/mL	Stressed
4	tert-Butanol (TBA)	10,001.0 µg/mL	+/- 58.5581 µg/mL	Gravimetric
	CAS # 75-65-0.SEC (Lot 5REPK)		+/- 494.7765 µg/mL	Unstressed
	Purity 99%		+/- 507.0771 µg/mL	Stressed
5	Methyl acetate	1,002.5 µg/mL	+/- 5.8832 µg/mL	Gravimetric
	CAS # 79-20-9.SEC (Lot YDGVD)		+/- 49.5980 µg/mL	Unstressed
	Purity 99%		+/- 50.8309 µg/mL	Stressed
6	Iodomethane (methyl iodide)	1,001.5 µg/mL	+/- 5.8774 µg/mL	Gravimetric
	CAS # 74-88-4.SEC (Lot Y25A027)		+/- 49.5485 µg/mL	Unstressed
	Purity 99%		+/- 50.7802 µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	1,002.0 µg/mL	+/- 5.8803 µg/mL	Gravimetric
	CAS # 107-05-1.SEC (Lot H3HGC)		+/- 49.5732 µg/mL	Unstressed
	Purity 99%		+/- 50.8056 µg/mL	Stressed

8	Carbon disulfide		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 75-15-0.SEC	(Lot MKBL1376V)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
9	Acrylonitrile		5,000.5	µg/mL	+/-	29.2790	µg/mL	Gravimetric
	CAS # 107-13-1.SEC	(Lot V54AD)			+/-	247.3882	µg/mL	Unstressed
	Purity 99%				+/-	253.5386	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC	(Lot ZHKYA)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
11	n-Hexane (C6)		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot 10188491)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		1,003.0	µg/mL	+/-	5.8862	µg/mL	Gravimetric
	CAS # 108-20-3.SEC	(Lot LL7TN-SH)			+/-	49.6227	µg/mL	Unstressed
	Purity 99%				+/-	50.8563	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210413JLM)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		1,002.1	µg/mL	+/-	5.8806	µg/mL	Gravimetric
	CAS # 637-92-3.SEC	(Lot UCI5B)			+/-	49.5757	µg/mL	Unstressed
	Purity 98%				+/-	50.8081	µg/mL	Stressed
15	Propionitrile		7,501.5	µg/mL	+/-	43.9229	µg/mL	Gravimetric
	CAS # 107-12-0.SEC	(Lot N44LF)			+/-	371.1195	µg/mL	Unstressed
	Purity 99%				+/-	380.3459	µg/mL	Stressed
16	Methacrylonitrile		7,501.5	µg/mL	+/-	43.9229	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012014)			+/-	371.1195	µg/mL	Unstressed
	Purity 99%				+/-	380.3459	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		25,001.0	µg/mL	+/-	146.3864	µg/mL	Gravimetric
	CAS # 78-83-1.SEC	(Lot YNG3K)			+/-	1,236.8670	µg/mL	Unstressed
	Purity 99%				+/-	1,267.6168	µg/mL	Stressed
18	Tetrahydrofuran		5,000.5	µg/mL	+/-	29.2790	µg/mL	Gravimetric
	CAS # 109-99-9.SEC	(Lot 3NYHE)			+/-	247.3882	µg/mL	Unstressed
	Purity 99%				+/-	253.5386	µg/mL	Stressed
19	Cyclohexane		1,000.0	µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	49.4743	µg/mL	Unstressed
	Purity 99%				+/-	50.7042	µg/mL	Stressed
20	1-Butanol		50,004.5	µg/mL	+/-	292.7722	µg/mL	Gravimetric
	CAS # 71-36-3.SEC	(Lot 6B6UL)			+/-	2,473.8558	µg/mL	Unstressed
	Purity 99%				+/-	2,535.3586	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 994-05-8.SEC	(Lot 11010100)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
22	n-Heptane (C7)		1,002.5	µg/mL	+/-	5.8832	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot TFHUC)			+/-	49.5980	µg/mL	Unstressed
	Purity 99%				+/-	50.8309	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		1,000.5	µg/mL	+/-	5.8715	µg/mL	Gravimetric
	CAS # 919-94-8.SEC	(Lot 11370700)			+/-	49.4990	µg/mL	Unstressed
	Purity 99%				+/-	50.7295	µg/mL	Stressed

24	Methylcyclohexane		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot Q02QG)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
25	Methyl methacrylate		1,000.5	µg/mL	+/-	5.8715	µg/mL	Gravimetric
	CAS # 80-62-6.SEC	(Lot G01X021)			+/-	49.4990	µg/mL	Unstressed
	Purity 99%				+/-	50.7295	µg/mL	Stressed
26	1,4-Dioxane		25,004.0	µg/mL	+/-	146.4039	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot KLE2K)			+/-	1,237.0154	µg/mL	Unstressed
	Purity 99%				+/-	1,267.7689	µg/mL	Stressed
27	2-Nitropropane		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 79-46-9.SEC	(Lot F43IA)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
28	Ethyl methacrylate		1,000.0	µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot MLWYK-LS)			+/-	49.4743	µg/mL	Unstressed
	Purity 99%				+/-	50.7042	µg/mL	Stressed
29	1-Chlorohexane		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 544-10-5.SEC	(Lot 8171700)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
30	trans-1,4-Dichloro-2-butene		5,000.4	µg/mL	+/-	29.2781	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot 100700-3)			+/-	247.3808	µg/mL	Unstressed
	Purity 97%				+/-	253.5310	µg/mL	Stressed
31	1,2,3-Trimethylbenzene		1,001.1	µg/mL	+/-	5.8748	µg/mL	Gravimetric
	CAS # 526-73-8.SEC	(Lot 11386600)			+/-	49.5272	µg/mL	Unstressed
	Purity 98%				+/-	50.7584	µg/mL	Stressed
32	1,3-Diethylbenzene		1,003.5	µg/mL	+/-	5.8891	µg/mL	Gravimetric
	CAS # 141-93-5.SEC	(Lot 113566-1)			+/-	49.6474	µg/mL	Unstressed
	Purity 99%				+/-	50.8816	µg/mL	Stressed
33	Benzyl chloride		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 100-44-7.SEC	(Lot H29N03)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
34	1,4-Diethylbenzene		1,002.1	µg/mL	+/-	5.8806	µg/mL	Gravimetric
	CAS # 105-05-5.SEC	(Lot FBQ02)			+/-	49.5757	µg/mL	Unstressed
	Purity 98%				+/-	50.8081	µg/mL	Stressed
35	1,2-Diethylbenzene		1,000.5	µg/mL	+/-	5.8715	µg/mL	Gravimetric
	CAS # 135-01-3.SEC	(Lot BCBF3667V)			+/-	49.4990	µg/mL	Unstressed
	Purity 99%				+/-	50.7295	µg/mL	Stressed
36	1,3,5-Trichlorobenzene		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 108-70-3.SEC	(Lot I28U021)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
37	2-Methylnaphthalene		1,000.0	µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 91-57-6.SEC	(Lot 76023-1)			+/-	49.4743	µg/mL	Unstressed
	Purity 99%				+/-	50.7042	µg/mL	Stressed

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

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

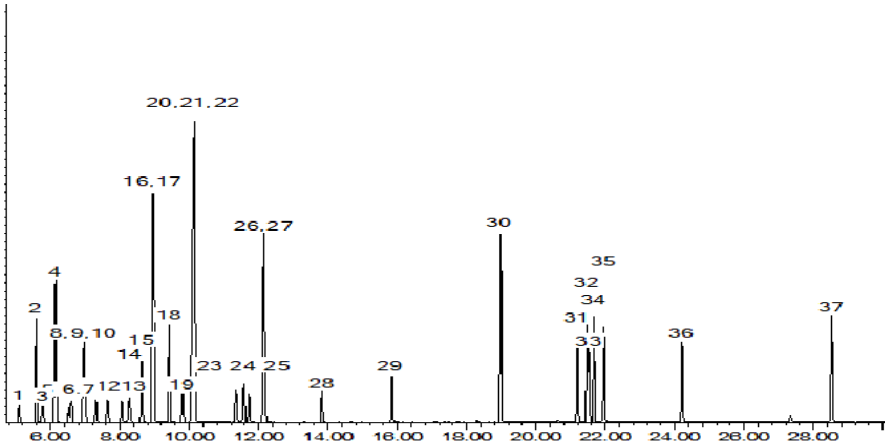
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Date Mixed: 28-Apr-2021 **Balance:** 1128353505

Alexis Shelow - Operations Tech I

Date Passed: 04-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX2SEC_00054

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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577494 **Lot No.:** A0171837

Description : Custom VOC MegaMix®.SEC #2 Standard

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

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

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	n-Pentane (C5)	1,002.0 µg/mL	+/- 5.8803 µg/mL	Gravimetric
	CAS # 109-66-0.SEC (Lot FGH02)		+/- 49.5732 µg/mL	Unstressed
	Purity 99%		+/- 50.8056 µg/mL	Stressed
2	2-Propanol (isopropanol)	7,501.5 µg/mL	+/- 43.9229 µg/mL	Gravimetric
	CAS # 67-63-0.SEC (Lot TFT5I)		+/- 371.1195 µg/mL	Unstressed
	Purity 99%		+/- 380.3459 µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,002.0 µg/mL	+/- 5.8803 µg/mL	Gravimetric
	CAS # 76-13-1.SEC (Lot 18342)		+/- 49.5732 µg/mL	Unstressed
	Purity 99%		+/- 50.8056 µg/mL	Stressed
4	tert-Butanol (TBA)	10,001.0 µg/mL	+/- 58.5581 µg/mL	Gravimetric
	CAS # 75-65-0.SEC (Lot 5REPK)		+/- 494.7765 µg/mL	Unstressed
	Purity 99%		+/- 507.0771 µg/mL	Stressed
5	Methyl acetate	1,002.5 µg/mL	+/- 5.8832 µg/mL	Gravimetric
	CAS # 79-20-9.SEC (Lot YDGVD)		+/- 49.5980 µg/mL	Unstressed
	Purity 99%		+/- 50.8309 µg/mL	Stressed
6	Iodomethane (methyl iodide)	1,001.5 µg/mL	+/- 5.8774 µg/mL	Gravimetric
	CAS # 74-88-4.SEC (Lot Y25A027)		+/- 49.5485 µg/mL	Unstressed
	Purity 99%		+/- 50.7802 µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	1,002.0 µg/mL	+/- 5.8803 µg/mL	Gravimetric
	CAS # 107-05-1.SEC (Lot H3HGC)		+/- 49.5732 µg/mL	Unstressed
	Purity 99%		+/- 50.8056 µg/mL	Stressed

8	Carbon disulfide		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 75-15-0.SEC	(Lot MKBL1376V)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
9	Acrylonitrile		5,000.5	µg/mL	+/-	29.2790	µg/mL	Gravimetric
	CAS # 107-13-1.SEC	(Lot V54AD)			+/-	247.3882	µg/mL	Unstressed
	Purity 99%				+/-	253.5386	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC	(Lot ZHKYA)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
11	n-Hexane (C6)		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot 10188491)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		1,003.0	µg/mL	+/-	5.8862	µg/mL	Gravimetric
	CAS # 108-20-3.SEC	(Lot LL7TN-SH)			+/-	49.6227	µg/mL	Unstressed
	Purity 99%				+/-	50.8563	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210413JLM)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		1,002.1	µg/mL	+/-	5.8806	µg/mL	Gravimetric
	CAS # 637-92-3.SEC	(Lot UCI5B)			+/-	49.5757	µg/mL	Unstressed
	Purity 98%				+/-	50.8081	µg/mL	Stressed
15	Propionitrile		7,501.5	µg/mL	+/-	43.9229	µg/mL	Gravimetric
	CAS # 107-12-0.SEC	(Lot N44LF)			+/-	371.1195	µg/mL	Unstressed
	Purity 99%				+/-	380.3459	µg/mL	Stressed
16	Methacrylonitrile		7,501.5	µg/mL	+/-	43.9229	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012014)			+/-	371.1195	µg/mL	Unstressed
	Purity 99%				+/-	380.3459	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		25,001.0	µg/mL	+/-	146.3864	µg/mL	Gravimetric
	CAS # 78-83-1.SEC	(Lot YNG3K)			+/-	1,236.8670	µg/mL	Unstressed
	Purity 99%				+/-	1,267.6168	µg/mL	Stressed
18	Tetrahydrofuran		5,000.5	µg/mL	+/-	29.2790	µg/mL	Gravimetric
	CAS # 109-99-9.SEC	(Lot 3NYHE)			+/-	247.3882	µg/mL	Unstressed
	Purity 99%				+/-	253.5386	µg/mL	Stressed
19	Cyclohexane		1,000.0	µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	49.4743	µg/mL	Unstressed
	Purity 99%				+/-	50.7042	µg/mL	Stressed
20	1-Butanol		50,004.5	µg/mL	+/-	292.7722	µg/mL	Gravimetric
	CAS # 71-36-3.SEC	(Lot 6B6UL)			+/-	2,473.8558	µg/mL	Unstressed
	Purity 99%				+/-	2,535.3586	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 994-05-8.SEC	(Lot 11010100)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
22	n-Heptane (C7)		1,002.5	µg/mL	+/-	5.8832	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot TFHUC)			+/-	49.5980	µg/mL	Unstressed
	Purity 99%				+/-	50.8309	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		1,000.5	µg/mL	+/-	5.8715	µg/mL	Gravimetric
	CAS # 919-94-8.SEC	(Lot 11370700)			+/-	49.4990	µg/mL	Unstressed
	Purity 99%				+/-	50.7295	µg/mL	Stressed

24	Methylcyclohexane		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot Q02QG)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
25	Methyl methacrylate		1,000.5	µg/mL	+/-	5.8715	µg/mL	Gravimetric
	CAS # 80-62-6.SEC	(Lot G01X021)			+/-	49.4990	µg/mL	Unstressed
	Purity 99%				+/-	50.7295	µg/mL	Stressed
26	1,4-Dioxane		25,004.0	µg/mL	+/-	146.4039	µg/mL	Gravimetric
	CAS # 123-91-1.SEC	(Lot KLE2K)			+/-	1,237.0154	µg/mL	Unstressed
	Purity 99%				+/-	1,267.7689	µg/mL	Stressed
27	2-Nitropropane		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 79-46-9.SEC	(Lot F43IA)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
28	Ethyl methacrylate		1,000.0	µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot MLWYK-LS)			+/-	49.4743	µg/mL	Unstressed
	Purity 99%				+/-	50.7042	µg/mL	Stressed
29	1-Chlorohexane		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 544-10-5.SEC	(Lot 8171700)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
30	trans-1,4-Dichloro-2-butene		5,000.4	µg/mL	+/-	29.2781	µg/mL	Gravimetric
	CAS # 110-57-6.SEC	(Lot 100700-3)			+/-	247.3808	µg/mL	Unstressed
	Purity 97%				+/-	253.5310	µg/mL	Stressed
31	1,2,3-Trimethylbenzene		1,001.1	µg/mL	+/-	5.8748	µg/mL	Gravimetric
	CAS # 526-73-8.SEC	(Lot 11386600)			+/-	49.5272	µg/mL	Unstressed
	Purity 98%				+/-	50.7584	µg/mL	Stressed
32	1,3-Diethylbenzene		1,003.5	µg/mL	+/-	5.8891	µg/mL	Gravimetric
	CAS # 141-93-5.SEC	(Lot 113566-1)			+/-	49.6474	µg/mL	Unstressed
	Purity 99%				+/-	50.8816	µg/mL	Stressed
33	Benzyl chloride		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 100-44-7.SEC	(Lot H29N03)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
34	1,4-Diethylbenzene		1,002.1	µg/mL	+/-	5.8806	µg/mL	Gravimetric
	CAS # 105-05-5.SEC	(Lot FBQ02)			+/-	49.5757	µg/mL	Unstressed
	Purity 98%				+/-	50.8081	µg/mL	Stressed
35	1,2-Diethylbenzene		1,000.5	µg/mL	+/-	5.8715	µg/mL	Gravimetric
	CAS # 135-01-3.SEC	(Lot BCBF3667V)			+/-	49.4990	µg/mL	Unstressed
	Purity 99%				+/-	50.7295	µg/mL	Stressed
36	1,3,5-Trichlorobenzene		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 108-70-3.SEC	(Lot I28U021)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
37	2-Methylnaphthalene		1,000.0	µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 91-57-6.SEC	(Lot 76023-1)			+/-	49.4743	µg/mL	Unstressed
	Purity 99%				+/-	50.7042	µg/mL	Stressed

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

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

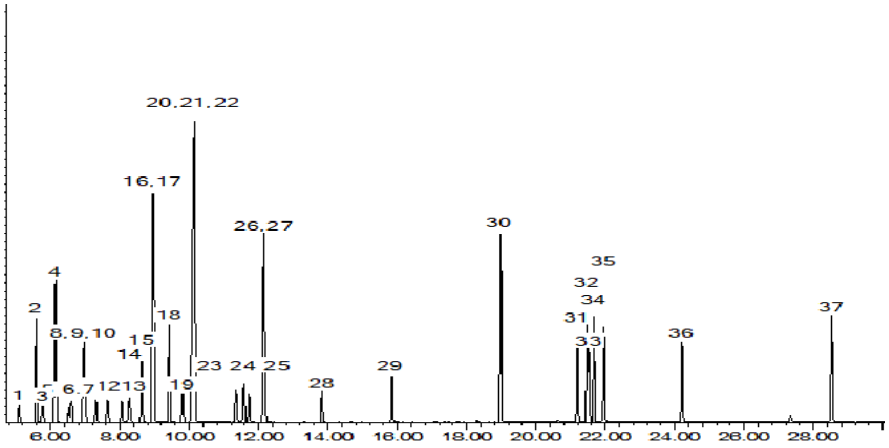
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Date Mixed: 28-Apr-2021 **Balance:** 1128353505

Alexis Shelow - Operations Tech I

Date Passed: 04-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX2SEC_00071

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577494 **Lot No.:** A0171837

Description : Custom VOC MegaMix®.SEC #2 Standard

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

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

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
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	CAS # 526-73-8.SEC	(Lot 11386600)			+/-	49.5272	µg/mL	Unstressed
	Purity 98%				+/-	50.7584	µg/mL	Stressed
32	1,3-Diethylbenzene		1,003.5	µg/mL	+/-	5.8891	µg/mL	Gravimetric
	CAS # 141-93-5.SEC	(Lot 113566-1)			+/-	49.6474	µg/mL	Unstressed
	Purity 99%				+/-	50.8816	µg/mL	Stressed
33	Benzyl chloride		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 100-44-7.SEC	(Lot H29N03)			+/-	49.5238	µg/mL	Unstressed
	Purity 99%				+/-	50.7549	µg/mL	Stressed
34	1,4-Diethylbenzene		1,002.1	µg/mL	+/-	5.8806	µg/mL	Gravimetric
	CAS # 105-05-5.SEC	(Lot FBQ02)			+/-	49.5757	µg/mL	Unstressed
	Purity 98%				+/-	50.8081	µg/mL	Stressed
35	1,2-Diethylbenzene		1,000.5	µg/mL	+/-	5.8715	µg/mL	Gravimetric
	CAS # 135-01-3.SEC	(Lot BCBF3667V)			+/-	49.4990	µg/mL	Unstressed
	Purity 99%				+/-	50.7295	µg/mL	Stressed
36	1,3,5-Trichlorobenzene		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 108-70-3.SEC	(Lot I28U021)			+/-	49.5485	µg/mL	Unstressed
	Purity 99%				+/-	50.7802	µg/mL	Stressed
37	2-Methylnaphthalene		1,000.0	µg/mL	+/-	5.8686	µg/mL	Gravimetric
	CAS # 91-57-6.SEC	(Lot 76023-1)			+/-	49.4743	µg/mL	Unstressed
	Purity 99%				+/-	50.7042	µg/mL	Stressed

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

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

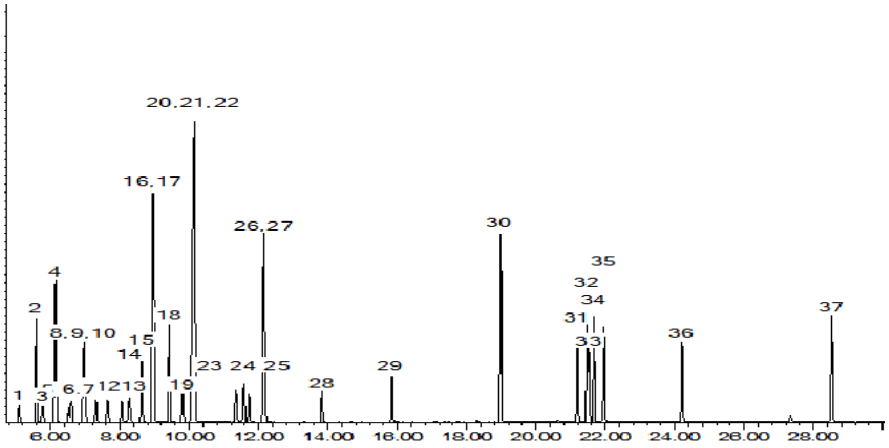
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Date Mixed: 28-Apr-2021 **Balance:** 1128353505

Alexis Shelow - Operations Tech I

Date Passed: 04-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMIX#1_00045

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577486 **Lot No.:** A0171634

Description : Custom VOC MegaMix® #1 Standard

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

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

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-dichloroethene	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 75-35-4 (Lot SHBK2437)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 75-09-2 (Lot SHBL6169)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
3	trans-1,2-Dichloroethene	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 156-60-5 (Lot MKBH9850V)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
4	1,1-Dichloroethane	5,000.8 µg/mL	+/- 31.7079 µg/mL	Gravimetric
	CAS # 75-34-3 (Lot 580900)		+/- 280.6723 µg/mL	Unstressed
	Purity 99%		+/- 287.2265 µg/mL	Stressed
5	2,2-Dichloropropane	5,000.8 µg/mL	+/- 31.8970 µg/mL	Gravimetric
	CAS # 594-20-7 (Lot RD201111)		+/- 280.6965 µg/mL	Unstressed
	Purity 99%		+/- 287.2503 µg/mL	Stressed
6	cis-1,2-Dichloroethene	5,000.6 µg/mL	+/- 31.8957 µg/mL	Gravimetric
	CAS # 156-59-2 (Lot MKCK1803)		+/- 280.6853 µg/mL	Unstressed
	Purity 99%		+/- 287.2388 µg/mL	Stressed
7	chloroform	5,000.6 µg/mL	+/- 31.7067 µg/mL	Gravimetric
	CAS # 67-66-3 (Lot SHBL6923)		+/- 280.6618 µg/mL	Unstressed
	Purity 99%		+/- 287.2158 µg/mL	Stressed

8	Bromochloromethane		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00008541)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
9	1,1,1-trichloroethane		5,000.1	µg/mL	+/-	31.7041	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	280.6383	µg/mL	Unstressed
	Purity 98%				+/-	287.1917	µg/mL	Stressed
10	1,1-Dichloropropene		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 201106JLM)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
11	carbon tetrachloride		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBJ2110)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
12	1,2-Dichloroethane		5,000.4	µg/mL	+/-	31.7059	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot MKCM8716)			+/-	280.6548	µg/mL	Unstressed
	Purity 99%				+/-	287.2086	µg/mL	Stressed
13	Benzene		5,001.0	µg/mL	+/-	31.8982	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBM3620)			+/-	280.7078	µg/mL	Unstressed
	Purity 99%				+/-	287.2618	µg/mL	Stressed
14	Trichloroethene		5,000.8	µg/mL	+/-	31.7079	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBL5816)			+/-	280.6723	µg/mL	Unstressed
	Purity 99%				+/-	287.2265	µg/mL	Stressed
15	1,2-Dichloropropane		5,001.1	µg/mL	+/-	31.7099	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	280.6899	µg/mL	Unstressed
	Purity 99%				+/-	287.2445	µg/mL	Stressed
16	bromodichloromethane		5,000.2	µg/mL	+/-	31.7043	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCK3742)			+/-	280.6408	µg/mL	Unstressed
	Purity 99%				+/-	287.1942	µg/mL	Stressed
17	Dibromomethane		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10215970)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
18	cis-1,3-Dichloropropene		5,001.9	µg/mL	+/-	31.7154	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot D26147-1217)			+/-	280.7390	µg/mL	Unstressed
	Purity 99%				+/-	287.2947	µg/mL	Stressed
19	Toluene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot SHBM6128)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
20	trans-1,3-Dichloropropene		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot RP201030)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
21	1,1,2-Trichloroethane		5,000.9	µg/mL	+/-	31.7087	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	280.6794	µg/mL	Unstressed
	Purity 99%				+/-	287.2337	µg/mL	Stressed
22	1,3-Dichloropropane		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBC6265)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
23	Tetrachloroethene		5,000.8	µg/mL	+/-	31.7079	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBJ7422)			+/-	280.6723	µg/mL	Unstressed
	Purity 99%				+/-	287.2265	µg/mL	Stressed

24	dibromochloromethane		5,001.1	µg/mL	+/-	31.7099	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCK6472)			+/-	280.6899	µg/mL	Unstressed
	Purity 99%				+/-	287.2445	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBP2268V)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
26	Chlorobenzene		5,000.2	µg/mL	+/-	31.7043	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBL8110)			+/-	280.6408	µg/mL	Unstressed
	Purity 99%				+/-	287.1942	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot GC01)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
28	Ethylbenzene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBL9192)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
29	m-Xylene		5,001.8	µg/mL	+/-	31.9033	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBM4841)			+/-	280.7527	µg/mL	Unstressed
	Purity 99%				+/-	287.3077	µg/mL	Stressed
30	p-Xylene		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBJ7329)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
31	o-Xylene		5,001.8	µg/mL	+/-	31.9035	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBL3963)			+/-	280.7539	µg/mL	Unstressed
	Purity 98%				+/-	287.3090	µg/mL	Stressed
32	Styrene		5,001.7	µg/mL	+/-	31.9027	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKCM3200)			+/-	280.7471	µg/mL	Unstressed
	Purity 99%				+/-	287.3020	µg/mL	Stressed
33	Isopropylbenzene (cumene)		5,001.0	µg/mL	+/-	31.8982	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot P15E008)			+/-	280.7078	µg/mL	Unstressed
	Purity 99%				+/-	287.2618	µg/mL	Stressed
34	bromoform		5,000.4	µg/mL	+/-	31.7055	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBJ4835)			+/-	280.6513	µg/mL	Unstressed
	Purity 99%				+/-	287.2050	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		5,000.4	µg/mL	+/-	31.7059	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	280.6548	µg/mL	Unstressed
	Purity 99%				+/-	287.2086	µg/mL	Stressed
36	1,2,3-Trichloropropane		5,000.0	µg/mL	+/-	31.8918	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot BCBH8722V)			+/-	280.6516	µg/mL	Unstressed
	Purity 99%				+/-	287.2044	µg/mL	Stressed
37	n-Propylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKCM4174)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed
38	Bromobenzene		5,001.1	µg/mL	+/-	31.8989	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot WXBC5147V)			+/-	280.7134	µg/mL	Unstressed
	Purity 99%				+/-	287.2675	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCCD0427)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed

40	2-Chlorotoluene		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKCF5243)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
41	4-Chlorotoluene		5,000.1	µg/mL	+/-	31.8925	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKCC8496)			+/-	280.6572	µg/mL	Unstressed
	Purity 99%				+/-	287.2101	µg/mL	Stressed
42	tert-Butylbenzene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot STBJ1937)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		5,000.6	µg/mL	+/-	31.8960	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot WXBC9428V)			+/-	280.6879	µg/mL	Unstressed
	Purity 98%				+/-	287.2415	µg/mL	Stressed
44	sec-Butylbenzene		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKCN2920)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
45	p-Isopropyltoluene (p-Cymene)		5,001.1	µg/mL	+/-	31.8989	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKCN1411)			+/-	280.7134	µg/mL	Unstressed
	Purity 99%				+/-	287.2675	µg/mL	Stressed
46	1,3-Dichlorobenzene		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBZ7498)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
47	1,4-Dichlorobenzene		5,000.8	µg/mL	+/-	31.7083	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	280.6759	µg/mL	Unstressed
	Purity 99%				+/-	287.2301	µg/mL	Stressed
48	n-Butylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09804AE)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed
49	1,2-Dichlorobenzene		5,000.1	µg/mL	+/-	31.7036	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBK7741)			+/-	280.6338	µg/mL	Unstressed
	Purity 99%				+/-	287.1871	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		5,000.3	µg/mL	+/-	31.8935	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot FBL01)			+/-	280.6658	µg/mL	Unstressed
	Purity 97%				+/-	287.2189	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBJ9215)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
52	Hexachlorobutadiene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot 664800)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
53	Naphthalene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBZ8680V)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		5,000.4	µg/mL	+/-	31.8944	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)			+/-	280.6741	µg/mL	Unstressed
	Purity 99%				+/-	287.2273	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)

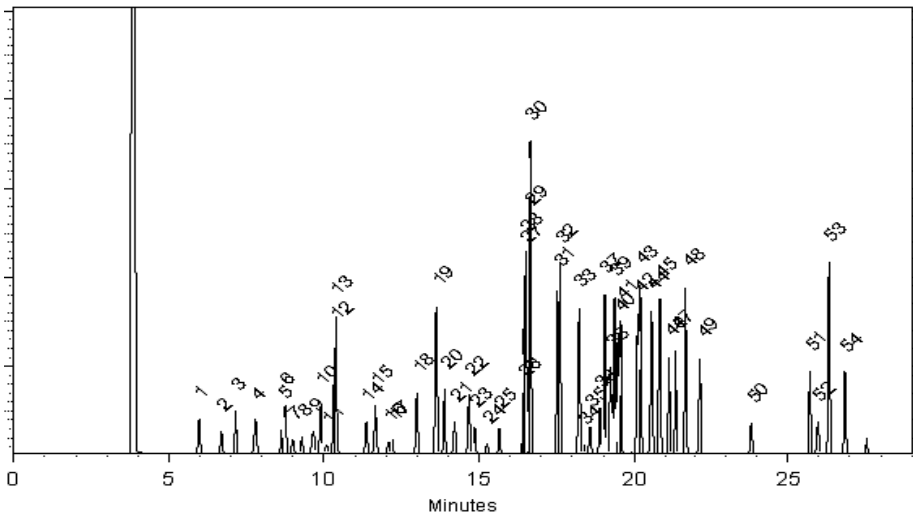
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Walker Workman - Operations Technician I

Date Mixed: 22-Apr-2021 **Balance:** 1128360905

Alexis Shelow - Operations Tech I

Date Passed: 26-Apr-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMIX#1_00055

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577486 **Lot No.:** A0171634

Description : Custom VOC MegaMix® #1 Standard

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

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

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-dichloroethene	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 75-35-4 (Lot SHBK2437)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 75-09-2 (Lot SHBL6169)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
3	trans-1,2-Dichloroethene	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 156-60-5 (Lot MKBH9850V)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
4	1,1-Dichloroethane	5,000.8 µg/mL	+/- 31.7079 µg/mL	Gravimetric
	CAS # 75-34-3 (Lot 580900)		+/- 280.6723 µg/mL	Unstressed
	Purity 99%		+/- 287.2265 µg/mL	Stressed
5	2,2-Dichloropropane	5,000.8 µg/mL	+/- 31.8970 µg/mL	Gravimetric
	CAS # 594-20-7 (Lot RD201111)		+/- 280.6965 µg/mL	Unstressed
	Purity 99%		+/- 287.2503 µg/mL	Stressed
6	cis-1,2-Dichloroethene	5,000.6 µg/mL	+/- 31.8957 µg/mL	Gravimetric
	CAS # 156-59-2 (Lot MKCK1803)		+/- 280.6853 µg/mL	Unstressed
	Purity 99%		+/- 287.2388 µg/mL	Stressed
7	chloroform	5,000.6 µg/mL	+/- 31.7067 µg/mL	Gravimetric
	CAS # 67-66-3 (Lot SHBL6923)		+/- 280.6618 µg/mL	Unstressed
	Purity 99%		+/- 287.2158 µg/mL	Stressed

8	Bromochloromethane		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00008541)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
9	1,1,1-trichloroethane		5,000.1	µg/mL	+/-	31.7041	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	280.6383	µg/mL	Unstressed
	Purity 98%				+/-	287.1917	µg/mL	Stressed
10	1,1-Dichloropropene		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 201106JLM)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
11	carbon tetrachloride		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBJ2110)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
12	1,2-Dichloroethane		5,000.4	µg/mL	+/-	31.7059	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot MKCM8716)			+/-	280.6548	µg/mL	Unstressed
	Purity 99%				+/-	287.2086	µg/mL	Stressed
13	Benzene		5,001.0	µg/mL	+/-	31.8982	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBM3620)			+/-	280.7078	µg/mL	Unstressed
	Purity 99%				+/-	287.2618	µg/mL	Stressed
14	Trichloroethene		5,000.8	µg/mL	+/-	31.7079	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBL5816)			+/-	280.6723	µg/mL	Unstressed
	Purity 99%				+/-	287.2265	µg/mL	Stressed
15	1,2-Dichloropropane		5,001.1	µg/mL	+/-	31.7099	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	280.6899	µg/mL	Unstressed
	Purity 99%				+/-	287.2445	µg/mL	Stressed
16	bromodichloromethane		5,000.2	µg/mL	+/-	31.7043	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCK3742)			+/-	280.6408	µg/mL	Unstressed
	Purity 99%				+/-	287.1942	µg/mL	Stressed
17	Dibromomethane		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10215970)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
18	cis-1,3-Dichloropropene		5,001.9	µg/mL	+/-	31.7154	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot D26147-1217)			+/-	280.7390	µg/mL	Unstressed
	Purity 99%				+/-	287.2947	µg/mL	Stressed
19	Toluene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot SHBM6128)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
20	trans-1,3-Dichloropropene		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot RP201030)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
21	1,1,2-Trichloroethane		5,000.9	µg/mL	+/-	31.7087	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	280.6794	µg/mL	Unstressed
	Purity 99%				+/-	287.2337	µg/mL	Stressed
22	1,3-Dichloropropane		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBC6265)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
23	Tetrachloroethene		5,000.8	µg/mL	+/-	31.7079	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBJ7422)			+/-	280.6723	µg/mL	Unstressed
	Purity 99%				+/-	287.2265	µg/mL	Stressed

24	dibromochloromethane		5,001.1	µg/mL	+/-	31.7099	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCK6472)			+/-	280.6899	µg/mL	Unstressed
	Purity 99%				+/-	287.2445	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBP2268V)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
26	Chlorobenzene		5,000.2	µg/mL	+/-	31.7043	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBL8110)			+/-	280.6408	µg/mL	Unstressed
	Purity 99%				+/-	287.1942	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot GC01)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
28	Ethylbenzene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBL9192)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
29	m-Xylene		5,001.8	µg/mL	+/-	31.9033	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBM4841)			+/-	280.7527	µg/mL	Unstressed
	Purity 99%				+/-	287.3077	µg/mL	Stressed
30	p-Xylene		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBJ7329)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
31	o-Xylene		5,001.8	µg/mL	+/-	31.9035	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBL3963)			+/-	280.7539	µg/mL	Unstressed
	Purity 98%				+/-	287.3090	µg/mL	Stressed
32	Styrene		5,001.7	µg/mL	+/-	31.9027	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKCM3200)			+/-	280.7471	µg/mL	Unstressed
	Purity 99%				+/-	287.3020	µg/mL	Stressed
33	Isopropylbenzene (cumene)		5,001.0	µg/mL	+/-	31.8982	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot P15E008)			+/-	280.7078	µg/mL	Unstressed
	Purity 99%				+/-	287.2618	µg/mL	Stressed
34	bromoform		5,000.4	µg/mL	+/-	31.7055	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBJ4835)			+/-	280.6513	µg/mL	Unstressed
	Purity 99%				+/-	287.2050	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		5,000.4	µg/mL	+/-	31.7059	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	280.6548	µg/mL	Unstressed
	Purity 99%				+/-	287.2086	µg/mL	Stressed
36	1,2,3-Trichloropropane		5,000.0	µg/mL	+/-	31.8918	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot BCBH8722V)			+/-	280.6516	µg/mL	Unstressed
	Purity 99%				+/-	287.2044	µg/mL	Stressed
37	n-Propylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKCM4174)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed
38	Bromobenzene		5,001.1	µg/mL	+/-	31.8989	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot WXBC5147V)			+/-	280.7134	µg/mL	Unstressed
	Purity 99%				+/-	287.2675	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCCD0427)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed

40	2-Chlorotoluene		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKCF5243)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
41	4-Chlorotoluene		5,000.1	µg/mL	+/-	31.8925	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKCC8496)			+/-	280.6572	µg/mL	Unstressed
	Purity 99%				+/-	287.2101	µg/mL	Stressed
42	tert-Butylbenzene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot STBJ1937)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		5,000.6	µg/mL	+/-	31.8960	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot WXBC9428V)			+/-	280.6879	µg/mL	Unstressed
	Purity 98%				+/-	287.2415	µg/mL	Stressed
44	sec-Butylbenzene		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKCN2920)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
45	p-Isopropyltoluene (p-Cymene)		5,001.1	µg/mL	+/-	31.8989	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKCN1411)			+/-	280.7134	µg/mL	Unstressed
	Purity 99%				+/-	287.2675	µg/mL	Stressed
46	1,3-Dichlorobenzene		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBZ7498)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
47	1,4-Dichlorobenzene		5,000.8	µg/mL	+/-	31.7083	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	280.6759	µg/mL	Unstressed
	Purity 99%				+/-	287.2301	µg/mL	Stressed
48	n-Butylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09804AE)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed
49	1,2-Dichlorobenzene		5,000.1	µg/mL	+/-	31.7036	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBK7741)			+/-	280.6338	µg/mL	Unstressed
	Purity 99%				+/-	287.1871	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		5,000.3	µg/mL	+/-	31.8935	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot FBL01)			+/-	280.6658	µg/mL	Unstressed
	Purity 97%				+/-	287.2189	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBJ9215)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
52	Hexachlorobutadiene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot 664800)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
53	Naphthalene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBZ8680V)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		5,000.4	µg/mL	+/-	31.8944	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)			+/-	280.6741	µg/mL	Unstressed
	Purity 99%				+/-	287.2273	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)

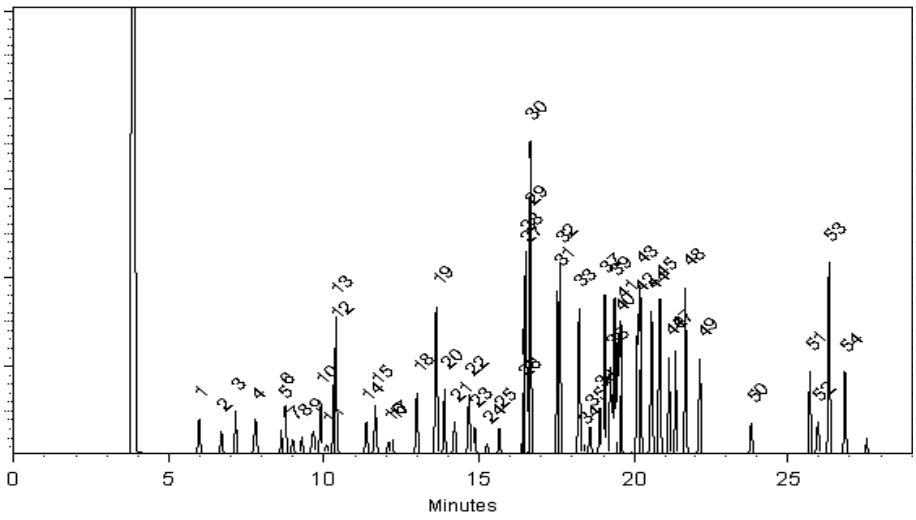
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Walker Workman - Operations Technician I

Date Mixed: 22-Apr-2021 **Balance:** 1128360905

Alexis Shelow - Operations Tech I

Date Passed: 26-Apr-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMIX#1_00073

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577486 **Lot No.:** A0171634

Description : Custom VOC MegaMix® #1 Standard

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

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

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-dichloroethene	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 75-35-4 (Lot SHBK2437)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 75-09-2 (Lot SHBL6169)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
3	trans-1,2-Dichloroethene	5,000.3 µg/mL	+/- 31.7051 µg/mL	Gravimetric
	CAS # 156-60-5 (Lot MKBH9850V)		+/- 280.6478 µg/mL	Unstressed
	Purity 99%		+/- 287.2014 µg/mL	Stressed
4	1,1-Dichloroethane	5,000.8 µg/mL	+/- 31.7079 µg/mL	Gravimetric
	CAS # 75-34-3 (Lot 580900)		+/- 280.6723 µg/mL	Unstressed
	Purity 99%		+/- 287.2265 µg/mL	Stressed
5	2,2-Dichloropropane	5,000.8 µg/mL	+/- 31.8970 µg/mL	Gravimetric
	CAS # 594-20-7 (Lot RD201111)		+/- 280.6965 µg/mL	Unstressed
	Purity 99%		+/- 287.2503 µg/mL	Stressed
6	cis-1,2-Dichloroethene	5,000.6 µg/mL	+/- 31.8957 µg/mL	Gravimetric
	CAS # 156-59-2 (Lot MKCK1803)		+/- 280.6853 µg/mL	Unstressed
	Purity 99%		+/- 287.2388 µg/mL	Stressed
7	chloroform	5,000.6 µg/mL	+/- 31.7067 µg/mL	Gravimetric
	CAS # 67-66-3 (Lot SHBL6923)		+/- 280.6618 µg/mL	Unstressed
	Purity 99%		+/- 287.2158 µg/mL	Stressed

8	Bromochloromethane		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00008541)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
9	1,1,1-trichloroethane		5,000.1	µg/mL	+/-	31.7041	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	280.6383	µg/mL	Unstressed
	Purity 98%				+/-	287.1917	µg/mL	Stressed
10	1,1-Dichloropropene		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 201106JLM)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
11	carbon tetrachloride		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBJ2110)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
12	1,2-Dichloroethane		5,000.4	µg/mL	+/-	31.7059	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot MKCM8716)			+/-	280.6548	µg/mL	Unstressed
	Purity 99%				+/-	287.2086	µg/mL	Stressed
13	Benzene		5,001.0	µg/mL	+/-	31.8982	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBM3620)			+/-	280.7078	µg/mL	Unstressed
	Purity 99%				+/-	287.2618	µg/mL	Stressed
14	Trichloroethene		5,000.8	µg/mL	+/-	31.7079	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBL5816)			+/-	280.6723	µg/mL	Unstressed
	Purity 99%				+/-	287.2265	µg/mL	Stressed
15	1,2-Dichloropropane		5,001.1	µg/mL	+/-	31.7099	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	280.6899	µg/mL	Unstressed
	Purity 99%				+/-	287.2445	µg/mL	Stressed
16	bromodichloromethane		5,000.2	µg/mL	+/-	31.7043	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCK3742)			+/-	280.6408	µg/mL	Unstressed
	Purity 99%				+/-	287.1942	µg/mL	Stressed
17	Dibromomethane		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10215970)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
18	cis-1,3-Dichloropropene		5,001.9	µg/mL	+/-	31.7154	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot D26147-1217)			+/-	280.7390	µg/mL	Unstressed
	Purity 99%				+/-	287.2947	µg/mL	Stressed
19	Toluene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot SHBM6128)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
20	trans-1,3-Dichloropropene		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot RP201030)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
21	1,1,2-Trichloroethane		5,000.9	µg/mL	+/-	31.7087	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	280.6794	µg/mL	Unstressed
	Purity 99%				+/-	287.2337	µg/mL	Stressed
22	1,3-Dichloropropane		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBC6265)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
23	Tetrachloroethene		5,000.8	µg/mL	+/-	31.7079	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBJ7422)			+/-	280.6723	µg/mL	Unstressed
	Purity 99%				+/-	287.2265	µg/mL	Stressed

24	dibromochloromethane		5,001.1	µg/mL	+/-	31.7099	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCK6472)			+/-	280.6899	µg/mL	Unstressed
	Purity 99%				+/-	287.2445	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 106-93-4	(Lot BCBP2268V)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
26	Chlorobenzene		5,000.2	µg/mL	+/-	31.7043	µg/mL	Gravimetric
	CAS # 108-90-7	(Lot SHBL8110)			+/-	280.6408	µg/mL	Unstressed
	Purity 99%				+/-	287.1942	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		5,000.9	µg/mL	+/-	31.8976	µg/mL	Gravimetric
	CAS # 630-20-6	(Lot GC01)			+/-	280.7022	µg/mL	Unstressed
	Purity 99%				+/-	287.2560	µg/mL	Stressed
28	Ethylbenzene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 100-41-4	(Lot SHBL9192)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
29	m-Xylene		5,001.8	µg/mL	+/-	31.9033	µg/mL	Gravimetric
	CAS # 108-38-3	(Lot SHBM4841)			+/-	280.7527	µg/mL	Unstressed
	Purity 99%				+/-	287.3077	µg/mL	Stressed
30	p-Xylene		5,000.5	µg/mL	+/-	31.8950	µg/mL	Gravimetric
	CAS # 106-42-3	(Lot SHBJ7329)			+/-	280.6797	µg/mL	Unstressed
	Purity 99%				+/-	287.2331	µg/mL	Stressed
31	o-Xylene		5,001.8	µg/mL	+/-	31.9035	µg/mL	Gravimetric
	CAS # 95-47-6	(Lot SHBL3963)			+/-	280.7539	µg/mL	Unstressed
	Purity 98%				+/-	287.3090	µg/mL	Stressed
32	Styrene		5,001.7	µg/mL	+/-	31.9027	µg/mL	Gravimetric
	CAS # 100-42-5	(Lot MKCM3200)			+/-	280.7471	µg/mL	Unstressed
	Purity 99%				+/-	287.3020	µg/mL	Stressed
33	Isopropylbenzene (cumene)		5,001.0	µg/mL	+/-	31.8982	µg/mL	Gravimetric
	CAS # 98-82-8	(Lot P15E008)			+/-	280.7078	µg/mL	Unstressed
	Purity 99%				+/-	287.2618	µg/mL	Stressed
34	bromoform		5,000.4	µg/mL	+/-	31.7055	µg/mL	Gravimetric
	CAS # 75-25-2	(Lot SHBJ4835)			+/-	280.6513	µg/mL	Unstressed
	Purity 99%				+/-	287.2050	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		5,000.4	µg/mL	+/-	31.7059	µg/mL	Gravimetric
	CAS # 79-34-5	(Lot CFA4D)			+/-	280.6548	µg/mL	Unstressed
	Purity 99%				+/-	287.2086	µg/mL	Stressed
36	1,2,3-Trichloropropane		5,000.0	µg/mL	+/-	31.8918	µg/mL	Gravimetric
	CAS # 96-18-4	(Lot BCBH8722V)			+/-	280.6516	µg/mL	Unstressed
	Purity 99%				+/-	287.2044	µg/mL	Stressed
37	n-Propylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 103-65-1	(Lot MKCM4174)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed
38	Bromobenzene		5,001.1	µg/mL	+/-	31.8989	µg/mL	Gravimetric
	CAS # 108-86-1	(Lot WXBC5147V)			+/-	280.7134	µg/mL	Unstressed
	Purity 99%				+/-	287.2675	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 108-67-8	(Lot BCCD0427)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed

40	2-Chlorotoluene		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 95-49-8	(Lot MKCF5243)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
41	4-Chlorotoluene		5,000.1	µg/mL	+/-	31.8925	µg/mL	Gravimetric
	CAS # 106-43-4	(Lot MKCC8496)			+/-	280.6572	µg/mL	Unstressed
	Purity 99%				+/-	287.2101	µg/mL	Stressed
42	tert-Butylbenzene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 98-06-6	(Lot STBJ1937)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		5,000.6	µg/mL	+/-	31.8960	µg/mL	Gravimetric
	CAS # 95-63-6	(Lot WXBC9428V)			+/-	280.6879	µg/mL	Unstressed
	Purity 98%				+/-	287.2415	µg/mL	Stressed
44	sec-Butylbenzene		5,000.2	µg/mL	+/-	31.8931	µg/mL	Gravimetric
	CAS # 135-98-8	(Lot MKCN2920)			+/-	280.6629	µg/mL	Unstressed
	Purity 99%				+/-	287.2158	µg/mL	Stressed
45	p-Isopropyltoluene (p-Cymene)		5,001.1	µg/mL	+/-	31.8989	µg/mL	Gravimetric
	CAS # 99-87-6	(Lot MKCN1411)			+/-	280.7134	µg/mL	Unstressed
	Purity 99%				+/-	287.2675	µg/mL	Stressed
46	1,3-Dichlorobenzene		5,000.5	µg/mL	+/-	31.7063	µg/mL	Gravimetric
	CAS # 541-73-1	(Lot BCBZ7498)			+/-	280.6583	µg/mL	Unstressed
	Purity 99%				+/-	287.2122	µg/mL	Stressed
47	1,4-Dichlorobenzene		5,000.8	µg/mL	+/-	31.7083	µg/mL	Gravimetric
	CAS # 106-46-7	(Lot MKBS4401V)			+/-	280.6759	µg/mL	Unstressed
	Purity 99%				+/-	287.2301	µg/mL	Stressed
48	n-Butylbenzene		5,001.6	µg/mL	+/-	31.9021	µg/mL	Gravimetric
	CAS # 104-51-8	(Lot 09804AE)			+/-	280.7414	µg/mL	Unstressed
	Purity 99%				+/-	287.2963	µg/mL	Stressed
49	1,2-Dichlorobenzene		5,000.1	µg/mL	+/-	31.7036	µg/mL	Gravimetric
	CAS # 95-50-1	(Lot SHBK7741)			+/-	280.6338	µg/mL	Unstressed
	Purity 99%				+/-	287.1871	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		5,000.3	µg/mL	+/-	31.8935	µg/mL	Gravimetric
	CAS # 96-12-8	(Lot FBL01)			+/-	280.6658	µg/mL	Unstressed
	Purity 97%				+/-	287.2189	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 120-82-1	(Lot SHBJ9215)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
52	Hexachlorobutadiene		5,001.3	µg/mL	+/-	31.9001	µg/mL	Gravimetric
	CAS # 87-68-3	(Lot 664800)			+/-	280.7246	µg/mL	Unstressed
	Purity 99%				+/-	287.2790	µg/mL	Stressed
53	Naphthalene		5,000.8	µg/mL	+/-	31.8970	µg/mL	Gravimetric
	CAS # 91-20-3	(Lot MKBZ8680V)			+/-	280.6965	µg/mL	Unstressed
	Purity 99%				+/-	287.2503	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		5,000.4	µg/mL	+/-	31.8944	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)			+/-	280.6741	µg/mL	Unstressed
	Purity 99%				+/-	287.2273	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)

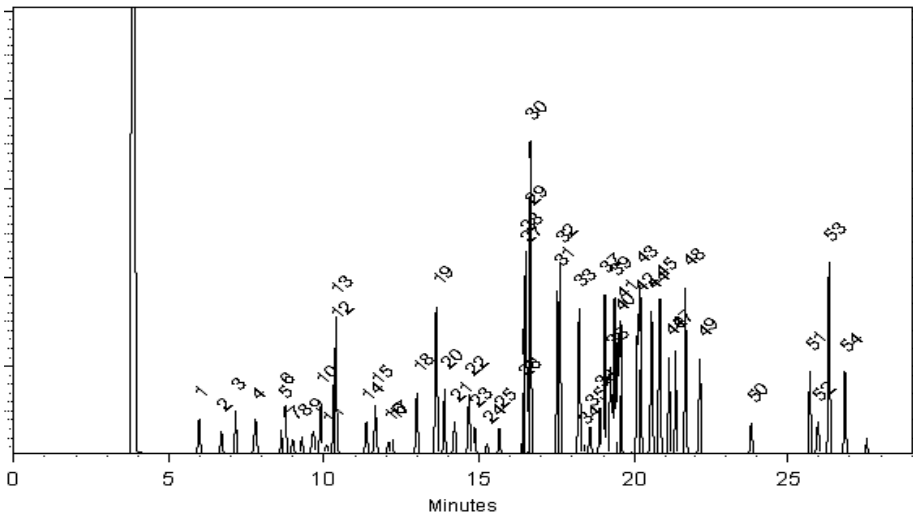
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Walker Workman - Operations Technician I

Date Mixed: 22-Apr-2021 **Balance:** 1128360905

Alexis Shelow - Operations Tech I

Date Passed: 26-Apr-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMix#2_00045

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577487 **Lot No.:** A0173454

Description : Custom VOC MegaMix® #2 Standard

Custom VOC MegaMix® #2 Standard 5000-62500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : June 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

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

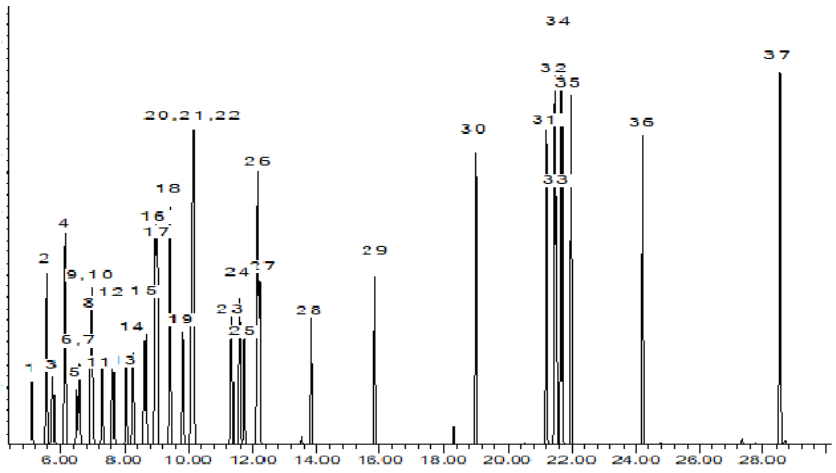
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Russ Bookhamer - Operations Technician I

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

Alexis Shelow - Operations Tech I

Date Passed: 30-Jun-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMix#2_00054

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577487 **Lot No.:** A0173454

Description : Custom VOC MegaMix® #2 Standard

Custom VOC MegaMix® #2 Standard 5000-62500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : June 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

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

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

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

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

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

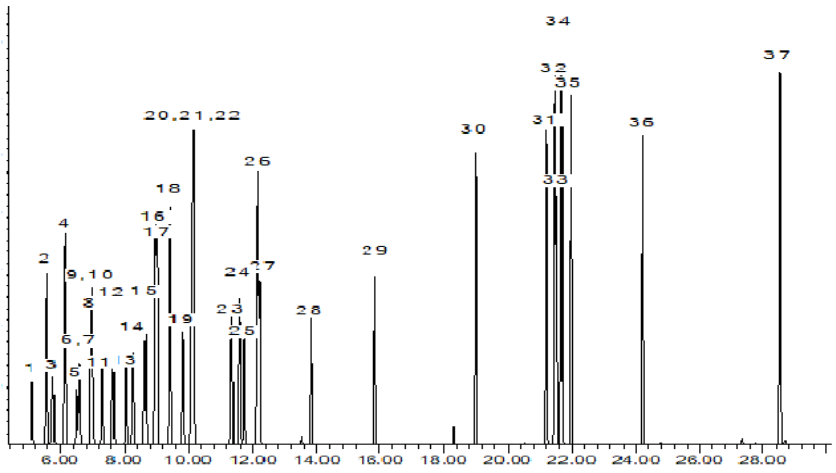
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Russ Bookhamer - Operations Technician I

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

Alexis Shelow - Operations Tech I

Date Passed: 30-Jun-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMix#2_00073

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577487 **Lot No.:** A0173454

Description : Custom VOC MegaMix® #2 Standard

Custom VOC MegaMix® #2 Standard 5000-62500µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : June 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

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

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

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

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

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

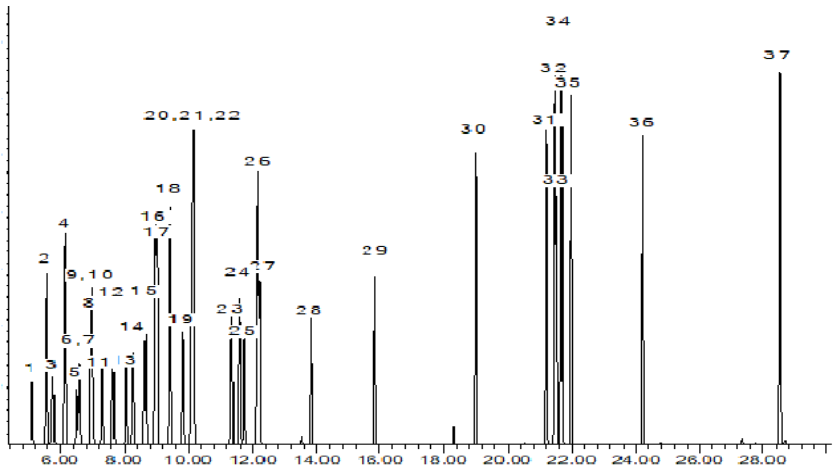
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Russ Bookhamer - Operations Technician I

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

Alexis Shelow - Operations Tech I

Date Passed: 30-Jun-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_Q_Ketones_00044

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569721.SEC **Lot No.:** A0167987

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

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

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

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

Ship: Ambient

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

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone		12,567.5 µg/mL	+/- 73.5855 µg/mL		Gravimetric
	CAS # 67-64-1.SEC	(Lot S25F025)		+/- 758.3030 µg/mL		Unstressed
	Purity 99%			+/- 760.1031 µg/mL		Stressed
2	2-Butanone (MEK)		12,553.0 µg/mL	+/- 73.5006 µg/mL		Gravimetric
	CAS # 78-93-3.SEC	(Lot RGZ2A)		+/- 757.4280 µg/mL		Unstressed
	Purity 99%			+/- 759.2261 µg/mL		Stressed
3	4-Methyl-2-pentanone (MIBK)		12,563.5 µg/mL	+/- 73.5621 µg/mL		Gravimetric
	CAS # 108-10-1.SEC	(Lot E29T040)		+/- 758.0616 µg/mL		Unstressed
	Purity 99%			+/- 759.8611 µg/mL		Stressed
4	2-Hexanone		12,527.8 µg/mL	+/- 73.3532 µg/mL		Gravimetric
	CAS # 591-78-6.SEC	(Lot Y3TUO)		+/- 755.9093 µg/mL		Unstressed
	Purity 98%			+/- 757.7037 µg/mL		Stressed

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

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

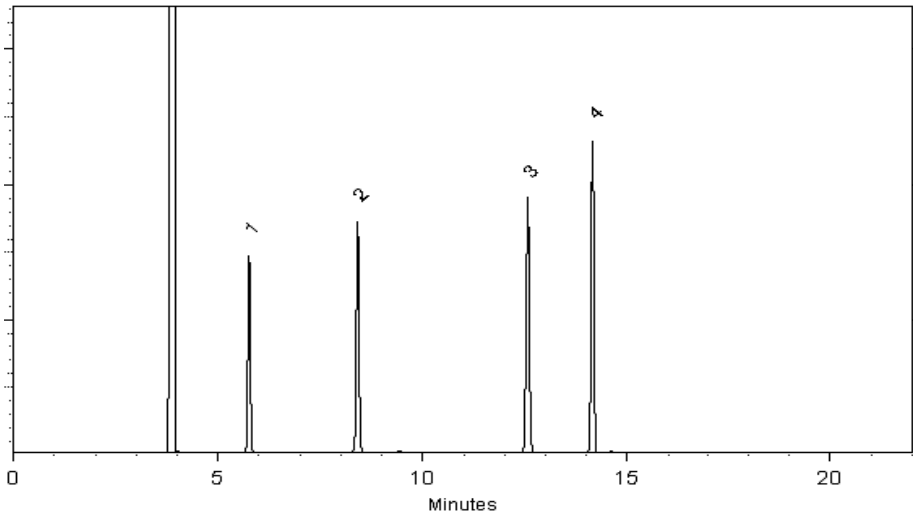
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Cory Meyer - Operations Tech I

Date Mixed: 11-Jan-2021 **Balance:** 1127510105

Marlina Cowan - Operations Tech I

Date Passed: 14-Jan-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_Q_Ketones_00053

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569721.SEC **Lot No.:** A0167987

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

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

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

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

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,567.5 µg/mL	+/- 73.5855 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot S25F025)		+/- 758.3030 µg/mL	Unstressed
	Purity 99%		+/- 760.1031 µg/mL	Stressed
2	2-Butanone (MEK)	12,553.0 µg/mL	+/- 73.5006 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 757.4280 µg/mL	Unstressed
	Purity 99%		+/- 759.2261 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,563.5 µg/mL	+/- 73.5621 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 758.0616 µg/mL	Unstressed
	Purity 99%		+/- 759.8611 µg/mL	Stressed
4	2-Hexanone	12,527.8 µg/mL	+/- 73.3532 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 755.9093 µg/mL	Unstressed
	Purity 98%		+/- 757.7037 µg/mL	Stressed

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

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

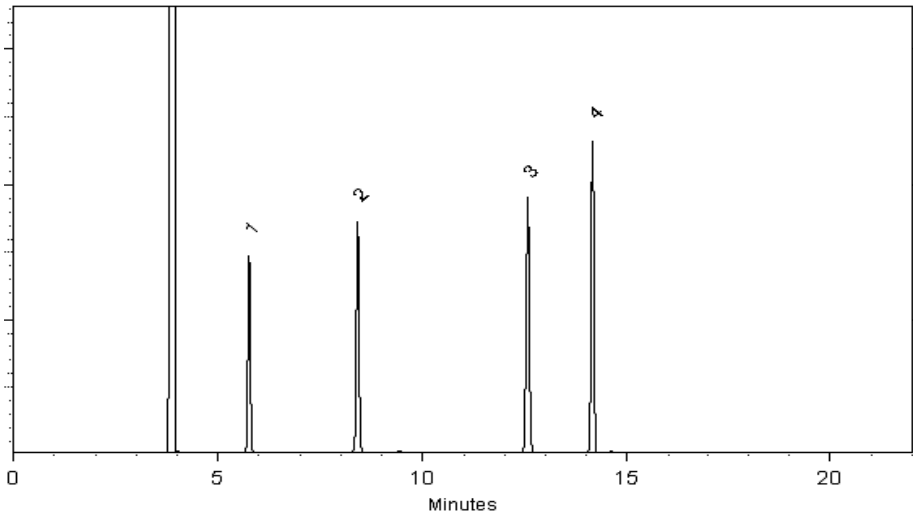
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Cory Meyer - Operations Tech I

Date Mixed: 11-Jan-2021 **Balance:** 1127510105

Marlina Cowan - Operations Tech I

Date Passed: 14-Jan-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_Q_Ketones_00073

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569721.SEC **Lot No.:** A0178490

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

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

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

Expiration Date : November 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,504.0 µg/mL	+/- 73.2137 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot S25F025)		+/- 754.4715 µg/mL	Unstressed
	Purity 99%		+/- 756.2625 µg/mL	Stressed
2	2-Butanone (MEK)	12,502.0 µg/mL	+/- 73.2020 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 754.3508 µg/mL	Unstressed
	Purity 99%		+/- 756.1415 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,508.7 µg/mL	+/- 73.2410 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 754.7530 µg/mL	Unstressed
	Purity 99%		+/- 756.5447 µg/mL	Stressed
4	2-Hexanone	12,507.3 µg/mL	+/- 73.2332 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 754.6726 µg/mL	Unstressed
	Purity 99%		+/- 756.4641 µg/mL	Stressed

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

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

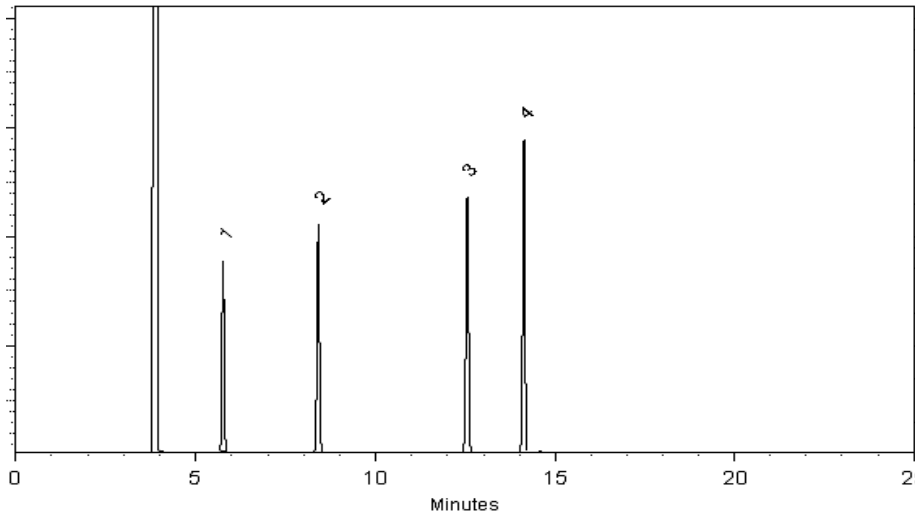
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Jeff Rhoades - Mix Technician

Date Mixed: 15-Nov-2021 **Balance:** 1127510105

Clara Windle - Operations Technician I

Date Passed: 16-Nov-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_QC_2K_GAS_00069

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577488.SEC **Lot No.:** A0172021

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, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,014.7 µg/mL	+/- 21.3347	µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 26871)		+/- 114.3626	µg/mL	Unstressed
	Purity 99%		+/- 116.9742	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,018.4 µg/mL	+/- 22.6573	µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 114.8157	µg/mL	Unstressed
	Purity 99%		+/- 117.4265	µg/mL	Stressed
3	Vinyl chloride	2,011.6 µg/mL	+/- 18.1502	µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 113.6387	µg/mL	Unstressed
	Purity 99%		+/- 116.2584	µg/mL	Stressed
4	1,3-Butadiene	2,020.9 µg/mL	+/- 15.6985	µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 26996)		+/- 113.7849	µg/mL	Unstressed
	Purity 99%		+/- 116.4253	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,014.3 µg/mL	+/- 52.5641	µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot 00017022)		+/- 124.0186	µg/mL	Unstressed
	Purity 99%		+/- 126.4297	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,009.7 µg/mL	+/- 28.6335	µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/- 115.6738	µg/mL	Unstressed
	Purity 99%		+/- 118.2437	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 11.7371	µg/mL	Gravimetric
	CAS # 75-43-4 * (Lot 10930400)		+/- 112.1494	µg/mL	Unstressed
	Purity 99%		+/- 114.7730	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,010.6	µg/mL	+/-	32.3019	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)			+/-	116.6827	µg/mL	Unstressed
	Purity 99%				+/-	119.2330	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,020.4	µg/mL	+/-	21.8150	µg/mL	Gravimetric
	CAS # 354-23-4 *	(Lot Q9B-64)			+/-	114.7647	µg/mL	Unstressed
	Purity 99%				+/-	117.3819	µg/mL	Stressed

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

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

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

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

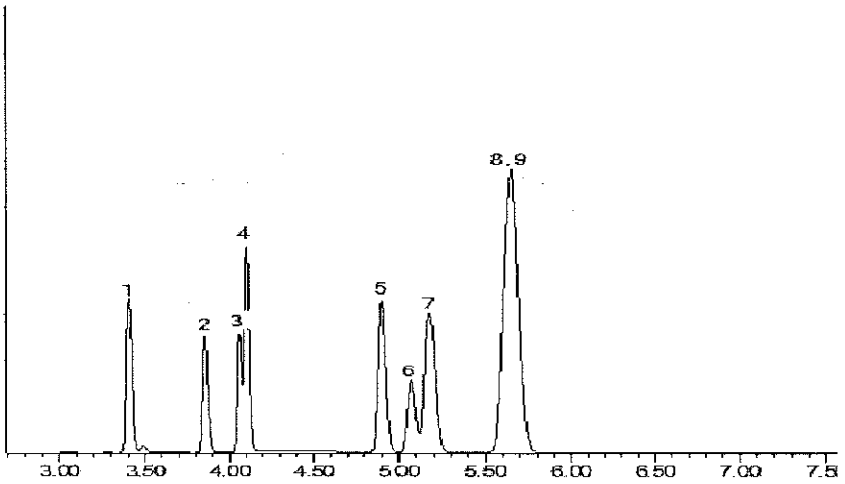
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Lane Kibe - Mix Technician

Date Mixed: 04-May-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 17-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577488.SEC **Lot No.:** A0172021

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, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,014.7 µg/mL	+/- 21.3347	µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 26871)		+/- 114.3626	µg/mL	Unstressed
	Purity 99%		+/- 116.9742	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,018.4 µg/mL	+/- 22.6573	µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 114.8157	µg/mL	Unstressed
	Purity 99%		+/- 117.4265	µg/mL	Stressed
3	Vinyl chloride	2,011.6 µg/mL	+/- 18.1502	µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 113.6387	µg/mL	Unstressed
	Purity 99%		+/- 116.2584	µg/mL	Stressed
4	1,3-Butadiene	2,020.9 µg/mL	+/- 15.6985	µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 26996)		+/- 113.7849	µg/mL	Unstressed
	Purity 99%		+/- 116.4253	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,014.3 µg/mL	+/- 52.5641	µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot 00017022)		+/- 124.0186	µg/mL	Unstressed
	Purity 99%		+/- 126.4297	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,009.7 µg/mL	+/- 28.6335	µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/- 115.6738	µg/mL	Unstressed
	Purity 99%		+/- 118.2437	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 11.7371	µg/mL	Gravimetric
	CAS # 75-43-4 * (Lot 10930400)		+/- 112.1494	µg/mL	Unstressed
	Purity 99%		+/- 114.7730	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,010.6	µg/mL	+/-	32.3019	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)			+/-	116.6827	µg/mL	Unstressed
	Purity 99%				+/-	119.2330	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,020.4	µg/mL	+/-	21.8150	µg/mL	Gravimetric
	CAS # 354-23-4 *	(Lot Q9B-64)			+/-	114.7647	µg/mL	Unstressed
	Purity 99%				+/-	117.3819	µg/mL	Stressed

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

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

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

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

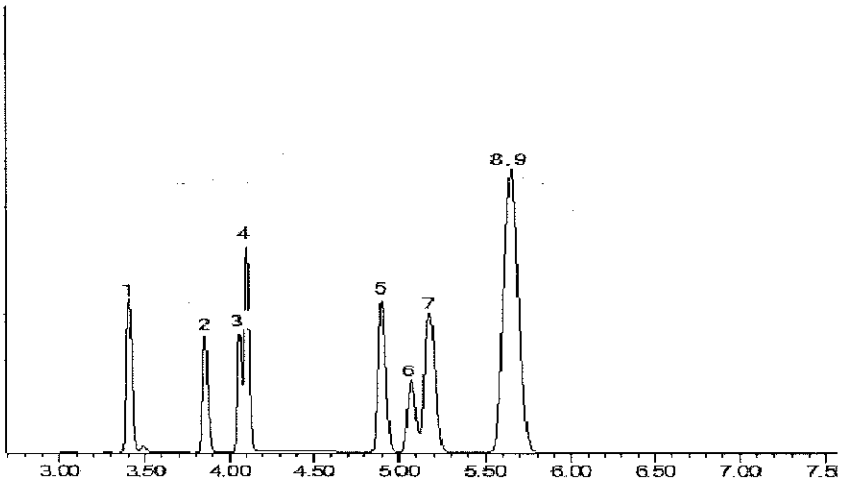
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Lane Kibe - Mix Technician

Date Mixed: 04-May-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 17-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

Manufacturing Notes:

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Handling Notes:

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Reagent

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

Catalog No. : 577488.SEC **Lot No.:** A0172021

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, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,014.7 µg/mL	+/- 21.3347	µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 26871)		+/- 114.3626	µg/mL	Unstressed
	Purity 99%		+/- 116.9742	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,018.4 µg/mL	+/- 22.6573	µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 114.8157	µg/mL	Unstressed
	Purity 99%		+/- 117.4265	µg/mL	Stressed
3	Vinyl chloride	2,011.6 µg/mL	+/- 18.1502	µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 113.6387	µg/mL	Unstressed
	Purity 99%		+/- 116.2584	µg/mL	Stressed
4	1,3-Butadiene	2,020.9 µg/mL	+/- 15.6985	µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 26996)		+/- 113.7849	µg/mL	Unstressed
	Purity 99%		+/- 116.4253	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,014.3 µg/mL	+/- 52.5641	µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot 00017022)		+/- 124.0186	µg/mL	Unstressed
	Purity 99%		+/- 126.4297	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,009.7 µg/mL	+/- 28.6335	µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/- 115.6738	µg/mL	Unstressed
	Purity 99%		+/- 118.2437	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,000.0 µg/mL	+/- 11.7371	µg/mL	Gravimetric
	CAS # 75-43-4 * (Lot 10930400)		+/- 112.1494	µg/mL	Unstressed
	Purity 99%		+/- 114.7730	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)		2,010.6	µg/mL	+/-	32.3019	µg/mL	Gravimetric
	CAS # 75-69-4.SEC	(Lot 253600)			+/-	116.6827	µg/mL	Unstressed
	Purity 99%				+/-	119.2330	µg/mL	Stressed
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		2,020.4	µg/mL	+/-	21.8150	µg/mL	Gravimetric
	CAS # 354-23-4 *	(Lot Q9B-64)			+/-	114.7647	µg/mL	Unstressed
	Purity 99%				+/-	117.3819	µg/mL	Stressed

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

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

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

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

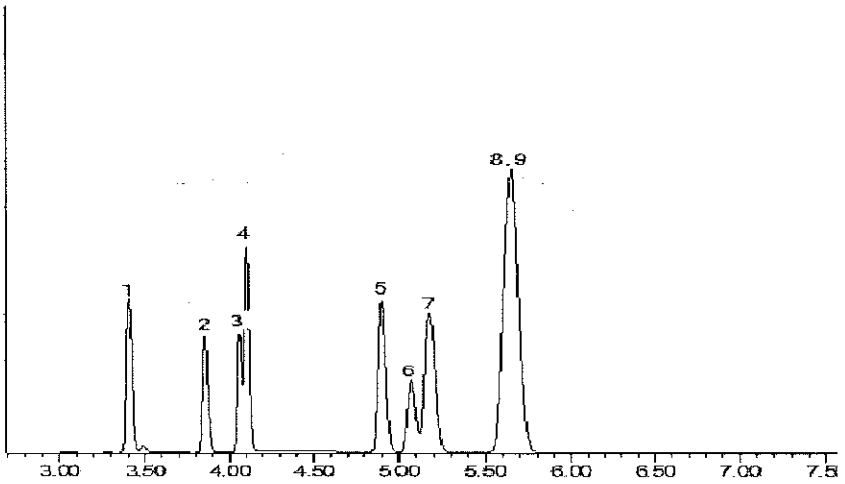
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Lane Kibe - Mix Technician

Date Mixed: 04-May-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 17-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V#2B_00251

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577493 **Lot No.:** A0171815

Description : Custom VOC MegaMix®.SEC #1 Standard

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

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

Expiration Date : April 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-Dichloroethene	1,003.8 µg/mL	+/- 7.1628 µg/mL	Gravimetric
	CAS # 75-35-4.SEC (Lot 9201700)		+/- 56.4323 µg/mL	Unstressed
	Purity 99%		+/- 57.7457 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	1,001.8 µg/mL	+/- 7.1486 µg/mL	Gravimetric
	CAS # 75-09-2.SEC (Lot FGM02)		+/- 56.3199 µg/mL	Unstressed
	Purity 99%		+/- 57.6306 µg/mL	Stressed
3	trans-1,2-Dichloroethene	1,000.3 µg/mL	+/- 7.1382 µg/mL	Gravimetric
	CAS # 156-60-5.SEC (Lot TS5UB)		+/- 56.2383 µg/mL	Unstressed
	Purity 99%		+/- 57.5472 µg/mL	Stressed
4	1,1-Dichloroethane	1,002.0 µg/mL	+/- 7.1503 µg/mL	Gravimetric
	CAS # 75-34-3.SEC (Lot 7482000)		+/- 56.3339 µg/mL	Unstressed
	Purity 99%		+/- 57.6450 µg/mL	Stressed
5	2,2-Dichloropropane	1,000.0 µg/mL	+/- 7.1026 µg/mL	Gravimetric
	CAS # 594-20-7.SEC (Lot I7E8E)		+/- 56.2188 µg/mL	Unstressed
	Purity 98%		+/- 57.5274 µg/mL	Stressed
6	cis-1,2-Dichloroethene	1,000.1 µg/mL	+/- 7.1028 µg/mL	Gravimetric
	CAS # 156-59-2.SEC (Lot YZO5O)		+/- 56.2207 µg/mL	Unstressed
	Purity 99%		+/- 57.5294 µg/mL	Stressed
7	Chloroform	1,000.8 µg/mL	+/- 7.1414 µg/mL	Gravimetric
	CAS # 67-66-3.SEC (Lot 1297547)		+/- 56.2636 µg/mL	Unstressed
	Purity 99%		+/- 57.5731 µg/mL	Stressed

8	Bromochloromethane		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 8529200)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
9	1,1,1-trichloroethane		1,000.3	µg/mL	+/-	7.1383	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	56.2391	µg/mL	Unstressed
	Purity 98%				+/-	57.5479	µg/mL	Stressed
10	1,1-Dichloropropene		1,002.5	µg/mL	+/-	7.1204	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 8541600)			+/-	56.3597	µg/mL	Unstressed
	Purity 95%				+/-	57.6716	µg/mL	Stressed
11	Carbon tetrachloride		1,000.8	µg/mL	+/-	7.1414	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	56.2636	µg/mL	Unstressed
	Purity 99%				+/-	57.5731	µg/mL	Stressed
12	1,2-Dichloroethane		1,000.6	µg/mL	+/-	7.1407	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot 00016165)			+/-	56.2576	µg/mL	Unstressed
	Purity 99%				+/-	57.5669	µg/mL	Stressed
13	Benzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
14	Trichloroethene		1,000.9	µg/mL	+/-	7.1423	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	56.2708	µg/mL	Unstressed
	Purity 99%				+/-	57.5804	µg/mL	Stressed
15	1,2-Dichloropropane		1,000.1	µg/mL	+/-	7.1371	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)			+/-	56.2293	µg/mL	Unstressed
	Purity 99%				+/-	57.5380	µg/mL	Stressed
16	Bromodichloromethane		1,000.8	µg/mL	+/-	7.1418	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)			+/-	56.2662	µg/mL	Unstressed
	Purity 99%				+/-	57.5757	µg/mL	Stressed
17	Dibromomethane		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot MOKKJ)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
18	cis-1,3-Dichloropropene		1,000.9	µg/mL	+/-	7.1425	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/-	56.2723	µg/mL	Unstressed
	Purity 98%				+/-	57.5819	µg/mL	Stressed
19	Toluene		1,000.0	µg/mL	+/-	7.1026	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	56.2193	µg/mL	Unstressed
	Purity 99%				+/-	57.5279	µg/mL	Stressed
20	trans-1,3-Dichloropropene		1,002.1	µg/mL	+/-	7.1513	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	56.3417	µg/mL	Unstressed
	Purity 96%				+/-	57.6530	µg/mL	Stressed
21	1,1,2-Trichloroethane		1,001.3	µg/mL	+/-	7.1450	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)			+/-	56.2917	µg/mL	Unstressed
	Purity 99%				+/-	57.6018	µg/mL	Stressed
22	1,3-Dichloropropane		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
23	Tetrachloroethene		1,000.2	µg/mL	+/-	7.1378	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	56.2350	µg/mL	Unstressed
	Purity 99%				+/-	57.5437	µg/mL	Stressed

24	Dibromochloromethane		1,000.5	µg/mL	+/-	7.1396	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)			+/-	56.2489	µg/mL	Unstressed
	Purity 97%				+/-	57.5580	µg/mL	Stressed
25	1,2-Dibromoethane (EDB)		1,000.1	µg/mL	+/-	7.1032	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 7511900)			+/-	56.2235	µg/mL	Unstressed
	Purity 99%				+/-	57.5322	µg/mL	Stressed
26	Chlorobenzene		1,001.4	µg/mL	+/-	7.1460	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	56.2995	µg/mL	Unstressed
	Purity 99%				+/-	57.6098	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		1,000.1	µg/mL	+/-	7.1032	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)			+/-	56.2235	µg/mL	Unstressed
	Purity 99%				+/-	57.5322	µg/mL	Stressed
28	Ethylbenzene		1,000.2	µg/mL	+/-	7.1035	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)			+/-	56.2263	µg/mL	Unstressed
	Purity 99%				+/-	57.5351	µg/mL	Stressed
29	m-Xylene		1,000.2	µg/mL	+/-	7.1035	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot 7ZV6F)			+/-	56.2263	µg/mL	Unstressed
	Purity 99%				+/-	57.5351	µg/mL	Stressed
30	p-Xylene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot D6UOA)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
31	o-Xylene		1,000.1	µg/mL	+/-	7.1028	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)			+/-	56.2207	µg/mL	Unstressed
	Purity 99%				+/-	57.5294	µg/mL	Stressed
32	Styrene		1,000.1	µg/mL	+/-	7.1033	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot OFIOL-IA)			+/-	56.2242	µg/mL	Unstressed
	Purity 99%				+/-	57.5330	µg/mL	Stressed
33	Isopropylbenzene (cumene)		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot JN4EC)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
34	Bromoform		1,001.7	µg/mL	+/-	7.1485	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 9170700)			+/-	56.3193	µg/mL	Unstressed
	Purity 99%				+/-	57.6300	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		1,001.6	µg/mL	+/-	7.1478	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot BCCB0724)			+/-	56.3139	µg/mL	Unstressed
	Purity 98%				+/-	57.6245	µg/mL	Stressed
36	1,2,3-Trichloropropane		1,000.0	µg/mL	+/-	7.1026	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)			+/-	56.2193	µg/mL	Unstressed
	Purity 99%				+/-	57.5279	µg/mL	Stressed
37	n-Propylbenzene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
38	Bromobenzene		1,000.2	µg/mL	+/-	7.1034	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 8DKWJ)			+/-	56.2256	µg/mL	Unstressed
	Purity 99%				+/-	57.5344	µg/mL	Stressed
39	1,3,5-Trimethylbenzene		1,000.1	µg/mL	+/-	7.1028	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot TOOOF)			+/-	56.2207	µg/mL	Unstressed
	Purity 99%				+/-	57.5294	µg/mL	Stressed

40	2-Chlorotoluene		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot BRHPM)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
41	4-Chlorotoluene		1,000.1	µg/mL	+/-	7.1030	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot S5SKD)			+/-	56.2221	µg/mL	Unstressed
	Purity 99%				+/-	57.5308	µg/mL	Stressed
42	tert-Butylbenzene		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
44	sec-Butylbenzene		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot O4HRF)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
45	4-Isopropyltoluene (p-cymene)		1,000.1	µg/mL	+/-	7.1029	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 8380000)			+/-	56.2214	µg/mL	Unstressed
	Purity 99%				+/-	57.5301	µg/mL	Stressed
46	1,3-Dichlorobenzene		1,000.1	µg/mL	+/-	7.1365	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	56.2251	µg/mL	Unstressed
	Purity 99%				+/-	57.5337	µg/mL	Stressed
47	1,4-Dichlorobenzene		1,002.5	µg/mL	+/-	7.1538	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot YWKDC-MK)			+/-	56.3612	µg/mL	Unstressed
	Purity 99%				+/-	57.6729	µg/mL	Stressed
48	n-Butylbenzene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
49	1,2-Dichlorobenzene		1,001.6	µg/mL	+/-	7.1475	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/-	56.3114	µg/mL	Unstressed
	Purity 99%				+/-	57.6220	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		1,000.0	µg/mL	+/-	7.1025	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot Q135-105)			+/-	56.2179	µg/mL	Unstressed
	Purity 99%				+/-	57.5265	µg/mL	Stressed
51	1,2,4-Trichlorobenzene		1,000.1	µg/mL	+/-	7.1027	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot IGLFA)			+/-	56.2200	µg/mL	Unstressed
	Purity 99%				+/-	57.5286	µg/mL	Stressed
52	Hexachlorobutadiene		1,000.8	µg/mL	+/-	7.1079	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 8532700)			+/-	56.2614	µg/mL	Unstressed
	Purity 97%				+/-	57.5709	µg/mL	Stressed
53	Naphthalene		1,000.1	µg/mL	+/-	7.1031	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot SKZ5N)			+/-	56.2228	µg/mL	Unstressed
	Purity 99%				+/-	57.5315	µg/mL	Stressed
54	1,2,3-Trichlorobenzene		1,000.7	µg/mL	+/-	7.1076	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/-	56.2588	µg/mL	Unstressed
	Purity 98%				+/-	57.5683	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)

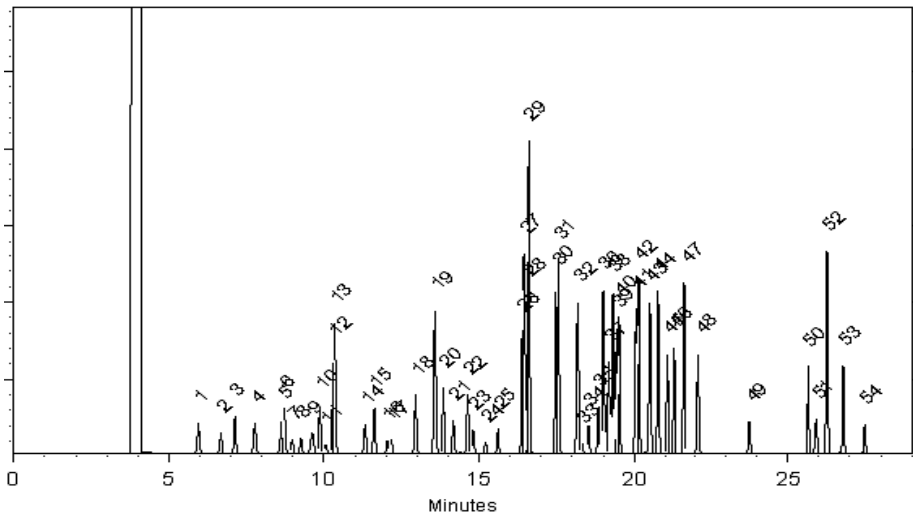
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Bradley Meyer - Mix Technician

Date Mixed: 28-Apr-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 30-Apr-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V#2B_00260

110 Benner Circle
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Fax: (814)353-1309

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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. : 56734 **Lot No.:** A0171518

Description : Custom V # 2B Standard

Custom V #2B Standard 12,500-125,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : April 30, 2023 **Storage:** 0°C or colder

Ship: Ambient

Elution Order	Compound	CAS #	Percent Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Propanol (isopropanol)	67-63-0	99%	25,038.0 µg/mL	+/- 146.6030 µg/mL
2	tert-Butanol (TBA)	75-65-0	99%	25,047.0 µg/mL	+/- 146.6557 µg/mL
3	Propionitrile	107-12-0	99%	25,015.0 µg/mL	+/- 146.4683 µg/mL
4	Methacrylonitrile	126-98-7	99%	12,515.0 µg/mL	+/- 73.2781 µg/mL
5	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	62,529.0 µg/mL	+/- 366.1210 µg/mL
6	1-Butanol	71-36-3	99%	125,072.0 µg/mL	+/- 732.2863 µg/mL
7	1,4-Dioxane	123-91-1	99%	62,509.0 µg/mL	+/- 366.0039 µg/mL
8	trans-1,4-dichloro-2-butene	110-57-6	95%	12,504.9 µg/mL	+/- 73.2186 µg/mL
Solvent:	P&T Methanol	67-56-1	99%		

Specific Reference Material Notes:

This RM (Reference Material) is not a CRM (Certified Reference Material) due to the 1-butanol concentration exceeding the maximum concentration on Restek's ISO Guide 34 scope of accreditation.

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

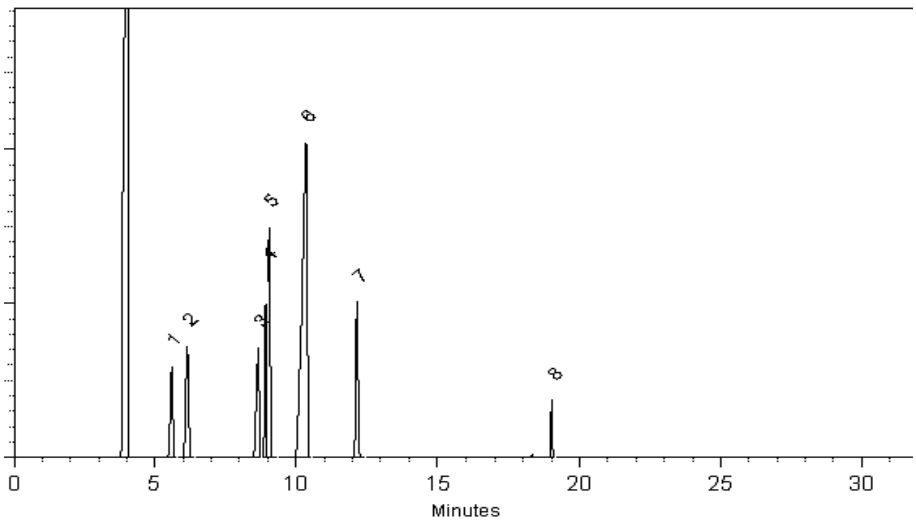
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Erik Strommer - Operations Tech I

Date Mixed: 20-Apr-2021 **Balance:** B707717271

Marlina Cowan - Operations Tech I

Date Passed: 23-Apr-2021

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

General Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the RM 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.

Uncertainty Value Notes:

- Uncertainties are determined using data from balances and glassware, raw material purity, and, when significant, equipment tolerances or calibration results.

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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_V_Ketones_00044

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569721 **Lot No.:** A0168313

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

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

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

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

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,516.4 µg/mL	+/- 73.2863 µg/mL	Gravimetric
	CAS # 67-64-1 (Lot SHBM6699)		+/- 755.2197 µg/mL	Unstressed
	Purity 99%		+/- 757.0124 µg/mL	Stressed
2	2-Butanone (MEK)	12,515.2 µg/mL	+/- 73.2792 µg/mL	Gravimetric
	CAS # 78-93-3 (Lot SHBL6194)		+/- 755.1473 µg/mL	Unstressed
	Purity 99%		+/- 756.9399 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,512.0 µg/mL	+/- 73.2605 µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBM2797)		+/- 754.9542 µg/mL	Unstressed
	Purity 99%		+/- 756.7463 µg/mL	Stressed
4	2-Hexanone	12,504.4 µg/mL	+/- 73.2160 µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKCL1599)		+/- 754.4956 µg/mL	Unstressed
	Purity 99%		+/- 756.2867 µg/mL	Stressed

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

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

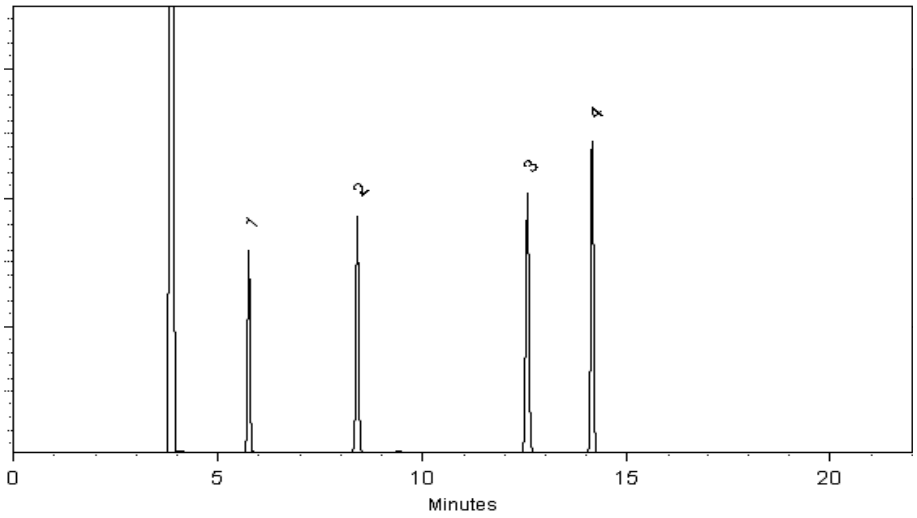
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Cathleen Soltis - Mix Technician

Date Mixed: 20-Jan-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 21-Jan-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

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Certificate #3222.01

ilac-MRA

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569721 **Lot No.:** A0174287

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

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

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

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

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,526.4 µg/mL	+/- 73.3448 µg/mL	Gravimetric
	CAS # 67-64-1 (Lot SHBN3661)		+/- 755.8230 µg/mL	Unstressed
	Purity 99%		+/- 757.6173 µg/mL	Stressed
2	2-Butanone (MEK)	12,543.6 µg/mL	+/- 73.4455 µg/mL	Gravimetric
	CAS # 78-93-3 (Lot SHBL5543)		+/- 756.8609 µg/mL	Unstressed
	Purity 99%		+/- 758.6575 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,534.8 µg/mL	+/- 73.3940 µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBM7956)		+/- 756.3299 µg/mL	Unstressed
	Purity 99%		+/- 758.1253 µg/mL	Stressed
4	2-Hexanone	12,617.6 µg/mL	+/- 73.8788 µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKCL1599)		+/- 761.3259 µg/mL	Unstressed
	Purity 99%		+/- 763.1332 µg/mL	Stressed

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

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

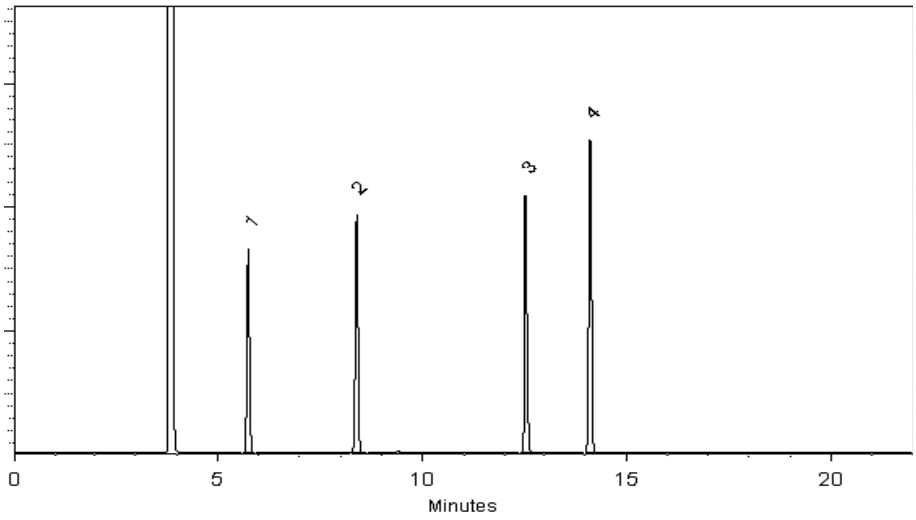
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Sam Moodler - Operations Tech I

Date Mixed: 11-Jul-2021 **Balance:** B707717271

Marlina Cowan - Operations Tech I

Date Passed: 13-Jul-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 569721 **Lot No.:** A0174287

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

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

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

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

Ship: Ambient

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

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone		12,526.4 µg/mL	+/- 73.3448 µg/mL		Gravimetric
	CAS # 67-64-1	(Lot SHBN3661)		+/- 755.8230 µg/mL		Unstressed
	Purity 99%			+/- 757.6173 µg/mL		Stressed
2	2-Butanone (MEK)		12,543.6 µg/mL	+/- 73.4455 µg/mL		Gravimetric
	CAS # 78-93-3	(Lot SHBL5543)		+/- 756.8609 µg/mL		Unstressed
	Purity 99%			+/- 758.6575 µg/mL		Stressed
3	4-Methyl-2-pentanone (MIBK)		12,534.8 µg/mL	+/- 73.3940 µg/mL		Gravimetric
	CAS # 108-10-1	(Lot SHBM7956)		+/- 756.3299 µg/mL		Unstressed
	Purity 99%			+/- 758.1253 µg/mL		Stressed
4	2-Hexanone		12,617.6 µg/mL	+/- 73.8788 µg/mL		Gravimetric
	CAS # 591-78-6	(Lot MKCL1599)		+/- 761.3259 µg/mL		Unstressed
	Purity 99%			+/- 763.1332 µg/mL		Stressed

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

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

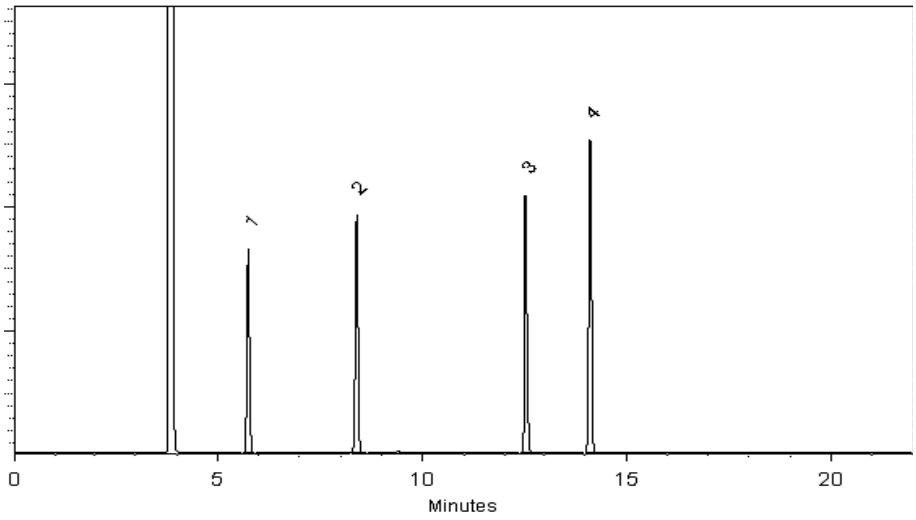
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Sam Moodler - Operations Tech I

Date Mixed: 11-Jul-2021 **Balance:** B707717271

Marlina Cowan - Operations Tech I

Date Passed: 13-Jul-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_PentaCL_00011

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577491 **Lot No.:** A0171341

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, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachloroethane	5,006.0 µg/mL	+/- 29.3780 µg/mL	Gravimetric
	CAS # 76-01-7 (Lot 10518800)		+/- 280.7099 µg/mL	Unstressed
	Purity 99%		+/- 287.2768 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)

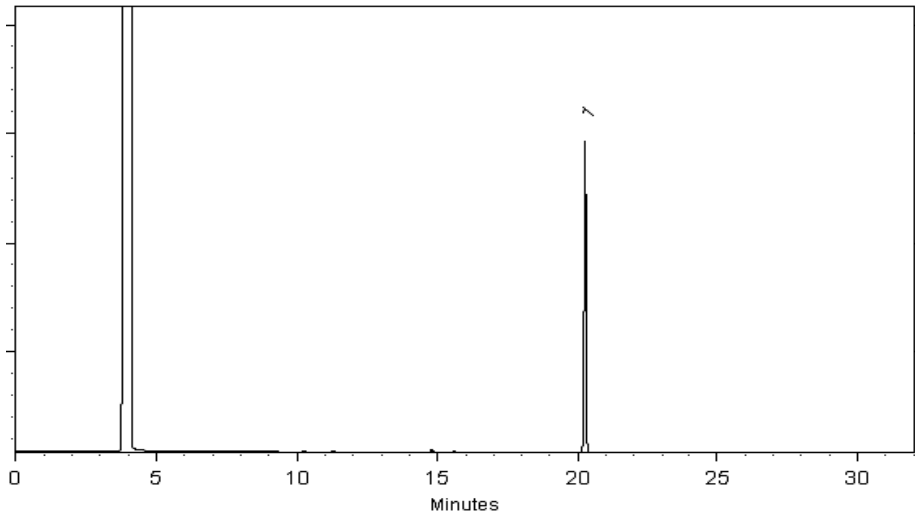
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Jeremy Warefield - Operations Tech I

Date Mixed: 14-Apr-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 19-Apr-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_PentaCL_00013

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577491 **Lot No.:** A0171341

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, 2024 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachloroethane	5,006.0 µg/mL	+/- 29.3780 µg/mL	Gravimetric
	CAS # 76-01-7 (Lot 10518800)		+/- 280.7099 µg/mL	Unstressed
	Purity 99%		+/- 287.2768 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)

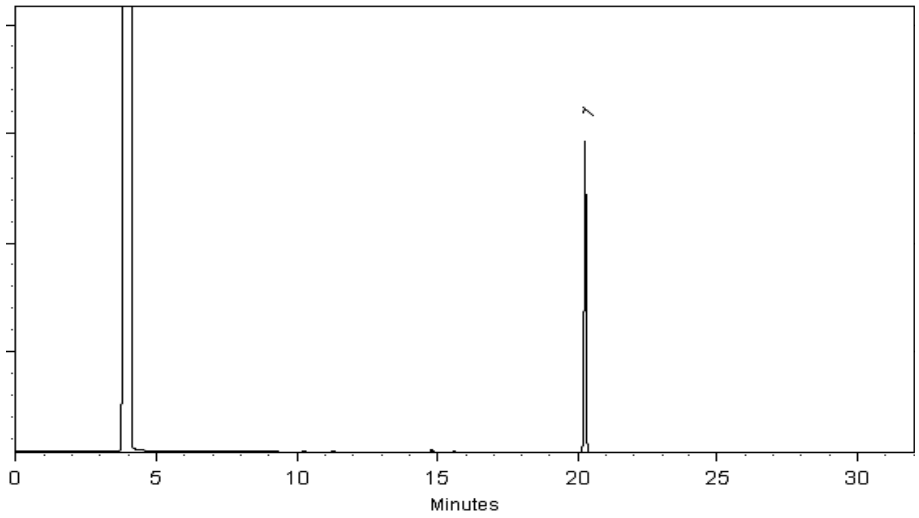
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Jeremy Warefield - Operations Tech I

Date Mixed: 14-Apr-2021 **Balance:** 1127510105

Alexis Shelow - Operations Tech I

Date Passed: 19-Apr-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
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0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

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

Manufacturing Notes:

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

Handling Notes:

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

Method 8260D Low Level

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-88520-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): R-624SilMS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
HD-COD-SW-6-0/1-0	410-88520-1	107	111	100	94
HD-COD-SW-7-0/1-0	410-88520-2	108	112	100	92
HD-COD-SW-8-0/1-0	410-88520-3	109	111	100	92
HD-COD-SW-9-0/1-0	410-88520-4	109	113	101	92
HD-COD-SW-13-0/1-0	410-88520-5	109	112	100	93
HD-COD-SW-15-0/1-0	410-88520-6	111	113	98	91
HD-COD-SW-16-0/1-0	410-88520-7	108	110	98	92
HD-COD-SW-17-0/1-0	410-88520-8	108	111	96	91
HD-COD-SW-17-0/1-0 DL	410-88520-8 DL	95	107	106	96
HD-COD-SW-26-0/1-0	410-88520-9	108	111	99	91
HD-COD-SW-27-0/1-0	410-88520-10	110	110	99	93
HD-COD-SW-28-0/1-0	410-88520-11	109	112	100	93
HD-COD-SW-29-0/1-0	410-88520-12	109	112	99	92
HD-QC1-0/1-1	410-88520-13	110	109	96	91
HD-QC1-0/1-1 DL	410-88520-13 DL	95	110	105	96
HD-QC1-0/1-2	410-88520-14	109	109	99	93
	MB 410-270125/6	108	111	100	93
	MB 410-271084/6	95	108	106	98
	LCS 410-270125/4	104	108	103	100
	LCS 410-271084/4	94	105	107	101
HD-COD-SW-15-0/1-0 MS MS	410-88520-6 MS	103	104	102	100
HD-COD-SW-15-0/1-0 MSD MSD	410-88520-6 MSD	103	105	103	98

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

Column to be used to flag recovery values

FORM II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Matrix: Water Level: Low Lab File ID: GU28X03.D

Lab ID: LCS 410-270125/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.40	108	71-134	
1,1,1-Trichloroethane	5.00	5.17	103	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.22	104	75-123	
1,1,2-Trichloroethane	5.00	5.48	110	80-120	
1,1-Dichloroethane	5.00	5.06	101	74-120	
1,1-Dichloroethene	5.00	4.95	99	80-131	
1,2-Dibromoethane (EDB)	5.00	5.41	108	80-120	
1,2-Dichloroethane	5.00	5.28	106	69-122	
1,2-Dichloropropane	5.00	5.39	108	80-120	
2-Butanone (MEK)	62.5	60.5	97	59-141	
2-Hexanone	62.5	62.0	99	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	61.9	99	55-140	
Acetone	62.5	60.2	96	60-146	
Benzene	5.00	5.24	105	80-120	
Bromochloromethane	5.00	5.58	112	80-120	
Bromodichloromethane	5.00	5.67	113	73-124	
Bromoform	5.00	5.94	119	49-144	
Bromomethane	5.00	5.42	108	60-136	
Carbon disulfide	5.00	6.39	128	67-130	
Carbon tetrachloride	5.00	5.26	105	64-141	
Chlorobenzene	5.00	5.20	104	80-120	
Chloroethane	5.00	5.46	109	63-120	
Chloroform	5.00	5.22	104	80-120	
Chloromethane	5.00	5.60	112	56-124	
cis-1,2-Dichloroethene	5.00	5.19	104	80-122	
cis-1,3-Dichloropropene	5.00	5.18	104	67-121	
Dibromochloromethane	5.00	5.77	115	64-138	
Ethylbenzene	5.00	5.01	100	80-120	
Methyl tert-butyl ether	5.00	5.02	100	69-120	
Methylene Chloride	5.00	5.34	107	80-120	
Styrene	5.00	5.04	101	80-120	
Tetrachloroethene	5.00	5.11	102	80-120	
Toluene	5.00	5.02	100	80-120	
trans-1,2-Dichloroethene	5.00	4.98	100	80-122	
trans-1,3-Dichloropropene	5.00	5.62	112	61-129	
Trichloroethene	5.00	5.13	103	80-120	
Vinyl chloride	5.00	5.45	109	60-125	
Xylenes, Total	15.0	15.2	101	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Matrix: Water Level: Low Lab File ID: IU30X03.D

Lab ID: LCS 410-271084/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	4.96	99	71-134	
1,1,1-Trichloroethane	5.00	4.52	90	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.92	118	75-123	
1,1,2-Trichloroethane	5.00	5.48	110	80-120	
1,1-Dichloroethane	5.00	4.92	98	74-120	
1,1-Dichloroethene	5.00	4.89	98	80-131	
1,2-Dibromoethane (EDB)	5.00	5.46	109	80-120	
1,2-Dichloroethane	5.00	5.05	101	69-122	
1,2-Dichloropropane	5.00	5.23	105	80-120	
2-Butanone (MEK)	62.5	71.5	114	59-141	
2-Hexanone	62.5	73.8	118	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	69.5	111	55-140	
Acetone	62.5	62.7	100	60-146	
Benzene	5.00	5.08	102	80-120	
Bromochloromethane	5.00	4.77	95	80-120	
Bromodichloromethane	5.00	5.10	102	73-124	
Bromoform	5.00	5.03	101	49-144	
Bromomethane	5.00	3.84	77	60-136	
Carbon disulfide	5.00	5.78	116	67-130	
Carbon tetrachloride	5.00	4.37	87	64-141	
Chlorobenzene	5.00	5.12	102	80-120	
Chloroethane	5.00	4.47	89	63-120	
Chloroform	5.00	4.74	95	80-120	
Chloromethane	5.00	4.85	97	56-124	
cis-1,2-Dichloroethene	5.00	4.80	96	80-122	
cis-1,3-Dichloropropene	5.00	4.94	99	67-121	
Dibromochloromethane	5.00	5.17	103	64-138	
Ethylbenzene	5.00	5.28	106	80-120	
Methyl tert-butyl ether	5.00	5.02	100	69-120	
Methylene Chloride	5.00	5.07	101	80-120	
Styrene	5.00	5.22	104	80-120	
Tetrachloroethene	5.00	4.61	92	80-120	
Toluene	5.00	5.40	108	80-120	
trans-1,2-Dichloroethene	5.00	4.67	93	80-122	
trans-1,3-Dichloropropene	5.00	5.77	115	61-129	
Trichloroethene	5.00	4.68	94	80-120	
Vinyl chloride	5.00	4.25	85	60-125	
Xylenes, Total	15.0	15.2	101	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Matrix: Water Level: Low Lab File ID: GU28X22.D

Lab ID: 410-88520-6 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	5.79	116	71-134	
1,1,1-Trichloroethane	5.00	0.31 J	5.99	113	78-126	
1,1,2,2-Tetrachloroethane	5.00	ND	5.41	108	75-123	
1,1,2-Trichloroethane	5.00	ND	5.77	115	80-120	
1,1-Dichloroethane	5.00	0.12 J	5.52	108	74-120	
1,1-Dichloroethene	5.00	0.18 J	5.76	111	80-131	
1,2-Dibromoethane (EDB)	5.00	ND	5.68	113	80-120	
1,2-Dichloroethane	5.00	ND	5.55	111	69-122	
1,2-Dichloropropane	5.00	ND	5.85	117	80-120	
2-Butanone (MEK)	62.6	ND	74.6	119	59-141	
2-Hexanone	62.6	ND	82.1	131	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	ND	78.5	126	55-140	
Acetone	62.6	ND	67.7	108	60-146	
Benzene	5.00	ND	5.68	113	80-120	
Bromochloromethane	5.00	ND	5.91	118	80-120	
Bromodichloromethane	5.00	ND	6.09	122	73-124	
Bromoform	5.00	ND	6.04	121	49-144	
Bromomethane	5.00	ND	5.76	115	60-136	
Carbon disulfide	5.00	ND	7.13	142	67-130	FH
Carbon tetrachloride	5.00	ND	5.97	119	64-141	
Chlorobenzene	5.00	ND	5.67	113	80-120	
Chloroethane	5.00	ND	5.82	116	63-120	
Chloroform	5.00	0.34 J	6.00	113	80-120	
Chloromethane	5.00	ND	6.33	126	80-120	FH
cis-1,2-Dichloroethene	5.00	1.3	7.20	117	80-122	
cis-1,3-Dichloropropene	5.00	ND	5.46	109	67-121	
Dibromochloromethane	5.00	ND	6.05	121	64-138	
Ethylbenzene	5.00	ND	5.53	110	80-120	
Methyl tert-butyl ether	5.00	ND	5.08	102	69-120	
Methylene Chloride	5.00	ND	5.59	112	80-120	
Styrene	5.00	ND	5.40	108	80-120	
Tetrachloroethene	5.00	5.7	11.3	113	80-120	
Toluene	5.00	ND	5.57	111	80-120	
trans-1,2-Dichloroethene	5.00	ND	5.48	109	80-122	
trans-1,3-Dichloropropene	5.00	ND	5.93	118	61-129	
Trichloroethene	5.00	1.6	7.26	114	80-120	
Vinyl chloride	5.00	ND	6.01	120	60-125	
Xylenes, Total	15.0	ND	16.7	111	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Matrix: Water Level: Low Lab File ID: GU28X23.D

Lab ID: 410-88520-6 MSD Client ID: HD-COD-SW-15-0/1-0 MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.82	116	1	30	71-134	
1,1,1-Trichloroethane	5.00	6.03	114	1	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.37	107	1	30	75-123	
1,1,2-Trichloroethane	5.00	5.81	116	1	30	80-120	
1,1-Dichloroethane	5.00	5.55	108	0	30	74-120	
1,1-Dichloroethene	5.00	5.87	114	2	30	80-131	
1,2-Dibromoethane (EDB)	5.00	5.62	112	1	30	80-120	
1,2-Dichloroethane	5.00	5.49	110	1	30	69-122	
1,2-Dichloropropane	5.00	5.82	116	0	30	80-120	
2-Butanone (MEK)	62.6	75.5	121	1	30	59-141	
2-Hexanone	62.6	82.5	132	0	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	79.0	126	1	30	55-140	
Acetone	62.6	67.0	107	1	30	60-146	
Benzene	5.00	5.69	114	0	30	80-120	
Bromochloromethane	5.00	6.00	120	2	30	80-120	
Bromodichloromethane	5.00	6.04	121	1	30	73-124	
Bromoform	5.00	6.04	121	0	30	49-144	
Bromomethane	5.00	5.81	116	1	30	60-136	
Carbon disulfide	5.00	7.18	143	1	30	67-130	FH
Carbon tetrachloride	5.00	6.08	122	2	30	64-141	
Chlorobenzene	5.00	5.67	113	0	30	80-120	
Chloroethane	5.00	5.88	118	1	30	63-120	
Chloroform	5.00	6.01	113	0	30	80-120	
Chloromethane	5.00	6.25	125	1	30	80-120	FH
cis-1,2-Dichloroethene	5.00	7.20	117	0	30	80-122	
cis-1,3-Dichloropropene	5.00	5.55	111	2	30	67-121	
Dibromochloromethane	5.00	6.01	120	1	30	64-138	
Ethylbenzene	5.00	5.47	109	1	30	80-120	
Methyl tert-butyl ether	5.00	5.18	104	2	30	69-120	
Methylene Chloride	5.00	5.69	114	2	30	80-120	
Styrene	5.00	5.44	109	1	30	80-120	
Tetrachloroethene	5.00	11.2	111	1	30	80-120	
Toluene	5.00	5.54	111	1	30	80-120	
trans-1,2-Dichloroethene	5.00	5.55	111	1	30	80-122	
trans-1,3-Dichloropropene	5.00	5.96	119	1	30	61-129	
Trichloroethene	5.00	7.25	114	0	30	80-120	
Vinyl chloride	5.00	6.09	122	1	30	60-125	
Xylenes, Total	15.0	16.6	111	1	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Lab File ID: GU28X05.D Lab Sample ID: MB 410-270125/6

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

Instrument ID: 16334 Date Analyzed: 06/28/2022 11:29

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 410-270125/4	GU28X03.D	06/28/2022 10:44
HD-QC1-0/1-2	410-88520-14	GU28X06.D	06/28/2022 11:58
HD-COD-SW-6-0/1-0	410-88520-1	GU28X16.D	06/28/2022 15:38
HD-COD-SW-7-0/1-0	410-88520-2	GU28X17.D	06/28/2022 16:01
HD-COD-SW-8-0/1-0	410-88520-3	GU28X18.D	06/28/2022 16:23
HD-COD-SW-9-0/1-0	410-88520-4	GU28X19.D	06/28/2022 16:45
HD-COD-SW-13-0/1-0	410-88520-5	GU28X20.D	06/28/2022 17:07
HD-COD-SW-15-0/1-0	410-88520-6	GU28X21.D	06/28/2022 17:29
HD-COD-SW-15-0/1-0 MS MS	410-88520-6 MS	GU28X22.D	06/28/2022 17:51
HD-COD-SW-15-0/1-0 MSD MSD	410-88520-6 MSD	GU28X23.D	06/28/2022 18:13
HD-COD-SW-16-0/1-0	410-88520-7	GU28X24.D	06/28/2022 18:35
HD-COD-SW-17-0/1-0	410-88520-8	GU28X25.D	06/28/2022 18:57
HD-COD-SW-26-0/1-0	410-88520-9	GU28X26.D	06/28/2022 19:19
HD-COD-SW-27-0/1-0	410-88520-10	GU28X27.D	06/28/2022 19:41
HD-COD-SW-28-0/1-0	410-88520-11	GU28X28.D	06/28/2022 20:03
HD-COD-SW-29-0/1-0	410-88520-12	GU28X29.D	06/28/2022 20:25
HD-QC1-0/1-1	410-88520-13	GU28X30.D	06/28/2022 20:47

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Lab File ID: IU30X05.D Lab Sample ID: MB 410-271084/6

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

Instrument ID: 19930 Date Analyzed: 06/30/2022 11:04

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 410-271084/4	IU30X03.D	06/30/2022 10:21
HD-COD-SW-17-0/1-0 DL	410-88520-8 DL	IU30X30.D	06/30/2022 19:54
HD-QC1-0/1-1 DL	410-88520-13 DL	IU30X31.D	06/30/2022 20:15

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-88520-1

SDG No.:

Lab File ID: GJ10T01.D BFB Injection Date: 01/10/2022

Instrument ID: 16334 BFB Injection Time: 14:32

Analysis Batch No.: 213100

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.9	
75	30.0 - 60.0 % of mass 95	45.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.3	(0.4) 1
174	Greater than 50% of mass 95	86.6	
175	5.0 - 9.0 % of mass 174	7.0	(8.1) 1
176	95.0 - 101.0 % of mass 174	86.1	(99.4) 1
177	5.0 - 9.0 % of mass 176	5.7	(6.7) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 410-213100/11	GJ10X11.D	01/10/2022	21:33
	ICIS 410-213100/12	GJ10X12.D	01/10/2022	21:55
	IC 410-213100/13	GJ10X13.D	01/10/2022	22:17
	IC 410-213100/14	GJ10X14.D	01/10/2022	22:39
	IC 410-213100/15	GJ10X15.D	01/10/2022	23:01
	IC 410-213100/16	GJ10X16.D	01/10/2022	23:23
	IC 410-213100/17	GJ10X17.D	01/10/2022	23:46
	ICV 410-213100/18	GJ10X18.D	01/11/2022	0:08

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-88520-1

SDG No.:

Lab File ID: GU28T01.D BFB Injection Date: 06/28/2022

Instrument ID: 16334 BFB Injection Time: 09:47

Analysis Batch No.: 270125

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.9	
75	30.0 - 60.0 % of mass 95	45.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.2	(0.3) 1
174	Greater than 50% of mass 95	83.1	
175	5.0 - 9.0 % of mass 174	6.3	(7.5) 1
176	95.0 - 101.0 % of mass 174	79.5	(95.7) 1
177	5.0 - 9.0 % of mass 176	5.2	(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
	CCVIS 410-270125/3	GU28X02.D	06/28/2022	10:22
	LCS 410-270125/4	GU28X03.D	06/28/2022	10:44
	MB 410-270125/6	GU28X05.D	06/28/2022	11:29
HD-QC1-0/1-2	410-88520-14	GU28X06.D	06/28/2022	11:58
HD-COD-SW-6-0/1-0	410-88520-1	GU28X16.D	06/28/2022	15:38
HD-COD-SW-7-0/1-0	410-88520-2	GU28X17.D	06/28/2022	16:01
HD-COD-SW-8-0/1-0	410-88520-3	GU28X18.D	06/28/2022	16:23
HD-COD-SW-9-0/1-0	410-88520-4	GU28X19.D	06/28/2022	16:45
HD-COD-SW-13-0/1-0	410-88520-5	GU28X20.D	06/28/2022	17:07
HD-COD-SW-15-0/1-0	410-88520-6	GU28X21.D	06/28/2022	17:29
HD-COD-SW-15-0/1-0 MS MS	410-88520-6 MS	GU28X22.D	06/28/2022	17:51
HD-COD-SW-15-0/1-0 MSD MSD	410-88520-6 MSD	GU28X23.D	06/28/2022	18:13
HD-COD-SW-16-0/1-0	410-88520-7	GU28X24.D	06/28/2022	18:35
HD-COD-SW-17-0/1-0	410-88520-8	GU28X25.D	06/28/2022	18:57
HD-COD-SW-26-0/1-0	410-88520-9	GU28X26.D	06/28/2022	19:19
HD-COD-SW-27-0/1-0	410-88520-10	GU28X27.D	06/28/2022	19:41
HD-COD-SW-28-0/1-0	410-88520-11	GU28X28.D	06/28/2022	20:03
HD-COD-SW-29-0/1-0	410-88520-12	GU28X29.D	06/28/2022	20:25
HD-QC1-0/1-1	410-88520-13	GU28X30.D	06/28/2022	20:47

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-88520-1

SDG No.:

Lab File ID: IM14T01.D BFB Injection Date: 03/14/2022

Instrument ID: 19930 BFB Injection Time: 21:24

Analysis Batch No.: 233459

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.1	
75	30.0 - 60.0 % of mass 95	47.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	5.9	
173	Less than 2.0 % of mass 174	1.6	(1.6) 1
174	Greater than 50% of mass 95	100.6	
175	5.0 - 9.0 % of mass 174	7.4	(7.4) 1
176	95.0 - 101.0 % of mass 174	98.2	(97.6) 1
177	5.0 - 9.0 % of mass 176	6.9	(7.0) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 410-233459/12	IM14I31.D	03/15/2022	1:15
	ICIS 410-233459/13	IM14I32.D	03/15/2022	1:36
	IC 410-233459/14	IM14I33.D	03/15/2022	1:58
	IC 410-233459/15	IM14I34.D	03/15/2022	2:19
	IC 410-233459/16	IM14I35.D	03/15/2022	2:40
	IC 410-233459/17	IM14I36.D	03/15/2022	3:01
	IC 410-233459/18	IM14I37.D	03/15/2022	3:22
	ICV 410-233459/19	IM14V01.D	03/15/2022	3:43

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-88520-1

SDG No.:

Lab File ID: IU30T01.D BFB Injection Date: 06/30/2022

Instrument ID: 19930 BFB Injection Time: 09:25

Analysis Batch No.: 271084

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.2	
75	30.0 - 60.0 % of mass 95	47.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.9	(1.0) 1
174	Greater than 50% of mass 95	93.7	
175	5.0 - 9.0 % of mass 174	7.1	(7.5) 1
176	95.0 - 101.0 % of mass 174	92.0	(98.1) 1
177	5.0 - 9.0 % of mass 176	6.1	(6.7) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-271084/3	IU30X02.D	06/30/2022	10:00
	LCS 410-271084/4	IU30X03.D	06/30/2022	10:21
	MB 410-271084/6	IU30X05.D	06/30/2022	11:04
HD-COD-SW-17-0/1-0 DL	410-88520-8 DL	IU30X30.D	06/30/2022	19:54
HD-QC1-0/1-1 DL	410-88520-13 DL	IU30X31.D	06/30/2022	20:15

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-88520-1

SDG No.:

Sample No.: ICIS 410-213100/12 Date Analyzed: 01/10/2022 21:55

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

Lab File ID (Standard): GJ10X12.D Heated Purge: (Y/N) N

Calibration ID: 34663

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		169884	4.20	2348513	7.61	1782740	11.11
UPPER LIMIT		339768	4.70	4697026	8.11	3565480	11.61
LOWER LIMIT		84942	3.70	1174257	7.11	891370	10.61
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-213100/18		159047	4.19	2341917	7.60	1779998	11.11
CCVIS 410-270125/3		173538	4.19	2183351	7.62	1705434	11.10

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 8260D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-88520-1

SDG No.:

Sample No.: ICIS 410-213100/12 Date Analyzed: 01/10/2022 21:55

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

Lab File ID (Standard): GJ10X12.D Heated Purge: (Y/N) N

Calibration ID: 34663

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		1012822	12.99				
UPPER LIMIT		2025644	13.49				
LOWER LIMIT		506411	12.49				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-213100/18		1015781	12.99				
CCVIS 410-270125/3		1016359	12.98				

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 8260D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-88520-1

SDG No.:

Sample No.: CCVIS 410-270125/3 Date Analyzed: 06/28/2022 10:22

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

Lab File ID (Standard): GU28X02.D Heated Purge: (Y/N) N

Calibration ID: 34663

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		173538	4.19	2183351	7.62	1705434	11.10
UPPER LIMIT		347076	4.69	4366702	8.12	3410868	11.60
LOWER LIMIT		86769	3.69	1091676	7.12	852717	10.60
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-270125/4		182688	4.19	2171602	7.62	1683266	11.10
MB 410-270125/6		189694	4.18	2009175	7.61	1568169	11.10
410-88520-14	HD-QC1-0/1-2	181574	4.20	1915782	7.61	1521050	11.10
410-88520-1	HD-COD-SW-6-0/1-0	199653	4.20	2023026	7.62	1591844	11.10
410-88520-2	HD-COD-SW-7-0/1-0	150618	4.20	1997247	7.61	1583587	11.10
410-88520-3	HD-COD-SW-8-0/1-0	175086	4.20	1992721	7.62	1578822	11.10
410-88520-4	HD-COD-SW-9-0/1-0	167748	4.18	1960670	7.62	1562598	11.10
410-88520-5	HD-COD-SW-13-0/1-0	152312	4.20	1966328	7.62	1547892	11.10
410-88520-6	HD-COD-SW-15-0/1-0	168881	4.17	1956707	7.61	1581324	11.10
410-88520-6 MS	HD-COD-SW-15-0/1-0 MS MS	141173	4.18	2176738	7.61	1680696	11.10
410-88520-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	137041	4.19	2155624	7.62	1671752	11.10
410-88520-7	HD-COD-SW-16-0/1-0	163122	4.18	2042866	7.61	1630067	11.10
410-88520-8	HD-COD-SW-17-0/1-0	148665	4.20	2026109	7.61	1649346	11.10
410-88520-9	HD-COD-SW-26-0/1-0	140923	4.20	1994406	7.62	1590715	11.10
410-88520-10	HD-COD-SW-27-0/1-0	181171	4.20	1988629	7.61	1587468	11.10
410-88520-11	HD-COD-SW-28-0/1-0	163328	4.18	1979477	7.62	1579170	11.10
410-88520-12	HD-COD-SW-29-0/1-0	165785	4.18	1967103	7.61	1563966	11.10
410-88520-13	HD-QC1-0/1-1	136197	4.19	1967726	7.62	1612078	11.10

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 8260D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-88520-1

SDG No.:

Sample No.: CCVIS 410-270125/3 Date Analyzed: 06/28/2022 10:22

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

Lab File ID (Standard): GU28X02.D Heated Purge: (Y/N) N

Calibration ID: 34663

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		1016359	12.98				
UPPER LIMIT		2032718	13.48				
LOWER LIMIT		508180	12.48				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-270125/4		1002033	12.98				
MB 410-270125/6		872766	12.98				
410-88520-14	HD-QC1-0/1-2	869996	12.98				
410-88520-1	HD-COD-SW-6-0/1-0	897577	12.98				
410-88520-2	HD-COD-SW-7-0/1-0	877334	12.98				
410-88520-3	HD-COD-SW-8-0/1-0	876489	12.98				
410-88520-4	HD-COD-SW-9-0/1-0	882805	12.98				
410-88520-5	HD-COD-SW-13-0/1-0	864087	12.98				
410-88520-6	HD-COD-SW-15-0/1-0	864736	12.98				
410-88520-6 MS	HD-COD-SW-15-0/1-0 MS MS	975486	12.98				
410-88520-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	974721	12.98				
410-88520-7	HD-COD-SW-16-0/1-0	899453	12.98				
410-88520-8	HD-COD-SW-17-0/1-0	884756	12.98				
410-88520-9	HD-COD-SW-26-0/1-0	871178	12.98				
410-88520-10	HD-COD-SW-27-0/1-0	882506	12.98				
410-88520-11	HD-COD-SW-28-0/1-0	871423	12.98				
410-88520-12	HD-COD-SW-29-0/1-0	874530	12.98				
410-88520-13	HD-QC1-0/1-1	873396	12.98				

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 8260D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-88520-1

SDG No.:

Sample No.: ICIS 410-233459/13 Date Analyzed: 03/15/2022 01:36

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

Lab File ID (Standard): IM14I32.D Heated Purge: (Y/N) N

Calibration ID: 36162

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		147286	4.23	2018353	7.70	1700909	11.16
UPPER LIMIT		294572	4.73	4036706	8.20	3401818	11.66
LOWER LIMIT		73643	3.73	1009177	7.20	850455	10.66
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-233459/19		172755	4.22	2024993	7.70	1696187	11.16
CCVIS 410-271084/3		206056	4.24	2799379	7.71	2209570	11.16

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 8260D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-88520-1

SDG No.:

Sample No.: ICIS 410-233459/13 Date Analyzed: 03/15/2022 01:36

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

Lab File ID (Standard): IM14I32.D Heated Purge: (Y/N) N

Calibration ID: 36162

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		1049716	13.04				
UPPER LIMIT		2099432	13.54				
LOWER LIMIT		524858	12.54				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-233459/19		1033998	13.04				
CCVIS 410-271084/3		1274361	13.04				

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 8260D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-88520-1

SDG No.:

Sample No.: CCVIS 410-271084/3 Date Analyzed: 06/30/2022 10:00

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

Lab File ID (Standard): IU30X02.D Heated Purge: (Y/N) N

Calibration ID: 36162

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		206056	4.24	2799379	7.71	2209570	11.16
UPPER LIMIT		412112	4.74	5598758	8.21	4419140	11.66
LOWER LIMIT		103028	3.74	1399690	7.21	1104785	10.66
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-271084/4		187249	4.23	2726184	7.70	2116878	11.16
MB 410-271084/6		188173	4.23	2579072	7.71	1985393	11.16
410-88520-8 DL	HD-COD-SW-17-0/1-0 DL	207630	4.23	2636704	7.70	2044297	11.16
410-88520-13 DL	HD-QC1-0/1-1 DL	199552	4.24	2595814	7.71	2020226	11.16

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 8260D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-88520-1

SDG No.:

Sample No.: CCVIS 410-271084/3 Date Analyzed: 06/30/2022 10:00

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

Lab File ID (Standard): IU30X02.D Heated Purge: (Y/N) N

Calibration ID: 36162

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		1274361	13.04				
UPPER LIMIT		2548722	13.54				
LOWER LIMIT		637181	12.54				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-271084/4		1211077	13.04				
MB 410-271084/6		1108317	13.04				
410-88520-8 DL	HD-COD-SW-17-0/1-0 DL	1108930	13.04				
410-88520-13 DL	HD-QC1-0/1-1 DL	1096682	13.04				

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 8260D

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-6-0/1-0 Lab Sample ID: 410-88520-1

Matrix: Water Lab File ID: GU28X16.D

Analysis Method: 8260D Date Collected: 06/21/2022 10:50

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 15:38

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 270125 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.5	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		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	0.24	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	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-6-0/1-0 Lab Sample ID: 410-88520-1

Matrix: Water Lab File ID: GU28X16.D

Analysis Method: 8260D Date Collected: 06/21/2022 10:50

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 15:38

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 270125 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)	111		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X16.D
Lims ID: 410-88520-A-1
Client ID: HD-COD-SW-6-0/1-0
Sample Type: Client
Inject. Date: 28-Jun-2022 15:38:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060580-017
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Jun-2022 14:05:30 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:05:30

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	5 Chloromethane	50	2.111	2.123	-0.012	98	13713	0.2445	
	8 Vinyl chloride	62		2.233				ND	
	9 Bromomethane	94		2.562				ND	
	10 Chloroethane	64		2.641				ND	
	19 1,1-Dichloroethene	96		3.471				ND	7
	21 Acetone	43	3.538	3.532	0.006	71	14013	1.53	
	25 Carbon disulfide	76		3.763				ND	7
	29 Methylene Chloride	84		4.123				ND	
*	30 t-Butyl alcohol-d10 (IS)	65	4.202	4.190	0.012	70	199653	50.0	
	33 Methyl tert-butyl ether	73		4.525				ND	
	34 trans-1,2-Dichloroethene	96		4.525				ND	
	37 1,1-Dichloroethane	63		5.190				ND	
	41 2-Butanone (MEK)	43	6.031	6.001	0.030	58	5504	0.3055	a
	42 cis-1,2-Dichloroethene	96	6.037	6.031	0.006	75	3645	0.0717	a
	49 Chlorobromomethane	128		6.360				ND	
	51 Chloroform	83	6.506	6.513	-0.007	86	3423	0.0428	a
$	52 Dibromofluoromethane (Surr)	113	6.726	6.726	0.000	94	521872	10.7	
	53 1,1,1-Trichloroethane	97		6.738				ND	
	56 Carbon tetrachloride	117		6.939				ND	
$	59 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.177	0.000	37	113989	11.1	
	60 Benzene	78		7.208				ND	7
	61 1,2-Dichloroethane	62		7.281				ND	
*	64 Fluorobenzene (IS)	96	7.616	7.616	0.000	99	2023026	10.0	
	68 Trichloroethene	95	8.085	8.092	-0.007	96	3683	0.0731	
	70 1,2-Dichloropropane	63		8.427				ND	
	76 Dichlorobromomethane	83		8.774				ND	
	81 cis-1,3-Dichloropropene	75		9.323				ND	
	82 4-Methyl-2-pentanone (MIBK)	43		9.500				ND	7
$	83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	2033129	9.97	
	84 Toluene	92	9.713	9.707	0.006	94	6691	0.0528	
	96 trans-1,3-Dichloropropene	75		9.969				ND	
	99 1,1,2-Trichloroethane	97		10.177				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
100 Tetrachloroethene	166	10.262	10.262	0.000	85	2233	0.0378	
102 2-Hexanone	43		10.396				ND	7
104 Chlorodibromomethane	129		10.555				ND	
105 Ethylene Dibromide	107		10.664				ND	
* 106 Chlorobenzene-d5 (IS)	117	11.097	11.097	0.000	84	1591844	10.0	
108 Chlorobenzene	112		11.122				ND	
110 1,1,1,2-Tetrachloroethane	131		11.207				ND	
111 Ethylbenzene	91		11.213				ND	7
S 109 Xylenes, Total	106		11.245				ND	7
112 m-Xylene & p-Xylene	106		11.323				ND	7
113 o-Xylene	106		11.652				ND	7
114 Styrene	104		11.670				ND	
115 Bromoform	173		11.829				ND	
$ 119 4-Bromofluorobenzene (Surr)	95	12.097	12.097	0.000	92	722915	9.40	
120 1,1,2,2-Tetrachloroethane	83		12.201				ND	
* 134 1,4-Dichlorobenzene-d4	152	12.975	12.975	0.000	94	897577	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

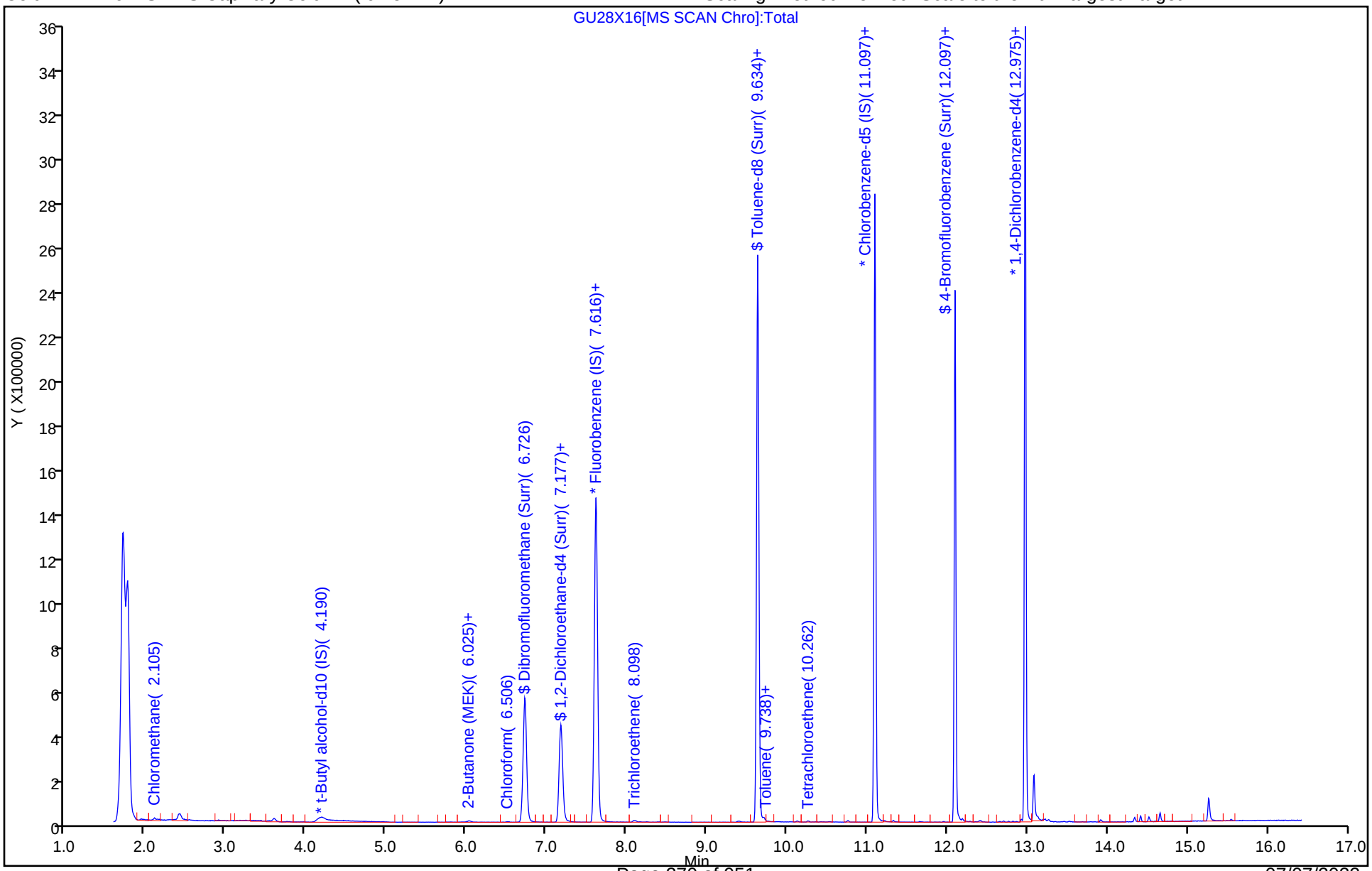
MSV_29_826ISS_00034 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 29-Jun-2022 14:05:30 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X16.D				
Injection Date:	28-Jun-2022 15:38:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-88520-A-1	Lab Sample ID:	410-88520-1	Worklist Smp#:	17
Client ID:	HD-COD-SW-6-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X16.D				
Lims ID:	410-88520-A-1				
Client ID:	HD-COD-SW-6-0/1-0				
Sample Type:	Client				
Inject. Date:	28-Jun-2022 15:38:30	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0060580-017				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	29-Jun-2022 14:05:30	Calib Date:	10-Jan-2022 23:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1674				

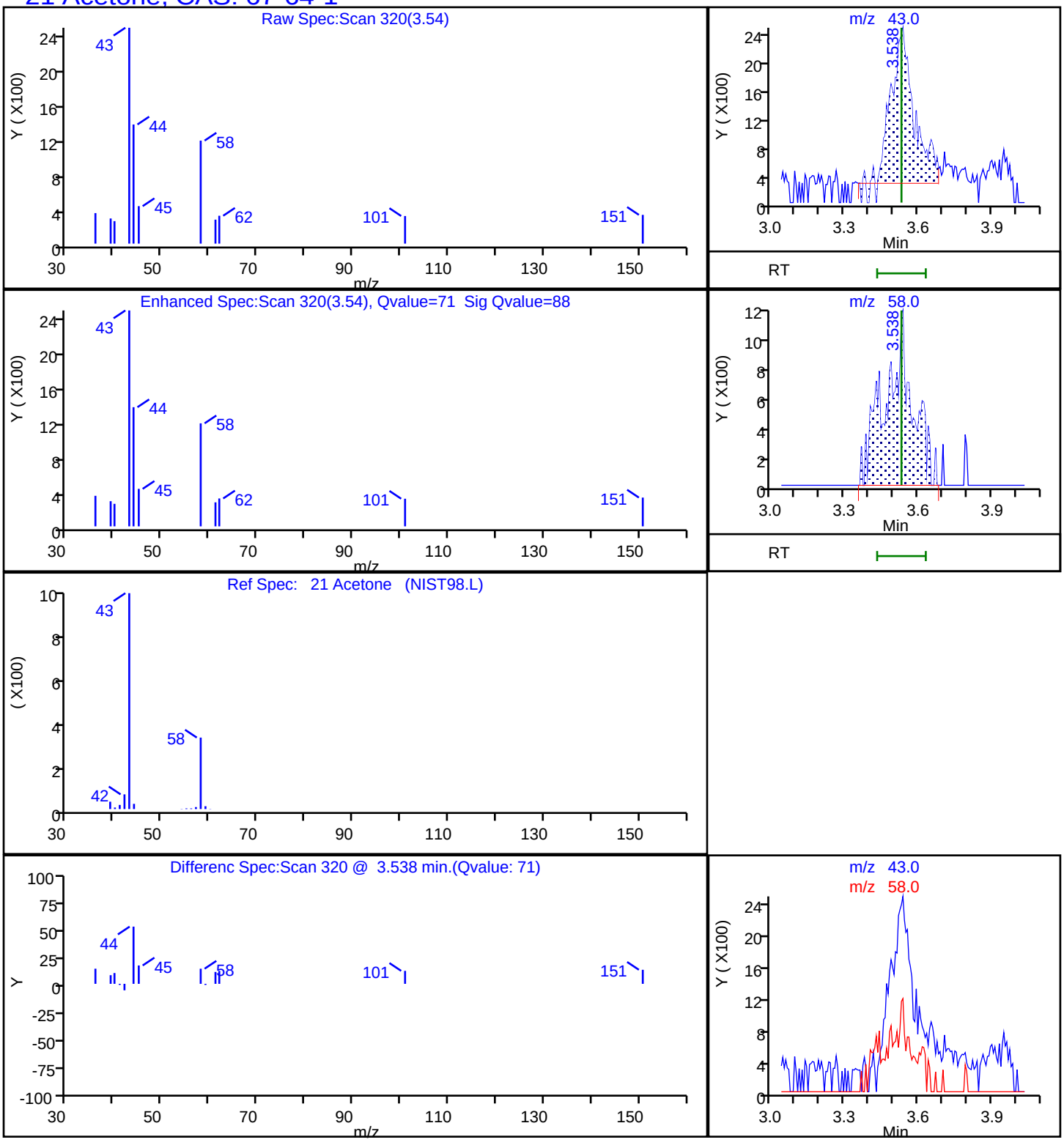
First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:05:30

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.7	107.48
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	11.1	111.07
$ 83 Toluene-d8 (Surr)	10.0	9.97	99.75
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.40	93.99

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X16.D				
Injection Date:	28-Jun-2022 15:38:30	Instrument ID:	16334		
Lims ID:	410-88520-A-1	Lab Sample ID:	410-88520-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

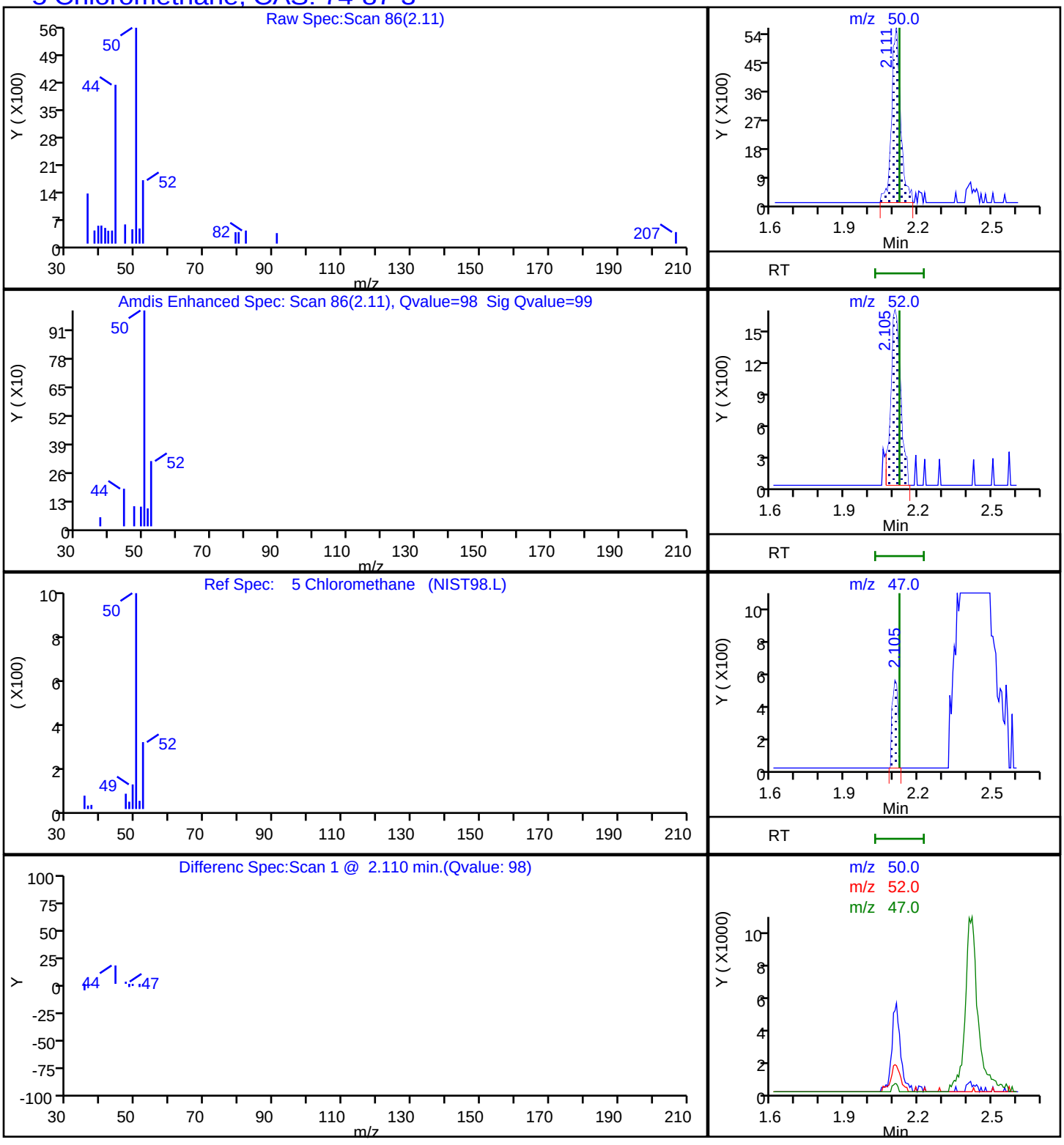
21 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X16.D				
Injection Date:	28-Jun-2022 15:38:30	Instrument ID:	16334		
Lims ID:	410-88520-A-1	Lab Sample ID:	410-88520-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

5 Chloromethane, CAS: 74-87-3



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

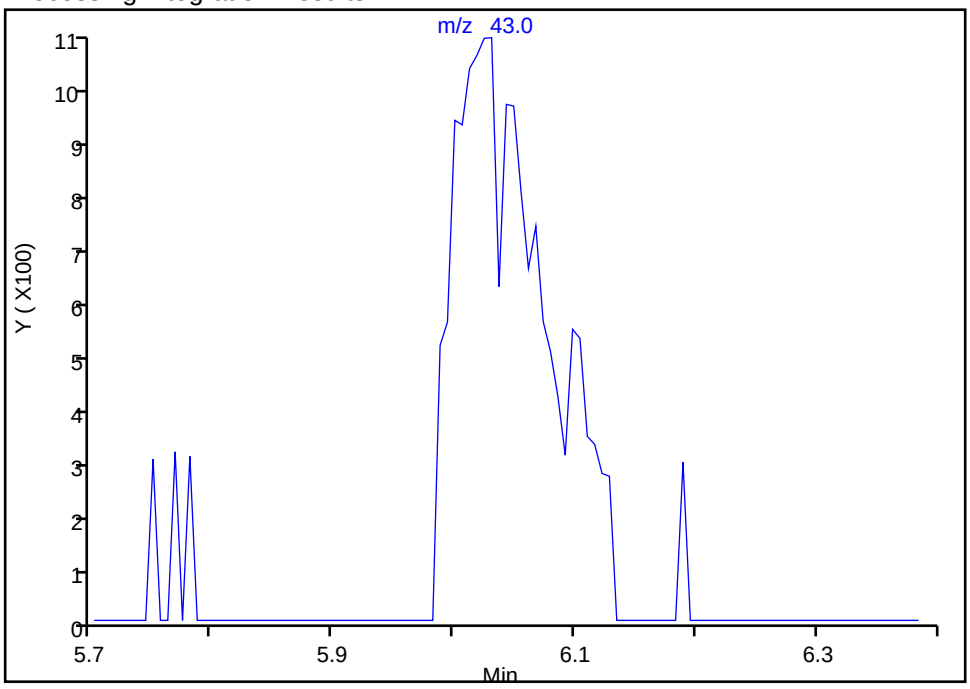
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X16.D				
Injection Date:	28-Jun-2022 15:38:30	Instrument ID:	16334		
Lims ID:	410-88520-A-1	Lab Sample ID:	410-88520-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

41 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

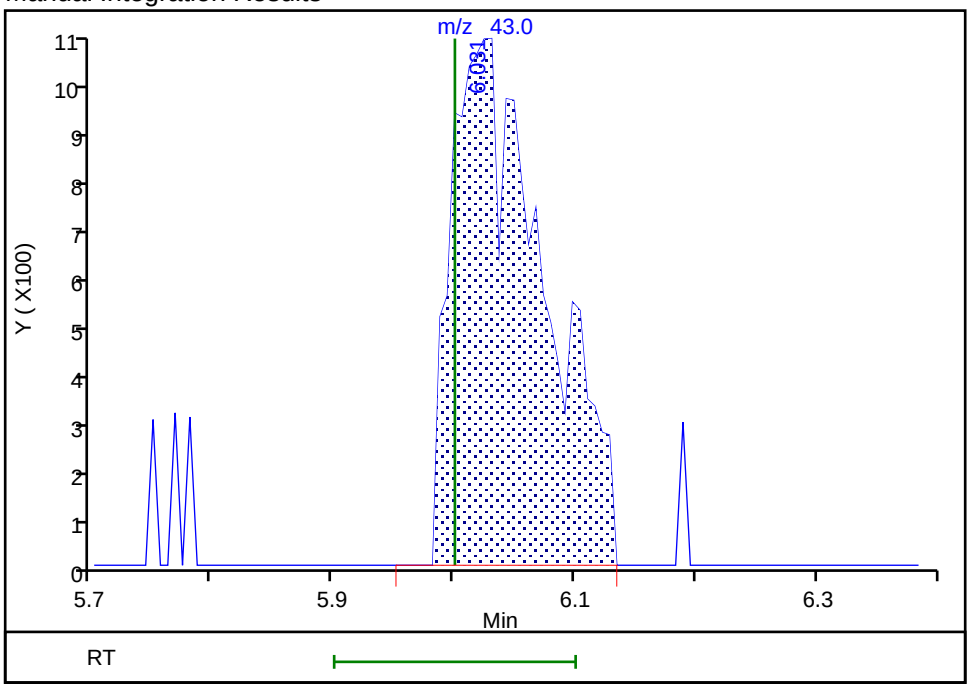
Not Detected
Expected RT: 6.00

Processing Integration Results



Manual Integration Results

RT: 6.03
Area: 5504
Amount: 0.305463
Amount Units: ug/l



Reviewer: kaewrungrueangp, 29-Jun-2022 14:04:58
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

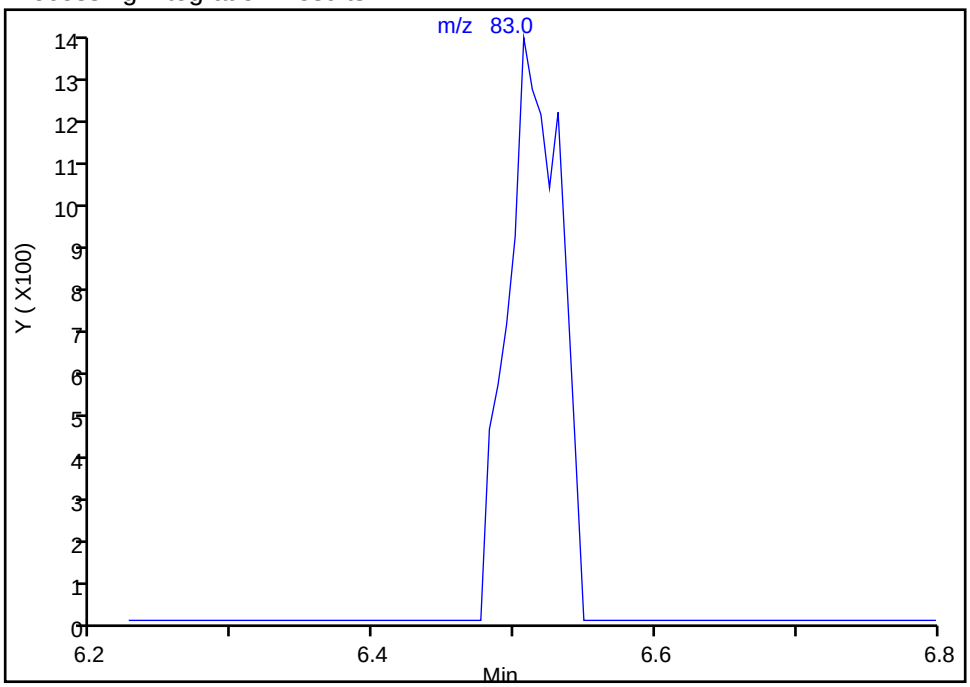
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X16.D				
Injection Date:	28-Jun-2022 15:38:30	Instrument ID:	16334		
Lims ID:	410-88520-A-1	Lab Sample ID:	410-88520-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

51 Chloroform, CAS: 67-66-3

Signal: 1

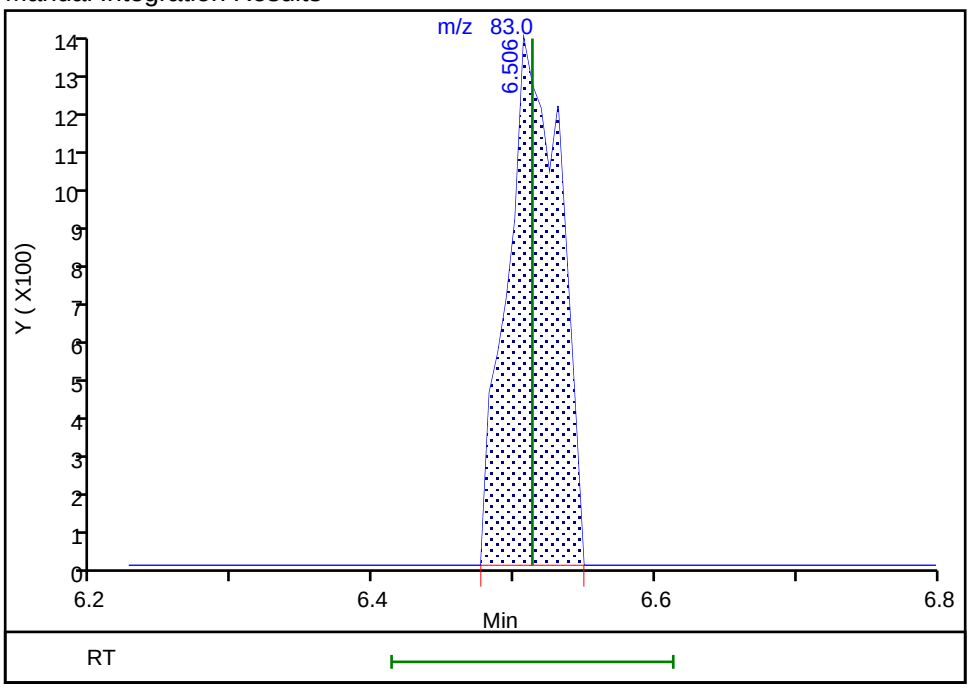
Not Detected
Expected RT: 6.51

Processing Integration Results



Manual Integration Results

RT: 6.51
Area: 3423
Amount: 0.042765
Amount Units: ug/l



Reviewer: kaewrungrueangp, 29-Jun-2022 14:05:15
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

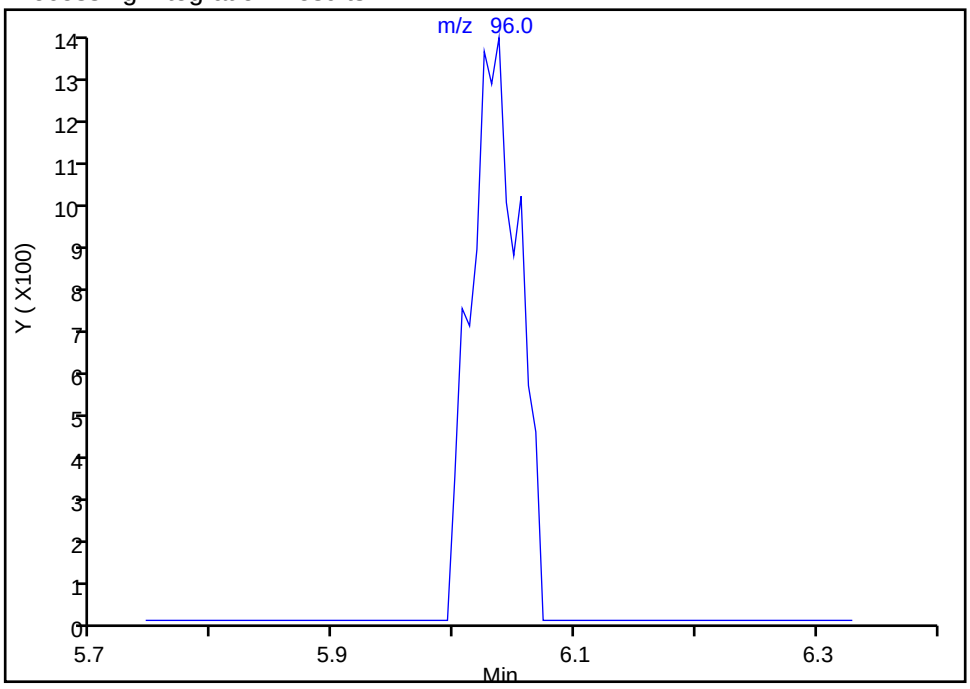
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X16.D				
Injection Date:	28-Jun-2022 15:38:30	Instrument ID:	16334		
Lims ID:	410-88520-A-1	Lab Sample ID:	410-88520-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

Signal: 1

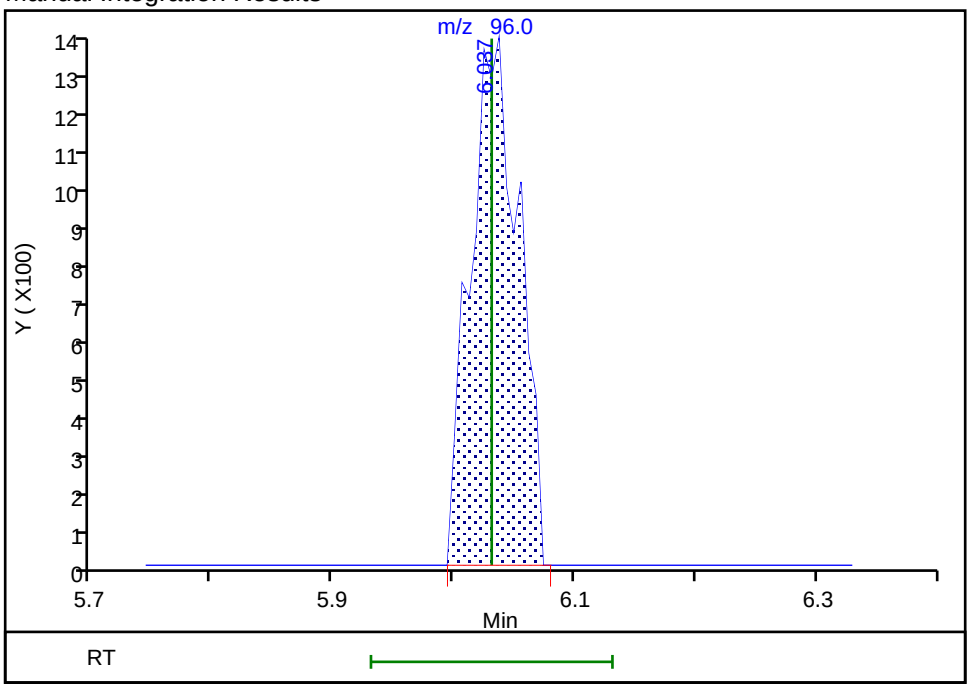
Not Detected
Expected RT: 6.03

Processing Integration Results



Manual Integration Results

RT: 6.04
Area: 3645
Amount: 0.071703
Amount Units: ug/l



Reviewer: kaewrungrueangp, 29-Jun-2022 14:05:09
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.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-7-0/1-0 Lab Sample ID: 410-88520-2

Matrix: Water Lab File ID: GU28X17.D

Analysis Method: 8260D Date Collected: 06/21/2022 11:30

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 16:01

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.: 270125 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.9	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.092	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.085	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-7-0/1-0 Lab Sample ID: 410-88520-2

Matrix: Water Lab File ID: GU28X17.D

Analysis Method: 8260D Date Collected: 06/21/2022 11:30

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 16:01

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.: 270125 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	0.085	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)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X17.D
Lims ID: 410-88520-A-2
Client ID: HD-COD-SW-7-0/1-0
Sample Type: Client
Inject. Date: 28-Jun-2022 16:01:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060580-018
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Jun-2022 14:06:19 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:06:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.123				ND	U
8 Vinyl chloride	62		2.233				ND	
9 Bromomethane	94		2.562				ND	
10 Chloroethane	64		2.641				ND	
19 1,1-Dichloroethene	96		3.471				ND	7
21 Acetone	43	3.525	3.532	-0.007	81	13399	1.94	
25 Carbon disulfide	76		3.763				ND	7
29 Methylene Chloride	84		4.123				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.196	4.190	0.006	70	150618	50.0	
33 Methyl tert-butyl ether	73		4.525				ND	
34 trans-1,2-Dichloroethene	96		4.525				ND	
37 1,1-Dichloroethane	63		5.190				ND	
41 2-Butanone (MEK)	43	6.013	6.001	0.012	35	4210	0.3097	a
42 cis-1,2-Dichloroethene	96	6.013	6.031	-0.018	79	4243	0.0845	a
49 Chlorobromomethane	128		6.360				ND	
51 Chloroform	83	6.513	6.513	0.000	85	7269	0.0920	
$ 52 Dibromofluoromethane (Surr)	113	6.720	6.726	-0.006	94	517929	10.8	
53 1,1,1-Trichloroethane	97		6.738				ND	
56 Carbon tetrachloride	117		6.939				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.171	7.177	-0.006	30	113684	11.2	
60 Benzene	78		7.208				ND	
61 1,2-Dichloroethane	62		7.281				ND	
* 64 Fluorobenzene (IS)	96	7.610	7.616	-0.006	99	1997247	10.0	
68 Trichloroethene	95	8.092	8.092	0.000	92	4242	0.0852	
70 1,2-Dichloropropane	63		8.427				ND	
76 Dichlorobromomethane	83		8.774				ND	7
81 cis-1,3-Dichloropropene	75		9.323				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.500				ND	7
$ 83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	2024642	9.98	
84 Toluene	92	9.707	9.707	0.000	97	7847	0.0622	
96 trans-1,3-Dichloropropene	75		9.969				ND	
99 1,1,2-Trichloroethane	97		10.177				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
100 Tetrachloroethene	166	10.262	10.262	0.000	94	4465	0.0761	
102 2-Hexanone	43		10.396				ND	
104 Chlorodibromomethane	129		10.555				ND	
105 Ethylene Dibromide	107		10.664				ND	
* 106 Chlorobenzene-d5 (IS)	117	11.097	11.097	0.000	84	1583587	10.0	
108 Chlorobenzene	112		11.122				ND	
110 1,1,1,2-Tetrachloroethane	131		11.207				ND	
111 Ethylbenzene	91		11.213				ND	7
S 109 Xylenes, Total	106		11.245				ND	7
112 m-Xylene & p-Xylene	106		11.323				ND	7
113 o-Xylene	106		11.652				ND	7
114 Styrene	104		11.670				ND	
115 Bromoform	173		11.829				ND	
$ 119 4-Bromofluorobenzene (Surr)	95	12.097	12.097	0.000	92	707630	9.25	
120 1,1,2,2-Tetrachloroethane	83		12.201				ND	
* 134 1,4-Dichlorobenzene-d4	152	12.975	12.975	0.000	94	877334	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

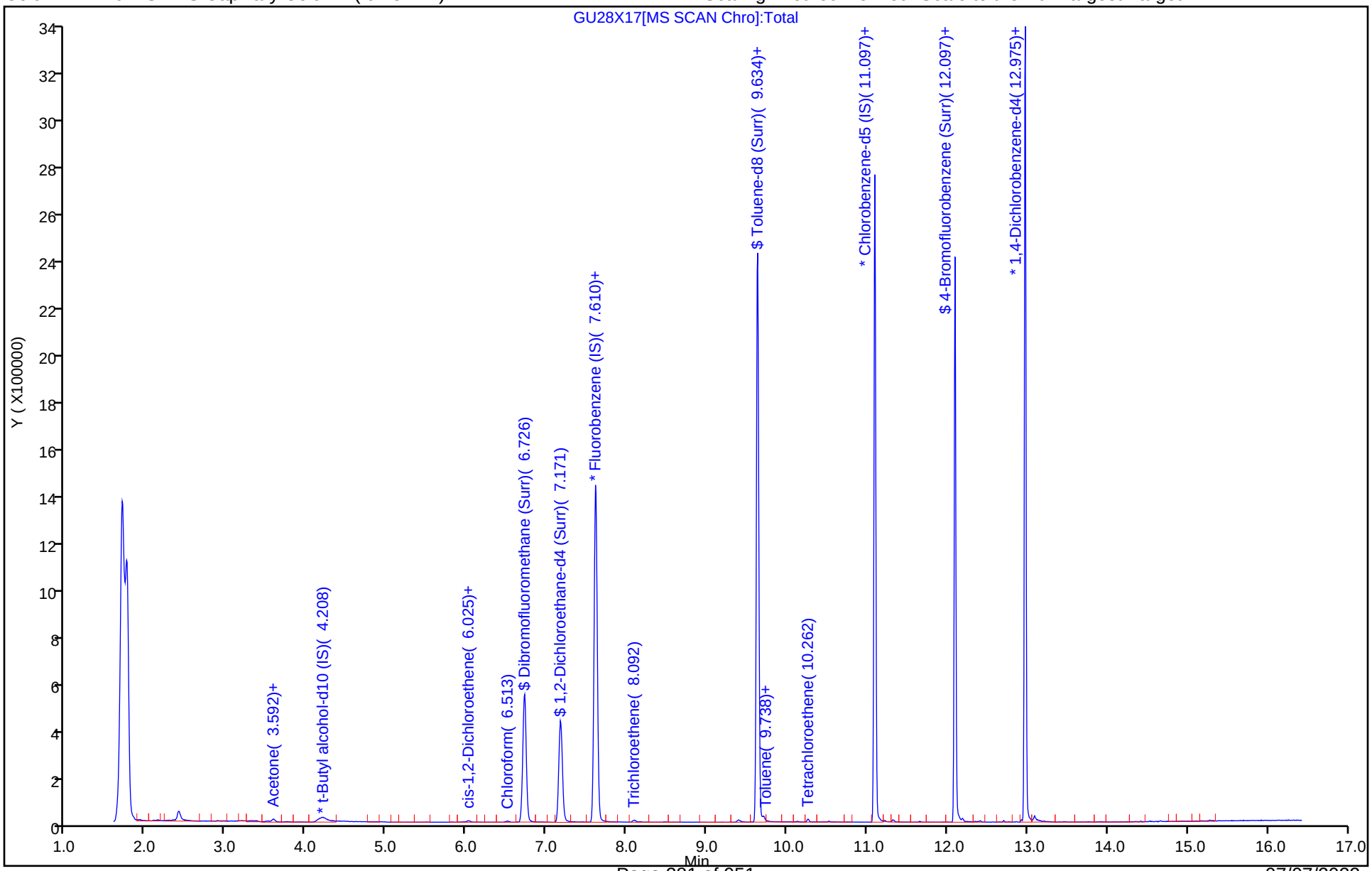
MSV_29_826ISS_00034 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 29-Jun-2022 14:06:19 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X17.D				
Injection Date:	28-Jun-2022 16:01:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-88520-A-2	Lab Sample ID:	410-88520-2	Worklist Smp#:	18
Client ID:	HD-COD-SW-7-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X17.D				
Lims ID:	410-88520-A-2				
Client ID:	HD-COD-SW-7-0/1-0				
Sample Type:	Client				
Inject. Date:	28-Jun-2022 16:01:30	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0060580-018				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	29-Jun-2022 14:06:19	Calib Date:	10-Jan-2022 23:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1674				

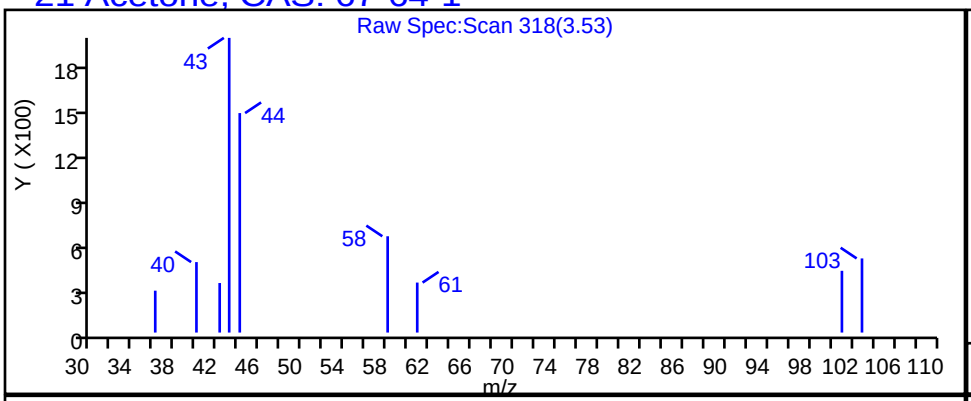
First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:06:19

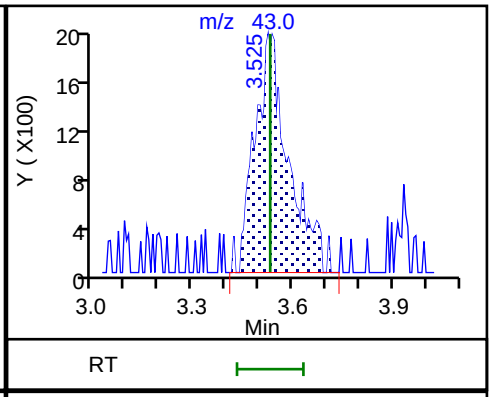
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.8	108.05
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	11.2	112.21
$ 83 Toluene-d8 (Surr)	10.0	9.98	99.85
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.25	92.49

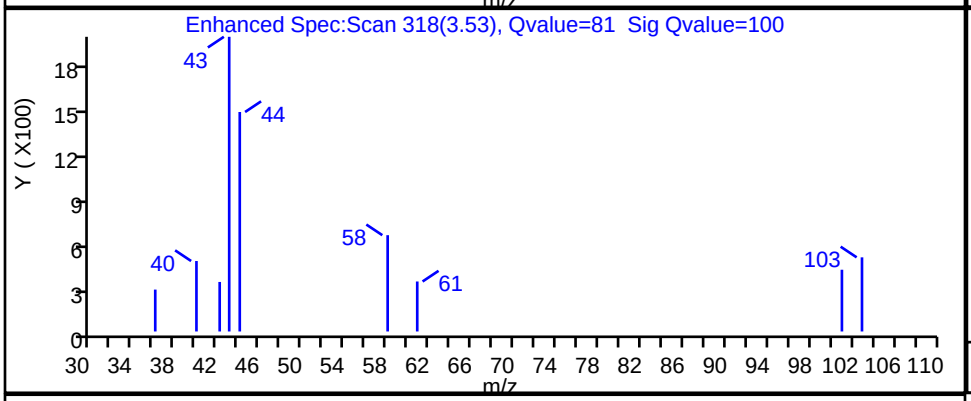
Eurofins Lancaster Laboratories Environment Testing, LLC

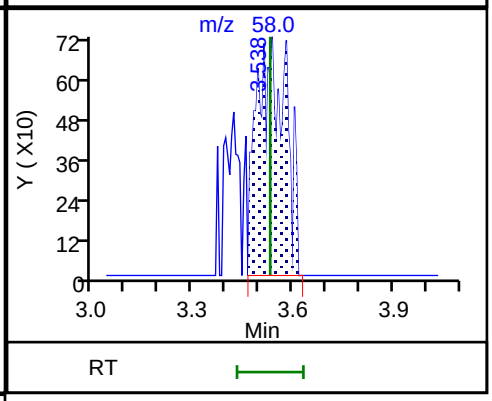
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X17.D				
Injection Date:	28-Jun-2022 16:01:30	Instrument ID:	16334		
Lims ID:	410-88520-A-2	Lab Sample ID:	410-88520-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

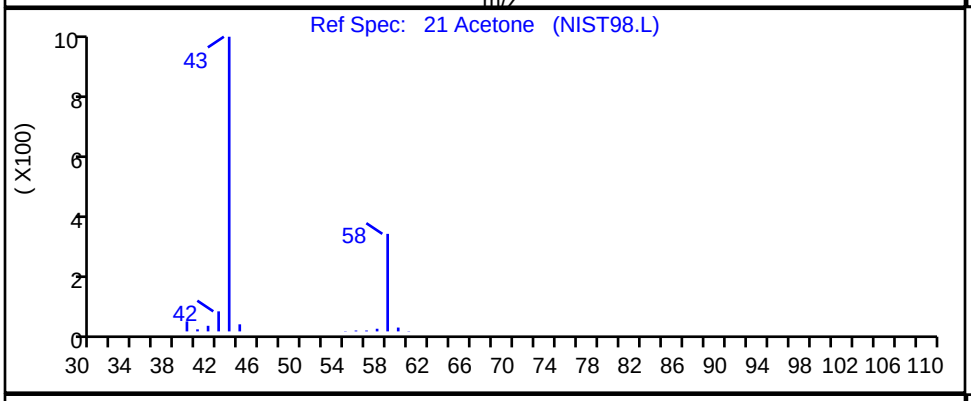
21 Acetone, CAS: 67-64-1

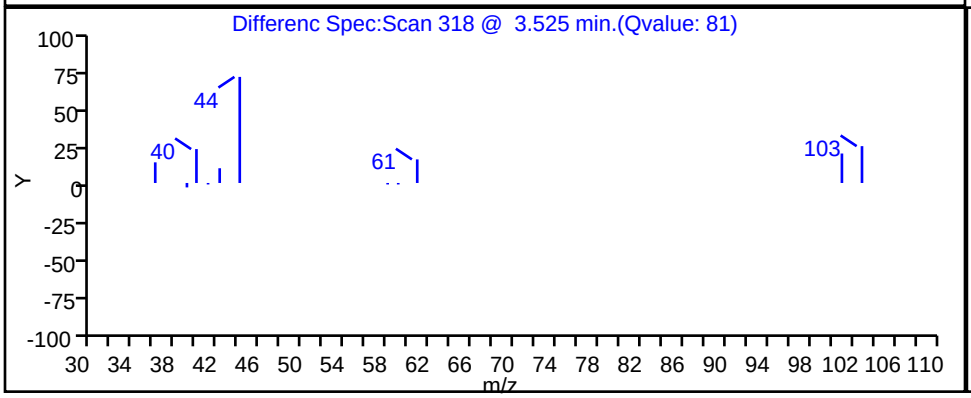


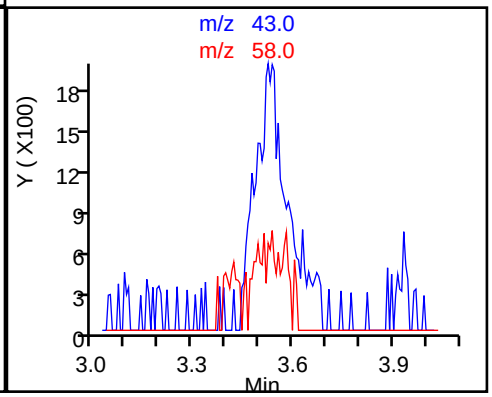








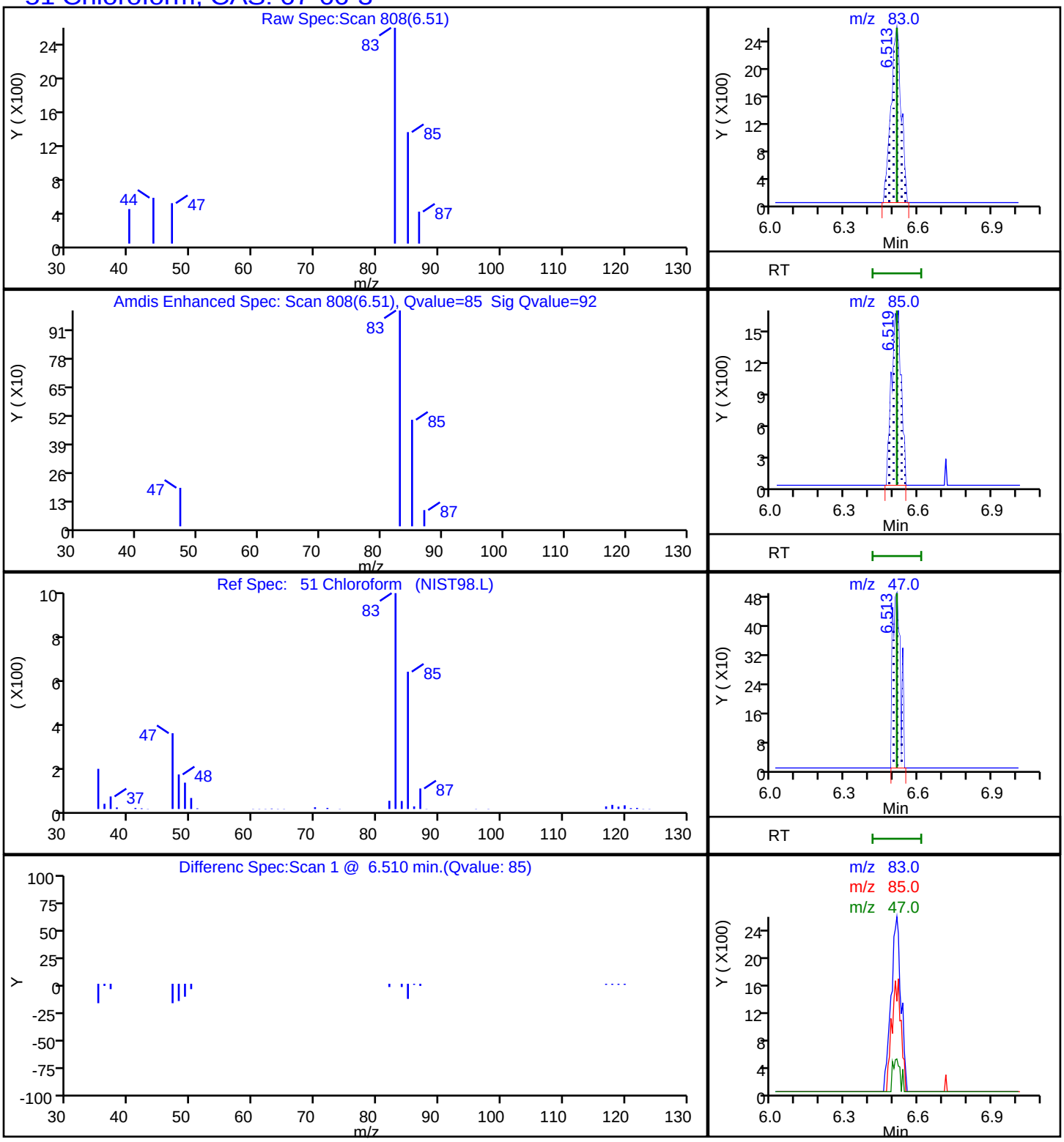




Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X17.D				
Injection Date:	28-Jun-2022 16:01:30	Instrument ID:	16334		
Lims ID:	410-88520-A-2	Lab Sample ID:	410-88520-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

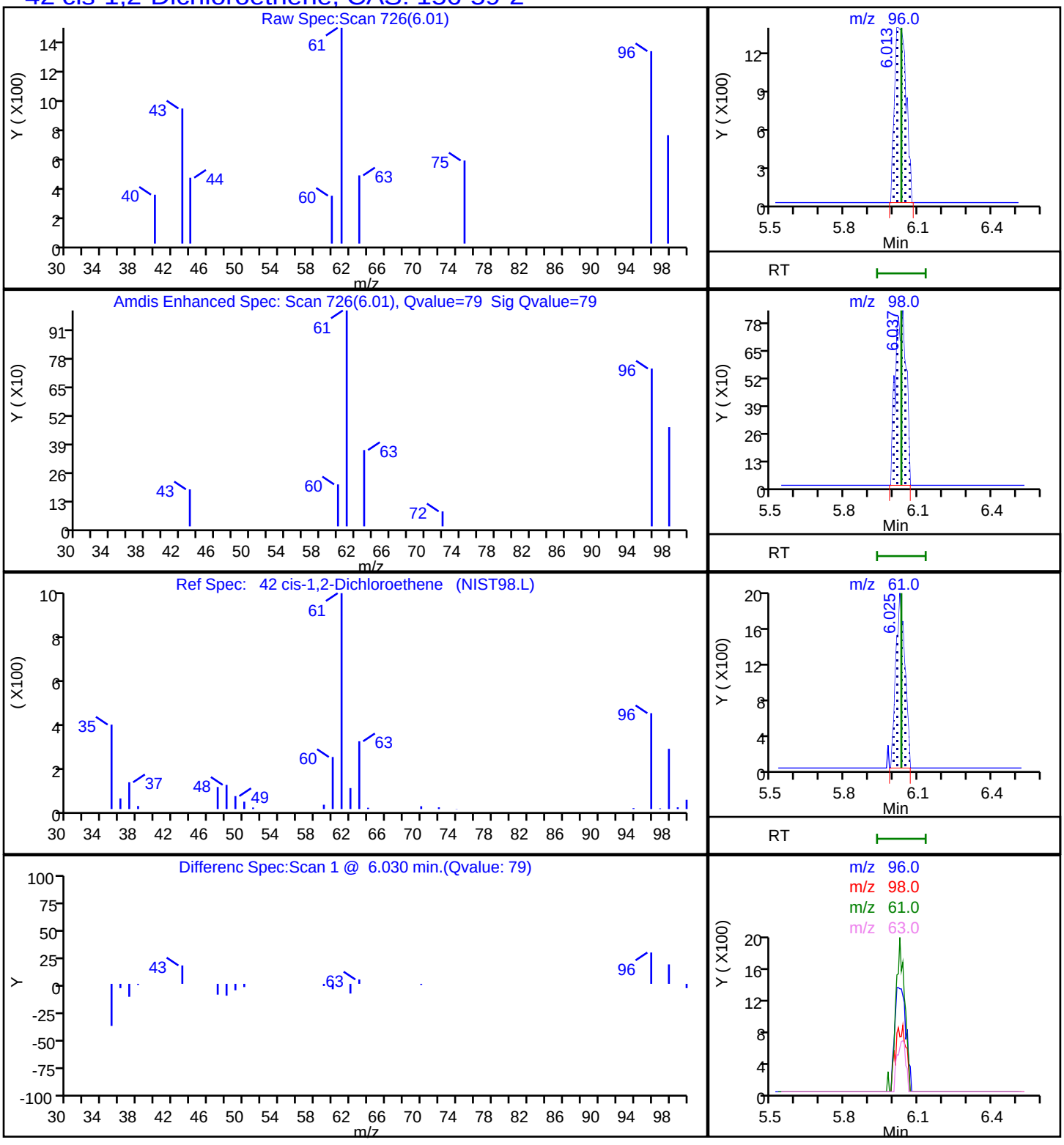
51 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X17.D				
Injection Date:	28-Jun-2022 16:01:30	Instrument ID:	16334		
Lims ID:	410-88520-A-2	Lab Sample ID:	410-88520-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

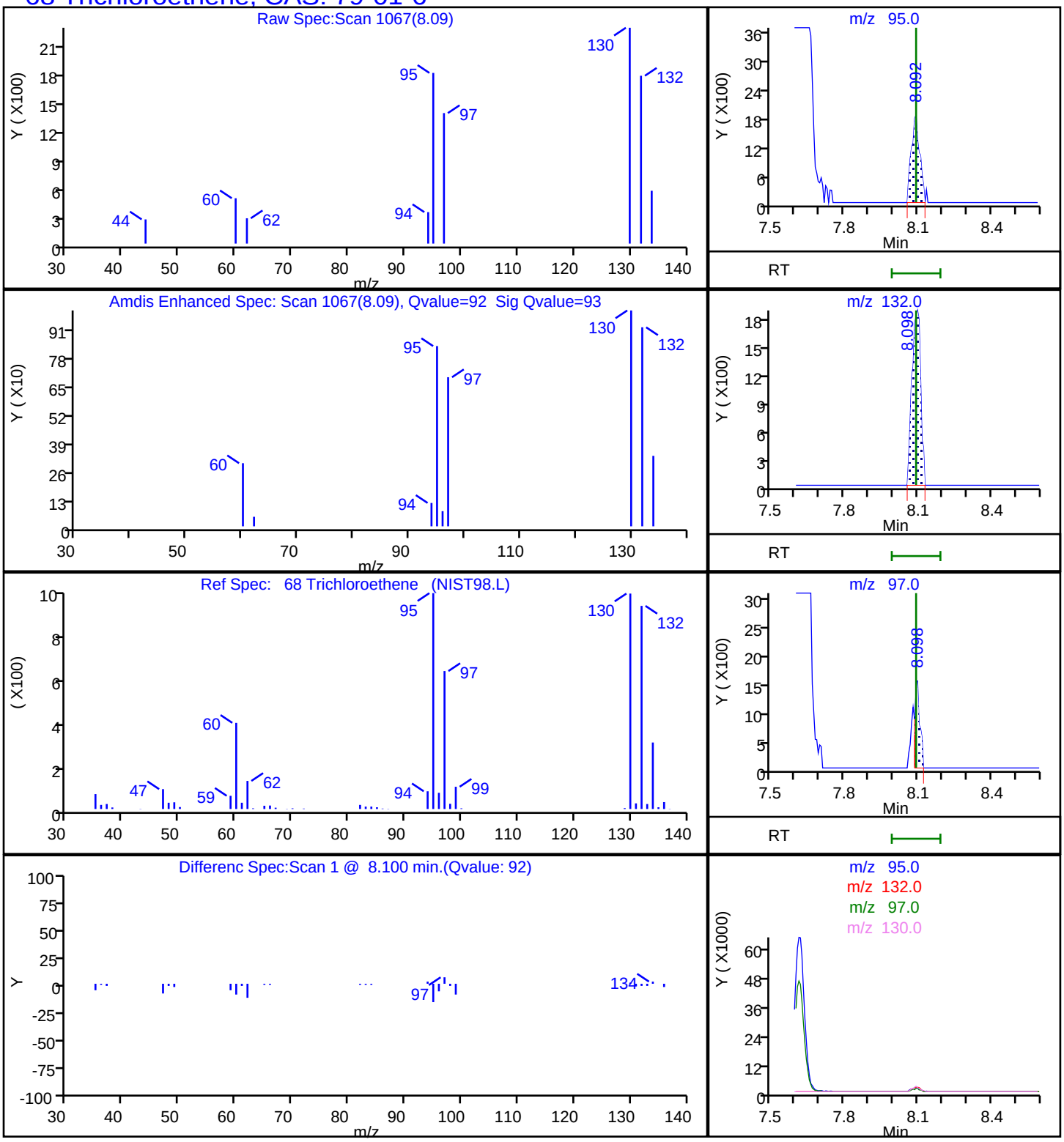
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X17.D				
Injection Date:	28-Jun-2022 16:01:30	Instrument ID:	16334		
Lims ID:	410-88520-A-2	Lab Sample ID:	410-88520-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

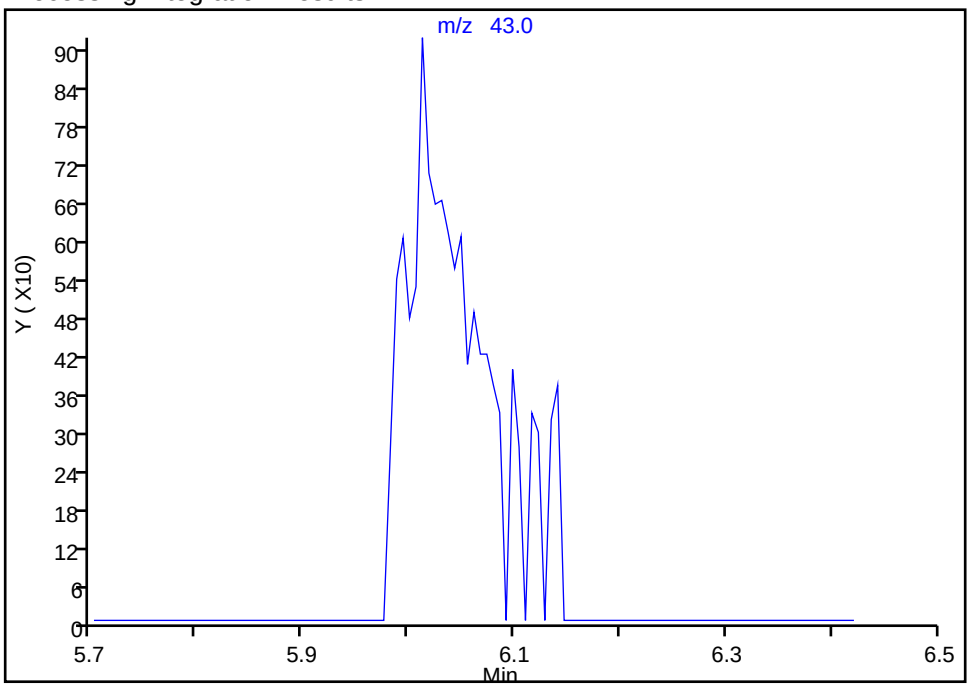
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X17.D				
Injection Date:	28-Jun-2022 16:01:30	Instrument ID:	16334		
Lims ID:	410-88520-A-2	Lab Sample ID:	410-88520-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

41 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

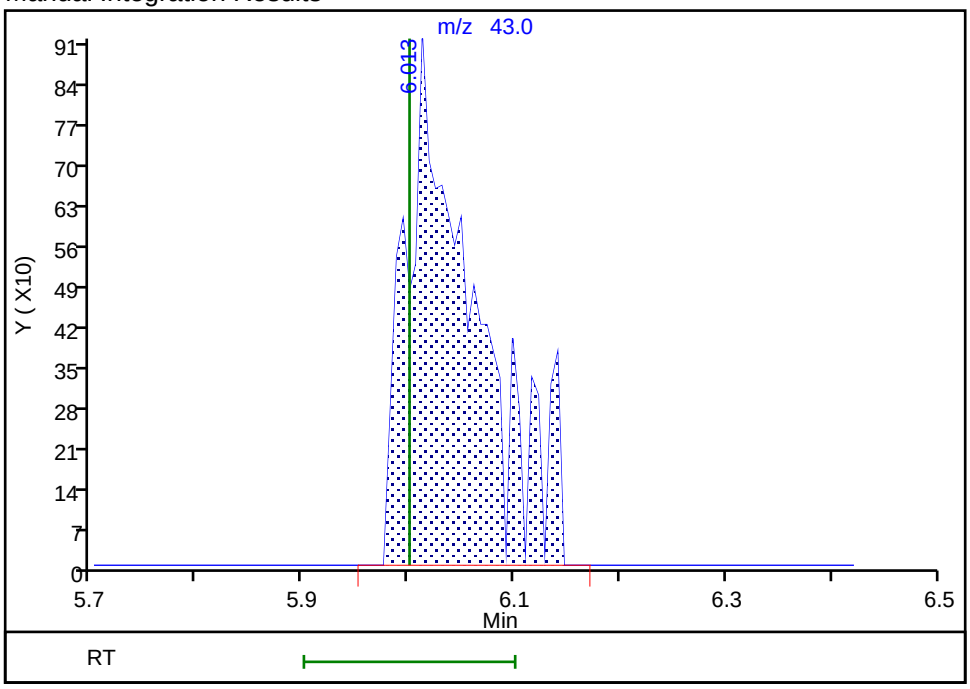
Not Detected
Expected RT: 6.00

Processing Integration Results



Manual Integration Results

RT: 6.01
Area: 4210
Amount: 0.309715
Amount Units: ug/l



Reviewer: kaewrungrueangp, 29-Jun-2022 14:05:55
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

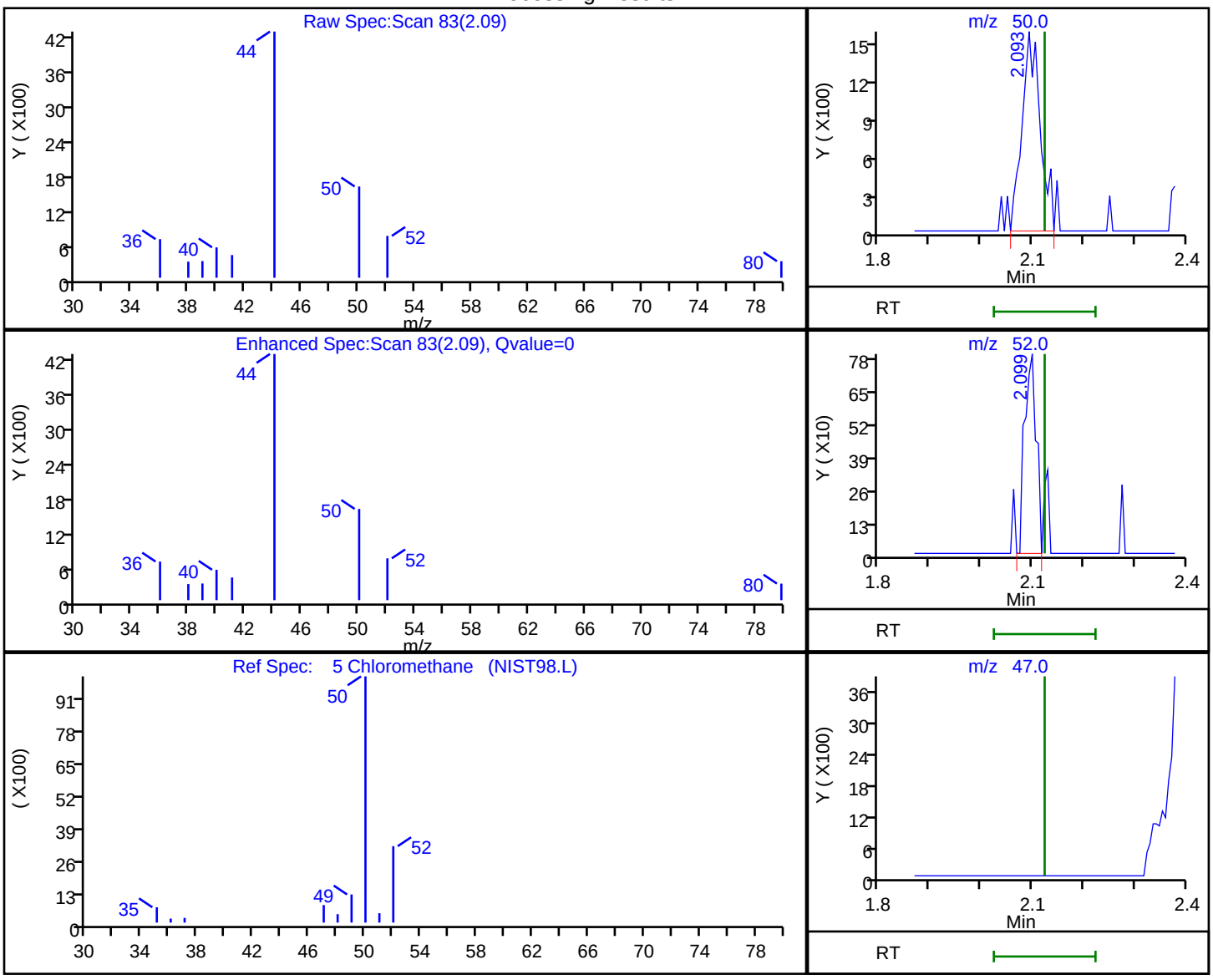
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X17.D				
Injection Date:	28-Jun-2022 16:01:30	Instrument ID:	16334		
Lims ID:	410-88520-A-2	Lab Sample ID:	410-88520-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

5 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
2.09	50.00	3880	0.070084
2.10	52.00	1269	
2.12	47.00	0	

Reviewer: kaewrungrueangp, 29-Jun-2022 14:05:40

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

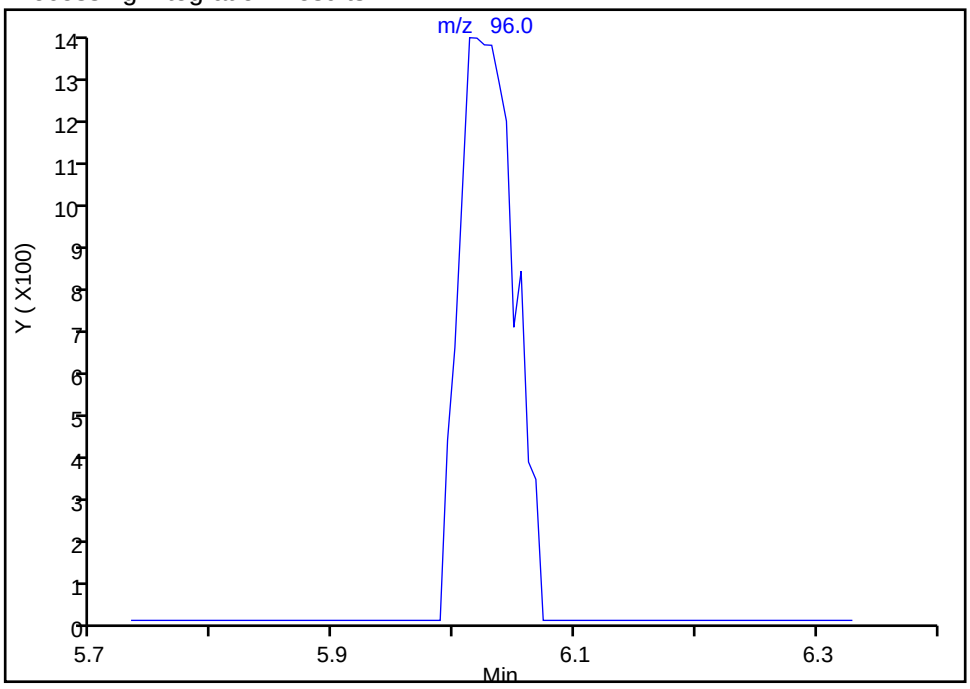
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X17.D				
Injection Date:	28-Jun-2022 16:01:30	Instrument ID:	16334		
Lims ID:	410-88520-A-2	Lab Sample ID:	410-88520-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

Signal: 1

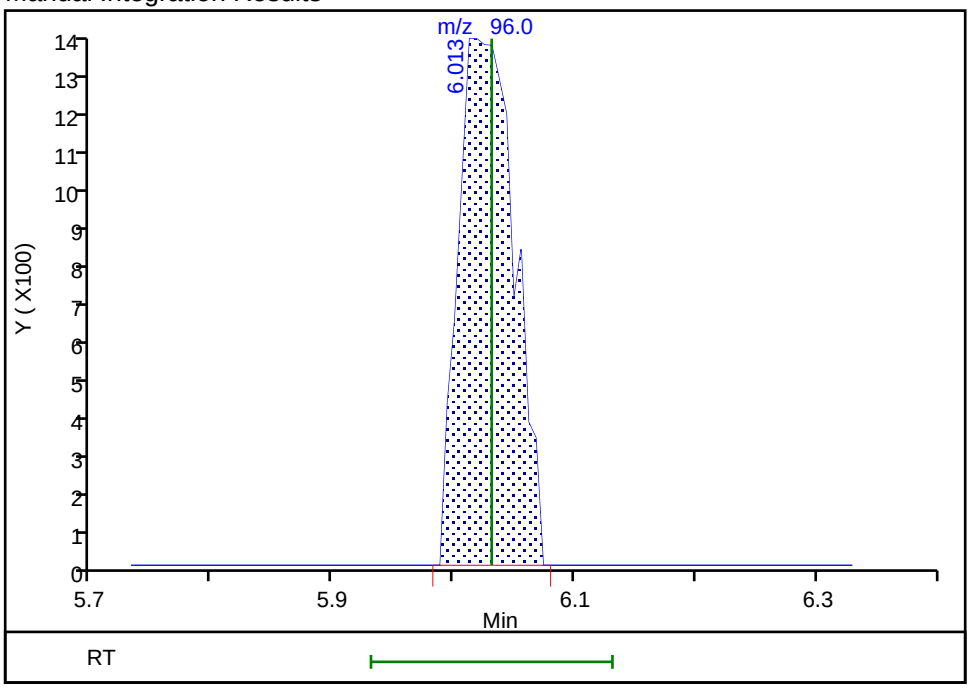
Not Detected
Expected RT: 6.03

Processing Integration Results



Manual Integration Results

RT: 6.01
Area: 4243
Amount: 0.084544
Amount Units: ug/l



Reviewer: kaewrungrueangp, 29-Jun-2022 14:05:51
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.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-8-0/1-0 Lab Sample ID: 410-88520-3

Matrix: Water Lab File ID: GU28X18.D

Analysis Method: 8260D Date Collected: 06/21/2022 09:20

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 16:23

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 270125 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.4	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.12	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.34	J	0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-8-0/1-0 Lab Sample ID: 410-88520-3

Matrix: Water Lab File ID: GU28X18.D

Analysis Method: 8260D Date Collected: 06/21/2022 09:20

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 16:23

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 270125 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)	111		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)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X18.D
Lims ID: 410-88520-A-3
Client ID: HD-COD-SW-8-0/1-0
Sample Type: Client
Inject. Date: 28-Jun-2022 16:23:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060580-019
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Jun-2022 14:07:13 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:07:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.123				ND	U
8 Vinyl chloride	62		2.233				ND	7
9 Bromomethane	94		2.562				ND	7
10 Chloroethane	64		2.641				ND	
19 1,1-Dichloroethene	96		3.471				ND	7
21 Acetone	43	3.532	3.532	0.000	68	19270	2.39	
25 Carbon disulfide	76		3.763				ND	7
29 Methylene Chloride	84		4.123				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.196	4.190	0.006	70	175086	50.0	
33 Methyl tert-butyl ether	73		4.525				ND	
34 trans-1,2-Dichloroethene	96		4.525				ND	
37 1,1-Dichloroethane	63		5.190				ND	
41 2-Butanone (MEK)	43		6.001				ND	
42 cis-1,2-Dichloroethene	96	6.037	6.031	0.006	76	5997	0.1198	a
49 Chlorobromomethane	128		6.360				ND	
51 Chloroform	83	6.513	6.513	0.000	82	4115	0.0522	
$ 52 Dibromofluoromethane (Surr)	113	6.732	6.726	0.006	94	521274	10.9	
53 1,1,1-Trichloroethane	97		6.738				ND	7
56 Carbon tetrachloride	117		6.939				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.177	0.000	30	111892	11.1	
60 Benzene	78		7.208				ND	
61 1,2-Dichloroethane	62		7.281				ND	
* 64 Fluorobenzene (IS)	96	7.616	7.616	0.000	99	1992721	10.0	
68 Trichloroethene	95	8.086	8.092	-0.006	92	6026	0.1214	a
70 1,2-Dichloropropane	63		8.427				ND	
76 Dichlorobromomethane	83		8.774				ND	
81 cis-1,3-Dichloropropene	75		9.323				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.500				ND	7
$ 83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	2019886	10.0	
84 Toluene	92	9.713	9.707	0.006	99	8285	0.0659	
96 trans-1,3-Dichloropropene	75		9.969				ND	
99 1,1,2-Trichloroethane	97		10.177				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
100 Tetrachloroethene	166	10.262	10.262	0.000	96	19720	0.3369	
102 2-Hexanone	43		10.396				ND	
104 Chlorodibromomethane	129		10.555				ND	
105 Ethylene Dibromide	107		10.664				ND	
* 106 Chlorobenzene-d5 (IS)	117	11.097	11.097	0.000	84	1578822	10.0	
108 Chlorobenzene	112		11.122				ND	
110 1,1,1,2-Tetrachloroethane	131		11.207				ND	
111 Ethylbenzene	91		11.213				ND	7
S 109 Xylenes, Total	106		11.245				ND	7
112 m-Xylene & p-Xylene	106		11.323				ND	7
113 o-Xylene	106		11.652				ND	
114 Styrene	104		11.670				ND	
115 Bromoform	173		11.829				ND	
$ 119 4-Bromofluorobenzene (Surr)	95	12.097	12.097	0.000	93	705103	9.24	
120 1,1,2,2-Tetrachloroethane	83		12.201				ND	
* 134 1,4-Dichlorobenzene-d4	152	12.975	12.975	0.000	94	876489	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

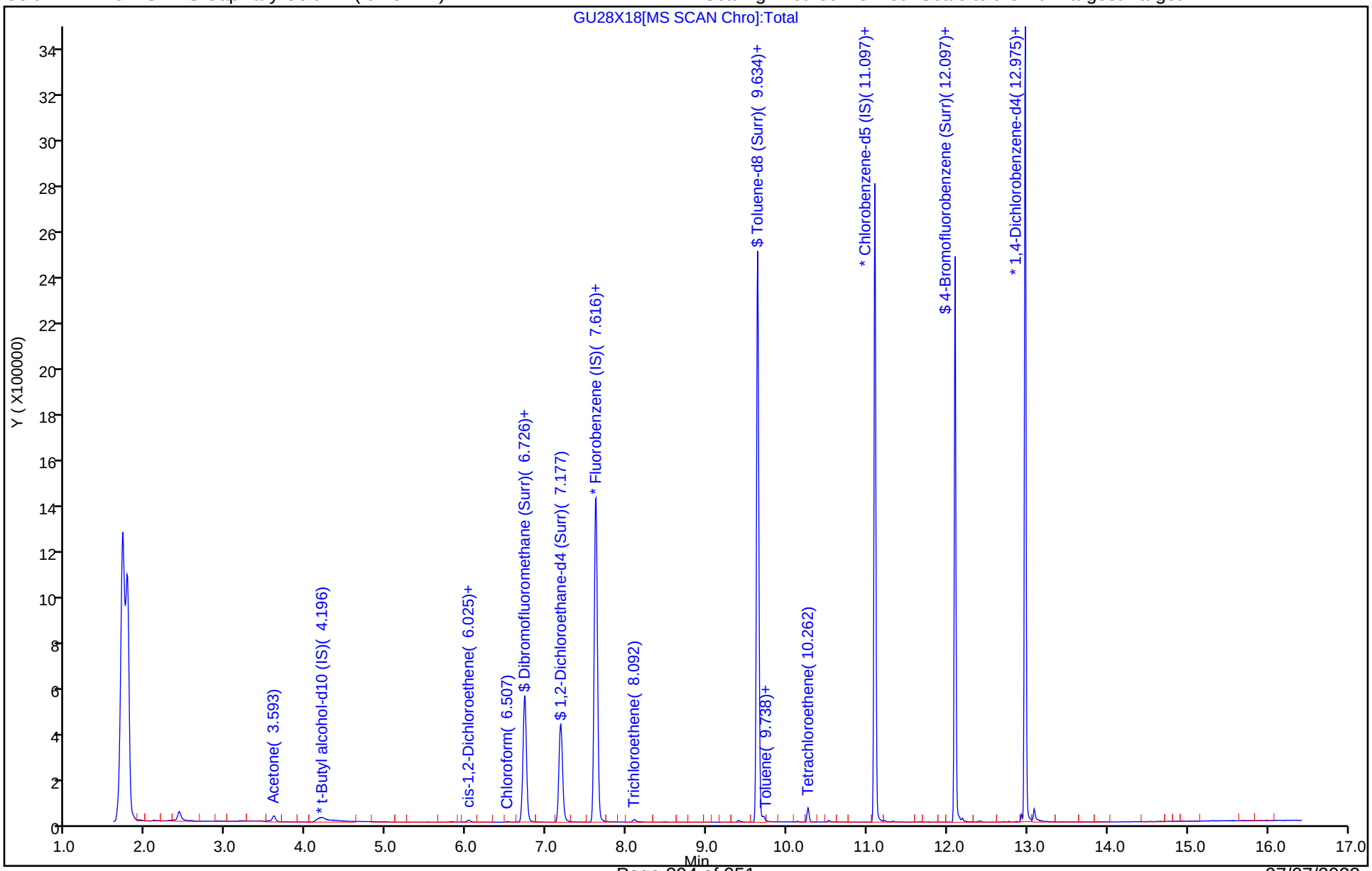
MSV_29_826ISS_00034 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 29-Jun-2022 14:07:14 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X18.D				
Injection Date:	28-Jun-2022 16:23:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-88520-A-3	Lab Sample ID:	410-88520-3	Worklist Smp#:	19
Client ID:	HD-COD-SW-8-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X18.D				
Lims ID:	410-88520-A-3				
Client ID:	HD-COD-SW-8-0/1-0				
Sample Type:	Client				
Inject. Date:	28-Jun-2022 16:23:30	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0060580-019				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	29-Jun-2022 14:07:13	Calib Date:	10-Jan-2022 23:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1674				

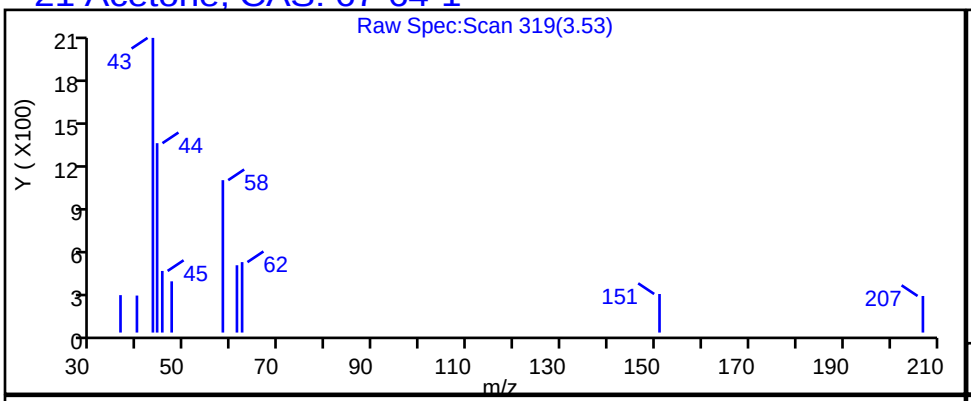
First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:07:13

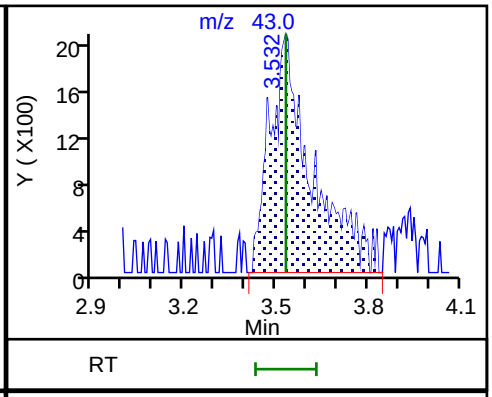
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.9	108.99
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	11.1	110.69
$ 83 Toluene-d8 (Surr)	10.0	10.0	99.92
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.24	92.43

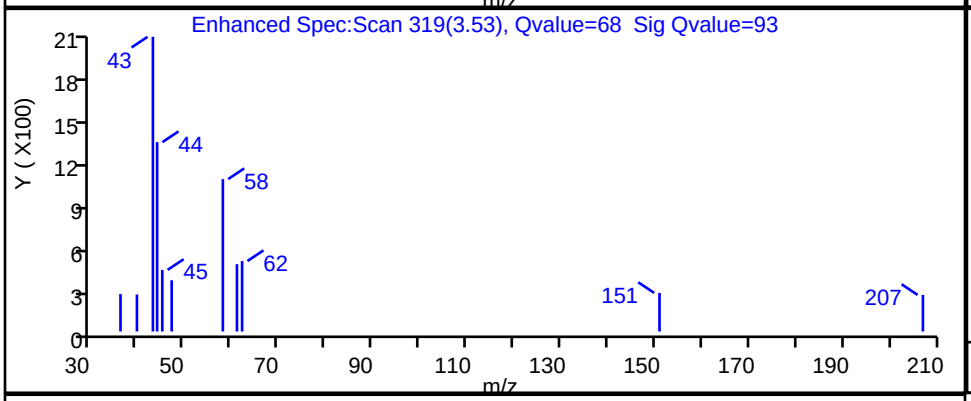
Eurofins Lancaster Laboratories Environment Testing, LLC

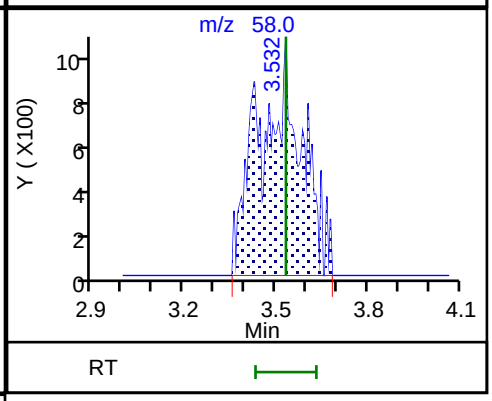
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X18.D				
Injection Date:	28-Jun-2022 16:23:30	Instrument ID:	16334		
Lims ID:	410-88520-A-3	Lab Sample ID:	410-88520-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

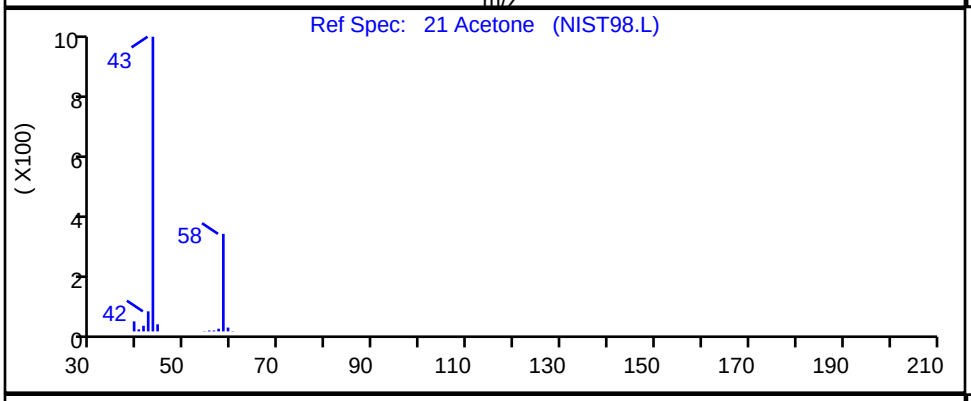
21 Acetone, CAS: 67-64-1

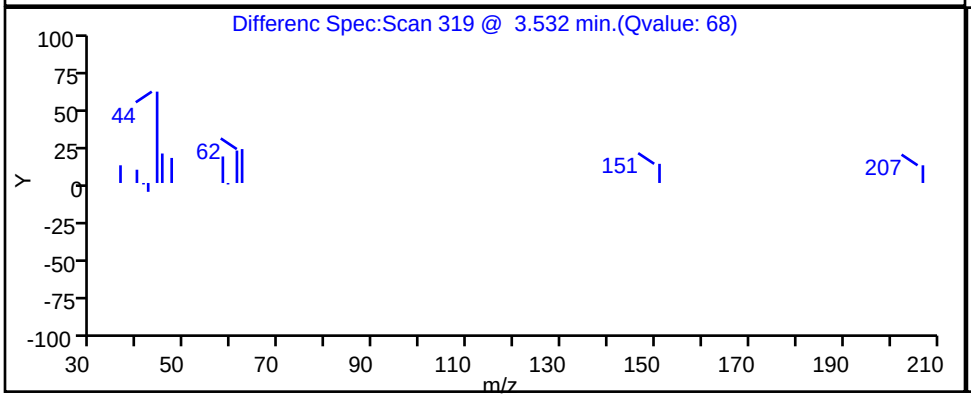


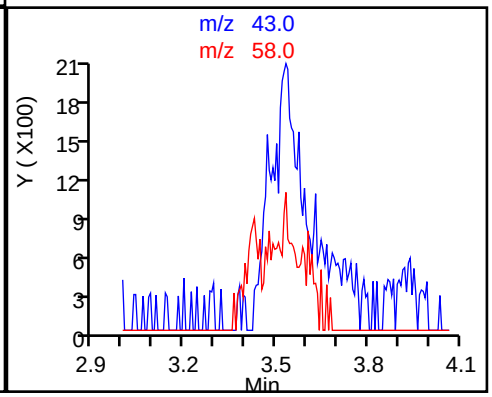








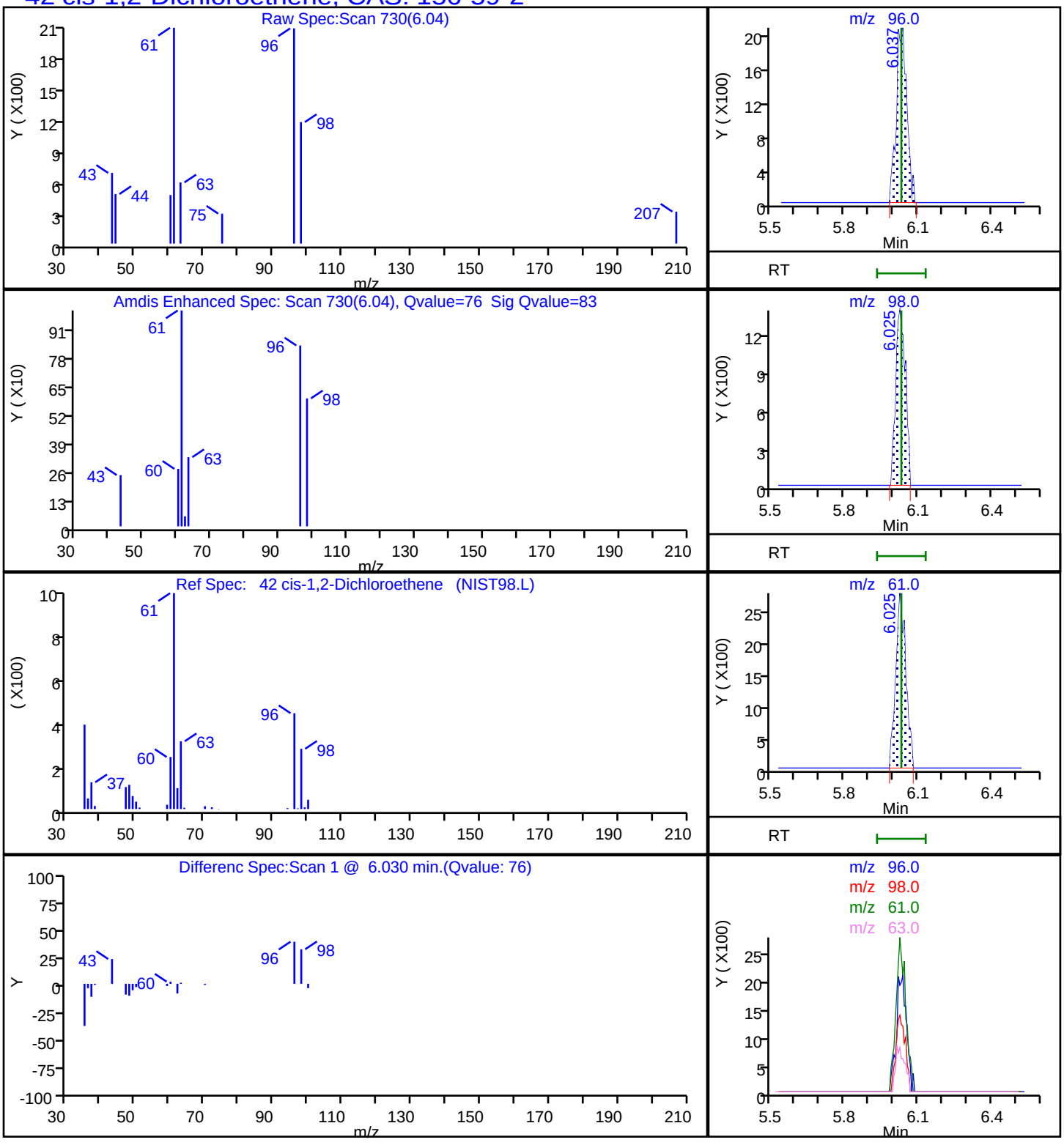




Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X18.D				
Injection Date:	28-Jun-2022 16:23:30	Instrument ID:	16334		
Lims ID:	410-88520-A-3	Lab Sample ID:	410-88520-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

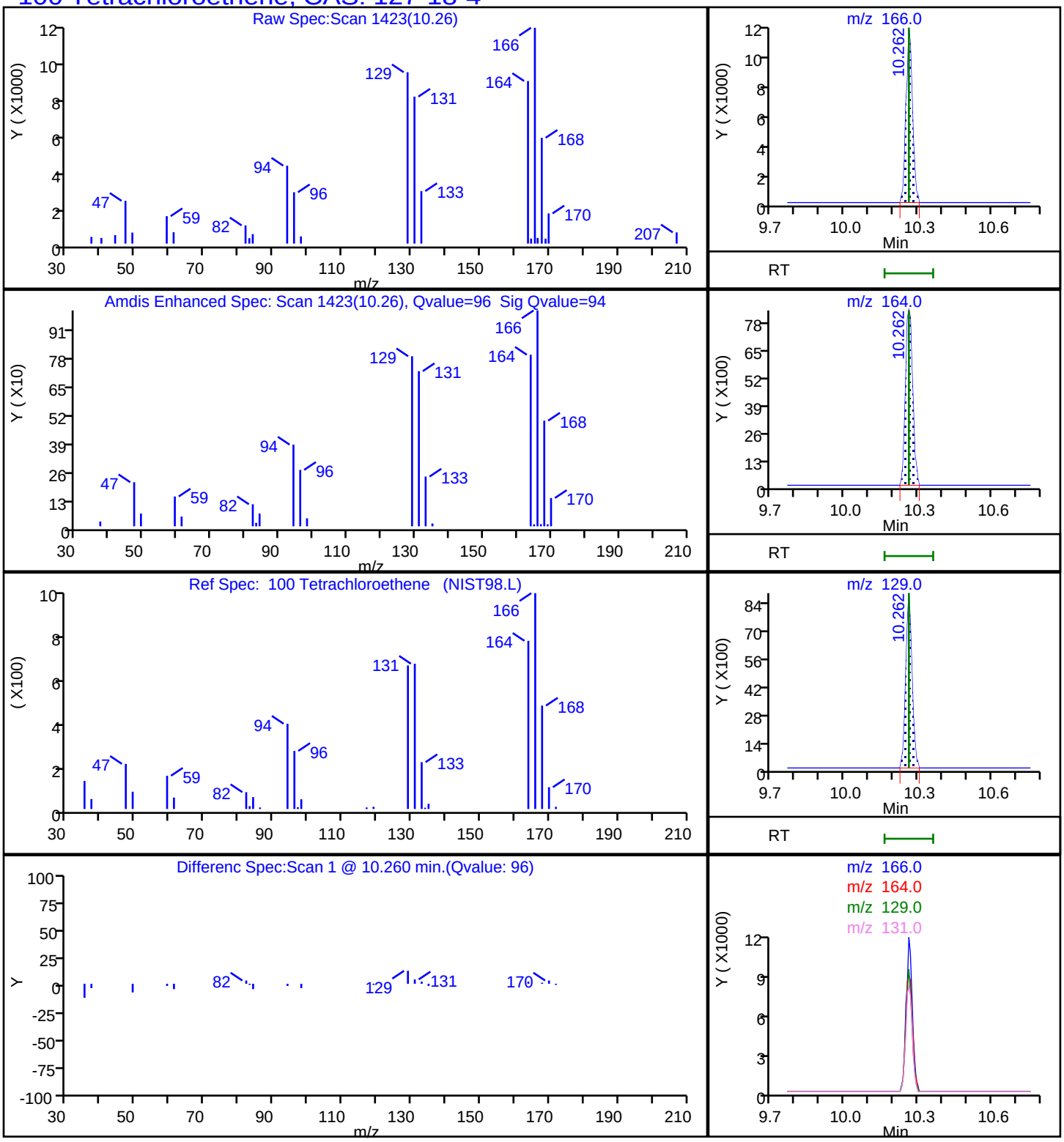
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X18.D				
Injection Date:	28-Jun-2022 16:23:30	Instrument ID:	16334		
Lims ID:	410-88520-A-3	Lab Sample ID:	410-88520-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

100 Tetrachloroethene, CAS: 127-18-4

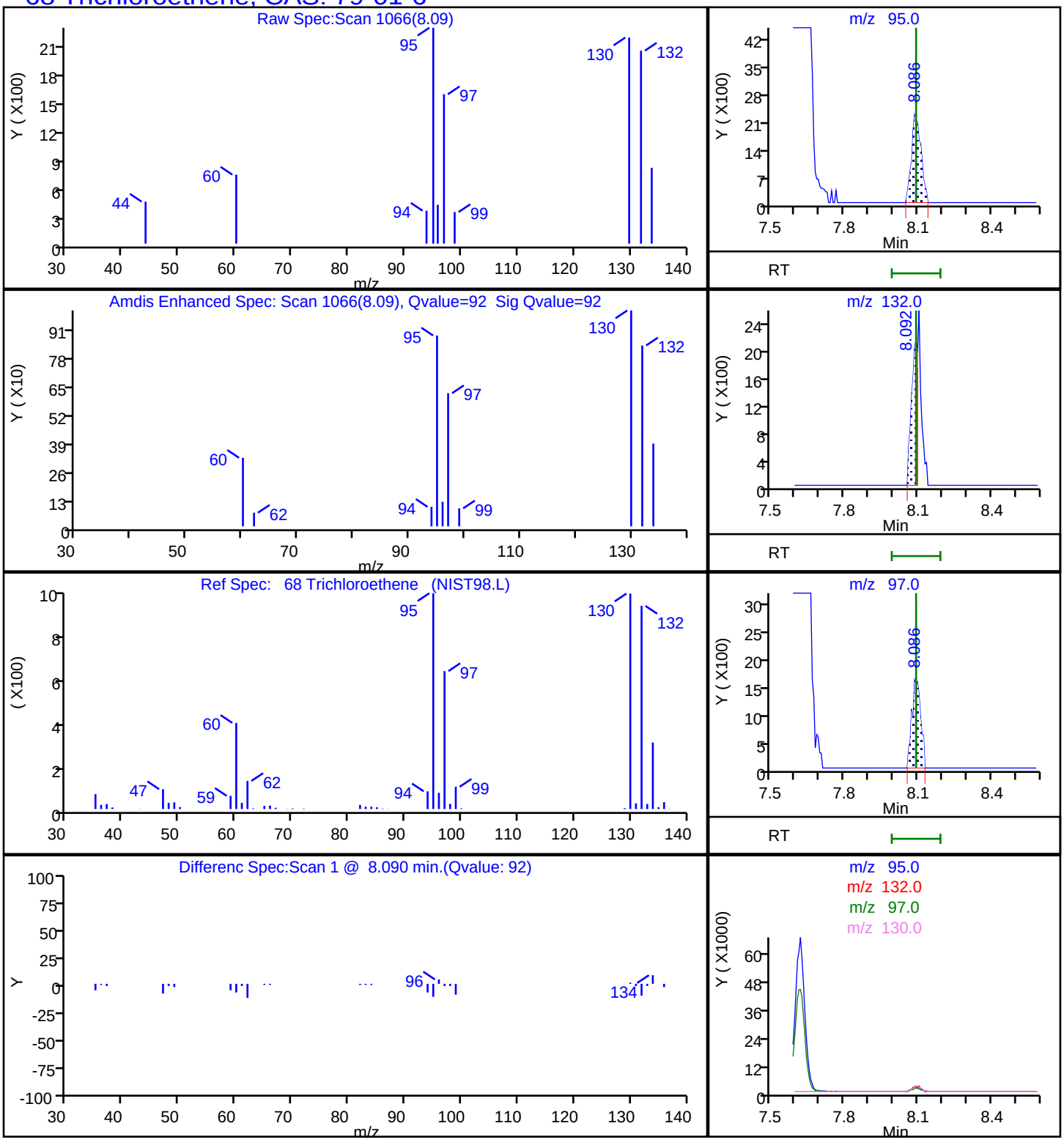


Report Date: 29-Jun-2022 14:07:14 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X18.D				
Injection Date:	28-Jun-2022 16:23:30	Instrument ID:	16334		
Lims ID:	410-88520-A-3	Lab Sample ID:	410-88520-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



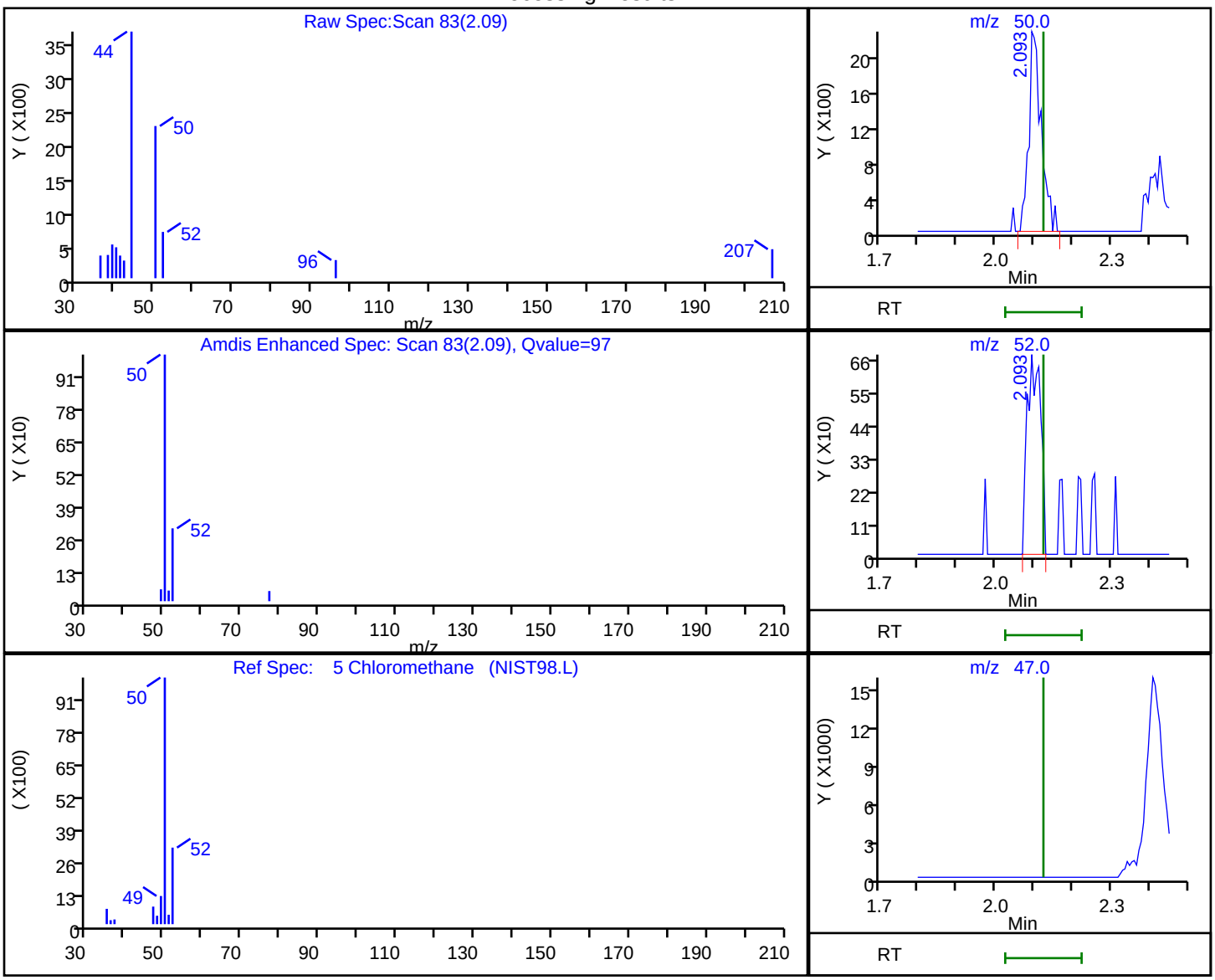
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X18.D				
Injection Date:	28-Jun-2022 16:23:30	Instrument ID:	16334		
Lims ID:	410-88520-A-3	Lab Sample ID:	410-88520-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

5 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
2.09	50.00	5050	0.091425
2.09	52.00	1668	
2.12	47.00	0	

Reviewer: kaewrungrueangp, 29-Jun-2022 14:06:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

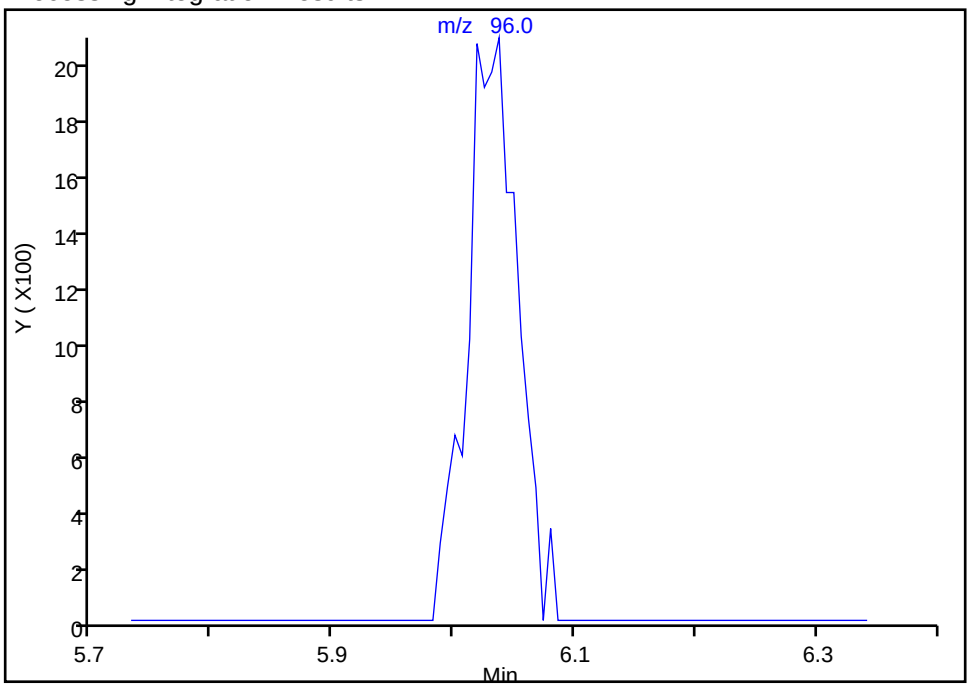
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X18.D				
Injection Date:	28-Jun-2022 16:23:30	Instrument ID:	16334		
Lims ID:	410-88520-A-3	Lab Sample ID:	410-88520-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

Signal: 1

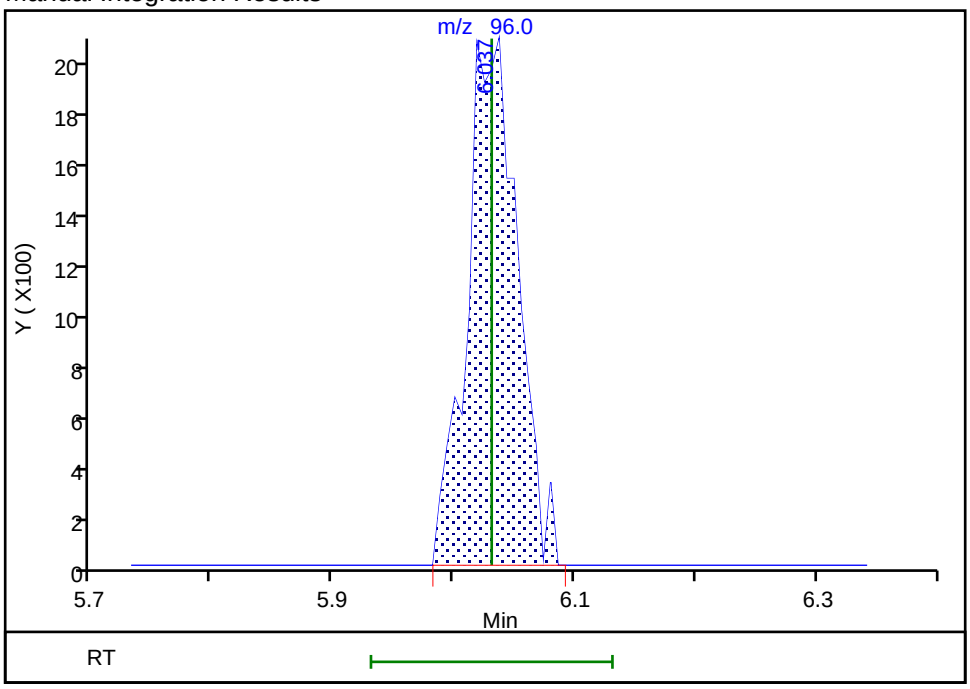
Processing Integration Results

Not Detected
Expected RT: 6.03



Manual Integration Results

RT: 6.04
Area: 5997
Amount: 0.119765
Amount Units: ug/l



Reviewer: kaewrungrueangp, 29-Jun-2022 14:06:46
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

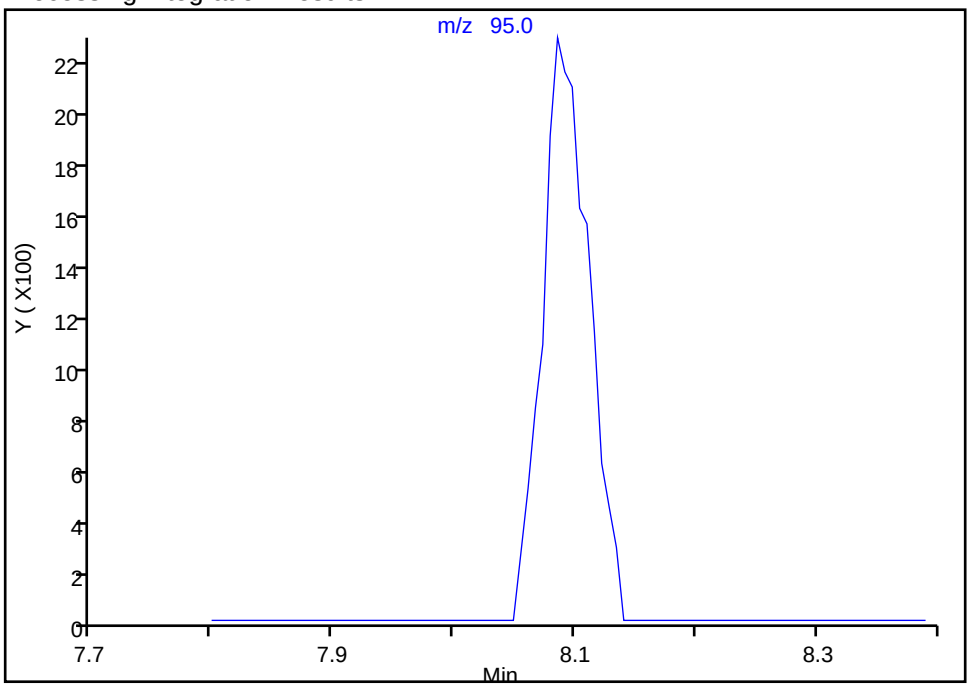
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X18.D				
Injection Date:	28-Jun-2022 16:23:30	Instrument ID:	16334		
Lims ID:	410-88520-A-3	Lab Sample ID:	410-88520-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6

Signal: 1

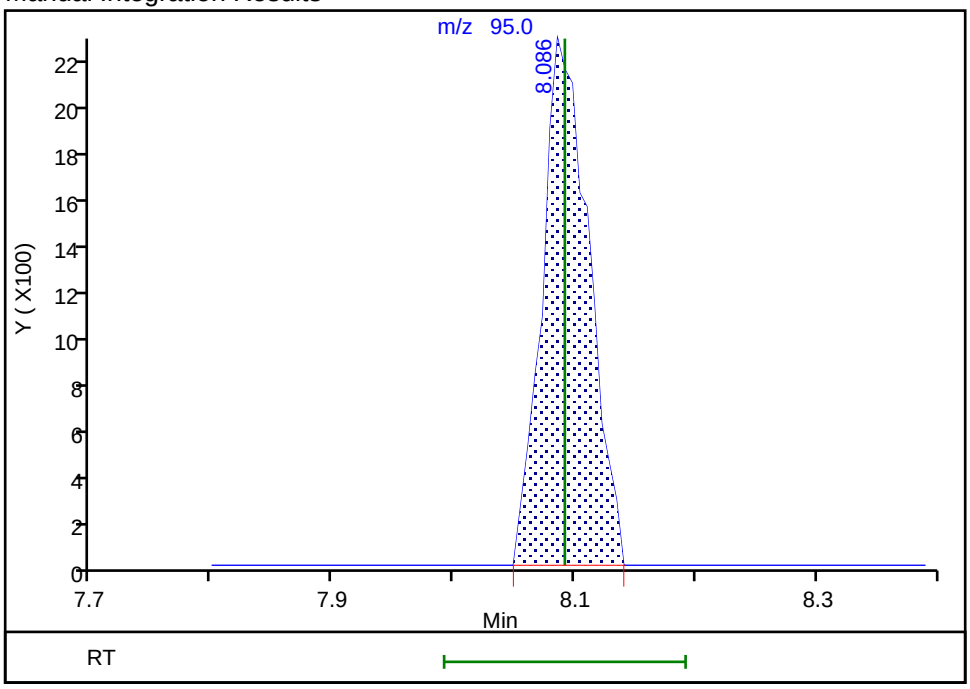
Not Detected
Expected RT: 8.09

Processing Integration Results



Manual Integration Results

RT: 8.09
Area: 6026
Amount: 0.121352
Amount Units: ug/l



Reviewer: kaewrungrueangp, 29-Jun-2022 14:07:02
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.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-9-0/1-0 Lab Sample ID: 410-88520-4

Matrix: Water Lab File ID: GU28X19.D

Analysis Method: 8260D Date Collected: 06/21/2022 13:20

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 16:45

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 270125 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	3.0	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.085	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.21	J	0.50	0.20
108-88-3	Toluene	0.11	J	0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-9-0/1-0 Lab Sample ID: 410-88520-4

Matrix: Water Lab File ID: GU28X19.D

Analysis Method: 8260D Date Collected: 06/21/2022 13:20

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 16:45

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 270125 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	0.093	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)	113		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)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X19.D
Lims ID: 410-88520-A-4
Client ID: HD-COD-SW-9-0/1-0
Sample Type: Client
Inject. Date: 28-Jun-2022 16:45:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060580-020
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Jun-2022 14:07:47 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:07:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.123				ND	U
8 Vinyl chloride	62		2.233				ND	
9 Bromomethane	94		2.562				ND	
10 Chloroethane	64		2.641				ND	
19 1,1-Dichloroethene	96		3.471				ND	7
21 Acetone	43	3.519	3.532	-0.013	82	22767	2.95	
25 Carbon disulfide	76		3.763				ND	7
29 Methylene Chloride	84		4.123				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.184	4.190	-0.006	70	167748	50.0	
33 Methyl tert-butyl ether	73		4.525				ND	
34 trans-1,2-Dichloroethene	96		4.525				ND	
37 1,1-Dichloroethane	63		5.190				ND	
41 2-Butanone (MEK)	43	6.013	6.001	0.012	98	14129	0.9333	
42 cis-1,2-Dichloroethene	96	6.025	6.031	-0.006	76	4166	0.0846	
49 Chlorobromomethane	128		6.360				ND	
51 Chloroform	83	6.507	6.513	-0.006	90	6642	0.0856	
$ 52 Dibromofluoromethane (Surr)	113	6.726	6.726	0.000	94	512716	10.9	
53 1,1,1-Trichloroethane	97		6.738				ND	
56 Carbon tetrachloride	117		6.939				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.177	0.000	30	112447	11.3	
60 Benzene	78		7.208				ND	
61 1,2-Dichloroethane	62		7.281				ND	
* 64 Fluorobenzene (IS)	96	7.616	7.616	0.000	99	1960670	10.0	
68 Trichloroethene	95	8.092	8.092	0.000	88	4522	0.0926	
70 1,2-Dichloropropane	63		8.427				ND	
76 Dichlorobromomethane	83		8.774				ND	
81 cis-1,3-Dichloropropene	75		9.323				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.500				ND	7
$ 83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	2014238	10.1	
84 Toluene	92	9.707	9.707	0.000	97	13336	0.1071	
96 trans-1,3-Dichloropropene	75		9.969				ND	
99 1,1,2-Trichloroethane	97		10.177				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
100 Tetrachloroethene	166	10.262	10.262	0.000	96	12355	0.2133	
102 2-Hexanone	43		10.396				ND	7
104 Chlorodibromomethane	129		10.555				ND	
105 Ethylene Dibromide	107		10.664				ND	
* 106 Chlorobenzene-d5 (IS)	117	11.097	11.097	0.000	84	1562598	10.0	
108 Chlorobenzene	112		11.122				ND	
110 1,1,1,2-Tetrachloroethane	131		11.207				ND	
111 Ethylbenzene	91		11.213				ND	7
S 109 Xylenes, Total	106		11.245				ND	7
112 m-Xylene & p-Xylene	106	11.323	11.323	0.000	98	5793	0.0618	
113 o-Xylene	106		11.652				ND	7
114 Styrene	104		11.670				ND	
115 Bromoform	173		11.829				ND	
$ 119 4-Bromofluorobenzene (Surr)	95	12.097	12.097	0.000	93	696602	9.23	
120 1,1,2,2-Tetrachloroethane	83		12.201				ND	
* 134 1,4-Dichlorobenzene-d4	152	12.975	12.975	0.000	94	882805	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

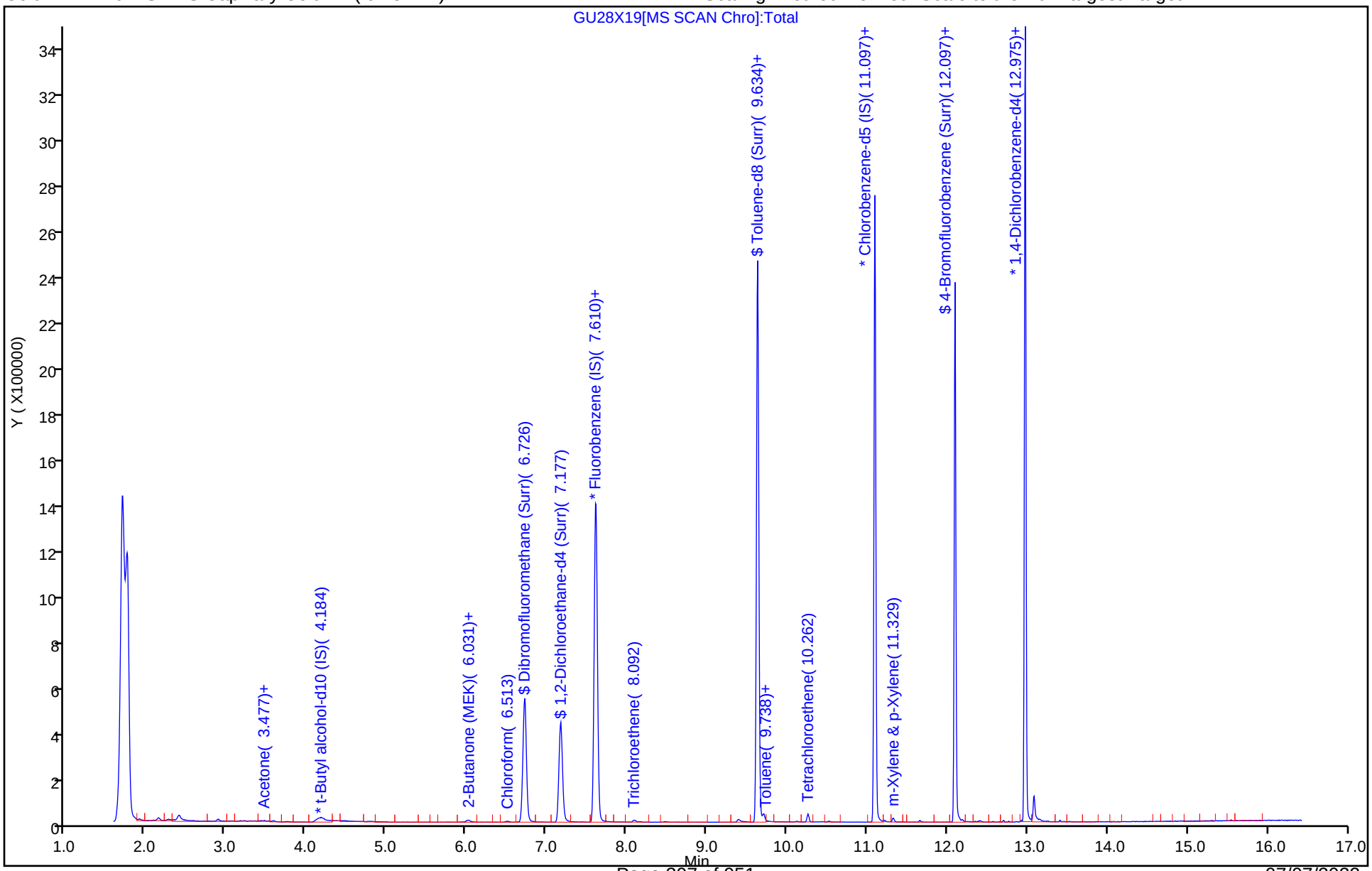
MSV_29_826ISS_00034 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 29-Jun-2022 14:07:47 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X19.D				
Injection Date:	28-Jun-2022 16:45:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-88520-A-4	Lab Sample ID:	410-88520-4	Worklist Smp#:	20
Client ID:	HD-COD-SW-9-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X19.D				
Lims ID:	410-88520-A-4				
Client ID:	HD-COD-SW-9-0/1-0				
Sample Type:	Client				
Inject. Date:	28-Jun-2022 16:45:30	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0060580-020				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	29-Jun-2022 14:07:47	Calib Date:	10-Jan-2022 23:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1674				

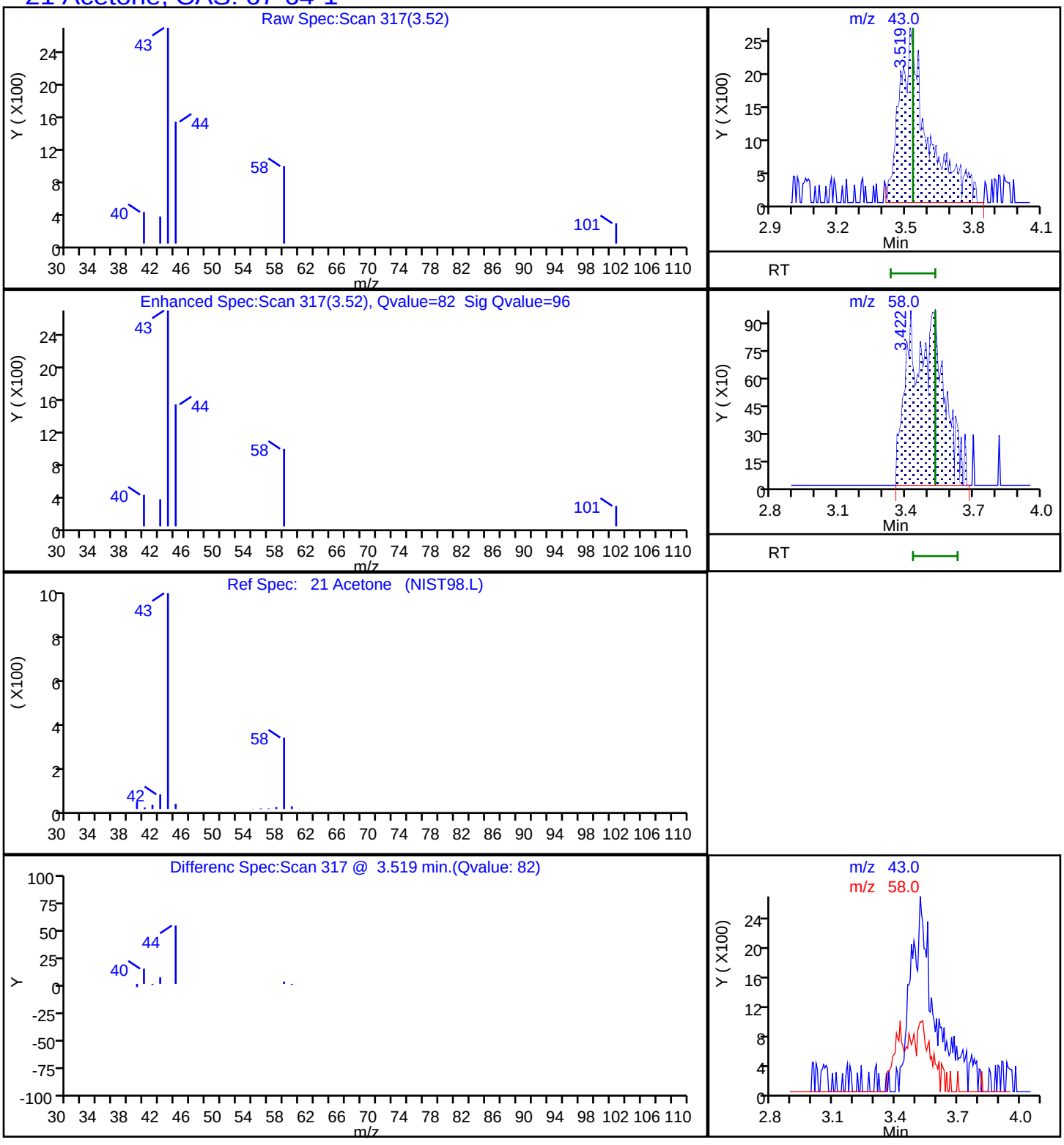
First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:07:47

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.9	108.95
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	11.3	113.06
$ 83 Toluene-d8 (Surr)	10.0	10.1	100.67
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.23	92.27

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X19.D				
Injection Date:	28-Jun-2022 16:45:30	Instrument ID:	16334		
Lims ID:	410-88520-A-4	Lab Sample ID:	410-88520-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

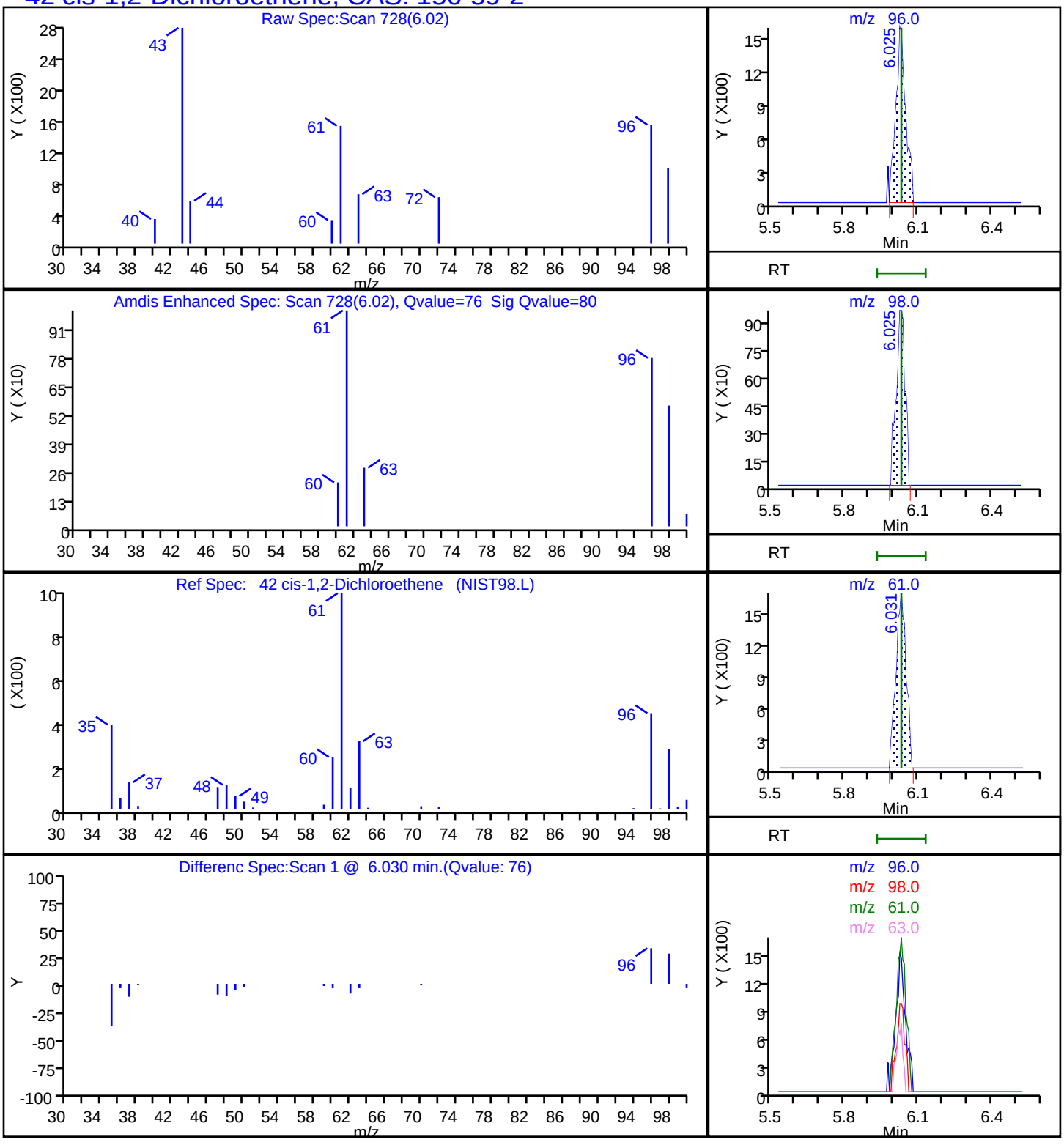
21 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X19.D				
Injection Date:	28-Jun-2022 16:45:30	Instrument ID:	16334		
Lims ID:	410-88520-A-4	Lab Sample ID:	410-88520-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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

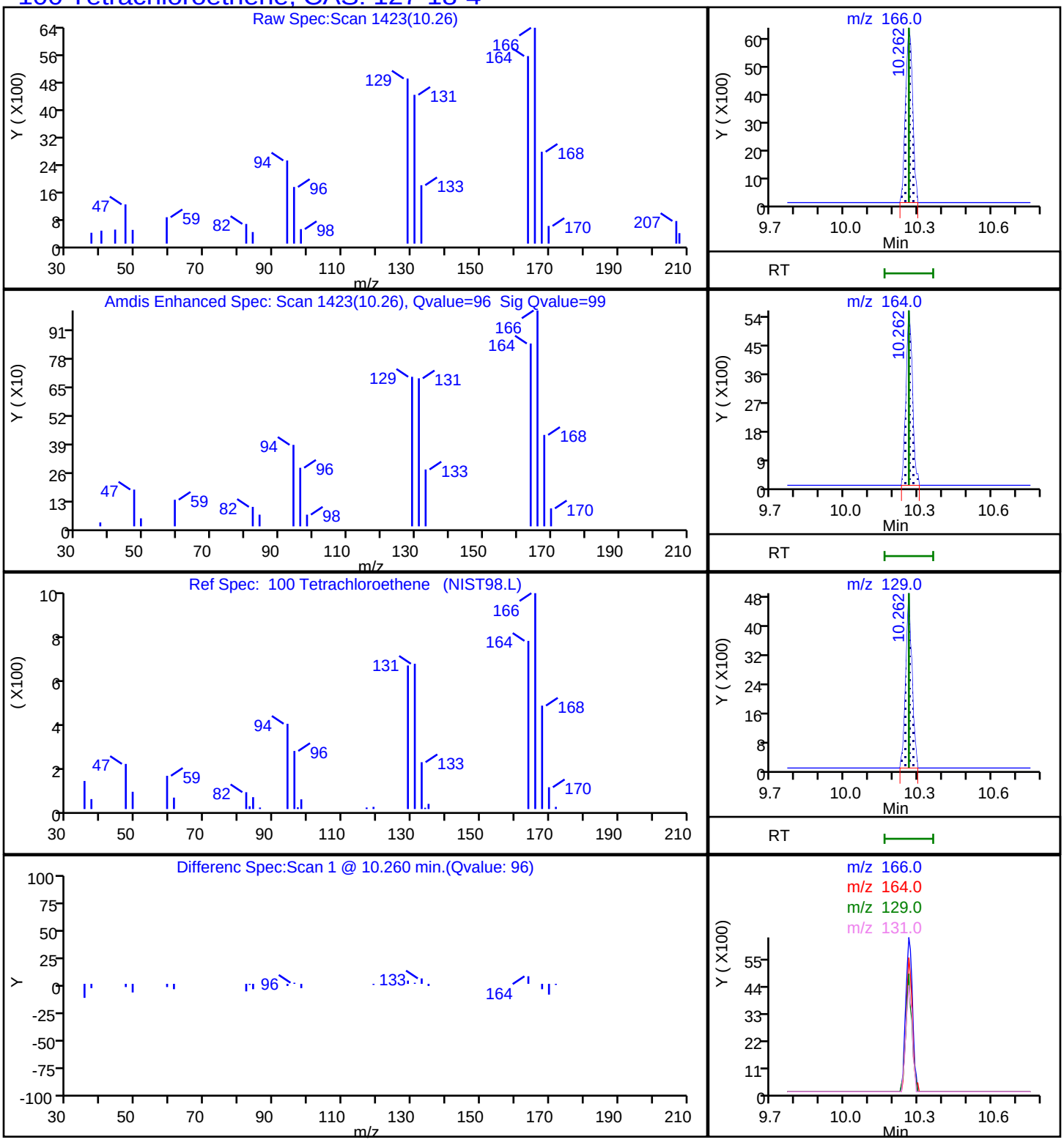


Report Date: 29-Jun-2022 14:07:47 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X19.D				
Injection Date:	28-Jun-2022 16:45:30	Instrument ID:	16334		
Lims ID:	410-88520-A-4	Lab Sample ID:	410-88520-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

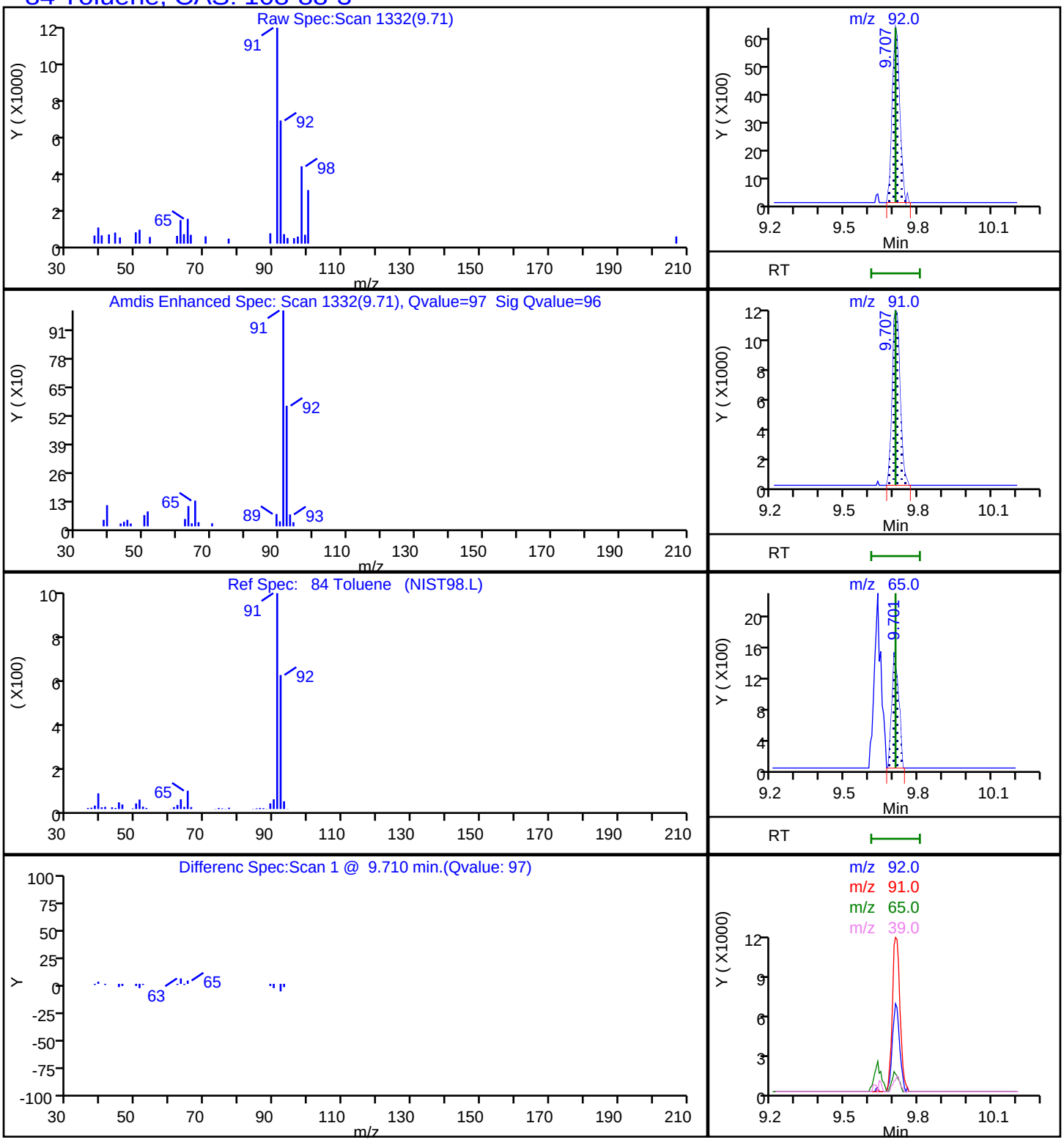
100 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X19.D				
Injection Date:	28-Jun-2022 16:45:30	Instrument ID:	16334		
Lims ID:	410-88520-A-4	Lab Sample ID:	410-88520-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

84 Toluene, CAS: 108-88-3

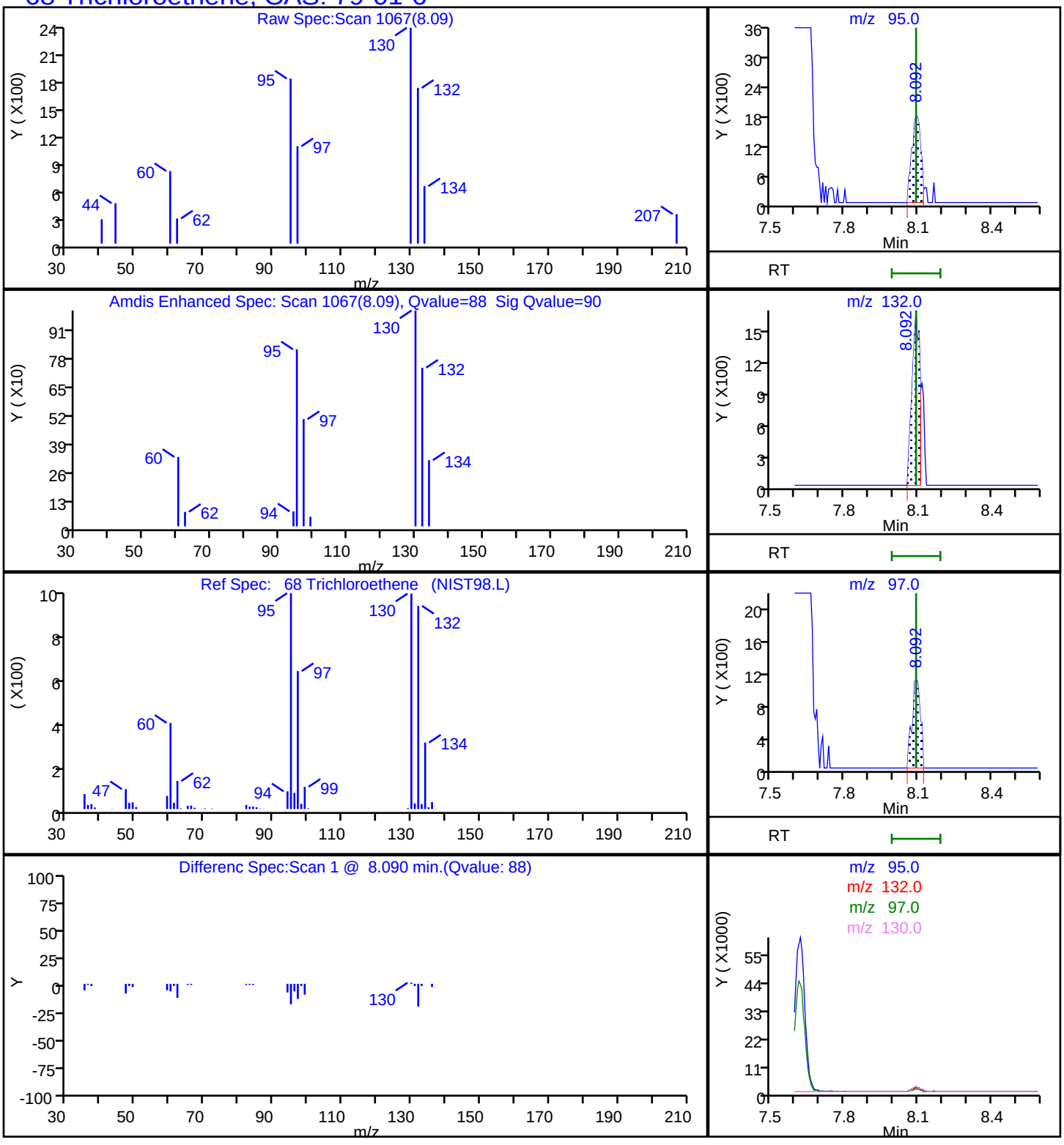


Report Date: 29-Jun-2022 14:07:47 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X19.D				
Injection Date:	28-Jun-2022 16:45:30	Instrument ID:	16334		
Lims ID:	410-88520-A-4	Lab Sample ID:	410-88520-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



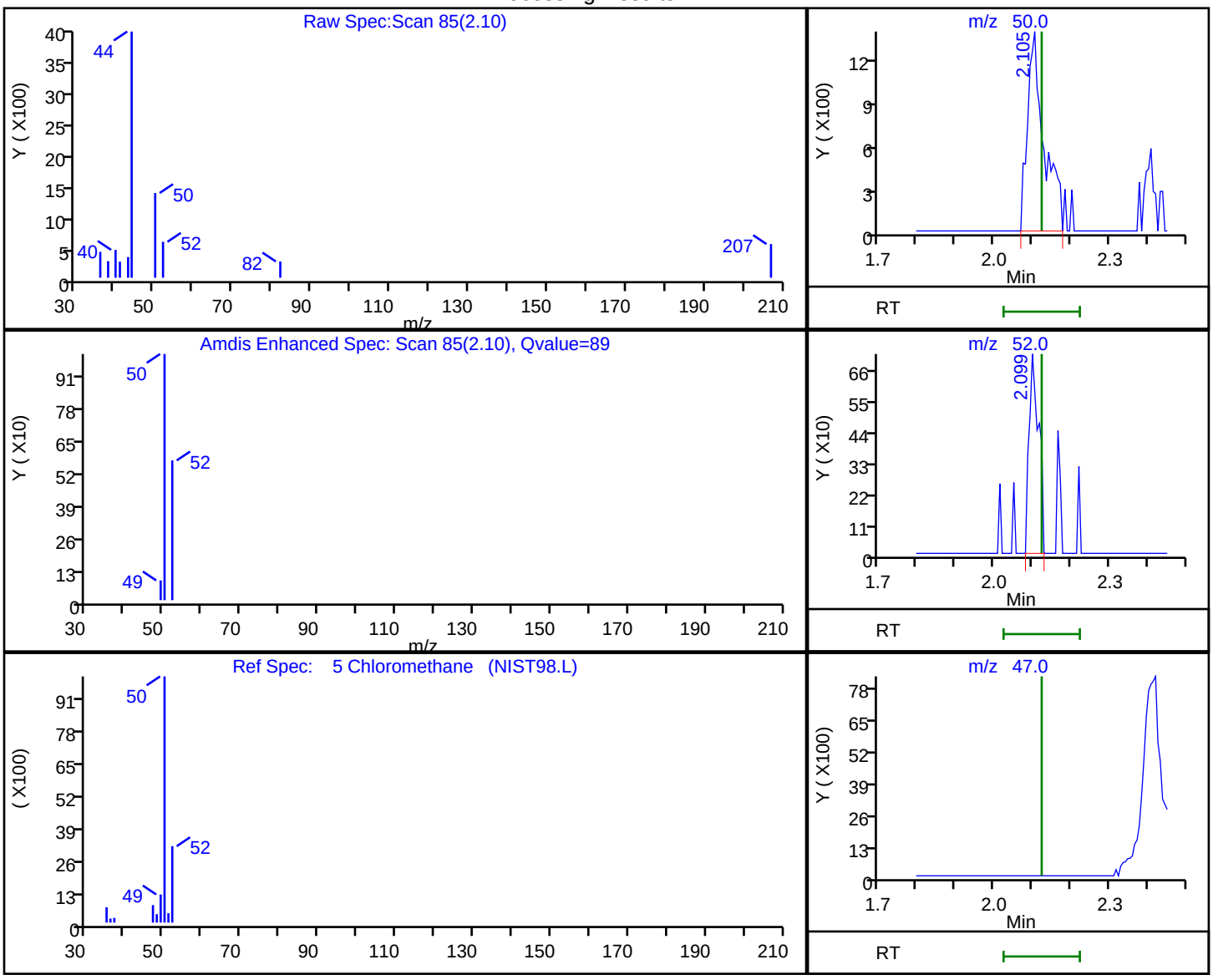
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X19.D				
Injection Date:	28-Jun-2022 16:45:30	Instrument ID:	16334		
Lims ID:	410-88520-A-4	Lab Sample ID:	410-88520-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

5 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
2.10	50.00	4142	0.076212
2.10	52.00	1263	
2.12	47.00	0	

Reviewer: kaewrungrueangp, 29-Jun-2022 14:07:23

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.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-13-0/1-0 Lab Sample ID: 410-88520-5

Matrix: Water Lab File ID: GU28X20.D

Analysis Method: 8260D Date Collected: 06/21/2022 09:40

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 17:07

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 270125 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.0	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.14	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.76		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.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-13-0/1-0 Lab Sample ID: 410-88520-5

Matrix: Water Lab File ID: GU28X20.D

Analysis Method: 8260D Date Collected: 06/21/2022 09:40

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 17:07

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 270125 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)	112		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\16334\20220628-60580.b\GU28X20.D
Lims ID: 410-88520-A-5
Client ID: HD-COD-SW-13-0/1-0
Sample Type: Client
Inject. Date: 28-Jun-2022 17:07:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060580-021
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Jun-2022 14:09:13 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:09:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.123				ND	U
8 Vinyl chloride	62		2.233				ND	7
9 Bromomethane	94		2.562				ND	
10 Chloroethane	64		2.641				ND	
19 1,1-Dichloroethene	96		3.471				ND	7
21 Acetone	43	3.531	3.532	-0.001	80	14076	2.01	
25 Carbon disulfide	76	3.763	3.763	0.000	98	8470	0.0821	M
29 Methylene Chloride	84		4.123				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.196	4.190	0.006	69	152312	50.0	
33 Methyl tert-butyl ether	73		4.525				ND	
34 trans-1,2-Dichloroethene	96		4.525				ND	
37 1,1-Dichloroethane	63		5.190				ND	
41 2-Butanone (MEK)	43		6.001				ND	
42 cis-1,2-Dichloroethene	96	6.025	6.031	-0.006	76	7118	0.1441	a
49 Chlorobromomethane	128		6.360				ND	
51 Chloroform	83	6.519	6.513	0.006	91	3840	0.0494	
$ 52 Dibromofluoromethane (Surr)	113	6.726	6.726	0.000	94	514629	10.9	
53 1,1,1-Trichloroethane	97		6.738				ND	
56 Carbon tetrachloride	117		6.939				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.177	0.000	30	111825	11.2	
60 Benzene	78		7.208				ND	
61 1,2-Dichloroethane	62		7.281				ND	
* 64 Fluorobenzene (IS)	96	7.616	7.616	0.000	99	1966328	10.0	
68 Trichloroethene	95	8.085	8.092	-0.007	95	7346	0.1499	M
70 1,2-Dichloropropane	63		8.427				ND	
76 Dichlorobromomethane	83		8.774				ND	
81 cis-1,3-Dichloropropene	75		9.323				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.500				ND	
$ 83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	1988549	10.0	
84 Toluene	92	9.707	9.707	0.000	94	6444	0.0523	
96 trans-1,3-Dichloropropene	75		9.969				ND	
99 1,1,2-Trichloroethane	97		10.177				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
100 Tetrachloroethene	166	10.262	10.262	0.000	97	43579	0.7595	
102 2-Hexanone	43		10.396				ND	7
104 Chlorodibromomethane	129		10.555				ND	
105 Ethylene Dibromide	107		10.664				ND	
* 106 Chlorobenzene-d5 (IS)	117	11.097	11.097	0.000	84	1547892	10.0	
108 Chlorobenzene	112		11.122				ND	
110 1,1,1,2-Tetrachloroethane	131		11.207				ND	
111 Ethylbenzene	91		11.213				ND	7
S 109 Xylenes, Total	106		11.245				ND	7
112 m-Xylene & p-Xylene	106		11.323				ND	7
113 o-Xylene	106		11.652				ND	7
114 Styrene	104		11.670				ND	
115 Bromoform	173		11.829				ND	
$ 119 4-Bromofluorobenzene (Surr)	95	12.097	12.097	0.000	92	698043	9.33	
120 1,1,2,2-Tetrachloroethane	83		12.201				ND	
* 134 1,4-Dichlorobenzene-d4	152	12.975	12.975	0.000	94	864087	10.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

Reagents:

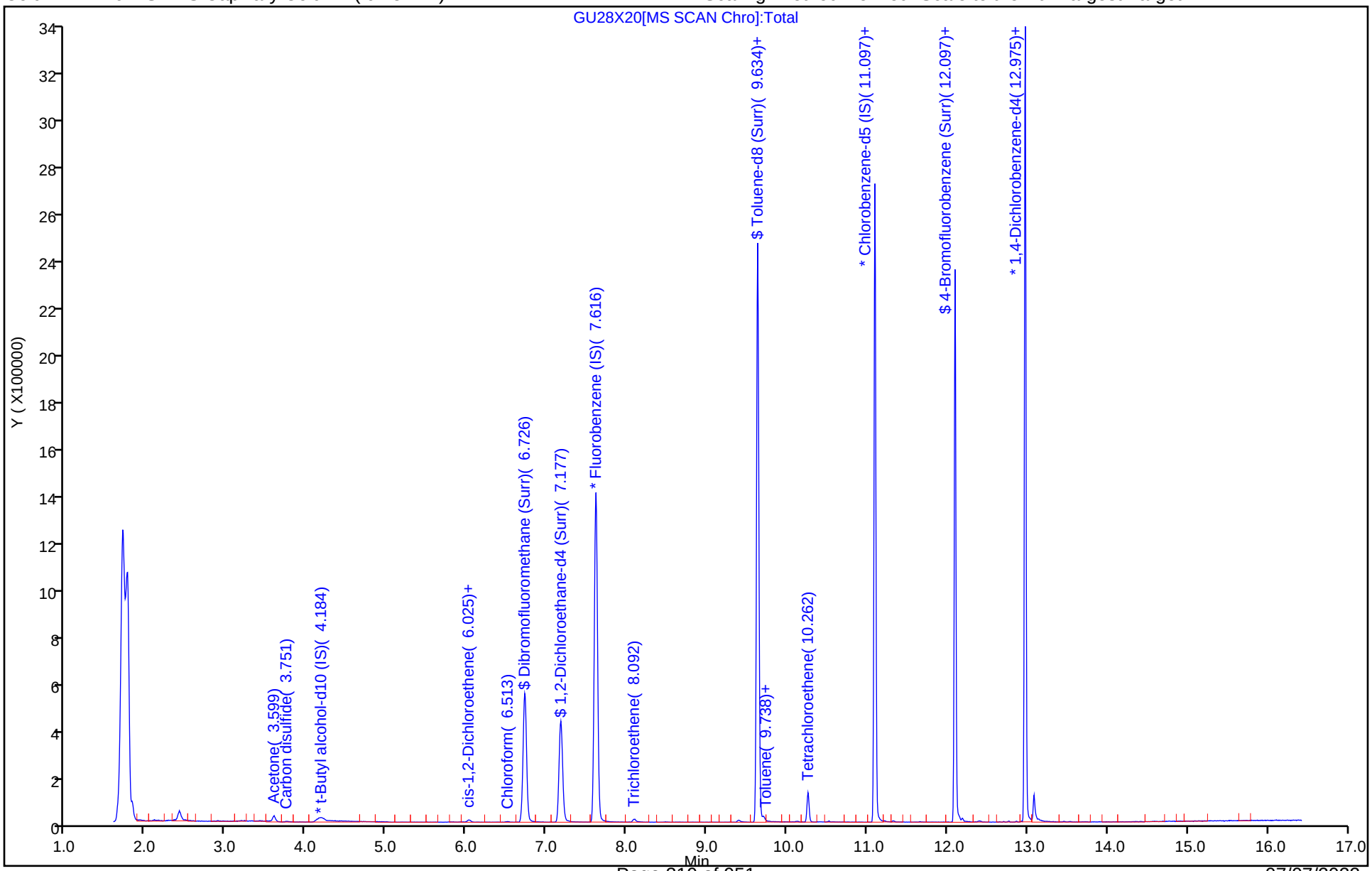
MSV_29_826ISS_00034 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 29-Jun-2022 14:09:13 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X20.D				
Injection Date:	28-Jun-2022 17:07:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-88520-A-5	Lab Sample ID:	410-88520-5	Worklist Smp#:	21
Client ID:	HD-COD-SW-13-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X20.D				
Lims ID:	410-88520-A-5				
Client ID:	HD-COD-SW-13-0/1-0				
Sample Type:	Client				
Inject. Date:	28-Jun-2022 17:07:30	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0060580-021				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	29-Jun-2022 14:09:13	Calib Date:	10-Jan-2022 23:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1674				

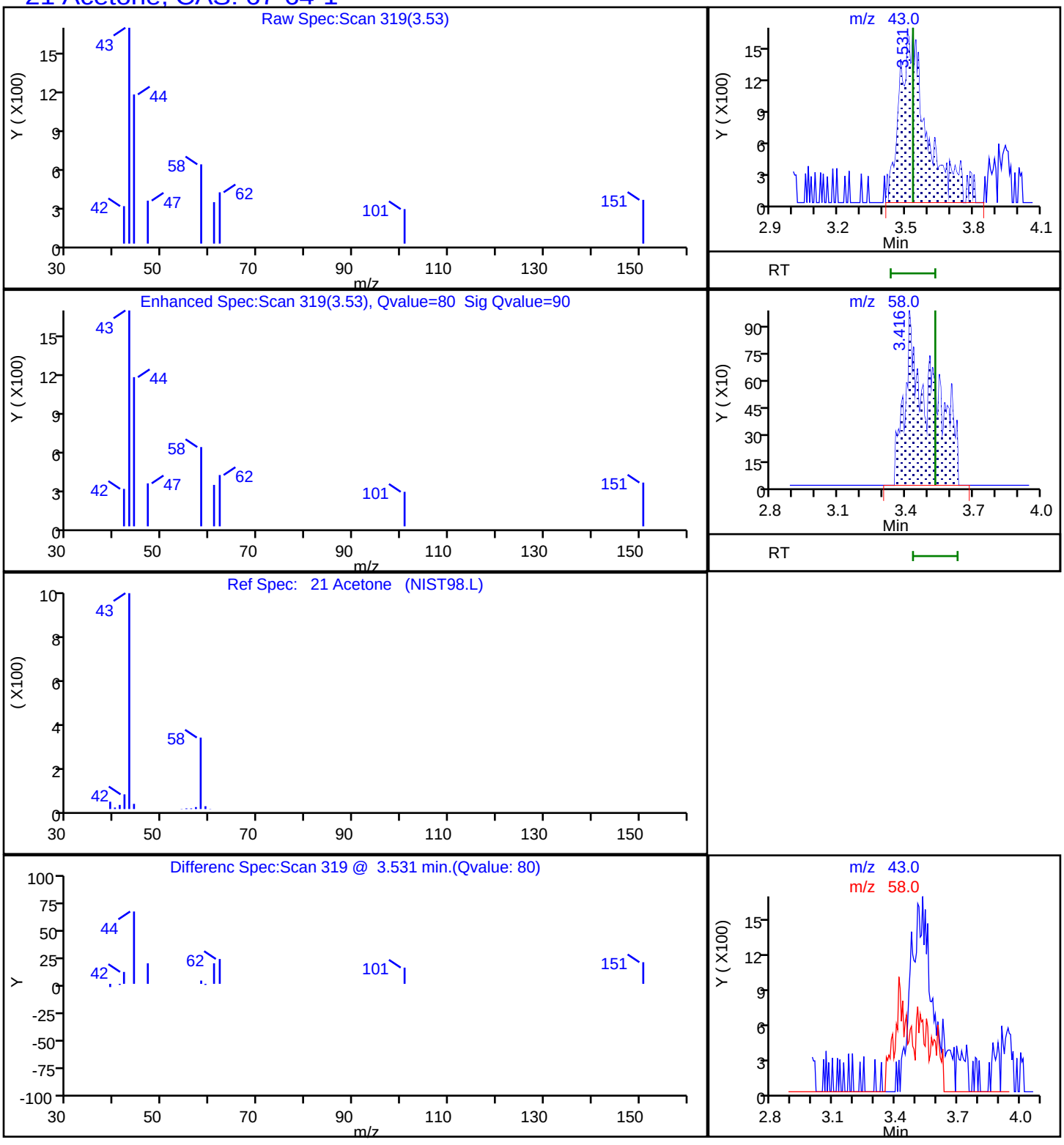
First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:09:13

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.9	109.05
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	11.2	112.11
$ 83 Toluene-d8 (Surr)	10.0	10.0	100.33
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.33	93.34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X20.D				
Injection Date:	28-Jun-2022 17:07:30	Instrument ID:	16334		
Lims ID:	410-88520-A-5	Lab Sample ID:	410-88520-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

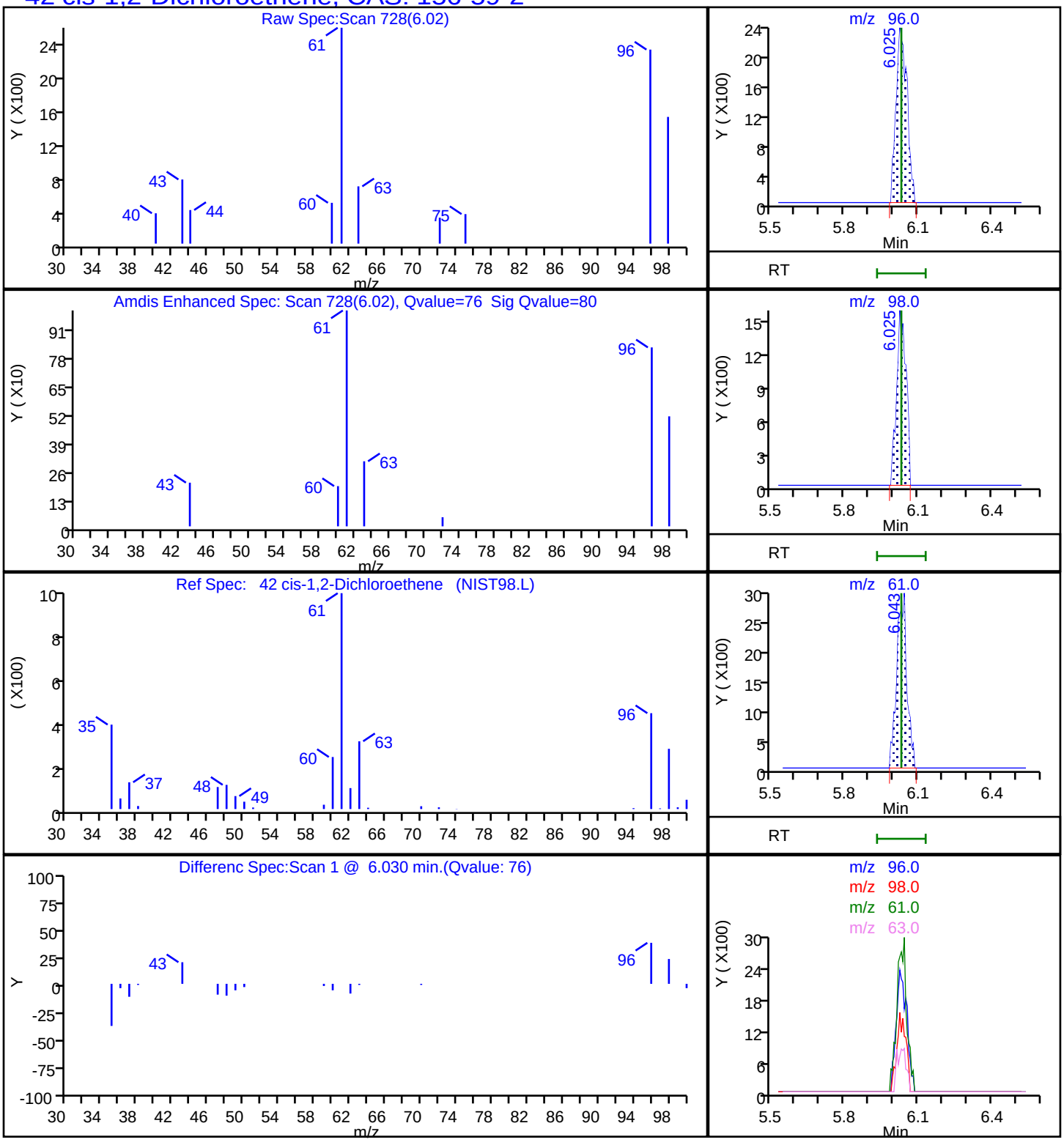
21 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X20.D				
Injection Date:	28-Jun-2022 17:07:30	Instrument ID:	16334		
Lims ID:	410-88520-A-5	Lab Sample ID:	410-88520-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

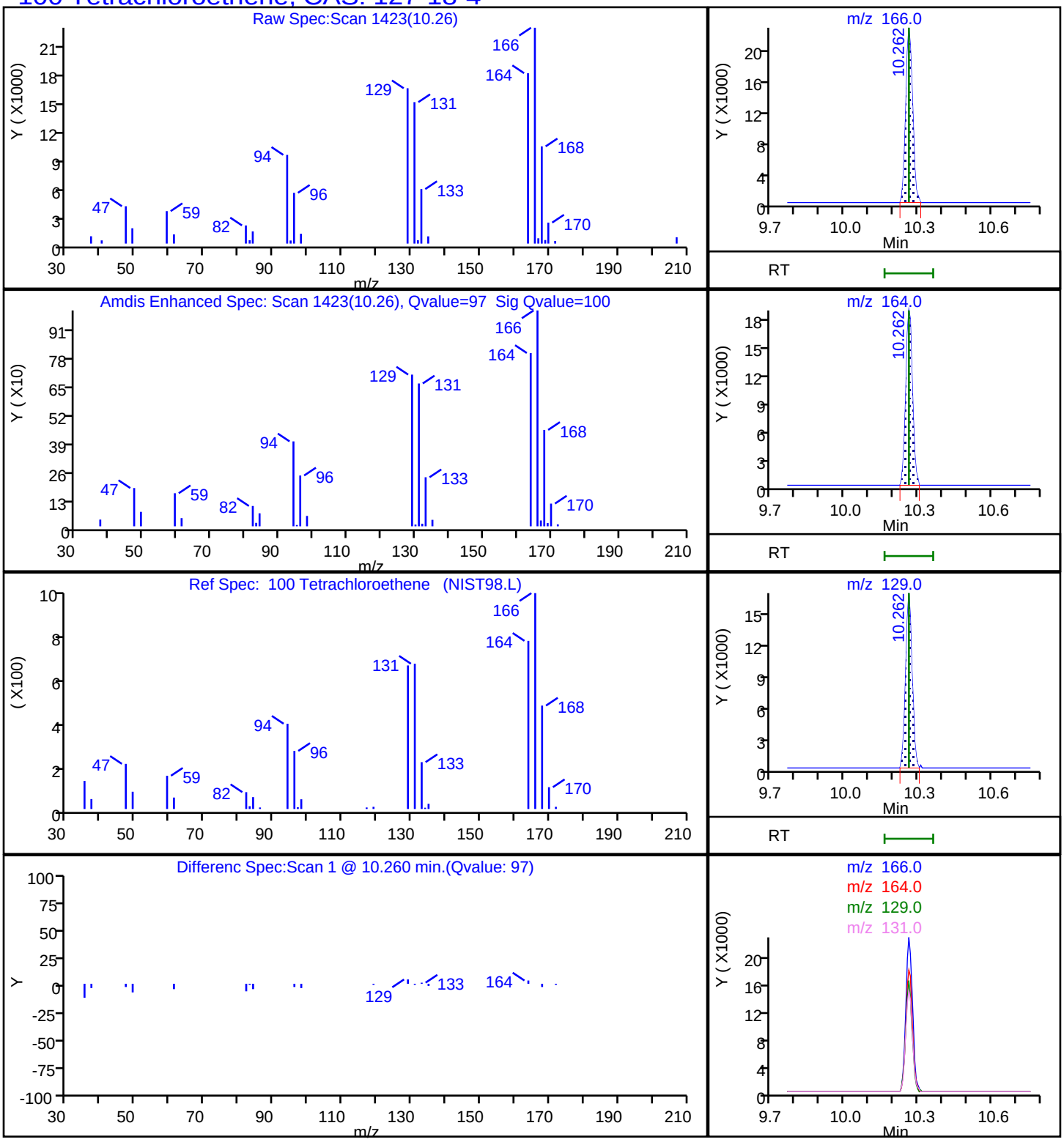
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X20.D				
Injection Date:	28-Jun-2022 17:07:30	Instrument ID:	16334		
Lims ID:	410-88520-A-5	Lab Sample ID:	410-88520-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

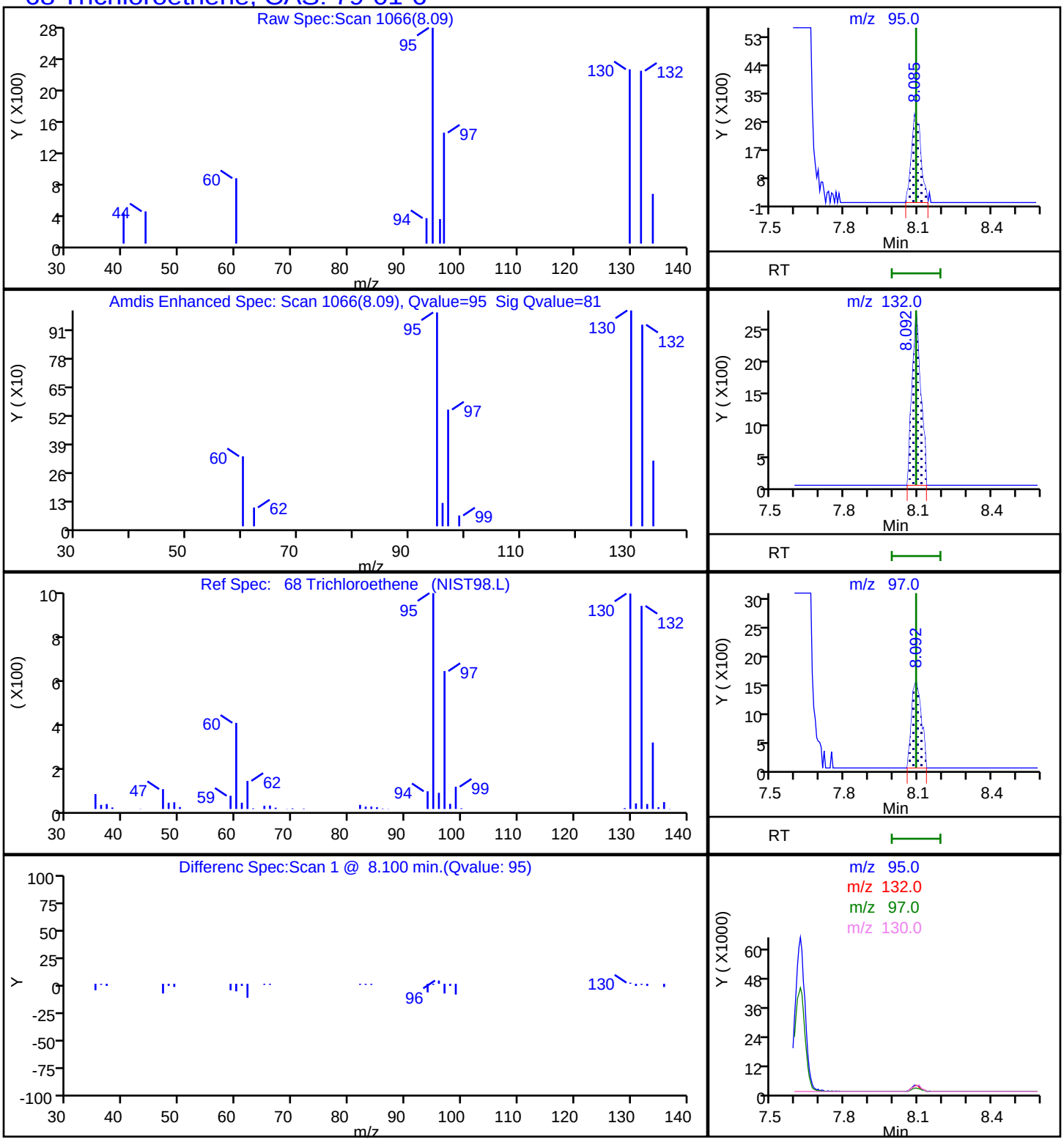
100 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X20.D				
Injection Date:	28-Jun-2022 17:07:30	Instrument ID:	16334		
Lims ID:	410-88520-A-5	Lab Sample ID:	410-88520-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

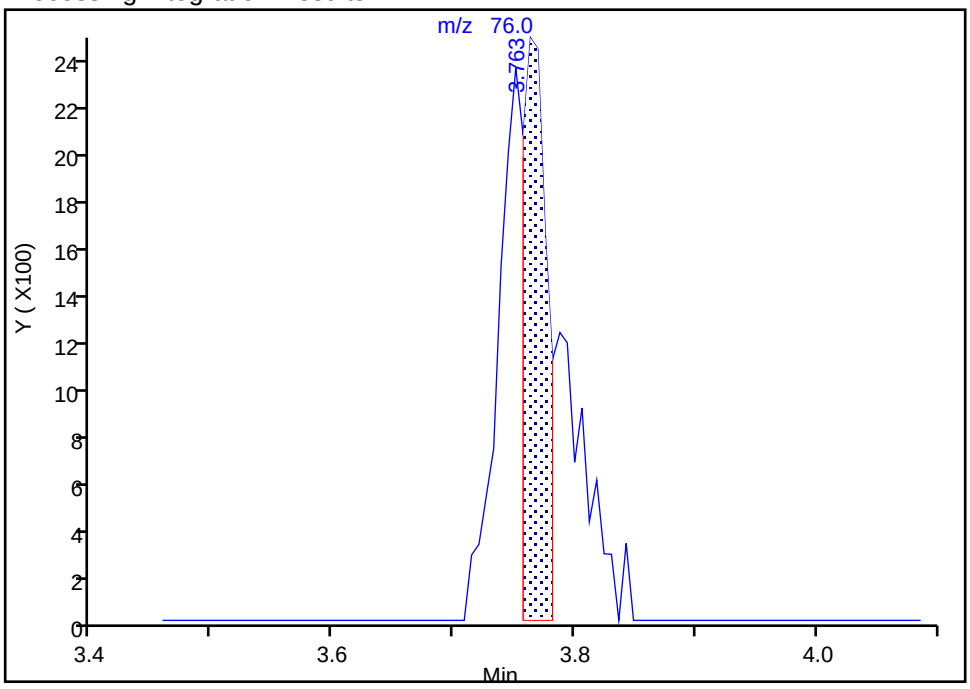
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X20.D				
Injection Date:	28-Jun-2022 17:07:30	Instrument ID:	16334		
Lims ID:	410-88520-A-5	Lab Sample ID:	410-88520-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

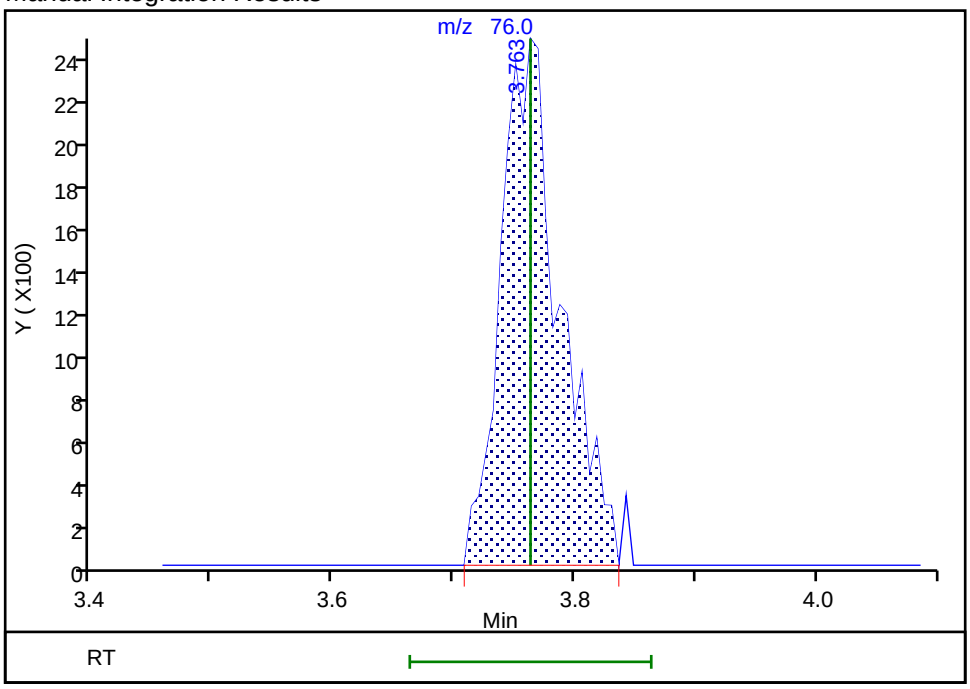
Processing Integration Results

RT: 3.76
Area: 3583
Amount: 0.034745
Amount Units: ug/l



Manual Integration Results

RT: 3.76
Area: 8470
Amount: 0.082135
Amount Units: ug/l



Reviewer: kaewrungrueangp, 29-Jun-2022 14:08:09

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

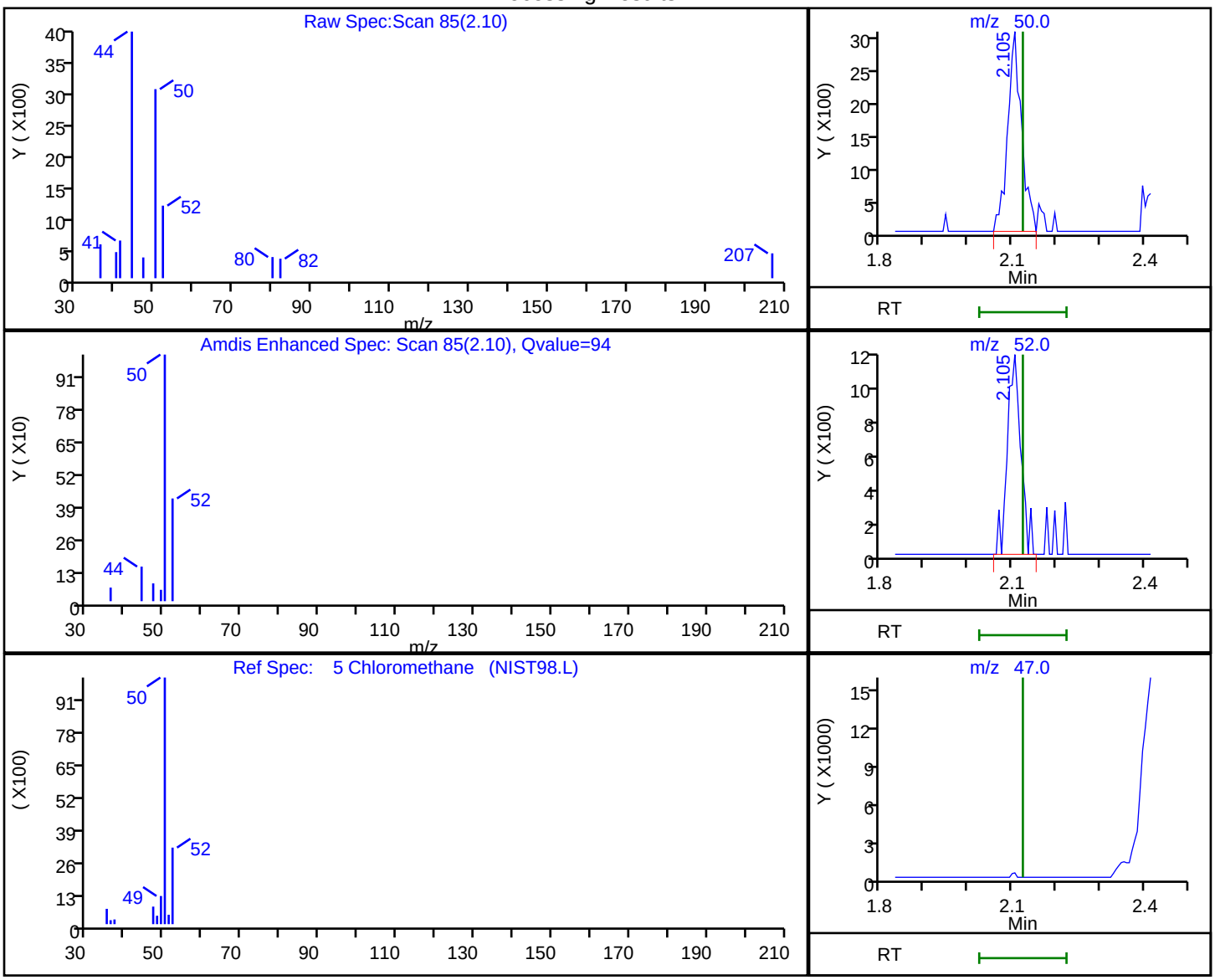
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X20.D				
Injection Date:	28-Jun-2022 17:07:30	Instrument ID:	16334		
Lims ID:	410-88520-A-5	Lab Sample ID:	410-88520-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

5 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
2.10	50.00	6707	0.123053
2.10	52.00	2515	
2.12	47.00	0	

Reviewer: kaewrungrueangp, 29-Jun-2022 14:07:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

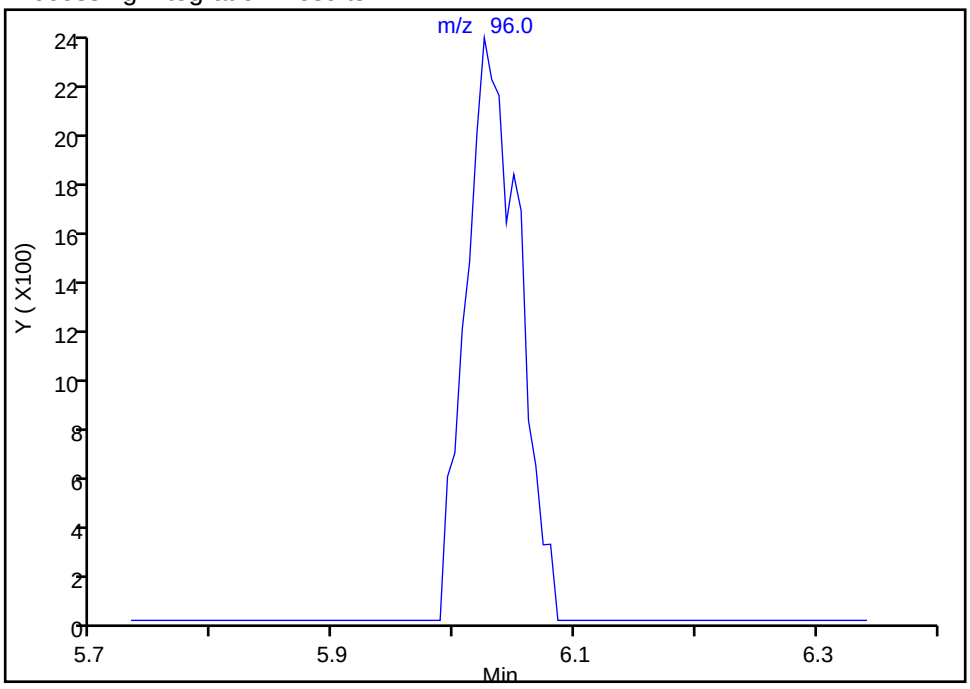
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X20.D				
Injection Date:	28-Jun-2022 17:07:30	Instrument ID:	16334		
Lims ID:	410-88520-A-5	Lab Sample ID:	410-88520-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

Signal: 1

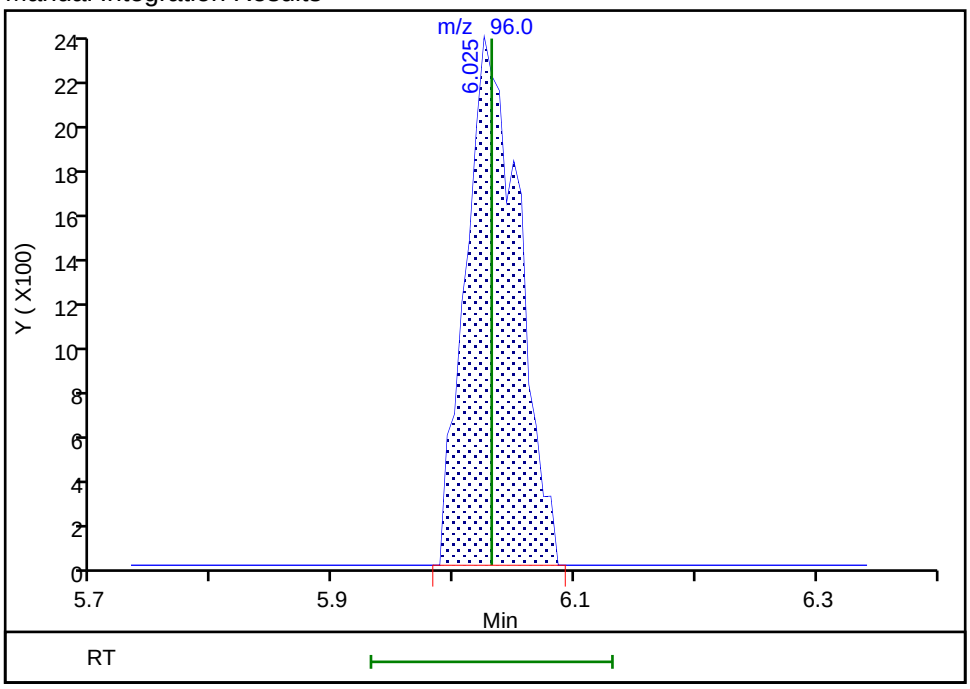
Not Detected
Expected RT: 6.03

Processing Integration Results



Manual Integration Results

RT: 6.02
Area: 7118
Amount: 0.144061
Amount Units: ug/l



Reviewer: kaewrungrueangp, 29-Jun-2022 14:08:45
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

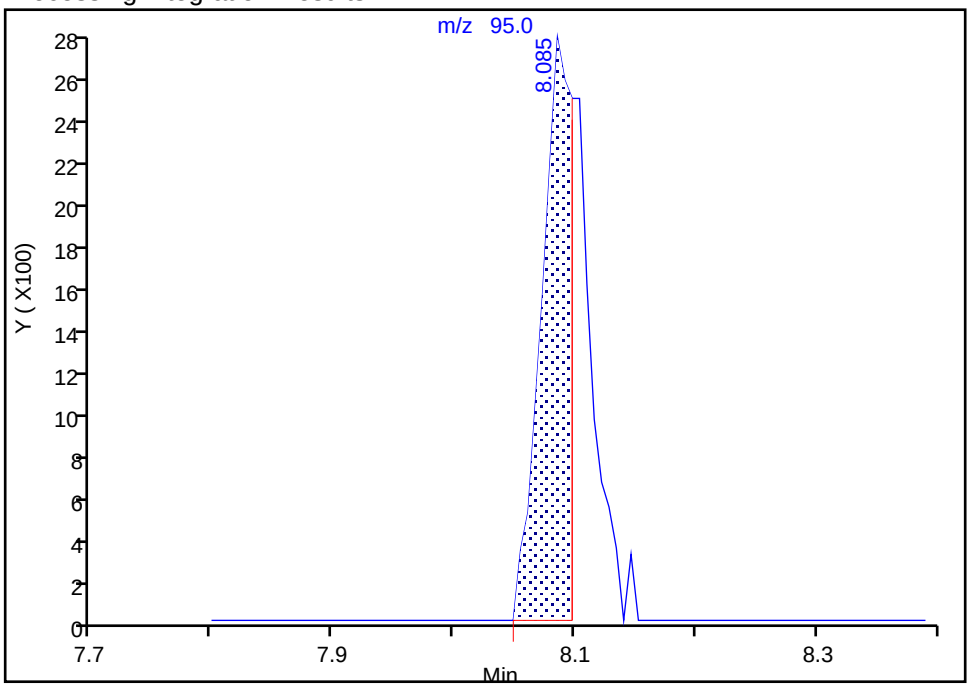
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X20.D				
Injection Date:	28-Jun-2022 17:07:30	Instrument ID:	16334		
Lims ID:	410-88520-A-5	Lab Sample ID:	410-88520-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6

Signal: 1

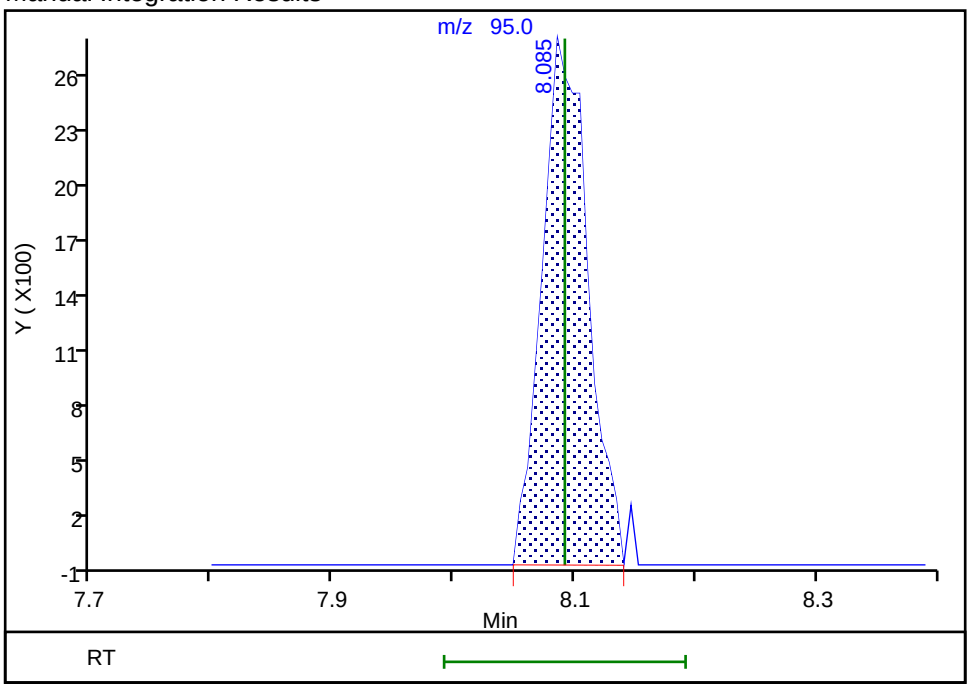
Processing Integration Results

RT: 8.09
Area: 4931
Amount: 0.100633
Amount Units: ug/l



Manual Integration Results

RT: 8.09
Area: 7346
Amount: 0.149919
Amount Units: ug/l



Reviewer: kaewrungrueangp, 29-Jun-2022 14:09:02

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.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 Lab Sample ID: 410-88520-6

Matrix: Water Lab File ID: GU28X21.D

Analysis Method: 8260D Date Collected: 06/21/2022 11:55

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 17:29

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.: 270125 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	0.31	J	0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	0.12	J	0.50	0.10
75-35-4	1,1-Dichloroethene	0.18	J	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND	FH	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	0.34	J	0.50	0.090
74-87-3	Chloromethane	ND	FH	0.50	0.10
156-59-2	cis-1,2-Dichloroethene	1.3		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	5.7		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.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 Lab Sample ID: 410-88520-6

Matrix: Water Lab File ID: GU28X21.D

Analysis Method: 8260D Date Collected: 06/21/2022 11:55

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 17:29

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.: 270125 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	1.6		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		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)	98		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X21.D
Lims ID: 410-88520-A-6
Client ID: HD-COD-SW-15-0/1-0
Sample Type: Client
Inject. Date: 28-Jun-2022 17:29:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060580-022
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Jun-2022 14:10:18 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:10:18

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	1 Chlorotrifluoroethene	116		1.886				ND	
	2 Dichlorodifluoromethane	85		1.928				ND	
	3 Chlorodifluoromethane	51		1.940				ND	7
	4 Dimethyl ether	45		2.002				ND	
	5 Chloromethane	50		2.123				ND	U
	8 Vinyl chloride	62		2.233				ND	
	7 Butadiene	39		2.239				ND	7
	6 2-Chloro-1,1,1-Trifluoroethane	118		2.312				ND	
	9 Bromomethane	94		2.562				ND	
	10 Chloroethane	64		2.641				ND	
	12 Dichlorofluoromethane	67		2.879				ND	
T	11 Vinyl bromide TIC	106		2.885				ND	
	13 Trichlorofluoromethane	101		2.928				ND	
	15 Ethyl ether	59		3.172				ND	
	14 Ethanol	45	3.160	3.190	-0.030	1	292	NC	
T	16 Ethanol TIC	45		3.190				ND	7
	17 1,2-Dichloro-1,1,2-trifluoroetha	67		3.263				ND	7
	18 Acrolein	56		3.349				ND	7
	19 1,1-Dichloroethene	96	3.464	3.471	-0.007	96	7503	0.1847	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.513				ND	
	21 Acetone	43		3.532				ND	U
	23 Iodomethane	142		3.666				ND	
	24 Ethyl bromide	108		3.690				ND	
	22 Isopropyl alcohol	45		3.745				ND	
	25 Carbon disulfide	76		3.763				ND	7
	26 Acetonitrile	41		3.916				ND	
	27 Methyl acetate	43		3.922				ND	
	28 3-Chloro-1-propene	41		3.940				ND	
	29 Methylene Chloride	84		4.123				ND	
*	30 t-Butyl alcohol-d10 (IS)	65	4.166	4.190	-0.024	69	168881	50.0	
	31 2-Methyl-2-propanol	59		4.324				ND	
	32 Acrylonitrile	53		4.476				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73	4.507	4.525	-0.018	1	3472	0.0312	
34 trans-1,2-Dichloroethene	96		4.525				ND	
35 Hexane	57		4.958				ND	
36 Vinyl acetate	43		5.165				ND	
37 1,1-Dichloroethane	63	5.190	5.190	0.000	92	9495	0.1247	
38 Isopropyl ether	45		5.257				ND	
39 2-Chloro-1,3-butadiene	53		5.306				ND	
40 Tert-butyl ethyl ether	59		5.793				ND	7
41 2-Butanone (MEK)	43		6.001				ND	
42 cis-1,2-Dichloroethene	96	6.025	6.031	-0.006	79	65337	1.33	
43 2,2-Dichloropropane	77		6.037				ND	
44 Ethyl acetate	43		6.055				ND	7
45 Propionitrile	54		6.092				ND	
47 Methyl acrylate	55		6.141				ND	
S 46 1,2-Dichloroethene, Total	100				0		1.33	
48 Methacrylonitrile	67		6.299				ND	
49 Chlorobromomethane	128		6.360				ND	
50 Tetrahydrofuran	71		6.360				ND	
51 Chloroform	83	6.513	6.513	0.000	92	26178	0.3381	
$ 52 Dibromofluoromethane (Surr)	113	6.726	6.726	0.000	94	519113	11.1	
53 1,1,1-Trichloroethane	97	6.732	6.738	-0.006	43	20814	0.3145	
54 Cyclohexane	56		6.830				ND	
56 Carbon tetrachloride	117		6.939				ND	7
55 1-Chlorobutane	56		6.940				ND	
57 1,1-Dichloropropene	75		6.945				ND	
58 Isobutyl alcohol	41		7.141				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.177	0.000	30	112006	11.3	
60 Benzene	78		7.208				ND	
61 1,2-Dichloroethane	62		7.281				ND	
62 Isopropyl acetate	43		7.293				ND	
63 Tert-amyl methyl ether	73		7.403				ND	
* 64 Fluorobenzene (IS)	96	7.610	7.616	-0.006	99	1956707	10.0	
65 n-Heptane	43		7.628				ND	
66 t-Amyl alcohol	73		7.842				ND	
67 n-Butanol	56		8.025				ND	
68 Trichloroethene	95	8.086	8.092	-0.006	97	76606	1.57	
69 Methylcyclohexane	83		8.396				ND	
70 1,2-Dichloropropane	63		8.427				ND	
71 2-ethoxy-2-methyl butane	87		8.439				ND	
72 Methyl methacrylate	69		8.512				ND	
74 Dibromomethane	93		8.531				ND	
73 1,4-Dioxane	88		8.561				ND	
75 n-Propyl acetate	61		8.598				ND	
76 Dichlorobromomethane	83		8.774				ND	
77 2-Nitropropane	41		9.049				ND	
79 2-Chloroethyl vinyl ether	63		9.146				ND	
80 1-Bromo-2-chloroethane	63		9.158				ND	
78 Chloroacetonitrile	75		9.189				ND	
81 cis-1,3-Dichloropropene	75		9.323				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.500				ND	
$ 83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	1986207	9.81	
84 Toluene	92	9.713	9.707	0.006	96	4920	0.0391	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
96 trans-1,3-Dichloropropene	75		9.969				ND	
T 90 Ethylene oxide TIC	44	9.872	9.976	-0.104	8	758	0.003874	
T 194 Decamethylcyclopentasiloxane TIC	73	9.652	10.000	-0.348	1	103	0.000526	
T 195 Nitrobenzene TIC	77	10.012	10.000	0.012	1	167	0.000853	
T 92 2-Bromo-3-chloropropene TIC	75	9.628	10.000	-0.372	1	353	0.001804	
T 196 Octamethylcyclotetrasiloxane TIC	281	12.146	10.000	2.146	74	5828	0.0298	
T 88 Chloroacetaldehyde TIC	50	9.689	10.000	-0.311	1	104	0.000532	
T 89 2,3-Dibromo-1-propanol TIC	57		10.000				ND	
T 86 2-Chloroethanol TIC	44	9.872	10.000	-0.128	1	758	0.003874	
T 87 Epibromohydrin TIC	57	9.634	10.000	-0.366	3	1213	0.006199	
T 91 3-Chloro-1,2-propanediol TIC	44		10.000				ND	
T 85 Monochloroacetic acid TIC	50	9.689	10.018	-0.329	1	104	0.000532	
98 Ethyl methacrylate	69		10.036				ND	
S 97 1,3-Dichloropropene, Total	100		10.060				ND	7
T 95 2-Bromoethanol TIC	45	9.658	10.085	-0.427	1	94	0.000480	
T 93 Epichlorohydrin TIC	57		10.085				ND	
99 1,1,2-Trichloroethane	97		10.177				ND	7
T 94 2,3-Dibromopropene TIC	119	10.256	10.177	0.079	1	2553	0.0130	
100 Tetrachloroethene	166	10.262	10.262	0.000	97	331753	5.66	
101 1,3-Dichloropropane	76		10.341				ND	
102 2-Hexanone	43		10.396				ND	
103 n-Butyl acetate	43		10.530				ND	
104 Chlorodibromomethane	129		10.555				ND	
105 Ethylene Dibromide	107		10.664				ND	
* 106 Chlorobenzene-d5 (IS)	117	11.097	11.097	0.000	84	1581324	10.0	
107 1-Chlorohexane	91		11.109				ND	7
108 Chlorobenzene	112		11.122				ND	
110 1,1,1,2-Tetrachloroethane	131		11.207				ND	
111 Ethylbenzene	91		11.213				ND	7
S 109 Xylenes, Total	106		11.245				ND	7
112 m-Xylene & p-Xylene	106		11.323				ND	7
113 o-Xylene	106		11.652				ND	7
114 Styrene	104		11.670				ND	
115 Bromoform	173		11.829				ND	
116 Isopropylbenzene	105		11.957				ND	
117 cis-1,4-Dichloro-2-butene	88		12.024				ND	
118 Cyclohexanone	55		12.054				ND	U
$ 119 4-Bromofluorobenzene (Surr)	95	12.097	12.097	0.000	93	695963	9.11	
120 1,1,2,2-Tetrachloroethane	83		12.201				ND	
121 Bromobenzene	156		12.213				ND	
122 trans-1,4-Dichloro-2-butene	53		12.225				ND	
123 1,2,3-Trichloropropane	110		12.243				ND	
124 N-Propylbenzene	91		12.280				ND	
125 2-Chlorotoluene	126		12.359				ND	
126 1,3,5-Trimethylbenzene	105		12.420				ND	7
127 4-Chlorotoluene	126		12.451				ND	
128 tert-Butylbenzene	134		12.658				ND	
129 Pentachloroethane	167		12.688				ND	
130 1,2,4-Trimethylbenzene	105		12.700				ND	7
131 sec-Butylbenzene	105		12.822				ND	
132 1,3-Dichlorobenzene	146		12.920				ND	
133 4-Isopropyltoluene	119		12.926				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 134 1,4-Dichlorobenzene-d4	152	12.975	12.975	0.000	94	864736	10.0	
135 1,4-Dichlorobenzene	146		12.993				ND	
136 1,2,3-Trimethylbenzene	120		13.005				ND	7
137 Benzyl chloride	126		13.072				ND	U
138 p-Diethylbenzene	119		13.127				ND	
139 n-Butylbenzene	92		13.219				ND	
140 1,2-Dichlorobenzene	146		13.249				ND	
T 193 Hexachloroethane TIC	201		13.499				ND	
141 Hexachloroethane	201		13.499				ND	
142 1,2-Dibromo-3-Chloropropane	155		13.792				ND	
143 1,3,5-Trichlorobenzene	180		13.914				ND	
144 1,2,4-Trichlorobenzene	180		14.334				ND	
145 Hexachlorobutadiene	225		14.414				ND	
146 Naphthalene	128		14.511				ND	7
147 1,2,3-Trichlorobenzene	180		14.651				ND	
148 2-Methylnaphthalene	142		15.261				ND	
149 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
192 Vinyl acetate (TIC)	1		0.000				ND	
190 Acetonitrile TIC	1		0.000				ND	
162 Pentachloroethane TIC	1		0.000				ND	
161 1,1-Dichloroacetone	1		0.000				ND	
159 Propargyl alcohol TIC	1		0.000				ND	
158 1,3-Dichloro-2-propanol TIC	1		0.000				ND	
191 Isopropyl alcohol TIC	1		0.000				ND	
157 tert-Butyl Formate	1		0.000				ND	
155 Methylal	1		0.000				ND	
154 n-Decane	57		0.000				ND	
153 Propene oxide	1		0.000				ND	
152 1-Bromo-3-Chloropropane	1		0.000				ND	
151 1-Chloropropane	1		0.000				ND	
150 2-Bromo-1-chloropropane	1		0.000				ND	
156 Dodecane	57		0.000				ND	
160 Pentane	43		2.971				ND	

QC Flag Legend

Processing Flags

NC - Not Calibrated

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

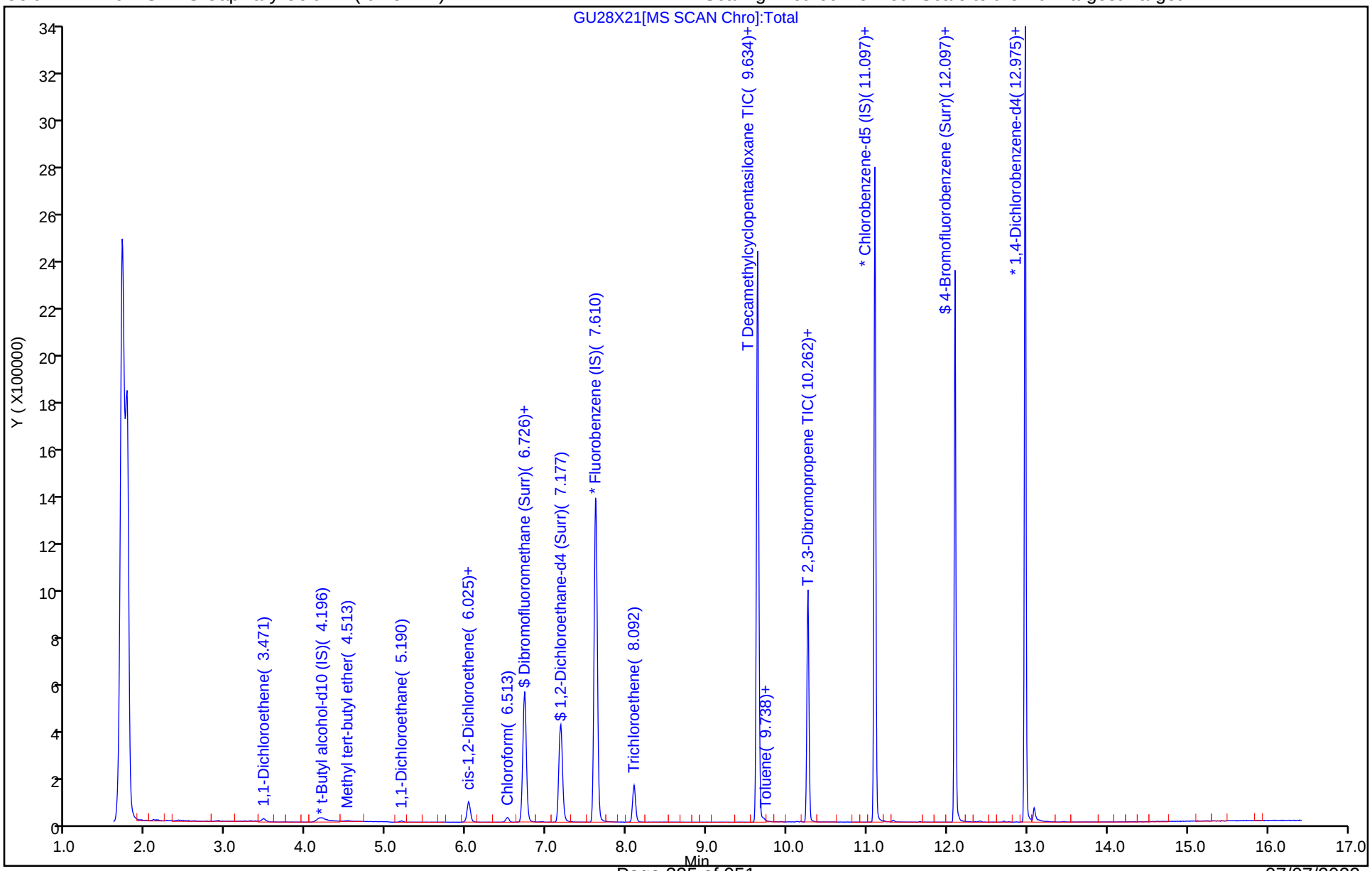
MSV_29_826ISS_00034 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 29-Jun-2022 14:10:19 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X21.D				
Injection Date:	28-Jun-2022 17:29:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-88520-A-6	Lab Sample ID:	410-88520-6	Worklist Smp#:	22
Client ID:	HD-COD-SW-15-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X21.D				
Lims ID:	410-88520-A-6				
Client ID:	HD-COD-SW-15-0/1-0				
Sample Type:	Client				
Inject. Date:	28-Jun-2022 17:29:30	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0060580-022				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	29-Jun-2022 14:10:18	Calib Date:	10-Jan-2022 23:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1674				

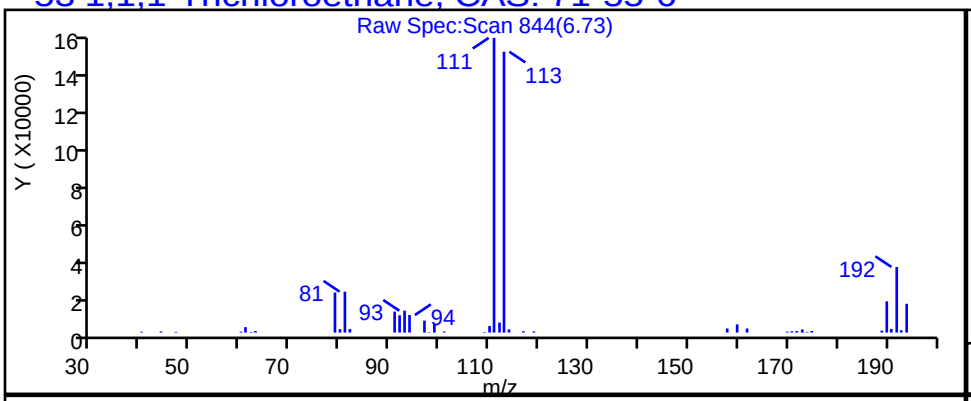
First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:10:18

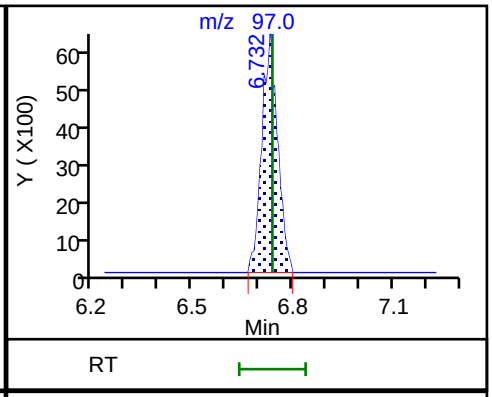
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	11.1	110.54
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	11.3	112.84
$ 83 Toluene-d8 (Surr)	10.0	9.81	98.09
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.11	91.09

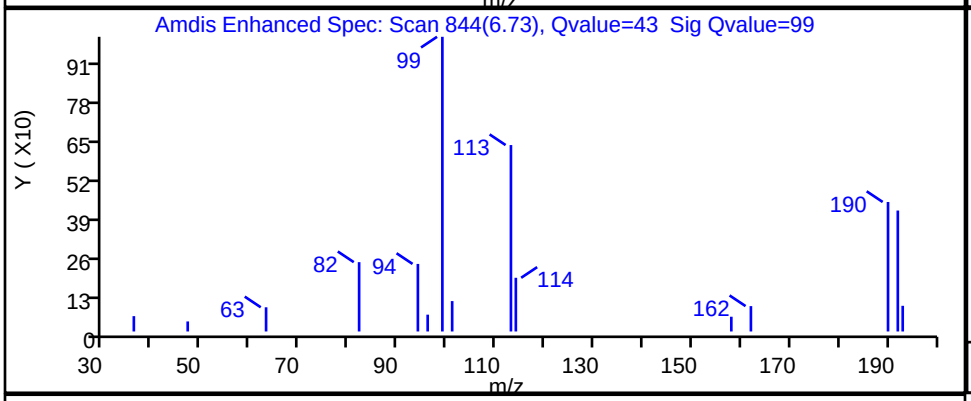
Eurofins Lancaster Laboratories Environment Testing, LLC

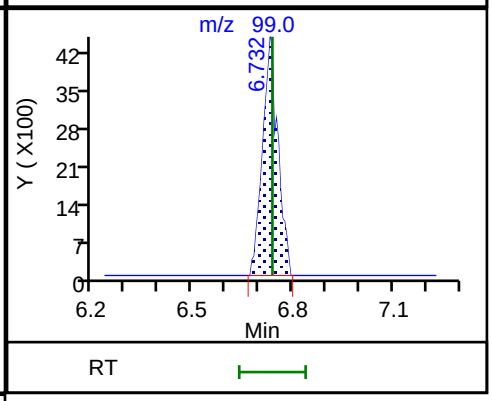
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X21.D				
Injection Date:	28-Jun-2022 17:29:30	Instrument ID:	16334		
Lims ID:	410-88520-A-6	Lab Sample ID:	410-88520-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

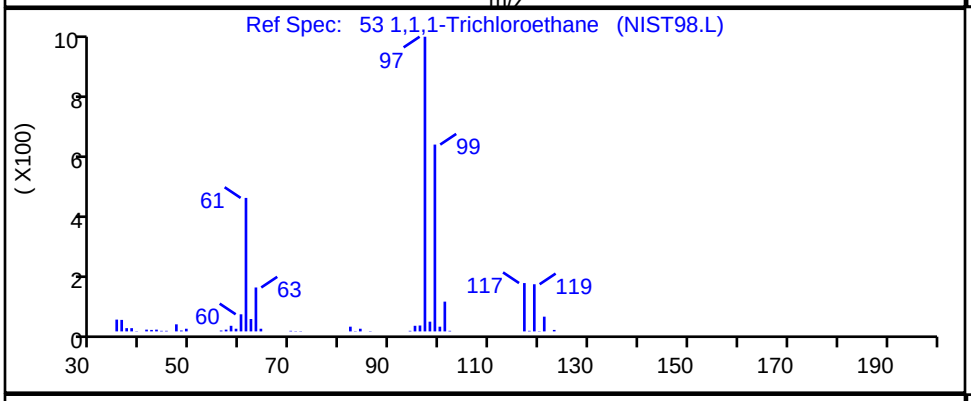
53 1,1,1-Trichloroethane, CAS: 71-55-6

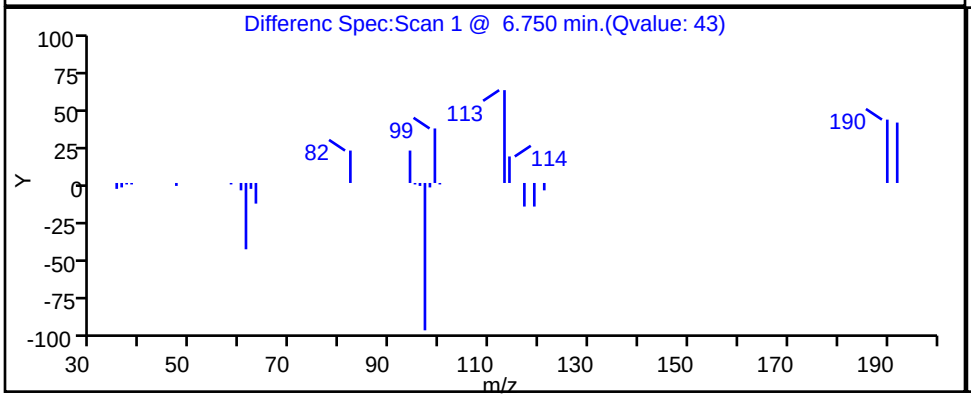


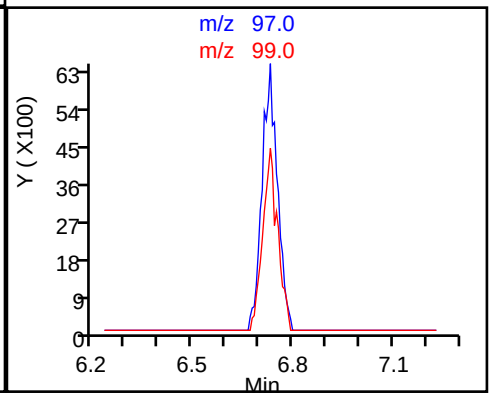








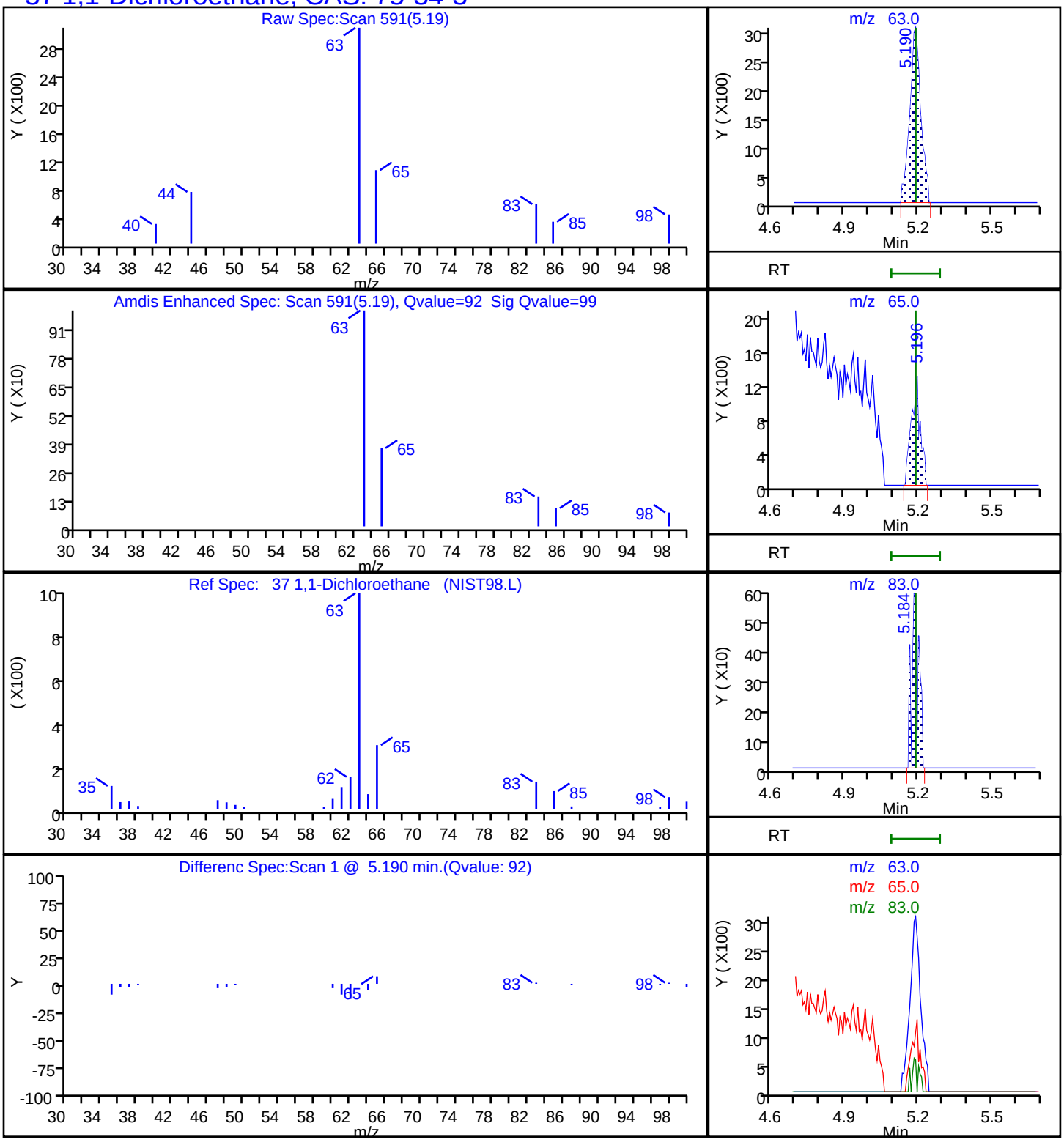




Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X21.D				
Injection Date:	28-Jun-2022 17:29:30	Instrument ID:	16334		
Lims ID:	410-88520-A-6	Lab Sample ID:	410-88520-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

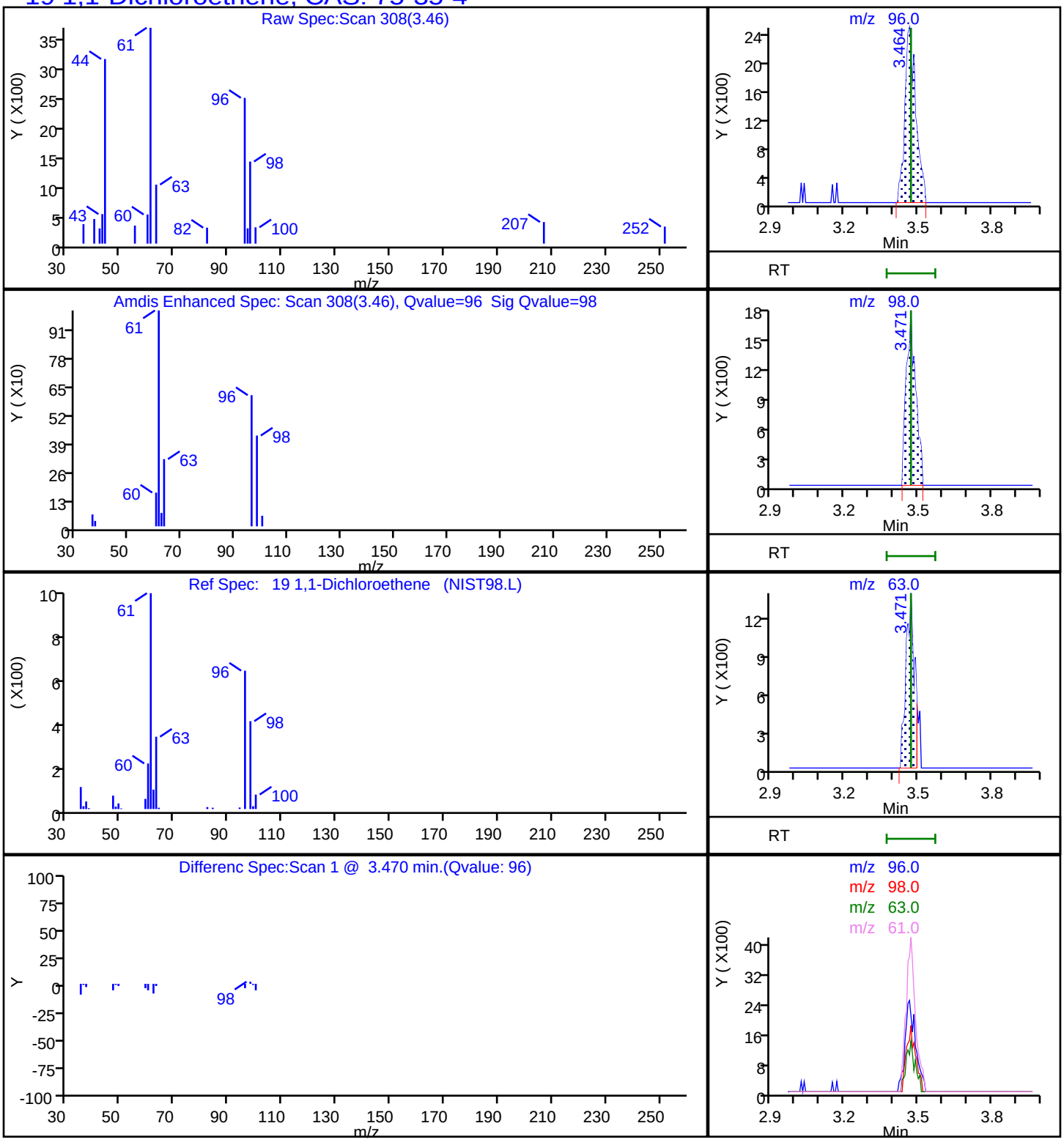
37 1,1-Dichloroethane, CAS: 75-34-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X21.D				
Injection Date:	28-Jun-2022 17:29:30	Instrument ID:	16334		
Lims ID:	410-88520-A-6	Lab Sample ID:	410-88520-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

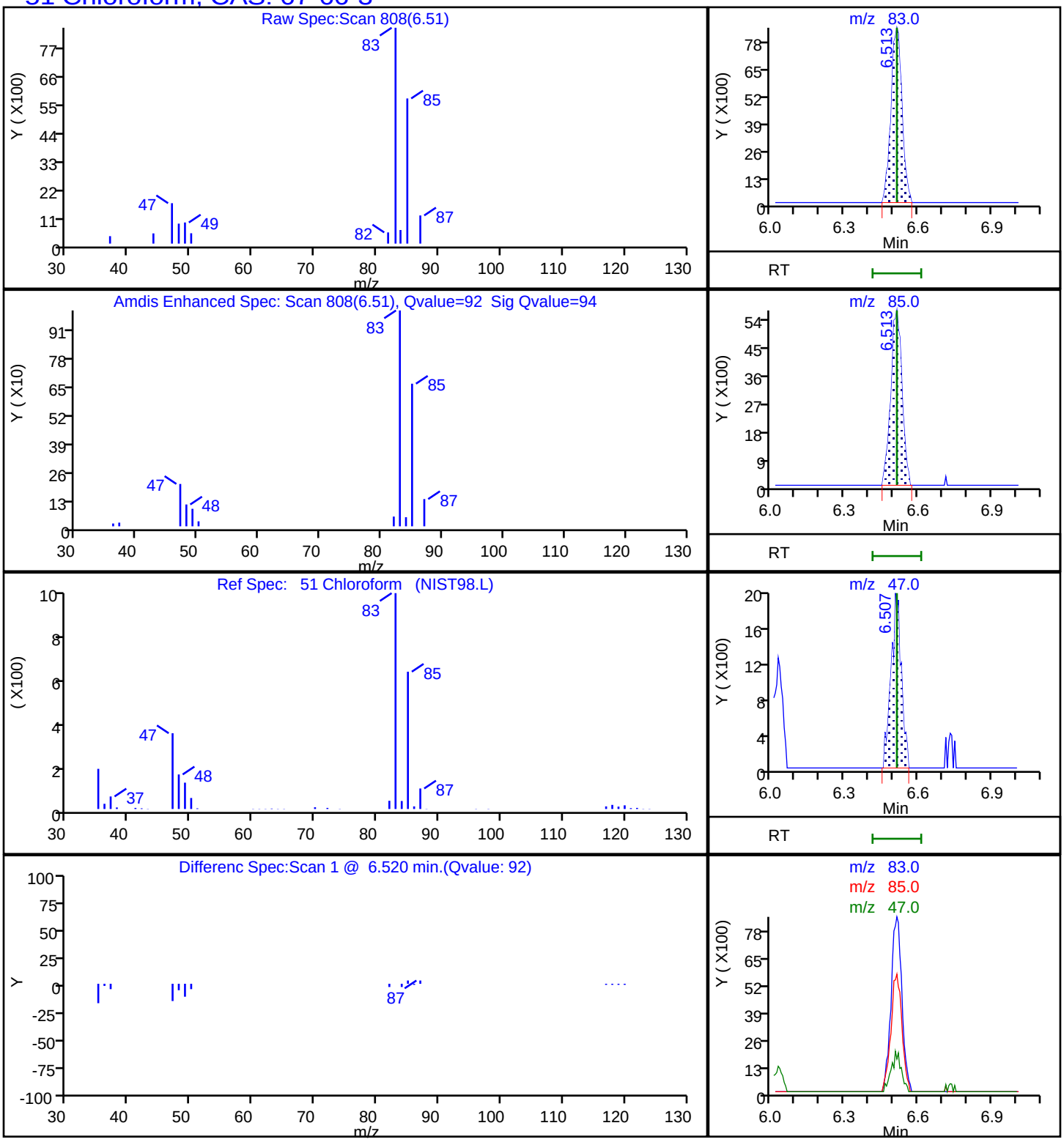
19 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X21.D				
Injection Date:	28-Jun-2022 17:29:30	Instrument ID:	16334		
Lims ID:	410-88520-A-6	Lab Sample ID:	410-88520-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

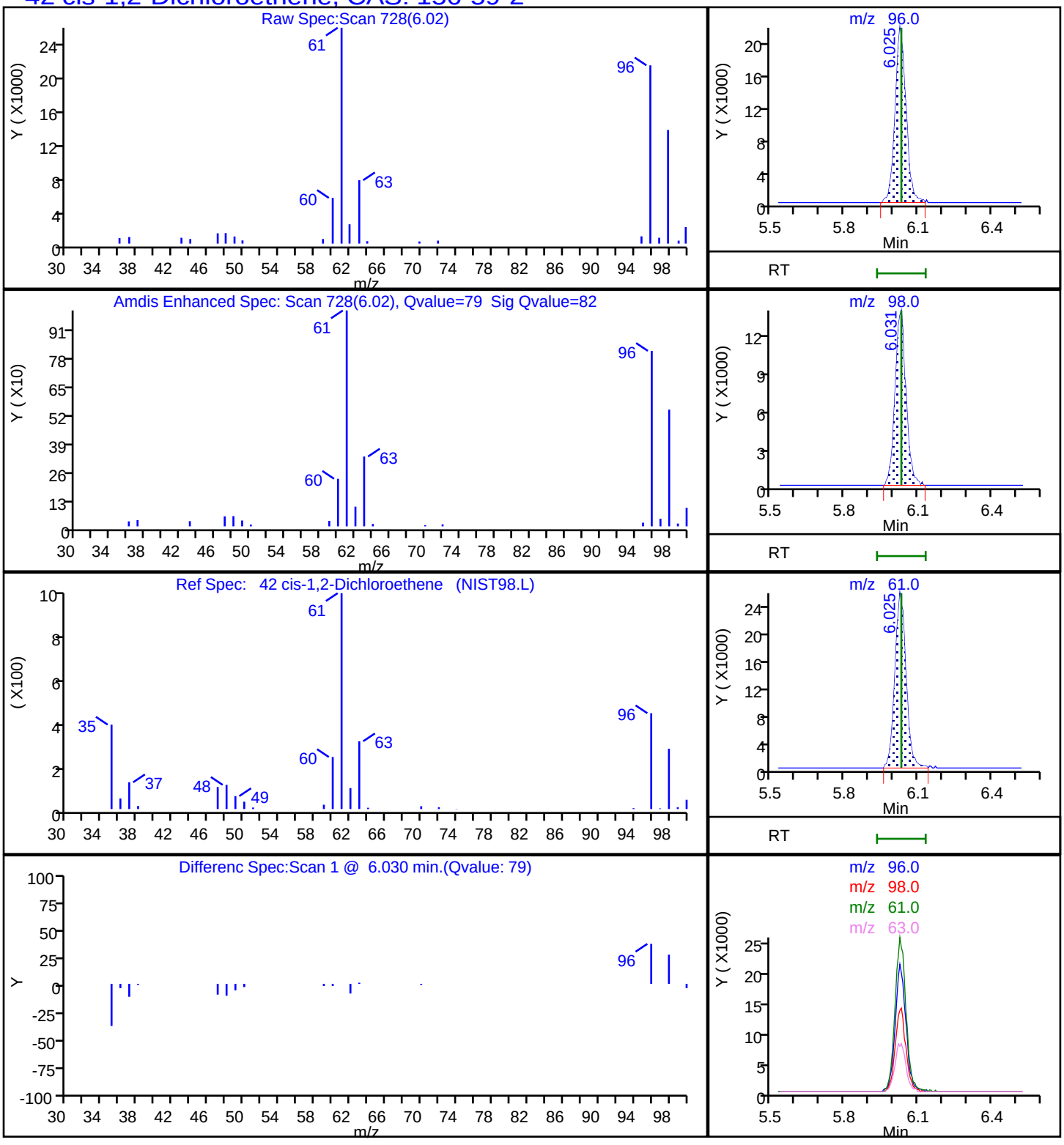
51 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X21.D				
Injection Date:	28-Jun-2022 17:29:30	Instrument ID:	16334		
Lims ID:	410-88520-A-6	Lab Sample ID:	410-88520-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

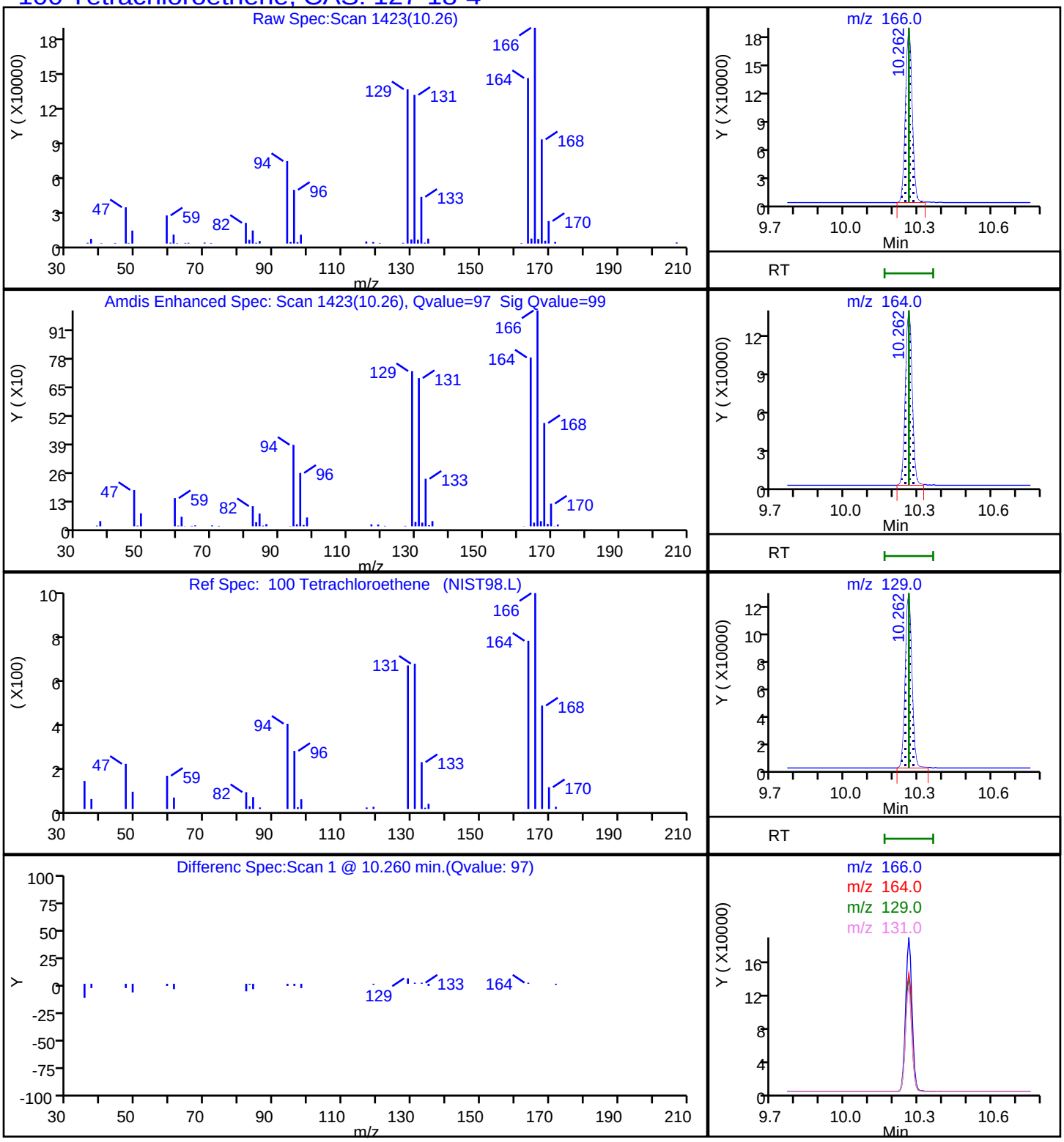
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X21.D				
Injection Date:	28-Jun-2022 17:29:30	Instrument ID:	16334		
Lims ID:	410-88520-A-6	Lab Sample ID:	410-88520-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

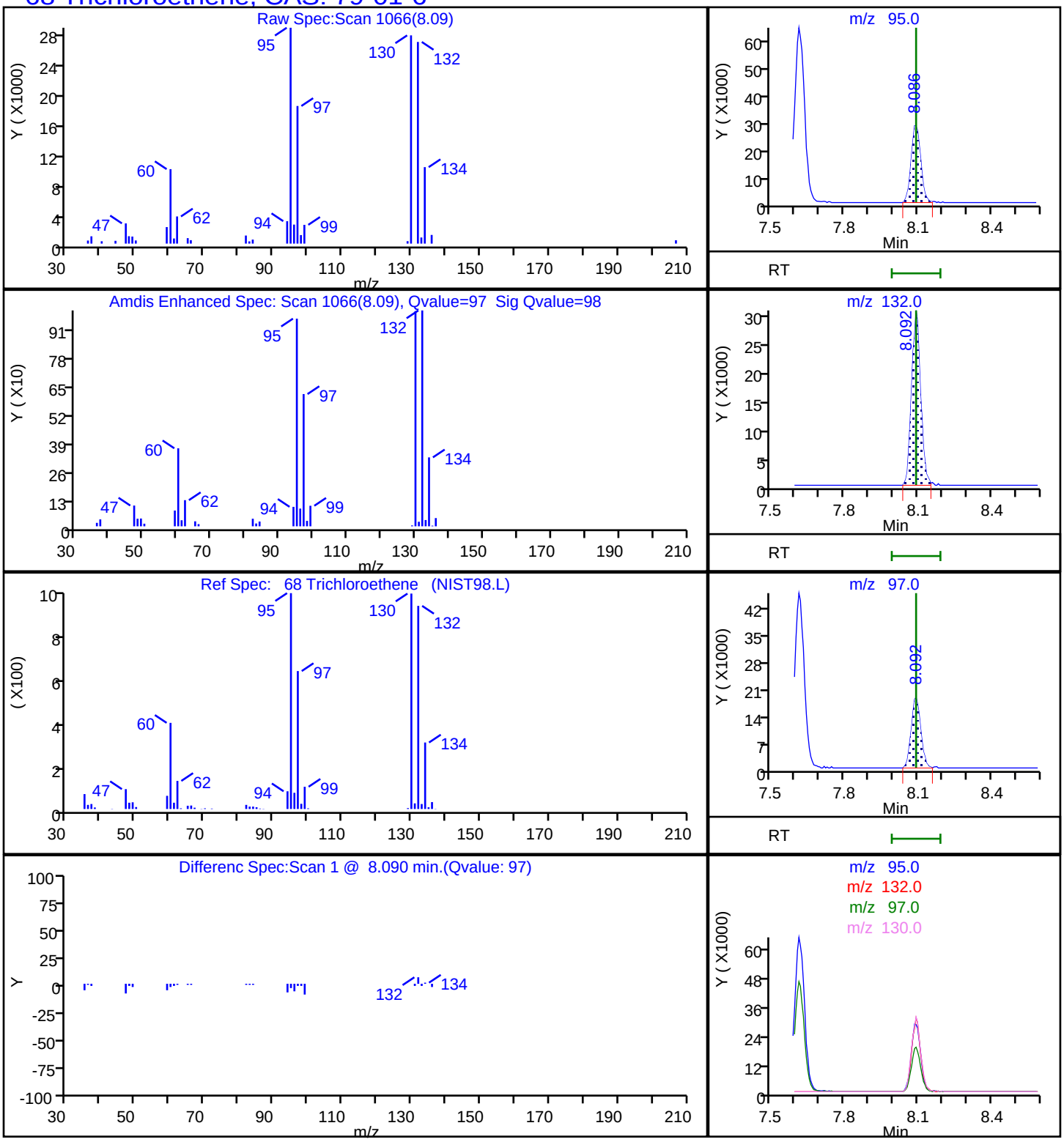
100 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X21.D				
Injection Date:	28-Jun-2022 17:29:30	Instrument ID:	16334		
Lims ID:	410-88520-A-6	Lab Sample ID:	410-88520-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



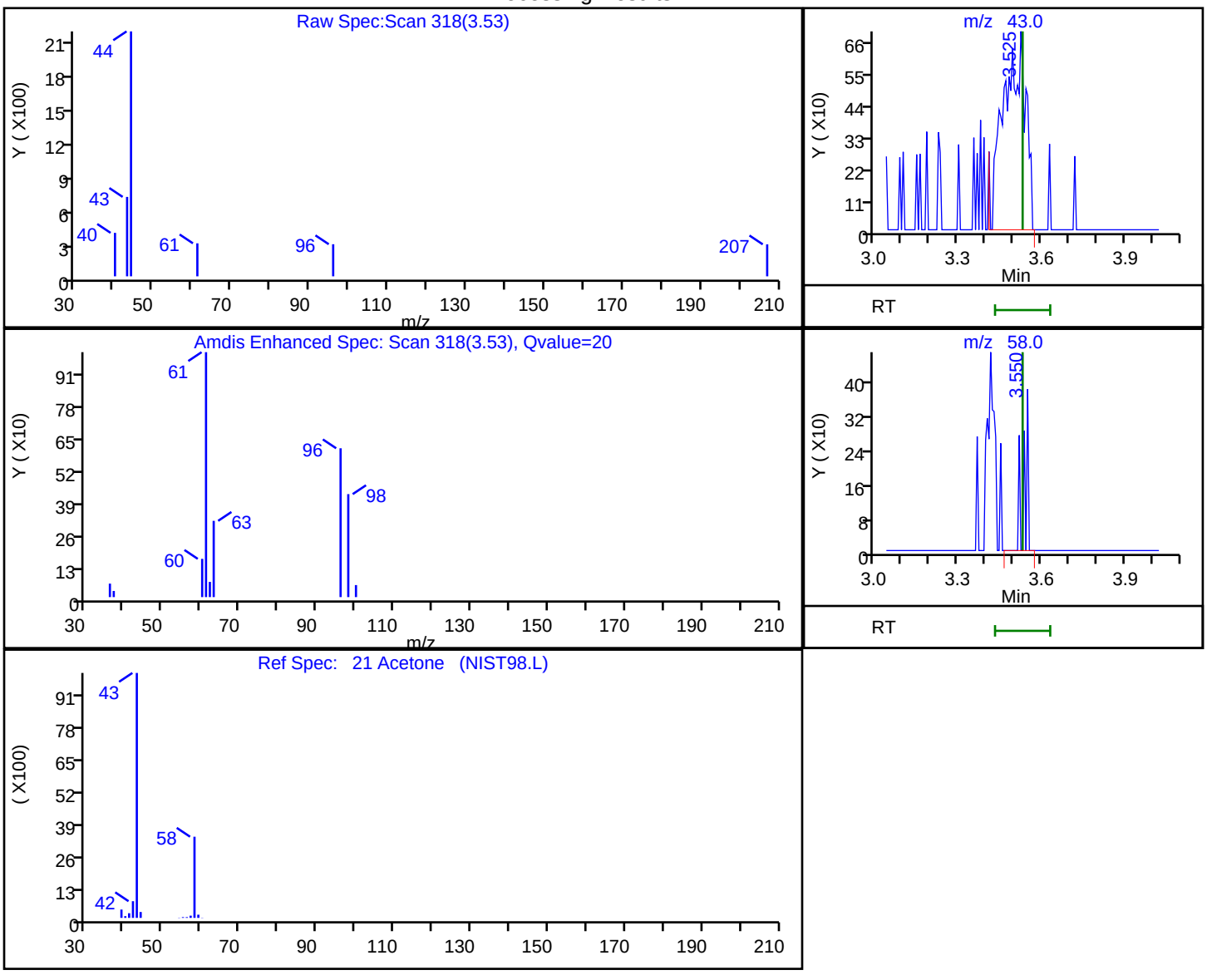
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X21.D				
Injection Date:	28-Jun-2022 17:29:30	Instrument ID:	16334		
Lims ID:	410-88520-A-6	Lab Sample ID:	410-88520-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.53	43.00	3838	0.494393
3.55	58.00	342	

Reviewer: kaewrungrueangp, 29-Jun-2022 14:09:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

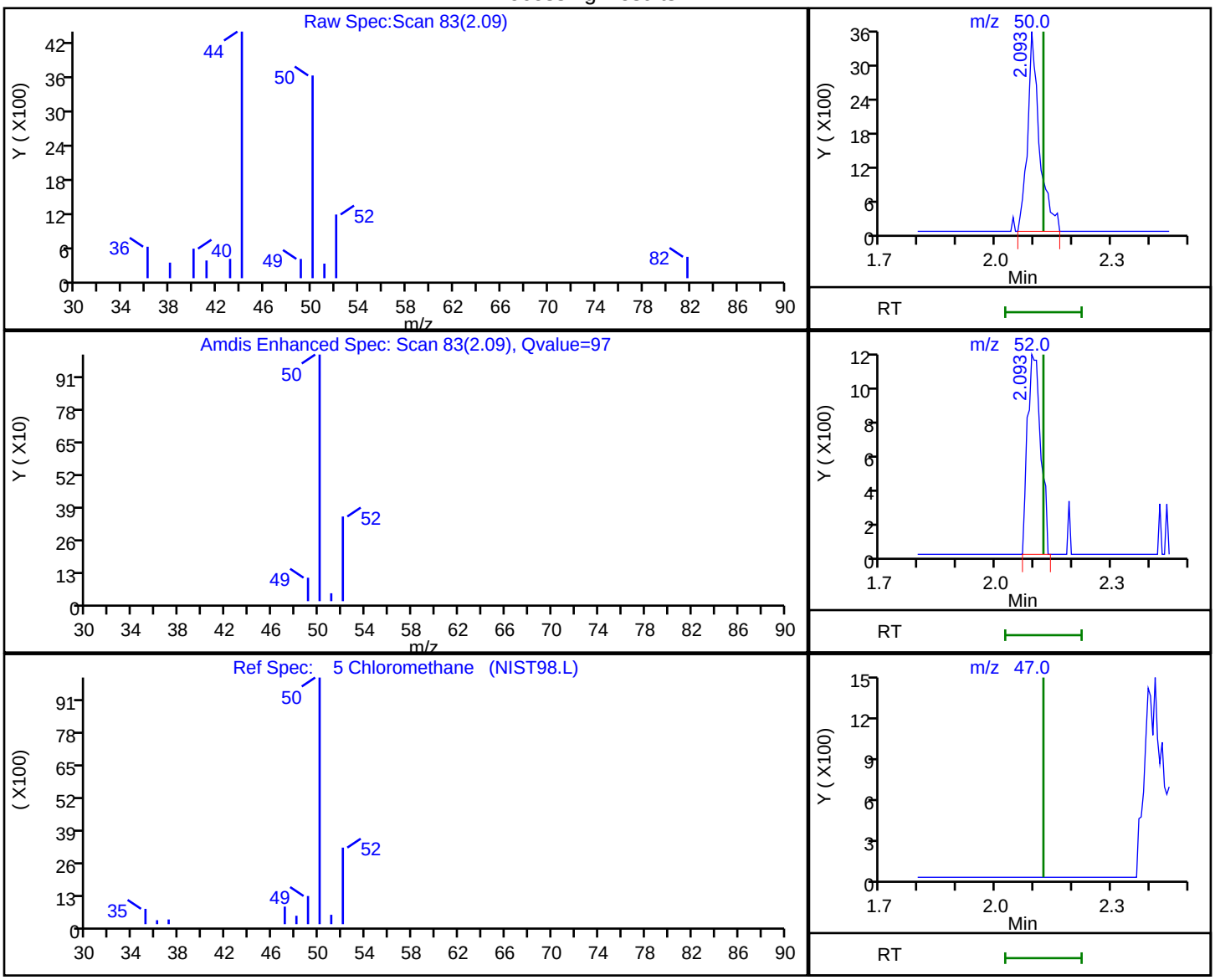
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X21.D				
Injection Date:	28-Jun-2022 17:29:30	Instrument ID:	16334		
Lims ID:	410-88520-A-6	Lab Sample ID:	410-88520-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

5 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
2.09	50.00	7757	0.143017
2.09	52.00	2694	
2.12	47.00	0	

Reviewer: kaewrungrueangp, 29-Jun-2022 14:09:26

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.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0 Lab Sample ID: 410-88520-7

Matrix: Water Lab File ID: GU28X24.D

Analysis Method: 8260D Date Collected: 06/21/2022 10:15

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 18:35

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 270125 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.0	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.13	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.76		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.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0 Lab Sample ID: 410-88520-7

Matrix: Water Lab File ID: GU28X24.D

Analysis Method: 8260D Date Collected: 06/21/2022 10:15

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 18:35

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 270125 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	0.14	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X24.D
Lims ID: 410-88520-A-7
Client ID: HD-COD-SW-16-0/1-0
Sample Type: Client
Inject. Date: 28-Jun-2022 18:35:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060580-025
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Jun-2022 14:12:17 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:12:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.123				ND	U
8 Vinyl chloride	62		2.233				ND	7
9 Bromomethane	94		2.562				ND	
10 Chloroethane	64		2.641				ND	
19 1,1-Dichloroethene	96		3.471				ND	7
21 Acetone	43	3.532	3.532	0.000	81	15126	2.02	
25 Carbon disulfide	76		3.763				ND	7
29 Methylene Chloride	84		4.123				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.178	4.190	-0.012	70	163122	50.0	
33 Methyl tert-butyl ether	73		4.525				ND	
34 trans-1,2-Dichloroethene	96		4.525				ND	
37 1,1-Dichloroethane	63		5.190				ND	
41 2-Butanone (MEK)	43	6.025	6.001	0.024	38	4450	0.3023	a
42 cis-1,2-Dichloroethene	96	6.025	6.031	-0.006	79	6838	0.1332	
49 Chlorobromomethane	128		6.360				ND	
51 Chloroform	83	6.519	6.513	0.006	80	4497	0.0556	a
$ 52 Dibromofluoromethane (Surr)	113	6.726	6.726	0.000	94	528528	10.8	
53 1,1,1-Trichloroethane	97		6.738				ND	U
56 Carbon tetrachloride	117		6.939				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.171	7.177	-0.006	53	114300	11.0	
60 Benzene	78		7.208				ND	
61 1,2-Dichloroethane	62		7.281				ND	
* 64 Fluorobenzene (IS)	96	7.610	7.616	-0.006	99	2042866	10.0	
68 Trichloroethene	95	8.086	8.092	-0.006	96	6883	0.1352	
70 1,2-Dichloropropane	63		8.427				ND	
76 Dichlorobromomethane	83		8.774				ND	
81 cis-1,3-Dichloropropene	75		9.323				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.500				ND	7
$ 83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	2045224	9.80	
84 Toluene	92	9.707	9.707	0.000	98	6513	0.0502	
96 trans-1,3-Dichloropropene	75		9.969				ND	
99 1,1,2-Trichloroethane	97		10.177				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
100 Tetrachloroethene	166	10.262	10.262	0.000	96	45906	0.7597	
102 2-Hexanone	43		10.396				ND	7
104 Chlorodibromomethane	129		10.555				ND	
105 Ethylene Dibromide	107		10.664				ND	
* 106 Chlorobenzene-d5 (IS)	117	11.097	11.097	0.000	84	1630067	10.0	
108 Chlorobenzene	112		11.122				ND	
110 1,1,1,2-Tetrachloroethane	131		11.207				ND	
111 Ethylbenzene	91		11.213				ND	7
S 109 Xylenes, Total	106		11.245				ND	7
112 m-Xylene & p-Xylene	106		11.323				ND	7
113 o-Xylene	106		11.652				ND	
114 Styrene	104		11.670				ND	
115 Bromoform	173		11.829				ND	
$ 119 4-Bromofluorobenzene (Surr)	95	12.097	12.097	0.000	93	722688	9.18	
120 1,1,2,2-Tetrachloroethane	83		12.201				ND	
* 134 1,4-Dichlorobenzene-d4	152	12.975	12.975	0.000	94	899453	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

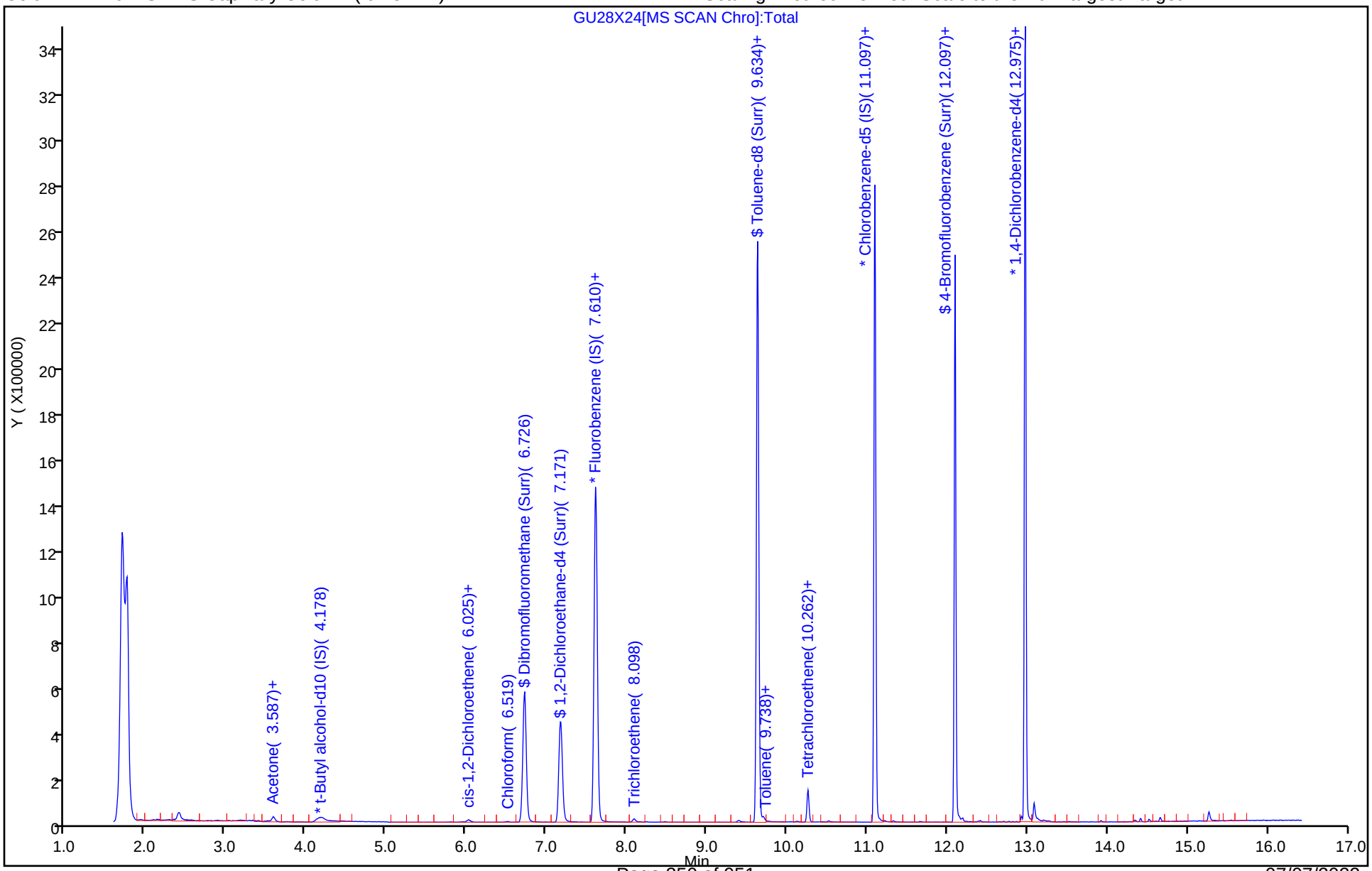
MSV_29_826ISS_00034 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 29-Jun-2022 14:12:17 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X24.D				
Injection Date:	28-Jun-2022 18:35:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-88520-A-7	Lab Sample ID:	410-88520-7	Worklist Smp#:	25
Client ID:	HD-COD-SW-16-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X24.D				
Lims ID:	410-88520-A-7				
Client ID:	HD-COD-SW-16-0/1-0				
Sample Type:	Client				
Inject. Date:	28-Jun-2022 18:35:30	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0060580-025				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	29-Jun-2022 14:12:17	Calib Date:	10-Jan-2022 23:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1674				

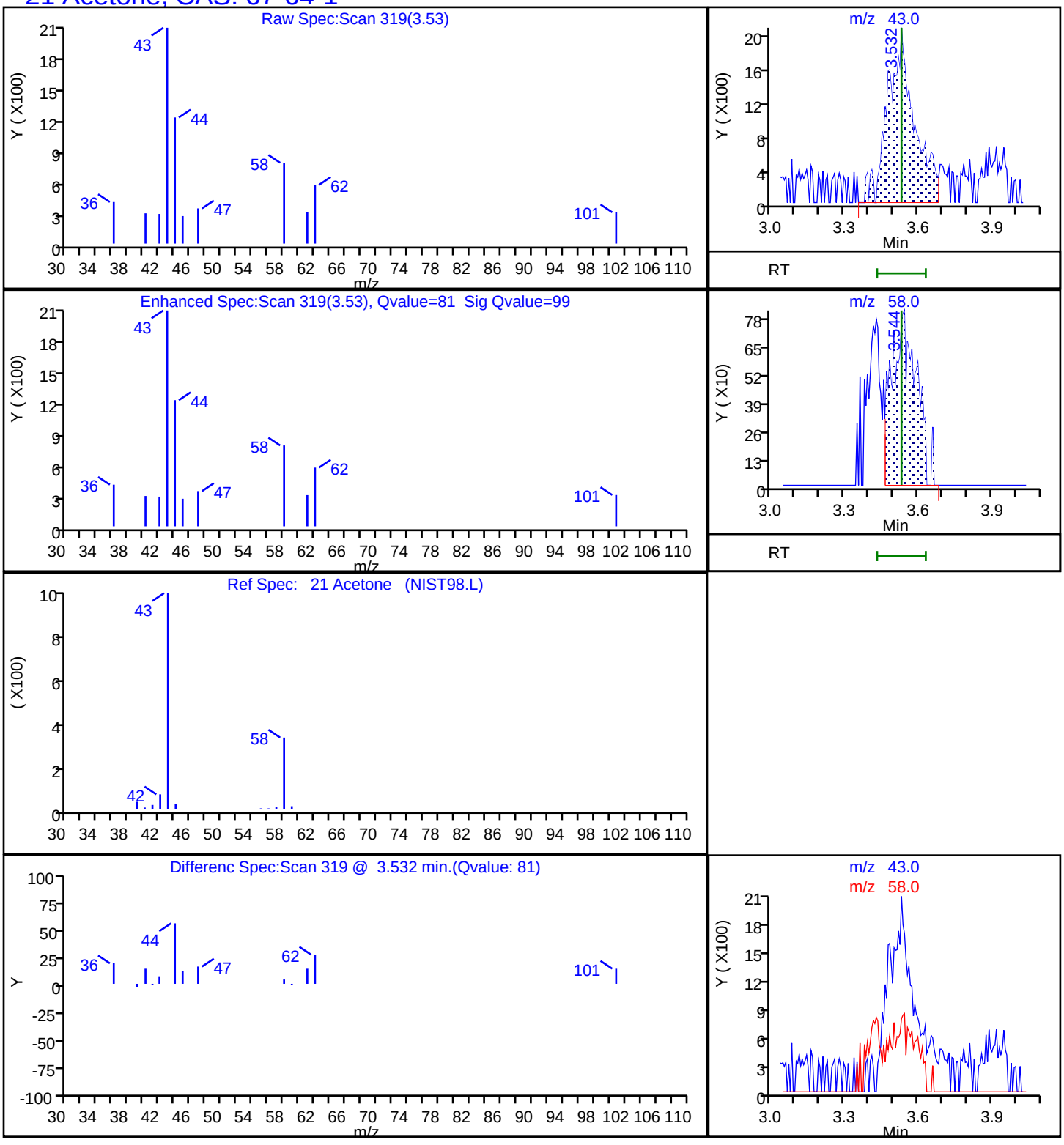
First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:12:17

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.8	107.80
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	11.0	110.30
$ 83 Toluene-d8 (Surr)	10.0	9.80	97.99
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.18	91.76

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X24.D				
Injection Date:	28-Jun-2022 18:35:30	Instrument ID:	16334		
Lims ID:	410-88520-A-7	Lab Sample ID:	410-88520-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

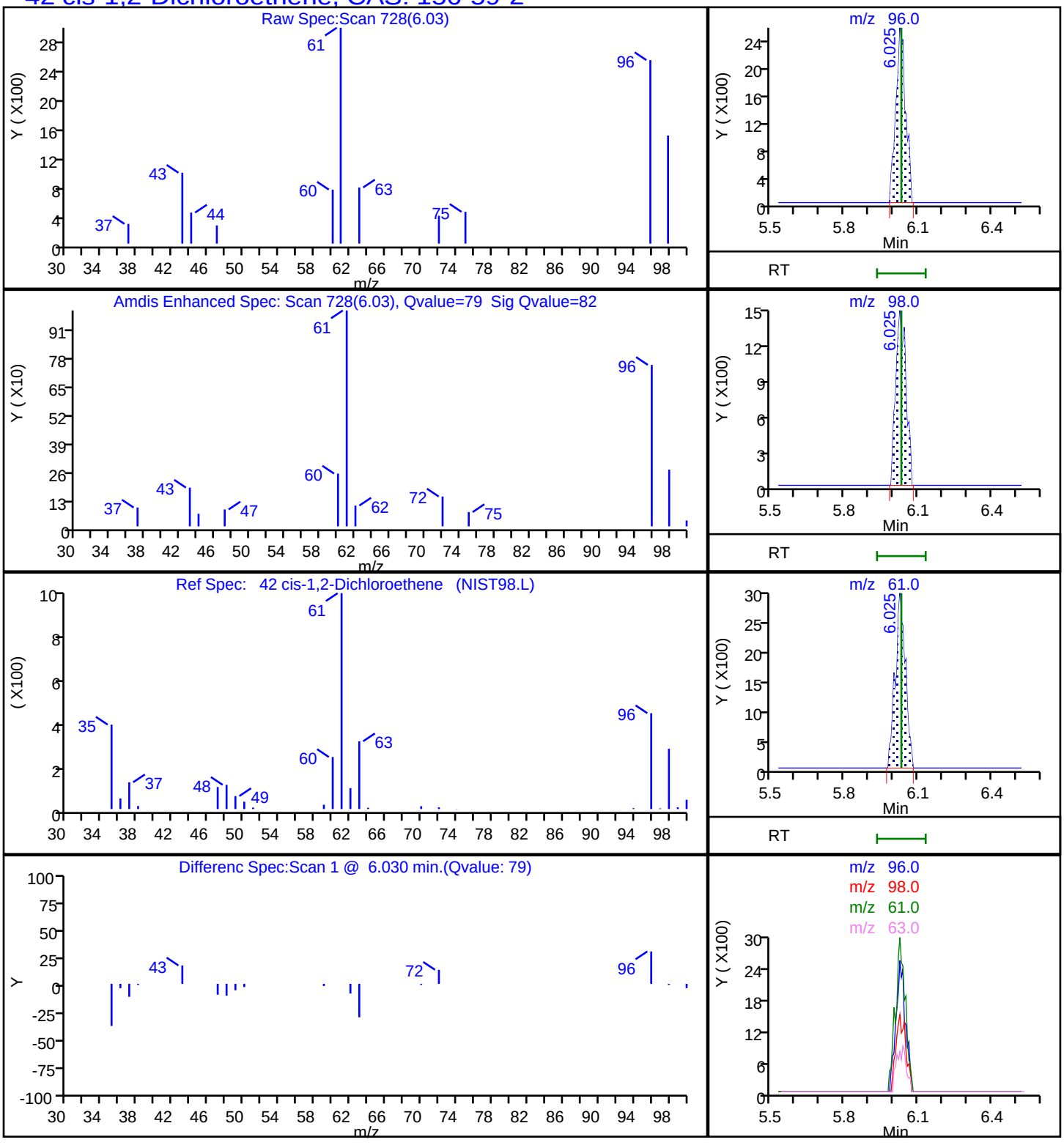
21 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X24.D				
Injection Date:	28-Jun-2022 18:35:30	Instrument ID:	16334		
Lims ID:	410-88520-A-7	Lab Sample ID:	410-88520-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

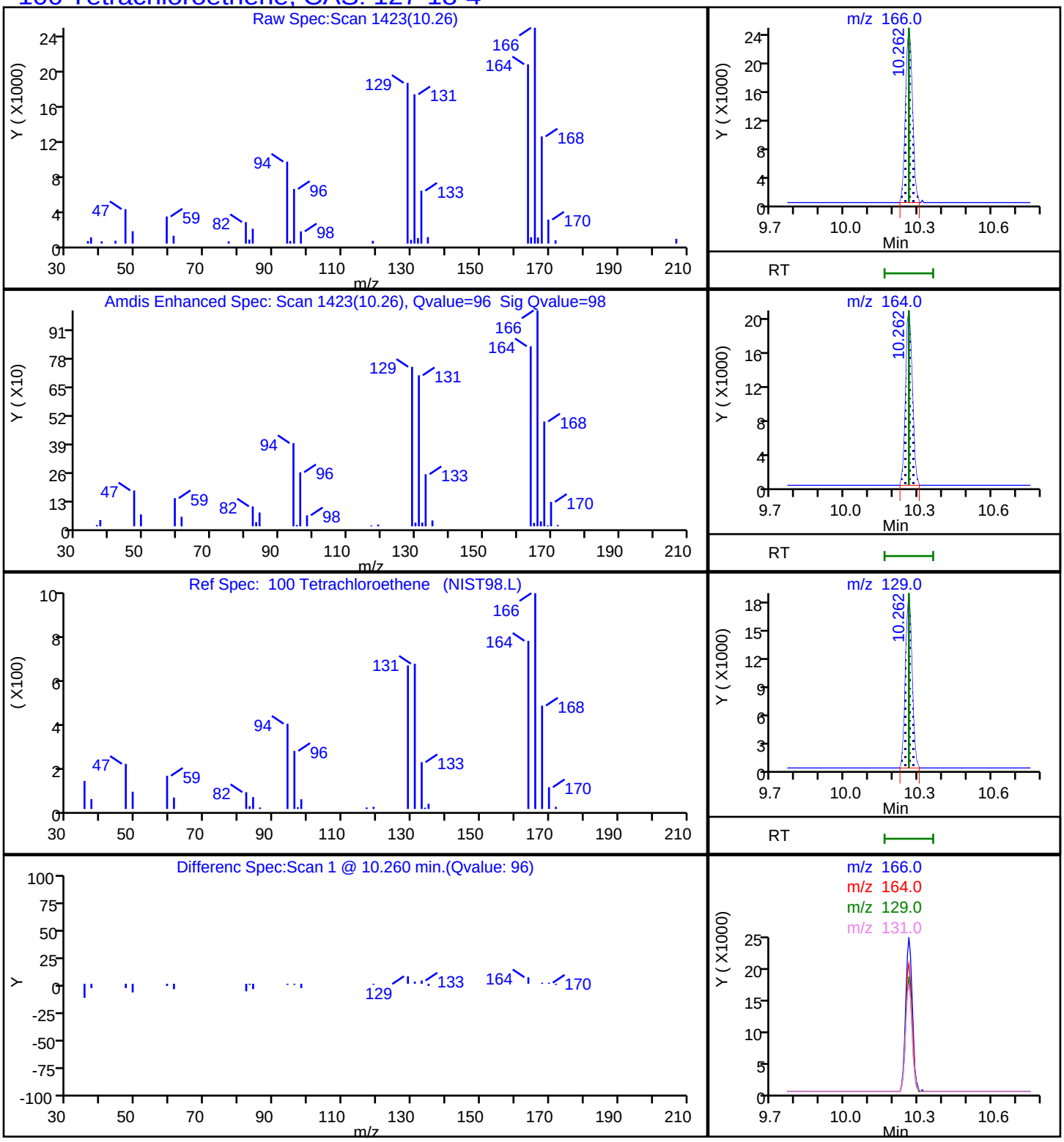
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X24.D				
Injection Date:	28-Jun-2022 18:35:30	Instrument ID:	16334		
Lims ID:	410-88520-A-7	Lab Sample ID:	410-88520-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

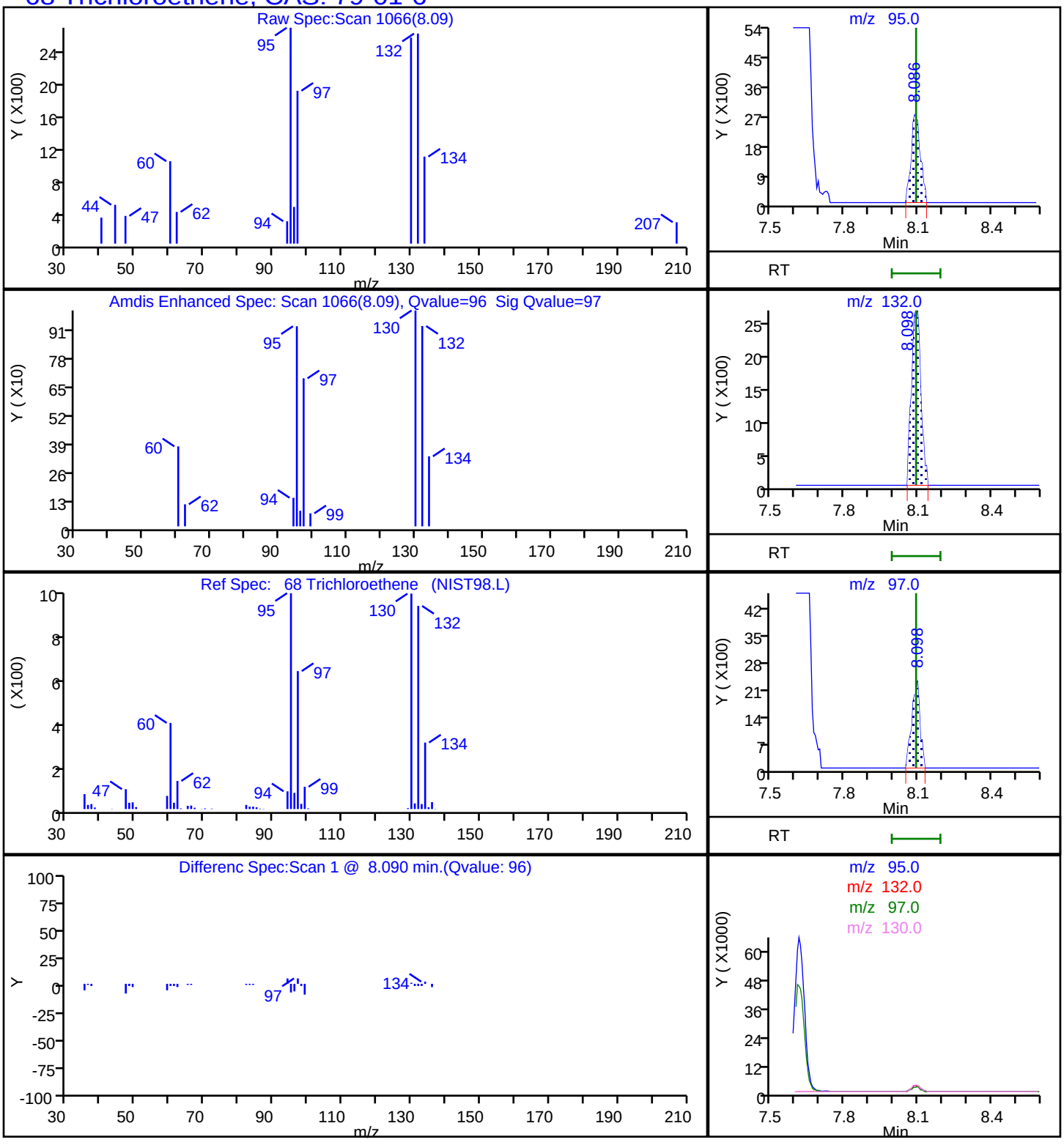
100 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X24.D				
Injection Date:	28-Jun-2022 18:35:30	Instrument ID:	16334		
Lims ID:	410-88520-A-7	Lab Sample ID:	410-88520-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



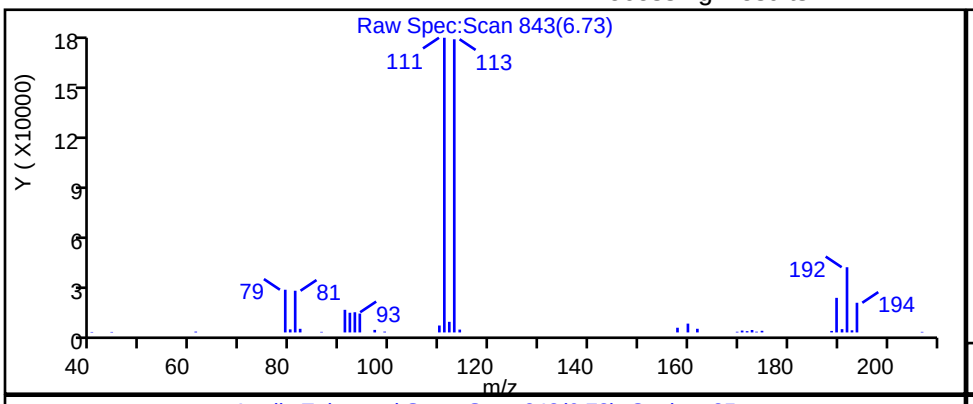
User Disabled Compound Report

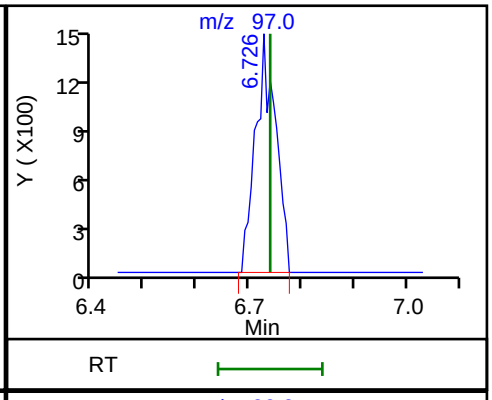
Eurofins Lancaster Laboratories Environment Testing, LLC

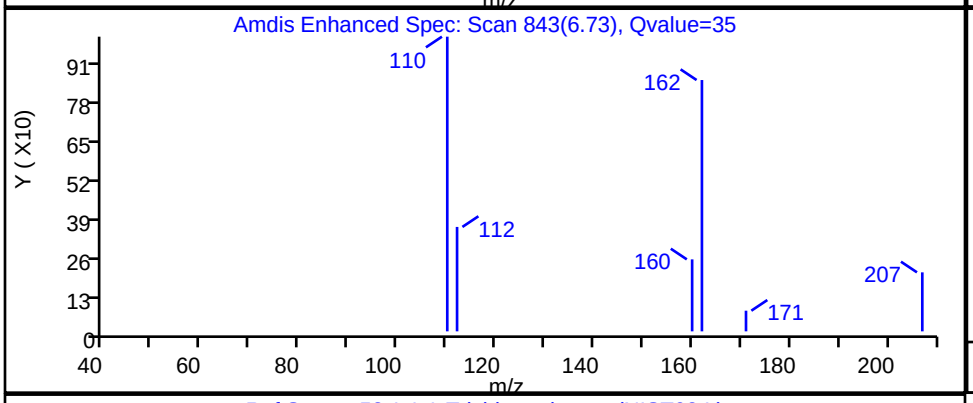
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X24.D				
Injection Date:	28-Jun-2022 18:35:30	Instrument ID:	16334		
Lims ID:	410-88520-A-7	Lab Sample ID:	410-88520-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

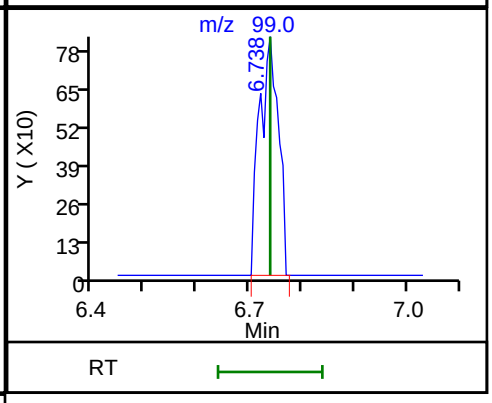
53 1,1,1-Trichloroethane, CAS: 71-55-6

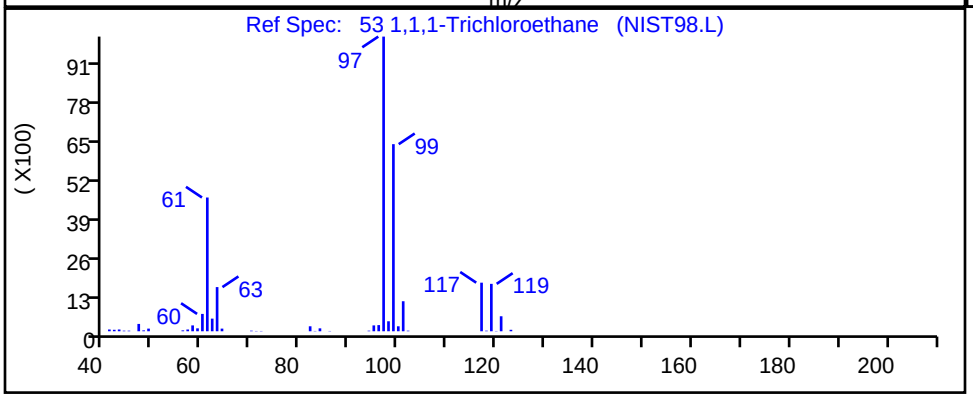
Processing Results











RT	Mass	Response	Amount
6.73	97.00	3995	0.057824
6.74	99.00	2064	

Reviewer: kaewrungrueangp, 29-Jun-2022 14:12:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

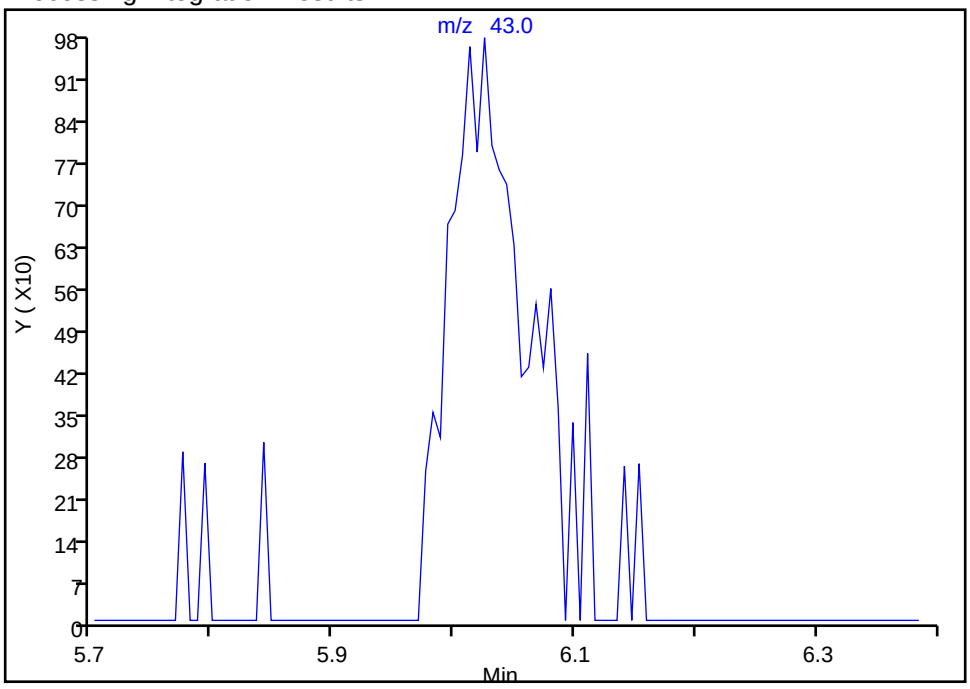
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X24.D				
Injection Date:	28-Jun-2022 18:35:30	Instrument ID:	16334		
Lims ID:	410-88520-A-7	Lab Sample ID:	410-88520-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

41 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

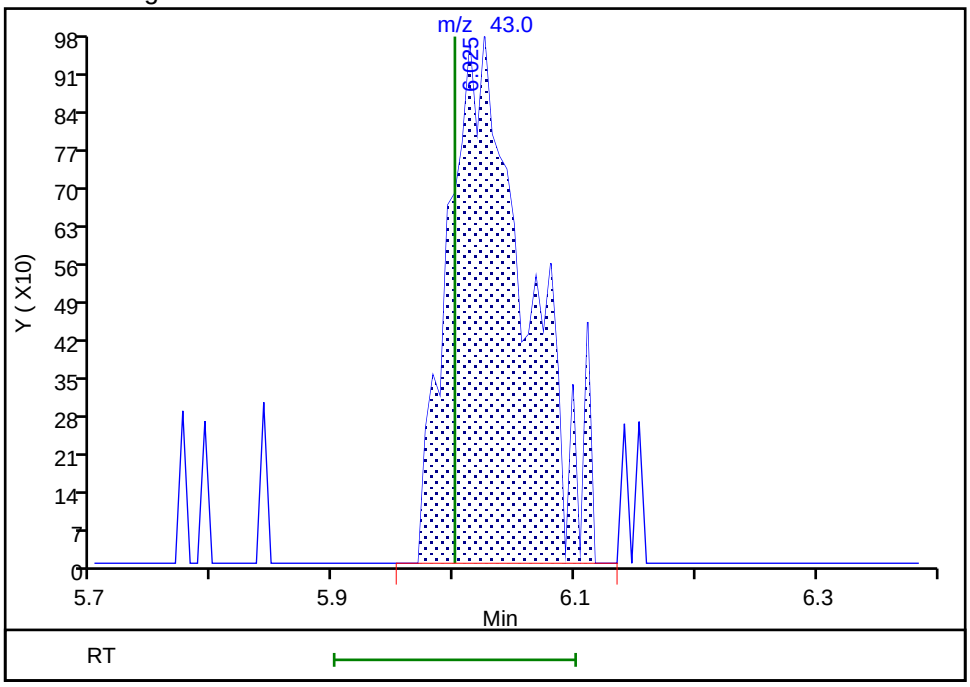
Not Detected
Expected RT: 6.00

Processing Integration Results



Manual Integration Results

RT: 6.03
Area: 4450
Amount: 0.302276
Amount Units: ug/l



Reviewer: kaewrungrueangp, 29-Jun-2022 14:11:50
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

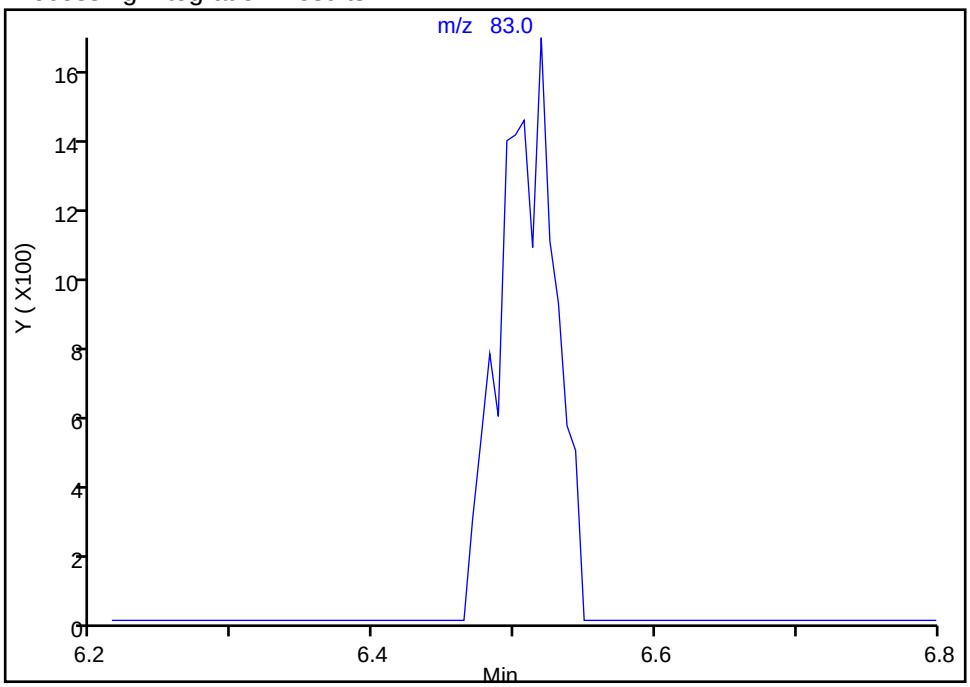
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X24.D				
Injection Date:	28-Jun-2022 18:35:30	Instrument ID:	16334		
Lims ID:	410-88520-A-7	Lab Sample ID:	410-88520-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

51 Chloroform, CAS: 67-66-3

Signal: 1

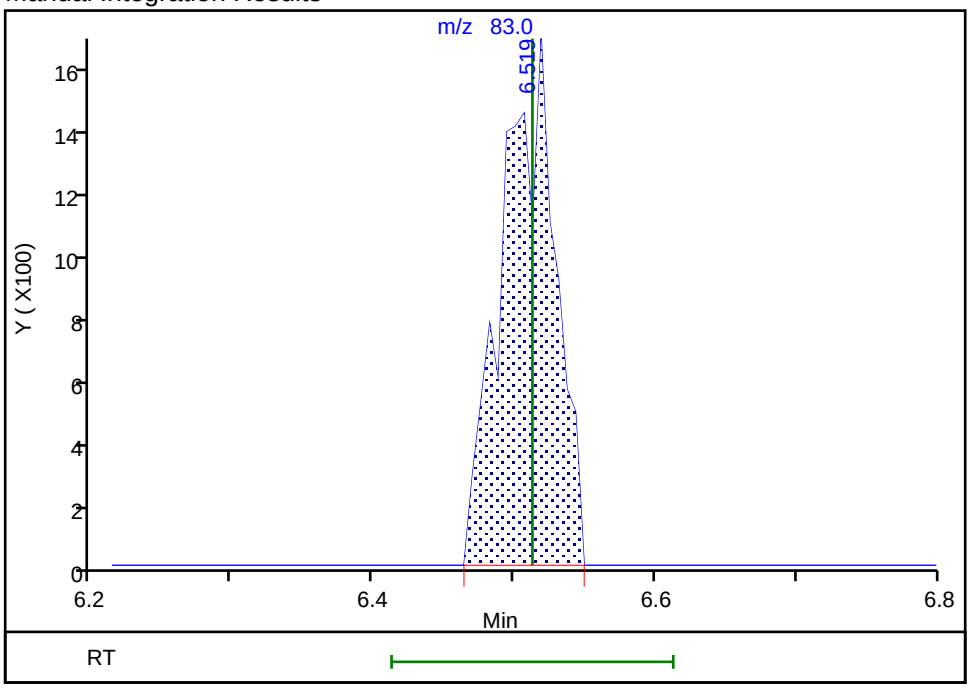
Not Detected
Expected RT: 6.51

Processing Integration Results



Manual Integration Results

RT: 6.52
Area: 4497
Amount: 0.055638
Amount Units: ug/l



Reviewer: kaewrungrueangp, 29-Jun-2022 14:11:58
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

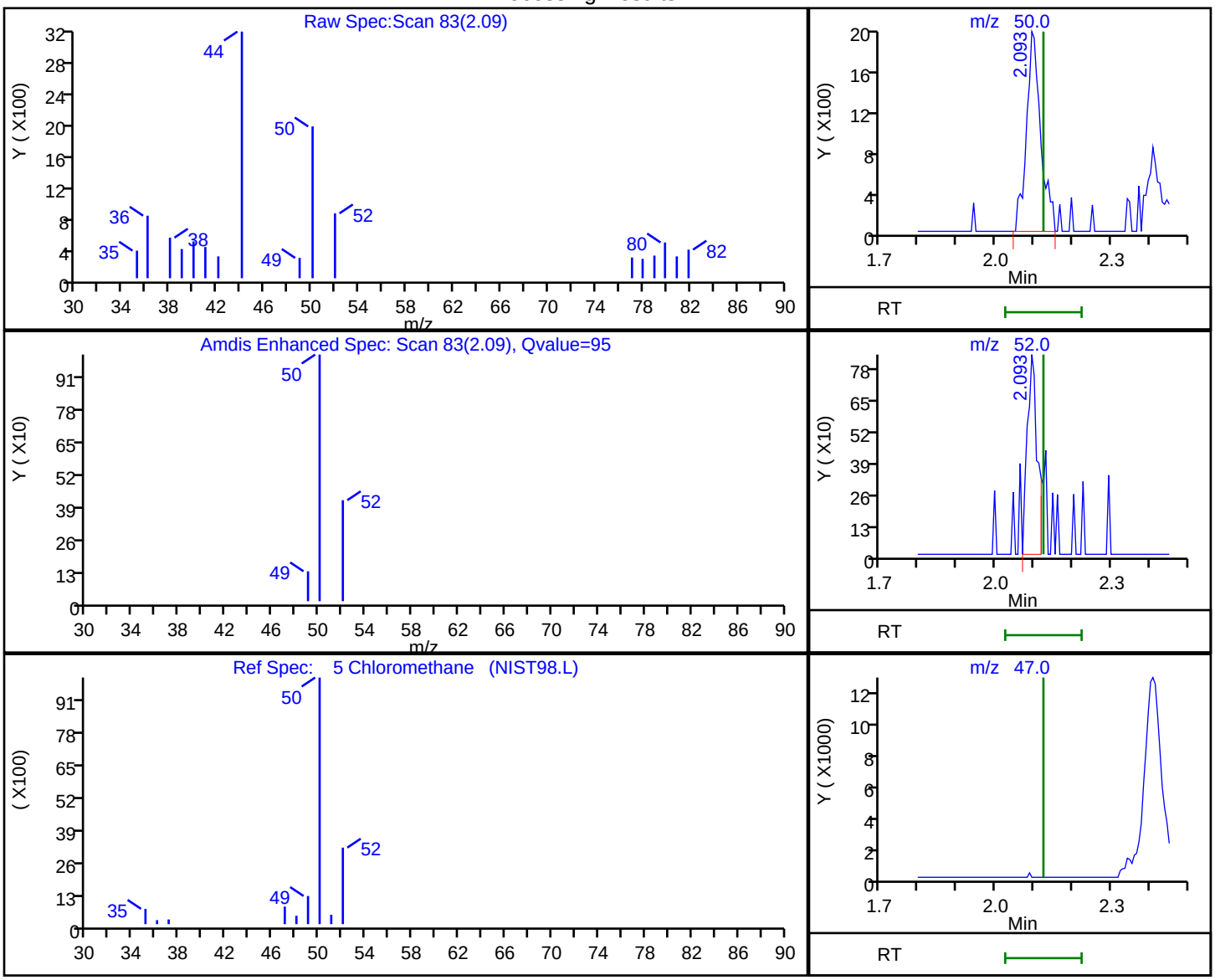
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X24.D				
Injection Date:	28-Jun-2022 18:35:30	Instrument ID:	16334		
Lims ID:	410-88520-A-7	Lab Sample ID:	410-88520-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

5 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
2.09	50.00	5058	0.089322
2.09	52.00	1516	
2.12	47.00	0	

Reviewer: kaewrungrueangp, 29-Jun-2022 14:11:39

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.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0 Lab Sample ID: 410-88520-8

Matrix: Water Lab File ID: GU28X25.D

Analysis Method: 8260D Date Collected: 06/21/2022 10:30

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 18:57

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.: 270125 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	7.9		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	1.3		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		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.29	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	4.3		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
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.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0 Lab Sample ID: 410-88520-8

Matrix: Water Lab File ID: GU28X25.D

Analysis Method: 8260D Date Collected: 06/21/2022 10:30

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 18:57

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.: 270125 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	6.1		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)	108		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X25.D
Lims ID: 410-88520-A-8
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 28-Jun-2022 18:57:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060580-026
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Jun-2022 14:12:17 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:13:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.123				ND	
8 Vinyl chloride	62	2.215	2.233	-0.018	1	3764	0.0648	
9 Bromomethane	94		2.562				ND	
10 Chloroethane	64		2.641				ND	
19 1,1-Dichloroethene	96	3.471	3.471	0.000	98	28476	0.6770	
21 Acetone	43	3.519	3.532	-0.013	31	5664	0.8288	
25 Carbon disulfide	76		3.763				ND	7
29 Methylene Chloride	84		4.123				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.196	4.190	0.006	71	148665	50.0	
33 Methyl tert-butyl ether	73	4.501	4.525	-0.024	69	3083	0.0268	
34 trans-1,2-Dichloroethene	96		4.525				ND	7
37 1,1-Dichloroethane	63	5.190	5.190	0.000	96	106063	1.35	
41 2-Butanone (MEK)	43		6.001				ND	7
42 cis-1,2-Dichloroethene	96	6.025	6.031	-0.006	77	216505	4.25	
49 Chlorobromomethane	128		6.360				ND	
51 Chloroform	83	6.507	6.513	-0.006	92	23467	0.2927	
$ 52 Dibromofluoromethane (Surr)	113	6.720	6.726	-0.006	94	527352	10.8	
53 1,1,1-Trichloroethane	97	6.732	6.738	-0.006	97	539445	7.87	
56 Carbon tetrachloride	117		6.939				ND	7
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.171	7.177	-0.006	30	113747	11.1	
60 Benzene	78		7.208				ND	
61 1,2-Dichloroethane	62		7.281				ND	
* 64 Fluorobenzene (IS)	96	7.610	7.616	-0.006	99	2026109	10.0	
68 Trichloroethene	95	8.092	8.092	0.000	97	306411	6.07	
70 1,2-Dichloropropane	63		8.427				ND	
76 Dichlorobromomethane	83		8.774				ND	
81 cis-1,3-Dichloropropene	75		9.323				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.500				ND	
$ 83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	2035362	9.64	
84 Toluene	92		9.707				ND	7
96 trans-1,3-Dichloropropene	75		9.969				ND	
99 1,1,2-Trichloroethane	97		10.177				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
100 Tetrachloroethene	166	10.262	10.262	0.000	97	6525572	106.7	E
102 2-Hexanone	43		10.396				ND	7
104 Chlorodibromomethane	129		10.555				ND	
105 Ethylene Dibromide	107		10.664				ND	
* 106 Chlorobenzene-d5 (IS)	117	11.097	11.097	0.000	84	1649346	10.0	
108 Chlorobenzene	112		11.122				ND	
110 1,1,1,2-Tetrachloroethane	131		11.207				ND	
111 Ethylbenzene	91		11.213				ND	
S 109 Xylenes, Total	106		11.245				ND	7
112 m-Xylene & p-Xylene	106		11.323				ND	7
113 o-Xylene	106		11.652				ND	
114 Styrene	104		11.670				ND	
115 Bromoform	173		11.829				ND	
$ 119 4-Bromofluorobenzene (Surr)	95	12.097	12.097	0.000	92	726055	9.11	
120 1,1,2,2-Tetrachloroethane	83		12.201				ND	
* 134 1,4-Dichlorobenzene-d4	152	12.975	12.975	0.000	94	884756	10.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Reagents:

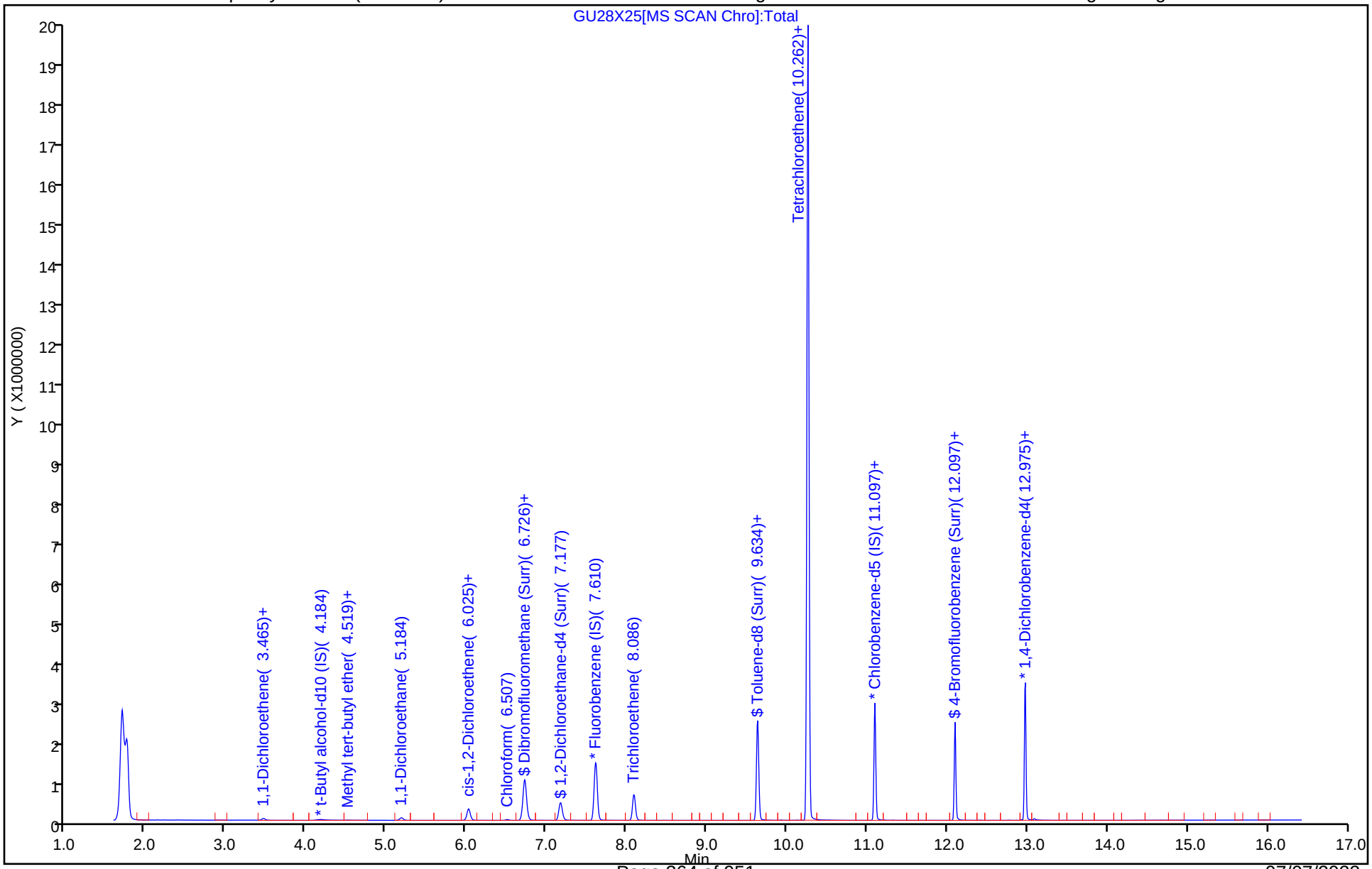
MSV_29_826ISS_00034 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 29-Jun-2022 14:13:01 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X25.D				
Injection Date:	28-Jun-2022 18:57:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-88520-A-8	Lab Sample ID:	410-88520-8	Worklist Smp#:	26
Client ID:	HD-COD-SW-17-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X25.D				
Lims ID:	410-88520-A-8				
Client ID:	HD-COD-SW-17-0/1-0				
Sample Type:	Client				
Inject. Date:	28-Jun-2022 18:57:30	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0060580-026				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	29-Jun-2022 14:12:17	Calib Date:	10-Jan-2022 23:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1674				

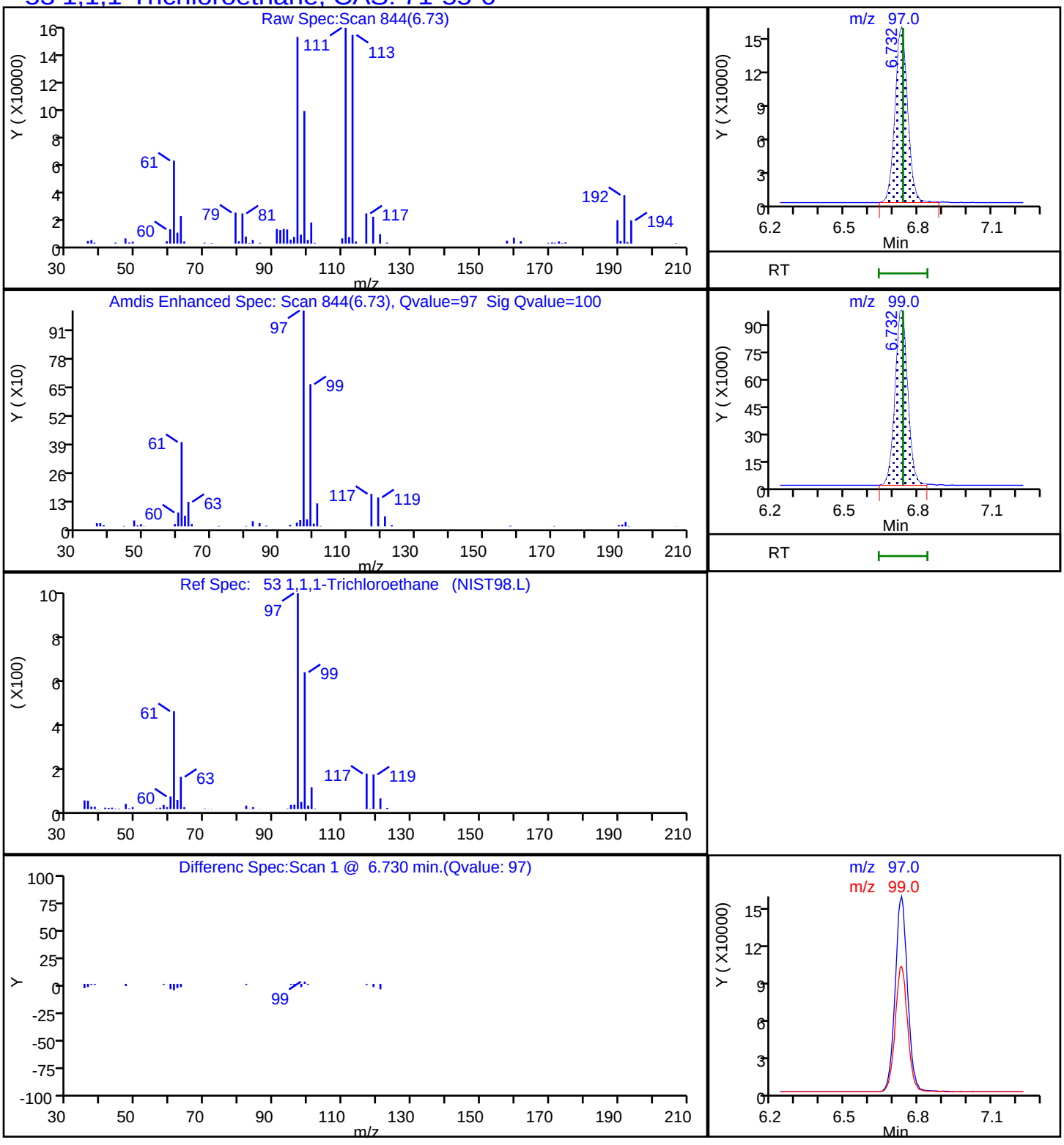
First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:13:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.8	108.45
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	11.1	110.67
$ 83 Toluene-d8 (Surr)	10.0	9.64	96.38
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.11	91.11

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X25.D				
Injection Date:	28-Jun-2022 18:57:30	Instrument ID:	16334		
Lims ID:	410-88520-A-8	Lab Sample ID:	410-88520-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

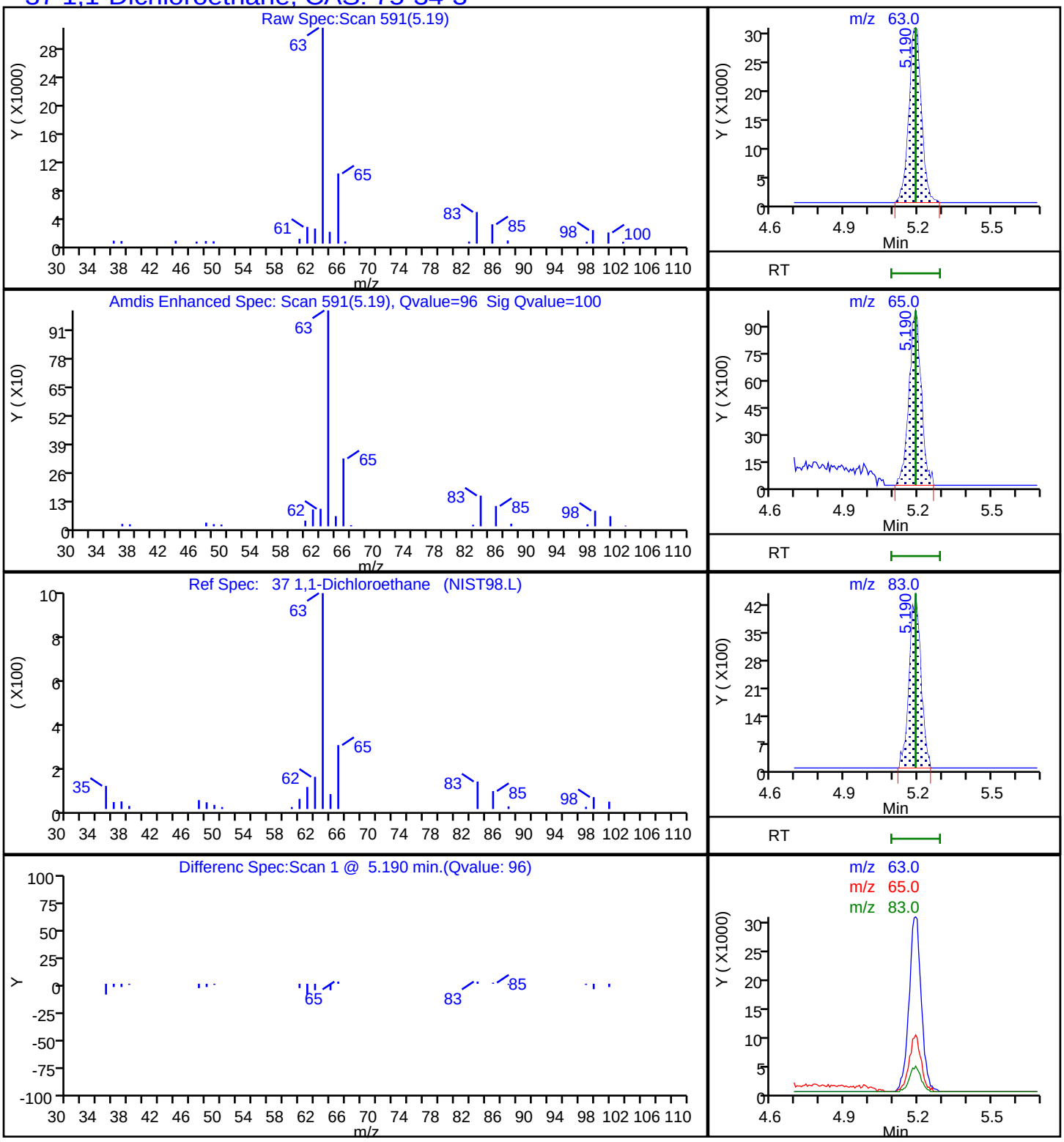
53 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X25.D				
Injection Date:	28-Jun-2022 18:57:30	Instrument ID:	16334		
Lims ID:	410-88520-A-8	Lab Sample ID:	410-88520-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

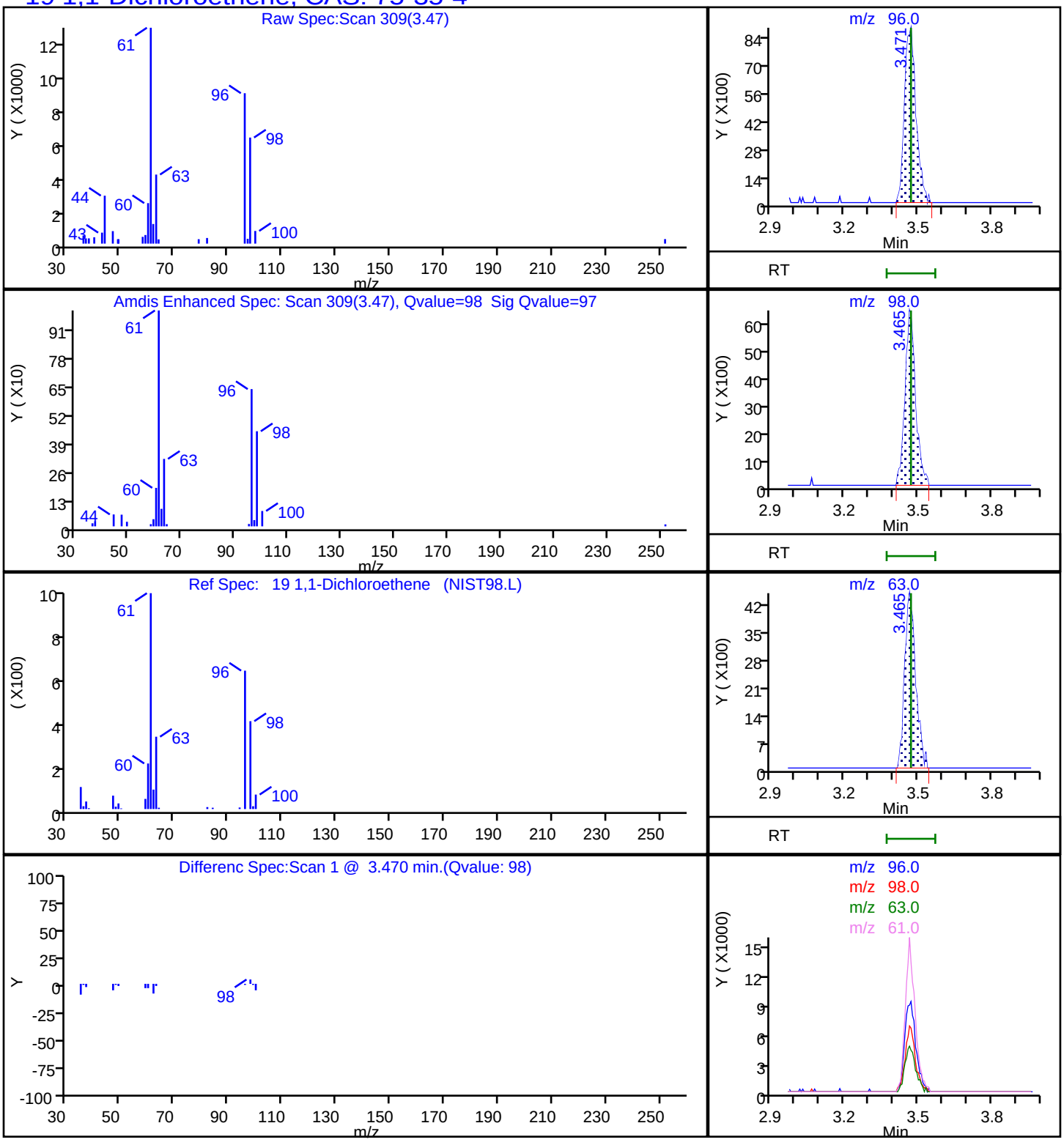
37 1,1-Dichloroethane, CAS: 75-34-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X25.D				
Injection Date:	28-Jun-2022 18:57:30	Instrument ID:	16334		
Lims ID:	410-88520-A-8	Lab Sample ID:	410-88520-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

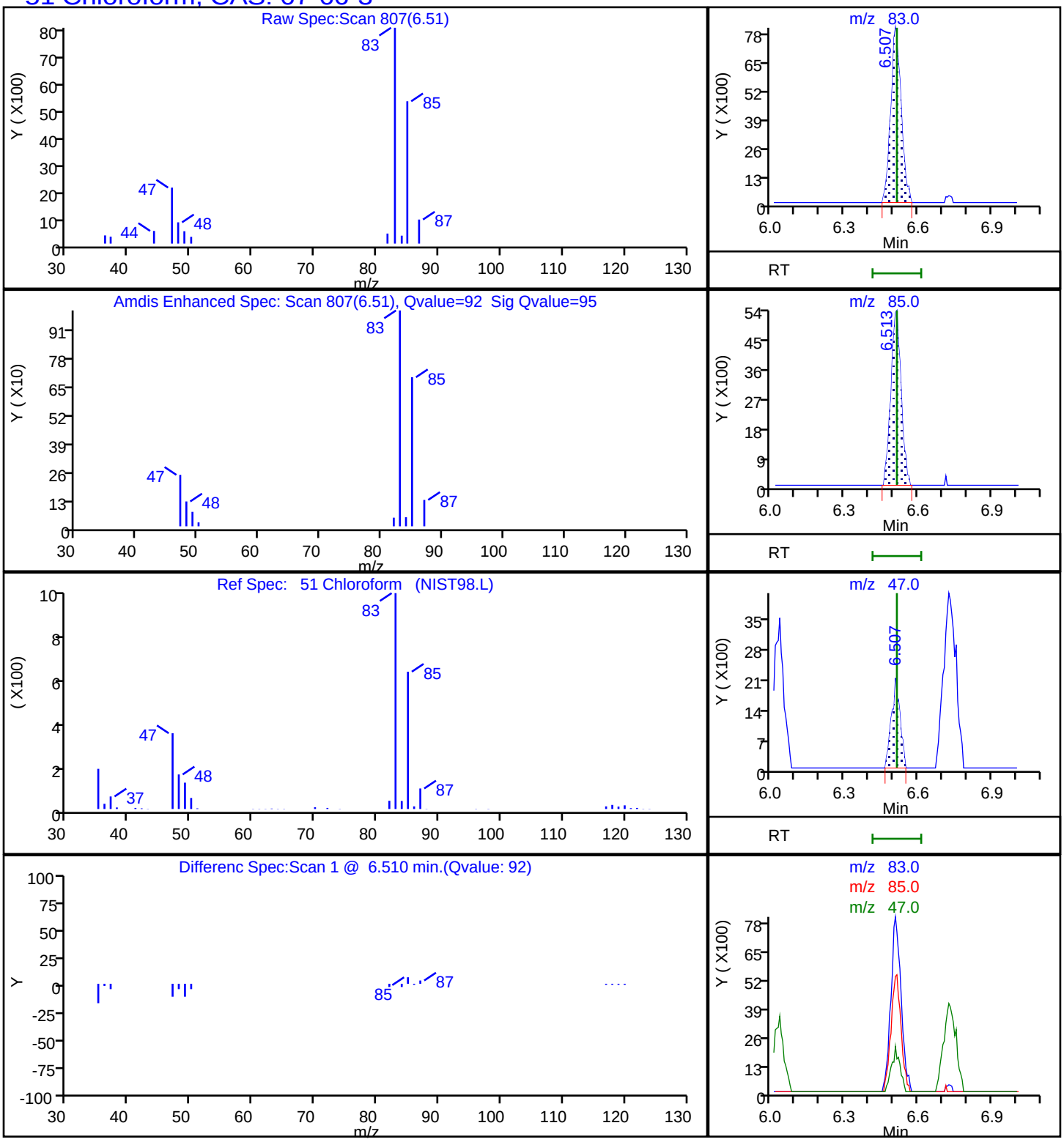
19 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X25.D				
Injection Date:	28-Jun-2022 18:57:30	Instrument ID:	16334		
Lims ID:	410-88520-A-8	Lab Sample ID:	410-88520-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

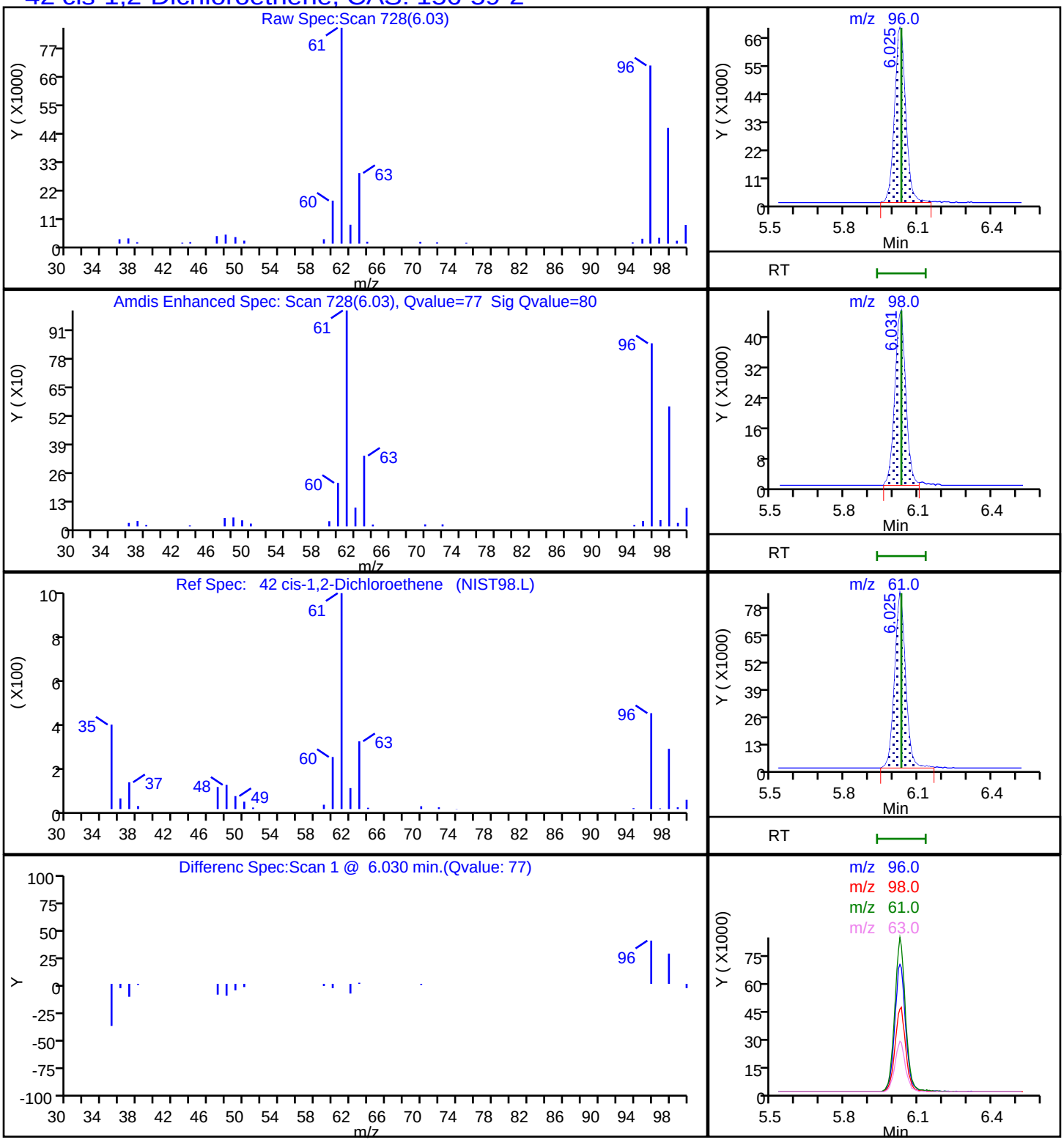
51 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X25.D				
Injection Date:	28-Jun-2022 18:57:30	Instrument ID:	16334		
Lims ID:	410-88520-A-8	Lab Sample ID:	410-88520-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

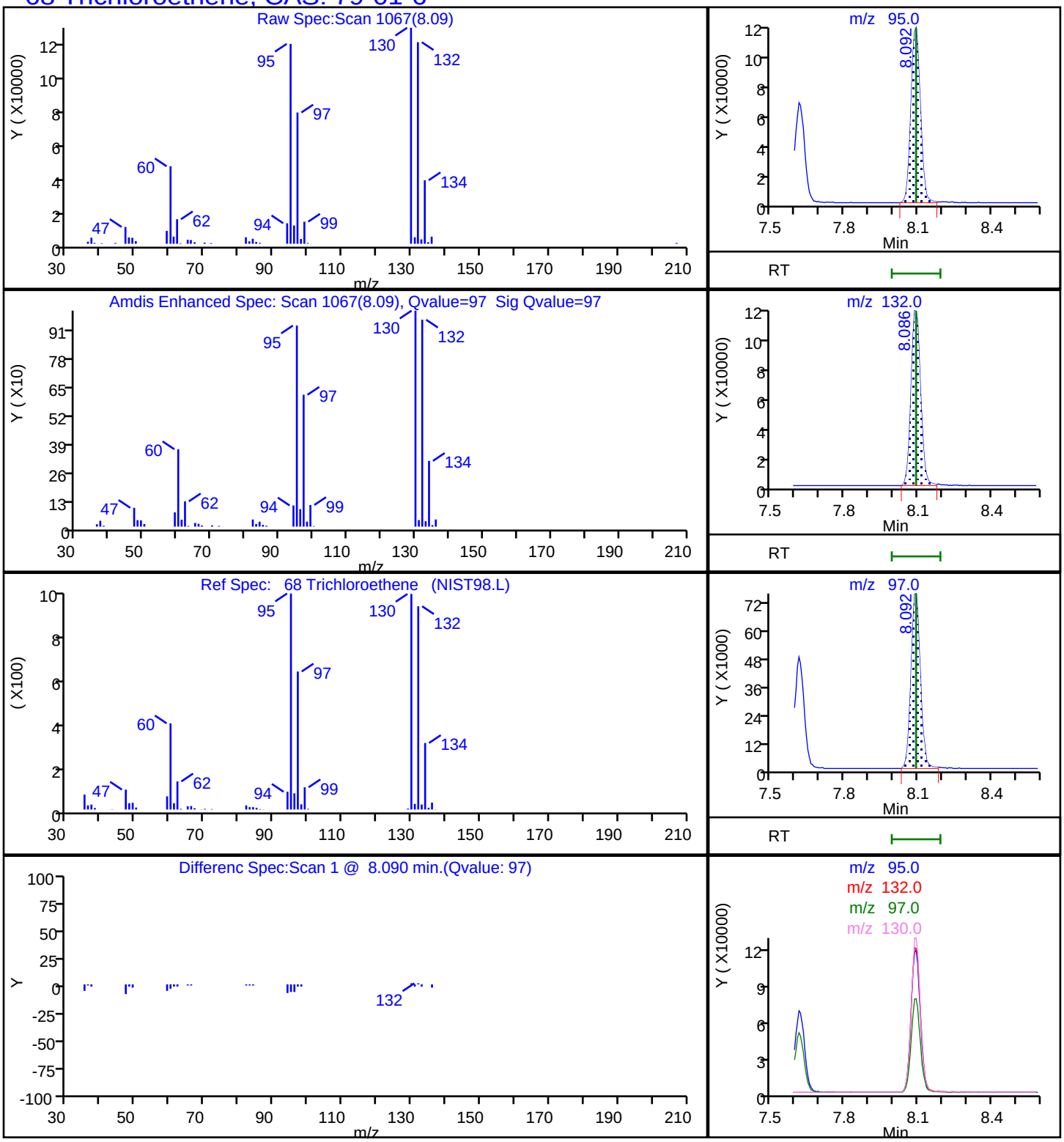
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X25.D				
Injection Date:	28-Jun-2022 18:57:30	Instrument ID:	16334		
Lims ID:	410-88520-A-8	Lab Sample ID:	410-88520-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0 DL Lab Sample ID: 410-88520-8 DL

Matrix: Water Lab File ID: IU30X30.D

Analysis Method: 8260D Date Collected: 06/21/2022 10:30

Sample wt/vol: 25(mL) Date Analyzed: 06/30/2022 19:54

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.: 271084 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	76		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)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	106		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220630-60785.b\IU30X30.D
Lims ID: 410-88520-B-8 DL
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 30-Jun-2022 19:54:30 ALS Bottle#: 30 Worklist Smp#: 31
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0060785-031
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220630-60785.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Jul-2022 13:44:15 Calib Date: 15-Mar-2022 03:22:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1644

First Level Reviewer: innoonk Date: 01-Jul-2022 13:44:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.166				ND	
5 Vinyl chloride	62		2.282				ND	7
7 Bromomethane	94		2.623				ND	
8 Chloroethane	64		2.696				ND	
14 1,1-Dichloroethene	96	3.550	3.562	-0.012	93	3326	0.0481	
15 Acetone	43		3.586				ND	7
19 Carbon disulfide	76	3.867	3.861	0.006	98	6560	0.0423	
23 Methylene Chloride	84		4.226				ND	7
* 24 t-Butyl alcohol-d10 (IS)	65	4.233	4.239	-0.006	27	207630	50.0	
27 Methyl tert-butyl ether	73		4.629				ND	
28 trans-1,2-Dichloroethene	96		4.647				ND	
31 1,1-Dichloroethane	63	5.287	5.299	-0.012	95	15288	0.1139	
36 2-Butanone (MEK)	43		6.086				ND	
37 cis-1,2-Dichloroethene	96	6.129	6.129	0.001	79	32888	0.3670	
43 Chlorobromomethane	128		6.458				ND	
45 Chloroform	83	6.604	6.604	0.000	80	3701	0.0256	
$ 46 Dibromofluoromethane (Surr)	113	6.817	6.817	0.000	94	677109	9.49	
47 1,1,1-Trichloroethane	97	6.830	6.836	-0.006	97	76340	0.5443	
50 Carbon tetrachloride	117		7.043				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.269	7.275	-0.006	67	136524	10.7	
54 Benzene	78		7.305				ND	
56 1,2-Dichloroethane	62		7.372				ND	
* 58 Fluorobenzene (IS)	96	7.701	7.707	-0.006	99	2636704	10.0	
61 Trichloroethene	95	8.183	8.183	0.000	97	42273	0.4736	
63 1,2-Dichloropropane	63		8.512				ND	
68 Dichlorobromomethane	83		8.854				ND	
73 cis-1,3-Dichloropropene	75		9.402				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.567				ND	7
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2633054	10.6	
76 Toluene	92		9.780				ND	7
78 trans-1,3-Dichloropropene	75		10.036				ND	
80 1,1,2-Trichloroethane	97		10.237				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
81 Tetrachloroethene	166	10.329	10.329	0.000	98	839065	7.57	
83 2-Hexanone	43		10.451				ND	
85 Chlorodibromomethane	129		10.615				ND	
86 Ethylene Dibromide	107		10.731				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	2044297	10.0	
90 Chlorobenzene	112		11.182				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.262				ND	
92 Ethylbenzene	91		11.268				ND	7
93 m-Xylene & p-Xylene	106		11.384				ND	7
94 o-Xylene	106		11.713				ND	7
95 Styrene	104		11.725				ND	7
96 Bromoform	173		11.883				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.158	12.158	0.000	92	930294	9.64	
101 1,1,2,2-Tetrachloroethane	83		12.255				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	94	1108930	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

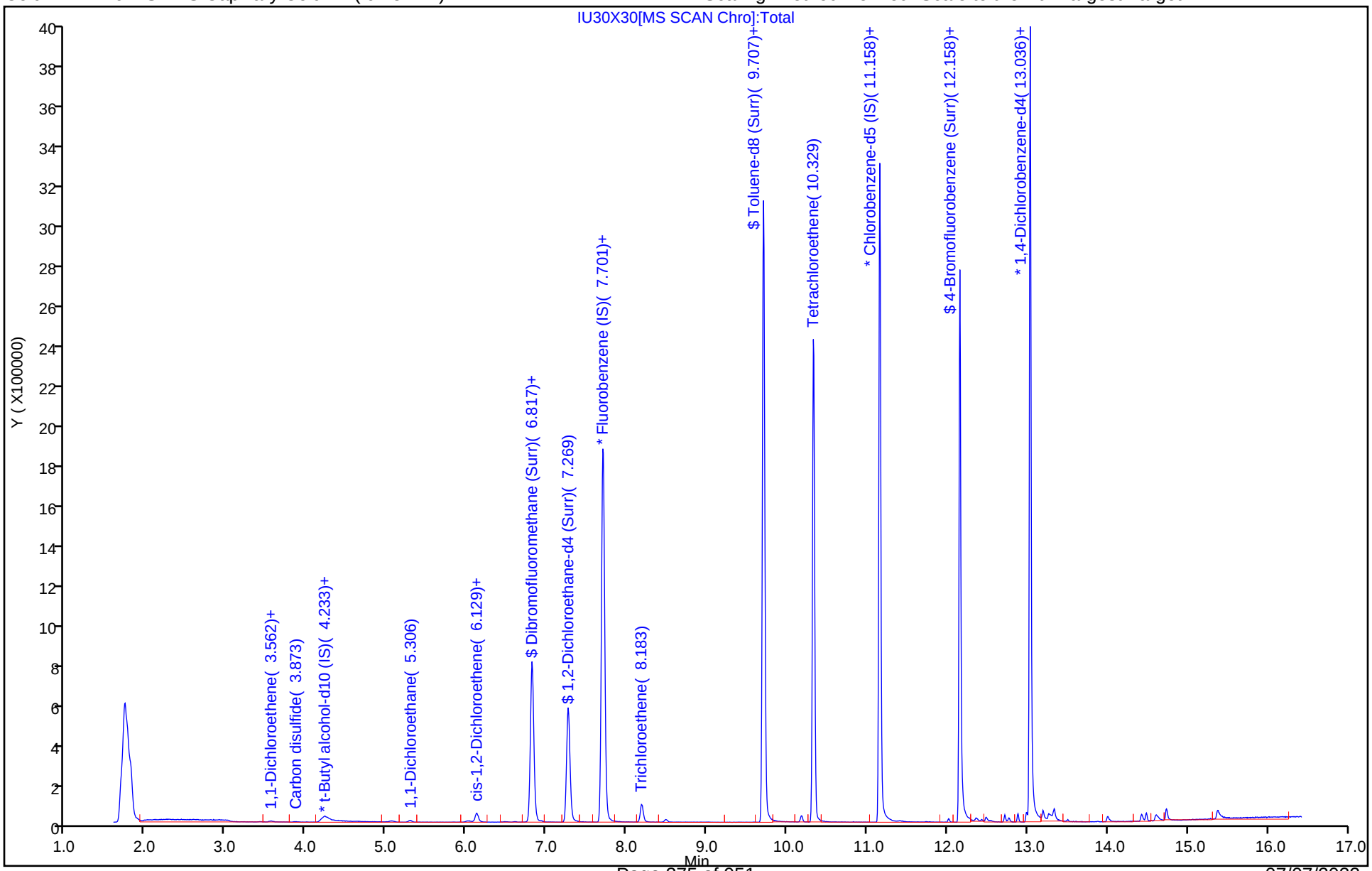
MSV_LLcentISS_00004 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 01-Jul-2022 13:44:15 Chrom Revision: 2.3 30-Jun-2022 19:48:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220630-60785.b\IU30X30.D				
Injection Date:	30-Jun-2022 19:54:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	410-88520-B-8 DL	Lab Sample ID:	410-88520-8	Worklist Smp#:	31
Client ID:	HD-COD-SW-17-0/1-0				
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\20220630-60785.b\IU30X30.D
Lims ID: 410-88520-B-8 DL
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 30-Jun-2022 19:54:30 ALS Bottle#: 30 Worklist Smp#: 31
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0060785-031
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220630-60785.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Jul-2022 13:44:15 Calib Date: 15-Mar-2022 03:22:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1644

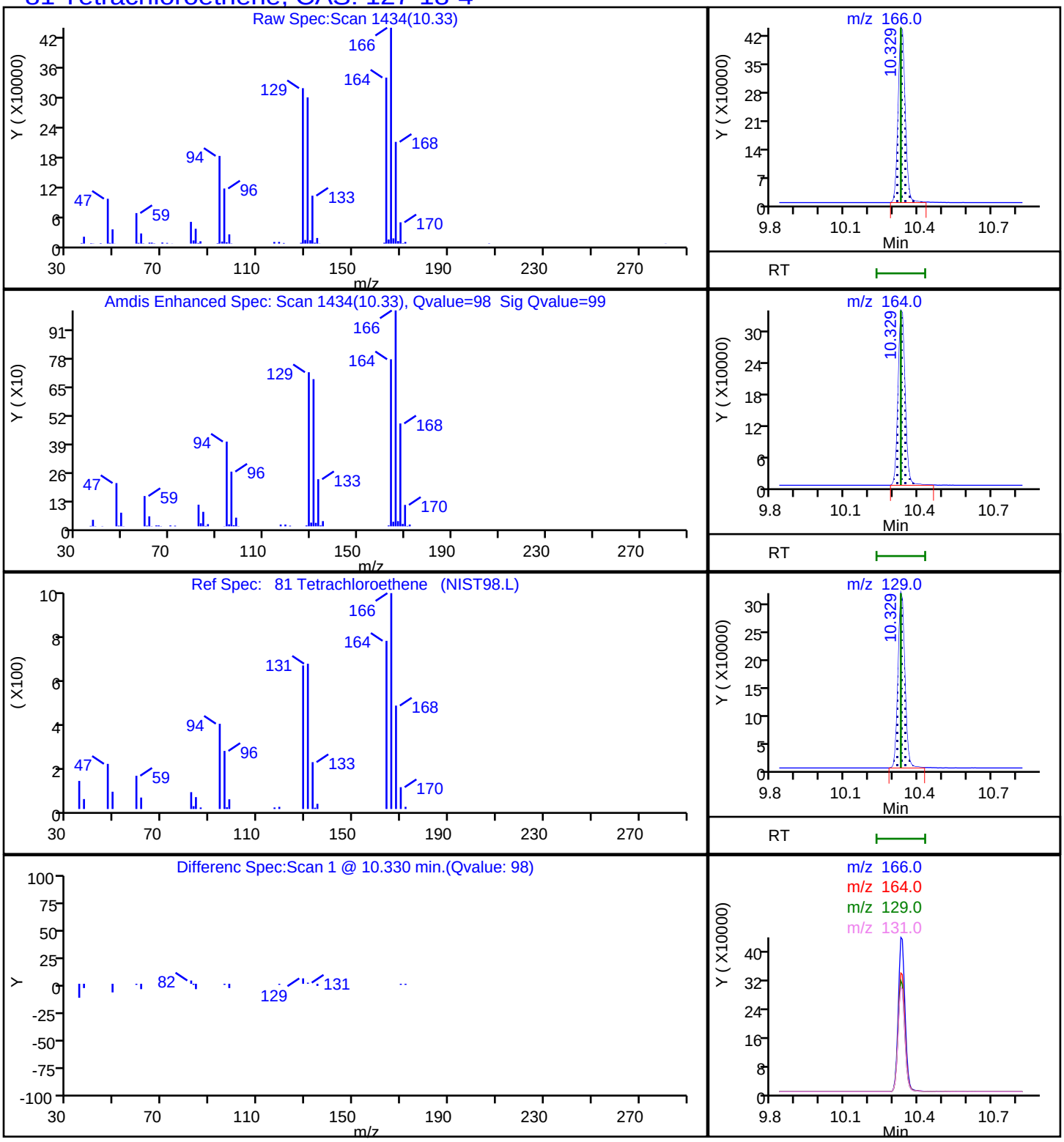
First Level Reviewer: innoonk Date: 01-Jul-2022 13:44:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	9.49	94.87
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.7	107.38
$ 75 Toluene-d8 (Surr)	10.0	10.6	105.84
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.64	96.43

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220630-60785.b\IU30X30.D				
Injection Date:	30-Jun-2022 19:54:30	Instrument ID:	19930		
Lims ID:	410-88520-B-8 DL	Lab Sample ID:	410-88520-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	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)	Detector	MS Quad		

81 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-26-0/1-0 Lab Sample ID: 410-88520-9

Matrix: Water Lab File ID: GU28X26.D

Analysis Method: 8260D Date Collected: 06/21/2022 11:15

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 19:19

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.: 270125 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	0.19	J	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	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	0.69		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	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.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-26-0/1-0 Lab Sample ID: 410-88520-9

Matrix: Water Lab File ID: GU28X26.D

Analysis Method: 8260D Date Collected: 06/21/2022 11:15

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 19:19

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.: 270125 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)	111		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)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X26.D
Lims ID: 410-88520-A-9
Client ID: HD-COD-SW-26-0/1-0
Sample Type: Client
Inject. Date: 28-Jun-2022 19:19:30 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060580-027
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Jun-2022 14:13:35 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:13:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.123				ND	U
8 Vinyl chloride	62		2.233				ND	
9 Bromomethane	94		2.562				ND	
10 Chloroethane	64		2.641				ND	
19 1,1-Dichloroethene	96	3.470	3.471	-0.001	95	7716	0.1864	
21 Acetone	43		3.532				ND	U
25 Carbon disulfide	76		3.763				ND	7
29 Methylene Chloride	84		4.123				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.196	4.190	0.006	70	140923	50.0	
33 Methyl tert-butyl ether	73		4.525				ND	
34 trans-1,2-Dichloroethene	96		4.525				ND	
37 1,1-Dichloroethane	63		5.190				ND	
41 2-Butanone (MEK)	43		6.001				ND	
42 cis-1,2-Dichloroethene	96	6.037	6.031	0.006	77	2572	0.0513	
49 Chlorobromomethane	128		6.360				ND	
51 Chloroform	83	6.513	6.513	0.000	92	54277	0.6878	
$ 52 Dibromofluoromethane (Surr)	113	6.726	6.726	0.000	94	519004	10.8	
53 1,1,1-Trichloroethane	97		6.738				ND	U
56 Carbon tetrachloride	117		6.939				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.177	0.000	33	111915	11.1	
60 Benzene	78		7.208				ND	
61 1,2-Dichloroethane	62		7.281				ND	
* 64 Fluorobenzene (IS)	96	7.616	7.616	0.000	99	1994406	10.0	
68 Trichloroethene	95	8.092	8.092	0.000	93	7968	0.1603	
70 1,2-Dichloropropane	63		8.427				ND	
76 Dichlorobromomethane	83		8.774				ND	7
81 cis-1,3-Dichloropropene	75		9.323				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.500				ND	
$ 83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	2014680	9.89	
84 Toluene	92		9.707				ND	7
96 trans-1,3-Dichloropropene	75		9.969				ND	
99 1,1,2-Trichloroethane	97		10.177				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
100 Tetrachloroethene	166	10.262	10.262	0.000	97	247203	4.19	
102 2-Hexanone	43		10.396				ND	
104 Chlorodibromomethane	129		10.555				ND	
105 Ethylene Dibromide	107		10.664				ND	
* 106 Chlorobenzene-d5 (IS)	117	11.097	11.097	0.000	84	1590715	10.0	
108 Chlorobenzene	112		11.122				ND	
110 1,1,1,2-Tetrachloroethane	131		11.207				ND	
111 Ethylbenzene	91		11.213				ND	7
S 109 Xylenes, Total	106		11.245				ND	7
112 m-Xylene & p-Xylene	106		11.323				ND	7
113 o-Xylene	106		11.652				ND	
114 Styrene	104		11.670				ND	
115 Bromoform	173		11.829				ND	
$ 119 4-Bromofluorobenzene (Surr)	95	12.097	12.097	0.000	93	701185	9.12	
120 1,1,2,2-Tetrachloroethane	83		12.201				ND	
* 134 1,4-Dichlorobenzene-d4	152	12.975	12.975	0.000	94	871178	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_29_826ISS_00034 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 29-Jun-2022 14:13:35 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X26.D				
Injection Date:	28-Jun-2022 19:19:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-88520-A-9	Lab Sample ID:	410-88520-9	Worklist Smp#:	27
Client ID:	HD-COD-SW-26-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X26.D				
Lims ID:	410-88520-A-9				
Client ID:	HD-COD-SW-26-0/1-0				
Sample Type:	Client				
Inject. Date:	28-Jun-2022 19:19:30	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0060580-027				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	29-Jun-2022 14:13:35	Calib Date:	10-Jan-2022 23:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1674				

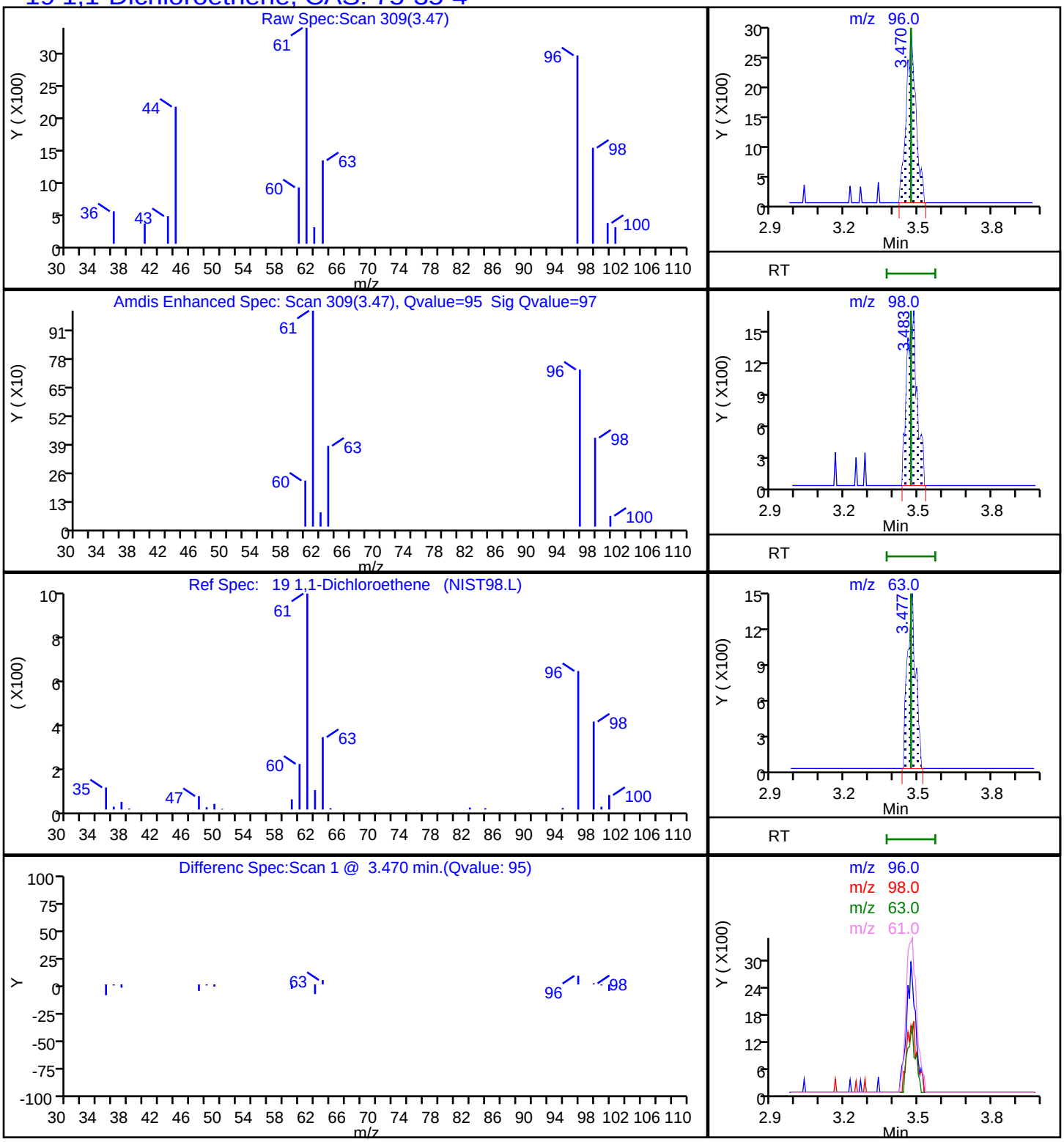
First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:13:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.8	108.43
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	11.1	110.62
$ 83 Toluene-d8 (Surr)	10.0	9.89	98.91
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.12	91.23

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X26.D				
Injection Date:	28-Jun-2022 19:19:30	Instrument ID:	16334		
Lims ID:	410-88520-A-9	Lab Sample ID:	410-88520-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

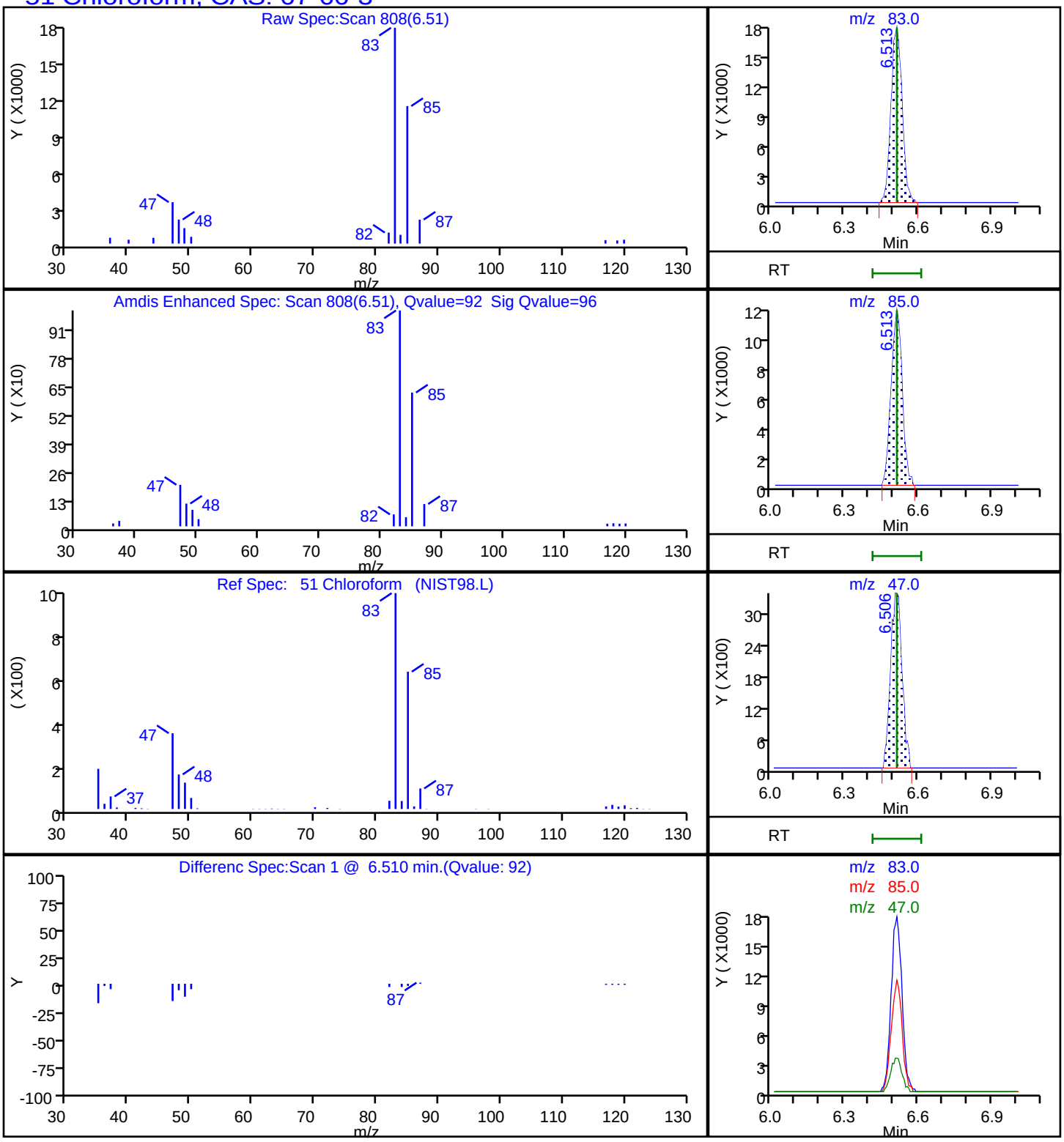
19 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X26.D				
Injection Date:	28-Jun-2022 19:19:30	Instrument ID:	16334		
Lims ID:	410-88520-A-9	Lab Sample ID:	410-88520-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

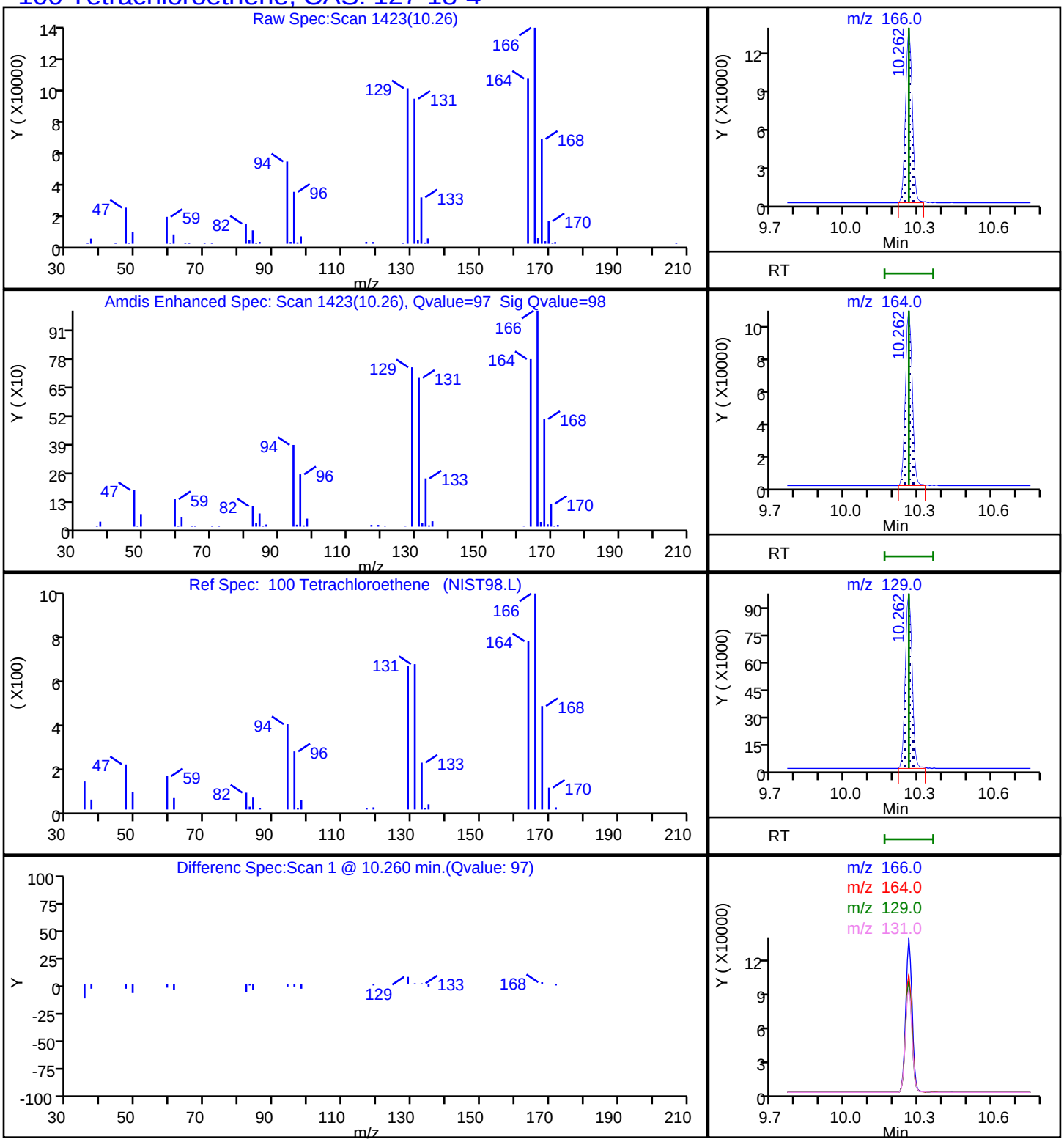
51 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X26.D				
Injection Date:	28-Jun-2022 19:19:30	Instrument ID:	16334		
Lims ID:	410-88520-A-9	Lab Sample ID:	410-88520-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

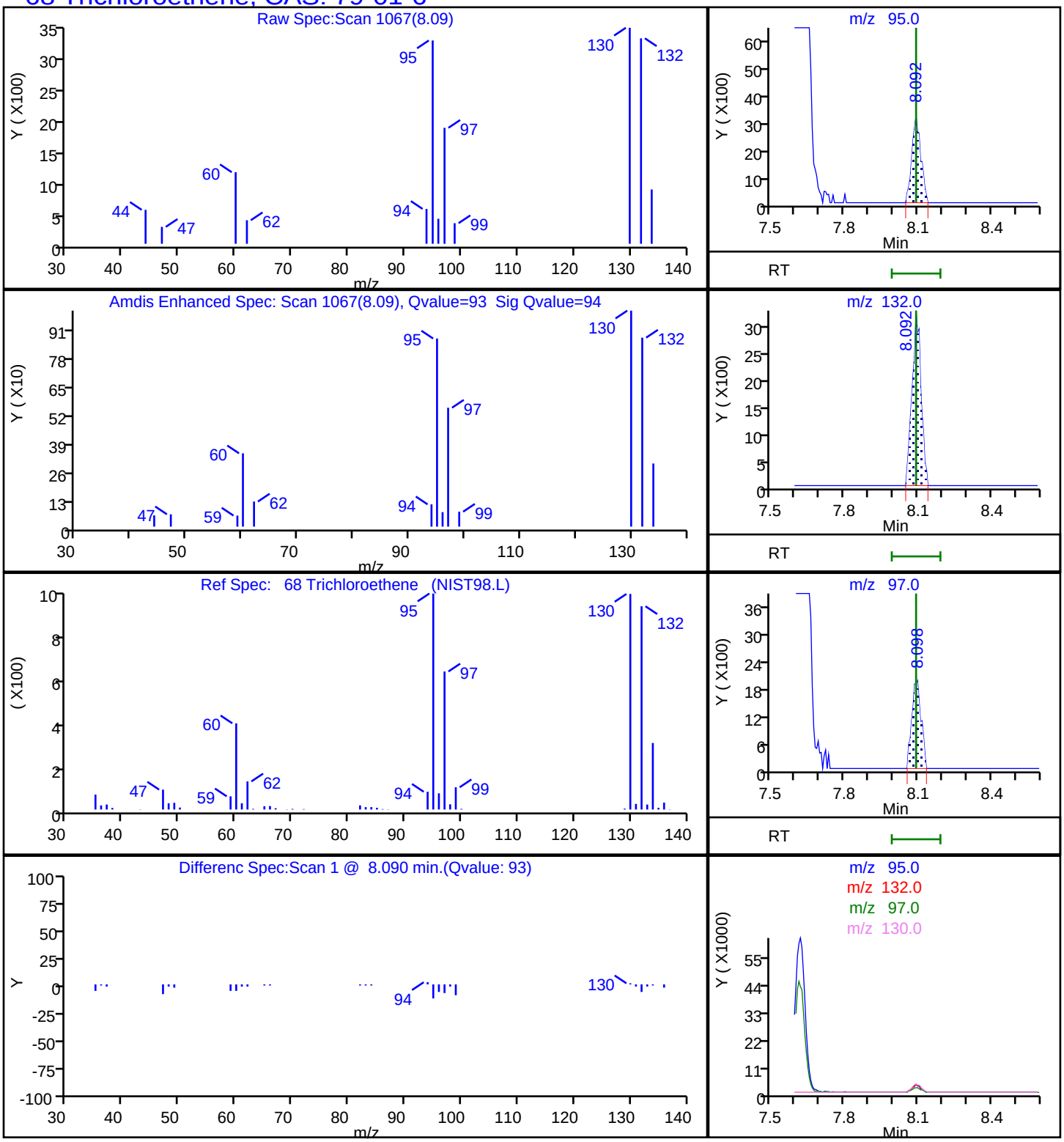
100 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X26.D				
Injection Date:	28-Jun-2022 19:19:30	Instrument ID:	16334		
Lims ID:	410-88520-A-9	Lab Sample ID:	410-88520-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



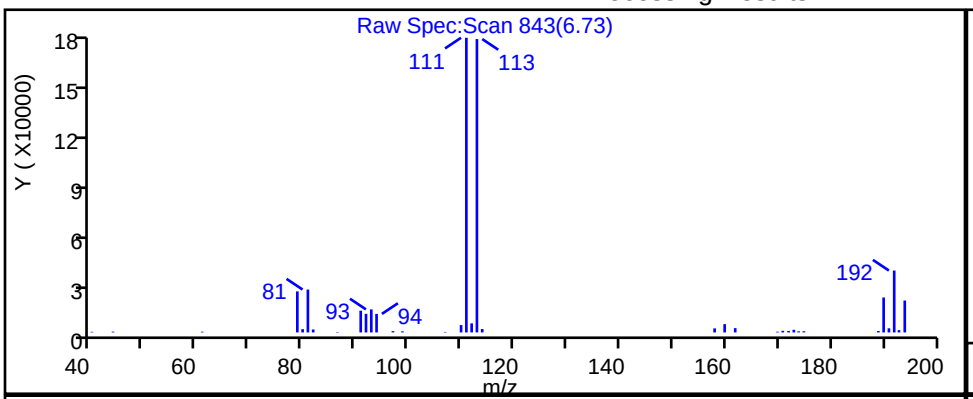
User Disabled Compound Report

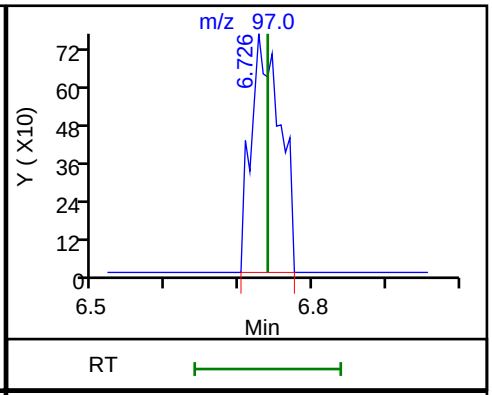
Eurofins Lancaster Laboratories Environment Testing, LLC

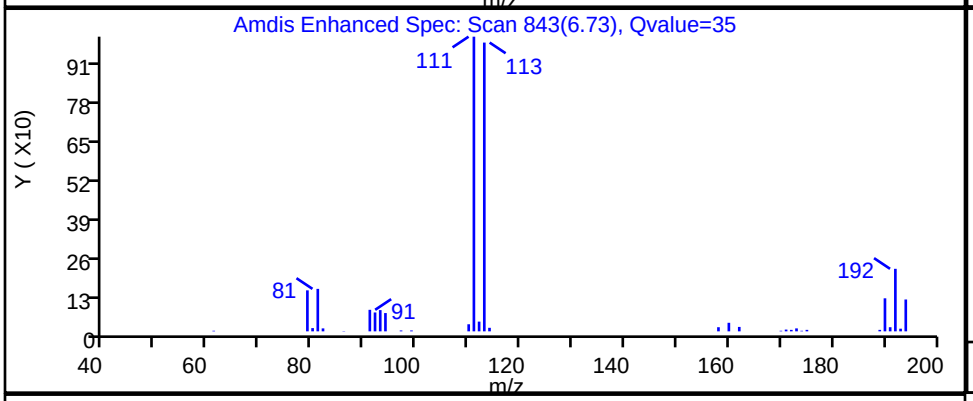
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X26.D				
Injection Date:	28-Jun-2022 19:19:30	Instrument ID:	16334		
Lims ID:	410-88520-A-9	Lab Sample ID:	410-88520-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

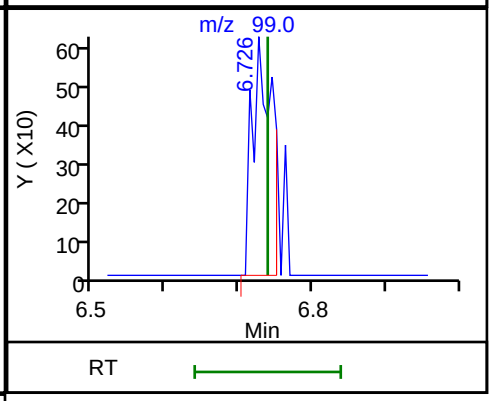
53 1,1,1-Trichloroethane, CAS: 71-55-6

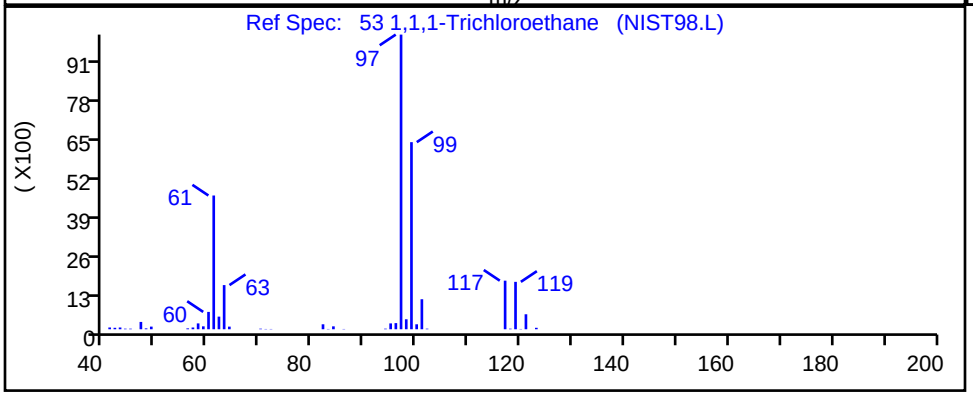
Processing Results











RT	Mass	Response	Amount
6.73	97.00	2106	0.031223
6.73	99.00	1151	

Reviewer: kaewrungrueangp, 29-Jun-2022 14:13:23

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

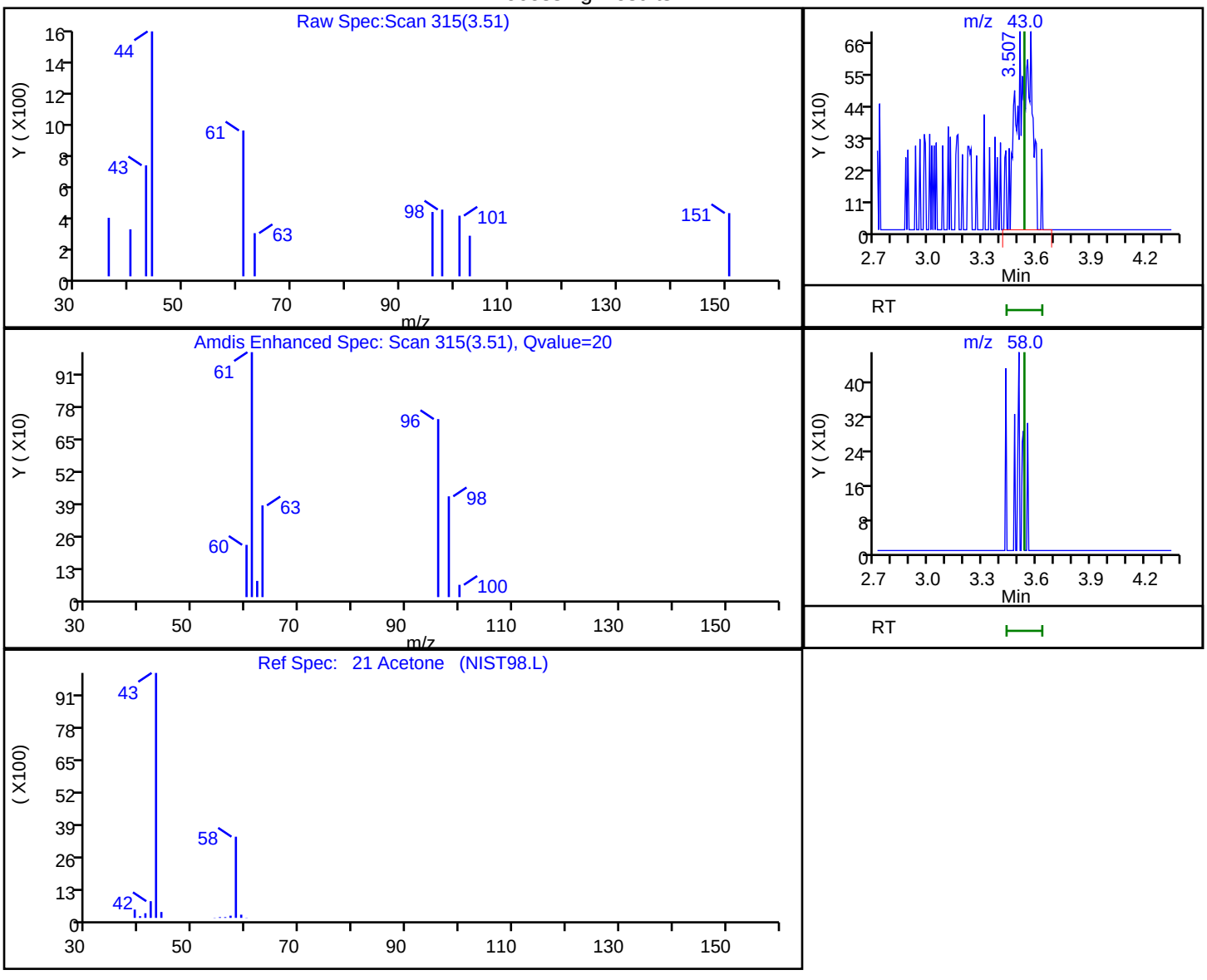
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X26.D				
Injection Date:	28-Jun-2022 19:19:30	Instrument ID:	16334		
Lims ID:	410-88520-A-9	Lab Sample ID:	410-88520-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.51	43.00	4124	0.636627
3.53	58.00	0	

Reviewer: kaewrungrueangp, 29-Jun-2022 14:13:15

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

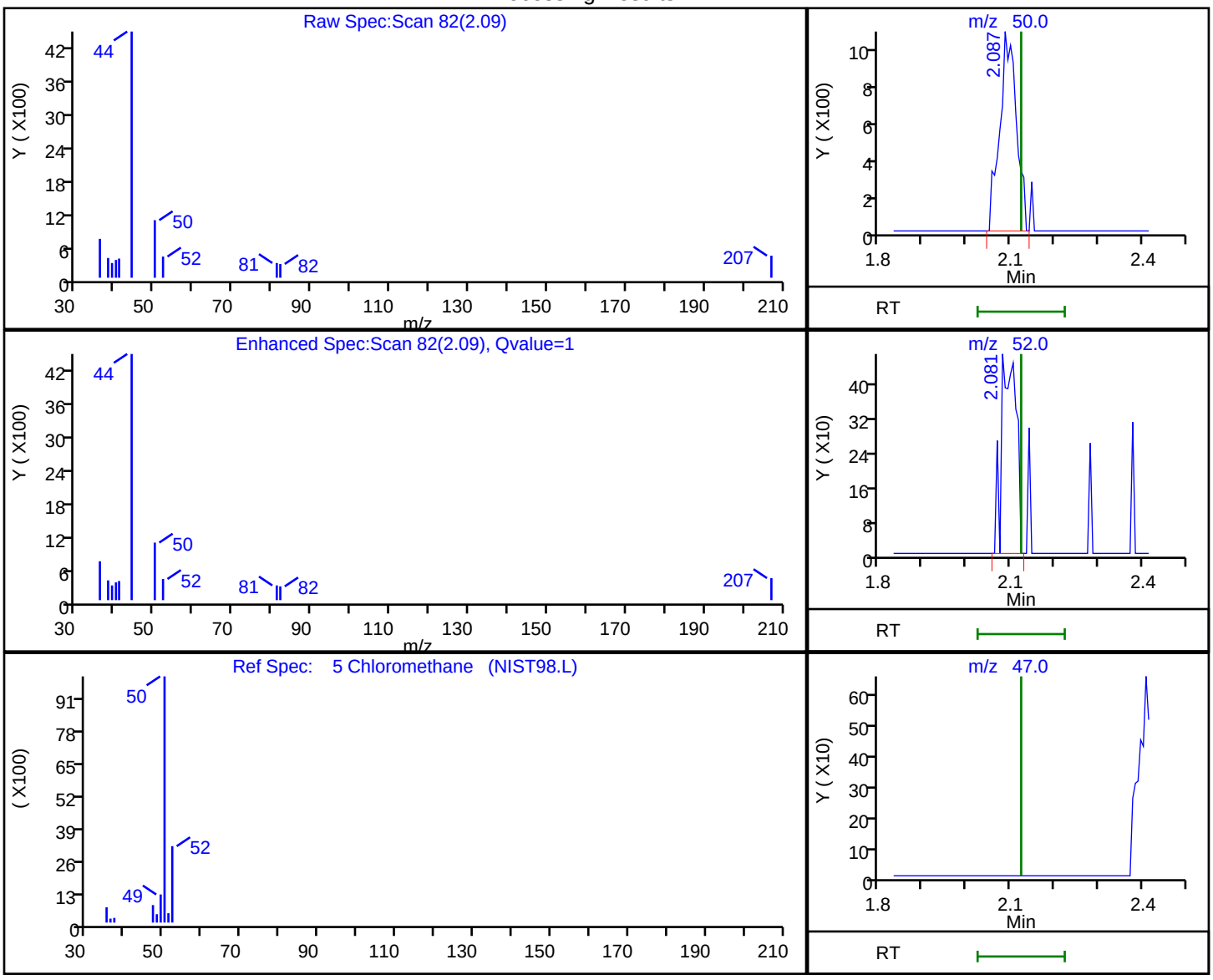
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X26.D				
Injection Date:	28-Jun-2022 19:19:30	Instrument ID:	16334		
Lims ID:	410-88520-A-9	Lab Sample ID:	410-88520-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

5 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
2.09	50.00	2781	0.050304
2.08	52.00	1100	
2.12	47.00	0	

Reviewer: kaewrungrueangp, 29-Jun-2022 14:13:11

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.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-27-0/1-0 Lab Sample ID: 410-88520-10

Matrix: Water Lab File ID: GU28X27.D

Analysis Method: 8260D Date Collected: 06/21/2022 11:45

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 19:41

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 270125 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.0	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.090	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	0.086	J	0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-27-0/1-0 Lab Sample ID: 410-88520-10

Matrix: Water Lab File ID: GU28X27.D

Analysis Method: 8260D Date Collected: 06/21/2022 11:45

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 19:41

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 270125 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	0.10	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)	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\16334\20220628-60580.b\GU28X27.D
Lims ID: 410-88520-A-10
Client ID: HD-COD-SW-27-0/1-0
Sample Type: Client
Inject. Date: 28-Jun-2022 19:41:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060580-028
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Jun-2022 14:14:10 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:14:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.123				ND	U
8 Vinyl chloride	62		2.233				ND	
9 Bromomethane	94		2.562				ND	
10 Chloroethane	64		2.641				ND	
19 1,1-Dichloroethene	96		3.471				ND	7
21 Acetone	43	3.531	3.532	-0.001	69	16989	2.04	
25 Carbon disulfide	76	3.757	3.763	-0.006	98	3847	0.0369	
29 Methylene Chloride	84		4.123				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.196	4.190	0.006	70	181171	50.0	
33 Methyl tert-butyl ether	73		4.525				ND	
34 trans-1,2-Dichloroethene	96		4.525				ND	
37 1,1-Dichloroethane	63		5.190				ND	
41 2-Butanone (MEK)	43	6.019	6.001	0.018	99	6651	0.4068	
42 cis-1,2-Dichloroethene	96	6.025	6.031	-0.006	81	4501	0.0901	
49 Chlorobromomethane	128		6.360				ND	
51 Chloroform	83	6.506	6.513	-0.007	88	5352	0.0680	
$ 52 Dibromofluoromethane (Surr)	113	6.726	6.726	0.000	94	522761	11.0	
53 1,1,1-Trichloroethane	97		6.738				ND	
56 Carbon tetrachloride	117		6.939				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.171	7.177	-0.006	30	111219	11.0	
60 Benzene	78		7.208				ND	
61 1,2-Dichloroethane	62		7.281				ND	
* 64 Fluorobenzene (IS)	96	7.610	7.616	-0.006	99	1988629	10.0	
68 Trichloroethene	95	8.092	8.092	0.000	95	4989	0.1007	
70 1,2-Dichloropropane	63		8.427				ND	
76 Dichlorobromomethane	83		8.774				ND	7
81 cis-1,3-Dichloropropene	75		9.323				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.500				ND	7
$ 83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	2015403	9.92	
84 Toluene	92	9.713	9.707	0.006	98	10828	0.0856	
96 trans-1,3-Dichloropropene	75		9.969				ND	
99 1,1,2-Trichloroethane	97		10.177				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
100 Tetrachloroethene	166	10.262	10.262	0.000	93	4270	0.0726	
102 2-Hexanone	43		10.396				ND	7
104 Chlorodibromomethane	129		10.555				ND	
105 Ethylene Dibromide	107		10.664				ND	
* 106 Chlorobenzene-d5 (IS)	117	11.097	11.097	0.000	84	1587468	10.0	
108 Chlorobenzene	112		11.122				ND	
110 1,1,1,2-Tetrachloroethane	131		11.207				ND	
111 Ethylbenzene	91		11.213				ND	7
S 109 Xylenes, Total	106		11.245				ND	7
112 m-Xylene & p-Xylene	106	11.323	11.323	0.000	97	4538	0.0477	
113 o-Xylene	106		11.652				ND	7
114 Styrene	104		11.670				ND	
115 Bromoform	173		11.829				ND	
$ 119 4-Bromofluorobenzene (Surr)	95	12.097	12.097	0.000	94	711139	9.27	
120 1,1,2,2-Tetrachloroethane	83		12.201				ND	
* 134 1,4-Dichlorobenzene-d4	152	12.975	12.975	0.000	94	882506	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

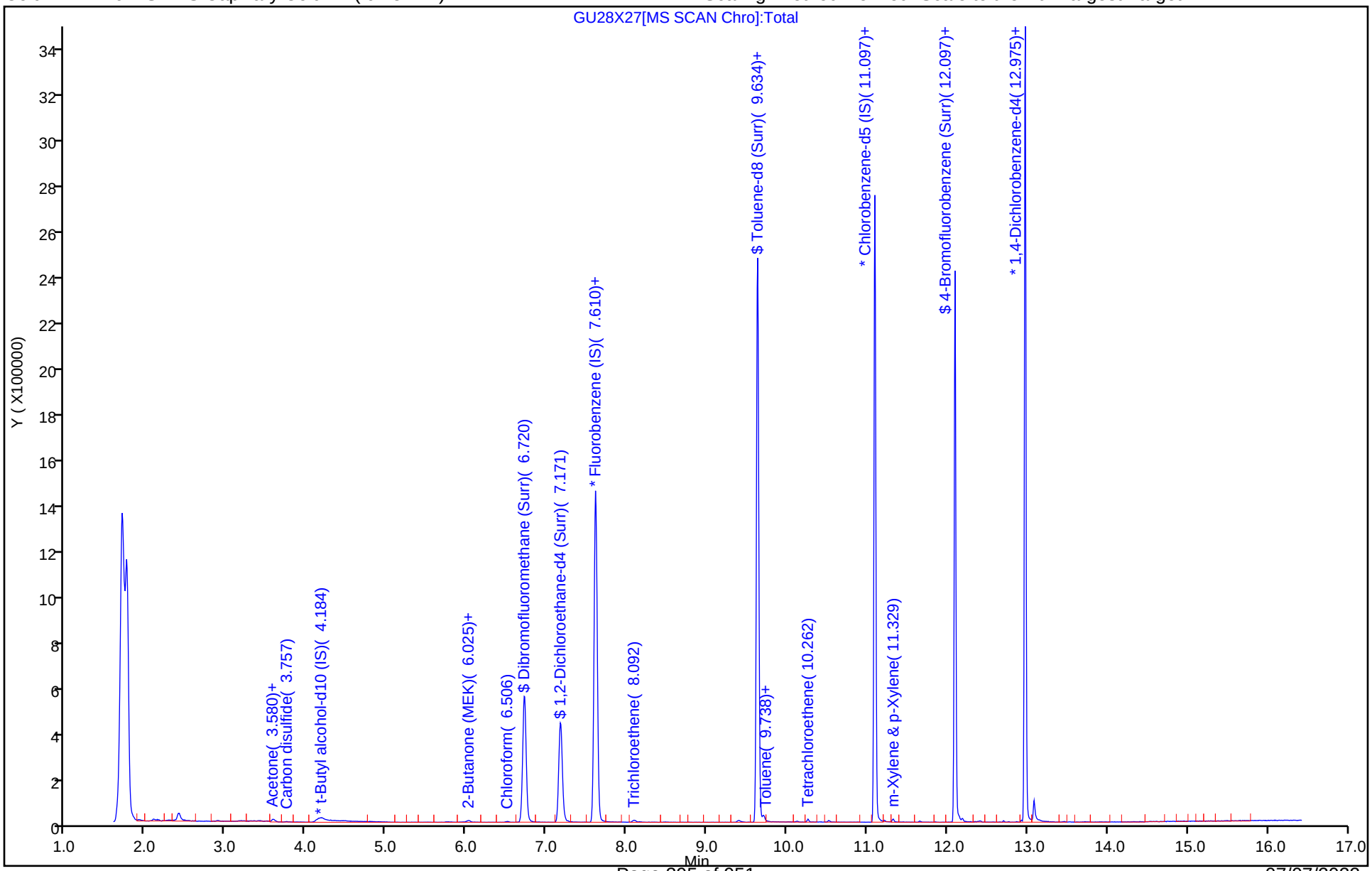
MSV_29_826ISS_00034 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 29-Jun-2022 14:14:11 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X27.D				
Injection Date:	28-Jun-2022 19:41:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-88520-A-10	Lab Sample ID:	410-88520-10	Worklist Smp#:	28
Client ID:	HD-COD-SW-27-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X27.D				
Lims ID:	410-88520-A-10				
Client ID:	HD-COD-SW-27-0/1-0				
Sample Type:	Client				
Inject. Date:	28-Jun-2022 19:41:30	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0060580-028				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	29-Jun-2022 14:14:10	Calib Date:	10-Jan-2022 23:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1674				

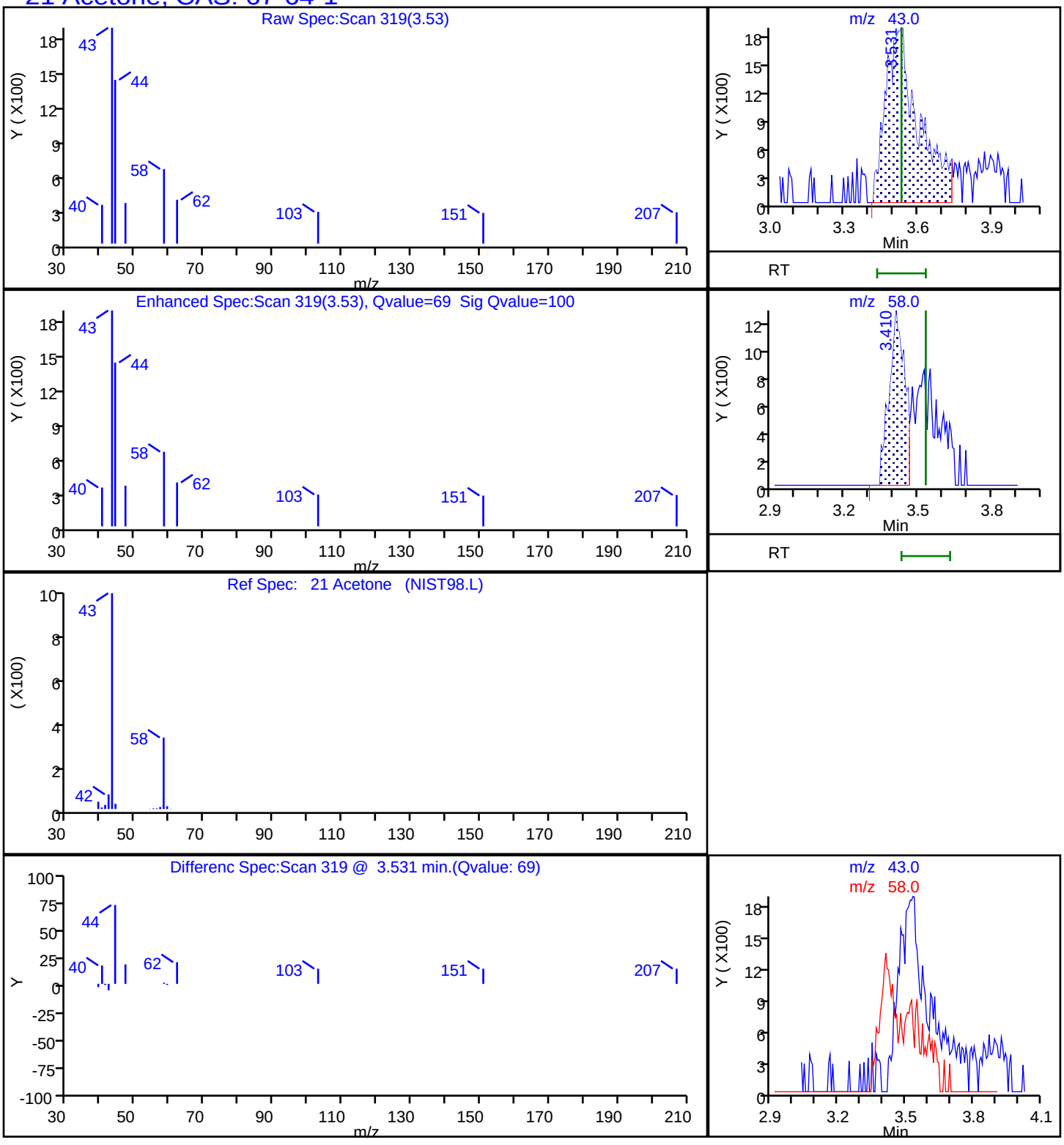
First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:14:10

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	11.0	109.53
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	11.0	110.25
$ 83 Toluene-d8 (Surr)	10.0	9.92	99.15
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.27	92.72

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X27.D				
Injection Date:	28-Jun-2022 19:41:30	Instrument ID:	16334		
Lims ID:	410-88520-A-10	Lab Sample ID:	410-88520-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

21 Acetone, CAS: 67-64-1

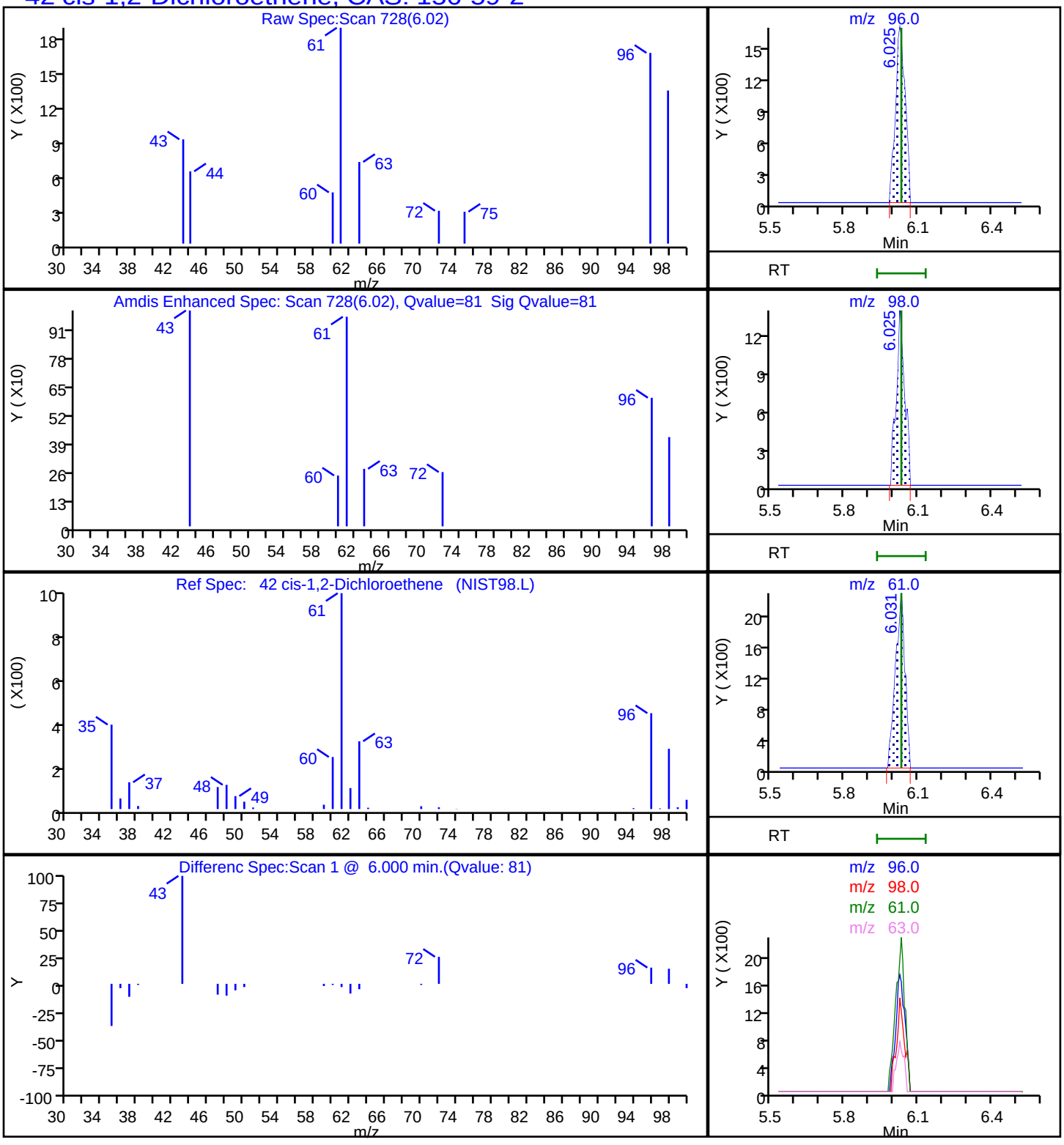


Report Date: 29-Jun-2022 14:14:11 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X27.D				
Injection Date:	28-Jun-2022 19:41:30	Instrument ID:	16334		
Lims ID:	410-88520-A-10	Lab Sample ID:	410-88520-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

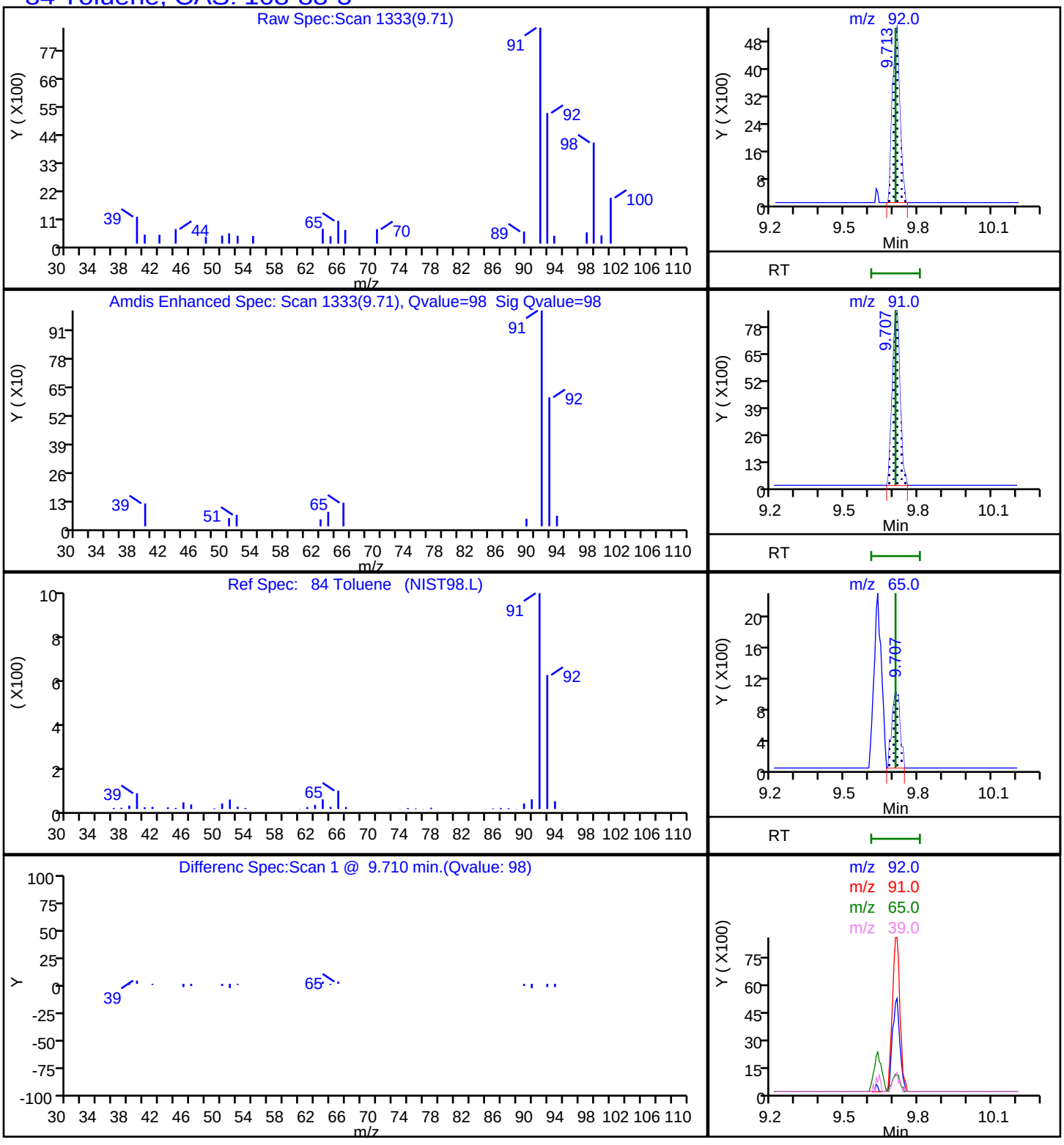
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X27.D				
Injection Date:	28-Jun-2022 19:41:30	Instrument ID:	16334		
Lims ID:	410-88520-A-10	Lab Sample ID:	410-88520-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

84 Toluene, CAS: 108-88-3

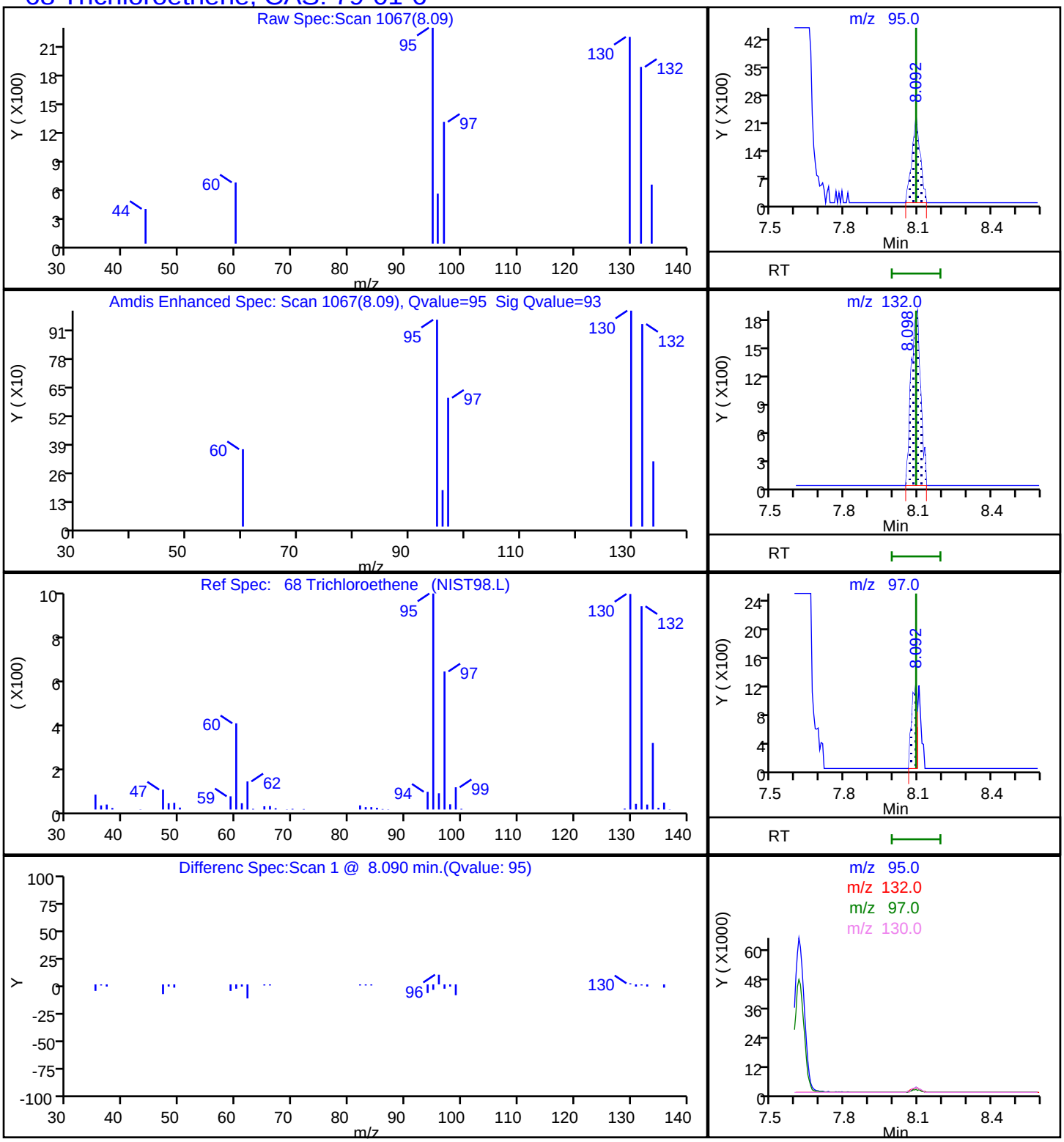


Report Date: 29-Jun-2022 14:14:11 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X27.D				
Injection Date:	28-Jun-2022 19:41:30	Instrument ID:	16334		
Lims ID:	410-88520-A-10	Lab Sample ID:	410-88520-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



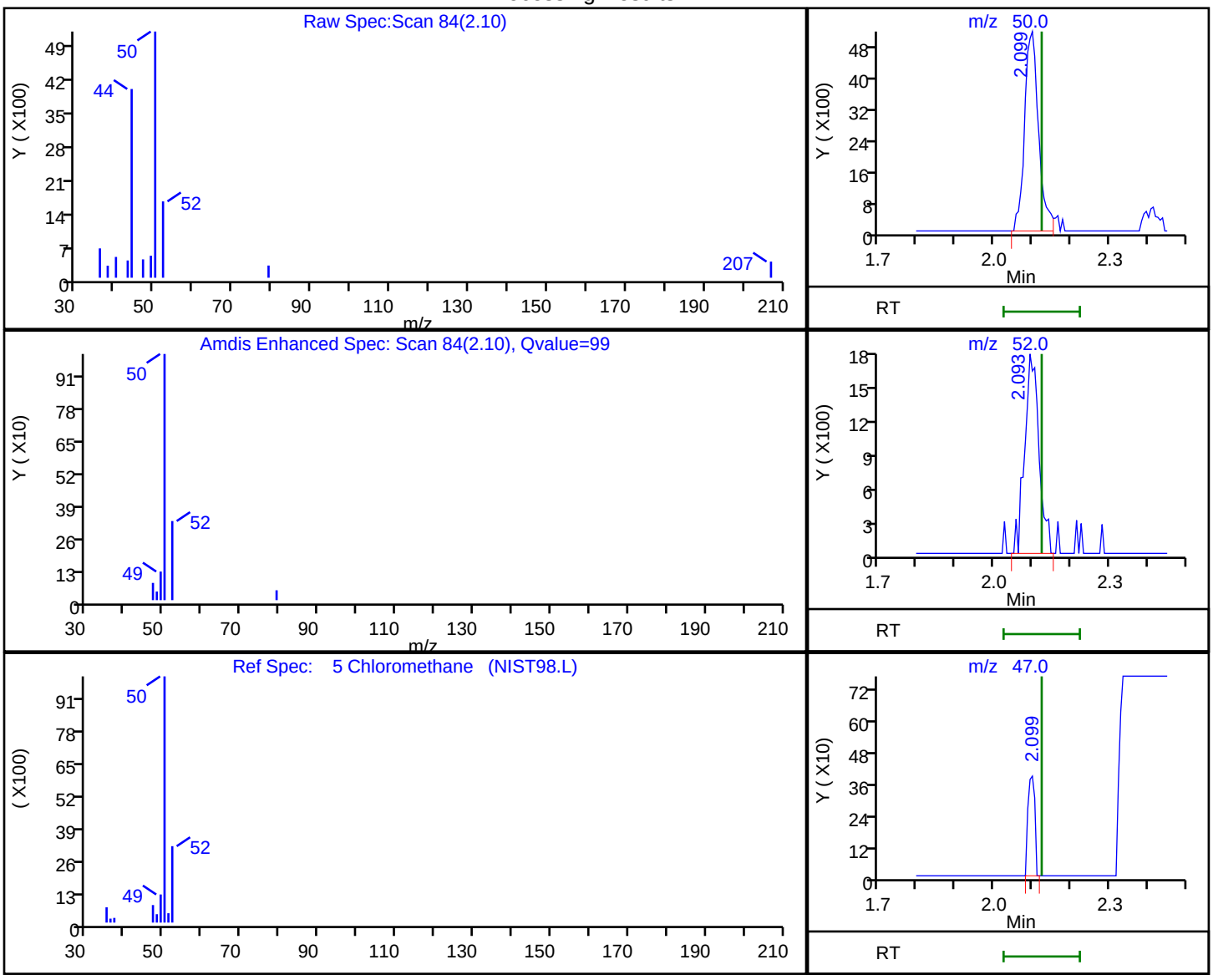
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X27.D				
Injection Date:	28-Jun-2022 19:41:30	Instrument ID:	16334		
Lims ID:	410-88520-A-10	Lab Sample ID:	410-88520-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

5 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
2.10	50.00	13131	0.238211
2.09	52.00	4555	
2.10	47.00	480	

Reviewer: kaewrungrueangp, 29-Jun-2022 14:13:44

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.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-28-0/1-0 Lab Sample ID: 410-88520-11

Matrix: Water Lab File ID: GU28X28.D

Analysis Method: 8260D Date Collected: 06/21/2022 13:40

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 20:03

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.: 270125 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	3.0	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.10	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.24	J	0.50	0.20
108-88-3	Toluene	0.11	J	0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-28-0/1-0 Lab Sample ID: 410-88520-11

Matrix: Water Lab File ID: GU28X28.D

Analysis Method: 8260D Date Collected: 06/21/2022 13:40

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 20:03

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.: 270125 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	0.11	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		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\16334\20220628-60580.b\GU28X28.D
Lims ID: 410-88520-A-11
Client ID: HD-COD-SW-28-0/1-0
Sample Type: Client
Inject. Date: 28-Jun-2022 20:03:30 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060580-029
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Jun-2022 14:14:54 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:14:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.123				ND	U
8 Vinyl chloride	62		2.233				ND	
9 Bromomethane	94		2.562				ND	
10 Chloroethane	64		2.641				ND	
19 1,1-Dichloroethene	96		3.471				ND	7
21 Acetone	43	3.525	3.532	-0.007	82	22610	3.01	
25 Carbon disulfide	76		3.763				ND	7
29 Methylene Chloride	84		4.123				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.184	4.190	-0.006	70	163328	50.0	
33 Methyl tert-butyl ether	73		4.525				ND	
34 trans-1,2-Dichloroethene	96		4.525				ND	
37 1,1-Dichloroethane	63		5.190				ND	
41 2-Butanone (MEK)	43	6.013	6.001	0.012	98	9403	0.6379	
42 cis-1,2-Dichloroethene	96	6.025	6.031	-0.006	77	4990	0.1003	a
49 Chlorobromomethane	128		6.360				ND	
51 Chloroform	83	6.500	6.513	-0.013	88	6333	0.0809	a
$ 52 Dibromofluoromethane (Surr)	113	6.732	6.726	0.006	94	519913	10.9	
53 1,1,1-Trichloroethane	97		6.738				ND	
56 Carbon tetrachloride	117		6.939				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.177	0.000	45	112101	11.2	
60 Benzene	78		7.208				ND	
61 1,2-Dichloroethane	62		7.281				ND	
* 64 Fluorobenzene (IS)	96	7.616	7.616	0.000	99	1979477	10.0	
68 Trichloroethene	95	8.098	8.092	0.006	93	5367	0.1088	
70 1,2-Dichloropropane	63		8.427				ND	
76 Dichlorobromomethane	83		8.774				ND	
81 cis-1,3-Dichloropropene	75		9.323				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.500				ND	7
$ 83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	2020231	10.0	
84 Toluene	92	9.713	9.707	0.006	99	13786	0.1096	
96 trans-1,3-Dichloropropene	75		9.969				ND	
99 1,1,2-Trichloroethane	97		10.177				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
100 Tetrachloroethene	166	10.262	10.262	0.000	95	14253	0.2435	
102 2-Hexanone	43		10.396				ND	7
104 Chlorodibromomethane	129		10.555				ND	
105 Ethylene Dibromide	107		10.664				ND	
* 106 Chlorobenzene-d5 (IS)	117	11.097	11.097	0.000	84	1579170	10.0	
108 Chlorobenzene	112		11.122				ND	
110 1,1,1,2-Tetrachloroethane	131		11.207				ND	
111 Ethylbenzene	91		11.213				ND	7
S 109 Xylenes, Total	106		11.245				ND	7
112 m-Xylene & p-Xylene	106	11.329	11.323	0.006	98	5559	0.0587	
113 o-Xylene	106		11.652				ND	7
114 Styrene	104		11.670				ND	
115 Bromoform	173		11.829				ND	
$ 119 4-Bromofluorobenzene (Surr)	95	12.097	12.097	0.000	92	706301	9.26	
120 1,1,2,2-Tetrachloroethane	83		12.201				ND	
* 134 1,4-Dichlorobenzene-d4	152	12.975	12.975	0.000	94	871423	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

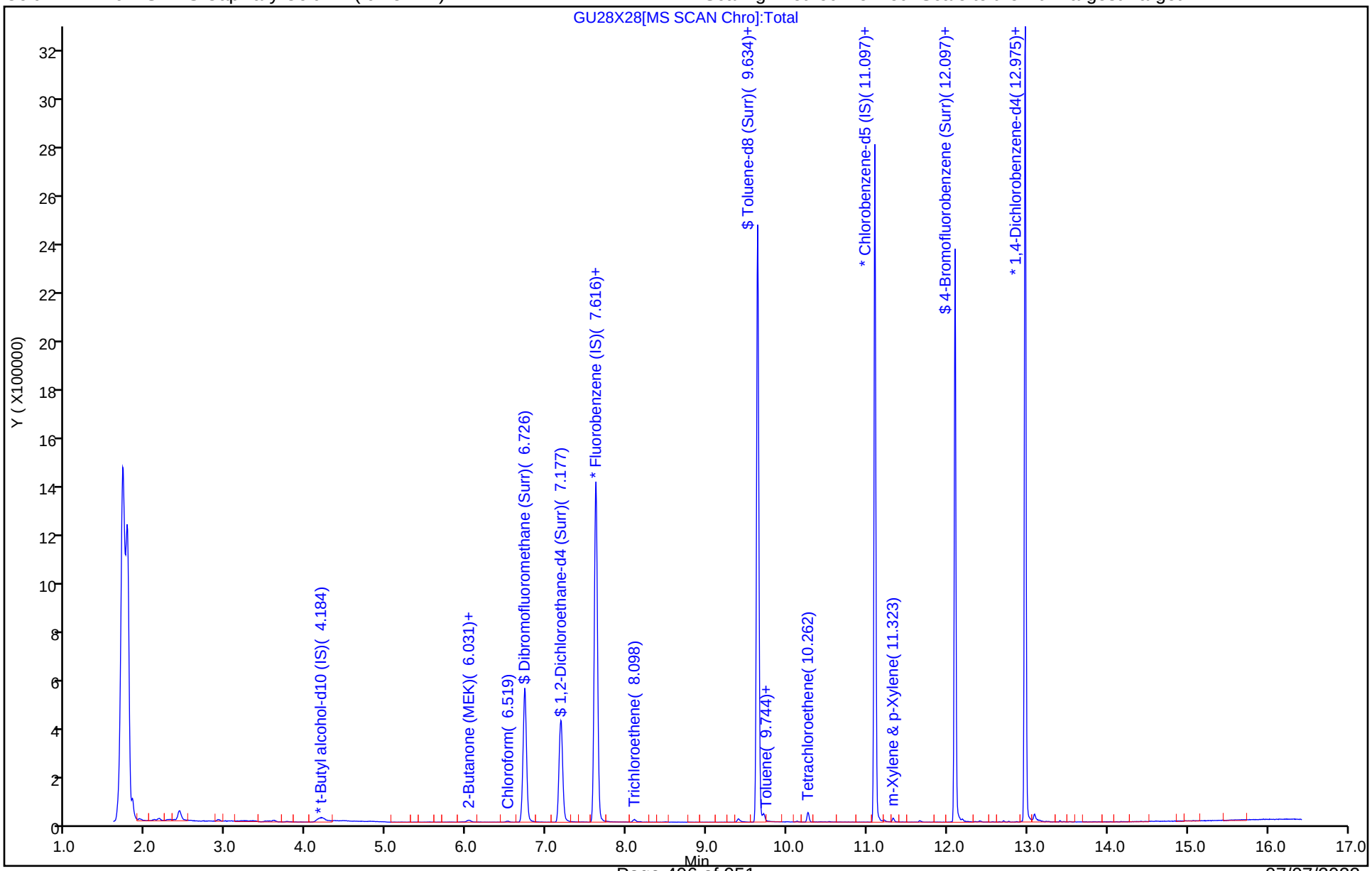
MSV_29_826ISS_00034 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 29-Jun-2022 14:14:54 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X28.D				
Injection Date:	28-Jun-2022 20:03:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-88520-A-11	Lab Sample ID:	410-88520-11	Worklist Smp#:	29
Client ID:	HD-COD-SW-28-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X28.D				
Lims ID:	410-88520-A-11				
Client ID:	HD-COD-SW-28-0/1-0				
Sample Type:	Client				
Inject. Date:	28-Jun-2022 20:03:30	ALS Bottle#:	28	Worklist Smp#:	29
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0060580-029				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	29-Jun-2022 14:14:54	Calib Date:	10-Jan-2022 23:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1674				

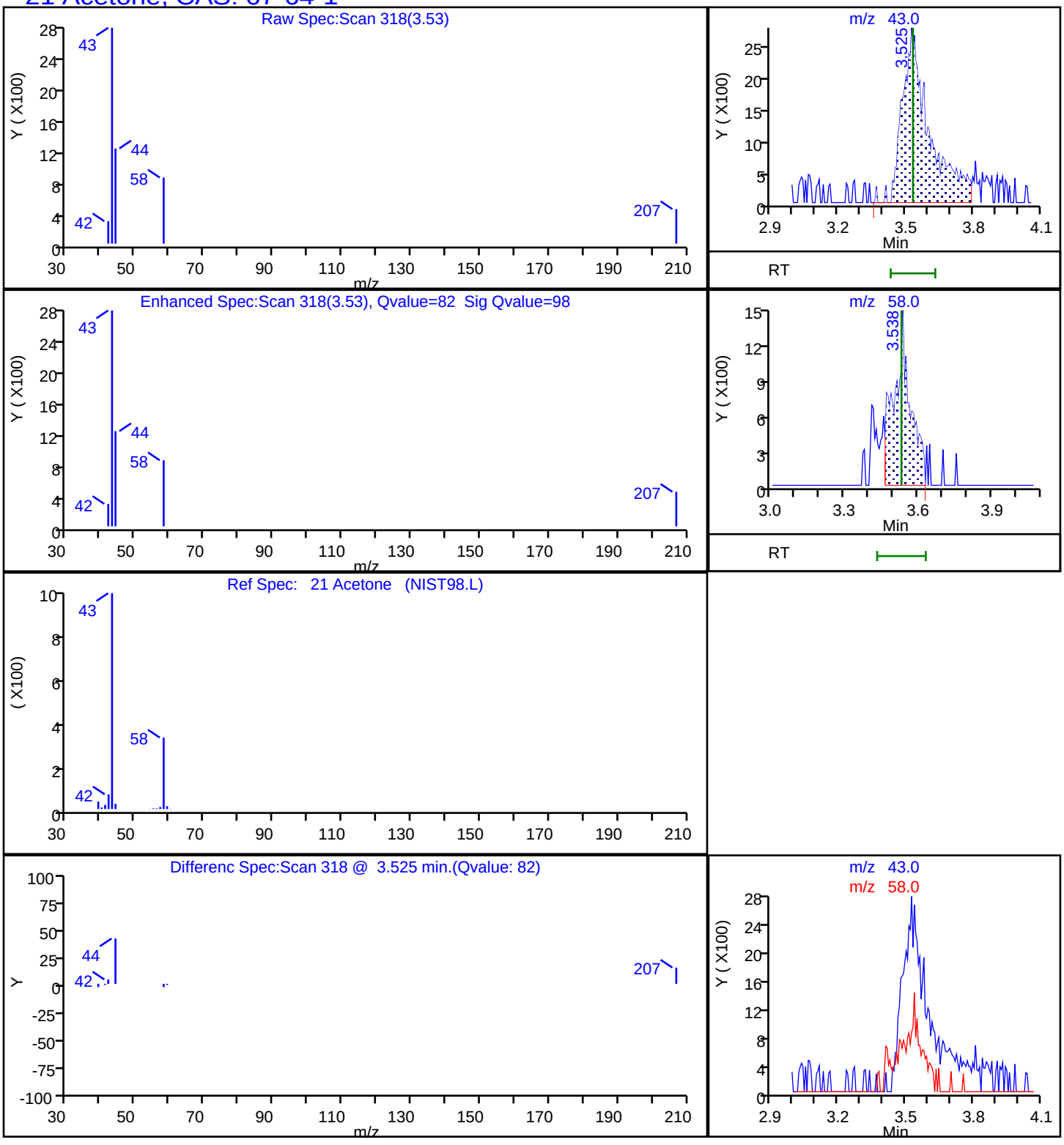
First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:14:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.9	109.43
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	11.2	111.64
$ 83 Toluene-d8 (Surr)	10.0	10.0	99.91
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.26	92.57

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X28.D				
Injection Date:	28-Jun-2022 20:03:30	Instrument ID:	16334		
Lims ID:	410-88520-A-11	Lab Sample ID:	410-88520-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	28	Worklist Smp#:	29
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

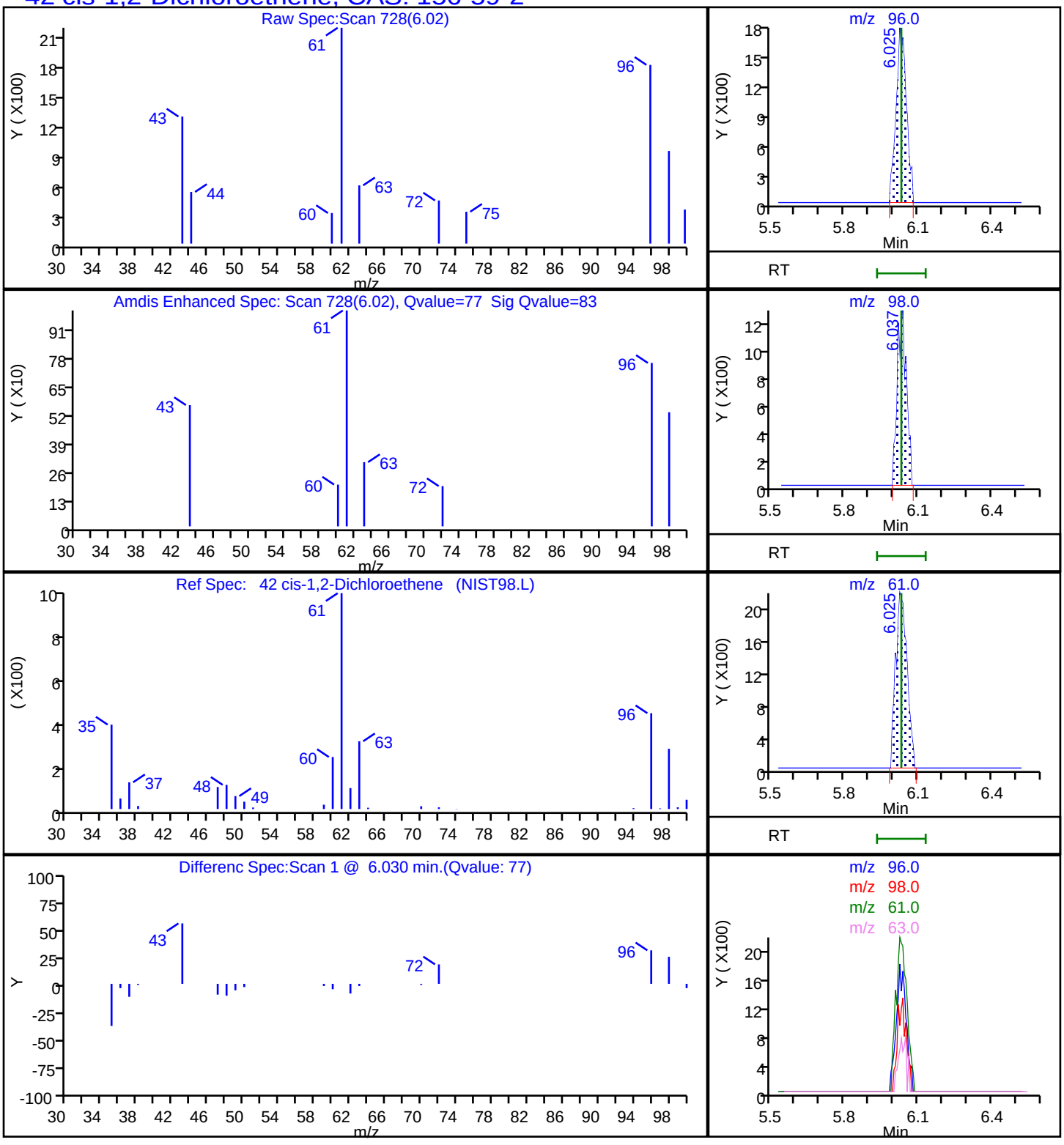
21 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X28.D				
Injection Date:	28-Jun-2022 20:03:30	Instrument ID:	16334		
Lims ID:	410-88520-A-11	Lab Sample ID:	410-88520-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	28	Worklist Smp#:	29
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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

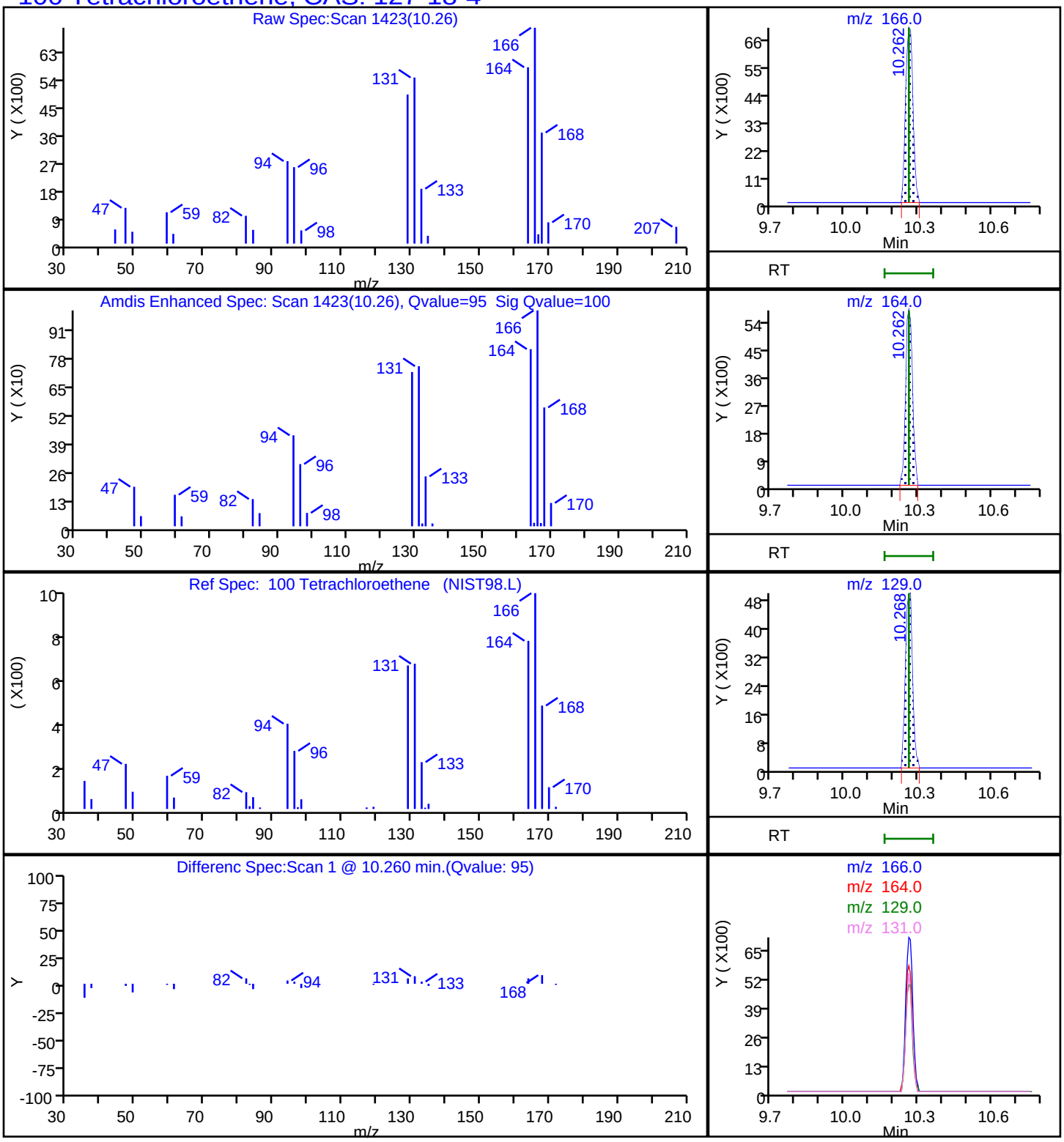


Report Date: 29-Jun-2022 14:14:55 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X28.D				
Injection Date:	28-Jun-2022 20:03:30	Instrument ID:	16334		
Lims ID:	410-88520-A-11	Lab Sample ID:	410-88520-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	28	Worklist Smp#:	29
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

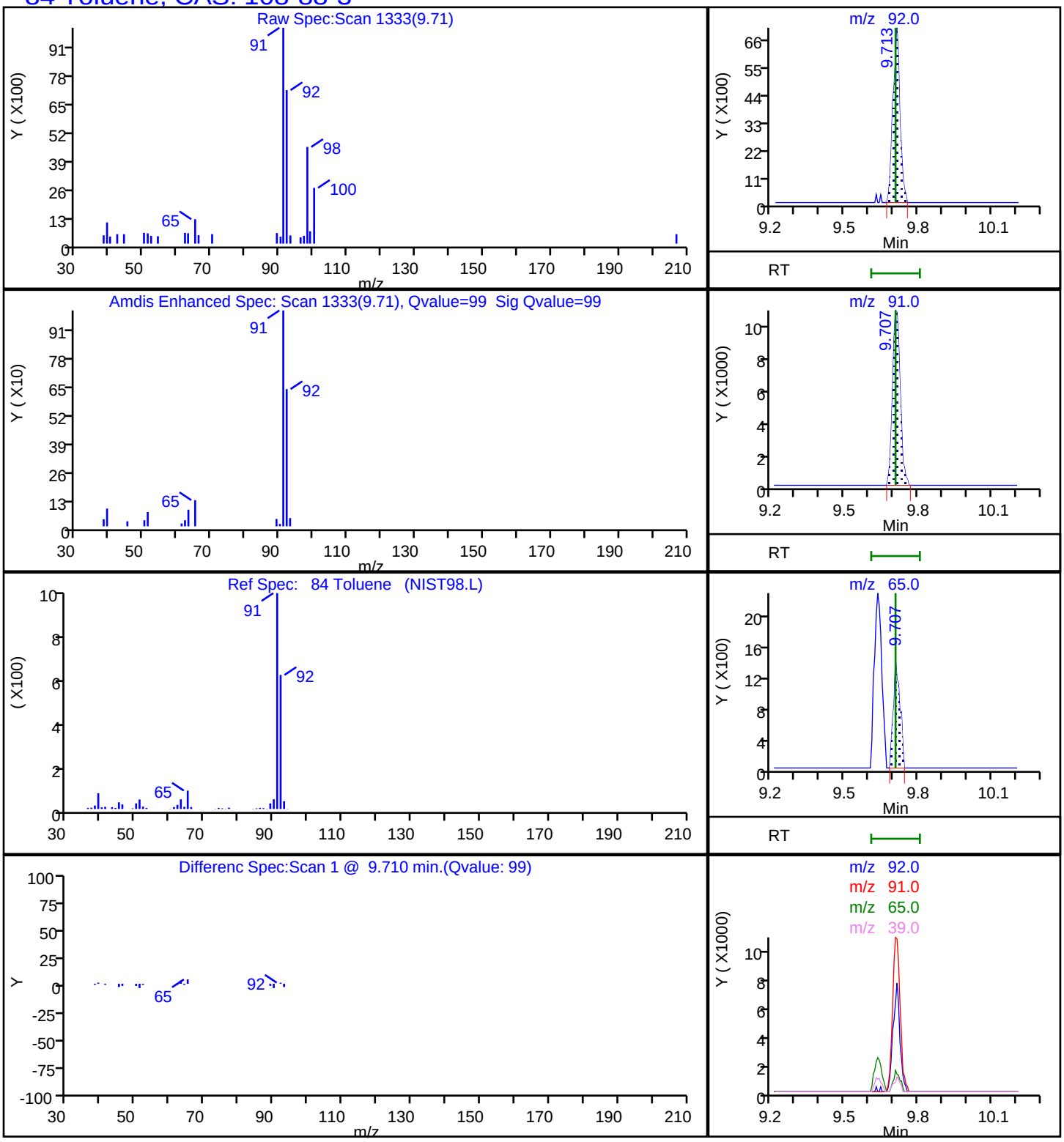
100 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X28.D				
Injection Date:	28-Jun-2022 20:03:30	Instrument ID:	16334		
Lims ID:	410-88520-A-11	Lab Sample ID:	410-88520-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	28	Worklist Smp#:	29
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

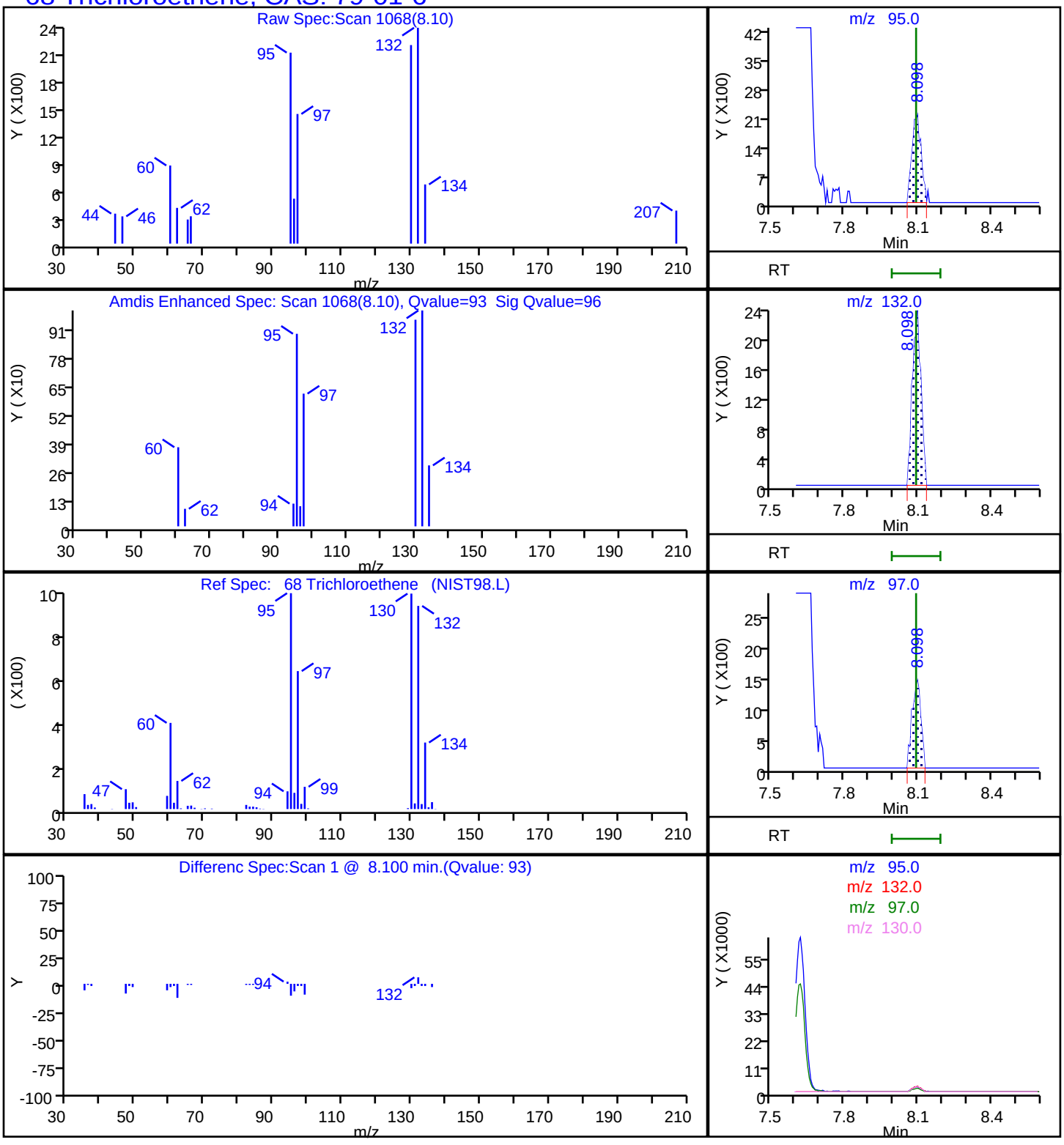
84 Toluene, CAS: 108-88-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X28.D				
Injection Date:	28-Jun-2022 20:03:30	Instrument ID:	16334		
Lims ID:	410-88520-A-11	Lab Sample ID:	410-88520-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	28	Worklist Smp#:	29
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

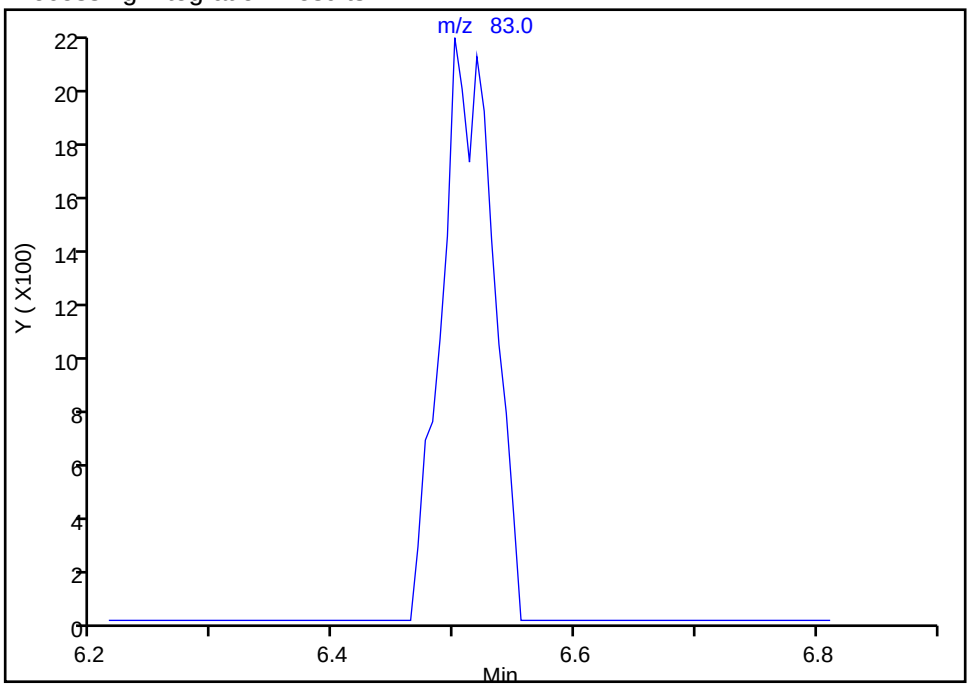
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X28.D				
Injection Date:	28-Jun-2022 20:03:30	Instrument ID:	16334		
Lims ID:	410-88520-A-11	Lab Sample ID:	410-88520-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	28	Worklist Smp#:	29
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

51 Chloroform, CAS: 67-66-3

Signal: 1

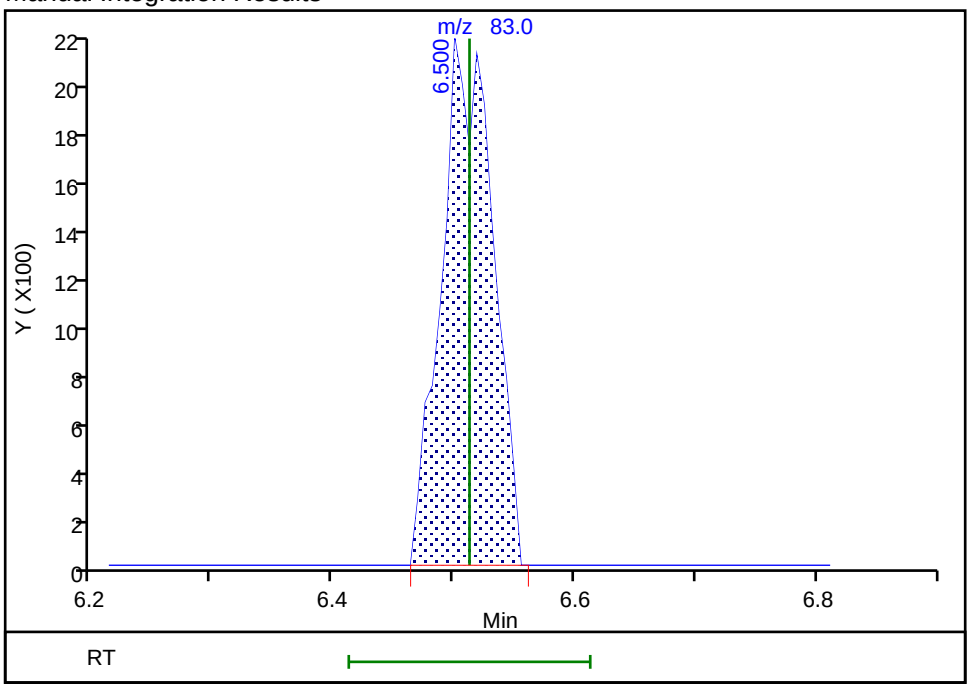
Not Detected
Expected RT: 6.51

Processing Integration Results



Manual Integration Results

RT: 6.50
Area: 6333
Amount: 0.080862
Amount Units: ug/l



Reviewer: kaewrungrueangp, 29-Jun-2022 14:14:35
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

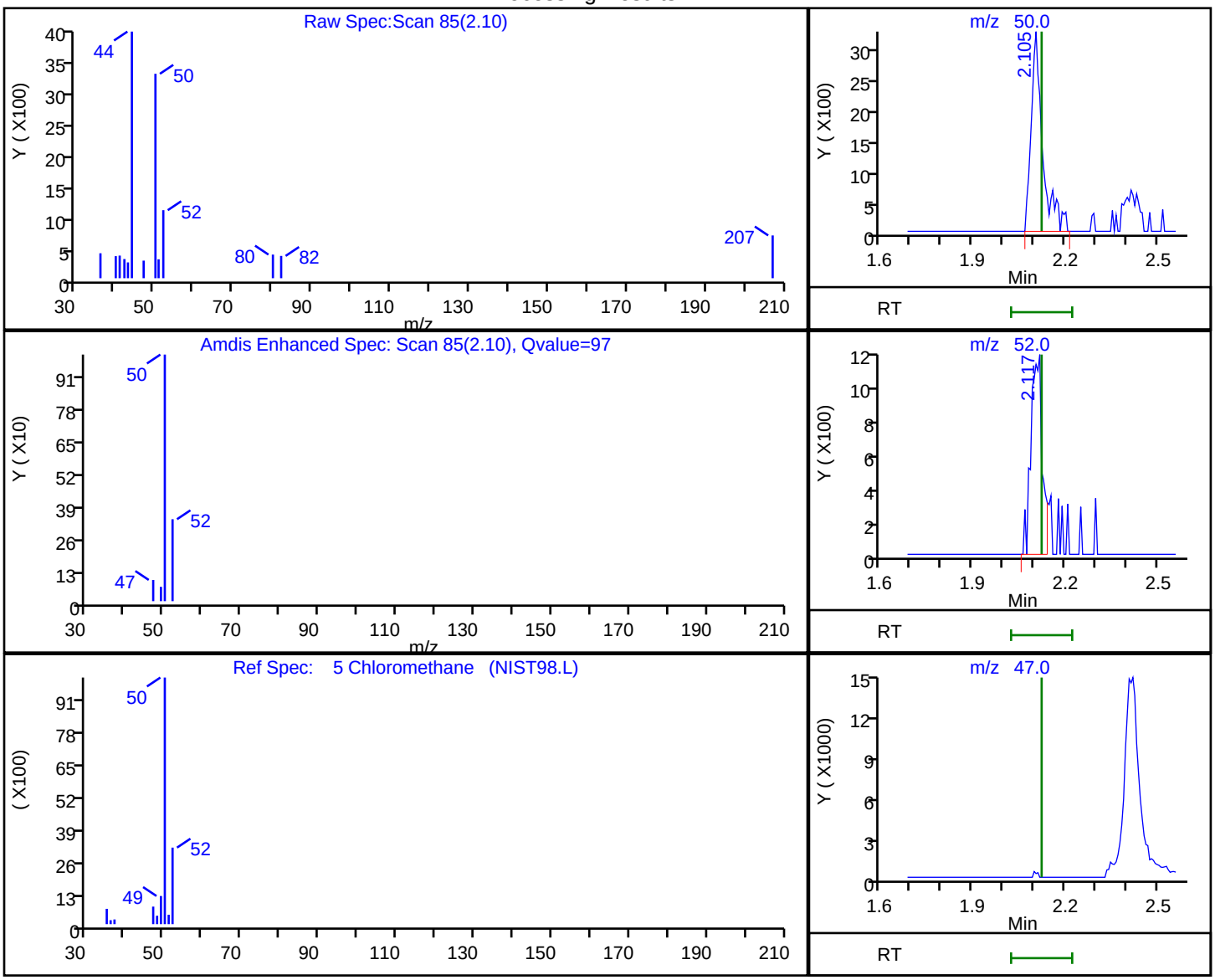
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X28.D				
Injection Date:	28-Jun-2022 20:03:30	Instrument ID:	16334		
Lims ID:	410-88520-A-11	Lab Sample ID:	410-88520-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	28	Worklist Smp#:	29
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

5 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
2.10	50.00	8538	0.155605
2.12	52.00	2915	
2.12	47.00	0	

Reviewer: kaewrungrueangp, 29-Jun-2022 14:14:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

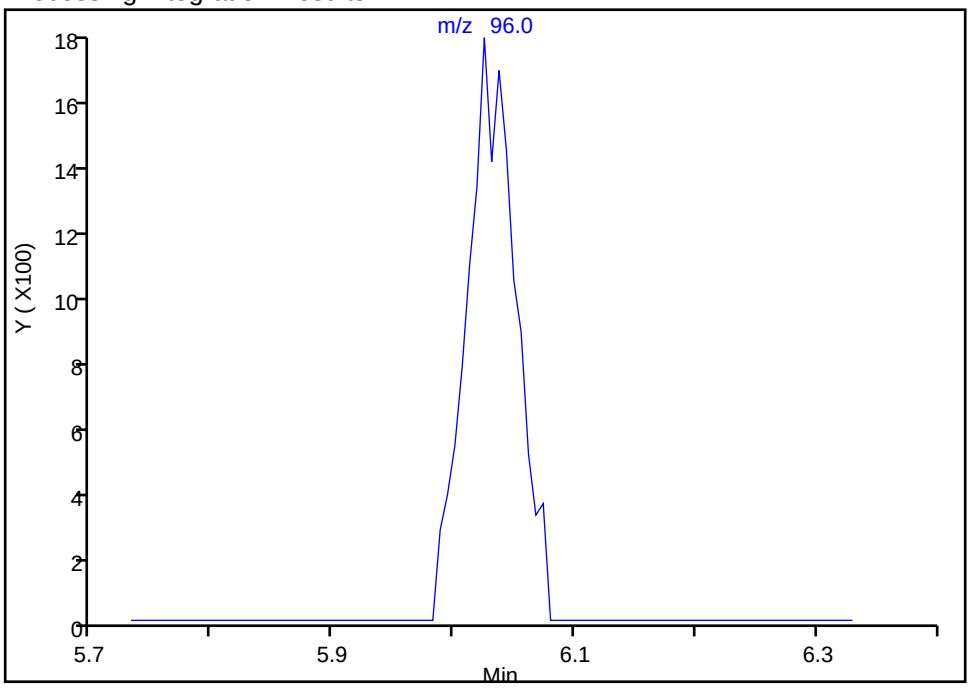
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X28.D				
Injection Date:	28-Jun-2022 20:03:30	Instrument ID:	16334		
Lims ID:	410-88520-A-11	Lab Sample ID:	410-88520-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	28	Worklist Smp#:	29
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

Signal: 1

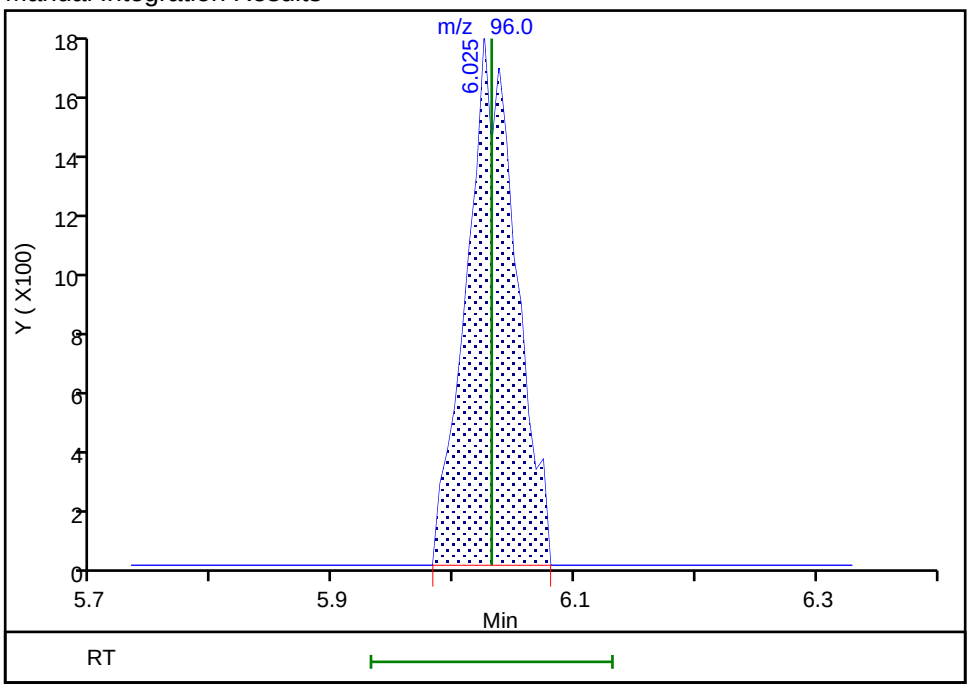
Not Detected
Expected RT: 6.03

Processing Integration Results



Manual Integration Results

RT: 6.02
Area: 4990
Amount: 0.100321
Amount Units: ug/l



Reviewer: kaewrungrueangp, 29-Jun-2022 14:14:29
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-29-0/1-0 Lab Sample ID: 410-88520-12

Matrix: Water Lab File ID: GU28X29.D

Analysis Method: 8260D Date Collected: 06/21/2022 09:05

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 20:25

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.: 270125 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.7	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.12	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.36	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.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-29-0/1-0 Lab Sample ID: 410-88520-12

Matrix: Water Lab File ID: GU28X29.D

Analysis Method: 8260D Date Collected: 06/21/2022 09:05

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 20:25

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.: 270125 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)	112		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)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X29.D
Lims ID: 410-88520-A-12
Client ID: HD-COD-SW-29-0/1-0
Sample Type: Client
Inject. Date: 28-Jun-2022 20:25:30 ALS Bottle#: 29 Worklist Smp#: 30
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060580-030
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Jun-2022 14:15:30 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:15:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.123				ND	U
8 Vinyl chloride	62		2.233				ND	
9 Bromomethane	94		2.562				ND	
10 Chloroethane	64		2.641				ND	
19 1,1-Dichloroethene	96		3.471				ND	7
21 Acetone	43	3.525	3.532	-0.007	66	13315	1.75	
25 Carbon disulfide	76		3.763				ND	7
29 Methylene Chloride	84		4.123				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.184	4.190	-0.006	70	165785	50.0	
33 Methyl tert-butyl ether	73		4.525				ND	
34 trans-1,2-Dichloroethene	96		4.525				ND	
37 1,1-Dichloroethane	63		5.190				ND	
41 2-Butanone (MEK)	43		6.001				ND	
42 cis-1,2-Dichloroethene	96	6.037	6.031	0.006	78	5832	0.1180	a
49 Chlorobromomethane	128		6.360				ND	
51 Chloroform	83	6.519	6.513	0.006	1	4589	0.0590	a
$ 52 Dibromofluoromethane (Surr)	113	6.726	6.726	0.000	94	516117	10.9	
53 1,1,1-Trichloroethane	97		6.738				ND	7
56 Carbon tetrachloride	117		6.939				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.177	0.000	42	111362	11.2	
60 Benzene	78		7.208				ND	
61 1,2-Dichloroethane	62		7.281				ND	
* 64 Fluorobenzene (IS)	96	7.610	7.616	-0.006	99	1967103	10.0	
68 Trichloroethene	95	8.098	8.092	0.006	97	5919	0.1207	
70 1,2-Dichloropropane	63		8.427				ND	
76 Dichlorobromomethane	83		8.774				ND	
81 cis-1,3-Dichloropropene	75		9.323				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.500				ND	
$ 83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	1981059	9.89	
84 Toluene	92	9.707	9.707	0.000	99	6463	0.0519	
96 trans-1,3-Dichloropropene	75		9.969				ND	
99 1,1,2-Trichloroethane	97		10.177				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
100 Tetrachloroethene	166	10.262	10.262	0.000	97	20896	0.3604	
102 2-Hexanone	43		10.396				ND	
104 Chlorodibromomethane	129		10.555				ND	
105 Ethylene Dibromide	107		10.664				ND	
* 106 Chlorobenzene-d5 (IS)	117	11.097	11.097	0.000	84	1563966	10.0	
108 Chlorobenzene	112		11.122				ND	
110 1,1,1,2-Tetrachloroethane	131		11.207				ND	
111 Ethylbenzene	91		11.213				ND	
S 109 Xylenes, Total	106		11.245				ND	7
112 m-Xylene & p-Xylene	106		11.323				ND	7
113 o-Xylene	106		11.652				ND	
114 Styrene	104		11.670				ND	
115 Bromoform	173		11.829				ND	
$ 119 4-Bromofluorobenzene (Surr)	95	12.097	12.097	0.000	93	695924	9.21	
120 1,1,2,2-Tetrachloroethane	83		12.201				ND	
* 134 1,4-Dichlorobenzene-d4	152	12.975	12.975	0.000	94	874530	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

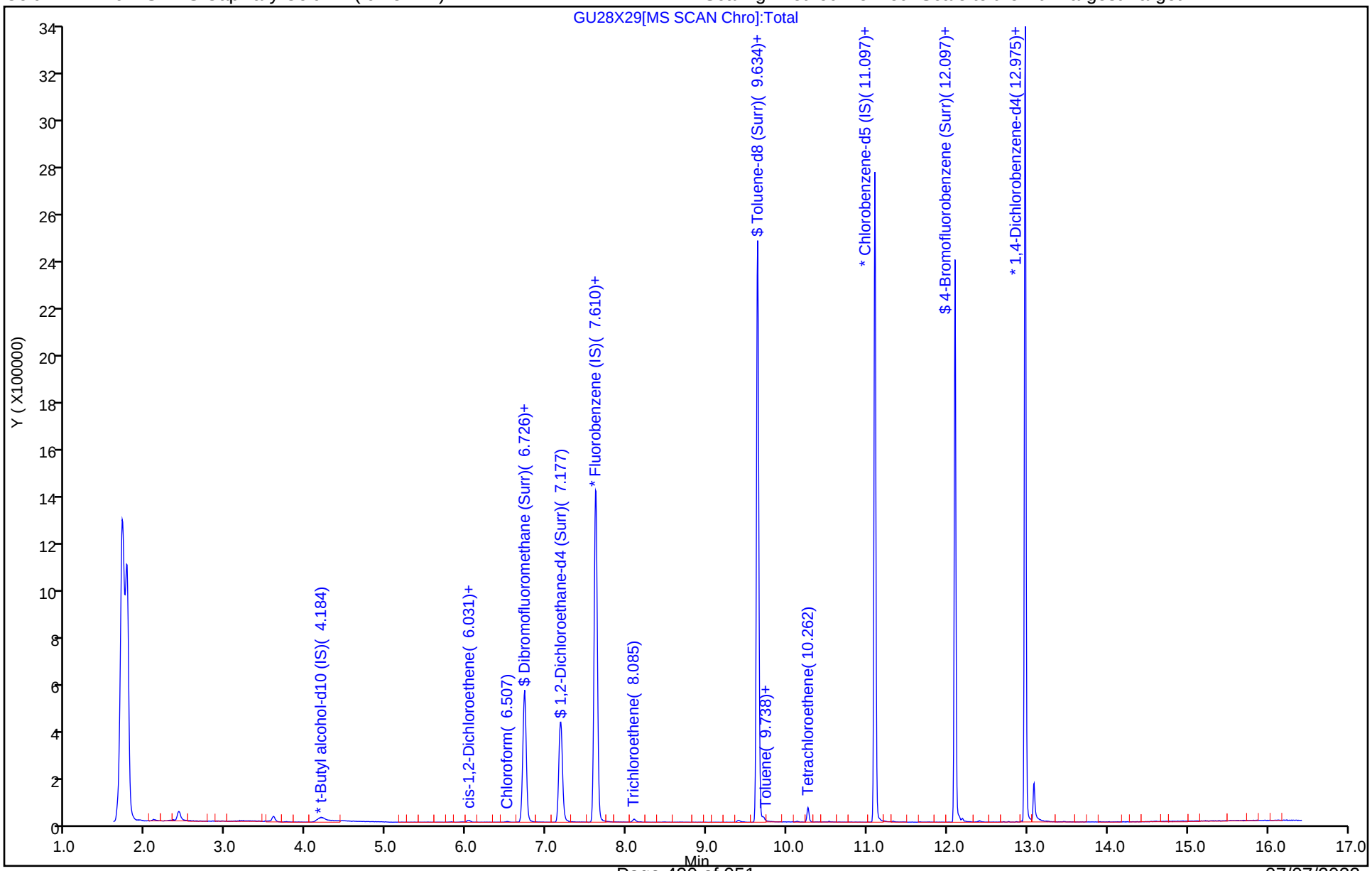
MSV_29_826ISS_00034 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 29-Jun-2022 14:15:30 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X29.D				
Injection Date:	28-Jun-2022 20:25:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-88520-A-12	Lab Sample ID:	410-88520-12	Worklist Smp#:	30
Client ID:	HD-COD-SW-29-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X29.D				
Lims ID:	410-88520-A-12				
Client ID:	HD-COD-SW-29-0/1-0				
Sample Type:	Client				
Inject. Date:	28-Jun-2022 20:25:30	ALS Bottle#:	29	Worklist Smp#:	30
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0060580-030				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	29-Jun-2022 14:15:30	Calib Date:	10-Jan-2022 23:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1674				

First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:15:30

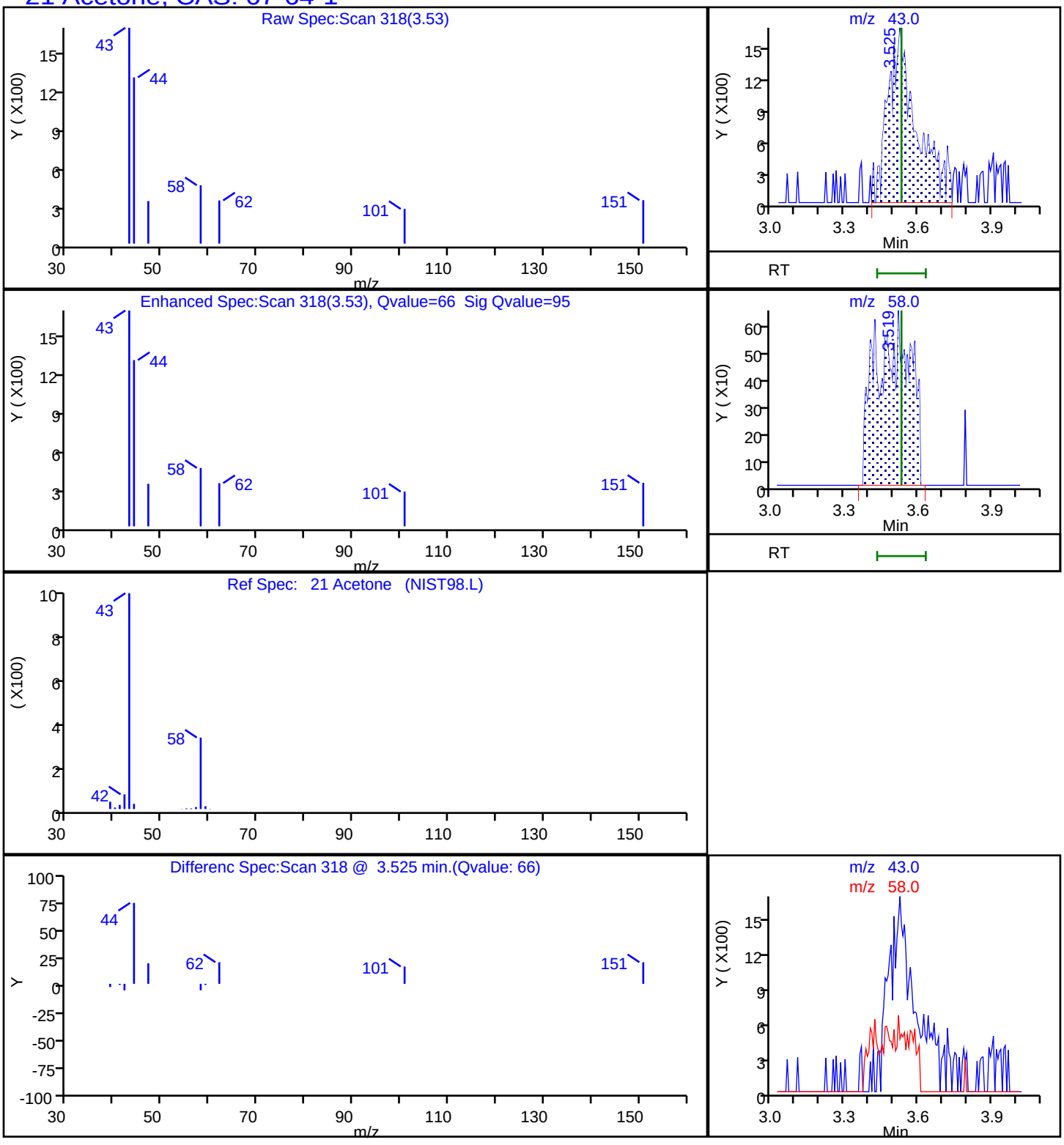
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.9	109.32
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	11.2	111.60
$ 83 Toluene-d8 (Surr)	10.0	9.89	98.93
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.21	92.10

Report Date: 29-Jun-2022 14:15:30 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X29.D				
Injection Date:	28-Jun-2022 20:25:30	Instrument ID:	16334		
Lims ID:	410-88520-A-12	Lab Sample ID:	410-88520-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	29	Worklist Smp#:	30
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

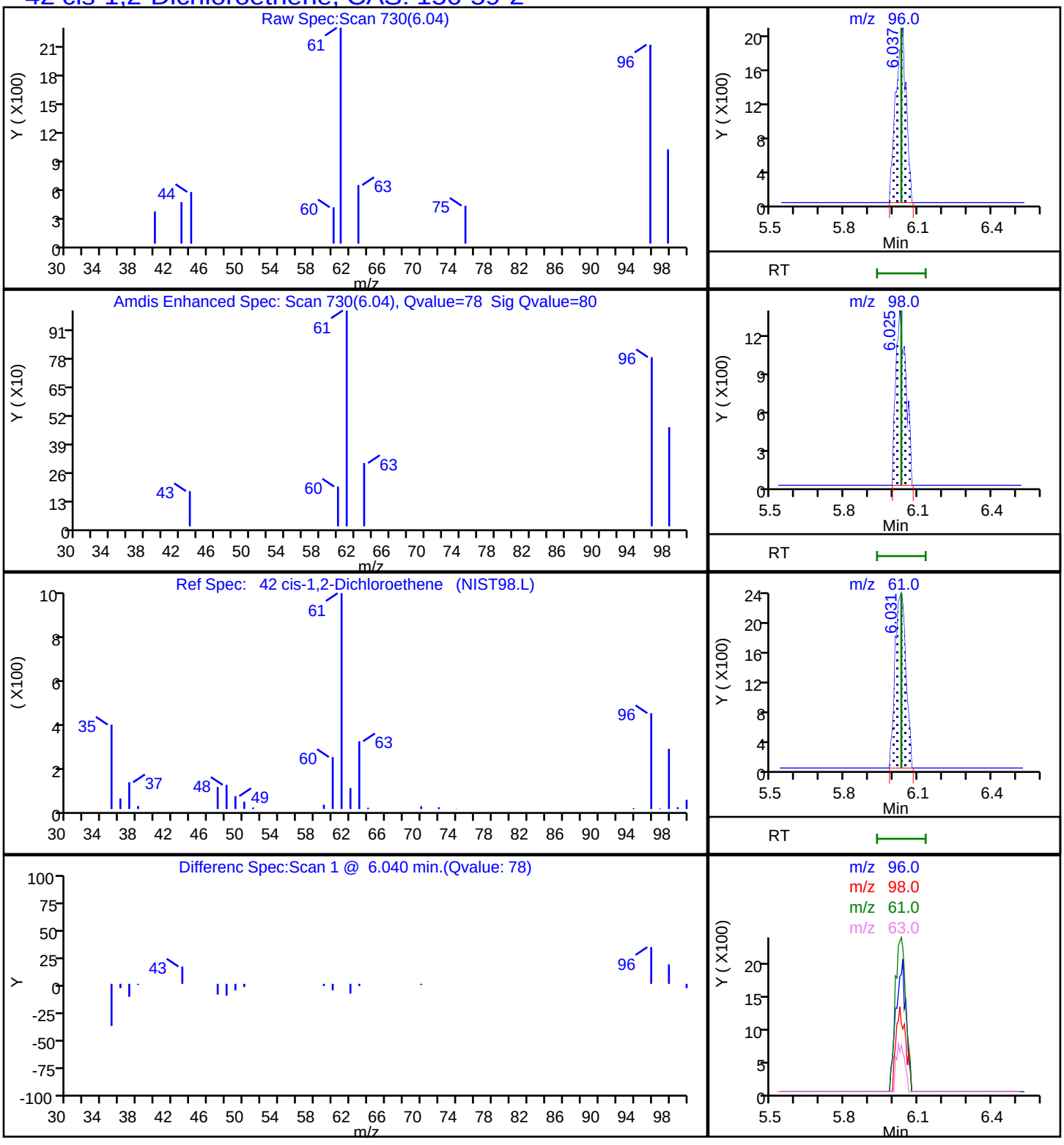
21 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X29.D				
Injection Date:	28-Jun-2022 20:25:30	Instrument ID:	16334		
Lims ID:	410-88520-A-12	Lab Sample ID:	410-88520-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	29	Worklist Smp#:	30
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

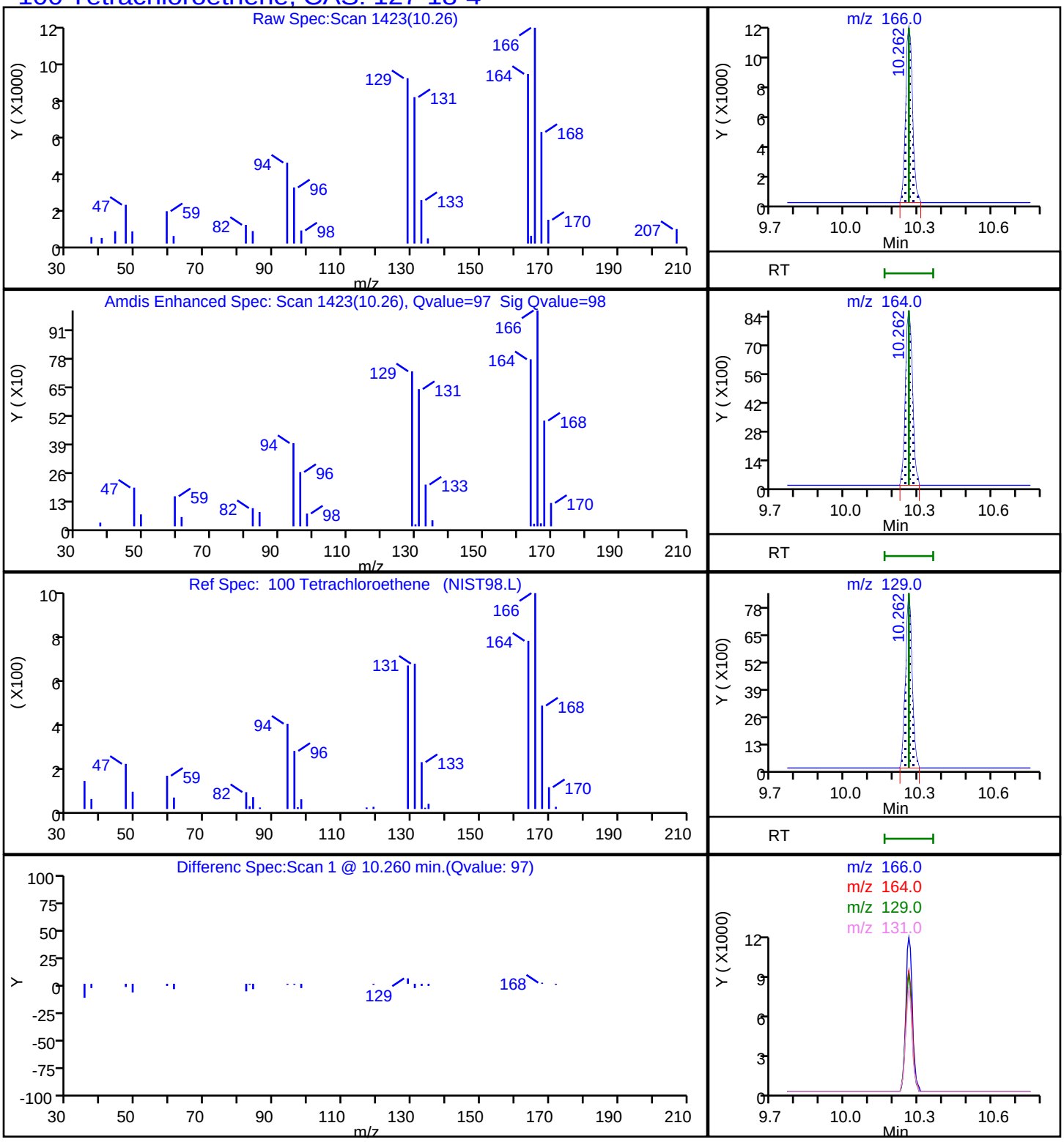
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X29.D				
Injection Date:	28-Jun-2022 20:25:30	Instrument ID:	16334		
Lims ID:	410-88520-A-12	Lab Sample ID:	410-88520-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	29	Worklist Smp#:	30
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

100 Tetrachloroethene, CAS: 127-18-4

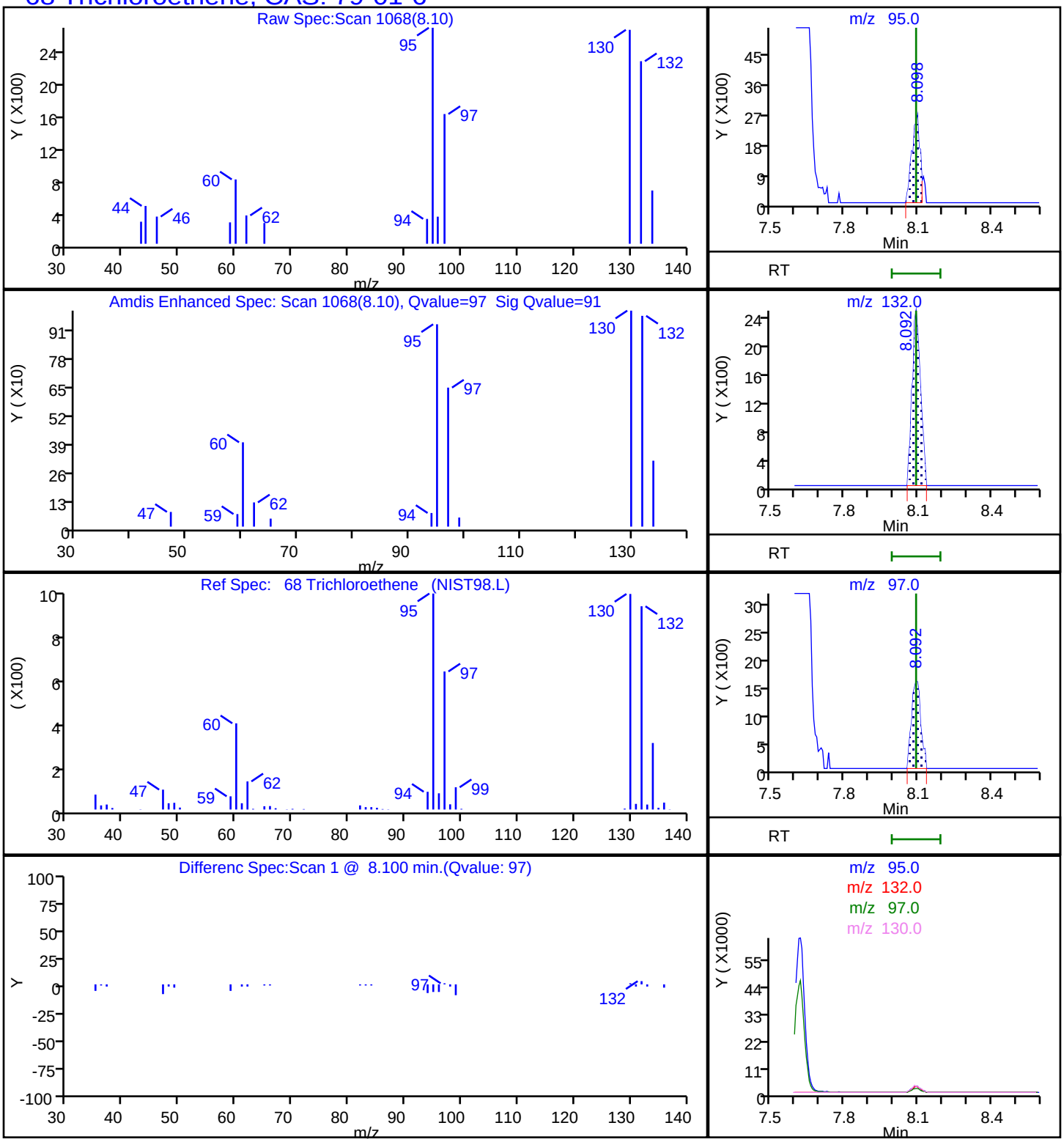


Report Date: 29-Jun-2022 14:15:31 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X29.D				
Injection Date:	28-Jun-2022 20:25:30	Instrument ID:	16334		
Lims ID:	410-88520-A-12	Lab Sample ID:	410-88520-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	29	Worklist Smp#:	30
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

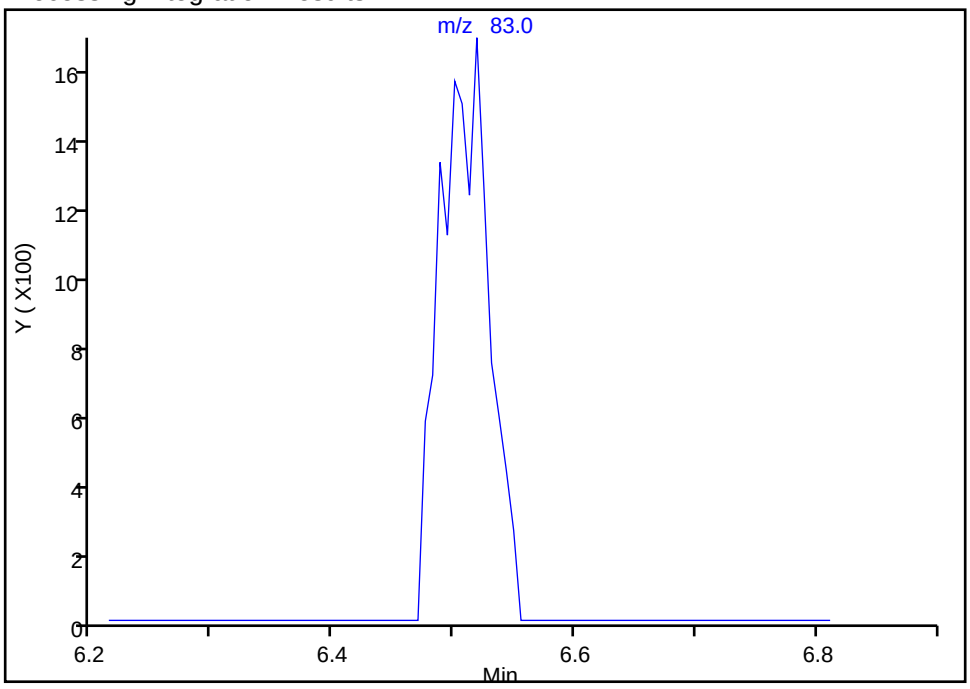
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X29.D				
Injection Date:	28-Jun-2022 20:25:30	Instrument ID:	16334		
Lims ID:	410-88520-A-12	Lab Sample ID:	410-88520-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	29	Worklist Smp#:	30
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

51 Chloroform, CAS: 67-66-3

Signal: 1

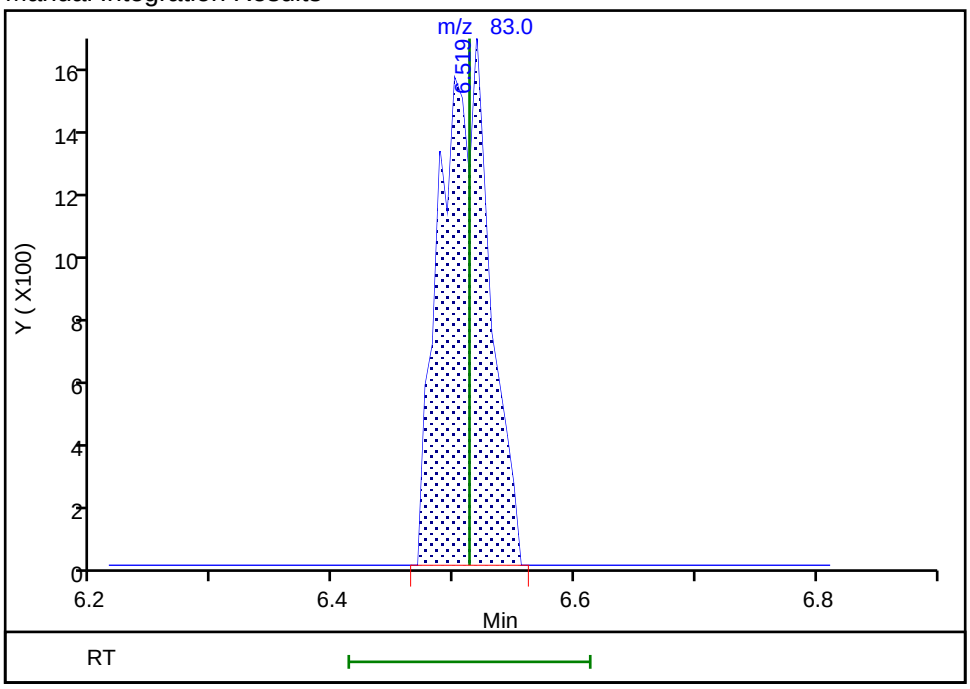
Not Detected
Expected RT: 6.51

Processing Integration Results



Manual Integration Results

RT: 6.52
Area: 4589
Amount: 0.058963
Amount Units: ug/l



Reviewer: kaewrungrueangp, 29-Jun-2022 14:15:18
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

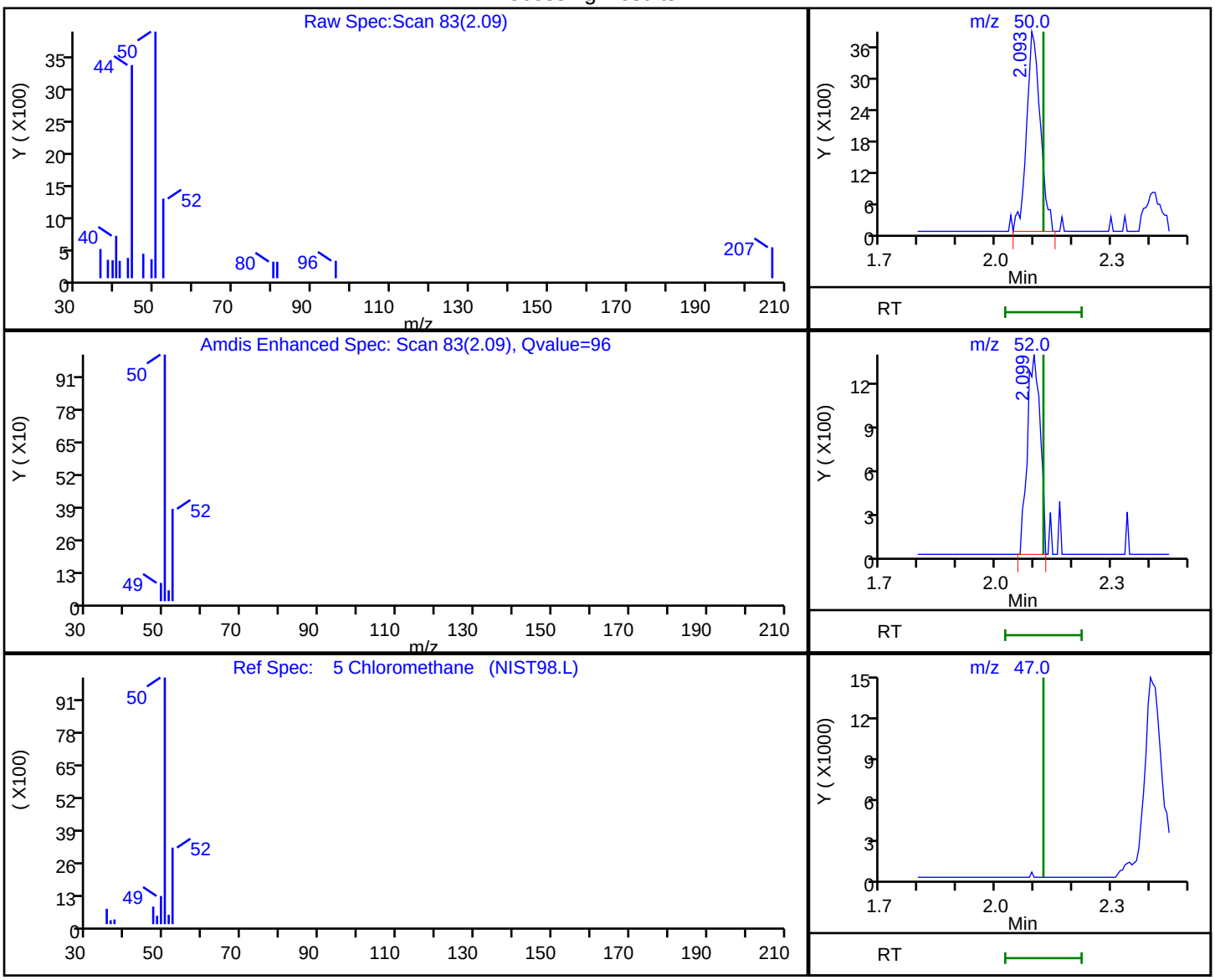
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X29.D				
Injection Date:	28-Jun-2022 20:25:30	Instrument ID:	16334		
Lims ID:	410-88520-A-12	Lab Sample ID:	410-88520-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	29	Worklist Smp#:	30
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

5 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
2.09	50.00	9500	0.174227
2.10	52.00	3254	
2.12	47.00	0	

Reviewer: kaewrungrueangp, 29-Jun-2022 14:15:03

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

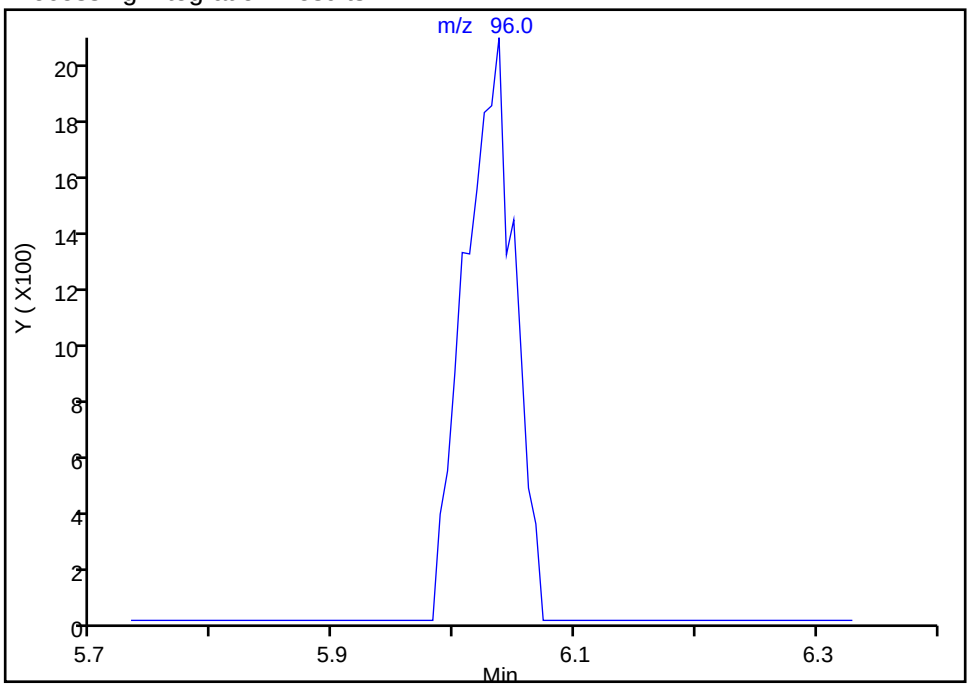
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X29.D				
Injection Date:	28-Jun-2022 20:25:30	Instrument ID:	16334		
Lims ID:	410-88520-A-12	Lab Sample ID:	410-88520-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	29	Worklist Smp#:	30
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

Signal: 1

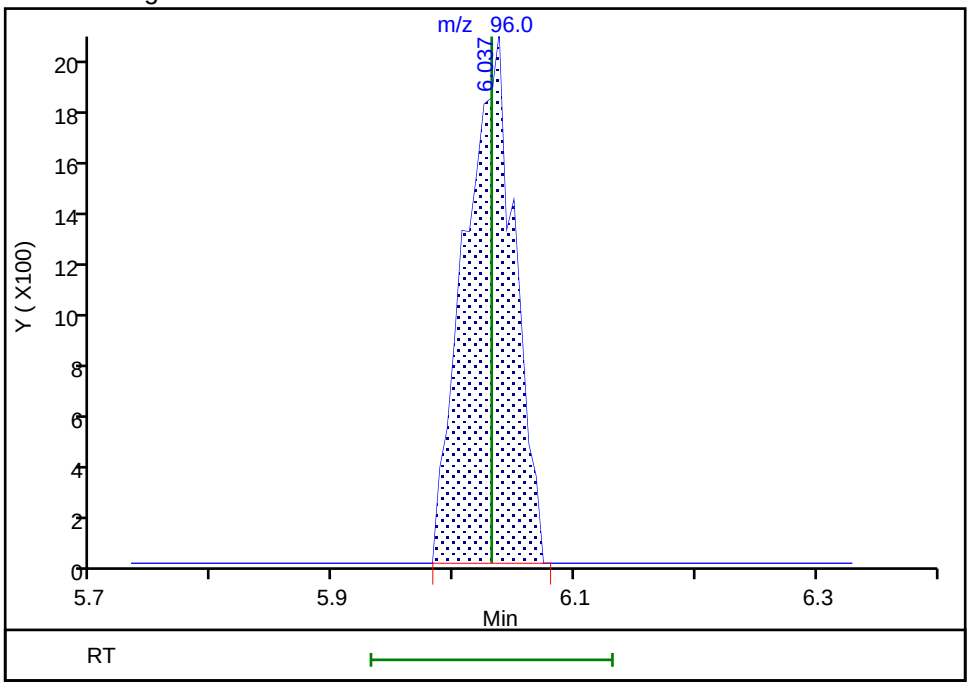
Not Detected
Expected RT: 6.03

Processing Integration Results



Manual Integration Results

RT: 6.04
Area: 5832
Amount: 0.117987
Amount Units: ug/l



Reviewer: kaewrungrueangp, 29-Jun-2022 14:15:11
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.: 410-88520-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1 Lab Sample ID: 410-88520-13

Matrix: Water Lab File ID: GU28X30.D

Analysis Method: 8260D Date Collected: 06/21/2022 12:00

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 20:47

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 270125 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	7.9		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	1.3		0.50	0.10
75-35-4	1,1-Dichloroethene	0.66		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.30	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	4.2		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
108-88-3	Toluene	ND		0.50	0.080
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1 Lab Sample ID: 410-88520-13

Matrix: Water Lab File ID: GU28X30.D

Analysis Method: 8260D Date Collected: 06/21/2022 12:00

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 20:47

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 270125 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	6.1		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)	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\16334\20220628-60580.b\GU28X30.D
Lims ID: 410-88520-A-13
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 28-Jun-2022 20:47:30 ALS Bottle#: 30 Worklist Smp#: 31
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060580-031
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Jun-2022 14:16:34 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:16:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.123				ND	U
8 Vinyl chloride	62	2.227	2.233	-0.006	1	3430	0.0608	
9 Bromomethane	94		2.562				ND	
10 Chloroethane	64		2.641				ND	
19 1,1-Dichloroethene	96	3.470	3.471	-0.001	97	27158	0.6648	
21 Acetone	43		3.532				ND	U
25 Carbon disulfide	76		3.763				ND	7
29 Methylene Chloride	84		4.123				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.190	4.190	0.000	69	136197	50.0	
33 Methyl tert-butyl ether	73		4.525				ND	7
34 trans-1,2-Dichloroethene	96	4.525	4.525	0.000	36	1343	0.0297	
37 1,1-Dichloroethane	63	5.190	5.190	0.000	96	101611	1.33	
41 2-Butanone (MEK)	43		6.001				ND	
42 cis-1,2-Dichloroethene	96	6.031	6.031	0.000	78	205677	4.16	
49 Chlorobromomethane	128		6.360				ND	
51 Chloroform	83	6.513	6.513	0.000	92	23705	0.3045	
$ 52 Dibromofluoromethane (Surr)	113	6.726	6.726	0.000	94	517757	11.0	
53 1,1,1-Trichloroethane	97	6.732	6.738	-0.006	98	522427	7.85	
56 Carbon tetrachloride	117		6.939				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.177	0.000	30	108699	10.9	
60 Benzene	78		7.208				ND	
61 1,2-Dichloroethane	62		7.281				ND	
* 64 Fluorobenzene (IS)	96	7.616	7.616	0.000	99	1967726	10.0	
68 Trichloroethene	95	8.092	8.092	0.000	97	297264	6.06	
70 1,2-Dichloropropane	63		8.427				ND	
76 Dichlorobromomethane	83		8.774				ND	
81 cis-1,3-Dichloropropene	75		9.323				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.500				ND	
$ 83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	1980749	9.60	
84 Toluene	92		9.707				ND	7
96 trans-1,3-Dichloropropene	75		9.969				ND	
99 1,1,2-Trichloroethane	97		10.177				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
100 Tetrachloroethene	166	10.262	10.262	0.000	97	6333886	106.0	E
102 2-Hexanone	43		10.396				ND	
104 Chlorodibromomethane	129		10.555				ND	
105 Ethylene Dibromide	107		10.664				ND	
* 106 Chlorobenzene-d5 (IS)	117	11.097	11.097	0.000	84	1612078	10.0	
108 Chlorobenzene	112	11.128	11.122	0.006	82	2224	0.0149	7a
110 1,1,1,2-Tetrachloroethane	131		11.207				ND	
111 Ethylbenzene	91		11.213				ND	
S 109 Xylenes, Total	106		11.245				ND	7
112 m-Xylene & p-Xylene	106		11.323				ND	7
113 o-Xylene	106		11.652				ND	
114 Styrene	104		11.670				ND	
115 Bromoform	173		11.829				ND	
$ 119 4-Bromofluorobenzene (Surr)	95	12.097	12.097	0.000	92	709082	9.10	
120 1,1,2,2-Tetrachloroethane	83		12.201				ND	
* 134 1,4-Dichlorobenzene-d4	152	12.975	12.975	0.000	94	873396	10.0	

QC Flag Legend

Processing Flags
- E - Exceeded Maximum Amount
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected
- a - User Assigned ID

Reagents:

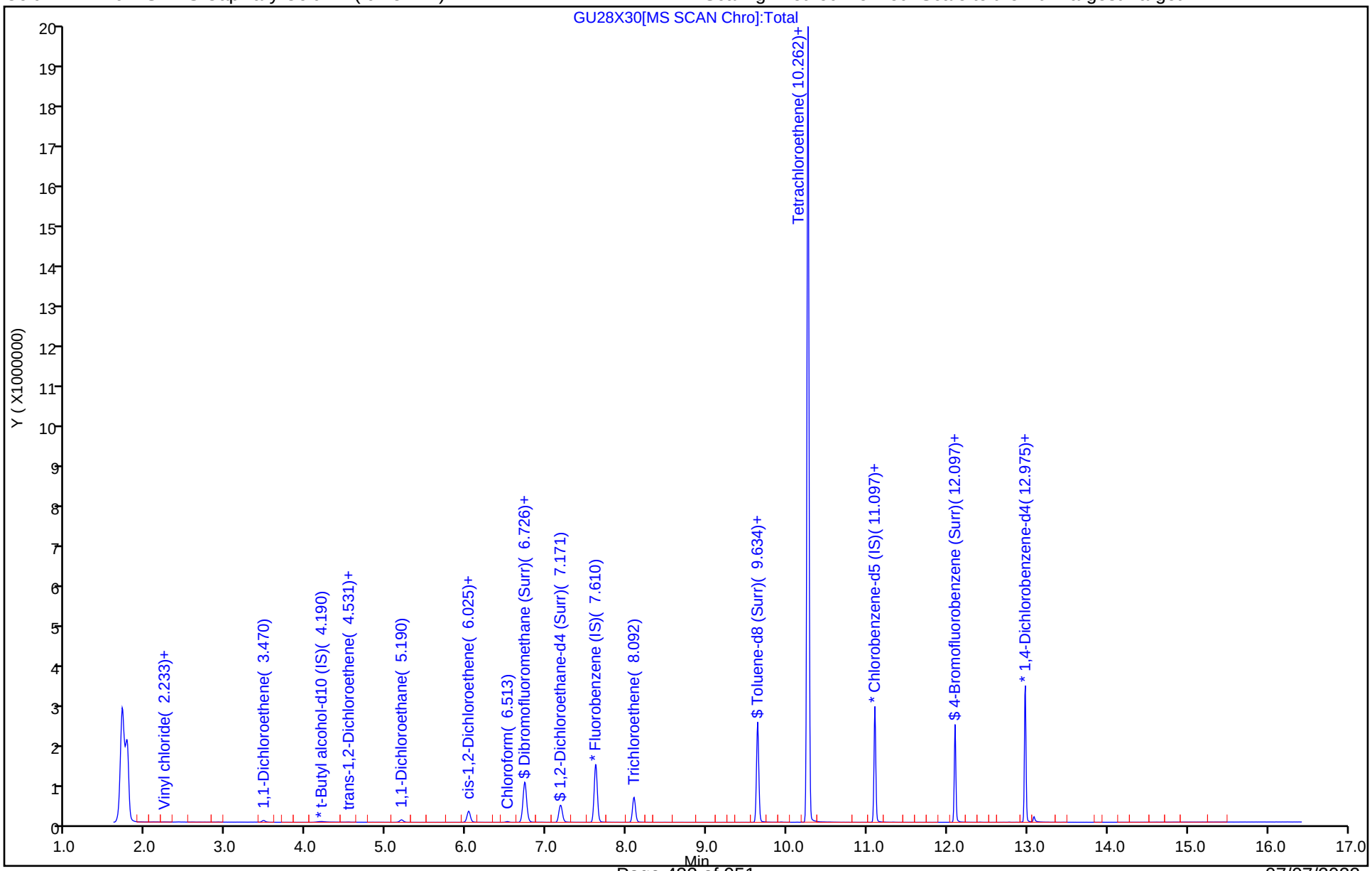
MSV_29_826ISS_00034 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 29-Jun-2022 14:16:34 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X30.D				
Injection Date:	28-Jun-2022 20:47:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-88520-A-13	Lab Sample ID:	410-88520-13	Worklist Smp#:	31
Client ID:	HD-QC1-0/1-1				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X30.D				
Lims ID:	410-88520-A-13				
Client ID:	HD-QC1-0/1-1				
Sample Type:	Client				
Inject. Date:	28-Jun-2022 20:47:30	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0060580-031				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	29-Jun-2022 14:16:34	Calib Date:	10-Jan-2022 23:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1674				

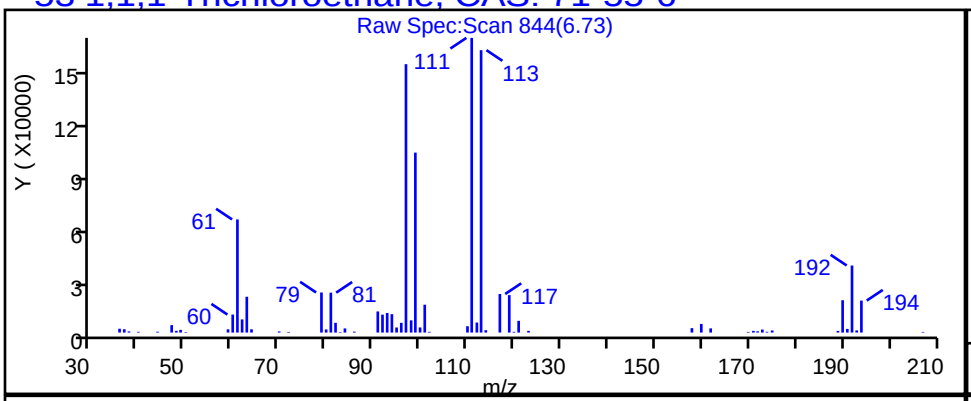
First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:16:34

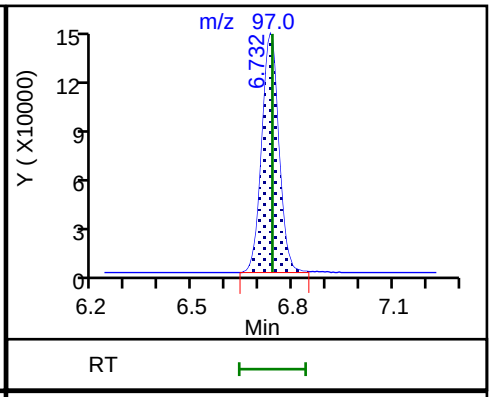
Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	11.0	109.63
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.9	108.90
$ 83 Toluene-d8 (Surr)	10.0	9.60	95.96
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.10	91.04

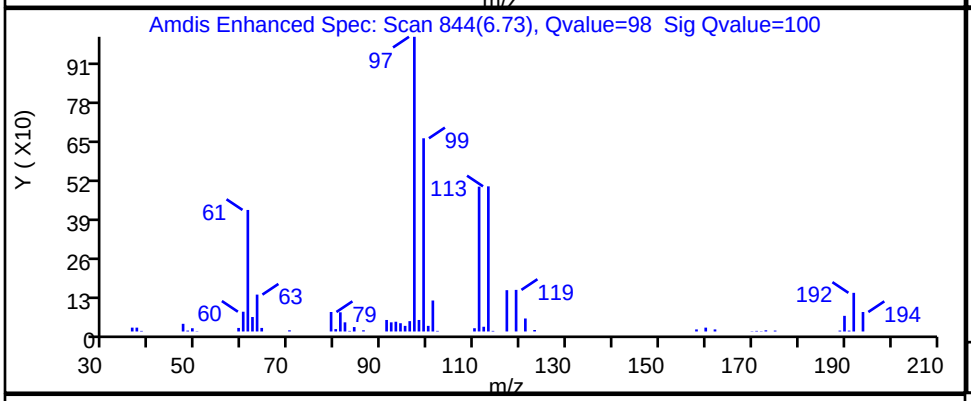
Eurofins Lancaster Laboratories Environment Testing, LLC

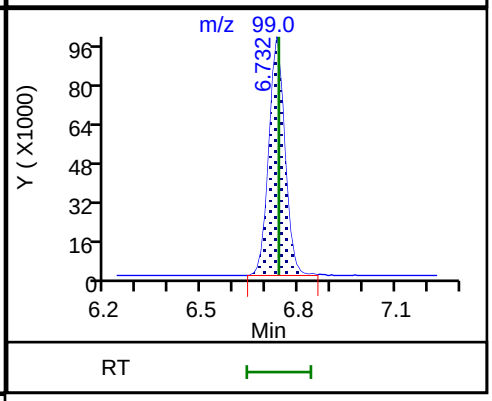
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X30.D				
Injection Date:	28-Jun-2022 20:47:30	Instrument ID:	16334		
Lims ID:	410-88520-A-13	Lab Sample ID:	410-88520-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

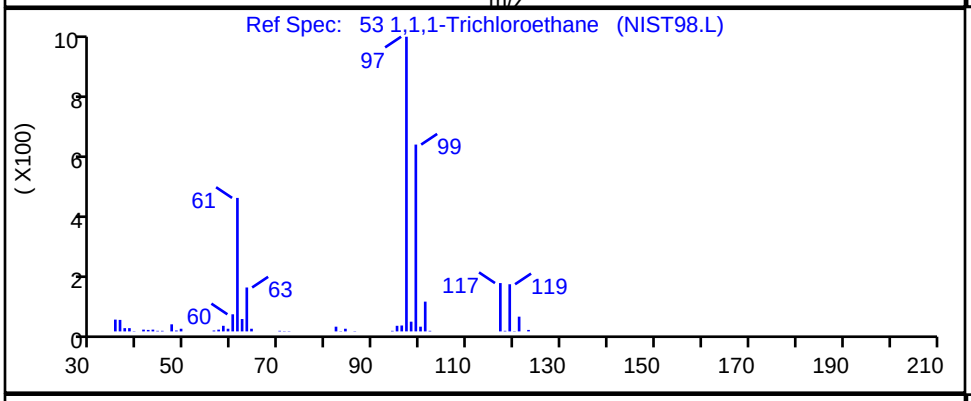
53 1,1,1-Trichloroethane, CAS: 71-55-6

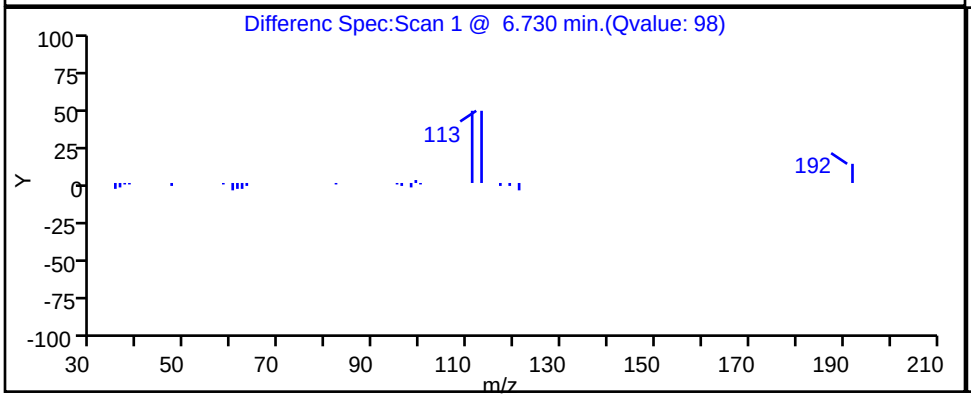


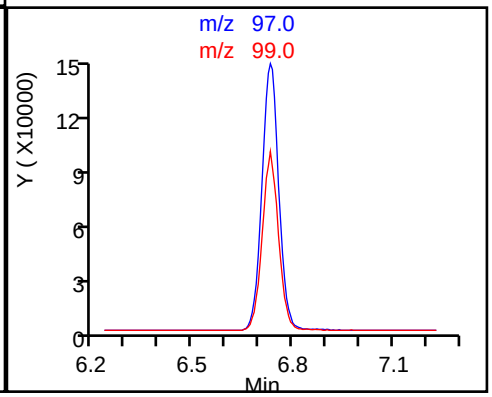








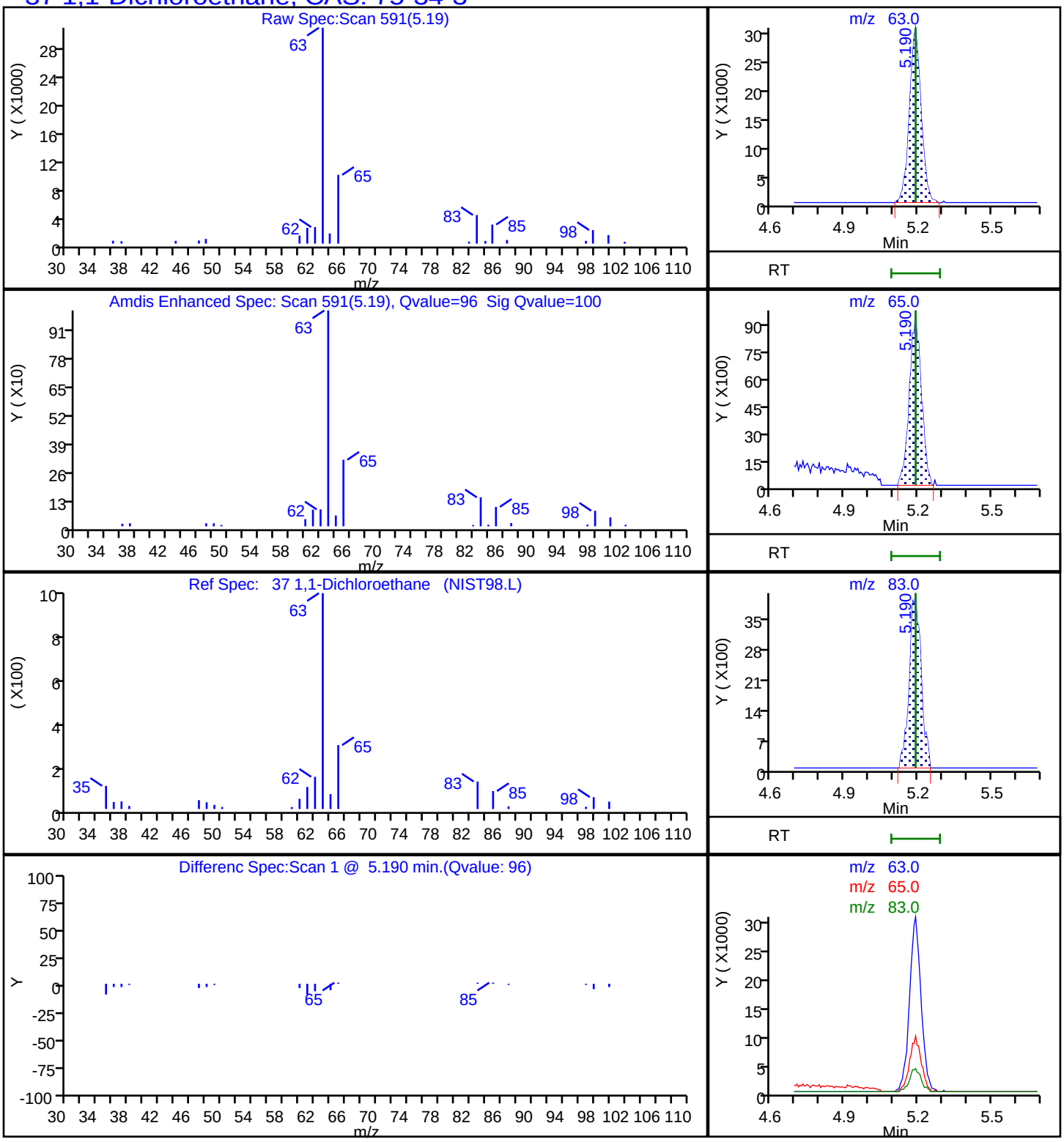




Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X30.D				
Injection Date:	28-Jun-2022 20:47:30	Instrument ID:	16334		
Lims ID:	410-88520-A-13	Lab Sample ID:	410-88520-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

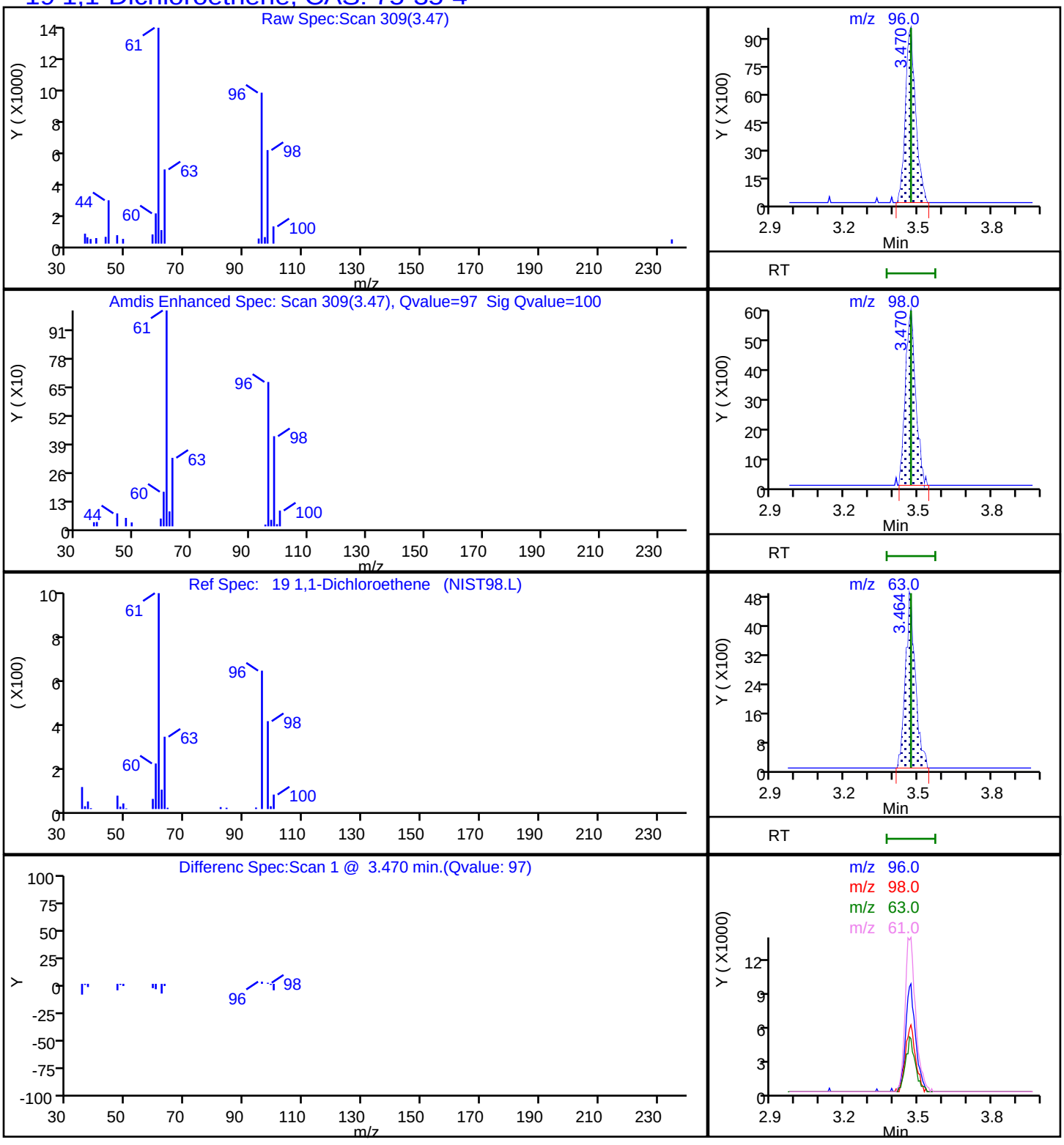
37 1,1-Dichloroethane, CAS: 75-34-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X30.D				
Injection Date:	28-Jun-2022 20:47:30	Instrument ID:	16334		
Lims ID:	410-88520-A-13	Lab Sample ID:	410-88520-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

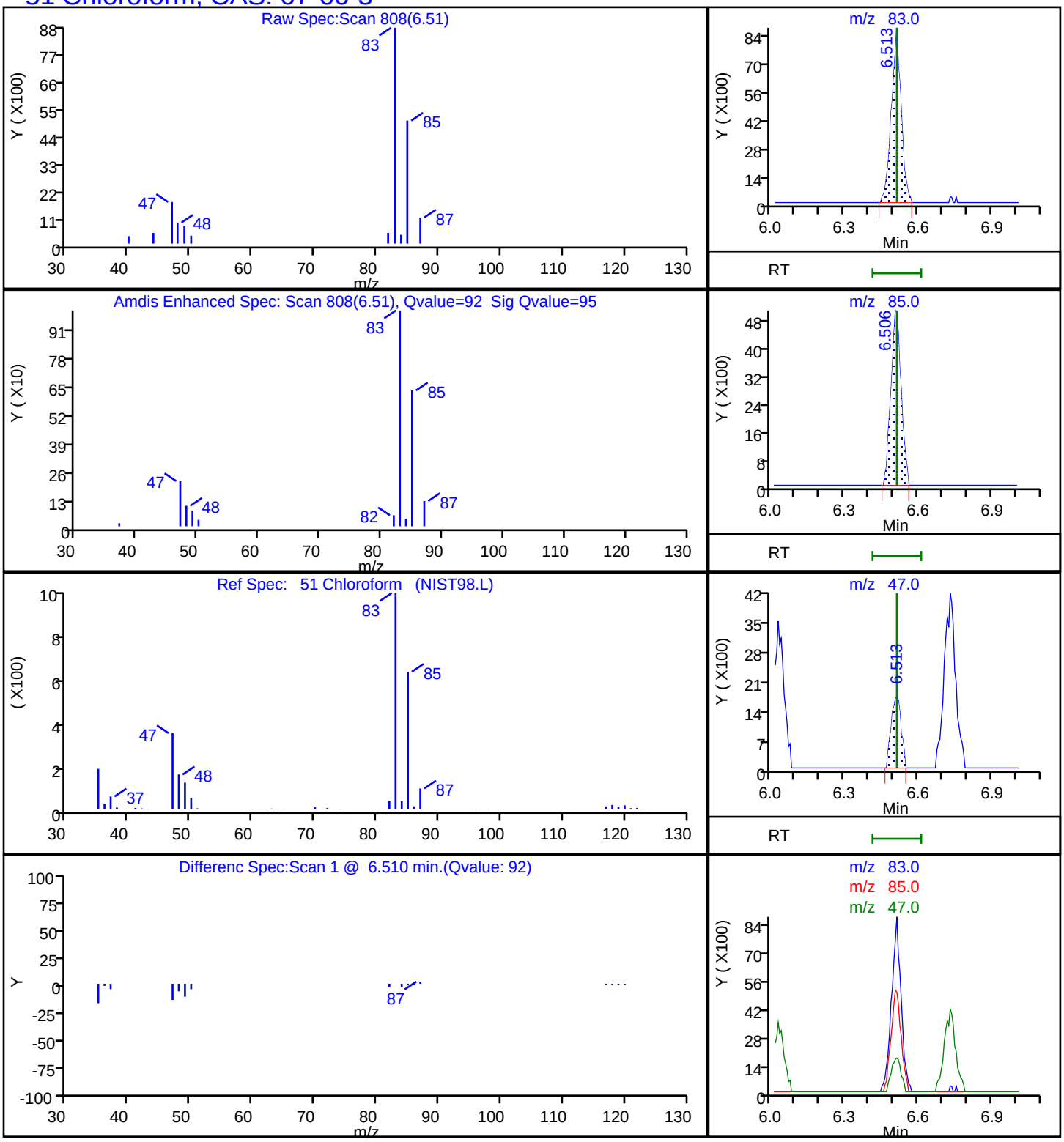
19 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X30.D				
Injection Date:	28-Jun-2022 20:47:30	Instrument ID:	16334		
Lims ID:	410-88520-A-13	Lab Sample ID:	410-88520-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

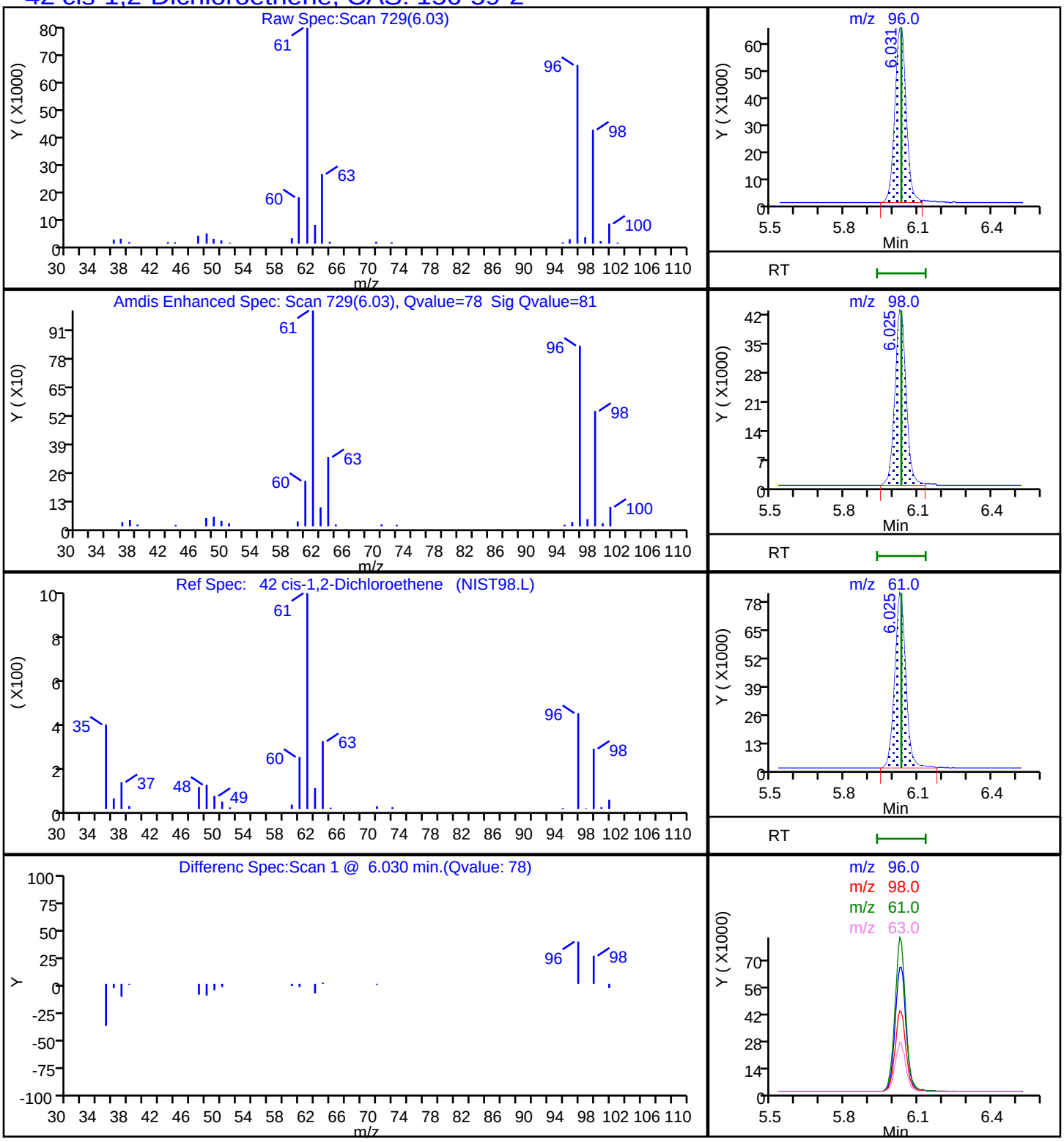
51 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X30.D				
Injection Date:	28-Jun-2022 20:47:30	Instrument ID:	16334		
Lims ID:	410-88520-A-13	Lab Sample ID:	410-88520-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

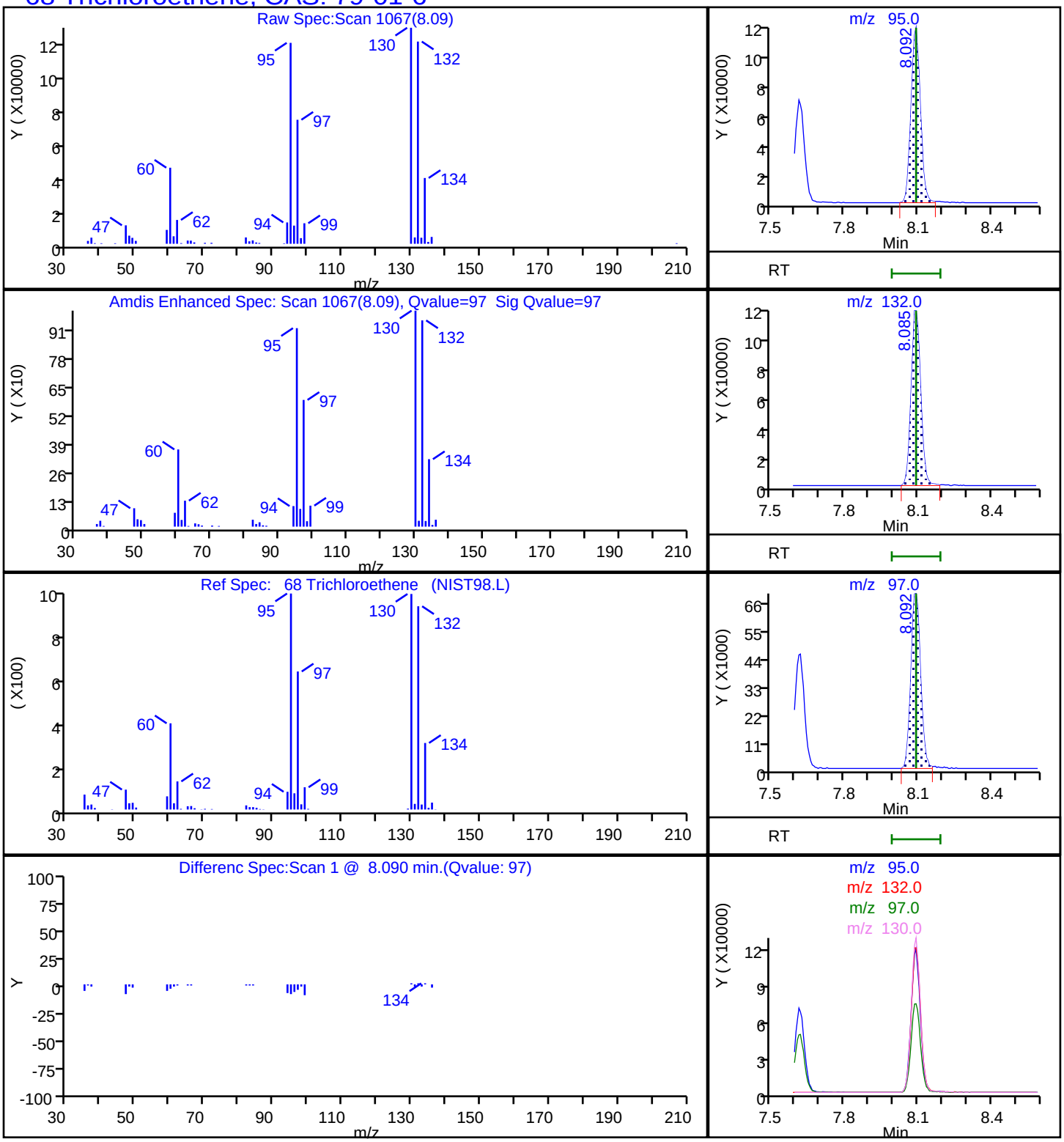
42 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X30.D				
Injection Date:	28-Jun-2022 20:47:30	Instrument ID:	16334		
Lims ID:	410-88520-A-13	Lab Sample ID:	410-88520-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6



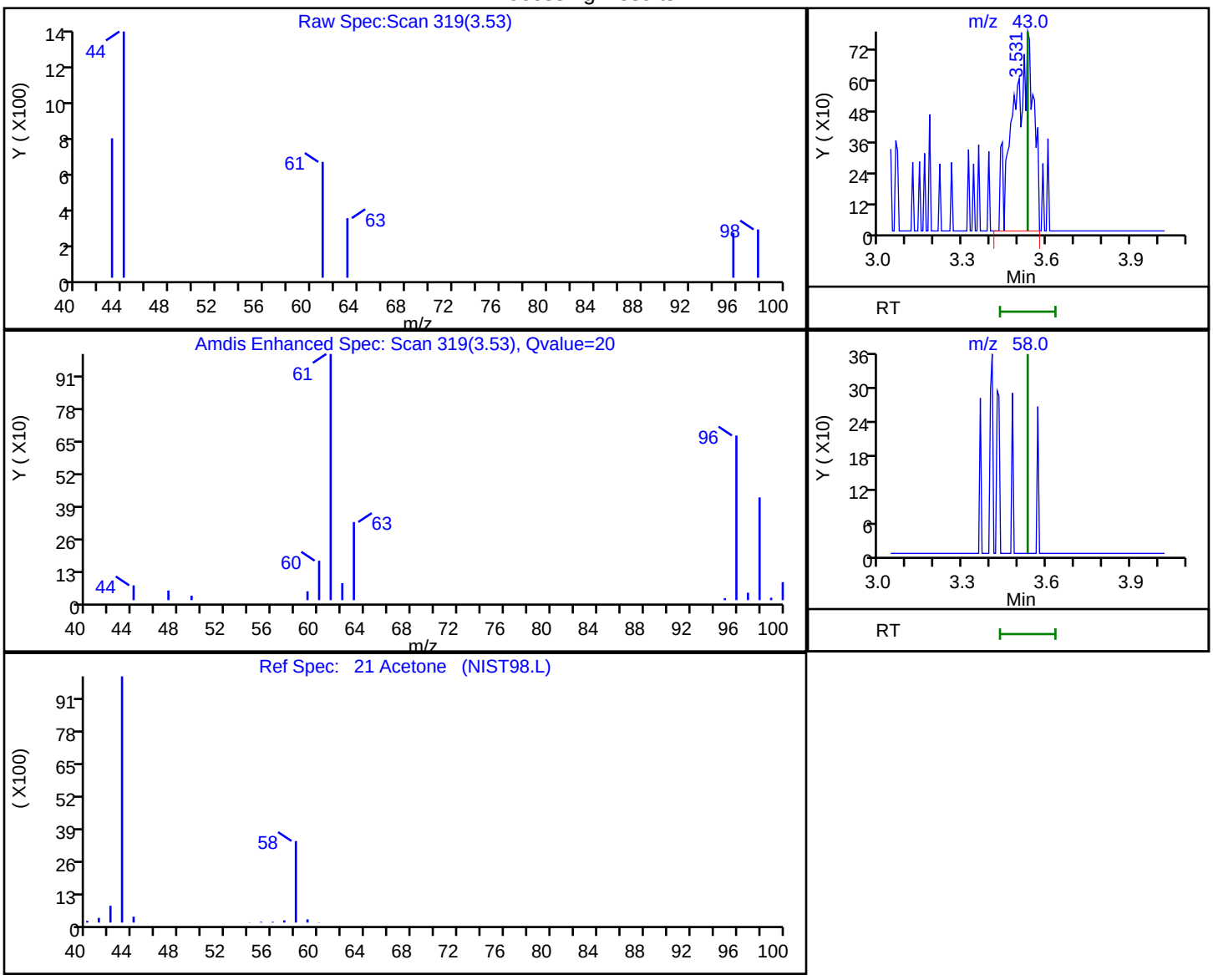
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X30.D				
Injection Date:	28-Jun-2022 20:47:30	Instrument ID:	16334		
Lims ID:	410-88520-A-13	Lab Sample ID:	410-88520-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.53	43.00	3855	0.615751
3.53	58.00	0	

Reviewer: kaewrungrueangp, 29-Jun-2022 14:15:44

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

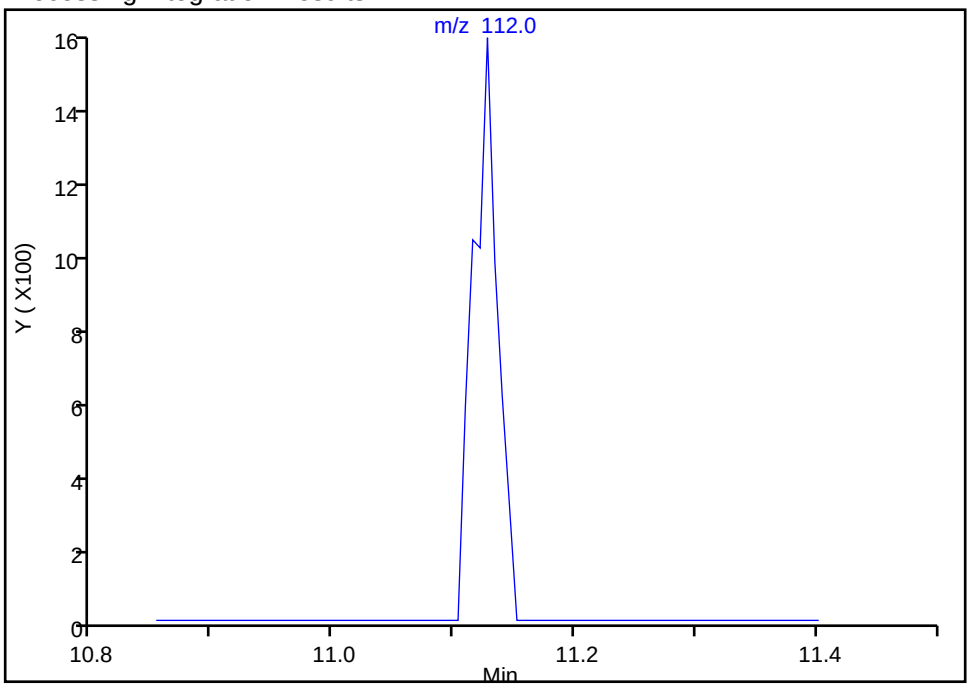
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X30.D				
Injection Date:	28-Jun-2022 20:47:30	Instrument ID:	16334		
Lims ID:	410-88520-A-13	Lab Sample ID:	410-88520-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

108 Chlorobenzene, CAS: 108-90-7

Signal: 1

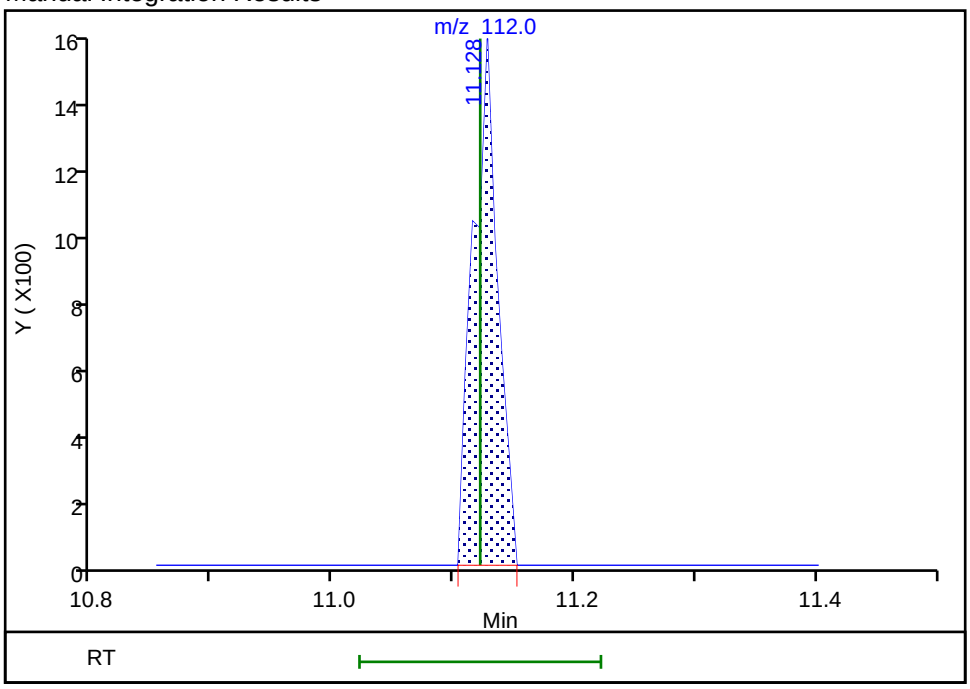
Not Detected
Expected RT: 11.12

Processing Integration Results



Manual Integration Results

RT: 11.13
Area: 2224
Amount: 0.014908
Amount Units: ug/l



Reviewer: kaewrungrueangp, 29-Jun-2022 14:16:25
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

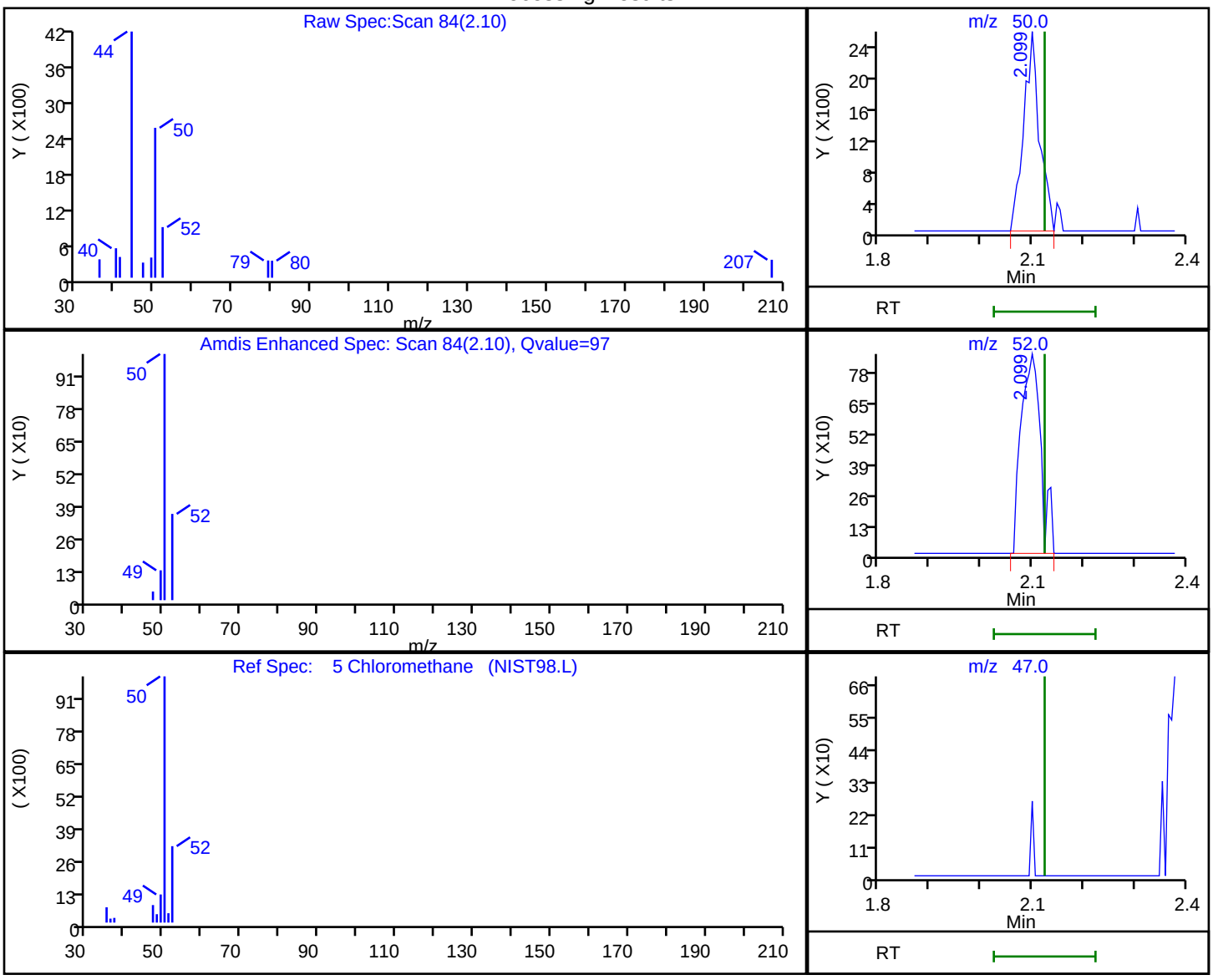
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X30.D				
Injection Date:	28-Jun-2022 20:47:30	Instrument ID:	16334		
Lims ID:	410-88520-A-13	Lab Sample ID:	410-88520-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	30	Worklist Smp#:	31
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

5 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
2.10	50.00	5464	0.100176
2.10	52.00	2286	
2.12	47.00	0	

Reviewer: kaewrungrueangp, 29-Jun-2022 14:15:38

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.: 410-88520-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1 DL Lab Sample ID: 410-88520-13 DL

Matrix: Water Lab File ID: IU30X31.D

Analysis Method: 8260D Date Collected: 06/21/2022 12:00

Sample wt/vol: 25(mL) Date Analyzed: 06/30/2022 20:15

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.: 271084 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	77		5.0	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	105		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220630-60785.b\IU30X31.D
Lims ID: 410-88520-B-13 DL
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 30-Jun-2022 20:15:30 ALS Bottle#: 31 Worklist Smp#: 32
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0060785-032
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220630-60785.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Jul-2022 13:44:46 Calib Date: 15-Mar-2022 03:22:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1644

First Level Reviewer: innoonk Date: 01-Jul-2022 13:44:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.166				ND	
5 Vinyl chloride	62		2.282				ND	7
7 Bromomethane	94		2.623				ND	
8 Chloroethane	64		2.696				ND	
14 1,1-Dichloroethene	96	3.568	3.562	0.006	93	3116	0.0458	
15 Acetone	43		3.586				ND	7
19 Carbon disulfide	76		3.861				ND	7
23 Methylene Chloride	84		4.226				ND	
* 24 t-Butyl alcohol-d10 (IS)	65	4.239	4.239	0.000	23	199552	50.0	
27 Methyl tert-butyl ether	73		4.629				ND	
28 trans-1,2-Dichloroethene	96		4.647				ND	
31 1,1-Dichloroethane	63	5.306	5.299	0.007	94	15298	0.1157	
36 2-Butanone (MEK)	43		6.086				ND	
37 cis-1,2-Dichloroethene	96	6.135	6.129	0.007	78	31110	0.3526	
43 Chlorobromomethane	128		6.458				ND	
45 Chloroform	83		6.604				ND	7
$ 46 Dibromofluoromethane (Surr)	113	6.824	6.817	0.007	94	666238	9.48	
47 1,1,1-Trichloroethane	97	6.836	6.836	0.000	40	79158	0.5733	
50 Carbon tetrachloride	117		7.043				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.275	7.275	0.000	67	138195	11.0	
54 Benzene	78		7.305				ND	
56 1,2-Dichloroethane	62		7.372				ND	
* 58 Fluorobenzene (IS)	96	7.708	7.707	0.001	99	2595814	10.0	
61 Trichloroethene	95	8.189	8.183	0.006	96	43620	0.4964	
63 1,2-Dichloropropane	63		8.512				ND	
68 Dichlorobromomethane	83		8.854				ND	
73 cis-1,3-Dichloropropene	75		9.402				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.567				ND	7
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	94	2583686	10.5	
76 Toluene	92		9.780				ND	
78 trans-1,3-Dichloropropene	75		10.036				ND	
80 1,1,2-Trichloroethane	97		10.237				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
81 Tetrachloroethene	166	10.335	10.329	0.006	98	845701	7.72	
83 2-Hexanone	43		10.451				ND	
85 Chlorodibromomethane	129		10.615				ND	
86 Ethylene Dibromide	107		10.731				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	2020226	10.0	
90 Chlorobenzene	112		11.182				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.262				ND	
92 Ethylbenzene	91		11.268				ND	
93 m-Xylene & p-Xylene	106		11.384				ND	
94 o-Xylene	106		11.713				ND	
95 Styrene	104		11.725				ND	
96 Bromoform	173		11.883				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.158	12.158	0.000	93	913809	9.58	
101 1,1,2,2-Tetrachloroethane	83		12.255				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	94	1096682	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

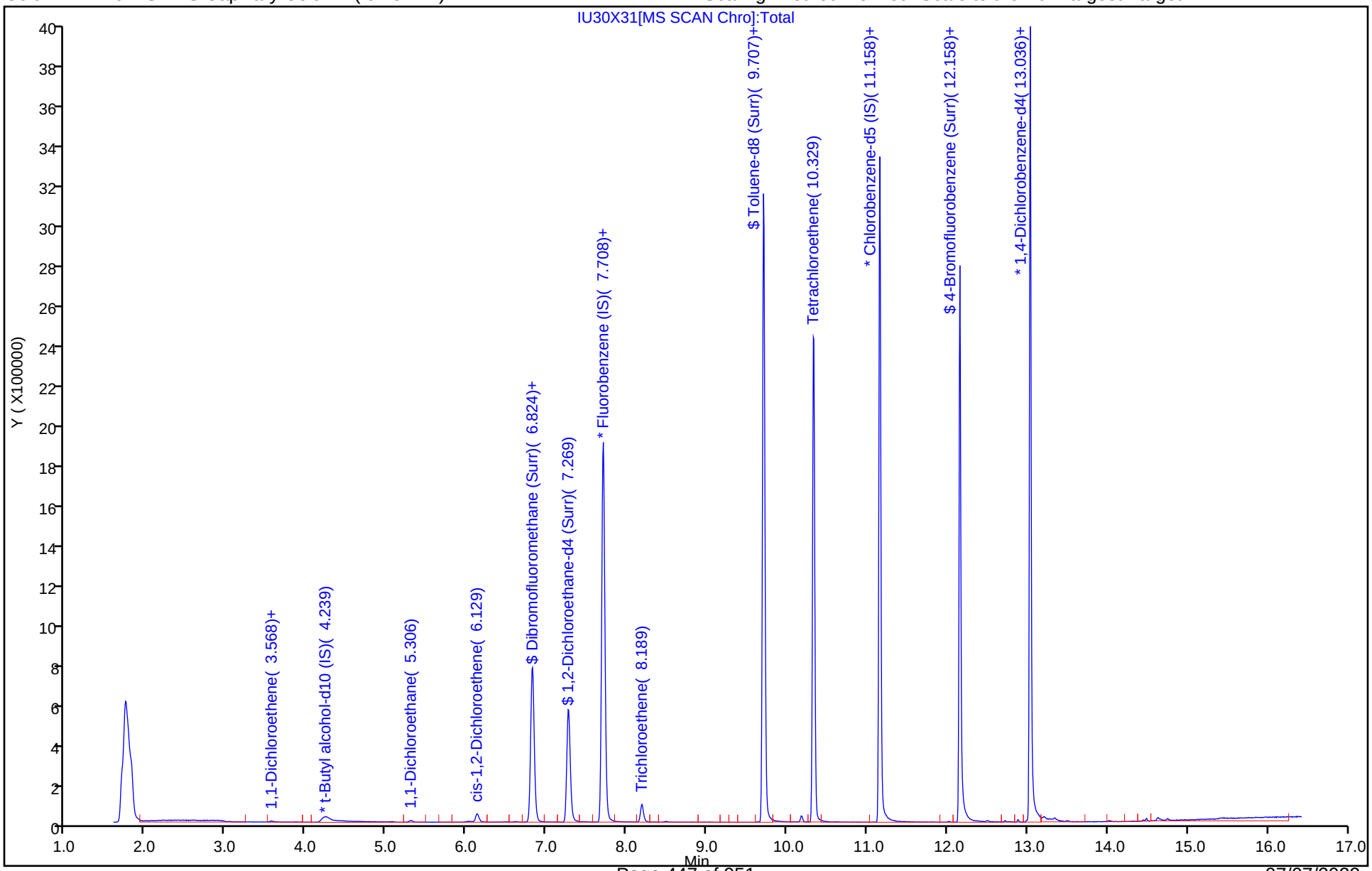
MSV_LLcentISS_00004 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 01-Jul-2022 13:44:46 Chrom Revision: 2.3 30-Jun-2022 19:48:52

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220630-60785.b\IU30X31.D				
Injection Date:	30-Jun-2022 20:15:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	410-88520-B-13 DL	Lab Sample ID:	410-88520-13	Worklist Smp#:	32
Client ID:	HD-QC1-0/1-1				
Purge Vol:	25.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	31
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\20220630-60785.b\IU30X31.D
Lims ID: 410-88520-B-13 DL
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 30-Jun-2022 20:15:30 ALS Bottle#: 31 Worklist Smp#: 32
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0060785-032
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220630-60785.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 01-Jul-2022 13:44:46 Calib Date: 15-Mar-2022 03:22:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1644

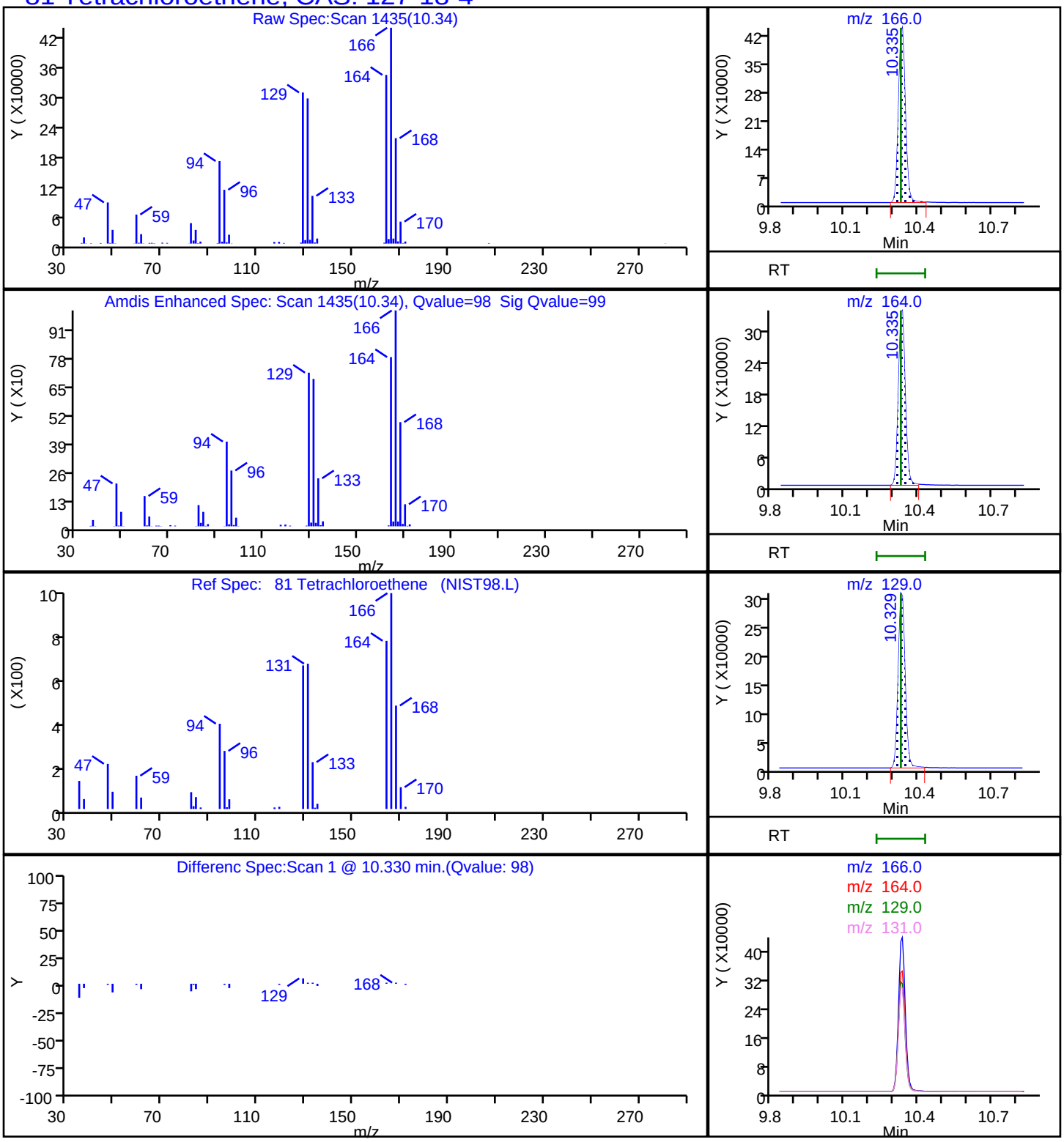
First Level Reviewer: innoonk Date: 01-Jul-2022 13:44:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	9.48	94.81
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	11.0	110.40
$ 75 Toluene-d8 (Surr)	10.0	10.5	105.09
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.58	95.85

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20220630-60785.b\IU30X31.D				
Injection Date:	30-Jun-2022 20:15:30	Instrument ID:	19930		
Lims ID:	410-88520-B-13 DL	Lab Sample ID:	410-88520-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	31	Worklist Smp#:	32
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)	Detector	MS Quad		

81 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: HD-QC1-0/1-2 Lab Sample ID: 410-88520-14

Matrix: Water Lab File ID: GU28X06.D

Analysis Method: 8260D Date Collected: 06/21/2022 00:00

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 11:58

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 270125 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	2.1	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		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	0.10	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	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	0.16	J	0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: HD-QC1-0/1-2 Lab Sample ID: 410-88520-14

Matrix: Water Lab File ID: GU28X06.D

Analysis Method: 8260D Date Collected: 06/21/2022 00:00

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 11:58

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 270125 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)	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)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X06.D
Lims ID: 410-88520-A-14
Client ID: HD-QC1-0/1-2
Sample Type: Client
Inject. Date: 28-Jun-2022 11:58:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060580-007
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Jun-2022 13:53:31 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 13:53:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.093	2.123	-0.030	48	5552	0.1045	
8 Vinyl chloride	62		2.233				ND	
9 Bromomethane	94		2.562				ND	
10 Chloroethane	64		2.641				ND	7
19 1,1-Dichloroethene	96		3.471				ND	
21 Acetone	43	3.519	3.532	-0.013	79	17876	2.14	
25 Carbon disulfide	76		3.763				ND	7
29 Methylene Chloride	84		4.123				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.196	4.190	0.006	70	181574	50.0	
33 Methyl tert-butyl ether	73		4.525				ND	
34 trans-1,2-Dichloroethene	96		4.525				ND	
37 1,1-Dichloroethane	63		5.190				ND	
41 2-Butanone (MEK)	43		6.001				ND	U
42 cis-1,2-Dichloroethene	96		6.031				ND	
49 Chlorobromomethane	128		6.360				ND	
51 Chloroform	83		6.513				ND	
$ 52 Dibromofluoromethane (Surr)	113	6.720	6.726	-0.006	94	499708	10.9	
53 1,1,1-Trichloroethane	97		6.738				ND	
56 Carbon tetrachloride	117		6.939				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.171	7.177	-0.006	41	106221	10.9	
60 Benzene	78	7.202	7.208	-0.006	52	6770	0.0380	
61 1,2-Dichloroethane	62		7.281				ND	
* 64 Fluorobenzene (IS)	96	7.610	7.616	-0.006	99	1915782	10.0	
68 Trichloroethene	95		8.092				ND	
70 1,2-Dichloropropane	63		8.427				ND	
76 Dichlorobromomethane	83		8.774				ND	
81 cis-1,3-Dichloropropene	75		9.323				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.500				ND	
$ 83 Toluene-d8 (Surr)	98	9.628	9.634	-0.006	93	1929045	9.90	
84 Toluene	92	9.707	9.707	0.000	97	19880	0.1641	
96 trans-1,3-Dichloropropene	75		9.969				ND	
99 1,1,2-Trichloroethane	97		10.177				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
100 Tetrachloroethene	166		10.262				ND	
102 2-Hexanone	43		10.396				ND	7
104 Chlorodibromomethane	129		10.555				ND	
105 Ethylene Dibromide	107		10.664				ND	
* 106 Chlorobenzene-d5 (IS)	117	11.097	11.097	0.000	84	1521050	10.0	
108 Chlorobenzene	112		11.122				ND	
110 1,1,1,2-Tetrachloroethane	131		11.207				ND	
111 Ethylbenzene	91		11.213				ND	7
S 109 Xylenes, Total	106				0		0.1070	
112 m-Xylene & p-Xylene	106	11.323	11.323	0.000	97	5468	0.0600	
113 o-Xylene	106	11.658	11.652	0.006	94	4264	0.0470	
114 Styrene	104		11.670				ND	
115 Bromoform	173		11.829				ND	
$ 119 4-Bromofluorobenzene (Surr)	95	12.097	12.097	0.000	94	684640	9.32	
120 1,1,2,2-Tetrachloroethane	83		12.201				ND	
* 134 1,4-Dichlorobenzene-d4	152	12.975	12.975	0.000	94	869996	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

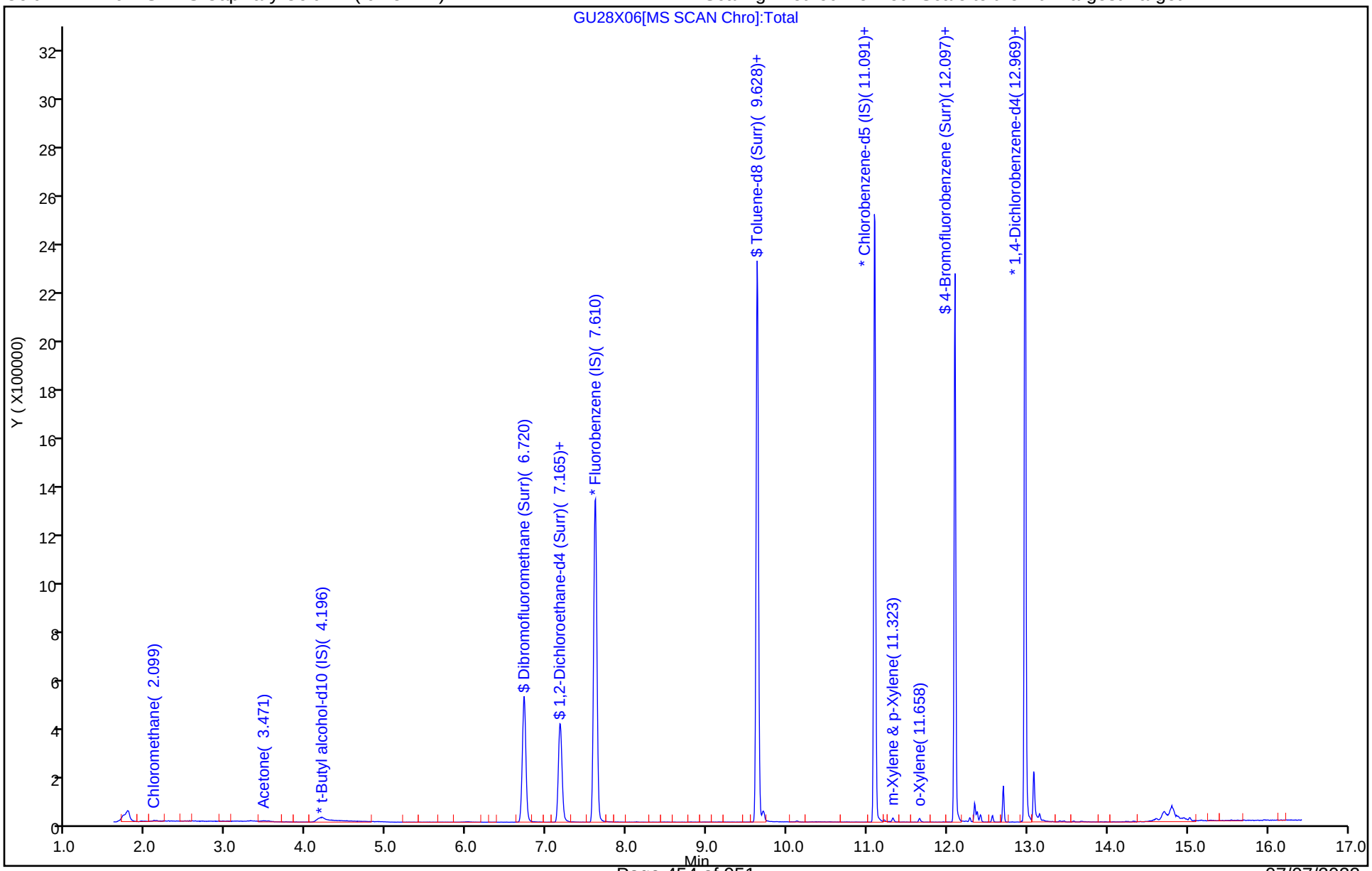
MSV_29_826ISS_00034 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 29-Jun-2022 13:53:31 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X06.D				
Injection Date:	28-Jun-2022 11:58:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-88520-A-14	Lab Sample ID:	410-88520-14	Worklist Smp#:	7
Client ID:	HD-QC1-0/1-2				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X06.D				
Lims ID:	410-88520-A-14				
Client ID:	HD-QC1-0/1-2				
Sample Type:	Client				
Inject. Date:	28-Jun-2022 11:58:30	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0060580-007				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	29-Jun-2022 13:53:31	Calib Date:	10-Jan-2022 23:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1674				

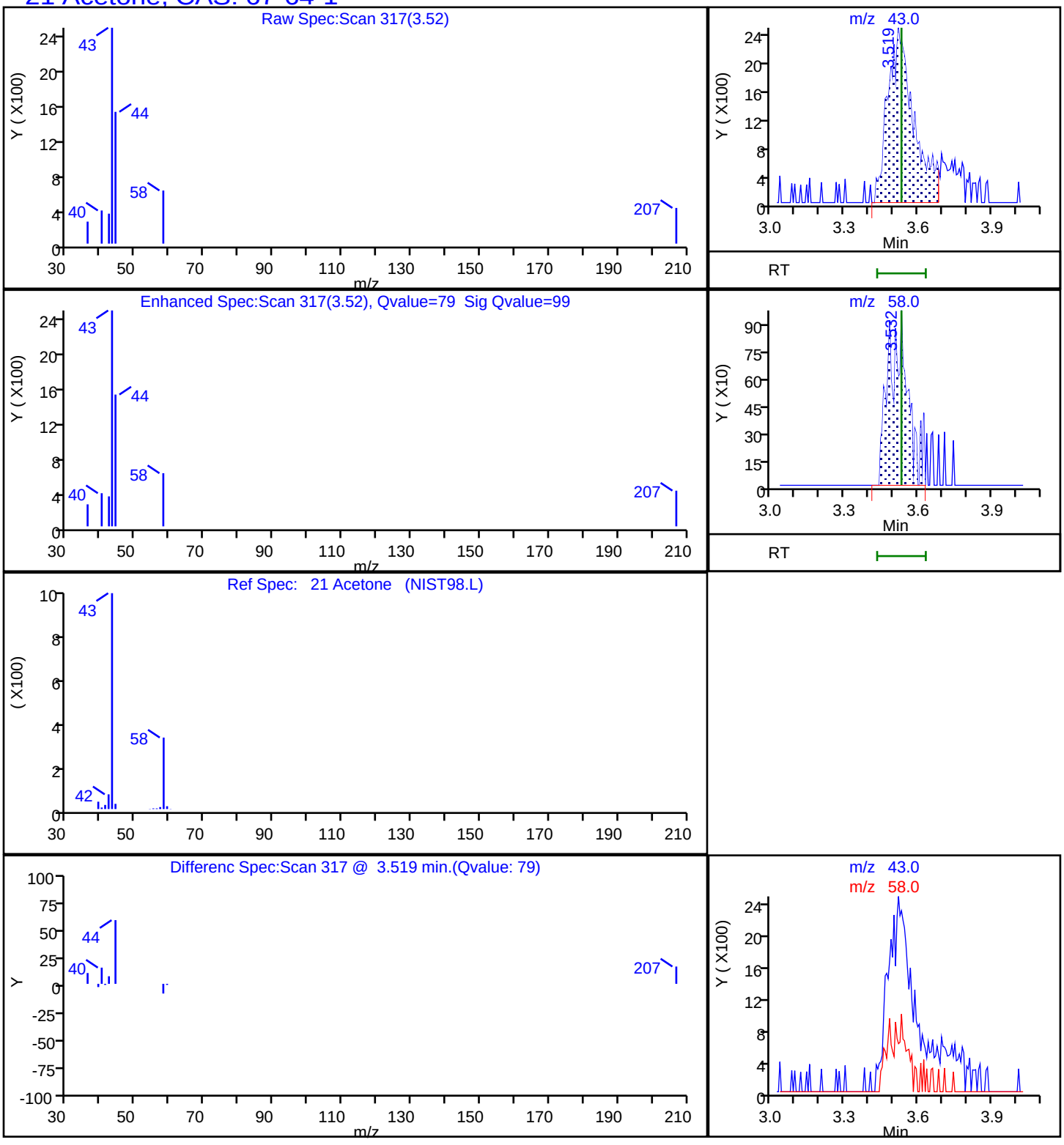
First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 13:53:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.9	108.68
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.9	109.30
$ 83 Toluene-d8 (Surr)	10.0	9.90	99.05
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.32	93.16

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X06.D				
Injection Date:	28-Jun-2022 11:58:30	Instrument ID:	16334		
Lims ID:	410-88520-A-14	Lab Sample ID:	410-88520-14		
Client ID:	HD-QC1-0/1-2				
Operator ID:	knk41612	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Acetone, CAS: 67-64-1

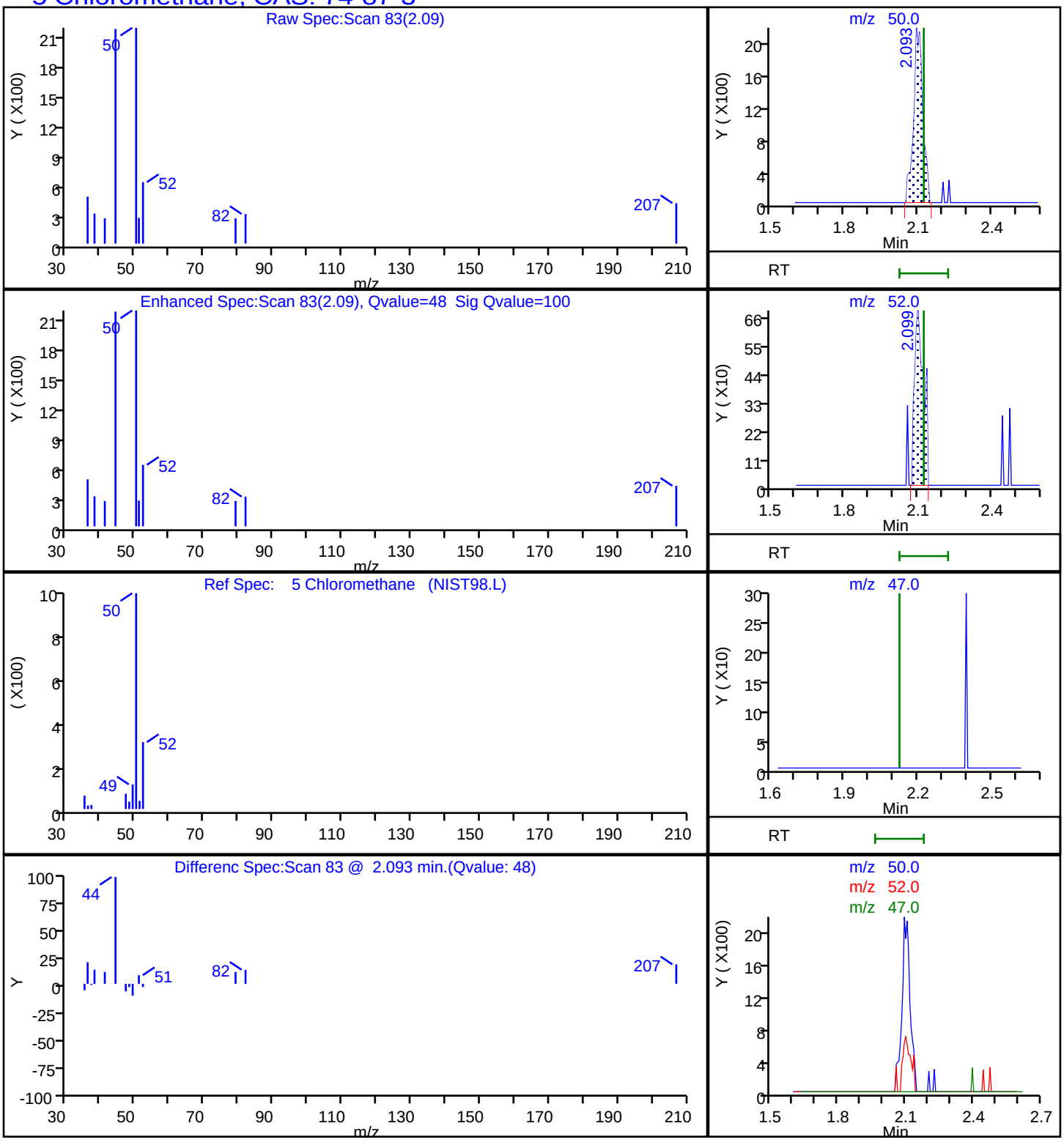


Report Date: 29-Jun-2022 13:53:31 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X06.D				
Injection Date:	28-Jun-2022 11:58:30	Instrument ID:	16334		
Lims ID:	410-88520-A-14	Lab Sample ID:	410-88520-14		
Client ID:	HD-QC1-0/1-2				
Operator ID:	knk41612	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

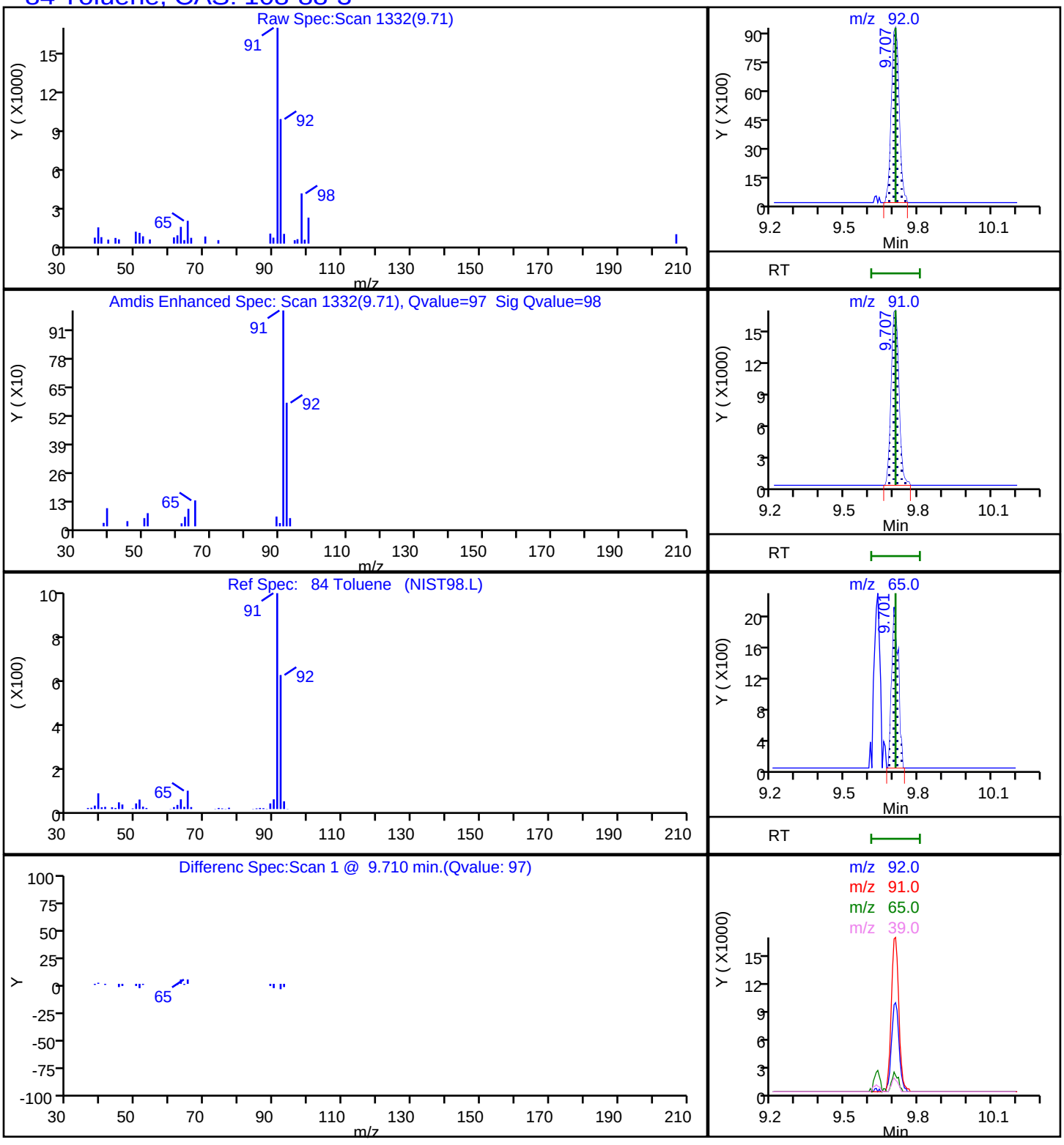
5 Chloromethane, CAS: 74-87-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X06.D				
Injection Date:	28-Jun-2022 11:58:30	Instrument ID:	16334		
Lims ID:	410-88520-A-14	Lab Sample ID:	410-88520-14		
Client ID:	HD-QC1-0/1-2				
Operator ID:	knk41612	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

84 Toluene, CAS: 108-88-3



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

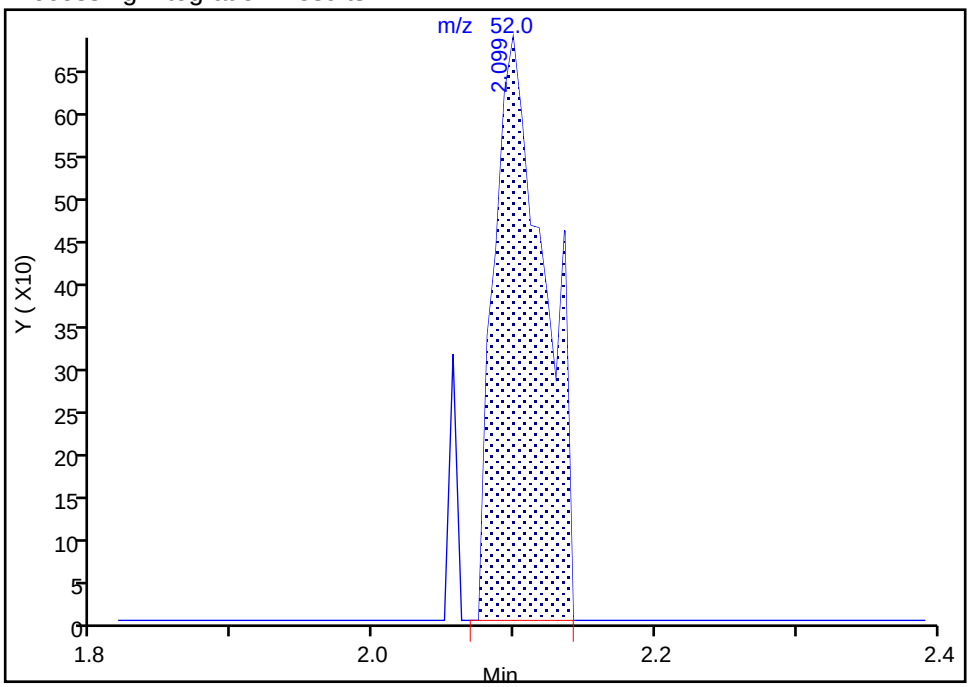
Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X06.D				
Injection Date:	28-Jun-2022 11:58:30	Instrument ID:	16334		
Lims ID:	410-88520-A-14	Lab Sample ID:	410-88520-14		
Client ID:	HD-QC1-0/1-2				
Operator ID:	knk41612	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

5 Chloromethane, CAS: 74-87-3

Signal: 2

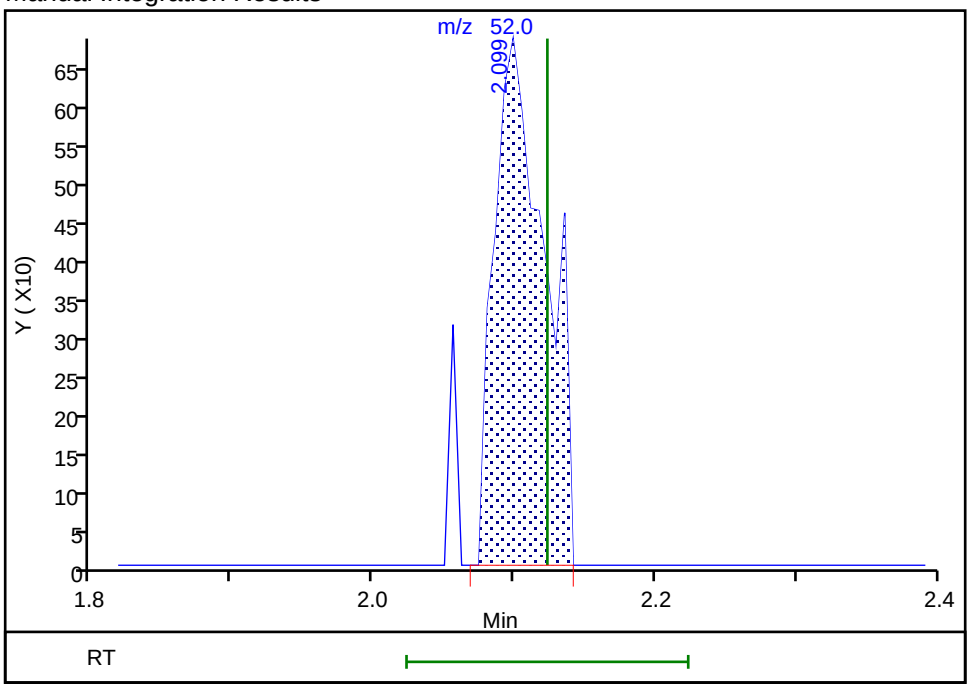
Processing Integration Results

RT: 2.10
Area: 1717
Amount: 0.104550
Amount Units: ug/l



Manual Integration Results

RT: 2.10
Area: 1717
Amount: 0.104550
Amount Units: ug/l



Reviewer: kaewrungrueangp, 29-Jun-2022 13:52:36

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 Env Job No.: 410-88520-1 Analy Batch No.: 213100

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2022 21:33 Calibration End Date: 01/10/2022 23:46 Calibration ID: 34663

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-213100/17	GJ10X17.D
Level 2	IC 410-213100/16	GJ10X16.D
Level 3	IC 410-213100/15	GJ10X15.D
Level 4	IC 410-213100/14	GJ10X14.D
Level 5	IC 410-213100/13	GJ10X13.D
Level 6	ICIS 410-213100/12	GJ10X12.D
Level 7	IC 410-213100/11	GJ10X11.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.2438 0.2539	0.2132 0.2480	0.2413	0.2423	0.2555	Ave		0.2426			0.1000	5.8		20.0			
Chloromethane	0.3027 0.2800	0.2661 0.2655	0.2763	0.2704	0.2793	Ave		0.2772			0.1000	4.6		20.0			
Vinyl chloride	0.2872 0.2942	0.2760 0.2873	0.2789	0.2823	0.3023	Ave		0.2869			0.1000	3.2		20.0			
1,3-Butadiene	0.3728 0.2743	0.2957 0.2603	0.2962	0.2881	0.2865	Ave		0.2963				12.2		20.0			
Bromomethane	0.2278 0.2140	0.2039 0.2088	0.2031	0.2083	0.2116	Ave		0.2111			0.1000	3.9		20.0			
Chloroethane	0.1885 0.1730	0.1614 0.1692	0.1602	0.1662	0.1763	Ave		0.1707			0.1000	5.7		20.0			
Dichlorofluoromethane	0.4255 0.3998	0.3831 0.3901	0.3785	0.3902	0.4120	Ave		0.3970			0.1000	4.2		20.0			
Trichlorofluoromethane	0.3916 0.3965	0.3523 0.3847	0.3722	0.3880	0.4070	Ave		0.3846			0.1000	4.6		20.0			
Ethyl ether	0.1627 0.1777	0.1559 0.1717	0.1636	0.1673	0.1782	Ave		0.1682				4.9		20.0			
Freon 123a	0.3031 0.2722	0.2554 0.2656	0.2660	0.2702	0.2817	Ave		0.2735				5.6		20.0			
Acrolein	2.0991 2.1831	1.9545 2.1647	1.9772	2.0018	2.1758	Ave		2.0795				4.8		20.0			
1,1-Dichloroethene	0.2015 0.2113	0.2011 0.2094	0.2051	0.2108	0.2140	Ave		0.2076			0.1000	2.4		20.0			
Freon 113	0.1829 0.2148	0.2045 0.2156	0.2055	0.2106	0.2182	Ave		0.2074			0.1000	5.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 213100

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2022 21:33 Calibration End Date: 01/10/2022 23:46 Calibration ID: 34663

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	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								
Acetone	2.5270 2.3586	2.1510 2.2508	2.4546	2.0551	2.2914	Ave		2.2984			0.1000	7.2		20.0			
Methyl iodide	0.3487 0.3702	0.3553 0.3634	0.3544	0.3638	0.3716	Ave		0.3611				2.4		20.0			
Carbon disulfide	0.4679 0.5677	0.4782 0.5748	0.5007	0.5239	0.5579	Ave		0.5244			0.1000	8.3		20.0			
Methyl acetate	7.7655 6.4426	7.5560 6.8365	5.5758	6.1669	7.0238	Ave		6.7667			0.1000	11.4		20.0			
Allyl chloride	0.2838 0.3045	0.2857 0.3056	0.2941	0.2941	0.3018	Ave		0.2957				3.0		20.0			
Methylene Chloride	0.2162 0.2291	0.2125 0.2265	0.2233	0.2288	0.2311	Ave		0.2239			0.1000	3.2		20.0			
t-Butyl alcohol	0.8081 0.8843	0.9383 0.9024	1.0129	0.8558	0.9346	Ave		0.9052				7.3		20.0			
Acrylonitrile	2.4178 3.4284	2.6914 3.3216	3.1221	3.0785	3.3515	Ave		3.0587				12.2		20.0			
Methyl tert-butyl ether	0.5493 0.5862	0.5616 0.5652	0.5556	0.5708	0.5867	Ave		0.5679			0.1000	2.5		20.0			
trans-1,2-Dichloroethene	0.2211 0.2360	0.2222 0.2334	0.2242	0.2340	0.2373	Ave		0.2297			0.1000	3.0		20.0			
n-Hexane	0.2709 0.2970	0.2817 0.3086	0.2968	0.2894	0.3099	Ave		0.2935				4.8		20.0			
1,1-Dichloroethane	0.3757 0.4029	0.3760 0.4009	0.3810	0.3892	0.3978	Ave		0.3891			0.2000	3.0		20.0			
di-Isopropyl ether	0.6318 0.6949	0.6408 0.6972	0.6600	0.6860	0.7031	Ave		0.6734				4.3		20.0			
2-Chloro-1,3-butadiene	0.2977 0.3255	0.2942 0.3276	0.3027	0.3173	0.3263	Ave		0.3130				4.6		20.0			
Ethyl t-butyl ether	0.6223 0.6833	0.6337 0.6720	0.6435	0.6659	0.6861	Ave		0.6581				3.8		20.0			
2-Butanone (MEK)	4.3064 4.7757	4.2159 4.7908	4.4148	4.3659	4.7177	Ave		4.5125			0.1000	5.4		20.0			
cis-1,2-Dichloroethene	0.2465 0.2561	0.2420 0.2552	0.2474	0.2520	0.2598	Ave		0.2513			0.1000	2.5		20.0			
2,2-Dichloropropane	0.2563 0.3113	0.2748 0.3144	0.2856	0.2914	0.3082	Ave		0.2917				7.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 213100

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2022 21:33 Calibration End Date: 01/10/2022 23:46 Calibration ID: 34663

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	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								
Propionitrile	1.0039 1.3030	1.1139 1.2287	1.1921	1.1876	1.2389	Ave		1.1812				8.2		20.0			
Methacrylonitrile	3.9919 4.6607	4.0859 4.7379	4.1827	4.2429	4.5882	Ave		4.3557				6.9		20.0			
Bromochloromethane	0.1016 0.1186	0.1059 0.1176	0.1130	0.1150	0.1191	Ave		0.1130				6.0		20.0			
Tetrahydrofuran	1.2030 1.3483	1.1495 1.3700	1.2461	1.2480	1.3506	Ave		1.2736				6.6		20.0			
Chloroform	0.3869 0.4042	0.3757 0.4047	0.3851	0.4029	0.4100	Ave		0.3957			0.2000	3.3		20.0			
1,1,1-Trichloroethane	0.3118 0.3505	0.3233 0.3530	0.3295	0.3431	0.3563	Ave		0.3382			0.1000	5.0		20.0			
Cyclohexane	0.3207 0.3771	0.3542 0.3885	0.3644	0.3677	0.3893	Ave		0.3660			0.1000	6.5		20.0			
Carbon tetrachloride	0.2549 0.3104	0.2703 0.3162	0.2853	0.2960	0.3099	Ave		0.2919			0.1000	7.9		20.0			
1,1-Dichloropropene	0.2964 0.3209	0.2832 0.3230	0.3019	0.3109	0.3258	Ave		0.3089				5.1		20.0			
Isobutyl alcohol	0.0046 0.0050	0.0044 0.0048	0.0047	0.0048	0.0051	Ave		0.0048				4.6		20.0			
Benzene	0.8942 0.9547	0.8931 0.9490	0.9098	0.9468	0.9583	Ave		0.9294			0.5000	3.1		20.0			
1,2-Dichloroethane	0.2573 0.2567	0.2481 0.2483	0.2460	0.2488	0.2587	Ave		0.2520			0.1000	2.1		20.0			
t-Amyl methyl ether	0.5615 0.6340	0.5858 0.6219	0.5882	0.6213	0.6343	Ave		0.6067				4.7		20.0			
n-Heptane	0.2999 0.3004	0.2936 0.3188	0.3057	0.3037	0.3116	Ave		0.3048				2.7		20.0			
n-Butanol	0.2334 0.3380	0.2507 0.3477	0.2790	0.2976	0.3315	Ave		0.2969				15.0		20.0			
Trichloroethene	0.2487 0.2544	0.2401 0.2553	0.2404	0.2485	0.2569	Ave		0.2492			0.2000	2.8		20.0			
Methylcyclohexane	0.3761 0.4269	0.3864 0.4356	0.4040	0.4110	0.4363	Ave		0.4109			0.1000	5.8		20.0			
1,2-Dichloropropane	0.2183 0.2442	0.2198 0.2445	0.2313	0.2387	0.2453	Ave		0.2346			0.1000	5.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 213100

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2022 21:33 Calibration End Date: 01/10/2022 23:46 Calibration ID: 34663

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	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								
Methyl methacrylate	6.5817 9.3526	7.4354 9.6435	7.8997	8.1546	9.0027	Ave		8.2958				13.3		20.0			
Dibromomethane	0.1082 0.1257	0.1132 0.1229	0.1155	0.1205	0.1242	Ave		0.1186				5.4		20.0			
1,4-Dioxane	+++++ 0.0704	0.0406 0.0752	0.0559	0.0671	0.0683	Ave		0.0629			0.0050	20.1	*	20.0			
Bromodichloromethane	0.2329 0.2931	0.2505 0.2949	0.2563	0.2759	0.2902	Ave		0.2705			0.2000	9.0		20.0			
2-Nitropropane	1.5510 2.1668	1.5492 2.3019	1.6246	1.7336	2.0535	Ave		1.8544				16.9		20.0			
cis-1,3-Dichloropropene	0.2890 0.3730	0.3067 0.3792	0.3193	0.3451	0.3660	Ave		0.3397			0.2000	10.4		20.0			
4-Methyl-2-pentanone (MIBK)	10.001 11.791	10.074 11.950	10.396	10.743	11.621	Ave		10.939			0.1000	7.6		20.0			
Toluene	0.7771 0.8151	0.7745 0.8095	0.7862	0.8030	0.8104	Ave		0.7965			0.4000	2.1		20.0			
trans-1,3-Dichloropropene	0.3137 0.4124	0.3272 0.4200	0.3373	0.3721	0.3935	Ave		0.3680			0.1000	11.6		20.0			
Ethyl methacrylate	0.2688 0.3660	0.3044 0.3609	0.3160	0.3406	0.3566	Ave		0.3305				10.8		20.0			
1,1,2-Trichloroethane	0.2246 0.2418	0.2233 0.2399	0.2266	0.2371	0.2414	Ave		0.2335			0.1000	3.6		20.0			
Tetrachloroethene	0.3518 0.3802	0.3643 0.3850	0.3572	0.3772	0.3792	Ave		0.3707			0.2000	3.5		20.0			
1,3-Dichloropropane	0.3749 0.4156	0.3742 0.4095	0.3867	0.3967	0.4079	Ave		0.3951				4.3		20.0			
2-Hexanone	6.8467 8.6527	7.1030 8.8503	7.3806	7.7628	8.4440	Ave		7.8629			0.1000	10.1		20.0			
Dibromochloromethane	0.2208 0.2925	0.2317 0.3000	0.2472	0.2647	0.2824	Ave		0.2628				11.7		20.0			
1,2-Dibromoethane (EDB)	0.2005 0.2403	0.2067 0.2380	0.2210	0.2300	0.2396	Ave		0.2251			0.1000	7.2		20.0			
1-Chlorohexane	0.4750 0.4535	0.4487 0.4617	0.4404	0.4473	0.4613	Ave		0.4554				2.5		20.0			
Chlorobenzene	0.9015 0.9482	0.9023 0.9500	0.9036	0.9228	0.9496	Ave		0.9254			0.5000	2.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 213100

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2022 21:33 Calibration End Date: 01/10/2022 23:46 Calibration ID: 34663

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	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								
1,1,1,2-Tetrachloroethane	0.2718 0.3321	0.2848 0.3395	0.2917	0.3090	0.3221	Ave		0.3073				8.3		20.0			
Ethylbenzene	1.4804 1.6024	1.4962 1.6097	1.5199	1.5695	1.6045	Ave		1.5547			0.1000	3.5		20.0			
m&p-Xylene	0.5471 0.6262	0.5706 0.6334	0.5918	0.6031	0.6242	Ave		0.5995			0.1000	5.3		20.0			
o-Xylene	0.5618 0.6255	0.5672 0.6259	0.5754	0.5998	0.6193	Ave		0.5964			0.3000	4.7		20.0			
Styrene	0.8916 1.0727	0.9551 1.0719	0.9823	1.0343	1.0564	Ave		1.0092			0.3000	6.8		20.0			
Bromoform	0.1170 0.1821	0.1329 0.1866	0.1458	0.1604	0.1720	Ave		0.1567			0.1000	16.6		20.0			
Isopropylbenzene	1.4258 1.5956	1.4443 1.5991	1.5160	1.5505	1.6037	Ave		1.5336			0.1000	4.9		20.0			
1,1,2,2-Tetrachloroethane	0.5376 0.5817	0.5220 0.5554	0.5368	0.5605	0.5758	Ave		0.5528			0.3000	4.0		20.0			
Bromobenzene	0.6808 0.7151	0.6775 0.7022	0.6792	0.7094	0.7181	Ave		0.6975				2.6		20.0			
trans-1,4-Dichloro-2-butene	2.8848 4.2536	3.1001 4.5747	3.3313	3.5926	4.0573	Ave		3.6849				17.1		20.0			
1,2,3-Trichloropropane	0.1392 0.1527	0.1412 0.1473	0.1398	0.1521	0.1545	Ave		0.1467				4.5		20.0			
N-Propylbenzene	3.1846 3.3750	3.1910 3.3195	3.2579	3.3498	3.4111	Ave		3.2984				2.7		20.0			
2-Chlorotoluene	0.6526 0.7088	0.6671 0.6984	0.6725	0.6926	0.7071	Ave		0.6856				3.2		20.0			
1,3,5-Trimethylbenzene	2.2468 2.4489	2.2302 2.4213	2.2879	2.3896	2.4618	Ave		2.3552				4.2		20.0			
4-Chlorotoluene	0.6703 0.7338	0.6688 0.7251	0.7186	0.7245	0.7338	Ave		0.7107				4.0		20.0			
tert-Butylbenzene	0.5382 0.5366	0.5224 0.5334	0.5080	0.5230	0.5549	Ave		0.5309				2.8		20.0			
Pentachloroethane	0.3522 0.4575	0.3515 0.4605	0.3807	0.3984	0.4478	Ave		0.4069				11.8		20.0			
1,2,4-Trimethylbenzene	2.2664 2.5331	2.3336 2.5095	2.3771	2.4843	2.5404	Ave		2.4349				4.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 213100

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2022 21:33 Calibration End Date: 01/10/2022 23:46 Calibration ID: 34663

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	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								
sec-Butylbenzene	2.8420 3.1047	2.8447 3.0595	2.9688	3.0578	3.1315	Ave		3.0013				4.0		20.0			
1,3-Dichlorobenzene	1.3740 1.4611	1.3427 1.4493	1.4064	1.4347	1.4601	Ave		1.4183			0.6000	3.2		20.0			
p-Isopropyltoluene	2.5114 2.7999	2.5386 2.7818	2.6293	2.7290	2.7972	Ave		2.6839				4.6		20.0			
1,4-Dichlorobenzene	1.4633 1.4903	1.3951 1.4757	1.3964	1.4604	1.4926	Ave		1.4534			0.5000	2.8		20.0			
1,2,3-Trimethylbenzene	1.1101 1.1346	1.0943 1.1268	1.0790	1.1133	1.1267	Ave		1.1121				1.8		20.0			
Benzyl chloride	+++++ 0.2051	0.1161 0.2173	0.1325	0.1628	0.1878	Lin2	-0.050	0.2020							0.9910		0.9900
n-Butylbenzene	1.2890 1.4088	1.3084 1.4071	1.3485	1.3782	1.4244	Ave		1.3663				3.9		20.0			
1,2-Dichlorobenzene	1.3106 1.3727	1.3105 1.3550	1.3106	1.3576	1.3841	Ave		1.3430			0.4000	2.4		20.0			
1,2-Dibromo-3-Chloropropane	0.0589 0.0940	0.0707 0.0895	0.0764	0.0833	0.0896	Ave		0.0803			0.0500	15.5		20.0			
1,3,5-Trichlorobenzene	1.0951 1.1923	1.1016 1.1572	1.1330	1.1654	1.1997	Ave		1.1492				3.6		20.0			
1,2,4-Trichlorobenzene	0.9693 1.1050	0.9642 1.0437	0.9999	1.0711	1.0951	Ave		1.0355			0.2000	5.6		20.0			
Hexachlorobutadiene	0.5290 0.5402	0.5188 0.5388	0.5231	0.5363	0.5523	Ave		0.5341				2.1		20.0			
Naphthalene	1.6613 1.9941	1.6748 1.8144	1.7727	1.9027	1.9581	Ave		1.8254				7.2		20.0			
1,2,3-Trichlorobenzene	0.8372 0.9551	0.8455 0.8841	0.9006	0.9425	0.9509	Ave		0.9023				5.5		20.0			
Dibromofluoromethane (Surr)	0.2375 0.2402	0.2411 0.2394	0.2386	0.2404	0.2429	Ave		0.2400				0.7		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0505 0.0504	0.0511 0.0505	0.0505	0.0509	0.0512	Ave		0.0507				0.7		20.0			
Toluene-d8 (Surr)	1.2737 1.2817	1.2851 1.2799	1.2855	1.2805	1.2767	Ave		1.2805				0.3		20.0			
4-Bromofluorobenzene (Surr)	0.4792 0.4857	0.4816 0.4866	0.4839	0.4836	0.4816	Ave		0.4832				0.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 213100

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2022 21:33 Calibration End Date: 01/10/2022 23:46 Calibration ID: 34663

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-213100/17	GJ10X17.D
Level 2	IC 410-213100/16	GJ10X16.D
Level 3	IC 410-213100/15	GJ10X15.D
Level 4	IC 410-213100/14	GJ10X14.D
Level 5	IC 410-213100/13	GJ10X13.D
Level 6	ICIS 410-213100/12	GJ10X12.D
Level 7	IC 410-213100/11	GJ10X11.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	11323 596320	24569 1474697	55621	111528	298690	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	14060 657492	30661 1578852	63701	124496	326474	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	13340 690923	31802 1708155	64287	129985	353361	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	17318 644252	34075 1547422	68278	132629	334856	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	10579 502546	23491 1241528	46824	95894	247309	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	8755 406218	18591 1006157	36930	76496	206063	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	19765 938890	44136 2319349	87261	179630	481604	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	18190 931106	40596 2287324	85803	178611	475696	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	7557 417386	17968 1020988	37710	77005	208265	0.200 10.00	0.500 25.0	1.000	2.00	5.00
Freon 123a	FB	Ave	14078 639315	29426 1579162	61327	124399	329289	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd 10	Ave	71108 3708875	169481 8810768	344858	713124	1871184	10.0 500	25.0 1250	50.0	100	250
1,1-Dichloroethene	FB	Ave	9360 496161	23175 1244821	47293	97045	250158	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 113	FB	Ave	8496 504368	23565 1281755	47383	96935	255101	0.200 10.0	0.500 25.0	1.00	2.00	5.00

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 213100

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2022 21:33 Calibration End Date: 01/10/2022 23:46 Calibration ID: 34663

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
Acetone	TBAd10	Ave	17120 801385	37302 1832140	85621	146411	394112	2.00 100	5.00 250	10.0	20.0	50.0
Methyl iodide	FB	Ave	16198 869505	40938 2160431	81702	167466	434385	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon disulfide	FB	Ave	21733 1333134	55099 3417575	115429	241217	652137	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd10	Ave	5261 218898	13103 556488	19449	43935	120805	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	13181 715208	32922 1817249	67795	135398	352802	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	10044 537951	24481 1346490	51483	105333	270186	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd10	Ave	10950 600947	32543 1469107	70659	121946	321508	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd10	Ave	4095 291211	11668 675928	27226	54830	144111	0.500 25.0	1.25 62.5	2.50	5.00	12.5
Methyl tert-butyl ether	FB	Ave	25515 1376663	64708 3360252	128088	262781	685813	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	10269 554249	25599 1387495	51697	107726	277339	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	12583 697616	32460 1834850	68433	133215	362208	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	17453 946235	43325 2383763	87841	179186	465036	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	29348 1631972	73838 4145327	152167	315800	821866	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	13827 764455	33900 1947920	69785	146063	381424	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	28905 1604726	73012 3995153	148342	306585	802005	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone (MEK)	TBAd10	Ave	29175	73109	153993	311044	811417	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 Env Job No.: 410-88520-1 Analy Batch No.: 213100

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2022 21:33 Calibration End Date: 01/10/2022 23:46 Calibration ID: 34663

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
			1622626	3899670				100	250			
cis-1,2-Dichloroethene	FB	Ave	11450 601374	27880 1517586	57030	116021	303656	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	11903 731185	31657 1869359	65839	134160	360266	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Propionitrile	TBAd 10	Ave	13603 885423	38632 2000312	83166	169215	426166	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd 10	Ave	27044 1583571	70854 3856593	145896	302281	789139	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	4719 278534	12199 699298	26058	52955	139220	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd 10	Ave	4075 229060	9967 557575	21732	44455	116147	1.00 50.0	2.50 125	5.00	10.0	25.0
Chloroform	FB	Ave	17970 949333	43289 2406332	88779	185502	479266	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	14481 823099	37245 2098686	75958	157975	416469	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	14898 885522	40808 2309655	84013	169274	455102	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	11838 729095	31143 1880217	65770	136293	362256	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	13769 753755	32627 1920203	69607	143138	380865	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	FB	Ave	10724 589380	25491 1417711	54751	110421	296010	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	41534 2242097	102898 5642411	209755	435884	1120162	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	11951 602868	28591 1476186	56708	114564	302404	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	26081 1489045	67496 3697650	135598	286020	741413	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	13930 705461	33823 1895448	70465	139797	364280	0.200 10.0	0.500 25.0	1.00	2.00	5.00

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 213100

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2022 21:33 Calibration End Date: 01/10/2022 23:46 Calibration ID: 34663

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Butanol	TBAd 10	Ave	13834 1004953	38039 2476467	85168	185519	498956	17.5 875	43.8 2188	87.5	175	438
Trichloroethene	FB	Ave	11554 597497	27668 1517629	55419	114411	300303	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	17469 1002486	44525 2590170	93133	189202	509979	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	10142 573560	25330 1453725	53318	109890	286725	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl methacrylate	TBAd 10	Ave	4459 317772	12894 784975	27555	58096	154841	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromomethane	FB	Ave	5028 295244	13048 730618	26631	55499	145177	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBAd 10	Ave	+++++ 119589	3524 306214	9754	23908	58698	+++++ 500	25.0 1250	50.0	100	250
Bromodichloromethane	FB	Ave	10817 688333	28868 1753173	59095	127022	339226	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBAd 10	Ave	5254 368110	13433 936843	28334	61753	176595	1.00 50.0	2.50 125	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	13424 876091	35336 2254283	73604	158885	427787	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone (MIBK)	TBAd 10	Ave	67753 4006191	174702 9727144	362626	765344	1998736	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd 5	Ave	27348 1453067	67780 3664924	137617	281809	724778	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd 5	Ave	11039 735162	28638 1901292	59045	130587	351952	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd 5	Ave	9460 652407	26643 1633956	55310	119550	318892	0.200 10.0	0.500 25.0	1.00	2.00	5.00

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 213100

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2022 21:33 Calibration End Date: 01/10/2022 23:46 Calibration ID: 34663

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,1,2-Trichloroethane	CBZd 5	Ave	7904 431026	19539 1086055	39658	83199	215853	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd 5	Ave	12383 677843	31878 1743017	62513	132380	339146	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd 5	Ave	13193 740895	32746 1854038	67684	139222	364752	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBAd 10	Ave	46385 2939920	123176 7204048	257444	553044	1452318	2.00 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd 5	Ave	7772 521432	20273 1358237	43267	92910	252583	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane (EDB)	CBZd 5	Ave	7056 428304	18087 1077500	38676	80714	214246	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd 5	Ave	16716 808522	39268 2090159	77092	156970	412512	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chlorobenzene	CBZd 5	Ave	31728 1690309	78965 4301128	158151	323861	849195	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd 5	Ave	9566 592116	24925 1537036	51048	108438	288087	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd 5	Ave	52102 2856585	130936 7287470	266037	550839	1434907	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd 5	Ave	38510 2232700	99867 5735418	207156	423350	1116448	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd 5	Ave	19772 1115187	49633 2833551	100720	210495	553865	0.200 10.0	0.500 25.0	1.00	2.00	5.00

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 213100

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2022 21:33 Calibration End Date: 01/10/2022 23:46 Calibration ID: 34663

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Styrene	CBZd 5	Ave	31379 1912282	83585 4853018	171925	362997	944771	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd 5	Ave	4116 324716	11633 844880	25527	56302	153837	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd 5	Ave	50180 2844557	126392 7239613	265342	544171	1434179	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	10492 589208	25577 1455731	52839	110783	291172	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd 4	Ave	13286 724219	33200 1840549	66853	140204	363096	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	TBAd 10	Ave	19544 1445240	53760 3723795	116199	255946	697832	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	2717 154662	6918 386193	13765	30057	78135	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd 4	Ave	62148 3418255	156361 8700301	320678	662076	1724817	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd 4	Ave	12735 717851	32691 1830455	66196	136884	357551	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd 4	Ave	43847 2480306	109282 6346119	225203	472300	1244796	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd 4	Ave	13082 743167	32773 1900605	70737	143195	371023	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd 4	Ave	10504 543517	25596 1397937	50003	103376	280607	0.200 10.0	0.500 25.0	1.00	2.00	5.00

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 213100

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2022 21:33 Calibration End Date: 01/10/2022 23:46 Calibration ID: 34663

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Pentachloroethane	DCBd 4	Ave	6873 463340	17225 1207045	37478	78737	226409	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd 4	Ave	44230 2565622	114351 6577259	233982	491009	1284550	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd 4	Ave	55462 3144500	139394 8019008	292229	604355	1583464	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichlorobenzene	DCBd 4	Ave	26815 1479826	65793 3798667	138434	283554	738300	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd 4	Ave	49011 2835758	124395 7291101	258813	539377	1414427	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd 4	Ave	28557 1509377	68359 3867783	137449	288642	754758	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd 4	Ave	21664 1149160	53621 2953261	106206	220038	569708	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd 4	Lin2	+++++ 207726	5691 569432	13039	32184	94983	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd 4	Ave	25156 1426823	64112 3687953	132740	272389	720268	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd 4	Ave	25576 1390274	64215 3551395	129003	268329	699864	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1149 95211	3462 234679	7519	16467	45295	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd 4	Ave	21371 1207589	53978 3033017	111524	230343	606627	0.200 10.0	0.500 25.0	1.00	2.00	5.00

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 213100

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2022 21:33 Calibration End Date: 01/10/2022 23:46 Calibration ID: 34663

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2,4-Trichlorobenzene	DCBd 4	Ave	18916 1119196	47249 2735606	98420	211701	553722	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd 4	Ave	10324 547151	25421 1412064	51487	105994	279253	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd 4	Ave	32422 2019665	82065 4755520	174490	376055	990097	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd 4	Ave	16338 967345	41431 2317241	88651	186286	480823	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	551538 564212	555573 569372	549991	553270	567887	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	117353 118390	117681 120008	116421	117126	119798	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd 5	Ave	2241260 2284972	2249300 2317779	2250050	2247070	2283535	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	843189 865920	842902 881136	846977	848605	861334	10.0 10.0	10.0 10.0	10.0	10.0	10.0

Curve Type Legend
Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 213100

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2022 21:33 Calibration End Date: 01/10/2022 23:46 Calibration ID: 34663

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-213100/17	GJ10X17.D
Level 2	IC 410-213100/16	GJ10X16.D
Level 3	IC 410-213100/15	GJ10X15.D
Level 4	IC 410-213100/14	GJ10X14.D
Level 5	IC 410-213100/13	GJ10X13.D
Level 6	ICIS 410-213100/12	GJ10X12.D
Level 7	IC 410-213100/11	GJ10X11.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	0.5 2.3	-12.1	-0.5	-0.1	5.3	4.7	50 30	30	30	30	30	30
Chloromethane	9.2 -4.2	-4.0	-0.3	-2.4	0.8	1.0	50 30	30	30	30	30	30
Vinyl chloride	0.1 0.1	-3.8	-2.8	-1.6	5.4	2.5	50 30	30	30	30	30	30
1,3-Butadiene	25.8 -12.2	-0.2	0.0	-2.8	-3.3	-7.4	50 30	30	30	30	30	30
Bromomethane	7.9 -1.1	-3.4	-3.8	-1.3	0.2	1.4	50 30	30	30	30	30	30
Chloroethane	10.4 -0.8	-5.5	-6.1	-2.6	3.3	1.3	50 30	30	30	30	30	30
Dichlorofluoromethane	7.2 -1.7	-3.5	-4.7	-1.7	3.8	0.7	50 30	30	30	30	30	30
Trichlorofluoromethane	1.8 0.0	-8.4	-3.2	0.9	5.8	3.1	50 30	30	30	30	30	30
Ethyl ether	-3.2 2.1	-7.3	-2.7	-0.5	6.0	5.7	50 30	30	30	30	30	30
Freon 123a	10.8 -2.9	-6.6	-2.7	-1.2	3.0	-0.5	50 30	30	30	30	30	30
Acrolein	0.9 4.1	-6.0	-4.9	-3.7	4.6	5.0	50 30	30	30	30	30	30
1,1-Dichloroethene	-2.9 0.9	-3.1	-1.2	1.5	3.1	1.8	50 30	30	30	30	30	30
Freon 113	-11.8 3.9	-1.4	-0.9	1.5	5.2	3.5	50 30	30	30	30	30	30
Acetone	9.9 -2.1	-6.4	6.8	-10.6	-0.3	2.6	50 30	30	30	30	30	30

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 213100

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2022 21:33 Calibration End Date: 01/10/2022 23:46 Calibration ID: 34663

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Methyl iodide	-3.4 0.6	-1.6	-1.8	0.7	2.9	2.5	50 30	30	30	30	30	30
Carbon disulfide	-10.8 9.6	-8.8	-4.5	-0.1	6.4	8.2	50 30	30	30	30	30	30
Methyl acetate	14.8 1.0	11.7	-17.6	-8.9	3.8	-4.8	50 30	30	30	30	30	30
Allyl chloride	-4.0 3.4	-3.4	-0.5	-0.5	2.1	3.0	50 30	30	30	30	30	30
Methylene Chloride	-3.4 1.1	-5.1	-0.3	2.2	3.2	2.3	50 30	30	30	30	30	30
t-Butyl alcohol	-10.7 -0.3	3.7	11.9	-5.5	3.3	-2.3	50 30	30	30	30	30	30
Acrylonitrile	-21.0 8.6	-12.0	2.1	0.6	9.6	12.1	50 30	30	30	30	30	30
Methyl tert-butyl ether	-3.3 -0.5	-1.1	-2.2	0.5	3.3	3.2	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-3.8 1.6	-3.3	-2.4	1.9	3.3	2.7	50 30	30	30	30	30	30
n-Hexane	-7.7 5.2	-4.0	1.1	-1.4	5.6	1.2	50 30	30	30	30	30	30
1,1-Dichloroethane	-3.4 3.0	-3.4	-2.1	0.0	2.2	3.5	50 30	30	30	30	30	30
di-Isopropyl ether	-6.2 3.5	-4.8	-2.0	1.9	4.4	3.2	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-4.9 4.7	-6.0	-3.3	1.3	4.2	4.0	50 30	30	30	30	30	30
Ethyl t-butyl ether	-5.4 2.1	-3.7	-2.2	1.2	4.3	3.8	50 30	30	30	30	30	30
2-Butanone (MEK)	-4.6 6.2	-6.6	-2.2	-3.2	4.5	5.8	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-1.9 1.6	-3.7	-1.6	0.3	3.4	1.9	50 30	30	30	30	30	30
2,2-Dichloropropane	-12.2 7.8	-5.8	-2.1	-0.1	5.7	6.7	50 30	30	30	30	30	30
Propionitrile	-15.0 4.0	-5.7	0.9	0.5	4.9	10.3	50 30	30	30	30	30	30
Methacrylonitrile	-8.4 8.8	-6.2	-4.0	-2.6	5.3	7.0	50 30	30	30	30	30	30

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 213100

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2022 21:33 Calibration End Date: 01/10/2022 23:46 Calibration ID: 34663

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	-10.1 4.1	-6.3	0.0	1.8	5.4	5.0	50 30	30	30	30	30	30
Tetrahydrofuran	-5.5 7.6	-9.7	-2.2	-2.0	6.0	5.9	50 30	30	30	30	30	30
Chloroform	-2.2 2.3	-5.0	-2.7	1.8	3.6	2.2	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-7.8 4.4	-4.4	-2.6	1.5	5.4	3.6	50 30	30	30	30	30	30
Cyclohexane	-12.4 6.1	-3.2	-0.4	0.5	6.4	3.0	50 30	30	30	30	30	30
Carbon tetrachloride	-12.7 8.3	-7.4	-2.3	1.4	6.2	6.4	50 30	30	30	30	30	30
1,1-Dichloropropene	-4.0 4.6	-8.3	-2.3	0.7	5.5	3.9	50 30	30	30	30	30	30
Isobutyl alcohol	-3.3 -0.2	-7.4	-0.6	0.4	6.0	5.1	50 30	30	30	30	30	30
Benzene	-3.8 2.1	-3.9	-2.1	1.9	3.1	2.7	50 30	30	30	30	30	30
1,2-Dichloroethane	2.1 -1.5	-1.5	-2.4	-1.2	2.7	1.9	50 30	30	30	30	30	30
t-Amyl methyl ether	-7.5 2.5	-3.4	-3.1	2.4	4.5	4.5	50 30	30	30	30	30	30
n-Heptane	-1.6 4.6	-3.7	0.3	-0.4	2.2	-1.4	50 30	30	30	30	30	30
n-Butanol	-21.4 17.1	-15.6	-6.0	0.3	11.7	13.9	50 30	30	30	30	30	30
Trichloroethene	-0.2 2.4	-3.6	-3.5	-0.3	3.1	2.1	50 30	30	30	30	30	30
Methylcyclohexane	-8.5 6.0	-6.0	-1.7	0.0	6.2	3.9	50 30	30	30	30	30	30
1,2-Dichloropropane	-6.9 4.2	-6.3	-1.4	1.7	4.6	4.1	50 30	30	30	30	30	30
Methyl methacrylate	-20.7 16.2	-10.4	-4.8	-1.7	8.5	12.7	50 30	30	30	30	30	30
Dibromomethane	-8.7 3.6	-4.5	-2.6	1.6	4.7	6.0	50 30	30	30	30	30	30
1,4-Dioxane	+++++ 19.6	-35.4	-11.1	6.7	8.5	11.9	 30	50	30	30	30	30

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 213100

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2022 21:33 Calibration End Date: 01/10/2022 23:46 Calibration ID: 34663

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	-13.9 9.0	-7.4	-5.3	2.0	7.3	8.3	50 30	30	30	30	30	30
2-Nitropropane	-16.4 24.1	-16.5	-12.4	-6.5	10.7	16.8	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-14.9 11.6	-9.7	-6.0	1.6	7.7	9.8	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	-8.6 9.2	-7.9	-5.0	-1.8	6.2	7.8	50 30	30	30	30	30	30
Toluene	-2.4 1.6	-2.8	-1.3	0.8	1.7	2.3	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-14.8 14.1	-11.1	-8.3	1.1	6.9	12.0	50 30	30	30	30	30	30
Ethyl methacrylate	-18.7 9.2	-7.9	-4.4	3.1	7.9	10.7	50 30	30	30	30	30	30
1,1,2-Trichloroethane	-3.8 2.7	-4.4	-3.0	1.5	3.4	3.5	50 30	30	30	30	30	30
Tetrachloroethene	-5.1 3.9	-1.7	-3.7	1.8	2.3	2.6	50 30	30	30	30	30	30
1,3-Dichloropropane	-5.1 3.7	-5.3	-2.1	0.4	3.2	5.2	50 30	30	30	30	30	30
2-Hexanone	-12.9 12.6	-9.7	-6.1	-1.3	7.4	10.0	50 30	30	30	30	30	30
Dibromochloromethane	-16.0 14.2	-11.8	-5.9	0.7	7.5	11.3	50 30	30	30	30	30	30
1,2-Dibromoethane (EDB)	-10.9 5.7	-8.2	-1.9	2.2	6.4	6.7	50 30	30	30	30	30	30
1-Chlorohexane	4.3 1.4	-1.5	-3.3	-1.8	1.3	-0.4	50 30	30	30	30	30	30
Chlorobenzene	-2.6 2.7	-2.5	-2.4	-0.3	2.6	2.5	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-11.5 10.5	-7.3	-5.1	0.5	4.8	8.1	50 30	30	30	30	30	30
Ethylbenzene	-4.8 3.5	-3.8	-2.2	1.0	3.2	3.1	50 30	30	30	30	30	30
m&p-Xylene	-8.7 5.7	-4.8	-1.3	0.6	4.1	4.5	50 30	30	30	30	30	30
o-Xylene	-5.8 4.9	-4.9	-3.5	0.6	3.8	4.9	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 Env Job No.: 410-88520-1 Analy Batch No.: 213100

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2022 21:33 Calibration End Date: 01/10/2022 23:46 Calibration ID: 34663

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Styrene	-11.7 6.2	-5.4	-2.7	2.5	4.7	6.3	50 30	30	30	30	30	30
Bromoform	-25.4 19.1	-15.2	-6.9	2.4	9.8	16.2	50 30	30	30	30	30	30
Isopropylbenzene	-7.0 4.3	-5.8	-1.1	1.1	4.6	4.0	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-2.8 0.5	-5.6	-2.9	1.4	4.2	5.2	50 30	30	30	30	30	30
Bromobenzene	-2.4 0.7	-2.9	-2.6	1.7	3.0	2.5	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-21.7 24.1	-15.9	-9.6	-2.5	10.1	15.4	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-5.1 0.4	-3.8	-4.7	3.7	5.3	4.1	50 30	30	30	30	30	30
N-Propylbenzene	-3.5 0.6	-3.3	-1.2	1.6	3.4	2.3	50 30	30	30	30	30	30
2-Chlorotoluene	-4.8 1.9	-2.7	-1.9	1.0	3.1	3.4	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-4.6 2.8	-5.3	-2.9	1.5	4.5	4.0	50 30	30	30	30	30	30
4-Chlorotoluene	-5.7 2.0	-5.9	1.1	1.9	3.2	3.2	50 30	30	30	30	30	30
tert-Butylbenzene	1.4 0.5	-1.6	-4.3	-1.5	4.5	1.1	50 30	30	30	30	30	30
Pentachloroethane	-13.5 13.2	-13.6	-6.4	-2.1	10.0	12.4	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-6.9 3.1	-4.2	-2.4	2.0	4.3	4.0	50 30	30	30	30	30	30
sec-Butylbenzene	-5.3 1.9	-5.2	-1.1	1.9	4.3	3.4	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-3.1 2.2	-5.3	-0.8	1.2	2.9	3.0	50 30	30	30	30	30	30
p-Isopropyltoluene	-6.4 3.6	-5.4	-2.0	1.7	4.2	4.3	50 30	30	30	30	30	30
1,4-Dichlorobenzene	0.7 1.5	-4.0	-3.9	0.5	2.7	2.5	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-0.2 1.3	-1.6	-3.0	0.1	1.3	2.0	50 30	30	30	30	30	30

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 213100

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/10/2022 21:33 Calibration End Date: 01/10/2022 23:46 Calibration ID: 34663

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Benzyl chloride	+++++ 8.5	6.6	-9.9	-7.1	-2.1	4.0	30	50	30	30	30	30
n-Butylbenzene	-5.7 3.0	-4.2	-1.3	0.9	4.3	3.1	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-2.4 0.9	-2.4	-2.4	1.1	3.1	2.2	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-26.7 11.5	-12.1	-4.9	3.7	11.5	17.0	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-4.7 0.7	-4.1	-1.4	1.4	4.4	3.8	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-6.4 0.8	-6.9	-3.4	3.4	5.8	6.7	50 30	30	30	30	30	30
Hexachlorobutadiene	-0.9 0.9	-2.9	-2.1	0.4	3.4	1.2	50 30	30	30	30	30	30
Naphthalene	-9.0 -0.6	-8.3	-2.9	4.2	7.3	9.2	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-7.2 -2.0	-6.3	-0.2	4.5	5.4	5.9	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-1.1 -0.2	0.5	-0.6	0.1	1.2	0.1	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	-0.4 -0.5	0.7	-0.5	0.3	1.0	-0.6	50 30	30	30	30	30	30
Toluene-d8 (Surr)	-0.5 0.0	0.4	0.4	0.0	-0.3	0.1	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-0.8 0.7	-0.3	0.2	0.1	-0.3	0.5	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X11.D
Lims ID: IC std7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 10-Jan-2022 21:33:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0048068-011
Misc. Info.: IC STD7
Operator ID: kas02648 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 11-Jan-2022 18:49:53 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1654

First Level Reviewer: campbellme Date: 11-Jan-2022 18:05:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.922	1.928	-0.006	99	1474697	25.0	25.6	
5 Chloromethane	50	2.117	2.123	-0.006	99	1578852	25.0	23.9	
8 Vinyl chloride	62	2.233	2.239	-0.006	98	1708155	25.0	25.0	
7 Butadiene	39	2.239	2.245	-0.006	92	1547422	25.0	22.0	
9 Bromomethane	94	2.556	2.562	-0.006	90	1241528	25.0	24.7	
10 Chloroethane	64	2.629	2.635	-0.006	100	1006157	25.0	24.8	
12 Dichlorofluoromethane	67	2.873	2.873	0.000	97	2319349	25.0	24.6	
13 Trichlorofluoromethane	101	2.934	2.940	-0.006	98	2287324	25.0	25.0	
15 Ethyl ether	59	3.166	3.172	-0.006	91	1020988	25.0	25.5	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.257	3.263	-0.006	92	1579162	25.0	24.3	
18 Acrolein	56	3.343	3.349	-0.006	99	8810768	1250.1	1301.3	
19 1,1-Dichloroethene	96	3.464	3.470	-0.006	97	1244821	25.0	25.2	
20 112TCTFE	101	3.507	3.507	0.000	92	1281755	25.0	26.0	
21 Acetone	43	3.513	3.519	-0.006	100	1832140	250.0	244.8	
23 Iodomethane	142	3.653	3.653	0.000	98	2160431	25.0	25.2	
24 Ethyl bromide	108	3.684	3.684	0.000	98	1066436	25.0	25.4	
22 Isopropyl alcohol	45	3.745	3.745	0.000	98	844309	500.0	510.4	
25 Carbon disulfide	76	3.751	3.757	-0.006	99	3417575	25.0	27.4	
27 Methyl acetate	43	3.910	3.897	0.013	97	556488	25.0	25.3	M
28 3-Chloro-1-propene	41	3.928	3.934	-0.006	92	1817249	25.0	25.8	
29 Methylene Chloride	84	4.117	4.117	0.000	90	1346490	25.0	25.3	
* 30 t-Butyl alcohol-d10 (IS)	65	4.190	4.172	0.018	76	162798	50.0	50.0	
31 2-Methyl-2-propanol	59	4.312	4.312	0.000	98	1469107	500.0	498.4	
32 Acrylonitrile	53	4.458	4.470	-0.012	98	675928	62.5	67.9	
33 Methyl tert-butyl ether	73	4.513	4.513	0.000	95	3360252	25.0	24.9	
34 trans-1,2-Dichloroethene	96	4.519	4.519	0.000	99	1387495	25.0	25.4	
35 Hexane	57	4.940	4.946	-0.006	91	1834850	25.0	26.3	
37 1,1-Dichloroethane	63	5.184	5.190	-0.006	96	2383763	25.0	25.8	
38 Isopropyl ether	45	5.245	5.251	-0.006	94	4145327	25.0	25.9	
39 2-Chloro-1,3-butadiene	53	5.287	5.293	-0.006	90	1947920	25.0	26.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.781	5.781	0.000	98	3995153	25.0	25.5	
41 2-Butanone (MEK)	43	5.994	5.994	0.000	99	3899670	250.0	265.4	
42 cis-1,2-Dichloroethene	96	6.019	6.019	0.000	81	1517586	25.0	25.4	
43 2,2-Dichloropropane	77	6.037	6.037	0.000	87	1869359	25.0	26.9	
45 Propionitrile	54	6.098	6.092	0.006	99	2000312	500.0	520.1	
S 46 1,2-Dichloroethene, Total	100				0			50.8	
48 Methacrylonitrile	67	6.299	6.293	0.006	97	3856593	250.0	271.9	
49 Chlorobromomethane	128	6.348	6.348	0.000	92	699298	25.0	26.0	
50 Tetrahydrofuran	71	6.360	6.360	0.000	81	557575	125.0	134.5	
51 Chloroform	83	6.507	6.506	0.001	93	2406332	25.0	25.6	
$ 52 Dibromofluoromethane (Surr)	113	6.720	6.720	0.000	94	569372	10.0	9.98	
53 1,1,1-Trichloroethane	97	6.726	6.726	0.000	98	2098686	25.0	26.1	
54 Cyclohexane	56	6.824	6.823	0.001	89	2309655	25.0	26.5	
57 1,1-Dichloropropene	75	6.939	6.939	0.000	97	1920203	25.0	26.1	
56 Carbon tetrachloride	117	6.939	6.939	0.000	95	1880217	25.0	27.1	
58 Isobutyl alcohol	41	7.135	7.134	0.000	94	1417711	1250.0	1247.8	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.171	0.006	97	120008	10.0	9.95	
60 Benzene	78	7.202	7.201	0.001	96	5642411	25.0	25.5	
61 1,2-Dichloroethane	62	7.275	7.275	0.000	97	1476186	25.0	24.6	
63 Tert-amyl methyl ether	73	7.397	7.397	0.000	99	3697650	25.0	25.6	
* 64 Fluorobenzene (IS)	96	7.610	7.610	0.000	99	2378237	10.0	10.0	
65 n-Heptane	43	7.616	7.616	0.000	91	1895448	25.0	26.1	
67 n-Butanol	56	8.025	8.024	0.001	87	2476467	2187.5	2562.2	M
68 Trichloroethene	95	8.086	8.085	0.001	97	1517629	25.0	25.6	
69 Methylcyclohexane	83	8.396	8.396	0.000	93	2590170	25.0	26.5	
70 1,2-Dichloropropane	63	8.421	8.421	0.000	97	1453725	25.0	26.1	
71 2-ethoxy-2-methyl butane	87	8.439	8.439	0.000	94	2156561	25.0	26.4	
72 Methyl methacrylate	69	8.512	8.512	0.000	89	784975	25.0	29.1	
74 Dibromomethane	93	8.531	8.530	0.001	94	730618	25.0	25.9	
73 1,4-Dioxane	88	8.561	8.561	0.000	86	306214	1250.0	1494.5	
76 Dichlorobromomethane	83	8.774	8.768	0.006	100	1753173	25.0	27.2	
77 2-Nitropropane	41	9.055	9.055	0.000	98	936843	125.0	155.2	
80 1-Bromo-2-chloroethane	63	9.165	9.164	0.001	98	1521866	25.0	25.8	
81 cis-1,3-Dichloropropene	75	9.323	9.323	0.000	97	2254283	25.0	27.9	
82 4-Methyl-2-pentanone (MIBK)	43	9.506	9.506	0.000	96	9727144	250.0	273.1	
$ 83 Toluene-d8 (Surr)	98	9.640	9.640	0.000	93	2317779	10.0	10.0	
84 Toluene	92	9.713	9.713	0.000	98	3664924	25.0	25.4	
96 trans-1,3-Dichloropropene	75	9.975	9.975	0.000	91	1901292	25.0	28.5	
98 Ethyl methacrylate	69	10.042	10.042	0.000	88	1633956	25.0	27.3	
S 97 1,3-Dichloropropene, Total	100				0			56.4	
99 1,1,2-Trichloroethane	97	10.183	10.183	0.000	90	1086055	25.0	25.7	
100 Tetrachloroethene	166	10.268	10.268	0.000	98	1743017	25.0	26.0	
101 1,3-Dichloropropane	76	10.347	10.347	0.000	89	1854038	25.0	25.9	
102 2-Hexanone	43	10.408	10.408	0.000	97	7204048	250.0	281.4	
104 Chlorodibromomethane	129	10.561	10.561	0.000	90	1358237	25.0	28.5	
105 Ethylene Dibromide	107	10.670	10.670	0.000	99	1077500	25.0	26.4	
* 106 Chlorobenzene-d5 (IS)	117	11.109	11.109	0.000	84	1810931	10.0	10.0	
107 1-Chlorohexane	91	11.122	11.121	0.001	96	2090159	25.0	25.3	
108 Chlorobenzene	112	11.134	11.134	0.000	96	4301128	25.0	25.7	
110 1,1,1,2-Tetrachloroethane	131	11.219	11.219	0.000	96	1537036	25.0	27.6	
111 Ethylbenzene	91	11.219	11.219	0.000	98	7287470	25.0	25.9	
S 109 Xylenes, Total	106				0			79.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
112 m-Xylene & p-Xylene	106	11.335	11.335	0.000	99	5735418	50.0	52.8	
113 o-Xylene	106	11.670	11.670	0.000	96	2833551	25.0	26.2	
114 Styrene	104	11.682	11.682	0.000	94	4853018	25.0	26.6	
115 Bromoform	173	11.841	11.841	0.000	98	844880	25.0	29.8	
116 Isopropylbenzene	105	11.969	11.969	0.000	96	7239613	25.0	26.1	
$ 119 4-Bromofluorobenzene (Surr)	95	12.109	12.115	-0.006	93	881136	10.0	10.1	
120 1,1,2,2-Tetrachloroethane	83	12.219	12.219	0.000	92	1455731	25.0	25.1	
121 Bromobenzene	156	12.231	12.231	0.000	93	1840549	25.0	25.2	
122 trans-1,4-Dichloro-2-butene	53	12.243	12.243	0.000	92	3723795	250.0	310.4	
123 1,2,3-Trichloropropane	110	12.262	12.261	0.001	78	386193	25.0	25.1	
124 N-Propylbenzene	91	12.298	12.298	0.000	99	8700301	25.0	25.2	
125 2-Chlorotoluene	126	12.377	12.377	0.000	97	1830455	25.0	25.5	
126 1,3,5-Trimethylbenzene	105	12.438	12.432	0.006	94	6346119	25.0	25.7	
127 4-Chlorotoluene	126	12.469	12.469	0.000	97	1900605	25.0	25.5	
128 tert-Butylbenzene	134	12.676	12.676	0.000	93	1397937	25.0	25.1	
129 Pentachloroethane	167	12.713	12.713	0.000	94	1207045	25.0	28.3	
130 1,2,4-Trimethylbenzene	105	12.719	12.719	0.000	97	6577259	25.0	25.8	
131 sec-Butylbenzene	105	12.841	12.841	0.000	94	8019008	25.0	25.5	
132 1,3-Dichlorobenzene	146	12.938	12.938	0.000	98	3798667	25.0	25.5	
133 4-Isopropyltoluene	119	12.950	12.950	0.000	97	7291101	25.0	25.9	
* 134 1,4-Dichlorobenzene-d4	152	12.993	12.993	0.000	94	1048397	10.0	10.0	
135 1,4-Dichlorobenzene	146	13.011	13.011	0.000	95	3867783	25.0	25.4	
136 1,2,3-Trimethylbenzene	120	13.024	13.023	0.001	98	2953261	25.0	25.3	
137 Benzyl chloride	126	13.091	13.091	0.000	98	569432	25.0	27.1	
138 p-Diethylbenzene	119	13.152	13.151	0.001	92	4322670	25.0	25.9	
139 n-Butylbenzene	92	13.243	13.243	0.000	97	3687953	25.0	25.7	
140 1,2-Dichlorobenzene	146	13.274	13.273	0.001	99	3551395	25.0	25.2	
142 1,2-Dibromo-3-Chloropropane	155	13.816	13.816	0.000	91	234679	25.0	27.9	
143 1,3,5-Trichlorobenzene	180	13.938	13.938	0.000	98	3033017	25.0	25.2	
144 1,2,4-Trichlorobenzene	180	14.365	14.365	0.000	94	2735606	25.0	25.2	
145 Hexachlorobutadiene	225	14.444	14.444	0.000	96	1412064	25.0	25.2	
146 Naphthalene	128	14.542	14.541	0.001	97	4755520	25.0	24.8	
147 1,2,3-Trichlorobenzene	180	14.688	14.688	0.000	96	2317241	25.0	24.5	
148 2-Methylnaphthalene	142	15.304	15.304	0.000	92	2597162	25.0	24.2	
160 Pentane	43	2.958	2.964	-0.006	97	1973792	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00032	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00059	Amount Added: 25.00	Units: uL	
MSV_LL_#2_826_00036	Amount Added: 25.00	Units: uL	
MSV_29_826ISS_00028	Amount Added: 1.00	Units: uL	Run Reagent

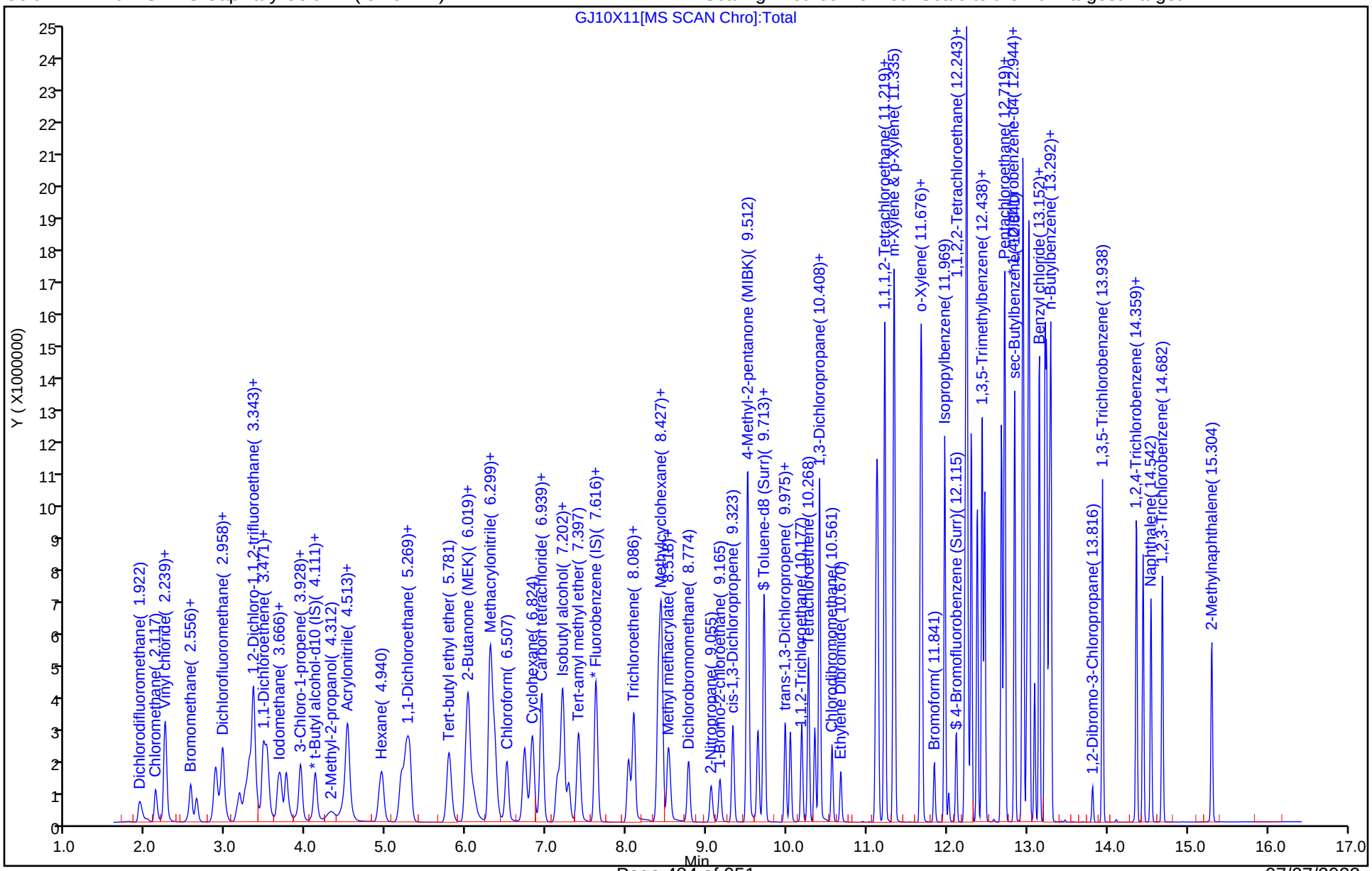
Report Date: 11-Jan-2022 18:49:53 Chrom Revision: 2.3 03-Jan-2022 17:03:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X11.D

Injection Date:	10-Jan-2022 21:33:30	Instrument ID:	16334	Operator ID:	kas02648
Lims ID:	IC std7			Worklist Smp#:	11
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

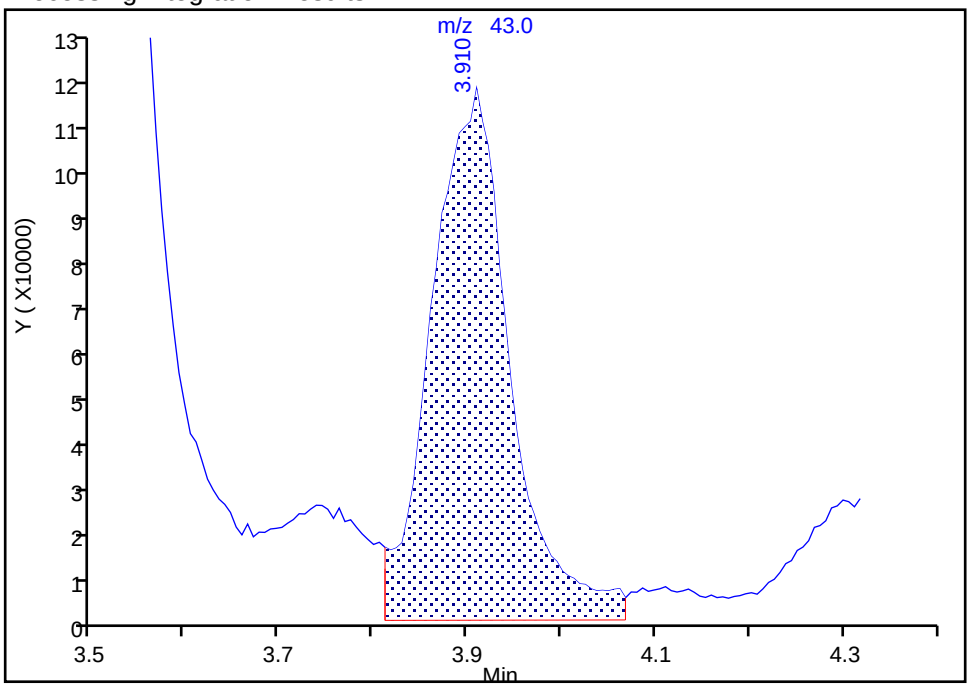
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X11.D				
Injection Date:	10-Jan-2022 21:33:30	Instrument ID:	16334		
Lims ID:	IC std7				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

27 Methyl acetate, CAS: 79-20-9

Signal: 1

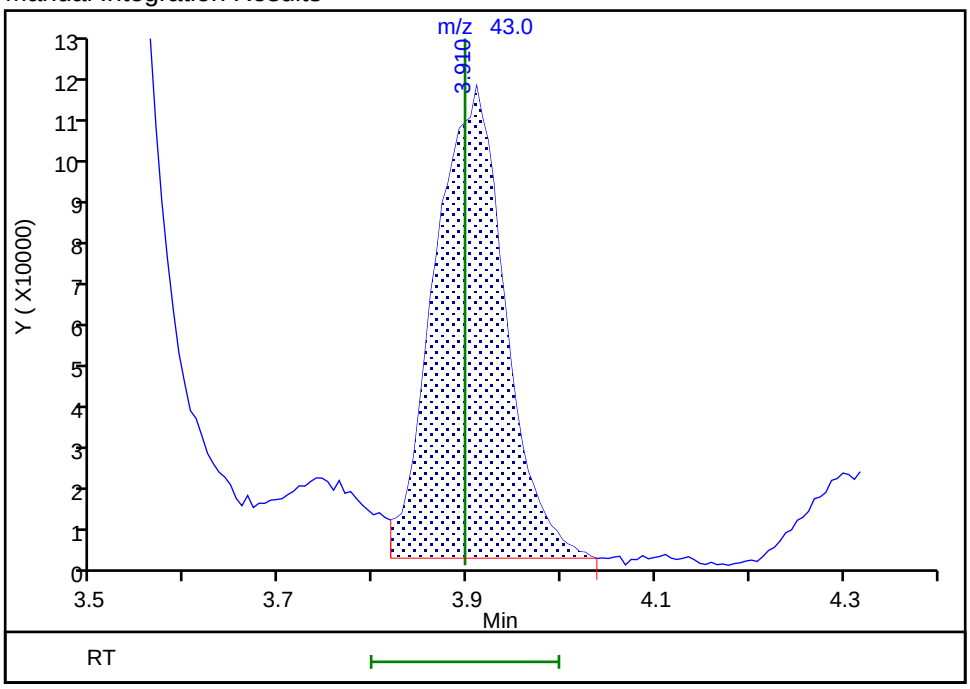
Processing Integration Results

RT: 3.91
Area: 657658
Amount: 30.929454
Amount Units: ug/l



Manual Integration Results

RT: 3.91
Area: 556488
Amount: 25.257949
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:05:16
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

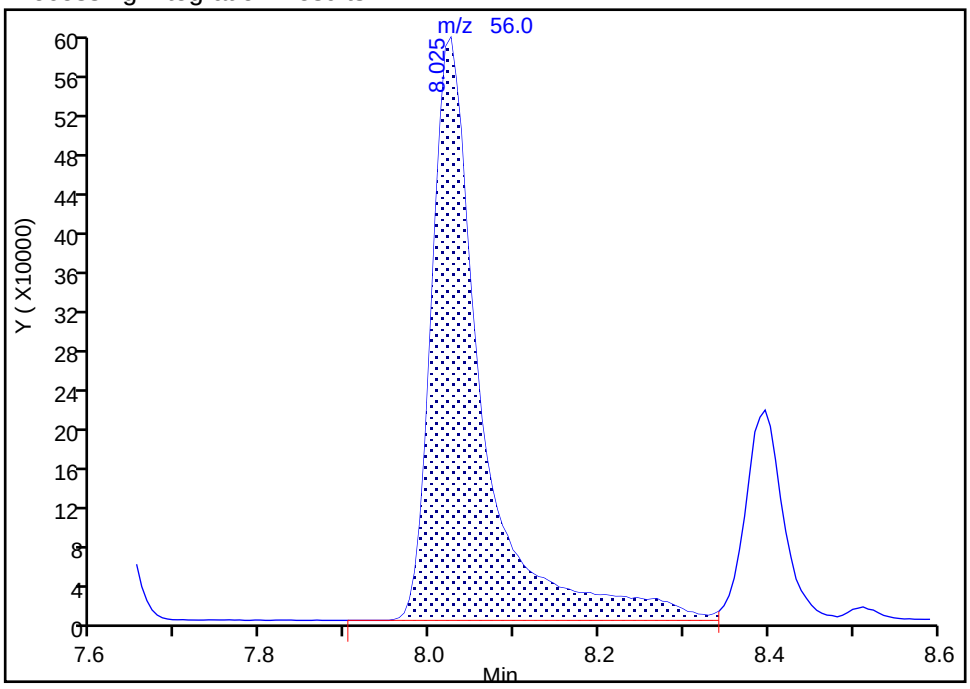
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X11.D				
Injection Date:	10-Jan-2022 21:33:30	Instrument ID:	16334		
Lims ID:	IC std7				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

67 n-Butanol, CAS: 71-36-3

Signal: 1

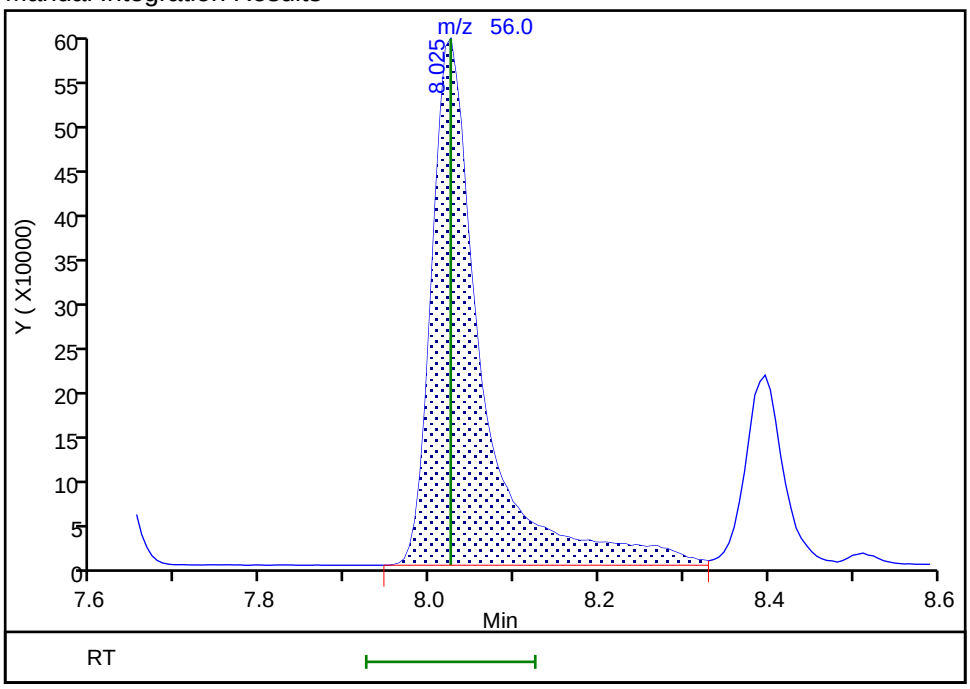
Processing Integration Results

RT: 8.02
Area: 2483036
Amount: 2356.7911
Amount Units: ug/l



Manual Integration Results

RT: 8.02
Area: 2476467
Amount: 2562.1778
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:35:04
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X12.D
Lims ID: ICIS std6
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 10-Jan-2022 21:55:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0048068-012
Misc. Info.: ICIS STD6
Operator ID: kas02648 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 11-Jan-2022 18:49:58 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1654

First Level Reviewer: campbellme Date: 11-Jan-2022 18:09:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.928	1.928	0.000	99	596320	10.0	10.5	M
5 Chloromethane	50	2.123	2.123	0.000	99	657492	10.0	10.1	
8 Vinyl chloride	62	2.239	2.239	0.000	98	690923	10.0	10.3	
7 Butadiene	39	2.245	2.245	0.000	92	644252	10.0	9.26	
9 Bromomethane	94	2.562	2.562	0.000	90	502546	10.0	10.1	
10 Chloroethane	64	2.635	2.635	0.000	99	406218	10.0	10.1	
12 Dichlorofluoromethane	67	2.873	2.873	0.000	97	938890	10.0	10.1	
13 Trichlorofluoromethane	101	2.940	2.940	0.000	97	931106	10.0	10.3	
15 Ethyl ether	59	3.172	3.172	0.000	90	417386	10.0	10.6	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.263	3.263	0.000	92	639315	10.0	9.95	
18 Acrolein	56	3.349	3.349	0.000	99	3708875	500.0	524.9	
19 1,1-Dichloroethene	96	3.470	3.470	0.000	97	496161	10.0	10.2	
20 112TCTFE	101	3.507	3.507	0.000	90	504368	10.0	10.4	
21 Acetone	43	3.519	3.519	0.000	100	801385	100.0	102.6	M
23 Iodomethane	142	3.653	3.653	0.000	98	869505	10.0	10.3	
24 Ethyl bromide	108	3.684	3.684	0.000	98	435164	10.0	10.5	
22 Isopropyl alcohol	45	3.745	3.745	0.000	33	332510	200.0	203.6	
25 Carbon disulfide	76	3.757	3.757	0.000	99	1333134	10.0	10.8	
27 Methyl acetate	43	3.897	3.897	0.000	98	218898	10.0	9.52	M
28 3-Chloro-1-propene	41	3.934	3.934	0.000	93	715208	10.0	10.3	
29 Methylene Chloride	84	4.117	4.117	0.000	90	537951	10.0	10.2	
* 30 t-Butyl alcohol-d10 (IS)	65	4.196	4.196	0.000	71	169884	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.312	4.312	0.000	99	600947	200.0	195.4	
32 Acrylonitrile	53	4.470	4.470	0.000	99	291211	25.0	28.0	
33 Methyl tert-butyl ether	73	4.513	4.513	0.000	94	1376663	10.0	10.3	
34 trans-1,2-Dichloroethene	96	4.519	4.519	0.000	99	554249	10.0	10.3	
35 Hexane	57	4.946	4.946	0.000	91	697616	10.0	10.1	
37 1,1-Dichloroethane	63	5.190	5.190	0.000	96	946235	10.0	10.4	
38 Isopropyl ether	45	5.251	5.251	0.000	94	1631972	10.0	10.3	
39 2-Chloro-1,3-butadiene	53	5.293	5.293	0.000	90	764455	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
40 Tert-butyl ethyl ether	59	5.781	5.781	0.000	98	1604726	10.0	10.4	
41 2-Butanone (MEK)	43	5.994	5.994	0.000	99	1622626	100.0	105.8	
42 cis-1,2-Dichloroethene	96	6.019	6.019	0.000	80	601374	10.0	10.2	
43 2,2-Dichloropropane	77	6.037	6.037	0.000	85	731185	10.0	10.7	
45 Propionitrile	54	6.092	6.092	0.000	99	885423	200.0	220.6	
48 Methacrylonitrile	67	6.293	6.293	0.000	92	1583571	100.0	107.0	
49 Chlorobromomethane	128	6.348	6.348	0.000	90	278534	10.0	10.5	
50 Tetrahydrofuran	71	6.360	6.360	0.000	80	229060	50.0	52.9	
51 Chloroform	83	6.506	6.506	0.000	92	949333	10.0	10.2	
$ 52 Dibromofluoromethane (Surr)	113	6.720	6.720	0.000	94	564212	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.726	6.726	0.000	98	823099	10.0	10.4	
54 Cyclohexane	56	6.823	6.823	0.000	89	885522	10.0	10.3	
57 1,1-Dichloropropene	75	6.939	6.939	0.000	98	753755	10.0	10.4	
56 Carbon tetrachloride	117	6.939	6.939	0.000	95	729095	10.0	10.6	
58 Isobutyl alcohol	41	7.134	7.134	0.000	95	589380	500.0	525.3	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.171	7.171	0.000	93	118390	10.0	9.94	
60 Benzene	78	7.201	7.201	0.000	96	2242097	10.0	10.3	
61 1,2-Dichloroethane	62	7.275	7.275	0.000	97	602868	10.0	10.2	
63 Tert-amyl methyl ether	73	7.397	7.397	0.000	99	1489045	10.0	10.5	
* 64 Fluorobenzene (IS)	96	7.610	7.610	0.000	99	2348513	10.0	10.0	
65 n-Heptane	43	7.616	7.616	0.000	91	705461	10.0	9.86	
67 n-Butanol	56	8.024	8.024	0.000	87	1004953	875.0	996.4	M
68 Trichloroethene	95	8.085	8.085	0.000	97	597497	10.0	10.2	
69 Methylcyclohexane	83	8.396	8.396	0.000	92	1002486	10.0	10.4	
70 1,2-Dichloropropane	63	8.421	8.421	0.000	97	573560	10.0	10.4	
71 2-ethoxy-2-methyl butane	87	8.439	8.439	0.000	94	850398	10.0	10.6	
72 Methyl methacrylate	69	8.512	8.512	0.000	89	317772	10.0	11.3	
74 Dibromomethane	93	8.530	8.530	0.000	94	295244	10.0	10.6	
73 1,4-Dioxane	88	8.561	8.561	0.000	85	119589	500.0	559.3	
76 Dichlorobromomethane	83	8.768	8.768	0.000	99	688333	10.0	10.8	
77 2-Nitropropane	41	9.055	9.055	0.000	98	368110	50.0	58.4	
80 1-Bromo-2-chloroethane	63	9.164	9.164	0.000	98	621171	10.0	10.7	
81 cis-1,3-Dichloropropene	75	9.323	9.323	0.000	97	876091	10.0	11.0	
82 4-Methyl-2-pentanone (MIBK)	43	9.506	9.506	0.000	96	4006191	100.0	107.8	
$ 83 Toluene-d8 (Surr)	98	9.640	9.640	0.000	93	2284972	10.0	10.0	
84 Toluene	92	9.713	9.713	0.000	98	1453067	10.0	10.2	
96 trans-1,3-Dichloropropene	75	9.975	9.975	0.000	91	735162	10.0	11.2	
98 Ethyl methacrylate	69	10.042	10.042	0.000	88	652407	10.0	11.1	
99 1,1,2-Trichloroethane	97	10.183	10.183	0.000	90	431026	10.0	10.4	
100 Tetrachloroethene	166	10.268	10.268	0.000	97	677843	10.0	10.3	
101 1,3-Dichloropropane	76	10.347	10.347	0.000	88	740895	10.0	10.5	
102 2-Hexanone	43	10.408	10.408	0.000	96	2939920	100.0	110.0	
104 Chlorodibromomethane	129	10.561	10.561	0.000	90	521432	10.0	11.1	
105 Ethylene Dibromide	107	10.670	10.670	0.000	99	428304	10.0	10.7	
* 106 Chlorobenzene-d5 (IS)	117	11.109	11.109	0.000	84	1782740	10.0	10.0	
107 1-Chlorohexane	91	11.121	11.121	0.000	96	808522	10.0	9.96	
108 Chlorobenzene	112	11.134	11.134	0.000	96	1690309	10.0	10.2	
110 1,1,1,2-Tetrachloroethane	131	11.219	11.219	0.000	96	592116	10.0	10.8	
111 Ethylbenzene	91	11.219	11.219	0.000	98	2856585	10.0	10.3	
112 m-Xylene & p-Xylene	106	11.335	11.335	0.000	100	2232700	20.0	20.9	
113 o-Xylene	106	11.670	11.670	0.000	96	1115187	10.0	10.5	
114 Styrene	104	11.682	11.682	0.000	94	1912282	10.0	10.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Bromoform	173	11.841	11.841	0.000	98	324716	10.0	11.6	
116 Isopropylbenzene	105	11.969	11.969	0.000	96	2844557	10.0	10.4	
$ 119 4-Bromofluorobenzene (Surr)	95	12.115	12.115	0.000	94	865920	10.0	10.1	
120 1,1,2,2-Tetrachloroethane	83	12.219	12.219	0.000	92	589208	10.0	10.5	
121 Bromobenzene	156	12.231	12.231	0.000	93	724219	10.0	10.3	
122 trans-1,4-Dichloro-2-butene	53	12.243	12.243	0.000	92	1445240	100.0	115.4	
123 1,2,3-Trichloropropane	110	12.261	12.261	0.000	79	154662	10.0	10.4	
124 N-Propylbenzene	91	12.298	12.298	0.000	99	3418255	10.0	10.2	
125 2-Chlorotoluene	126	12.377	12.377	0.000	97	717851	10.0	10.3	
126 1,3,5-Trimethylbenzene	105	12.432	12.432	0.000	94	2480306	10.0	10.4	
127 4-Chlorotoluene	126	12.469	12.469	0.000	97	743167	10.0	10.3	
128 tert-Butylbenzene	134	12.676	12.676	0.000	93	543517	10.0	10.1	
129 Pentachloroethane	167	12.713	12.713	0.000	92	463340	10.0	11.2	
130 1,2,4-Trimethylbenzene	105	12.719	12.719	0.000	97	2565622	10.0	10.4	
131 sec-Butylbenzene	105	12.841	12.841	0.000	94	3144500	10.0	10.3	
132 1,3-Dichlorobenzene	146	12.938	12.938	0.000	98	1479826	10.0	10.3	
133 4-Isopropyltoluene	119	12.950	12.950	0.000	97	2835758	10.0	10.4	
* 134 1,4-Dichlorobenzene-d4	152	12.993	12.993	0.000	94	1012822	10.0	10.0	
135 1,4-Dichlorobenzene	146	13.011	13.011	0.000	95	1509377	10.0	10.3	
136 1,2,3-Trimethylbenzene	120	13.023	13.023	0.000	99	1149160	10.0	10.2	
137 Benzyl chloride	126	13.091	13.091	0.000	98	207726	10.0	10.4	
138 p-Diethylbenzene	119	13.151	13.151	0.000	92	1681550	10.0	10.4	
139 n-Butylbenzene	92	13.243	13.243	0.000	96	1426823	10.0	10.3	
140 1,2-Dichlorobenzene	146	13.273	13.273	0.000	99	1390274	10.0	10.2	
142 1,2-Dibromo-3-Chloropropane	155	13.816	13.816	0.000	91	95211	10.0	11.7	
143 1,3,5-Trichlorobenzene	180	13.938	13.938	0.000	98	1207589	10.0	10.4	
144 1,2,4-Trichlorobenzene	180	14.365	14.365	0.000	94	1119196	10.0	10.7	
145 Hexachlorobutadiene	225	14.444	14.444	0.000	96	547151	10.0	10.1	
146 Naphthalene	128	14.541	14.541	0.000	97	2019665	10.0	10.9	
147 1,2,3-Trichlorobenzene	180	14.688	14.688	0.000	96	967345	10.0	10.6	
148 2-Methylnaphthalene	142	15.304	15.304	0.000	92	1180960	10.0	11.4	
160 Pentane	43	2.964	2.964	0.000	97	746625	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

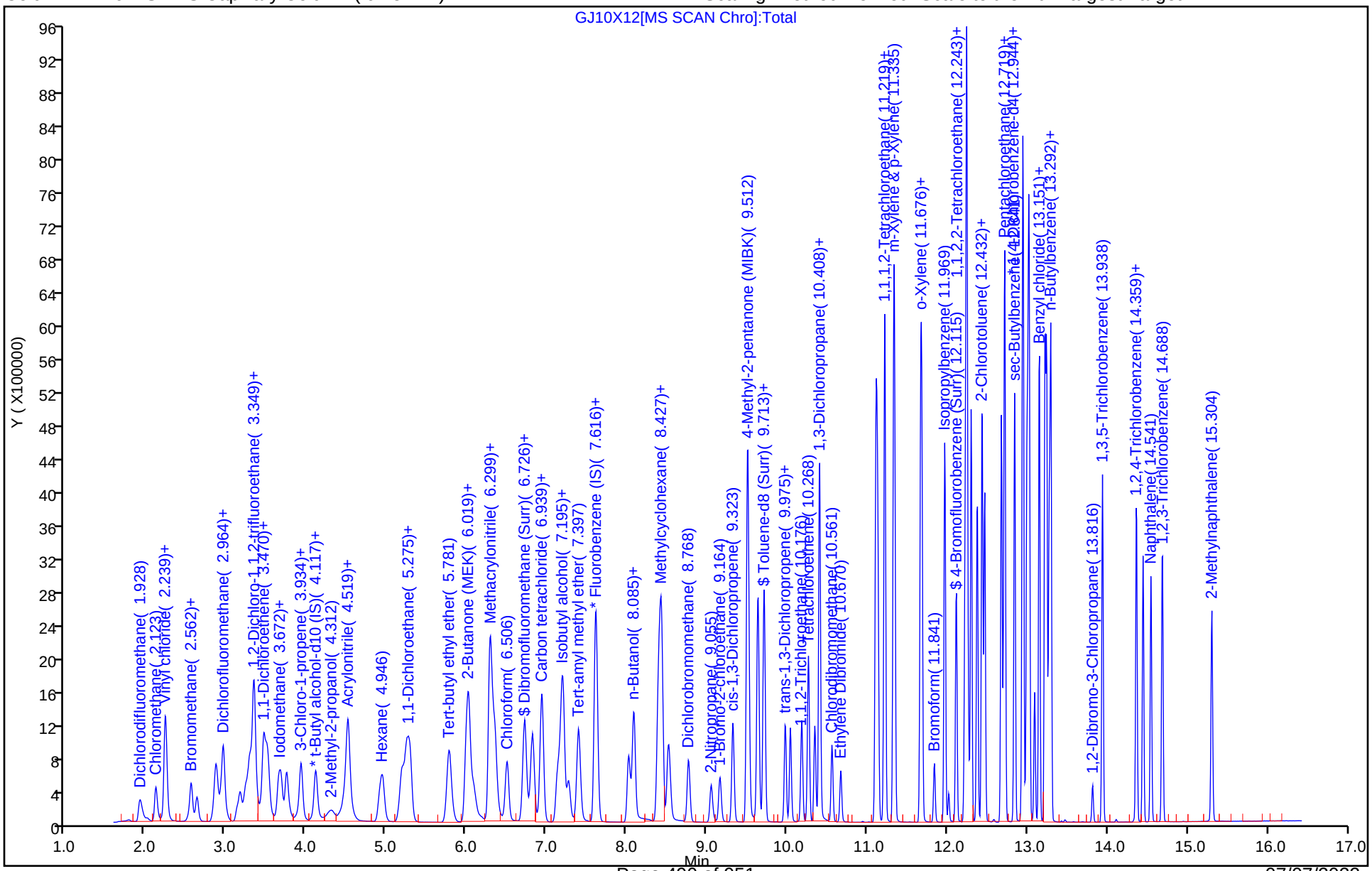
MSV_LL_#1_826_00032	Amount Added: 10.00	Units: uL	
MSV_LL_GAS826_00059	Amount Added: 10.00	Units: uL	
MSV_LL_#2_826_00036	Amount Added: 10.00	Units: uL	
MSV_29_826ISS_00028	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 11-Jan-2022 18:49:58 Chrom Revision: 2.3 03-Jan-2022 17:03:12

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X12.D				
Injection Date:	10-Jan-2022 21:55:30	Instrument ID:	16334	Operator ID:	kas02648
Lims ID:	ICIS std6			Worklist Smp#:	12
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

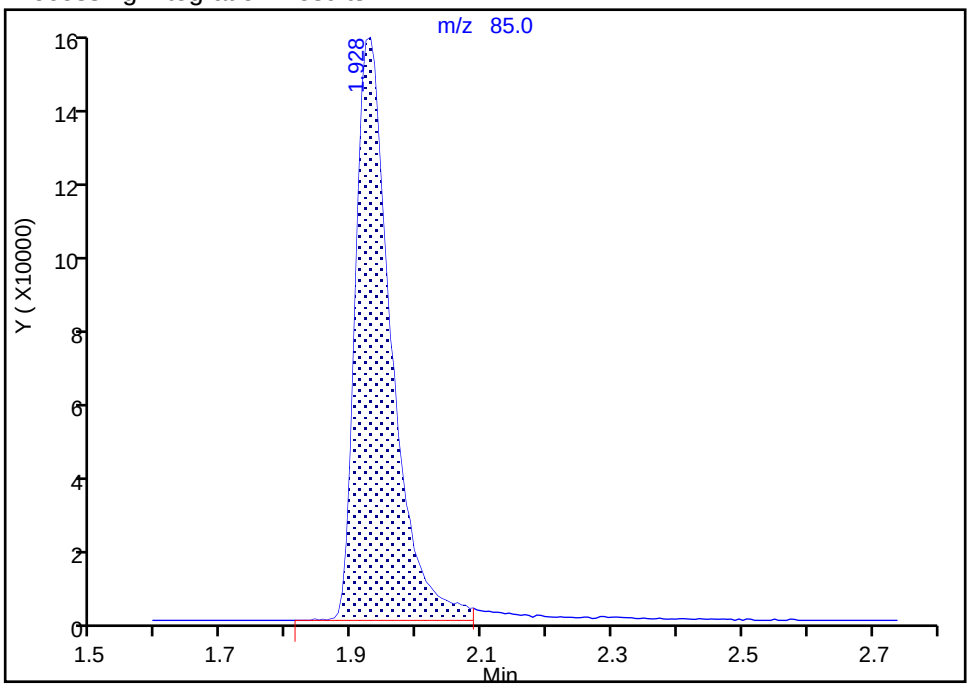
Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X12.D
Injection Date: 10-Jan-2022 21:55:30 Instrument ID: 16334
Lims ID: ICIS std6
Client ID:
Operator ID: kas02648 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

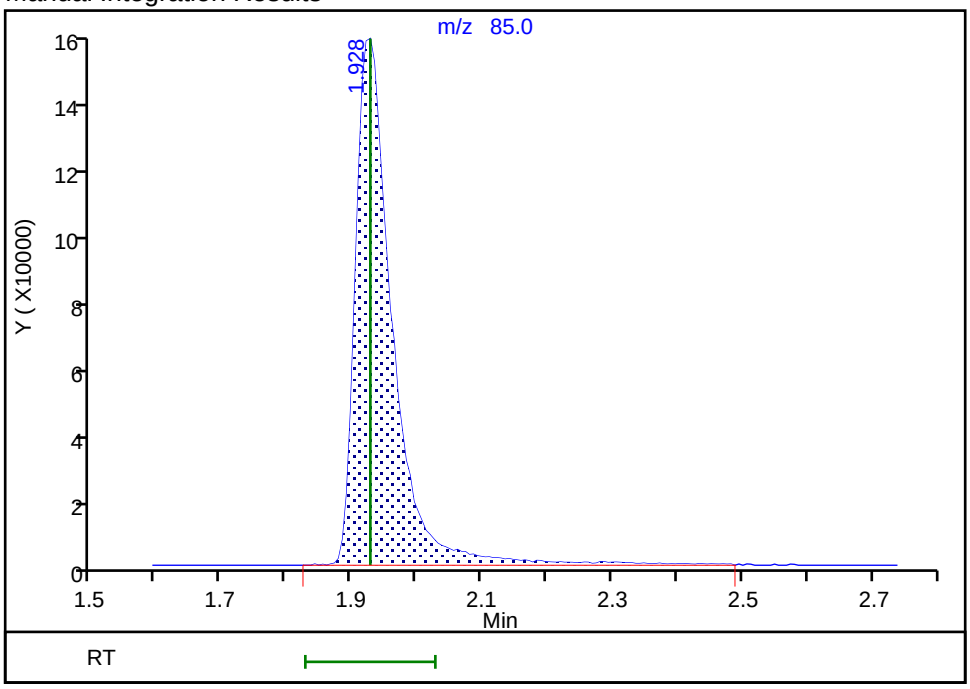
Processing Integration Results

RT: 1.93
Area: 575053
Amount: 10.195694
Amount Units: ug/l



Manual Integration Results

RT: 1.93
Area: 596320
Amount: 10.467595
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:07:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

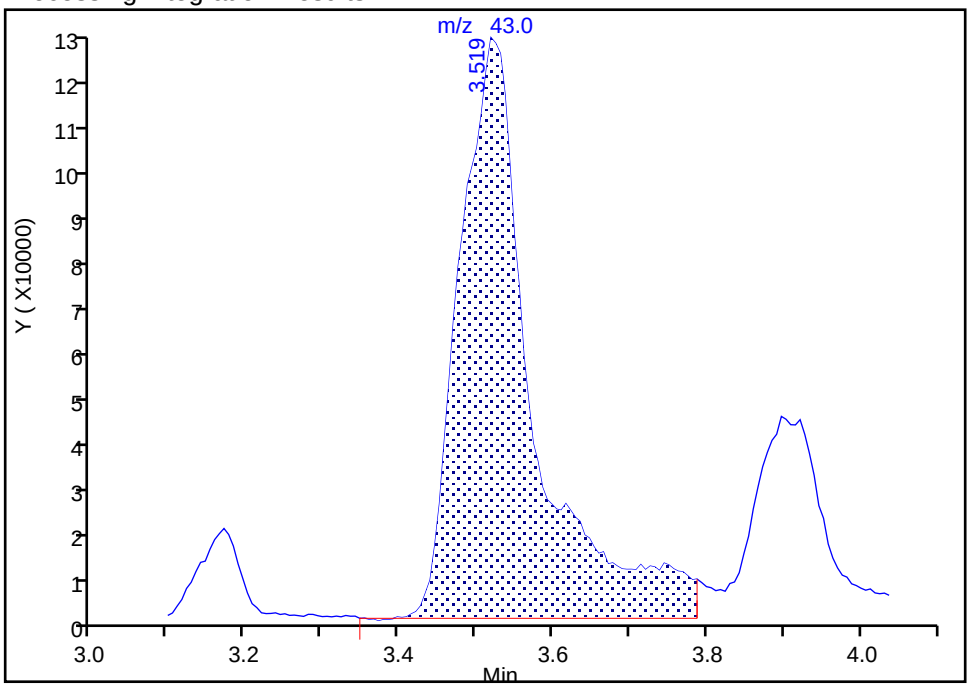
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X12.D				
Injection Date:	10-Jan-2022 21:55:30	Instrument ID:	16334		
Lims ID:	ICIS std6				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Acetone, CAS: 67-64-1

Signal: 1

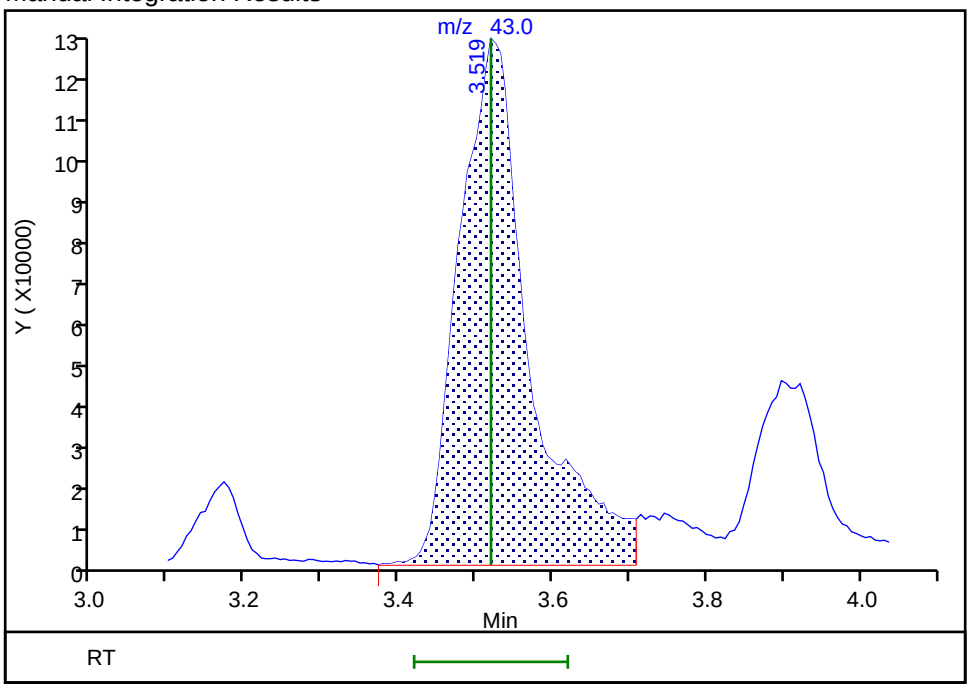
Processing Integration Results

RT: 3.52
Area: 839483
Amount: 94.957080
Amount Units: ug/l



Manual Integration Results

RT: 3.52
Area: 801385
Amount: 102.6211
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:08:07
Audit Action: Assigned New Baseline Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

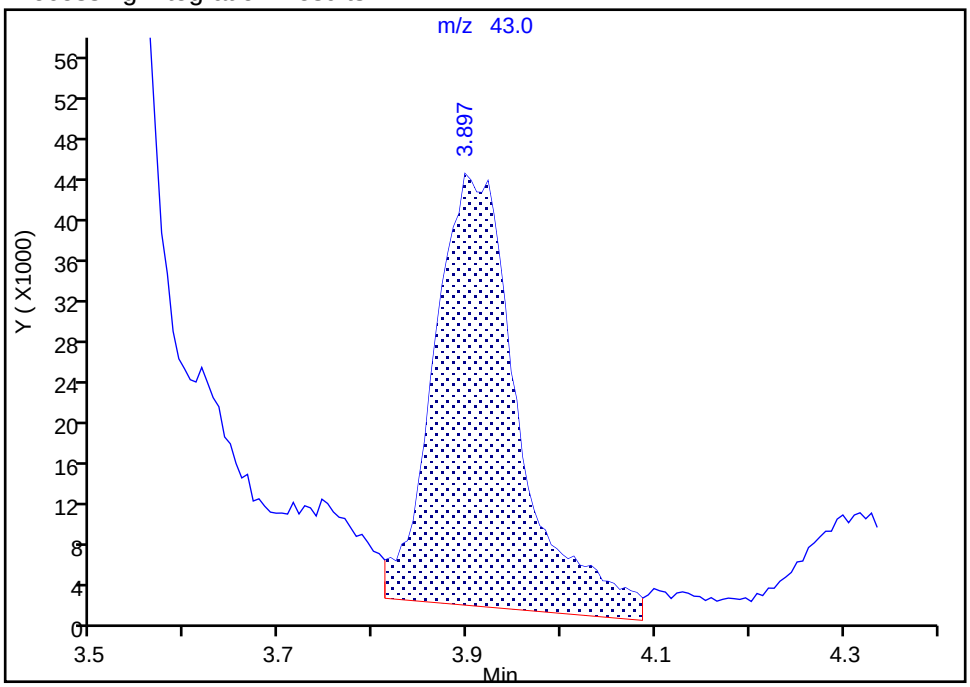
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X12.D				
Injection Date:	10-Jan-2022 21:55:30	Instrument ID:	16334		
Lims ID:	ICIS std6				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

27 Methyl acetate, CAS: 79-20-9

Signal: 1

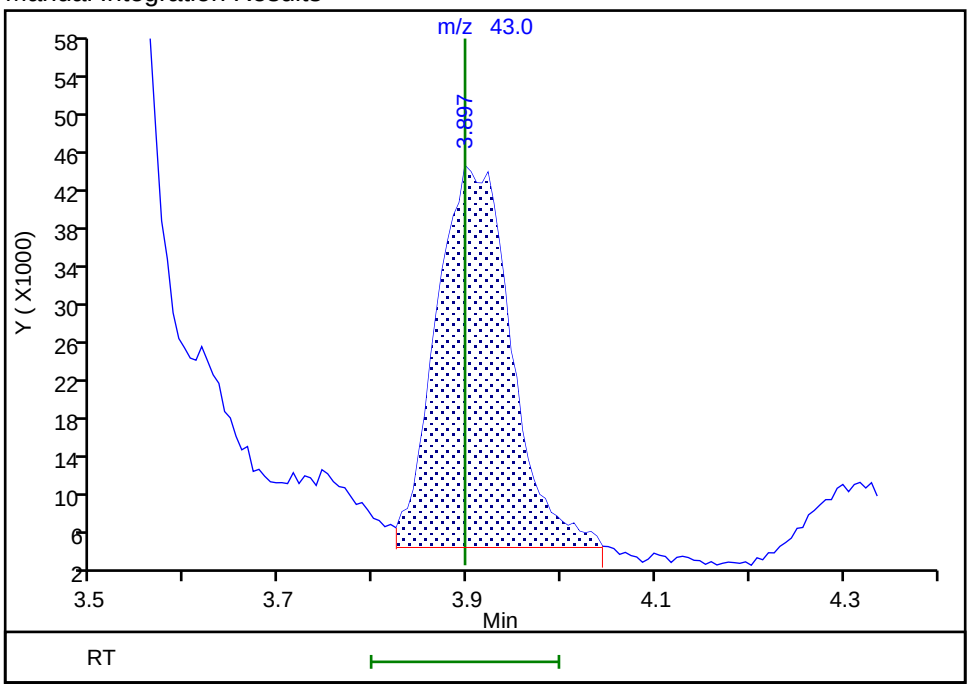
Processing Integration Results

RT: 3.90
Area: 262567
Amount: 11.652839
Amount Units: ug/l



Manual Integration Results

RT: 3.90
Area: 218898
Amount: 9.520958
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:08:27

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

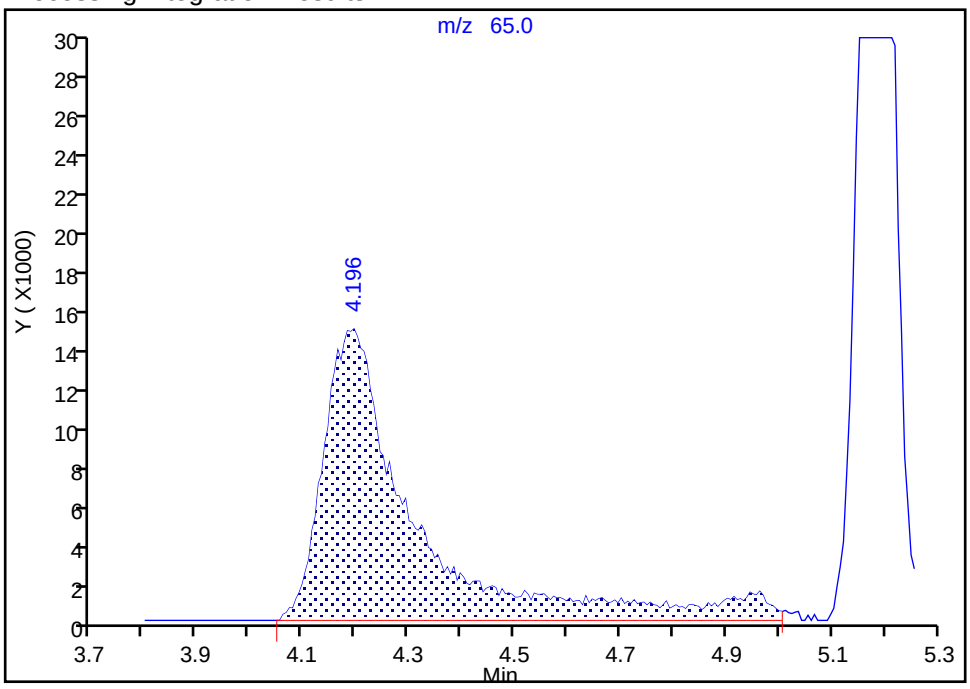
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X12.D				
Injection Date:	10-Jan-2022 21:55:30	Instrument ID:	16334		
Lims ID:	ICIS std6				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

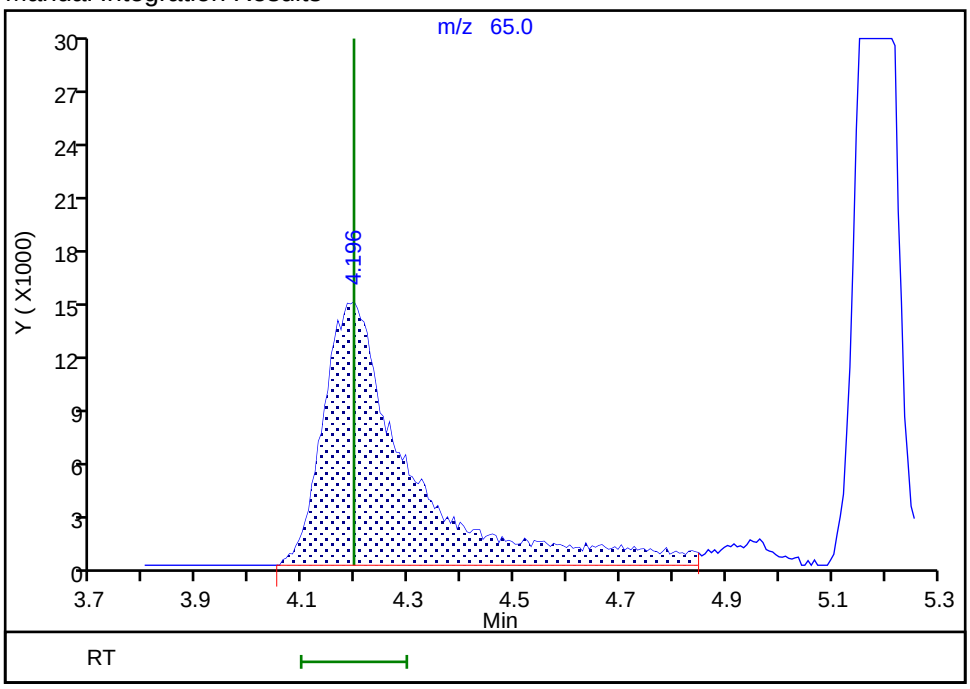
Processing Integration Results

RT: 4.20
Area: 178963
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.20
Area: 169884
Amount: 50.000000
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:08:35

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

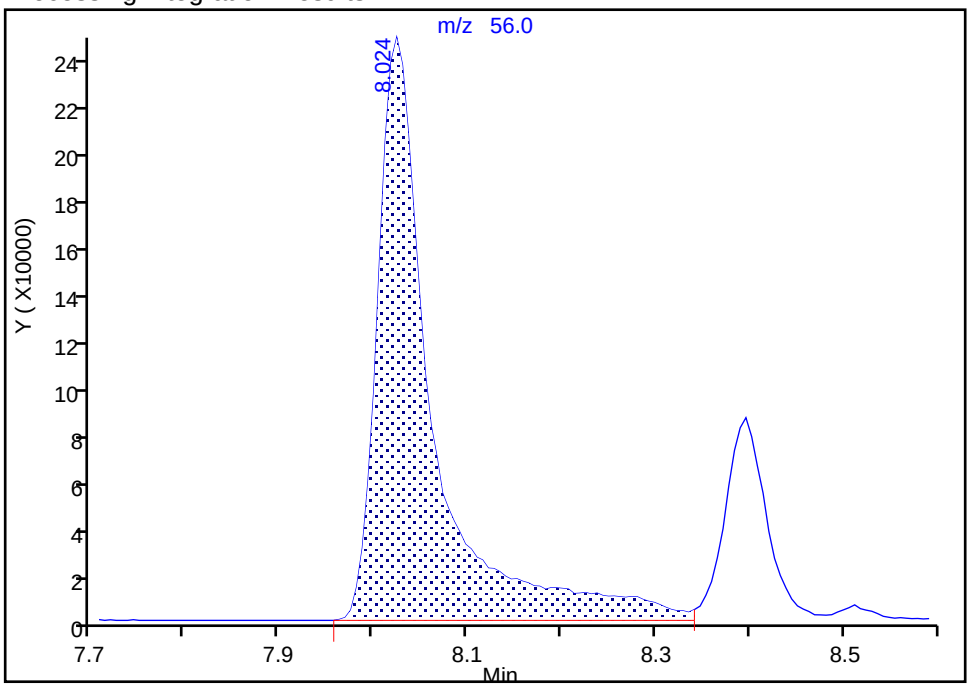
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X12.D				
Injection Date:	10-Jan-2022 21:55:30	Instrument ID:	16334		
Lims ID:	ICIS std6				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

67 n-Butanol, CAS: 71-36-3

Signal: 1

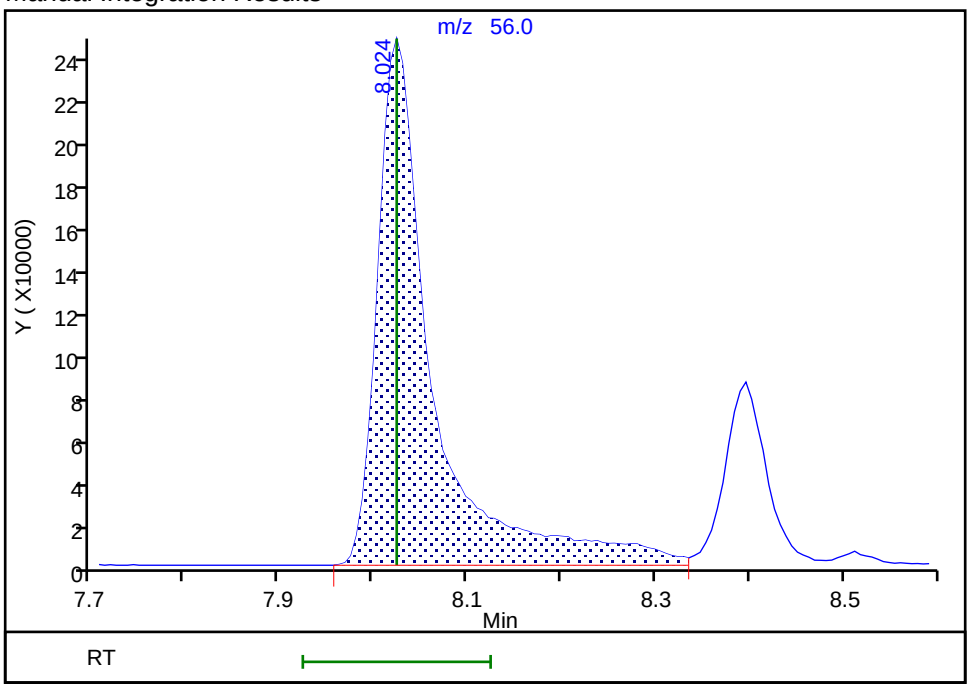
Processing Integration Results

RT: 8.02
Area: 1006618
Amount: 918.8261
Amount Units: ug/l



Manual Integration Results

RT: 8.02
Area: 1004953
Amount: 996.3664
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:34:40

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X13.D
Lims ID: IC std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 10-Jan-2022 22:17:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0048068-013
Misc. Info.: IC STD5
Operator ID: kas02648 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 11-Jan-2022 18:50:03 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1654

First Level Reviewer: campbellme Date: 11-Jan-2022 18:10:59

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
	2 Dichlorodifluoromethane	85	1.928	1.928	0.000	99	298690	5.00	5.27	M
	5 Chloromethane	50	2.123	2.123	0.000	99	326474	5.00	5.04	
	8 Vinyl chloride	62	2.233	2.239	-0.006	97	353361	5.00	5.27	
	7 Butadiene	39	2.245	2.245	0.000	91	334856	5.00	4.83	M
	9 Bromomethane	94	2.562	2.562	0.000	90	247309	5.00	5.01	
	10 Chloroethane	64	2.635	2.635	0.000	99	206063	5.00	5.16	
	12 Dichlorofluoromethane	67	2.873	2.873	0.000	97	481604	5.00	5.19	
	13 Trichlorofluoromethane	101	2.940	2.940	0.000	97	475696	5.00	5.29	
	15 Ethyl ether	59	3.172	3.172	0.000	91	208265	5.00	5.30	
	17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.257	3.263	-0.006	92	329289	5.00	5.15	
	18 Acrolein	56	3.349	3.349	0.000	100	1871184	250.0	261.6	
	19 1,1-Dichloroethene	96	3.471	3.470	0.001	97	250158	5.00	5.15	
	20 112TCTFE	101	3.513	3.507	0.006	90	255101	5.00	5.26	
	21 Acetone	43	3.519	3.519	0.000	75	394112	50.0	49.8	M
	23 Iodomethane	142	3.653	3.653	0.000	98	434385	5.00	5.15	
	24 Ethyl bromide	108	3.684	3.684	0.000	98	217426	5.00	5.26	
	22 Isopropyl alcohol	45	3.739	3.745	-0.006	98	168065	100.0	103.4	
	25 Carbon disulfide	76	3.757	3.757	0.000	99	652137	5.00	5.32	
	27 Methyl acetate	43	3.928	3.897	0.031	97	120805	5.00	5.19	M
	28 3-Chloro-1-propene	41	3.934	3.934	0.000	92	352802	5.00	5.10	
	29 Methylene Chloride	84	4.117	4.117	0.000	90	270186	5.00	5.16	
*	30 t-Butyl alcohol-d10 (IS)	65	4.178	4.196	-0.018	69	171994	50.0	50.0	M
	31 2-Methyl-2-propanol	59	4.300	4.312	-0.012	99	321508	100.0	103.3	
	32 Acrylonitrile	53	4.464	4.470	-0.006	99	144111	12.5	13.7	
	33 Methyl tert-butyl ether	73	4.513	4.513	0.000	89	685813	5.00	5.17	
	34 trans-1,2-Dichloroethene	96	4.519	4.519	0.000	99	277339	5.00	5.16	
	35 Hexane	57	4.946	4.946	0.000	92	362208	5.00	5.28	
	37 1,1-Dichloroethane	63	5.184	5.190	-0.006	96	465036	5.00	5.11	
	38 Isopropyl ether	45	5.251	5.251	0.000	95	821866	5.00	5.22	
	39 2-Chloro-1,3-butadiene	53	5.293	5.293	0.000	90	381424	5.00	5.21	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.781	5.781	0.000	98	802005	5.00	5.21	
41 2-Butanone (MEK)	43	5.995	5.994	0.000	99	811417	50.0	52.3	
42 cis-1,2-Dichloroethene	96	6.019	6.019	0.000	80	303656	5.00	5.17	
43 2,2-Dichloropropane	77	6.031	6.037	-0.006	87	360266	5.00	5.28	
45 Propionitrile	54	6.092	6.092	0.000	99	426166	100.0	104.9	
S 46 1,2-Dichloroethene, Total	100				0			10.3	
48 Methacrylonitrile	67	6.293	6.293	0.000	91	789139	50.0	52.7	
49 Chlorobromomethane	128	6.348	6.348	0.000	92	139220	5.00	5.27	
50 Tetrahydrofuran	71	6.354	6.360	-0.006	87	116147	25.0	26.5	
51 Chloroform	83	6.507	6.506	0.001	92	479266	5.00	5.18	
$ 52 Dibromofluoromethane (Surr)	113	6.720	6.720	0.000	94	567887	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.726	6.726	0.000	98	416469	5.00	5.27	
54 Cyclohexane	56	6.818	6.823	-0.005	89	455102	5.00	5.32	
57 1,1-Dichloropropene	75	6.939	6.939	0.000	97	380865	5.00	5.27	
56 Carbon tetrachloride	117	6.939	6.939	0.000	96	362256	5.00	5.31	
58 Isobutyl alcohol	41	7.135	7.134	0.001	95	296010	250.0	265.0	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.171	7.171	0.000	92	119798	10.0	10.1	
60 Benzene	78	7.202	7.201	0.001	97	1120162	5.00	5.16	
61 1,2-Dichloroethane	62	7.269	7.275	-0.006	97	302404	5.00	5.13	
63 Tert-amyl methyl ether	73	7.397	7.397	0.000	99	741413	5.00	5.23	
* 64 Fluorobenzene (IS)	96	7.610	7.610	0.000	99	2337780	10.0	10.0	
65 n-Heptane	43	7.622	7.616	0.006	90	364280	5.00	5.11	
67 n-Butanol	56	8.018	8.024	-0.006	88	498956	437.5	488.6	
68 Trichloroethene	95	8.086	8.085	0.001	97	300303	5.00	5.15	
69 Methylcyclohexane	83	8.396	8.396	0.000	91	509979	5.00	5.31	
70 1,2-Dichloropropane	63	8.421	8.421	0.000	89	286725	5.00	5.23	
71 2-ethoxy-2-methyl butane	87	8.433	8.439	-0.006	93	422608	5.00	5.27	
72 Methyl methacrylate	69	8.512	8.512	0.000	89	154841	5.00	5.43	
74 Dibromomethane	93	8.531	8.530	0.001	94	145177	5.00	5.24	
73 1,4-Dioxane	88	8.561	8.561	0.000	91	58698	250.0	271.2	
76 Dichlorobromomethane	83	8.768	8.768	0.000	100	339226	5.00	5.36	
77 2-Nitropropane	41	9.055	9.055	0.000	98	176595	25.0	27.7	
80 1-Bromo-2-chloroethane	63	9.165	9.164	0.001	98	310246	5.00	5.35	
81 cis-1,3-Dichloropropene	75	9.323	9.323	0.000	97	427787	5.00	5.39	
82 4-Methyl-2-pentanone (MIBK)	43	9.512	9.506	0.006	96	1998736	50.0	53.1	
$ 83 Toluene-d8 (Surr)	98	9.634	9.640	-0.006	93	2283535	10.0	9.97	
84 Toluene	92	9.713	9.713	0.000	98	724778	5.00	5.09	
96 trans-1,3-Dichloropropene	75	9.982	9.975	0.007	91	351952	5.00	5.35	
98 Ethyl methacrylate	69	10.042	10.042	0.000	88	318892	5.00	5.39	
S 97 1,3-Dichloropropene, Total	100				0			10.7	
99 1,1,2-Trichloroethane	97	10.183	10.183	0.000	90	215853	5.00	5.17	
100 Tetrachloroethene	166	10.268	10.268	0.000	97	339146	5.00	5.12	
101 1,3-Dichloropropane	76	10.347	10.347	0.000	89	364752	5.00	5.16	
102 2-Hexanone	43	10.408	10.408	0.000	97	1452318	50.0	53.7	
104 Chlorodibromomethane	129	10.561	10.561	0.000	89	252583	5.00	5.37	
105 Ethylene Dibromide	107	10.670	10.670	0.000	98	214246	5.00	5.32	
* 106 Chlorobenzene-d5 (IS)	117	11.109	11.109	0.000	84	1788606	10.0	10.0	
107 1-Chlorohexane	91	11.122	11.121	0.001	96	412512	5.00	5.06	
108 Chlorobenzene	112	11.134	11.134	0.000	95	849195	5.00	5.13	
110 1,1,1,2-Tetrachloroethane	131	11.219	11.219	0.000	95	288087	5.00	5.24	
111 Ethylbenzene	91	11.219	11.219	0.000	98	1434907	5.00	5.16	
S 109 Xylenes, Total	106				0			15.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
112 m-Xylene & p-Xylene	106	11.335	11.335	0.000	100	1116448	10.0	10.4	
113 o-Xylene	106	11.670	11.670	0.000	96	553865	5.00	5.19	
114 Styrene	104	11.682	11.682	0.000	95	944771	5.00	5.23	
115 Bromoform	173	11.841	11.841	0.000	98	153837	5.00	5.49	
116 Isopropylbenzene	105	11.969	11.969	0.000	95	1434179	5.00	5.23	
$ 119 4-Bromofluorobenzene (Surr)	95	12.115	12.115	0.000	94	861334	10.0	9.97	
120 1,1,2,2-Tetrachloroethane	83	12.219	12.219	0.000	93	291172	5.00	5.21	
121 Bromobenzene	156	12.231	12.231	0.000	93	363096	5.00	5.15	
122 trans-1,4-Dichloro-2-butene	53	12.243	12.243	0.000	92	697832	50.0	55.1	
123 1,2,3-Trichloropropane	110	12.262	12.261	0.001	79	78135	5.00	5.27	
124 N-Propylbenzene	91	12.298	12.298	0.000	99	1724817	5.00	5.17	
125 2-Chlorotoluene	126	12.377	12.377	0.000	97	357551	5.00	5.16	
126 1,3,5-Trimethylbenzene	105	12.432	12.432	0.000	94	1244796	5.00	5.23	
127 4-Chlorotoluene	126	12.469	12.469	0.000	97	371023	5.00	5.16	
128 tert-Butylbenzene	134	12.676	12.676	0.000	93	280607	5.00	5.23	
129 Pentachloroethane	167	12.713	12.713	0.000	92	226409	5.00	5.50	
130 1,2,4-Trimethylbenzene	105	12.719	12.719	0.000	97	1284550	5.00	5.22	
131 sec-Butylbenzene	105	12.841	12.841	0.000	94	1583464	5.00	5.22	
132 1,3-Dichlorobenzene	146	12.938	12.938	0.000	98	738300	5.00	5.15	
133 4-Isopropyltoluene	119	12.950	12.950	0.000	97	1414427	5.00	5.21	
* 134 1,4-Dichlorobenzene-d4	152	12.993	12.993	0.000	94	1011300	10.0	10.0	
135 1,4-Dichlorobenzene	146	13.011	13.011	0.000	96	754758	5.00	5.14	
136 1,2,3-Trimethylbenzene	120	13.024	13.023	0.001	98	569708	5.00	5.07	
137 Benzyl chloride	126	13.091	13.091	0.000	98	94983	5.00	4.90	
138 p-Diethylbenzene	119	13.152	13.151	0.001	92	839715	5.00	5.22	
139 n-Butylbenzene	92	13.243	13.243	0.000	97	720268	5.00	5.21	
140 1,2-Dichlorobenzene	146	13.274	13.273	0.001	99	699864	5.00	5.15	
142 1,2-Dibromo-3-Chloropropane	155	13.816	13.816	0.000	90	45295	5.00	5.58	
143 1,3,5-Trichlorobenzene	180	13.938	13.938	0.000	98	606627	5.00	5.22	
144 1,2,4-Trichlorobenzene	180	14.365	14.365	0.000	94	553722	5.00	5.29	
145 Hexachlorobutadiene	225	14.444	14.444	0.000	96	279253	5.00	5.17	
146 Naphthalene	128	14.542	14.541	0.001	97	990097	5.00	5.36	
147 1,2,3-Trichlorobenzene	180	14.688	14.688	0.000	96	480823	5.00	5.27	
148 2-Methylnaphthalene	142	15.304	15.304	0.000	91	570255	5.00	5.51	
160 Pentane	43	2.965	2.964	0.001	96	382944	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

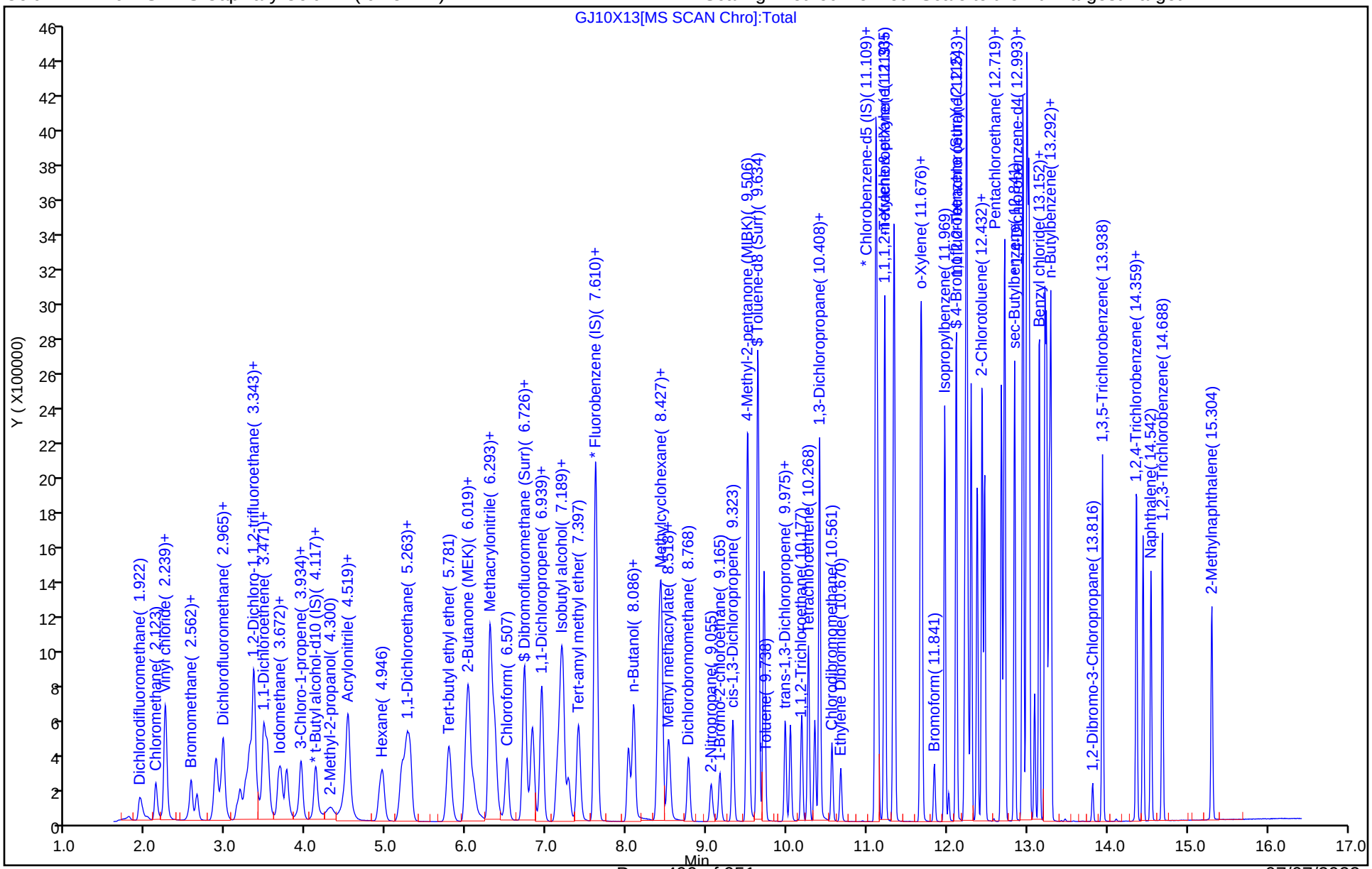
MSV_LL_#1_826_00032	Amount Added:	5.00	Units: uL	
MSV_LL_GAS826_00059	Amount Added:	5.00	Units: uL	
MSV_LL_#2_826_00036	Amount Added:	5.00	Units: uL	
MSV_29_826ISS_00028	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 11-Jan-2022 18:50:04 Chrom Revision: 2.3 03-Jan-2022 17:03:12

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X13.D				
Injection Date:	10-Jan-2022 22:17:30	Instrument ID:	16334	Operator ID:	kas02648
Lims ID:	IC std5			Worklist Smp#:	13
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

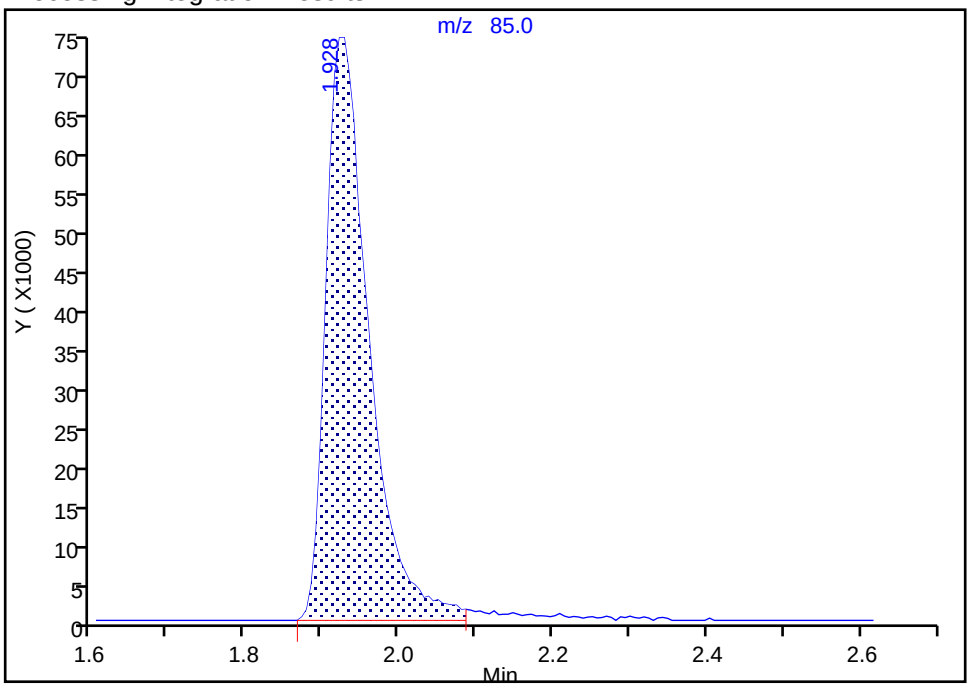
Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X13.D
Injection Date: 10-Jan-2022 22:17:30 Instrument ID: 16334
Lims ID: IC std5
Client ID:
Operator ID: kas02648 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

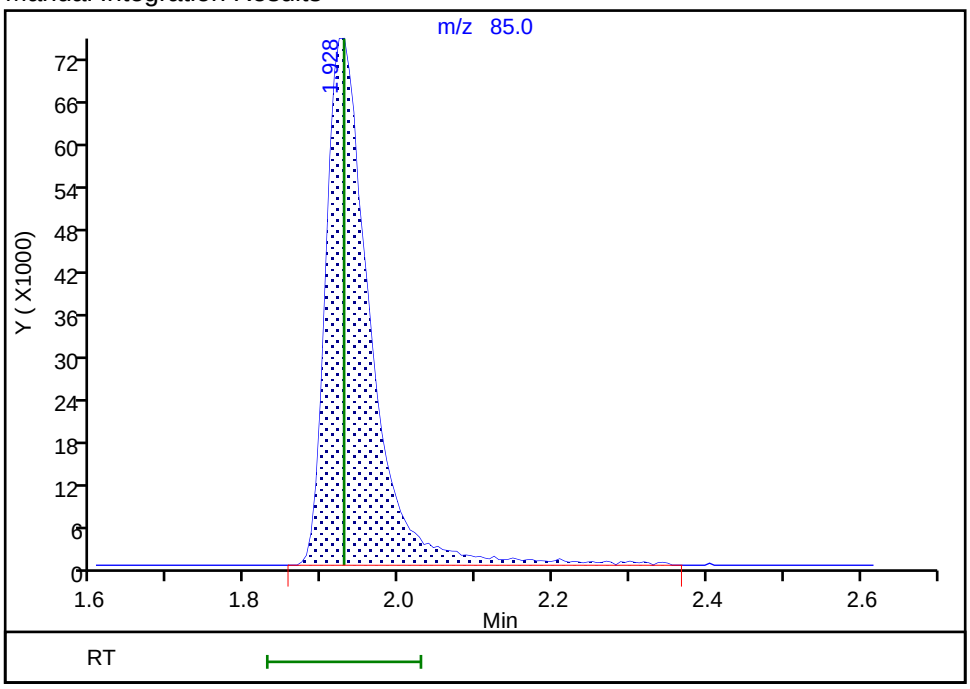
Processing Integration Results

RT: 1.93
Area: 289533
Amount: 5.129361
Amount Units: ug/l



Manual Integration Results

RT: 1.93
Area: 298690
Amount: 5.267172
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:09:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

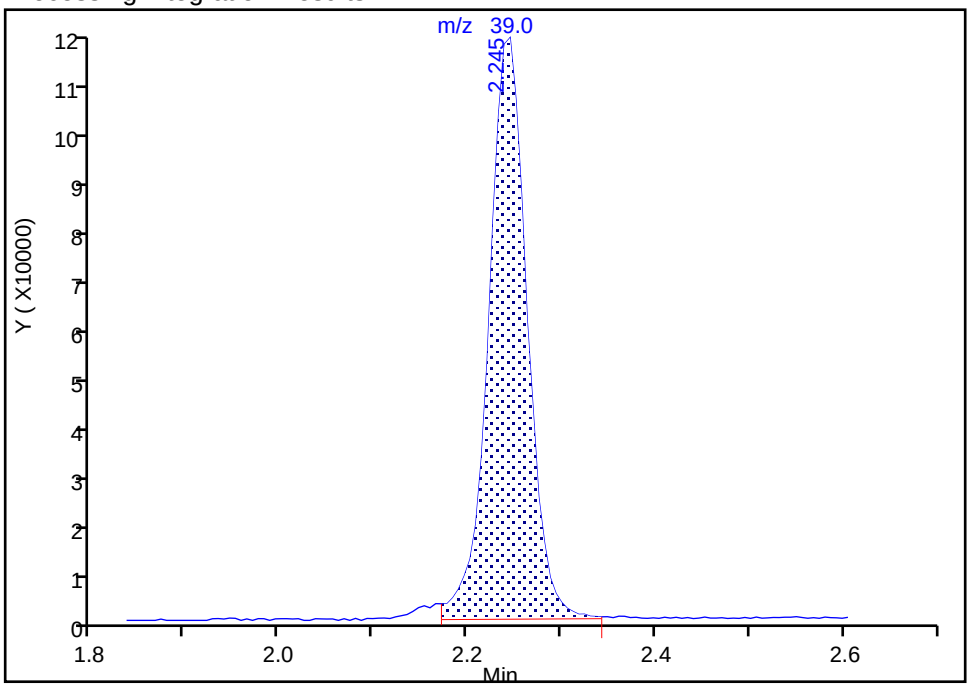
Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X13.D
Injection Date: 10-Jan-2022 22:17:30 Instrument ID: 16334
Lims ID: IC std5
Client ID:
Operator ID: kas02648 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

7 Butadiene, CAS: 106-99-0

Signal: 1

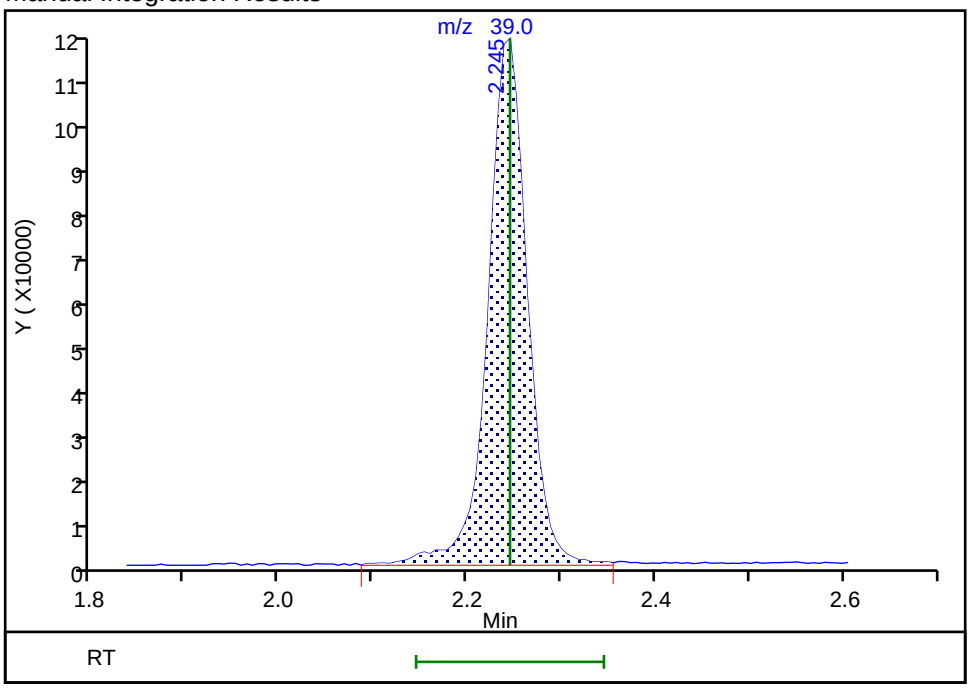
Processing Integration Results

RT: 2.25
Area: 325378
Amount: 4.973370
Amount Units: ug/l



Manual Integration Results

RT: 2.25
Area: 334856
Amount: 4.834683
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:09:36
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

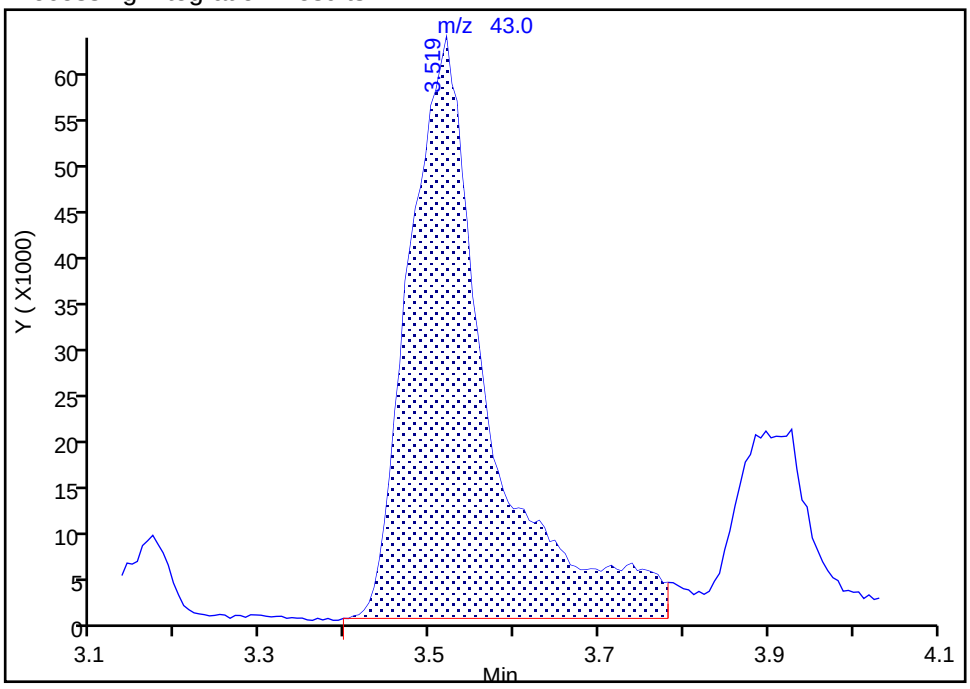
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X13.D				
Injection Date:	10-Jan-2022 22:17:30	Instrument ID:	16334		
Lims ID:	IC std5				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Acetone, CAS: 67-64-1

Signal: 1

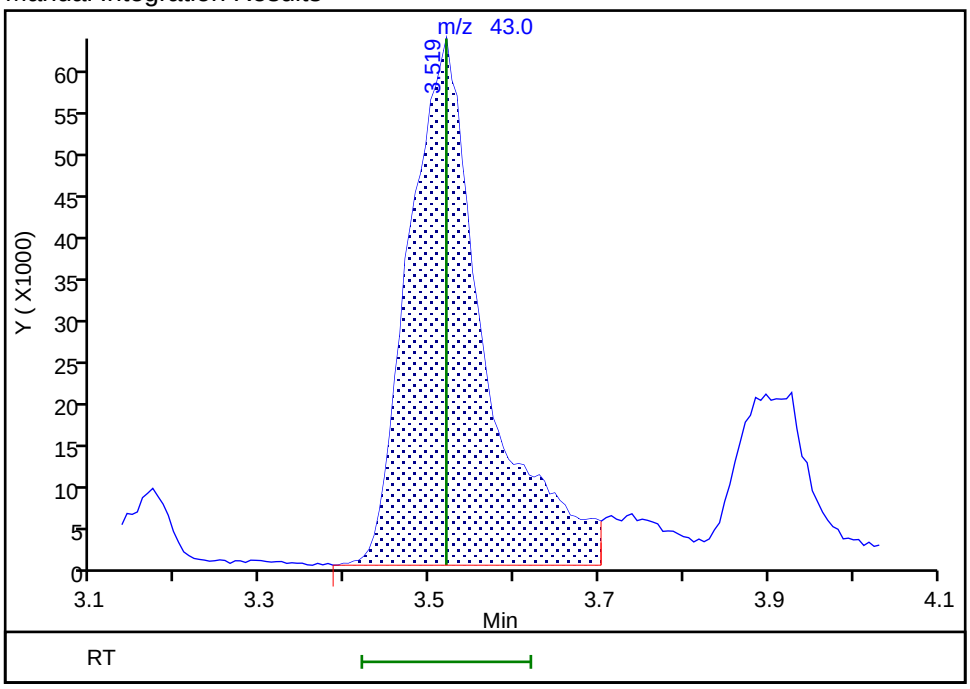
Processing Integration Results

RT: 3.52
Area: 414517
Amount: 47.291751
Amount Units: ug/l



Manual Integration Results

RT: 3.52
Area: 394112
Amount: 49.848774
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:09:57
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

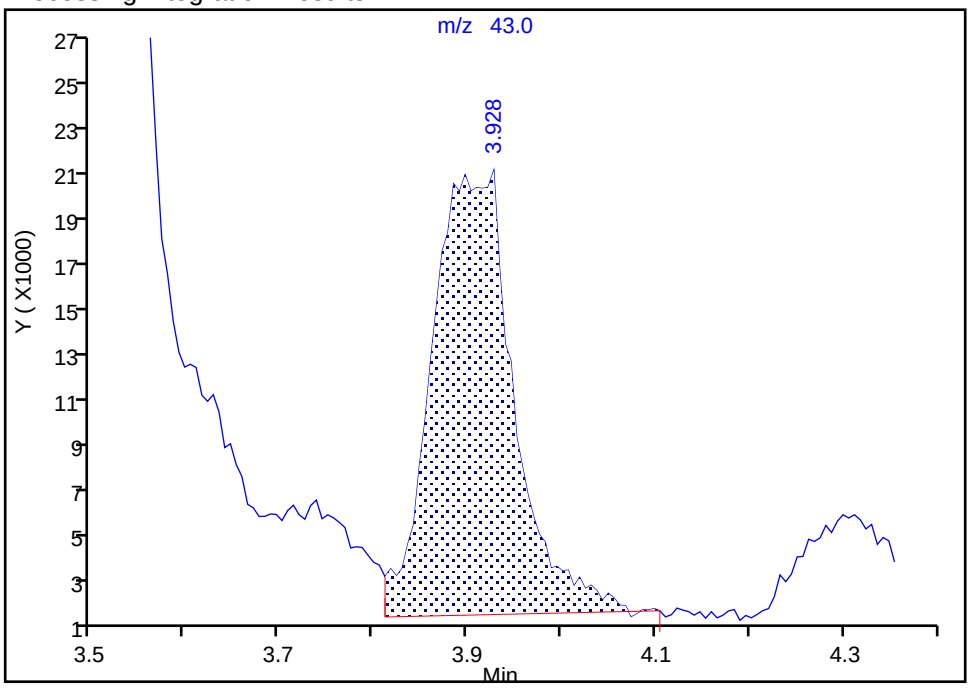
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X13.D				
Injection Date:	10-Jan-2022 22:17:30	Instrument ID:	16334		
Lims ID:	IC std5				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

27 Methyl acetate, CAS: 79-20-9

Signal: 1

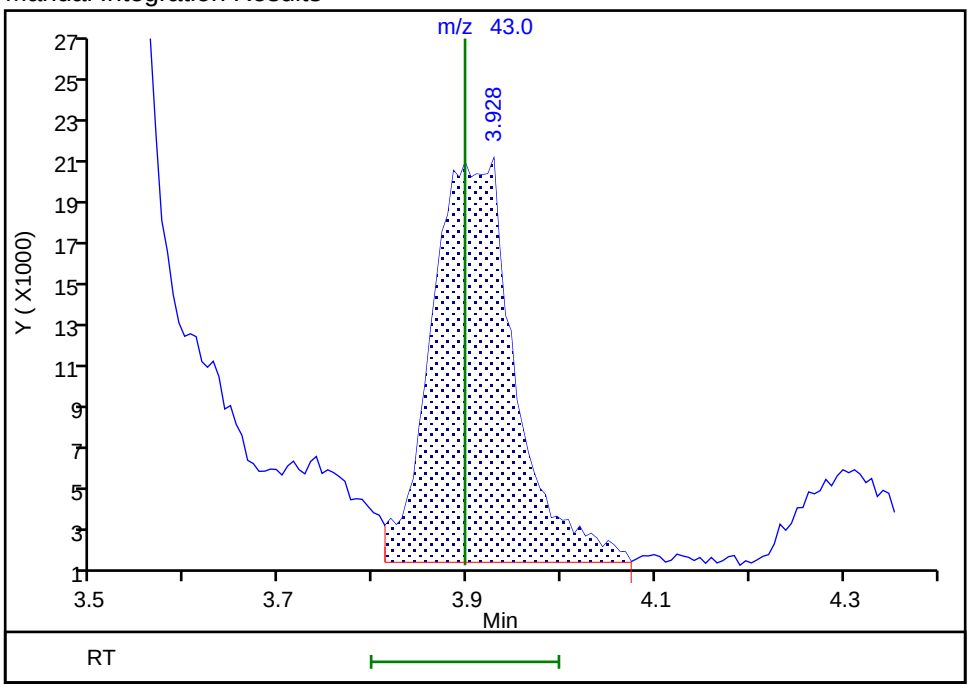
Processing Integration Results

RT: 3.93
Area: 118810
Amount: 5.432471
Amount Units: ug/l



Manual Integration Results

RT: 3.93
Area: 120805
Amount: 5.189947
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:10:16

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

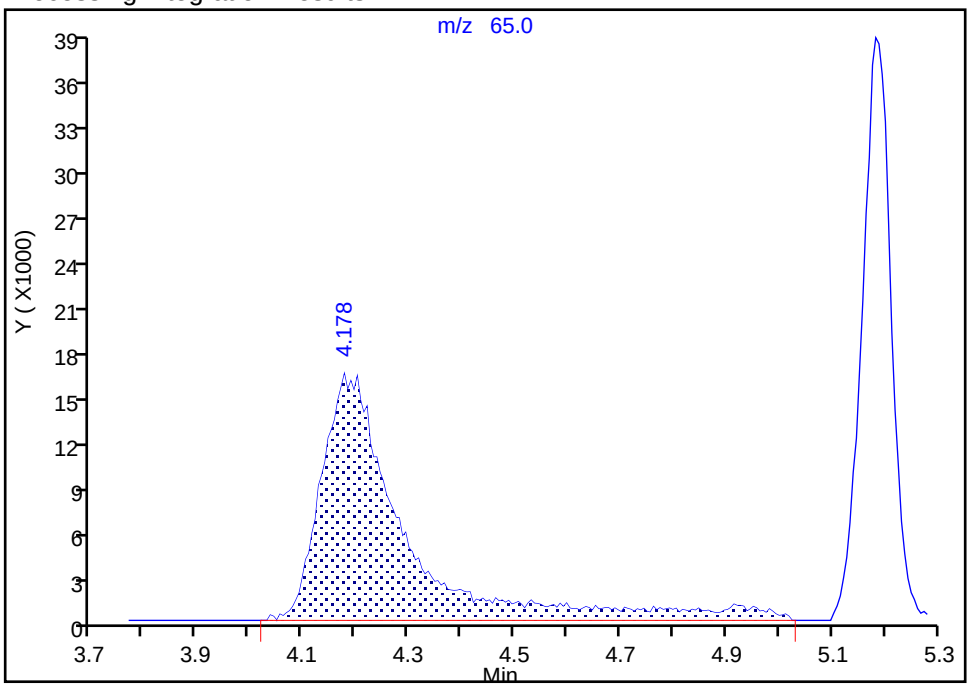
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X13.D				
Injection Date:	10-Jan-2022 22:17:30	Instrument ID:	16334		
Lims ID:	IC std5				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

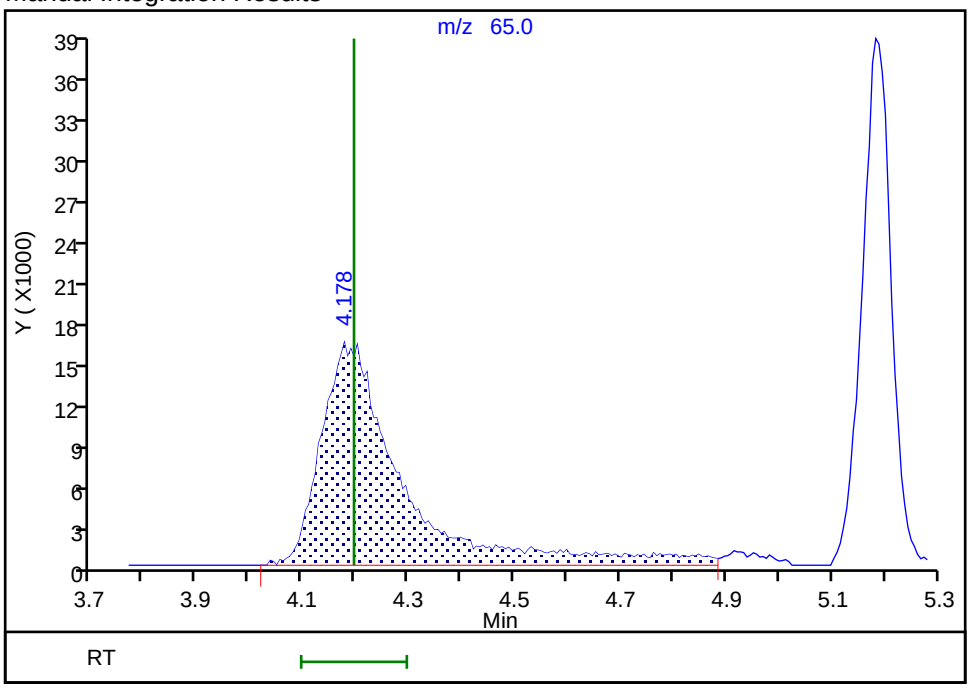
Processing Integration Results

RT: 4.18
Area: 177298
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.18
Area: 171994
Amount: 50.000000
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:10:31

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X14.D
Lims ID: IC std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 10-Jan-2022 22:39:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0048068-014
Misc. Info.: IC STD4
Operator ID: kas02648 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 11-Jan-2022 18:50:09 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1654

First Level Reviewer: campbellme Date: 11-Jan-2022 18:12:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.928	1.928	0.000	99	111528	2.00	2.00	
5 Chloromethane	50	2.123	2.123	0.000	99	124496	2.00	1.95	
8 Vinyl chloride	62	2.239	2.239	0.000	96	129985	2.00	1.97	
7 Butadiene	39	2.245	2.245	0.000	90	132629	2.00	1.94	M
9 Bromomethane	94	2.562	2.562	0.000	90	95894	2.00	1.97	
10 Chloroethane	64	2.636	2.636	0.000	100	76496	2.00	1.95	
12 Dichlorofluoromethane	67	2.873	2.873	0.000	96	179630	2.00	1.97	
13 Trichlorofluoromethane	101	2.940	2.940	0.000	97	178611	2.00	2.02	
15 Ethyl ether	59	3.172	3.172	0.000	90	77005	2.00	1.99	M
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.251	3.251	0.000	88	124399	2.00	1.98	
18 Acrolein	56	3.349	3.349	0.000	100	713124	100.0	96.3	
19 1,1-Dichloroethene	96	3.471	3.471	0.000	97	97045	2.00	2.03	
20 112TCTFE	101	3.513	3.513	0.000	90	96935	2.00	2.03	
21 Acetone	43	3.526	3.526	0.000	97	146411	20.0	17.9	M
23 Iodomethane	142	3.660	3.660	0.000	98	167466	2.00	2.01	
24 Ethyl bromide	108	3.690	3.690	0.000	98	79420	2.00	1.95	
22 Isopropyl alcohol	45	3.757	3.757	0.000	30	68382	40.0	42.7	
25 Carbon disulfide	76	3.757	3.757	0.000	99	241217	2.00	2.00	
27 Methyl acetate	43	3.897	3.897	0.000	97	43935	2.00	1.82	M
28 3-Chloro-1-propene	41	3.940	3.940	0.000	92	135398	2.00	1.99	
29 Methylene Chloride	84	4.117	4.117	0.000	89	105333	2.00	2.04	
* 30 t-Butyl alcohol-d10 (IS)	65	4.196	4.196	0.000	70	178108	50.0	50.0	
31 2-Methyl-2-propanol	59	4.306	4.306	0.000	98	121946	40.0	37.8	
32 Acrylonitrile	53	4.464	4.464	0.000	93	54830	5.00	5.03	
33 Methyl tert-butyl ether	73	4.513	4.513	0.000	93	262781	2.00	2.01	
34 trans-1,2-Dichloroethene	96	4.519	4.519	0.000	98	107726	2.00	2.04	
35 Hexane	57	4.946	4.946	0.000	93	133215	2.00	1.97	
37 1,1-Dichloroethane	63	5.184	5.184	0.000	96	179186	2.00	2.00	
38 Isopropyl ether	45	5.251	5.251	0.000	95	315800	2.00	2.04	
39 2-Chloro-1,3-butadiene	53	5.294	5.294	0.000	90	146063	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
40 Tert-butyl ethyl ether	59	5.781	5.781	0.000	98	306585	2.00	2.02	
41 2-Butanone (MEK)	43	6.001	6.001	0.000	100	311044	20.0	19.4	
42 cis-1,2-Dichloroethene	96	6.025	6.025	0.000	81	116021	2.00	2.01	
43 2,2-Dichloropropane	77	6.037	6.037	0.000	86	134160	2.00	2.00	
45 Propionitrile	54	6.098	6.098	0.000	99	169215	40.0	40.2	
S 46 1,2-Dichloroethene, Total	100				0			4.04	
48 Methacrylonitrile	67	6.293	6.293	0.000	90	302281	20.0	19.5	
49 Chlorobromomethane	128	6.354	6.354	0.000	92	52955	2.00	2.04	
50 Tetrahydrofuran	71	6.354	6.354	0.000	78	44455	10.0	9.80	
51 Chloroform	83	6.507	6.507	0.000	93	185502	2.00	2.04	
$ 52 Dibromofluoromethane (Surr)	113	6.720	6.720	0.000	94	553270	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.732	6.732	0.000	97	157975	2.00	2.03	
54 Cyclohexane	56	6.824	6.824	0.000	89	169274	2.00	2.01	
57 1,1-Dichloropropene	75	6.940	6.940	0.000	96	143138	2.00	2.01	
56 Carbon tetrachloride	117	6.933	6.933	0.000	86	136293	2.00	2.03	
58 Isobutyl alcohol	41	7.141	7.141	0.000	92	110421	100.0	100.4	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.171	7.171	0.000	87	117126	10.0	10.0	
60 Benzene	78	7.202	7.202	0.000	95	435884	2.00	2.04	
61 1,2-Dichloroethane	62	7.269	7.269	0.000	97	114564	2.00	1.98	
63 Tert-amyl methyl ether	73	7.397	7.397	0.000	99	286020	2.00	2.05	
* 64 Fluorobenzene (IS)	96	7.610	7.610	0.000	99	2301914	10.0	10.0	
65 n-Heptane	43	7.622	7.622	0.000	85	139797	2.00	1.99	
67 n-Butanol	56	8.025	8.025	0.000	87	185519	175.0	175.4	M
68 Trichloroethene	95	8.086	8.086	0.000	97	114411	2.00	1.99	
69 Methylcyclohexane	83	8.397	8.397	0.000	91	189202	2.00	2.00	
70 1,2-Dichloropropane	63	8.427	8.427	0.000	88	109890	2.00	2.03	
71 2-ethoxy-2-methyl butane	87	8.433	8.433	0.000	93	160010	2.00	2.03	
72 Methyl methacrylate	69	8.519	8.519	0.000	89	58096	2.00	1.97	
74 Dibromomethane	93	8.531	8.531	0.000	94	55499	2.00	2.03	
73 1,4-Dioxane	88	8.561	8.561	0.000	82	23908	100.0	106.7	
76 Dichlorobromomethane	83	8.775	8.775	0.000	99	127022	2.00	2.04	
77 2-Nitropropane	41	9.055	9.055	0.000	99	61753	10.0	9.35	
80 1-Bromo-2-chloroethane	63	9.165	9.165	0.000	98	111933	2.00	1.96	
81 cis-1,3-Dichloropropene	75	9.323	9.323	0.000	97	158885	2.00	2.03	
82 4-Methyl-2-pentanone (MIBK)	43	9.506	9.506	0.000	96	765344	20.0	19.6	
$ 83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	2247070	10.0	10.0	
84 Toluene	92	9.713	9.713	0.000	98	281809	2.00	2.02	
96 trans-1,3-Dichloropropene	75	9.976	9.976	0.000	92	130587	2.00	2.02	
98 Ethyl methacrylate	69	10.043	10.043	0.000	88	119550	2.00	2.06	
S 97 1,3-Dichloropropene, Total	100				0			4.05	
99 1,1,2-Trichloroethane	97	10.183	10.183	0.000	90	83199	2.00	2.03	
100 Tetrachloroethene	166	10.268	10.268	0.000	97	132380	2.00	2.04	
101 1,3-Dichloropropane	76	10.347	10.347	0.000	89	139222	2.00	2.01	
102 2-Hexanone	43	10.408	10.408	0.000	96	553044	20.0	19.7	
104 Chlorodibromomethane	129	10.561	10.561	0.000	89	92910	2.00	2.01	
105 Ethylene Dibromide	107	10.671	10.671	0.000	99	80714	2.00	2.04	
* 106 Chlorobenzene-d5 (IS)	117	11.109	11.109	0.000	84	1754782	10.0	10.0	
107 1-Chlorohexane	91	11.116	11.116	0.000	96	156970	2.00	1.96	
108 Chlorobenzene	112	11.134	11.134	0.000	96	323861	2.00	1.99	
110 1,1,1,2-Tetrachloroethane	131	11.219	11.219	0.000	93	108438	2.00	2.01	
111 Ethylbenzene	91	11.219	11.219	0.000	98	550839	2.00	2.02	
S 109 Xylenes, Total	106				0			6.04	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
112 m-Xylene & p-Xylene	106	11.335	11.335	0.000	100	423350	4.00	4.02	
113 o-Xylene	106	11.670	11.670	0.000	96	210495	2.00	2.01	
114 Styrene	104	11.683	11.683	0.000	95	362997	2.00	2.05	
115 Bromoform	173	11.841	11.841	0.000	98	56302	2.00	2.05	
116 Isopropylbenzene	105	11.969	11.969	0.000	95	544171	2.00	2.02	
$ 119 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	93	848605	10.0	10.0	
120 1,1,2,2-Tetrachloroethane	83	12.219	12.219	0.000	92	110783	2.00	2.03	
121 Bromobenzene	156	12.231	12.231	0.000	94	140204	2.00	2.03	
122 trans-1,4-Dichloro-2-butene	53	12.243	12.243	0.000	95	255946	20.0	19.5	
123 1,2,3-Trichloropropane	110	12.262	12.262	0.000	80	30057	2.00	2.07	
124 N-Propylbenzene	91	12.298	12.298	0.000	99	662076	2.00	2.03	
125 2-Chlorotoluene	126	12.378	12.378	0.000	97	136884	2.00	2.02	
126 1,3,5-Trimethylbenzene	105	12.438	12.438	0.000	95	472300	2.00	2.03	
127 4-Chlorotoluene	126	12.469	12.469	0.000	96	143195	2.00	2.04	
128 tert-Butylbenzene	134	12.676	12.676	0.000	93	103376	2.00	1.97	
129 Pentachloroethane	167	12.707	12.707	0.000	88	78737	2.00	1.96	
130 1,2,4-Trimethylbenzene	105	12.719	12.719	0.000	97	491009	2.00	2.04	
131 sec-Butylbenzene	105	12.841	12.841	0.000	94	604355	2.00	2.04	
132 1,3-Dichlorobenzene	146	12.938	12.938	0.000	98	283554	2.00	2.02	
133 4-Isopropyltoluene	119	12.951	12.951	0.000	97	539377	2.00	2.03	
* 134 1,4-Dichlorobenzene-d4	152	12.993	12.993	0.000	94	988230	10.0	10.0	
135 1,4-Dichlorobenzene	146	13.012	13.012	0.000	96	288642	2.00	2.01	
136 1,2,3-Trimethylbenzene	120	13.024	13.024	0.000	98	220038	2.00	2.00	
137 Benzyl chloride	126	13.091	13.091	0.000	98	32184	2.00	1.86	
138 p-Diethylbenzene	119	13.152	13.152	0.000	92	320827	2.00	2.04	
139 n-Butylbenzene	92	13.243	13.243	0.000	97	272389	2.00	2.02	
140 1,2-Dichlorobenzene	146	13.274	13.274	0.000	99	268329	2.00	2.02	
142 1,2-Dibromo-3-Chloropropane	155	13.816	13.816	0.000	86	16467	2.00	2.07	
143 1,3,5-Trichlorobenzene	180	13.938	13.938	0.000	98	230343	2.00	2.03	
144 1,2,4-Trichlorobenzene	180	14.365	14.365	0.000	94	211701	2.00	2.07	
145 Hexachlorobutadiene	225	14.444	14.444	0.000	96	105994	2.00	2.01	
146 Naphthalene	128	14.542	14.542	0.000	97	376055	2.00	2.08	
147 1,2,3-Trichlorobenzene	180	14.688	14.688	0.000	95	186286	2.00	2.09	
148 2-Methylnaphthalene	142	15.304	15.304	0.000	92	218870	2.00	2.16	
160 Pentane	43	2.965	2.965	0.000	96	145783	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00032	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00059	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00036	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00028	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 11-Jan-2022 18:50:10 Chrom Revision: 2.3 03-Jan-2022 17:03:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X14.D

Injection Date: 10-Jan-2022 22:39:30 Instrument ID: 16334 Operator ID: kas02648

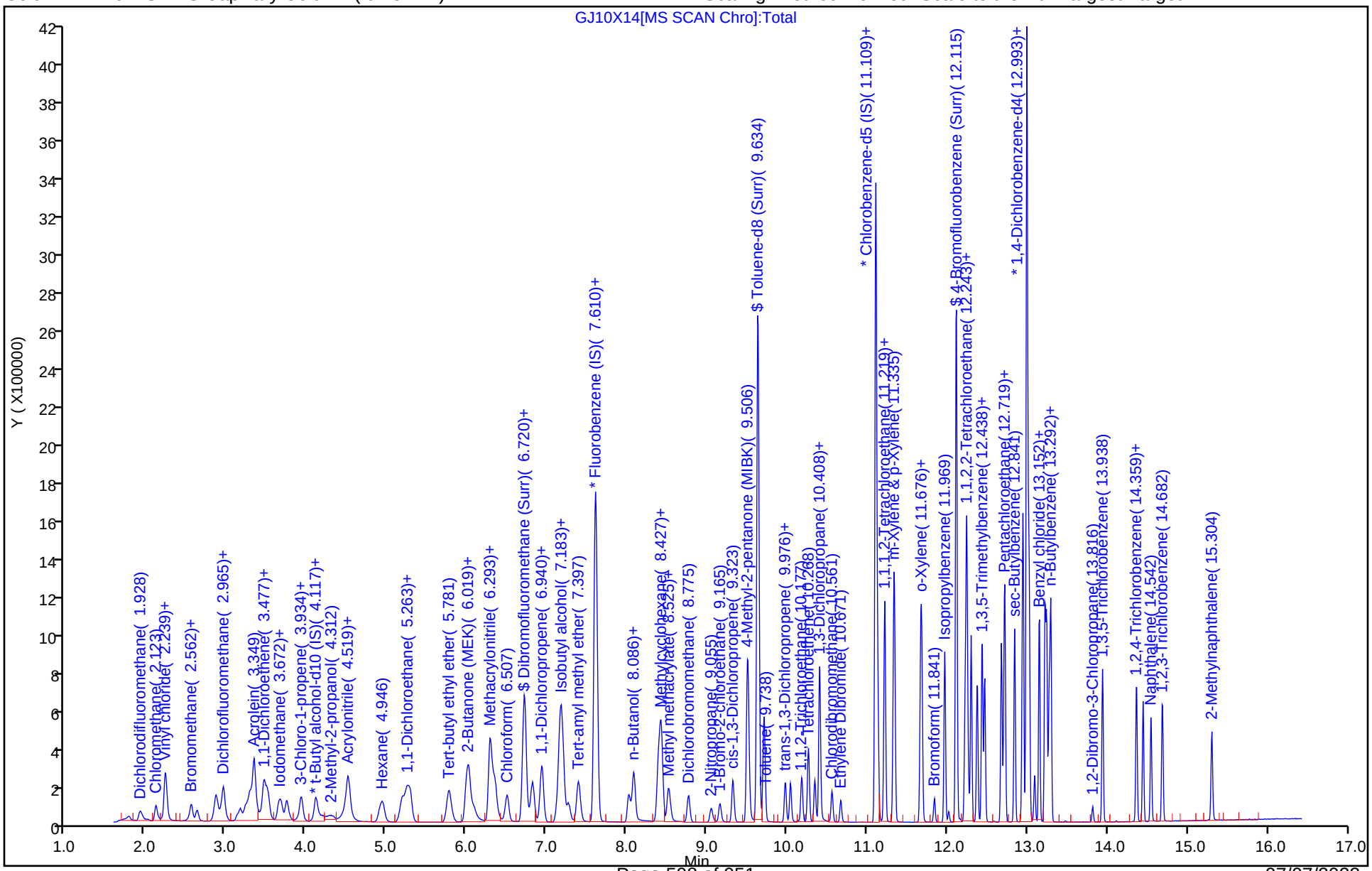
Lims ID: IC std4 Worklist Smp#: 14

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 14

Method: MSV_16334_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

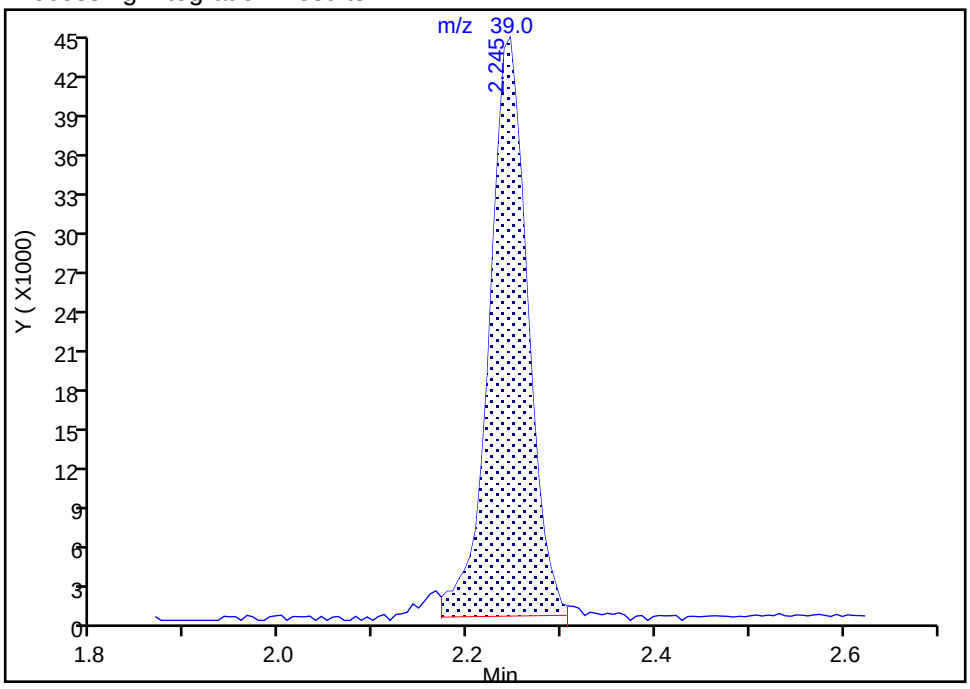
Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X14.D
Injection Date: 10-Jan-2022 22:39:30 Instrument ID: 16334
Lims ID: IC std4
Client ID:
Operator ID: kas02648 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

7 Butadiene, CAS: 106-99-0

Signal: 1

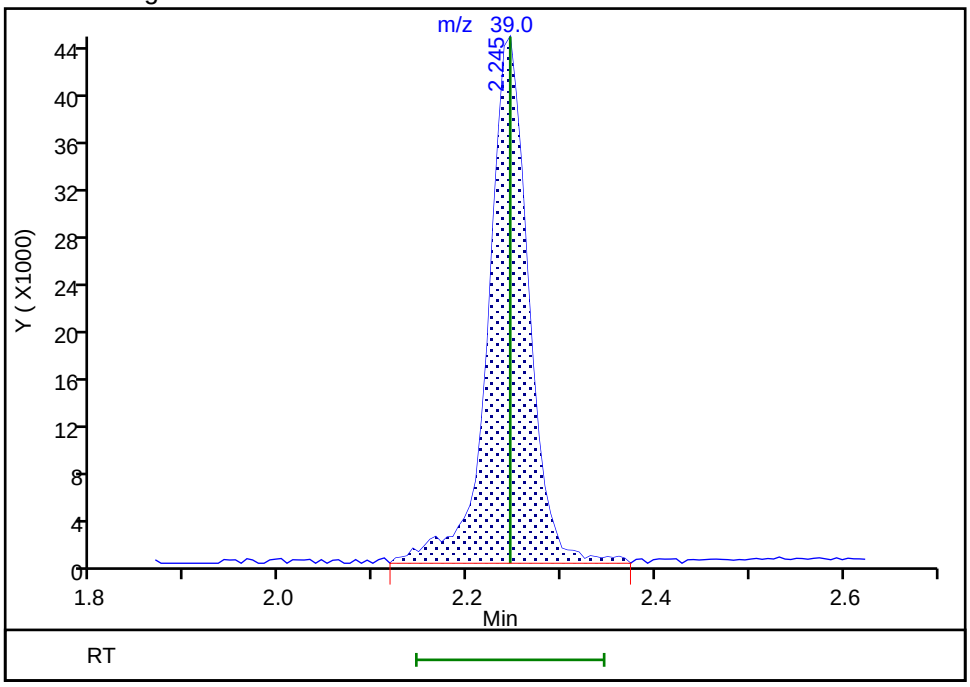
Processing Integration Results

RT: 2.25
Area: 124372
Amount: 1.922675
Amount Units: ug/l



Manual Integration Results

RT: 2.25
Area: 132629
Amount: 1.944746
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:11:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

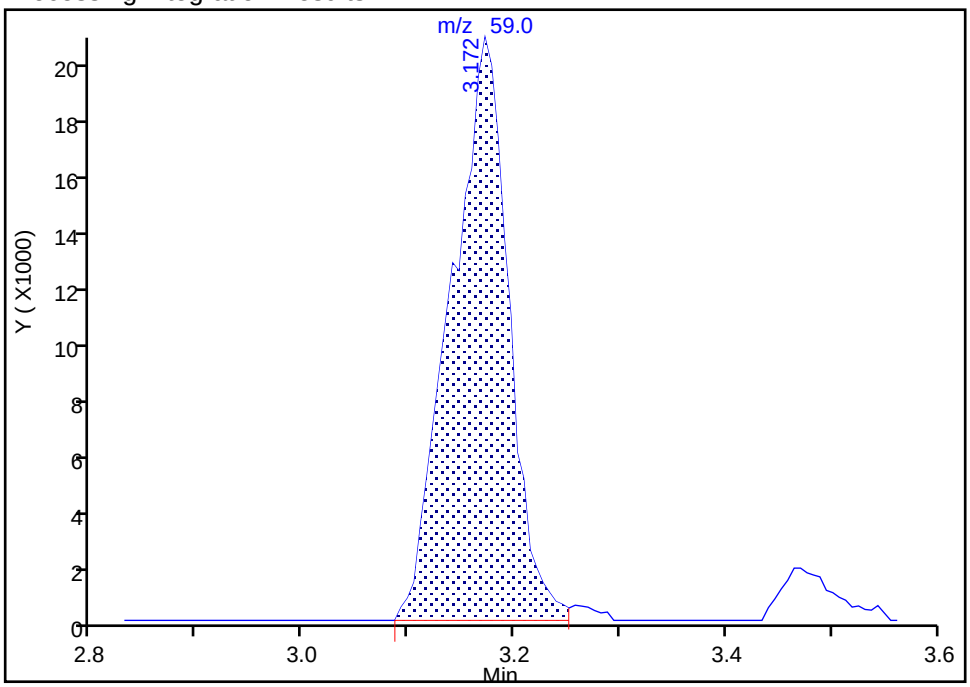
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X14.D				
Injection Date:	10-Jan-2022 22:39:30	Instrument ID:	16334		
Lims ID:	IC std4				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

15 Ethyl ether, CAS: 60-29-7

Signal: 1

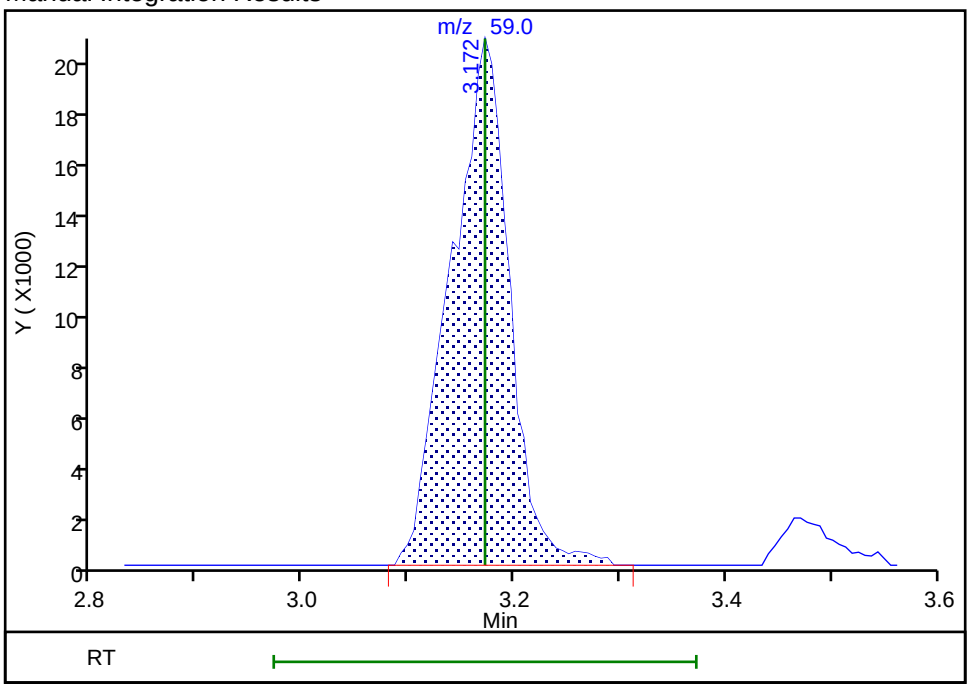
Processing Integration Results

RT: 3.17
Area: 76143
Amount: 2.135122
Amount Units: ug/l



Manual Integration Results

RT: 3.17
Area: 77005
Amount: 1.989376
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:11:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

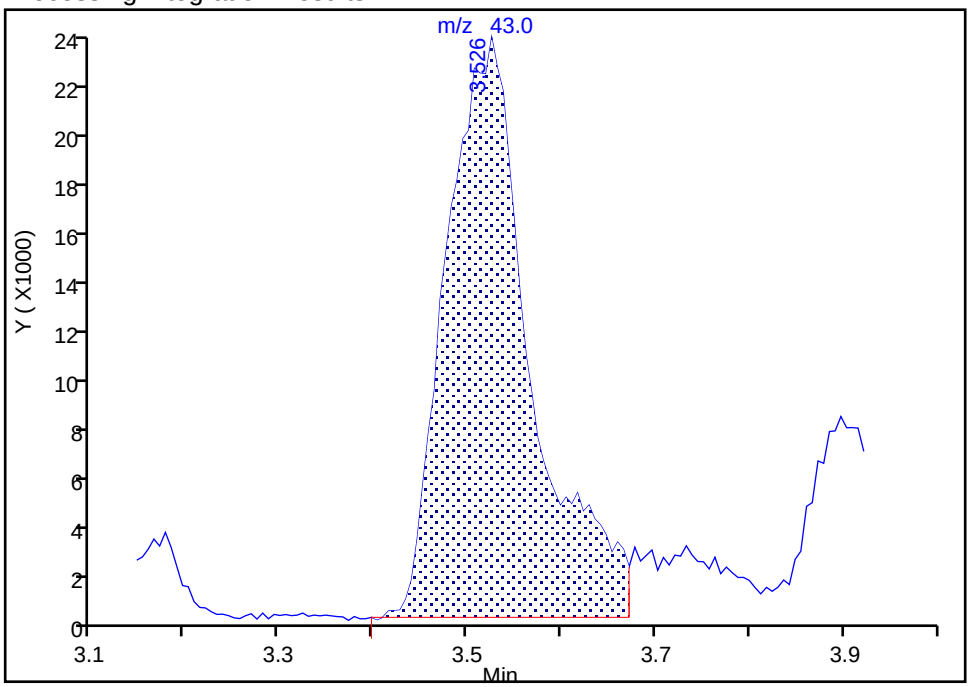
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X14.D				
Injection Date:	10-Jan-2022 22:39:30	Instrument ID:	16334		
Lims ID:	IC std4				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Acetone, CAS: 67-64-1

Signal: 1

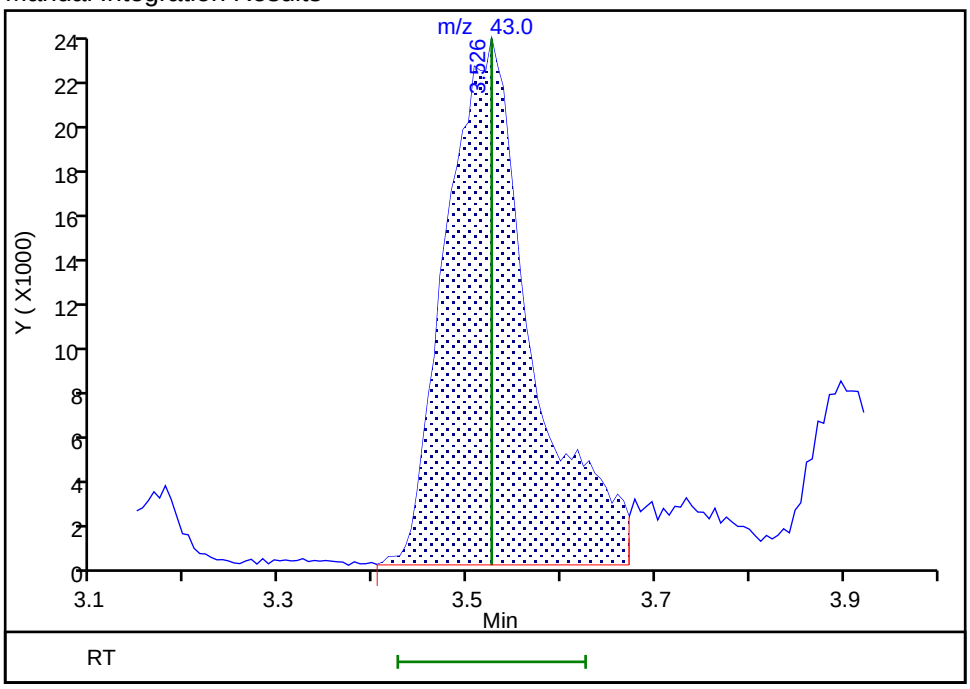
Processing Integration Results

RT: 3.53
Area: 144668
Amount: 16.775883
Amount Units: ug/l



Manual Integration Results

RT: 3.53
Area: 146411
Amount: 17.882919
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:11:44
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

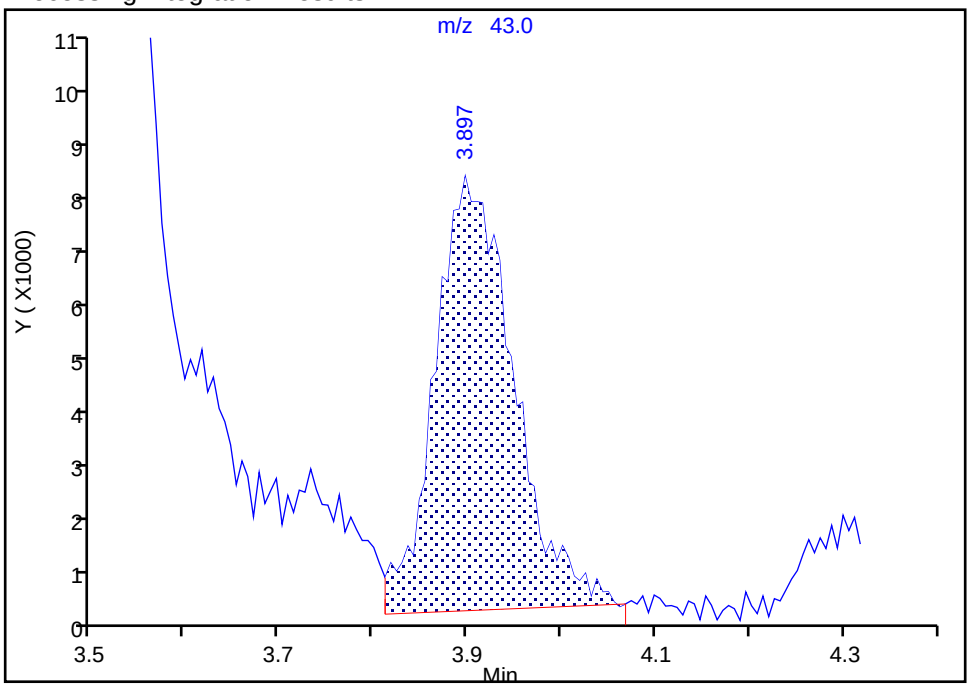
Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X14.D
Injection Date: 10-Jan-2022 22:39:30 Instrument ID: 16334
Lims ID: IC std4
Client ID:
Operator ID: kas02648 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

27 Methyl acetate, CAS: 79-20-9

Signal: 1

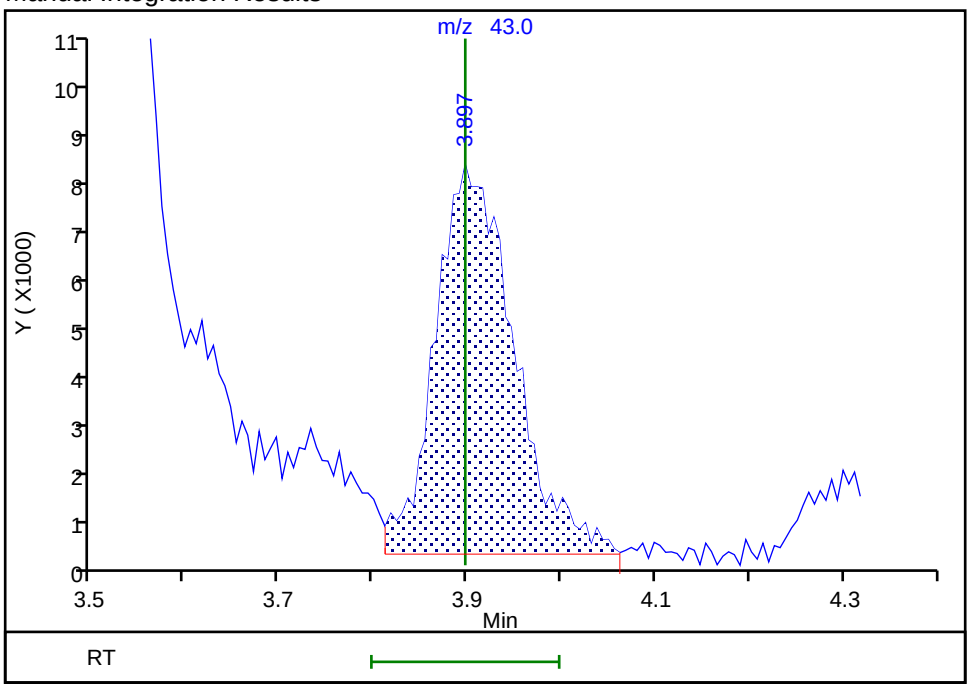
Processing Integration Results

RT: 3.90
Area: 44237
Amount: 1.998559
Amount Units: ug/l



Manual Integration Results

RT: 3.90
Area: 43935
Amount: 1.822714
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:12:02
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

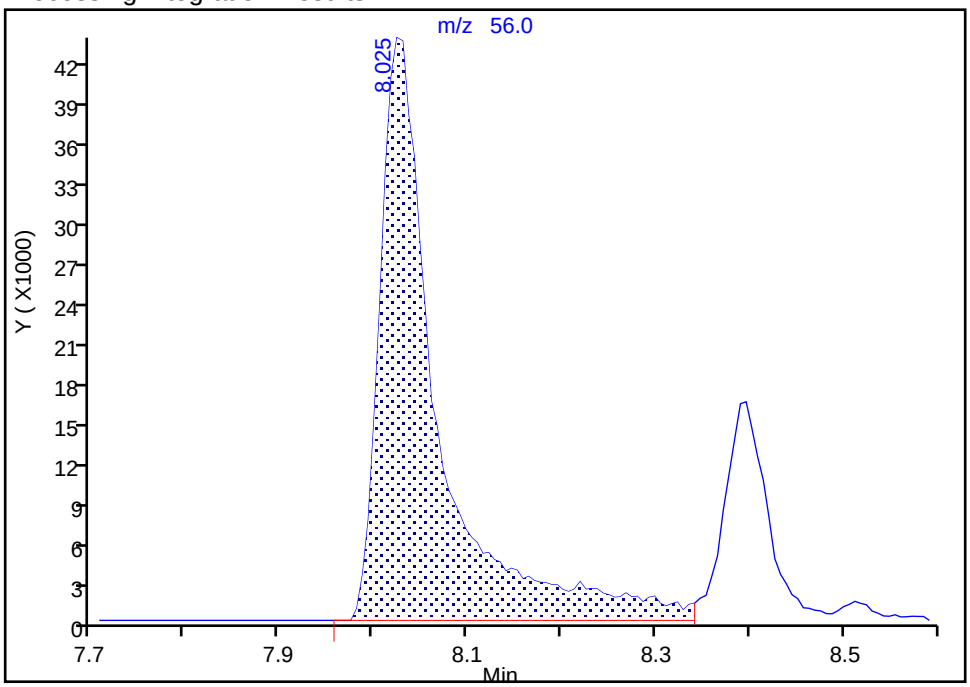
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X14.D				
Injection Date:	10-Jan-2022 22:39:30	Instrument ID:	16334		
Lims ID:	IC std4				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

67 n-Butanol, CAS: 71-36-3

Signal: 1

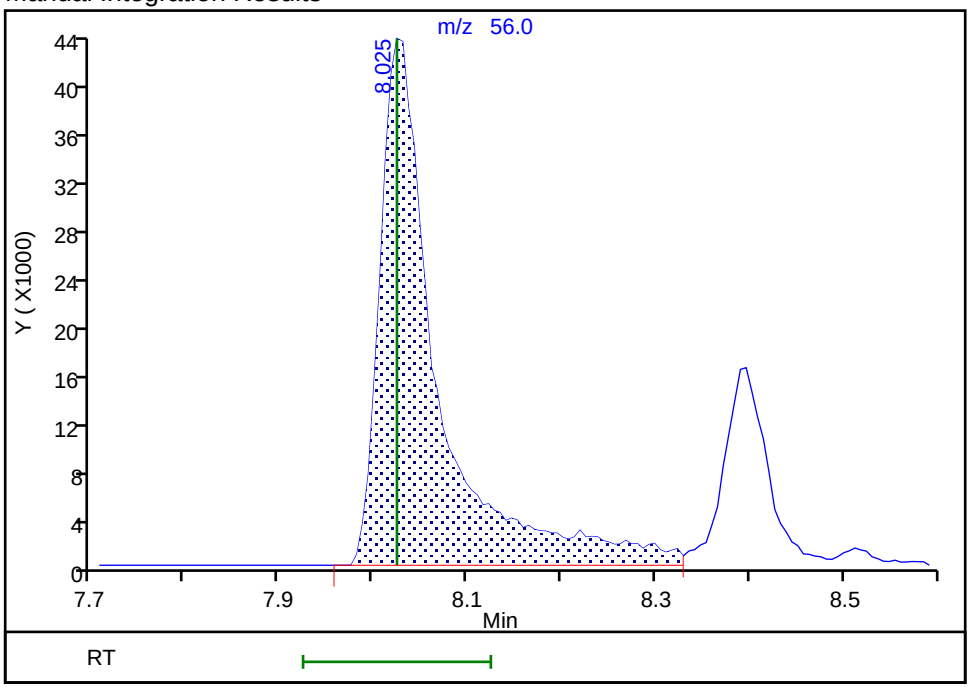
Processing Integration Results

RT: 8.02
Area: 186415
Amount: 166.9970
Amount Units: ug/l



Manual Integration Results

RT: 8.02
Area: 185519
Amount: 175.4409
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:34:18
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X15.D
Lims ID: IC std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 10-Jan-2022 23:01:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0048068-015
Misc. Info.: IC STD3
Operator ID: kas02648 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 11-Jan-2022 18:50:14 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1654

First Level Reviewer: campbellme Date: 11-Jan-2022 18:14:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.928	1.928	0.000	99	55621	1.00	0.99	
5 Chloromethane	50	2.123	2.123	0.000	99	63701	1.00	1.00	M
8 Vinyl chloride	62	2.239	2.239	0.000	97	64287	1.00	0.9720	M
7 Butadiene	39	2.245	2.245	0.000	91	68278	1.00	1.00	M
9 Bromomethane	94	2.562	2.562	0.000	91	46824	1.00	0.9623	
10 Chloroethane	64	2.641	2.636	0.005	100	36930	1.00	0.9386	
12 Dichlorofluoromethane	67	2.879	2.873	0.006	96	87261	1.00	0.9534	
13 Trichlorofluoromethane	101	2.946	2.940	0.006	96	85803	1.00	0.9677	
15 Ethyl ether	59	3.178	3.172	0.006	89	37710	1.00	0.9727	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.257	3.251	0.006	91	61327	1.00	0.9728	
18 Acrolein	56	3.349	3.349	0.000	100	344858	50.0	47.5	
19 1,1-Dichloroethene	96	3.477	3.471	0.006	97	47293	1.00	0.9881	
20 112TCTFE	101	3.513	3.513	0.000	89	47383	1.00	0.99	
21 Acetone	43	3.532	3.526	0.006	85	85621	10.0	10.7	M
23 Iodomethane	142	3.660	3.660	0.000	98	81702	1.00	0.9815	
24 Ethyl bromide	108	3.690	3.690	0.000	96	39805	1.00	0.9773	
22 Isopropyl alcohol	45	3.751	3.757	-0.006	29	33875	20.0	21.1	M
25 Carbon disulfide	76	3.763	3.757	0.006	100	115429	1.00	0.9547	
27 Methyl acetate	43	3.891	3.897	-0.006	96	19449	1.00	0.8240	M
28 3-Chloro-1-propene	41	3.940	3.940	0.000	92	67795	1.00	0.99	
29 Methylene Chloride	84	4.117	4.117	0.000	89	51483	1.00	1.00	
* 30 t-Butyl alcohol-d10 (IS)	65	4.202	4.196	0.006	70	174406	50.0	50.0	
31 2-Methyl-2-propanol	59	4.318	4.306	0.012	99	70659	20.0	22.4	
32 Acrylonitrile	53	4.464	4.464	0.000	98	27226	2.50	2.55	
33 Methyl tert-butyl ether	73	4.519	4.513	0.006	94	128088	1.00	0.9783	
34 trans-1,2-Dichloroethene	96	4.525	4.519	0.006	98	51697	1.00	0.9761	
35 Hexane	57	4.946	4.946	0.000	91	68433	1.00	1.01	
37 1,1-Dichloroethane	63	5.190	5.184	0.006	96	87841	1.00	0.9793	
38 Isopropyl ether	45	5.239	5.251	-0.012	95	152167	1.00	0.9802	
39 2-Chloro-1,3-butadiene	53	5.299	5.294	0.005	91	69785	1.00	0.9670	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.781	5.781	0.000	97	148342	1.00	0.9777	
41 2-Butanone (MEK)	43	6.001	6.001	0.000	99	153993	10.0	9.78	
42 cis-1,2-Dichloroethene	96	6.025	6.025	0.000	80	57030	1.00	0.9845	
43 2,2-Dichloropropane	77	6.037	6.037	0.000	72	65839	1.00	0.9790	
45 Propionitrile	54	6.104	6.098	0.006	99	83166	20.0	20.2	
S 46 1,2-Dichloroethene, Total	100				0			1.96	
48 Methacrylonitrile	67	6.293	6.293	0.000	90	145896	10.0	9.60	
49 Chlorobromomethane	128	6.354	6.354	0.000	91	26058	1.00	1.00	
50 Tetrahydrofuran	71	6.366	6.354	0.012	74	21732	5.00	4.89	
51 Chloroform	83	6.507	6.507	0.000	92	88779	1.00	0.9733	
$ 52 Dibromofluoromethane (Surr)	113	6.720	6.720	0.000	94	549991	10.0	9.94	
53 1,1,1-Trichloroethane	97	6.732	6.732	0.000	41	75958	1.00	0.9742	
54 Cyclohexane	56	6.824	6.824	0.000	89	84013	1.00	1.00	
56 Carbon tetrachloride	117	6.939	6.933	0.006	86	65770	1.00	0.9775	
57 1,1-Dichloropropene	75	6.946	6.940	0.006	96	69607	1.00	0.9775	
58 Isobutyl alcohol	41	7.141	7.141	0.000	92	54751	50.0	49.7	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.171	7.171	0.000	87	116421	10.0	9.95	
60 Benzene	78	7.208	7.202	0.006	93	209755	1.00	0.9789	
61 1,2-Dichloroethane	62	7.275	7.269	0.006	97	56708	1.00	0.9761	
63 Tert-amyl methyl ether	73	7.403	7.397	0.006	99	135598	1.00	0.9695	
* 64 Fluorobenzene (IS)	96	7.610	7.610	0.000	99	2305396	10.0	10.0	
65 n-Heptane	43	7.622	7.622	0.000	38	70465	1.00	1.00	
67 n-Butanol	56	8.031	8.025	0.006	88	85168	87.5	82.3	
68 Trichloroethene	95	8.086	8.086	0.000	96	55419	1.00	0.9647	
69 Methylcyclohexane	83	8.396	8.397	-0.001	92	93133	1.00	0.9832	
70 1,2-Dichloropropane	63	8.421	8.427	-0.006	95	53318	1.00	0.9858	
71 2-ethoxy-2-methyl butane	87	8.433	8.433	0.000	94	77139	1.00	0.9758	
72 Methyl methacrylate	69	8.512	8.519	-0.006	88	27555	1.00	0.9523	
74 Dibromomethane	93	8.531	8.531	0.000	93	26631	1.00	0.9738	
73 1,4-Dioxane	88	8.579	8.561	0.018	73	9754	50.0	44.4	M
76 Dichlorobromomethane	83	8.774	8.775	-0.001	99	59095	1.00	0.9475	
77 2-Nitropropane	41	9.055	9.055	0.000	97	28334	5.00	4.38	
80 1-Bromo-2-chloroethane	63	9.165	9.165	0.000	98	54593	1.00	0.9547	
81 cis-1,3-Dichloropropene	75	9.323	9.323	0.000	96	73604	1.00	0.9397	
82 4-Methyl-2-pentanone (MIBK)	43	9.506	9.506	0.000	96	362626	10.0	9.50	
$ 83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	2250050	10.0	10.0	
84 Toluene	92	9.713	9.713	0.000	98	137617	1.00	0.9871	
96 trans-1,3-Dichloropropene	75	9.982	9.976	0.006	92	59045	1.00	0.9166	
98 Ethyl methacrylate	69	10.042	10.043	-0.001	88	55310	1.00	0.9562	
S 97 1,3-Dichloropropene, Total	100				0			1.86	
99 1,1,2-Trichloroethane	97	10.183	10.183	0.000	91	39658	1.00	0.9703	
100 Tetrachloroethene	166	10.268	10.268	0.000	97	62513	1.00	0.9635	
101 1,3-Dichloropropane	76	10.347	10.347	0.000	89	67684	1.00	0.9788	
102 2-Hexanone	43	10.408	10.408	0.000	96	257444	10.0	9.39	
104 Chlorodibromomethane	129	10.561	10.561	0.000	89	43267	1.00	0.9408	
105 Ethylene Dibromide	107	10.670	10.671	-0.001	97	38676	1.00	0.9815	
* 106 Chlorobenzene-d5 (IS)	117	11.109	11.109	0.000	84	1750307	10.0	10.0	
107 1-Chlorohexane	91	11.122	11.116	0.006	95	77092	1.00	0.9671	
108 Chlorobenzene	112	11.134	11.134	0.000	96	158151	1.00	0.9764	
110 1,1,1,2-Tetrachloroethane	131	11.219	11.219	0.000	94	51048	1.00	0.9491	
111 Ethylbenzene	91	11.219	11.219	0.000	98	266037	1.00	0.9777	
S 109 Xylenes, Total	106				0			2.94	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
112 m-Xylene & p-Xylene	106	11.335	11.335	0.000	100	207156	2.00	1.97	
113 o-Xylene	106	11.664	11.670	-0.006	96	100720	1.00	0.9648	
114 Styrene	104	11.682	11.683	-0.001	94	171925	1.00	0.9733	
115 Bromoform	173	11.841	11.841	0.000	97	25527	1.00	0.9307	
116 Isopropylbenzene	105	11.969	11.969	0.000	95	265342	1.00	0.9885	
$ 119 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	92	846977	10.0	10.0	
120 1,1,2,2-Tetrachloroethane	83	12.219	12.219	0.000	94	52839	1.00	0.9710	
121 Bromobenzene	156	12.231	12.231	0.000	92	66853	1.00	0.9738	
122 trans-1,4-Dichloro-2-butene	53	12.243	12.243	0.000	95	116199	10.0	9.04	
123 1,2,3-Trichloropropane	110	12.262	12.262	0.000	80	13765	1.00	0.9533	
124 N-Propylbenzene	91	12.298	12.298	0.000	99	320678	1.00	0.9877	
125 2-Chlorotoluene	126	12.377	12.378	-0.001	97	66196	1.00	0.9809	
126 1,3,5-Trimethylbenzene	105	12.432	12.438	-0.006	94	225203	1.00	0.9714	
127 4-Chlorotoluene	126	12.469	12.469	0.000	96	70737	1.00	1.01	
128 tert-Butylbenzene	134	12.676	12.676	0.000	93	50003	1.00	0.9568	
129 Pentachloroethane	167	12.707	12.707	0.000	90	37478	1.00	0.9356	
130 1,2,4-Trimethylbenzene	105	12.719	12.719	0.000	97	233982	1.00	0.9762	
131 sec-Butylbenzene	105	12.841	12.841	0.000	94	292229	1.00	0.9892	
132 1,3-Dichlorobenzene	146	12.938	12.938	0.000	98	138434	1.00	0.99	
133 4-Isopropyltoluene	119	12.950	12.951	-0.001	97	258813	1.00	0.9797	
* 134 1,4-Dichlorobenzene-d4	152	12.993	12.993	0.000	96	984324	10.0	10.0	
135 1,4-Dichlorobenzene	146	13.011	13.012	-0.001	95	137449	1.00	0.9608	
136 1,2,3-Trimethylbenzene	120	13.024	13.024	0.000	98	106206	1.00	0.9702	
137 Benzyl chloride	126	13.091	13.091	0.000	99	13039	1.00	0.9011	
138 p-Diethylbenzene	119	13.152	13.152	0.000	92	155087	1.00	0.99	
139 n-Butylbenzene	92	13.243	13.243	0.000	97	132740	1.00	0.9870	
140 1,2-Dichlorobenzene	146	13.274	13.274	0.000	99	129003	1.00	0.9759	
142 1,2-Dibromo-3-Chloropropane	155	13.816	13.816	0.000	89	7519	1.00	0.9508	
143 1,3,5-Trichlorobenzene	180	13.938	13.938	0.000	97	111524	1.00	0.9859	
144 1,2,4-Trichlorobenzene	180	14.365	14.365	0.000	94	98420	1.00	0.9656	
145 Hexachlorobutadiene	225	14.444	14.444	0.000	96	51487	1.00	0.9794	
146 Naphthalene	128	14.542	14.542	0.000	97	174490	1.00	0.9711	
147 1,2,3-Trichlorobenzene	180	14.688	14.688	0.000	96	88651	1.00	1.00	
148 2-Methylnaphthalene	142	15.304	15.304	0.000	91	96352	1.00	0.9563	
160 Pentane	43	2.971	2.965	0.006	97	74953	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00032	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00059	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00036	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00028	Amount Added:	1.00	Units: uL	Run Reagent

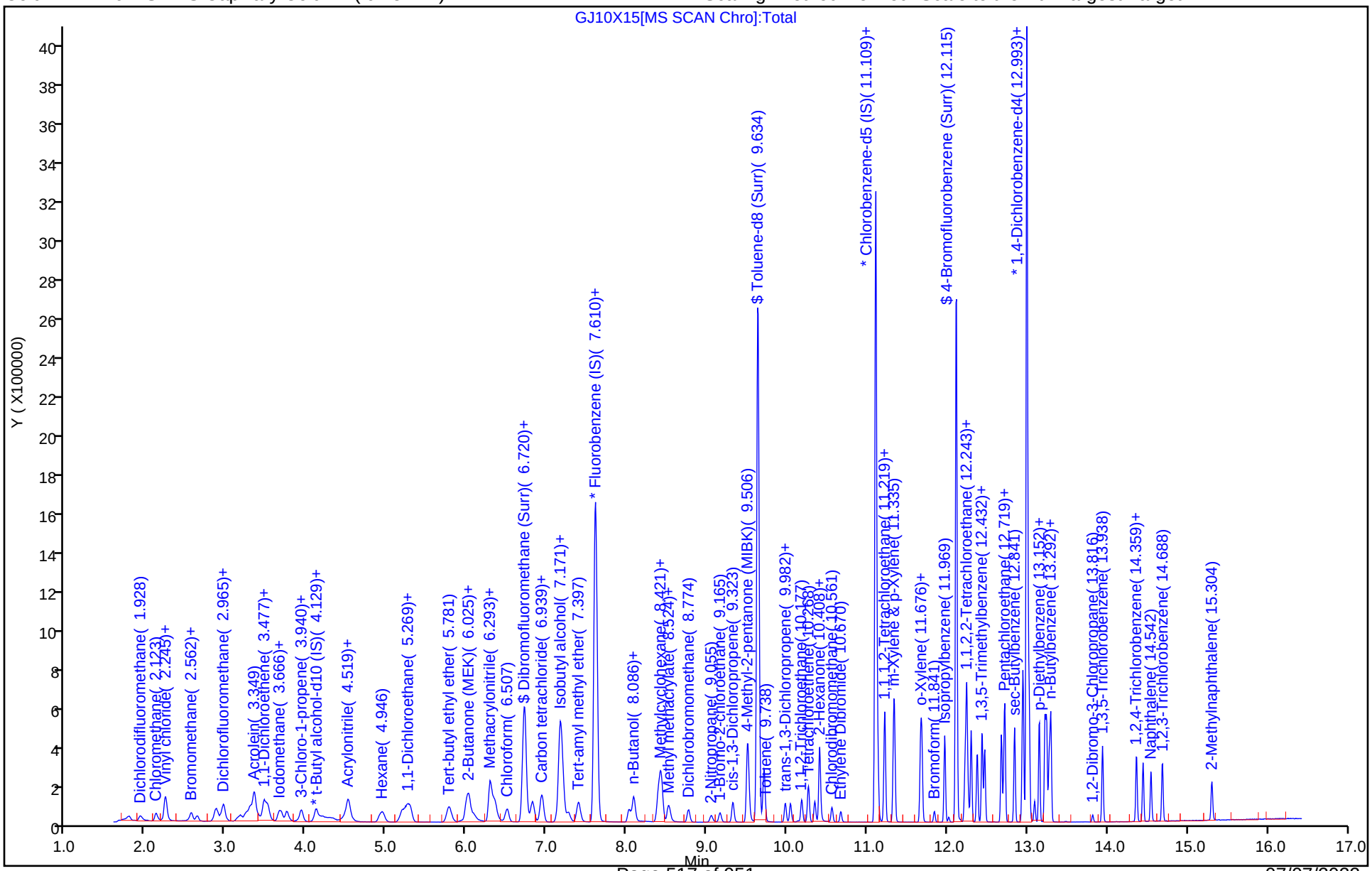
Report Date: 11-Jan-2022 18:50:15 Chrom Revision: 2.3 03-Jan-2022 17:03:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X15.D

Injection Date:	10-Jan-2022 23:01:30	Instrument ID:	16334	Operator ID:	kas02648
Lims ID:	IC std3			Worklist Smp#:	15
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

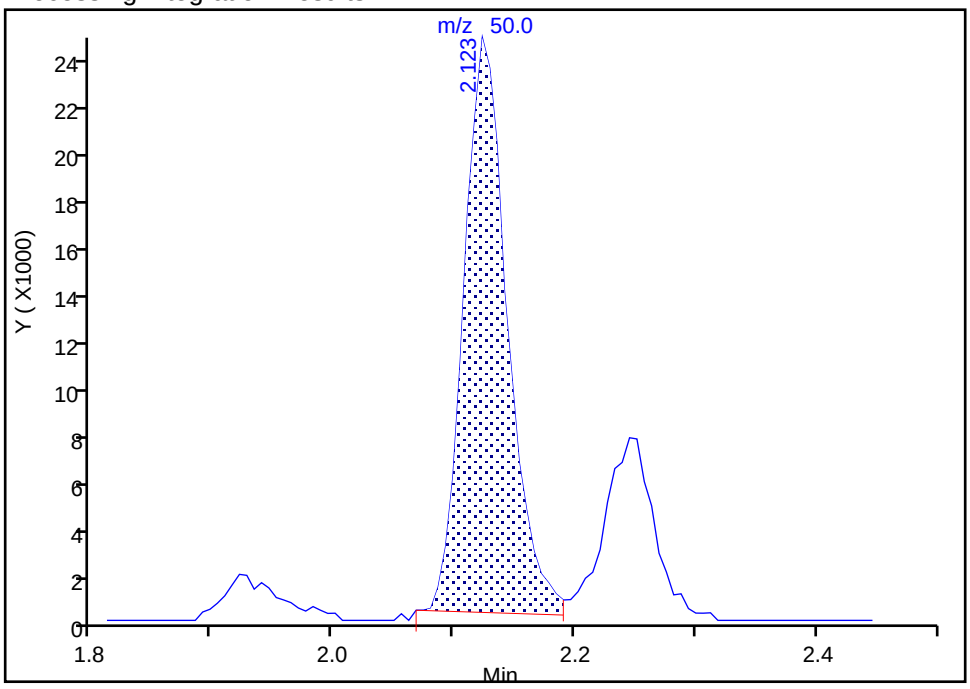
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X15.D				
Injection Date:	10-Jan-2022 23:01:30	Instrument ID:	16334		
Lims ID:	IC std3				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

5 Chloromethane, CAS: 74-87-3

Signal: 1

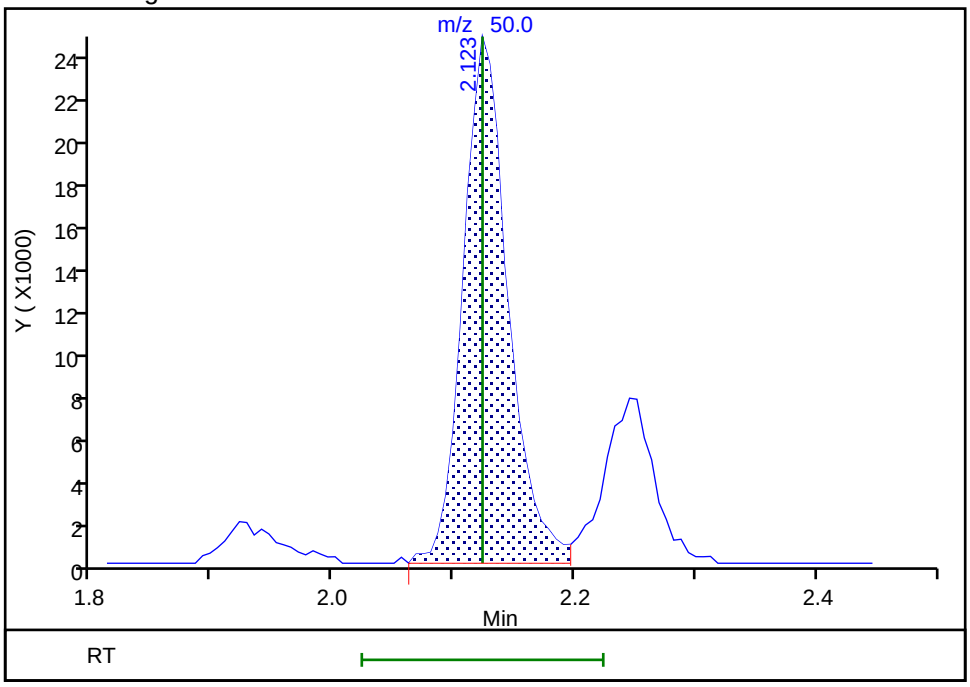
Processing Integration Results

RT: 2.12
Area: 60877
Amount: 0.958687
Amount Units: ug/l



Manual Integration Results

RT: 2.12
Area: 63701
Amount: 0.996826
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:12:53

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

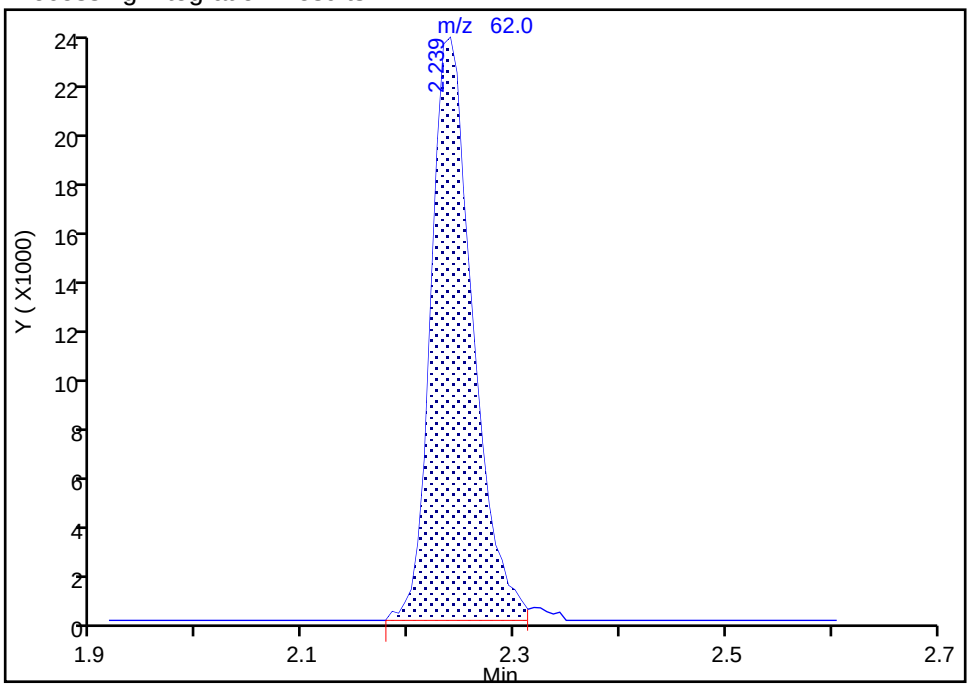
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X15.D				
Injection Date:	10-Jan-2022 23:01:30	Instrument ID:	16334		
Lims ID:	IC std3				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

8 Vinyl chloride, CAS: 75-01-4

Signal: 1

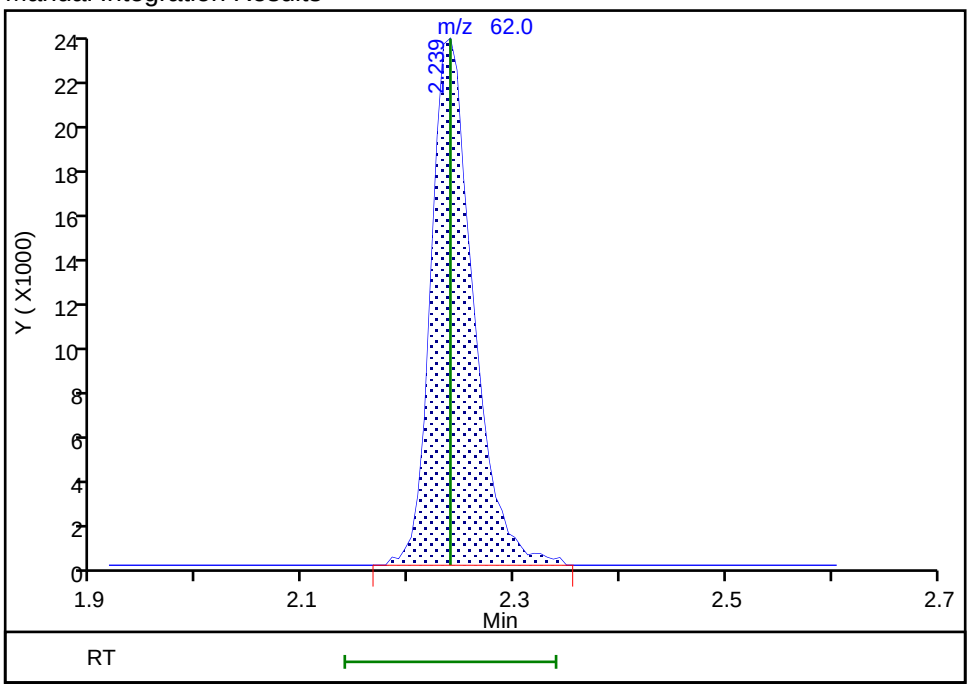
Processing Integration Results

RT: 2.24
Area: 63585
Amount: 0.962852
Amount Units: ug/l



Manual Integration Results

RT: 2.24
Area: 64287
Amount: 0.972006
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:12:58

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

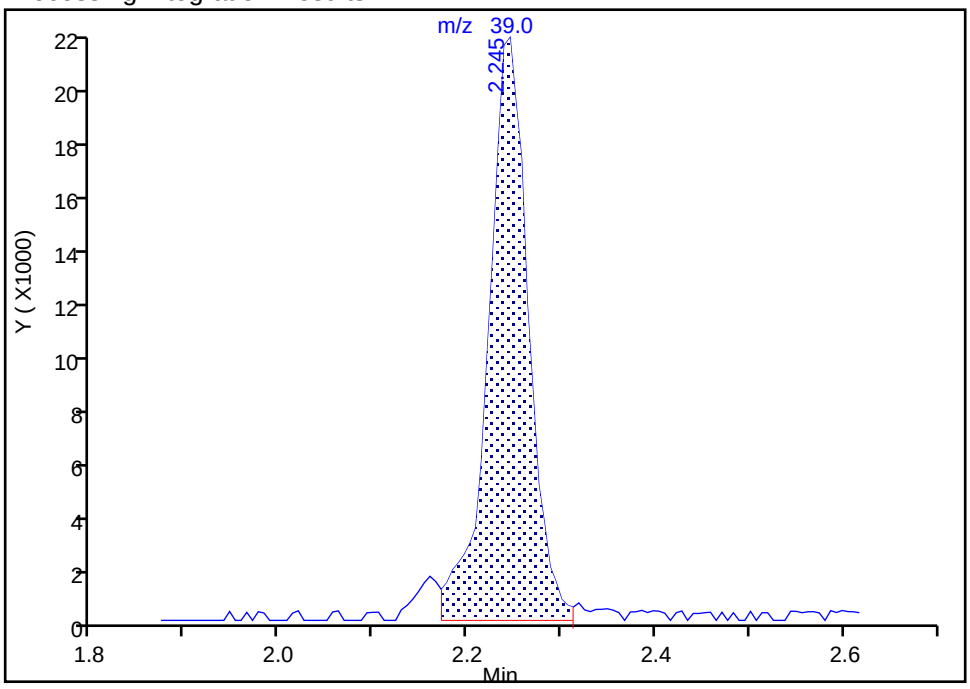
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X15.D				
Injection Date:	10-Jan-2022 23:01:30	Instrument ID:	16334		
Lims ID:	IC std3				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

7 Butadiene, CAS: 106-99-0

Signal: 1

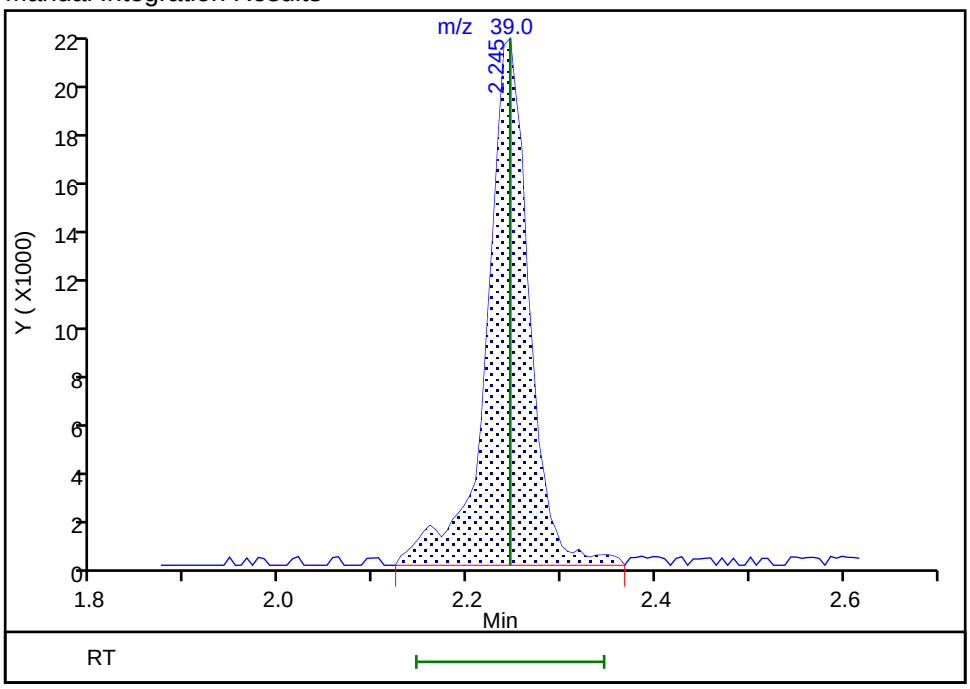
Processing Integration Results

RT: 2.25
Area: 64410
Amount: 0.985232
Amount Units: ug/l



Manual Integration Results

RT: 2.25
Area: 68278
Amount: 0.999652
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:13:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

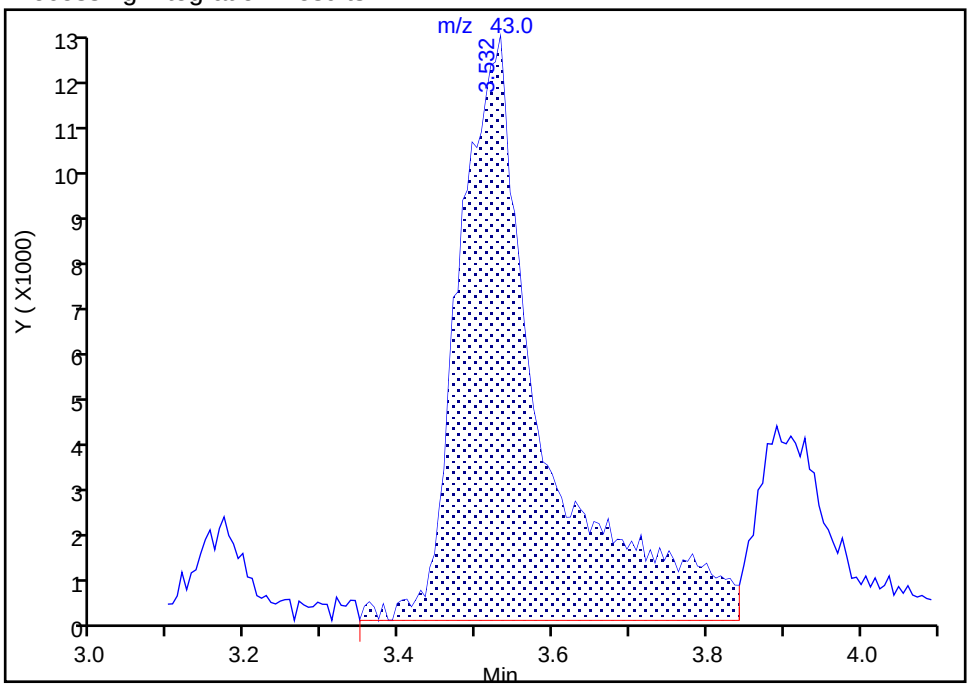
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X15.D				
Injection Date:	10-Jan-2022 23:01:30	Instrument ID:	16334		
Lims ID:	IC std3				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Acetone, CAS: 67-64-1

Signal: 1

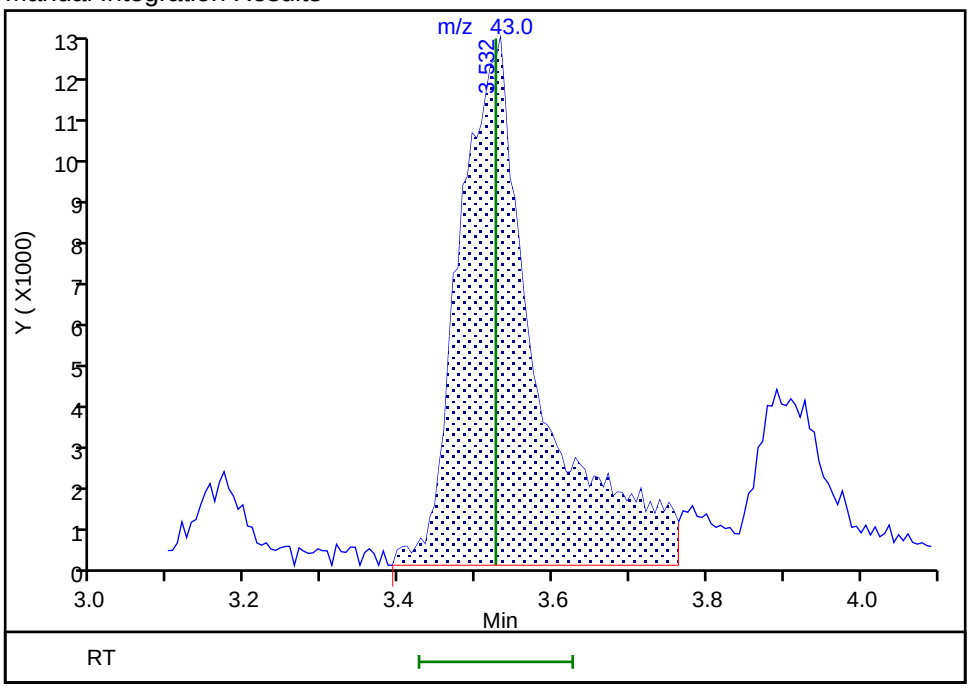
Processing Integration Results

RT: 3.53
Area: 90878
Amount: 10.746502
Amount Units: ug/l



Manual Integration Results

RT: 3.53
Area: 85621
Amount: 10.679895
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:13:24
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

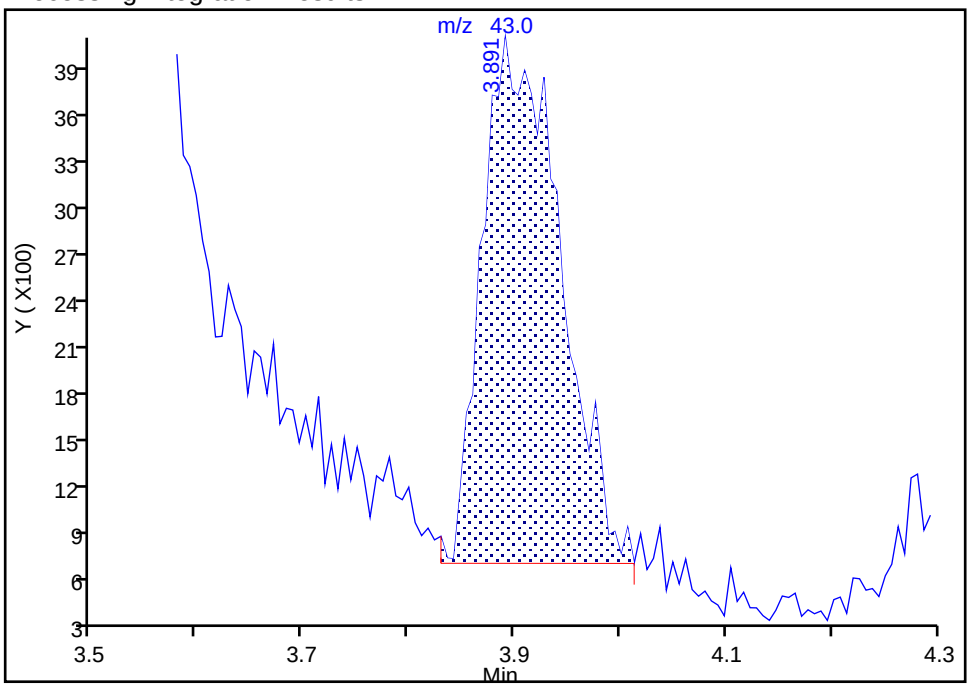
Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X15.D
Injection Date: 10-Jan-2022 23:01:30 Instrument ID: 16334
Lims ID: IC std3
Client ID:
Operator ID: kas02648 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

27 Methyl acetate, CAS: 79-20-9

Signal: 1

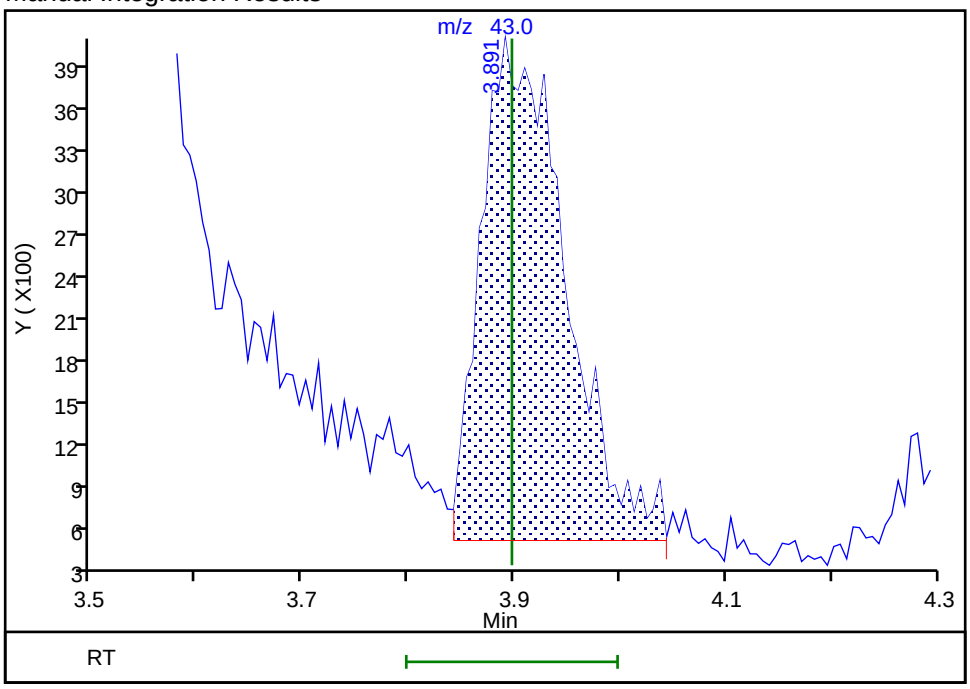
Processing Integration Results

RT: 3.89
Area: 17105
Amount: 0.789950
Amount Units: ug/l



Manual Integration Results

RT: 3.89
Area: 19449
Amount: 0.824000
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:13:45
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

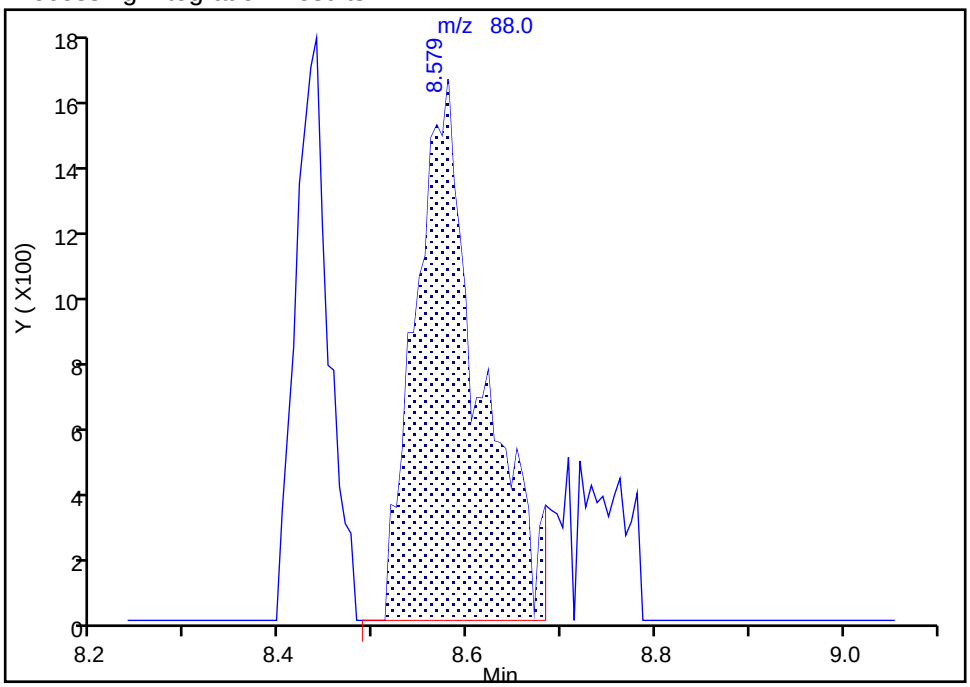
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X15.D				
Injection Date:	10-Jan-2022 23:01:30	Instrument ID:	16334		
Lims ID:	IC std3				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

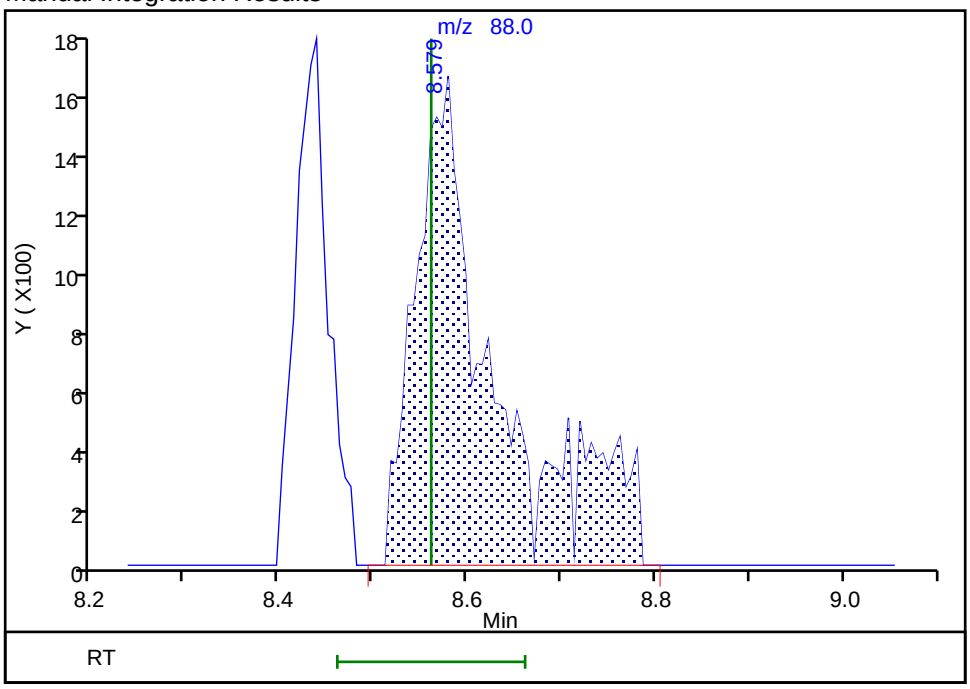
Processing Integration Results

RT: 8.58
Area: 7760
Amount: 40.384104
Amount Units: ug/l



Manual Integration Results

RT: 8.58
Area: 9754
Amount: 44.436501
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:14:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X16.D
Lims ID: IC std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 10-Jan-2022 23:23:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0048068-016
Misc. Info.: IC STD2
Operator ID: kas02648 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 11-Jan-2022 18:50:20 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1654

First Level Reviewer: campbellme Date: 11-Jan-2022 18:16:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.910	1.928	-0.018	99	24569	0.5000	0.4395	
5 Chloromethane	50	2.111	2.123	-0.012	98	30661	0.5000	0.4800	
8 Vinyl chloride	62	2.227	2.239	-0.012	97	31802	0.5000	0.4811	
7 Butadiene	39	2.227	2.245	-0.018	90	34075	0.5000	0.4991	M
9 Bromomethane	94	2.550	2.562	-0.012	91	23491	0.5000	0.4830	
10 Chloroethane	64	2.623	2.636	-0.013	98	18591	0.5000	0.4727	
12 Dichlorofluoromethane	67	2.855	2.873	-0.018	96	44136	0.5000	0.4824	
13 Trichlorofluoromethane	101	2.928	2.940	-0.012	96	40596	0.5000	0.4581	
15 Ethyl ether	59	3.160	3.172	-0.012	90	17968	0.5000	0.4637	M
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.257	3.251	0.006	90	29426	0.5000	0.4670	
18 Acrolein	56	3.337	3.349	-0.012	100	169481	25.0	23.5	
19 1,1-Dichloroethene	96	3.458	3.471	-0.013	97	23175	0.5000	0.4844	
20 112TCTFE	101	3.501	3.513	-0.012	89	23565	0.5000	0.4930	
21 Acetone	43	3.495	3.526	-0.031	98	37302	5.00	4.68	M
23 Iodomethane	142	3.647	3.660	-0.013	98	40938	0.5000	0.4920	
24 Ethyl bromide	108	3.672	3.690	-0.018	95	20347	0.4998	0.4998	
22 Isopropyl alcohol	45	3.721	3.757	-0.036	95	14226	10.0	8.88	
25 Carbon disulfide	76	3.745	3.757	-0.012	100	55099	0.5000	0.4559	
27 Methyl acetate	43	3.879	3.897	-0.018	20	13103	0.5000	0.5583	M
28 3-Chloro-1-propene	41	3.928	3.940	-0.012	93	32922	0.5000	0.4832	
29 Methylene Chloride	84	4.111	4.117	-0.006	89	24481	0.5000	0.4744	
* 30 t-Butyl alcohol-d10 (IS)	65	4.166	4.196	-0.030	70	173413	50.0	50.0	
31 2-Methyl-2-propanol	59	4.281	4.306	-0.025	96	32543	10.0	10.4	M
32 Acrylonitrile	53	4.470	4.464	0.006	97	11668	1.25	1.10	
33 Methyl tert-butyl ether	73	4.495	4.513	-0.018	94	64708	0.5000	0.4945	
34 trans-1,2-Dichloroethene	96	4.513	4.519	-0.006	99	25599	0.5000	0.4836	
35 Hexane	57	4.922	4.946	-0.024	91	32460	0.5000	0.4800	
37 1,1-Dichloroethane	63	5.178	5.184	-0.006	96	43325	0.5000	0.4832	
38 Isopropyl ether	45	5.233	5.251	-0.018	96	73838	0.5000	0.4758	
39 2-Chloro-1,3-butadiene	53	5.287	5.294	-0.007	91	33900	0.5000	0.4699	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.781	5.781	0.000	97	73012	0.5000	0.4814	M
41 2-Butanone (MEK)	43	5.995	6.001	-0.006	98	73109	5.00	4.67	
42 cis-1,2-Dichloroethene	96	6.025	6.025	0.000	80	27880	0.5000	0.4815	a
43 2,2-Dichloropropane	77	6.025	6.037	-0.012	65	31657	0.5000	0.4709	
45 Propionitrile	54	6.092	6.098	-0.006	98	38632	10.0	9.43	
S 46 1,2-Dichloroethene, Total	100				0			0.9650	
48 Methacrylonitrile	67	6.287	6.293	-0.006	90	70854	5.00	4.69	
49 Chlorobromomethane	128	6.354	6.354	0.000	85	12199	0.5000	0.4686	
50 Tetrahydrofuran	71	6.360	6.354	0.006	75	9967	2.50	2.26	
51 Chloroform	83	6.501	6.507	-0.006	93	43289	0.5000	0.4748	
$ 52 Dibromofluoromethane (Surr)	113	6.714	6.720	-0.006	94	555573	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.720	6.732	-0.012	38	37245	0.5000	0.4779	
54 Cyclohexane	56	6.818	6.824	-0.006	88	40808	0.5000	0.4839	
56 Carbon tetrachloride	117	6.933	6.933	0.000	88	31143	0.5000	0.4630	
57 1,1-Dichloropropene	75	6.940	6.940	0.000	95	32627	0.5000	0.4584	
58 Isobutyl alcohol	41	7.128	7.141	-0.013	90	25491	25.0	23.2	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.159	7.171	-0.012	89	117681	10.0	10.1	
60 Benzene	78	7.196	7.202	-0.006	94	102898	0.5000	0.4804	
61 1,2-Dichloroethane	62	7.263	7.269	-0.006	98	28591	0.5000	0.4924	
63 Tert-amyl methyl ether	73	7.391	7.397	-0.006	99	67496	0.5000	0.4828	a
* 64 Fluorobenzene (IS)	96	7.604	7.610	-0.006	99	2304387	10.0	10.0	
65 n-Heptane	43	7.616	7.622	-0.006	44	33823	0.5000	0.4816	
67 n-Butanol	56	8.031	8.025	0.006	89	38039	43.8	36.9	M
68 Trichloroethene	95	8.086	8.086	0.000	95	27668	0.5000	0.4818	
69 Methylcyclohexane	83	8.390	8.397	-0.007	90	44525	0.5000	0.4702	
70 1,2-Dichloropropane	63	8.421	8.427	-0.006	95	25330	0.5000	0.4686	
71 2-ethoxy-2-methyl butane	87	8.433	8.433	0.000	96	37654	0.5000	0.4765	
72 Methyl methacrylate	69	8.506	8.519	-0.012	73	12894	0.5000	0.4481	
74 Dibromomethane	93	8.531	8.531	0.000	93	13048	0.5000	0.4773	
73 1,4-Dioxane	88	8.549	8.561	-0.012	74	3524	25.0	16.1	M
76 Dichlorobromomethane	83	8.762	8.775	-0.013	99	28868	0.5000	0.4630	
77 2-Nitropropane	41	9.049	9.055	-0.006	98	13433	2.50	2.09	
80 1-Bromo-2-chloroethane	63	9.159	9.165	-0.006	98	27301	0.5000	0.4777	
81 cis-1,3-Dichloropropene	75	9.323	9.323	0.000	96	35336	0.5000	0.4513	
82 4-Methyl-2-pentanone (MIBK)	43	9.506	9.506	0.000	96	174702	5.00	4.60	
$ 83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	2249300	10.0	10.0	
84 Toluene	92	9.713	9.713	0.000	97	67780	0.5000	0.4862	
96 trans-1,3-Dichloropropene	75	9.975	9.976	-0.001	91	28638	0.5000	0.4446	
98 Ethyl methacrylate	69	10.043	10.043	0.000	89	26643	0.5000	0.4606	
S 97 1,3-Dichloropropene, Total	100				0			0.8959	
99 1,1,2-Trichloroethane	97	10.183	10.183	0.000	90	19539	0.5000	0.4781	
100 Tetrachloroethene	166	10.268	10.268	0.000	98	31878	0.5000	0.4913	
101 1,3-Dichloropropane	76	10.347	10.347	0.000	89	32746	0.5000	0.4736	
102 2-Hexanone	43	10.408	10.408	0.000	97	123176	5.00	4.52	
104 Chlorodibromomethane	129	10.561	10.561	0.000	90	20273	0.5000	0.4408	
105 Ethylene Dibromide	107	10.670	10.671	-0.001	99	18087	0.5000	0.4590	
* 106 Chlorobenzene-d5 (IS)	117	11.109	11.109	0.000	84	1750245	10.0	10.0	
107 1-Chlorohexane	91	11.116	11.116	0.000	95	39268	0.5000	0.4927	
108 Chlorobenzene	112	11.134	11.134	0.000	96	78965	0.5000	0.4875	
110 1,1,1,2-Tetrachloroethane	131	11.213	11.219	-0.006	94	24925	0.5000	0.4634	
111 Ethylbenzene	91	11.219	11.219	0.000	98	130936	0.5000	0.4812	
S 109 Xylenes, Total	106				0			1.43	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
112 m-Xylene & p-Xylene	106	11.341	11.335	0.006	100	99867	1.00	0.9518	
113 o-Xylene	106	11.670	11.670	0.000	96	49633	0.5000	0.4755	
114 Styrene	104	11.682	11.683	-0.001	94	83585	0.5000	0.4732	
115 Bromoform	173	11.841	11.841	0.000	98	11633	0.5000	0.4241	
116 Isopropylbenzene	105	11.969	11.969	0.000	95	126392	0.5000	0.4709	
$ 119 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	92	842902	10.0	9.97	
120 1,1,2,2-Tetrachloroethane	83	12.219	12.219	0.000	94	25577	0.5000	0.4721	
121 Bromobenzene	156	12.231	12.231	0.000	90	33200	0.5000	0.4857	
122 trans-1,4-Dichloro-2-butene	53	12.243	12.243	0.000	92	53760	5.00	4.21	
123 1,2,3-Trichloropropane	110	12.262	12.262	0.000	78	6918	0.5000	0.4812	
124 N-Propylbenzene	91	12.298	12.298	0.000	99	156361	0.5000	0.4837	
125 2-Chlorotoluene	126	12.371	12.378	-0.007	97	32691	0.5000	0.4866	
126 1,3,5-Trimethylbenzene	105	12.432	12.438	-0.006	94	109282	0.5000	0.4735	
127 4-Chlorotoluene	126	12.469	12.469	0.000	97	32773	0.5000	0.4705	
128 tert-Butylbenzene	134	12.676	12.676	0.000	92	25596	0.5000	0.4919	
129 Pentachloroethane	167	12.707	12.707	0.000	76	17225	0.5000	0.4319	
130 1,2,4-Trimethylbenzene	105	12.719	12.719	0.000	97	114351	0.5000	0.4792	
131 sec-Butylbenzene	105	12.841	12.841	0.000	94	139394	0.5000	0.4739	
132 1,3-Dichlorobenzene	146	12.938	12.938	0.000	98	65793	0.5000	0.4733	
133 4-Isopropyltoluene	119	12.951	12.951	0.000	97	124395	0.5000	0.4729	
* 134 1,4-Dichlorobenzene-d4	152	12.993	12.993	0.000	94	980021	10.0	10.0	
135 1,4-Dichlorobenzene	146	13.011	13.012	-0.001	96	68359	0.5000	0.4799	
136 1,2,3-Trimethylbenzene	120	13.024	13.024	0.000	97	53621	0.5000	0.4920	
137 Benzyl chloride	126	13.097	13.091	0.006	98	5691	0.5000	0.5328	
138 p-Diethylbenzene	119	13.152	13.152	0.000	92	73075	0.5000	0.4687	
139 n-Butylbenzene	92	13.237	13.243	-0.006	96	64112	0.5000	0.4788	
140 1,2-Dichlorobenzene	146	13.274	13.274	0.000	99	64215	0.5000	0.4879	
142 1,2-Dibromo-3-Chloropropane	155	13.816	13.816	0.000	85	3462	0.5000	0.4397	
143 1,3,5-Trichlorobenzene	180	13.938	13.938	0.000	97	53978	0.5000	0.4793	
144 1,2,4-Trichlorobenzene	180	14.365	14.365	0.000	94	47249	0.5000	0.4656	
145 Hexachlorobutadiene	225	14.444	14.444	0.000	95	25421	0.5000	0.4857	
146 Naphthalene	128	14.542	14.542	0.000	97	82065	0.5000	0.4587	
147 1,2,3-Trichlorobenzene	180	14.688	14.688	0.000	95	41431	0.5000	0.4685	
148 2-Methylnaphthalene	142	15.304	15.304	0.000	92	44036	0.5000	0.4390	
160 Pentane	43	2.959	2.965	-0.006	97	34875	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

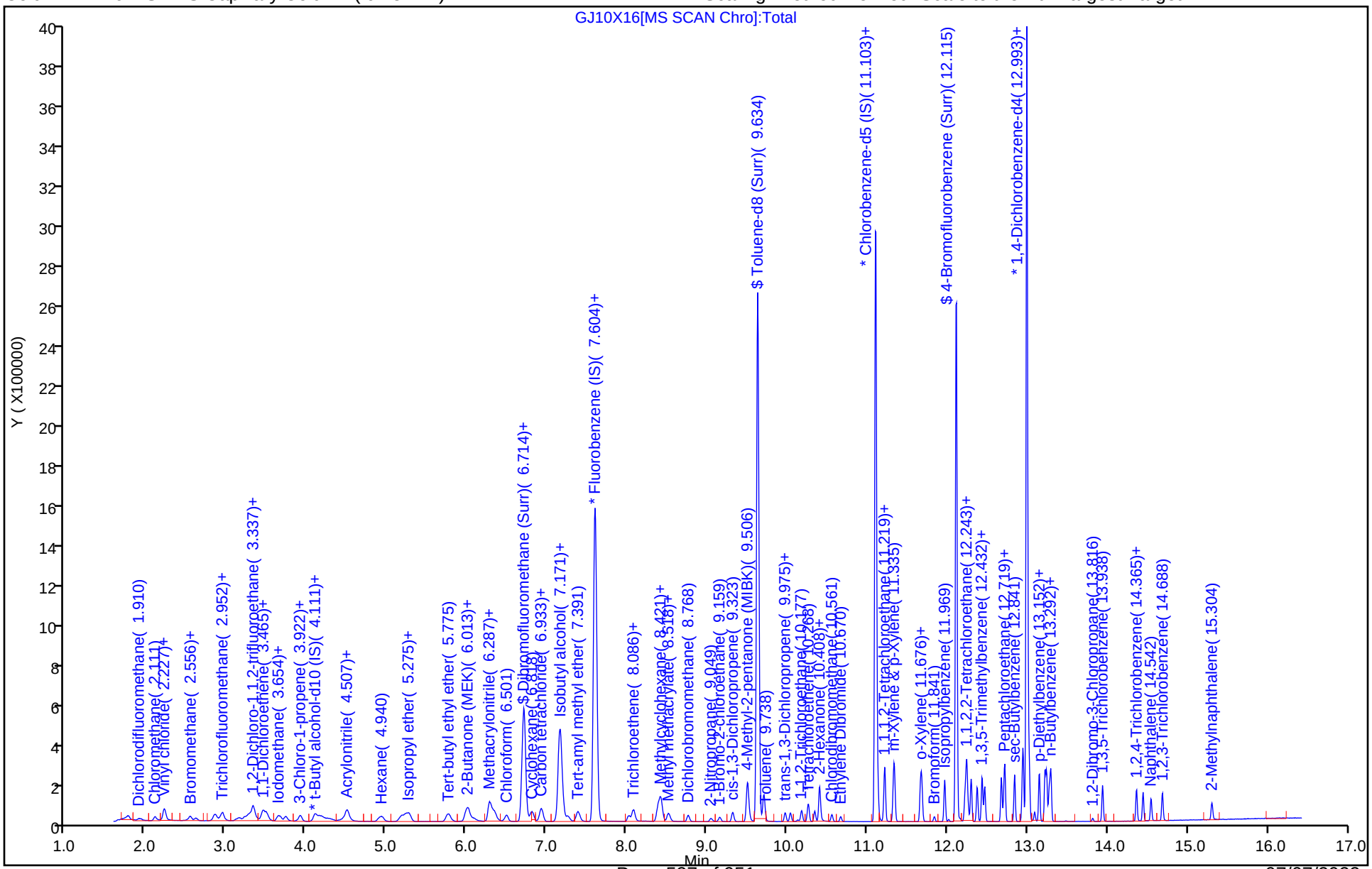
MSV_LL_#1_826_00032	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00059	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00036	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00028	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 11-Jan-2022 18:50:21 Chrom Revision: 2.3 03-Jan-2022 17:03:12

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X16.D				
Injection Date:	10-Jan-2022 23:23:30	Instrument ID:	16334	Operator ID:	kas02648
Lims ID:	IC std2			Worklist Smp#:	16
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

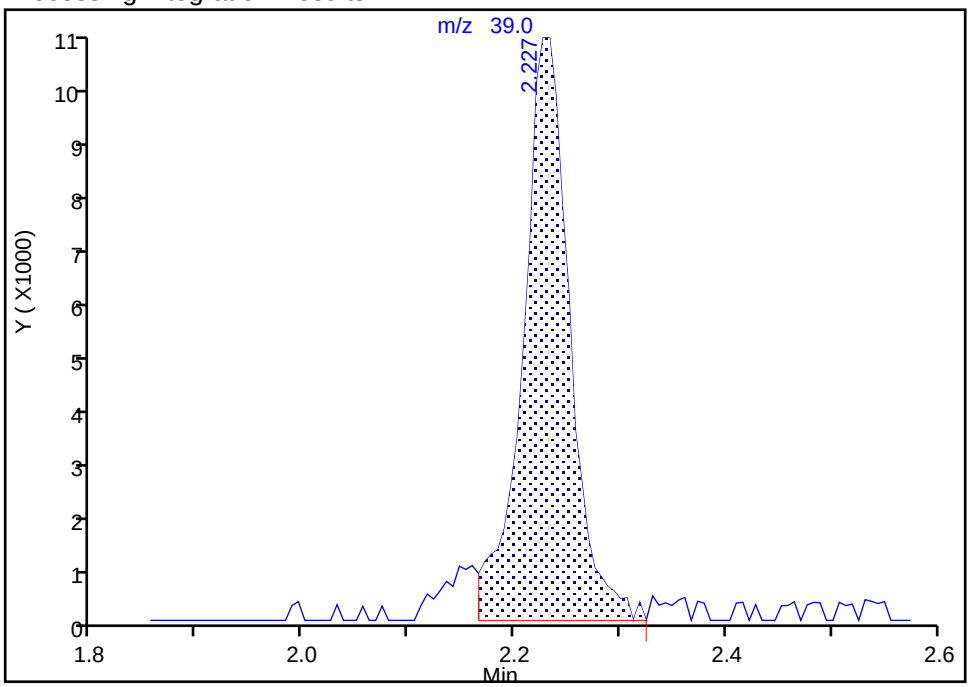
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X16.D				
Injection Date:	10-Jan-2022 23:23:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

7 Butadiene, CAS: 106-99-0

Signal: 1

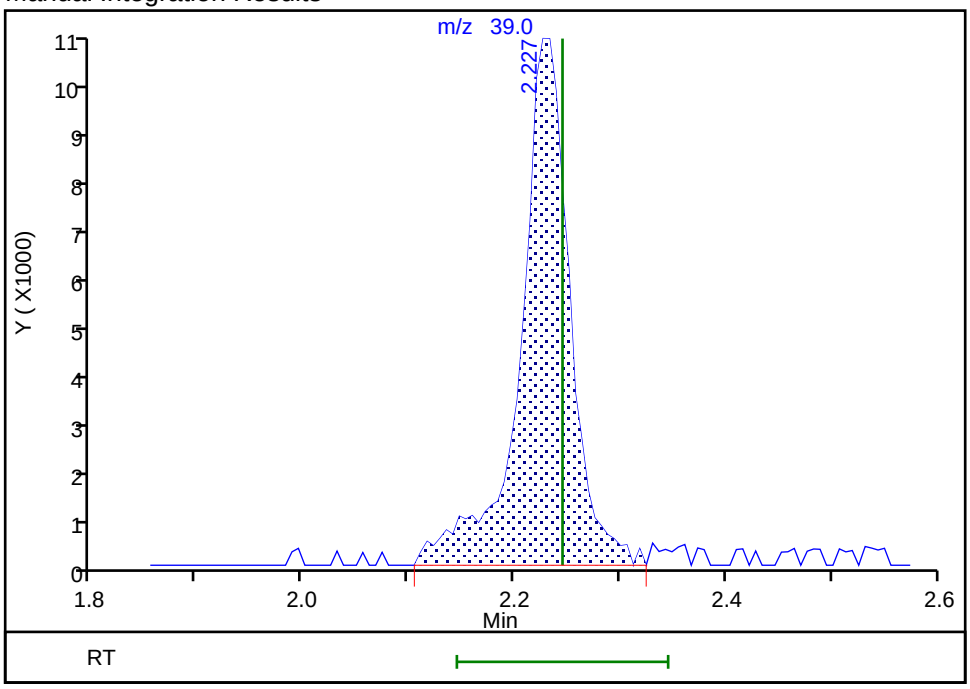
Processing Integration Results

RT: 2.23
Area: 31962
Amount: 0.485013
Amount Units: ug/l



Manual Integration Results

RT: 2.23
Area: 34075
Amount: 0.499107
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:14:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

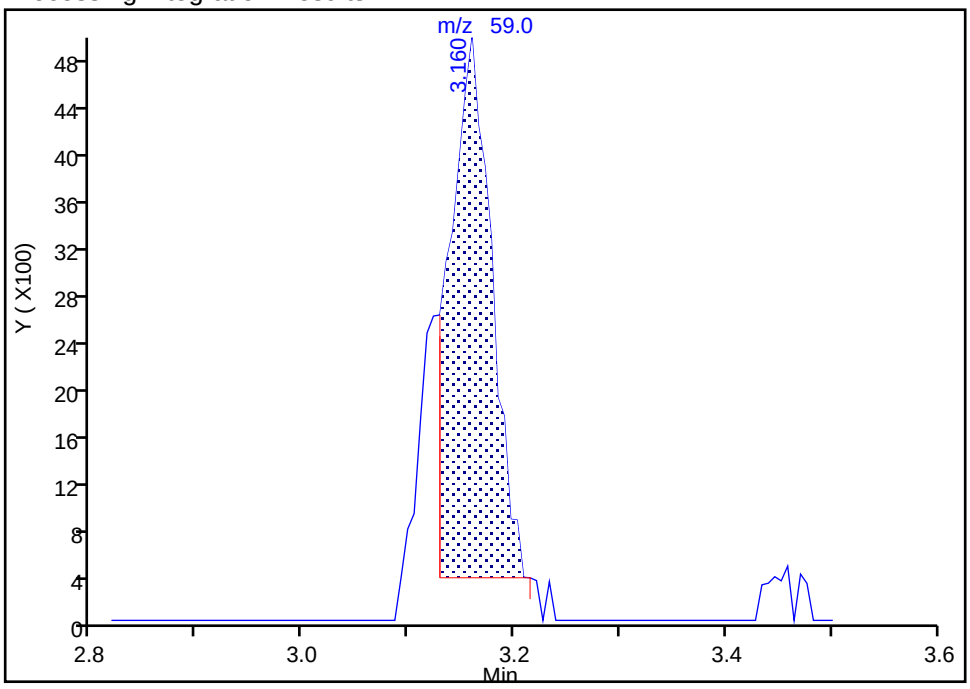
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X16.D				
Injection Date:	10-Jan-2022 23:23:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

15 Ethyl ether, CAS: 60-29-7

Signal: 1

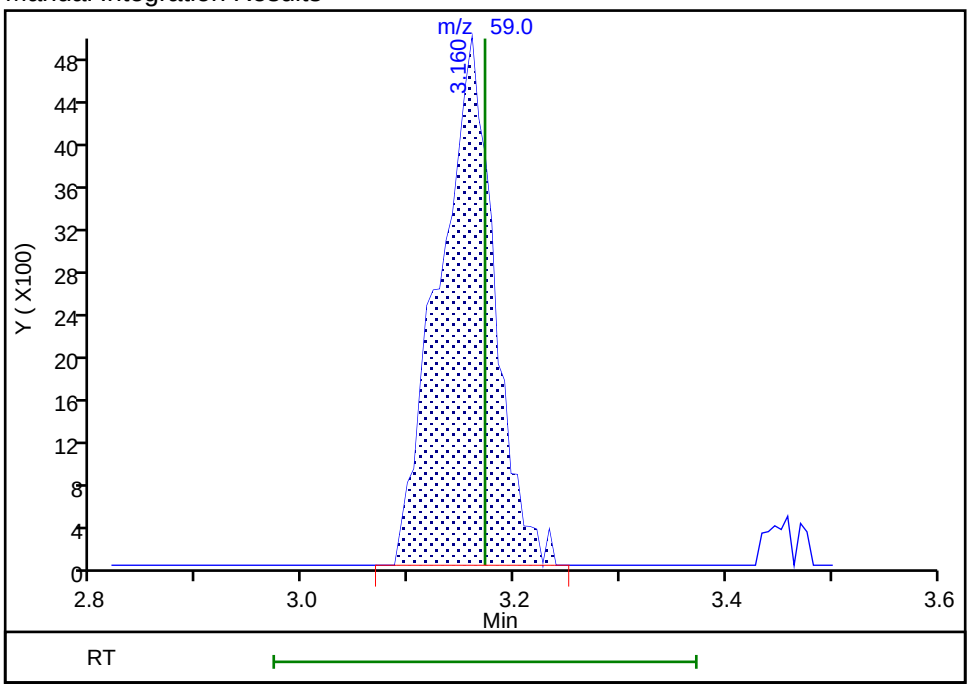
Processing Integration Results

RT: 3.16
Area: 12522
Amount: 0.350147
Amount Units: ug/l



Manual Integration Results

RT: 3.16
Area: 17968
Amount: 0.463694
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:14:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

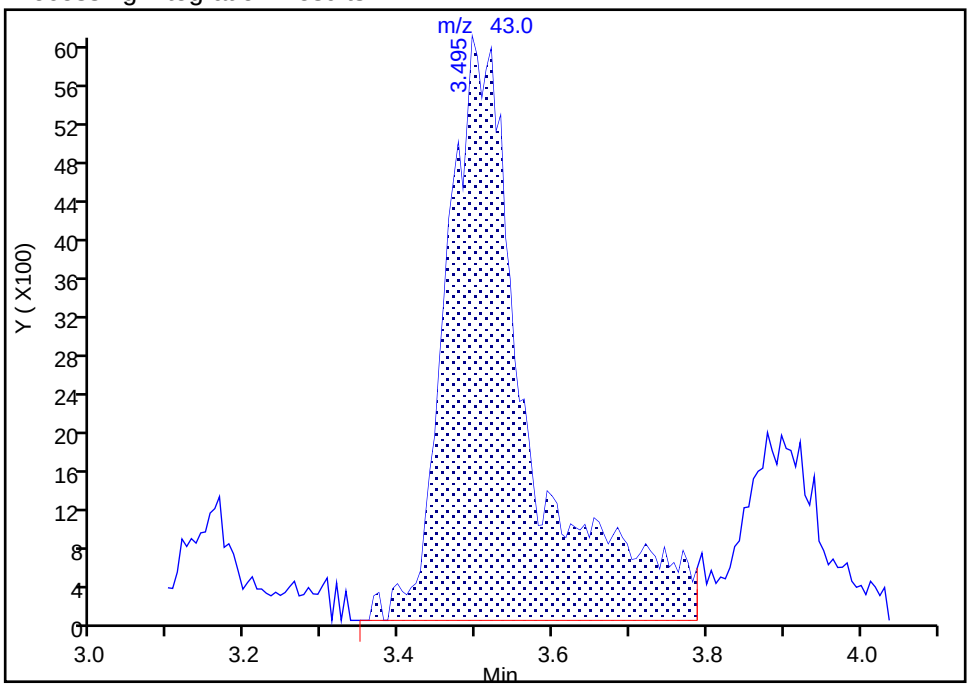
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X16.D				
Injection Date:	10-Jan-2022 23:23:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Acetone, CAS: 67-64-1

Signal: 1

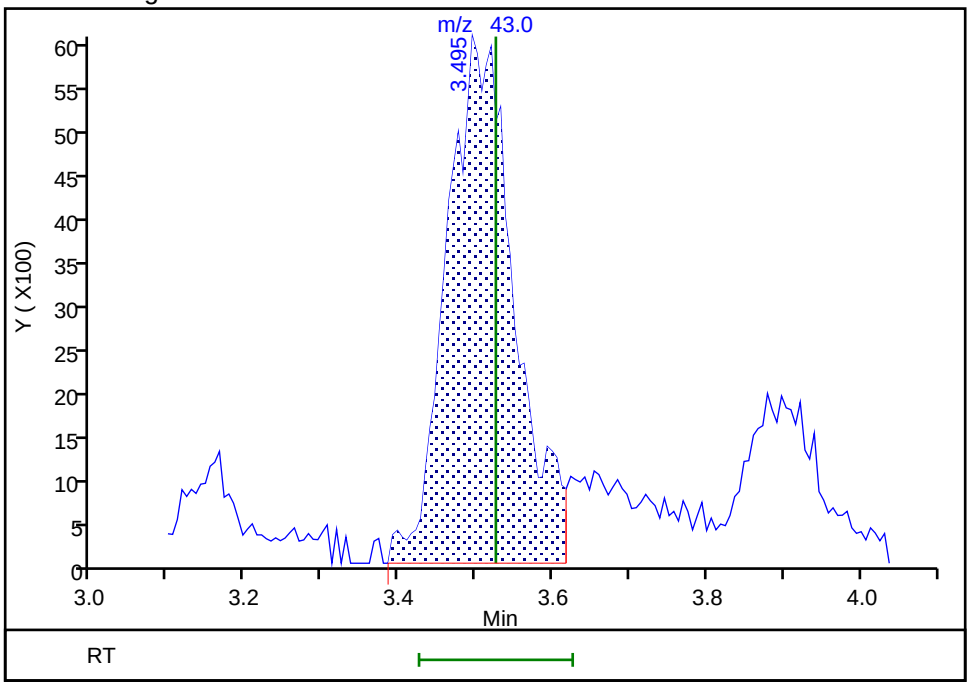
Processing Integration Results

RT: 3.50
Area: 45345
Amount: 5.441162
Amount Units: ug/l



Manual Integration Results

RT: 3.50
Area: 37302
Amount: 4.679491
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:14:53
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

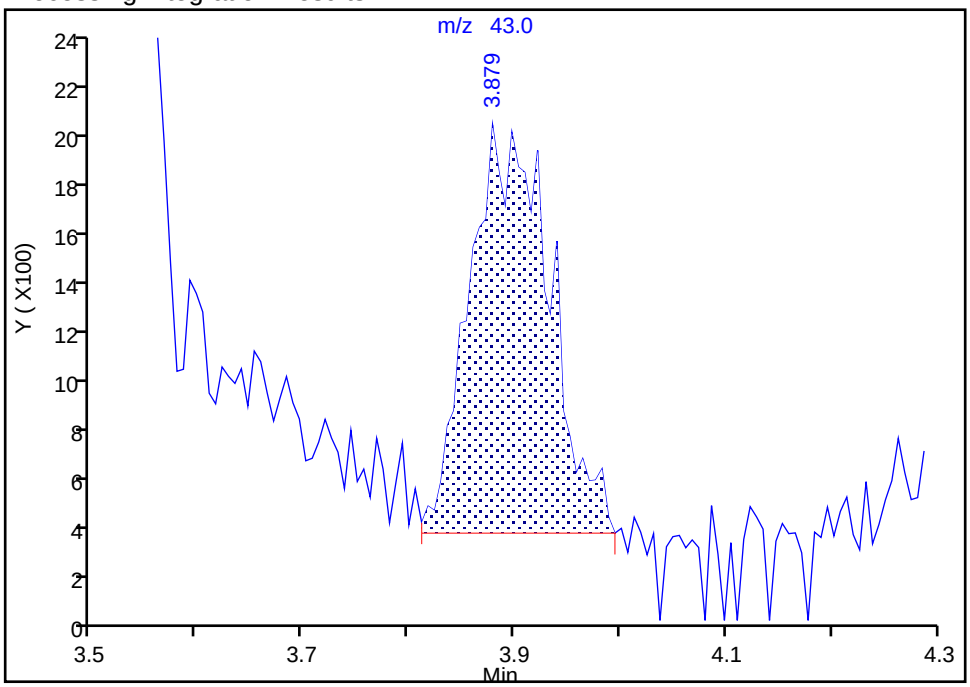
Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X16.D
Injection Date: 10-Jan-2022 23:23:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

27 Methyl acetate, CAS: 79-20-9

Signal: 1

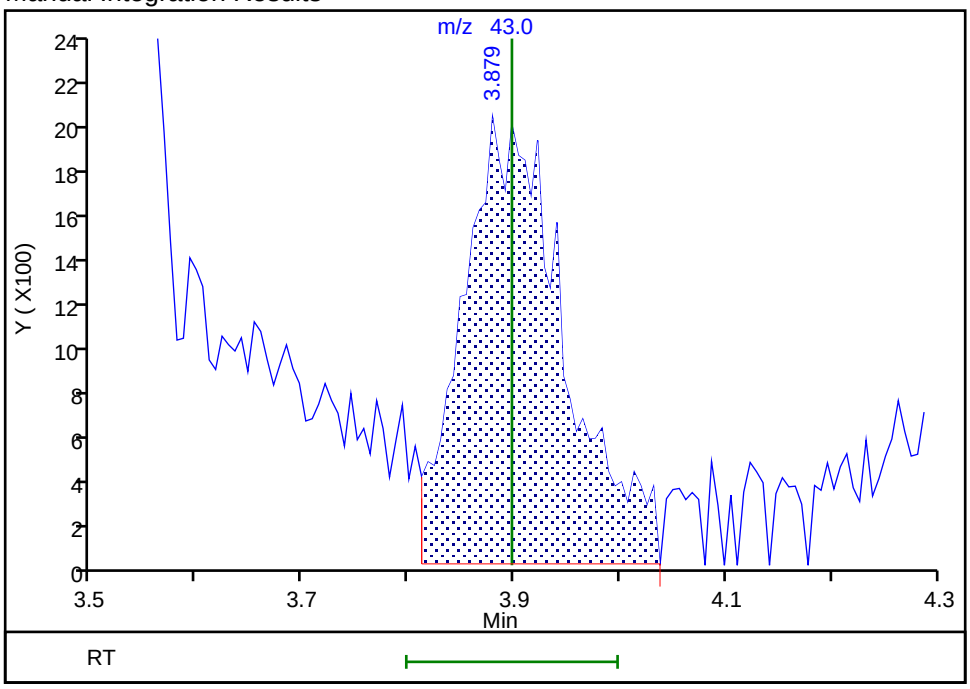
Processing Integration Results

RT: 3.88
Area: 8532
Amount: 0.390250
Amount Units: ug/l



Manual Integration Results

RT: 3.88
Area: 13103
Amount: 0.558316
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:15:15
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

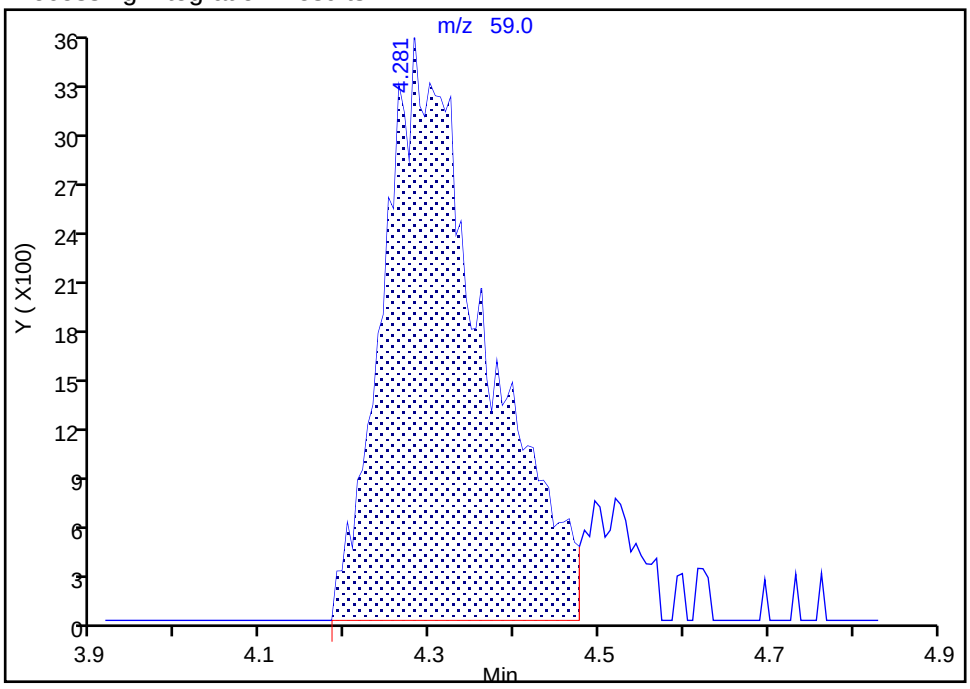
Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X16.D
Injection Date: 10-Jan-2022 23:23:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

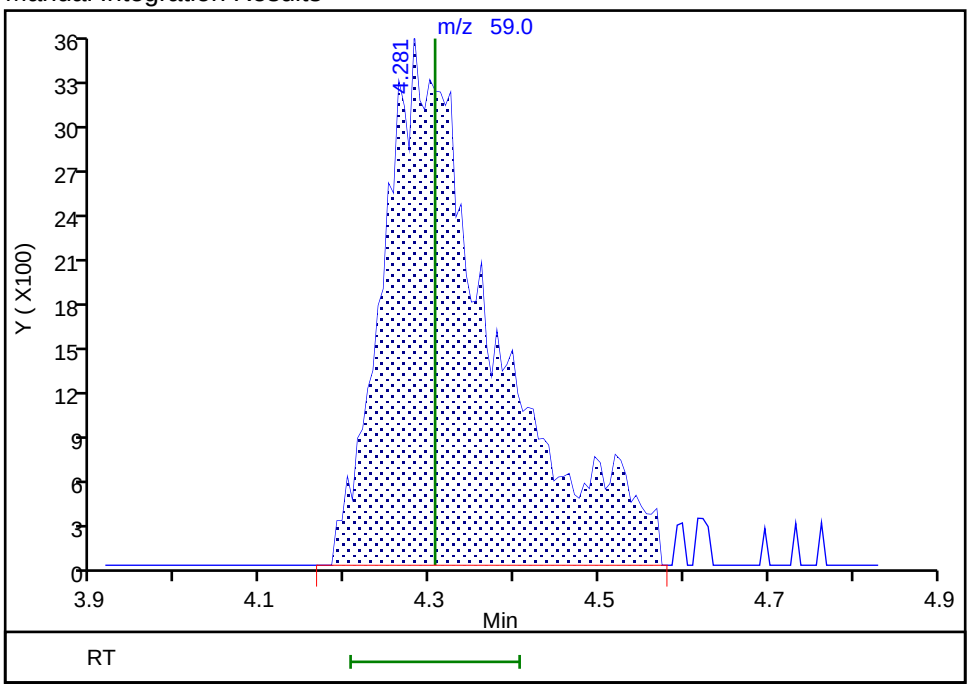
Processing Integration Results

RT: 4.28
Area: 29610
Amount: 9.636339
Amount Units: ug/l



Manual Integration Results

RT: 4.28
Area: 32543
Amount: 10.365512
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:15:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

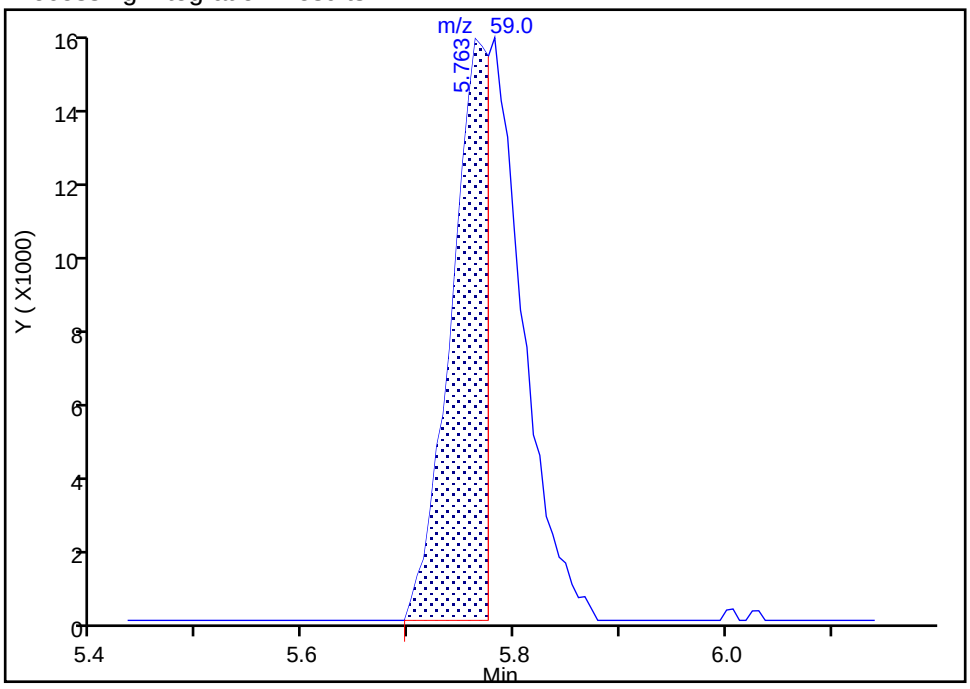
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X16.D				
Injection Date:	10-Jan-2022 23:23:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

40 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

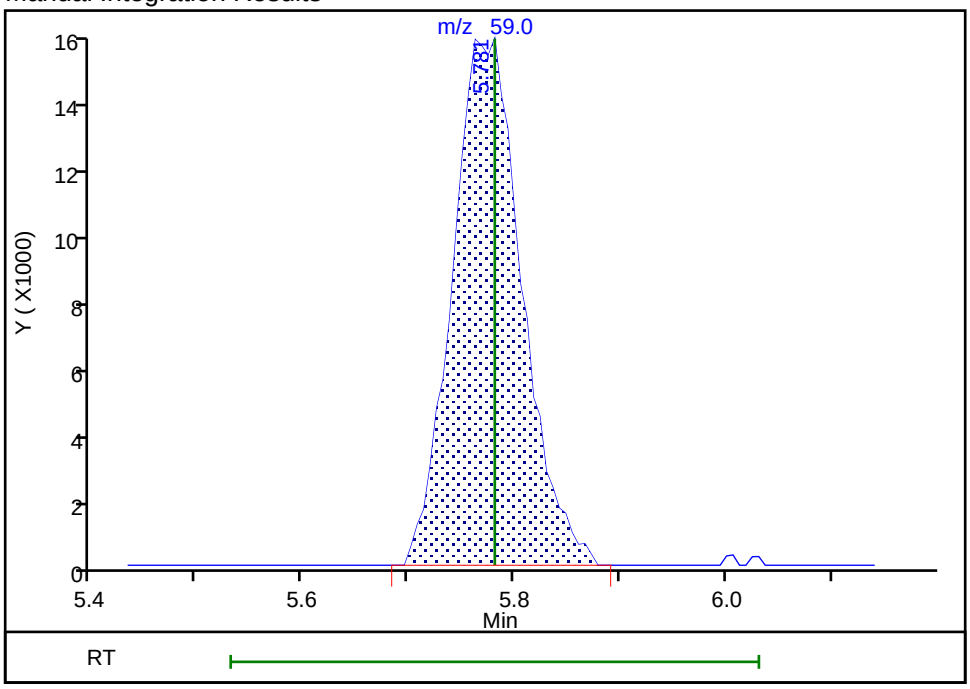
Processing Integration Results

RT: 5.76
Area: 39694
Amount: 0.358210
Amount Units: ug/l



Manual Integration Results

RT: 5.78
Area: 73012
Amount: 0.481443
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:15:30

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

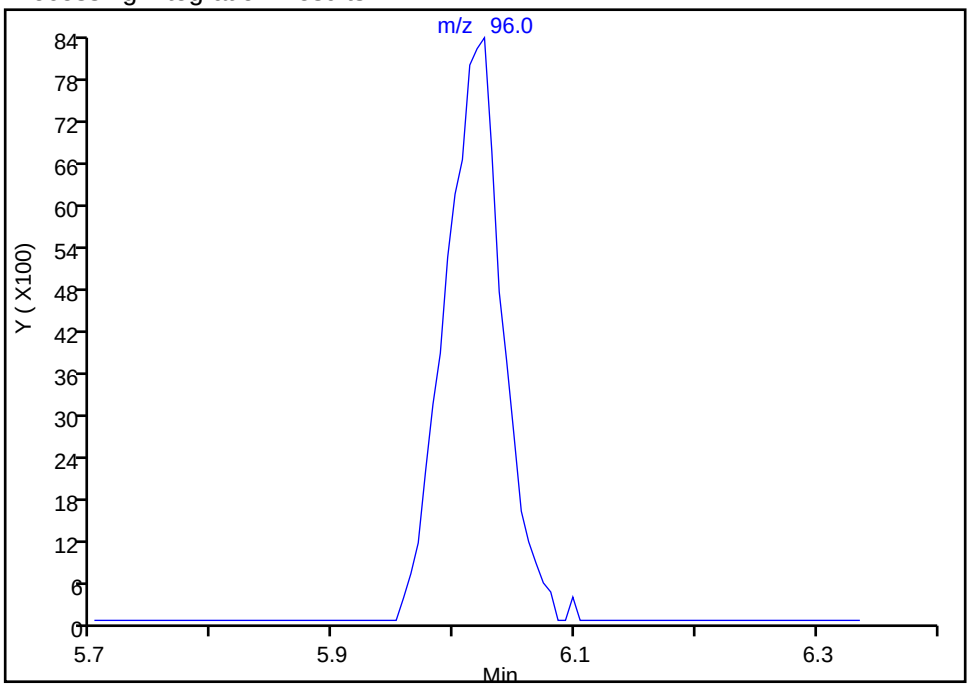
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X16.D				
Injection Date:	10-Jan-2022 23:23:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

Signal: 1

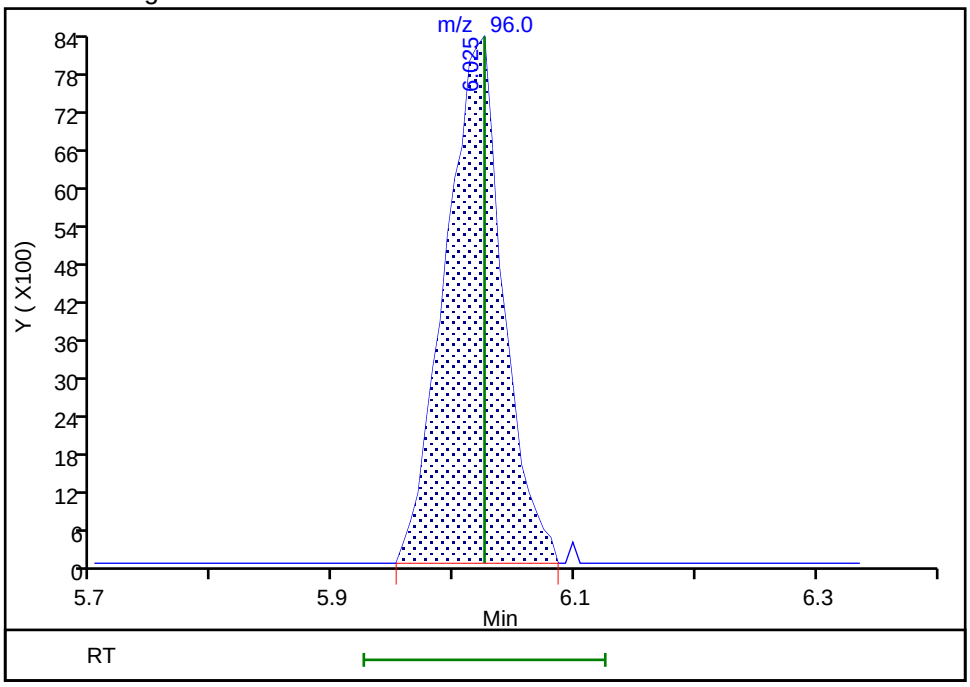
Not Detected
Expected RT: 6.03

Processing Integration Results



Manual Integration Results

RT: 6.03
Area: 27880
Amount: 0.481483
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:15:34
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

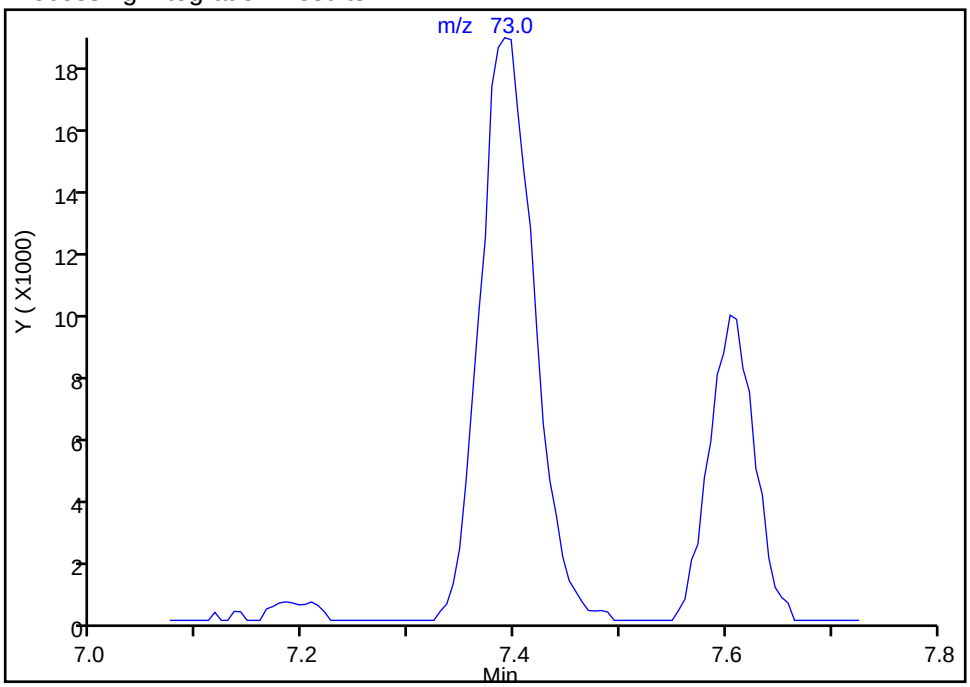
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X16.D				
Injection Date:	10-Jan-2022 23:23:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

63 Tert-amyl methyl ether, CAS: 994-05-8

Signal: 1

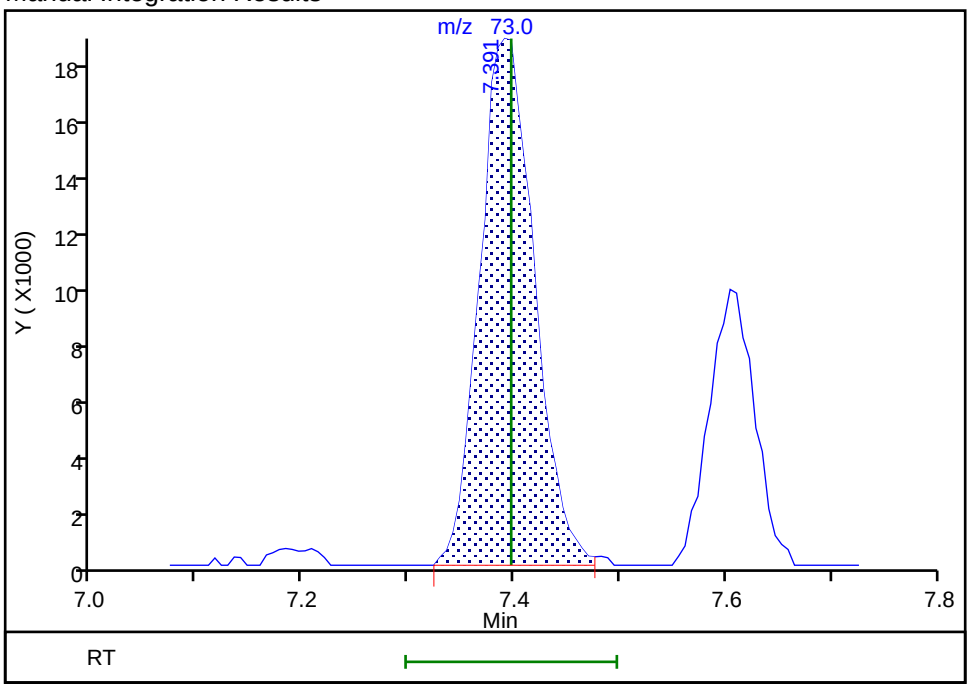
Processing Integration Results

Not Detected
Expected RT: 7.40



Manual Integration Results

RT: 7.39
Area: 67496
Amount: 0.482771
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:15:45
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

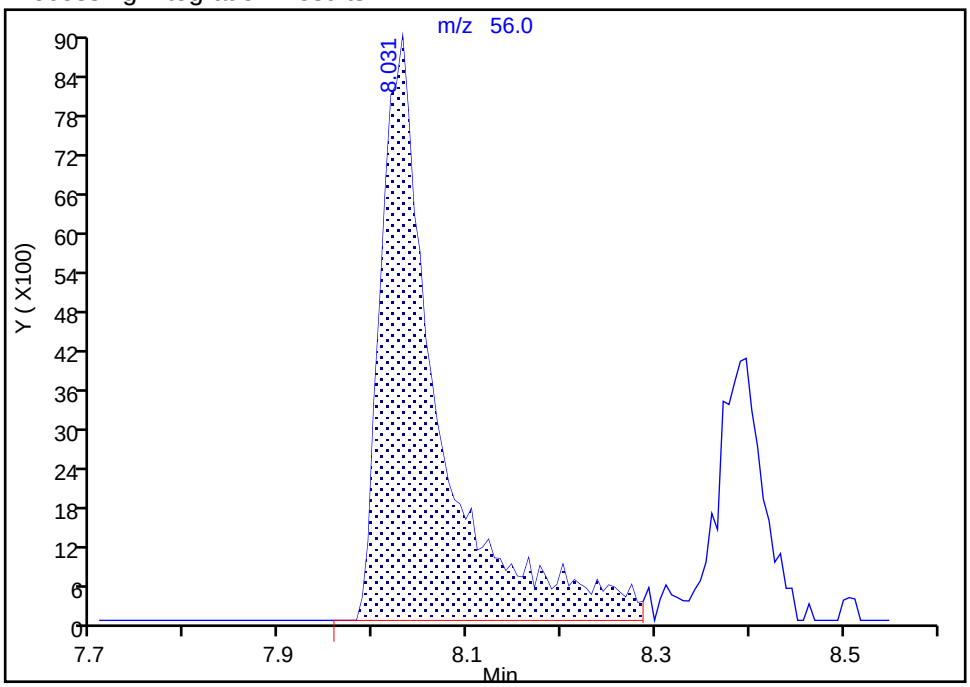
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X16.D				
Injection Date:	10-Jan-2022 23:23:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

67 n-Butanol, CAS: 71-36-3

Signal: 1

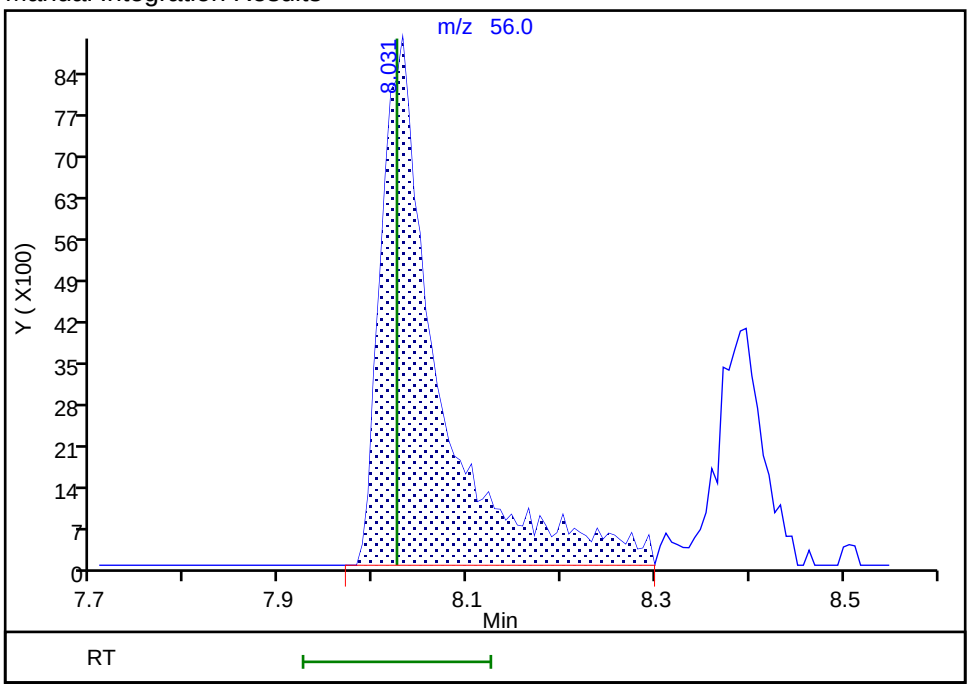
Processing Integration Results

RT: 8.03
Area: 37856
Amount: 39.502753
Amount Units: ug/l



Manual Integration Results

RT: 8.03
Area: 38039
Amount: 36.946494
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:25:10

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

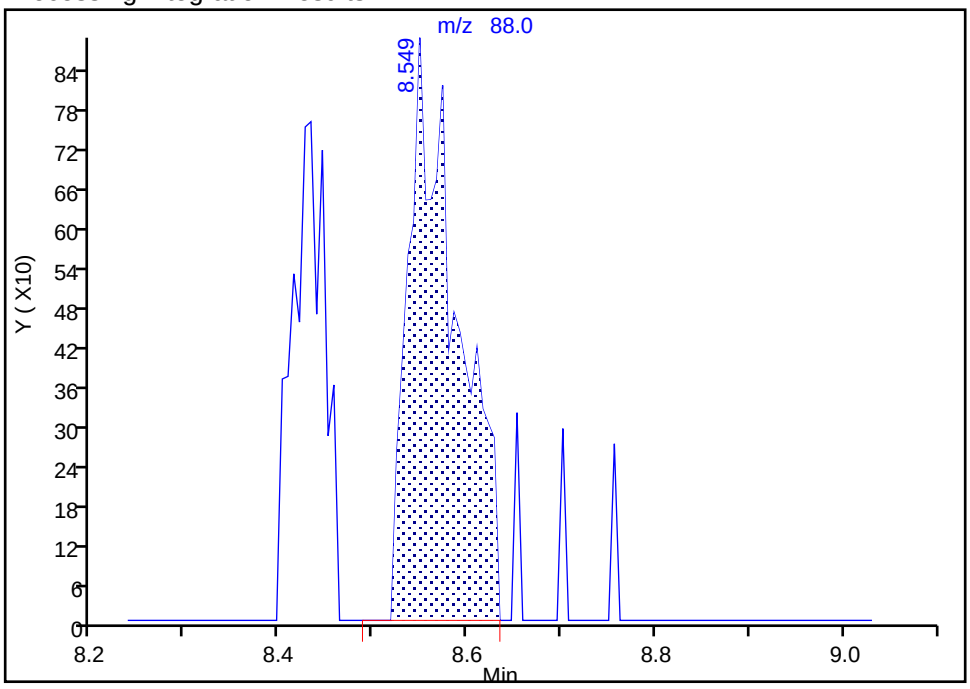
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X16.D				
Injection Date:	10-Jan-2022 23:23:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

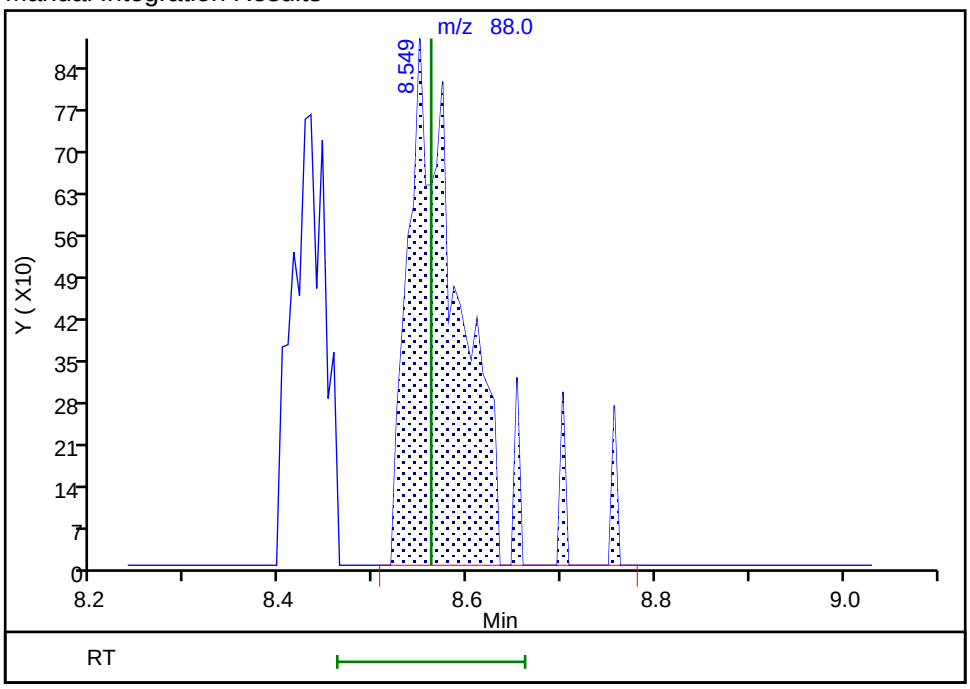
Processing Integration Results

RT: 8.55
Area: 3205
Amount: 16.292213
Amount Units: ug/l



Manual Integration Results

RT: 8.55
Area: 3524
Amount: 16.146291
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:15:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D
Lims ID: IC std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 10-Jan-2022 23:46:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0048068-017
Misc. Info.: IC STD1
Operator ID: kas02648 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 11-Jan-2022 18:50:26 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1654

First Level Reviewer: campbellme Date: 11-Jan-2022 18:24:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.916	1.928	-0.012	98	11323	0.2000	0.2010	
5 Chloromethane	50	2.111	2.123	-0.012	98	14060	0.2000	0.2184	
8 Vinyl chloride	62	2.221	2.239	-0.018	90	13340	0.2000	0.2002	
7 Butadiene	39	2.233	2.245	-0.012	88	17318	0.2000	0.2517	M
9 Bromomethane	94	2.556	2.562	-0.006	92	10579	0.2000	0.2158	
10 Chloroethane	64	2.629	2.636	-0.007	98	8755	0.2000	0.2209	
12 Dichlorofluoromethane	67	2.861	2.873	-0.012	95	19765	0.2000	0.2144	
13 Trichlorofluoromethane	101	2.934	2.940	-0.006	92	18190	0.2000	0.2036	
15 Ethyl ether	59	3.160	3.172	-0.012	95	7557	0.2000	0.1935	M
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.251	3.251	0.000	41	14078	0.2000	0.2217	
18 Acrolein	56	3.343	3.349	-0.006	98	71108	10.0	10.1	
19 1,1-Dichloroethene	96	3.464	3.471	-0.007	97	9360	0.2000	0.1941	
20 112TCTFE	101	3.501	3.513	-0.012	88	8496	0.2000	0.1763	
21 Acetone	43	3.525	3.526	-0.001	38	17120	2.00	2.20	M
23 Iodomethane	142	3.647	3.660	-0.013	99	16198	0.2000	0.1932	
24 Ethyl bromide	108	3.678	3.690	-0.012	94	7606	0.1999	0.1854	
22 Isopropyl alcohol	45	3.745	3.757	-0.012	27	5920	4.00	3.66	
25 Carbon disulfide	76	3.745	3.757	-0.012	99	21733	0.2000	0.1784	M
27 Methyl acetate	43	3.909	3.897	0.012	19	5261	0.2000	0.2295	M
28 3-Chloro-1-propene	41	3.934	3.940	-0.006	91	13181	0.2000	0.1920	
29 Methylene Chloride	84	4.098	4.117	-0.019	87	10044	0.2000	0.1931	
* 30 t-Butyl alcohol-d10 (IS)	65	4.184	4.196	-0.012	70	169370	50.0	50.0	
31 2-Methyl-2-propanol	59	4.300	4.306	-0.006	94	10950	4.00	3.57	M
32 Acrylonitrile	53	4.464	4.464	0.000	18	4095	0.5000	0.3952	
33 Methyl tert-butyl ether	73	4.513	4.513	0.000	74	25515	0.2000	0.1934	
34 trans-1,2-Dichloroethene	96	4.513	4.519	-0.006	95	10269	0.2000	0.1925	
35 Hexane	57	4.952	4.946	0.006	90	12583	0.2000	0.1846	
37 1,1-Dichloroethane	63	5.184	5.184	0.000	94	17453	0.2000	0.1931	
38 Isopropyl ether	45	5.245	5.251	-0.006	94	29348	0.2000	0.1876	
39 2-Chloro-1,3-butadiene	53	5.281	5.294	-0.013	92	13827	0.2000	0.1902	Ma

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.763	5.781	-0.018	97	28905	0.2000	0.1891	
41 2-Butanone (MEK)	43	5.994	6.001	-0.007	100	29175	2.00	1.91	
42 cis-1,2-Dichloroethene	96	6.019	6.025	-0.006	83	11450	0.2000	0.1962	
43 2,2-Dichloropropane	77	6.019	6.037	-0.018	64	11903	0.2000	0.1757	
45 Propionitrile	54	6.098	6.098	0.000	79	13603	4.00	3.40	
S 46 1,2-Dichloroethene, Total	100				0			0.3887	
48 Methacrylonitrile	67	6.293	6.293	0.000	89	27044	2.00	1.83	M
49 Chlorobromomethane	128	6.342	6.354	-0.012	75	4719	0.2000	0.1798	
50 Tetrahydrofuran	71	6.366	6.354	0.012	81	4075	1.00	0.9445	
51 Chloroform	83	6.507	6.507	0.000	91	17970	0.2000	0.1956	
$ 52 Dibromofluoromethane (Surr)	113	6.714	6.720	-0.006	94	551538	10.0	9.89	
53 1,1,1-Trichloroethane	97	6.726	6.732	-0.006	36	14481	0.2000	0.1844	
54 Cyclohexane	56	6.817	6.824	-0.007	90	14898	0.2000	0.1753	
56 Carbon tetrachloride	117	6.933	6.933	0.000	85	11838	0.2000	0.1746	
57 1,1-Dichloropropene	75	6.939	6.940	-0.001	92	13769	0.2000	0.1919	
58 Isobutyl alcohol	41	7.141	7.141	0.000	91	10724	10.0	9.67	M
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.165	7.171	-0.006	89	117353	10.0	9.96	
60 Benzene	78	7.195	7.202	-0.007	95	41534	0.2000	0.1924	
61 1,2-Dichloroethane	62	7.269	7.269	0.000	96	11951	0.2000	0.2042	
63 Tert-amyl methyl ether	73	7.391	7.397	-0.006	97	26081	0.2000	0.1851	
* 64 Fluorobenzene (IS)	96	7.604	7.610	-0.006	99	2322487	10.0	10.0	
65 n-Heptane	43	7.610	7.622	-0.012	37	13930	0.2000	0.1968	
67 n-Butanol	56	8.037	8.025	0.012	93	13834	17.5	13.8	M
68 Trichloroethene	95	8.079	8.086	-0.007	96	11554	0.2000	0.1996	
69 Methylcyclohexane	83	8.384	8.397	-0.013	71	17469	0.2000	0.1831	M
70 1,2-Dichloropropane	63	8.421	8.427	-0.006	77	10142	0.2000	0.1861	
71 2-ethoxy-2-methyl butane	87	8.439	8.433	0.006	92	14162	0.2000	0.1778	
72 Methyl methacrylate	69	8.512	8.519	-0.006	87	4459	0.2000	0.1587	
74 Dibromomethane	93	8.531	8.531	0.000	89	5028	0.2000	0.1825	
73 1,4-Dioxane	88	8.585	8.561	0.024	52	784	10.0	3.68	Ma
76 Dichlorobromomethane	83	8.762	8.775	-0.013	98	10817	0.2000	0.1722	
77 2-Nitropropane	41	9.049	9.055	-0.006	95	5254	1.00	0.8364	
80 1-Bromo-2-chloroethane	63	9.165	9.165	0.000	96	10845	0.2000	0.1883	
81 cis-1,3-Dichloropropene	75	9.323	9.323	0.000	96	13424	0.2000	0.1701	
82 4-Methyl-2-pentanone (MIBK)	43	9.506	9.506	0.000	96	67753	2.00	1.83	
$ 83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	2241260	10.0	9.95	
84 Toluene	92	9.713	9.713	0.000	97	27348	0.2000	0.1951	
96 trans-1,3-Dichloropropene	75	9.975	9.976	-0.001	92	11039	0.2000	0.1705	
98 Ethyl methacrylate	69	10.042	10.043	-0.001	88	9460	0.2000	0.1627	
S 97 1,3-Dichloropropene, Total	100				0			0.3406	
99 1,1,2-Trichloroethane	97	10.183	10.183	0.000	89	7904	0.2000	0.1924	
100 Tetrachloroethene	166	10.268	10.268	0.000	97	12383	0.2000	0.1898	
101 1,3-Dichloropropane	76	10.347	10.347	0.000	87	13193	0.2000	0.1898	
102 2-Hexanone	43	10.408	10.408	0.000	95	46385	2.00	1.74	
104 Chlorodibromomethane	129	10.561	10.561	0.000	88	7772	0.2000	0.1681	
105 Ethylene Dibromide	107	10.670	10.671	-0.001	97	7056	0.2000	0.1781	
* 106 Chlorobenzene-d5 (IS)	117	11.109	11.109	0.000	84	1759713	10.0	10.0	
107 1-Chlorohexane	91	11.115	11.116	-0.001	78	16716	0.2000	0.2086	
108 Chlorobenzene	112	11.134	11.134	0.000	97	31728	0.2000	0.1948	
110 1,1,1,2-Tetrachloroethane	131	11.219	11.219	0.000	42	9566	0.2000	0.1769	
111 Ethylbenzene	91	11.219	11.219	0.000	98	52102	0.2000	0.1904	
S 109 Xylenes, Total	106				0			0.5534	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
112 m-Xylene & p-Xylene	106	11.341	11.335	0.006	99	38510	0.4000	0.3650	
113 o-Xylene	106	11.664	11.670	-0.006	96	19772	0.2000	0.1884	
114 Styrene	104	11.682	11.683	-0.001	95	31379	0.2000	0.1767	
115 Bromoform	173	11.835	11.841	-0.006	94	4116	0.2000	0.1493	
116 Isopropylbenzene	105	11.969	11.969	0.000	95	50180	0.2000	0.1859	
$ 119 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	92	843189	10.0	9.92	
120 1,1,2,2-Tetrachloroethane	83	12.219	12.219	0.000	91	10492	0.2000	0.1945	
121 Bromobenzene	156	12.231	12.231	0.000	91	13286	0.2000	0.1952	
122 trans-1,4-Dichloro-2-butene	53	12.243	12.243	0.000	92	19544	2.00	1.57	
123 1,2,3-Trichloropropane	110	12.268	12.262	0.006	77	2717	0.2000	0.1898	
124 N-Propylbenzene	91	12.298	12.298	0.000	99	62148	0.2000	0.1931	
125 2-Chlorotoluene	126	12.377	12.378	-0.001	97	12735	0.2000	0.1904	
126 1,3,5-Trimethylbenzene	105	12.432	12.438	-0.006	93	43847	0.2000	0.1908	
127 4-Chlorotoluene	126	12.469	12.469	0.000	96	13082	0.2000	0.1886	
128 tert-Butylbenzene	134	12.676	12.676	0.000	93	10504	0.2000	0.2028	
129 Pentachloroethane	167	12.713	12.707	0.006	74	6873	0.2000	0.1731	
130 1,2,4-Trimethylbenzene	105	12.719	12.719	0.000	97	44230	0.2000	0.1862	
131 sec-Butylbenzene	105	12.841	12.841	0.000	93	55462	0.2000	0.1894	
132 1,3-Dichlorobenzene	146	12.938	12.938	0.000	98	26815	0.2000	0.1938	
133 4-Isopropyltoluene	119	12.950	12.951	-0.001	97	49011	0.2000	0.1871	
* 134 1,4-Dichlorobenzene-d4	152	12.993	12.993	0.000	94	975773	10.0	10.0	
135 1,4-Dichlorobenzene	146	13.011	13.012	-0.001	93	28557	0.2000	0.2014	
136 1,2,3-Trimethylbenzene	120	13.024	13.024	0.000	97	21664	0.2000	0.1996	
137 Benzyl chloride	126	13.097	13.091	0.006	98	1763	0.2000	0.3348	
138 p-Diethylbenzene	119	13.152	13.152	0.000	91	28804	0.2000	0.1856	
139 n-Butylbenzene	92	13.243	13.243	0.000	98	25156	0.2000	0.1887	
140 1,2-Dichlorobenzene	146	13.274	13.274	0.000	99	25576	0.2000	0.1952	
142 1,2-Dibromo-3-Chloropropane	155	13.816	13.816	0.000	82	1149	0.2000	0.1466	
143 1,3,5-Trichlorobenzene	180	13.938	13.938	0.000	97	21371	0.2000	0.1906	
144 1,2,4-Trichlorobenzene	180	14.365	14.365	0.000	94	18916	0.2000	0.1872	
145 Hexachlorobutadiene	225	14.444	14.444	0.000	96	10324	0.2000	0.1981	
146 Naphthalene	128	14.542	14.542	0.000	97	32422	0.2000	0.1820	
147 1,2,3-Trichlorobenzene	180	14.688	14.688	0.000	96	16338	0.2000	0.1856	
148 2-Methylnaphthalene	142	15.304	15.304	0.000	93	17480	0.2000	0.1750	
160 Pentane	43	2.958	2.965	-0.007	97	15420	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00032	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00059	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00036	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00028	Amount Added:	1.00	Units: uL	Run Reagent

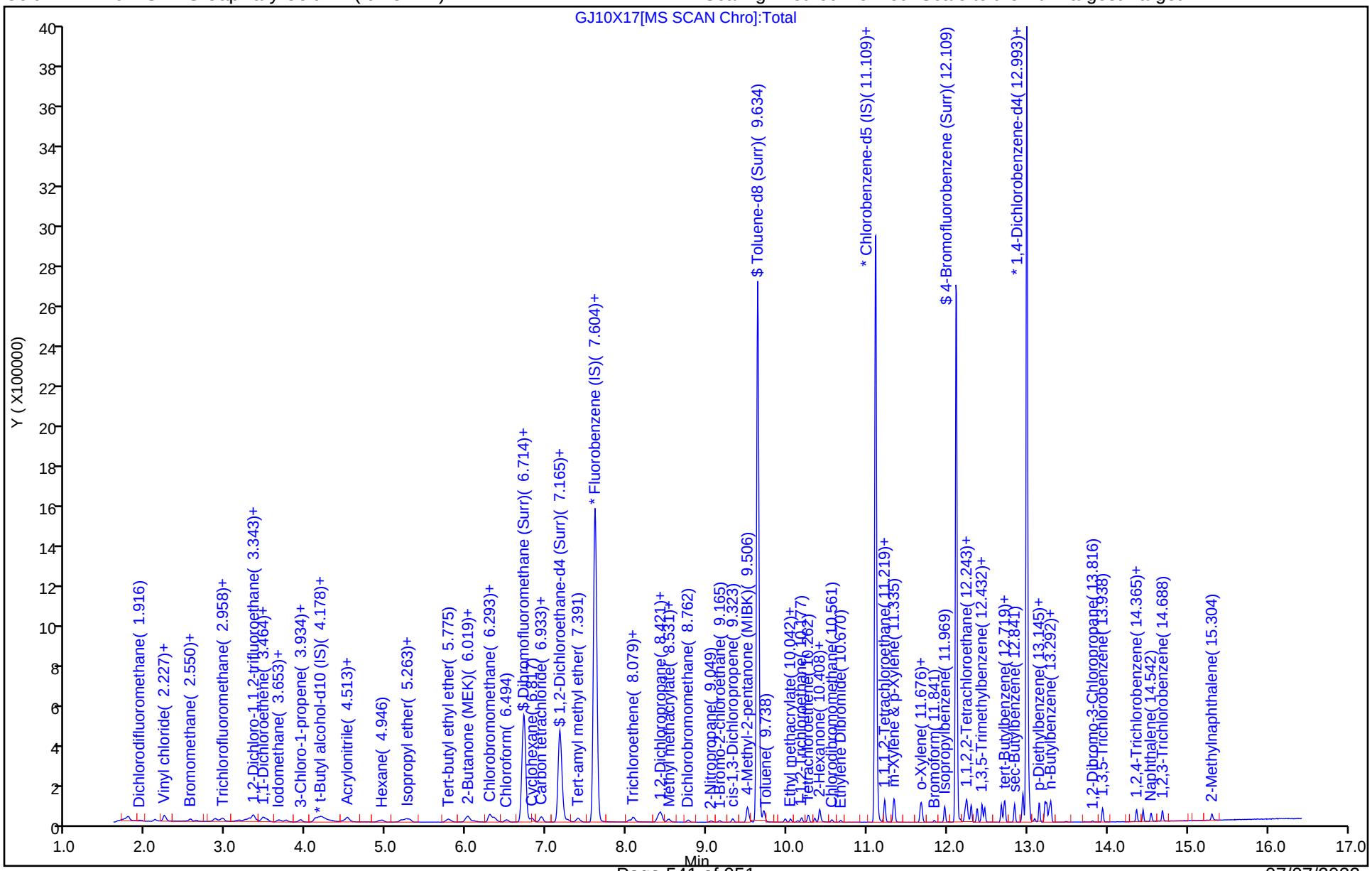
Report Date: 11-Jan-2022 18:50:26 Chrom Revision: 2.3 03-Jan-2022 17:03:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Injection Date:	10-Jan-2022 23:46:30	Instrument ID:	16334	Operator ID:	kas02648
Lims ID:	IC std1			Worklist Smp#:	17
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

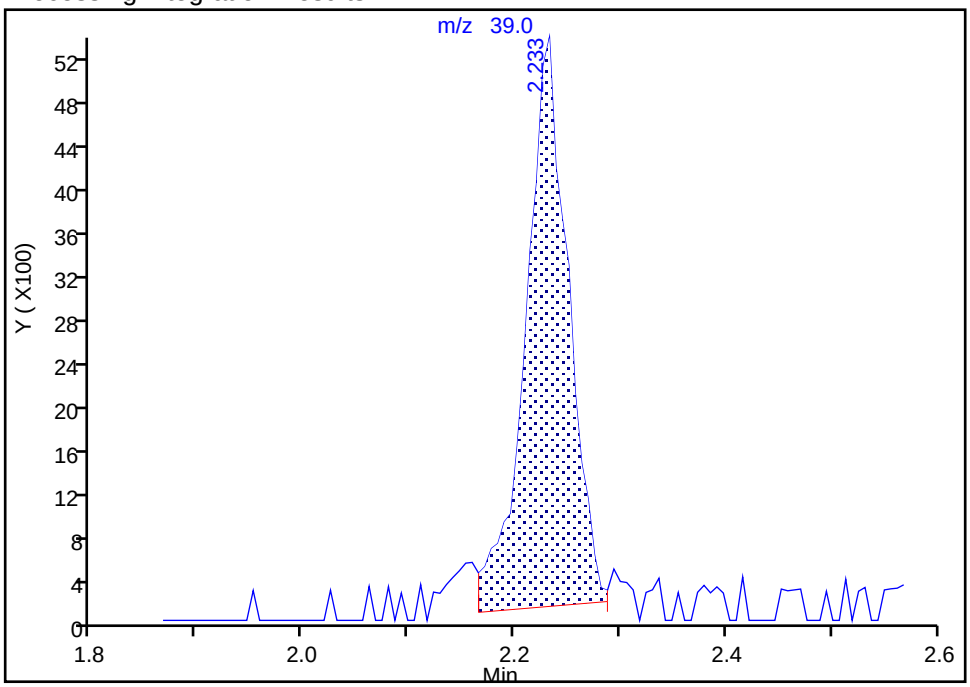
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Injection Date:	10-Jan-2022 23:46:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

7 Butadiene, CAS: 106-99-0

Signal: 1

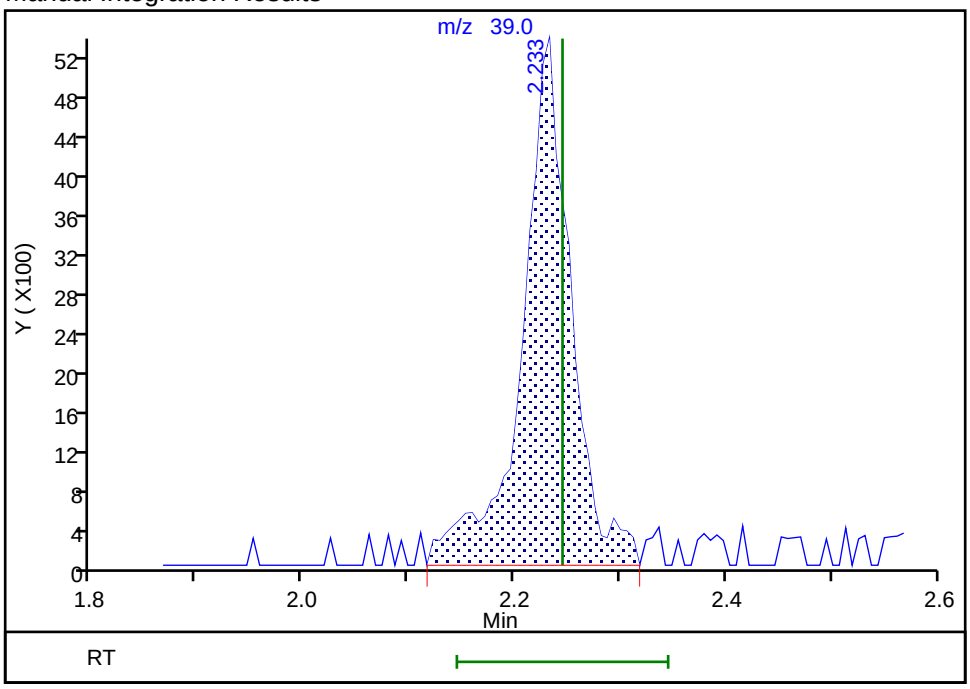
Processing Integration Results

RT: 2.23
Area: 14822
Amount: 0.221140
Amount Units: ug/l



Manual Integration Results

RT: 2.23
Area: 17318
Amount: 0.251685
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:16:34
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

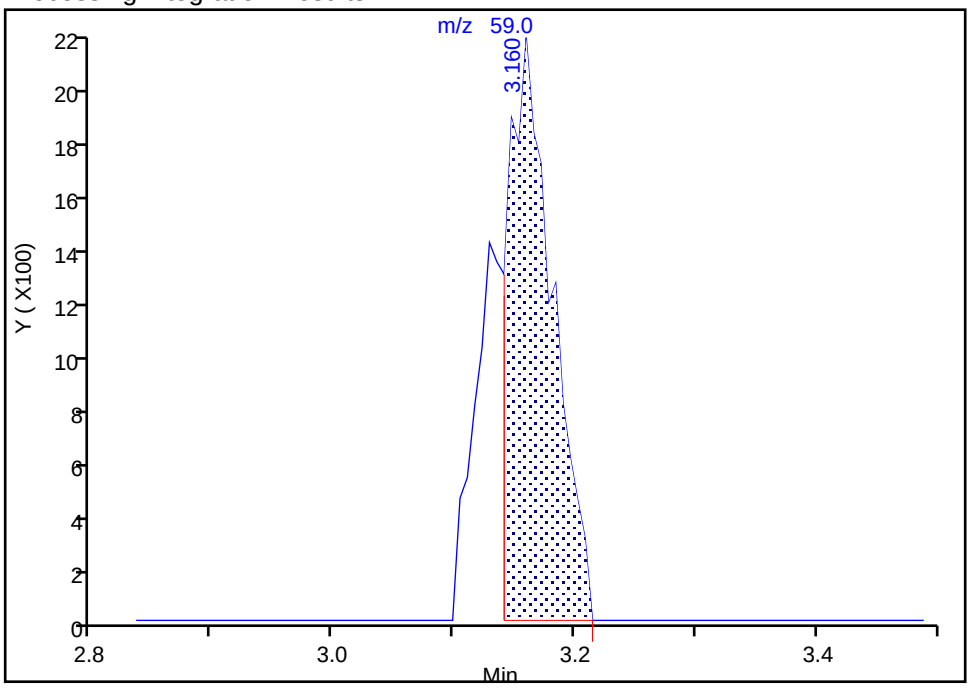
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Injection Date:	10-Jan-2022 23:46:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

15 Ethyl ether, CAS: 60-29-7

Signal: 1

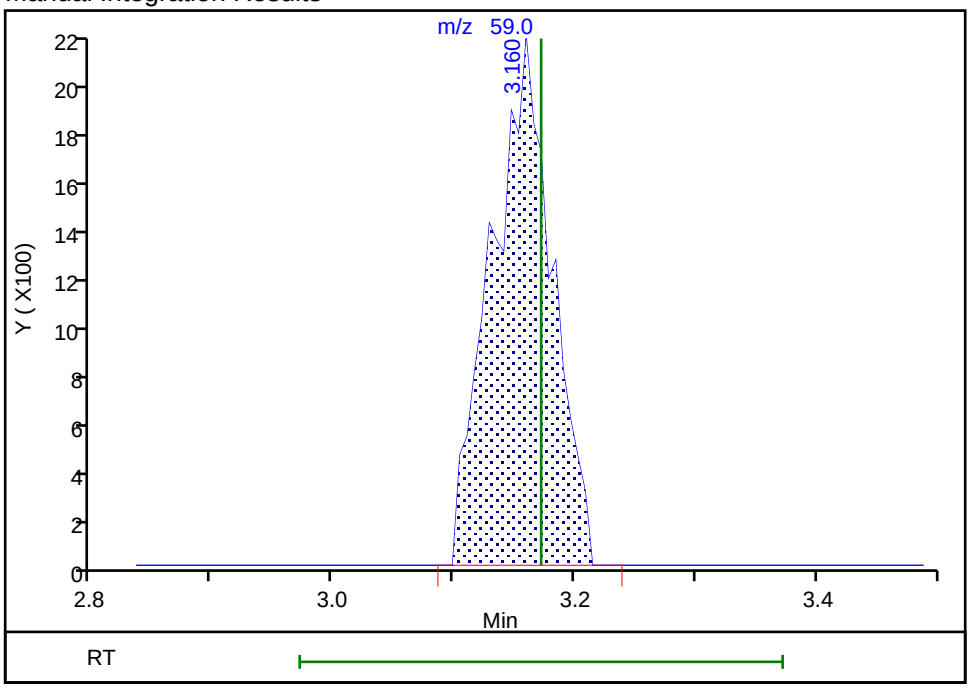
Processing Integration Results

RT: 3.16
Area: 5537
Amount: 0.147217
Amount Units: ug/l



Manual Integration Results

RT: 3.16
Area: 7557
Amount: 0.193501
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:16:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

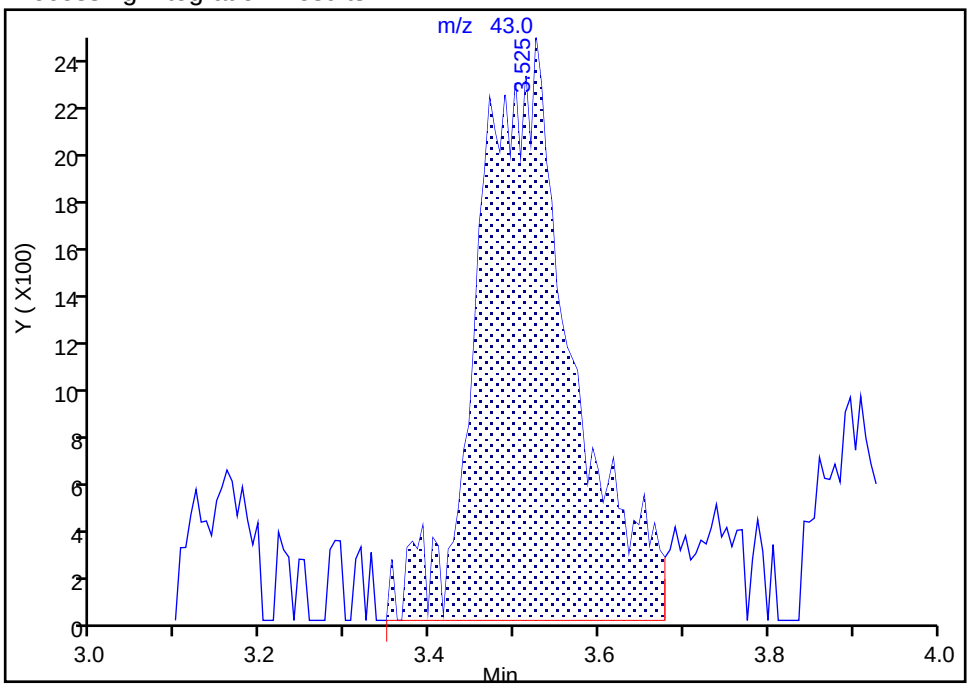
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Injection Date:	10-Jan-2022 23:46:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Acetone, CAS: 67-64-1

Signal: 1

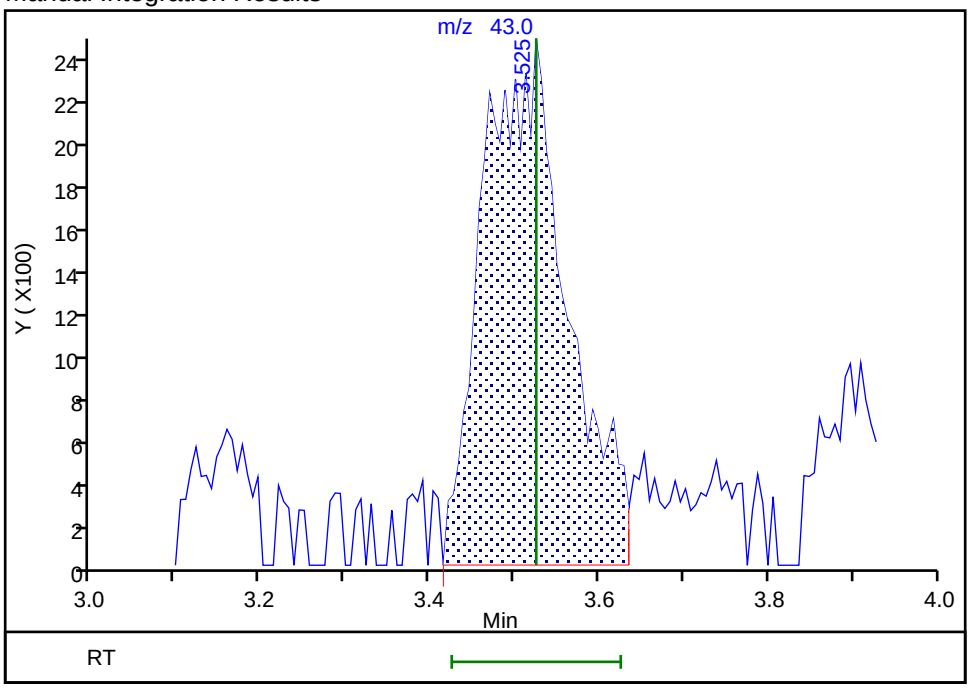
Processing Integration Results

RT: 3.53
Area: 18932
Amount: 2.391926
Amount Units: ug/l



Manual Integration Results

RT: 3.53
Area: 17120
Amount: 2.198950
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:16:58
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

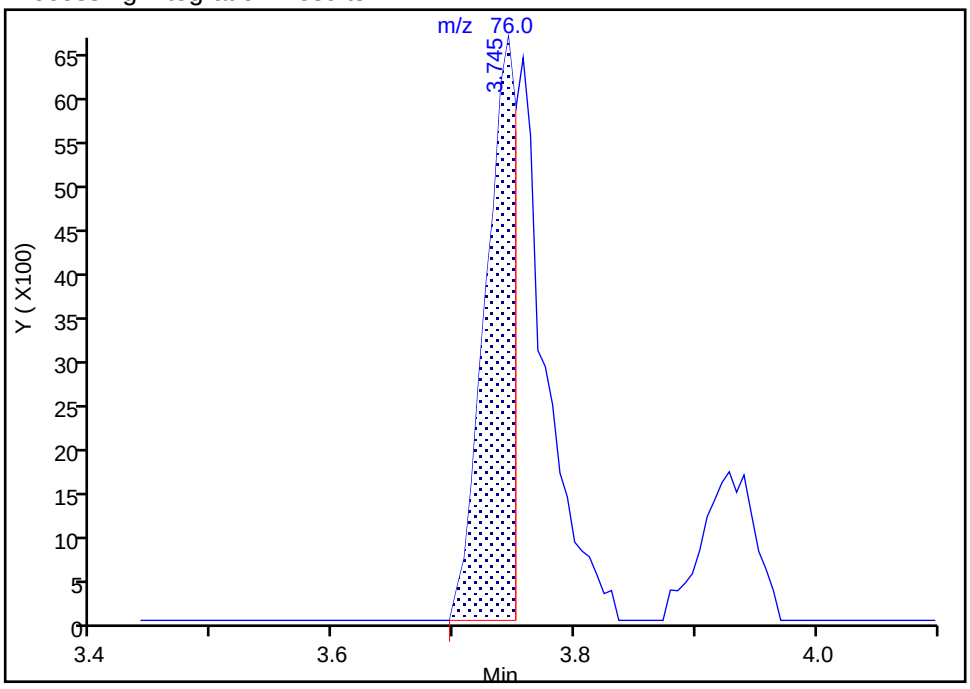
Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D
Injection Date: 10-Jan-2022 23:46:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

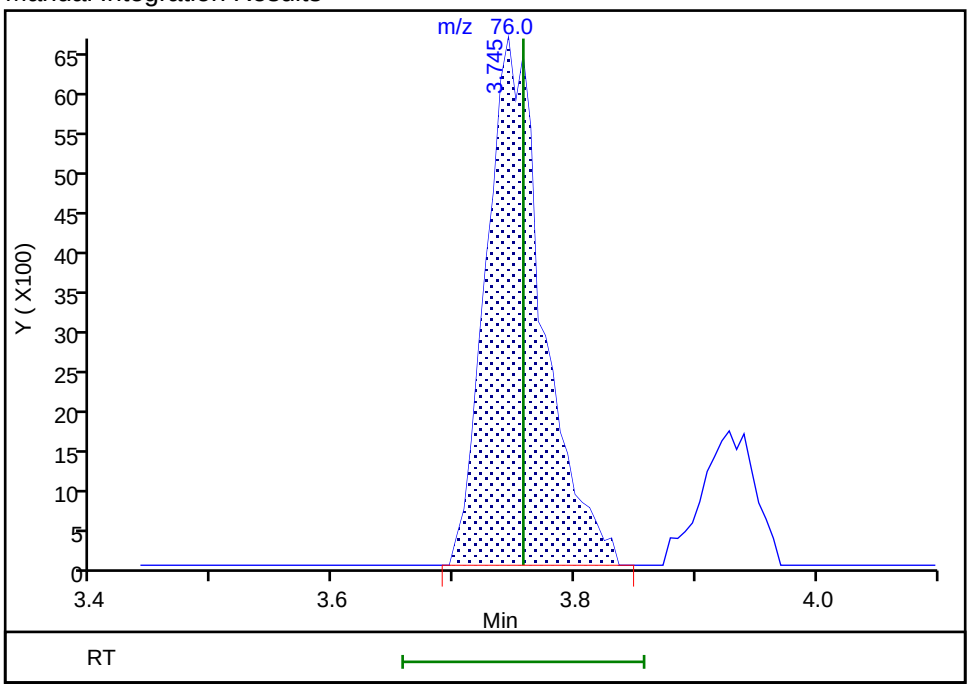
Processing Integration Results

RT: 3.74
Area: 11882
Amount: 0.227962
Amount Units: ug/l



Manual Integration Results

RT: 3.74
Area: 21733
Amount: 0.178430
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:17:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

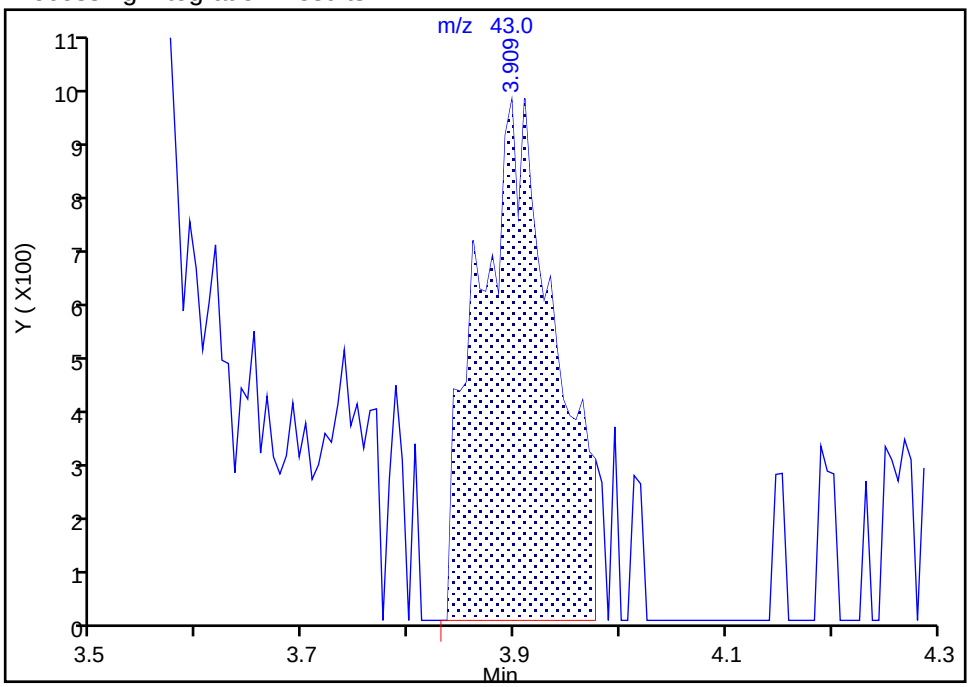
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Injection Date:	10-Jan-2022 23:46:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

27 Methyl acetate, CAS: 79-20-9

Signal: 1

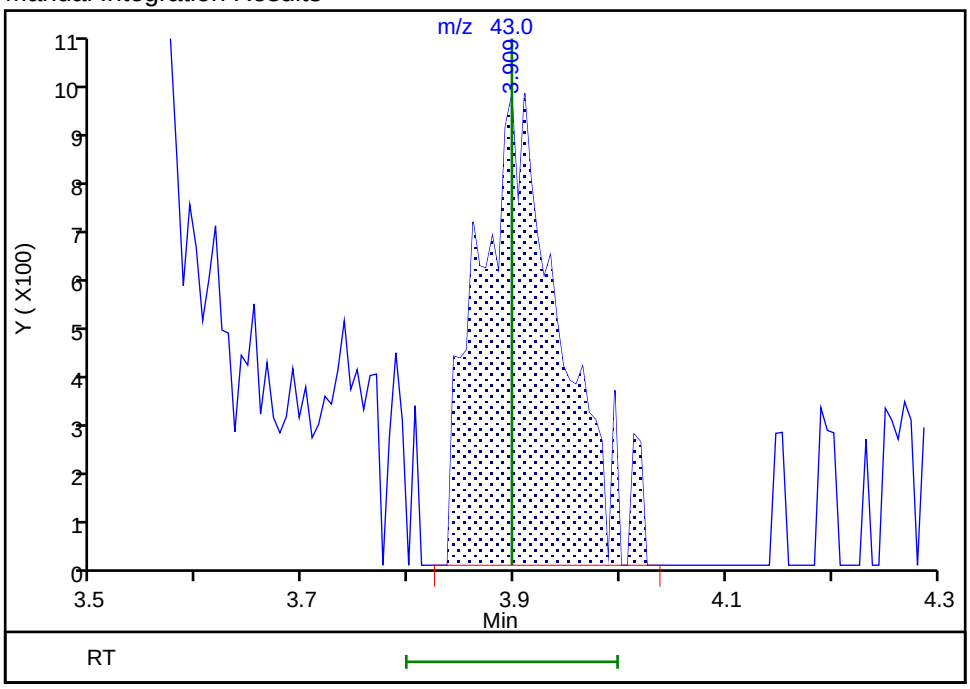
Processing Integration Results

RT: 3.91
Area: 4851
Amount: 0.214373
Amount Units: ug/l



Manual Integration Results

RT: 3.91
Area: 5261
Amount: 0.229521
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:17:07

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

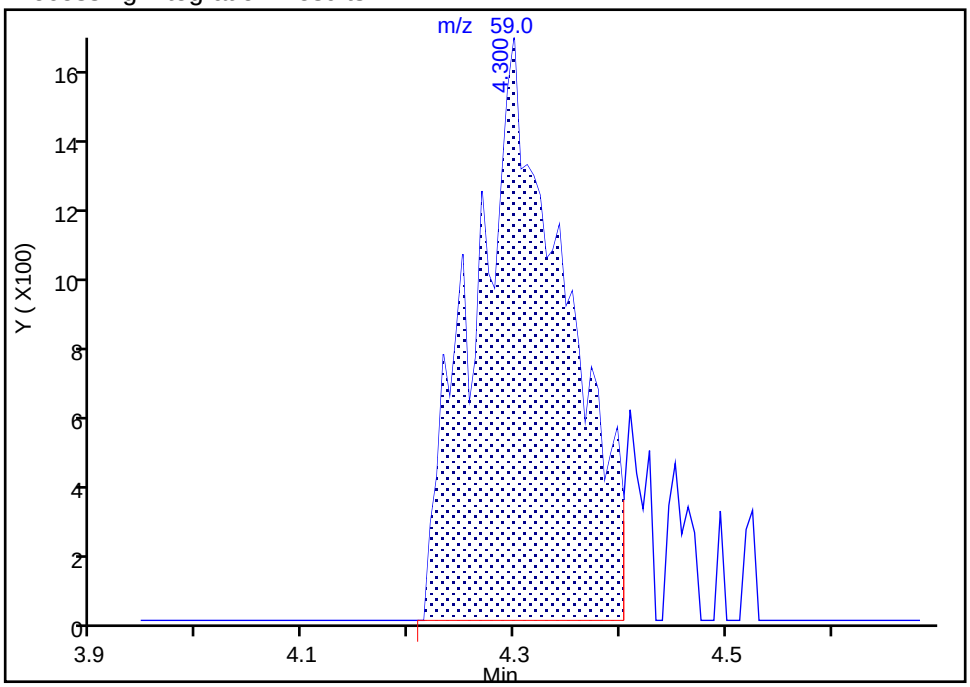
Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D
Injection Date: 10-Jan-2022 23:46:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

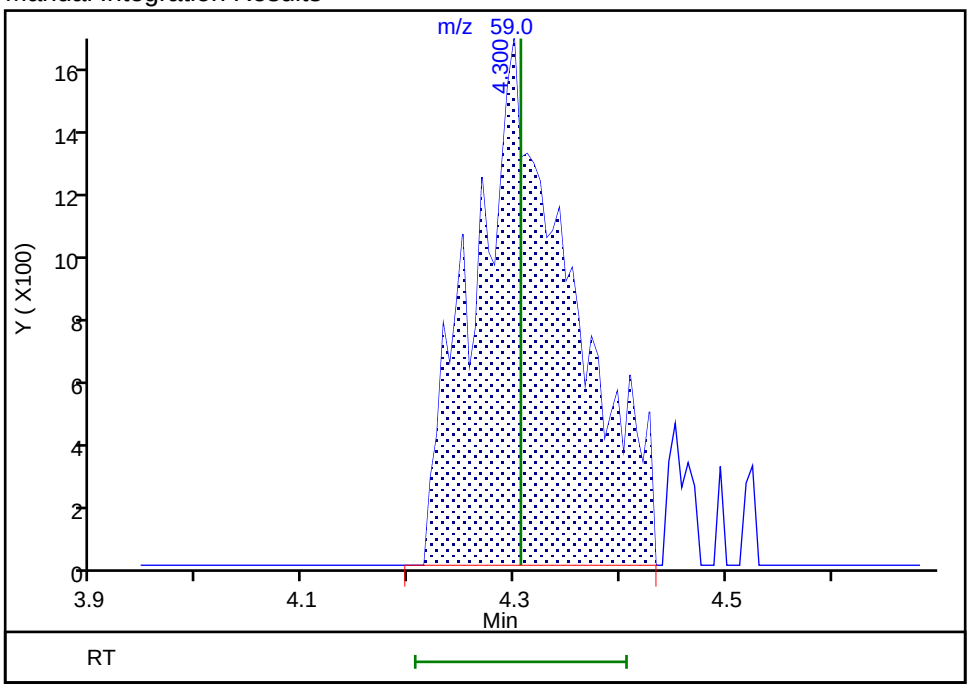
Processing Integration Results

RT: 4.30
Area: 10269
Amount: 3.375708
Amount Units: ug/l



Manual Integration Results

RT: 4.30
Area: 10950
Amount: 3.571021
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:17:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

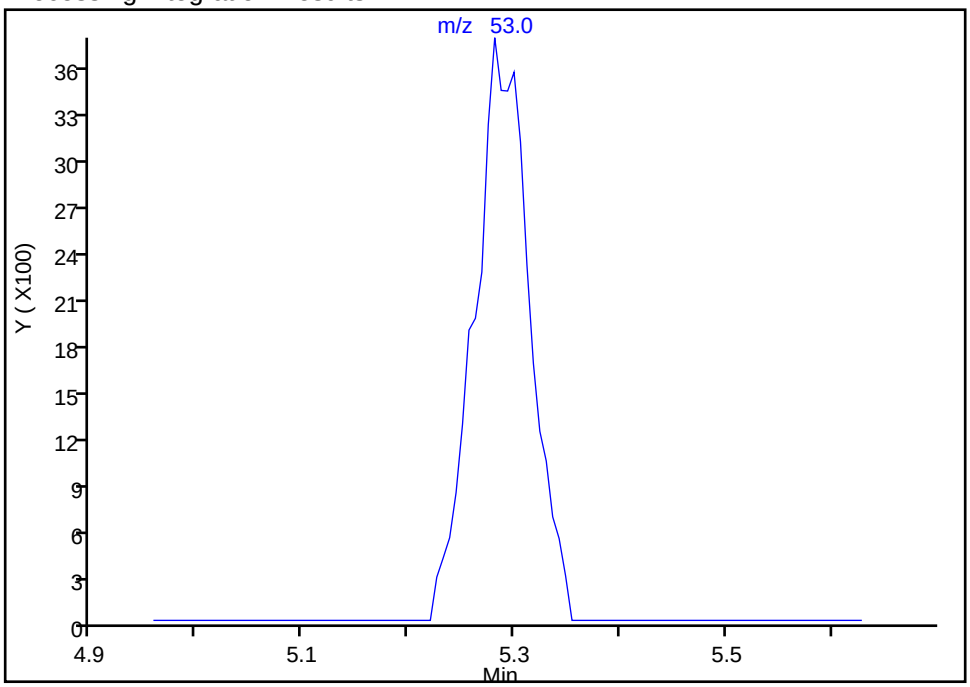
Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D
Injection Date: 10-Jan-2022 23:46:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

39 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

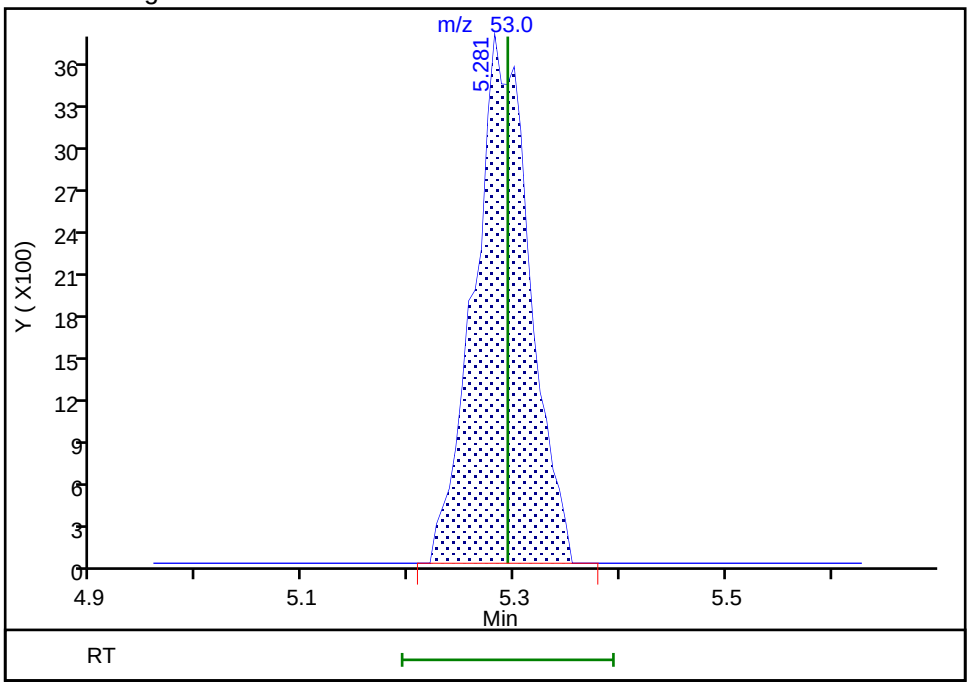
Not Detected
Expected RT: 5.29

Processing Integration Results



Manual Integration Results

RT: 5.28
Area: 13827
Amount: 0.190182
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:17:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

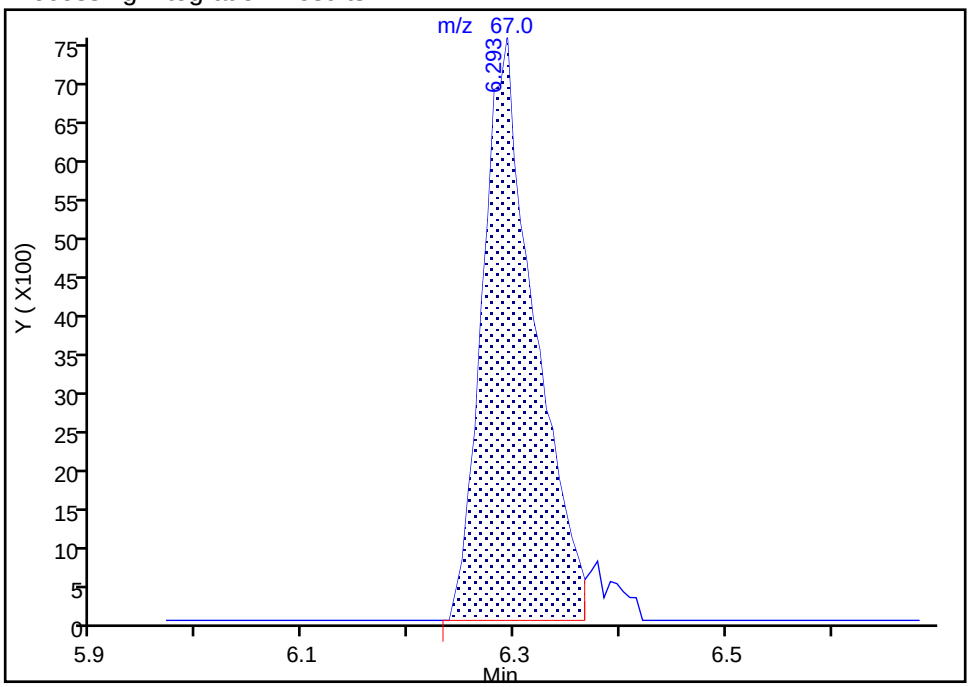
Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D
Injection Date: 10-Jan-2022 23:46:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

48 Methacrylonitrile, CAS: 126-98-7

Signal: 1

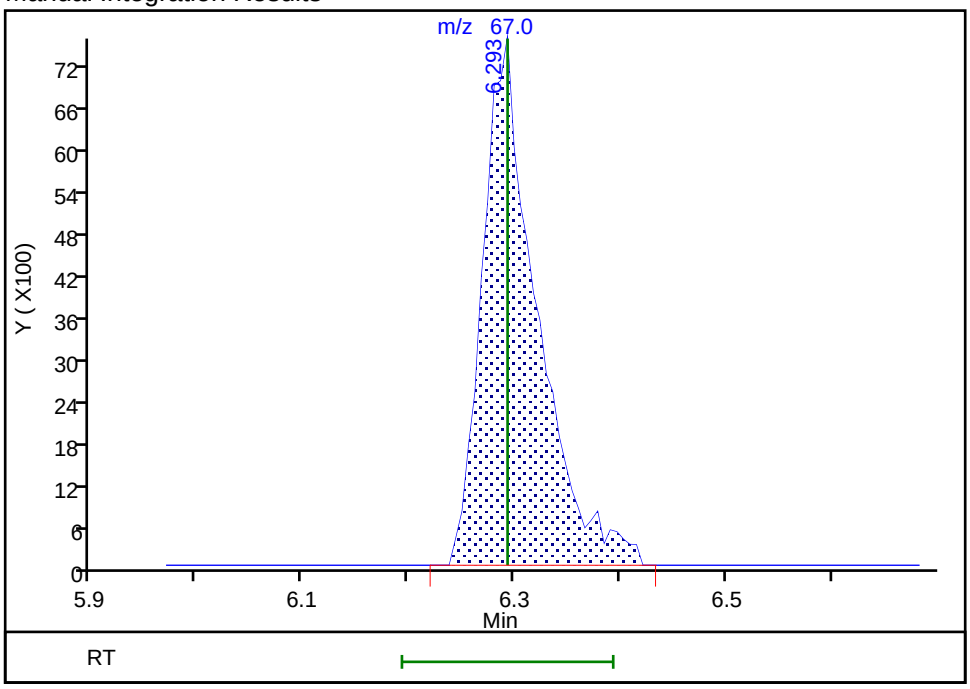
Processing Integration Results

RT: 6.29
Area: 25711
Amount: 1.753893
Amount Units: ug/l



Manual Integration Results

RT: 6.29
Area: 27044
Amount: 1.832920
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:17:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

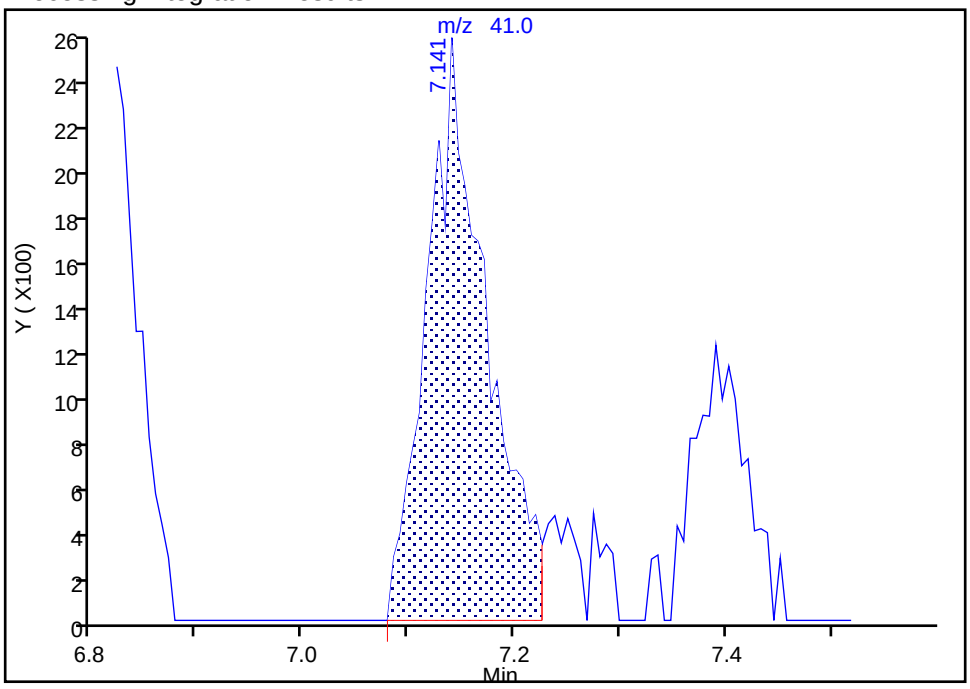
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Injection Date:	10-Jan-2022 23:46:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

58 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

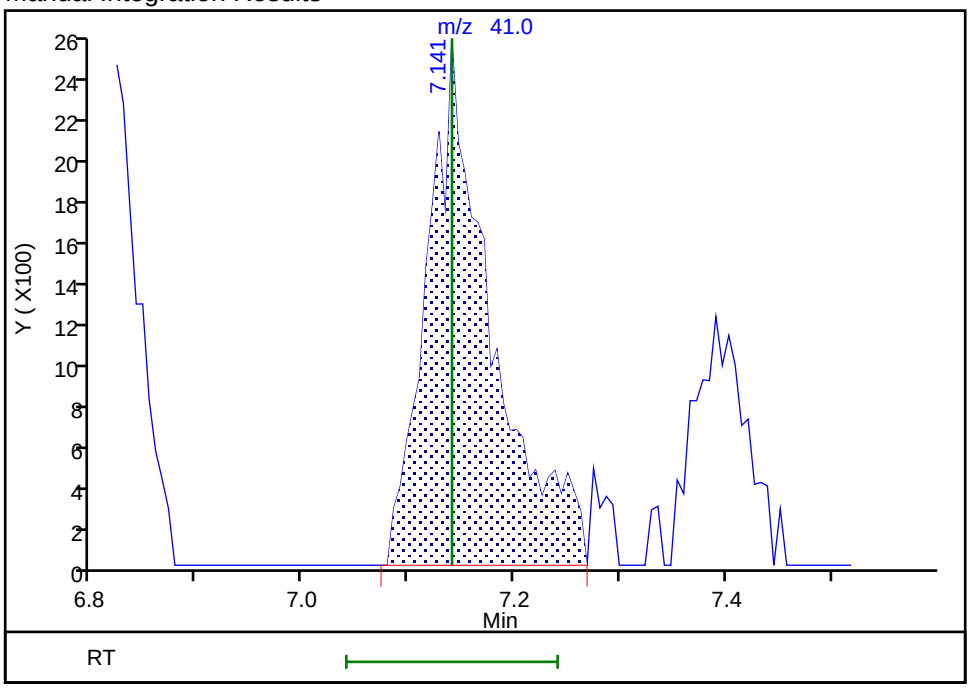
Processing Integration Results

RT: 7.14
Area: 9895
Amount: 9.014257
Amount Units: ug/l



Manual Integration Results

RT: 7.14
Area: 10724
Amount: 9.665193
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:17:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

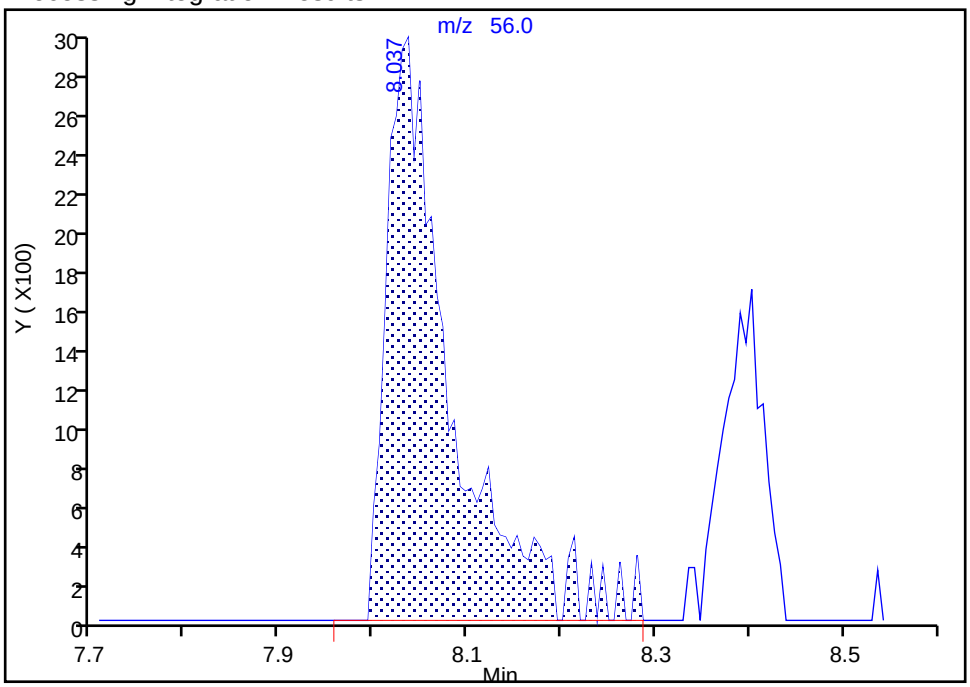
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Injection Date:	10-Jan-2022 23:46:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

67 n-Butanol, CAS: 71-36-3

Signal: 1

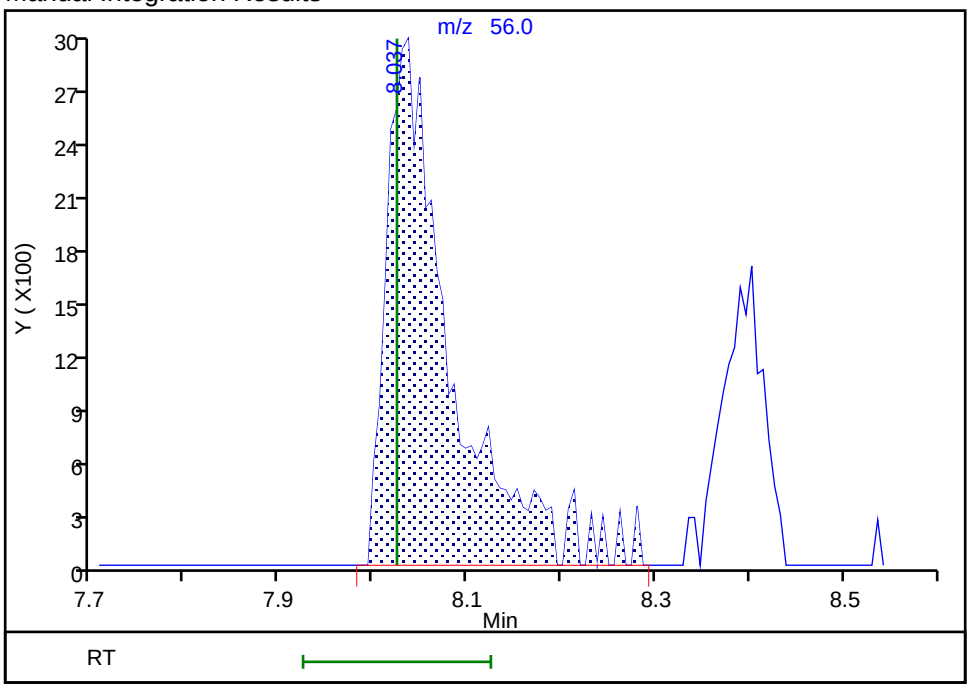
Processing Integration Results

RT: 8.04
Area: 13834
Amount: 18.463075
Amount Units: ug/l



Manual Integration Results

RT: 8.04
Area: 13834
Amount: 13.757422
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:24:54

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

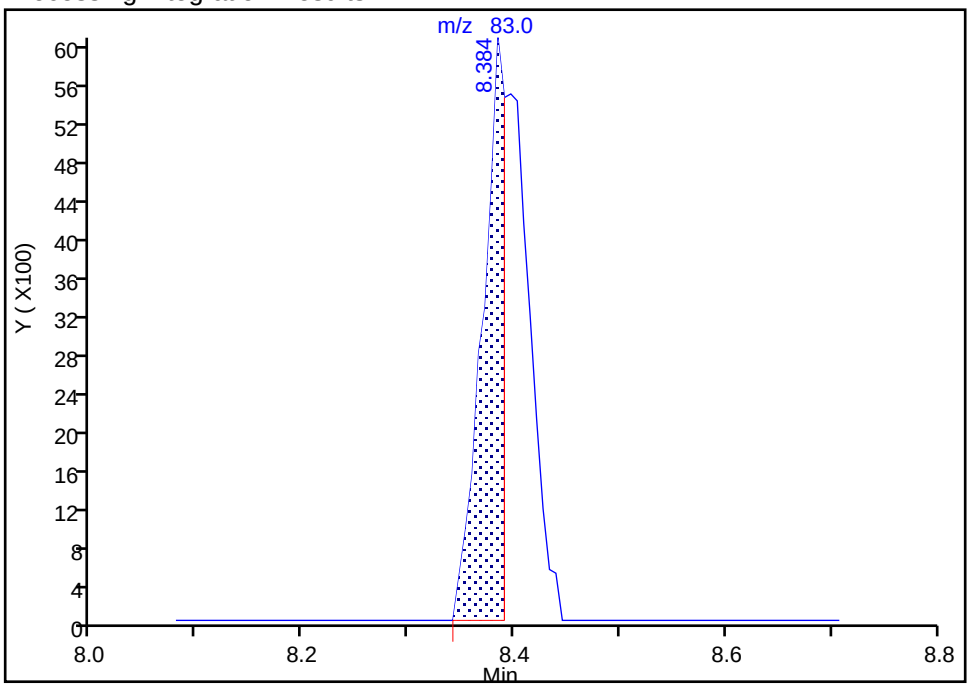
Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D
Injection Date: 10-Jan-2022 23:46:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

69 Methylcyclohexane, CAS: 108-87-2

Signal: 1

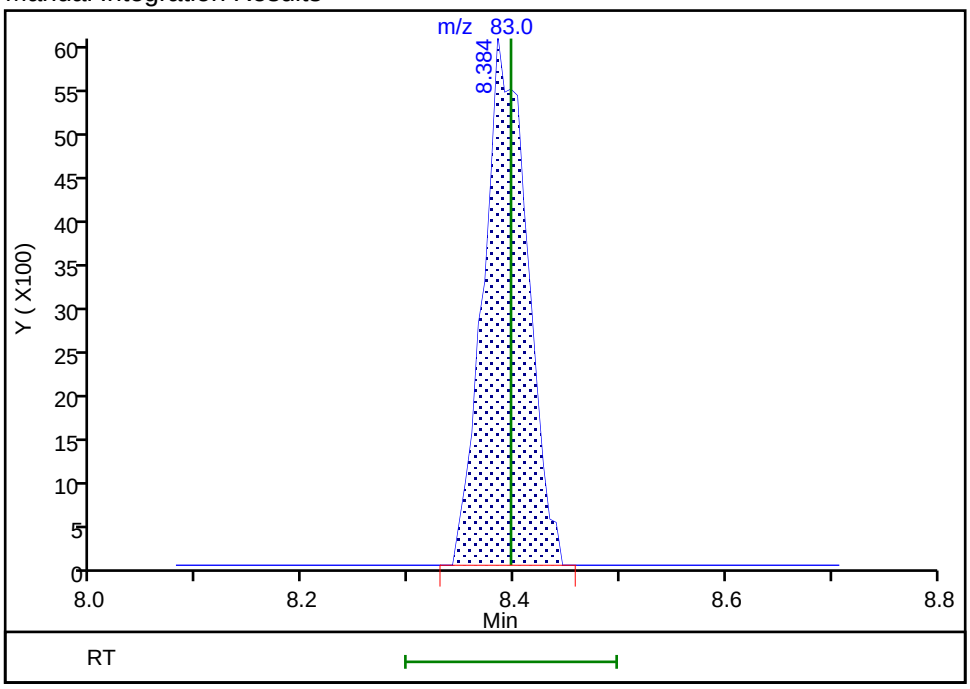
Processing Integration Results

RT: 8.38
Area: 9208
Amount: 0.182502
Amount Units: ug/l



Manual Integration Results

RT: 8.38
Area: 17469
Amount: 0.183056
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:17:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

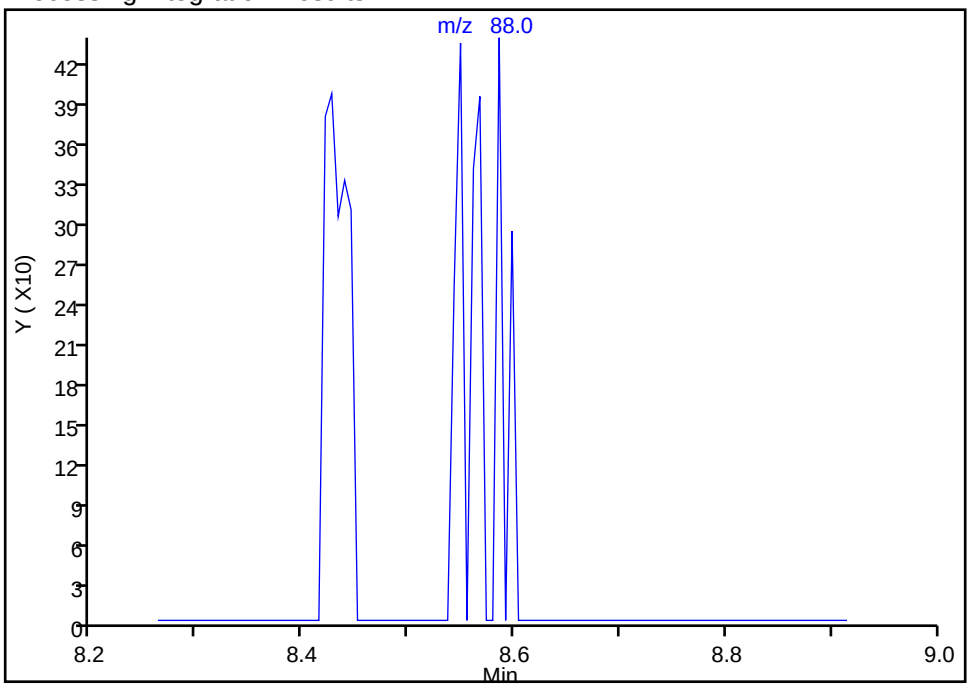
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Injection Date:	10-Jan-2022 23:46:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

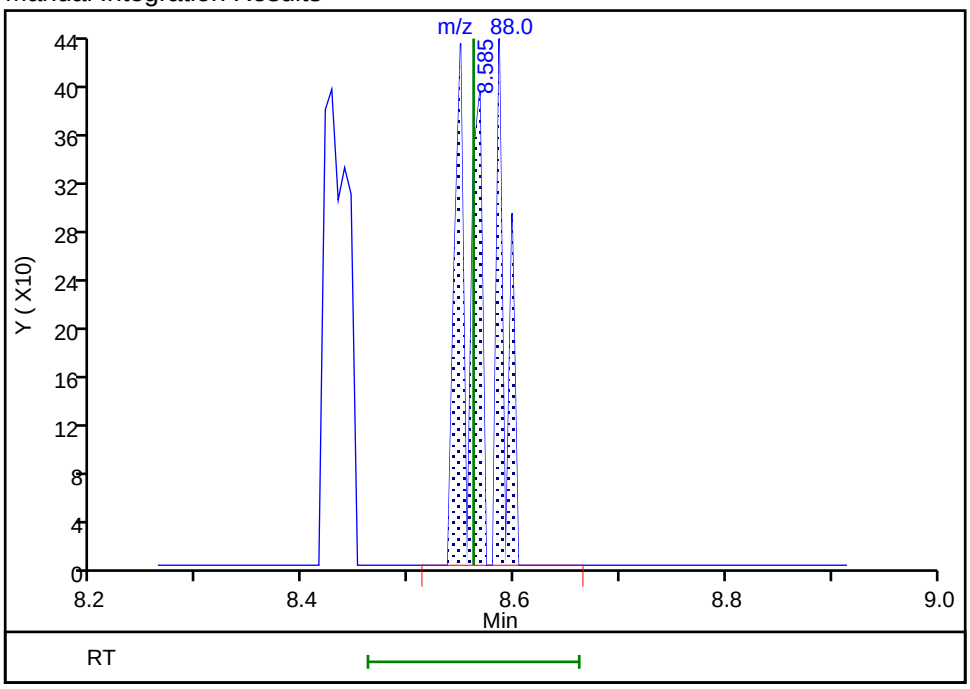
Not Detected
Expected RT: 8.56

Processing Integration Results



Manual Integration Results

RT: 8.59
Area: 784
Amount: 3.677885
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:17:51
Audit Action: Manually Integrated 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

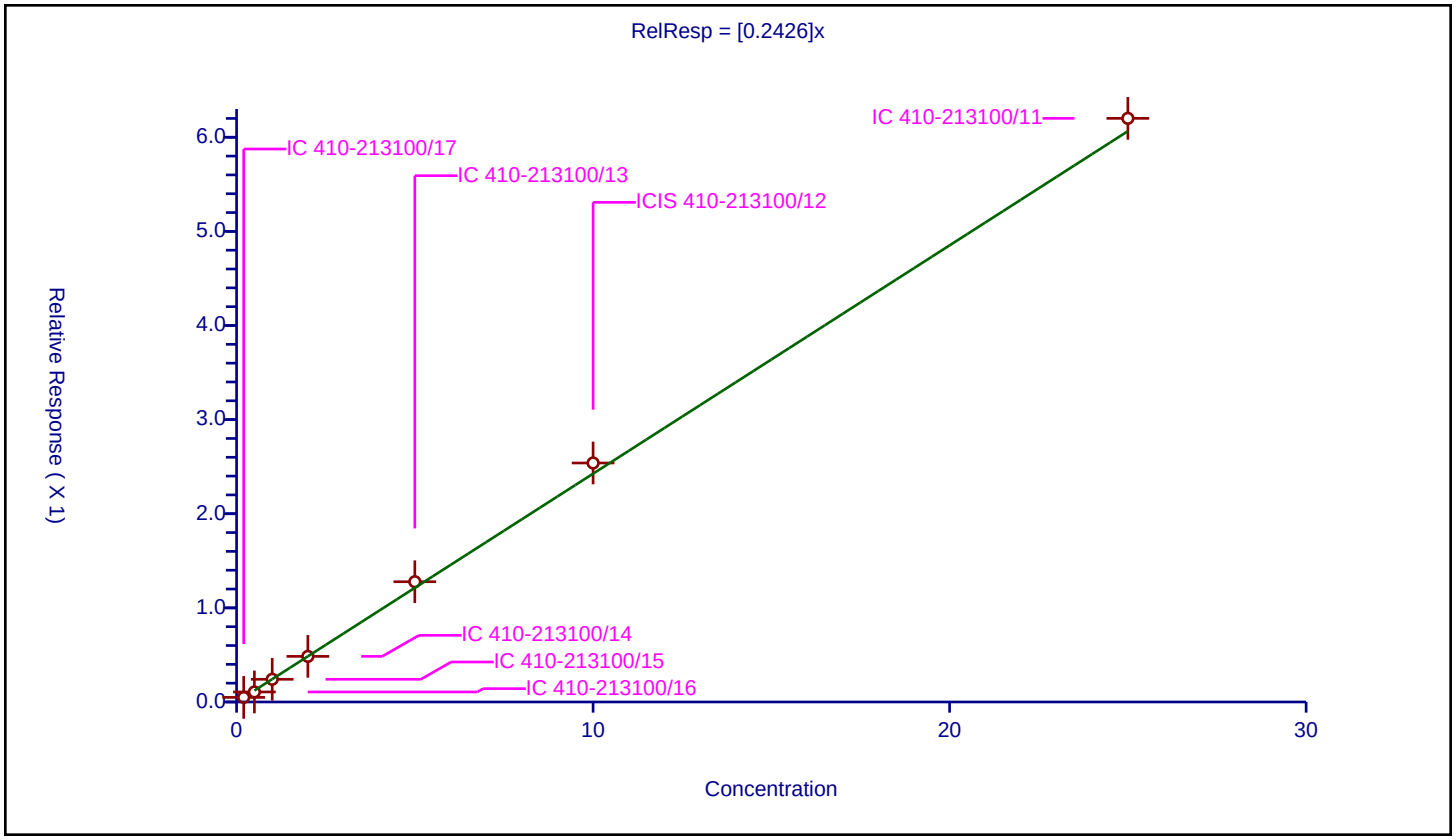
Curve Coefficients

Intercept:	0
Slope:	0.2426

Error Coefficients

Standard Error:	663000
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.048754	10.0	2322487.0	0.243769	Y
2	IC 410-213100/16	0.5	0.106618	10.0	2304387.0	0.213237	Y
3	IC 410-213100/15	1.0	0.241264	10.0	2305396.0	0.241264	Y
4	IC 410-213100/14	2.0	0.484501	10.0	2301914.0	0.242251	Y
5	IC 410-213100/13	5.0	1.277665	10.0	2337780.0	0.255533	Y
6	ICIS 410-213100/12	10.0	2.539139	10.0	2348513.0	0.253914	Y
7	IC 410-213100/11	25.0	6.200799	10.0	2378237.0	0.248032	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

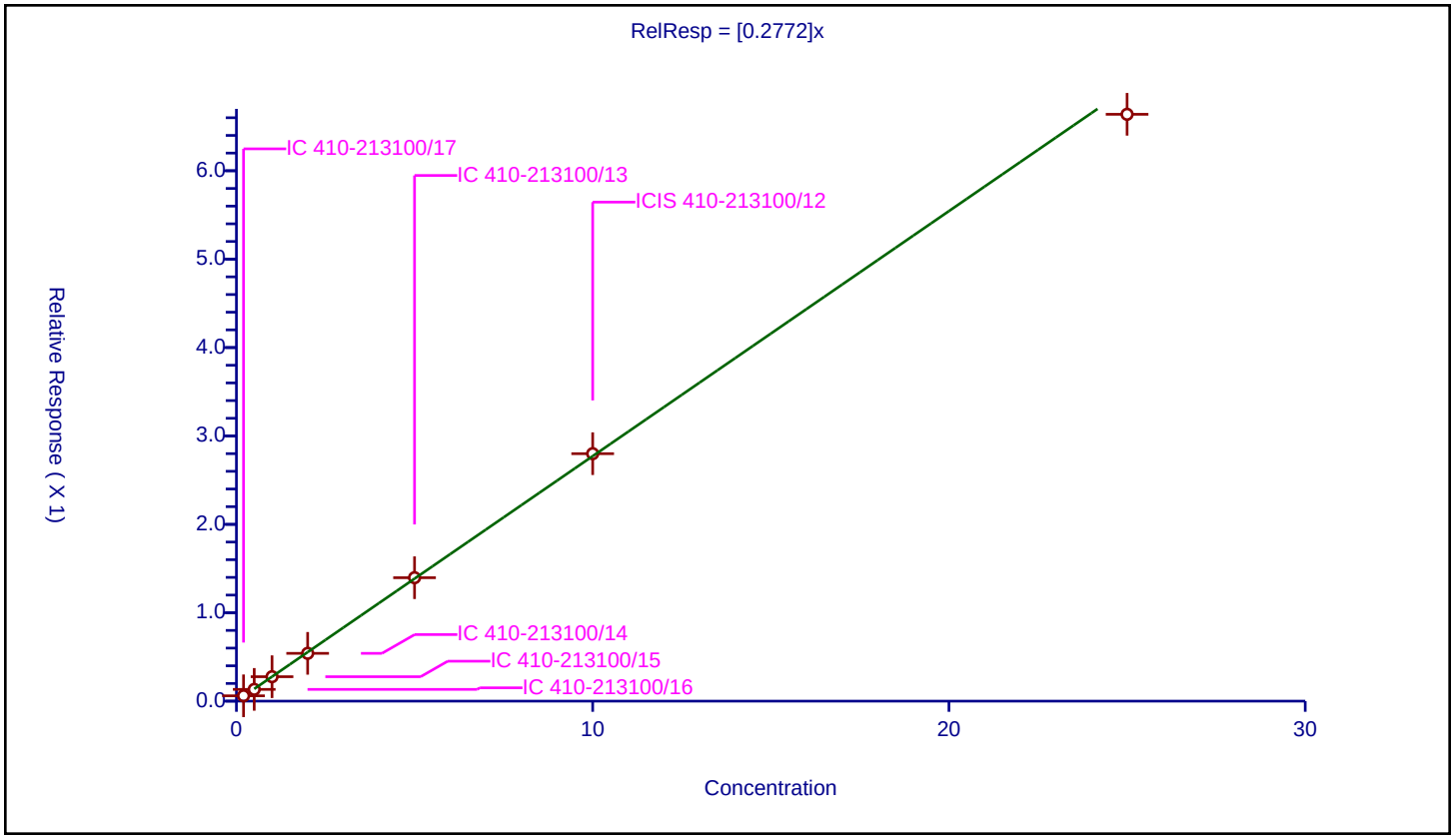
Curve Coefficients

Intercept:	0
Slope:	0.2772

Error Coefficients

Standard Error:	713000
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 410-213100/17	0.2	0.060539	10.0	2322487.0	0.302693	Y
2	IC 410-213100/16	0.5	0.133055	10.0	2304387.0	0.26611	Y
3	IC 410-213100/15	1.0	0.276313	10.0	2305396.0	0.276313	Y
4	IC 410-213100/14	2.0	0.540837	10.0	2301914.0	0.270418	Y
5	IC 410-213100/13	5.0	1.396513	10.0	2337780.0	0.279303	Y
6	ICIS 410-213100/12	10.0	2.79961	10.0	2348513.0	0.279961	Y
7	IC 410-213100/11	25.0	6.63875	10.0	2378237.0	0.26555	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

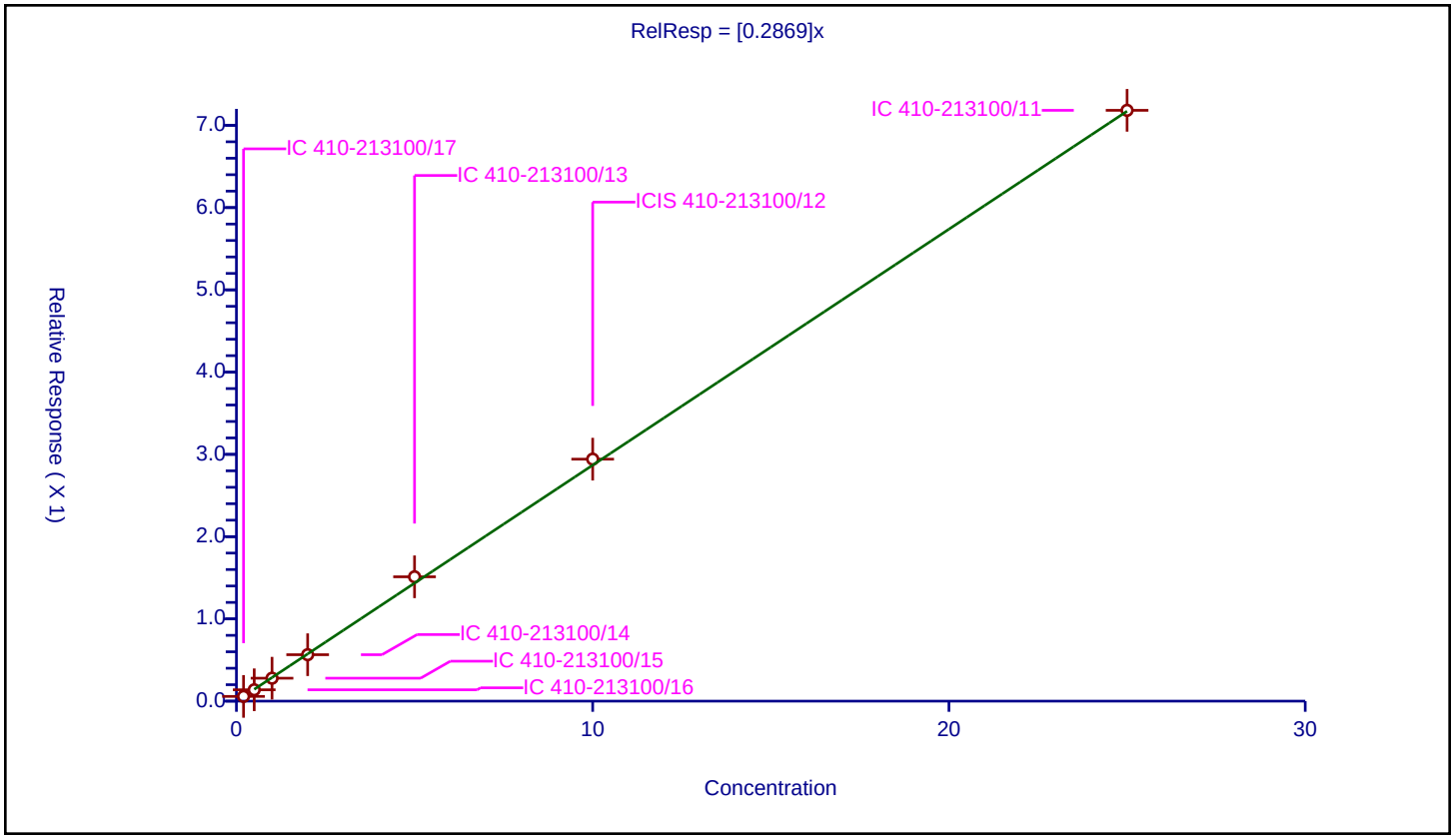
Curve Coefficients

Intercept:	0
Slope:	0.2869

Error Coefficients

Standard Error:	768000
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 410-213100/17	0.2	0.057438	10.0	2322487.0	0.287192	Y
2	IC 410-213100/16	0.5	0.138006	10.0	2304387.0	0.276013	Y
3	IC 410-213100/15	1.0	0.278854	10.0	2305396.0	0.278854	Y
4	IC 410-213100/14	2.0	0.564682	10.0	2301914.0	0.282341	Y
5	IC 410-213100/13	5.0	1.511524	10.0	2337780.0	0.302305	Y
6	ICIS 410-213100/12	10.0	2.941959	10.0	2348513.0	0.294196	Y
7	IC 410-213100/11	25.0	7.182442	10.0	2378237.0	0.287298	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

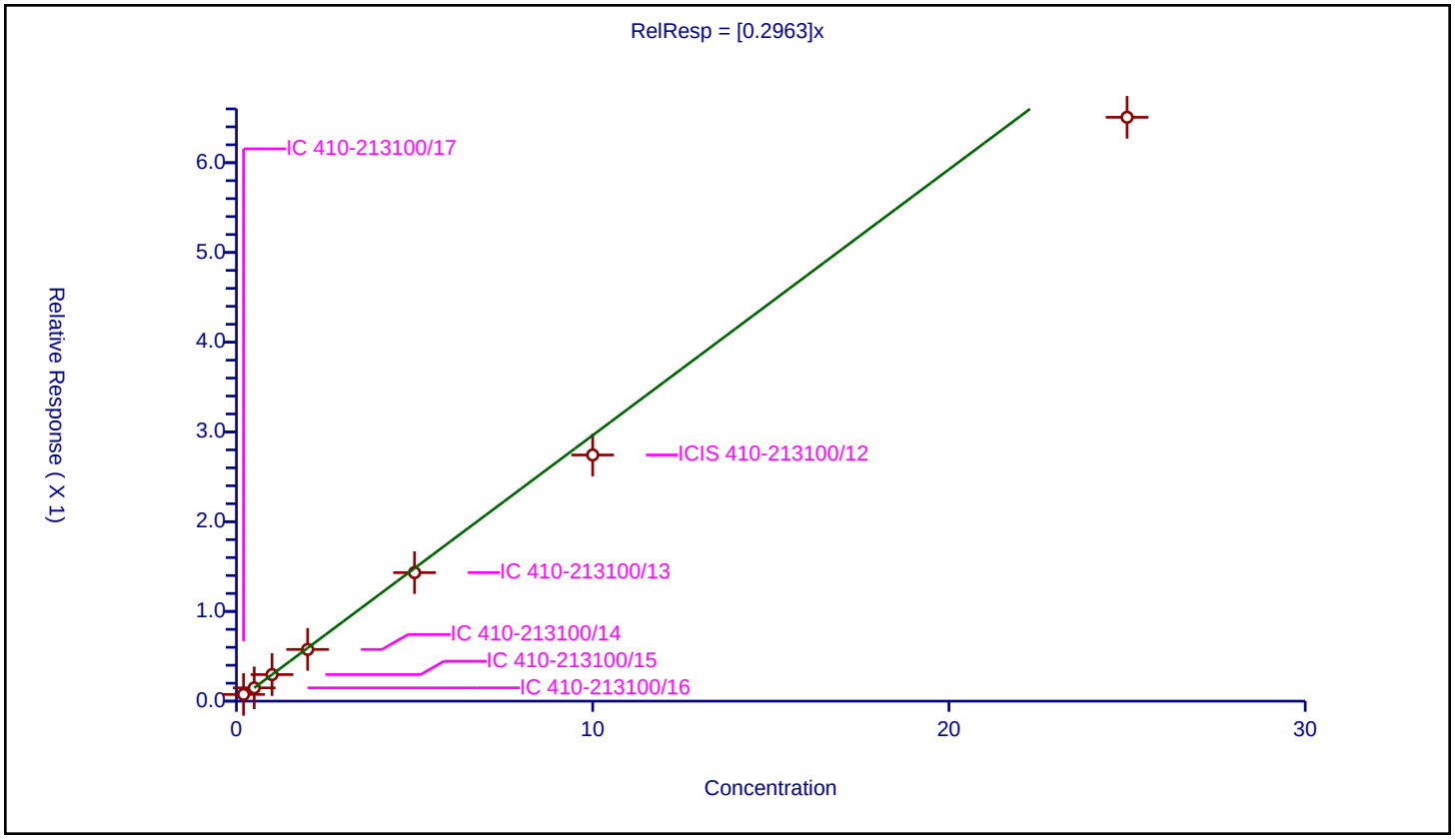
Curve Coefficients

Intercept:	0
Slope:	0.2963

Error Coefficients

Standard Error:	701000
Relative Standard Error:	12.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.074567	10.0	2322487.0	0.372833	Y
2	IC 410-213100/16	0.5	0.14787	10.0	2304387.0	0.29574	Y
3	IC 410-213100/15	1.0	0.296166	10.0	2305396.0	0.296166	Y
4	IC 410-213100/14	2.0	0.576168	10.0	2301914.0	0.288084	Y
5	IC 410-213100/13	5.0	1.432367	10.0	2337780.0	0.286473	Y
6	ICIS 410-213100/12	10.0	2.743234	10.0	2348513.0	0.274323	Y
7	IC 410-213100/11	25.0	6.506593	10.0	2378237.0	0.260264	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

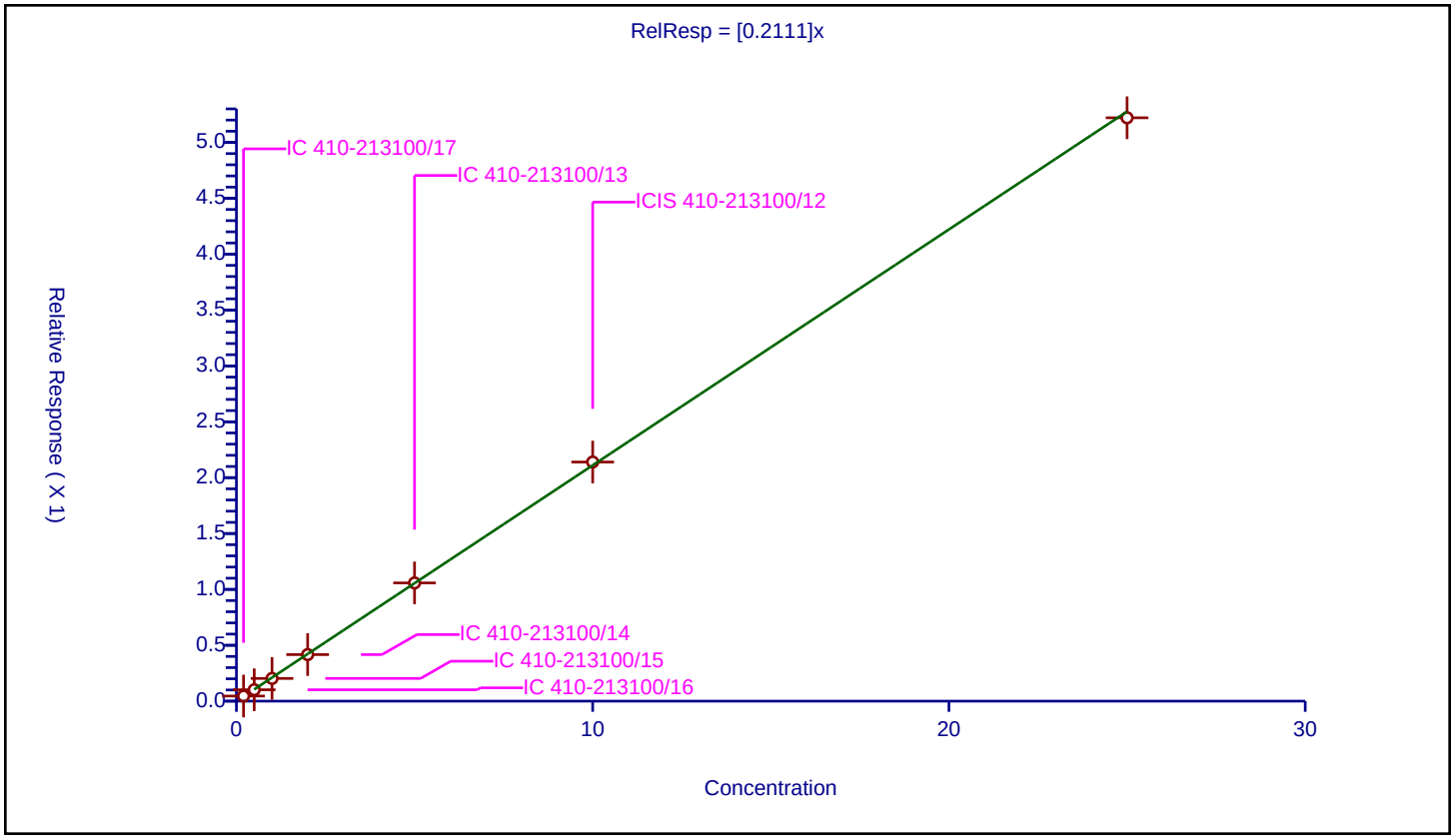
Curve Coefficients

Intercept:	0
Slope:	0.2111

Error Coefficients

Standard Error:	558000
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 410-213100/17	0.2	0.04555	10.0	2322487.0	0.227752	Y
2	IC 410-213100/16	0.5	0.10194	10.0	2304387.0	0.203881	Y
3	IC 410-213100/15	1.0	0.203106	10.0	2305396.0	0.203106	Y
4	IC 410-213100/14	2.0	0.416584	10.0	2301914.0	0.208292	Y
5	IC 410-213100/13	5.0	1.05788	10.0	2337780.0	0.211576	Y
6	ICIS 410-213100/12	10.0	2.139848	10.0	2348513.0	0.213985	Y
7	IC 410-213100/11	25.0	5.220371	10.0	2378237.0	0.208815	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

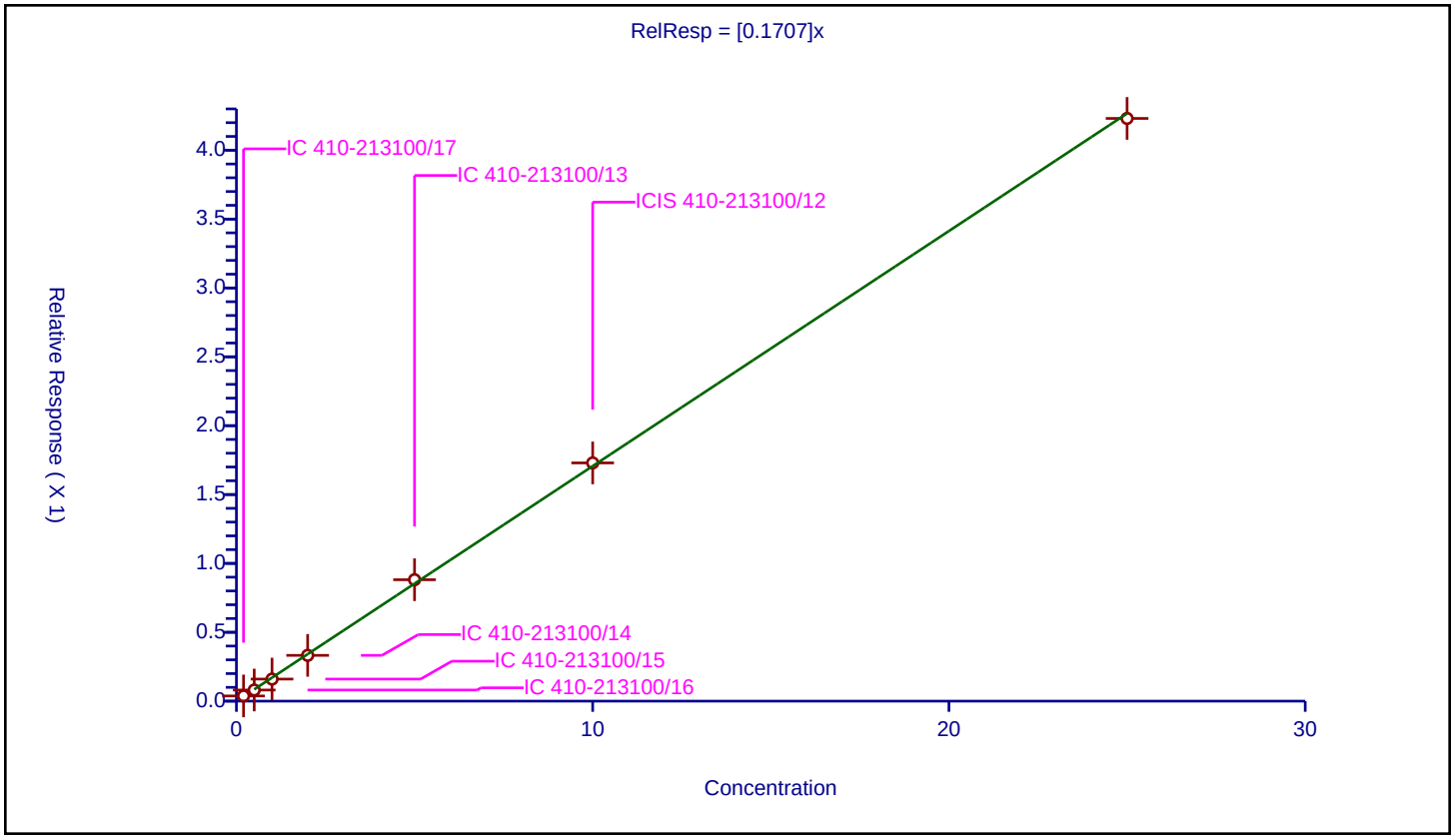
Curve Coefficients

Intercept:	0
Slope:	0.1707

Error Coefficients

Standard Error:	452000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.037697	10.0	2322487.0	0.188483	Y
2	IC 410-213100/16	0.5	0.080677	10.0	2304387.0	0.161353	Y
3	IC 410-213100/15	1.0	0.160189	10.0	2305396.0	0.160189	Y
4	IC 410-213100/14	2.0	0.332315	10.0	2301914.0	0.166157	Y
5	IC 410-213100/13	5.0	0.881447	10.0	2337780.0	0.176289	Y
6	ICIS 410-213100/12	10.0	1.729682	10.0	2348513.0	0.172968	Y
7	IC 410-213100/11	25.0	4.230684	10.0	2378237.0	0.169227	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

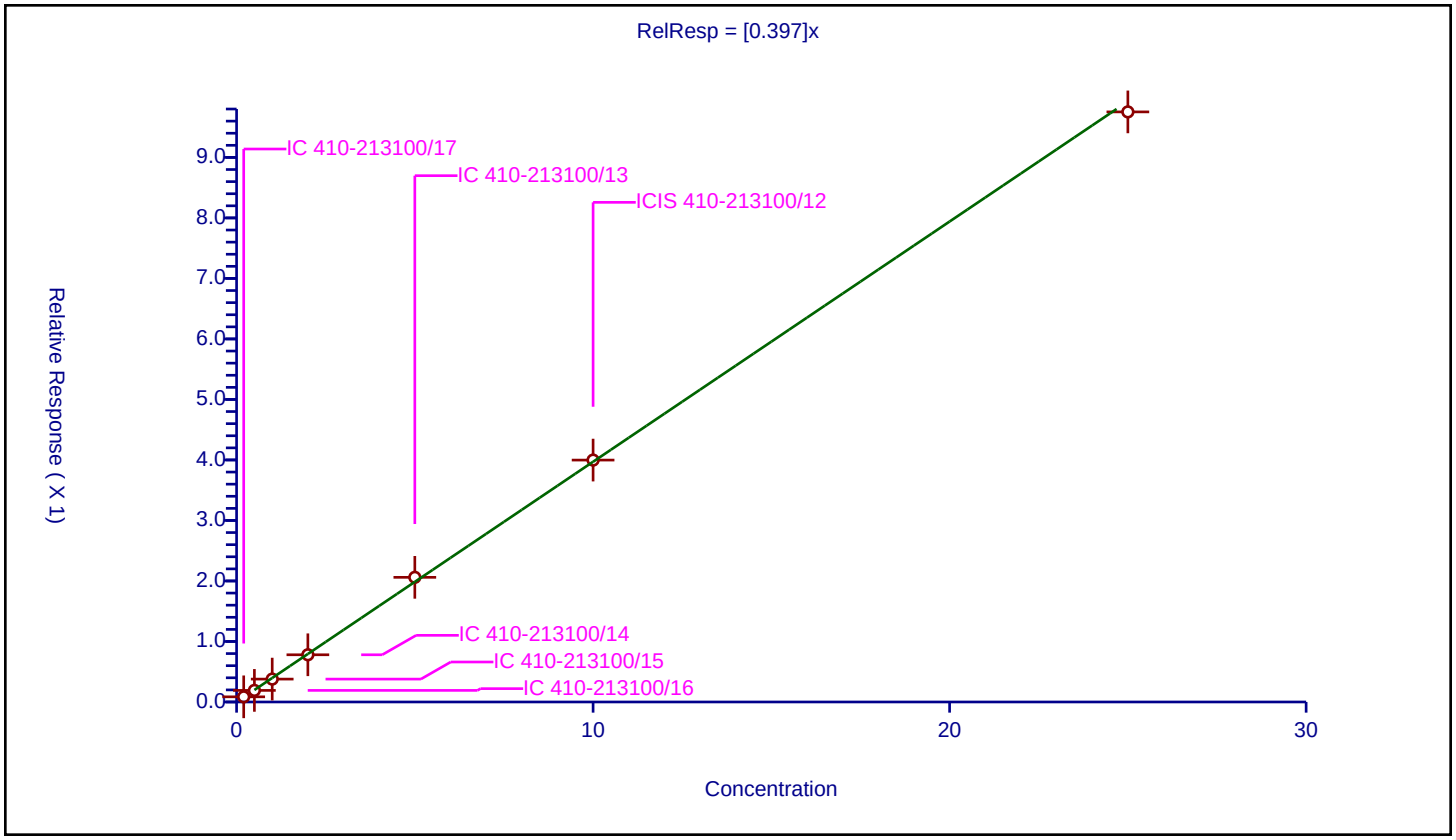
Curve Coefficients

Intercept:	0
Slope:	0.397

Error Coefficients

Standard Error:	1040000
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 410-213100/17	0.2	0.085103	10.0	2322487.0	0.425514	Y
2	IC 410-213100/16	0.5	0.19153	10.0	2304387.0	0.383061	Y
3	IC 410-213100/15	1.0	0.378508	10.0	2305396.0	0.378508	Y
4	IC 410-213100/14	2.0	0.780351	10.0	2301914.0	0.390175	Y
5	IC 410-213100/13	5.0	2.060091	10.0	2337780.0	0.412018	Y
6	ICIS 410-213100/12	10.0	3.997806	10.0	2348513.0	0.399781	Y
7	IC 410-213100/11	25.0	9.752388	10.0	2378237.0	0.390096	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

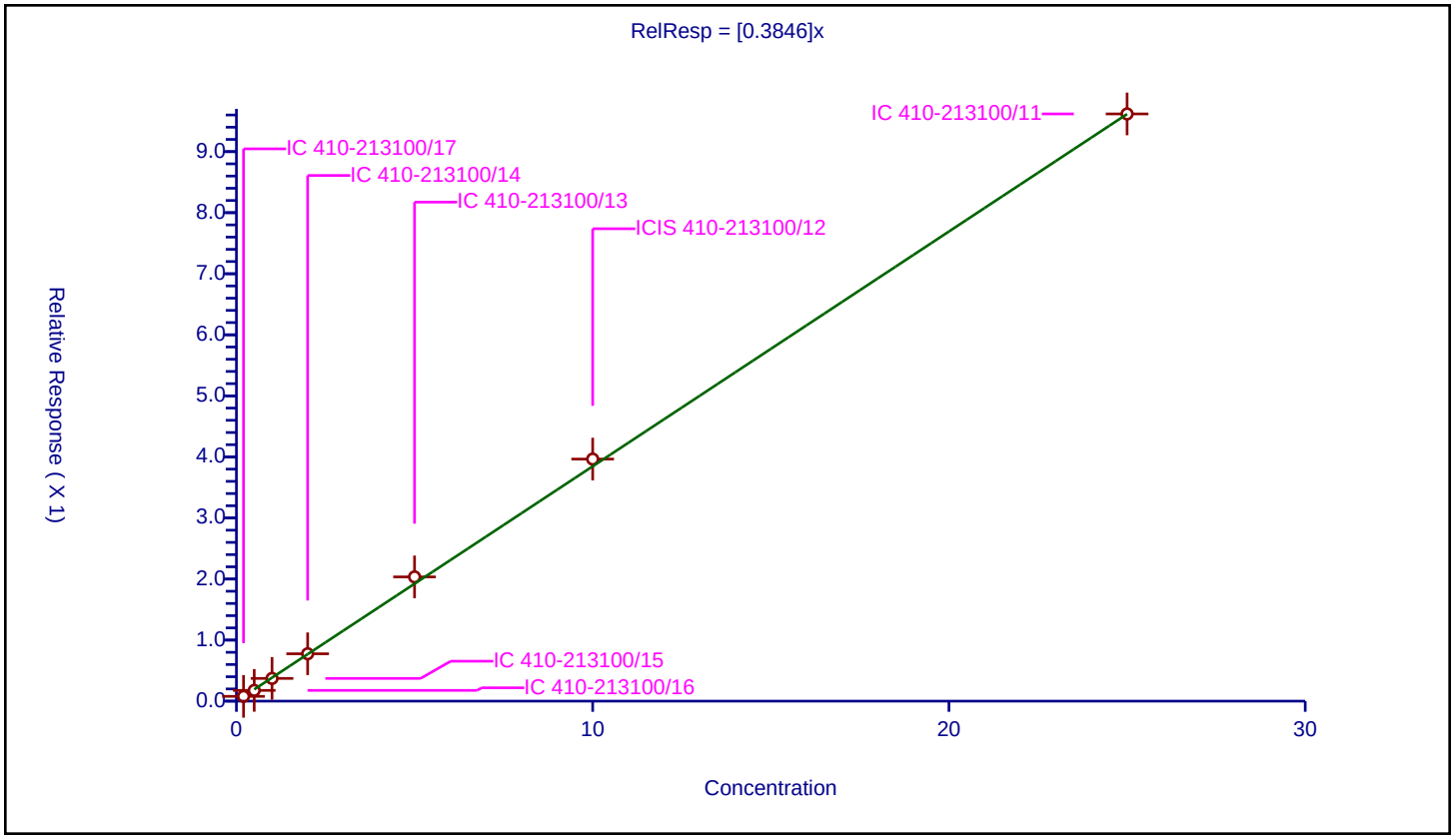
Curve Coefficients

Intercept:	0
Slope:	0.3846

Error Coefficients

Standard Error:	1030000
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 410-213100/17	0.2	0.078321	10.0	2322487.0	0.391606	Y
2	IC 410-213100/16	0.5	0.176168	10.0	2304387.0	0.352337	Y
3	IC 410-213100/15	1.0	0.372183	10.0	2305396.0	0.372183	Y
4	IC 410-213100/14	2.0	0.775924	10.0	2301914.0	0.387962	Y
5	IC 410-213100/13	5.0	2.034819	10.0	2337780.0	0.406964	Y
6	ICIS 410-213100/12	10.0	3.964662	10.0	2348513.0	0.396466	Y
7	IC 410-213100/11	25.0	9.617729	10.0	2378237.0	0.384709	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

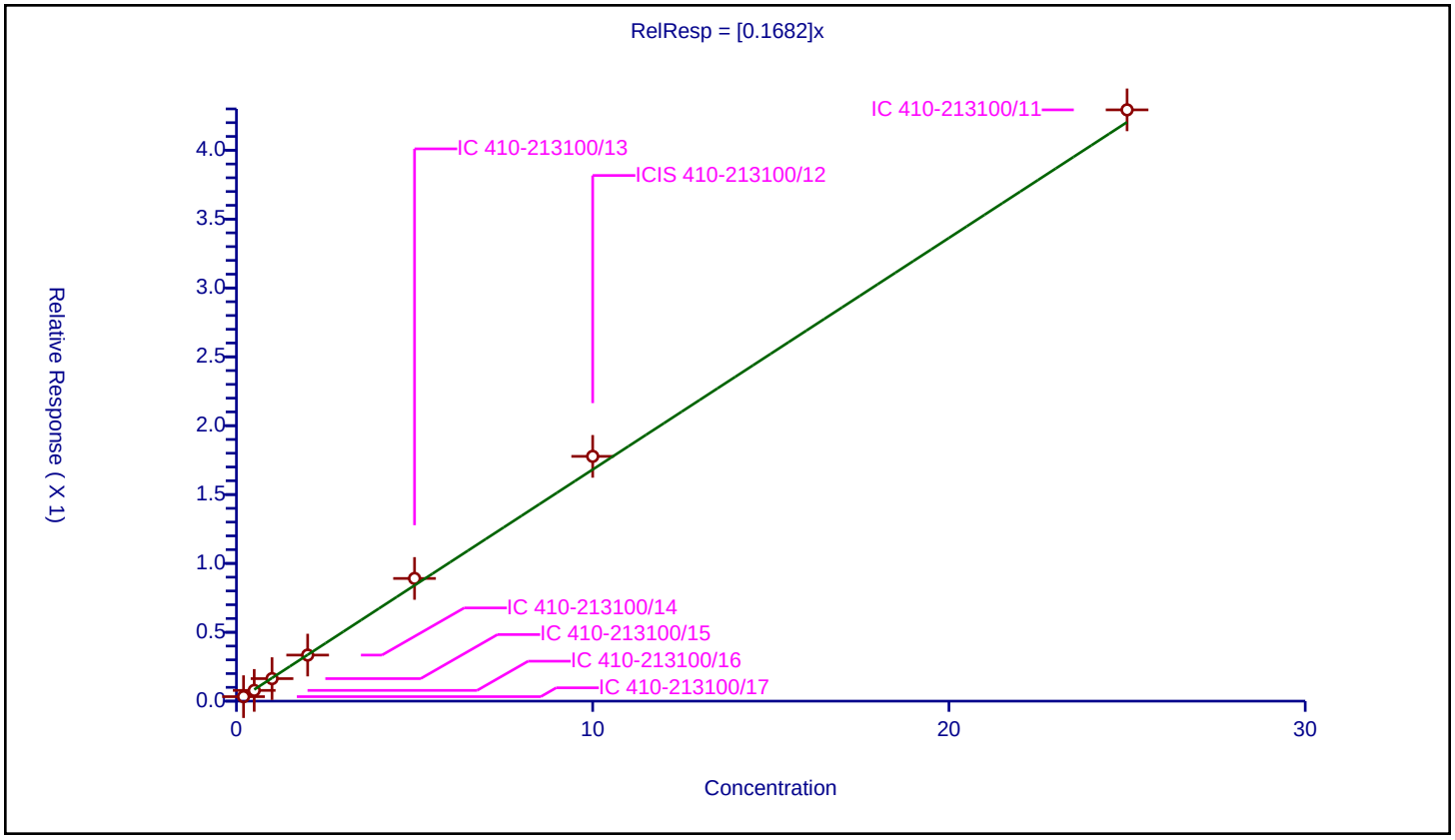
Curve Coefficients

Intercept:	0
Slope:	0.1682

Error Coefficients

Standard Error:	460000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.032538	10.0	2322487.0	0.162692	Y
2	IC 410-213100/16	0.5	0.077973	10.0	2304387.0	0.155946	Y
3	IC 410-213100/15	0.999999	0.163573	10.0	2305396.0	0.163573	Y
4	IC 410-213100/14	1.999998	0.334526	10.0	2301914.0	0.167263	Y
5	IC 410-213100/13	4.999995	0.890867	10.0	2337780.0	0.178173	Y
6	ICIS 410-213100/12	9.99999	1.777235	10.0	2348513.0	0.177724	Y
7	IC 410-213100/11	24.999975	4.293046	10.0	2378237.0	0.171722	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

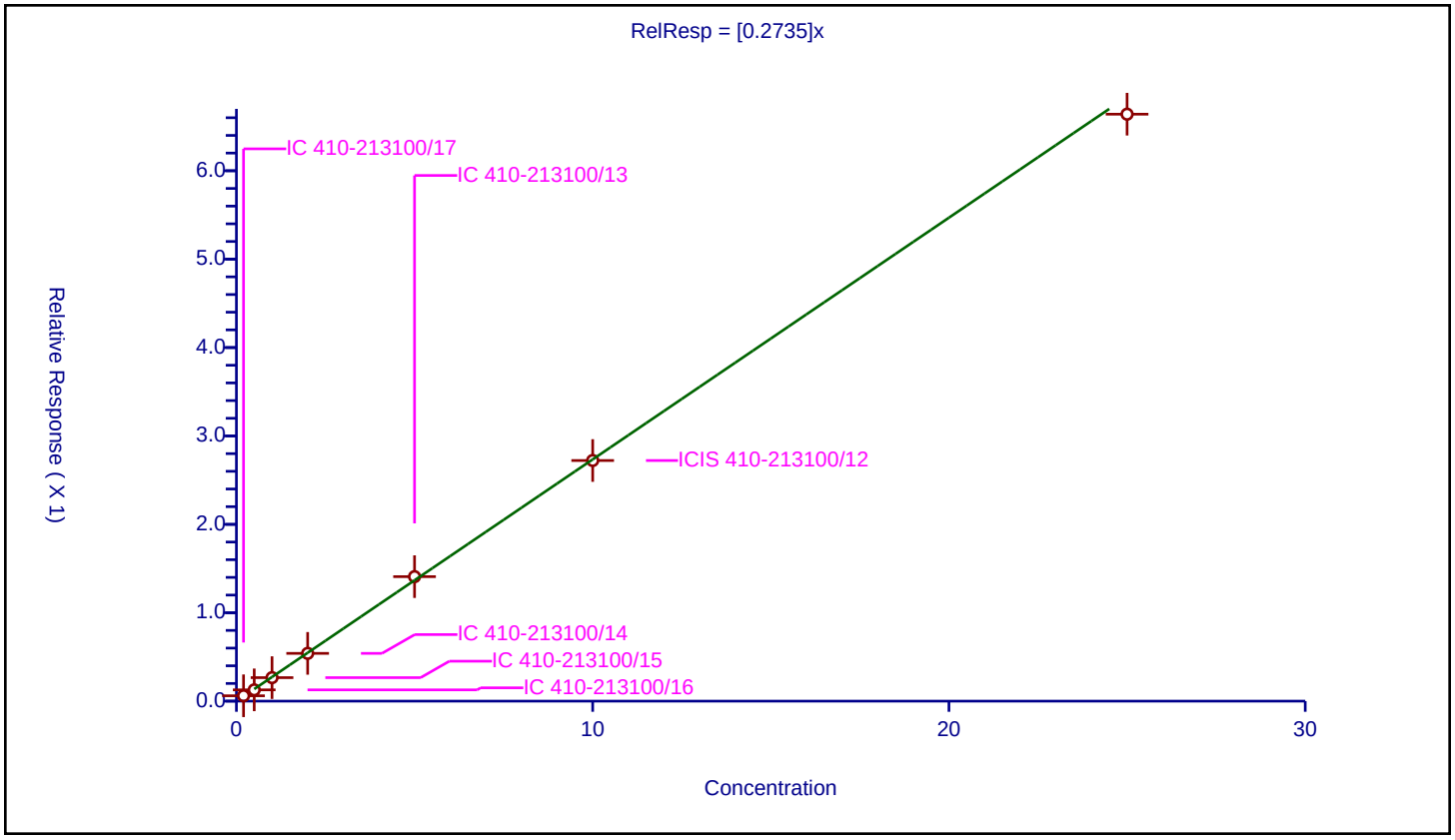
Curve Coefficients

Intercept:	0
Slope:	0.2735

Error Coefficients

Standard Error:	711000
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 410-213100/17	0.2	0.060616	10.0	2322487.0	0.30308	Y
2	IC 410-213100/16	0.5	0.127696	10.0	2304387.0	0.255391	Y
3	IC 410-213100/15	1.0	0.266015	10.0	2305396.0	0.266015	Y
4	IC 410-213100/14	2.0	0.540415	10.0	2301914.0	0.270208	Y
5	IC 410-213100/13	5.0	1.408554	10.0	2337780.0	0.281711	Y
6	ICIS 410-213100/12	10.0	2.722212	10.0	2348513.0	0.272221	Y
7	IC 410-213100/11	25.0	6.640053	10.0	2378237.0	0.265602	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

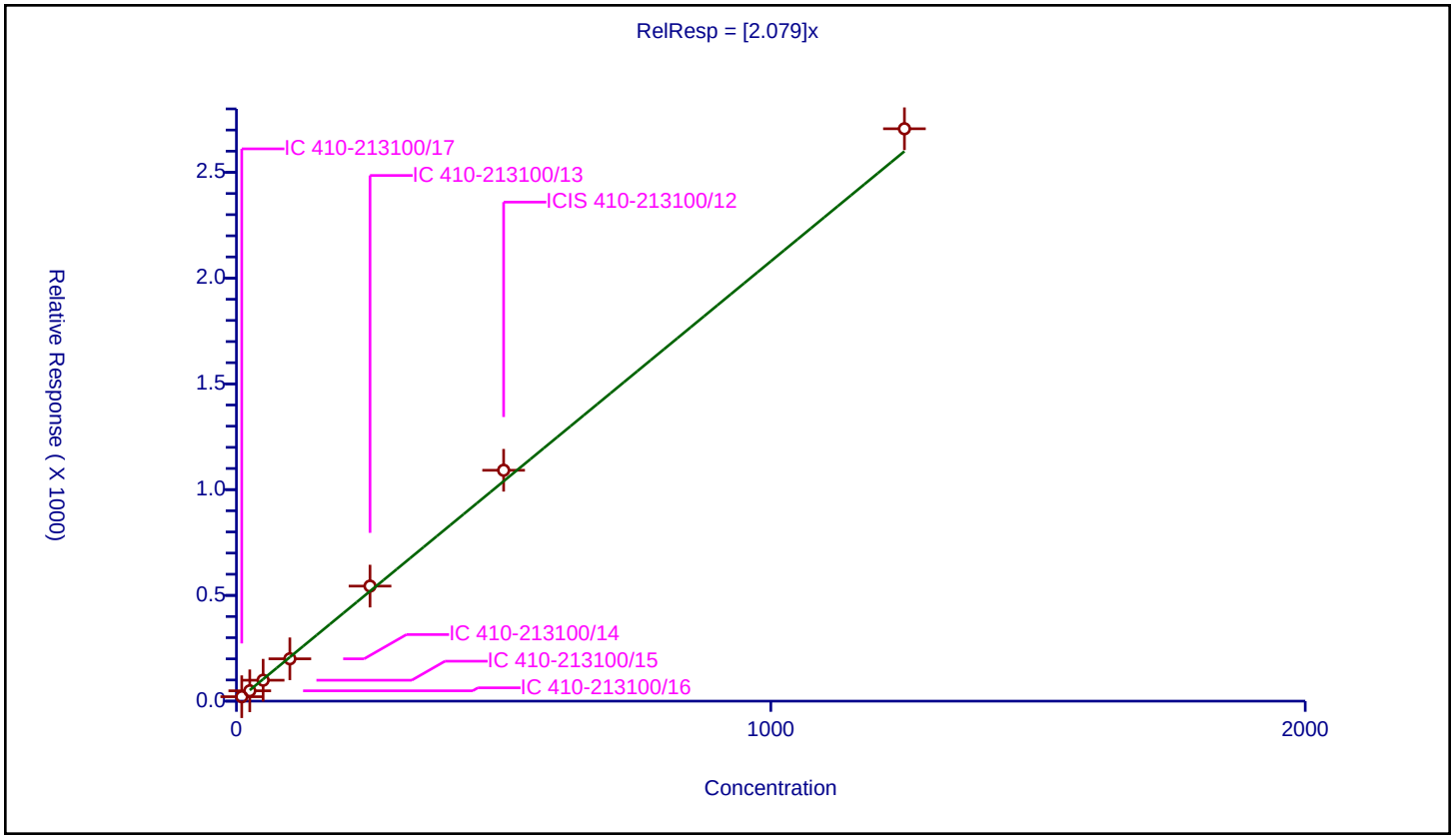
Curve Coefficients

Intercept:	0
Slope:	2.079

Error Coefficients

Standard Error:	3990000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	10.00054	20.991911	50.0	169370.0	2.099078	Y
2	IC 410-213100/16	25.00135	48.86629	50.0	173413.0	1.954546	Y
3	IC 410-213100/15	50.002699	98.866438	50.0	174406.0	1.977222	Y
4	IC 410-213100/14	100.005398	200.194264	50.0	178108.0	2.001835	Y
5	IC 410-213100/13	250.013496	543.967813	50.0	171994.0	2.175754	Y
6	ICIS 410-213100/12	500.026992	1091.590438	50.0	169884.0	2.183063	Y
7	IC 410-213100/11	1250.067479	2706.043072	50.0	162798.0	2.164718	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

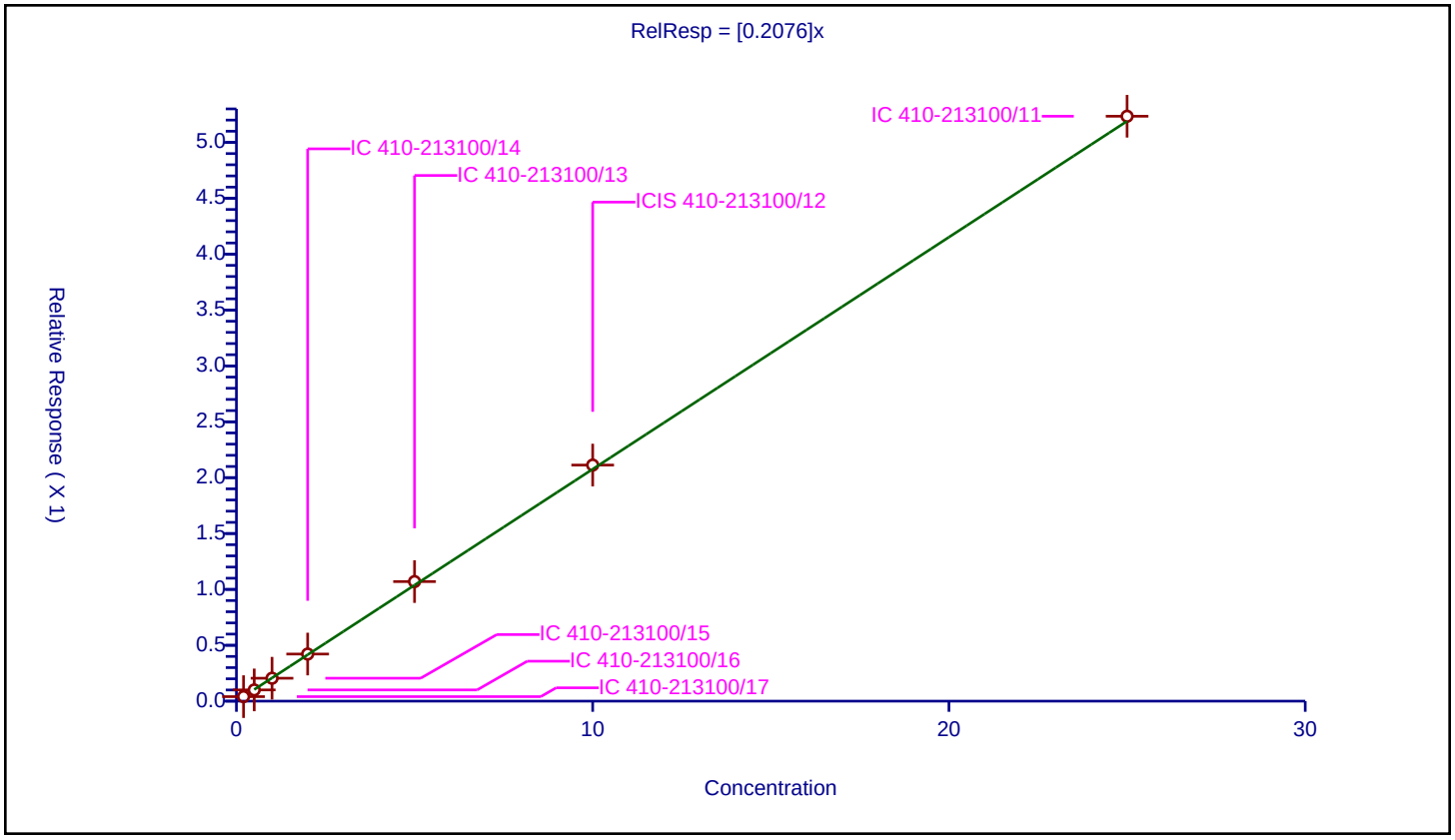
Curve Coefficients

Intercept:	0
Slope:	0.2076

Error Coefficients

Standard Error:	558000
Relative Standard Error:	2.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.040302	10.0	2322487.0	0.201508	Y
2	IC 410-213100/16	0.5	0.100569	10.0	2304387.0	0.201138	Y
3	IC 410-213100/15	1.0	0.20514	10.0	2305396.0	0.20514	Y
4	IC 410-213100/14	2.0	0.421584	10.0	2301914.0	0.210792	Y
5	IC 410-213100/13	5.0	1.070066	10.0	2337780.0	0.214013	Y
6	ICIS 410-213100/12	10.0	2.11266	10.0	2348513.0	0.211266	Y
7	IC 410-213100/11	25.0	5.234218	10.0	2378237.0	0.209369	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

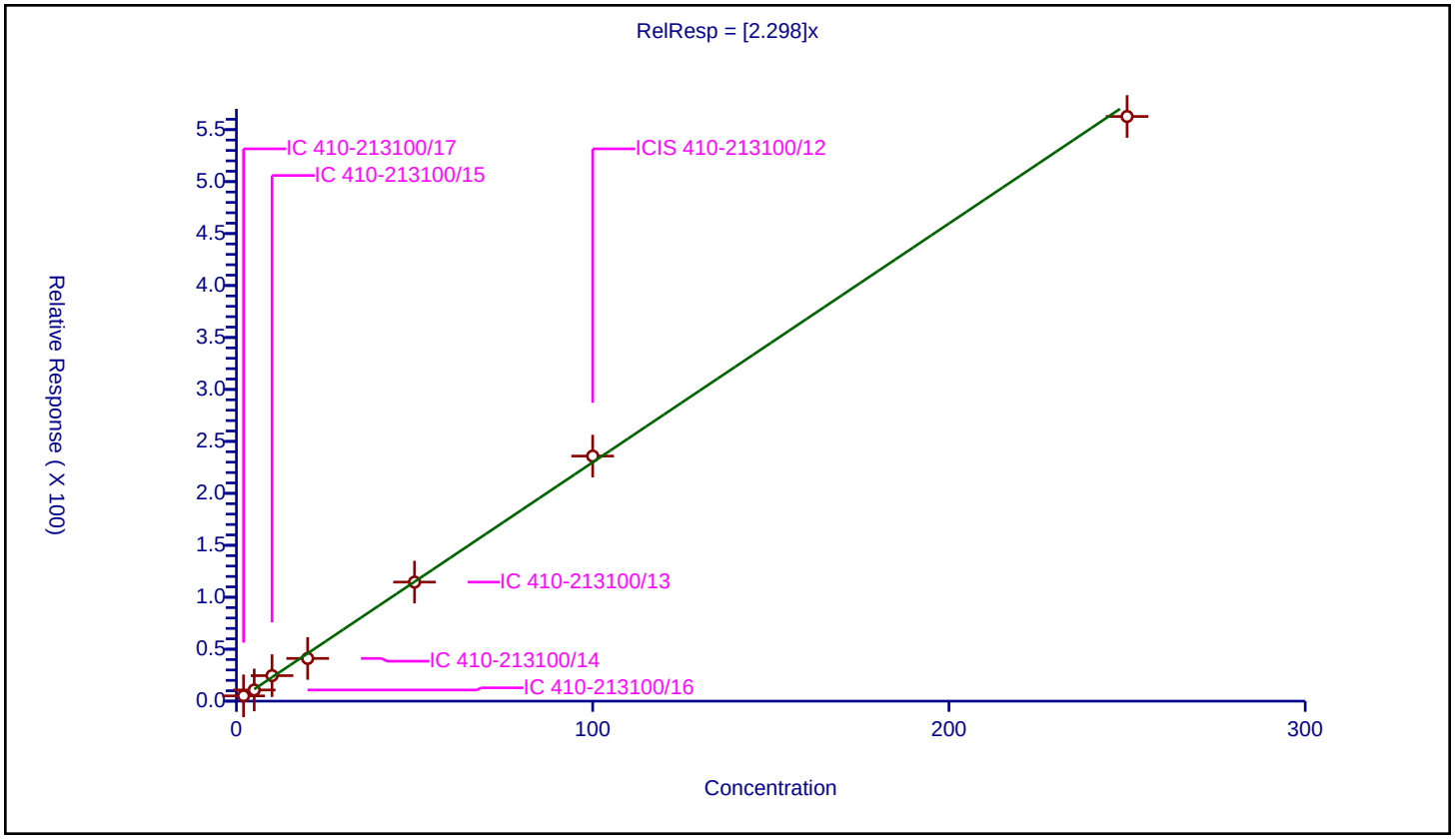
Curve Coefficients

Intercept:	0
Slope:	2.298

Error Coefficients

Standard Error:	835000
Relative Standard Error:	7.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	2.0	5.054024	50.0	169370.0	2.527012	Y
2	IC 410-213100/16	5.0	10.755249	50.0	173413.0	2.15105	Y
3	IC 410-213100/15	10.0	24.546461	50.0	174406.0	2.454646	Y
4	IC 410-213100/14	20.0	41.101747	50.0	178108.0	2.055087	Y
5	IC 410-213100/13	50.0	114.571439	50.0	171994.0	2.291429	Y
6	ICIS 410-213100/12	100.0	235.862412	50.0	169884.0	2.358624	Y
7	IC 410-213100/11	250.0	562.703473	50.0	162798.0	2.250814	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

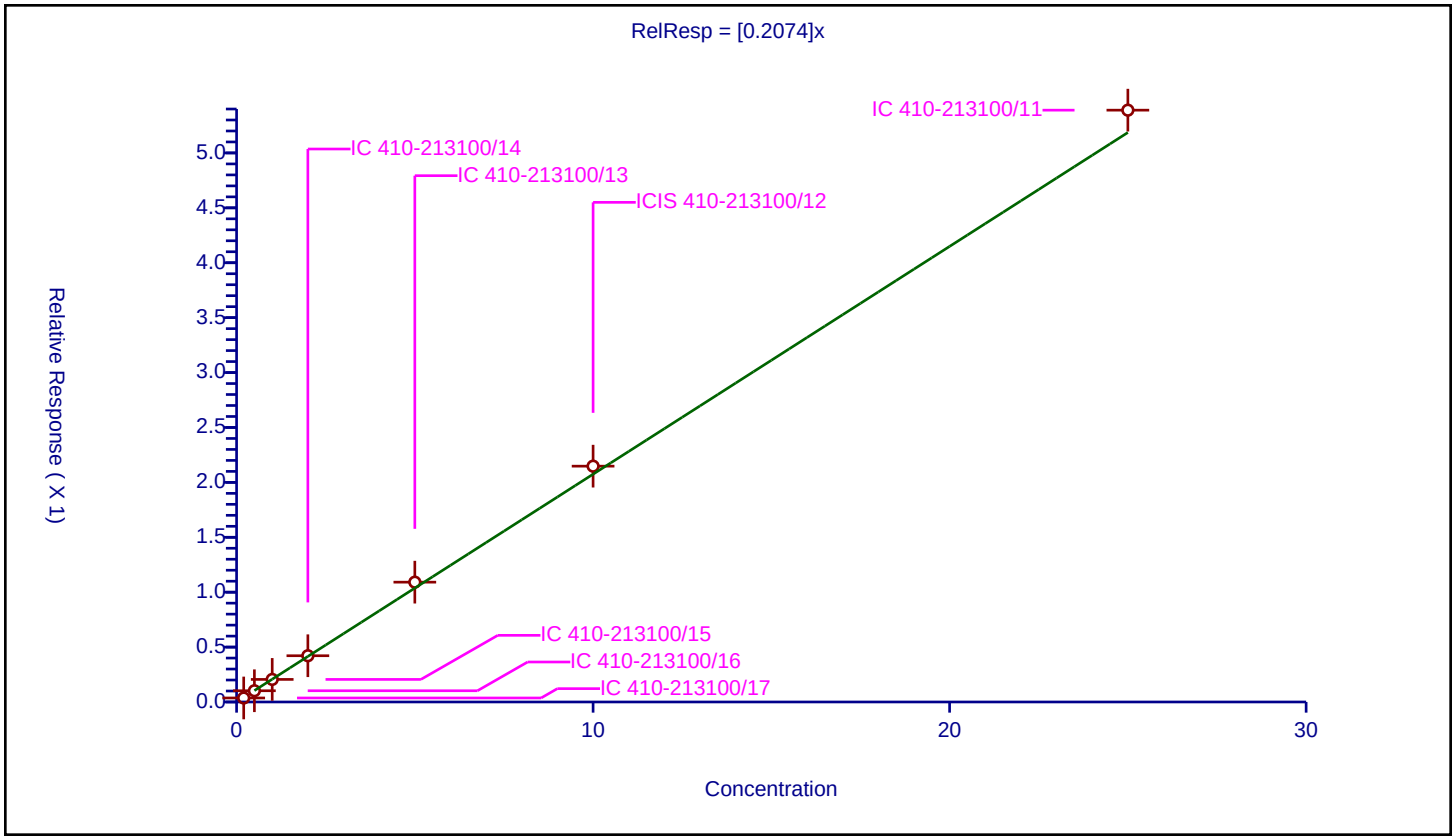
Curve Coefficients

Intercept:	0
Slope:	0.2074

Error Coefficients

Standard Error:	574000
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.036581	10.0	2322487.0	0.182907	Y
2	IC 410-213100/16	0.5	0.102261	10.0	2304387.0	0.204523	Y
3	IC 410-213100/15	1.0	0.205531	10.0	2305396.0	0.205531	Y
4	IC 410-213100/14	2.0	0.421106	10.0	2301914.0	0.210553	Y
5	IC 410-213100/13	5.0	1.09121	10.0	2337780.0	0.218242	Y
6	ICIS 410-213100/12	10.0	2.147606	10.0	2348513.0	0.214761	Y
7	IC 410-213100/11	25.0	5.389518	10.0	2378237.0	0.215581	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

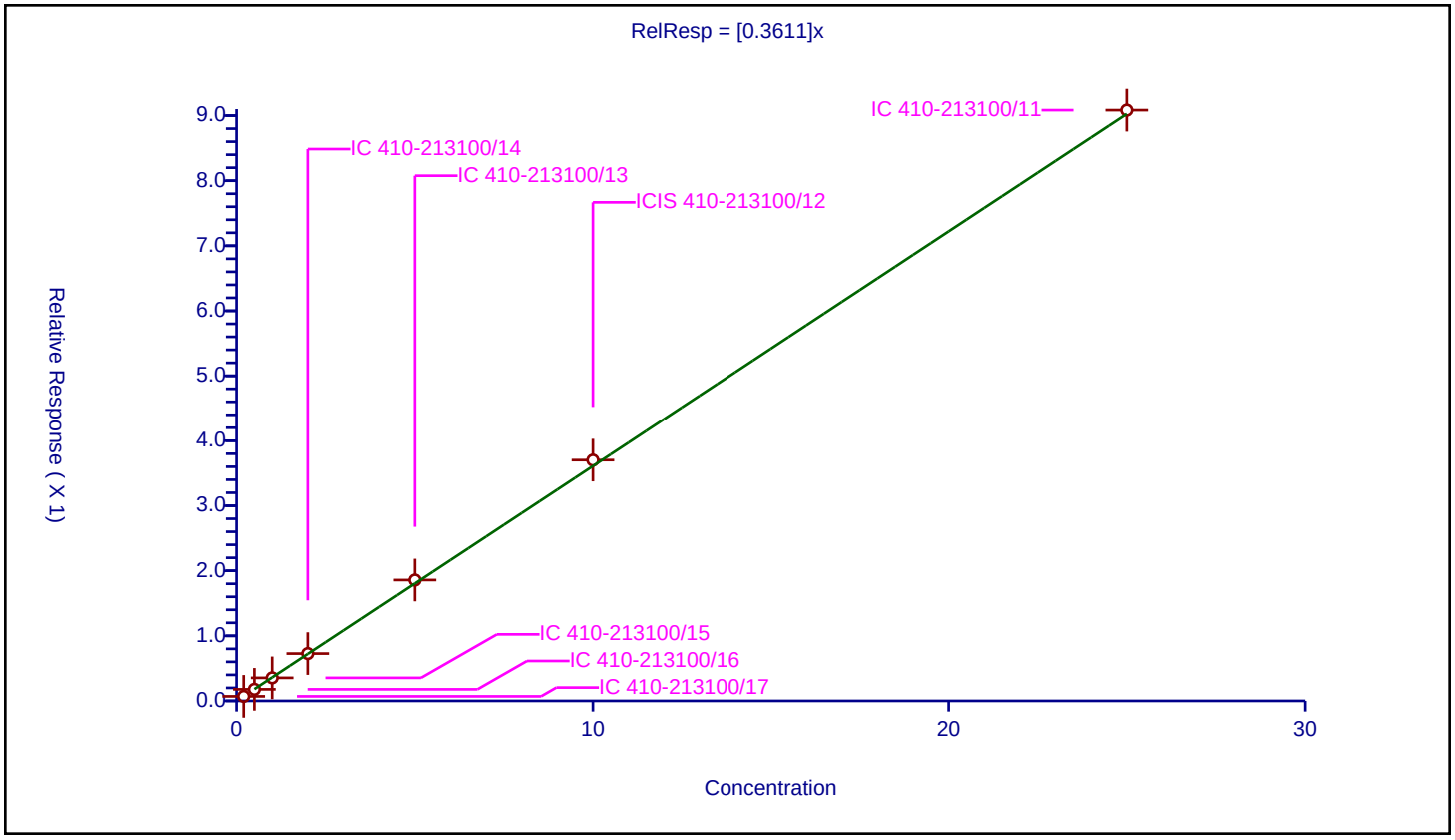
Curve Coefficients

Intercept:	0
Slope:	0.3611

Error Coefficients

Standard Error:	970000
Relative Standard Error:	2.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.069744	10.0	2322487.0	0.348721	Y
2	IC 410-213100/16	0.5	0.177652	10.0	2304387.0	0.355305	Y
3	IC 410-213100/15	1.0	0.354395	10.0	2305396.0	0.354395	Y
4	IC 410-213100/14	2.0	0.727508	10.0	2301914.0	0.363754	Y
5	IC 410-213100/13	5.0	1.858109	10.0	2337780.0	0.371622	Y
6	ICIS 410-213100/12	10.0	3.702364	10.0	2348513.0	0.370236	Y
7	IC 410-213100/11	25.0	9.08417	10.0	2378237.0	0.363367	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

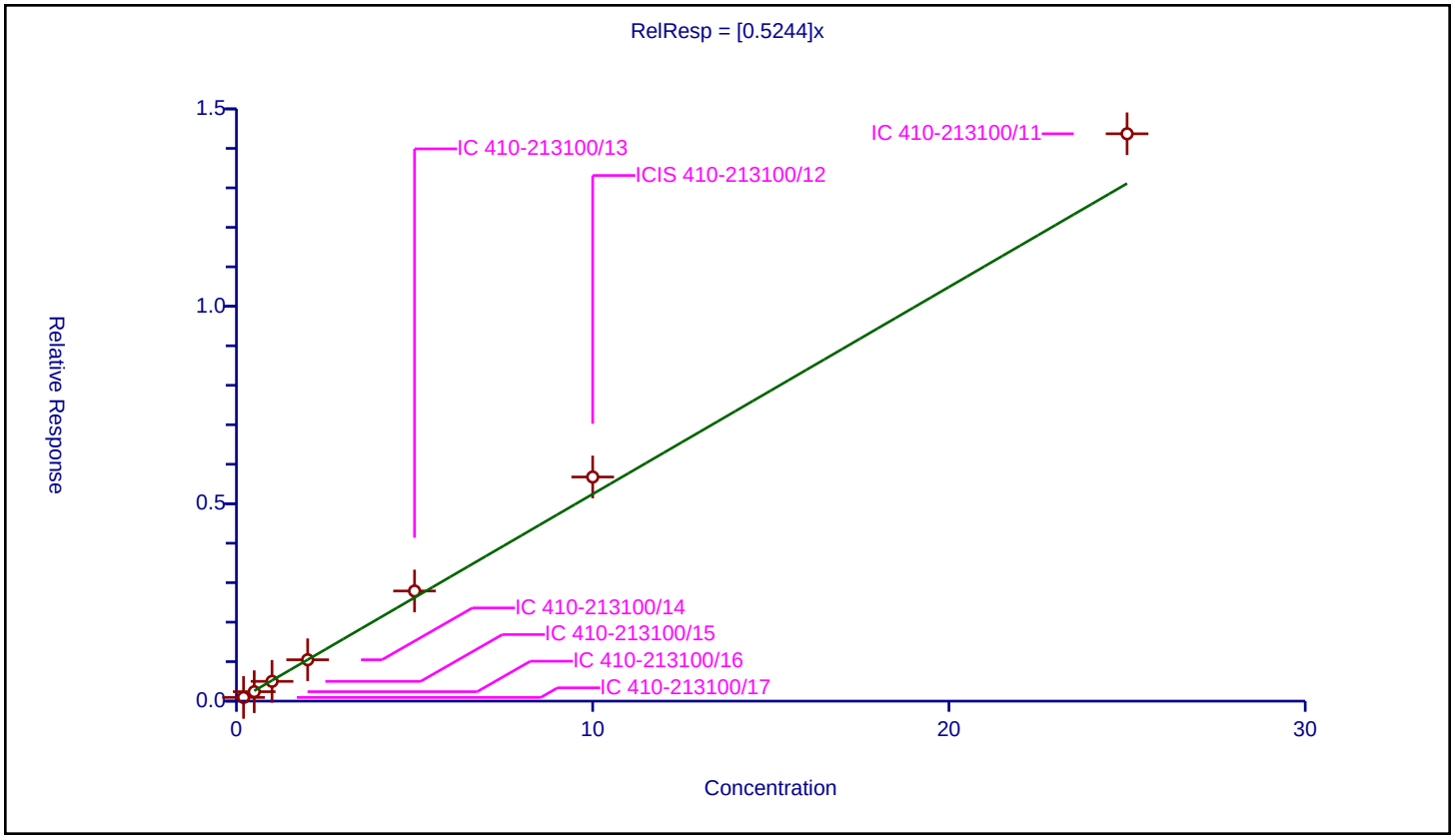
Curve Coefficients

Intercept:	0
Slope:	0.5244

Error Coefficients

Standard Error:	1530000
Relative Standard Error:	8.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.093576	10.0	2322487.0	0.467882	Y
2	IC 410-213100/16	0.5	0.239105	10.0	2304387.0	0.47821	Y
3	IC 410-213100/15	1.0	0.500691	10.0	2305396.0	0.500691	Y
4	IC 410-213100/14	2.0	1.047898	10.0	2301914.0	0.523949	Y
5	IC 410-213100/13	5.0	2.789557	10.0	2337780.0	0.557911	Y
6	ICIS 410-213100/12	10.0	5.676503	10.0	2348513.0	0.56765	Y
7	IC 410-213100/11	25.0	14.370204	10.0	2378237.0	0.574808	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

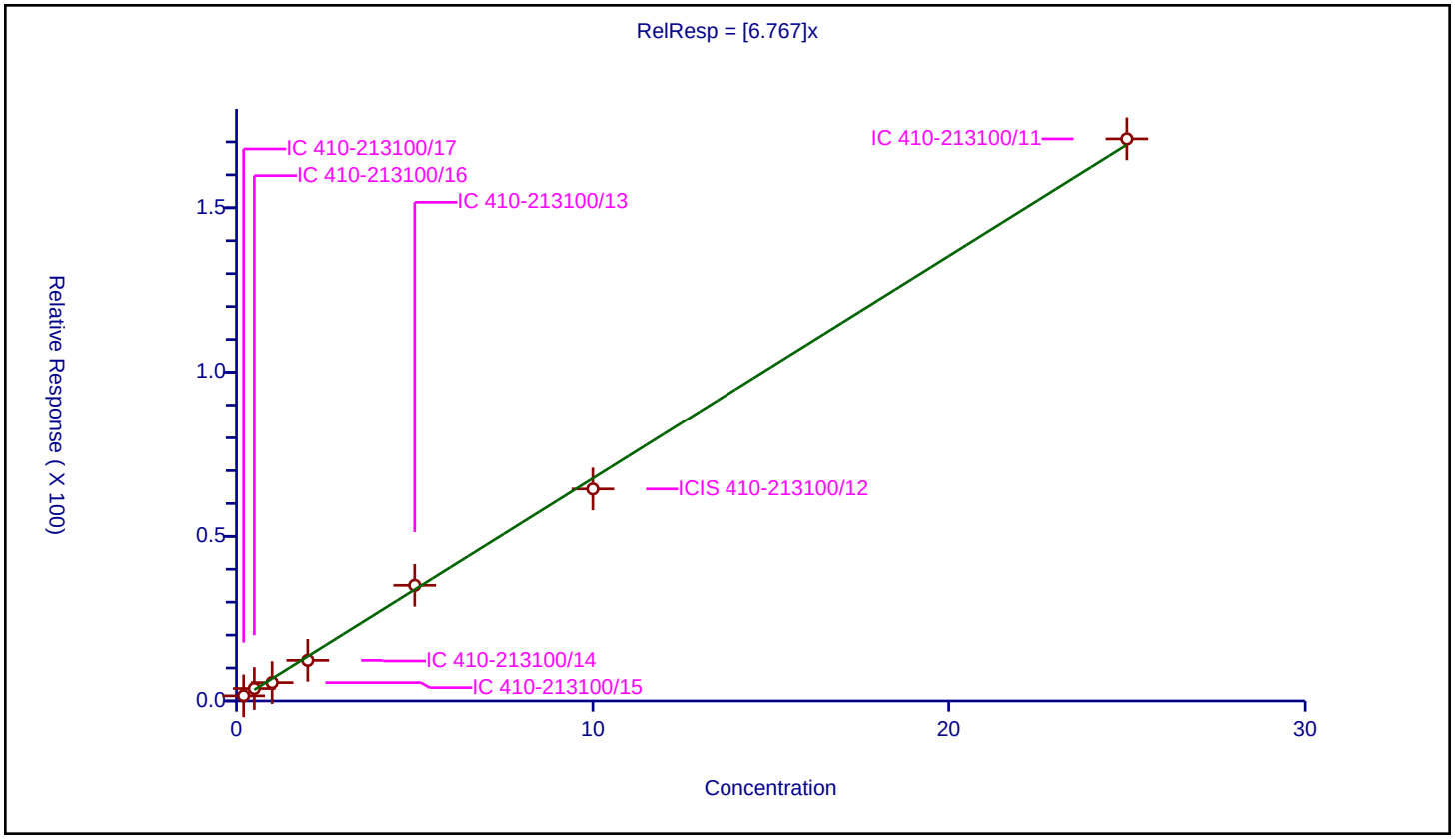
Curve Coefficients

Intercept:	0
Slope:	6.767

Error Coefficients

Standard Error:	250000
Relative Standard Error:	11.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	1.553109	50.0	169370.0	7.765543	Y
2	IC 410-213100/16	0.5	3.777975	50.0	173413.0	7.55595	Y
3	IC 410-213100/15	1.0	5.575783	50.0	174406.0	5.575783	Y
4	IC 410-213100/14	2.0	12.333809	50.0	178108.0	6.166904	Y
5	IC 410-213100/13	5.0	35.118958	50.0	171994.0	7.023792	Y
6	ICIS 410-213100/12	10.0	64.425726	50.0	169884.0	6.442573	Y
7	IC 410-213100/11	25.0	170.913648	50.0	162798.0	6.836546	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

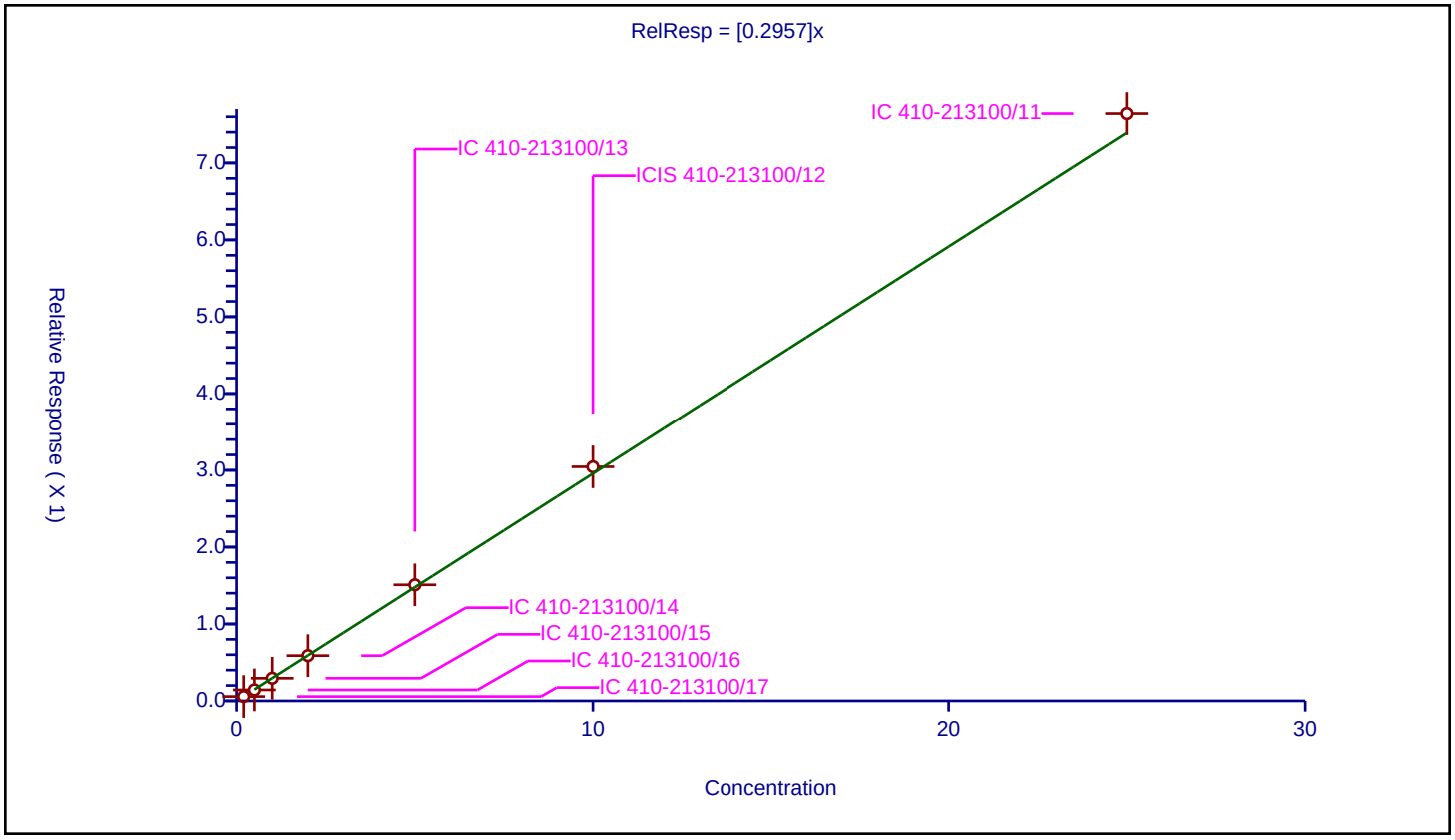
Curve Coefficients

Intercept:	0
Slope:	0.2957

Error Coefficients

Standard Error:	813000
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 410-213100/17	0.2	0.056754	10.0	2322487.0	0.283769	Y
2	IC 410-213100/16	0.5	0.142867	10.0	2304387.0	0.285733	Y
3	IC 410-213100/15	1.0	0.294071	10.0	2305396.0	0.294071	Y
4	IC 410-213100/14	2.0	0.588197	10.0	2301914.0	0.294099	Y
5	IC 410-213100/13	5.0	1.509133	10.0	2337780.0	0.301827	Y
6	ICIS 410-213100/12	10.0	3.045365	10.0	2348513.0	0.304537	Y
7	IC 410-213100/11	25.0	7.64116	10.0	2378237.0	0.305646	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

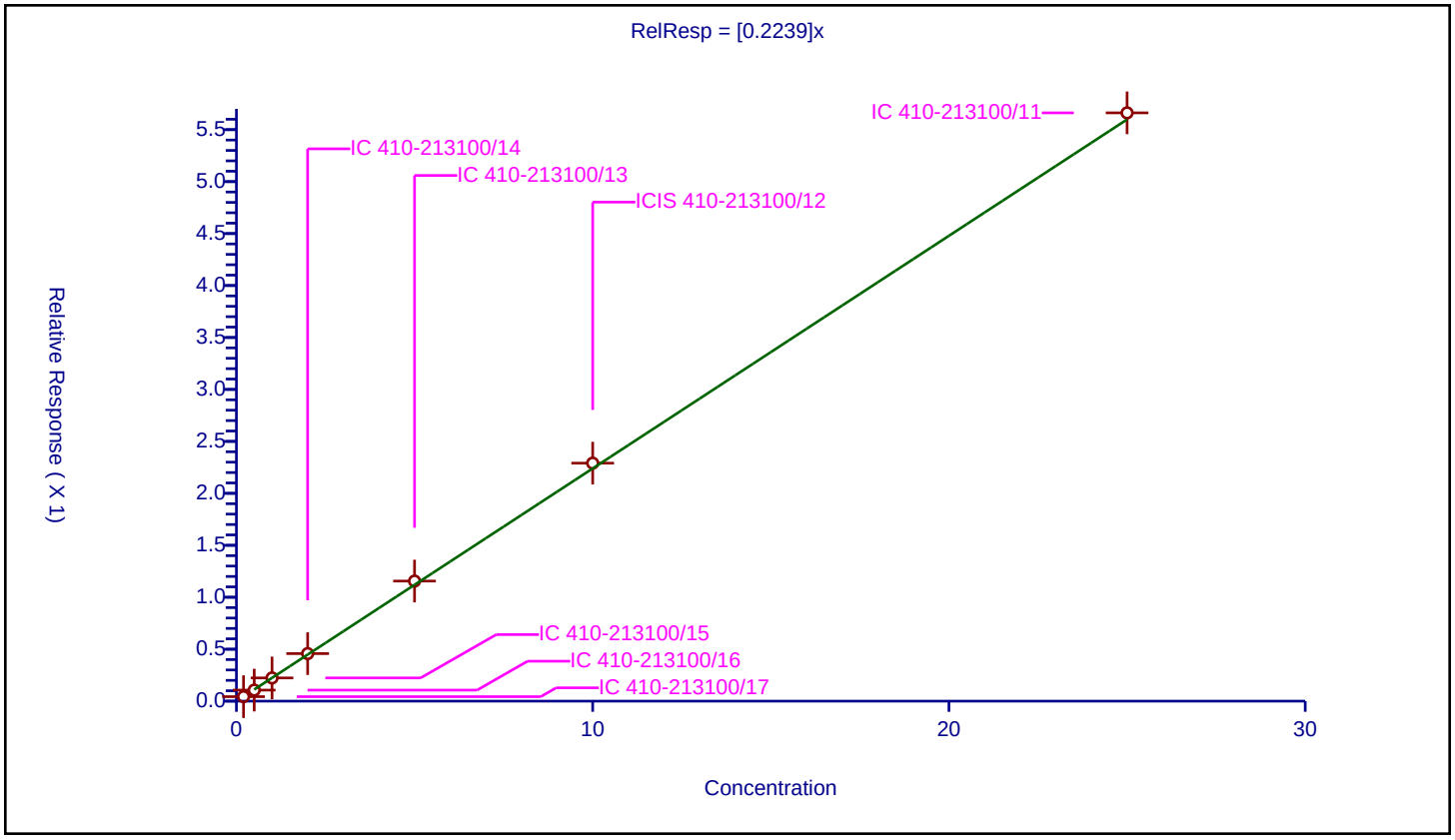
Curve Coefficients

Intercept:	0
Slope:	0.2239

Error Coefficients

Standard Error:	604000
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 410-213100/17	0.2	0.043247	10.0	2322487.0	0.216234	Y
2	IC 410-213100/16	0.5	0.106236	10.0	2304387.0	0.212473	Y
3	IC 410-213100/15	1.0	0.223315	10.0	2305396.0	0.223315	Y
4	IC 410-213100/14	2.0	0.457589	10.0	2301914.0	0.228794	Y
5	IC 410-213100/13	5.0	1.155737	10.0	2337780.0	0.231147	Y
6	ICIS 410-213100/12	10.0	2.290603	10.0	2348513.0	0.22906	Y
7	IC 410-213100/11	25.0	5.661715	10.0	2378237.0	0.226469	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

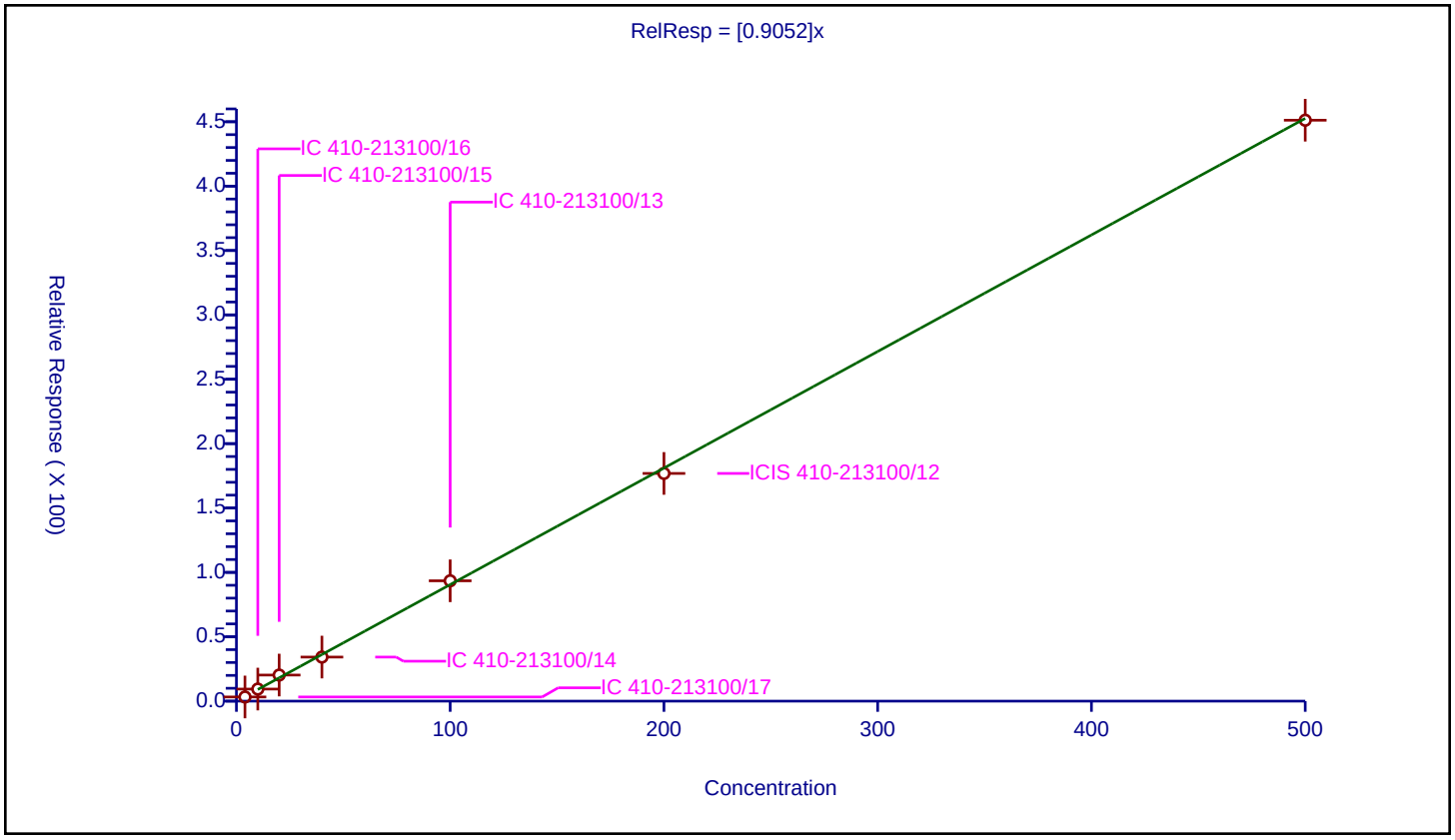
Curve Coefficients

Intercept:	0
Slope:	0.9052

Error Coefficients

Standard Error:	664000
Relative Standard Error:	7.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	4.0	3.232568	50.0	169370.0	0.808142	Y
2	IC 410-213100/16	10.0	9.383091	50.0	173413.0	0.938309	Y
3	IC 410-213100/15	20.0	20.257044	50.0	174406.0	1.012852	Y
4	IC 410-213100/14	40.0	34.233723	50.0	178108.0	0.855843	Y
5	IC 410-213100/13	100.0	93.464888	50.0	171994.0	0.934649	Y
6	ICIS 410-213100/12	200.0	176.869805	50.0	169884.0	0.884349	Y
7	IC 410-213100/11	500.0	451.205482	50.0	162798.0	0.902411	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

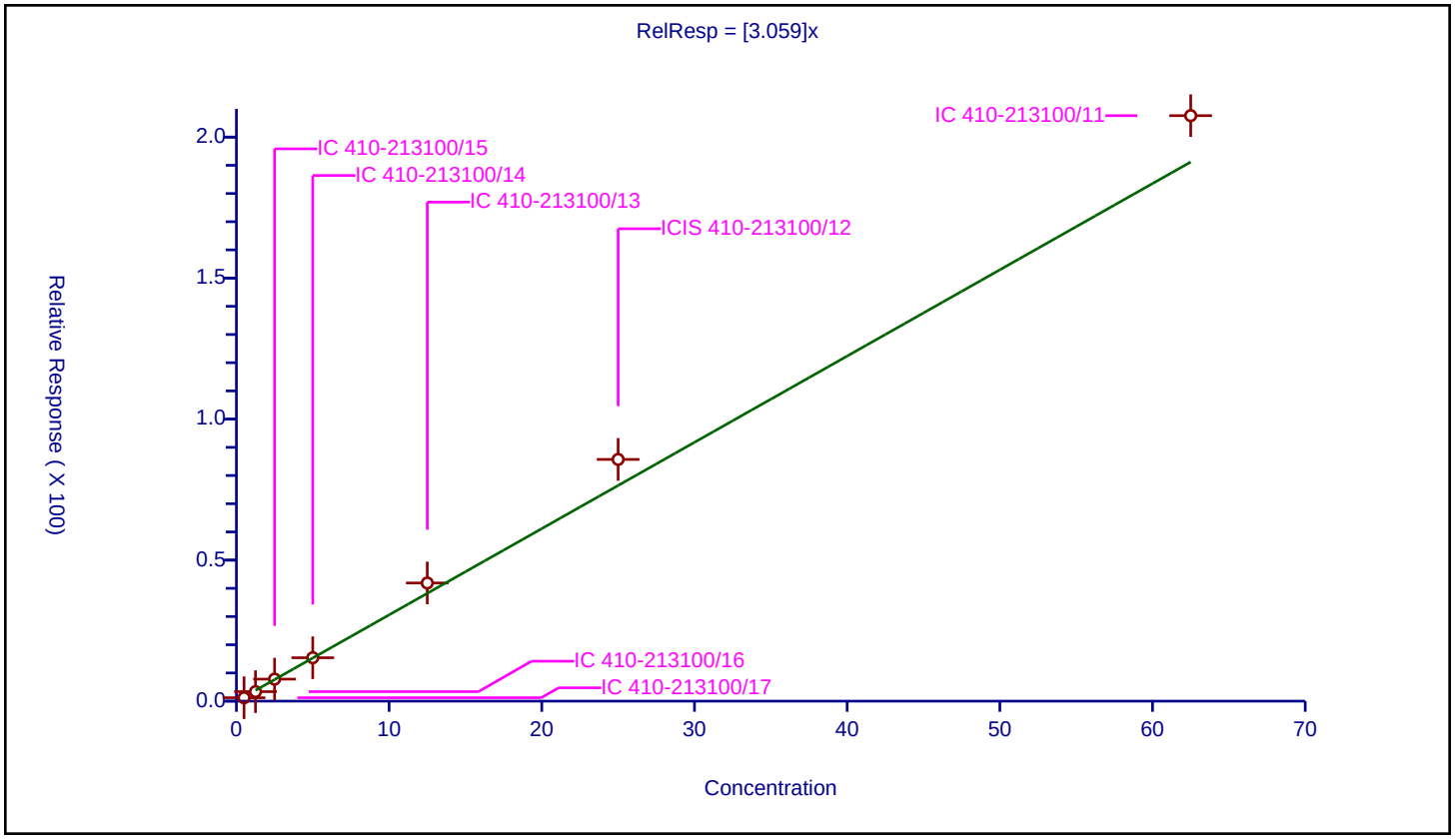
Curve Coefficients

Intercept:	0
Slope:	3.059

Error Coefficients

Standard Error:	307000
Relative Standard Error:	12.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.5	1.208892	50.0	169370.0	2.417784	Y
2	IC 410-213100/16	1.25	3.364223	50.0	173413.0	2.691378	Y
3	IC 410-213100/15	2.5	7.805351	50.0	174406.0	3.12214	Y
4	IC 410-213100/14	5.0	15.392346	50.0	178108.0	3.078469	Y
5	IC 410-213100/13	12.5	41.894194	50.0	171994.0	3.351536	Y
6	ICIS 410-213100/12	25.0	85.708778	50.0	169884.0	3.428351	Y
7	IC 410-213100/11	62.5	207.597145	50.0	162798.0	3.321554	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

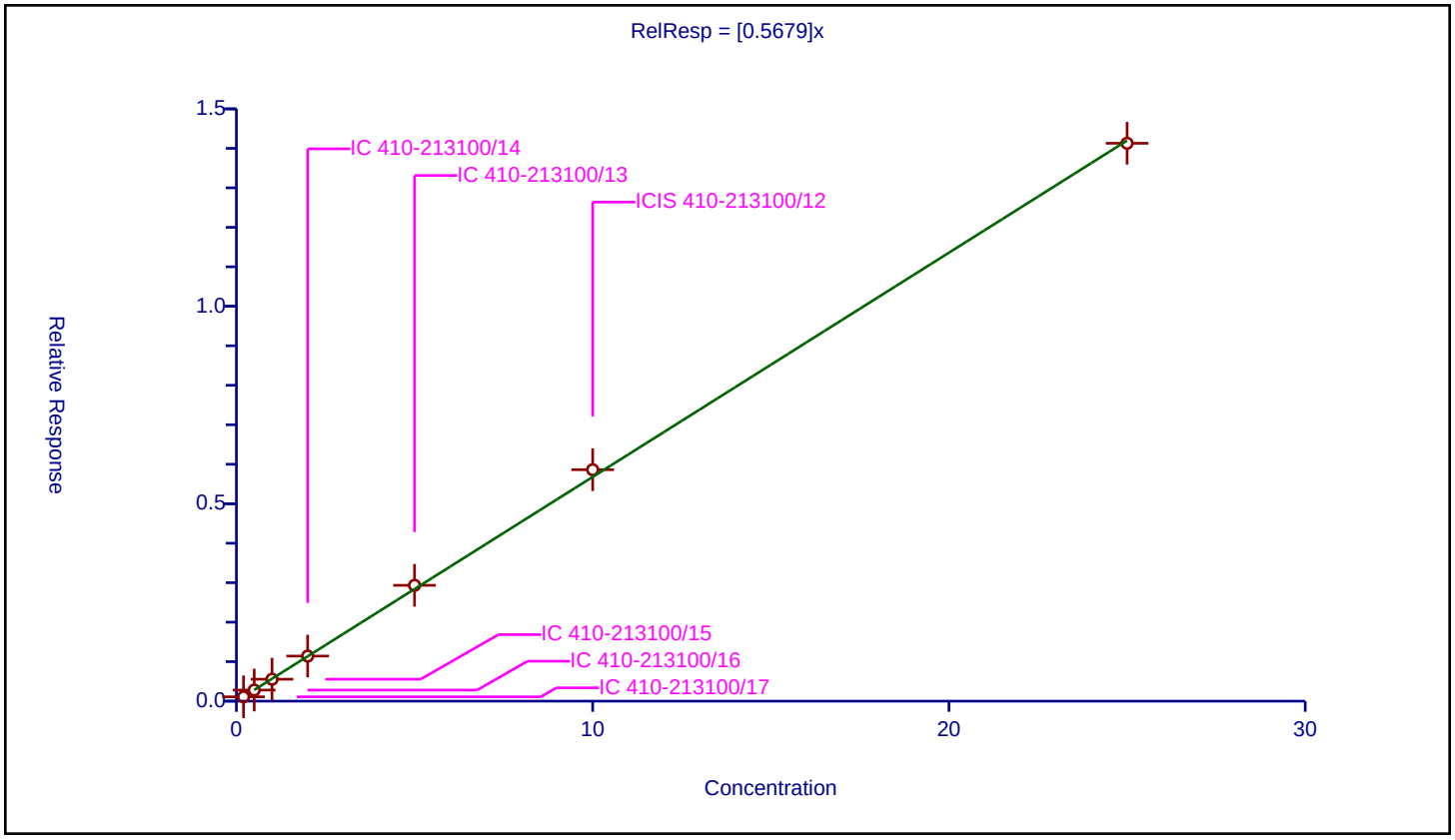
Curve Coefficients

Intercept:	0
Slope:	0.5679

Error Coefficients

Standard Error:	1510000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.109861	10.0	2322487.0	0.549303	Y
2	IC 410-213100/16	0.5	0.280804	10.0	2304387.0	0.561607	Y
3	IC 410-213100/15	1.0	0.555601	10.0	2305396.0	0.555601	Y
4	IC 410-213100/14	2.0	1.141576	10.0	2301914.0	0.570788	Y
5	IC 410-213100/13	5.0	2.933608	10.0	2337780.0	0.586722	Y
6	ICIS 410-213100/12	10.0	5.86185	10.0	2348513.0	0.586185	Y
7	IC 410-213100/11	25.0	14.129172	10.0	2378237.0	0.565167	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

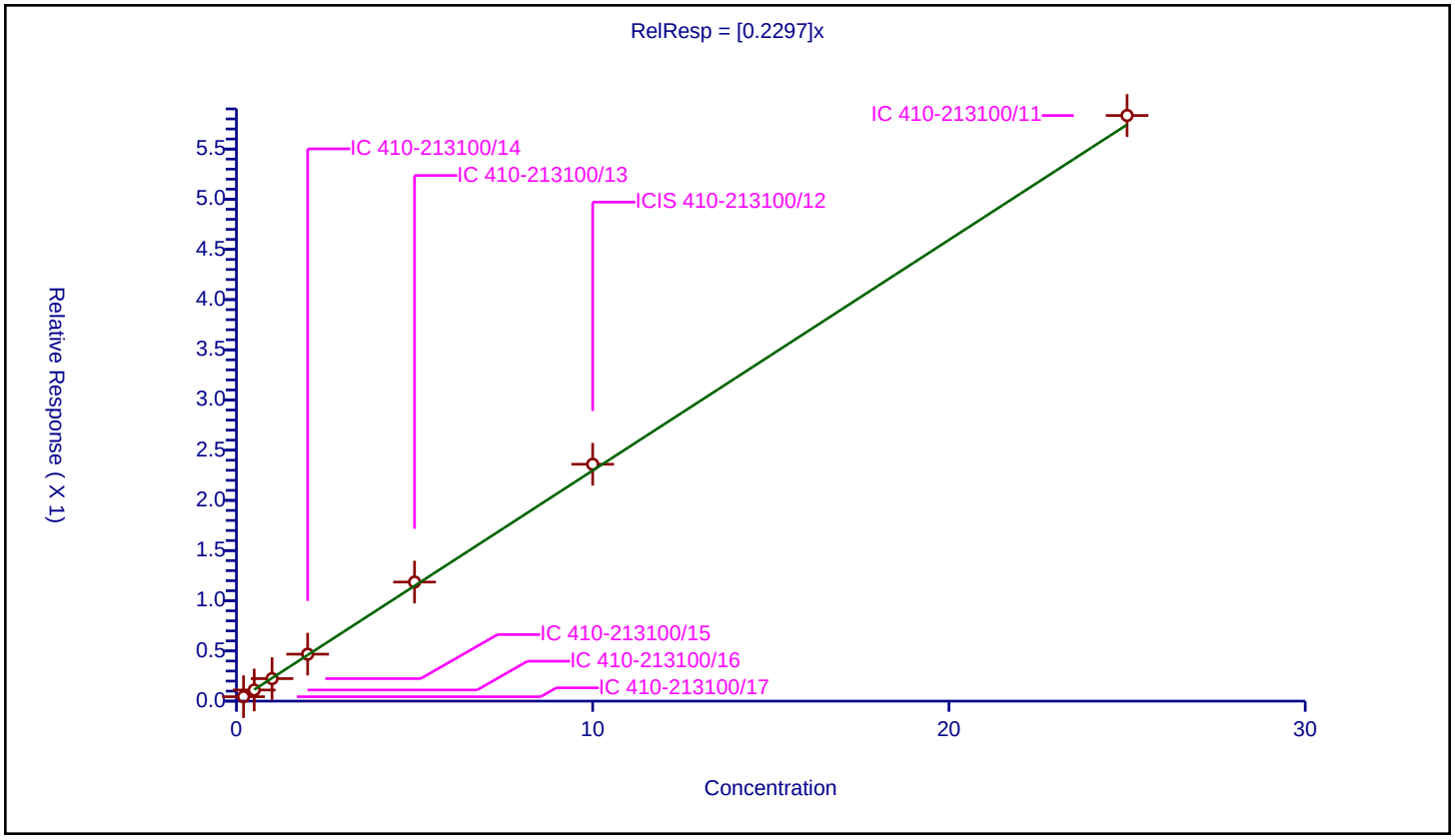
Curve Coefficients

Intercept:	0
Slope:	0.2297

Error Coefficients

Standard Error:	622000
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 410-213100/17	0.2	0.044216	10.0	2322487.0	0.221078	Y
2	IC 410-213100/16	0.5	0.111088	10.0	2304387.0	0.222176	Y
3	IC 410-213100/15	1.0	0.224243	10.0	2305396.0	0.224243	Y
4	IC 410-213100/14	2.0	0.467984	10.0	2301914.0	0.233992	Y
5	IC 410-213100/13	5.0	1.186335	10.0	2337780.0	0.237267	Y
6	ICIS 410-213100/12	10.0	2.36	10.0	2348513.0	0.236	Y
7	IC 410-213100/11	25.0	5.834133	10.0	2378237.0	0.233365	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

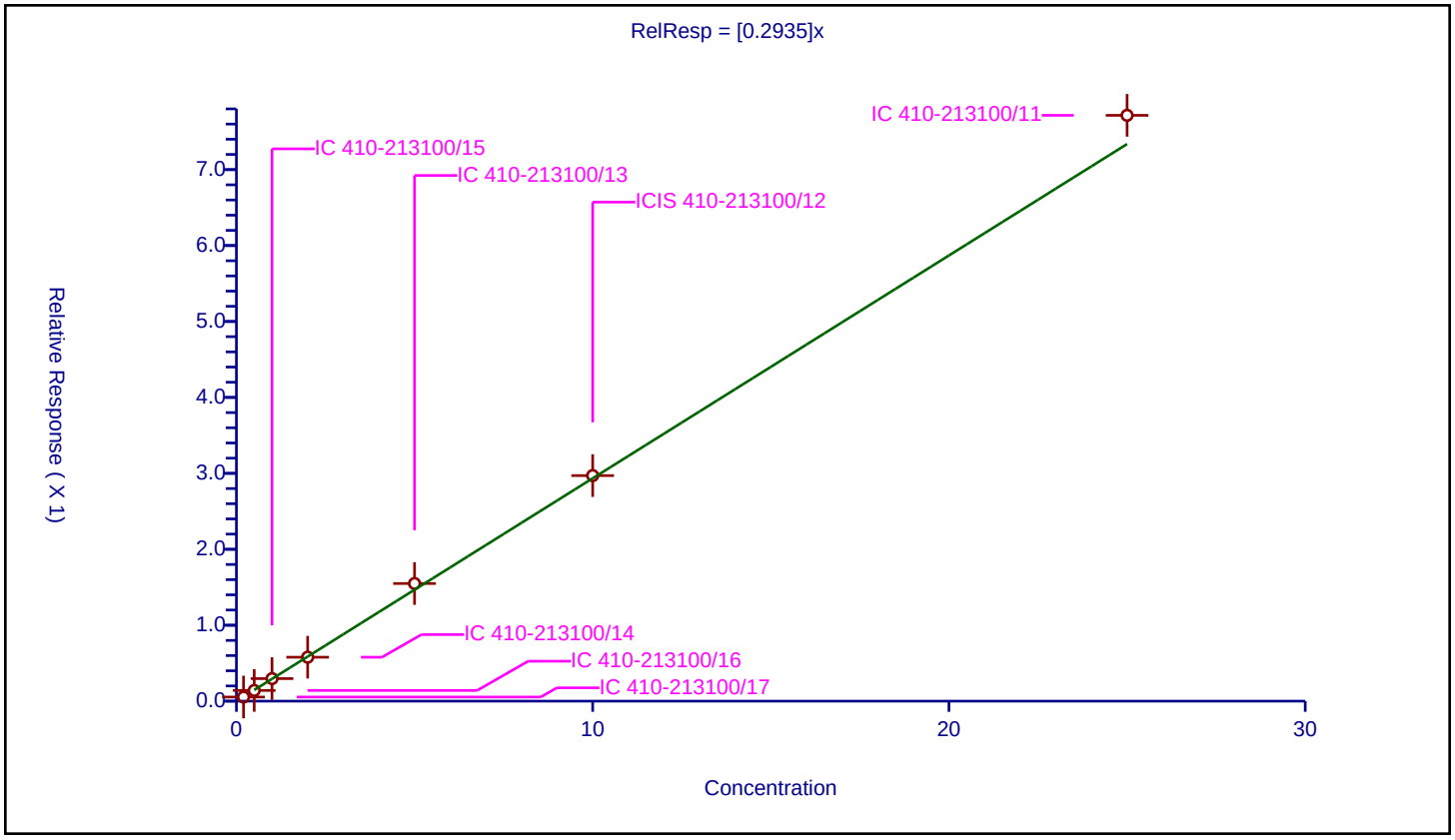
Curve Coefficients

Intercept:	0
Slope:	0.2935

Error Coefficients

Standard Error:	817000
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 410-213100/17	0.2	0.054179	10.0	2322487.0	0.270895	Y
2	IC 410-213100/16	0.5	0.140862	10.0	2304387.0	0.281724	Y
3	IC 410-213100/15	1.0	0.296838	10.0	2305396.0	0.296838	Y
4	IC 410-213100/14	2.0	0.578714	10.0	2301914.0	0.289357	Y
5	IC 410-213100/13	5.0	1.549367	10.0	2337780.0	0.309873	Y
6	ICIS 410-213100/12	10.0	2.970458	10.0	2348513.0	0.297046	Y
7	IC 410-213100/11	25.0	7.715169	10.0	2378237.0	0.308607	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

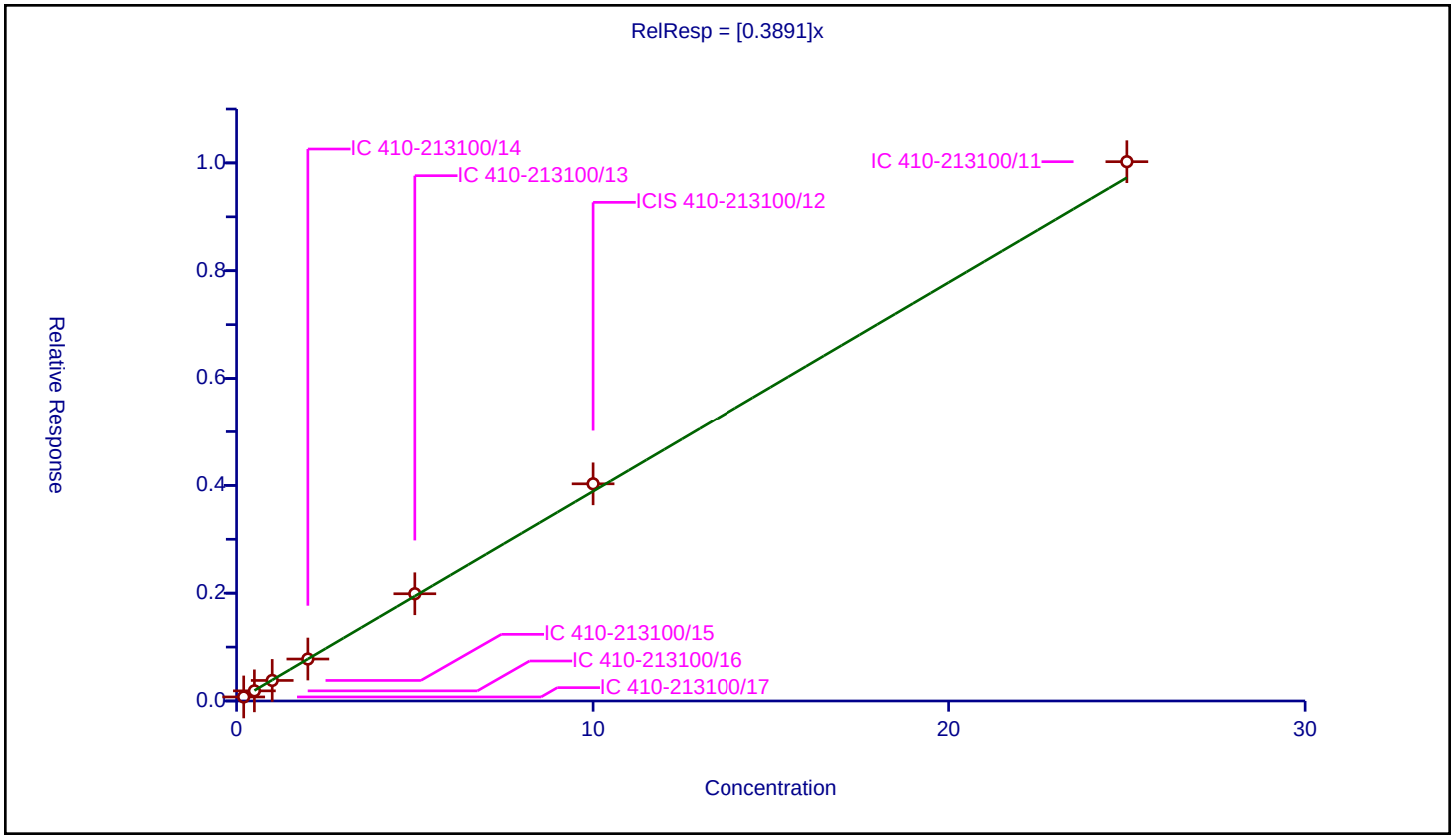
Curve Coefficients

Intercept:	0
Slope:	0.3891

Error Coefficients

Standard Error:	1070000
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 410-213100/17	0.2	0.075148	10.0	2322487.0	0.375739	Y
2	IC 410-213100/16	0.5	0.188011	10.0	2304387.0	0.376022	Y
3	IC 410-213100/15	1.0	0.381023	10.0	2305396.0	0.381023	Y
4	IC 410-213100/14	2.0	0.778422	10.0	2301914.0	0.389211	Y
5	IC 410-213100/13	5.0	1.989221	10.0	2337780.0	0.397844	Y
6	ICIS 410-213100/12	10.0	4.029081	10.0	2348513.0	0.402908	Y
7	IC 410-213100/11	25.0	10.023236	10.0	2378237.0	0.400929	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

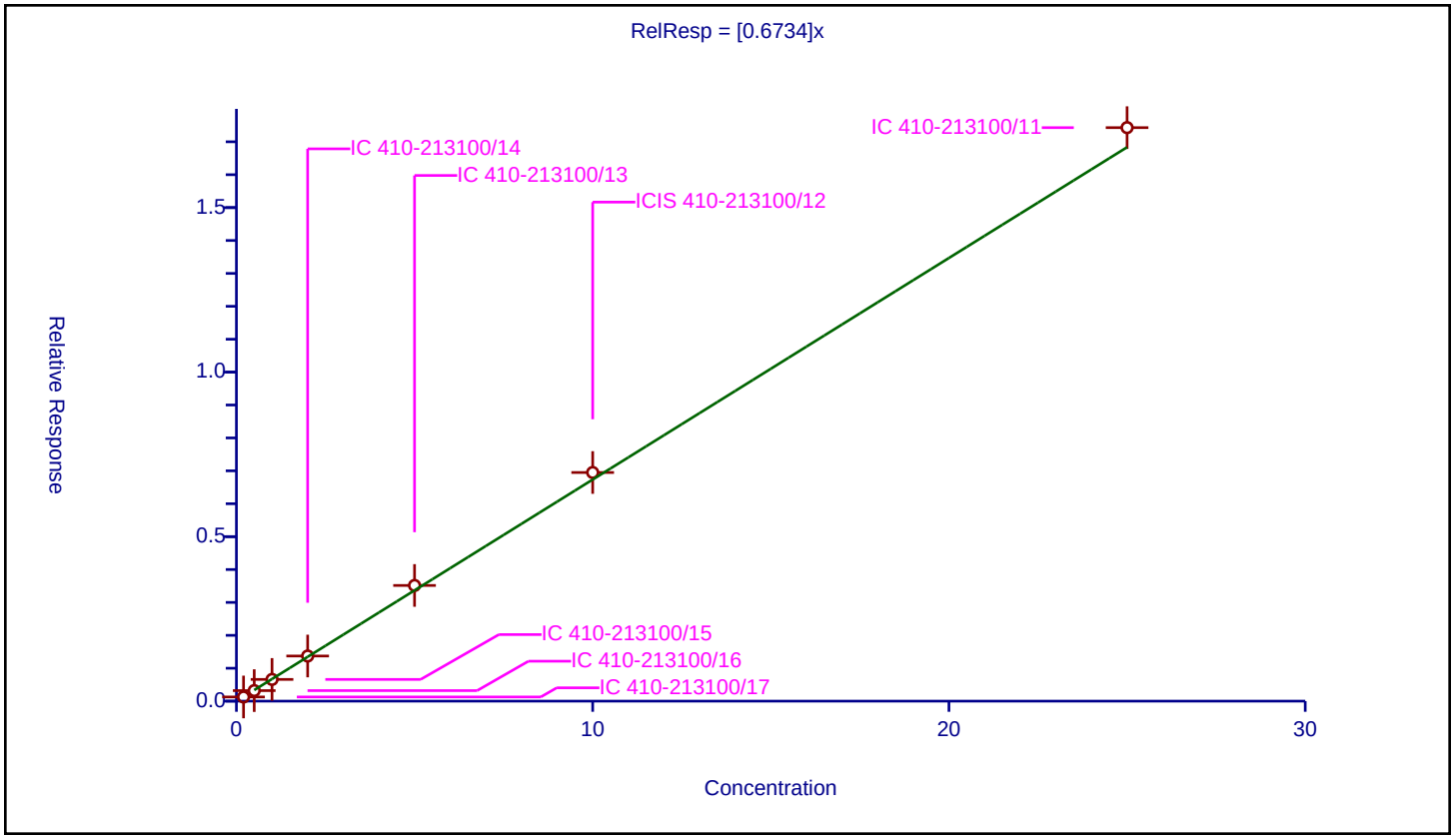
Curve Coefficients

Intercept:	0
Slope:	0.6734

Error Coefficients

Standard Error:	1860000
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 410-213100/17	0.2	0.126365	10.0	2322487.0	0.631823	Y
2	IC 410-213100/16	0.5	0.320424	10.0	2304387.0	0.640847	Y
3	IC 410-213100/15	1.0	0.660047	10.0	2305396.0	0.660047	Y
4	IC 410-213100/14	2.0	1.371902	10.0	2301914.0	0.685951	Y
5	IC 410-213100/13	5.0	3.515583	10.0	2337780.0	0.703117	Y
6	ICIS 410-213100/12	10.0	6.948959	10.0	2348513.0	0.694896	Y
7	IC 410-213100/11	25.0	17.430252	10.0	2378237.0	0.69721	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

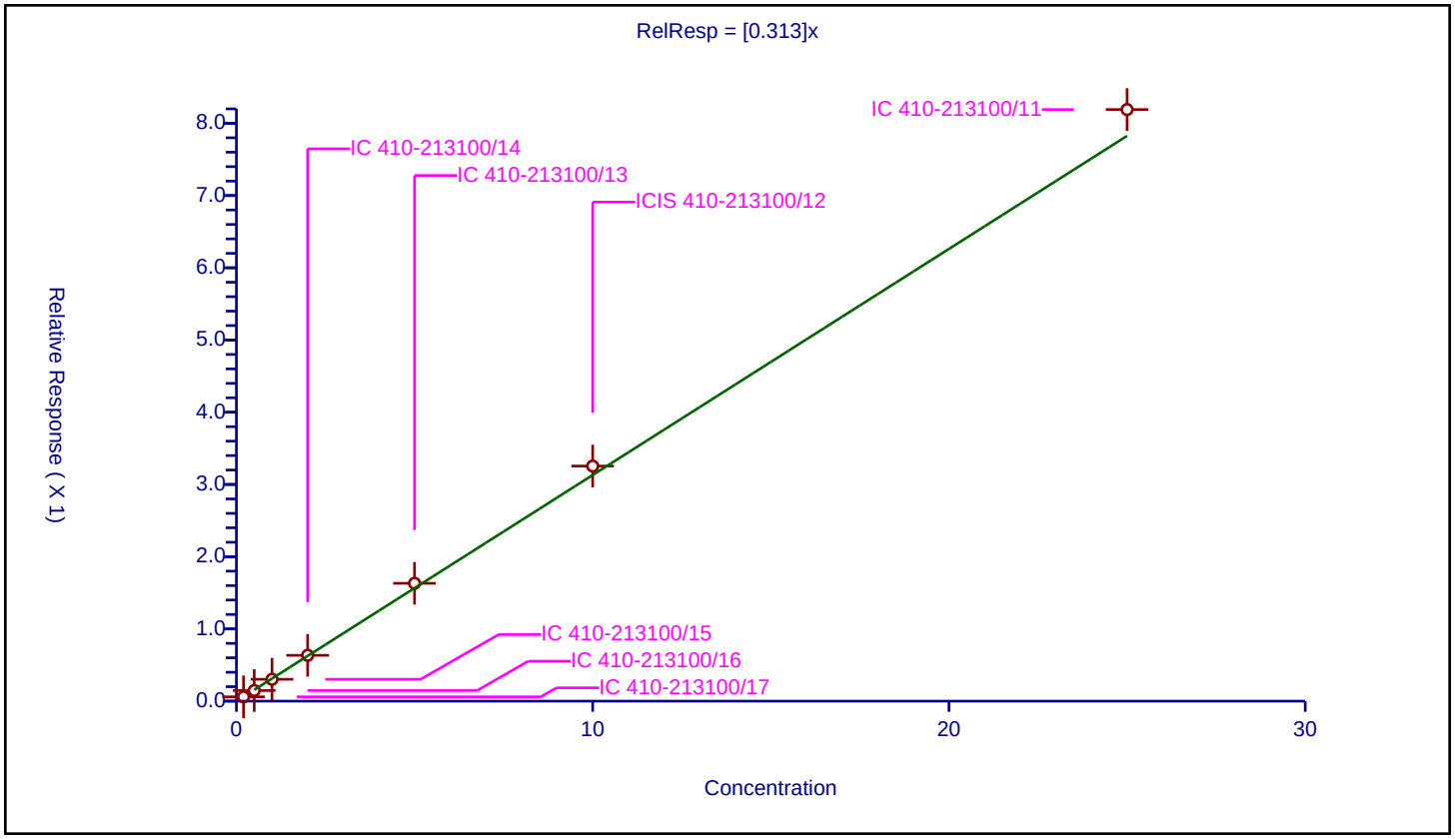
Curve Coefficients

Intercept:	0
Slope:	0.313

Error Coefficients

Standard Error:	871000
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 410-213100/17	0.2	0.059535	10.0	2322487.0	0.297677	Y
2	IC 410-213100/16	0.5	0.147111	10.0	2304387.0	0.294221	Y
3	IC 410-213100/15	1.0	0.302703	10.0	2305396.0	0.302703	Y
4	IC 410-213100/14	2.0	0.634528	10.0	2301914.0	0.317264	Y
5	IC 410-213100/13	5.0	1.631565	10.0	2337780.0	0.326313	Y
6	ICIS 410-213100/12	10.0	3.25506	10.0	2348513.0	0.325506	Y
7	IC 410-213100/11	25.0	8.190605	10.0	2378237.0	0.327624	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

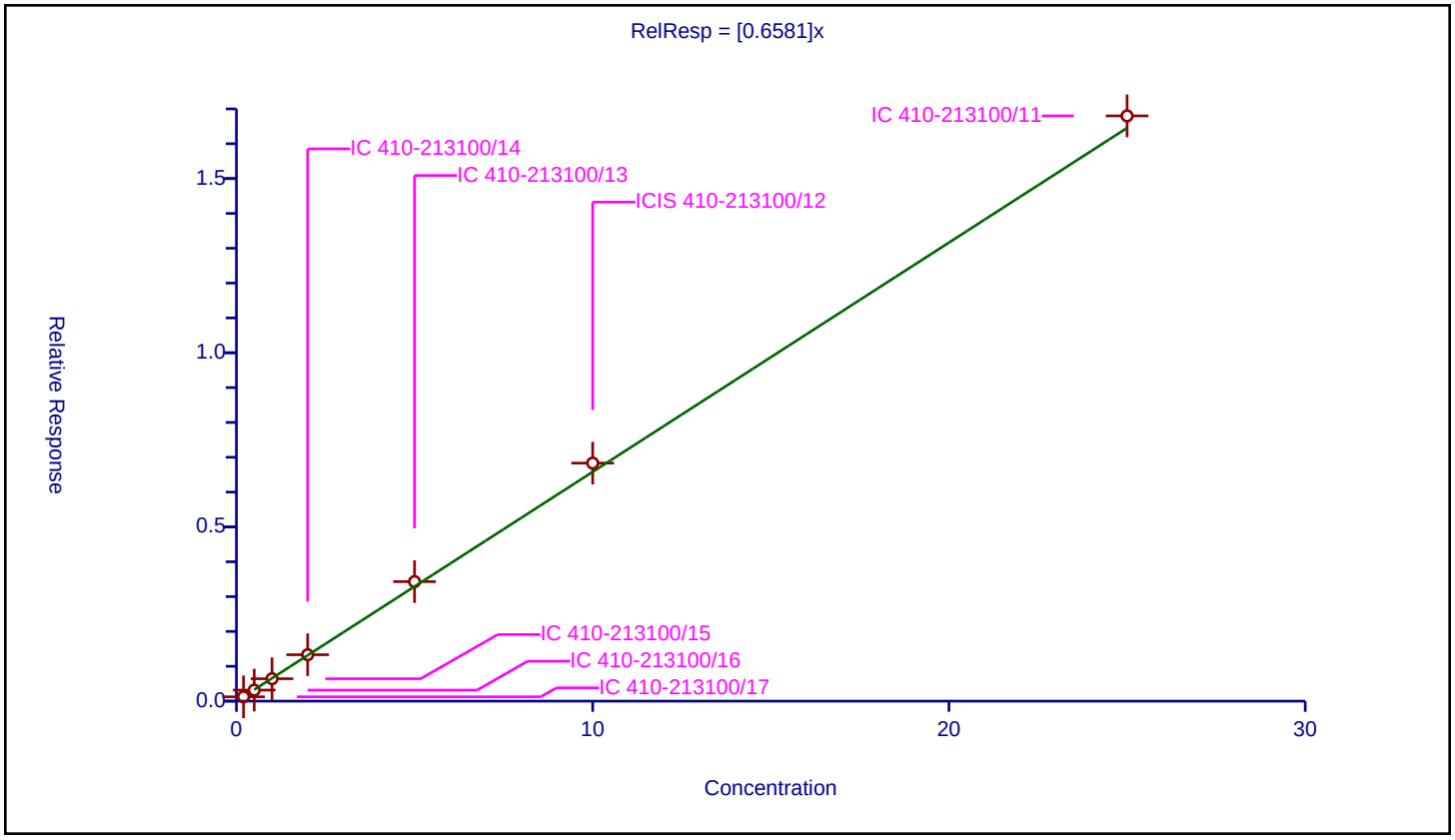
Curve Coefficients

Intercept:	0
Slope:	0.6581

Error Coefficients

Standard Error:	1790000
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 410-213100/17	0.2	0.124457	10.0	2322487.0	0.622286	Y
2	IC 410-213100/16	0.5	0.316839	10.0	2304387.0	0.633678	Y
3	IC 410-213100/15	1.0	0.643456	10.0	2305396.0	0.643456	Y
4	IC 410-213100/14	2.0	1.33187	10.0	2301914.0	0.665935	Y
5	IC 410-213100/13	5.0	3.430626	10.0	2337780.0	0.686125	Y
6	ICIS 410-213100/12	10.0	6.832945	10.0	2348513.0	0.683294	Y
7	IC 410-213100/11	25.0	16.798801	10.0	2378237.0	0.671952	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

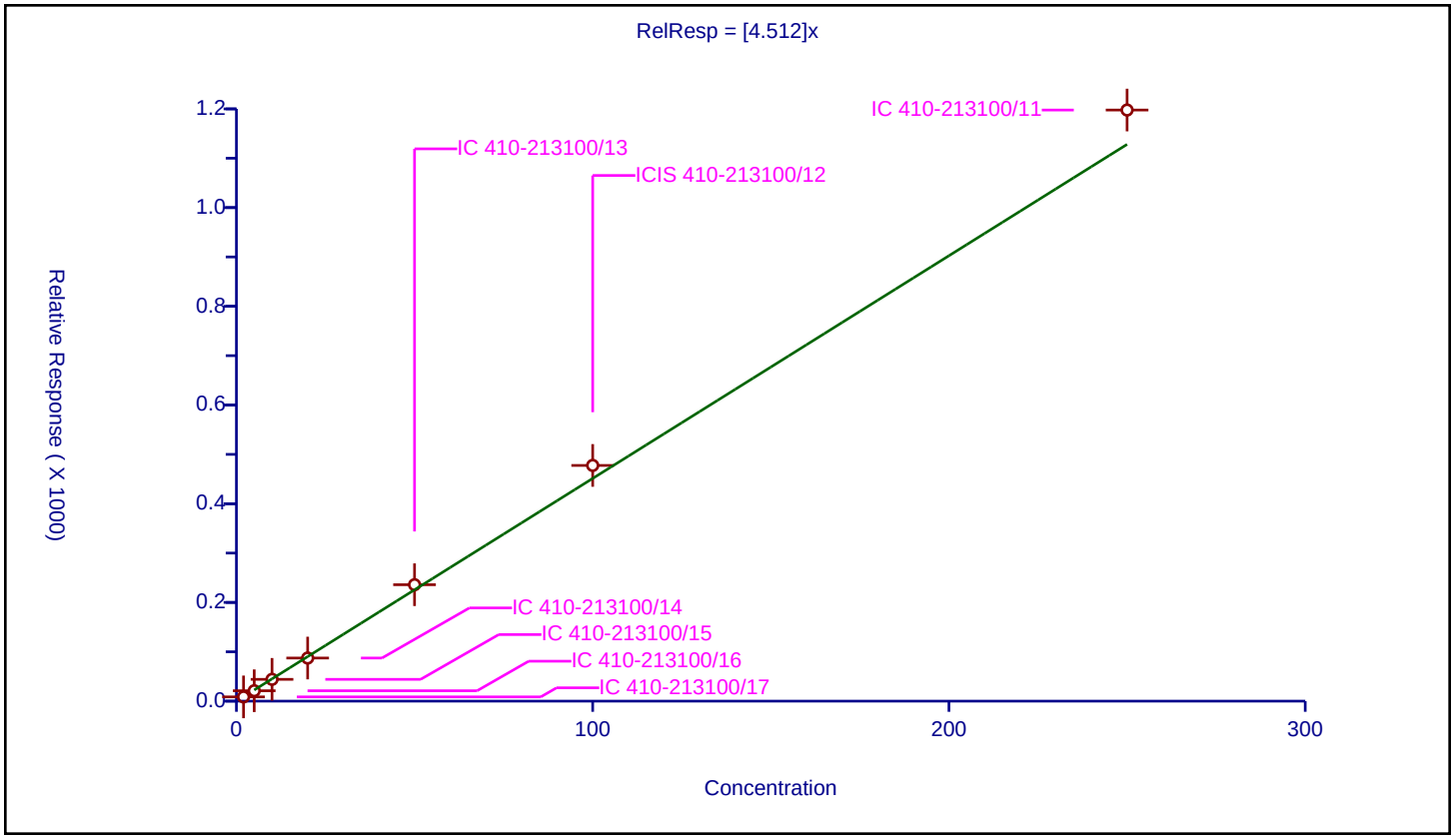
Curve Coefficients

Intercept:	0
Slope:	4.512

Error Coefficients

Standard Error:	1760000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	2.0	8.6128	50.0	169370.0	4.3064	Y
2	IC 410-213100/16	5.0	21.079446	50.0	173413.0	4.215889	Y
3	IC 410-213100/15	10.0	44.14785	50.0	174406.0	4.414785	Y
4	IC 410-213100/14	20.0	87.31893	50.0	178108.0	4.365947	Y
5	IC 410-213100/13	50.0	235.885263	50.0	171994.0	4.717705	Y
6	ICIS 410-213100/12	100.0	477.568812	50.0	169884.0	4.775688	Y
7	IC 410-213100/11	250.0	1197.70206	50.0	162798.0	4.790808	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

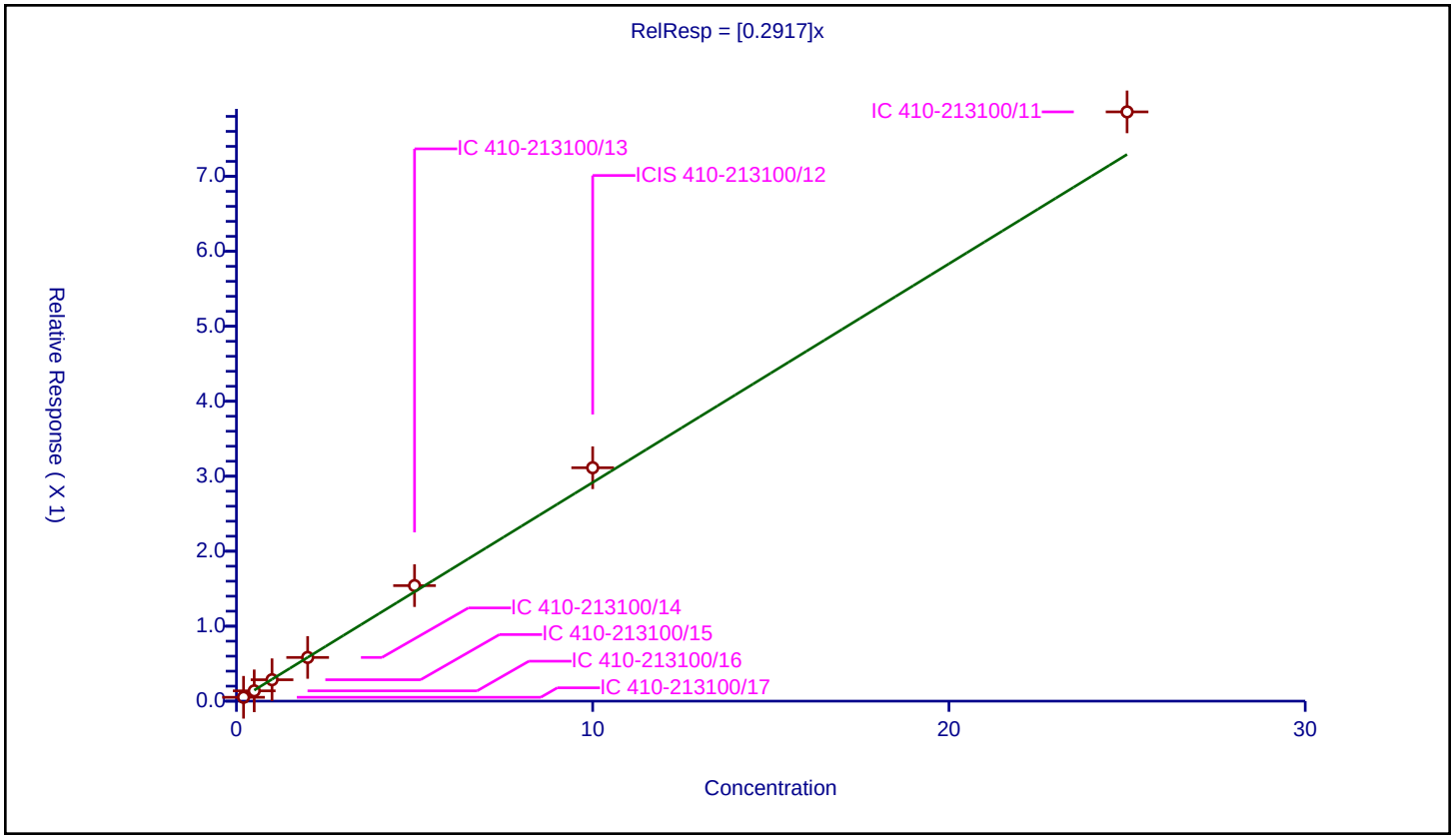
Curve Coefficients

Intercept:	0
Slope:	0.2917

Error Coefficients

Standard Error:	835000
Relative Standard Error:	7.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.051251	10.0	2322487.0	0.256255	Y
2	IC 410-213100/16	0.5	0.137377	10.0	2304387.0	0.274754	Y
3	IC 410-213100/15	1.0	0.285587	10.0	2305396.0	0.285587	Y
4	IC 410-213100/14	2.0	0.582819	10.0	2301914.0	0.29141	Y
5	IC 410-213100/13	5.0	1.54106	10.0	2337780.0	0.308212	Y
6	ICIS 410-213100/12	10.0	3.113396	10.0	2348513.0	0.31134	Y
7	IC 410-213100/11	25.0	7.860272	10.0	2378237.0	0.314411	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

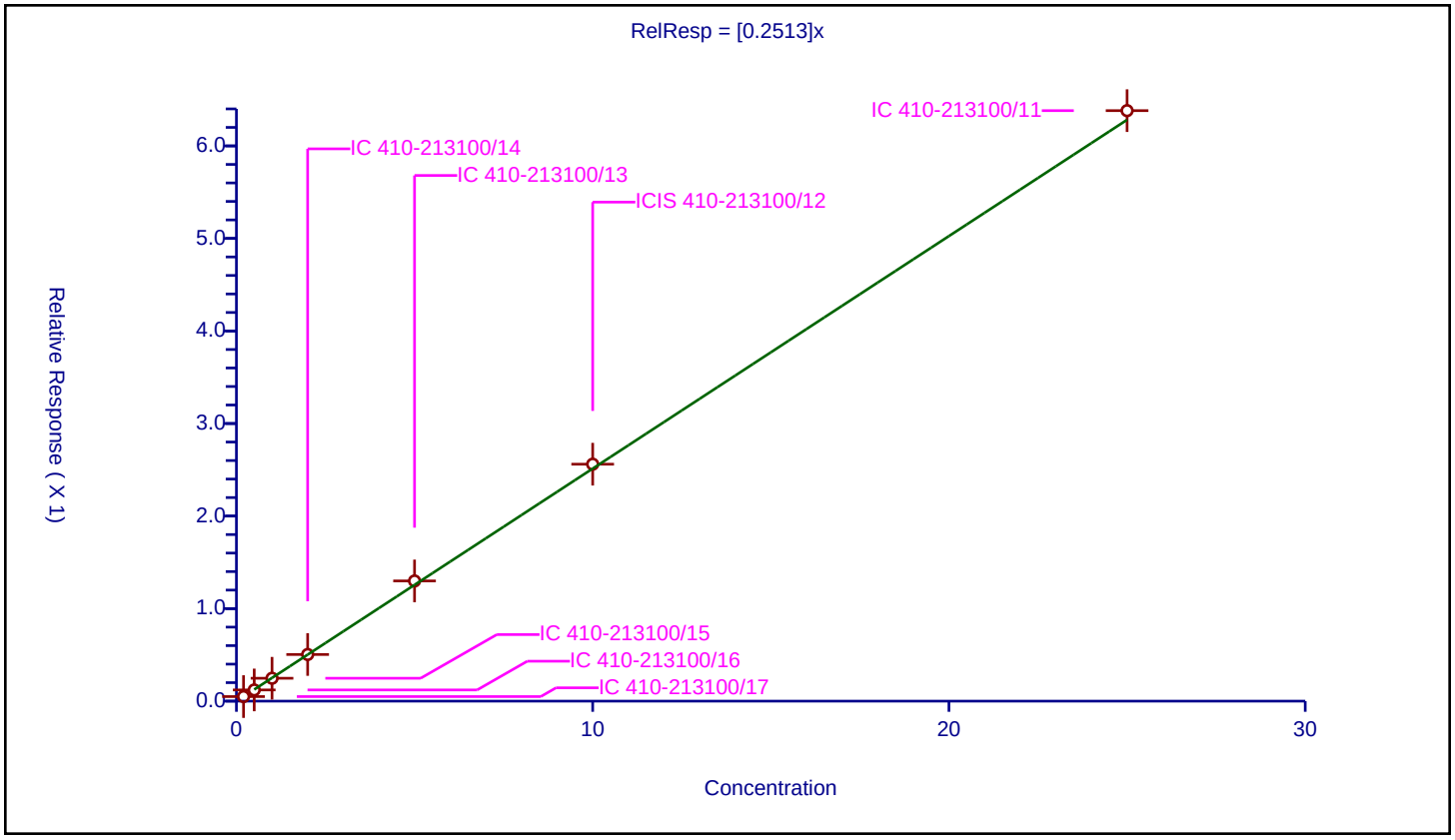
Curve Coefficients

Intercept:	0
Slope:	0.2513

Error Coefficients

Standard Error:	680000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.049301	10.0	2322487.0	0.246503	Y
2	IC 410-213100/16	0.5	0.120987	10.0	2304387.0	0.241973	Y
3	IC 410-213100/15	1.0	0.247376	10.0	2305396.0	0.247376	Y
4	IC 410-213100/14	2.0	0.50402	10.0	2301914.0	0.25201	Y
5	IC 410-213100/13	5.0	1.298908	10.0	2337780.0	0.259782	Y
6	ICIS 410-213100/12	10.0	2.560659	10.0	2348513.0	0.256066	Y
7	IC 410-213100/11	25.0	6.381139	10.0	2378237.0	0.255246	Y



Calibration / Propionitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

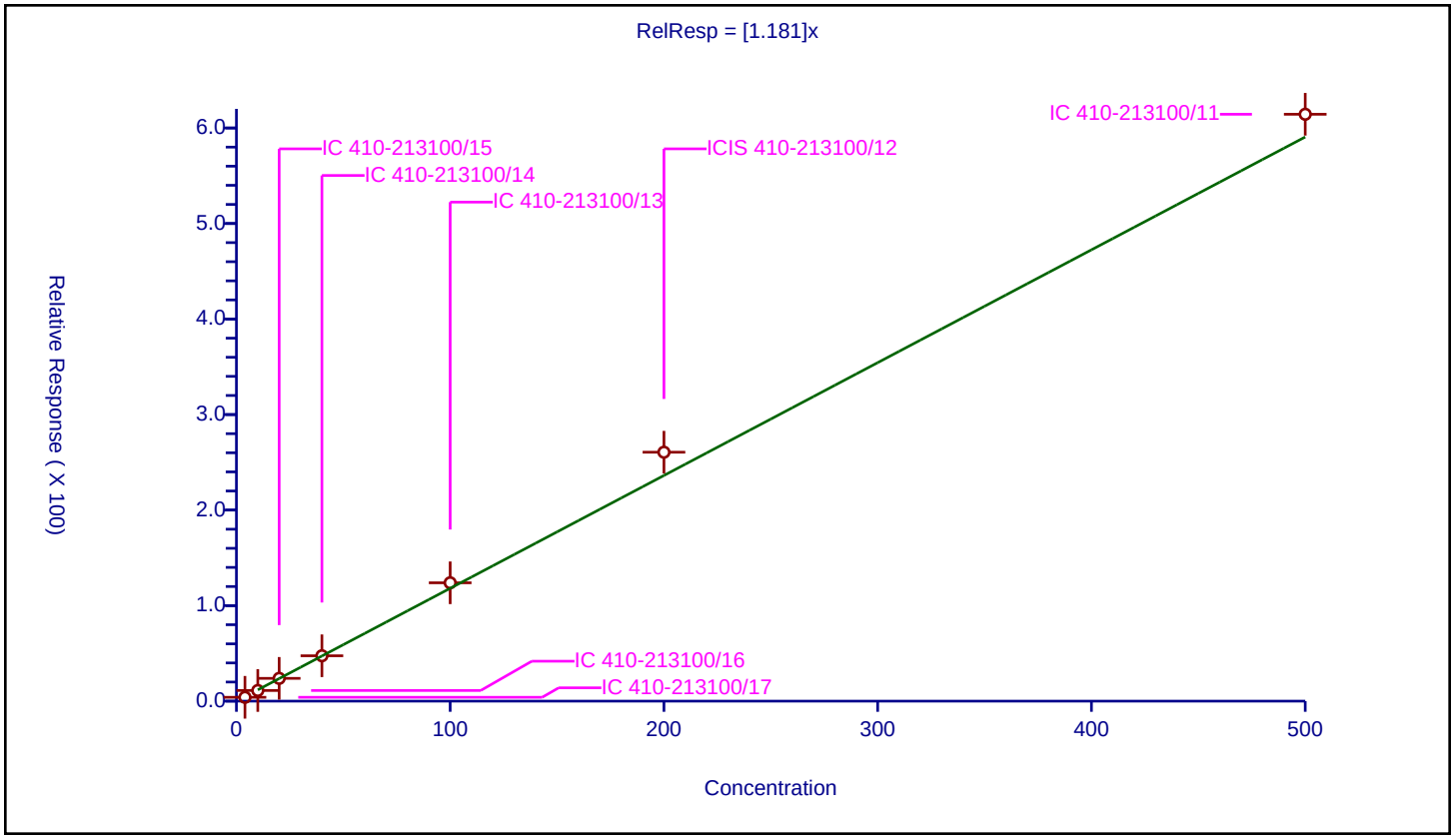
Curve Coefficients

Intercept:	0
Slope:	1.181

Error Coefficients

Standard Error:	913000
Relative Standard Error:	8.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	4.0	4.015764	50.0	169370.0	1.003941	Y
2	IC 410-213100/16	10.0	11.138727	50.0	173413.0	1.113873	Y
3	IC 410-213100/15	20.0	23.842643	50.0	174406.0	1.192132	Y
4	IC 410-213100/14	40.0	47.503481	50.0	178108.0	1.187587	Y
5	IC 410-213100/13	100.0	123.889787	50.0	171994.0	1.238898	Y
6	ICIS 410-213100/12	200.0	260.596348	50.0	169884.0	1.302982	Y
7	IC 410-213100/11	500.0	614.353985	50.0	162798.0	1.228708	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

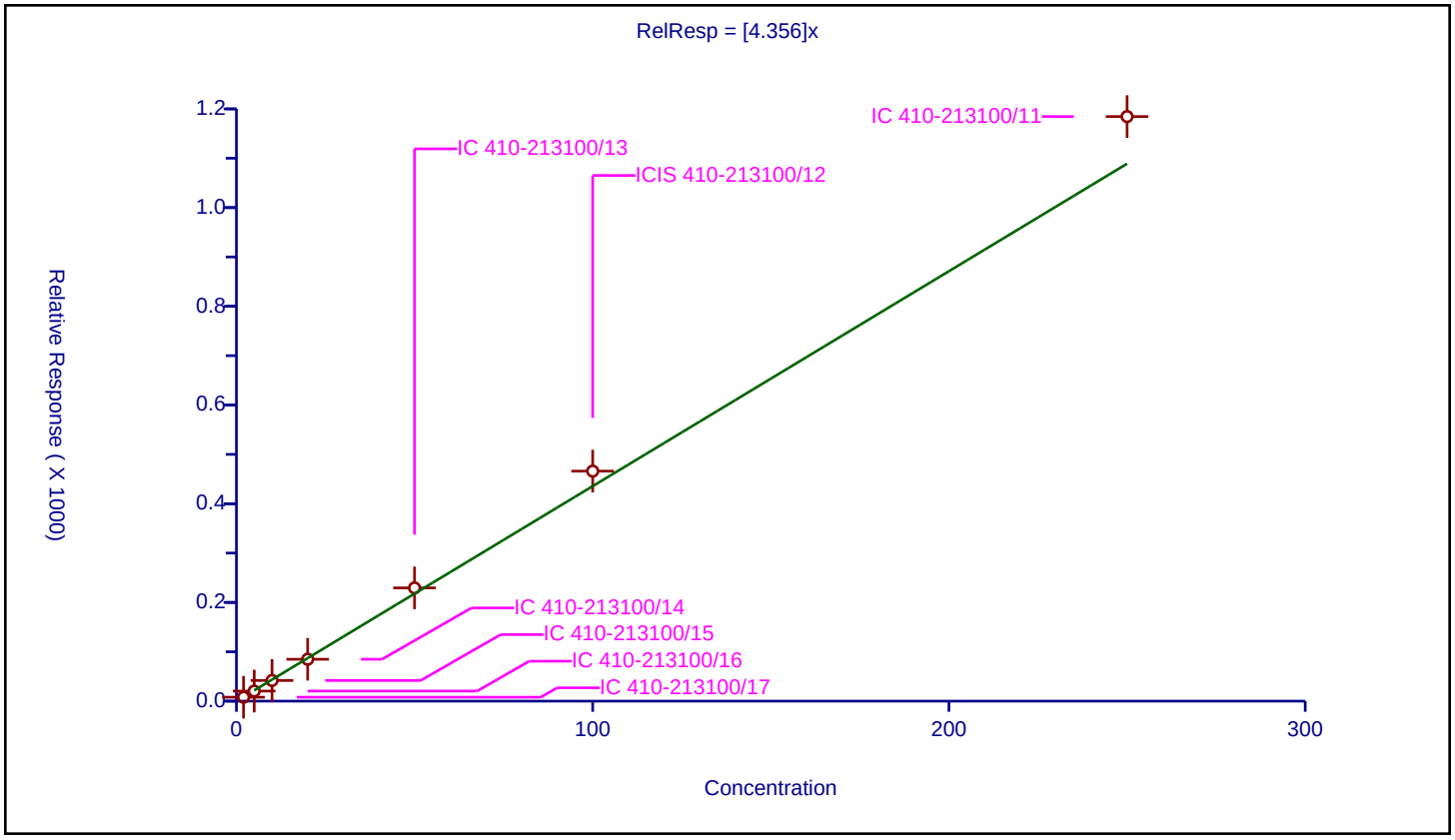
Curve Coefficients

Intercept:	0
Slope:	4.356

Error Coefficients

Standard Error:	1740000
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 410-213100/17	2.0	7.983704	50.0	169370.0	3.991852	Y
2	IC 410-213100/16	5.0	20.429264	50.0	173413.0	4.085853	Y
3	IC 410-213100/15	10.0	41.826543	50.0	174406.0	4.182654	Y
4	IC 410-213100/14	20.0	84.858906	50.0	178108.0	4.242945	Y
5	IC 410-213100/13	50.0	229.408875	50.0	171994.0	4.588177	Y
6	ICIS 410-213100/12	100.0	466.074204	50.0	169884.0	4.660742	Y
7	IC 410-213100/11	250.0	1184.471861	50.0	162798.0	4.737887	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

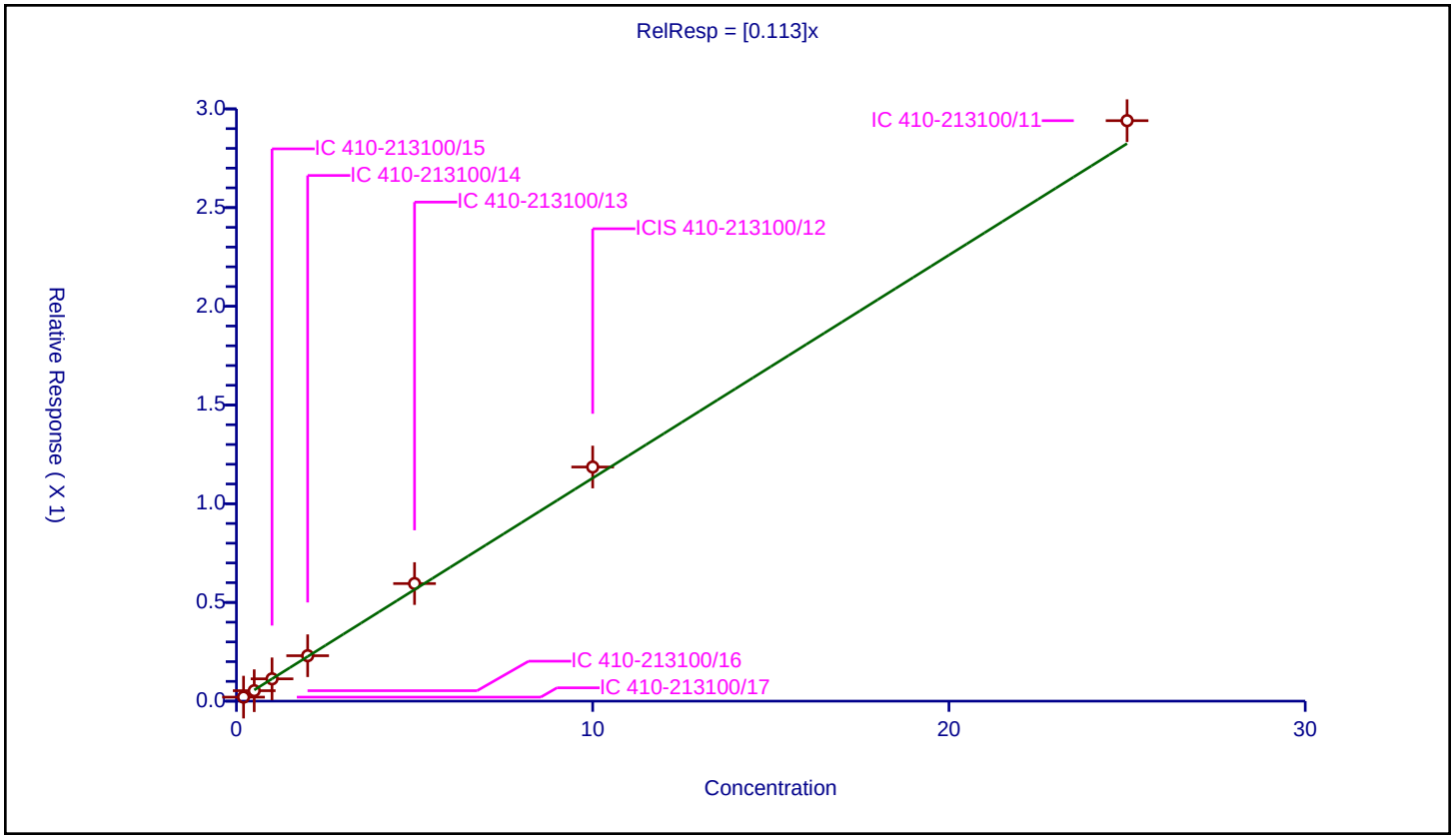
Curve Coefficients

Intercept:	0
Slope:	0.113

Error Coefficients

Standard Error:	313000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.020319	10.0	2322487.0	0.101594	Y
2	IC 410-213100/16	0.5	0.052938	10.0	2304387.0	0.105876	Y
3	IC 410-213100/15	1.0	0.11303	10.0	2305396.0	0.11303	Y
4	IC 410-213100/14	2.0	0.230048	10.0	2301914.0	0.115024	Y
5	IC 410-213100/13	5.0	0.595522	10.0	2337780.0	0.119104	Y
6	ICIS 410-213100/12	10.0	1.186002	10.0	2348513.0	0.1186	Y
7	IC 410-213100/11	25.0	2.940405	10.0	2378237.0	0.117616	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

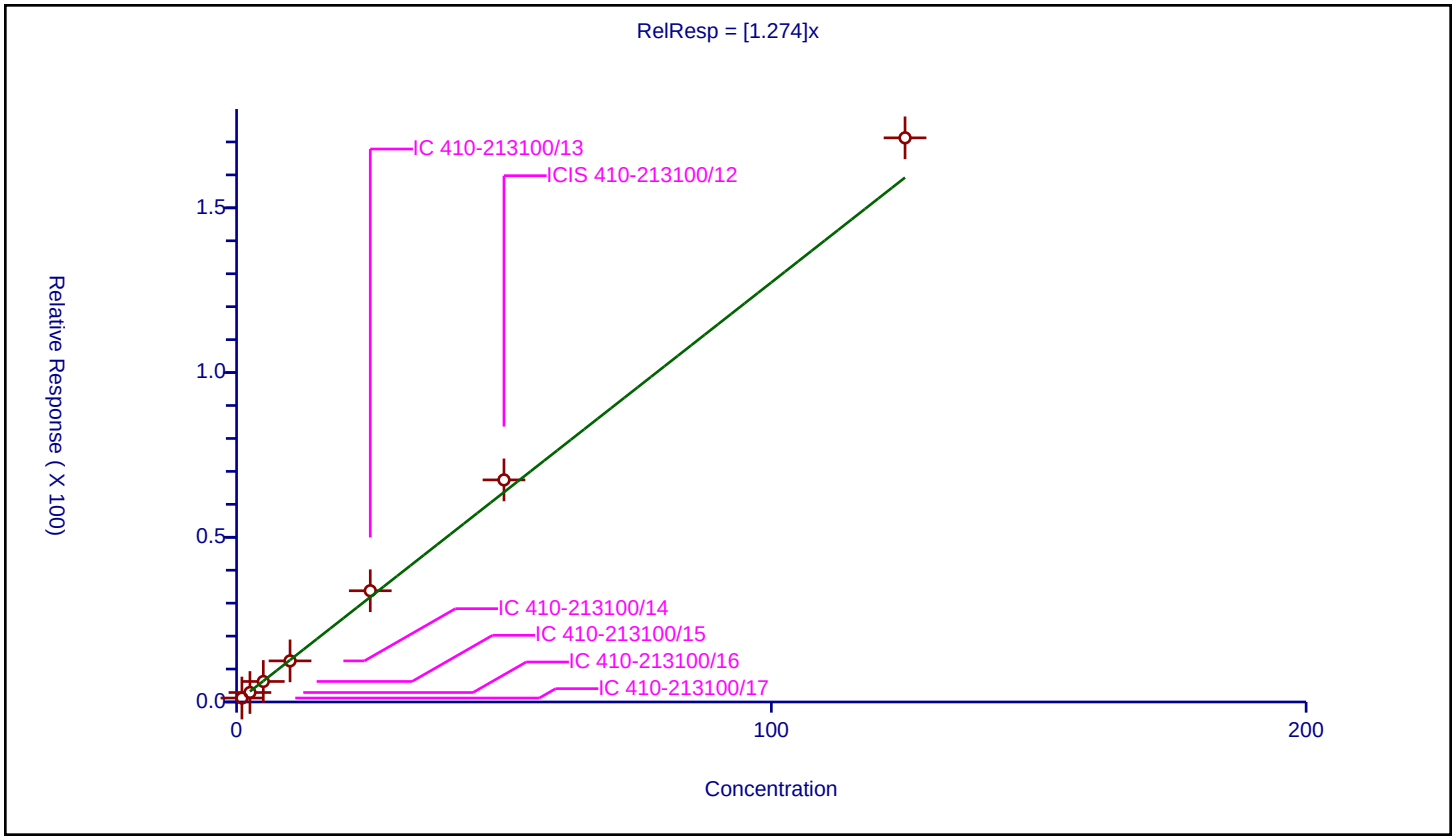
Curve Coefficients

Intercept:	0
Slope:	1.274

Error Coefficients

Standard Error:	251000
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 410-213100/17	1.0	1.202988	50.0	169370.0	1.202988	Y
2	IC 410-213100/16	2.5	2.873775	50.0	173413.0	1.14951	Y
3	IC 410-213100/15	5.0	6.23029	50.0	174406.0	1.246058	Y
4	IC 410-213100/14	10.0	12.479788	50.0	178108.0	1.247979	Y
5	IC 410-213100/13	25.0	33.764841	50.0	171994.0	1.350594	Y
6	ICIS 410-213100/12	50.0	67.41659	50.0	169884.0	1.348332	Y
7	IC 410-213100/11	125.0	171.247497	50.0	162798.0	1.36998	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

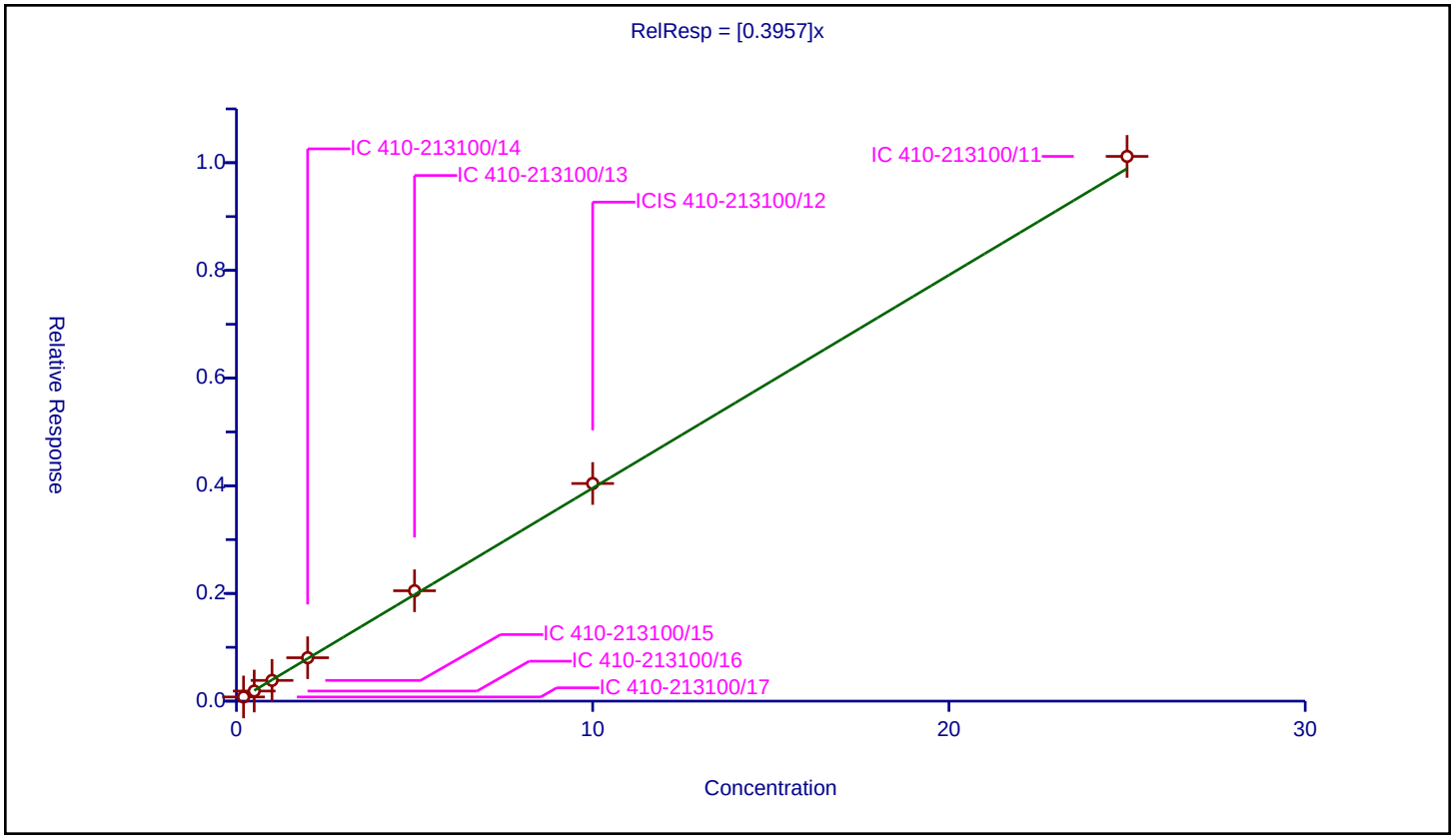
Curve Coefficients

Intercept:	0
Slope:	0.3957

Error Coefficients

Standard Error:	1080000
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 410-213100/17	0.2	0.077374	10.0	2322487.0	0.38687	Y
2	IC 410-213100/16	0.5	0.187855	10.0	2304387.0	0.375709	Y
3	IC 410-213100/15	1.0	0.385092	10.0	2305396.0	0.385092	Y
4	IC 410-213100/14	2.0	0.80586	10.0	2301914.0	0.40293	Y
5	IC 410-213100/13	5.0	2.05009	10.0	2337780.0	0.410018	Y
6	ICIS 410-213100/12	10.0	4.042273	10.0	2348513.0	0.404227	Y
7	IC 410-213100/11	25.0	10.118134	10.0	2378237.0	0.404725	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

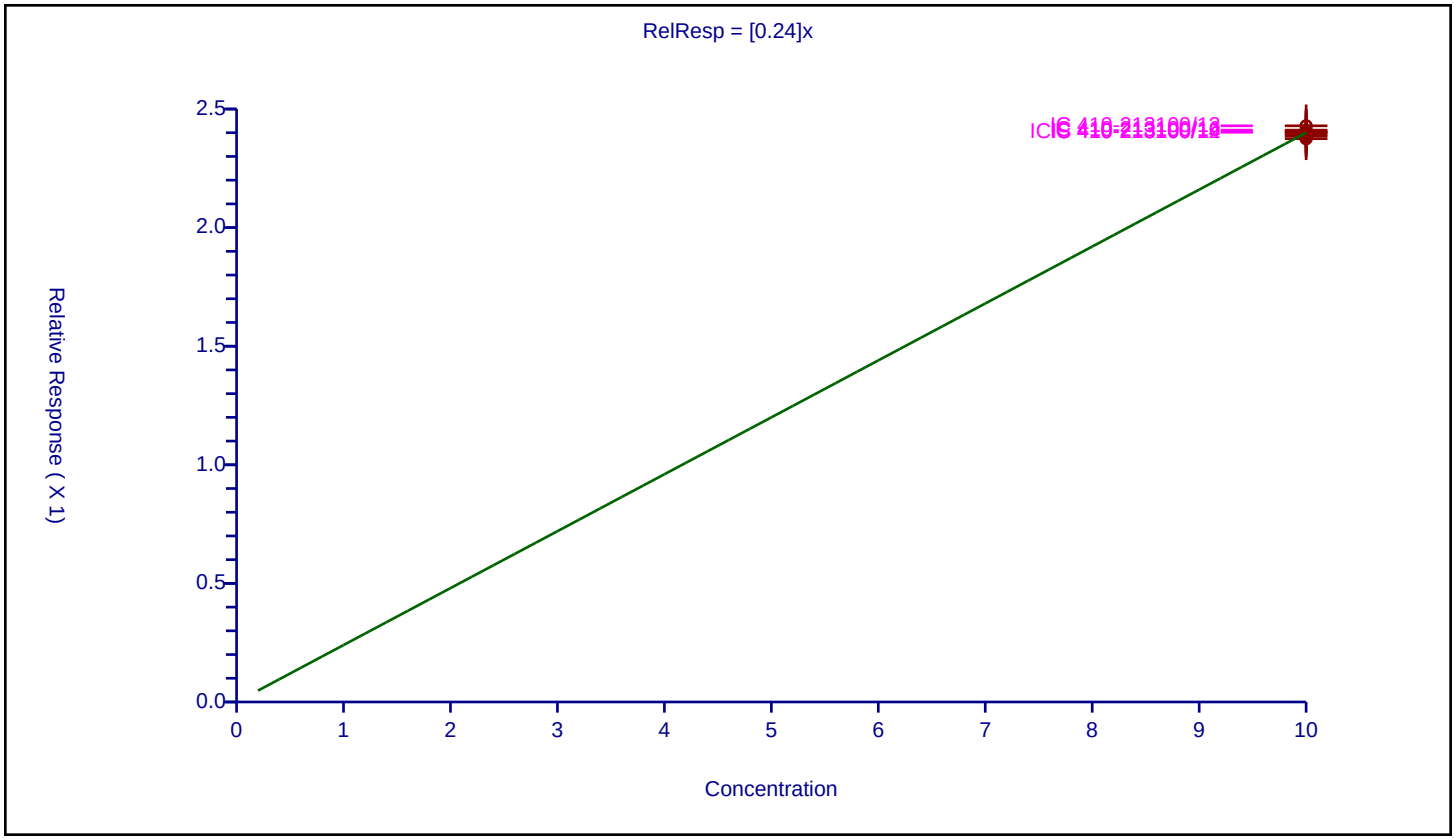
Curve Coefficients

Intercept:	0
Slope:	0.24

Error Coefficients

Standard Error:	604000
Relative Standard Error:	0.7
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/11	10.0	2.394093	10.0	2378237.0	0.239409	Y
2	ICIS 410-213100/12	10.0	2.402422	10.0	2348513.0	0.240242	Y
3	IC 410-213100/13	10.0	2.429172	10.0	2337780.0	0.242917	Y
4	IC 410-213100/14	10.0	2.403522	10.0	2301914.0	0.240352	Y
5	IC 410-213100/15	10.0	2.385668	10.0	2305396.0	0.238567	Y
6	IC 410-213100/16	10.0	2.410936	10.0	2304387.0	0.241094	Y
7	IC 410-213100/17	10.0	2.374773	10.0	2322487.0	0.237477	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

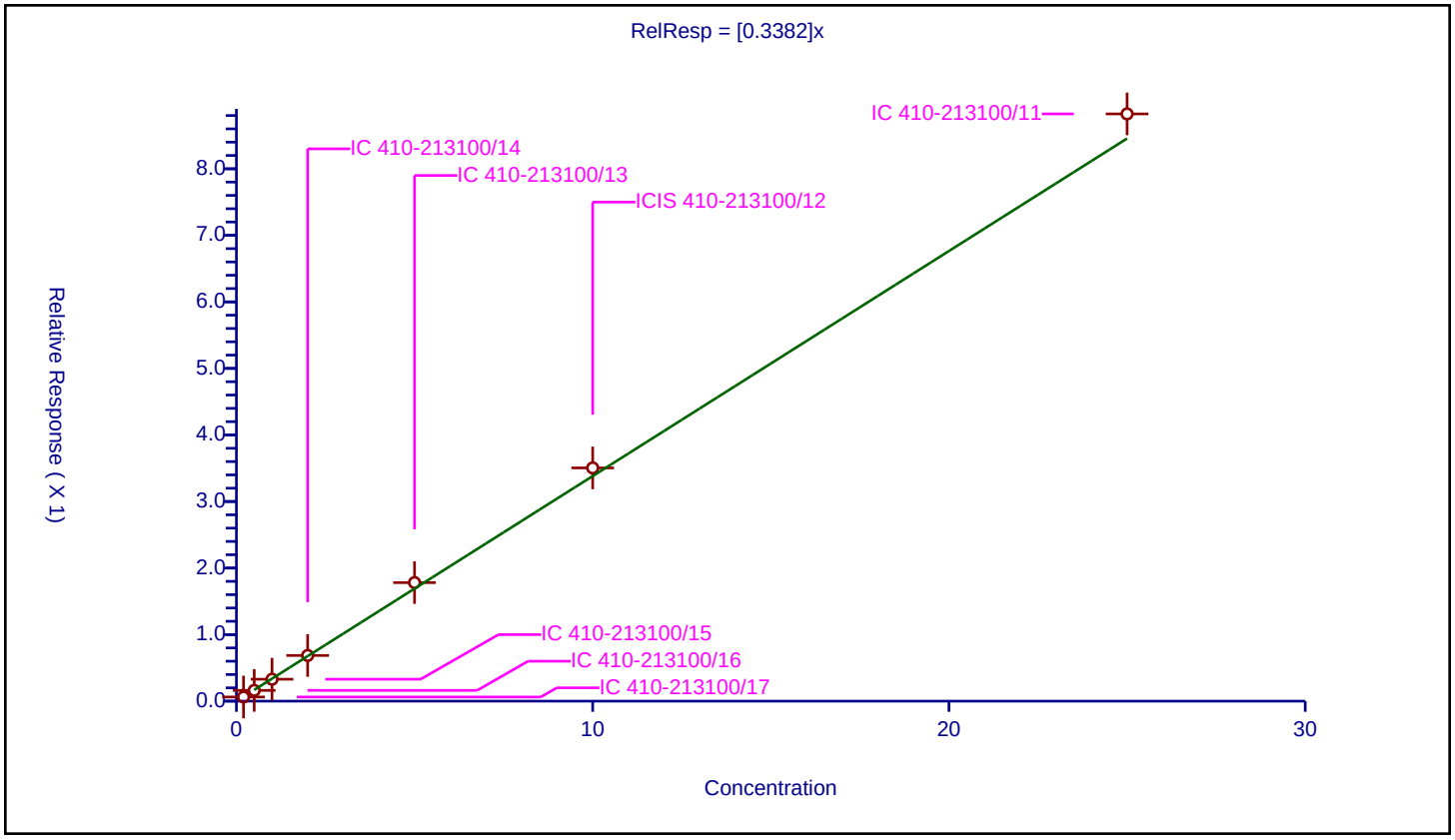
Curve Coefficients

Intercept:	0
Slope:	0.3382

Error Coefficients

Standard Error:	939000
Relative Standard Error:	5.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.062351	10.0	2322487.0	0.311756	Y
2	IC 410-213100/16	0.5	0.161626	10.0	2304387.0	0.323253	Y
3	IC 410-213100/15	1.0	0.329479	10.0	2305396.0	0.329479	Y
4	IC 410-213100/14	2.0	0.686277	10.0	2301914.0	0.343138	Y
5	IC 410-213100/13	5.0	1.781472	10.0	2337780.0	0.356294	Y
6	ICIS 410-213100/12	10.0	3.504767	10.0	2348513.0	0.350477	Y
7	IC 410-213100/11	25.0	8.824545	10.0	2378237.0	0.352982	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

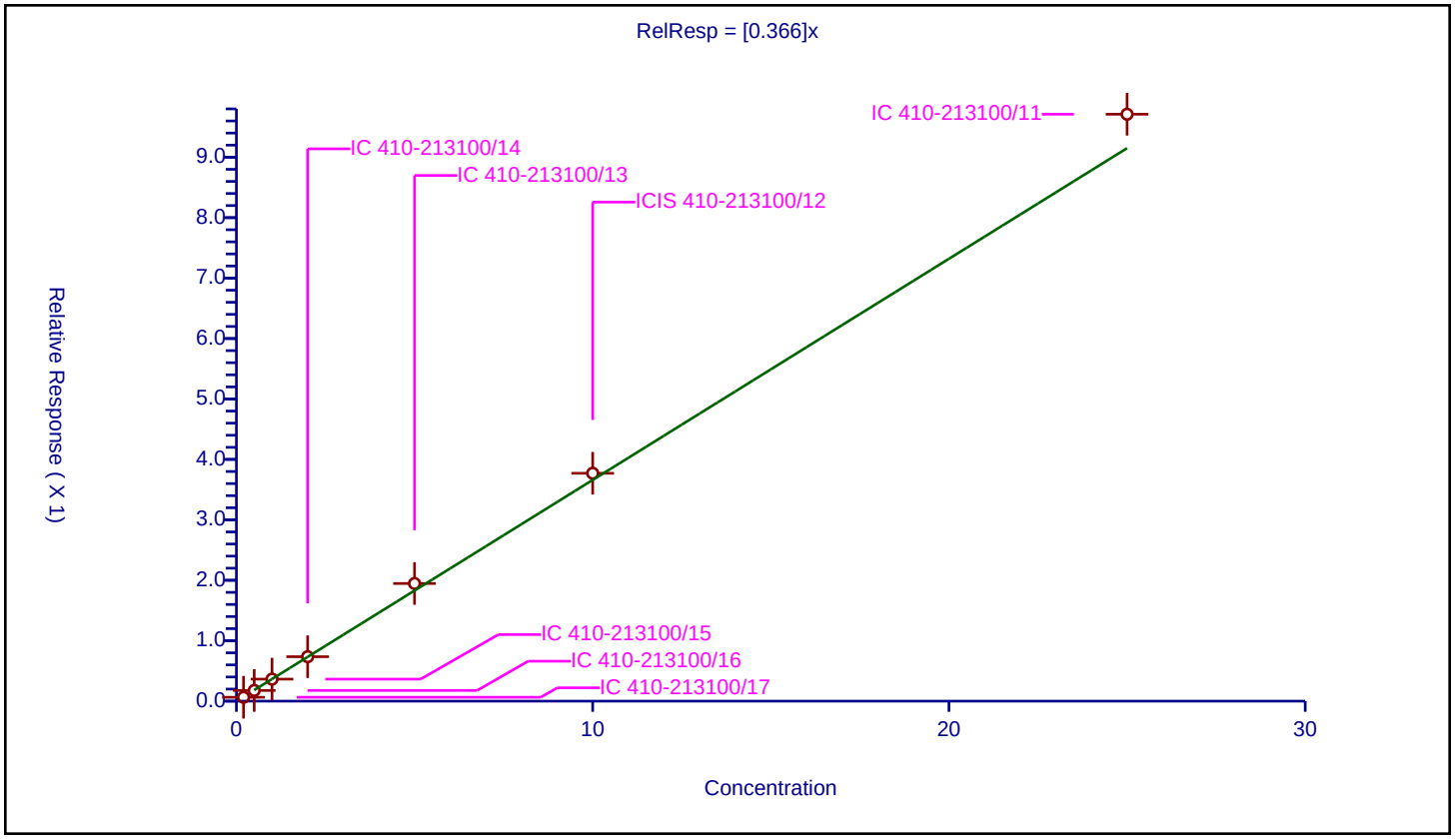
Curve Coefficients

Intercept:	0
Slope:	0.366

Error Coefficients

Standard Error:	1030000
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 410-213100/17	0.2	0.064147	10.0	2322487.0	0.320734	Y
2	IC 410-213100/16	0.5	0.177088	10.0	2304387.0	0.354177	Y
3	IC 410-213100/15	1.0	0.364419	10.0	2305396.0	0.364419	Y
4	IC 410-213100/14	2.0	0.735362	10.0	2301914.0	0.367681	Y
5	IC 410-213100/13	5.0	1.946727	10.0	2337780.0	0.389345	Y
6	ICIS 410-213100/12	10.0	3.770565	10.0	2348513.0	0.377056	Y
7	IC 410-213100/11	25.0	9.711627	10.0	2378237.0	0.388465	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

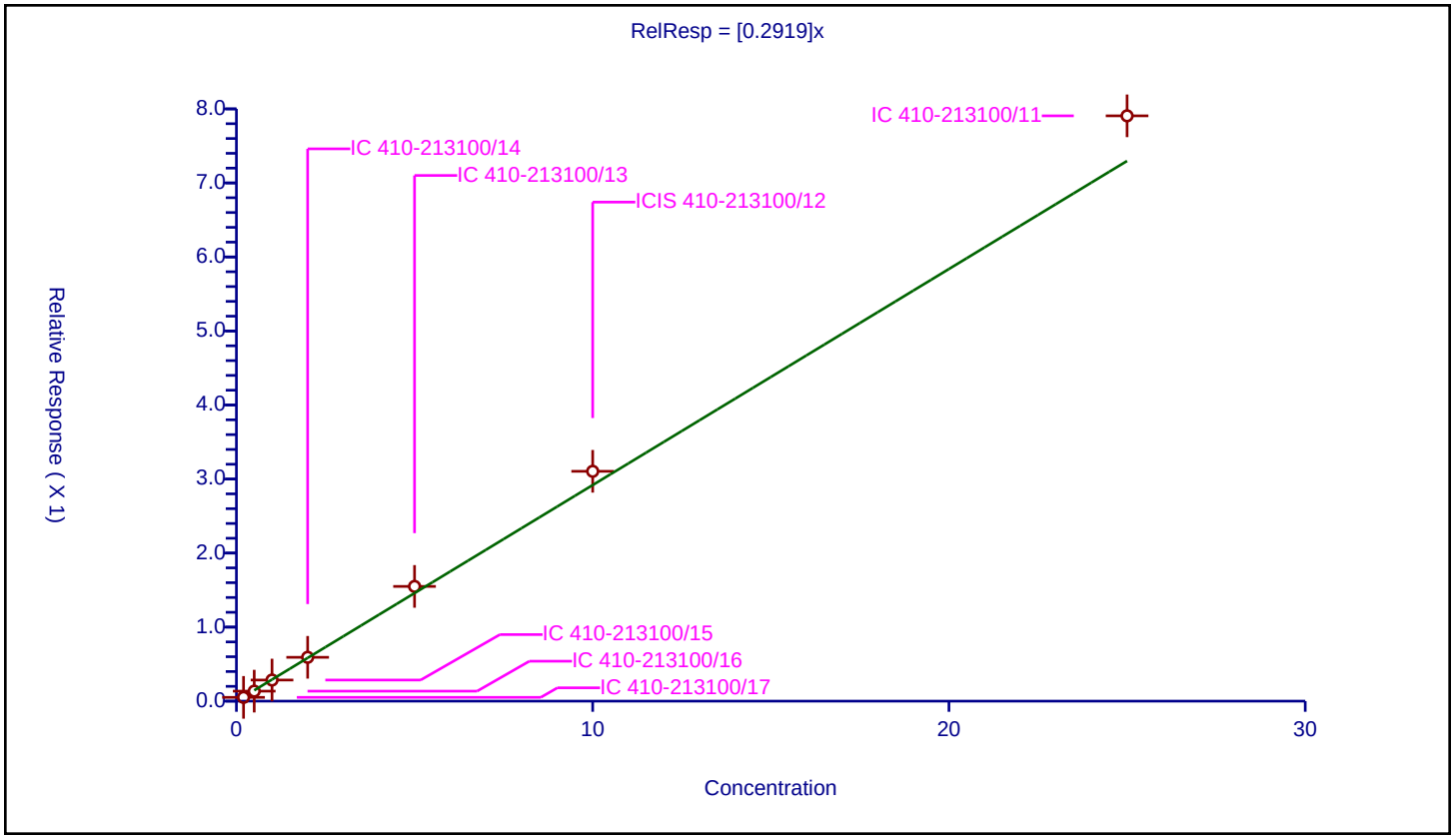
Curve Coefficients

Intercept:	0
Slope:	0.2919

Error Coefficients

Standard Error:	839000
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 410-213100/17	0.2	0.050971	10.0	2322487.0	0.254856	Y
2	IC 410-213100/16	0.5	0.135147	10.0	2304387.0	0.270293	Y
3	IC 410-213100/15	1.0	0.285287	10.0	2305396.0	0.285287	Y
4	IC 410-213100/14	2.0	0.592086	10.0	2301914.0	0.296043	Y
5	IC 410-213100/13	5.0	1.549573	10.0	2337780.0	0.309915	Y
6	ICIS 410-213100/12	10.0	3.104496	10.0	2348513.0	0.31045	Y
7	IC 410-213100/11	25.0	7.905928	10.0	2378237.0	0.316237	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

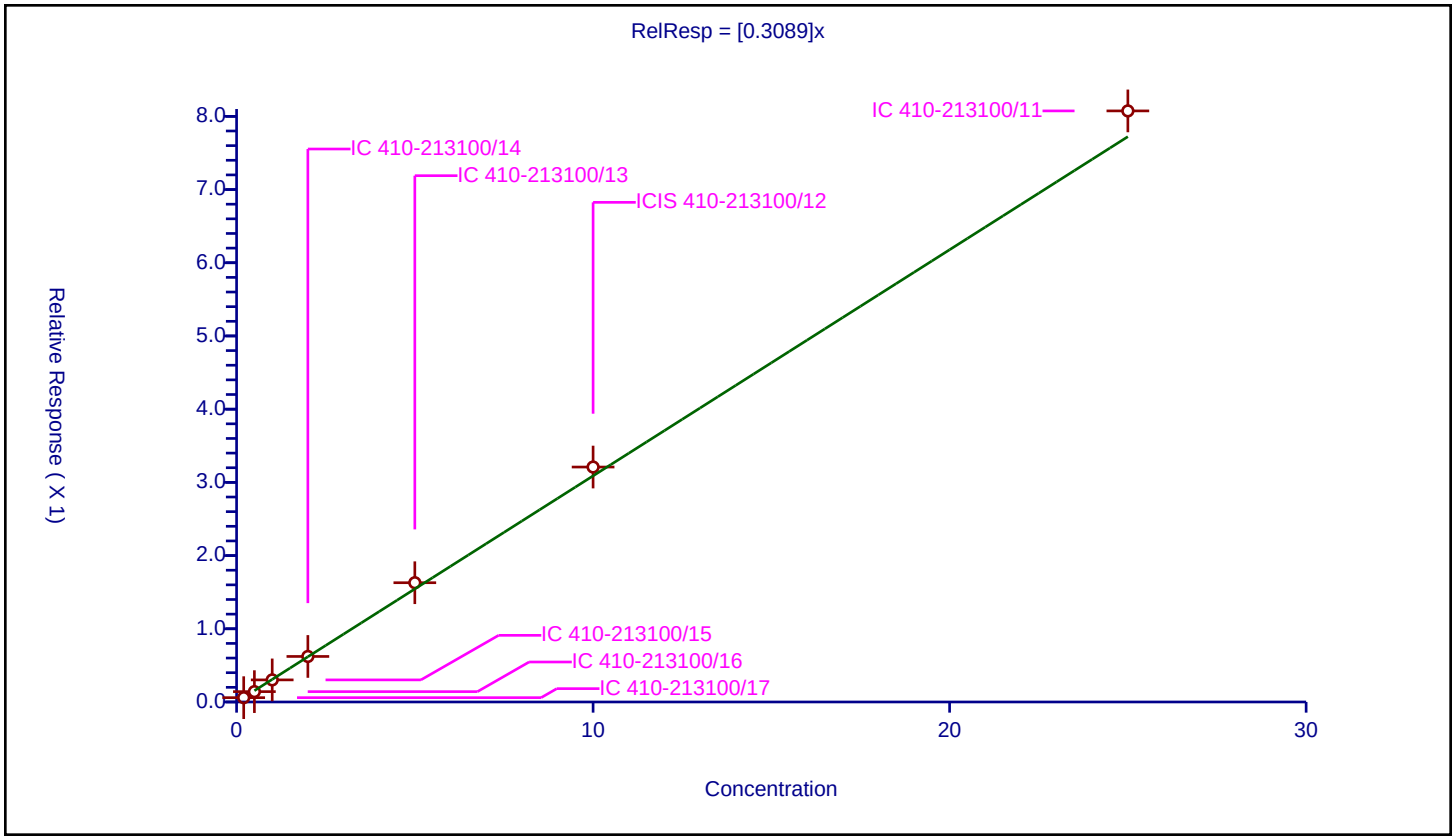
Curve Coefficients

Intercept:	0
Slope:	0.3089

Error Coefficients

Standard Error:	859000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.059286	10.0	2322487.0	0.296428	Y
2	IC 410-213100/16	0.5	0.141586	10.0	2304387.0	0.283173	Y
3	IC 410-213100/15	1.0	0.301931	10.0	2305396.0	0.301931	Y
4	IC 410-213100/14	2.0	0.621822	10.0	2301914.0	0.310911	Y
5	IC 410-213100/13	5.0	1.629174	10.0	2337780.0	0.325835	Y
6	ICIS 410-213100/12	10.0	3.209499	10.0	2348513.0	0.32095	Y
7	IC 410-213100/11	25.0	8.074061	10.0	2378237.0	0.322962	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

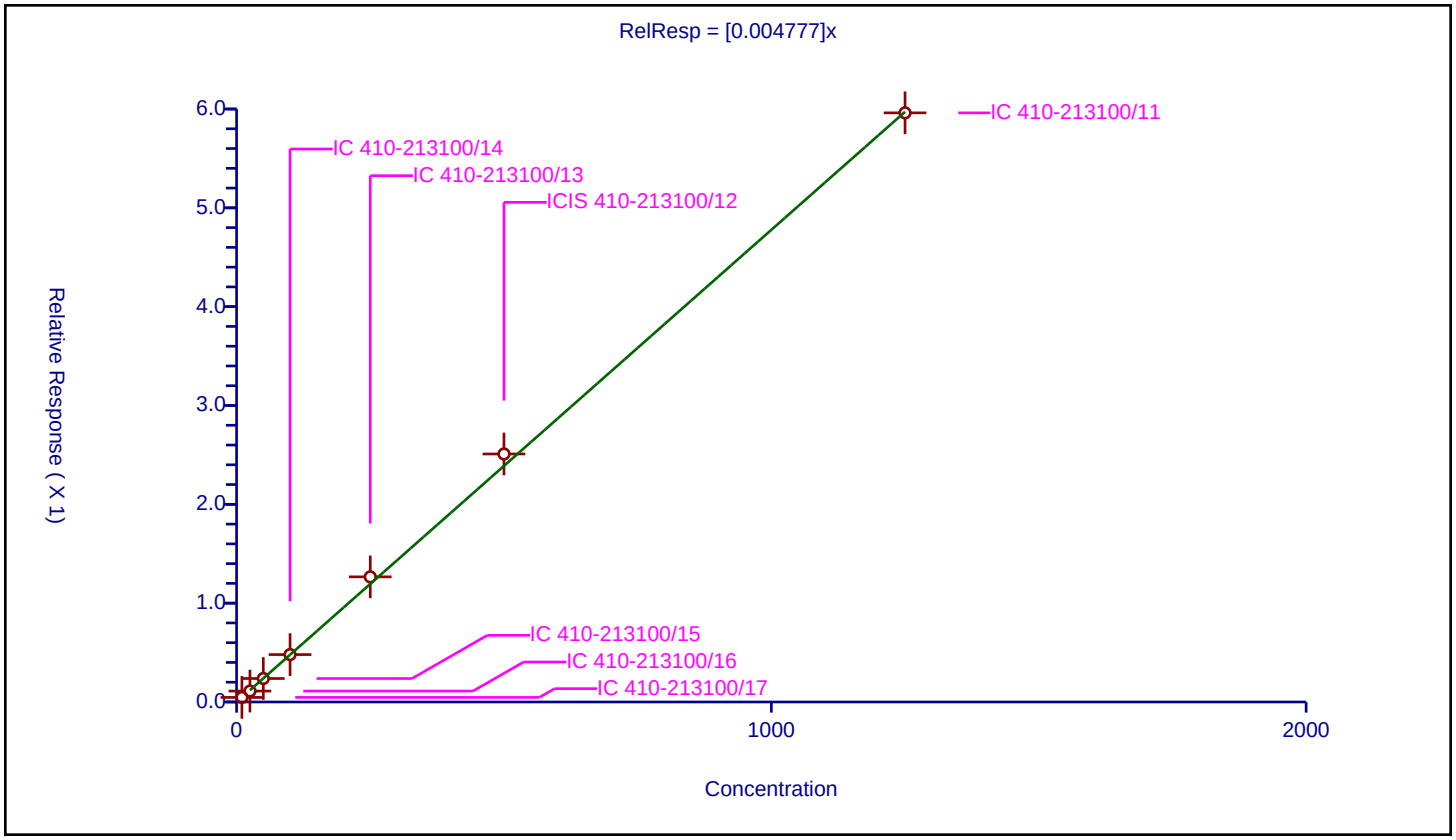
Curve Coefficients

Intercept:	0
Slope:	0.004777

Error Coefficients

Standard Error:	640000
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 410-213100/17	10.0	0.046175	10.0	2322487.0	0.004617	Y
2	IC 410-213100/16	25.0	0.110619	10.0	2304387.0	0.004425	Y
3	IC 410-213100/15	50.0	0.237491	10.0	2305396.0	0.00475	Y
4	IC 410-213100/14	100.0	0.479692	10.0	2301914.0	0.004797	Y
5	IC 410-213100/13	250.0	1.266201	10.0	2337780.0	0.005065	Y
6	ICIS 410-213100/12	500.0	2.509588	10.0	2348513.0	0.005019	Y
7	IC 410-213100/11	1250.0	5.961185	10.0	2378237.0	0.004769	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

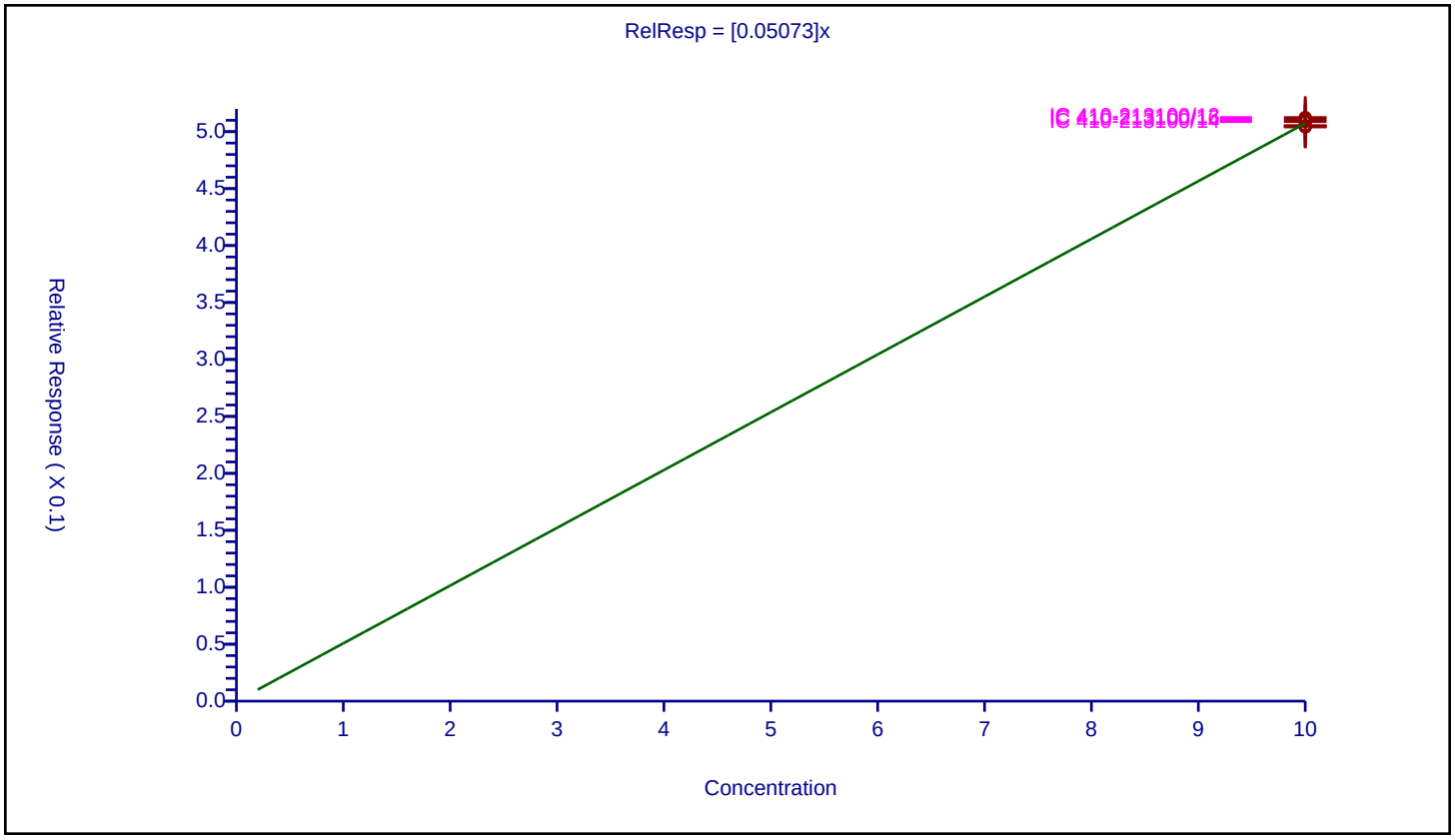
Curve Coefficients

Intercept:	0
Slope:	0.05073

Error Coefficients

Standard Error:	128000
Relative Standard Error:	0.7
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0.000000000000000111

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/11	10.0	0.504609	10.0	2378237.0	0.050461	Y
2	ICIS 410-213100/12	10.0	0.504106	10.0	2348513.0	0.050411	Y
3	IC 410-213100/13	10.0	0.512443	10.0	2337780.0	0.051244	Y
4	IC 410-213100/14	10.0	0.50882	10.0	2301914.0	0.050882	Y
5	IC 410-213100/15	10.0	0.504994	10.0	2305396.0	0.050499	Y
6	IC 410-213100/16	10.0	0.510682	10.0	2304387.0	0.051068	Y
7	IC 410-213100/17	10.0	0.50529	10.0	2322487.0	0.050529	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

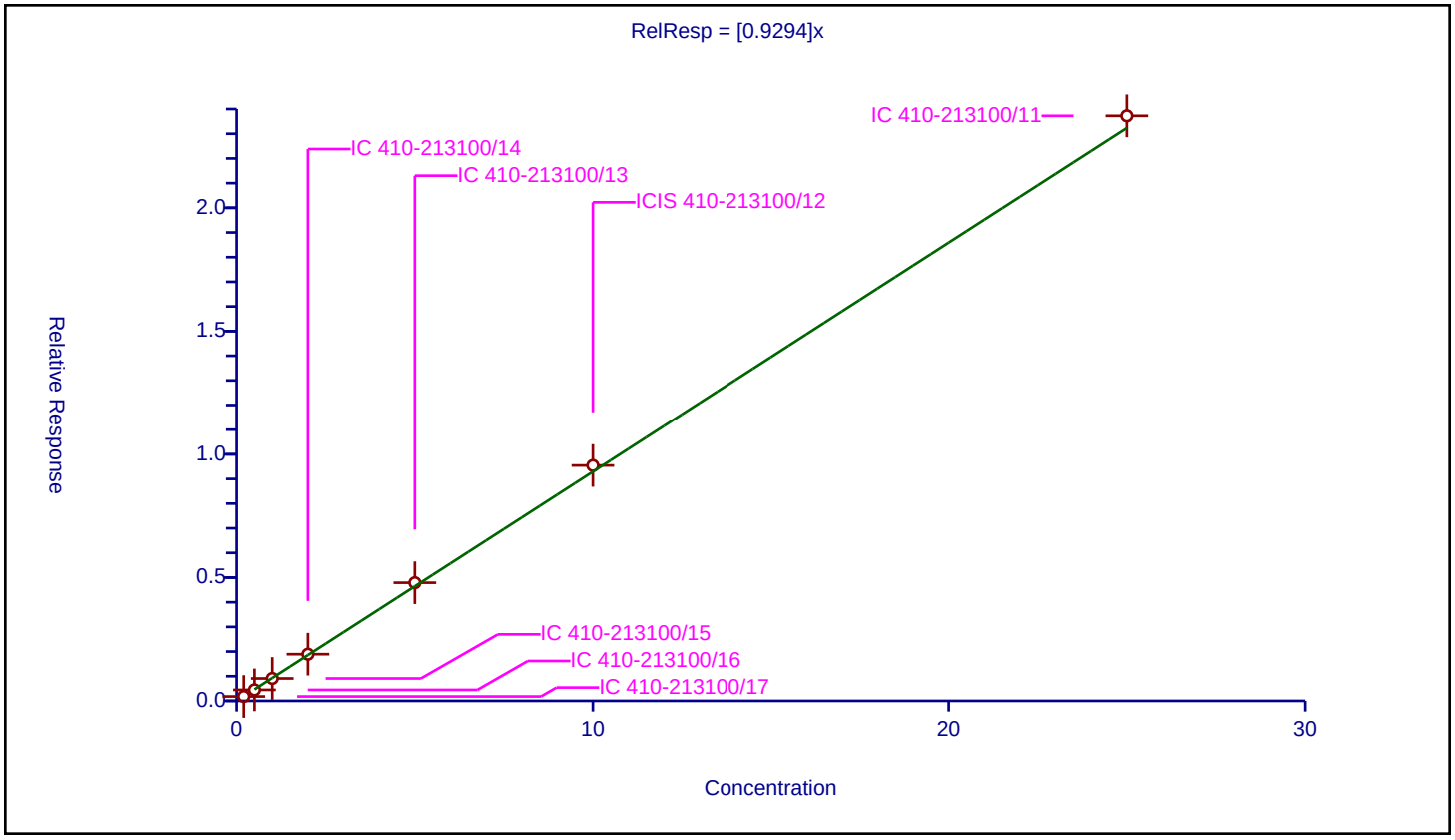
Curve Coefficients

Intercept:	0
Slope:	0.9294

Error Coefficients

Standard Error:	2530000
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 410-213100/17	0.2	0.178834	10.0	2322487.0	0.894171	Y
2	IC 410-213100/16	0.5	0.446531	10.0	2304387.0	0.893062	Y
3	IC 410-213100/15	1.0	0.909844	10.0	2305396.0	0.909844	Y
4	IC 410-213100/14	2.0	1.893572	10.0	2301914.0	0.946786	Y
5	IC 410-213100/13	5.0	4.791563	10.0	2337780.0	0.958313	Y
6	ICIS 410-213100/12	10.0	9.546879	10.0	2348513.0	0.954688	Y
7	IC 410-213100/11	25.0	23.725184	10.0	2378237.0	0.949007	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

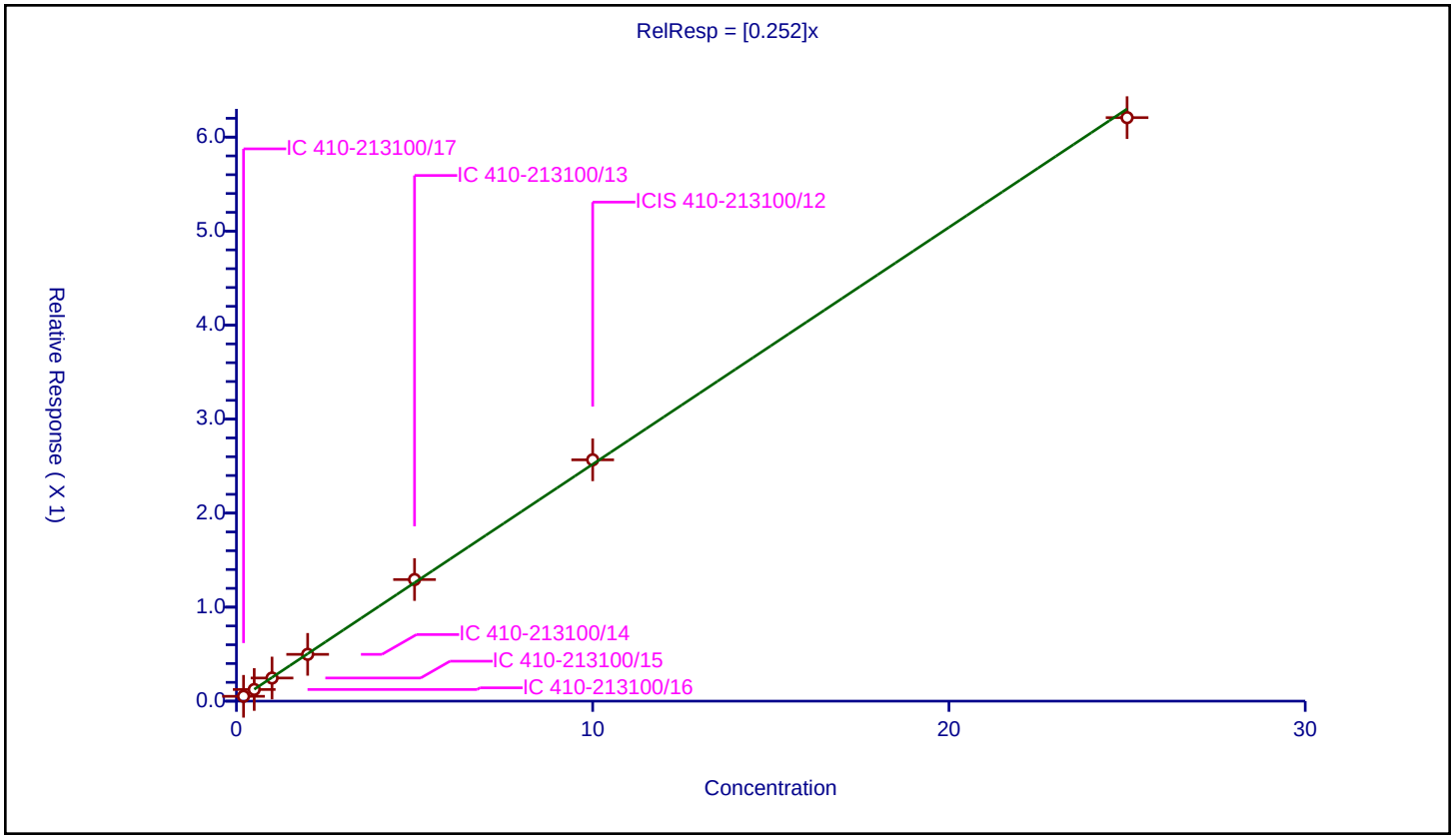
Curve Coefficients

Intercept:	0
Slope:	0.252

Error Coefficients

Standard Error:	665000
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.051458	10.0	2322487.0	0.257289	Y
2	IC 410-213100/16	0.5	0.124072	10.0	2304387.0	0.248144	Y
3	IC 410-213100/15	1.0	0.245979	10.0	2305396.0	0.245979	Y
4	IC 410-213100/14	2.0	0.49769	10.0	2301914.0	0.248845	Y
5	IC 410-213100/13	5.0	1.293552	10.0	2337780.0	0.25871	Y
6	ICIS 410-213100/12	10.0	2.56702	10.0	2348513.0	0.256702	Y
7	IC 410-213100/11	25.0	6.20706	10.0	2378237.0	0.248282	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

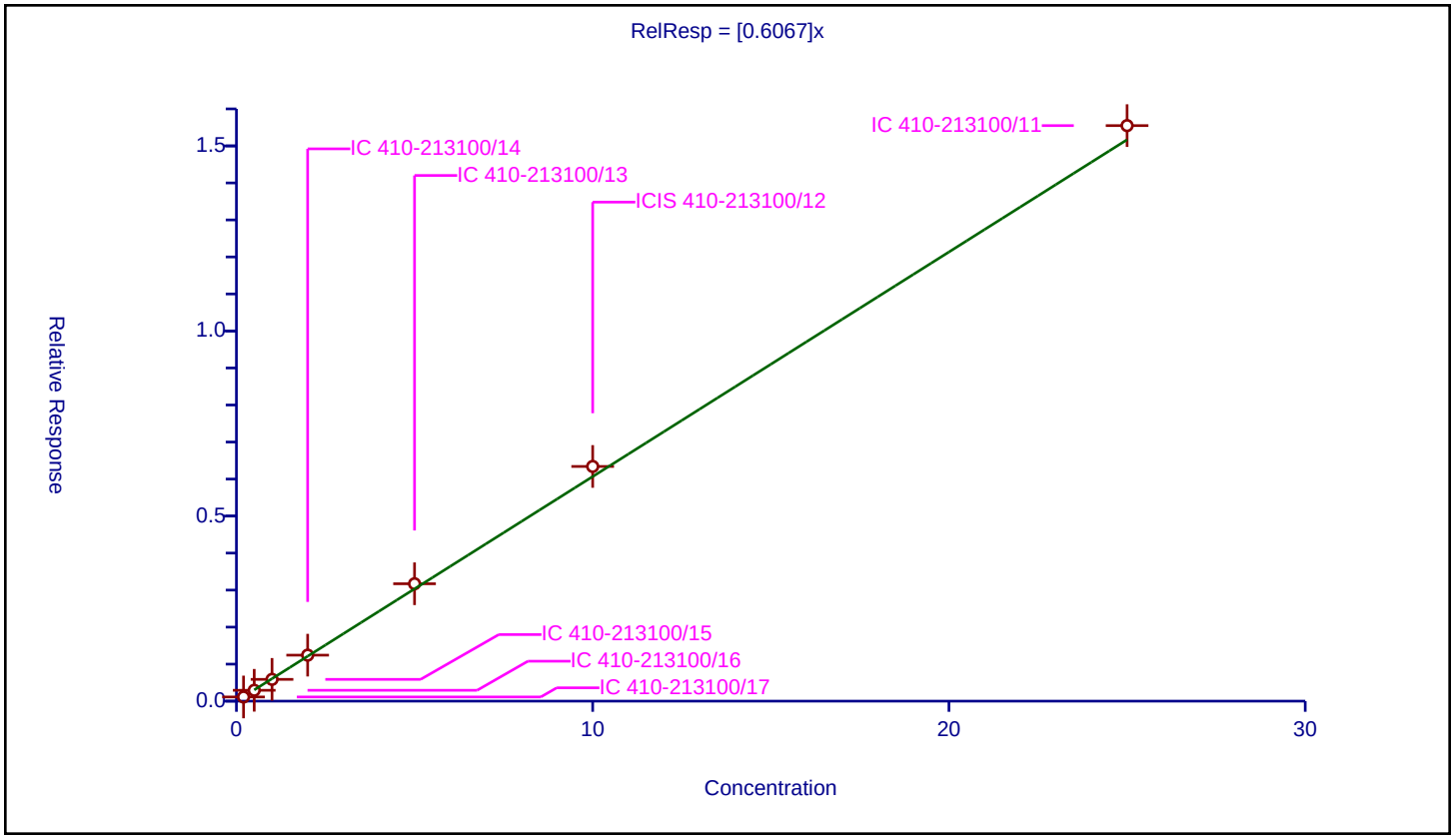
Curve Coefficients

Intercept:	0
Slope:	0.6067

Error Coefficients

Standard Error:	1660000
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 410-213100/17	0.2	0.112298	10.0	2322487.0	0.561489	Y
2	IC 410-213100/16	0.5	0.292902	10.0	2304387.0	0.585804	Y
3	IC 410-213100/15	1.0	0.588177	10.0	2305396.0	0.588177	Y
4	IC 410-213100/14	2.0	1.242531	10.0	2301914.0	0.621266	Y
5	IC 410-213100/13	5.0	3.17144	10.0	2337780.0	0.634288	Y
6	ICIS 410-213100/12	10.0	6.340374	10.0	2348513.0	0.634037	Y
7	IC 410-213100/11	25.0	15.547862	10.0	2378237.0	0.621914	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

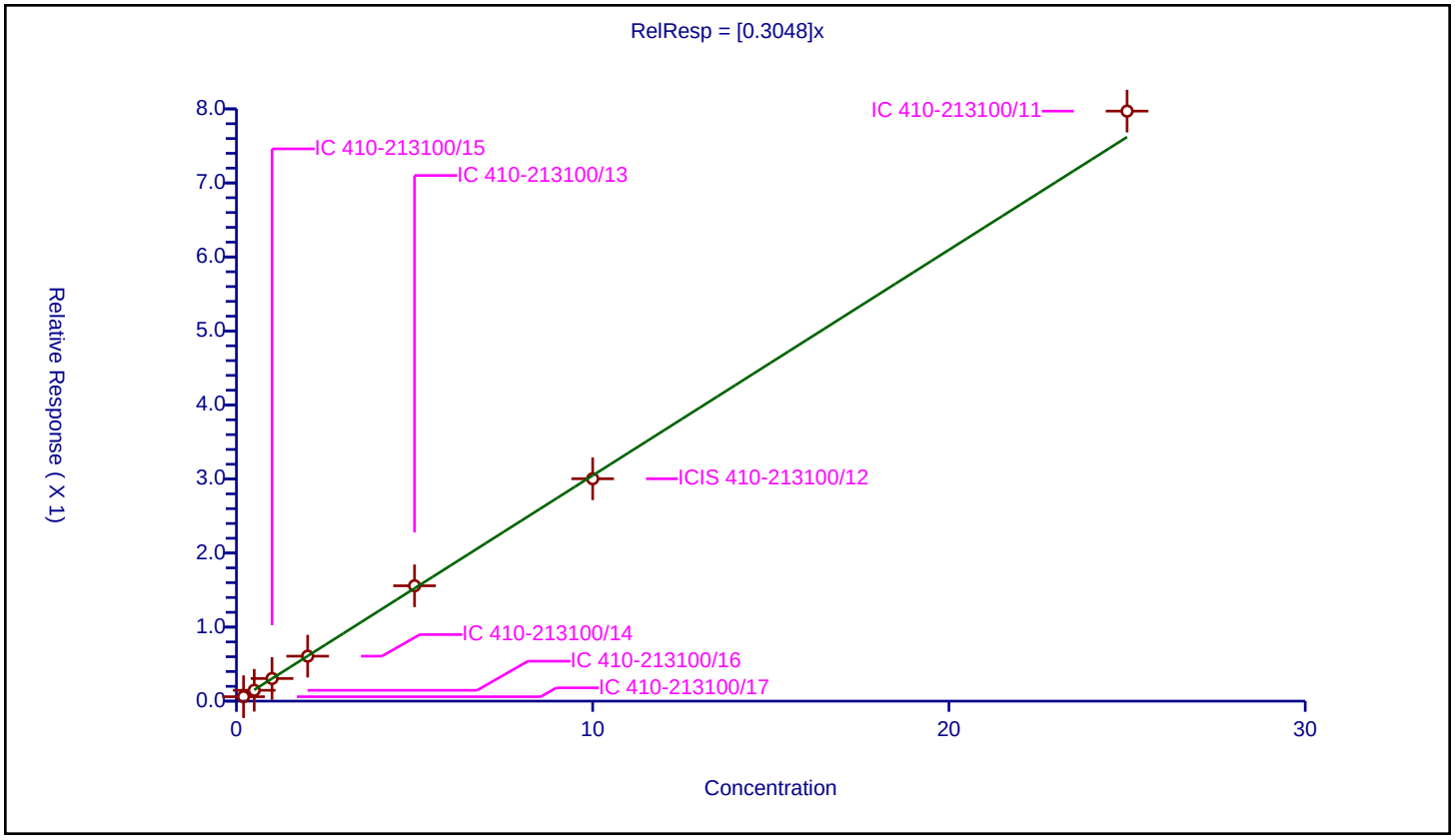
Curve Coefficients

Intercept:	0
Slope:	0.3048

Error Coefficients

Standard Error:	842000
Relative Standard Error:	2.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.059979	10.0	2322487.0	0.299894	Y
2	IC 410-213100/16	0.5	0.146777	10.0	2304387.0	0.293553	Y
3	IC 410-213100/15	1.0	0.305652	10.0	2305396.0	0.305652	Y
4	IC 410-213100/14	2.0	0.607308	10.0	2301914.0	0.303654	Y
5	IC 410-213100/13	5.0	1.55823	10.0	2337780.0	0.311646	Y
6	ICIS 410-213100/12	10.0	3.003862	10.0	2348513.0	0.300386	Y
7	IC 410-213100/11	25.0	7.969971	10.0	2378237.0	0.318799	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

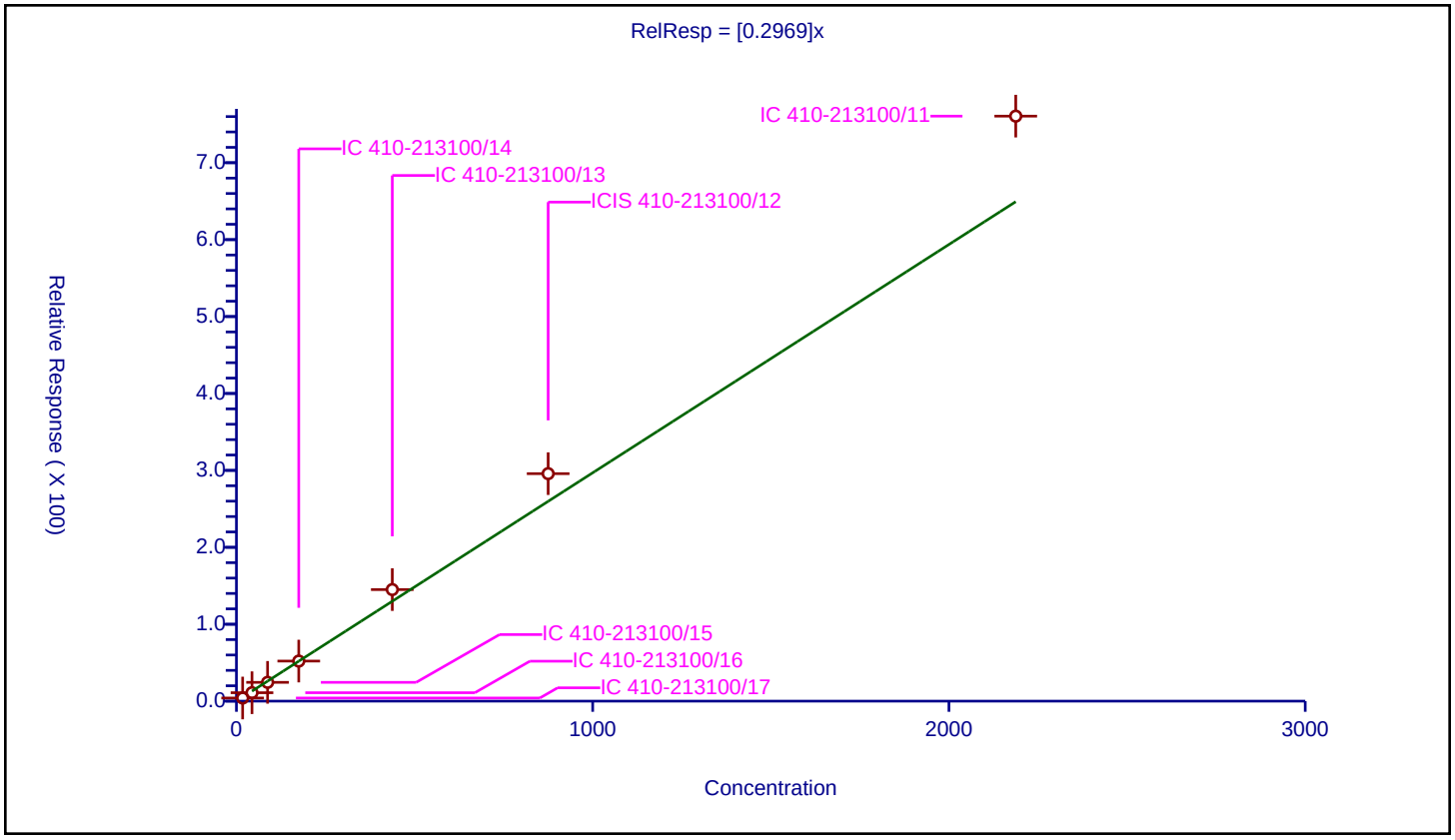
Curve Coefficients

Intercept:	0
Slope:	0.2969

Error Coefficients

Standard Error:	1110000
Relative Standard Error:	15.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	17.5	4.083958	50.0	169370.0	0.233369	Y
2	IC 410-213100/16	43.75	10.967748	50.0	173413.0	0.250691	Y
3	IC 410-213100/15	87.5	24.416591	50.0	174406.0	0.279047	Y
4	IC 410-213100/14	175.0	52.080479	50.0	178108.0	0.297603	Y
5	IC 410-213100/13	437.5	145.050409	50.0	171994.0	0.331544	Y
6	ICIS 410-213100/12	875.0	295.776236	50.0	169884.0	0.33803	Y
7	IC 410-213100/11	2187.5	760.595032	50.0	162798.0	0.347701	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

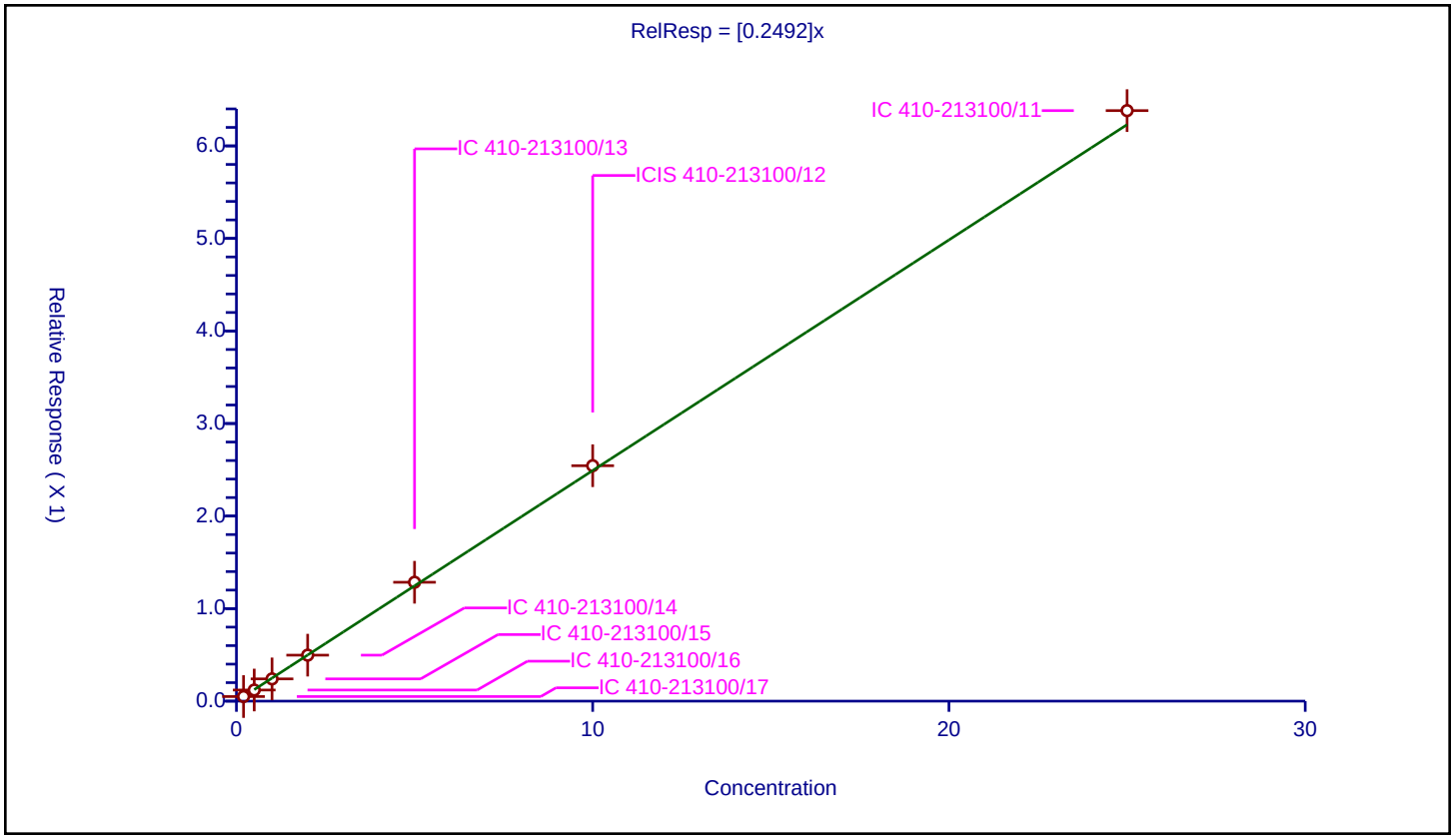
Curve Coefficients

Intercept:	0
Slope:	0.2492

Error Coefficients

Standard Error:	679000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.049748	10.0	2322487.0	0.248742	Y
2	IC 410-213100/16	0.5	0.120067	10.0	2304387.0	0.240133	Y
3	IC 410-213100/15	1.0	0.240388	10.0	2305396.0	0.240388	Y
4	IC 410-213100/14	2.0	0.497026	10.0	2301914.0	0.248513	Y
5	IC 410-213100/13	5.0	1.284565	10.0	2337780.0	0.256913	Y
6	ICIS 410-213100/12	10.0	2.54415	10.0	2348513.0	0.254415	Y
7	IC 410-213100/11	25.0	6.381319	10.0	2378237.0	0.255253	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

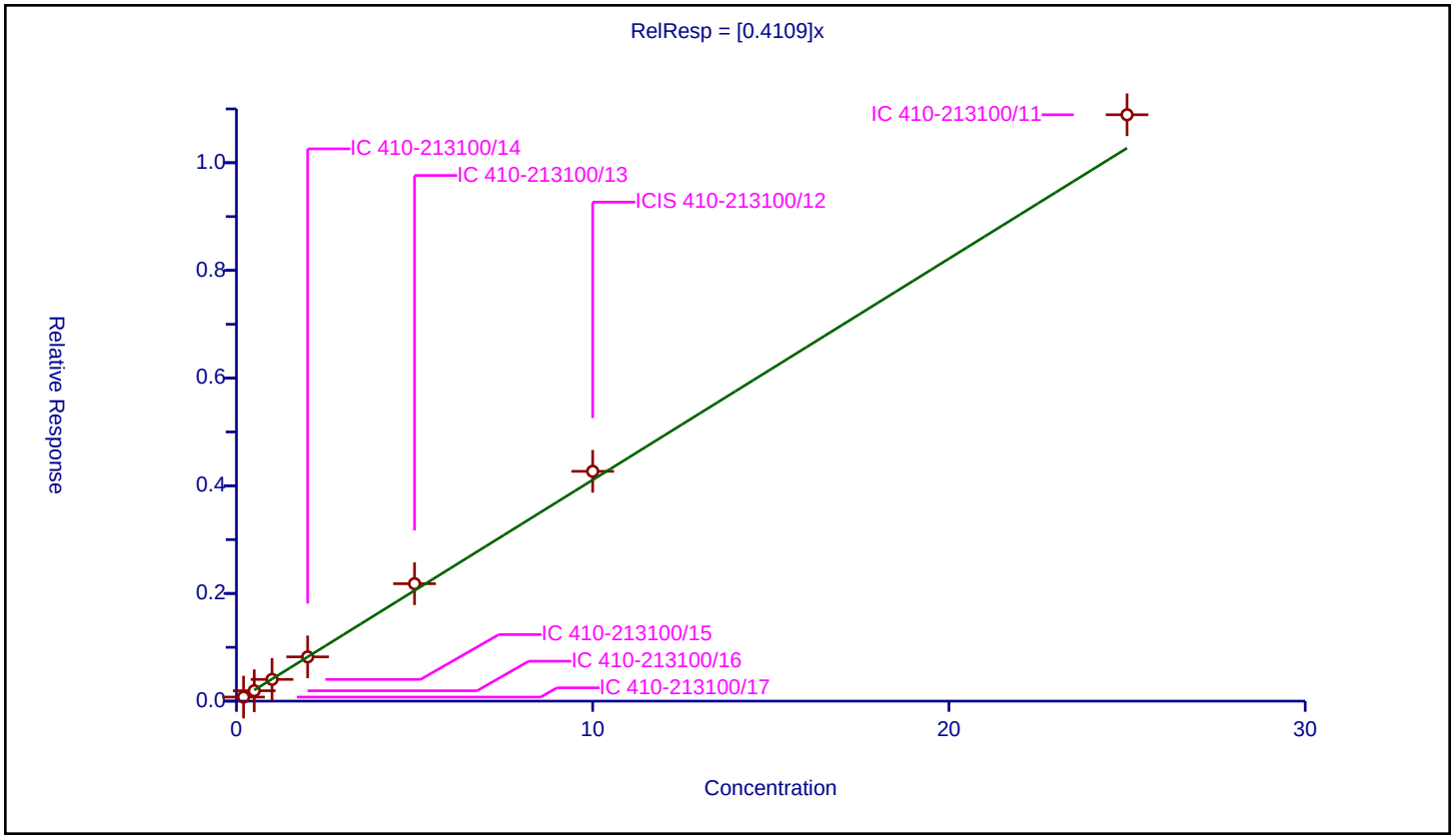
Curve Coefficients

Intercept:	0
Slope:	0.4109

Error Coefficients

Standard Error:	1160000
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.075217	10.0	2322487.0	0.376084	Y
2	IC 410-213100/16	0.5	0.193218	10.0	2304387.0	0.386437	Y
3	IC 410-213100/15	1.0	0.403978	10.0	2305396.0	0.403978	Y
4	IC 410-213100/14	2.0	0.821933	10.0	2301914.0	0.410967	Y
5	IC 410-213100/13	5.0	2.181467	10.0	2337780.0	0.436293	Y
6	ICIS 410-213100/12	10.0	4.268599	10.0	2348513.0	0.42686	Y
7	IC 410-213100/11	25.0	10.891135	10.0	2378237.0	0.435645	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

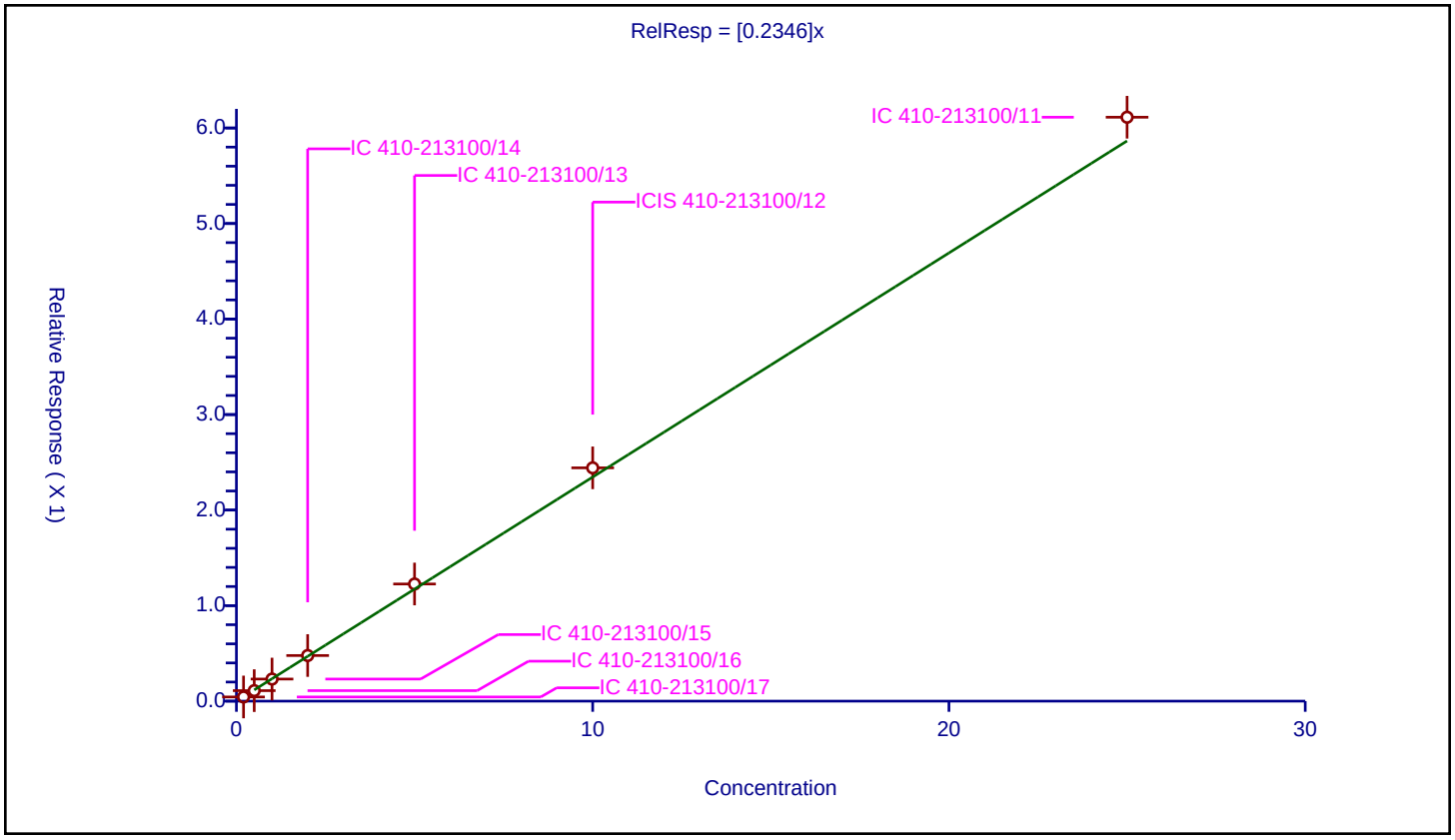
Curve Coefficients

Intercept:	0
Slope:	0.2346

Error Coefficients

Standard Error:	651000
Relative Standard Error:	5.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.043669	10.0	2322487.0	0.218344	Y
2	IC 410-213100/16	0.5	0.109921	10.0	2304387.0	0.219842	Y
3	IC 410-213100/15	1.0	0.231275	10.0	2305396.0	0.231275	Y
4	IC 410-213100/14	2.0	0.477385	10.0	2301914.0	0.238693	Y
5	IC 410-213100/13	5.0	1.226484	10.0	2337780.0	0.245297	Y
6	ICIS 410-213100/12	10.0	2.442226	10.0	2348513.0	0.244223	Y
7	IC 410-213100/11	25.0	6.112616	10.0	2378237.0	0.244505	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

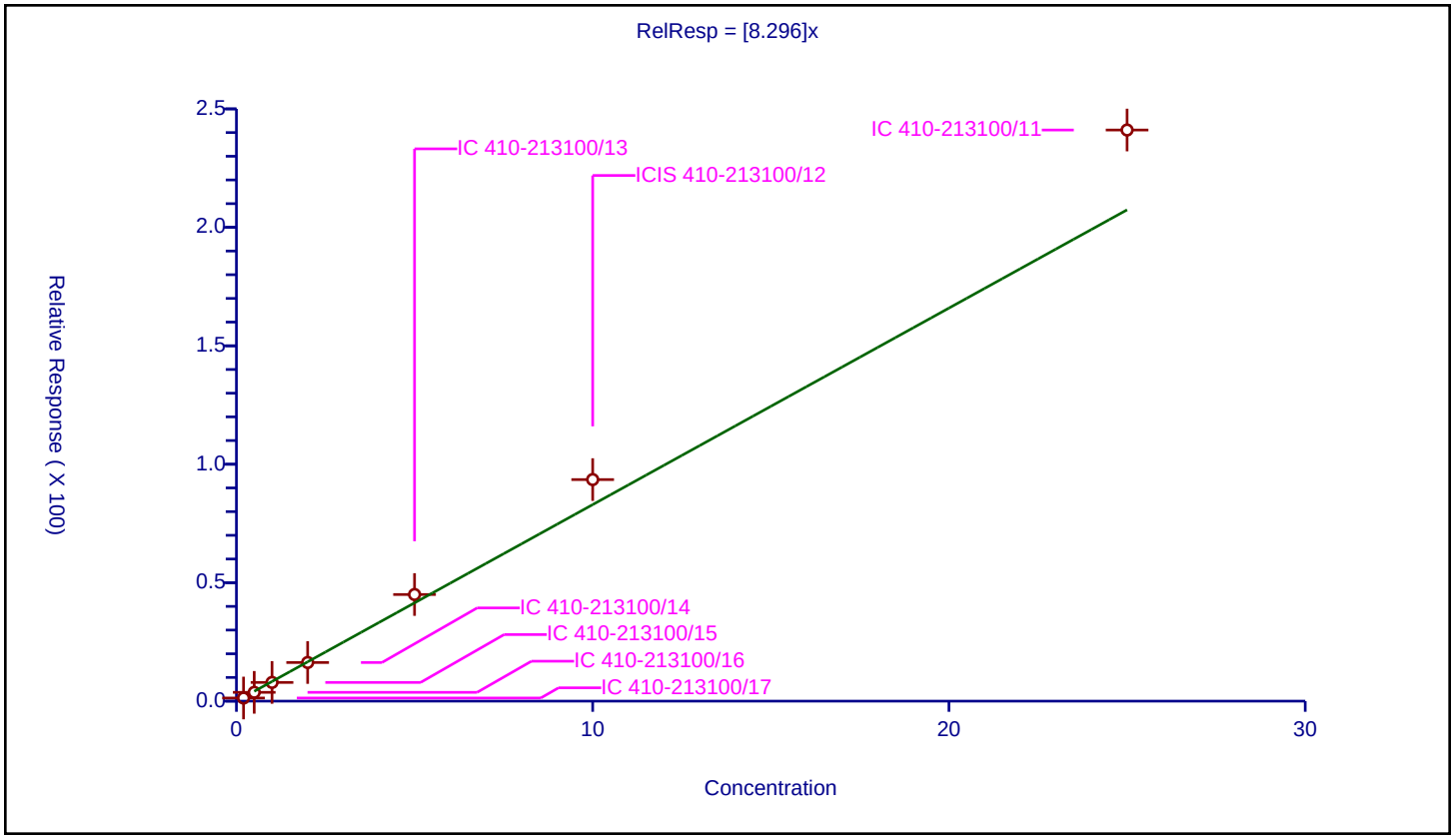
Curve Coefficients

Intercept:	0
Slope:	8.296

Error Coefficients

Standard Error:	352000
Relative Standard Error:	13.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	1.316349	50.0	169370.0	6.581744	Y
2	IC 410-213100/16	0.5	3.717714	50.0	173413.0	7.435429	Y
3	IC 410-213100/15	1.0	7.899671	50.0	174406.0	7.899671	Y
4	IC 410-213100/14	2.0	16.309206	50.0	178108.0	8.154603	Y
5	IC 410-213100/13	5.0	45.013489	50.0	171994.0	9.002698	Y
6	ICIS 410-213100/12	10.0	93.526171	50.0	169884.0	9.352617	Y
7	IC 410-213100/11	25.0	241.08865	50.0	162798.0	9.643546	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

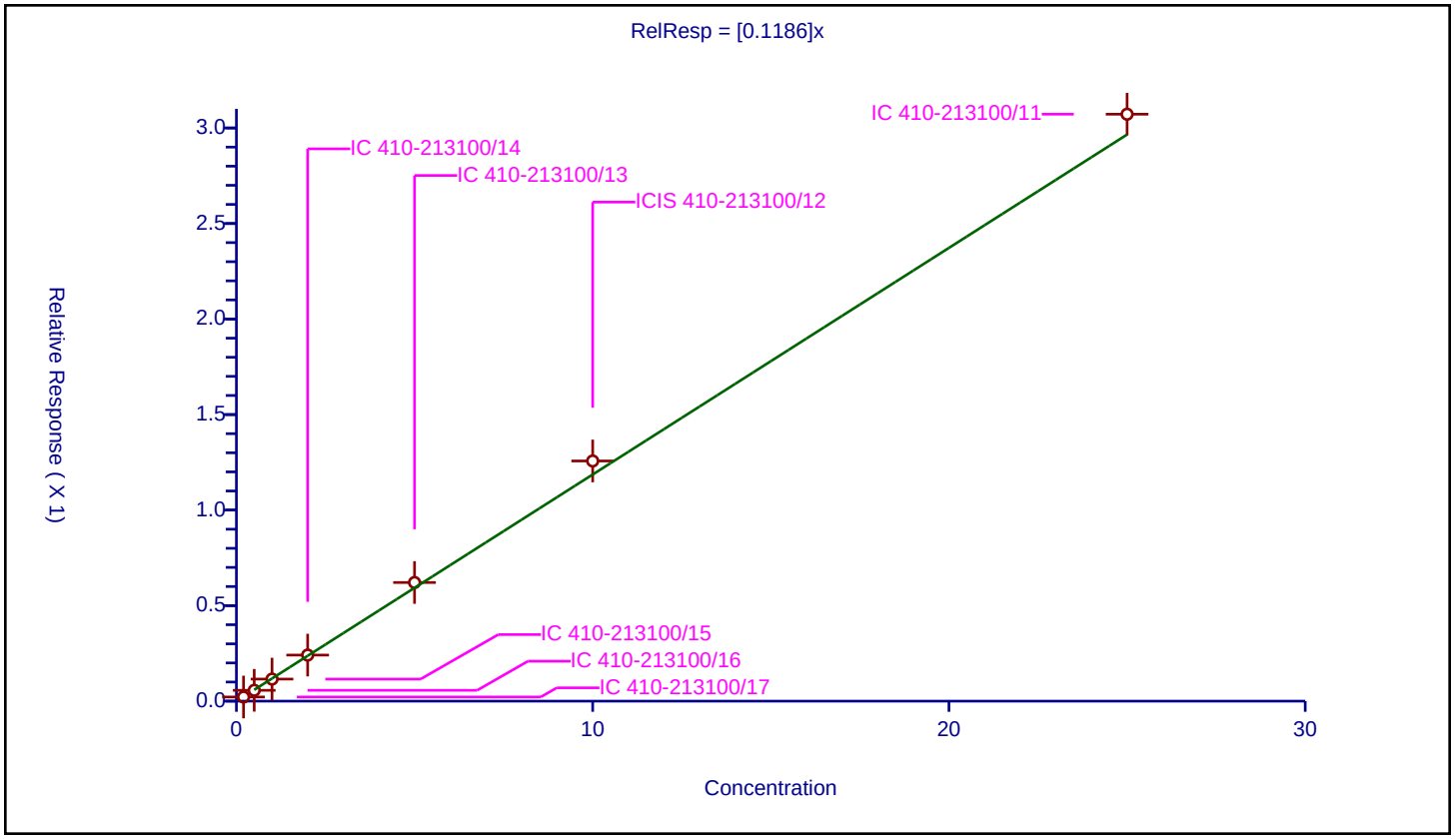
Curve Coefficients

Intercept:	0
Slope:	0.1186

Error Coefficients

Standard Error:	328000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.021649	10.0	2322487.0	0.108246	Y
2	IC 410-213100/16	0.5	0.056622	10.0	2304387.0	0.113245	Y
3	IC 410-213100/15	1.0	0.115516	10.0	2305396.0	0.115516	Y
4	IC 410-213100/14	2.0	0.241099	10.0	2301914.0	0.12055	Y
5	IC 410-213100/13	5.0	0.621004	10.0	2337780.0	0.124201	Y
6	ICIS 410-213100/12	10.0	1.257153	10.0	2348513.0	0.125715	Y
7	IC 410-213100/11	25.0	3.072099	10.0	2378237.0	0.122884	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

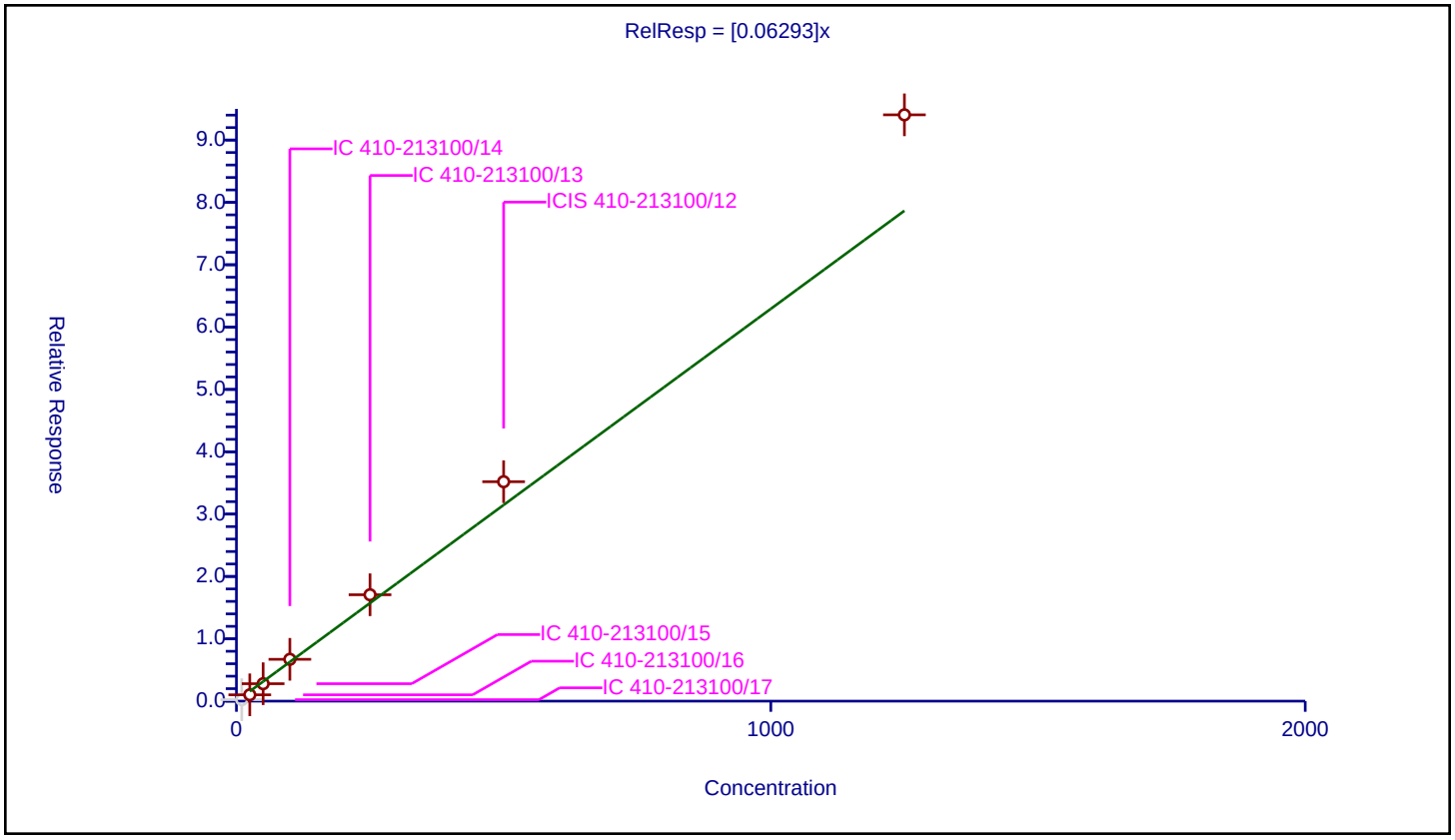
Curve Coefficients

Intercept:	0
Slope:	0.06293

Error Coefficients

Standard Error:	150000
Relative Standard Error:	20.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.954

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	10.0	0.231446	50.0	169370.0	0.023145	N
2	IC 410-213100/16	25.0	1.016071	50.0	173413.0	0.040643	Y
3	IC 410-213100/15	50.0	2.796349	50.0	174406.0	0.055927	Y
4	IC 410-213100/14	100.0	6.711658	50.0	178108.0	0.067117	Y
5	IC 410-213100/13	250.0	17.063967	50.0	171994.0	0.068256	Y
6	ICIS 410-213100/12	500.0	35.197252	50.0	169884.0	0.070395	Y
7	IC 410-213100/11	1250.0	94.047224	50.0	162798.0	0.075238	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

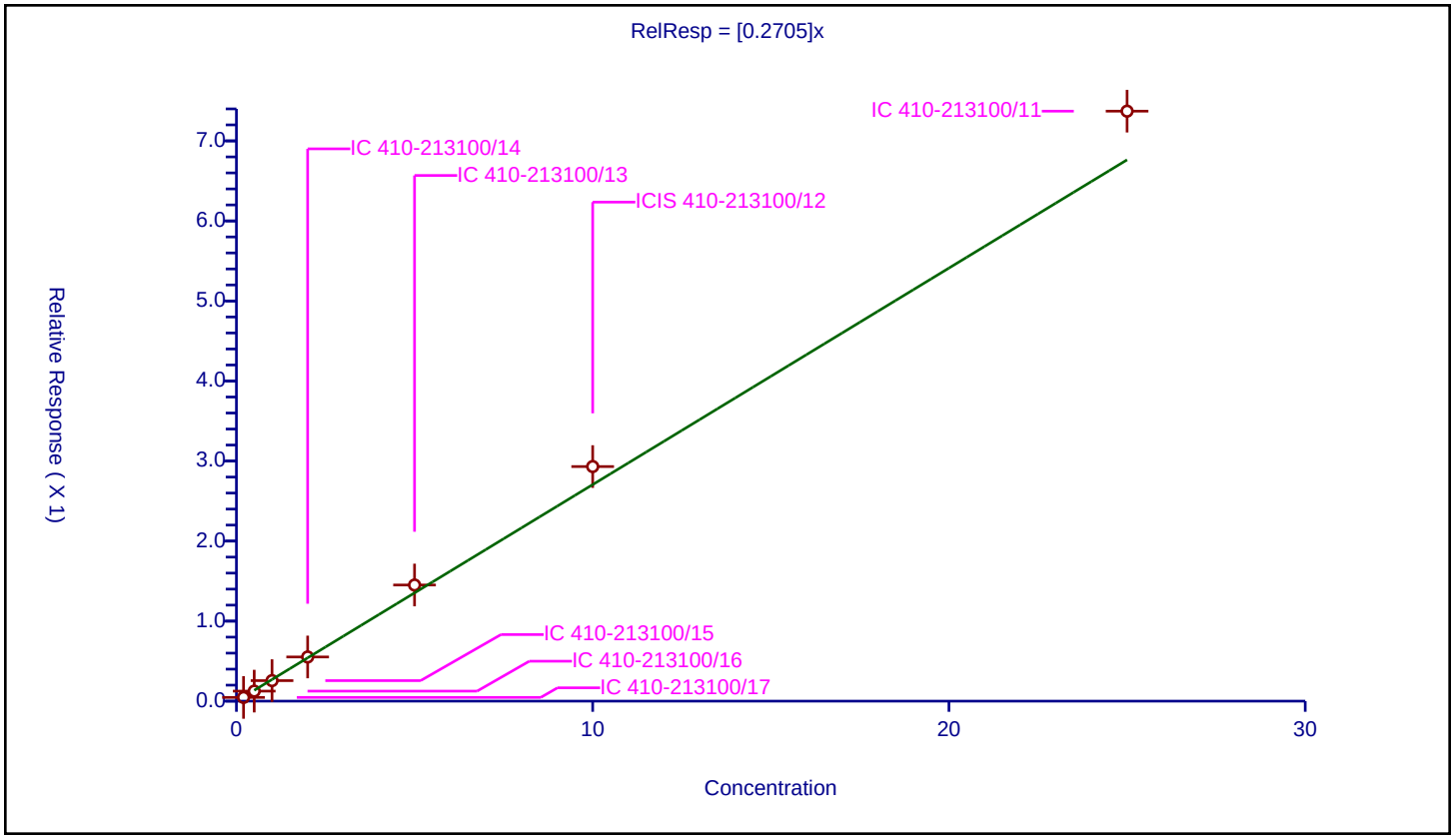
Curve Coefficients

Intercept:	0
Slope:	0.2705

Error Coefficients

Standard Error:	783000
Relative Standard Error:	9.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.046575	10.0	2322487.0	0.232875	Y
2	IC 410-213100/16	0.5	0.125274	10.0	2304387.0	0.250548	Y
3	IC 410-213100/15	1.0	0.256333	10.0	2305396.0	0.256333	Y
4	IC 410-213100/14	2.0	0.55181	10.0	2301914.0	0.275905	Y
5	IC 410-213100/13	5.0	1.45106	10.0	2337780.0	0.290212	Y
6	ICIS 410-213100/12	10.0	2.930931	10.0	2348513.0	0.293093	Y
7	IC 410-213100/11	25.0	7.371734	10.0	2378237.0	0.294869	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

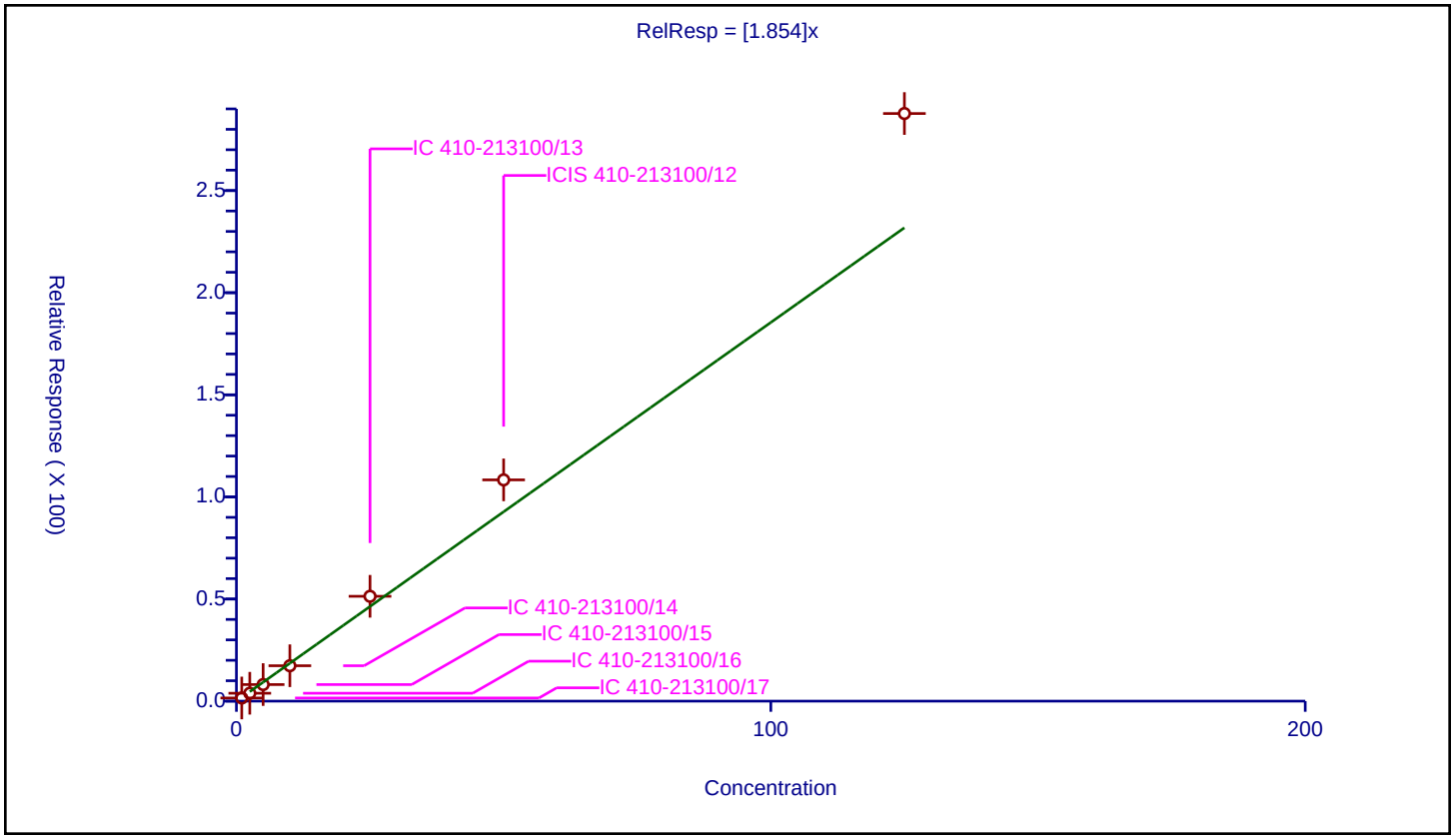
Curve Coefficients

Intercept:	0
Slope:	1.854

Error Coefficients

Standard Error:	418000
Relative Standard Error:	16.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.967

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	1.0	1.551042	50.0	169370.0	1.551042	Y
2	IC 410-213100/16	2.5	3.873124	50.0	173413.0	1.549249	Y
3	IC 410-213100/15	5.0	8.123	50.0	174406.0	1.6246	Y
4	IC 410-213100/14	10.0	17.33583	50.0	178108.0	1.733583	Y
5	IC 410-213100/13	25.0	51.337547	50.0	171994.0	2.053502	Y
6	ICIS 410-213100/12	50.0	108.341574	50.0	169884.0	2.166831	Y
7	IC 410-213100/11	125.0	287.731729	50.0	162798.0	2.301854	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

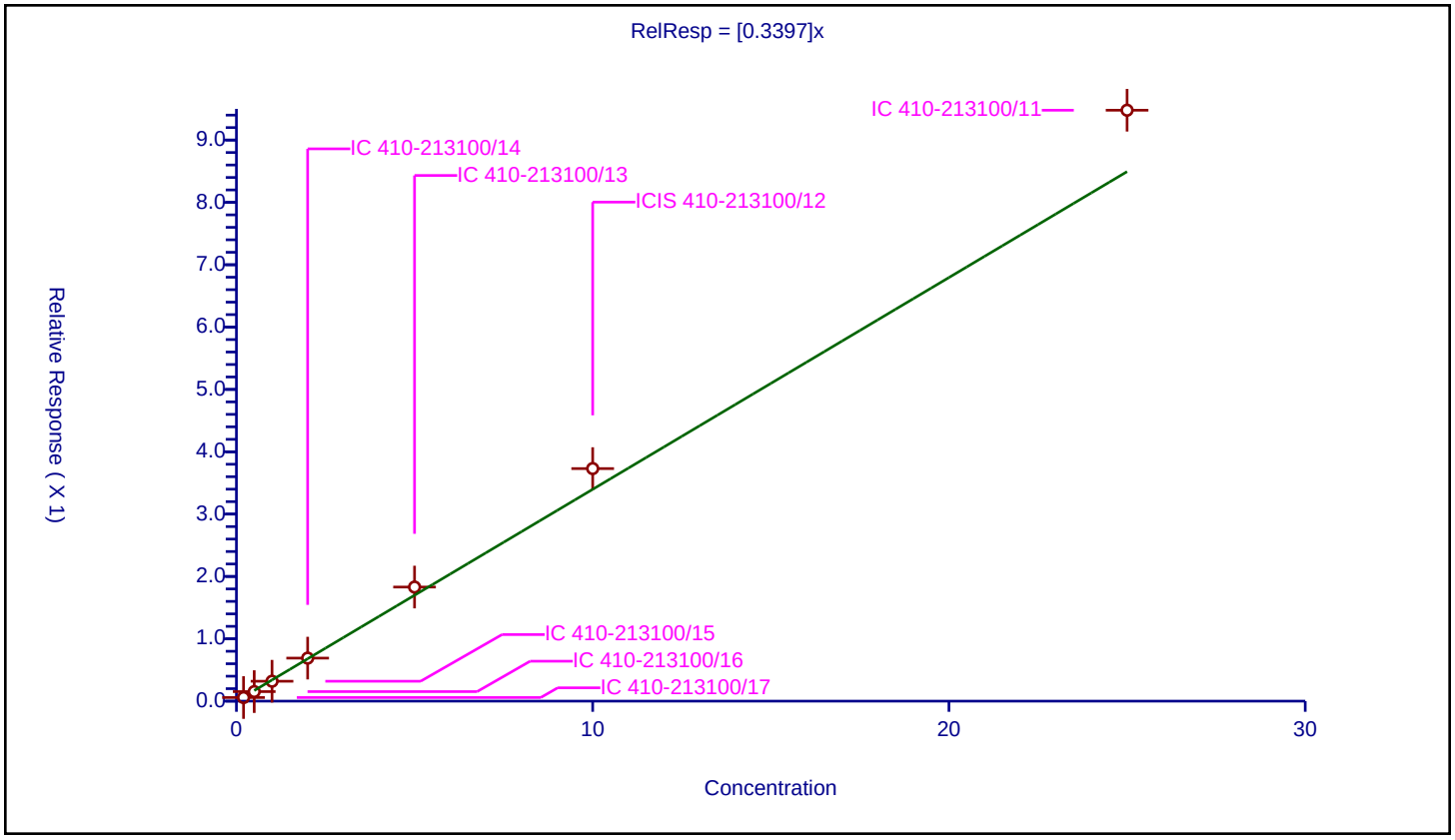
Curve Coefficients

Intercept:	0
Slope:	0.3397

Error Coefficients

Standard Error:	1010000
Relative Standard Error:	10.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.0578	10.0	2322487.0	0.289001	Y
2	IC 410-213100/16	0.5	0.153342	10.0	2304387.0	0.306685	Y
3	IC 410-213100/15	1.0	0.319268	10.0	2305396.0	0.319268	Y
4	IC 410-213100/14	2.0	0.69023	10.0	2301914.0	0.345115	Y
5	IC 410-213100/13	5.0	1.829886	10.0	2337780.0	0.365977	Y
6	ICIS 410-213100/12	10.0	3.730407	10.0	2348513.0	0.373041	Y
7	IC 410-213100/11	25.0	9.478799	10.0	2378237.0	0.379152	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

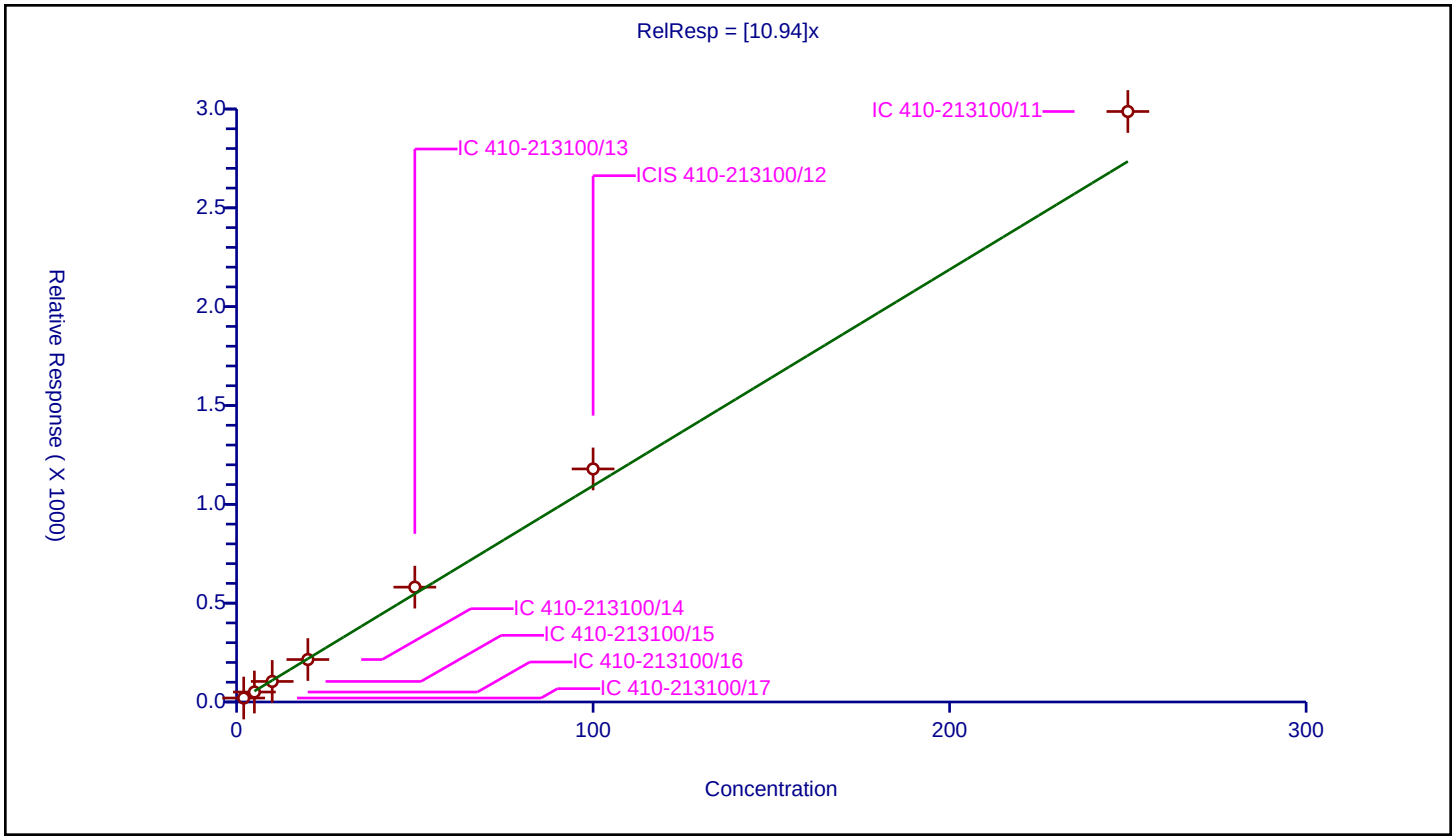
Curve Coefficients

Intercept:	0
Slope:	10.94

Error Coefficients

Standard Error:	4380000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	2.0	20.001476	50.0	169370.0	10.000738	Y
2	IC 410-213100/16	5.0	50.371656	50.0	173413.0	10.074331	Y
3	IC 410-213100/15	10.0	103.9603	50.0	174406.0	10.39603	Y
4	IC 410-213100/14	20.0	214.853909	50.0	178108.0	10.742695	Y
5	IC 410-213100/13	50.0	581.048176	50.0	171994.0	11.620964	Y
6	ICIS 410-213100/12	100.0	1179.09603	50.0	169884.0	11.79096	Y
7	IC 410-213100/11	250.0	2987.48879	50.0	162798.0	11.949955	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

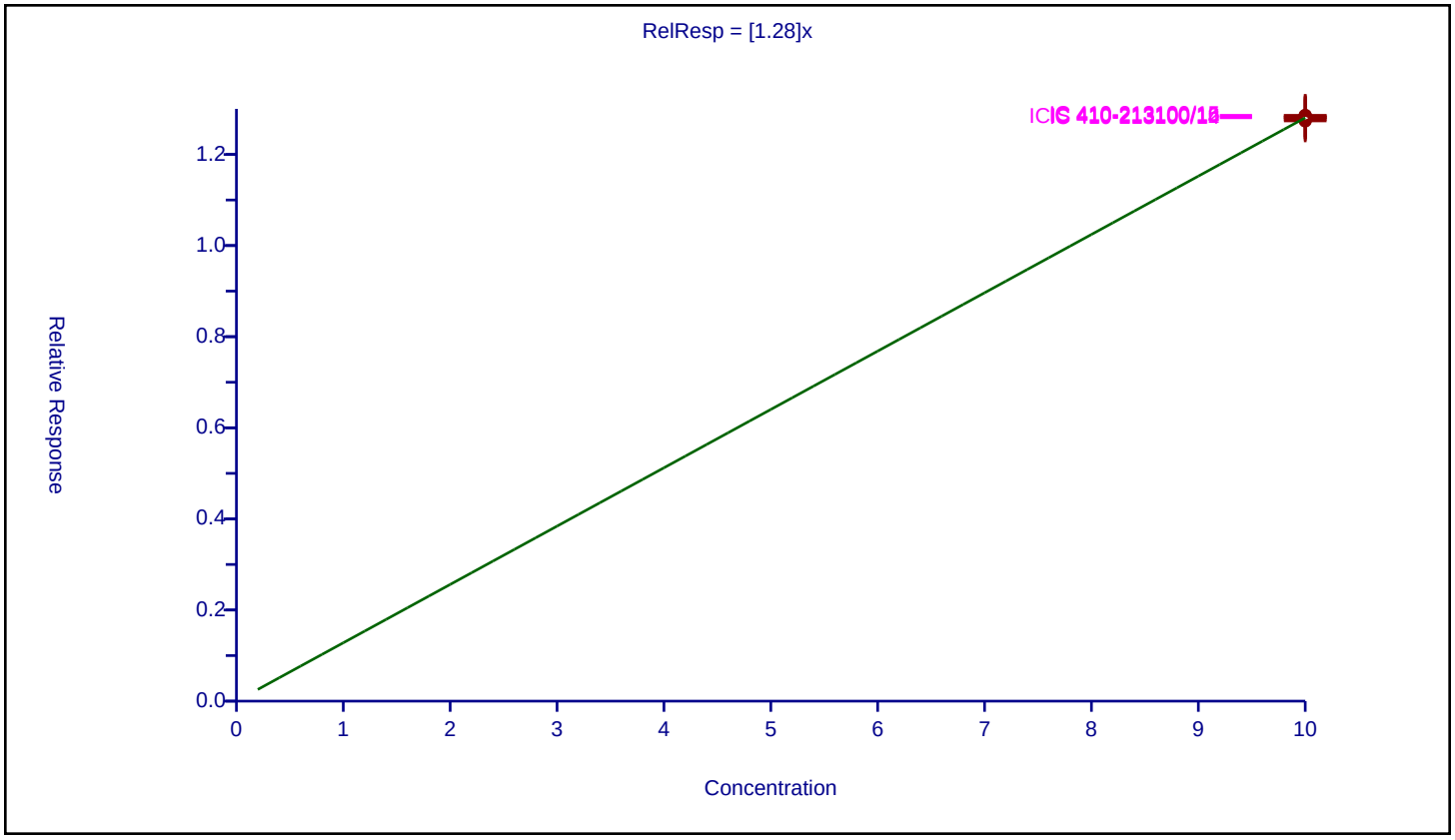
Curve Coefficients

Intercept:	0
Slope:	1.28

Error Coefficients

Standard Error:	2450000
Relative Standard Error:	0.3
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/11	10.0	12.798826	10.0	1810931.0	1.279883	Y
2	ICIS 410-213100/12	10.0	12.817192	10.0	1782740.0	1.281719	Y
3	IC 410-213100/13	10.0	12.767121	10.0	1788606.0	1.276712	Y
4	IC 410-213100/14	10.0	12.805408	10.0	1754782.0	1.280541	Y
5	IC 410-213100/15	10.0	12.855173	10.0	1750307.0	1.285517	Y
6	IC 410-213100/16	10.0	12.851344	10.0	1750245.0	1.285134	Y
7	IC 410-213100/17	10.0	12.736509	10.0	1759713.0	1.273651	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

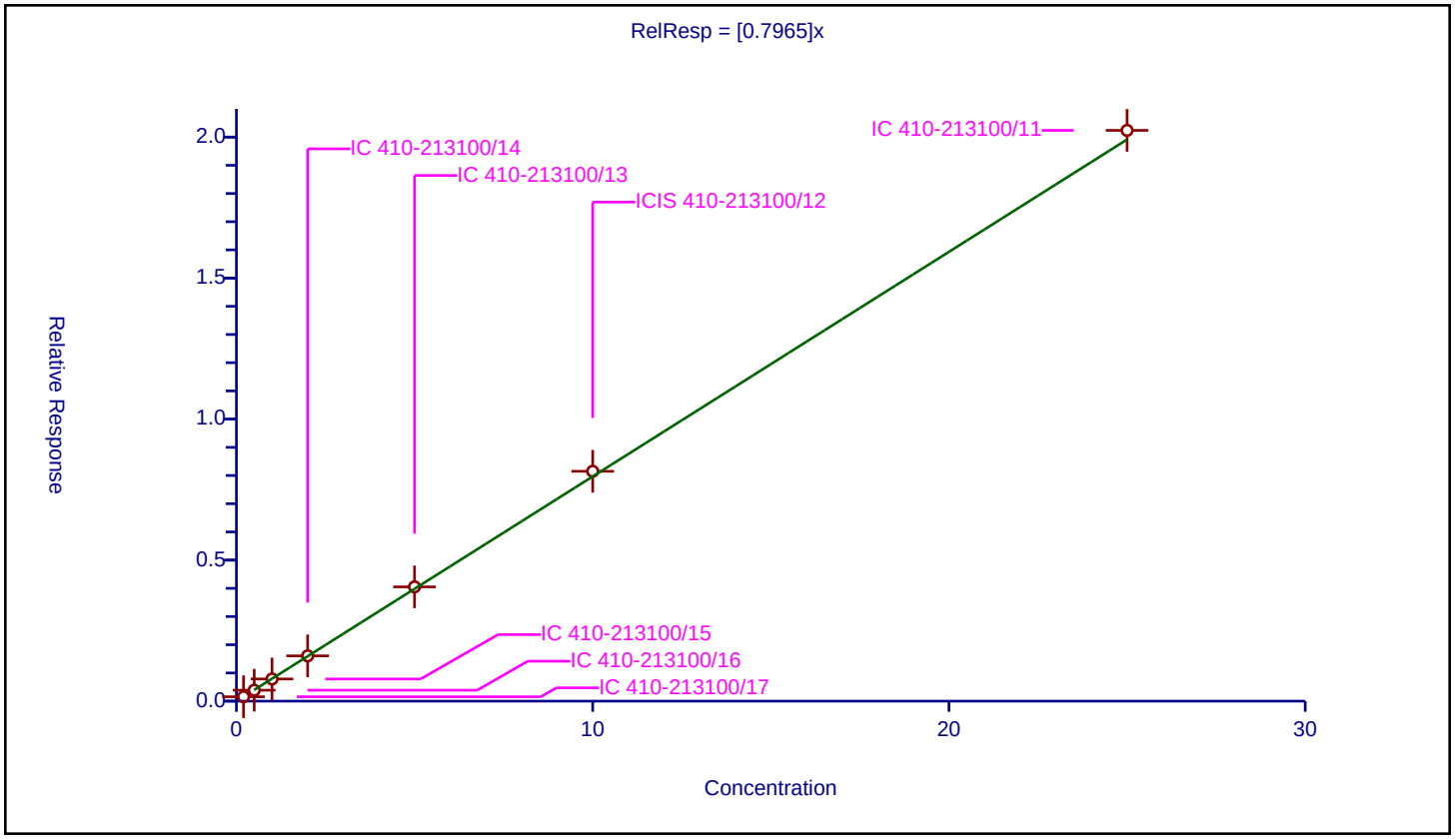
Curve Coefficients

Intercept:	0
Slope:	0.7965

Error Coefficients

Standard Error:	1640000
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.155412	10.0	1759713.0	0.777059	Y
2	IC 410-213100/16	0.5	0.38726	10.0	1750245.0	0.77452	Y
3	IC 410-213100/15	1.0	0.786245	10.0	1750307.0	0.786245	Y
4	IC 410-213100/14	2.0	1.605949	10.0	1754782.0	0.802974	Y
5	IC 410-213100/13	5.0	4.052195	10.0	1788606.0	0.810439	Y
6	ICIS 410-213100/12	10.0	8.150751	10.0	1782740.0	0.815075	Y
7	IC 410-213100/11	25.0	20.237789	10.0	1810931.0	0.809512	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

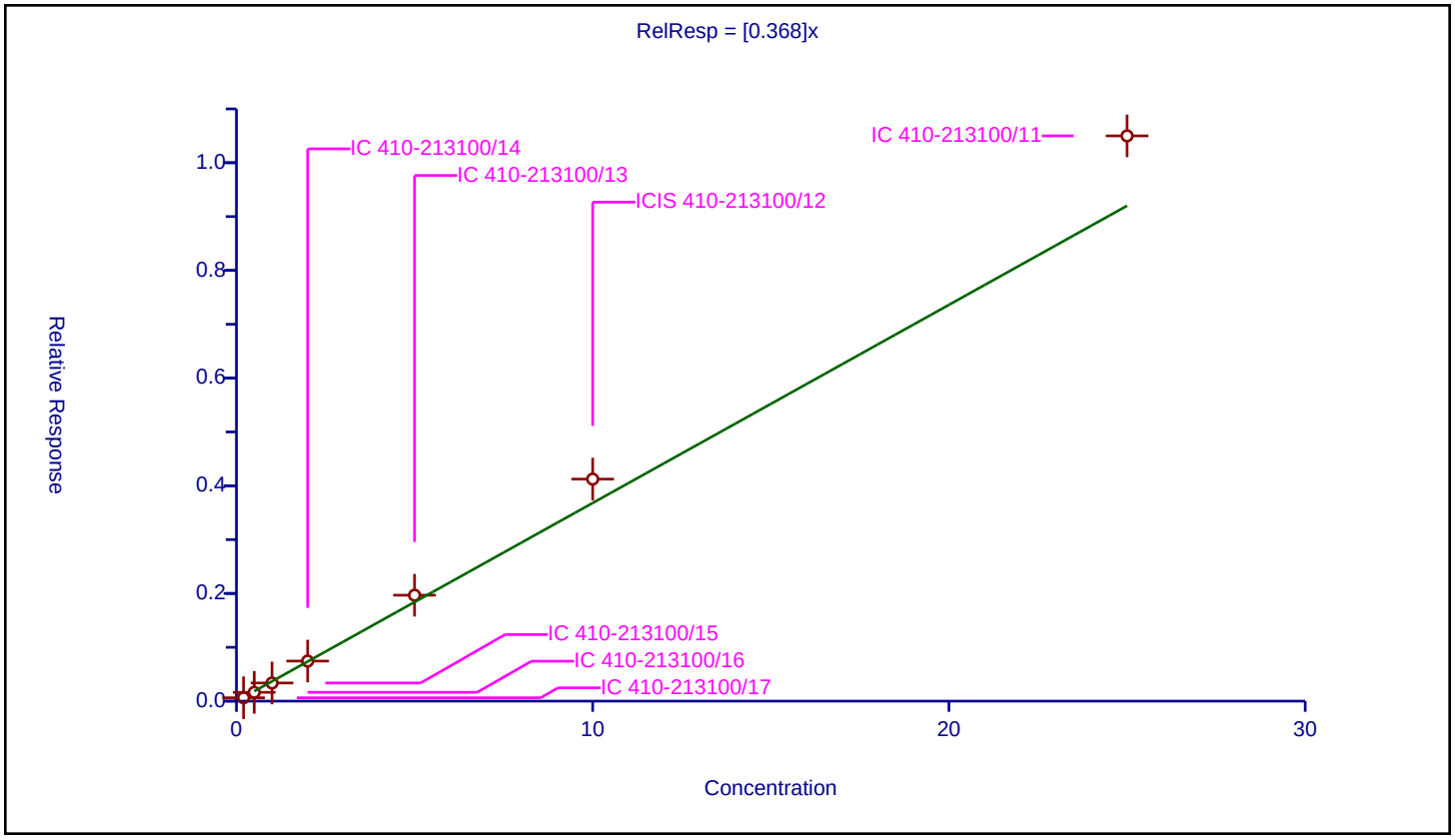
Curve Coefficients

Intercept:	0
Slope:	0.368

Error Coefficients

Standard Error:	847000
Relative Standard Error:	11.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.062732	10.0	1759713.0	0.313659	Y
2	IC 410-213100/16	0.5	0.163623	10.0	1750245.0	0.327246	Y
3	IC 410-213100/15	1.0	0.337341	10.0	1750307.0	0.337341	Y
4	IC 410-213100/14	2.0	0.744178	10.0	1754782.0	0.372089	Y
5	IC 410-213100/13	5.0	1.967745	10.0	1788606.0	0.393549	Y
6	ICIS 410-213100/12	10.0	4.123776	10.0	1782740.0	0.412378	Y
7	IC 410-213100/11	25.0	10.498975	10.0	1810931.0	0.419959	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

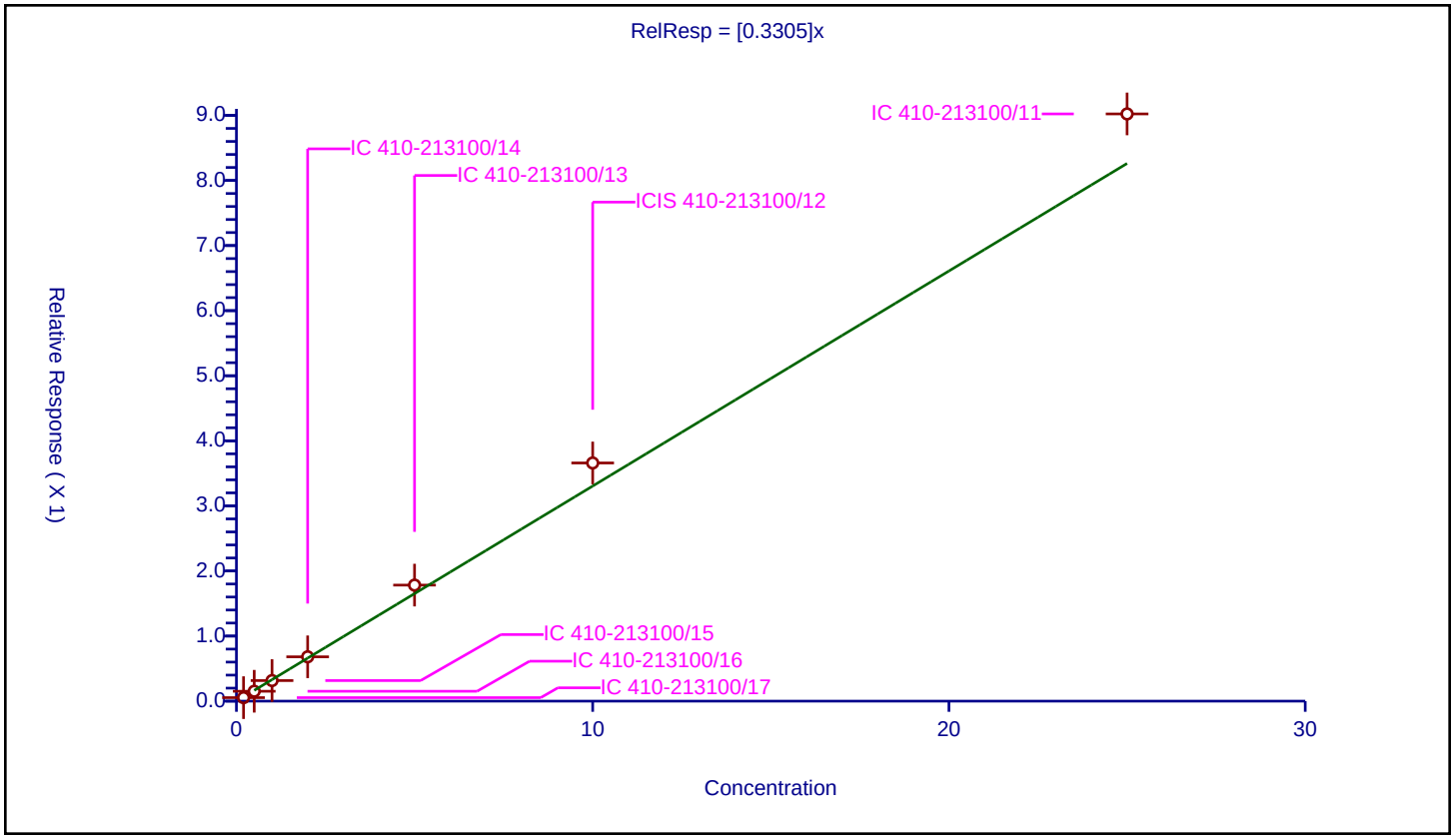
Curve Coefficients

Intercept:	0
Slope:	0.3305

Error Coefficients

Standard Error:	732000
Relative Standard Error:	10.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.053759	10.0	1759713.0	0.268794	Y
2	IC 410-213100/16	0.5	0.152224	10.0	1750245.0	0.304449	Y
3	IC 410-213100/15	1.0	0.316002	10.0	1750307.0	0.316002	Y
4	IC 410-213100/14	2.0	0.681281	10.0	1754782.0	0.340641	Y
5	IC 410-213100/13	5.0	1.782908	10.0	1788606.0	0.356582	Y
6	ICIS 410-213100/12	10.0	3.659575	10.0	1782740.0	0.365957	Y
7	IC 410-213100/11	25.0	9.02274	10.0	1810931.0	0.36091	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

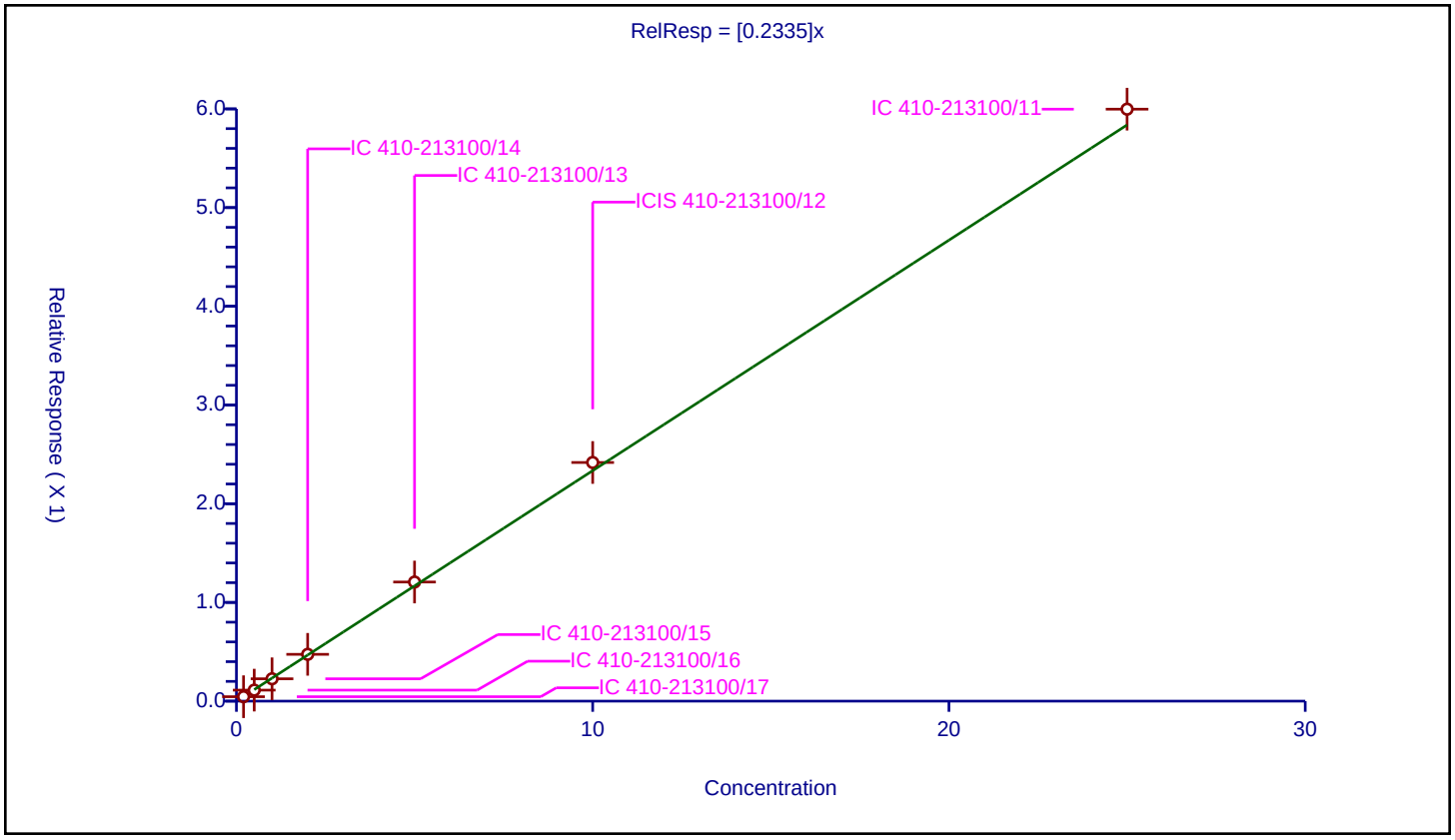
Curve Coefficients

Intercept:	0
Slope:	0.2335

Error Coefficients

Standard Error:	487000
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 410-213100/17	0.2	0.044916	10.0	1759713.0	0.224582	Y
2	IC 410-213100/16	0.5	0.111636	10.0	1750245.0	0.223272	Y
3	IC 410-213100/15	1.0	0.226577	10.0	1750307.0	0.226577	Y
4	IC 410-213100/14	2.0	0.474127	10.0	1754782.0	0.237064	Y
5	IC 410-213100/13	5.0	1.206823	10.0	1788606.0	0.241365	Y
6	ICIS 410-213100/12	10.0	2.417773	10.0	1782740.0	0.241777	Y
7	IC 410-213100/11	25.0	5.997219	10.0	1810931.0	0.239889	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

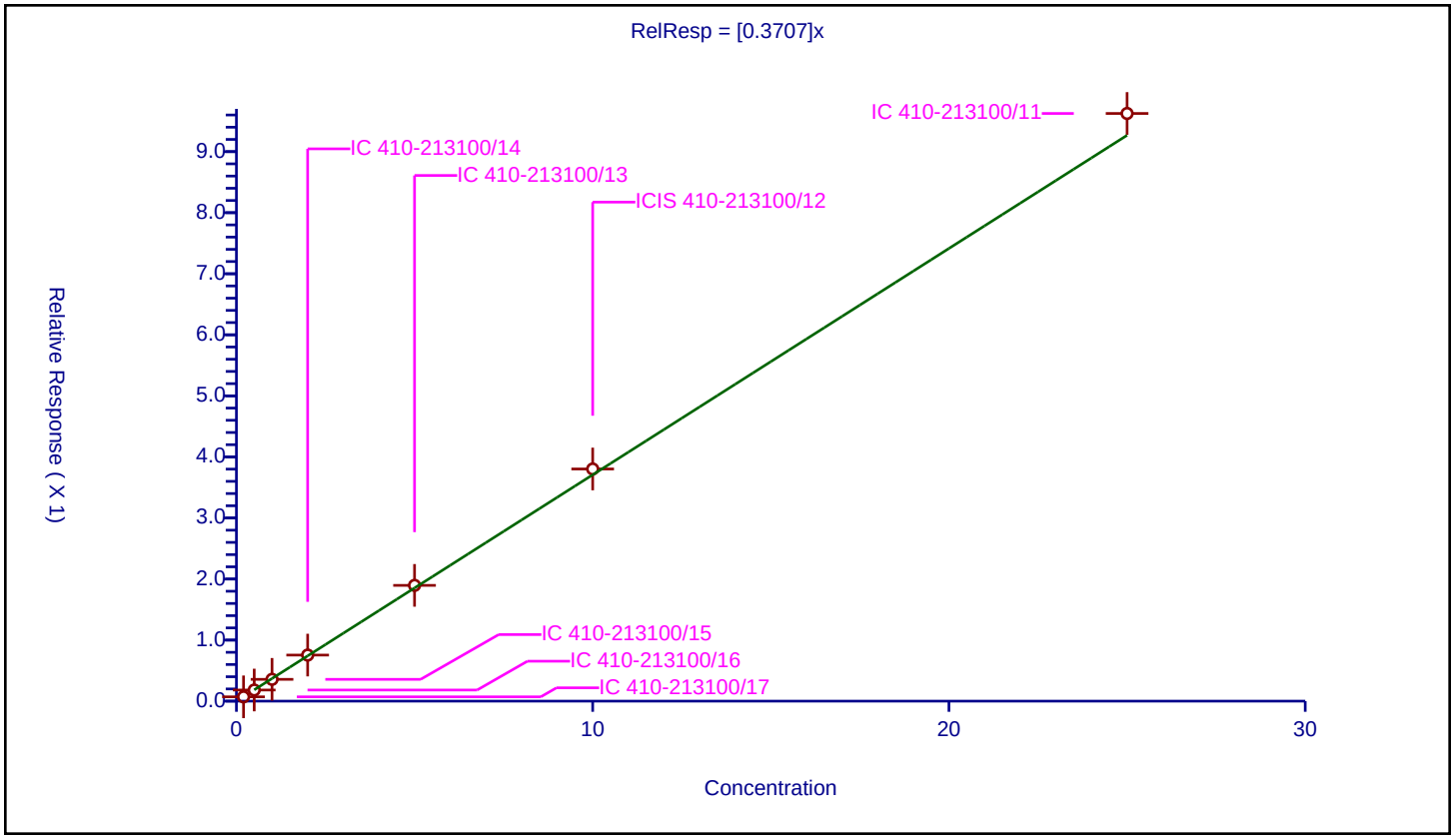
Curve Coefficients

Intercept:	0
Slope:	0.3707

Error Coefficients

Standard Error:	778000
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 410-213100/17	0.2	0.070369	10.0	1759713.0	0.351847	Y
2	IC 410-213100/16	0.5	0.182135	10.0	1750245.0	0.364269	Y
3	IC 410-213100/15	1.0	0.357154	10.0	1750307.0	0.357154	Y
4	IC 410-213100/14	2.0	0.754396	10.0	1754782.0	0.377198	Y
5	IC 410-213100/13	5.0	1.896147	10.0	1788606.0	0.379229	Y
6	ICIS 410-213100/12	10.0	3.802254	10.0	1782740.0	0.380225	Y
7	IC 410-213100/11	25.0	9.624977	10.0	1810931.0	0.384999	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

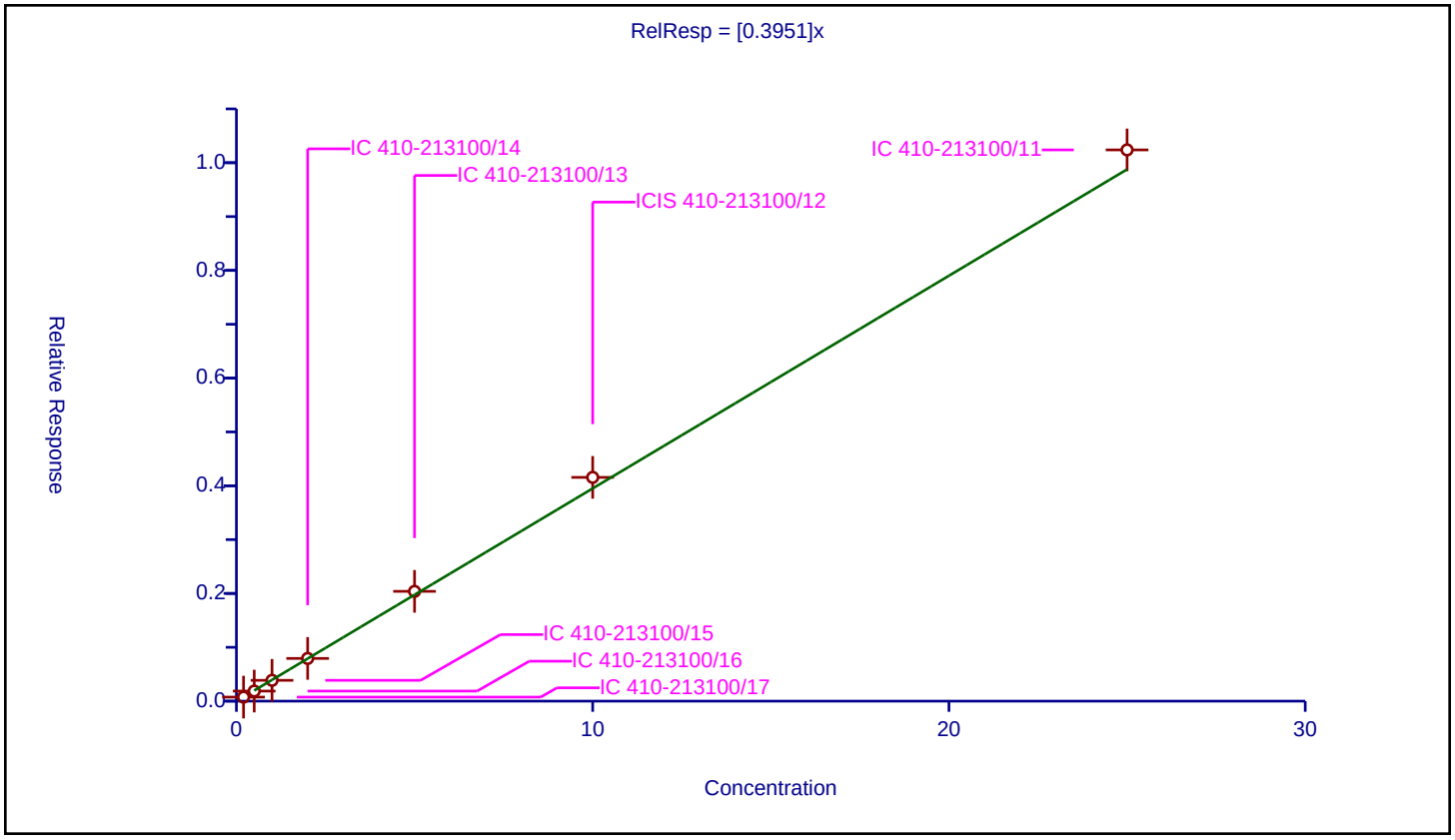
Curve Coefficients

Intercept:	0
Slope:	0.3951

Error Coefficients

Standard Error:	831000
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 410-213100/17	0.2	0.074972	10.0	1759713.0	0.374862	Y
2	IC 410-213100/16	0.5	0.187094	10.0	1750245.0	0.374188	Y
3	IC 410-213100/15	1.0	0.386698	10.0	1750307.0	0.386698	Y
4	IC 410-213100/14	2.0	0.793386	10.0	1754782.0	0.396693	Y
5	IC 410-213100/13	5.0	2.039309	10.0	1788606.0	0.407862	Y
6	ICIS 410-213100/12	10.0	4.155934	10.0	1782740.0	0.415593	Y
7	IC 410-213100/11	25.0	10.238038	10.0	1810931.0	0.409522	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

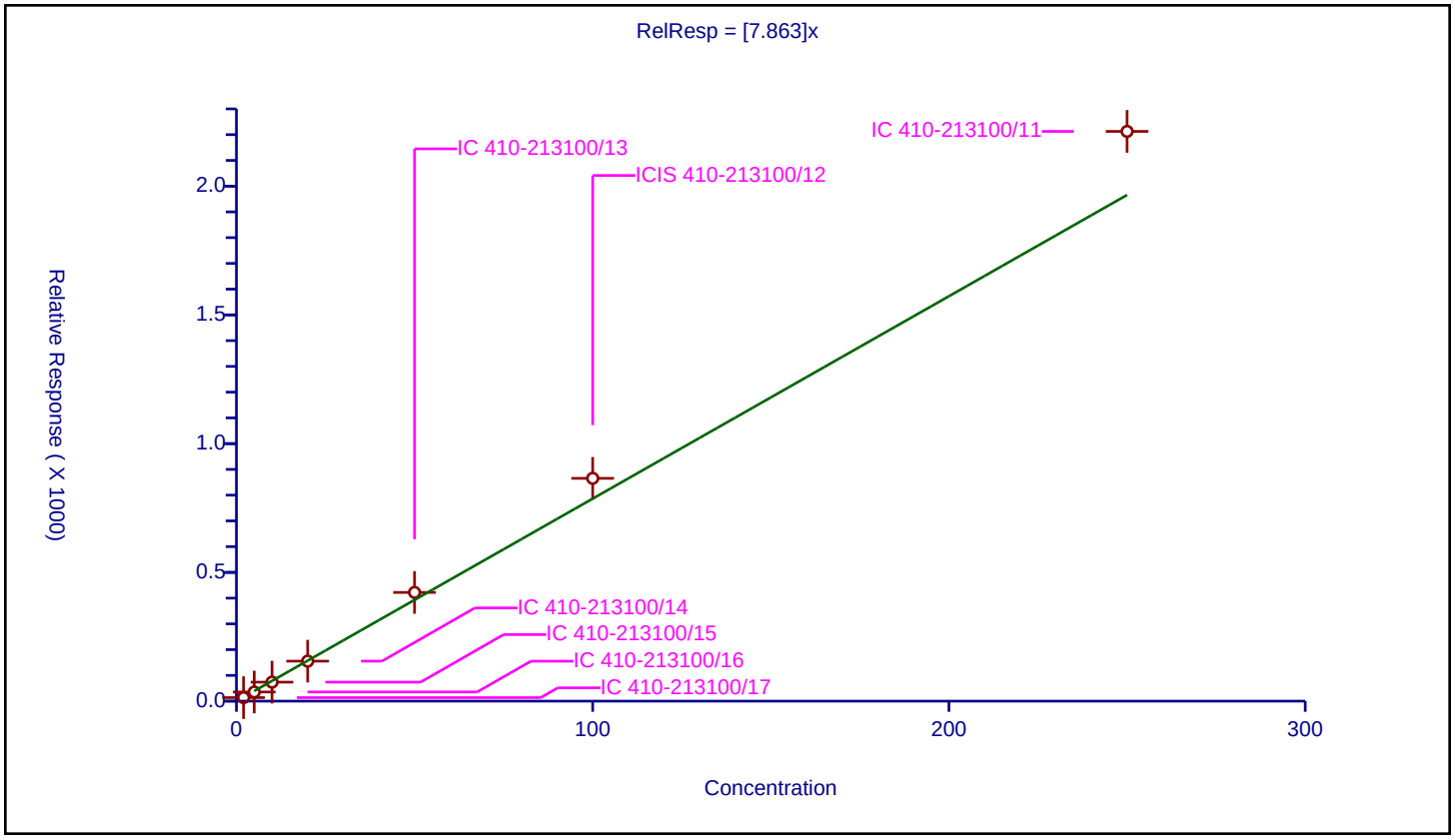
Curve Coefficients

Intercept:	0
Slope:	7.863

Error Coefficients

Standard Error:	3240000
Relative Standard Error:	10.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	2.0	13.693393	50.0	169370.0	6.846697	Y
2	IC 410-213100/16	5.0	35.515215	50.0	173413.0	7.103043	Y
3	IC 410-213100/15	10.0	73.805947	50.0	174406.0	7.380595	Y
4	IC 410-213100/14	20.0	155.255238	50.0	178108.0	7.762762	Y
5	IC 410-213100/13	50.0	422.200193	50.0	171994.0	8.444004	Y
6	ICIS 410-213100/12	100.0	865.272774	50.0	169884.0	8.652728	Y
7	IC 410-213100/11	250.0	2212.572636	50.0	162798.0	8.850291	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

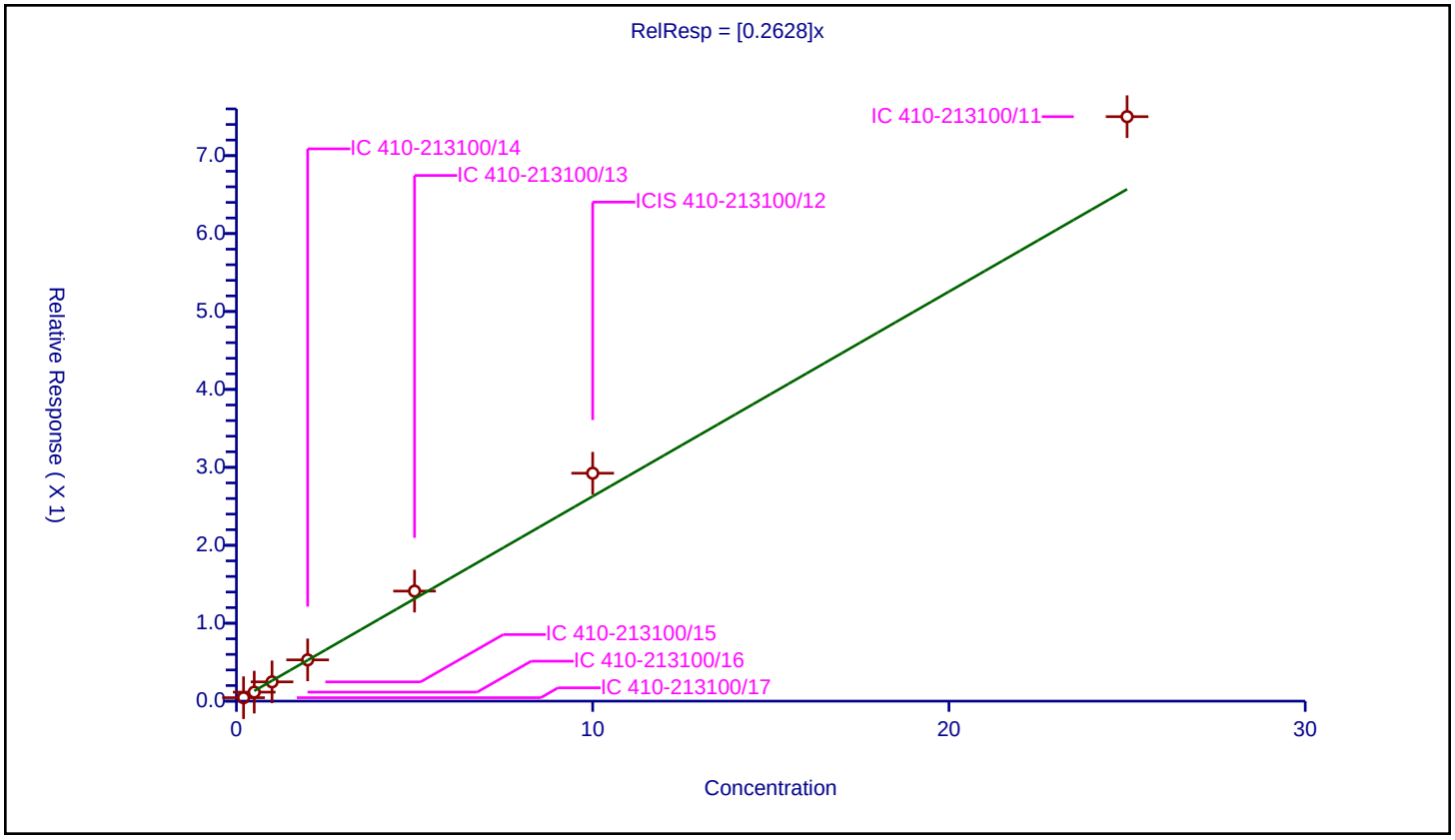
Curve Coefficients

Intercept:	0
Slope:	0.2628

Error Coefficients

Standard Error:	604000
Relative Standard Error:	11.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.044166	10.0	1759713.0	0.220831	Y
2	IC 410-213100/16	0.5	0.115829	10.0	1750245.0	0.231659	Y
3	IC 410-213100/15	1.0	0.247197	10.0	1750307.0	0.247197	Y
4	IC 410-213100/14	2.0	0.529467	10.0	1754782.0	0.264734	Y
5	IC 410-213100/13	5.0	1.412178	10.0	1788606.0	0.282436	Y
6	ICIS 410-213100/12	10.0	2.924891	10.0	1782740.0	0.292489	Y
7	IC 410-213100/11	25.0	7.500214	10.0	1810931.0	0.300009	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

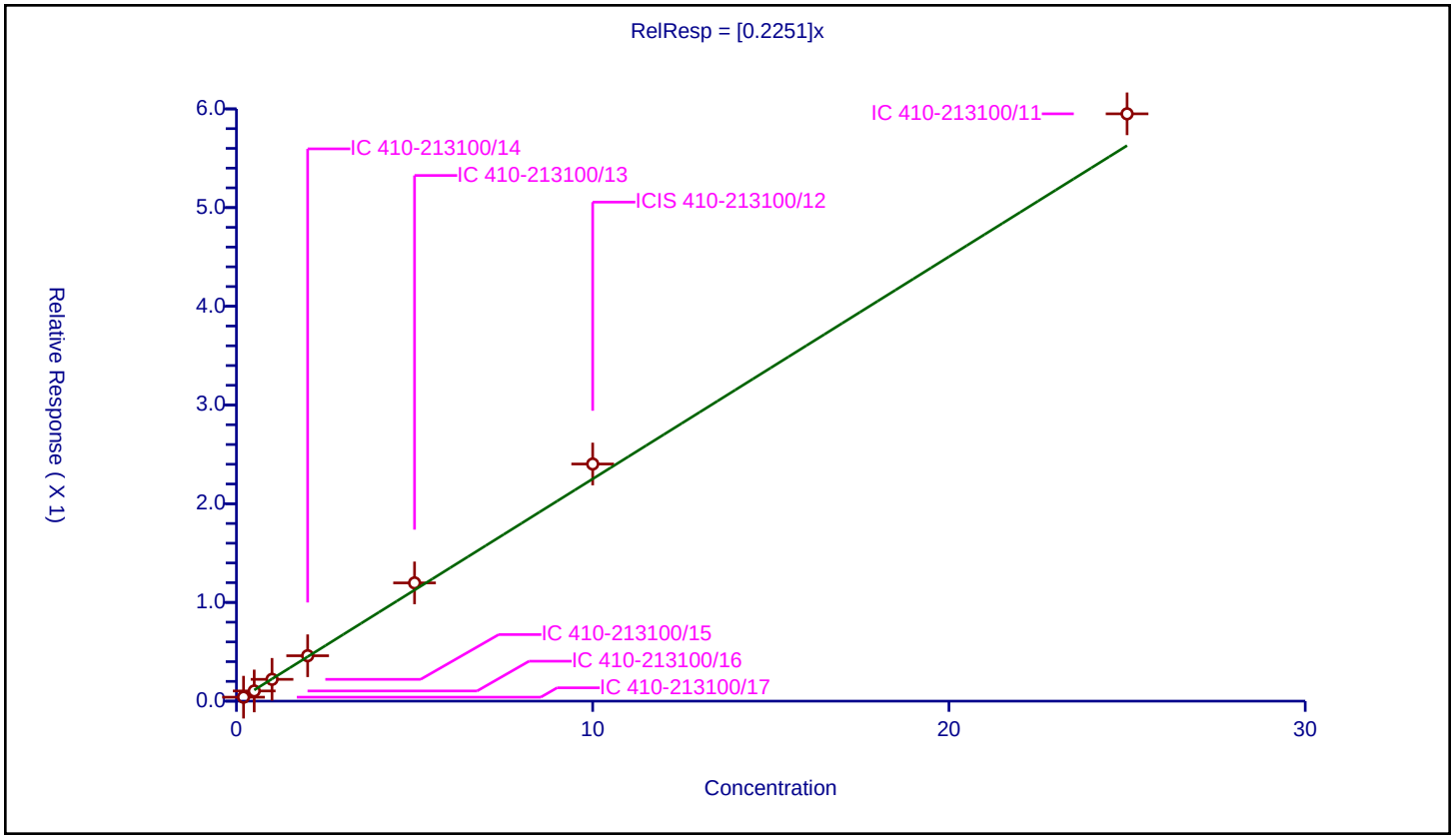
Curve Coefficients

Intercept:	0
Slope:	0.2251

Error Coefficients

Standard Error:	483000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.040097	10.0	1759713.0	0.200487	Y
2	IC 410-213100/16	0.5	0.10334	10.0	1750245.0	0.20668	Y
3	IC 410-213100/15	1.0	0.220967	10.0	1750307.0	0.220967	Y
4	IC 410-213100/14	2.0	0.459966	10.0	1754782.0	0.229983	Y
5	IC 410-213100/13	5.0	1.197838	10.0	1788606.0	0.239568	Y
6	ICIS 410-213100/12	10.0	2.402504	10.0	1782740.0	0.24025	Y
7	IC 410-213100/11	25.0	5.949978	10.0	1810931.0	0.237999	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

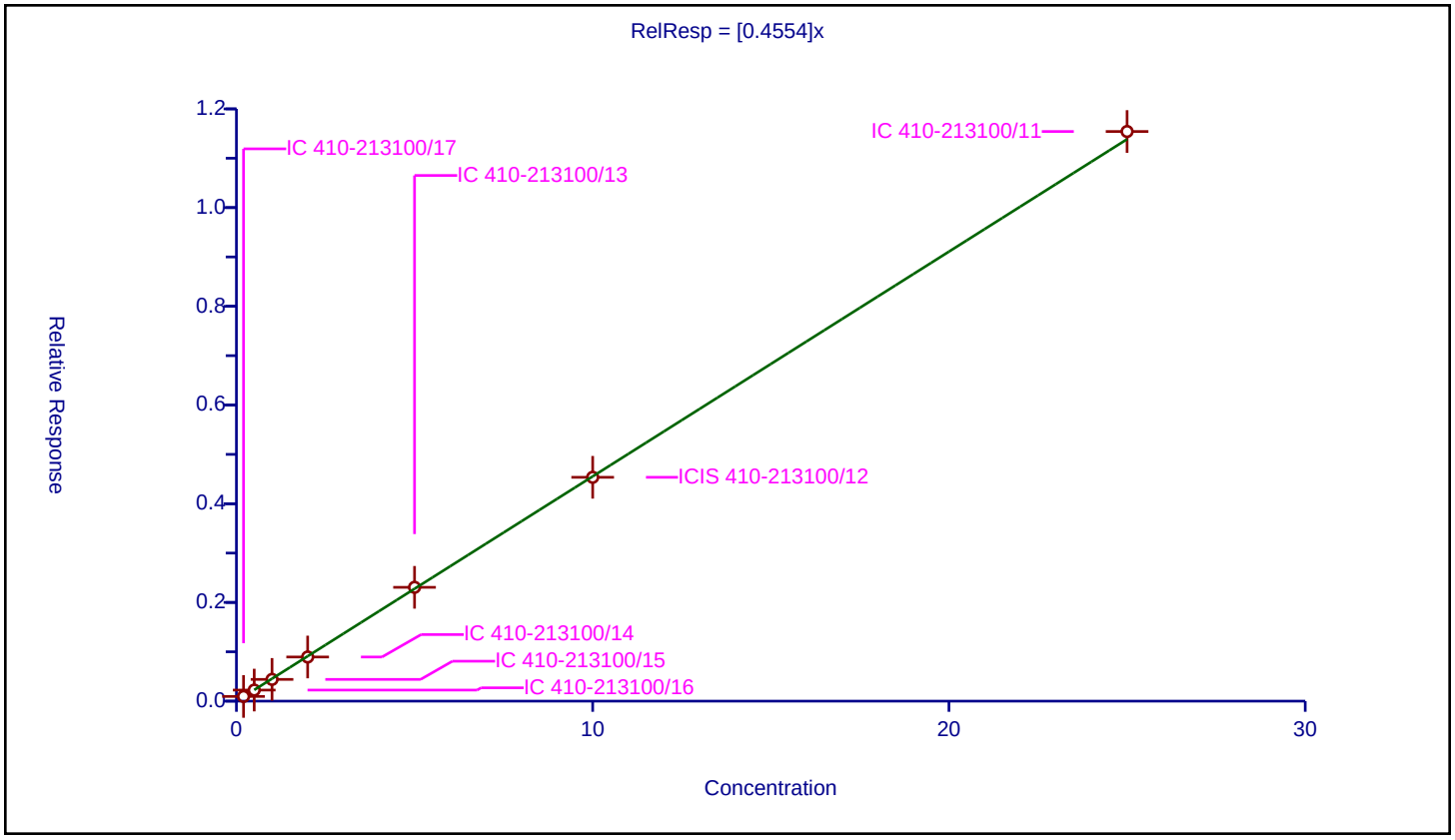
Curve Coefficients

Intercept:	0
Slope:	0.4554

Error Coefficients

Standard Error:	933000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.094993	10.0	1759713.0	0.474964	Y
2	IC 410-213100/16	0.5	0.224357	10.0	1750245.0	0.448714	Y
3	IC 410-213100/15	1.0	0.440448	10.0	1750307.0	0.440448	Y
4	IC 410-213100/14	2.0	0.894527	10.0	1754782.0	0.447264	Y
5	IC 410-213100/13	5.0	2.306332	10.0	1788606.0	0.461266	Y
6	ICIS 410-213100/12	10.0	4.535277	10.0	1782740.0	0.453528	Y
7	IC 410-213100/11	25.0	11.541903	10.0	1810931.0	0.461676	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

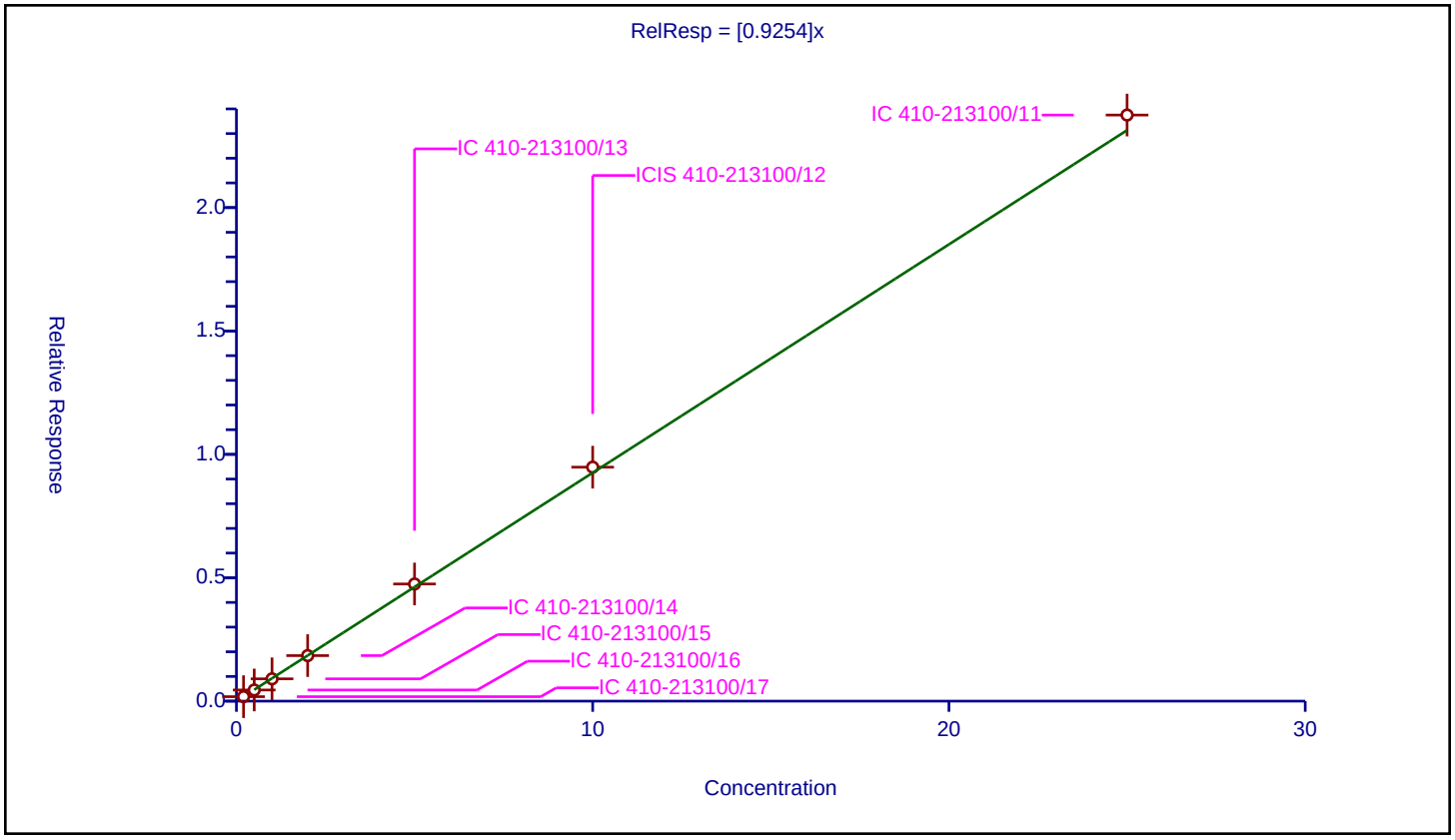
Curve Coefficients

Intercept:	0
Slope:	0.9254

Error Coefficients

Standard Error:	1920000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.180302	10.0	1759713.0	0.901511	Y
2	IC 410-213100/16	0.5	0.451165	10.0	1750245.0	0.902331	Y
3	IC 410-213100/15	1.0	0.903561	10.0	1750307.0	0.903561	Y
4	IC 410-213100/14	2.0	1.845591	10.0	1754782.0	0.922796	Y
5	IC 410-213100/13	5.0	4.747804	10.0	1788606.0	0.949561	Y
6	ICIS 410-213100/12	10.0	9.481523	10.0	1782740.0	0.948152	Y
7	IC 410-213100/11	25.0	23.750921	10.0	1810931.0	0.950037	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

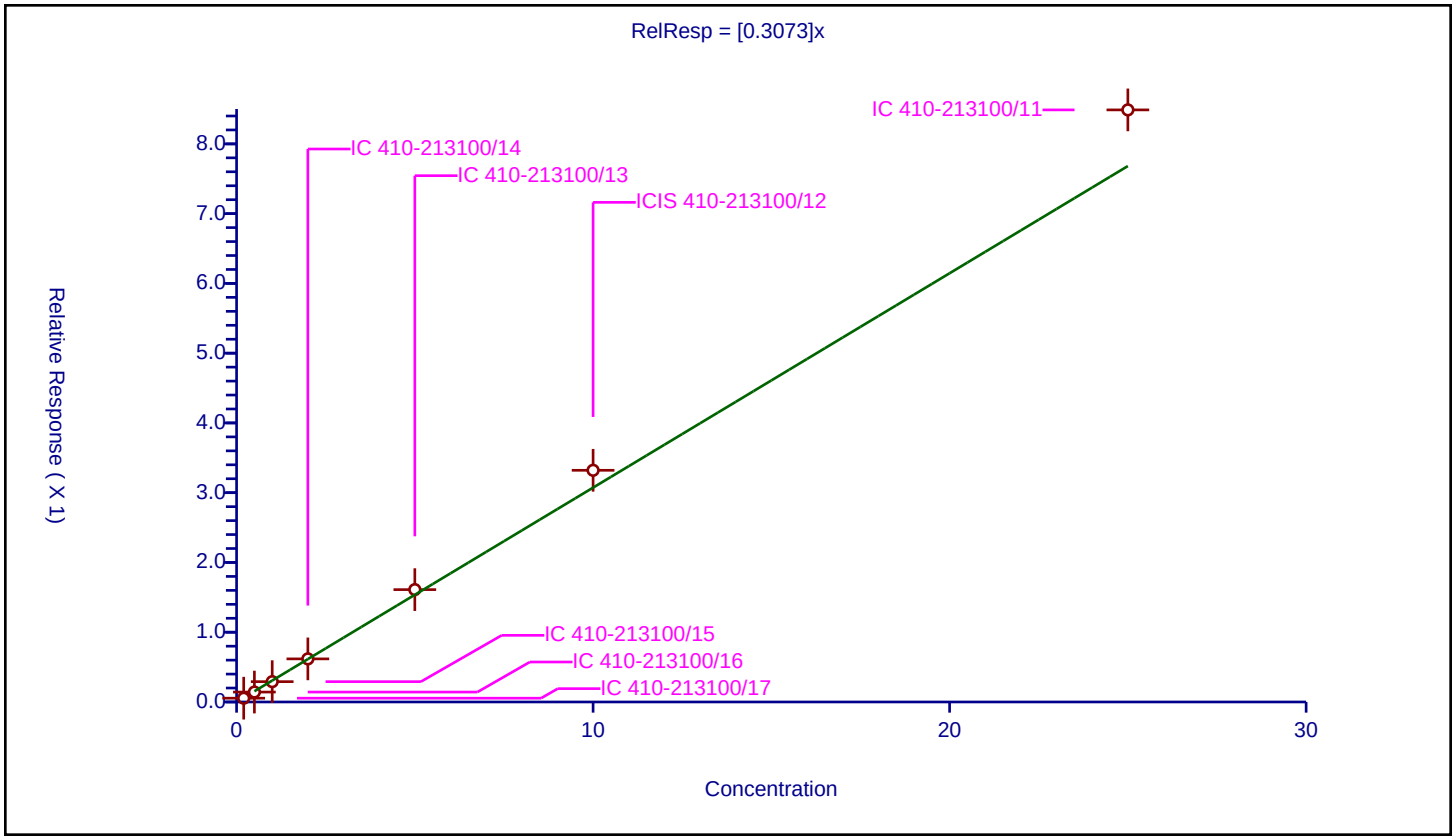
Curve Coefficients

Intercept:	0
Slope:	0.3073

Error Coefficients

Standard Error:	684000
Relative Standard Error:	8.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.054361	10.0	1759713.0	0.271806	Y
2	IC 410-213100/16	0.5	0.142409	10.0	1750245.0	0.284817	Y
3	IC 410-213100/15	1.0	0.291652	10.0	1750307.0	0.291652	Y
4	IC 410-213100/14	2.0	0.617957	10.0	1754782.0	0.308979	Y
5	IC 410-213100/13	5.0	1.610679	10.0	1788606.0	0.322136	Y
6	ICIS 410-213100/12	10.0	3.321382	10.0	1782740.0	0.332138	Y
7	IC 410-213100/11	25.0	8.487546	10.0	1810931.0	0.339502	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

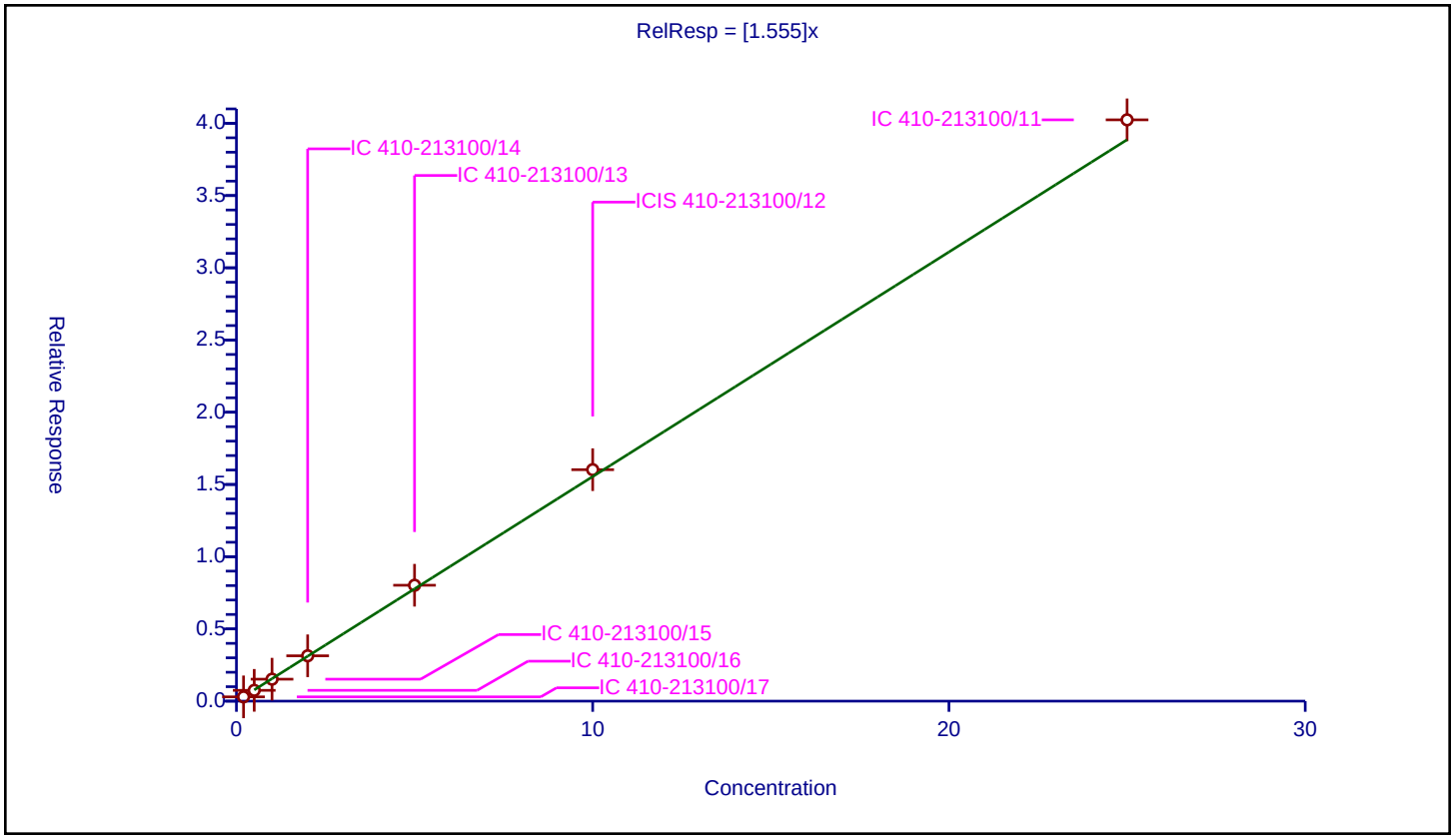
Curve Coefficients

Intercept:	0
Slope:	1.555

Error Coefficients

Standard Error:	3260000
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 410-213100/17	0.2	0.296082	10.0	1759713.0	1.480412	Y
2	IC 410-213100/16	0.5	0.748101	10.0	1750245.0	1.496202	Y
3	IC 410-213100/15	1.0	1.519945	10.0	1750307.0	1.519945	Y
4	IC 410-213100/14	2.0	3.139074	10.0	1754782.0	1.569537	Y
5	IC 410-213100/13	5.0	8.022488	10.0	1788606.0	1.604498	Y
6	ICIS 410-213100/12	10.0	16.023565	10.0	1782740.0	1.602356	Y
7	IC 410-213100/11	25.0	40.241566	10.0	1810931.0	1.609663	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

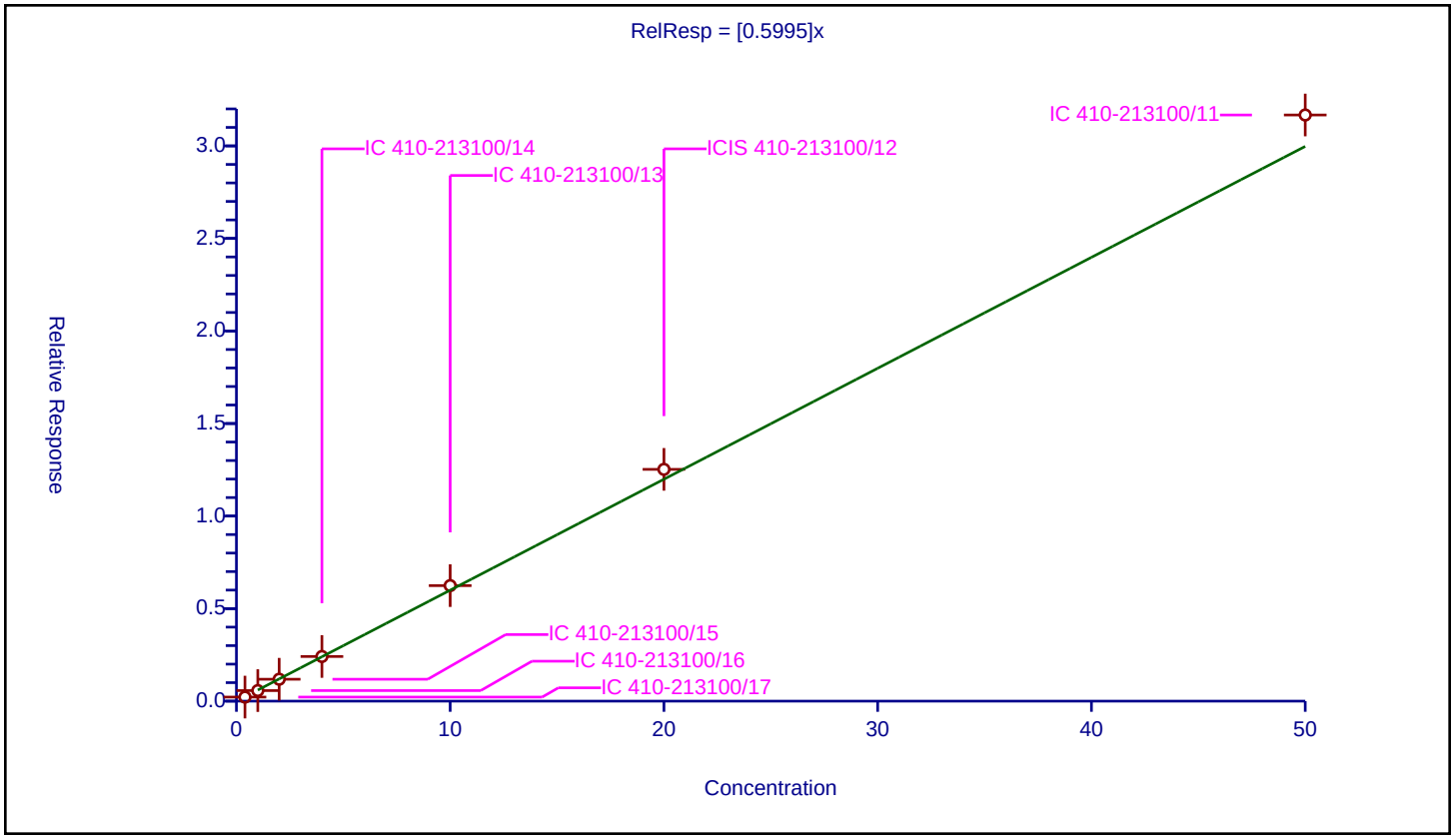
Curve Coefficients

Intercept:	0
Slope:	0.5995

Error Coefficients

Standard Error:	2560000
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 410-213100/17	0.4	0.218843	10.0	1759713.0	0.547106	Y
2	IC 410-213100/16	1.0	0.570589	10.0	1750245.0	0.570589	Y
3	IC 410-213100/15	2.0	1.183541	10.0	1750307.0	0.59177	Y
4	IC 410-213100/14	4.0	2.41255	10.0	1754782.0	0.603138	Y
5	IC 410-213100/13	10.0	6.242001	10.0	1788606.0	0.6242	Y
6	ICIS 410-213100/12	20.0	12.52398	10.0	1782740.0	0.626199	Y
7	IC 410-213100/11	50.0	31.671102	10.0	1810931.0	0.633422	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

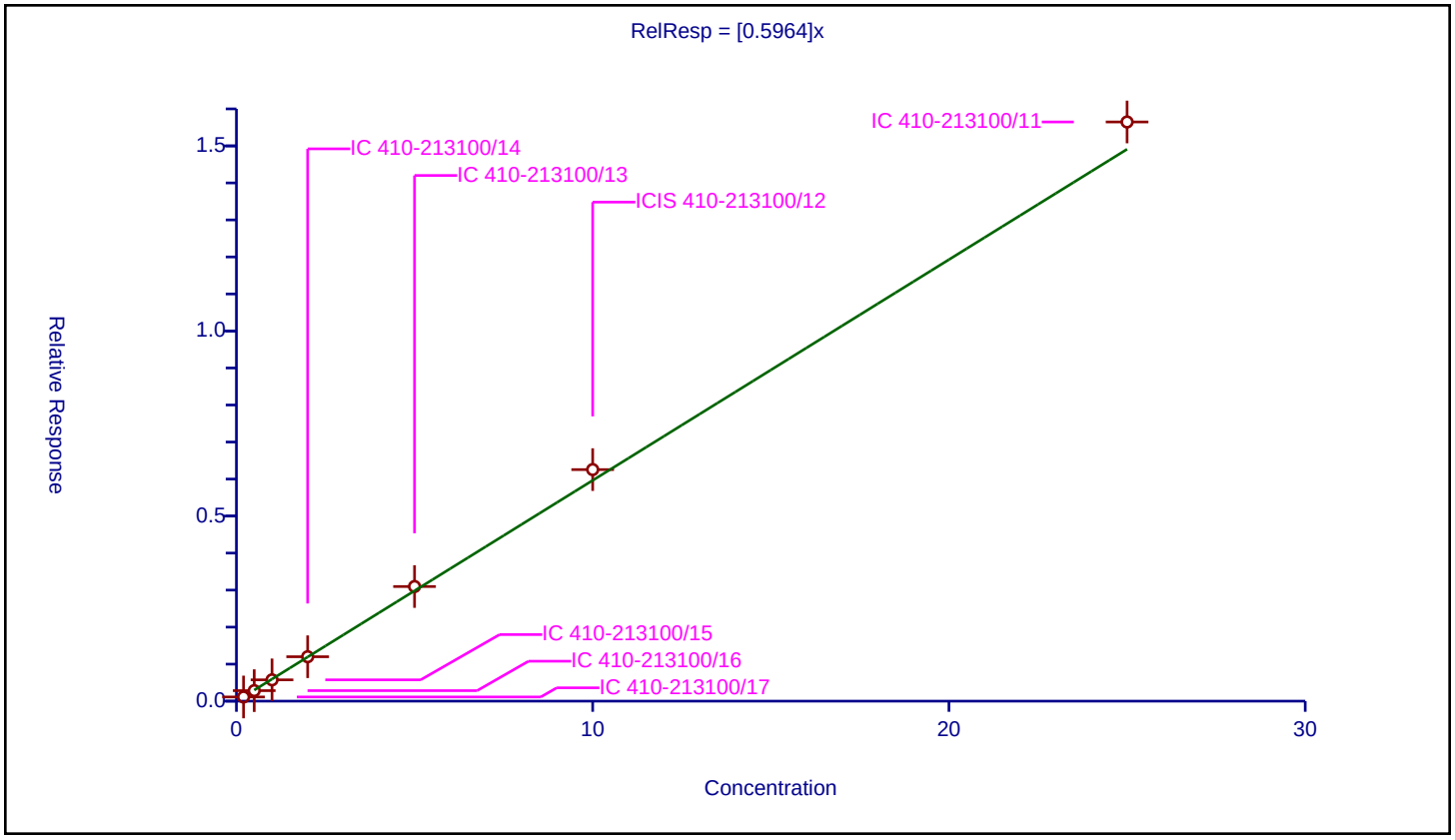
Curve Coefficients

Intercept:	0
Slope:	0.5964

Error Coefficients

Standard Error:	1270000
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 410-213100/17	0.2	0.112359	10.0	1759713.0	0.561796	Y
2	IC 410-213100/16	0.5	0.283577	10.0	1750245.0	0.567155	Y
3	IC 410-213100/15	1.0	0.575442	10.0	1750307.0	0.575442	Y
4	IC 410-213100/14	2.0	1.199551	10.0	1754782.0	0.599775	Y
5	IC 410-213100/13	5.0	3.096629	10.0	1788606.0	0.619326	Y
6	ICIS 410-213100/12	10.0	6.255466	10.0	1782740.0	0.625547	Y
7	IC 410-213100/11	25.0	15.64693	10.0	1810931.0	0.625877	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

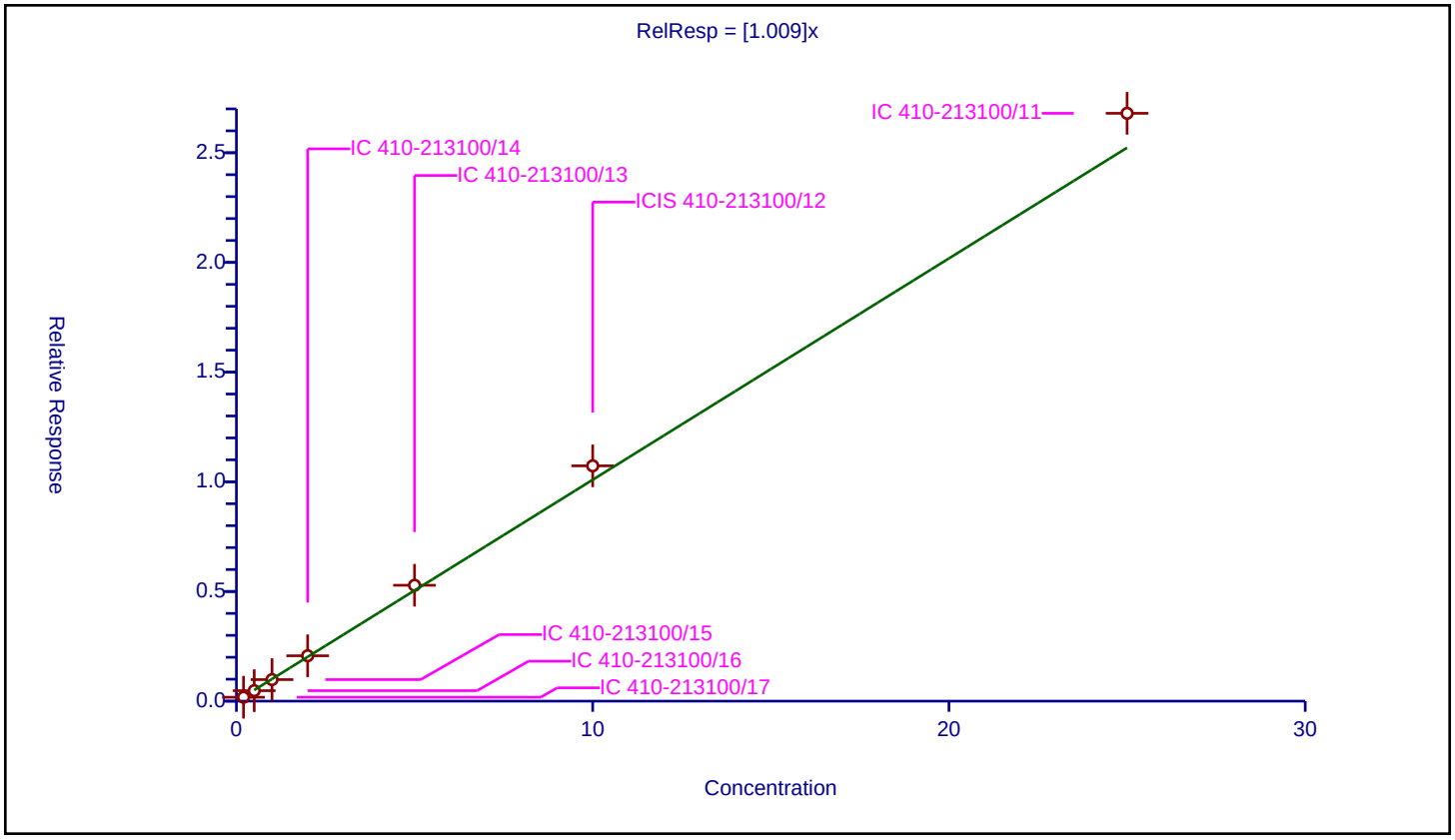
Curve Coefficients

Intercept:	0
Slope:	1.009

Error Coefficients

Standard Error:	2170000
Relative Standard Error:	6.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.178319	10.0	1759713.0	0.891594	Y
2	IC 410-213100/16	0.5	0.477562	10.0	1750245.0	0.955123	Y
3	IC 410-213100/15	1.0	0.982256	10.0	1750307.0	0.982256	Y
4	IC 410-213100/14	2.0	2.068616	10.0	1754782.0	1.034308	Y
5	IC 410-213100/13	5.0	5.282164	10.0	1788606.0	1.056433	Y
6	ICIS 410-213100/12	10.0	10.726646	10.0	1782740.0	1.072665	Y
7	IC 410-213100/11	25.0	26.79847	10.0	1810931.0	1.071939	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

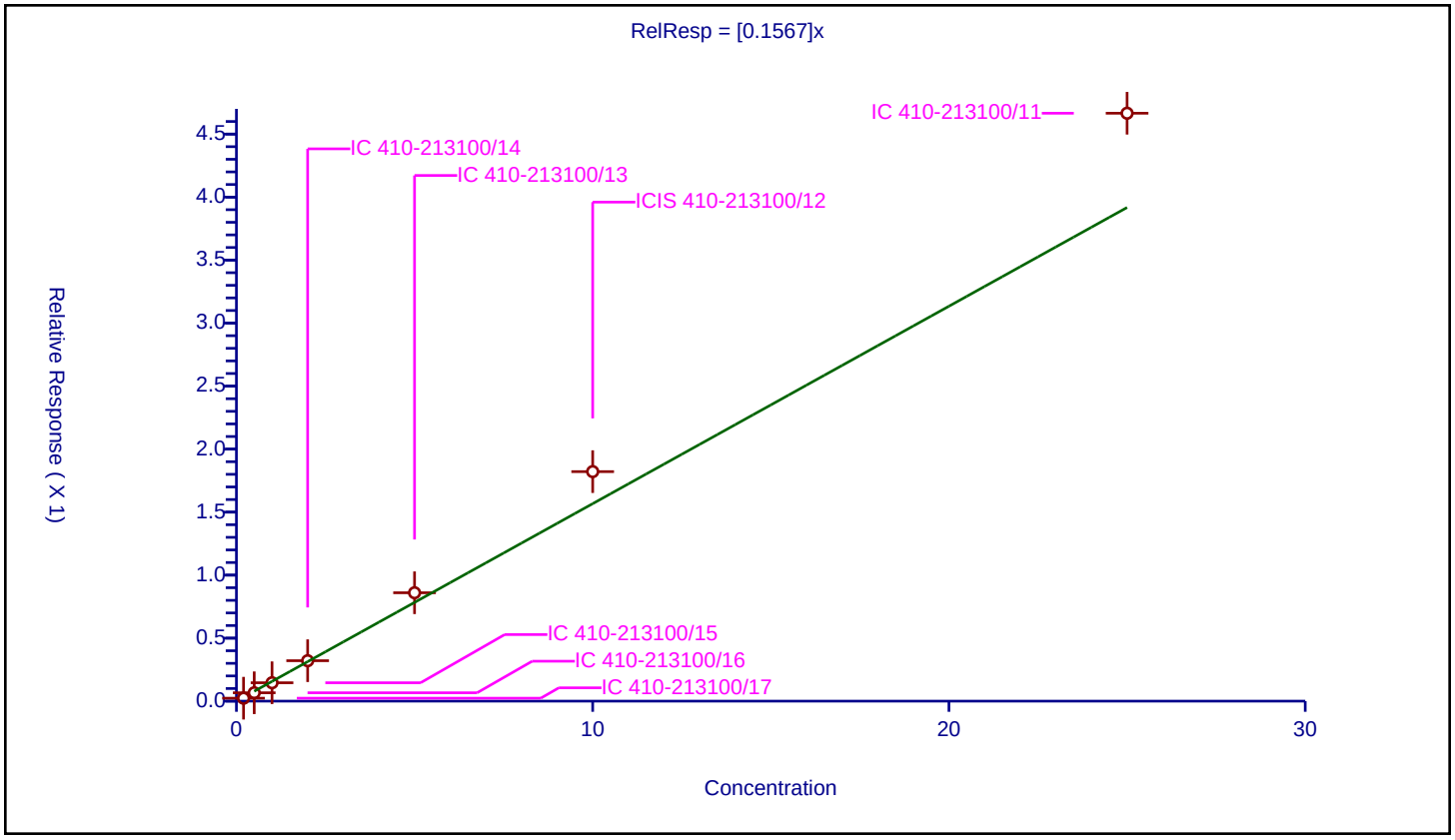
Curve Coefficients

Intercept:	0
Slope:	0.1567

Error Coefficients

Standard Error:	376000
Relative Standard Error:	16.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.02339	10.0	1759713.0	0.116951	Y
2	IC 410-213100/16	0.5	0.066465	10.0	1750245.0	0.13293	Y
3	IC 410-213100/15	1.0	0.145843	10.0	1750307.0	0.145843	Y
4	IC 410-213100/14	2.0	0.320849	10.0	1754782.0	0.160424	Y
5	IC 410-213100/13	5.0	0.860094	10.0	1788606.0	0.172019	Y
6	ICIS 410-213100/12	10.0	1.821443	10.0	1782740.0	0.182144	Y
7	IC 410-213100/11	25.0	4.665446	10.0	1810931.0	0.186618	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

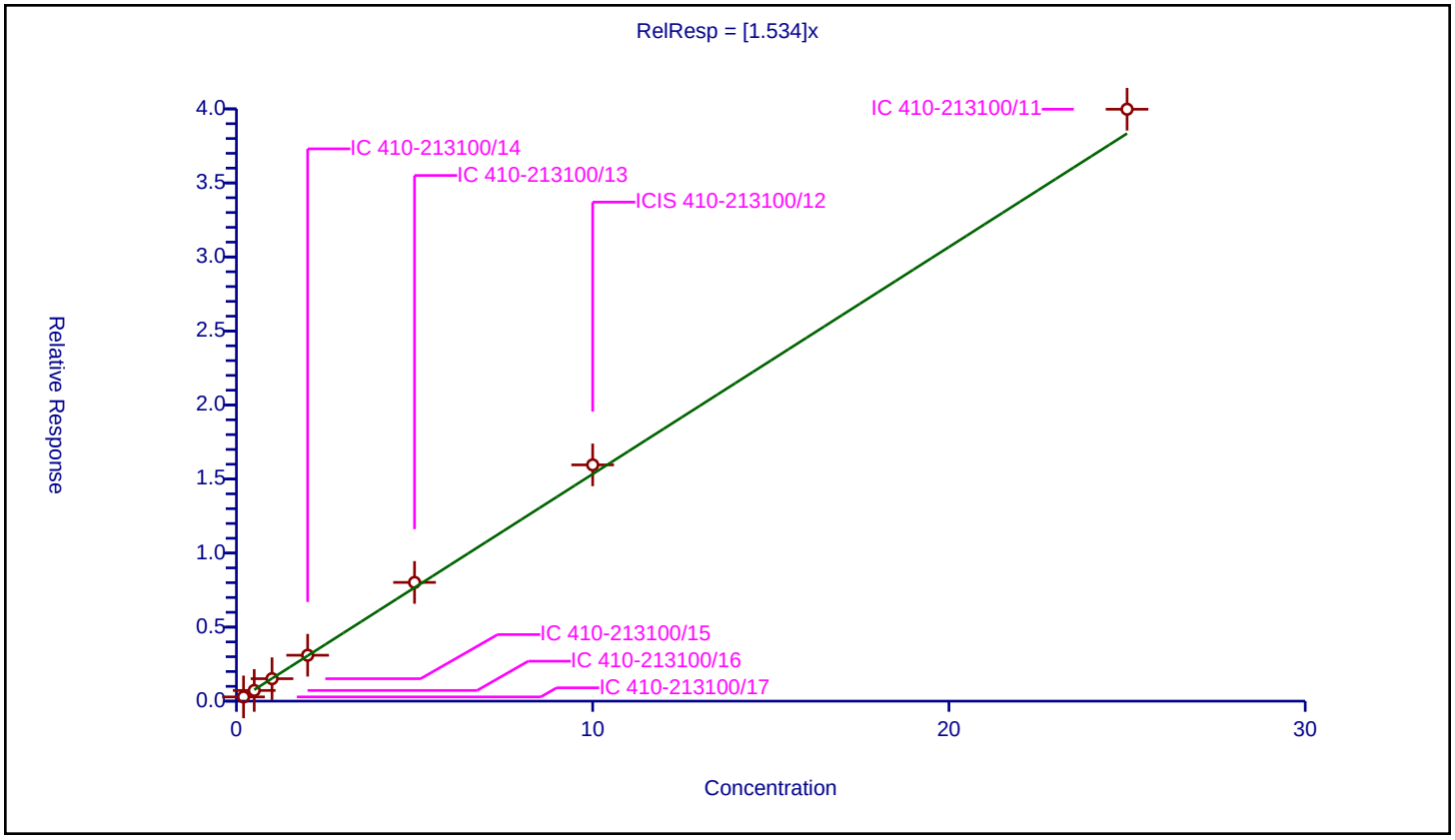
Curve Coefficients

Intercept:	0
Slope:	1.534

Error Coefficients

Standard Error:	3240000
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 410-213100/17	0.2	0.28516	10.0	1759713.0	1.425801	Y
2	IC 410-213100/16	0.5	0.722139	10.0	1750245.0	1.444278	Y
3	IC 410-213100/15	1.0	1.515974	10.0	1750307.0	1.515974	Y
4	IC 410-213100/14	2.0	3.101075	10.0	1754782.0	1.550537	Y
5	IC 410-213100/13	5.0	8.018418	10.0	1788606.0	1.603684	Y
6	ICIS 410-213100/12	10.0	15.956096	10.0	1782740.0	1.59561	Y
7	IC 410-213100/11	25.0	39.977299	10.0	1810931.0	1.599092	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

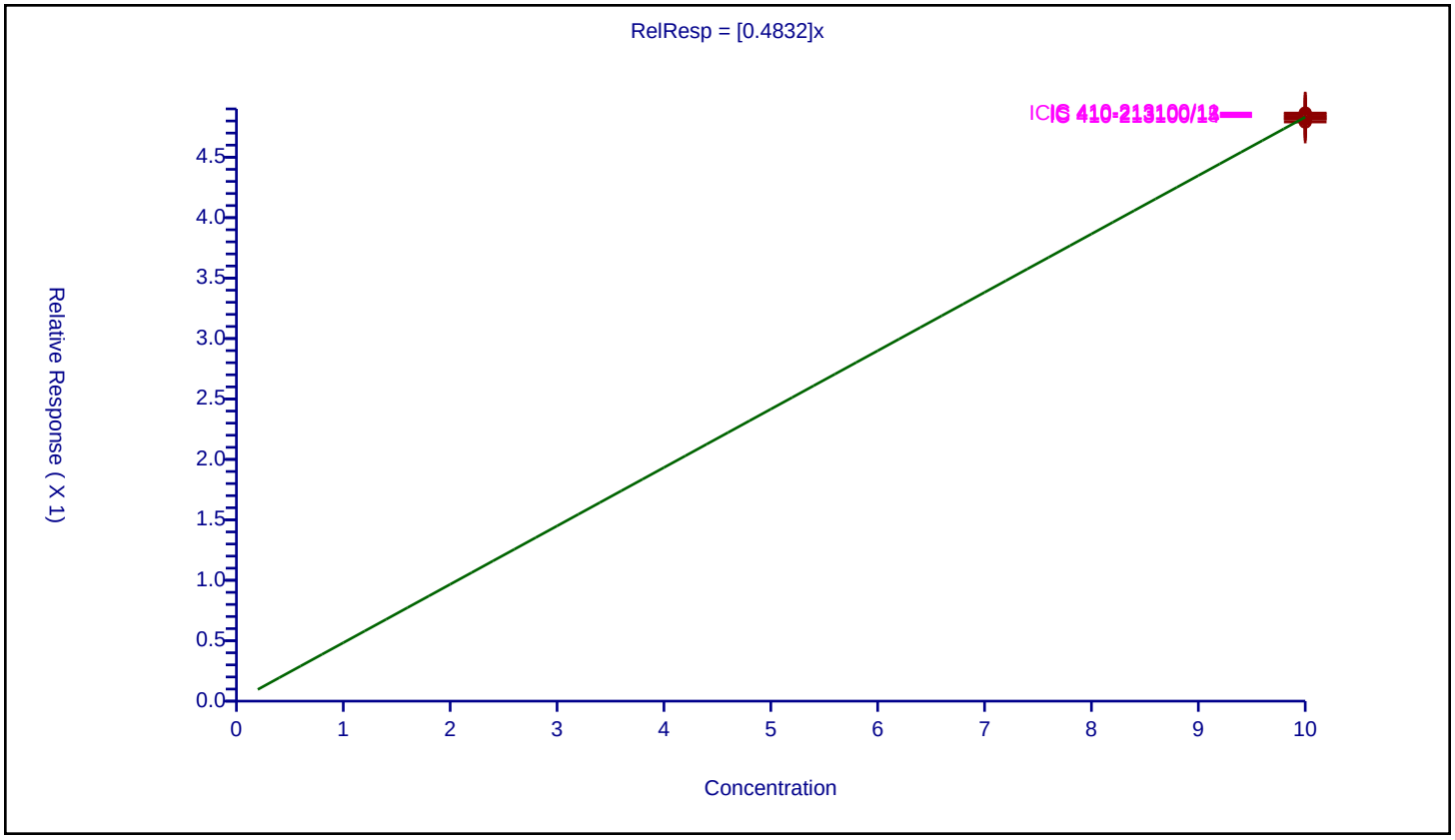
Curve Coefficients

Intercept:	0
Slope:	0.4832

Error Coefficients

Standard Error:	924000
Relative Standard Error:	0.5
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/11	10.0	4.865652	10.0	1810931.0	0.486565	Y
2	ICIS 410-213100/12	10.0	4.857242	10.0	1782740.0	0.485724	Y
3	IC 410-213100/13	10.0	4.815672	10.0	1788606.0	0.481567	Y
4	IC 410-213100/14	10.0	4.835957	10.0	1754782.0	0.483596	Y
5	IC 410-213100/15	10.0	4.83902	10.0	1750307.0	0.483902	Y
6	IC 410-213100/16	10.0	4.815909	10.0	1750245.0	0.481591	Y
7	IC 410-213100/17	10.0	4.791628	10.0	1759713.0	0.479163	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

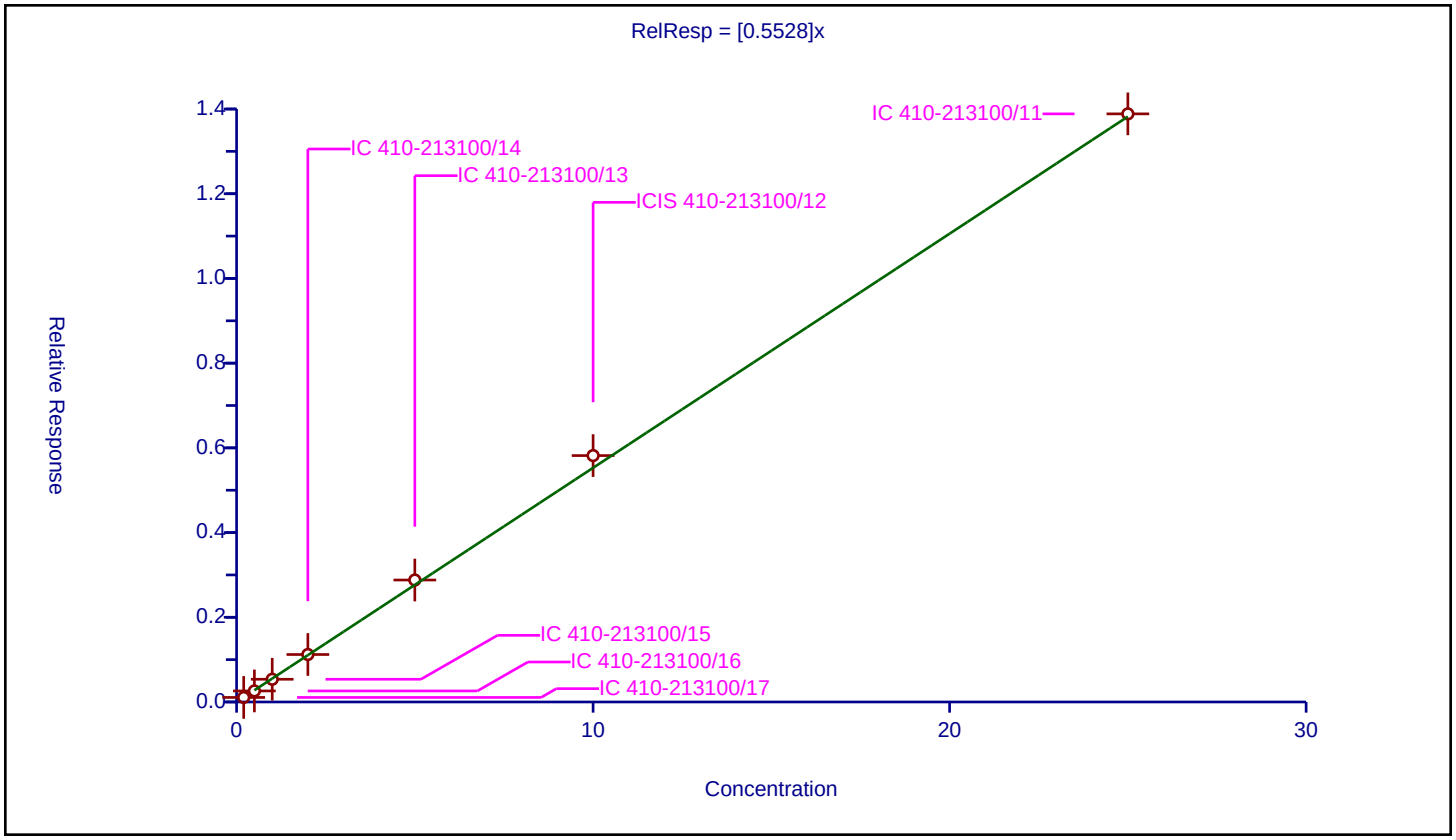
Curve Coefficients

Intercept:	0
Slope:	0.5528

Error Coefficients

Standard Error:	654000
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 410-213100/17	0.2	0.107525	10.0	975773.0	0.537625	Y
2	IC 410-213100/16	0.5	0.260984	10.0	980021.0	0.521968	Y
3	IC 410-213100/15	1.0	0.536805	10.0	984324.0	0.536805	Y
4	IC 410-213100/14	2.0	1.121024	10.0	988230.0	0.560512	Y
5	IC 410-213100/13	5.0	2.879185	10.0	1011300.0	0.575837	Y
6	ICIS 410-213100/12	10.0	5.817488	10.0	1012822.0	0.581749	Y
7	IC 410-213100/11	25.0	13.885303	10.0	1048397.0	0.555412	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

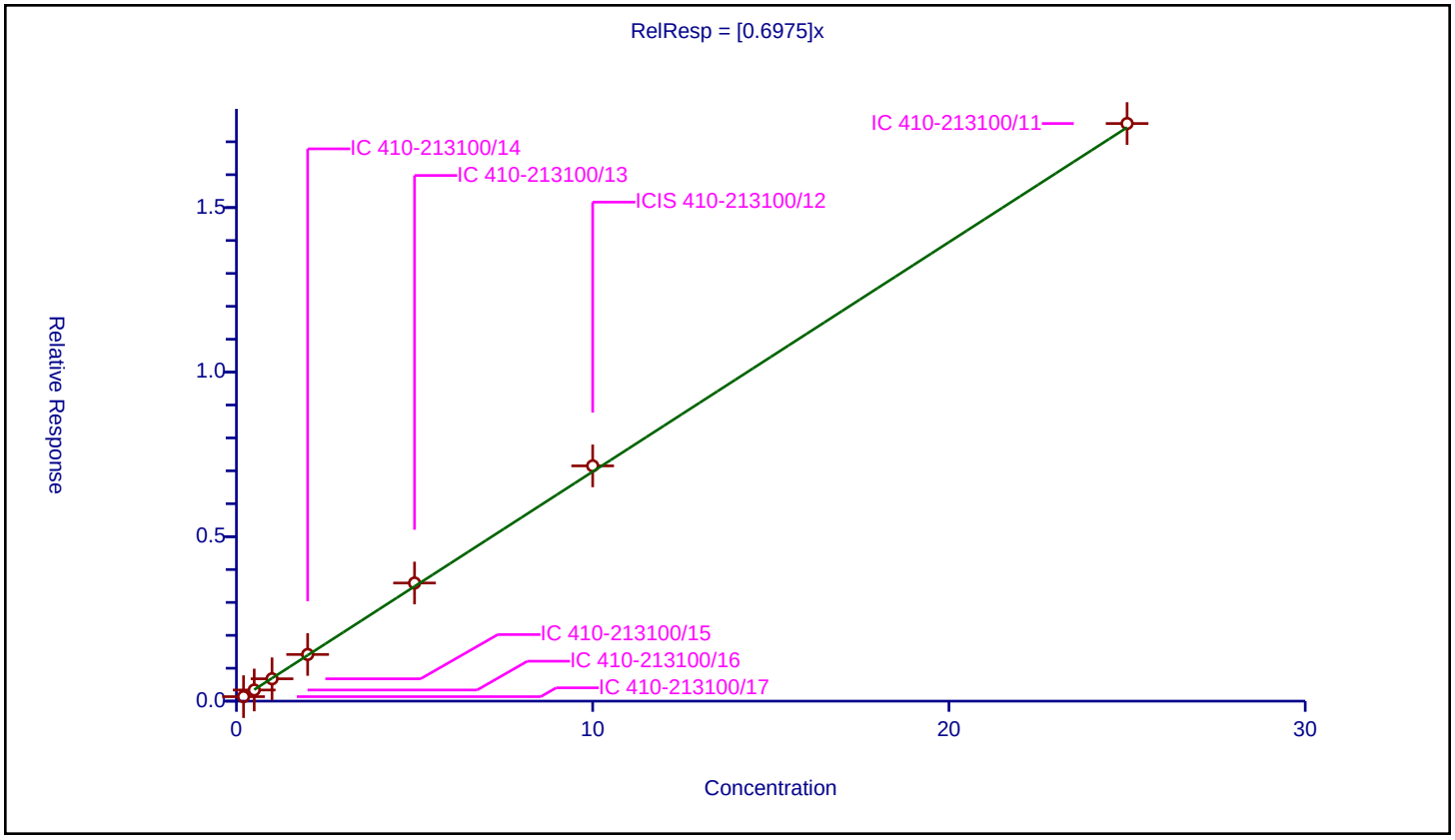
Curve Coefficients

Intercept:	0
Slope:	0.6975

Error Coefficients

Standard Error:	824000
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 410-213100/17	0.2	0.136159	10.0	975773.0	0.680794	Y
2	IC 410-213100/16	0.5	0.338768	10.0	980021.0	0.677537	Y
3	IC 410-213100/15	1.0	0.679177	10.0	984324.0	0.679177	Y
4	IC 410-213100/14	2.0	1.418739	10.0	988230.0	0.709369	Y
5	IC 410-213100/13	5.0	3.590389	10.0	1011300.0	0.718078	Y
6	ICIS 410-213100/12	10.0	7.150506	10.0	1012822.0	0.715051	Y
7	IC 410-213100/11	25.0	17.55584	10.0	1048397.0	0.702234	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

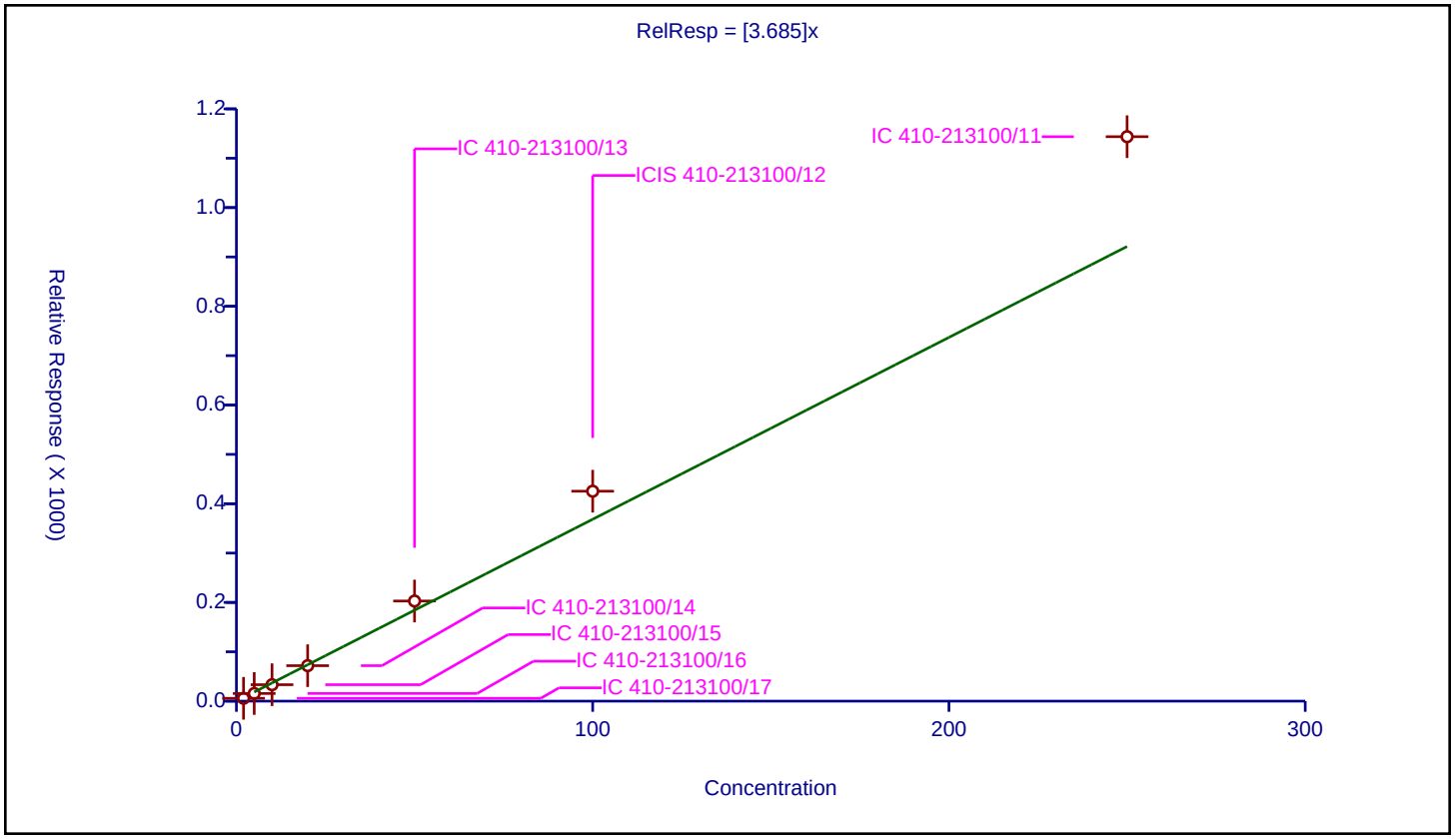
Curve Coefficients

Intercept:	0
Slope:	3.685

Error Coefficients

Standard Error:	1660000
Relative Standard Error:	17.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.968

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	2.0	5.769617	50.0	169370.0	2.884808	Y
2	IC 410-213100/16	5.0	15.500568	50.0	173413.0	3.100114	Y
3	IC 410-213100/15	10.0	33.312787	50.0	174406.0	3.331279	Y
4	IC 410-213100/14	20.0	71.851349	50.0	178108.0	3.592567	Y
5	IC 410-213100/13	50.0	202.865216	50.0	171994.0	4.057304	Y
6	ICIS 410-213100/12	100.0	425.360834	50.0	169884.0	4.253608	Y
7	IC 410-213100/11	250.0	1143.685733	50.0	162798.0	4.574743	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

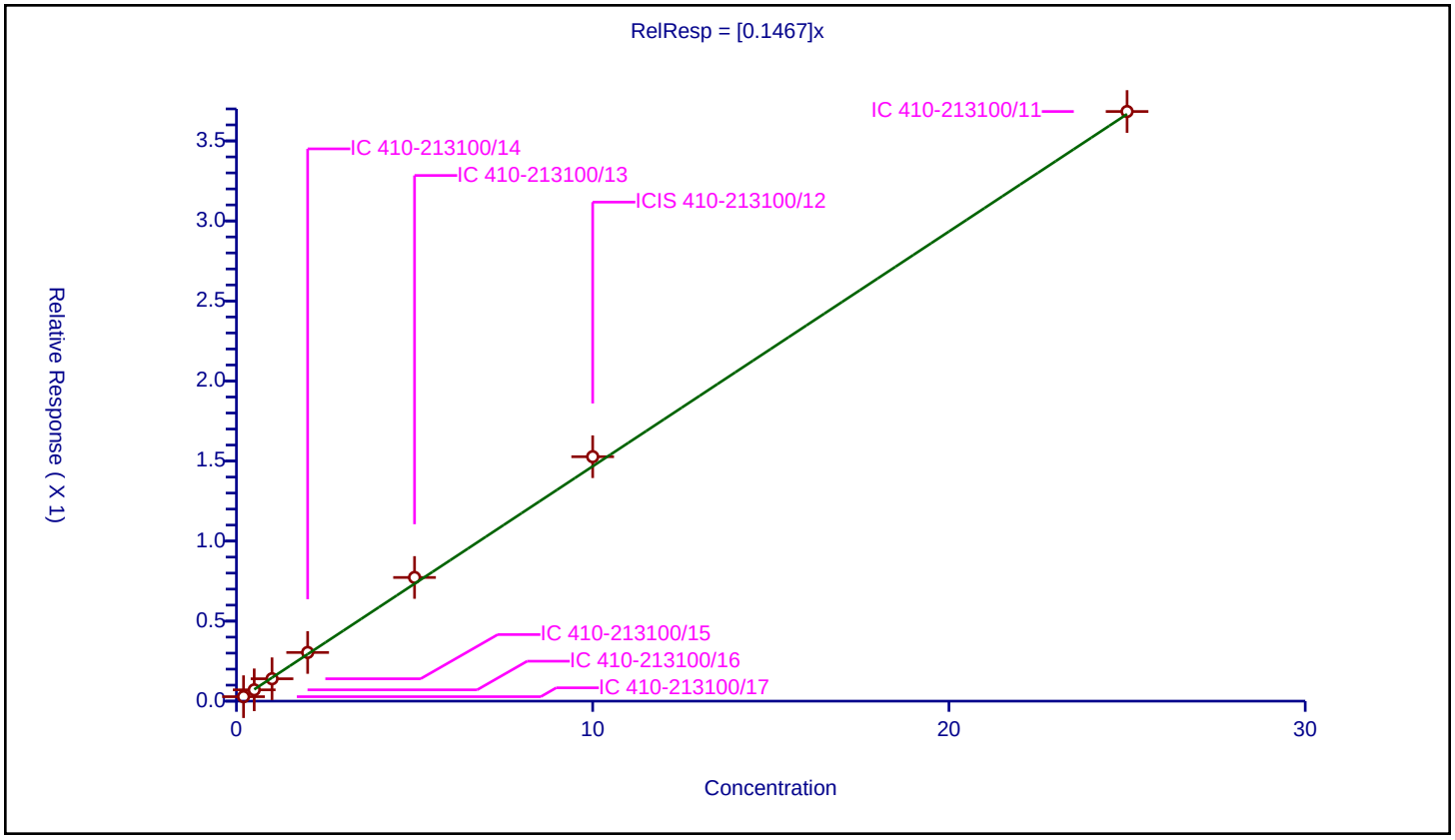
Curve Coefficients

Intercept:	0
Slope:	0.1467

Error Coefficients

Standard Error:	173000
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 410-213100/17	0.2	0.027845	10.0	975773.0	0.139223	Y
2	IC 410-213100/16	0.5	0.07059	10.0	980021.0	0.141181	Y
3	IC 410-213100/15	1.0	0.139842	10.0	984324.0	0.139842	Y
4	IC 410-213100/14	2.0	0.30415	10.0	988230.0	0.152075	Y
5	IC 410-213100/13	5.0	0.772619	10.0	1011300.0	0.154524	Y
6	ICIS 410-213100/12	10.0	1.52704	10.0	1012822.0	0.152704	Y
7	IC 410-213100/11	25.0	3.683652	10.0	1048397.0	0.147346	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

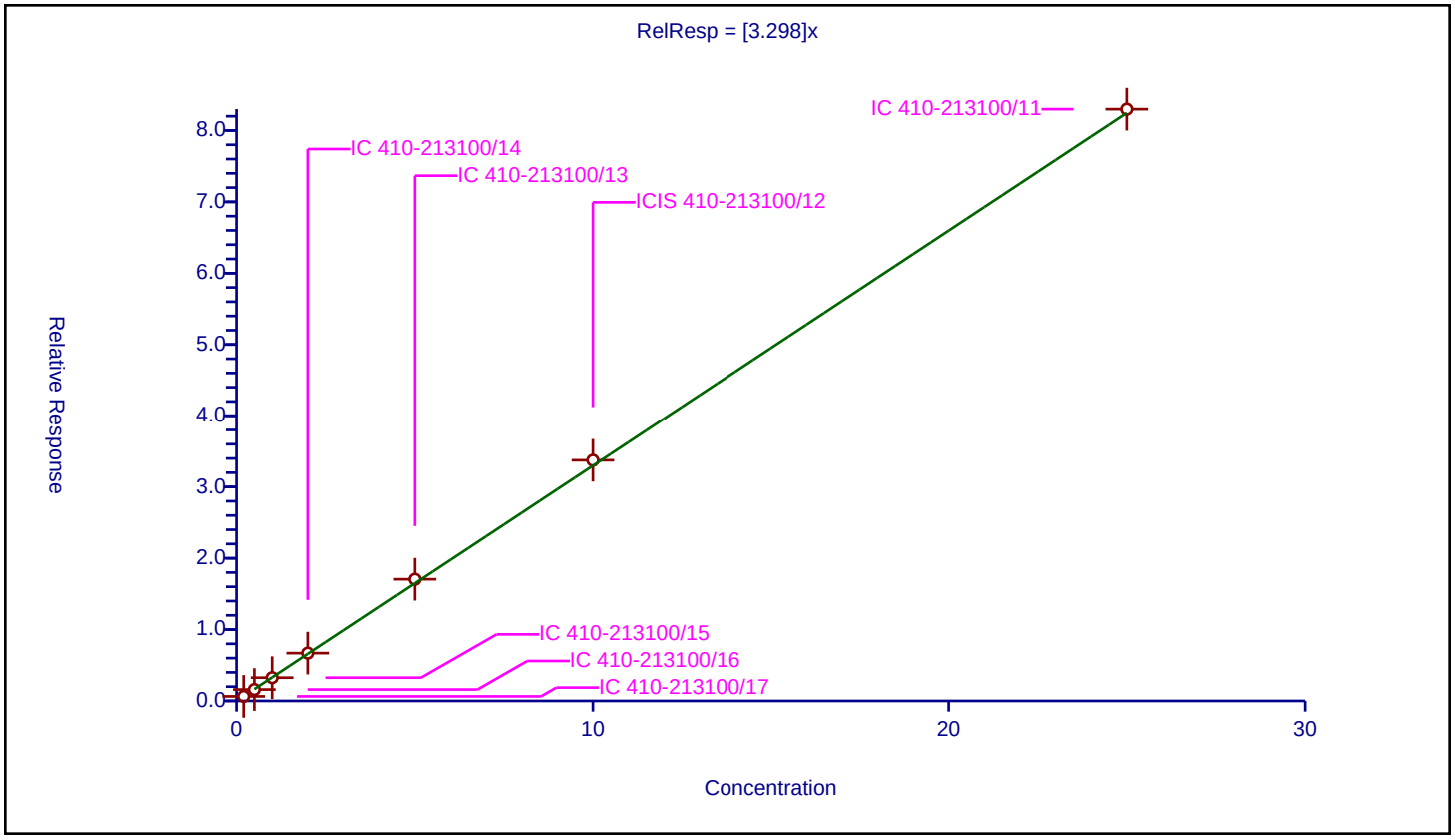
Curve Coefficients

Intercept:	0
Slope:	3.298

Error Coefficients

Standard Error:	3890000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.63691	10.0	975773.0	3.184552	Y
2	IC 410-213100/16	0.5	1.595486	10.0	980021.0	3.190972	Y
3	IC 410-213100/15	1.0	3.25785	10.0	984324.0	3.25785	Y
4	IC 410-213100/14	2.0	6.699614	10.0	988230.0	3.349807	Y
5	IC 410-213100/13	5.0	17.055443	10.0	1011300.0	3.411089	Y
6	ICIS 410-213100/12	10.0	33.74981	10.0	1012822.0	3.374981	Y
7	IC 410-213100/11	25.0	82.986703	10.0	1048397.0	3.319468	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

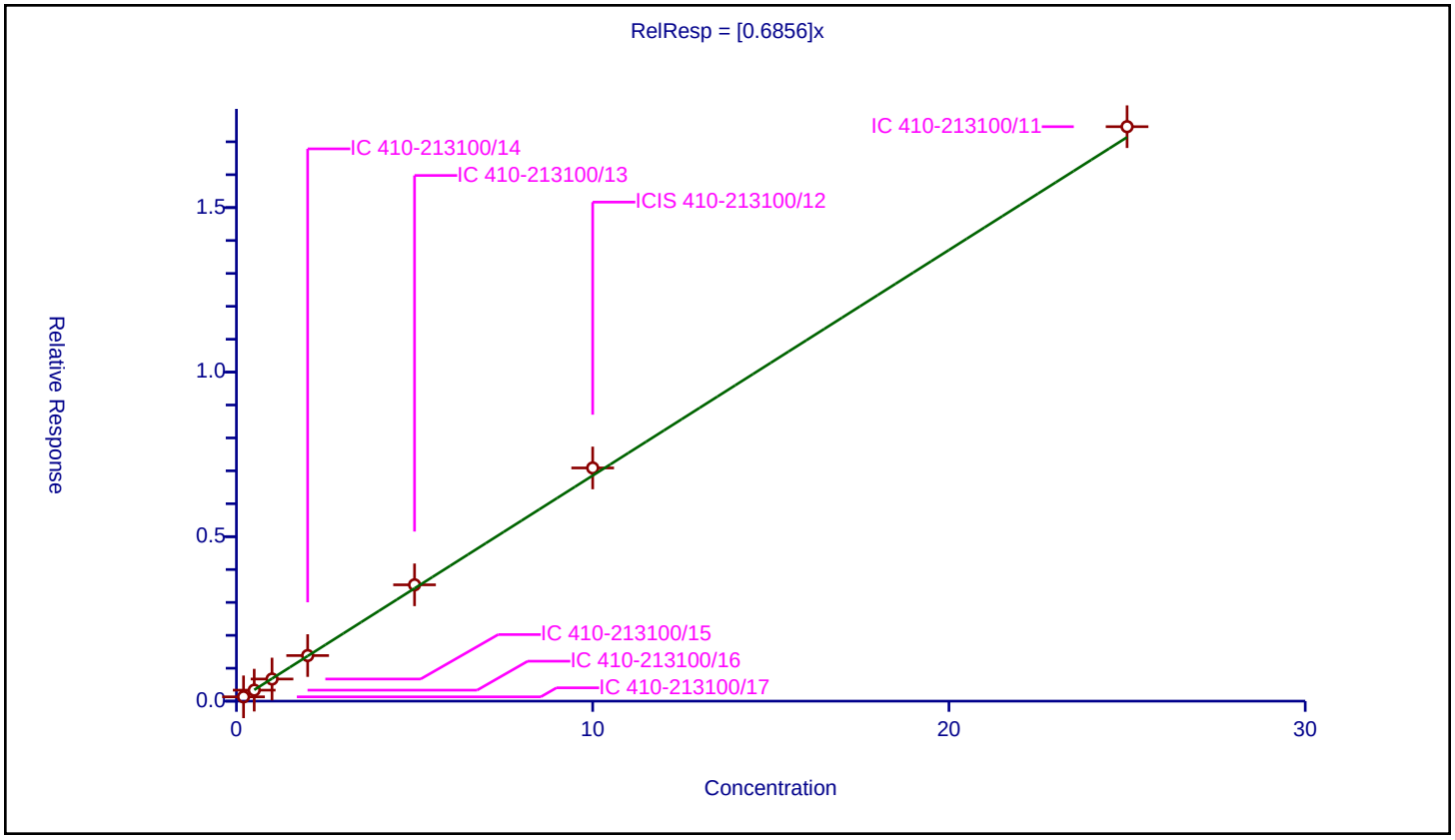
Curve Coefficients

Intercept:	0
Slope:	0.6856

Error Coefficients

Standard Error:	818000
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 410-213100/17	0.2	0.130512	10.0	975773.0	0.65256	Y
2	IC 410-213100/16	0.5	0.333574	10.0	980021.0	0.667149	Y
3	IC 410-213100/15	1.0	0.672502	10.0	984324.0	0.672502	Y
4	IC 410-213100/14	2.0	1.385143	10.0	988230.0	0.692572	Y
5	IC 410-213100/13	5.0	3.535558	10.0	1011300.0	0.707112	Y
6	ICIS 410-213100/12	10.0	7.087632	10.0	1012822.0	0.708763	Y
7	IC 410-213100/11	25.0	17.45956	10.0	1048397.0	0.698382	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

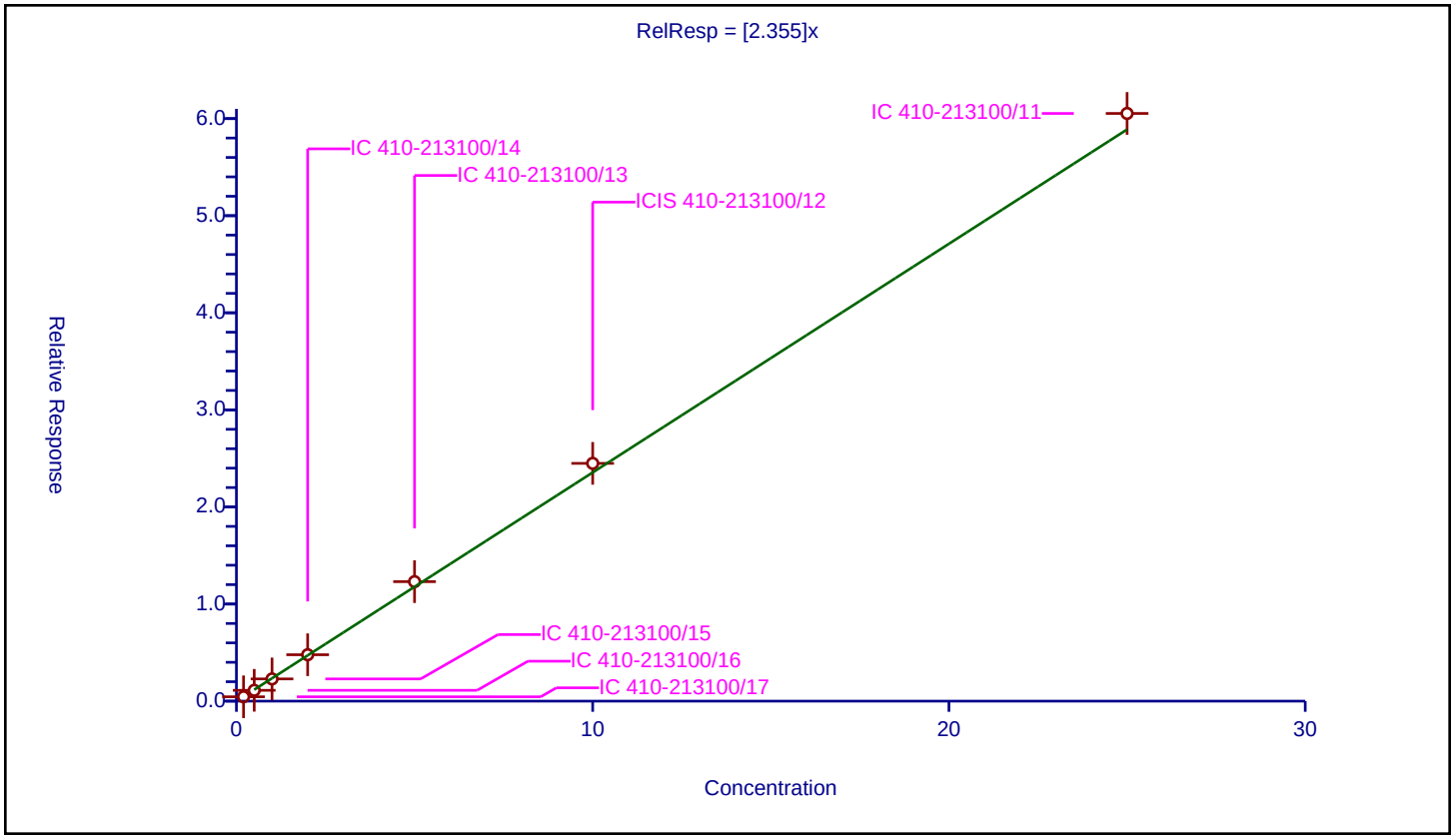
Curve Coefficients

Intercept:	0
Slope:	2.355

Error Coefficients

Standard Error:	2840000
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 410-213100/17	0.2	0.449357	10.0	975773.0	2.246783	Y
2	IC 410-213100/16	0.5	1.115099	10.0	980021.0	2.230197	Y
3	IC 410-213100/15	1.0	2.287895	10.0	984324.0	2.287895	Y
4	IC 410-213100/14	2.0	4.779252	10.0	988230.0	2.389626	Y
5	IC 410-213100/13	5.0	12.30887	10.0	1011300.0	2.461774	Y
6	ICIS 410-213100/12	10.0	24.489061	10.0	1012822.0	2.448906	Y
7	IC 410-213100/11	25.0	60.53164	10.0	1048397.0	2.421266	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

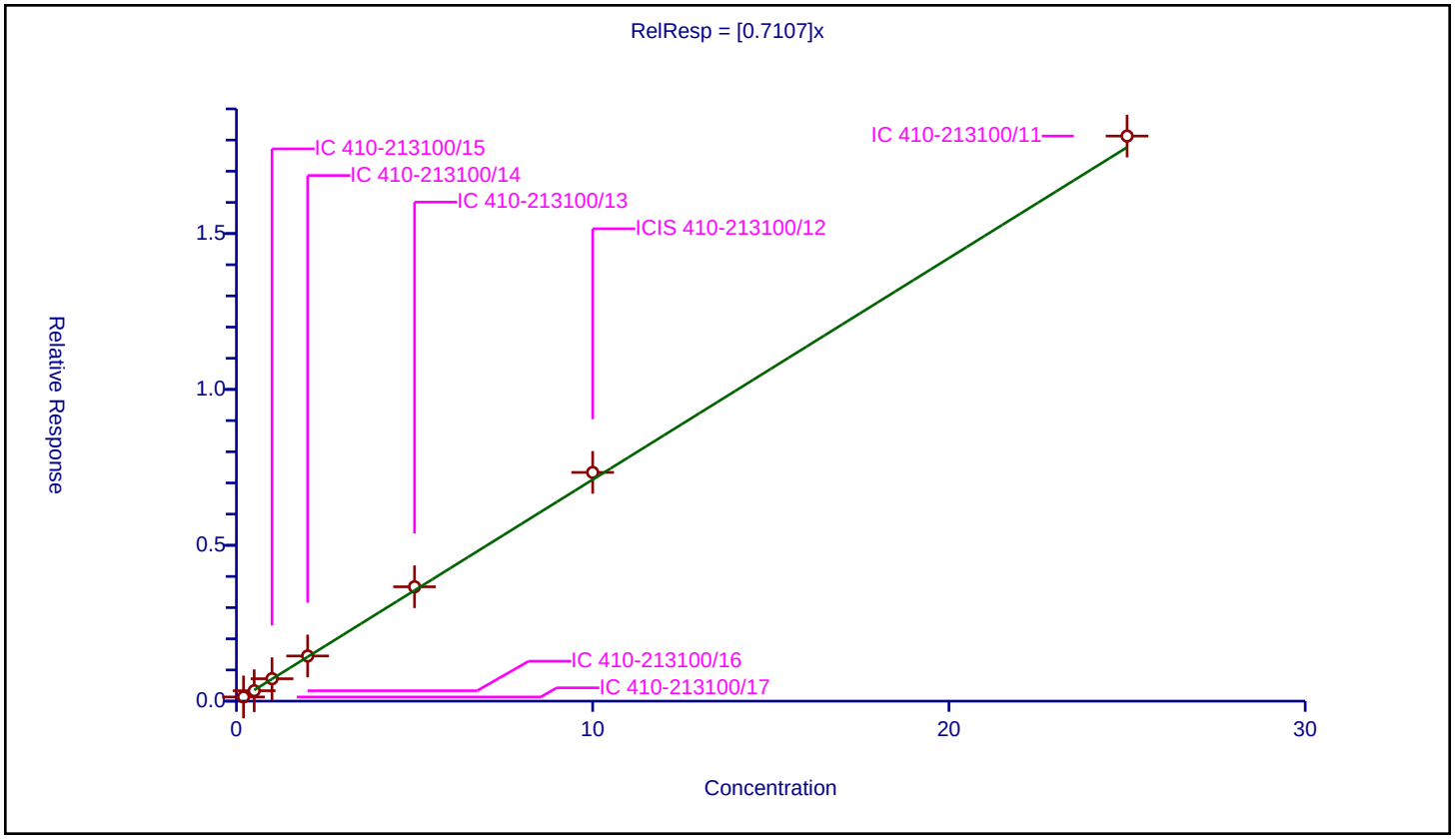
Curve Coefficients

Intercept:	0
Slope:	0.7107

Error Coefficients

Standard Error:	849000
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 410-213100/17	0.2	0.134068	10.0	975773.0	0.67034	Y
2	IC 410-213100/16	0.5	0.334411	10.0	980021.0	0.668822	Y
3	IC 410-213100/15	1.0	0.718635	10.0	984324.0	0.718635	Y
4	IC 410-213100/14	2.0	1.449005	10.0	988230.0	0.724502	Y
5	IC 410-213100/13	5.0	3.668773	10.0	1011300.0	0.733755	Y
6	ICIS 410-213100/12	10.0	7.337587	10.0	1012822.0	0.733759	Y
7	IC 410-213100/11	25.0	18.128676	10.0	1048397.0	0.725147	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

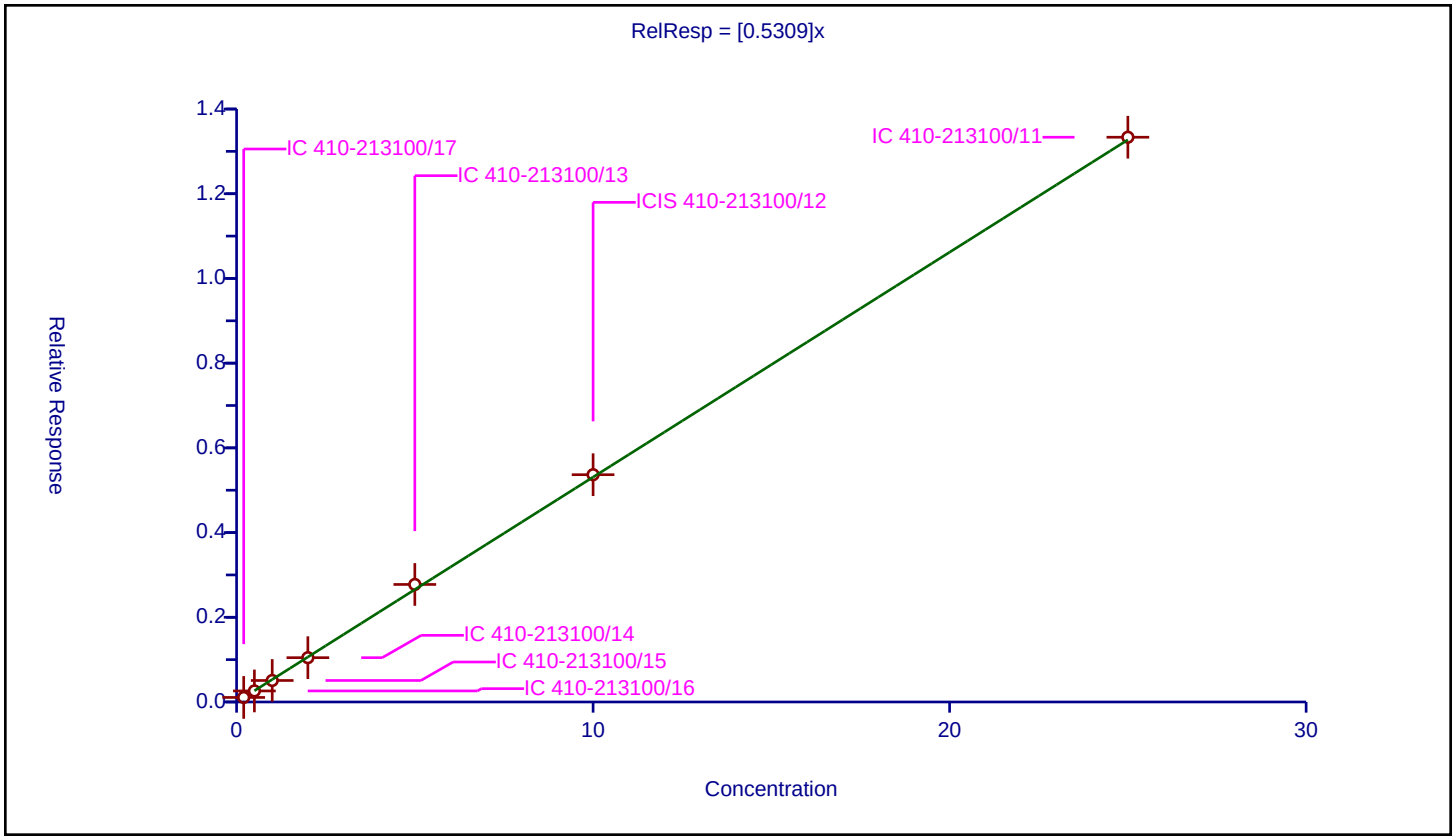
Curve Coefficients

Intercept:	0
Slope:	0.5309

Error Coefficients

Standard Error:	625000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.107648	10.0	975773.0	0.53824	Y
2	IC 410-213100/16	0.5	0.261178	10.0	980021.0	0.522356	Y
3	IC 410-213100/15	1.0	0.507993	10.0	984324.0	0.507993	Y
4	IC 410-213100/14	2.0	1.046072	10.0	988230.0	0.523036	Y
5	IC 410-213100/13	5.0	2.774716	10.0	1011300.0	0.554943	Y
6	ICIS 410-213100/12	10.0	5.366363	10.0	1012822.0	0.536636	Y
7	IC 410-213100/11	25.0	13.334042	10.0	1048397.0	0.533362	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

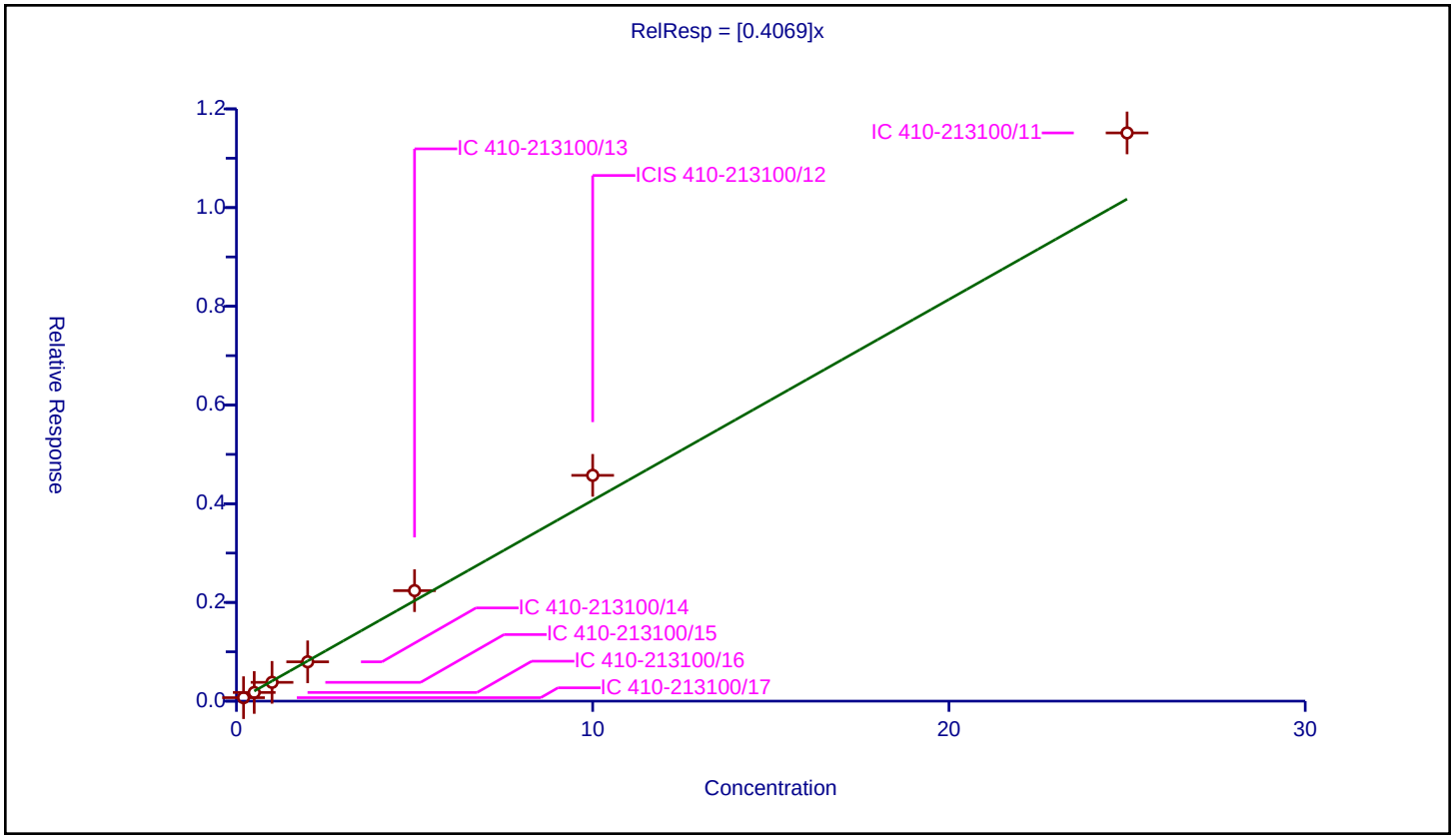
Curve Coefficients

Intercept:	0
Slope:	0.4069

Error Coefficients

Standard Error:	537000
Relative Standard Error:	11.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.070436	10.0	975773.0	0.352182	Y
2	IC 410-213100/16	0.5	0.175762	10.0	980021.0	0.351523	Y
3	IC 410-213100/15	1.0	0.380749	10.0	984324.0	0.380749	Y
4	IC 410-213100/14	2.0	0.796748	10.0	988230.0	0.398374	Y
5	IC 410-213100/13	5.0	2.238792	10.0	1011300.0	0.447758	Y
6	ICIS 410-213100/12	10.0	4.574743	10.0	1012822.0	0.457474	Y
7	IC 410-213100/11	25.0	11.513244	10.0	1048397.0	0.46053	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

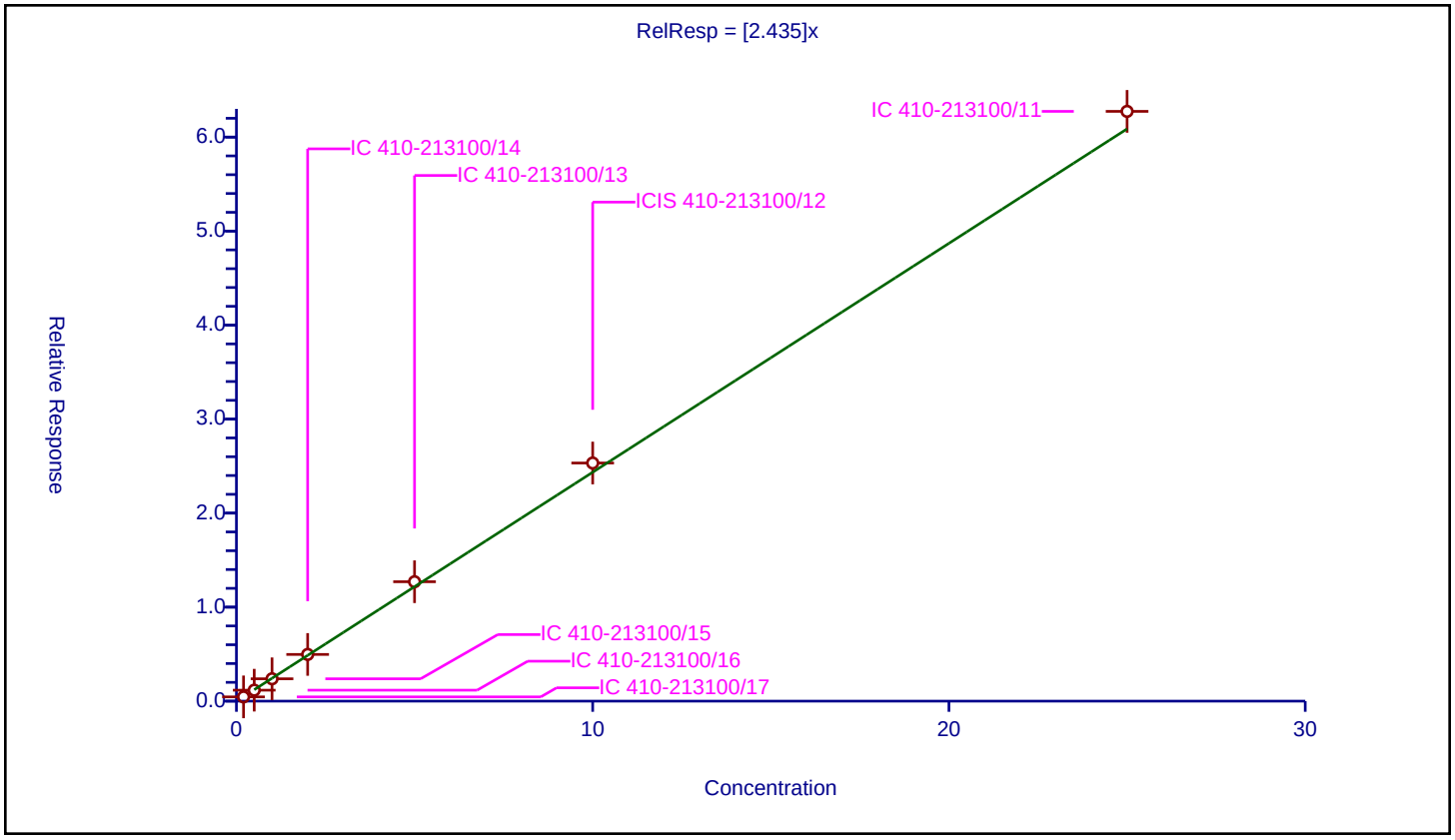
Curve Coefficients

Intercept:	0
Slope:	2.435

Error Coefficients

Standard Error:	2940000
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 410-213100/17	0.2	0.453282	10.0	975773.0	2.266408	Y
2	IC 410-213100/16	0.5	1.166822	10.0	980021.0	2.333644	Y
3	IC 410-213100/15	1.0	2.377083	10.0	984324.0	2.377083	Y
4	IC 410-213100/14	2.0	4.96857	10.0	988230.0	2.484285	Y
5	IC 410-213100/13	5.0	12.701968	10.0	1011300.0	2.540394	Y
6	ICIS 410-213100/12	10.0	25.331421	10.0	1012822.0	2.533142	Y
7	IC 410-213100/11	25.0	62.736339	10.0	1048397.0	2.509454	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

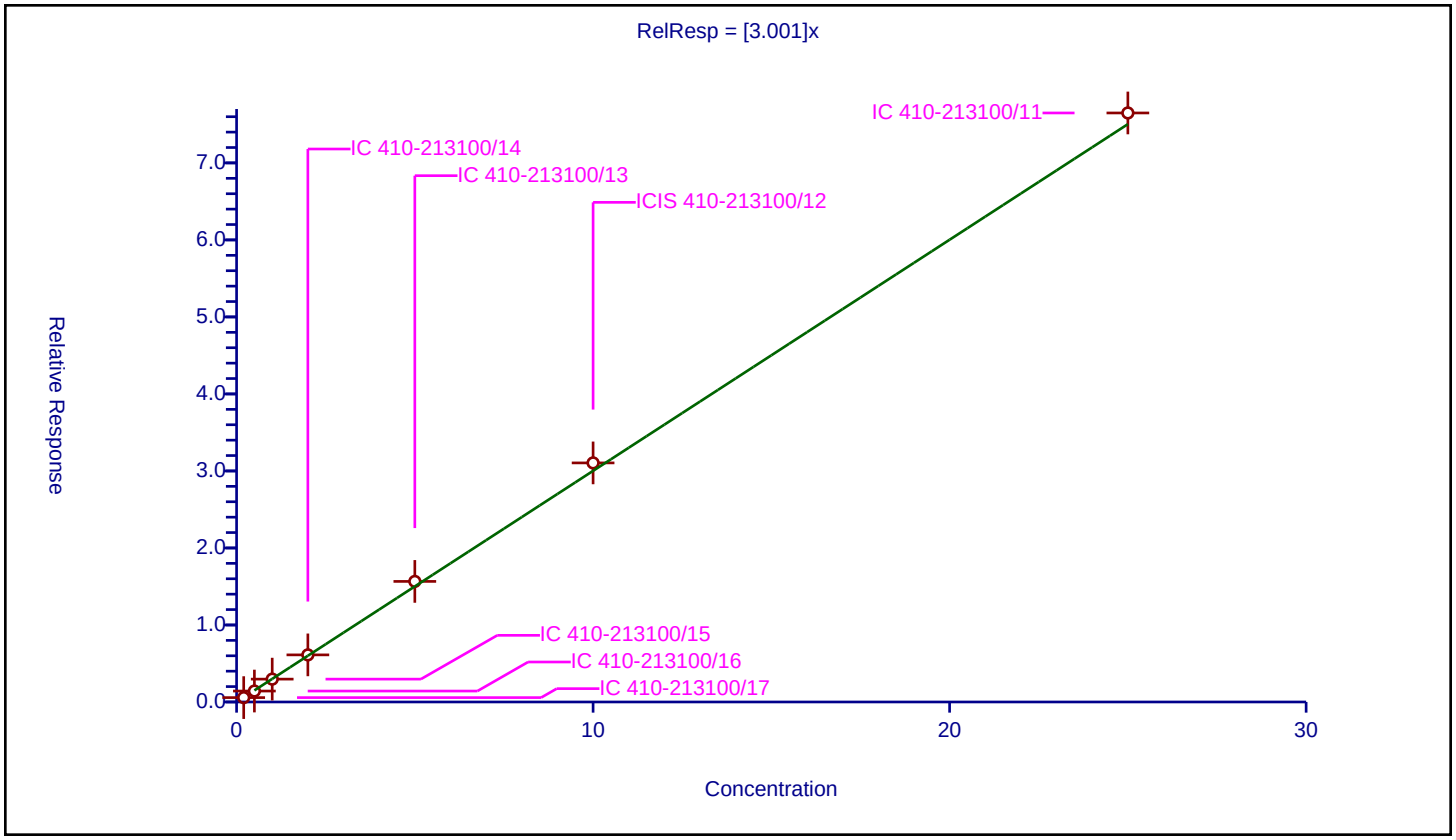
Curve Coefficients

Intercept:	0
Slope:	3.001

Error Coefficients

Standard Error:	3590000
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 410-213100/17	0.2	0.56839	10.0	975773.0	2.841952	Y
2	IC 410-213100/16	0.5	1.422357	10.0	980021.0	2.844715	Y
3	IC 410-213100/15	1.0	2.968829	10.0	984324.0	2.968829	Y
4	IC 410-213100/14	2.0	6.11553	10.0	988230.0	3.057765	Y
5	IC 410-213100/13	5.0	15.657708	10.0	1011300.0	3.131542	Y
6	ICIS 410-213100/12	10.0	31.046916	10.0	1012822.0	3.104692	Y
7	IC 410-213100/11	25.0	76.488277	10.0	1048397.0	3.059531	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

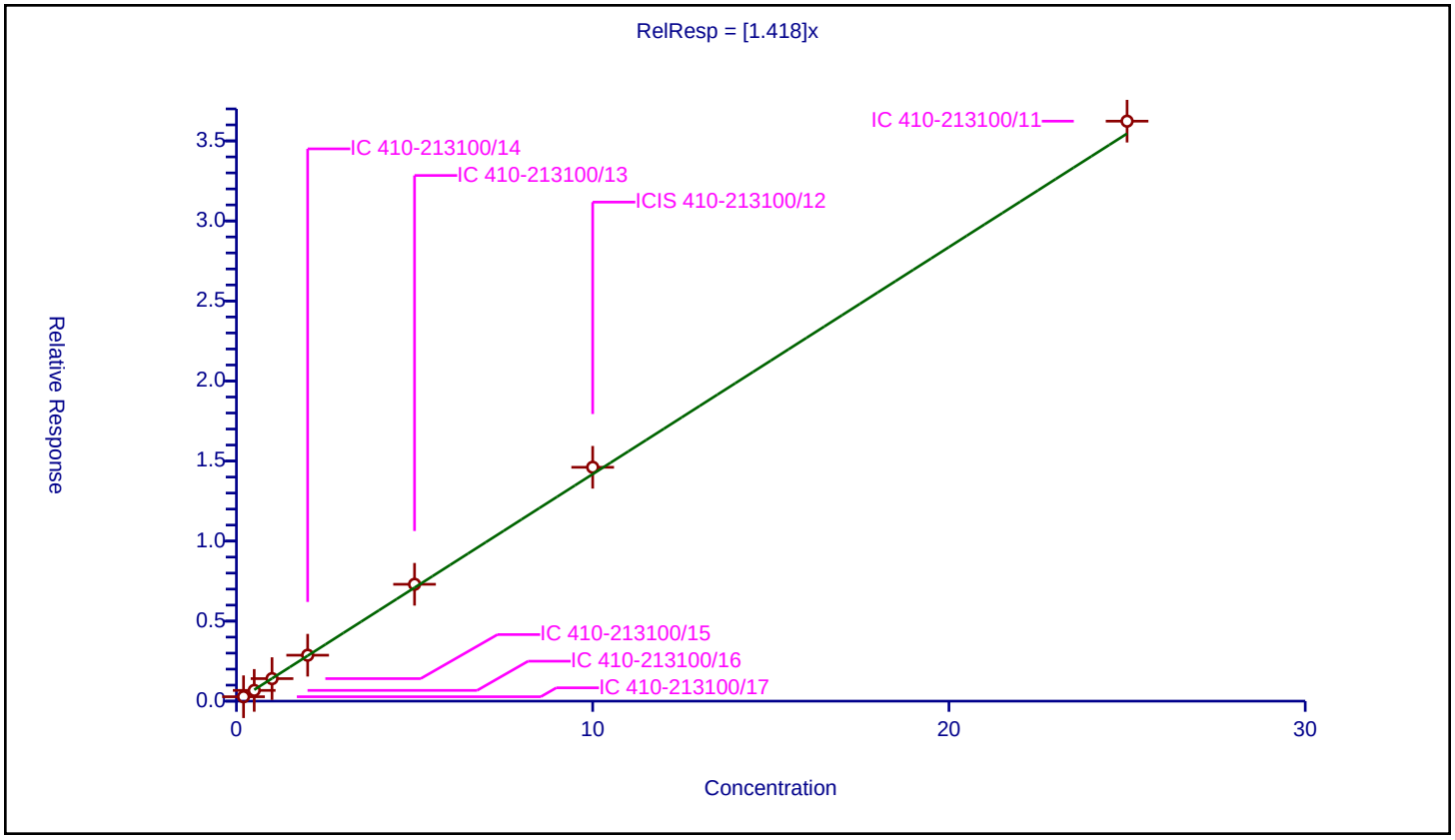
Curve Coefficients

Intercept:	0
Slope:	1.418

Error Coefficients

Standard Error:	1700000
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 410-213100/17	0.2	0.274808	10.0	975773.0	1.374039	Y
2	IC 410-213100/16	0.5	0.671343	10.0	980021.0	1.342686	Y
3	IC 410-213100/15	1.0	1.406387	10.0	984324.0	1.406387	Y
4	IC 410-213100/14	2.0	2.869312	10.0	988230.0	1.434656	Y
5	IC 410-213100/13	5.0	7.300504	10.0	1011300.0	1.460101	Y
6	ICIS 410-213100/12	10.0	14.610919	10.0	1012822.0	1.461092	Y
7	IC 410-213100/11	25.0	36.233097	10.0	1048397.0	1.449324	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

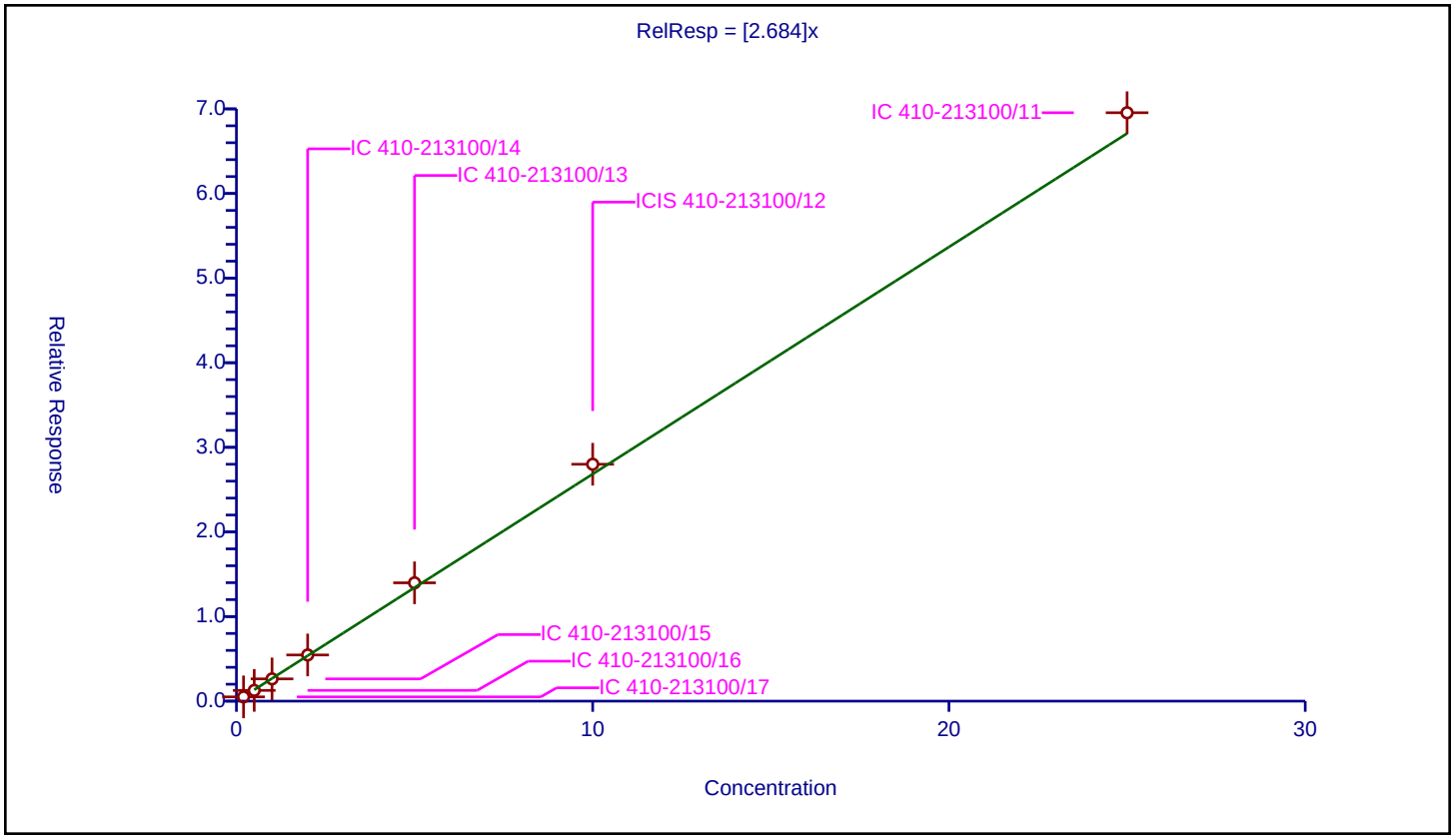
Curve Coefficients

Intercept:	0
Slope:	2.684

Error Coefficients

Standard Error:	3260000
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 410-213100/17	0.2	0.502279	10.0	975773.0	2.511394	Y
2	IC 410-213100/16	0.5	1.26931	10.0	980021.0	2.538619	Y
3	IC 410-213100/15	1.0	2.629348	10.0	984324.0	2.629348	Y
4	IC 410-213100/14	2.0	5.458011	10.0	988230.0	2.729005	Y
5	IC 410-213100/13	5.0	13.986226	10.0	1011300.0	2.797245	Y
6	ICIS 410-213100/12	10.0	27.998582	10.0	1012822.0	2.799858	Y
7	IC 410-213100/11	25.0	69.54523	10.0	1048397.0	2.781809	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

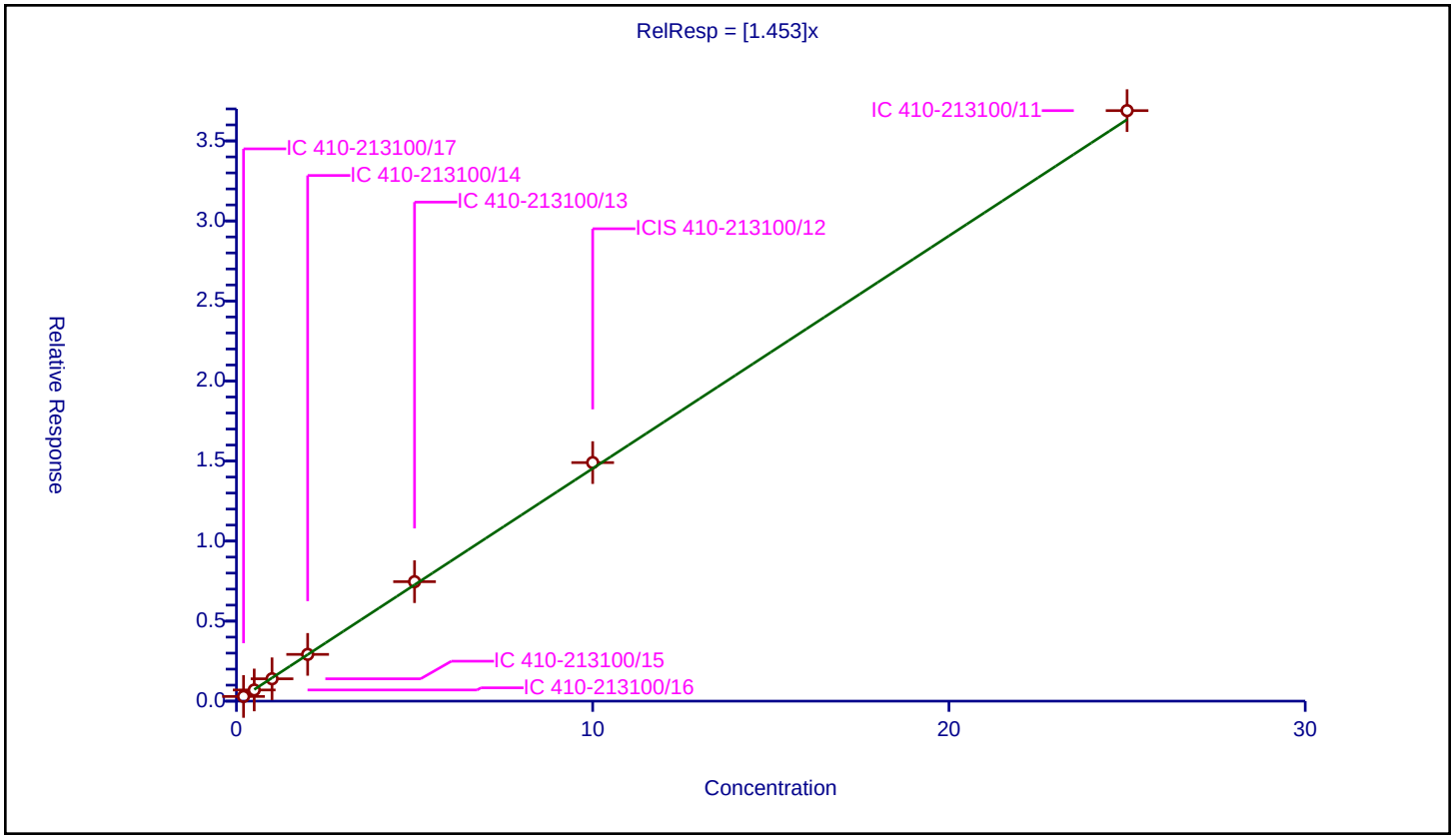
Curve Coefficients

Intercept:	0
Slope:	1.453

Error Coefficients

Standard Error:	1730000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.29266	10.0	975773.0	1.463301	Y
2	IC 410-213100/16	0.5	0.697526	10.0	980021.0	1.395052	Y
3	IC 410-213100/15	1.0	1.39638	10.0	984324.0	1.39638	Y
4	IC 410-213100/14	2.0	2.920798	10.0	988230.0	1.460399	Y
5	IC 410-213100/13	5.0	7.463245	10.0	1011300.0	1.492649	Y
6	ICIS 410-213100/12	10.0	14.902688	10.0	1012822.0	1.490269	Y
7	IC 410-213100/11	25.0	36.892351	10.0	1048397.0	1.475694	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

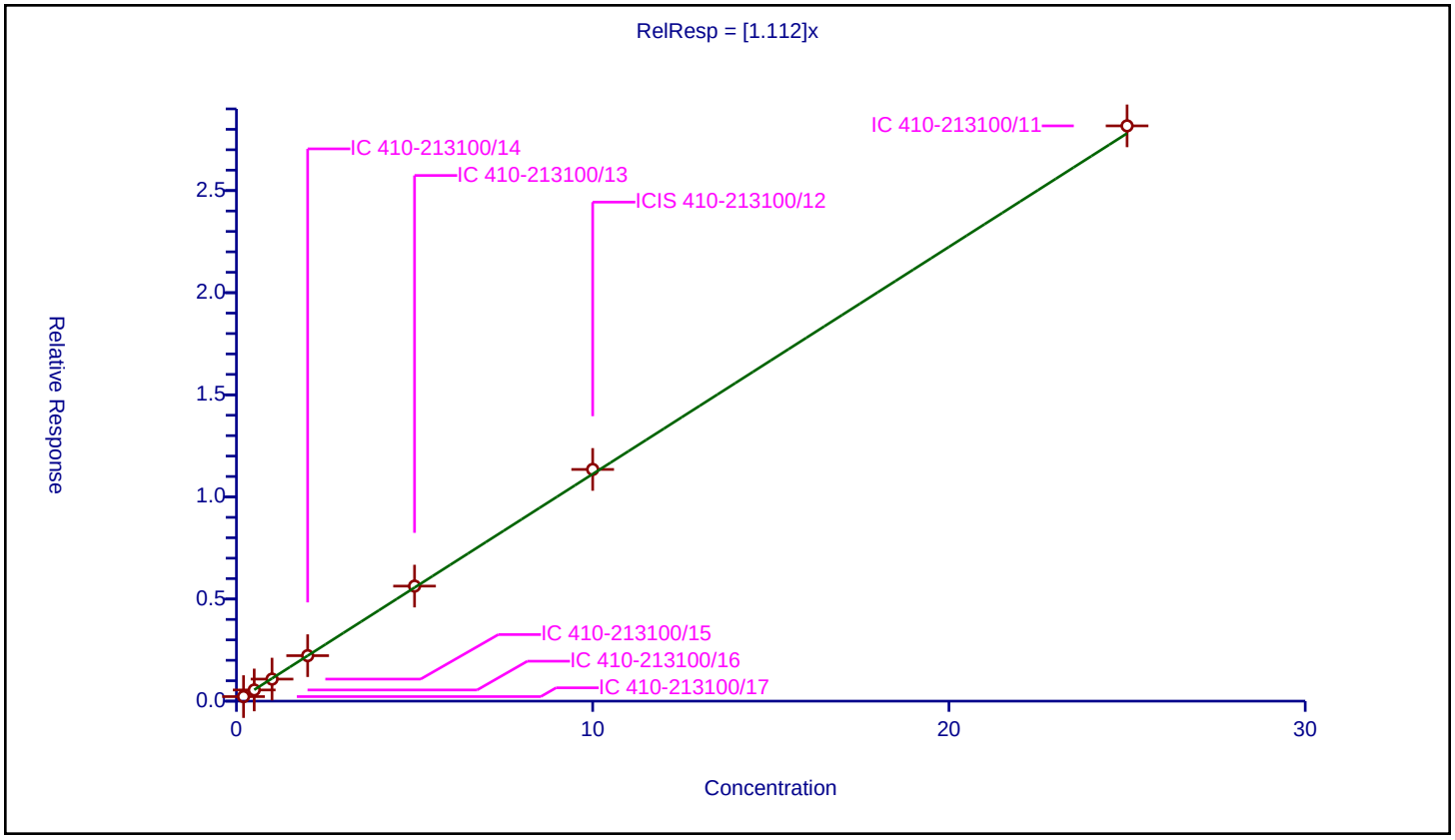
Curve Coefficients

Intercept:	0
Slope:	1.112

Error Coefficients

Standard Error:	1320000
Relative Standard Error:	1.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.222019	10.0	975773.0	1.110094	Y
2	IC 410-213100/16	0.5	0.547141	10.0	980021.0	1.094283	Y
3	IC 410-213100/15	1.0	1.078974	10.0	984324.0	1.078974	Y
4	IC 410-213100/14	2.0	2.226587	10.0	988230.0	1.113293	Y
5	IC 410-213100/13	5.0	5.633422	10.0	1011300.0	1.126684	Y
6	ICIS 410-213100/12	10.0	11.34612	10.0	1012822.0	1.134612	Y
7	IC 410-213100/11	25.0	28.1693	10.0	1048397.0	1.126772	Y



Calibration / Benzyl chloride

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

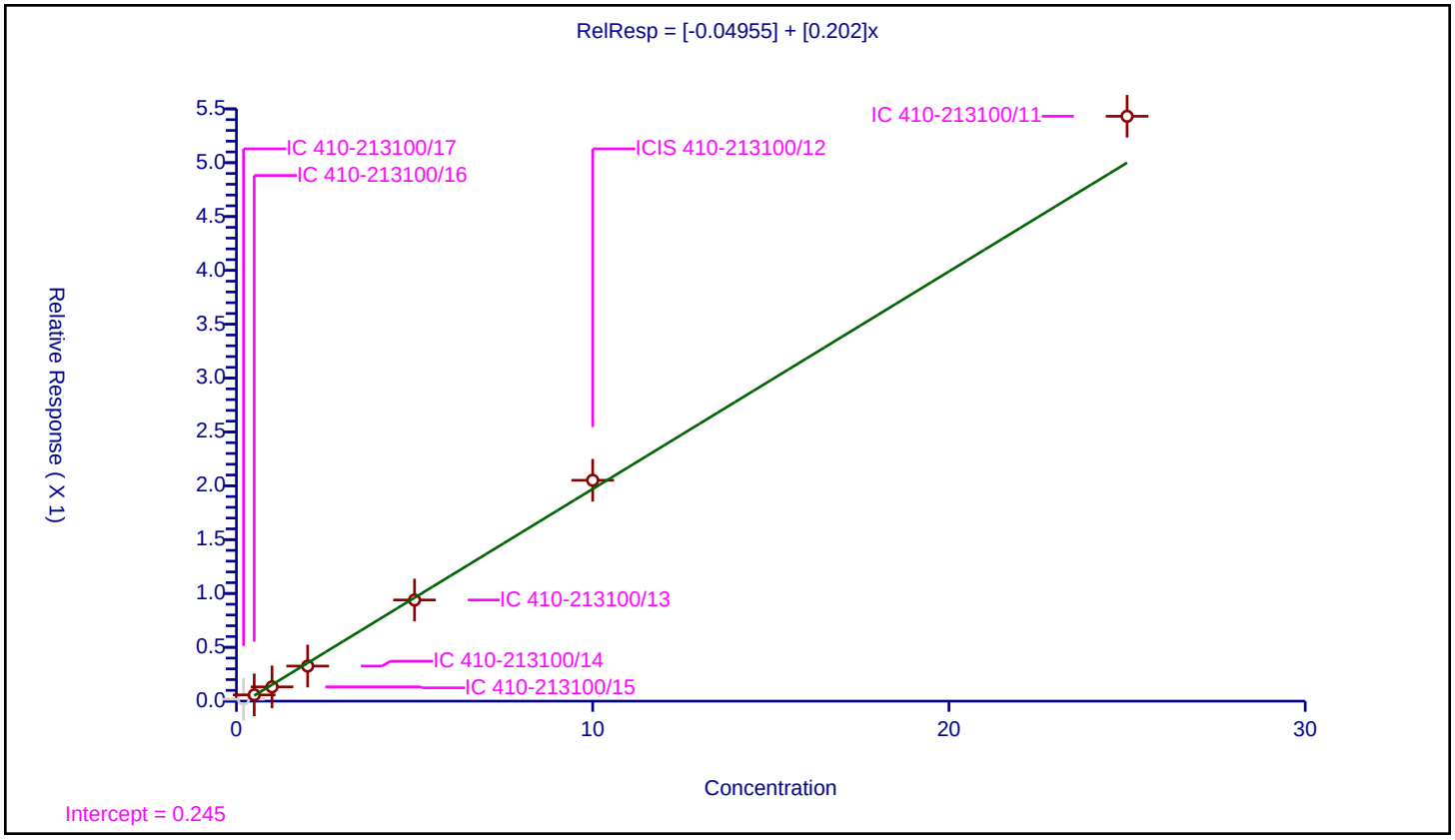
Curve Coefficients

Intercept:	-0.04955
Slope:	0.202

Error Coefficients

Standard Error:	307000
Relative Standard Error:	8.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.018068	10.0	975773.0	0.090339	N
2	IC 410-213100/16	0.5	0.05807	10.0	980021.0	0.11614	Y
3	IC 410-213100/15	1.0	0.132467	10.0	984324.0	0.132467	Y
4	IC 410-213100/14	2.0	0.325673	10.0	988230.0	0.162837	Y
5	IC 410-213100/13	5.0	0.939217	10.0	1011300.0	0.187843	Y
6	ICIS 410-213100/12	10.0	2.050963	10.0	1012822.0	0.205096	Y
7	IC 410-213100/11	25.0	5.431454	10.0	1048397.0	0.217258	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

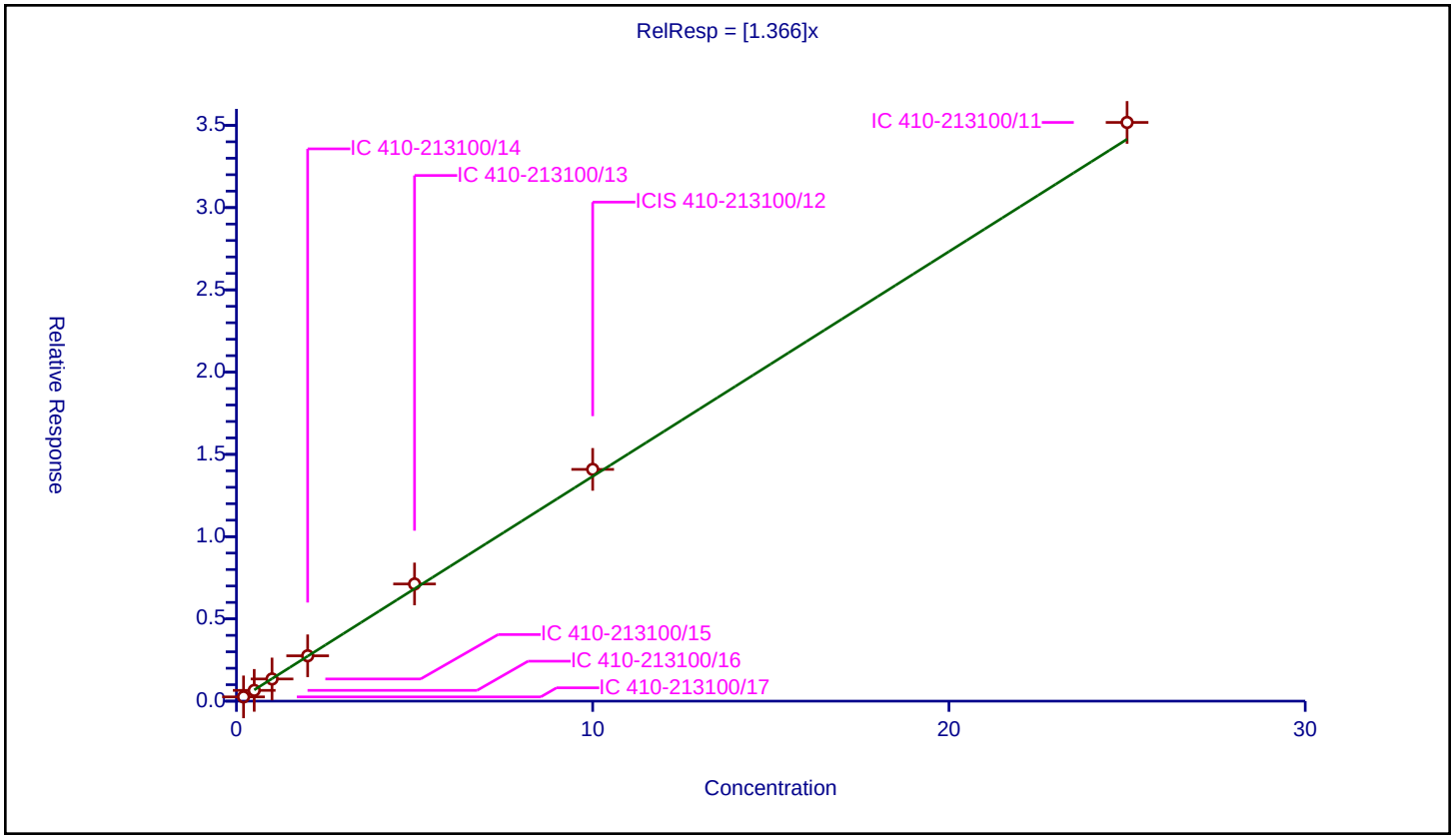
Curve Coefficients

Intercept:	0
Slope:	1.366

Error Coefficients

Standard Error:	1650000
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 410-213100/17	0.2	0.257806	10.0	975773.0	1.289029	Y
2	IC 410-213100/16	0.5	0.65419	10.0	980021.0	1.30838	Y
3	IC 410-213100/15	1.0	1.34854	10.0	984324.0	1.34854	Y
4	IC 410-213100/14	2.0	2.756332	10.0	988230.0	1.378166	Y
5	IC 410-213100/13	5.0	7.122199	10.0	1011300.0	1.42444	Y
6	ICIS 410-213100/12	10.0	14.087599	10.0	1012822.0	1.40876	Y
7	IC 410-213100/11	25.0	35.177066	10.0	1048397.0	1.407083	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

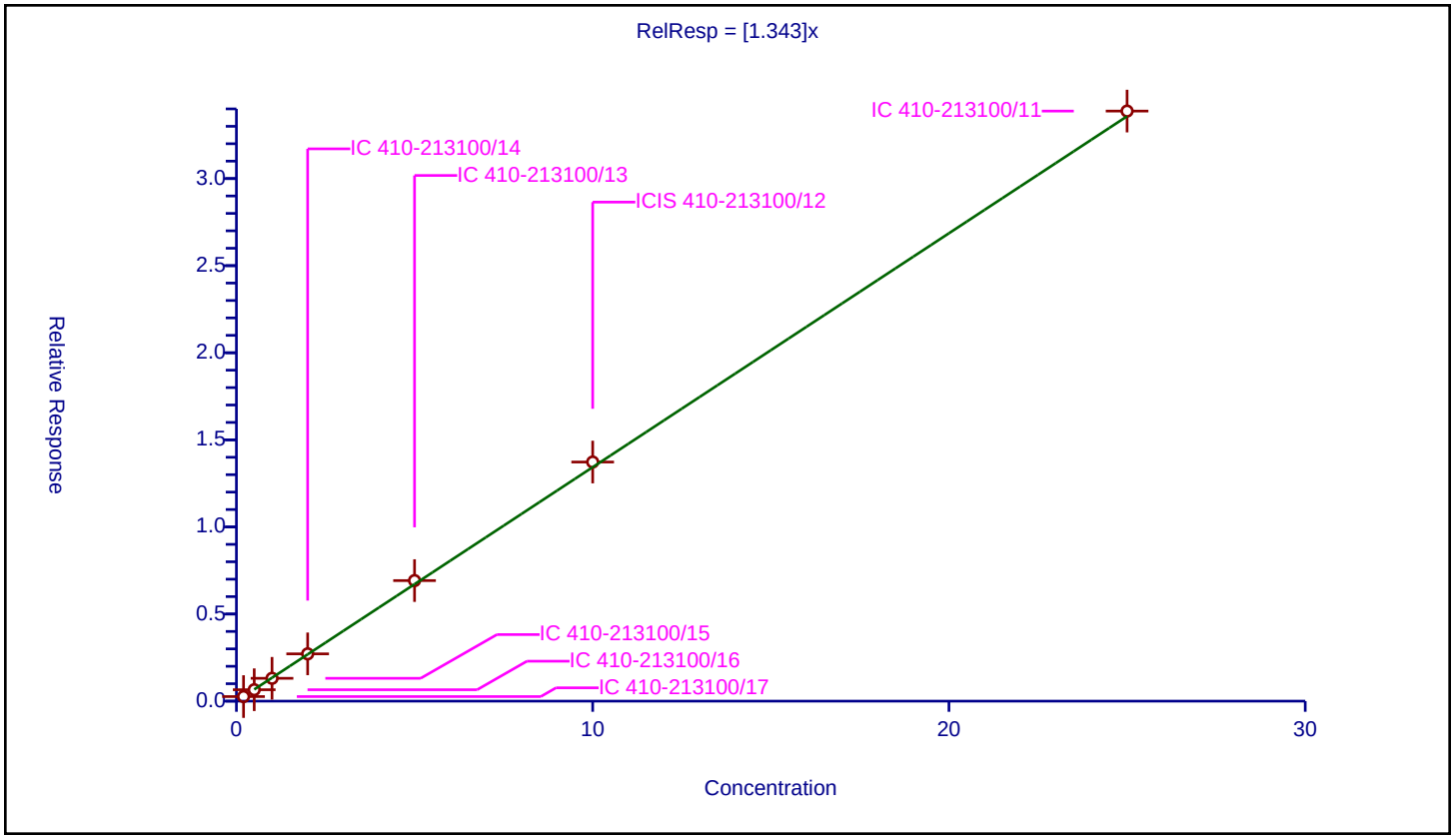
Curve Coefficients

Intercept:	0
Slope:	1.343

Error Coefficients

Standard Error:	1590000
Relative Standard Error:	2.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.26211	10.0	975773.0	1.310551	Y
2	IC 410-213100/16	0.5	0.655241	10.0	980021.0	1.310482	Y
3	IC 410-213100/15	1.0	1.310575	10.0	984324.0	1.310575	Y
4	IC 410-213100/14	2.0	2.715248	10.0	988230.0	1.357624	Y
5	IC 410-213100/13	5.0	6.920439	10.0	1011300.0	1.384088	Y
6	ICIS 410-213100/12	10.0	13.726736	10.0	1012822.0	1.372674	Y
7	IC 410-213100/11	25.0	33.874525	10.0	1048397.0	1.354981	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

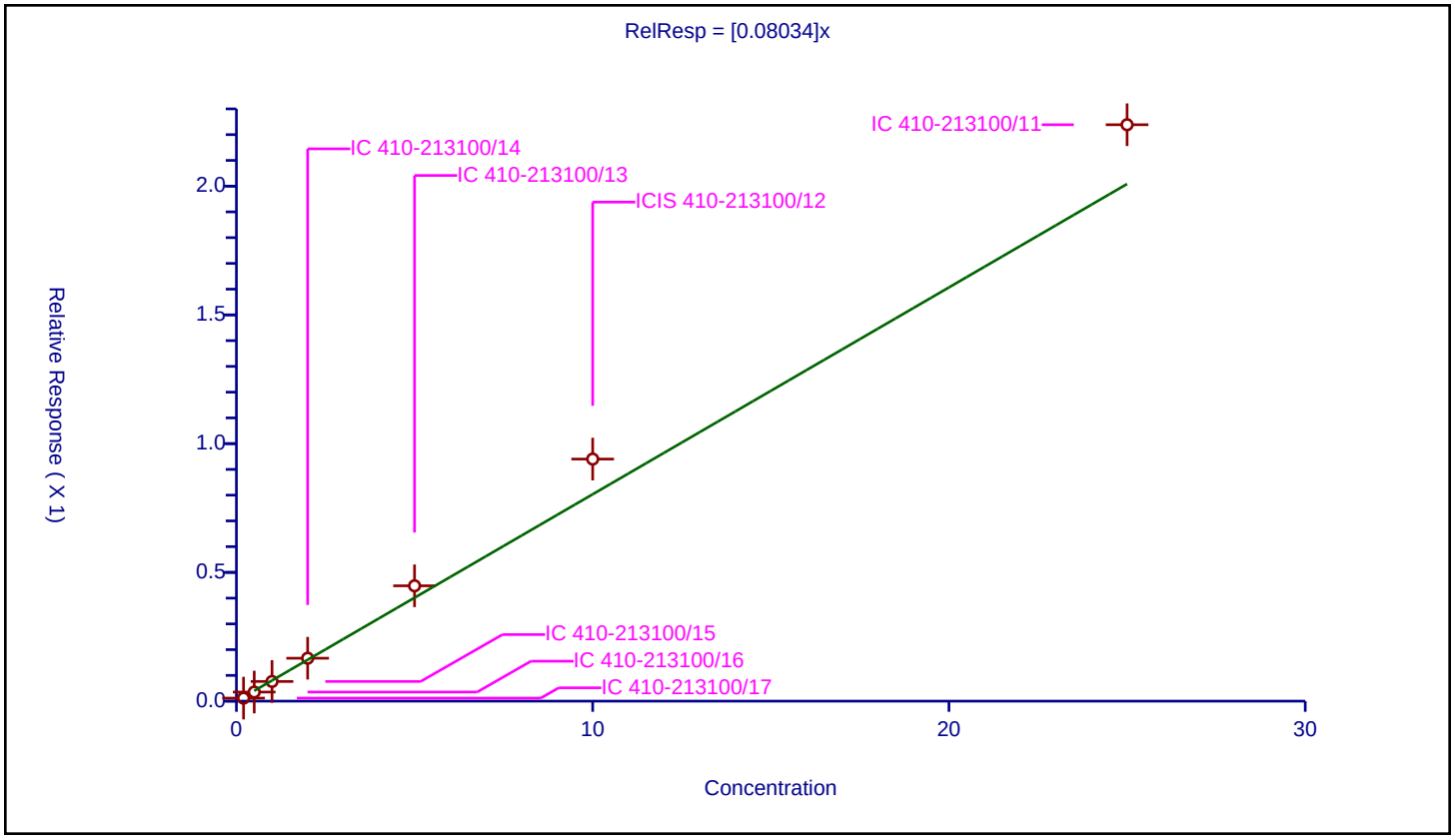
Curve Coefficients

Intercept:	0
Slope:	0.08034

Error Coefficients

Standard Error:	105000
Relative Standard Error:	15.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.011775	10.0	975773.0	0.058876	Y
2	IC 410-213100/16	0.5	0.035326	10.0	980021.0	0.070652	Y
3	IC 410-213100/15	1.0	0.076387	10.0	984324.0	0.076387	Y
4	IC 410-213100/14	2.0	0.166631	10.0	988230.0	0.083316	Y
5	IC 410-213100/13	5.0	0.447889	10.0	1011300.0	0.089578	Y
6	ICIS 410-213100/12	10.0	0.940057	10.0	1012822.0	0.094006	Y
7	IC 410-213100/11	25.0	2.238455	10.0	1048397.0	0.089538	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

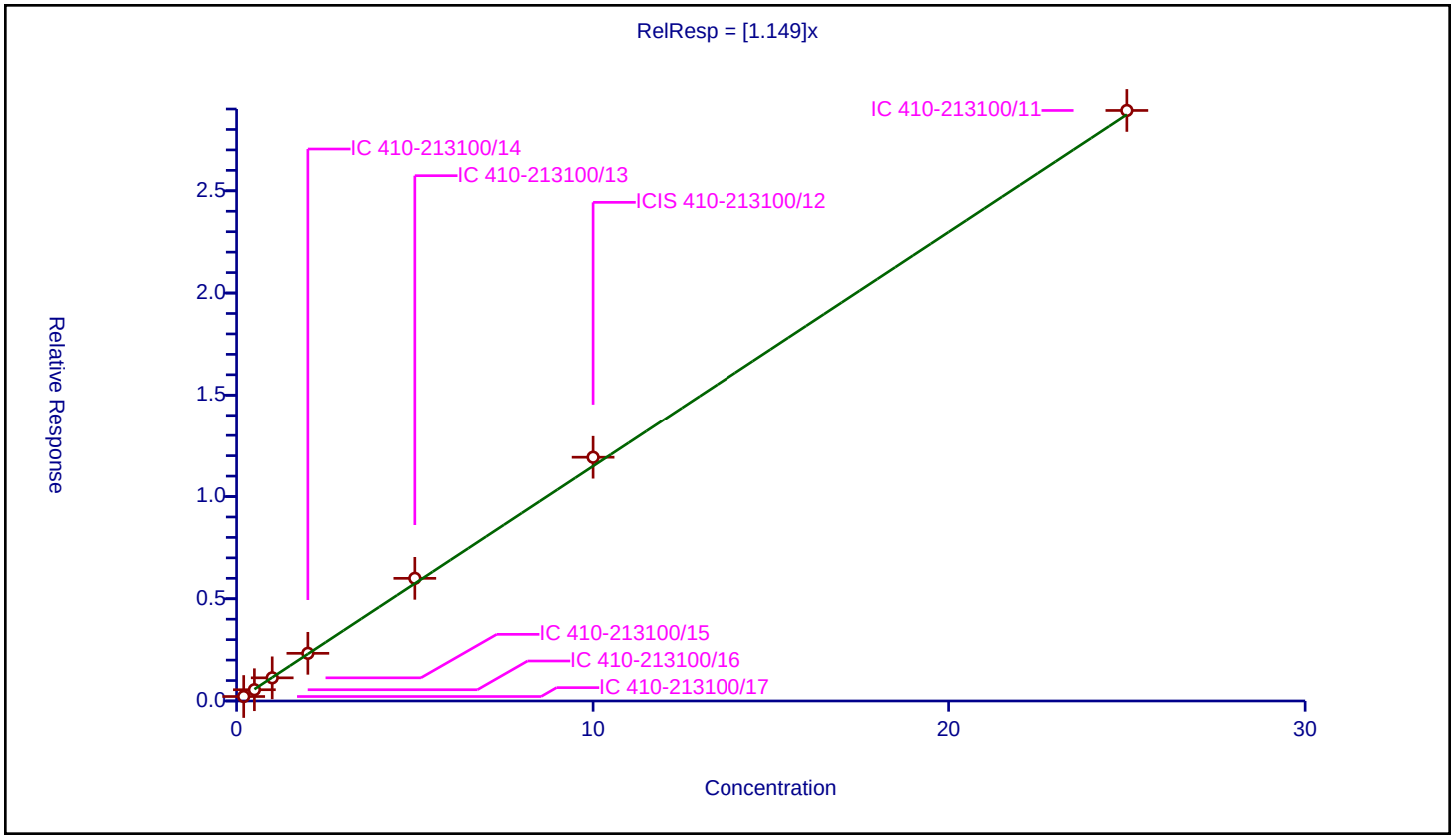
Curve Coefficients

Intercept:	0
Slope:	1.149

Error Coefficients

Standard Error:	1360000
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 410-213100/17	0.2	0.219016	10.0	975773.0	1.095081	Y
2	IC 410-213100/16	0.5	0.550784	10.0	980021.0	1.101568	Y
3	IC 410-213100/15	1.0	1.133001	10.0	984324.0	1.133001	Y
4	IC 410-213100/14	2.0	2.330864	10.0	988230.0	1.165432	Y
5	IC 410-213100/13	5.0	5.998487	10.0	1011300.0	1.199697	Y
6	ICIS 410-213100/12	10.0	11.923013	10.0	1012822.0	1.192301	Y
7	IC 410-213100/11	25.0	28.930043	10.0	1048397.0	1.157202	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

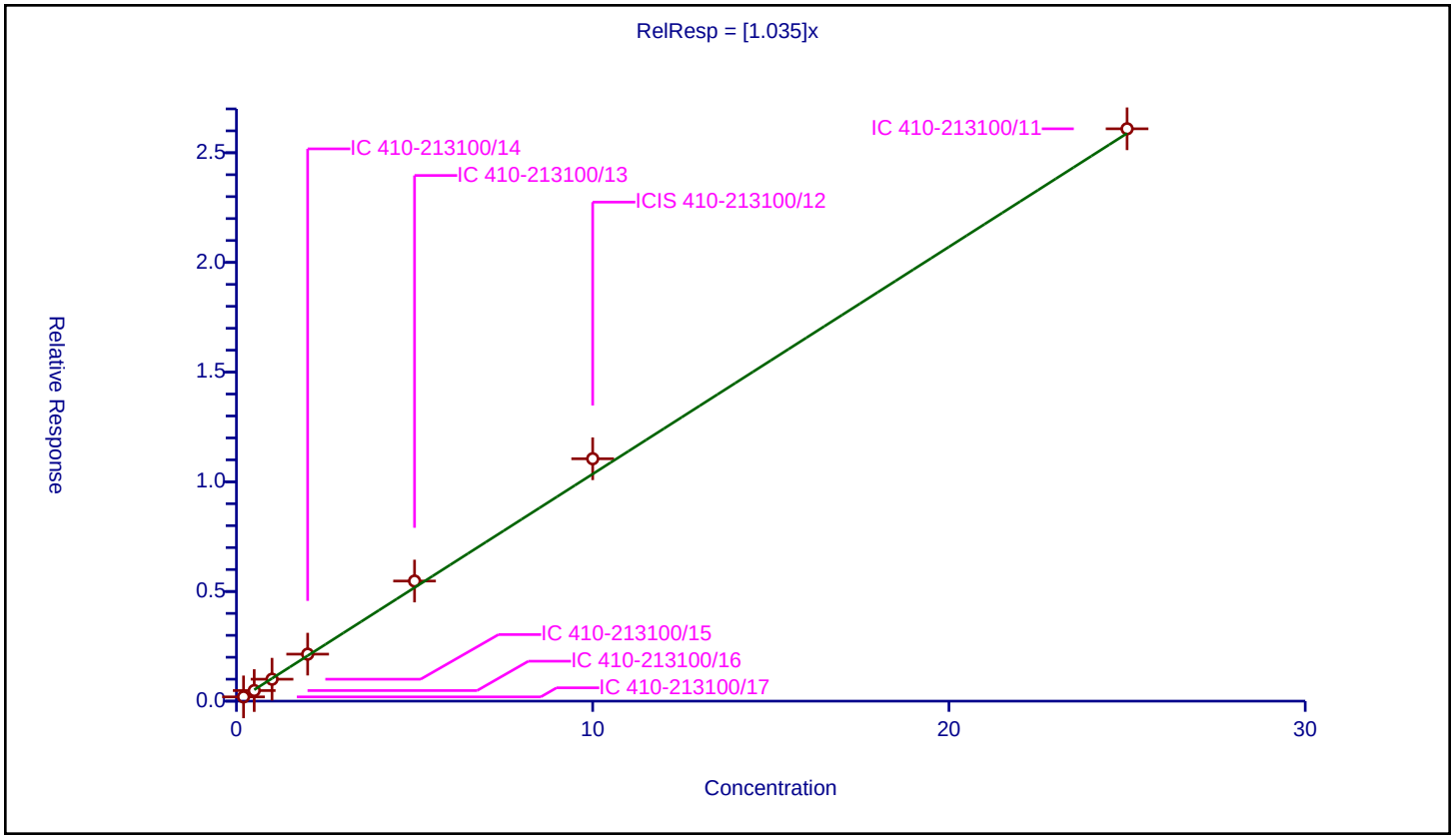
Curve Coefficients

Intercept:	0
Slope:	1.035

Error Coefficients

Standard Error:	1230000
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 410-213100/17	0.2	0.193857	10.0	975773.0	0.969283	Y
2	IC 410-213100/16	0.5	0.482122	10.0	980021.0	0.964245	Y
3	IC 410-213100/15	1.0	0.999874	10.0	984324.0	0.999874	Y
4	IC 410-213100/14	2.0	2.142224	10.0	988230.0	1.071112	Y
5	IC 410-213100/13	5.0	5.475349	10.0	1011300.0	1.09507	Y
6	ICIS 410-213100/12	10.0	11.050273	10.0	1012822.0	1.105027	Y
7	IC 410-213100/11	25.0	26.093226	10.0	1048397.0	1.043729	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

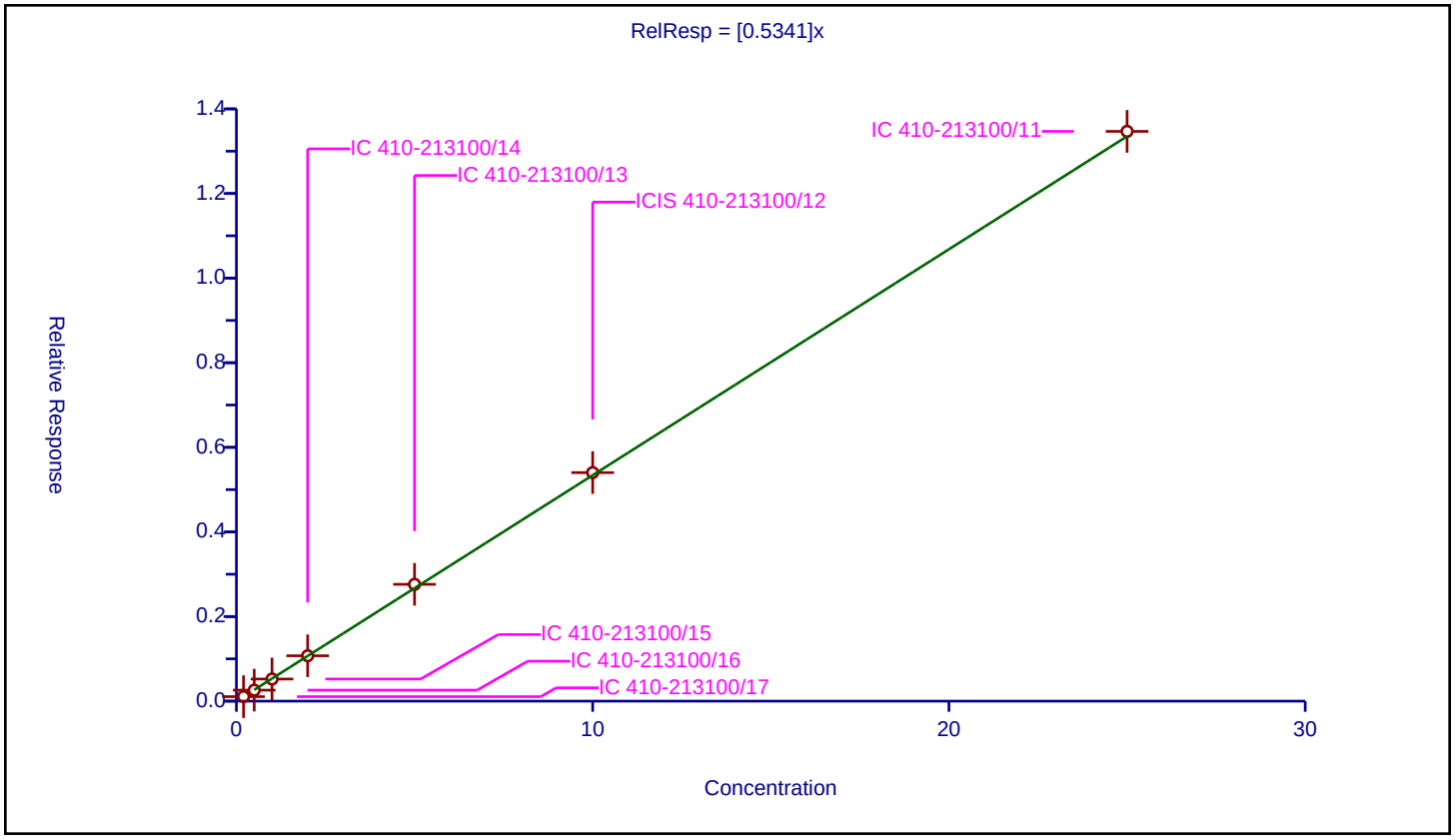
Curve Coefficients

Intercept:	0
Slope:	0.5341

Error Coefficients

Standard Error:	631000
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.105803	10.0	975773.0	0.529016	Y
2	IC 410-213100/16	0.5	0.259392	10.0	980021.0	0.518785	Y
3	IC 410-213100/15	1.0	0.52307	10.0	984324.0	0.52307	Y
4	IC 410-213100/14	2.0	1.072564	10.0	988230.0	0.536282	Y
5	IC 410-213100/13	5.0	2.761327	10.0	1011300.0	0.552265	Y
6	ICIS 410-213100/12	10.0	5.402242	10.0	1012822.0	0.540224	Y
7	IC 410-213100/11	25.0	13.468791	10.0	1048397.0	0.538752	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

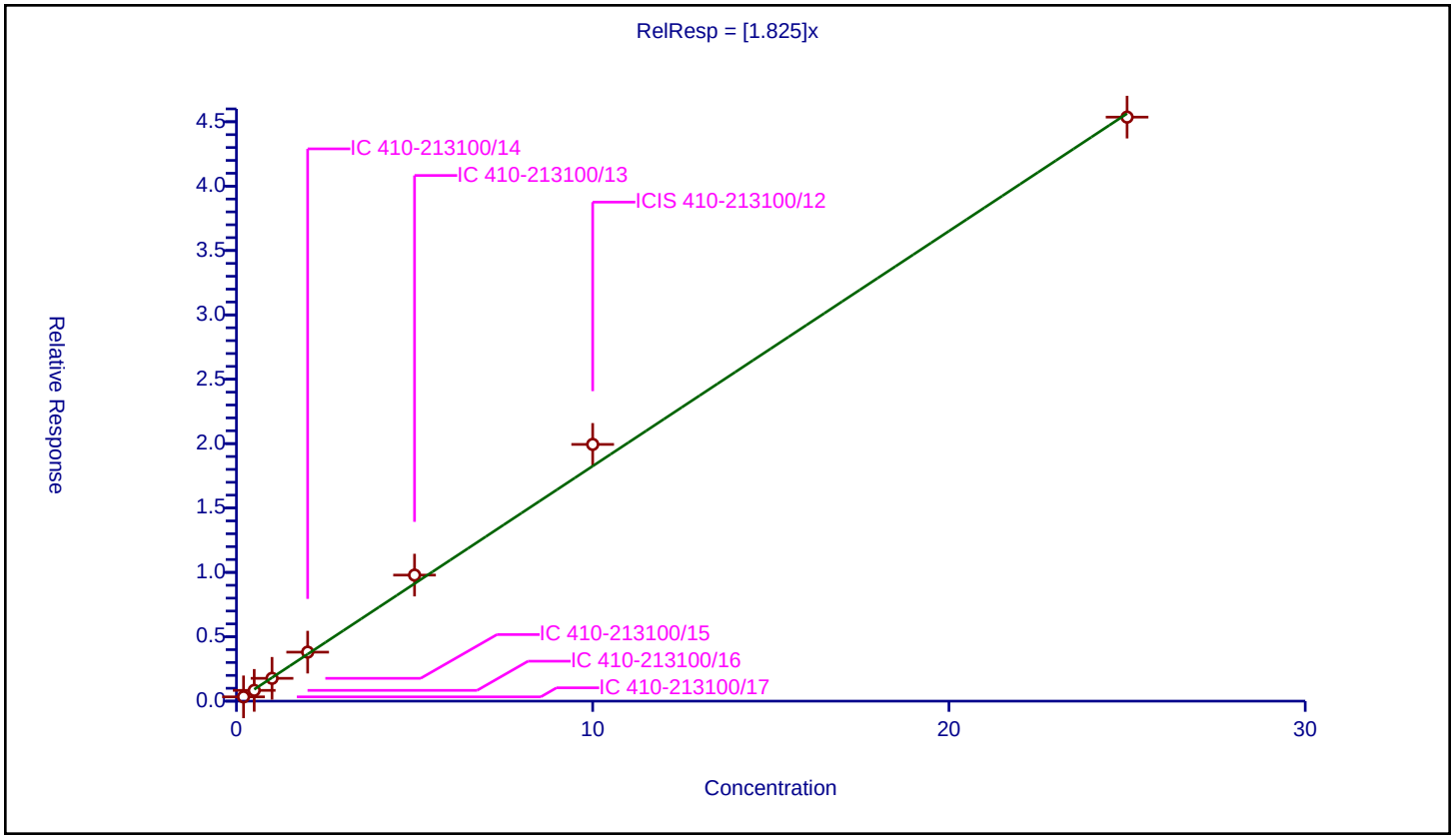
Curve Coefficients

Intercept:	0
Slope:	1.825

Error Coefficients

Standard Error:	2150000
Relative Standard Error:	7.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.33227	10.0	975773.0	1.66135	Y
2	IC 410-213100/16	0.5	0.83738	10.0	980021.0	1.67476	Y
3	IC 410-213100/15	1.0	1.772689	10.0	984324.0	1.772689	Y
4	IC 410-213100/14	2.0	3.805339	10.0	988230.0	1.902669	Y
5	IC 410-213100/13	5.0	9.790339	10.0	1011300.0	1.958068	Y
6	ICIS 410-213100/12	10.0	19.940967	10.0	1012822.0	1.994097	Y
7	IC 410-213100/11	25.0	45.359916	10.0	1048397.0	1.814397	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

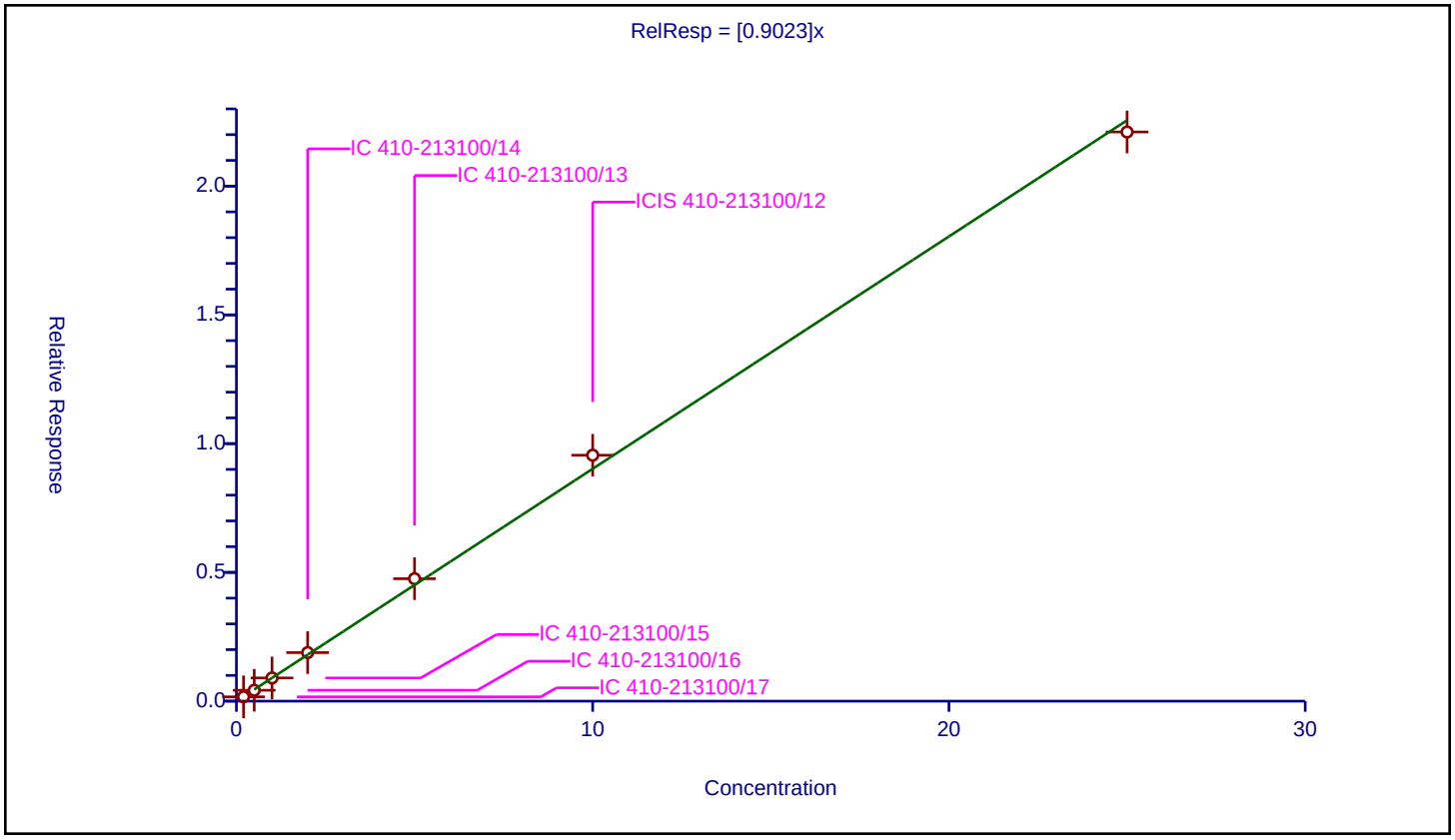
Curve Coefficients

Intercept:	0
Slope:	0.9023

Error Coefficients

Standard Error:	1050000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-213100/17	0.2	0.167436	10.0	975773.0	0.837182	Y
2	IC 410-213100/16	0.5	0.422756	10.0	980021.0	0.845512	Y
3	IC 410-213100/15	1.0	0.900628	10.0	984324.0	0.900628	Y
4	IC 410-213100/14	2.0	1.885047	10.0	988230.0	0.942524	Y
5	IC 410-213100/13	5.0	4.754504	10.0	1011300.0	0.950901	Y
6	ICIS 410-213100/12	10.0	9.550987	10.0	1012822.0	0.955099	Y
7	IC 410-213100/11	25.0	22.102705	10.0	1048397.0	0.884108	Y



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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 233459

SDG No.:

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

Calibration Start Date: 03/15/2022 01:15 Calibration End Date: 03/15/2022 03:22 Calibration ID: 36162

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-233459/18	IM14I37.D
Level 2	IC 410-233459/17	IM14I36.D
Level 3	IC 410-233459/16	IM14I35.D
Level 4	IC 410-233459/15	IM14I34.D
Level 5	IC 410-233459/14	IM14I33.D
Level 6	ICIS 410-233459/13	IM14I32.D
Level 7	IC 410-233459/12	IM14I31.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.3011 0.3842	0.3801 0.3920	0.3865	0.3775	0.3902	Ave		0.3731			0.1000	8.6		20.0			
Chloromethane	0.4254 0.3802	0.3926 0.3584	0.3727	0.3809	0.3822	Ave		0.3846			0.1000	5.4		20.0			
Vinyl chloride	0.3822 0.4141	0.4239 0.3907	0.4120	0.4014	0.4196	Ave		0.4063			0.1000	3.8		20.0			
1,3-Butadiene	0.3767 0.3958	0.4022 0.3600	0.4194	0.4245	0.4021	Ave		0.3972				5.7		20.0			
Bromomethane	0.3542 0.3367	0.3425 0.3484	0.3251	0.3188	0.3294	Ave		0.3364			0.1000	3.8		20.0			
Chloroethane	0.2378 0.2504	0.2567 0.2541	0.2407	0.2422	0.2483	Ave		0.2471			0.1000	2.9		20.0			
Dichlorofluoromethane	0.6593 0.6273	0.6161 0.6121	0.6149	0.6102	0.6105	Ave		0.6215			0.1000	2.8		20.0			
Trichlorofluoromethane	0.5469 0.6167	0.6013 0.6152	0.6074	0.6163	0.6238	Ave		0.6039			0.1000	4.3		20.0			
Ethyl ether	0.1678 0.1658	0.1686 0.1665	0.1679	0.1638	0.1673	Ave		0.1668				1.0		20.0			
Freon 123a	0.3590 0.3366	0.3494 0.3433	0.3595	0.3391	0.3415	Ave		0.3469				2.7		20.0			
Acrolein	1.9983 2.0487	2.0765 1.8583	2.0078	2.0934	1.9682	Ave		2.0073				4.0		20.0			
1,1-Dichloroethene	0.2637 0.2528	0.2595 0.2590	0.2766	0.2603	0.2645	Ave		0.2623			0.1000	2.8		20.0			
Acetone	3.2498 2.4723	2.9711 2.1504	2.8622	2.6413	2.6381	Ave		2.7122			0.1000	13.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 233459

SDG No.:

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

Calibration Start Date: 03/15/2022 01:15 Calibration End Date: 03/15/2022 03:22 Calibration ID: 36162

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	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	0.2524 0.2702	0.2634 0.2797	0.2950	0.2805	0.2865	Ave		0.2754			0.1000	5.2		20.0			
Methyl iodide	0.5613 0.5170	0.5149 0.5320	0.5645	0.5432	0.5311	Ave		0.5377				3.7		20.0			
Carbon disulfide	0.5906 0.5774	0.5642 0.6030	0.5958	0.5921	0.5943	Ave		0.5882			0.1000	2.2		20.0			
Methyl acetate	12.030 6.3273	6.7384 6.5299	7.6667	6.9772	7.0272	Lin	0.8864	6.4725			0.1000				1.0000		0.9900
Allyl chloride	0.3769 0.3642	0.3736 0.3634	0.3821	0.3726	0.3688	Ave		0.3717				1.8		20.0			
Methylene Chloride	0.2981 0.2635	0.2670 0.2652	0.2805	0.2761	0.2694	Ave		0.2743			0.1000	4.4		20.0			
t-Butyl alcohol	0.9726 1.0500	1.1813 0.8808	0.8615	1.0659	0.9976	Ave		1.0014				11.1		20.0			
Acrylonitrile	2.8240 3.3265	3.5581 2.9550	3.2612	3.1381	3.2819	Ave		3.1921				7.7		20.0			
Methyl tertiary butyl ether	0.7542 0.6648	0.6563 0.6715	0.6905	0.6830	0.6756	Ave		0.6851			0.1000	4.7		20.0			
trans-1,2-Dichloroethene	0.3136 0.2849	0.2990 0.2909	0.3109	0.2929	0.2905	Ave		0.2975			0.1000	3.7		20.0			
n-Hexane	0.3211 0.3585	0.3453 0.3651	0.3827	0.3778	0.3746	Ave		0.3607				6.0		20.0			
1,1-Dichloroethane	0.5155 0.4924	0.5068 0.4993	0.5267	0.5190	0.5048	Ave		0.5092			0.2000	2.3		20.0			
di-Isopropyl ether	0.7959 0.7964	0.7623 0.7935	0.8140	0.8000	0.8033	Ave		0.7950				2.0		20.0			
2-Chloro-1,3-butadiene	0.4256 0.4054	0.4003 0.4221	0.4225	0.4087	0.4182	Ave		0.4147				2.4		20.0			
Ethyl t-butyl ether	0.8380 0.7916	0.8000 0.7975	0.8351	0.8002	0.8026	Ave		0.8093				2.3		20.0			
2-Butanone	4.4038 4.7114	4.9328 4.2757	5.0509	4.7925	4.7412	Ave		4.7012			0.1000	5.9		20.0			
cis-1,2-Dichloroethene	0.3816 0.3192	0.3394 0.3239	0.3563	0.3343	0.3246	Ave		0.3399			0.1000	6.5		20.0			
2,2-Dichloropropane	0.4622 0.4664	0.4607 0.4787	0.4847	0.4782	0.4749	Ave		0.4723				1.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 233459

SDG No.:

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

Calibration Start Date: 03/15/2022 01:15 Calibration End Date: 03/15/2022 03:22 Calibration ID: 36162

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	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								
Propionitrile	1.1029 1.2342	1.2203 1.1677	1.3151	1.2122	1.1743	Ave		1.2038				5.5		20.0			
Methacrylonitrile	4.6645 4.7701	4.8939 4.5187	5.2061	4.9035	4.7214	Ave		4.8112				4.6		20.0			
Bromochloromethane	0.1604 0.1494	0.1553 0.1527	0.1678	0.1521	0.1534	Ave		0.1559				4.0		20.0			
Tetrahydrofuran	1.3127 1.3305	1.3853 1.2091	1.3375	1.3797	1.3529	Ave		1.3297				4.5		20.0			
Chloroform	0.5772 0.5301	0.5380 0.5406	0.5700	0.5422	0.5403	Ave		0.5483			0.2000	3.3		20.0			
1,1,1-Trichloroethane	0.5511 0.5140	0.5209 0.5282	0.5448	0.5366	0.5276	Ave		0.5319			0.1000	2.5		20.0			
Cyclohexane	0.4020 0.4464	0.4075 0.4616	0.4838	0.4700	0.4586	Ave		0.4471			0.1000	7.0		20.0			
1,1-Dichloropropene	0.4295 0.4009	0.3877 0.4188	0.4120	0.4130	0.4104	Ave		0.4103				3.2		20.0			
Carbon tetrachloride	0.4781 0.4837	0.4760 0.5093	0.5083	0.4923	0.4957	Ave		0.4919			0.1000	2.7		20.0			
Isobutyl alcohol	0.3691 0.3373	0.3333 0.3028	0.3509	0.3238	0.3463	Ave		0.3377				6.2		20.0			
Benzene	1.2210 1.1436	1.1535 1.1814	1.2007	1.1793	1.1691	Ave		1.1784			0.5000	2.3		20.0			
1,2-Dichloroethane	0.3619 0.3155	0.3191 0.3253	0.3476	0.3136	0.3165	Ave		0.3285			0.1000	5.7		20.0			
t-Amyl methyl ether	0.7849 0.7399	0.7368 0.7533	0.7751	0.7507	0.7456	Ave		0.7552				2.4		20.0			
n-Heptane	0.4023 0.3706	0.3824 0.3790	0.3878	0.3837	0.3913	Ave		0.3853				2.6		20.0			
n-Butanol	0.1983 0.3182	0.2706 0.2575	0.2440	0.2752	0.3057	Ave		0.2671				14.9		20.0			
Trichloroethene	0.3557 0.3278	0.3269 0.3411	0.3510	0.3344	0.3329	Ave		0.3385			0.2000	3.3		20.0			
Methylcyclohexane	0.4889 0.5363	0.4996 0.5559	0.5781	0.5672	0.5533	Ave		0.5399			0.1000	6.3		20.0			
1,2-Dichloropropane	0.2689 0.2821	0.2706 0.2930	0.2850	0.2872	0.2896	Ave		0.2824			0.1000	3.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 233459

SDG No.:

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

Calibration Start Date: 03/15/2022 01:15 Calibration End Date: 03/15/2022 03:22 Calibration ID: 36162

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	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								
Methyl methacrylate	7.8711 9.1053	9.7706 9.0719	9.3729	9.4215	9.1953	Ave		9.1155				6.6		20.0			
1,4-Dioxane	+++++ 0.0750	0.0730 0.0591	0.0630	0.0730	0.0699	Ave		0.0688			0.0050	9.2		20.0			
Dibromomethane	0.1599 0.1521	0.1660 0.1542	0.1580	0.1491	0.1547	Ave		0.1563				3.6		20.0			
Bromodichloromethane	0.3585 0.3757	0.3589 0.3917	0.3791	0.3728	0.3734	Ave		0.3729			0.2000	3.1		20.0			
2-Nitropropane	2.5621 2.9053	2.8969 2.9155	2.8473	2.8480	2.8494	Ave		2.8321				4.3		20.0			
cis-1,3-Dichloropropene	0.4284 0.4471	0.4074 0.4655	0.4407	0.4352	0.4491	Ave		0.4391			0.2000	4.2		20.0			
4-Methyl-2-pentanone	10.693 12.715	13.024 12.580	12.812	12.596	12.612	Ave		12.433			0.1000	6.3		20.0			
Toluene	0.9770 0.9160	0.9402 0.9423	0.9662	0.9309	0.9310	Ave		0.9434			0.4000	2.3		20.0			
trans-1,3-Dichloropropene	0.3652 0.4437	0.4047 0.4606	0.4228	0.4268	0.4422	Ave		0.4237			0.1000	7.4		20.0			
Ethyl methacrylate	0.2824 0.3462	0.3145 0.3586	0.3261	0.3259	0.3465	Ave		0.3286				7.7		20.0			
1,1,2-Trichloroethane	0.2606 0.2482	0.2629 0.2528	0.2793	0.2551	0.2509	Ave		0.2585			0.1000	4.1		20.0			
Tetrachloroethene	0.5377 0.5324	0.5311 0.5426	0.5650	0.5478	0.5408	Ave		0.5425			0.2000	2.1		20.0			
1,3-Dichloropropane	0.4132 0.4082	0.4100 0.4143	0.4260	0.4173	0.4209	Ave		0.4157				1.5		20.0			
2-Hexanone	6.2452 9.0742	8.5380 9.1007	8.2483	8.5857	8.6622	Ave		8.3506			0.1000	11.7		20.0			
Dibromochloromethane	0.3371 0.3562	0.3394 0.3771	0.3428	0.3463	0.3565	Ave		0.3508				4.0		20.0			
1,2-Dibromoethane	0.2222 0.2531	0.2507 0.2596	0.2588	0.2507	0.2620	Ave		0.2510			0.1000	5.4		20.0			
1-Chlorohexane	0.6418 0.5478	0.5691 0.5619	0.5717	0.5528	0.5551	Ave		0.5715				5.6		20.0			
Chlorobenzene	1.0923 1.0813	1.1540 1.1210	1.1594	1.0988	1.1089	Ave		1.1165			0.5000	2.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 233459

SDG No.:

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

Calibration Start Date: 03/15/2022 01:15 Calibration End Date: 03/15/2022 03:22 Calibration ID: 36162

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	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								
1,1,1,2-Tetrachloroethane	0.3662 0.4157	0.4098 0.4394	0.4211	0.4151	0.4191	Ave		0.4123				5.4		20.0			
Ethylbenzene	1.8717 1.8307	1.8632 1.8970	1.9194	1.8337	1.8500	Ave		1.8665			0.1000	1.7		20.0			
m&p-Xylene	0.7528 0.7526	0.7563 0.7897	0.7837	0.7548	0.7611	Ave		0.7645			0.1000	2.0		20.0			
o-Xylene	0.7383 0.7366	0.7597 0.7786	0.7699	0.7415	0.7422	Ave		0.7524			0.3000	2.2		20.0			
Styrene	1.1177 1.1852	1.1305 1.2603	1.1798	1.1512	1.1761	Ave		1.1715			0.3000	4.0		20.0			
Bromoform	0.1853 0.2344	0.2026 0.2468	0.2074	0.2106	0.2252	Ave		0.2160			0.1000	9.6		20.0			
Isopropylbenzene	1.9114 1.9540	1.9695 1.9998	2.0024	1.9541	1.9548	Ave		1.9637			0.1000	1.6		20.0			
1,1,2,2-Tetrachloroethane	0.5149 0.5194	0.5384 0.5439	0.5413	0.5102	0.5359	Ave		0.5291			0.3000	2.6		20.0			
Bromobenzene	0.8424 0.8034	0.8567 0.8593	0.8596	0.8237	0.8446	Ave		0.8414				2.5		20.0			
trans-1,4-Dichloro-2-butene	2.9110 5.1398	4.3318 5.4265	4.3068	4.5578	4.7266	Ave		4.4858				18.0		20.0			
1,2,3-Trichloropropane	0.1466 0.1500	0.1753 0.1524	0.1620	0.1524	0.1577	Ave		0.1566				6.2		20.0			
N-Propylbenzene	3.6220 3.5982	3.6888 3.6614	3.7469	3.6310	3.7431	Ave		3.6702				1.6		20.0			
2-Chlorotoluene	0.7506 0.7749	0.8439 0.8110	0.8380	0.8180	0.8124	Ave		0.8070				4.1		20.0			
1,3,5-Trimethylbenzene	2.5950 2.6716	2.7845 2.7943	2.7379	2.6861	2.7424	Ave		2.7160				2.6		20.0			
4-Chlorotoluene	0.8438 0.7965	0.8738 0.8272	0.7985	0.8147	0.8172	Ave		0.8245				3.3		20.0			
tert-Butylbenzene	0.6716 0.6311	0.6547 0.6582	0.6489	0.6574	0.6597	Ave		0.6545				1.9		20.0			
Pentachloroethane	0.4761 0.5599	0.5079 0.6042	0.5105	0.5374	0.5673	Ave		0.5376				8.0		20.0			
1,2,4-Trimethylbenzene	2.5223 2.7253	2.7720 2.8577	2.7882	2.7337	2.7729	Ave		2.7389				3.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 233459

SDG No.:

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

Calibration Start Date: 03/15/2022 01:15 Calibration End Date: 03/15/2022 03:22 Calibration ID: 36162

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	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								
sec-Butylbenzene	3.3368 3.4146	3.4904 3.5024	3.5435	3.4656	3.5139	Ave		3.4667				2.0		20.0			
1,3-Dichlorobenzene	1.5686 1.6017	1.7033 1.7059	1.6613	1.6055	1.6225	Ave		1.6384			0.6000	3.2		20.0			
p-Isopropyltoluene	2.9708 3.0857	3.1564 3.2540	3.1523	3.0919	3.1277	Ave		3.1198				2.8		20.0			
1,4-Dichlorobenzene	1.7310 1.6048	1.7426 1.6935	1.6531	1.6495	1.6403	Ave		1.6735			0.5000	3.0		20.0			
1,2,3-Trimethylbenzene	1.2689 1.2160	1.3393 1.2992	1.2740	1.2179	1.2430	Ave		1.2655				3.5		20.0			
Benzyl chloride	0.1789 0.2319	0.1925 0.2512	0.2022	0.2061	0.2354	Ave		0.2140				12.1		20.0			
n-Butylbenzene	1.2216 1.4268	1.3349 1.5379	1.3822	1.3808	1.4096	Ave		1.3848				6.9		20.0			
1,2-Dichlorobenzene	1.4265 1.4744	1.5306 1.5609	1.5095	1.4616	1.4900	Ave		1.4934			0.4000	3.0		20.0			
1,2-Dibromo-3-Chloropropane	0.0558 0.0906	0.0854 0.0970	0.0841	0.0860	0.0936	Ave		0.0846			0.0500	16.0		20.0			
1,3,5-Trichlorobenzene	1.1286 1.2290	1.2521 1.2559	1.2330	1.2376	1.2287	Ave		1.2235				3.5		20.0			
1,2,4-Trichlorobenzene	0.9509 1.0527	0.9810 1.0707	1.0538	1.0294	1.0781	Ave		1.0310			0.2000	4.6		20.0			
Hexachlorobutadiene	0.5538 0.4439	0.4520 0.4573	0.4724	0.4527	0.4407	Ave		0.4676				8.4		20.0			
Naphthalene	1.6404 1.7690	1.7693 1.7731	1.7762	1.7871	1.8317	Ave		1.7638				3.3		20.0			
1,2,3-Trichlorobenzene	0.9214 0.8866	0.9035 0.8834	0.9279	0.8889	0.9085	Ave		0.9029				1.9		20.0			
Dibromofluoromethane (Surr)	0.2708 0.2702	0.2693 0.2713	0.2721	0.2718	0.2693	Ave		0.2707				0.4		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0497 0.0476	0.0491 0.0483	0.0478	0.0477	0.0473	Ave		0.0482				1.8		20.0			
Toluene-d8 (Surr)	1.2218 1.2157	1.2150 1.2048	1.2157	1.2264	1.2192	Ave		1.2169				0.6		20.0			
4-Bromofluorobenzene (Surr)	0.4759 0.4695	0.4711 0.4686	0.4731	0.4754	0.4700	Ave		0.4719				0.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 233459

SDG No.:

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

Calibration Start Date: 03/15/2022 01:15 Calibration End Date: 03/15/2022 03:22 Calibration ID: 36162

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-233459/18	IM14I37.D
Level 2	IC 410-233459/17	IM14I36.D
Level 3	IC 410-233459/16	IM14I35.D
Level 4	IC 410-233459/15	IM14I34.D
Level 5	IC 410-233459/14	IM14I33.D
Level 6	ICIS 410-233459/13	IM14I32.D
Level 7	IC 410-233459/12	IM14I31.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	12174 775367	38342 1940345	77703	151440	391871	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	17202 767362	39601 1774005	74938	152777	383740	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	15454 835832	42756 1934005	82830	161037	421383	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	15233 798845	40566 1781874	84313	170292	403813	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	14324 679556	34546 1724314	65359	127889	330801	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	9614 505348	25889 1257515	48387	97172	249286	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	26658 1266108	62146 3029501	123616	244787	613064	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	22113 1244670	60650 3044874	122112	247207	626391	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	6784 334626	17004 823941	33746	65699	168002	0.200 10.00	0.500 25.0	1.000	2.00	5.00
Freon 123a	FB	Ave	14515 679412	35242 1698938	72278	136009	342871	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd 10	Ave	62205 3017661	139607 6990883	289265	590057	1475679	10.0 500	25.0 1250	50.0	100	250
1,1-Dichloroethene	FB	Ave	10662 510336	26177 1281845	55619	104409	265552	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBAd 10	Ave	20231	39948	82464	148892	395553	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 Env Job No.: 410-88520-1 Analy Batch No.: 233459

SDG No.:

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

Calibration Start Date: 03/15/2022 01:15 Calibration End Date: 03/15/2022 03:22 Calibration ID: 36162

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
			728270	1617920				100	250			
Freon 113	FB	Ave	10208 545338	26572 1384320	59314	112525	287670	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl iodide	FB	Ave	22696 1043578	51940 2633227	113489	217917	533265	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon disulfide	FB	Ave	23883 1165433	56905 2984590	119785	237527	596804	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd 10	Lin	7489 186384	9060 491288	22089	39331	105367	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	15242 735174	37686 1798703	76818	149475	370309	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	12056 531797	26934 1312595	56397	110744	270557	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd 10	Ave	12109 618605	31765 1325434	49640	120168	299177	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd 10	Ave	4395 244970	11960 555811	23490	44225	123024	0.500 25.0	1.25 62.5	2.50	5.00	12.5
Methyl tertiary butyl ether	FB	Ave	30498 1341869	66197 3323390	138822	273994	678446	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	12680 574992	30157 1439651	62513	117480	291715	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	12983 723629	34826 1806929	76935	151532	376145	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	20843 993908	51123 2471272	105889	208183	506938	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	32182 1607499	76892 3927371	163646	320905	806621	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	17211 818283	40379 2089215	84943	163958	419888	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	33885 1597708	80698 3947072	167888	321001	805906	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone	TBAd 10	Ave	27415	66323	145525	270158	710896	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 Env Job No.: 410-88520-1 Analy Batch No.: 233459

SDG No.:

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

Calibration Start Date: 03/15/2022 01:15 Calibration End Date: 03/15/2022 03:22 Calibration ID: 36162

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
			1387836	3216854				100	250			
cis-1,2-Dichloroethene	FB	Ave	15432 644276	34237 1603024	71636	134101	325971	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	18690 941433	46465 2369416	97449	191828	476899	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Propionitrile	TBAd 10	Ave	13732 727147	32816 1757061	75781	136671	352145	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd 10	Ave	29038 1405130	65801 3399707	149998	276412	707937	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	6487 301613	15669 755832	33730	61031	153997	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd 10	Ave	4086 195966	9313 454844	19268	38887	101424	1.00 50.0	2.50 125	5.00	10.0	25.0
Chloroform	FB	Ave	23341 1069836	54271 2675658	114605	217483	542529	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	22284 1037449	52545 2614158	109534	215247	529783	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	16256 901090	41104 2284509	97272	188548	460490	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	17366 809214	39107 2073084	82831	165673	412120	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	19333 976207	48008 2520671	102183	197475	497787	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	TBAd 10	Ave	11490 496869	22406 1139036	50547	91271	259655	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	49374 2308112	116345 5847262	241399	473085	1173966	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	14632 636810	32183 1610330	69891	125787	317860	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	31737 1493443	74320 3728390	155828	301152	748734	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	16268	38570	77970	153938	392950	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 Env Job No.: 410-88520-1 Analy Batch No.: 233459

SDG No.:

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

Calibration Start Date: 03/15/2022 01:15 Calibration End Date: 03/15/2022 03:22 Calibration ID: 36162

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
			748067	1876111				10.0	25.0			
n-Butanol	TBAd 10	Ave	10801 820288	31832 1695501	61521	135748	401095	17.5 875	43.8 2188	87.5	175	438
Trichloroethene	FB	Ave	14385 661523	32974 1688115	70571	134124	334265	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	19770 1082507	50397 2751245	116232	227524	555609	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	10875 569329	27296 1450382	57297	115228	290817	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl methacrylate	TBAd 10	Ave	4900 268217	13137 682538	27005	53110	137875	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBAd 10	Ave	+++++ 110430	4908 222411	9072	20566	52415	+++++ 500	25.0 1250	50.0	100	250
Dibromomethane	FB	Ave	6467 307015	16746 763014	31772	59795	155310	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromodichloromethane	FB	Ave	14496 758285	36200 1938816	76212	149556	374926	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBAd 10	Ave	7975 427911	19475 1096762	41018	80273	213622	1.00 50.0	2.50 125	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	17322 902444	41097 2303922	88594	174580	450984	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone	TBAd 10	Ave	66567 3745376	175115 9464495	369128	710069	1890983	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd 5	Ave	32803 1558024	78723 3999921	161808	310732	784204	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd 5	Ave	12263 754768	33885 1955314	70803	142453	372452	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd 5	Ave	9480	26333	54614	108772	291895	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 Env Job No.: 410-88520-1 Analy Batch No.: 233459

SDG No.:

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

Calibration Start Date: 03/15/2022 01:15 Calibration End Date: 03/15/2022 03:22 Calibration ID: 36162

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
			588856	1522306				10.0	25.0			
1,1,2-Trichloroethane	CBZd 5	Ave	8749 422109	22015 1072964	46767	85157	211303	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd 5	Ave	18053 905603	44469 2303151	94610	182846	455530	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd 5	Ave	13872 694300	34333 1758682	71340	139306	354541	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBAd 10	Ave	38878 2672997	114797 6847069	237649	483982	1298814	2.00 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd 5	Ave	11317 605912	28417 1600637	57407	115590	300253	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane	CBZd 5	Ave	7460 430495	20990 1101758	43335	83682	220656	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd 5	Ave	21550 931799	47652 2384893	95733	184524	467596	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chlorobenzene	CBZd 5	Ave	36676 1839209	96628 4758275	194153	366783	933989	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd 5	Ave	12294 707043	34314 1865047	70523	138560	353025	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd 5	Ave	62844 3113773	156010 8052347	321428	612096	1558260	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd 5	Ave	50551 2560376	126661 6704068	262497	503919	1282219	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd 5	Ave	24789	63612	128931	247504	625138	0.200	0.500	1.00	2.00	5.00

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 233459

SDG No.:

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

Calibration Start Date: 03/15/2022 01:15 Calibration End Date: 03/15/2022 03:22 Calibration ID: 36162

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
			1252820	3304917				10.0	25.0			
Styrene	CBZd 5	Ave	37528 2015851	94656 5349467	197567	384280	990642	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd 5	Ave	6223 398616	16961 1047560	34732	70310	189692	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd 5	Ave	64175 3323539	164910 8488413	335336	652274	1646507	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	10440 545272	27127 1413094	54800	103362	272342	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd 4	Ave	17078 843377	43168 2232497	87022	166897	429256	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	TBAd 10	Ave	18122 1514033	58243 4082743	124086	256925	708706	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	2972 157407	8831 396072	16398	30887	80120	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd 4	Ave	73431 3777132	185867 9513016	379299	735673	1902259	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd 4	Ave	15217 813415	42524 2107004	84829	165738	412847	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd 4	Ave	52611 2804438	140301 7260173	277155	544217	1393730	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd 4	Ave	17108 836084	44030 2149136	80828	165055	415311	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd 4	Ave	13616	32989	65689	133195	335259	0.200	0.500	1.00	2.00	5.00

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 233459

SDG No.:

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

Calibration Start Date: 03/15/2022 01:15 Calibration End Date: 03/15/2022 03:22 Calibration ID: 36162

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
			662432	1710155				10.0	25.0			
Pentachloroethane	DCBd 4	Ave	9652 587717	25590 1569725	51676	108889	288333	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd 4	Ave	51136 2860782	139673 7424779	282251	553867	1409233	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd 4	Ave	67649 3584310	175873 9099816	358710	702149	1785777	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichlorobenzene	DCBd 4	Ave	31802 1681322	85825 4432211	168169	325278	824593	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd 4	Ave	60230 3239138	159043 8454498	319108	626442	1589520	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd 4	Ave	35095 1684578	87803 4400002	167339	334191	833641	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd 4	Ave	25725 1276413	67484 3375478	128963	246753	631723	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd 4	Ave	3627 243381	9700 652676	20470	41765	119615	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd 4	Ave	24766 1497756	67261 3995744	139920	279757	716377	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd 4	Ave	28920 1547734	77120 4055635	152809	296139	757252	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1132 95086	4305 252108	8509	17417	47557	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd 4	Ave	22882	63089	124815	250743	624432	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 Env Job No.: 410-88520-1 Analy Batch No.: 233459

SDG No.:

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

Calibration Start Date: 03/15/2022 01:15 Calibration End Date: 03/15/2022 03:22 Calibration ID: 36162

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
			1290067	3263029				10.0	25.0			
1,2,4-Trichlorobenzene	DCBd 4	Ave	19278 1105018	49430 2781903	106675	208572	547927	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd 4	Ave	11228 466003	22776 1188278	47822	91714	223993	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd 4	Ave	33257 1856952	89149 4606935	179802	362073	930872	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd 4	Ave	18681 930716	45526 2295134	93928	180095	461720	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	547531 545283	543314 537217	546963	545251	540907	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	100556 96026	98965 95694	96046	95723	95088	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd 5	Ave	2051196 2067816	2034623 2045611	2035925	2046750	2053919	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	798883 798597	788876 795598	792251	793453	791795	10.0 10.0	10.0 10.0	10.0	10.0	10.0

Curve Type Legend
Ave = Average ISTD
Lin = Linear ISTD

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 233459

SDG No.:

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

Calibration Start Date: 03/15/2022 01:15 Calibration End Date: 03/15/2022 03:22 Calibration ID: 36162

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-233459/18	IM14I37.D
Level 2	IC 410-233459/17	IM14I36.D
Level 3	IC 410-233459/16	IM14I35.D
Level 4	IC 410-233459/15	IM14I34.D
Level 5	IC 410-233459/14	IM14I33.D
Level 6	ICIS 410-233459/13	IM14I32.D
Level 7	IC 410-233459/12	IM14I31.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	-19.3 5.1	1.9	3.6	1.2	4.6	3.0	50 30	30	30	30	30	30
Chloromethane	10.6 -6.8	2.1	-3.1	-1.0	-0.6	-1.2	50 30	30	30	30	30	30
Vinyl chloride	-5.9 -3.8	4.3	1.4	-1.2	3.3	1.9	50 30	30	30	30	30	30
1,3-Butadiene	-5.2 -9.4	1.2	5.6	6.9	1.2	-0.4	50 30	30	30	30	30	30
Bromomethane	5.3 3.5	1.8	-3.4	-5.2	-2.1	0.1	50 30	30	30	30	30	30
Chloroethane	-3.8 2.8	3.9	-2.6	-2.0	0.4	1.3	50 30	30	30	30	30	30
Dichlorofluoromethane	6.1 -1.5	-0.9	-1.1	-1.8	-1.8	0.9	50 30	30	30	30	30	30
Trichlorofluoromethane	-9.4 1.9	-0.4	0.6	2.0	3.3	2.1	50 30	30	30	30	30	30
Ethyl ether	0.6 -0.2	1.1	0.6	-1.8	0.3	-0.6	50 30	30	30	30	30	30
Freon 123a	3.5 -1.0	0.7	3.6	-2.3	-1.6	-3.0	50 30	30	30	30	30	30
Acrolein	-0.4 -7.4	3.4	0.0	4.3	-1.9	2.1	50 30	30	30	30	30	30
1,1-Dichloroethene	0.5 -1.3	-1.1	5.5	-0.8	0.8	-3.6	50 30	30	30	30	30	30
Acetone	19.8 -20.7	9.5	5.5	-2.6	-2.7	-8.8	50 30	30	30	30	30	30
Freon 113	-8.3 1.6	-4.3	7.1	1.9	4.0	-1.9	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 Env Job No.: 410-88520-1 Analy Batch No.: 233459

SDG No.:

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

Calibration Start Date: 03/15/2022 01:15 Calibration End Date: 03/15/2022 03:22 Calibration ID: 36162

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	4.4 -1.1	-4.2	5.0	1.0	-1.2	-3.8	50 30	30	30	30	30	30
Carbon disulfide	0.4 2.5	-4.1	1.3	0.7	1.0	-1.8	50 30	30	30	30	30	30
Methyl acetate	17.4 0.3	-23.3	4.8	0.9	5.8	-3.6	50 30	30	30	30	30	30
Allyl chloride	1.4 -2.2	0.5	2.8	0.3	-0.8	-2.0	50 30	30	30	30	30	30
Methylene Chloride	8.7 -3.3	-2.6	2.3	0.7	-1.8	-3.9	50 30	30	30	30	30	30
t-Butyl alcohol	-2.9 -12.0	18.0	-14.0	6.4	-0.4	4.9	50 30	30	30	30	30	30
Acrylonitrile	-11.5 -7.4	11.5	2.2	-1.7	2.8	4.2	50 30	30	30	30	30	30
Methyl tertiary butyl ether	10.1 -2.0	-4.2	0.8	-0.3	-1.4	-3.0	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	5.4 -2.2	0.5	4.5	-1.6	-2.4	-4.2	50 30	30	30	30	30	30
n-Hexane	-11.0 1.2	-4.3	6.1	4.7	3.8	-0.6	50 30	30	30	30	30	30
1,1-Dichloroethane	1.2 -1.9	-0.5	3.4	1.9	-0.9	-3.3	50 30	30	30	30	30	30
di-Isopropyl ether	0.1 -0.2	-4.1	2.4	0.6	1.0	0.2	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	2.6 1.8	-3.5	1.9	-1.4	0.8	-2.2	50 30	30	30	30	30	30
Ethyl t-butyl ether	3.5 -1.5	-1.1	3.2	-1.1	-0.8	-2.2	50 30	30	30	30	30	30
2-Butanone	-6.3 -9.1	4.9	7.4	1.9	0.9	0.2	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	12.3 -4.7	-0.1	4.8	-1.7	-4.5	-6.1	50 30	30	30	30	30	30
2,2-Dichloropropane	-2.1 1.4	-2.5	2.6	1.3	0.6	-1.2	50 30	30	30	30	30	30
Propionitrile	-8.4 -3.0	1.4	9.2	0.7	-2.5	2.5	50 30	30	30	30	30	30
Methacrylonitrile	-3.0 -6.1	1.7	8.2	1.9	-1.9	-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 Env Job No.: 410-88520-1 Analy Batch No.: 233459

SDG No.:

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

Calibration Start Date: 03/15/2022 01:15 Calibration End Date: 03/15/2022 03:22 Calibration ID: 36162

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	2.9 -2.0	-0.3	7.6	-2.4	-1.6	-4.1	50 30	30	30	30	30	30
Tetrahydrofuran	-1.3 -9.1	4.2	0.6	3.8	1.7	0.1	50 30	30	30	30	30	30
Chloroform	5.3 -1.4	-1.9	4.0	-1.1	-1.5	-3.3	50 30	30	30	30	30	30
1,1,1-Trichloroethane	3.6 -0.7	-2.1	2.4	0.9	-0.8	-3.4	50 30	30	30	30	30	30
Cyclohexane	-10.1 3.2	-8.9	8.2	5.1	2.6	-0.2	50 30	30	30	30	30	30
1,1-Dichloropropene	4.7 2.1	-5.5	0.4	0.6	0.0	-2.3	50 30	30	30	30	30	30
Carbon tetrachloride	-2.8 3.5	-3.2	3.3	0.1	0.8	-1.7	50 30	30	30	30	30	30
Isobutyl alcohol	9.3 -10.3	-1.3	3.9	-4.1	2.6	-0.1	50 30	30	30	30	30	30
Benzene	3.6 0.3	-2.1	1.9	0.1	-0.8	-3.0	50 30	30	30	30	30	30
1,2-Dichloroethane	10.2 -1.0	-2.9	5.8	-4.5	-3.6	-4.0	50 30	30	30	30	30	30
t-Amyl methyl ether	3.9 -0.3	-2.4	2.6	-0.6	-1.3	-2.0	50 30	30	30	30	30	30
n-Heptane	4.4 -1.6	-0.8	0.6	-0.4	1.6	-3.8	50 30	30	30	30	30	30
n-Butanol	-25.8 -3.6	1.3	-8.6	3.0	14.5	19.2	50 30	30	30	30	30	30
Trichloroethene	5.1 0.7	-3.4	3.7	-1.2	-1.7	-3.2	50 30	30	30	30	30	30
Methylcyclohexane	-9.4 3.0	-7.5	7.1	5.1	2.5	-0.7	50 30	30	30	30	30	30
1,2-Dichloropropane	-4.8 3.8	-4.2	0.9	1.7	2.6	-0.1	50 30	30	30	30	30	30
Methyl methacrylate	-13.7 -0.5	7.2	2.8	3.4	0.9	-0.1	50 30	30	30	30	30	30
1,4-Dioxane	+++++ -14.1	6.1	-8.5	6.0	1.6	8.9	 30	50	30	30	30	30
Dibromomethane	2.3 -1.4	6.2	1.1	-4.6	-1.0	-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 Env Job No.: 410-88520-1 Analy Batch No.: 233459

SDG No.:

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

Calibration Start Date: 03/15/2022 01:15 Calibration End Date: 03/15/2022 03:22 Calibration ID: 36162

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	-3.9 5.1	-3.7	1.7	0.0	0.1	0.8	50 30	30	30	30	30	30
2-Nitropropane	-9.5 2.9	2.3	0.5	0.6	0.6	2.6	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-2.4 6.0	-7.2	0.4	-0.9	2.3	1.8	50 30	30	30	30	30	30
4-Methyl-2-pentanone	-14.0 1.2	4.8	3.0	1.3	1.4	2.3	50 30	30	30	30	30	30
Toluene	3.6 -0.1	-0.3	2.4	-1.3	-1.3	-2.9	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-13.8 8.7	-4.5	-0.2	0.7	4.4	4.7	50 30	30	30	30	30	30
Ethyl methacrylate	-14.1 9.1	-4.3	-0.8	-0.8	5.5	5.4	50 30	30	30	30	30	30
1,1,2-Trichloroethane	0.8 -2.2	1.7	8.0	-1.3	-3.0	-4.0	50 30	30	30	30	30	30
Tetrachloroethene	-0.9 0.0	-2.1	4.1	1.0	-0.3	-1.9	50 30	30	30	30	30	30
1,3-Dichloropropane	-0.6 -0.3	-1.4	2.5	0.4	1.3	-1.8	50 30	30	30	30	30	30
2-Hexanone	-25.2 9.0	2.2	-1.2	2.8	3.7	8.7	50 30	30	30	30	30	30
Dibromochloromethane	-3.9 7.5	-3.2	-2.3	-1.3	1.6	1.6	50 30	30	30	30	30	30
1,2-Dibromoethane	-11.5 3.4	-0.1	3.1	-0.1	4.4	0.8	50 30	30	30	30	30	30
1-Chlorohexane	12.3 -1.7	-0.4	0.0	-3.3	-2.9	-4.1	50 30	30	30	30	30	30
Chlorobenzene	-2.2 0.4	3.4	3.8	-1.6	-0.7	-3.2	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-11.2 6.6	-0.6	2.1	0.7	1.6	0.8	50 30	30	30	30	30	30
Ethylbenzene	0.3 1.6	-0.2	2.8	-1.8	-0.9	-1.9	50 30	30	30	30	30	30
m&p-Xylene	-1.5 3.3	-1.1	2.5	-1.3	-0.4	-1.5	50 30	30	30	30	30	30
o-Xylene	-1.9 3.5	1.0	2.3	-1.4	-1.4	-2.1	50 30	30	30	30	30	30

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-88520-1 Analy Batch No.: 233459

SDG No.:

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

Calibration Start Date: 03/15/2022 01:15 Calibration End Date: 03/15/2022 03:22 Calibration ID: 36162

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Styrene	-4.6 7.6	-3.5	0.7	-1.7	0.4	1.2	50 30	30	30	30	30	30
Bromoform	-14.2 14.2	-6.2	-4.0	-2.5	4.2	8.5	50 30	30	30	30	30	30
Isopropylbenzene	-2.7 1.8	0.3	2.0	-0.5	-0.5	-0.5	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-2.7 2.8	1.7	2.3	-3.6	1.3	-1.8	50 30	30	30	30	30	30
Bromobenzene	0.1 2.1	1.8	2.2	-2.1	0.4	-4.5	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-35.1 21.0	-3.4	-4.0	1.6	5.4	14.6	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-6.4 -2.7	11.9	3.4	-2.7	0.7	-4.3	50 30	30	30	30	30	30
N-Propylbenzene	-1.3 -0.2	0.5	2.1	-1.1	2.0	-2.0	50 30	30	30	30	30	30
2-Chlorotoluene	-7.0 0.5	4.6	3.8	1.4	0.7	-4.0	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-4.5 2.9	2.5	0.8	-1.1	1.0	-1.6	50 30	30	30	30	30	30
4-Chlorotoluene	2.3 0.3	6.0	-3.2	-1.2	-0.9	-3.4	50 30	30	30	30	30	30
tert-Butylbenzene	2.6 0.6	0.0	-0.9	0.4	0.8	-3.6	50 30	30	30	30	30	30
Pentachloroethane	-11.4 12.4	-5.5	-5.0	0.0	5.5	4.1	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-7.9 4.3	1.2	1.8	-0.2	1.2	-0.5	50 30	30	30	30	30	30
sec-Butylbenzene	-3.7 1.0	0.7	2.2	0.0	1.4	-1.5	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-4.3 4.1	4.0	1.4	-2.0	-1.0	-2.2	50 30	30	30	30	30	30
p-Isopropyltoluene	-4.8 4.3	1.2	1.0	-0.9	0.3	-1.1	50 30	30	30	30	30	30
1,4-Dichlorobenzene	3.4 1.2	4.1	-1.2	-1.4	-2.0	-4.1	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	0.3 2.7	5.8	0.7	-3.8	-1.8	-3.9	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 Env Job No.: 410-88520-1 Analy Batch No.: 233459

SDG No.:

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

Calibration Start Date: 03/15/2022 01:15 Calibration End Date: 03/15/2022 03:22 Calibration ID: 36162

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Benzyl chloride	-16.4 17.4	-10.1	-5.5	-3.7	10.0	8.3	50 30	30	30	30	30	30
n-Butylbenzene	-11.8 11.1	-3.6	-0.2	-0.3	1.8	3.0	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-4.5 4.5	2.5	1.1	-2.1	-0.2	-1.3	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-34.0 14.6	0.9	-0.7	1.6	10.6	7.0	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-7.8 2.6	2.3	0.8	1.1	0.4	0.4	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-7.8 3.9	-4.8	2.2	-0.1	4.6	2.1	50 30	30	30	30	30	30
Hexachlorobutadiene	18.4 -2.2	-3.3	1.0	-3.2	-5.7	-5.1	50 30	30	30	30	30	30
Naphthalene	-7.0 0.5	0.3	0.7	1.3	3.8	0.3	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	2.1 -2.2	0.1	2.8	-1.6	0.6	-1.8	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	0.0 0.2	-0.5	0.5	0.4	-0.5	-0.2	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	3.1 0.2	1.7	-0.9	-1.0	-1.8	-1.3	50 30	30	30	30	30	30
Toluene-d8 (Surr)	0.4 -1.0	-0.2	-0.1	0.8	0.2	-0.1	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	0.8 -0.7	-0.2	0.2	0.7	-0.4	-0.5	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I31.D
Lims ID: IC std7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 15-Mar-2022 01:15:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052441-012
Misc. Info.: IC STD7
Operator ID: mec29284 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 16-Mar-2022 10:11:24 Calib Date: 15-Mar-2022 03:22:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1676

First Level Reviewer: kephartk Date: 16-Mar-2022 08:18:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.953	1.953	0.000	99	1940345	25.0	26.3	
4 Chloromethane	50	2.154	2.142	0.012	99	1774005	25.0	23.3	
5 Vinyl chloride	62	2.276	2.264	0.012	98	1934005	25.0	24.0	
6 Butadiene	39	2.276	2.264	0.012	92	1781874	25.0	22.7	
7 Bromomethane	94	2.605	2.599	0.006	92	1724314	25.0	25.9	
8 Chloroethane	64	2.684	2.678	0.006	99	1257515	25.0	25.7	
9 Dichlorofluoromethane	67	2.922	2.916	0.006	98	3029501	25.0	24.6	
10 Trichlorofluoromethane	101	2.934	2.928	0.006	97	3044874	25.0	25.5	
11 Ethyl ether	59	3.245	3.233	0.012	90	823941	25.0	25.0	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.324	3.312	0.012	88	1698938	25.0	24.7	
13 Acrolein	56	3.410	3.404	0.006	99	6990883	1250.1	1157.2	
14 1,1-Dichloroethene	96	3.550	3.544	0.006	98	1281845	25.0	24.7	
15 Acetone	43	3.580	3.580	0.000	98	1617920	250.0	198.2	
16 112TCTFE	101	3.586	3.580	0.006	89	1384320	25.0	25.4	
17 Iodomethane	142	3.745	3.739	0.006	99	2633227	25.0	24.7	
18 Ethyl bromide	108	3.775	3.769	0.006	99	1232809	25.0	24.9	
19 Carbon disulfide	76	3.855	3.849	0.006	100	2984590	25.0	25.6	
21 Methyl acetate	43	4.007	4.007	0.000	97	491288	25.0	25.1	M
22 3-Chloro-1-propene	41	4.025	4.025	0.000	88	1798703	25.0	24.4	
23 Methylene Chloride	84	4.220	4.214	0.006	90	1312595	25.0	24.2	
* 24 t-Butyl alcohol-d10 (IS)	65	4.227	4.263	-0.036	95	150473	50.0	50.0	M
25 2-Methyl-2-propanol	59	4.348	4.342	0.006	99	1325434	500.0	439.8	
26 Acrylonitrile	53	4.556	4.562	-0.006	99	555811	62.5	57.9	
27 Methyl tert-butyl ether	73	4.629	4.617	0.012	95	3323390	25.0	24.5	
28 trans-1,2-Dichloroethene	96	4.641	4.629	0.012	98	1439651	25.0	24.4	
29 Hexane	57	5.062	5.056	0.006	93	1806929	25.0	25.3	
31 1,1-Dichloroethane	63	5.293	5.287	0.006	96	2471272	25.0	24.5	
32 Isopropyl ether	45	5.354	5.354	0.000	92	3927371	25.0	25.0	
33 2-Chloro-1,3-butadiene	53	5.409	5.403	0.006	92	2089215	25.0	25.4	
34 Tert-butyl ethyl ether	59	5.891	5.879	0.012	96	3947072	25.0	24.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.086	6.080	0.006	99	3216854	250.0	227.4	
37 cis-1,2-Dichloroethene	96	6.129	6.123	0.006	82	1603024	25.0	23.8	
38 2,2-Dichloropropane	77	6.135	6.135	0.000	87	2369416	25.0	25.3	
S 35 1,2-Dichloroethene, Total	100				0			48.3	
40 Propionitrile	54	6.171	6.177	-0.006	99	1757061	500.0	485.0	
42 Methacrylonitrile	67	6.391	6.379	0.012	91	3399707	250.0	234.8	
43 Chlorobromomethane	128	6.458	6.446	0.012	87	755832	25.0	24.5	
44 Tetrahydrofuran	71	6.476	6.458	0.018	77	454844	125.0	113.7	
45 Chloroform	83	6.604	6.604	0.000	94	2675658	25.0	24.6	
$ 46 Dibromofluoromethane (Surr)	113	6.824	6.812	0.012	93	537217	10.0	10.0	
47 1,1,1-Trichloroethane	97	6.830	6.830	0.000	98	2614158	25.0	24.8	
48 Cyclohexane	56	6.927	6.927	0.000	90	2284509	25.0	25.8	
50 Carbon tetrachloride	117	7.043	7.037	0.006	96	2520671	25.0	25.9	
51 1,1-Dichloropropene	75	7.043	7.037	0.006	93	2073084	25.0	25.5	
52 Isobutyl alcohol	41	7.189	7.189	0.000	92	1139036	1250.0	1120.9	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.269	7.257	0.012	78	95694	10.0	10.0	
54 Benzene	78	7.305	7.299	0.006	96	5847262	25.0	25.1	
56 1,2-Dichloroethane	62	7.372	7.366	0.006	97	1610330	25.0	24.8	
57 Tert-amyl methyl ether	73	7.494	7.488	0.006	98	3728390	25.0	24.9	
* 58 Fluorobenzene (IS)	96	7.701	7.701	0.000	99	1979820	10.0	10.0	
59 n-Heptane	43	7.714	7.708	0.006	90	1876111	25.0	24.6	
60 n-Butanol	56	8.067	8.073	-0.006	89	1695501	2187.5	2109.4	
61 Trichloroethene	95	8.183	8.177	0.006	95	1688115	25.0	25.2	
62 Methylcyclohexane	83	8.494	8.482	0.012	90	2751245	25.0	25.7	
63 1,2-Dichloropropane	63	8.512	8.500	0.012	85	1450382	25.0	25.9	
64 Methyl methacrylate	69	8.592	8.592	0.000	88	682538	25.0	24.9	
65 1,4-Dioxane	88	8.604	8.604	0.000	33	222411	1250.0	1073.8	
66 Dibromomethane	93	8.622	8.610	0.012	90	763014	25.0	24.7	
68 Dichlorobromomethane	83	8.854	8.854	0.000	99	1938816	25.0	26.3	
69 2-Nitropropane	41	9.122	9.116	0.006	100	1096762	125.0	128.7	
72 1-Bromo-2-chloroethane	63	9.250	9.244	0.006	99	1377982	25.0	26.0	
73 cis-1,3-Dichloropropene	75	9.396	9.396	0.000	95	2303922	25.0	26.5	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	97	9464495	250.0	252.9	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2045611	10.0	9.90	
76 Toluene	92	9.780	9.780	0.000	98	3999921	25.0	25.0	
78 trans-1,3-Dichloropropene	75	10.036	10.036	0.000	93	1955314	25.0	27.2	
S 77 1,3-Dichloropropene, Total	100				0			53.7	
79 Ethyl methacrylate	69	10.097	10.097	0.000	87	1522306	25.0	27.3	
80 1,1,2-Trichloroethane	97	10.244	10.244	0.000	91	1072964	25.0	24.4	
81 Tetrachloroethene	166	10.335	10.329	0.006	98	2303151	25.0	25.0	
82 1,3-Dichloropropane	76	10.402	10.402	0.000	90	1758682	25.0	24.9	
83 2-Hexanone	43	10.451	10.451	0.000	97	6847069	250.0	272.5	
85 Chlorodibromomethane	129	10.616	10.616	0.000	89	1600637	25.0	26.9	
86 Ethylene Dibromide	107	10.731	10.731	0.000	99	1101758	25.0	25.9	
* 87 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	84	1697885	10.0	10.0	
88 1-Chlorohexane	91	11.164	11.164	0.000	95	2384893	25.0	24.6	
90 Chlorobenzene	112	11.183	11.183	0.000	96	4758275	25.0	25.1	
S 89 Xylenes, Total	106				0			77.5	
91 1,1,1,2-Tetrachloroethane	131	11.268	11.268	0.000	95	1865047	25.0	26.6	
92 Ethylbenzene	91	11.268	11.268	0.000	98	8052347	25.0	25.4	
93 m-Xylene & p-Xylene	106	11.384	11.384	0.000	99	6704068	50.0	51.7	
94 o-Xylene	106	11.713	11.713	0.000	96	3304917	25.0	25.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
95 Styrene	104	11.725	11.731	-0.006	93	5349467	25.0	26.9	
96 Bromoform	173	11.884	11.890	-0.006	98	1047560	25.0	28.6	
97 Isopropylbenzene	105	12.012	12.012	0.000	96	8488413	25.0	25.5	
$ 100 4-Bromofluorobenzene (Surr)	95	12.158	12.158	0.000	97	795598	10.0	9.93	
101 1,1,2,2-Tetrachloroethane	83	12.255	12.256	-0.001	95	1413094	25.0	25.7	
102 Bromobenzene	156	12.274	12.274	0.000	97	2232497	25.0	25.5	
103 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	92	4082743	250.0	302.4	
104 1,2,3-Trichloropropane	110	12.304	12.298	0.006	84	396072	25.0	24.3	
105 N-Propylbenzene	91	12.341	12.341	0.000	98	9513016	25.0	24.9	
106 2-Chlorotoluene	126	12.420	12.414	0.006	98	2107004	25.0	25.1	
107 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	94	7260173	25.0	25.7	
108 4-Chlorotoluene	126	12.512	12.512	0.000	97	2149136	25.0	25.1	
109 tert-Butylbenzene	134	12.719	12.719	0.000	93	1710155	25.0	25.1	
110 Pentachloroethane	167	12.749	12.749	0.000	93	1569725	25.0	28.1	
111 1,2,4-Trimethylbenzene	105	12.761	12.762	-0.001	97	7424779	25.0	26.1	
112 sec-Butylbenzene	105	12.883	12.877	0.006	94	9099816	25.0	25.3	
113 1,3-Dichlorobenzene	146	12.981	12.981	0.000	99	4432211	25.0	26.0	
114 4-Isopropyltoluene	119	12.987	12.987	0.000	96	8454498	25.0	26.1	
* 115 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	92	1039276	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.054	13.054	0.000	95	4400002	25.0	25.3	
117 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	98	3375478	25.0	25.7	
118 Benzyl chloride	126	13.127	13.133	-0.006	98	652676	25.0	29.3	
119 n-Butylbenzene	92	13.280	13.280	0.000	97	3995744	25.0	27.8	
120 1,2-Dichlorobenzene	146	13.310	13.316	-0.006	99	4055635	25.0	26.1	
122 1,2-Dibromo-3-Chloropropane	155	13.853	13.859	-0.006	90	252108	25.0	28.7	
123 1,3,5-Trichlorobenzene	180	13.981	13.981	0.000	98	3263029	25.0	25.7	
124 1,2,4-Trichlorobenzene	180	14.401	14.408	-0.007	94	2781903	25.0	26.0	
125 Hexachlorobutadiene	225	14.487	14.487	0.000	95	1188278	25.0	24.5	
126 Naphthalene	128	14.584	14.584	0.000	97	4606935	25.0	25.1	
127 1,2,3-Trichlorobenzene	180	14.725	14.725	-0.001	95	2295134	25.0	24.5	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
137 2-Methylnaphthalene	142		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	
134 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_00038	Amount Added: 25.00	Units: uL	
MSV_LL_#2_826_00042	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00072	Amount Added: 25.00	Units: uL	
MSV_LLcentISS_00004	Amount Added: 5.00	Units: uL	Run Reagent

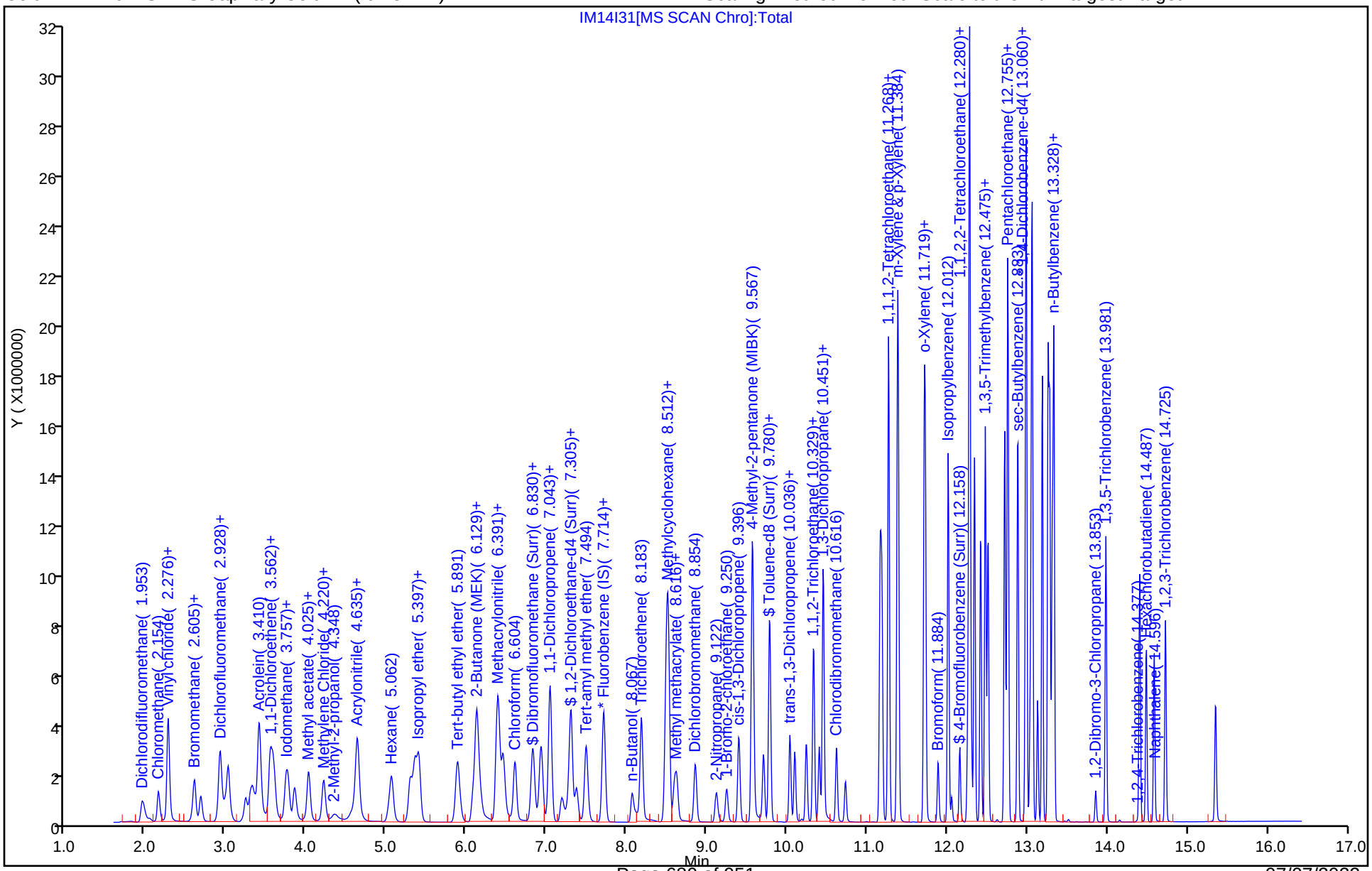
Report Date: 16-Mar-2022 10:11:25 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I31.D

Injection Date:	15-Mar-2022 01:15:30	Instrument ID:	19930	Operator ID:	mec29284
Lims ID:	IC std7			Worklist Smp#:	12
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

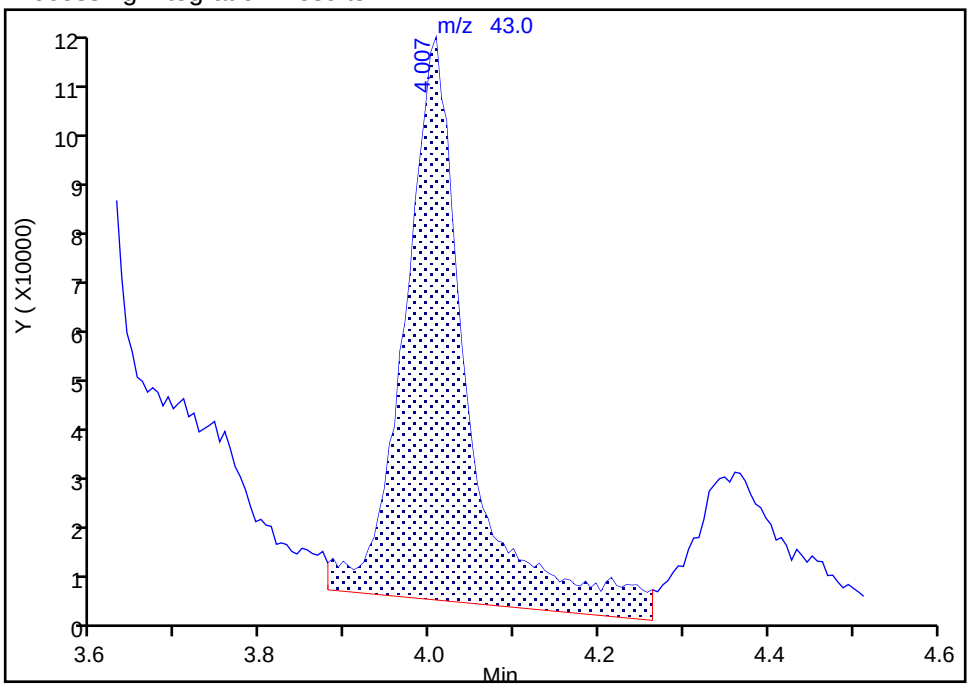
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I31.D
Injection Date: 15-Mar-2022 01:15:30 Instrument ID: 19930
Lims ID: IC std7
Client ID:
Operator ID: mec29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

21 Methyl acetate, CAS: 79-20-9

Signal: 1

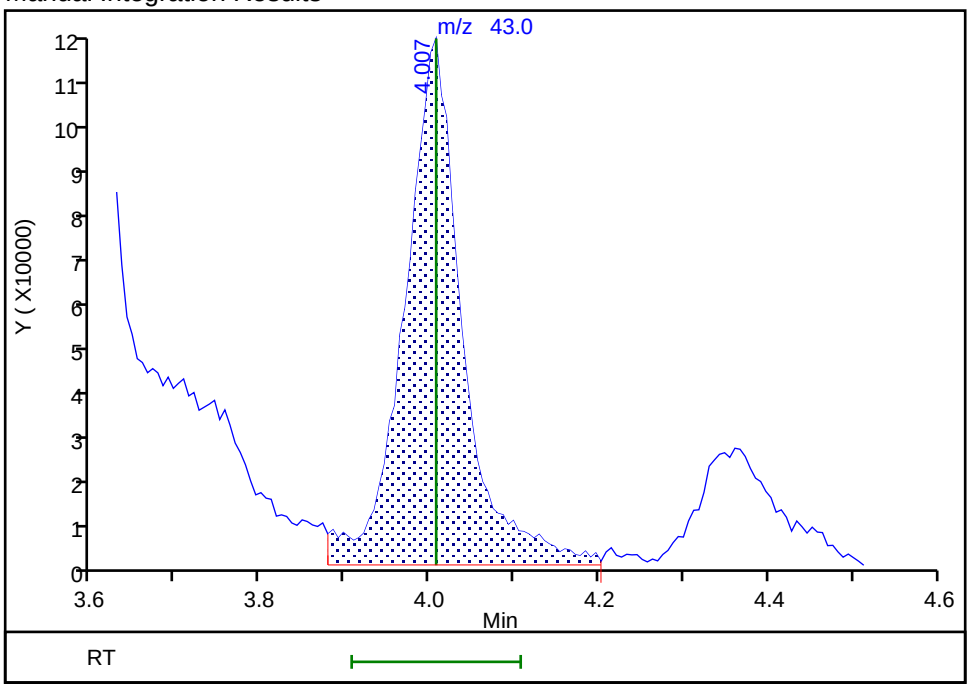
Processing Integration Results

RT: 4.01
Area: 537135
Amount: 22.911080
Amount Units: ug/l



Manual Integration Results

RT: 4.01
Area: 491288
Amount: 25.084836
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:17:09
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

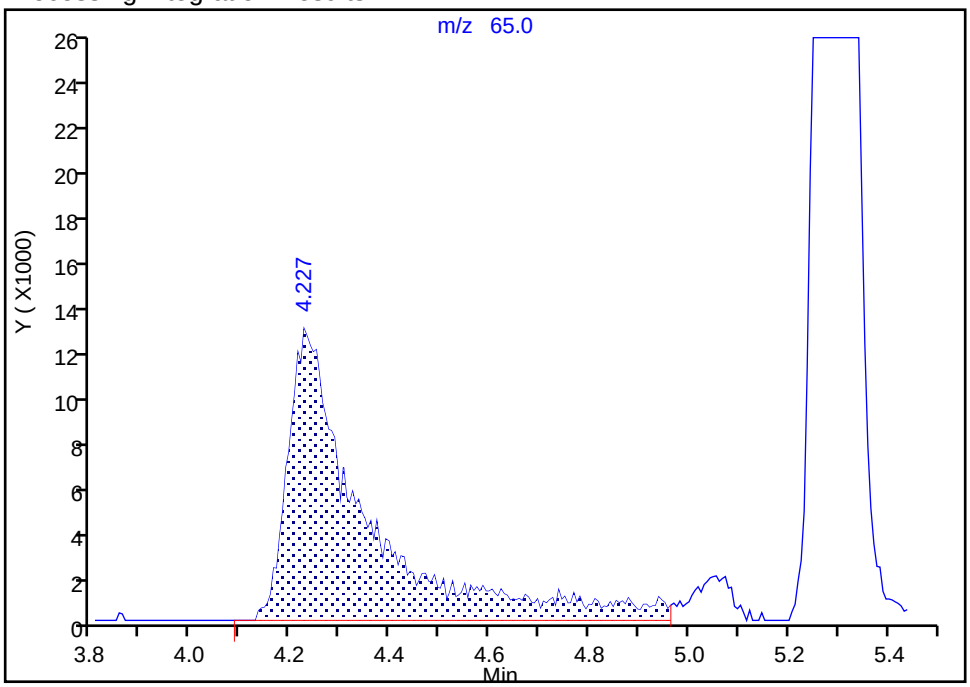
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I31.D
Injection Date: 15-Mar-2022 01:15:30 Instrument ID: 19930
Lims ID: IC std7
Client ID:
Operator ID: mec29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 24 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

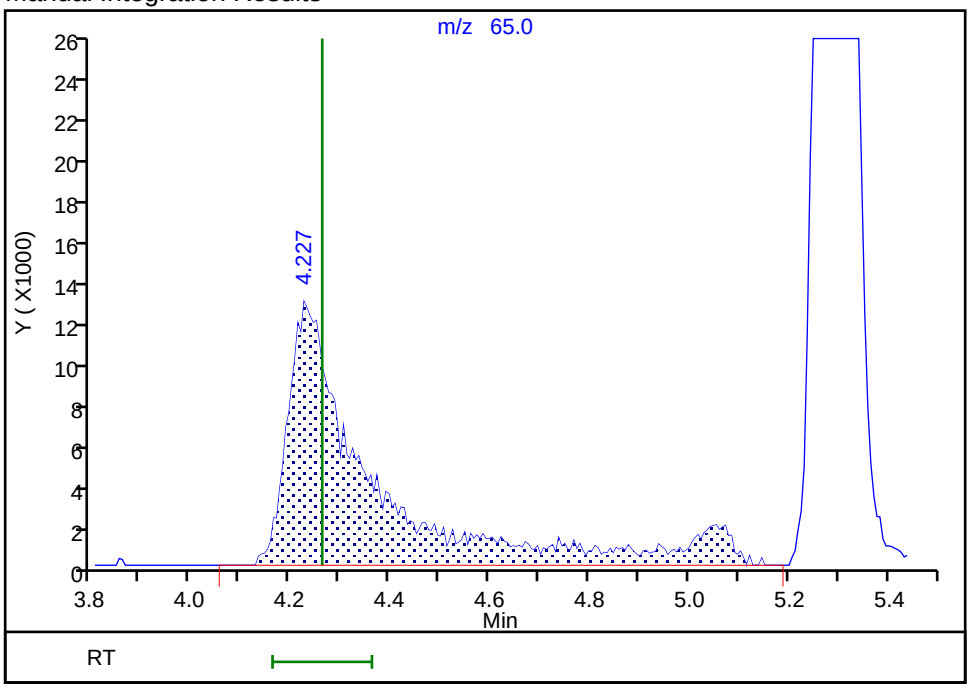
Processing Integration Results

RT: 4.23
Area: 139456
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.23
Area: 150473
Amount: 50.000000
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:17:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I32.D
Lims ID: ICIS - LG
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 15-Mar-2022 01:36:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052441-013
Misc. Info.: ICIS - LG
Operator ID: mec29284 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 16-Mar-2022 10:11:28 Calib Date: 15-Mar-2022 03:22:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1676

First Level Reviewer: kephartk Date: 16-Mar-2022 08:19:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.953	1.953	0.000	99	775367	10.0	10.3	
4 Chloromethane	50	2.148	2.148	0.000	99	767362	10.0	9.88	
5 Vinyl chloride	62	2.263	2.263	0.000	98	835832	10.0	10.2	
6 Butadiene	39	2.270	2.270	0.000	95	798845	10.0	9.96	
7 Bromomethane	94	2.599	2.599	0.000	92	679556	10.0	10.0	
8 Chloroethane	64	2.678	2.678	0.000	99	505348	10.0	10.1	
9 Dichlorofluoromethane	67	2.910	2.910	0.000	97	1266108	10.0	10.1	
10 Trichlorofluoromethane	101	2.928	2.928	0.000	97	1244670	10.0	10.2	
11 Ethyl ether	59	3.239	3.239	0.000	91	334626	10.0	9.94	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.306	3.306	0.000	88	679412	10.0	9.70	
13 Acrolein	56	3.403	3.403	0.000	99	3017661	500.0	510.3	
14 1,1-Dichloroethene	96	3.544	3.544	0.000	98	510336	10.0	9.64	
15 Acetone	43	3.574	3.574	0.000	100	728270	100.0	91.2	
16 112TCTFE	101	3.580	3.580	0.000	90	545338	10.0	9.81	
17 Iodomethane	142	3.739	3.739	0.000	99	1043578	10.0	9.62	
18 Ethyl bromide	108	3.769	3.769	0.000	99	487922	10.0	9.65	
19 Carbon disulfide	76	3.848	3.848	0.000	100	1165433	10.0	9.82	
21 Methyl acetate	43	3.995	3.995	0.000	96	186384	10.0	9.64	M
22 3-Chloro-1-propene	41	4.019	4.019	0.000	88	735174	10.0	9.80	
23 Methylene Chloride	84	4.208	4.208	0.000	90	531797	10.0	9.61	
* 24 t-Butyl alcohol-d10 (IS)	65	4.226	4.226	0.000	95	147286	50.0	50.0	M
25 2-Methyl-2-propanol	59	4.354	4.354	0.000	99	618605	200.0	209.7	
26 Acrylonitrile	53	4.550	4.550	0.000	98	244970	25.0	26.1	
27 Methyl tert-butyl ether	73	4.617	4.617	0.000	94	1341869	10.0	9.70	
28 trans-1,2-Dichloroethene	96	4.629	4.629	0.000	97	574992	10.0	9.58	
29 Hexane	57	5.056	5.056	0.000	93	723629	10.0	9.94	
31 1,1-Dichloroethane	63	5.287	5.287	0.000	96	993908	10.0	9.67	
32 Isopropyl ether	45	5.348	5.348	0.000	92	1607499	10.0	10.0	
33 2-Chloro-1,3-butadiene	53	5.403	5.403	0.000	92	818283	10.0	9.78	
34 Tert-butyl ethyl ether	59	5.885	5.885	0.000	97	1597708	10.0	9.78	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.074	6.074	0.000	99	1387836	100.0	100.2	
37 cis-1,2-Dichloroethene	96	6.122	6.122	0.000	81	644276	10.0	9.39	
38 2,2-Dichloropropane	77	6.135	6.135	0.000	87	941433	10.0	9.88	
40 Propionitrile	54	6.165	6.165	0.000	98	727147	200.0	205.1	
42 Methacrylonitrile	67	6.378	6.378	0.000	91	1405130	100.0	99.1	
43 Chlorobromomethane	128	6.446	6.446	0.000	87	301613	10.0	9.59	
44 Tetrahydrofuran	71	6.458	6.458	0.000	78	195966	50.0	50.0	
45 Chloroform	83	6.598	6.598	0.000	94	1069836	10.0	9.67	
$ 46 Dibromofluoromethane (Surr)	113	6.817	6.817	0.000	93	545283	10.0	9.98	
47 1,1,1-Trichloroethane	97	6.824	6.824	0.000	98	1037449	10.0	9.66	
48 Cyclohexane	56	6.927	6.927	0.000	91	901090	10.0	9.98	
50 Carbon tetrachloride	117	7.037	7.037	0.000	96	976207	10.0	9.83	
51 1,1-Dichloropropene	75	7.043	7.043	0.000	93	809214	10.0	9.77	
52 Isobutyl alcohol	41	7.183	7.183	0.000	93	496869	500.0	499.5	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.256	7.256	0.000	90	96026	10.0	9.87	
54 Benzene	78	7.299	7.299	0.000	97	2308112	10.0	9.70	
56 1,2-Dichloroethane	62	7.366	7.366	0.000	98	636810	10.0	9.60	
57 Tert-amyl methyl ether	73	7.488	7.488	0.000	98	1493443	10.0	9.80	
* 58 Fluorobenzene (IS)	96	7.701	7.701	0.000	99	2018353	10.0	10.0	
59 n-Heptane	43	7.714	7.714	0.000	89	748067	10.0	9.62	
60 n-Butanol	56	8.061	8.061	0.000	89	820288	875.0	1042.6	
61 Trichloroethene	95	8.177	8.177	0.000	96	661523	10.0	9.68	
62 Methylcyclohexane	83	8.488	8.488	0.000	90	1082507	10.0	9.93	
63 1,2-Dichloropropane	63	8.506	8.506	0.000	93	569329	10.0	9.99	
64 Methyl methacrylate	69	8.591	8.591	0.000	84	268217	10.0	9.99	
65 1,4-Dioxane	88	8.604	8.604	0.000	39	110430	500.0	544.7	
66 Dibromomethane	93	8.616	8.616	0.000	91	307015	10.0	9.73	
68 Dichlorobromomethane	83	8.854	8.854	0.000	99	758285	10.0	10.1	
69 2-Nitropropane	41	9.116	9.116	0.000	100	427911	50.0	51.3	
72 1-Bromo-2-chloroethane	63	9.244	9.244	0.000	99	545876	10.0	10.1	
73 cis-1,3-Dichloropropene	75	9.396	9.396	0.000	95	902444	10.0	10.2	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	97	3745376	100.0	102.3	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	94	2067816	10.0	9.99	
76 Toluene	92	9.780	9.780	0.000	98	1558024	10.0	9.71	
78 trans-1,3-Dichloropropene	75	10.036	10.036	0.000	94	754768	10.0	10.5	
79 Ethyl methacrylate	69	10.097	10.097	0.000	87	588856	10.0	10.5	
80 1,1,2-Trichloroethane	97	10.237	10.237	0.000	92	422109	10.0	9.60	
81 Tetrachloroethene	166	10.329	10.329	0.000	98	905603	10.0	9.81	
82 1,3-Dichloropropane	76	10.402	10.402	0.000	89	694300	10.0	9.82	
83 2-Hexanone	43	10.451	10.451	0.000	97	2672997	100.0	108.7	
85 Chlorodibromomethane	129	10.615	10.615	0.000	89	605912	10.0	10.2	
86 Ethylene Dibromide	107	10.731	10.731	0.000	98	430495	10.0	10.1	
* 87 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	84	1700909	10.0	10.0	
88 1-Chlorohexane	91	11.164	11.164	0.000	95	931799	10.0	9.59	
90 Chlorobenzene	112	11.182	11.182	0.000	97	1839209	10.0	9.68	
91 1,1,1,2-Tetrachloroethane	131	11.268	11.268	0.000	95	707043	10.0	10.1	
92 Ethylbenzene	91	11.268	11.268	0.000	98	3113773	10.0	9.81	
93 m-Xylene & p-Xylene	106	11.384	11.384	0.000	99	2560376	20.0	19.7	
94 o-Xylene	106	11.713	11.713	0.000	95	1252820	10.0	9.79	
95 Styrene	104	11.725	11.725	0.000	94	2015851	10.0	10.1	
96 Bromoform	173	11.890	11.890	0.000	98	398616	10.0	10.8	
97 Isopropylbenzene	105	12.012	12.012	0.000	96	3323539	10.0	9.95	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 100 4-Bromofluorobenzene (Surr)	95	12.158	12.158	0.000	96	798597	10.0	9.95	
101 1,1,2,2-Tetrachloroethane	83	12.255	12.255	0.000	95	545272	10.0	9.82	
102 Bromobenzene	156	12.274	12.274	0.000	97	843377	10.0	9.55	
103 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	92	1514033	100.0	114.6	
104 1,2,3-Trichloropropane	110	12.304	12.304	0.000	85	157407	10.0	9.57	
105 N-Propylbenzene	91	12.341	12.341	0.000	98	3777132	10.0	9.80	
106 2-Chlorotoluene	126	12.414	12.414	0.000	97	813415	10.0	9.60	
107 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	94	2804438	10.0	9.84	
108 4-Chlorotoluene	126	12.511	12.511	0.000	97	836084	10.0	9.66	
109 tert-Butylbenzene	134	12.719	12.719	0.000	93	662432	10.0	9.64	
110 Pentachloroethane	167	12.749	12.749	0.000	93	587717	10.0	10.4	
111 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	2860782	10.0	9.95	
112 sec-Butylbenzene	105	12.877	12.877	0.000	94	3584310	10.0	9.85	
113 1,3-Dichlorobenzene	146	12.981	12.981	0.000	99	1681322	10.0	9.78	
114 4-Isopropyltoluene	119	12.987	12.987	0.000	97	3239138	10.0	9.89	
* 115 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	93	1049716	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.054	13.054	0.000	95	1684578	10.0	9.59	
117 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	98	1276413	10.0	9.61	
118 Benzyl chloride	126	13.127	13.127	0.000	98	243381	10.0	10.8	
119 n-Butylbenzene	92	13.280	13.280	0.000	97	1497756	10.0	10.3	
120 1,2-Dichlorobenzene	146	13.310	13.310	0.000	99	1547734	10.0	9.87	
122 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	90	95086	10.0	10.7	
123 1,3,5-Trichlorobenzene	180	13.981	13.981	0.000	98	1290067	10.0	10.0	
124 1,2,4-Trichlorobenzene	180	14.401	14.401	0.000	94	1105018	10.0	10.2	
125 Hexachlorobutadiene	225	14.487	14.487	0.000	95	466003	10.0	9.49	
126 Naphthalene	128	14.584	14.584	0.000	97	1856952	10.0	10.0	
127 1,2,3-Trichlorobenzene	180	14.724	14.724	0.000	95	930716	10.0	9.82	
137 2-Methylnaphthalene	142		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	
134 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_00038	Amount Added: 10.00	Units: uL	
MSV_LL_#2_826_00042	Amount Added: 10.00	Units: uL	
MSV_LL_GAS826_00072	Amount Added: 10.00	Units: uL	
MSV_LLcentISS_00004	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 16-Mar-2022 10:11:29 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I32.D

Injection Date: 15-Mar-2022 01:36:30 Instrument ID: 19930 Operator ID: mec29284

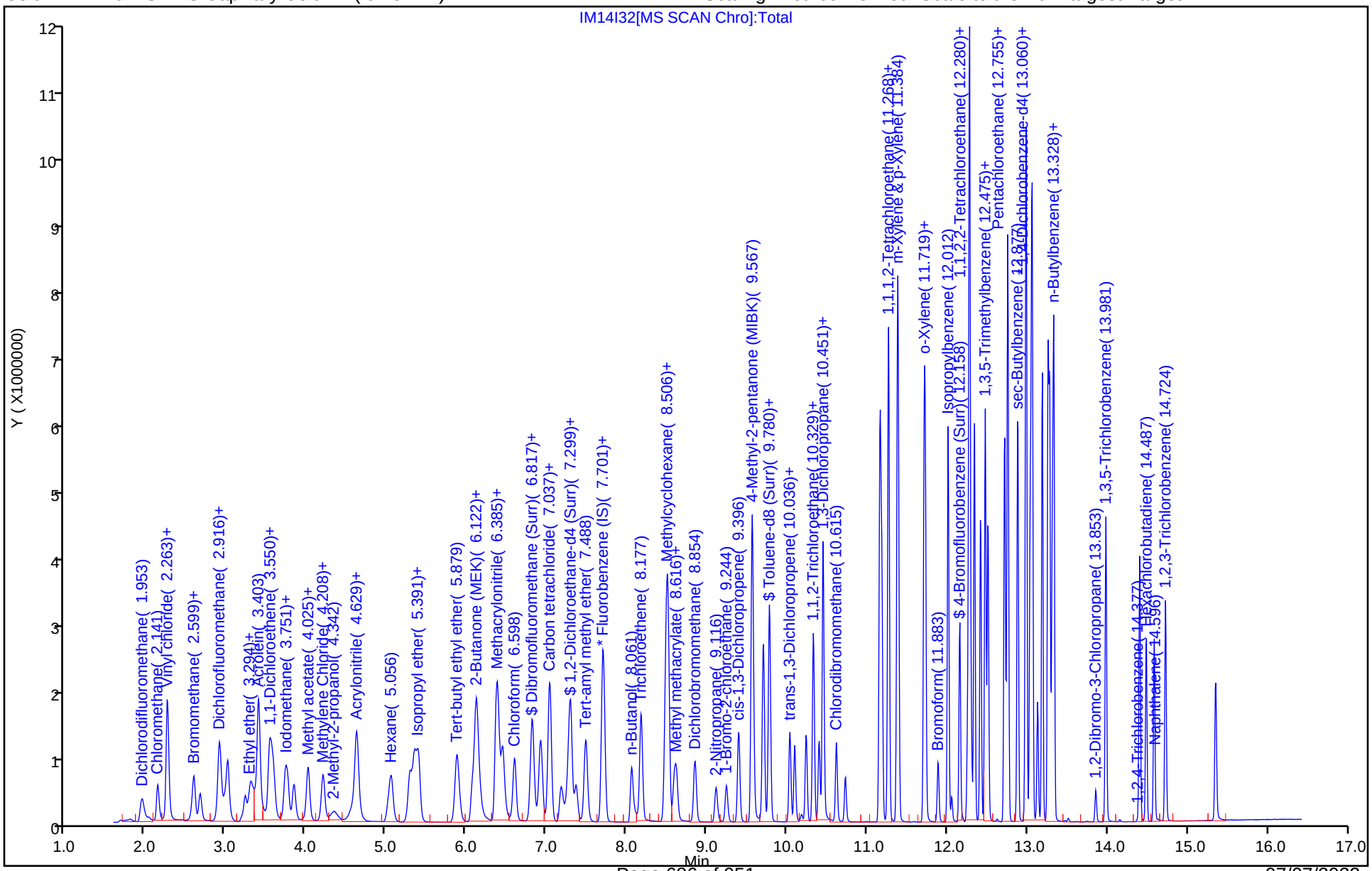
Lims ID: ICIS - LG Worklist Smp#: 13

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

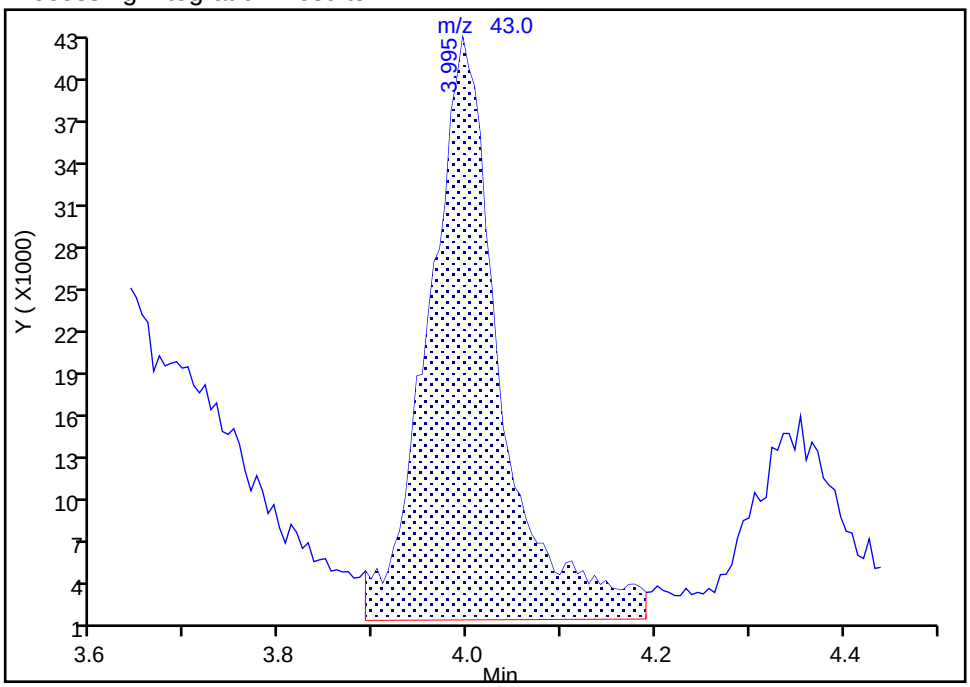
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I32.D
Injection Date: 15-Mar-2022 01:36:30 Instrument ID: 19930
Lims ID: ICIS - LG
Client ID:
Operator ID: mec29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

21 Methyl acetate, CAS: 79-20-9

Signal: 1

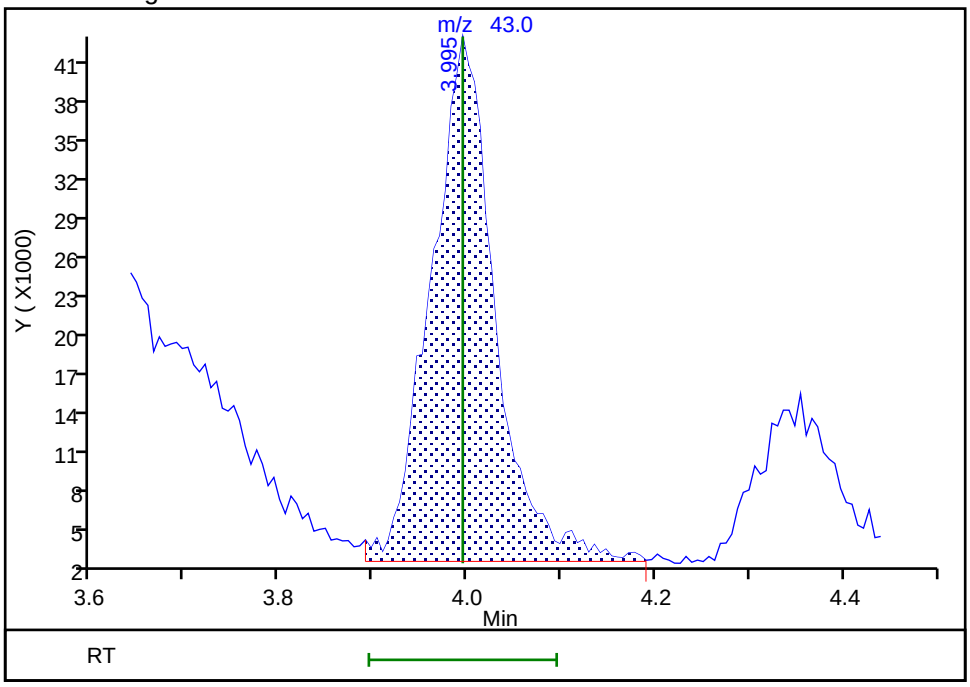
Processing Integration Results

RT: 3.99
Area: 220010
Amount: 11.108859
Amount Units: ug/l



Manual Integration Results

RT: 3.99
Area: 186384
Amount: 9.638692
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:18:41
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

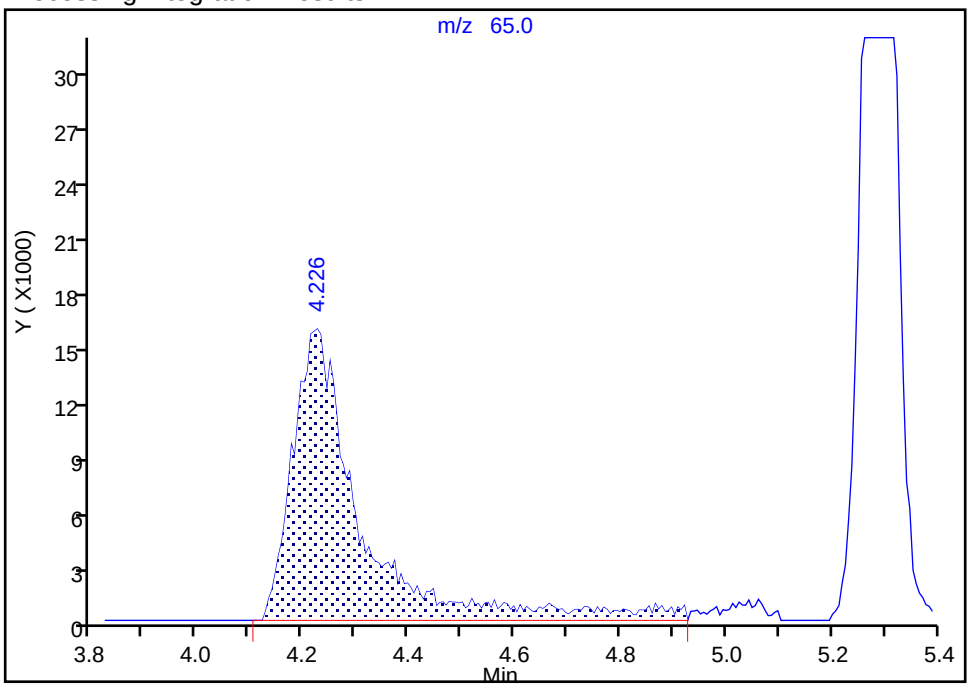
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I32.D
Injection Date: 15-Mar-2022 01:36:30 Instrument ID: 19930
Lims ID: ICIS - LG
Client ID:
Operator ID: mec29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 24 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

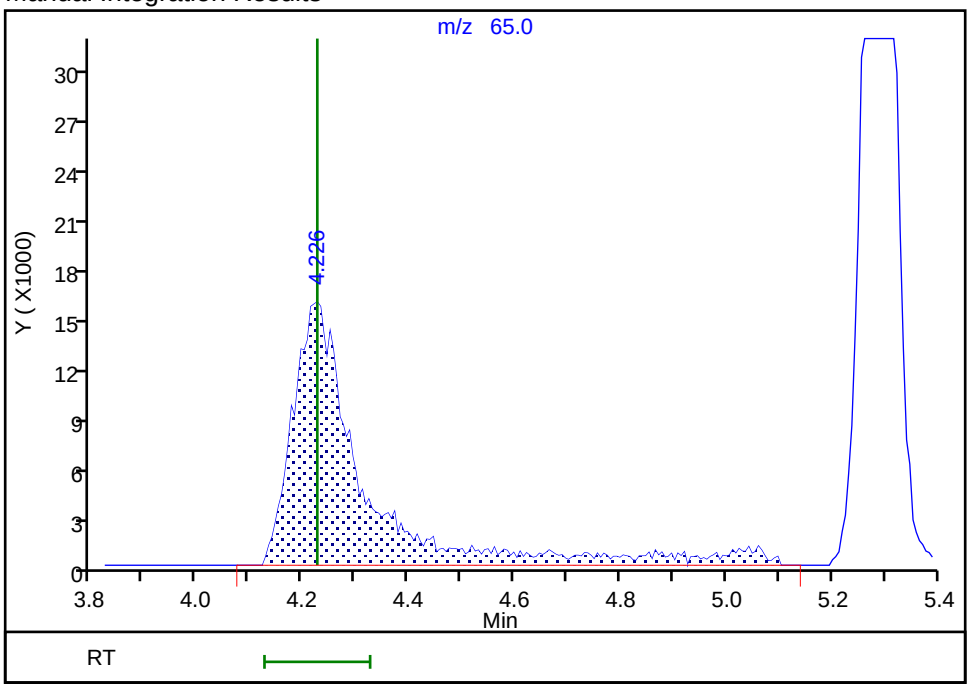
Processing Integration Results

RT: 4.23
Area: 140812
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.23
Area: 147286
Amount: 50.000000
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:18:48
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I33.D
Lims ID: IC std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 15-Mar-2022 01:58:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052441-014
Misc. Info.: IC STD5
Operator ID: mec29284 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 16-Mar-2022 10:11:32 Calib Date: 15-Mar-2022 03:22:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1676

First Level Reviewer: kephartk Date: 16-Mar-2022 08:23:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.953	1.953	0.001	99	391871	5.00	5.23	
4 Chloromethane	50	2.148	2.148	0.000	99	383740	5.00	4.97	
5 Vinyl chloride	62	2.264	2.263	0.001	84	421383	5.00	5.16	
6 Butadiene	39	2.270	2.270	0.000	93	403813	5.00	5.06	
7 Bromomethane	94	2.599	2.599	0.000	92	330801	5.00	4.90	
8 Chloroethane	64	2.678	2.678	0.000	99	249286	5.00	5.02	
9 Dichlorofluoromethane	67	2.916	2.910	0.006	98	613064	5.00	4.91	
10 Trichlorofluoromethane	101	2.928	2.928	0.000	97	626391	5.00	5.16	
11 Ethyl ether	59	3.239	3.239	0.000	90	168002	5.00	5.02	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.306	3.306	0.000	88	342871	5.00	4.92	
13 Acrolein	56	3.404	3.403	0.001	99	1475679	250.0	245.1	
14 1,1-Dichloroethene	96	3.544	3.544	0.000	97	265552	5.00	5.04	
15 Acetone	43	3.574	3.574	0.000	81	395553	50.0	48.6	M
16 112TCTFE	101	3.586	3.580	0.006	89	287670	5.00	5.20	
17 Iodomethane	142	3.739	3.739	0.000	100	533265	5.00	4.94	
18 Ethyl bromide	108	3.769	3.769	0.000	99	256852	5.00	5.11	
19 Carbon disulfide	76	3.849	3.848	0.001	100	596804	5.00	5.05	
21 Methyl acetate	43	4.013	3.995	0.018	97	105367	5.00	5.29	M
22 3-Chloro-1-propene	41	4.025	4.019	0.006	88	370309	5.00	4.96	
23 Methylene Chloride	84	4.214	4.208	0.006	92	270557	5.00	4.91	
* 24 t-Butyl alcohol-d10 (IS)	65	4.214	4.226	-0.012	97	149941	50.0	50.0	M
25 2-Methyl-2-propanol	59	4.349	4.354	-0.006	99	299177	100.0	99.6	
26 Acrylonitrile	53	4.550	4.550	0.000	97	123024	12.5	12.9	
27 Methyl tert-butyl ether	73	4.623	4.617	0.006	94	678446	5.00	4.93	
28 trans-1,2-Dichloroethene	96	4.635	4.629	0.006	97	291715	5.00	4.88	
29 Hexane	57	5.062	5.056	0.006	93	376145	5.00	5.19	
31 1,1-Dichloroethane	63	5.287	5.287	0.000	96	506938	5.00	4.96	
32 Isopropyl ether	45	5.348	5.348	0.000	92	806621	5.00	5.05	
33 2-Chloro-1,3-butadiene	53	5.397	5.403	-0.006	91	419888	5.00	5.04	
34 Tert-butyl ethyl ether	59	5.879	5.885	-0.006	97	805906	5.00	4.96	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.080	6.074	0.006	99	710896	50.0	50.4	
37 cis-1,2-Dichloroethene	96	6.123	6.122	0.001	81	325971	5.00	4.78	
38 2,2-Dichloropropane	77	6.135	6.135	0.000	88	476899	5.00	5.03	
S 35 1,2-Dichloroethene, Total	100				0			9.66	
40 Propionitrile	54	6.171	6.165	0.006	98	352145	100.0	97.5	
42 Methacrylonitrile	67	6.385	6.378	0.007	94	707937	50.0	49.1	
43 Chlorobromomethane	128	6.452	6.446	0.006	86	153997	5.00	4.92	
44 Tetrahydrofuran	71	6.464	6.458	0.006	88	101424	25.0	25.4	
45 Chloroform	83	6.598	6.598	0.000	94	542529	5.00	4.93	
$ 46 Dibromofluoromethane (Surr)	113	6.811	6.817	-0.006	94	540907	10.0	9.95	
47 1,1,1-Trichloroethane	97	6.830	6.824	0.006	97	529783	5.00	4.96	
48 Cyclohexane	56	6.927	6.927	0.000	90	460490	5.00	5.13	
50 Carbon tetrachloride	117	7.043	7.037	0.006	96	497787	5.00	5.04	
51 1,1-Dichloropropene	75	7.037	7.043	-0.006	93	412120	5.00	5.00	
52 Isobutyl alcohol	41	7.177	7.183	-0.006	92	259655	250.0	256.4	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.263	7.256	0.007	86	95088	10.0	9.82	
54 Benzene	78	7.299	7.299	0.000	97	1173966	5.00	4.96	
56 1,2-Dichloroethane	62	7.366	7.366	0.000	97	317860	5.00	4.82	
57 Tert-amyl methyl ether	73	7.488	7.488	0.000	98	748734	5.00	4.94	
* 58 Fluorobenzene (IS)	96	7.702	7.701	0.001	99	2008310	10.0	10.0	
59 n-Heptane	43	7.714	7.714	0.000	91	392950	5.00	5.08	
60 n-Butanol	56	8.061	8.061	0.000	89	401095	437.5	500.8	
61 Trichloroethene	95	8.177	8.177	0.000	95	334265	5.00	4.92	
62 Methylcyclohexane	83	8.488	8.488	0.000	91	555609	5.00	5.12	
63 1,2-Dichloropropane	63	8.506	8.506	0.000	92	290817	5.00	5.13	
64 Methyl methacrylate	69	8.592	8.591	0.001	88	137875	5.00	5.04	
65 1,4-Dioxane	88	8.604	8.604	0.000	40	52415	250.0	253.9	
66 Dibromomethane	93	8.622	8.616	0.006	91	155310	5.00	4.95	
68 Dichlorobromomethane	83	8.854	8.854	0.000	99	374926	5.00	5.01	
69 2-Nitropropane	41	9.116	9.116	0.000	99	213622	25.0	25.2	
72 1-Bromo-2-chloroethane	63	9.244	9.244	0.000	98	273832	5.00	5.10	
73 cis-1,3-Dichloropropene	75	9.396	9.396	0.000	95	450984	5.00	5.11	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	97	1890983	50.0	50.7	
$ 75 Toluene-d8 (Surr)	98	9.701	9.707	-0.006	93	2053919	10.0	10.0	
76 Toluene	92	9.780	9.780	0.000	98	784204	5.00	4.93	
78 trans-1,3-Dichloropropene	75	10.036	10.036	0.000	93	372452	5.00	5.22	
S 77 1,3-Dichloropropene, Total	100				0			10.3	
79 Ethyl methacrylate	69	10.097	10.097	0.000	88	291895	5.00	5.27	
80 1,1,2-Trichloroethane	97	10.238	10.237	0.001	92	211303	5.00	4.85	
81 Tetrachloroethene	166	10.329	10.329	0.000	98	455530	5.00	4.98	
82 1,3-Dichloropropane	76	10.402	10.402	0.000	90	354541	5.00	5.06	
83 2-Hexanone	43	10.451	10.451	0.000	97	1298814	50.0	51.9	
85 Chlorodibromomethane	129	10.616	10.615	0.001	89	300253	5.00	5.08	
86 Ethylene Dibromide	107	10.731	10.731	0.000	98	220656	5.00	5.22	
* 87 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	84	1684584	10.0	10.0	
88 1-Chlorohexane	91	11.164	11.164	0.000	94	467596	5.00	4.86	
90 Chlorobenzene	112	11.183	11.182	0.001	96	933989	5.00	4.97	
S 89 Xylenes, Total	106				0			14.9	
91 1,1,1,2-Tetrachloroethane	131	11.268	11.268	0.000	95	353025	5.00	5.08	
92 Ethylbenzene	91	11.268	11.268	0.000	98	1558260	5.00	4.96	
93 m-Xylene & p-Xylene	106	11.384	11.384	0.000	99	1282219	10.0	9.96	
94 o-Xylene	106	11.713	11.713	0.000	96	625138	5.00	4.93	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
95 Styrene	104	11.731	11.725	0.006	95	990642	5.00	5.02	
96 Bromoform	173	11.890	11.890	0.000	98	189692	5.00	5.21	
97 Isopropylbenzene	105	12.012	12.012	0.000	95	1646507	5.00	4.98	
$ 100 4-Bromofluorobenzene (Surr)	95	12.158	12.158	0.000	97	791795	10.0	9.96	
101 1,1,2,2-Tetrachloroethane	83	12.256	12.255	0.001	94	272342	5.00	5.06	
102 Bromobenzene	156	12.274	12.274	0.000	95	429256	5.00	5.02	
103 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	95	708706	50.0	52.7	
104 1,2,3-Trichloropropane	110	12.304	12.304	0.000	84	80120	5.00	5.03	
105 N-Propylbenzene	91	12.341	12.341	0.000	99	1902259	5.00	5.10	
106 2-Chlorotoluene	126	12.414	12.414	0.000	98	412847	5.00	5.03	
107 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	95	1393730	5.00	5.05	
108 4-Chlorotoluene	126	12.512	12.511	0.001	96	415311	5.00	4.96	
109 tert-Butylbenzene	134	12.719	12.719	0.000	92	335259	5.00	5.04	
110 Pentachloroethane	167	12.749	12.749	0.000	91	288333	5.00	5.28	
111 1,2,4-Trimethylbenzene	105	12.762	12.755	0.007	97	1409233	5.00	5.06	
112 sec-Butylbenzene	105	12.877	12.877	0.000	94	1785777	5.00	5.07	
113 1,3-Dichlorobenzene	146	12.981	12.981	0.000	99	824593	5.00	4.95	
114 4-Isopropyltoluene	119	12.987	12.987	0.000	97	1589520	5.00	5.01	
* 115 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	93	1016421	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.054	13.054	0.000	95	833641	5.00	4.90	
117 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	98	631723	5.00	4.91	
118 Benzyl chloride	126	13.127	13.127	0.000	98	119615	5.00	5.50	
119 n-Butylbenzene	92	13.280	13.280	0.000	97	716377	5.00	5.09	
120 1,2-Dichlorobenzene	146	13.310	13.310	0.000	99	757252	5.00	4.99	
122 1,2-Dibromo-3-Chloropropane	155	13.859	13.853	0.006	89	47557	5.00	5.53	
123 1,3,5-Trichlorobenzene	180	13.981	13.981	0.000	98	624432	5.00	5.02	
124 1,2,4-Trichlorobenzene	180	14.401	14.401	0.000	94	547927	5.00	5.23	
125 Hexachlorobutadiene	225	14.487	14.487	0.000	95	223993	5.00	4.71	
126 Naphthalene	128	14.584	14.584	0.000	97	930872	5.00	5.19	
127 1,2,3-Trichlorobenzene	180	14.725	14.724	0.001	96	461720	5.00	5.03	
137 2-Methylnaphthalene	142		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	
134 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_00038	Amount Added:	5.00	Units: uL	
MSV_LL_#2_826_00042	Amount Added:	5.00	Units: uL	
MSV_LL_GAS826_00072	Amount Added:	5.00	Units: uL	
MSV_LLcentISS_00004	Amount Added:	5.00	Units: uL	Run Reagent

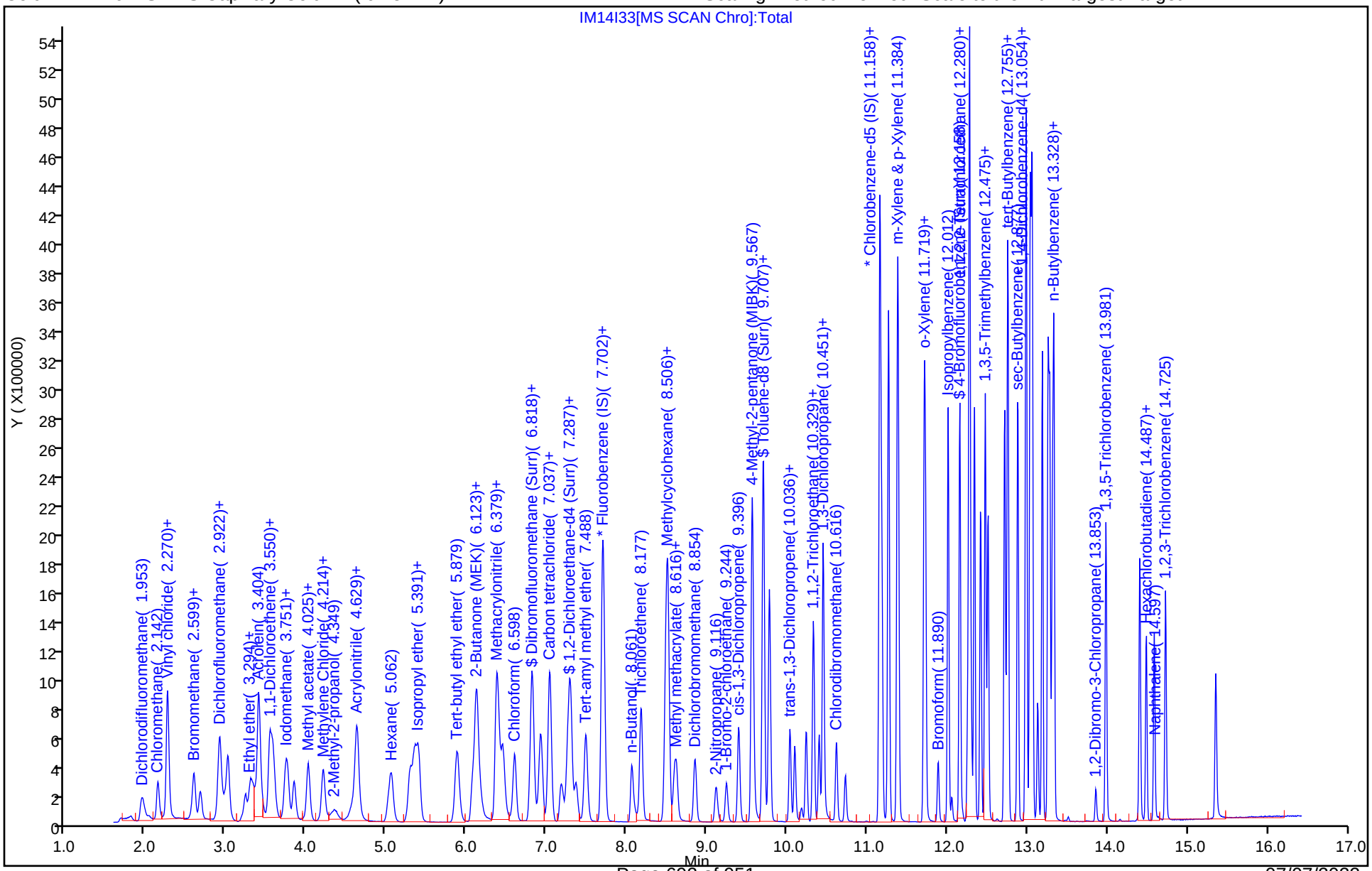
Report Date: 16-Mar-2022 10:11:33 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I33.D

Injection Date:	15-Mar-2022 01:58:30	Instrument ID:	19930	Operator ID:	mec29284
Lims ID:	IC std5			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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

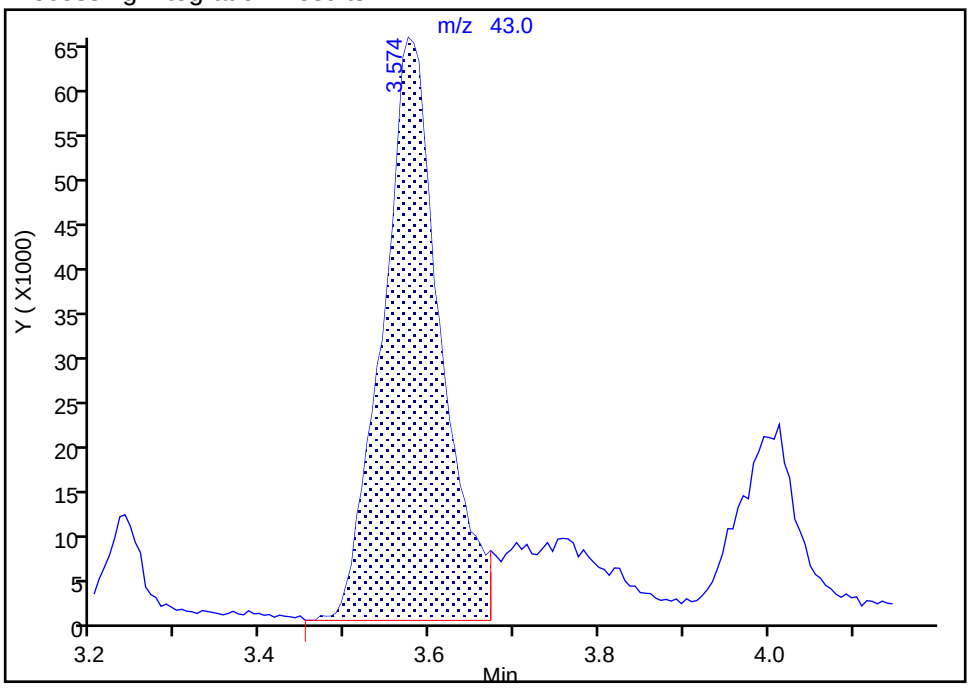
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I33.D
Injection Date: 15-Mar-2022 01:58:30 Instrument ID: 19930
Lims ID: IC std5
Client ID:
Operator ID: mec29284 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

15 Acetone, CAS: 67-64-1

Signal: 1

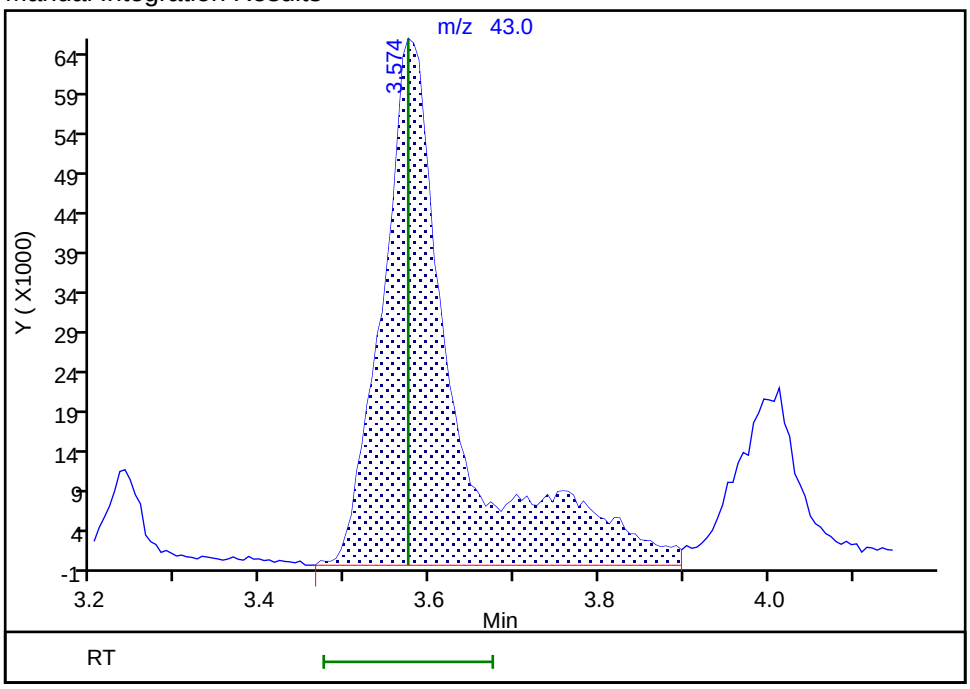
Processing Integration Results

RT: 3.57
Area: 313372
Amount: 41.169443
Amount Units: ug/l



Manual Integration Results

RT: 3.57
Area: 395553
Amount: 48.633680
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:20:05
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

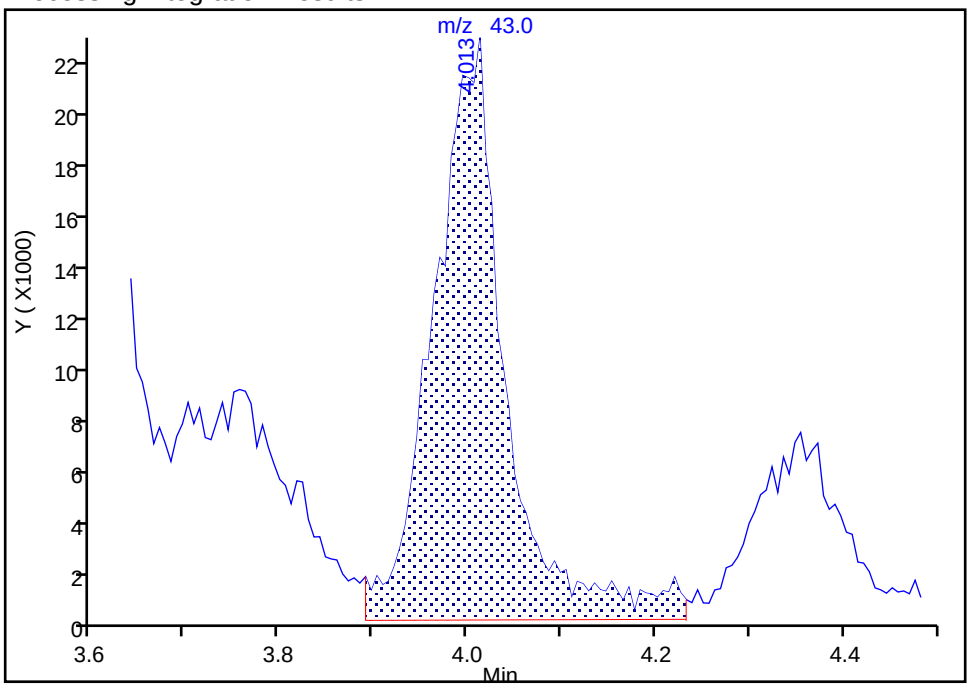
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I33.D
Injection Date: 15-Mar-2022 01:58:30 Instrument ID: 19930
Lims ID: IC std5
Client ID:
Operator ID: mec29284 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

21 Methyl acetate, CAS: 79-20-9

Signal: 1

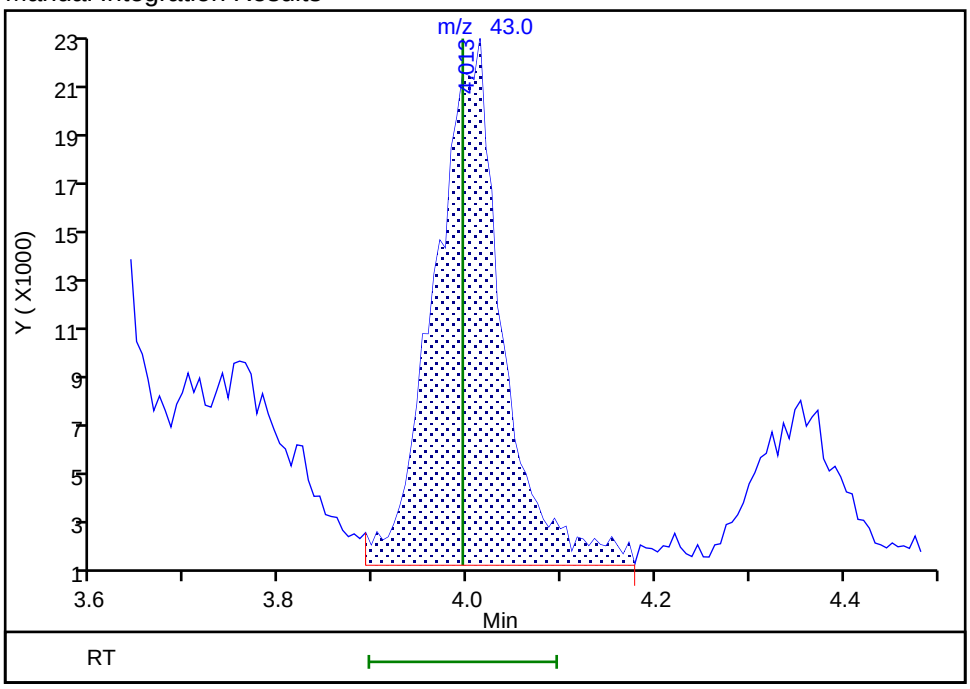
Processing Integration Results

RT: 4.01
Area: 113696
Amount: 5.683993
Amount Units: ug/l



Manual Integration Results

RT: 4.01
Area: 105367
Amount: 5.291579
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:20:33
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

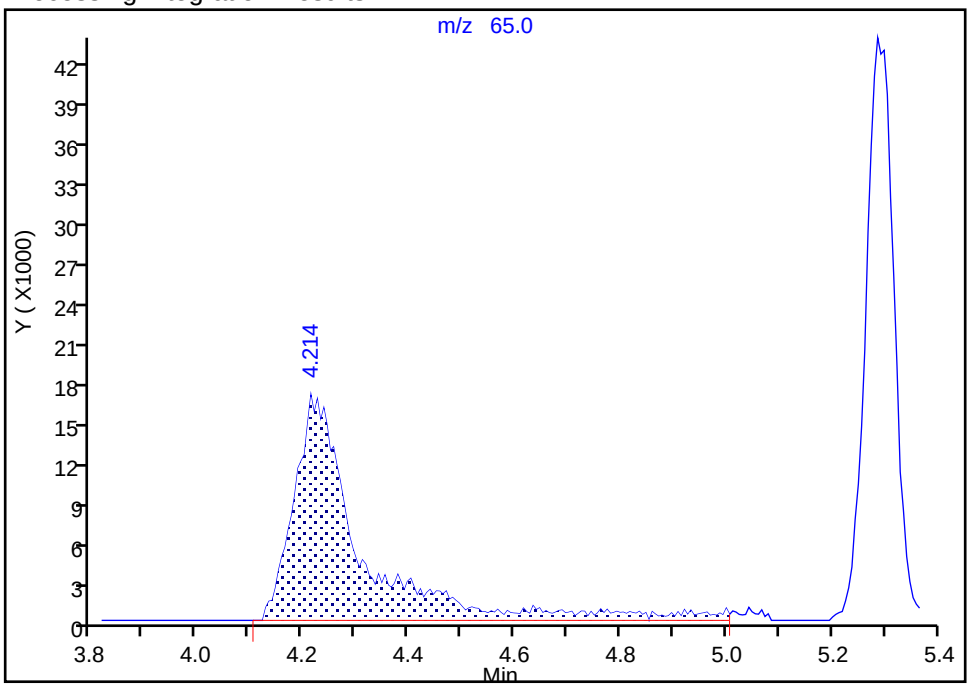
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I33.D
Injection Date: 15-Mar-2022 01:58:30 Instrument ID: 19930
Lims ID: IC std5
Client ID:
Operator ID: mec29284 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 24 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

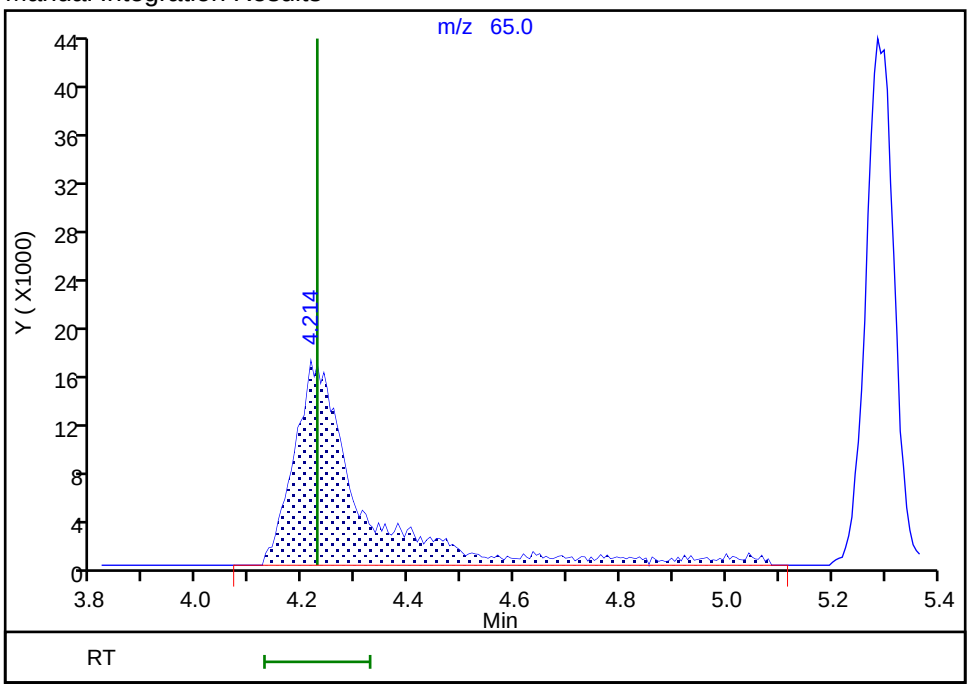
Processing Integration Results

RT: 4.21
Area: 147454
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.21
Area: 149941
Amount: 50.000000
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:20:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I34.D
Lims ID: IC std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 15-Mar-2022 02:19:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052441-015
Misc. Info.: IC STD4
Operator ID: mec29284 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 16-Mar-2022 10:11:37 Calib Date: 15-Mar-2022 03:22:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1676

First Level Reviewer: kephartk Date: 16-Mar-2022 08:25:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.953	1.953	0.000	99	151440	2.00	2.02	
4 Chloromethane	50	2.142	2.142	0.000	99	152777	2.00	1.98	
5 Vinyl chloride	62	2.264	2.264	0.000	89	161037	2.00	1.98	
6 Butadiene	39	2.264	2.264	0.000	92	170292	2.00	2.14	
7 Bromomethane	94	2.599	2.599	0.000	92	127889	2.00	1.90	
8 Chloroethane	64	2.678	2.678	0.000	99	97172	2.00	1.96	
9 Dichlorofluoromethane	67	2.916	2.916	0.000	97	244787	2.00	1.96	
10 Trichlorofluoromethane	101	2.928	2.928	0.000	94	247207	2.00	2.04	
11 Ethyl ether	59	3.233	3.233	0.000	89	65699	2.00	1.96	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.312	3.312	0.000	93	136009	2.00	1.95	
13 Acrolein	56	3.404	3.404	0.000	99	590057	100.0	104.3	
14 1,1-Dichloroethene	96	3.544	3.544	0.000	98	104409	2.00	1.98	
15 Acetone	43	3.580	3.580	0.000	96	148892	20.0	19.5	
16 112TCTFE	101	3.580	3.580	0.000	88	112525	2.00	2.04	
17 Iodomethane	142	3.739	3.739	0.000	99	217917	2.00	2.02	
18 Ethyl bromide	108	3.769	3.769	0.000	99	99603	2.00	1.98	
19 Carbon disulfide	76	3.849	3.849	0.000	100	237527	2.00	2.01	
21 Methyl acetate	43	4.007	4.007	0.000	20	39331	2.00	2.02	M
22 3-Chloro-1-propene	41	4.025	4.025	0.000	88	149475	2.00	2.01	
23 Methylene Chloride	84	4.214	4.214	0.000	89	110744	2.00	2.01	
* 24 t-Butyl alcohol-d10 (IS)	65	4.214	4.214	0.000	97	140927	50.0	50.0	M
25 2-Methyl-2-propanol	59	4.342	4.342	0.000	99	120168	40.0	42.6	
26 Acrylonitrile	53	4.562	4.562	0.000	97	44225	5.00	4.92	
27 Methyl tert-butyl ether	73	4.617	4.617	0.000	95	273994	2.00	1.99	
28 trans-1,2-Dichloroethene	96	4.629	4.629	0.000	98	117480	2.00	1.97	
29 Hexane	57	5.056	5.056	0.000	95	151532	2.00	2.09	
31 1,1-Dichloroethane	63	5.287	5.287	0.000	96	208183	2.00	2.04	
32 Isopropyl ether	45	5.354	5.354	0.000	91	320905	2.00	2.01	
33 2-Chloro-1,3-butadiene	53	5.403	5.403	0.000	92	163958	2.00	1.97	
34 Tert-butyl ethyl ether	59	5.879	5.879	0.000	96	321001	2.00	1.98	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.080	6.080	0.000	100	270158	20.0	20.4	
37 cis-1,2-Dichloroethene	96	6.123	6.123	0.000	81	134101	2.00	1.97	
38 2,2-Dichloropropane	77	6.135	6.135	0.000	78	191828	2.00	2.03	
S 35 1,2-Dichloroethene, Total	100				0			3.94	
40 Propionitrile	54	6.177	6.177	0.000	99	136671	40.0	40.3	
42 Methacrylonitrile	67	6.379	6.379	0.000	89	276412	20.0	20.4	
43 Chlorobromomethane	128	6.446	6.446	0.000	87	61031	2.00	1.95	
44 Tetrahydrofuran	71	6.458	6.458	0.000	74	38887	10.0	10.4	
45 Chloroform	83	6.604	6.604	0.000	93	217483	2.00	1.98	
$ 46 Dibromofluoromethane (Surr)	113	6.812	6.812	0.000	94	545251	10.0	10.0	
47 1,1,1-Trichloroethane	97	6.830	6.830	0.000	59	215247	2.00	2.02	
48 Cyclohexane	56	6.927	6.927	0.000	90	188548	2.00	2.10	
50 Carbon tetrachloride	117	7.037	7.037	0.000	96	197475	2.00	2.00	
51 1,1-Dichloropropene	75	7.037	7.037	0.000	93	165673	2.00	2.01	
52 Isobutyl alcohol	41	7.189	7.189	0.000	94	91271	100.0	95.9	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.257	7.257	0.000	73	95723	10.0	9.90	
54 Benzene	78	7.299	7.299	0.000	97	473085	2.00	2.00	
56 1,2-Dichloroethane	62	7.366	7.366	0.000	97	125787	2.00	1.91	
57 Tert-amyl methyl ether	73	7.488	7.488	0.000	98	301152	2.00	1.99	
* 58 Fluorobenzene (IS)	96	7.695	7.695	0.000	99	2005717	10.0	10.0	
59 n-Heptane	43	7.708	7.708	0.000	85	153938	2.00	1.99	
60 n-Butanol	56	8.073	8.073	0.000	92	135748	175.0	180.3	
61 Trichloroethene	95	8.177	8.177	0.000	95	134124	2.00	1.98	
62 Methylcyclohexane	83	8.482	8.482	0.000	91	227524	2.00	2.10	
63 1,2-Dichloropropane	63	8.500	8.500	0.000	88	115228	2.00	2.03	
64 Methyl methacrylate	69	8.592	8.592	0.000	84	53110	2.00	2.07	
65 1,4-Dioxane	88	8.604	8.604	0.000	32	20566	100.0	106.0	M
66 Dibromomethane	93	8.610	8.610	0.000	90	59795	2.00	1.91	
68 Dichlorobromomethane	83	8.854	8.854	0.000	99	149556	2.00	2.00	
69 2-Nitropropane	41	9.116	9.116	0.000	98	80273	10.0	10.1	
72 1-Bromo-2-chloroethane	63	9.244	9.244	0.000	98	107071	2.00	2.00	
73 cis-1,3-Dichloropropene	75	9.396	9.396	0.000	95	174580	2.00	1.98	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	97	710069	20.0	20.3	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2046750	10.0	10.1	
76 Toluene	92	9.780	9.780	0.000	98	310732	2.00	1.97	
78 trans-1,3-Dichloropropene	75	10.036	10.036	0.000	93	142453	2.00	2.01	
S 77 1,3-Dichloropropene, Total	100				0			4.00	
79 Ethyl methacrylate	69	10.097	10.097	0.000	88	108772	2.00	1.98	
80 1,1,2-Trichloroethane	97	10.244	10.244	0.000	91	85157	2.00	1.97	
81 Tetrachloroethene	166	10.329	10.329	0.000	98	182846	2.00	2.02	
82 1,3-Dichloropropane	76	10.402	10.402	0.000	90	139306	2.00	2.01	
83 2-Hexanone	43	10.451	10.451	0.000	97	483982	20.0	20.6	
85 Chlorodibromomethane	129	10.616	10.616	0.000	89	115590	2.00	1.97	
86 Ethylene Dibromide	107	10.731	10.731	0.000	99	83682	2.00	2.00	
* 87 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	84	1668976	10.0	10.0	
88 1-Chlorohexane	91	11.164	11.164	0.000	95	184524	2.00	1.93	
90 Chlorobenzene	112	11.183	11.183	0.000	97	366783	2.00	1.97	
S 89 Xylenes, Total	106				0			5.92	
91 1,1,1,2-Tetrachloroethane	131	11.268	11.268	0.000	95	138560	2.00	2.01	
92 Ethylbenzene	91	11.268	11.268	0.000	98	612096	2.00	1.96	
93 m-Xylene & p-Xylene	106	11.384	11.384	0.000	100	503919	4.00	3.95	
94 o-Xylene	106	11.713	11.713	0.000	96	247504	2.00	1.97	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
95 Styrene	104	11.731	11.731	0.000	95	384280	2.00	1.97	
96 Bromoform	173	11.890	11.890	0.000	98	70310	2.00	1.95	
97 Isopropylbenzene	105	12.012	12.012	0.000	95	652274	2.00	1.99	
$ 100 4-Bromofluorobenzene (Surr)	95	12.158	12.158	0.000	97	793453	10.0	10.1	
101 1,1,2,2-Tetrachloroethane	83	12.256	12.256	0.000	94	103362	2.00	1.93	
102 Bromobenzene	156	12.274	12.274	0.000	92	166897	2.00	1.96	
103 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	95	256925	20.0	20.3	
104 1,2,3-Trichloropropane	110	12.298	12.298	0.000	82	30887	2.00	1.95	
105 N-Propylbenzene	91	12.341	12.341	0.000	98	735673	2.00	1.98	
106 2-Chlorotoluene	126	12.414	12.414	0.000	98	165738	2.00	2.03	
107 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	94	544217	2.00	1.98	
108 4-Chlorotoluene	126	12.512	12.512	0.000	96	165055	2.00	1.98	
109 tert-Butylbenzene	134	12.719	12.719	0.000	92	133195	2.00	2.01	
110 Pentachloroethane	167	12.749	12.749	0.000	91	108889	2.00	2.00	
111 1,2,4-Trimethylbenzene	105	12.762	12.762	0.000	96	553867	2.00	2.00	
112 sec-Butylbenzene	105	12.877	12.877	0.000	94	702149	2.00	2.00	
113 1,3-Dichlorobenzene	146	12.981	12.981	0.000	99	325278	2.00	1.96	
114 4-Isopropyltoluene	119	12.987	12.987	0.000	98	626442	2.00	1.98	
* 115 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	93	1013034	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.054	13.054	0.000	97	334191	2.00	1.97	
117 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	98	246753	2.00	1.92	
118 Benzyl chloride	126	13.133	13.133	0.000	98	41765	2.00	1.93	
119 n-Butylbenzene	92	13.280	13.280	0.000	96	279757	2.00	1.99	
120 1,2-Dichlorobenzene	146	13.316	13.316	0.000	99	296139	2.00	1.96	
122 1,2-Dibromo-3-Chloropropane	155	13.859	13.859	0.000	88	17417	2.00	2.03	
123 1,3,5-Trichlorobenzene	180	13.981	13.981	0.000	98	250743	2.00	2.02	
124 1,2,4-Trichlorobenzene	180	14.408	14.408	0.000	92	208572	2.00	2.00	
125 Hexachlorobutadiene	225	14.487	14.487	0.000	96	91714	2.00	1.94	
126 Naphthalene	128	14.584	14.584	0.000	96	362073	2.00	2.03	
127 1,2,3-Trichlorobenzene	180	14.725	14.725	0.000	95	180095	2.00	1.97	
137 2-Methylnaphthalene	142		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
134 Isopropyl alcohol	45		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00038	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00042	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00072	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00004	Amount Added:	5.00	Units: uL	Run Reagent

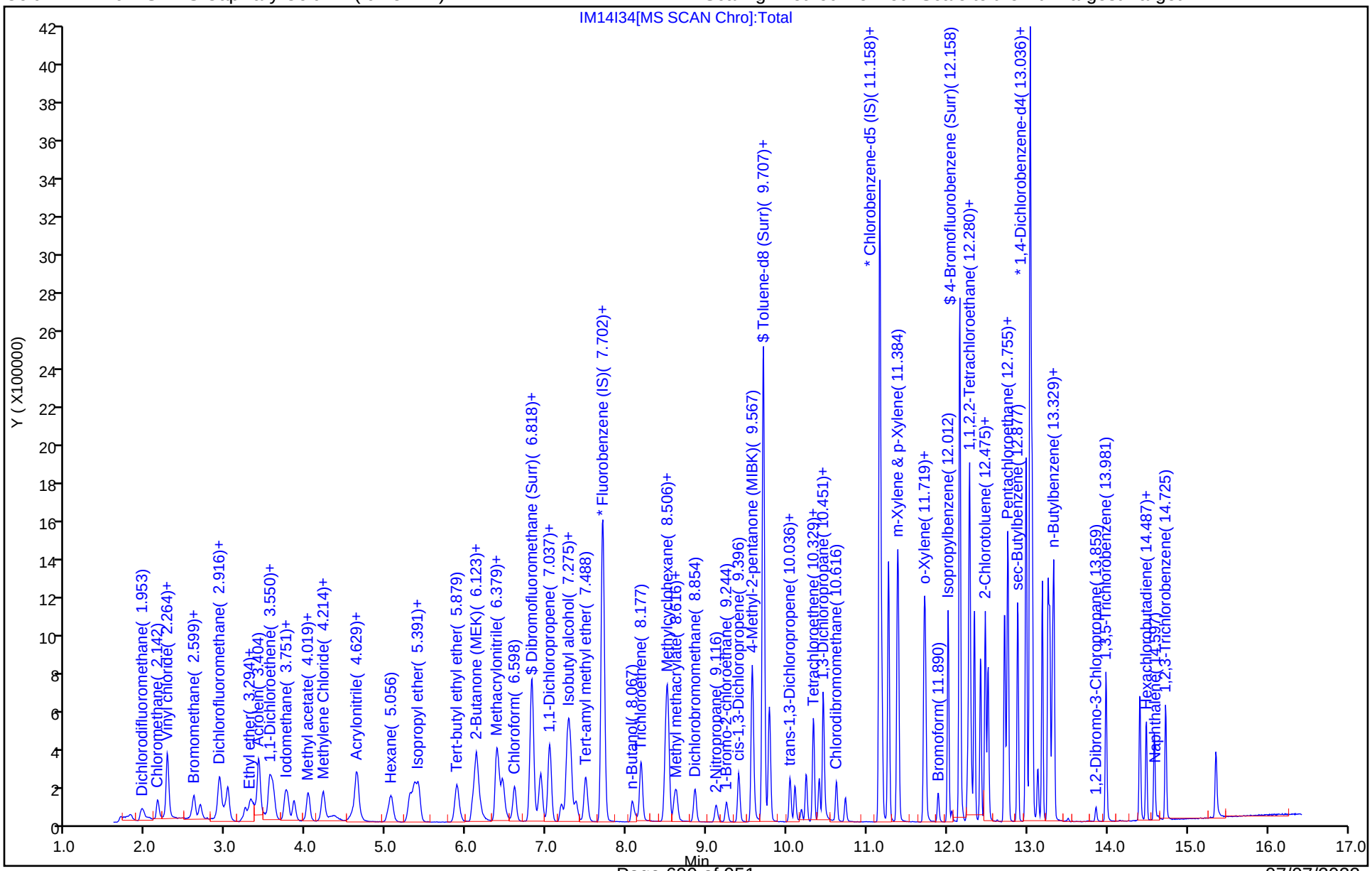
Report Date: 16-Mar-2022 10:11:38 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I34.D

Injection Date:	15-Mar-2022 02:19:30	Instrument ID:	19930	Operator ID:	mec29284
Lims ID:	IC std4			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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

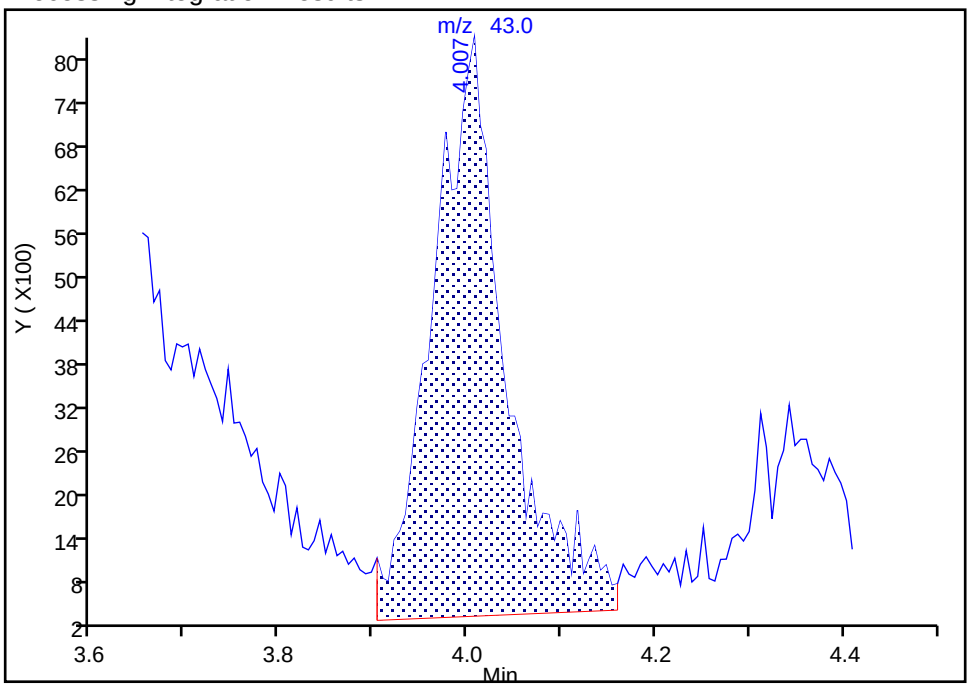
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I34.D
Injection Date: 15-Mar-2022 02:19:30 Instrument ID: 19930
Lims ID: IC std4
Client ID:
Operator ID: mec29284 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

21 Methyl acetate, CAS: 79-20-9

Signal: 1

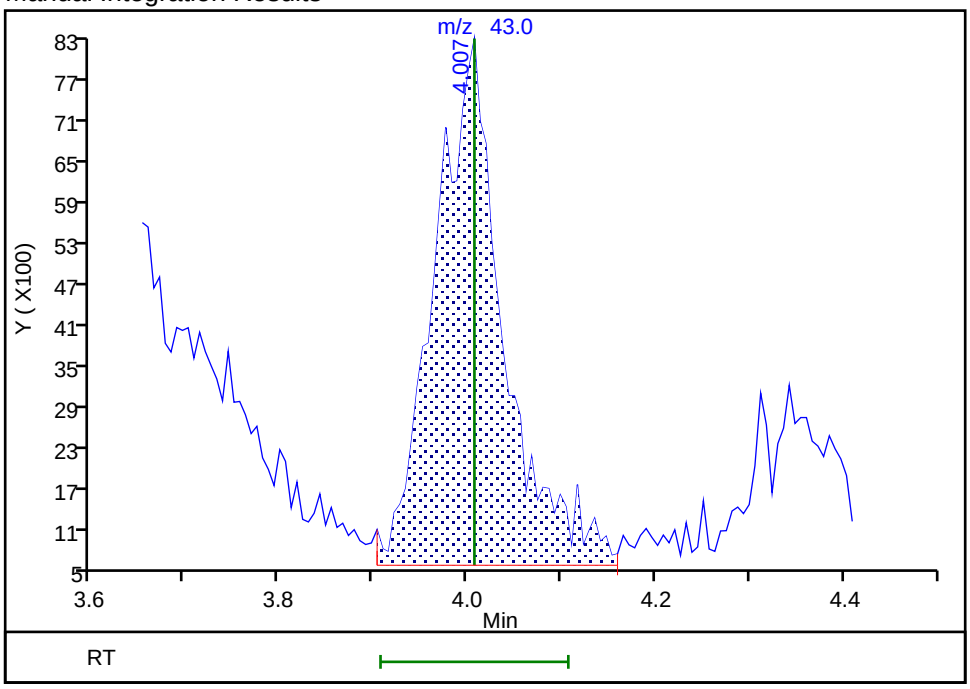
Processing Integration Results

RT: 4.01
Area: 43562
Amount: 2.317954
Amount Units: ug/l



Manual Integration Results

RT: 4.01
Area: 39331
Amount: 2.018997
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:23:51
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

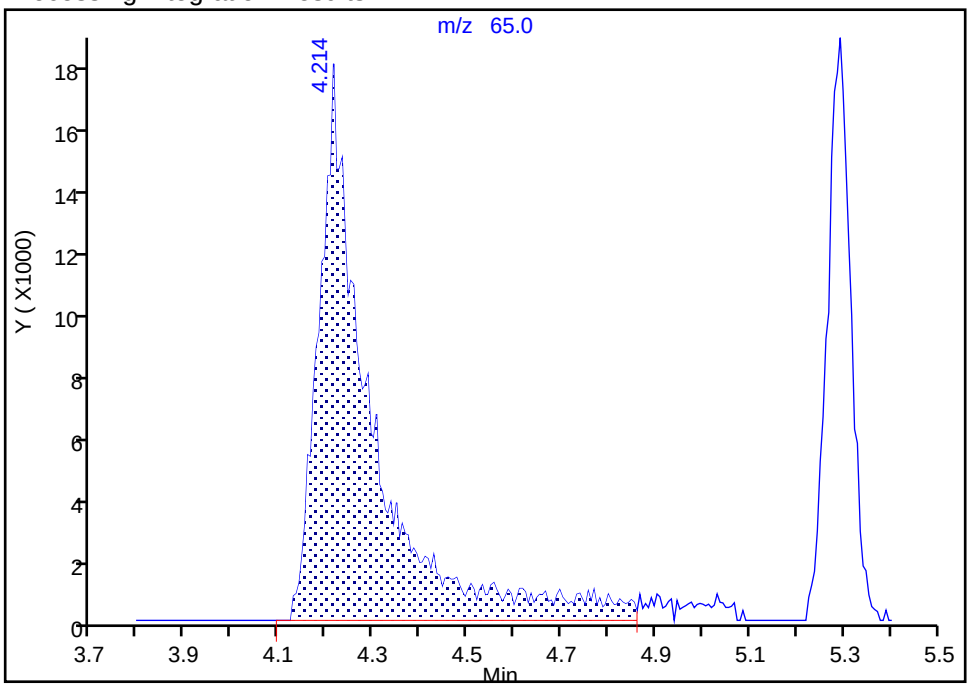
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I34.D
Injection Date: 15-Mar-2022 02:19:30 Instrument ID: 19930
Lims ID: IC std4
Client ID:
Operator ID: mec29284 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 24 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

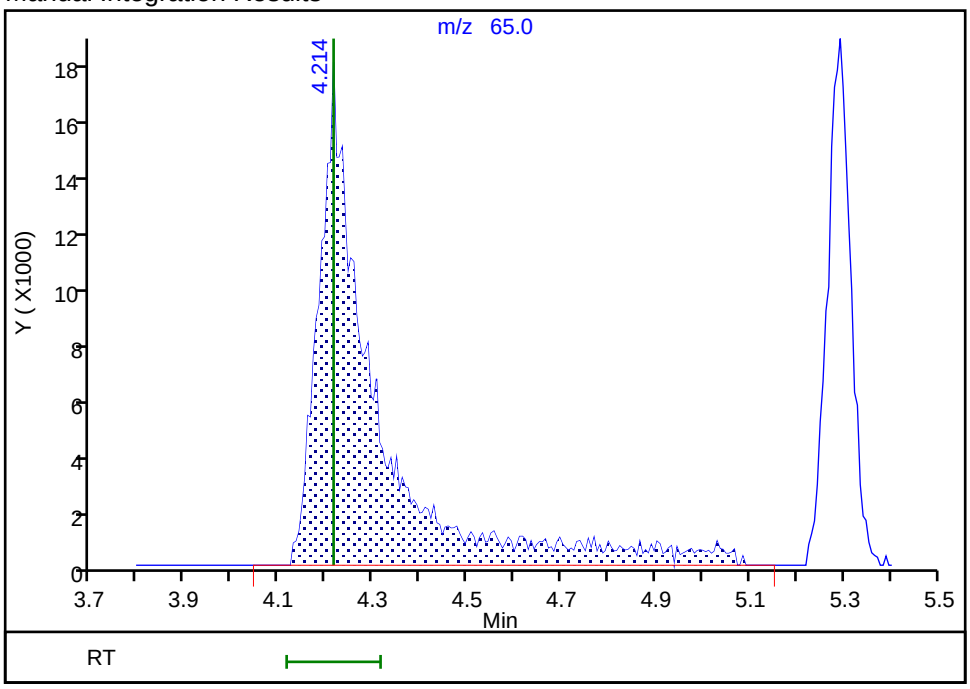
Processing Integration Results

RT: 4.21
Area: 134392
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.21
Area: 140927
Amount: 50.000000
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:24:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

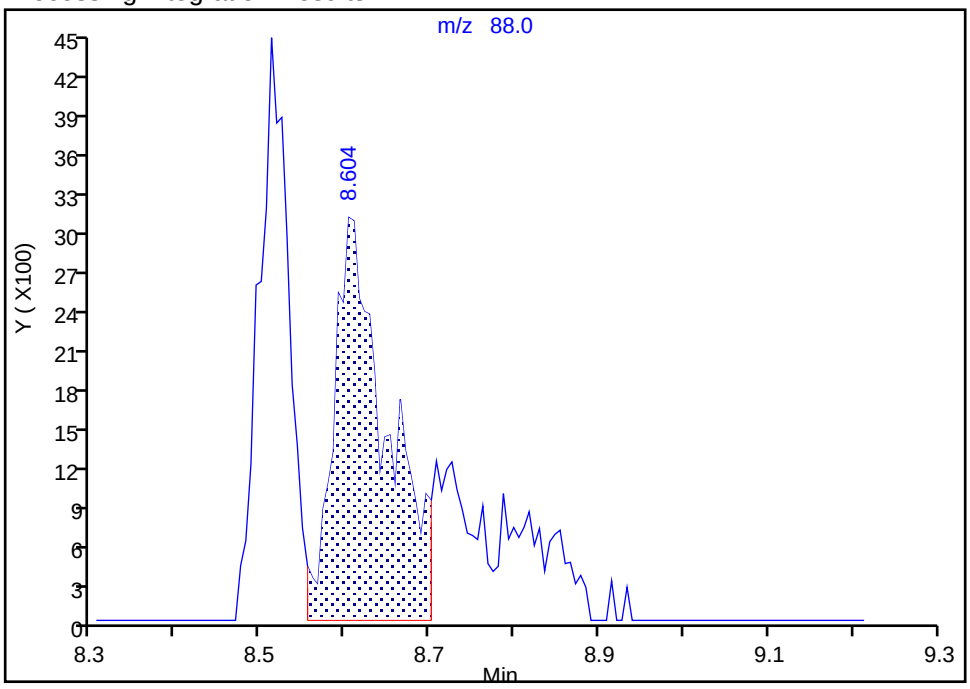
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I34.D
Injection Date: 15-Mar-2022 02:19:30 Instrument ID: 19930
Lims ID: IC std4
Client ID:
Operator ID: mec29284 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

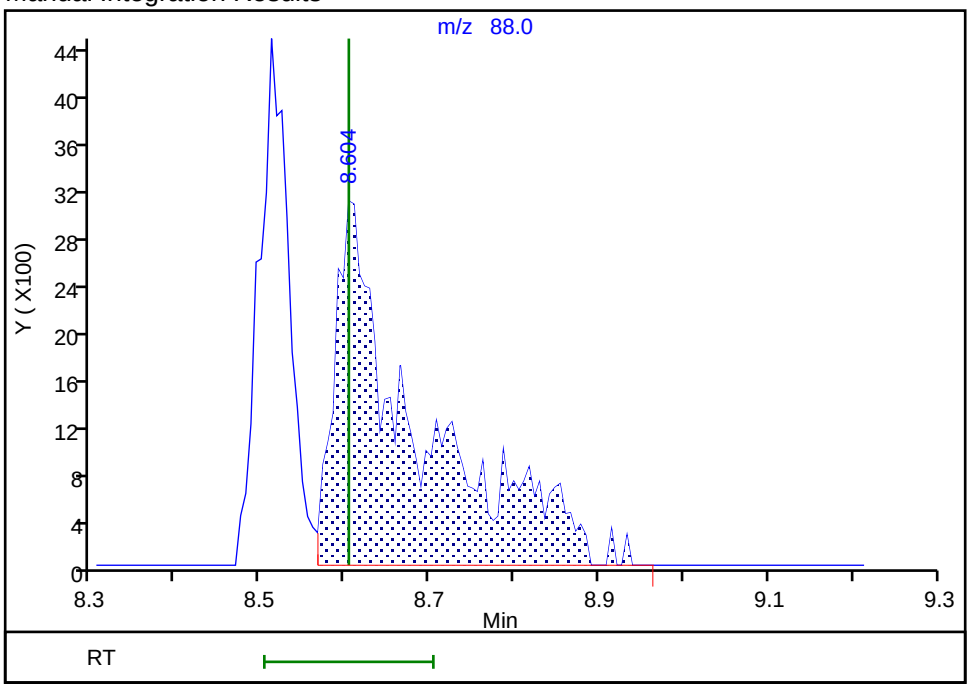
Processing Integration Results

RT: 8.60
Area: 13292
Amount: 77.783149
Amount Units: ug/l



Manual Integration Results

RT: 8.60
Area: 20566
Amount: 106.0150
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:24:35
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I35.D
Lims ID: IC std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 15-Mar-2022 02:40:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052441-016
Misc. Info.: IC STD3
Operator ID: mec29284 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 16-Mar-2022 10:11:42 Calib Date: 15-Mar-2022 03:22:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1676

First Level Reviewer: kephartk Date: 16-Mar-2022 08:27:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.953	1.953	0.000	99	77703	1.00	1.04	
4 Chloromethane	50	2.148	2.142	0.006	98	74938	1.00	0.9691	
5 Vinyl chloride	62	2.276	2.264	0.012	88	82830	1.00	1.01	
6 Butadiene	39	2.276	2.264	0.012	92	84313	1.00	1.06	
7 Bromomethane	94	2.605	2.599	0.006	92	65359	1.00	0.9663	
8 Chloroethane	64	2.684	2.678	0.006	99	48387	1.00	0.9738	
9 Dichlorofluoromethane	67	2.922	2.916	0.006	97	123616	1.00	0.9894	
10 Trichlorofluoromethane	101	2.934	2.928	0.006	97	122112	1.00	1.01	
11 Ethyl ether	59	3.245	3.233	0.012	90	33746	1.00	1.01	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.312	3.312	0.000	84	72278	1.00	1.04	
13 Acrolein	56	3.410	3.404	0.006	98	289265	50.0	50.0	
14 1,1-Dichloroethene	96	3.550	3.544	0.006	97	55619	1.00	1.05	
15 Acetone	43	3.580	3.580	0.000	71	82464	10.0	10.6	M
16 112TCTFE	101	3.593	3.580	0.013	87	59314	1.00	1.07	
17 Iodomethane	142	3.745	3.739	0.006	100	113489	1.00	1.05	
18 Ethyl bromide	108	3.776	3.769	0.007	97	50833	1.00	1.01	
19 Carbon disulfide	76	3.855	3.849	0.006	100	119785	1.00	1.01	
21 Methyl acetate	43	4.013	4.007	0.006	98	22089	1.00	1.05	M
22 3-Chloro-1-propene	41	4.038	4.025	0.013	89	76818	1.00	1.03	
23 Methylene Chloride	84	4.221	4.214	0.007	90	56397	1.00	1.02	
* 24 t-Butyl alcohol-d10 (IS)	65	4.233	4.214	0.019	94	144059	50.0	50.0	M
25 2-Methyl-2-propanol	59	4.342	4.342	0.000	99	49640	20.0	17.2	
26 Acrylonitrile	53	4.568	4.562	0.006	91	23490	2.50	2.55	
27 Methyl tert-butyl ether	73	4.623	4.617	0.006	91	138822	1.00	1.01	
28 trans-1,2-Dichloroethene	96	4.641	4.629	0.012	98	62513	1.00	1.05	
29 Hexane	57	5.068	5.056	0.012	91	76935	1.00	1.06	
31 1,1-Dichloroethane	63	5.294	5.287	0.007	96	105889	1.00	1.03	
32 Isopropyl ether	45	5.354	5.354	0.000	92	163646	1.00	1.02	
33 2-Chloro-1,3-butadiene	53	5.409	5.403	0.006	92	84943	1.00	1.02	
34 Tert-butyl ethyl ether	59	5.891	5.879	0.012	97	167888	1.00	1.03	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.086	6.080	0.006	100	145525	10.0	10.7	
37 cis-1,2-Dichloroethene	96	6.123	6.123	0.000	80	71636	1.00	1.05	
38 2,2-Dichloropropane	77	6.135	6.135	0.000	82	97449	1.00	1.03	
S 35 1,2-Dichloroethene, Total	100				0			2.09	
40 Propionitrile	54	6.190	6.177	0.013	96	75781	20.0	21.8	
42 Methacrylonitrile	67	6.391	6.379	0.012	90	149998	10.0	10.8	
43 Chlorobromomethane	128	6.452	6.446	0.006	83	33730	1.00	1.08	
44 Tetrahydrofuran	71	6.458	6.458	0.000	73	19268	5.00	5.03	
45 Chloroform	83	6.610	6.604	0.006	93	114605	1.00	1.04	
$ 46 Dibromofluoromethane (Surr)	113	6.812	6.812	0.000	94	546963	10.0	10.1	
47 1,1,1-Trichloroethane	97	6.836	6.830	0.006	96	109534	1.00	1.02	
48 Cyclohexane	56	6.927	6.927	0.000	89	97272	1.00	1.08	
50 Carbon tetrachloride	117	7.043	7.037	0.006	96	102183	1.00	1.03	
51 1,1-Dichloropropene	75	7.043	7.037	0.006	93	82831	1.00	1.00	
52 Isobutyl alcohol	41	7.196	7.189	0.007	90	50547	50.0	52.0	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.263	7.257	0.006	71	96046	10.0	9.91	
54 Benzene	78	7.305	7.299	0.006	96	241399	1.00	1.02	
56 1,2-Dichloroethane	62	7.366	7.366	0.000	97	69891	1.00	1.06	
57 Tert-amyl methyl ether	73	7.494	7.488	0.006	99	155828	1.00	1.03	
* 58 Fluorobenzene (IS)	96	7.702	7.695	0.007	99	2010448	10.0	10.0	
59 n-Heptane	43	7.714	7.708	0.006	48	77970	1.00	1.01	
60 n-Butanol	56	8.080	8.073	0.007	89	61521	87.5	79.9	
61 Trichloroethene	95	8.177	8.177	0.000	95	70571	1.00	1.04	
62 Methylcyclohexane	83	8.488	8.482	0.006	91	116232	1.00	1.07	
63 1,2-Dichloropropane	63	8.512	8.500	0.012	72	57297	1.00	1.01	
64 Methyl methacrylate	69	8.604	8.592	0.012	84	27005	1.00	1.03	
65 1,4-Dioxane	88	8.622	8.604	0.018	32	9072	50.0	45.7	M
66 Dibromomethane	93	8.616	8.610	0.006	88	31772	1.00	1.01	
68 Dichlorobromomethane	83	8.854	8.854	0.000	98	76212	1.00	1.02	
69 2-Nitropropane	41	9.116	9.116	0.000	96	41018	5.00	5.03	
72 1-Bromo-2-chloroethane	63	9.250	9.244	0.006	98	54686	1.00	1.02	
73 cis-1,3-Dichloropropene	75	9.402	9.396	0.006	95	88594	1.00	1.00	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	96	369128	10.0	10.3	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2035925	10.0	10.0	
76 Toluene	92	9.780	9.780	0.000	97	161808	1.00	1.02	
78 trans-1,3-Dichloropropene	75	10.043	10.036	0.007	93	70803	1.00	1.00	
S 77 1,3-Dichloropropene, Total	100				0			2.00	
79 Ethyl methacrylate	69	10.104	10.097	0.007	88	54614	1.00	0.99	
80 1,1,2-Trichloroethane	97	10.244	10.244	0.000	89	46767	1.00	1.08	
81 Tetrachloroethene	166	10.335	10.329	0.006	97	94610	1.00	1.04	
82 1,3-Dichloropropane	76	10.402	10.402	0.000	90	71340	1.00	1.02	
83 2-Hexanone	43	10.457	10.451	0.006	97	237649	10.0	9.88	
85 Chlorodibromomethane	129	10.616	10.616	0.000	90	57407	1.00	0.9773	
86 Ethylene Dibromide	107	10.731	10.731	0.000	97	43335	1.00	1.03	
* 87 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	84	1674640	10.0	10.0	
88 1-Chlorohexane	91	11.164	11.164	0.000	95	95733	1.00	1.00	
90 Chlorobenzene	112	11.183	11.183	0.000	97	194153	1.00	1.04	
S 89 Xylenes, Total	106				0			3.07	
91 1,1,1,2-Tetrachloroethane	131	11.268	11.268	0.000	93	70523	1.00	1.02	
92 Ethylbenzene	91	11.268	11.268	0.000	98	321428	1.00	1.03	
93 m-Xylene & p-Xylene	106	11.384	11.384	0.000	99	262497	2.00	2.05	
94 o-Xylene	106	11.713	11.713	0.000	96	128931	1.00	1.02	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
95 Styrene	104	11.731	11.731	0.000	95	197567	1.00	1.01	
96 Bromoform	173	11.890	11.890	0.000	98	34732	1.00	0.9600	
97 Isopropylbenzene	105	12.012	12.012	0.000	95	335336	1.00	1.02	
$ 100 4-Bromofluorobenzene (Surr)	95	12.158	12.158	0.000	97	792251	10.0	10.0	
101 1,1,2,2-Tetrachloroethane	83	12.256	12.256	0.000	94	54800	1.00	1.02	
102 Bromobenzene	156	12.274	12.274	0.000	94	87022	1.00	1.02	
103 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	91	124086	10.0	9.60	
104 1,2,3-Trichloropropane	110	12.298	12.298	0.000	79	16398	1.00	1.03	
105 N-Propylbenzene	91	12.341	12.341	0.000	98	379299	1.00	1.02	
106 2-Chlorotoluene	126	12.420	12.414	0.006	98	84829	1.00	1.04	
107 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	95	277155	1.00	1.01	
108 4-Chlorotoluene	126	12.512	12.512	0.000	96	80828	1.00	0.9684	
109 tert-Butylbenzene	134	12.719	12.719	0.000	92	65689	1.00	0.99	
110 Pentachloroethane	167	12.749	12.749	0.000	77	51676	1.00	0.9495	
111 1,2,4-Trimethylbenzene	105	12.762	12.762	0.000	97	282251	1.00	1.02	
112 sec-Butylbenzene	105	12.884	12.877	0.007	94	358710	1.00	1.02	
113 1,3-Dichlorobenzene	146	12.981	12.981	0.000	98	168169	1.00	1.01	
114 4-Isopropyltoluene	119	12.987	12.987	0.000	97	319108	1.00	1.01	
* 115 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	93	1012300	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.054	13.054	0.000	97	167339	1.00	0.9878	
117 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	97	128963	1.00	1.01	
118 Benzyl chloride	126	13.133	13.133	0.000	98	20470	1.00	0.9448	
119 n-Butylbenzene	92	13.280	13.280	0.000	97	139920	1.00	1.00	
120 1,2-Dichlorobenzene	146	13.316	13.316	0.000	98	152809	1.00	1.01	
122 1,2-Dibromo-3-Chloropropane	155	13.865	13.859	0.006	91	8509	1.00	0.99	
123 1,3,5-Trichlorobenzene	180	13.987	13.981	0.006	97	124815	1.00	1.01	
124 1,2,4-Trichlorobenzene	180	14.408	14.408	0.000	93	106675	1.00	1.02	
125 Hexachlorobutadiene	225	14.487	14.487	0.000	96	47822	1.00	1.01	
126 Naphthalene	128	14.590	14.584	0.006	96	179802	1.00	1.01	
127 1,2,3-Trichlorobenzene	180	14.731	14.725	0.006	96	93928	1.00	1.03	
137 2-Methylnaphthalene	142		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
134 Isopropyl alcohol	45		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00038	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00042	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00072	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00004	Amount Added:	5.00	Units: uL	Run Reagent

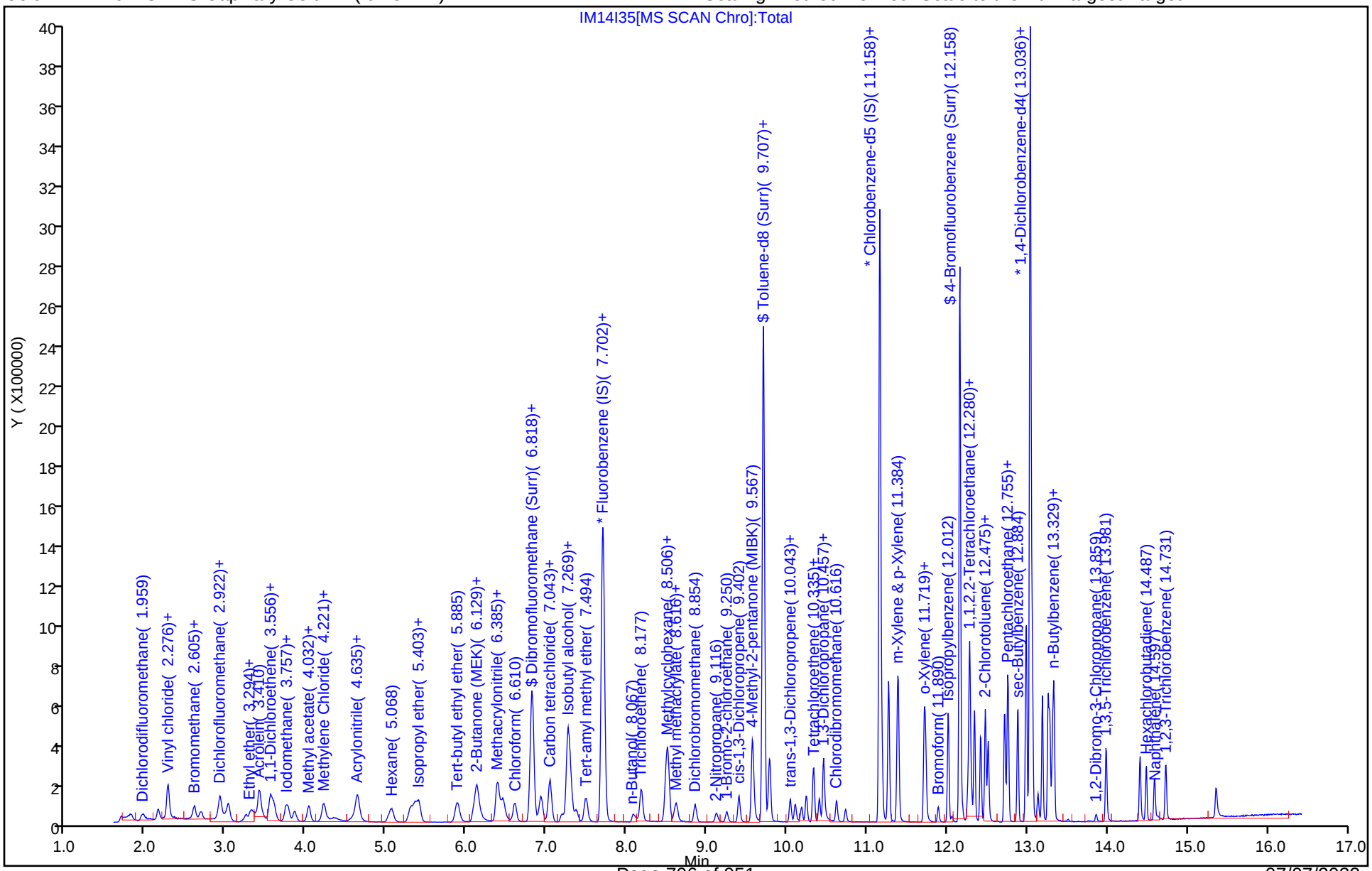
Report Date: 16-Mar-2022 10:11:42 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I35.D

Injection Date:	15-Mar-2022 02:40:30	Instrument ID:	19930	Operator ID:	mec29284
Lims ID:	IC std3			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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

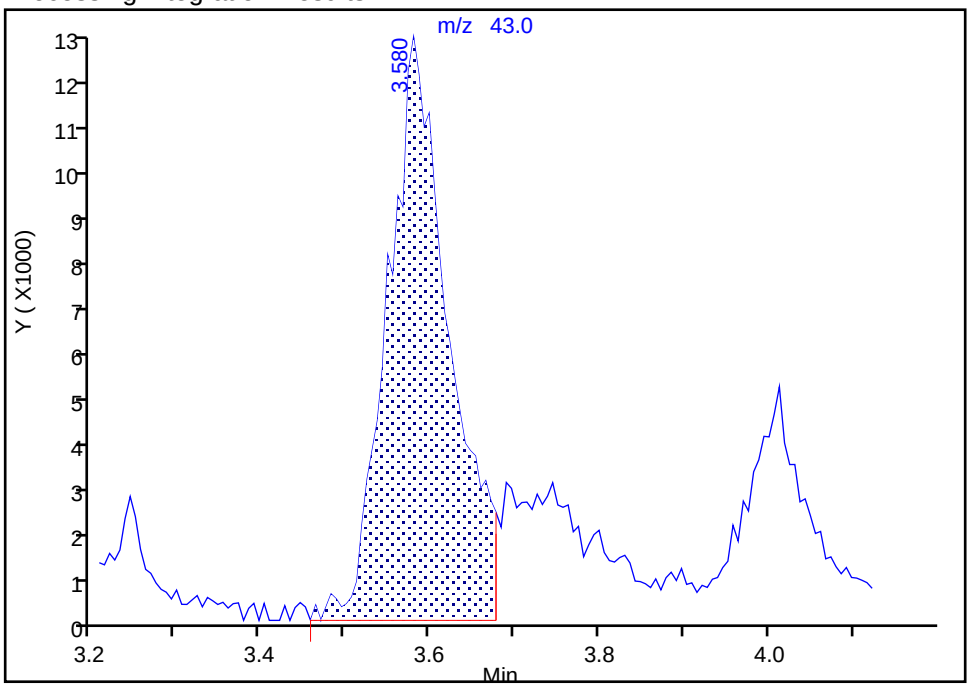
Data File:	\\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I35.D				
Injection Date:	15-Mar-2022 02:40:30	Instrument ID:	19930		
Lims ID:	IC std3				
Client ID:					
Operator ID:	mec29284	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

15 Acetone, CAS: 67-64-1

Signal: 1

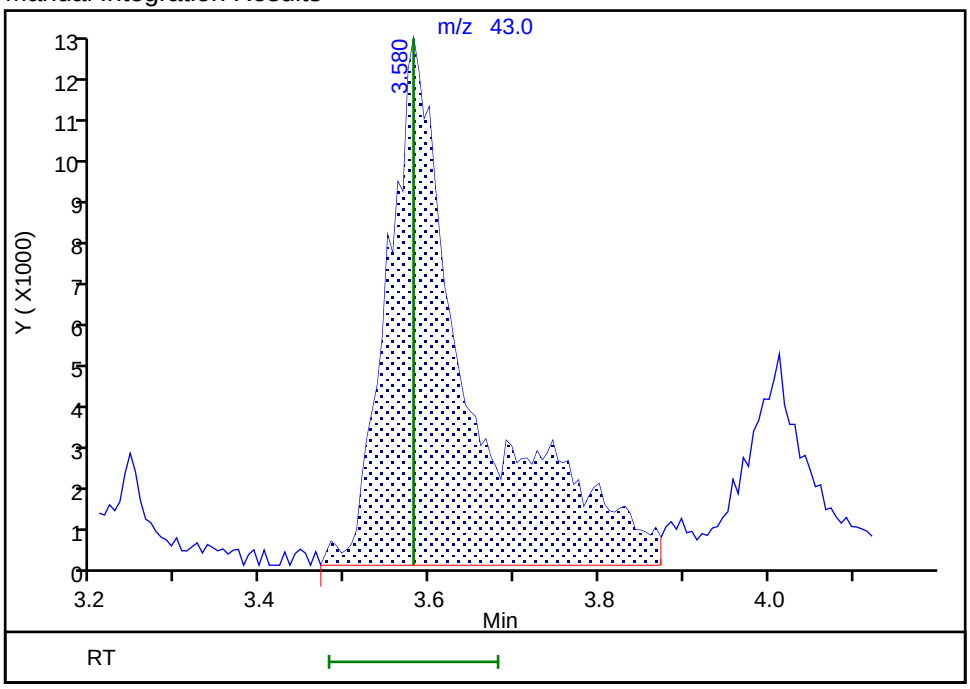
Processing Integration Results

RT: 3.58
Area: 61598
Amount: 8.235946
Amount Units: ug/l



Manual Integration Results

RT: 3.58
Area: 82464
Amount: 10.553022
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:25:53
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

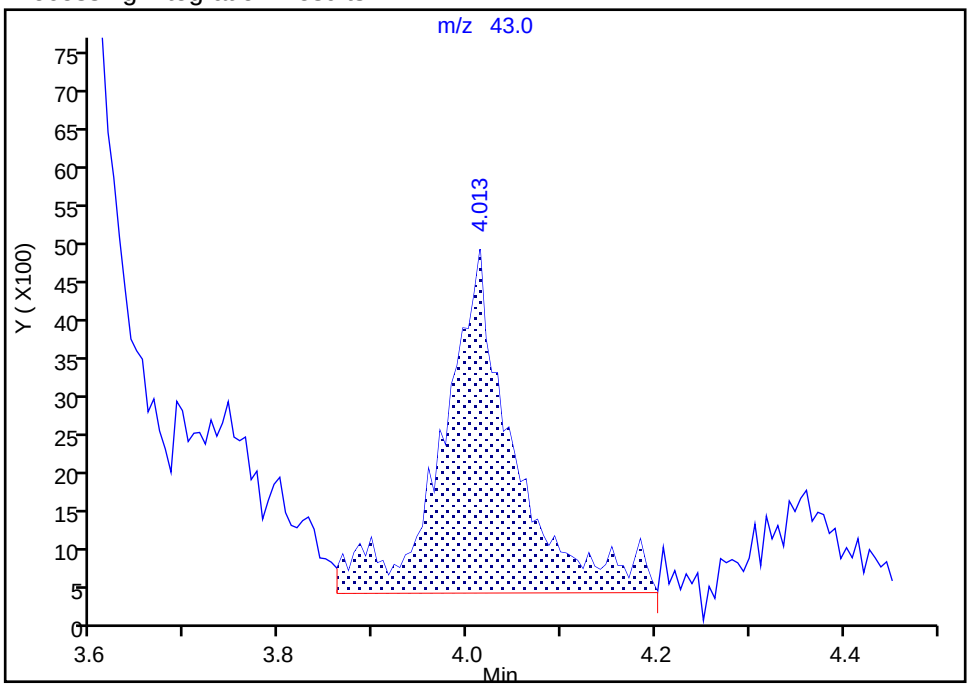
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I35.D
Injection Date: 15-Mar-2022 02:40:30 Instrument ID: 19930
Lims ID: IC std3
Client ID:
Operator ID: mec29284 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

21 Methyl acetate, CAS: 79-20-9

Signal: 1

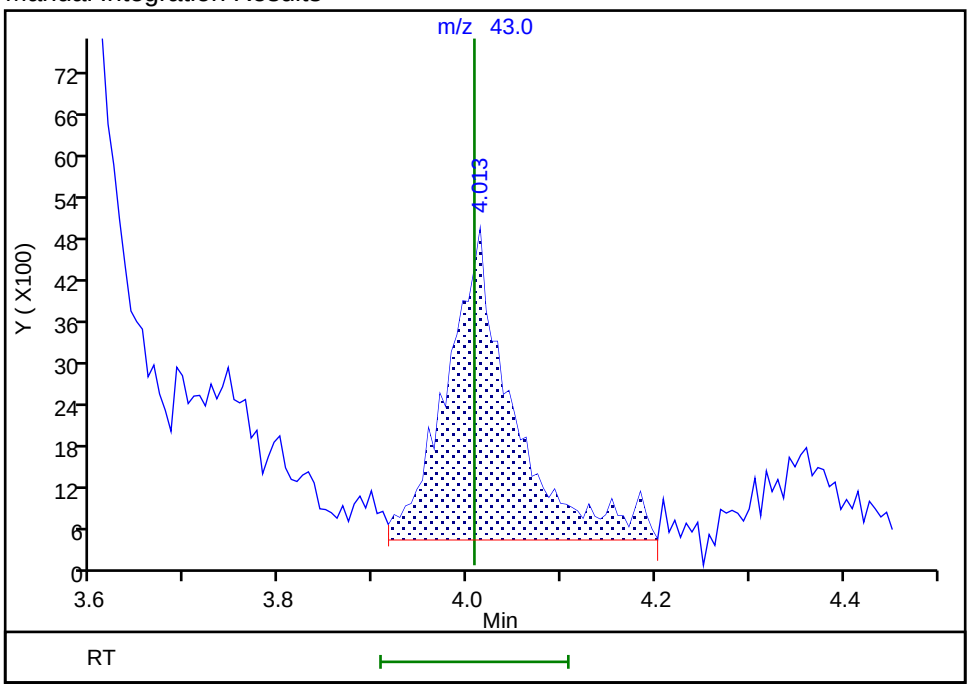
Processing Integration Results

RT: 4.01
Area: 23787
Amount: 1.130695
Amount Units: ug/l



Manual Integration Results

RT: 4.01
Area: 22089
Amount: 1.047542
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:26:17
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

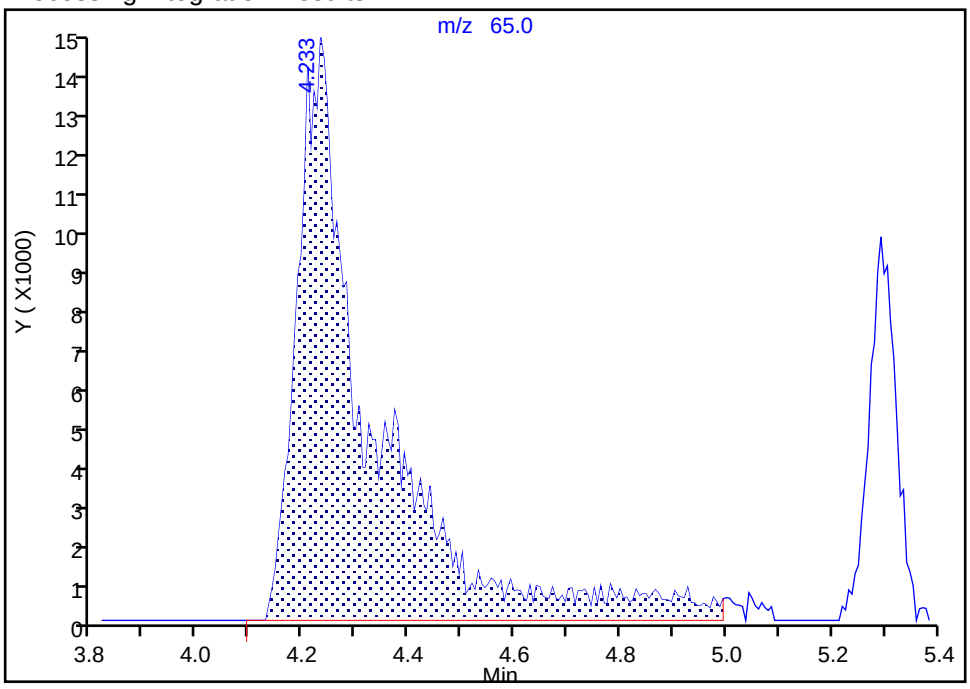
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I35.D
Injection Date: 15-Mar-2022 02:40:30 Instrument ID: 19930
Lims ID: IC std3
Client ID:
Operator ID: mec29284 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 24 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

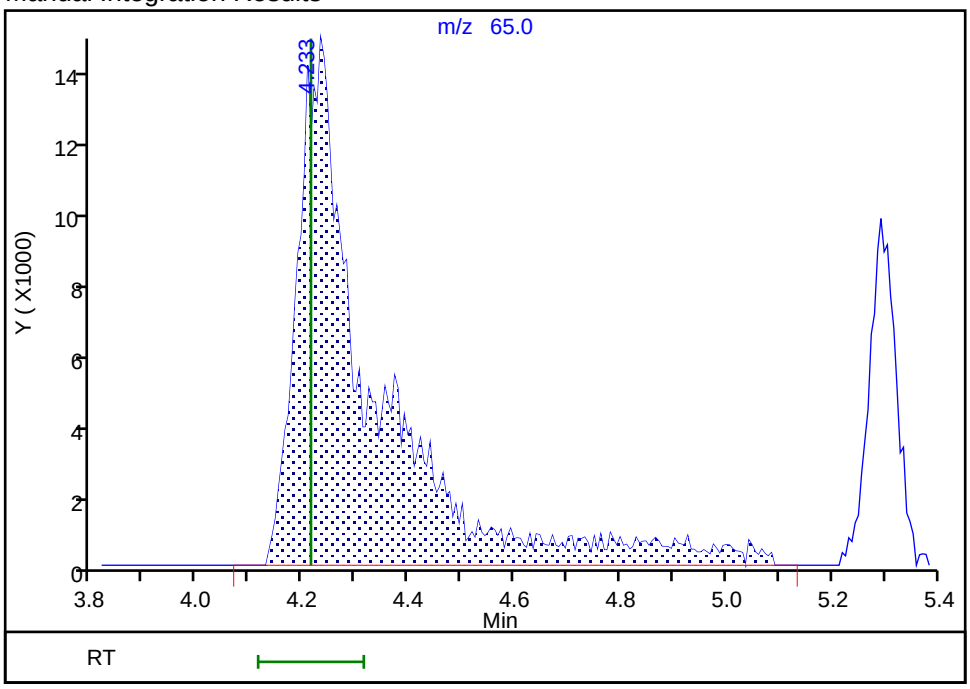
Processing Integration Results

RT: 4.23
Area: 141867
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.23
Area: 144059
Amount: 50.000000
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:26:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

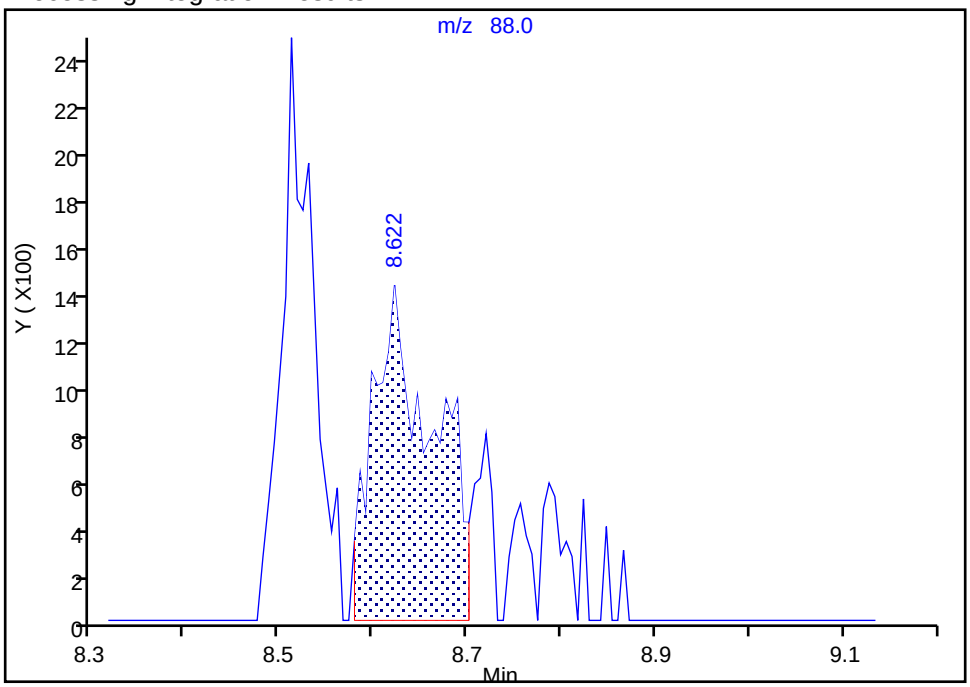
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I35.D
Injection Date: 15-Mar-2022 02:40:30 Instrument ID: 19930
Lims ID: IC std3
Client ID:
Operator ID: mec29284 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

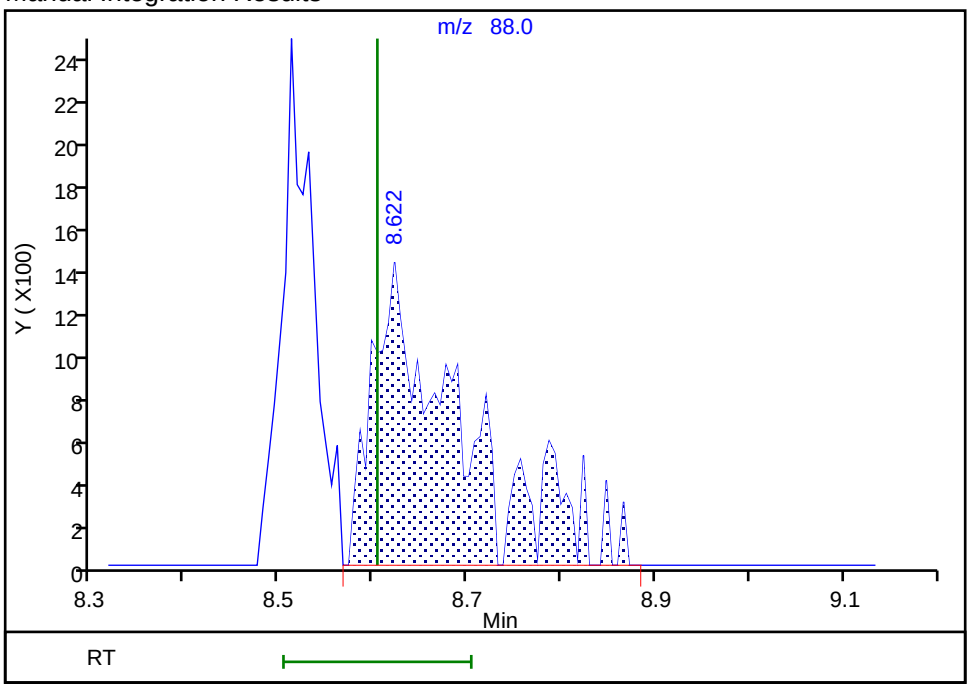
Processing Integration Results

RT: 8.62
Area: 6211
Amount: 41.639336
Amount Units: ug/l



Manual Integration Results

RT: 8.62
Area: 9072
Amount: 45.748252
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:26:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I36.D
Lims ID: IC std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 15-Mar-2022 03:01:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052441-017
Misc. Info.: IC STD2
Operator ID: mec29284 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 16-Mar-2022 10:11:46 Calib Date: 15-Mar-2022 03:22:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1676

First Level Reviewer: kephartk Date: 16-Mar-2022 08:28:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.959	1.953	0.006	99	38342	0.5000	0.5094	
4 Chloromethane	50	2.154	2.142	0.012	99	39601	0.5000	0.5104	
5 Vinyl chloride	62	2.276	2.264	0.012	95	42756	0.5000	0.5217	
6 Butadiene	39	2.276	2.264	0.012	90	40566	0.5000	0.5062	
7 Bromomethane	94	2.599	2.599	0.000	92	34546	0.5000	0.5090	
8 Chloroethane	64	2.678	2.678	0.000	99	25889	0.5000	0.5193	
9 Dichlorofluoromethane	67	2.928	2.916	0.012	96	62146	0.5000	0.4957	
10 Trichlorofluoromethane	101	2.940	2.928	0.012	94	60650	0.5000	0.4978	
11 Ethyl ether	59	3.245	3.233	0.012	91	17004	0.5000	0.5054	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.318	3.312	0.006	90	35242	0.5000	0.5036	
13 Acrolein	56	3.422	3.404	0.018	99	139607	25.0	25.9	
14 1,1-Dichloroethene	96	3.550	3.544	0.006	97	26177	0.5000	0.4946	
15 Acetone	43	3.586	3.580	0.006	96	39948	5.00	5.48	
16 112TCTFE	101	3.605	3.580	0.025	91	26572	0.5000	0.4783	
17 Iodomethane	142	3.751	3.739	0.012	99	51940	0.5000	0.4788	
18 Ethyl bromide	108	3.775	3.769	0.006	99	25501	0.4998	0.5047	
19 Carbon disulfide	76	3.861	3.849	0.012	100	56905	0.5000	0.4796	
21 Methyl acetate	43	4.037	4.007	0.030	25	9060	0.5000	0.3836	
22 3-Chloro-1-propene	41	4.031	4.025	0.006	87	37686	0.5000	0.5026	
23 Methylene Chloride	84	4.214	4.214	0.000	90	26934	0.5000	0.4868	
* 24 t-Butyl alcohol-d10 (IS)	65	4.233	4.214	0.019	93	134454	50.0	50.0	M
25 2-Methyl-2-propanol	59	4.373	4.342	0.031	96	31765	10.0	11.8	
26 Acrylonitrile	53	4.568	4.562	0.006	18	11960	1.25	1.39	M
27 Methyl tert-butyl ether	73	4.635	4.617	0.018	89	66197	0.5000	0.4789	
28 trans-1,2-Dichloroethene	96	4.647	4.629	0.018	96	30157	0.5000	0.5025	
29 Hexane	57	5.062	5.056	0.006	93	34826	0.5000	0.4786	
31 1,1-Dichloroethane	63	5.306	5.287	0.019	96	51123	0.5000	0.4977	
32 Isopropyl ether	45	5.360	5.354	0.006	91	76892	0.5000	0.4794	
33 2-Chloro-1,3-butadiene	53	5.415	5.403	0.012	92	40379	0.5000	0.4827	
34 Tert-butyl ethyl ether	59	5.891	5.879	0.012	96	80698	0.5000	0.4943	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.098	6.080	0.018	100	66323	5.00	5.25	
37 cis-1,2-Dichloroethene	96	6.135	6.123	0.012	80	34237	0.5000	0.4993	
38 2,2-Dichloropropane	77	6.141	6.135	0.006	74	46465	0.5000	0.4877	
S 35 1,2-Dichloroethene, Total	100				0			1.00	
40 Propionitrile	54	6.183	6.177	0.006	97	32816	10.0	10.1	
42 Methacrylonitrile	67	6.391	6.379	0.012	88	65801	5.00	5.09	
43 Chlorobromomethane	128	6.458	6.446	0.012	75	15669	0.5000	0.4983	
44 Tetrahydrofuran	71	6.476	6.458	0.018	66	9313	2.50	2.60	
45 Chloroform	83	6.610	6.604	0.006	93	54271	0.5000	0.4906	
$ 46 Dibromofluoromethane (Surr)	113	6.817	6.812	0.005	94	543314	10.0	9.95	
47 1,1,1-Trichloroethane	97	6.836	6.830	0.006	98	52545	0.5000	0.4897	
48 Cyclohexane	56	6.921	6.927	-0.006	88	41104	0.5000	0.4557	
50 Carbon tetrachloride	117	7.043	7.037	0.006	88	48008	0.5000	0.4838	
51 1,1-Dichloropropene	75	7.049	7.037	0.012	85	39107	0.5000	0.4724	
52 Isobutyl alcohol	41	7.195	7.189	0.006	79	22406	25.0	24.7	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.269	7.257	0.012	81	98965	10.0	10.2	
54 Benzene	78	7.299	7.299	0.000	95	116345	0.5000	0.4894	
56 1,2-Dichloroethane	62	7.378	7.366	0.012	91	32183	0.5000	0.4856	
57 Tert-amyl methyl ether	73	7.488	7.488	0.000	98	74320	0.5000	0.4878	
* 58 Fluorobenzene (IS)	96	7.701	7.695	0.006	99	2017326	10.0	10.0	
59 n-Heptane	43	7.720	7.708	0.012	37	38570	0.5000	0.4962	
60 n-Butanol	56	8.085	8.073	0.012	90	31832	43.8	44.3	
61 Trichloroethene	95	8.183	8.177	0.006	94	32974	0.5000	0.4828	
62 Methylcyclohexane	83	8.494	8.482	0.012	92	50397	0.5000	0.4627	
63 1,2-Dichloropropane	63	8.512	8.500	0.012	72	27296	0.5000	0.4792	
64 Methyl methacrylate	69	8.598	8.592	0.006	84	13137	0.5000	0.5359	
65 1,4-Dioxane	88	8.634	8.604	0.030	31	4908	25.0	26.5	M
66 Dibromomethane	93	8.622	8.610	0.012	92	16746	0.5000	0.5312	
68 Dichlorobromomethane	83	8.860	8.854	0.006	98	36200	0.5000	0.4813	
69 2-Nitropropane	41	9.116	9.116	0.000	97	19475	2.50	2.56	
72 1-Bromo-2-chloroethane	63	9.250	9.244	0.006	97	25181	0.5000	0.4672	
73 cis-1,3-Dichloropropene	75	9.402	9.396	0.006	95	41097	0.5000	0.4640	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	96	175115	5.00	5.24	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2034623	10.0	9.98	
76 Toluene	92	9.780	9.780	0.000	97	78723	0.5000	0.4983	
78 trans-1,3-Dichloropropene	75	10.042	10.036	0.006	92	33885	0.5000	0.4775	
S 77 1,3-Dichloropropene, Total	100				0			0.9415	
79 Ethyl methacrylate	69	10.109	10.097	0.012	87	26333	0.5000	0.4785	
80 1,1,2-Trichloroethane	97	10.244	10.244	0.000	92	22015	0.5000	0.5085	
81 Tetrachloroethene	166	10.335	10.329	0.006	97	44469	0.5000	0.4895	
82 1,3-Dichloropropane	76	10.408	10.402	0.006	90	34333	0.5000	0.4932	
83 2-Hexanone	43	10.457	10.451	0.006	96	114797	5.00	5.11	
85 Chlorodibromomethane	129	10.622	10.616	0.006	89	28417	0.5000	0.4838	
86 Ethylene Dibromide	107	10.731	10.731	0.000	99	20990	0.5000	0.4994	
* 87 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	84	1674650	10.0	10.0	
88 1-Chlorohexane	91	11.164	11.164	0.000	94	47652	0.5000	0.4979	
90 Chlorobenzene	112	11.189	11.183	0.006	97	96628	0.5000	0.5168	
S 89 Xylenes, Total	106				0			1.49	
91 1,1,1,2-Tetrachloroethane	131	11.268	11.268	0.000	91	34314	0.5000	0.4969	
92 Ethylbenzene	91	11.274	11.268	0.006	98	156010	0.5000	0.4991	
93 m-Xylene & p-Xylene	106	11.384	11.384	0.000	99	126661	1.00	0.9894	
94 o-Xylene	106	11.713	11.713	0.000	97	63612	0.5000	0.5049	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
95 Styrene	104	11.731	11.731	0.000	95	94656	0.5000	0.4825	
96 Bromoform	173	11.890	11.890	0.000	97	16961	0.5000	0.4688	
97 Isopropylbenzene	105	12.012	12.012	0.000	95	164910	0.5000	0.5015	
$ 100 4-Bromofluorobenzene (Surr)	95	12.158	12.158	0.000	96	788876	10.0	9.98	
101 1,1,2,2-Tetrachloroethane	83	12.255	12.256	-0.001	94	27127	0.5000	0.5087	
102 Bromobenzene	156	12.274	12.274	0.000	93	43168	0.5000	0.5091	
103 trans-1,4-Dichloro-2-butene	53	12.286	12.280	0.006	91	58243	5.00	4.83	
104 1,2,3-Trichloropropane	110	12.304	12.298	0.006	82	8831	0.5000	0.5595	
105 N-Propylbenzene	91	12.341	12.341	0.000	98	185867	0.5000	0.5025	
106 2-Chlorotoluene	126	12.420	12.414	0.006	97	42524	0.5000	0.5229	
107 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	95	140301	0.5000	0.5126	
108 4-Chlorotoluene	126	12.518	12.512	0.006	95	44030	0.5000	0.5299	
109 tert-Butylbenzene	134	12.719	12.719	0.000	92	32989	0.5000	0.5002	
110 Pentachloroethane	167	12.749	12.749	0.000	80	25590	0.5000	0.4723	
111 1,2,4-Trimethylbenzene	105	12.761	12.762	-0.001	97	139673	0.5000	0.5060	
112 sec-Butylbenzene	105	12.883	12.877	0.006	94	175873	0.5000	0.5034	
113 1,3-Dichlorobenzene	146	12.981	12.981	0.000	98	85825	0.5000	0.5198	
114 4-Isopropyltoluene	119	12.987	12.987	0.000	97	159043	0.5000	0.5059	
* 115 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	93	1007739	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.054	13.054	0.000	96	87803	0.5000	0.5206	
117 1,2,3-Trimethylbenzene	120	13.066	13.060	0.006	96	67484	0.5000	0.5292	
118 Benzyl chloride	126	13.139	13.133	0.006	98	9700	0.5000	0.4497	
119 n-Butylbenzene	92	13.280	13.280	0.000	97	67261	0.5000	0.4820	
120 1,2-Dichlorobenzene	146	13.316	13.316	0.000	98	77120	0.5000	0.5124	
122 1,2-Dibromo-3-Chloropropane	155	13.859	13.859	0.000	81	4305	0.5000	0.5047	
123 1,3,5-Trichlorobenzene	180	13.987	13.981	0.006	97	63089	0.5000	0.5117	
124 1,2,4-Trichlorobenzene	180	14.407	14.408	-0.001	94	49430	0.5000	0.4758	
125 Hexachlorobutadiene	225	14.487	14.487	0.000	95	22776	0.5000	0.4834	
126 Naphthalene	128	14.590	14.584	0.006	96	89149	0.5000	0.5016	
127 1,2,3-Trichlorobenzene	180	14.731	14.725	0.006	94	45526	0.5000	0.5004	
137 2-Methylnaphthalene	142		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
134 Isopropyl alcohol	45		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00038	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00042	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00072	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00004	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 16-Mar-2022 10:11:47 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I36.D

Injection Date: 15-Mar-2022 03:01:30 Instrument ID: 19930 Operator ID: mec29284

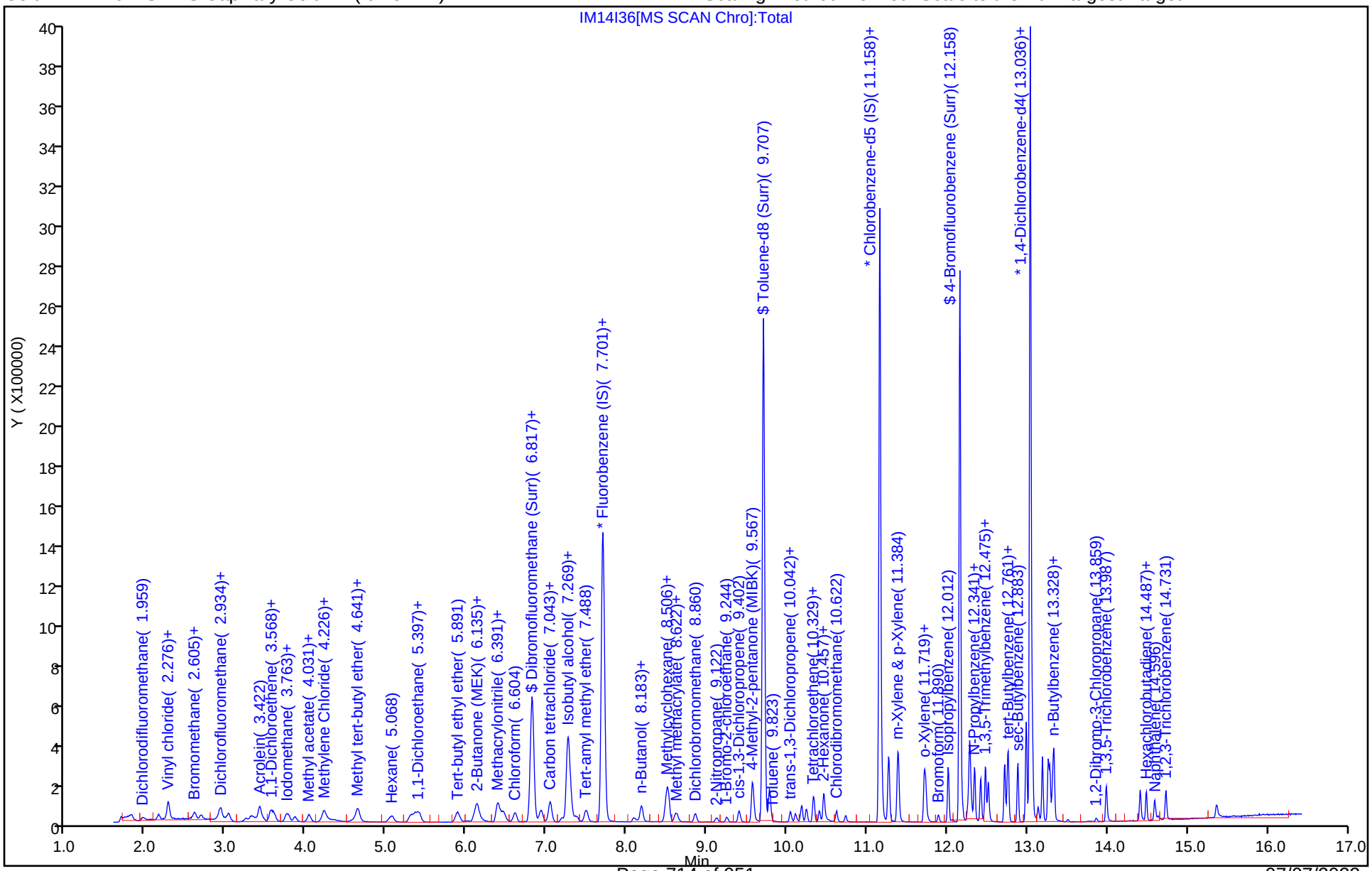
Lims ID: IC std2 Worklist Smp#: 17

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

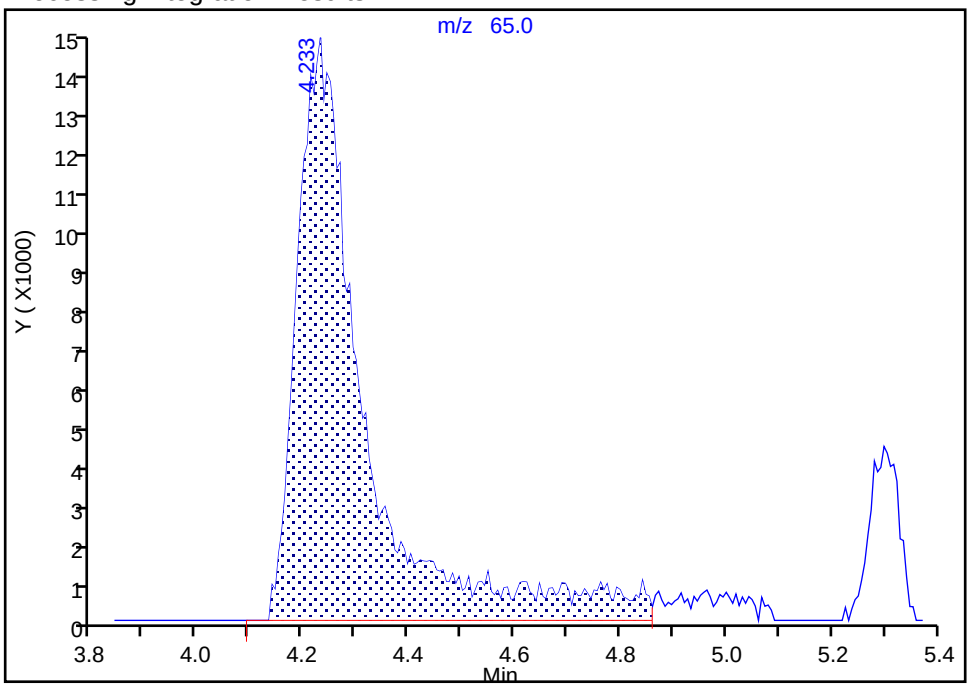
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I36.D
Injection Date: 15-Mar-2022 03:01:30 Instrument ID: 19930
Lims ID: IC std2
Client ID:
Operator ID: mec29284 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 24 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

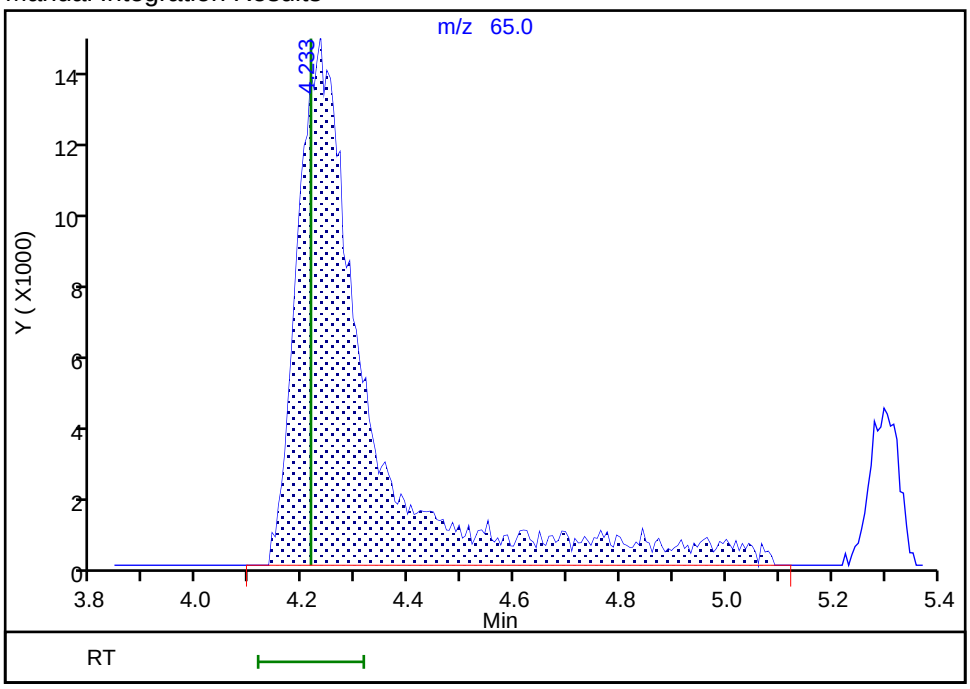
Processing Integration Results

RT: 4.23
Area: 127672
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.23
Area: 134454
Amount: 50.000000
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:27:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

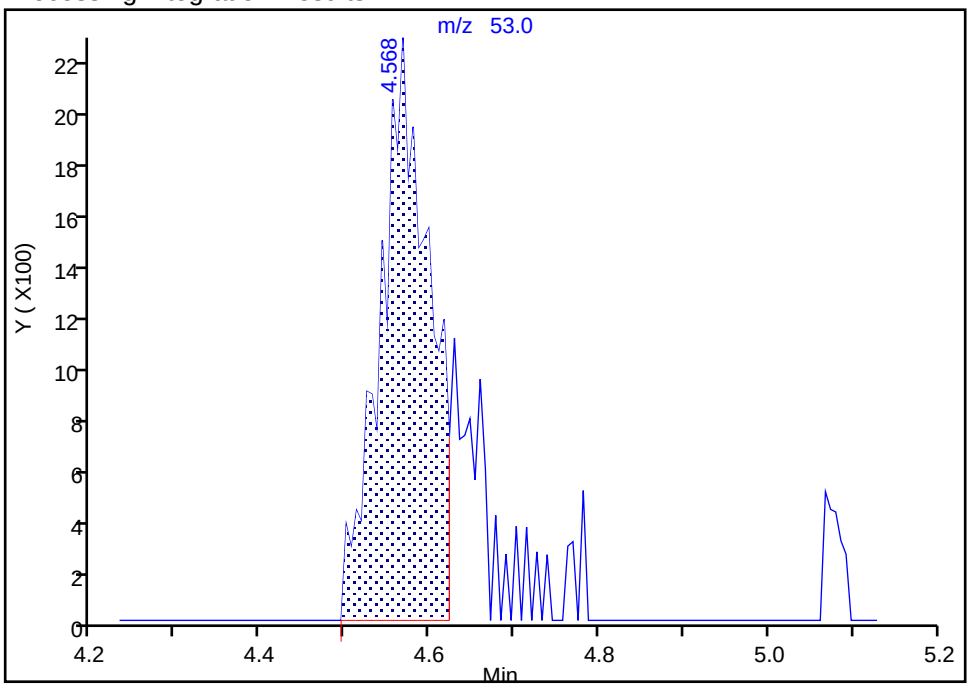
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I36.D
Injection Date: 15-Mar-2022 03:01:30 Instrument ID: 19930
Lims ID: IC std2
Client ID:
Operator ID: mec29284 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

26 Acrylonitrile, CAS: 107-13-1

Signal: 1

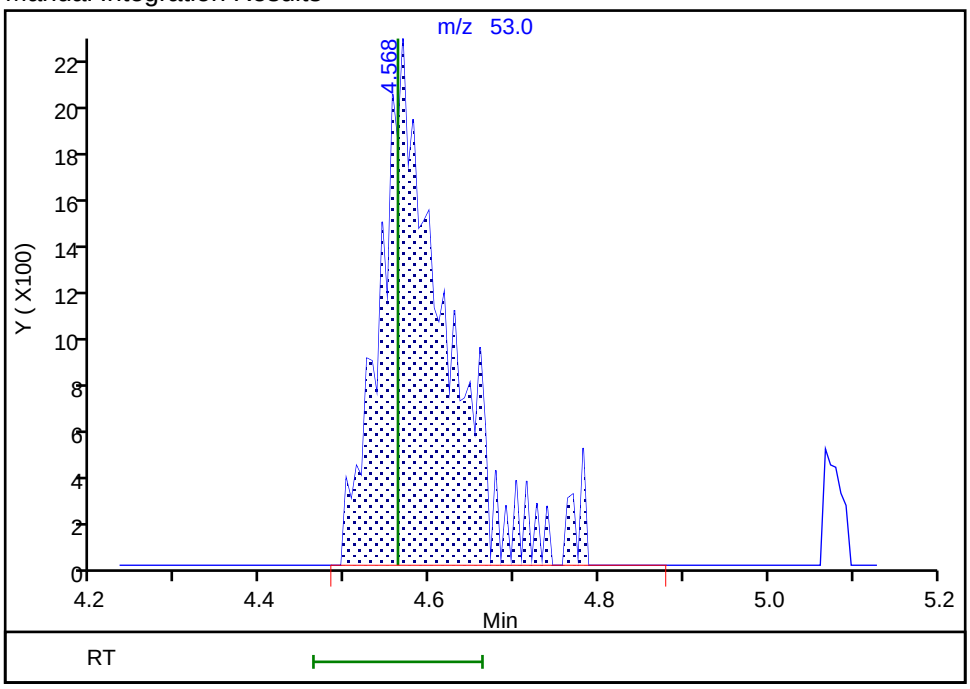
Processing Integration Results

RT: 4.57
Area: 8930
Amount: 1.142354
Amount Units: ug/l



Manual Integration Results

RT: 4.57
Area: 11960
Amount: 1.393316
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:27:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

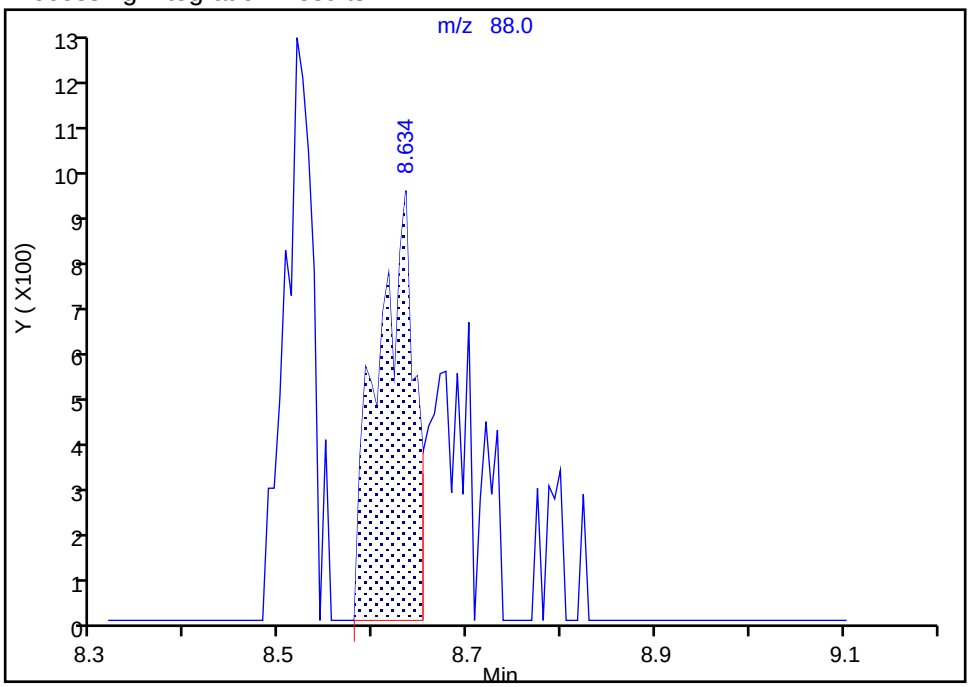
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I36.D
Injection Date: 15-Mar-2022 03:01:30 Instrument ID: 19930
Lims ID: IC std2
Client ID:
Operator ID: mec29284 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

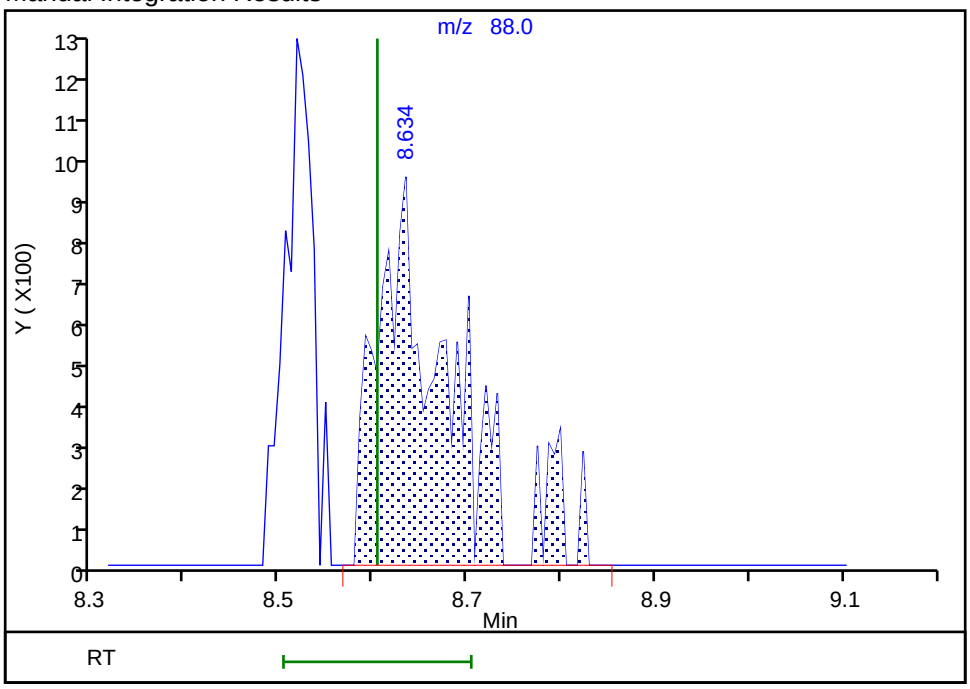
Processing Integration Results

RT: 8.63
Area: 2537
Amount: 24.612667
Amount Units: ug/l



Manual Integration Results

RT: 8.63
Area: 4908
Amount: 26.518117
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:27:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D
Lims ID: IC std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 15-Mar-2022 03:22:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052441-018
Misc. Info.: IC STD1
Operator ID: mec29284 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 16-Mar-2022 10:11:50 Calib Date: 15-Mar-2022 03:22:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1676

First Level Reviewer: kephartk Date: 16-Mar-2022 08:29:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.947	1.953	-0.006	97	12174	0.2000	0.1614	
4 Chloromethane	50	2.154	2.142	0.012	99	17202	0.2000	0.2212	
5 Vinyl chloride	62	2.270	2.264	0.006	89	15454	0.2000	0.1881	
6 Butadiene	39	2.264	2.264	0.000	97	15233	0.2000	0.1897	
7 Bromomethane	94	2.599	2.599	0.000	92	14324	0.2000	0.2106	
8 Chloroethane	64	2.678	2.678	0.000	98	9614	0.2000	0.1924	
9 Dichlorofluoromethane	67	2.916	2.916	0.000	95	26658	0.2000	0.2122	
10 Trichlorofluoromethane	101	2.928	2.928	0.000	50	22113	0.2000	0.1811	
11 Ethyl ether	59	3.245	3.233	0.012	85	6784	0.2000	0.2012	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.312	3.312	0.000	89	14515	0.2000	0.2070	
13 Acrolein	56	3.422	3.404	0.018	99	62205	10.0	9.96	
14 1,1-Dichloroethene	96	3.550	3.544	0.006	98	10662	0.2000	0.2010	
15 Acetone	43	3.580	3.580	0.000	72	20231	2.00	2.40	
16 112TCTFE	101	3.593	3.580	0.013	58	10208	0.2000	0.1833	
17 Iodomethane	142	3.751	3.739	0.012	72	22696	0.2000	0.2088	M
18 Ethyl bromide	108	3.775	3.769	0.006	95	10187	0.1999	0.2012	
19 Carbon disulfide	76	3.855	3.849	0.006	99	23883	0.2000	0.2008	
21 Methyl acetate	43	4.025	4.007	0.018	27	7489	0.2000	0.2348	
22 3-Chloro-1-propene	41	4.032	4.025	0.007	84	15242	0.2000	0.2028	
23 Methylene Chloride	84	4.227	4.214	0.013	82	12056	0.2000	0.2174	
* 24 t-Butyl alcohol-d10 (IS)	65	4.257	4.214	0.043	66	155632	50.0	50.0	
25 2-Methyl-2-propanol	59	4.373	4.342	0.031	29	12109	4.00	3.88	
26 Acrylonitrile	53	4.598	4.562	0.036	22	4395	0.5000	0.4423	M
27 Methyl tert-butyl ether	73	4.629	4.617	0.012	92	30498	0.2000	0.2202	
28 trans-1,2-Dichloroethene	96	4.647	4.629	0.018	95	12680	0.2000	0.2108	M
29 Hexane	57	5.056	5.056	0.000	91	12983	0.2000	0.1780	
31 1,1-Dichloroethane	63	5.300	5.287	0.013	95	20843	0.2000	0.2024	
32 Isopropyl ether	45	5.354	5.354	0.000	90	32182	0.2000	0.2002	
33 2-Chloro-1,3-butadiene	53	5.415	5.403	0.012	93	17211	0.2000	0.2053	
34 Tert-butyl ethyl ether	59	5.885	5.879	0.006	97	33885	0.2000	0.2071	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.104	6.080	0.024	99	27415	2.00	1.87	
37 cis-1,2-Dichloroethene	96	6.135	6.123	0.012	63	15432	0.2000	0.2245	M
38 2,2-Dichloropropane	77	6.123	6.135	-0.012	73	18690	0.2000	0.1957	
S 35 1,2-Dichloroethene, Total	100				0			0.4353	
40 Propionitrile	54	6.190	6.177	0.013	97	13732	4.00	3.66	
42 Methacrylonitrile	67	6.397	6.379	0.018	85	29038	2.00	1.94	M
43 Chlorobromomethane	128	6.458	6.446	0.012	72	6487	0.2000	0.2058	M
44 Tetrahydrofuran	71	6.470	6.458	0.012	57	4086	1.00	0.9872	
45 Chloroform	83	6.610	6.604	0.006	90	23341	0.2000	0.2105	
$ 46 Dibromofluoromethane (Surr)	113	6.818	6.812	0.006	94	547531	10.0	10.0	
47 1,1,1-Trichloroethane	97	6.830	6.830	0.000	56	22284	0.2000	0.2072	
48 Cyclohexane	56	6.927	6.927	0.000	93	16256	0.2000	0.1798	
50 Carbon tetrachloride	117	7.049	7.037	0.012	95	19333	0.2000	0.1944	
51 1,1-Dichloropropene	75	7.037	7.037	0.000	92	17366	0.2000	0.2093	
52 Isobutyl alcohol	41	7.202	7.189	0.013	92	11490	10.0	10.9	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.269	7.257	0.012	67	100556	10.0	10.3	
54 Benzene	78	7.299	7.299	0.000	94	49374	0.2000	0.2072	
56 1,2-Dichloroethane	62	7.366	7.366	0.000	96	14632	0.2000	0.2203	
57 Tert-amyl methyl ether	73	7.494	7.488	0.006	98	31737	0.2000	0.2079	
* 58 Fluorobenzene (IS)	96	7.695	7.695	0.000	99	2021821	10.0	10.0	
59 n-Heptane	43	7.714	7.708	0.006	37	16268	0.2000	0.2088	
60 n-Butanol	56	8.116	8.073	0.043	68	10801	17.5	13.0	
61 Trichloroethene	95	8.183	8.177	0.006	93	14385	0.2000	0.2102	M
62 Methylcyclohexane	83	8.482	8.482	0.000	90	19770	0.2000	0.1811	
63 1,2-Dichloropropane	63	8.500	8.500	0.000	72	10875	0.2000	0.1905	
64 Methyl methacrylate	69	8.604	8.592	0.012	91	4900	0.2000	0.1727	M
65 1,4-Dioxane	88	8.634	8.604	0.030	28	447	10.0	2.09	M
66 Dibromomethane	93	8.622	8.610	0.012	90	6467	0.2000	0.2047	
68 Dichlorobromomethane	83	8.854	8.854	0.000	97	14496	0.2000	0.1923	
69 2-Nitropropane	41	9.116	9.116	0.000	96	7975	1.00	0.9047	
72 1-Bromo-2-chloroethane	63	9.244	9.244	0.000	97	10522	0.2000	0.1948	
73 cis-1,3-Dichloropropene	75	9.402	9.396	0.006	96	17322	0.2000	0.1951	
74 4-Methyl-2-pentanone (MIBK)	43	9.573	9.567	0.006	97	66567	2.00	1.72	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2051196	10.0	10.0	
76 Toluene	92	9.786	9.780	0.006	97	32803	0.2000	0.2071	
78 trans-1,3-Dichloropropene	75	10.049	10.036	0.013	93	12263	0.2000	0.1724	
S 77 1,3-Dichloropropene, Total	100				0			0.3675	
79 Ethyl methacrylate	69	10.110	10.097	0.013	83	9480	0.2000	0.1718	
80 1,1,2-Trichloroethane	97	10.238	10.244	-0.006	91	8749	0.2000	0.2016	
81 Tetrachloroethene	166	10.335	10.329	0.006	96	18053	0.2000	0.1982	
82 1,3-Dichloropropane	76	10.408	10.402	0.006	92	13872	0.2000	0.1988	
83 2-Hexanone	43	10.463	10.451	0.012	95	38878	2.00	1.50	
85 Chlorodibromomethane	129	10.616	10.616	0.000	88	11317	0.2000	0.1922	
86 Ethylene Dibromide	107	10.738	10.731	0.007	96	7460	0.2000	0.1770	
* 87 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	84	1678767	10.0	10.0	
88 1-Chlorohexane	91	11.170	11.164	0.006	34	21550	0.2000	0.2246	
90 Chlorobenzene	112	11.183	11.183	0.000	95	36676	0.2000	0.1957	
S 89 Xylenes, Total	106				0			0.5902	
91 1,1,1,2-Tetrachloroethane	131	11.268	11.268	0.000	81	12294	0.2000	0.1776	
92 Ethylbenzene	91	11.274	11.268	0.006	98	62844	0.2000	0.2006	
93 m-Xylene & p-Xylene	106	11.384	11.384	0.000	99	50551	0.4000	0.3939	
94 o-Xylene	106	11.719	11.713	0.006	95	24789	0.2000	0.1963	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
95 Styrene	104	11.737	11.731	0.006	94	37528	0.2000	0.1908	
96 Bromoform	173	11.890	11.890	0.000	95	6223	0.2000	0.1716	
97 Isopropylbenzene	105	12.012	12.012	0.000	95	64175	0.2000	0.1947	
$ 100 4-Bromofluorobenzene (Surr)	95	12.158	12.158	0.000	97	798883	10.0	10.1	
101 1,1,2,2-Tetrachloroethane	83	12.256	12.256	0.000	94	10440	0.2000	0.1946	
102 Bromobenzene	156	12.274	12.274	0.000	93	17078	0.2000	0.2002	
103 trans-1,4-Dichloro-2-butene	53	12.286	12.280	0.006	90	18122	2.00	1.30	
104 1,2,3-Trichloropropane	110	12.304	12.298	0.006	74	2972	0.2000	0.1872	
105 N-Propylbenzene	91	12.341	12.341	0.000	98	73431	0.2000	0.1974	
106 2-Chlorotoluene	126	12.420	12.414	0.006	96	15217	0.2000	0.1860	
107 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	94	52611	0.2000	0.1911	
108 4-Chlorotoluene	126	12.518	12.512	0.006	96	17108	0.2000	0.2047	
109 tert-Butylbenzene	134	12.719	12.719	0.000	92	13616	0.2000	0.2052	
110 Pentachloroethane	167	12.749	12.749	0.000	77	9652	0.2000	0.1771	
111 1,2,4-Trimethylbenzene	105	12.762	12.762	0.000	97	51136	0.2000	0.1842	
112 sec-Butylbenzene	105	12.883	12.877	0.006	94	67649	0.2000	0.1925	
113 1,3-Dichlorobenzene	146	12.987	12.981	0.006	98	31802	0.2000	0.1915	
114 4-Isopropyltoluene	119	12.987	12.987	0.000	97	60230	0.2000	0.1904	
* 115 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	93	1013693	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.054	13.054	0.000	93	35095	0.2000	0.2069	
117 1,2,3-Trimethylbenzene	120	13.066	13.060	0.006	94	25725	0.2000	0.2005	
118 Benzyl chloride	126	13.139	13.133	0.006	95	3627	0.2000	0.1672	
119 n-Butylbenzene	92	13.280	13.280	0.000	96	24766	0.2000	0.1764	
120 1,2-Dichlorobenzene	146	13.316	13.316	0.000	98	28920	0.2000	0.1910	
122 1,2-Dibromo-3-Chloropropane	155	13.865	13.859	0.006	89	1132	0.2000	0.1319	
123 1,3,5-Trichlorobenzene	180	13.987	13.981	0.006	95	22882	0.2000	0.1845	
124 1,2,4-Trichlorobenzene	180	14.414	14.408	0.006	93	19278	0.2000	0.1845	
125 Hexachlorobutadiene	225	14.487	14.487	0.000	93	11228	0.2000	0.2369	
126 Naphthalene	128	14.597	14.584	0.013	97	33257	0.2000	0.1860	
127 1,2,3-Trichlorobenzene	180	14.731	14.725	0.006	93	18681	0.2000	0.2041	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
137 2-Methylnaphthalene	142		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	
134 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_00038	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00042	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00072	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00004	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 16-Mar-2022 10:11:51 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D

Injection Date: 15-Mar-2022 03:22:30 Instrument ID: 19930 Operator ID: mec29284

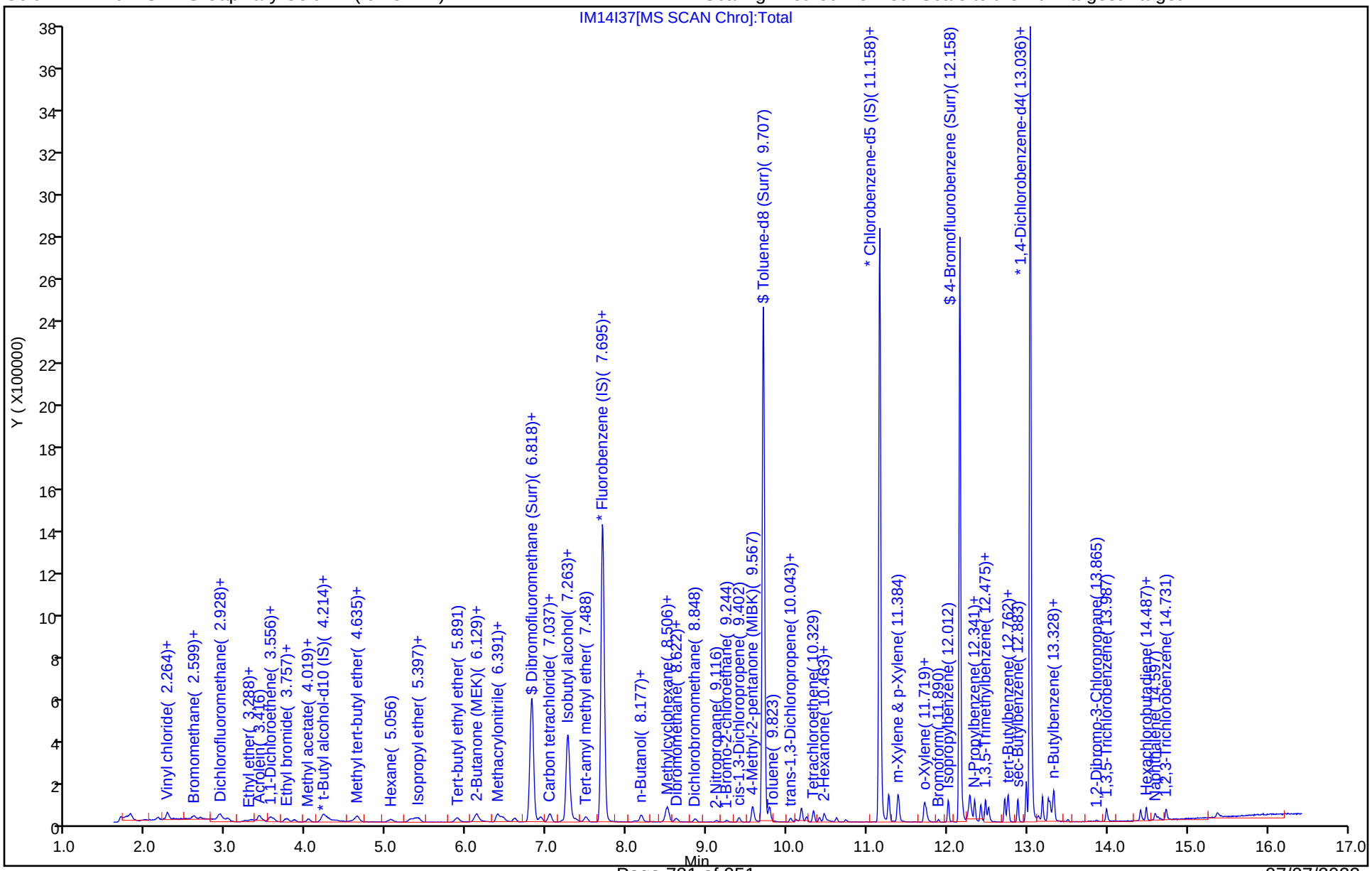
Lims ID: IC std1 Worklist Smp#: 18

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

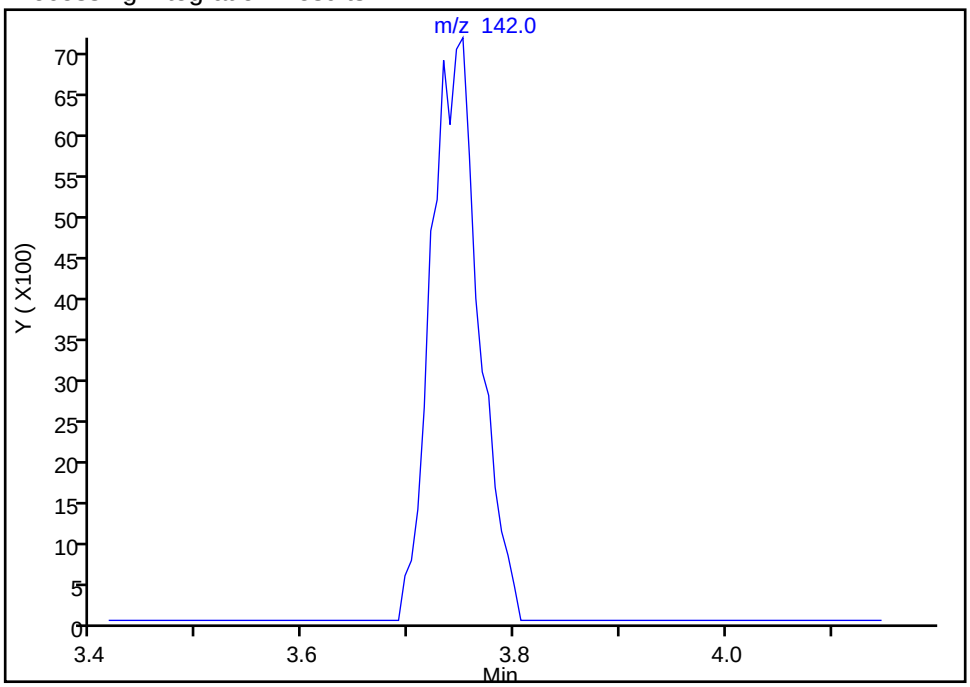
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D
Injection Date: 15-Mar-2022 03:22:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: mec29284 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

17 Iodomethane, CAS: 74-88-4

Signal: 1

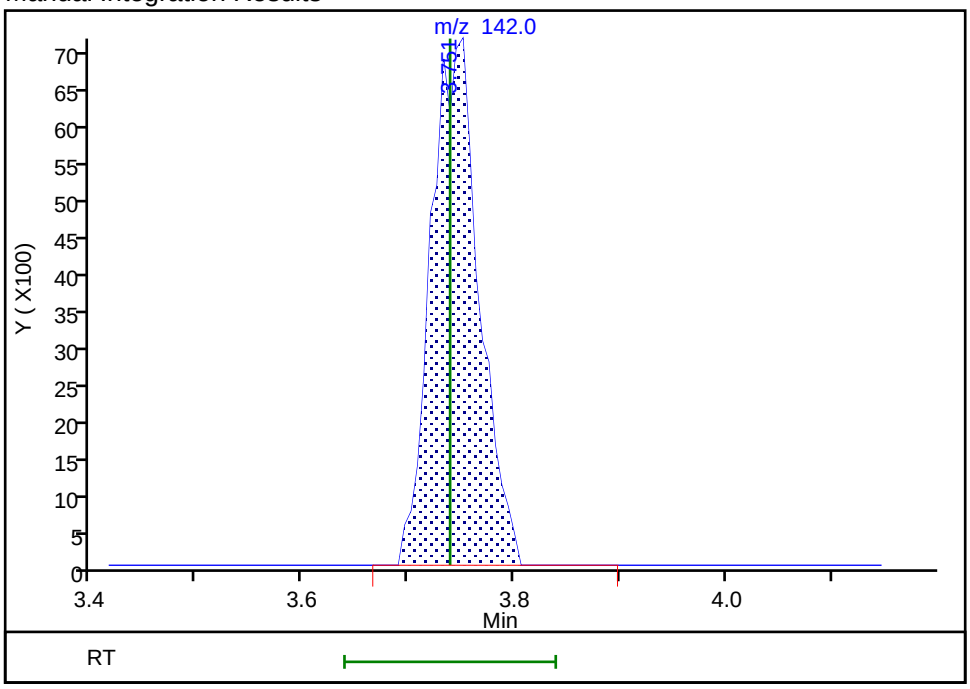
Not Detected
Expected RT: 3.74

Processing Integration Results



Manual Integration Results

RT: 3.75
Area: 22696
Amount: 0.208760
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:28:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

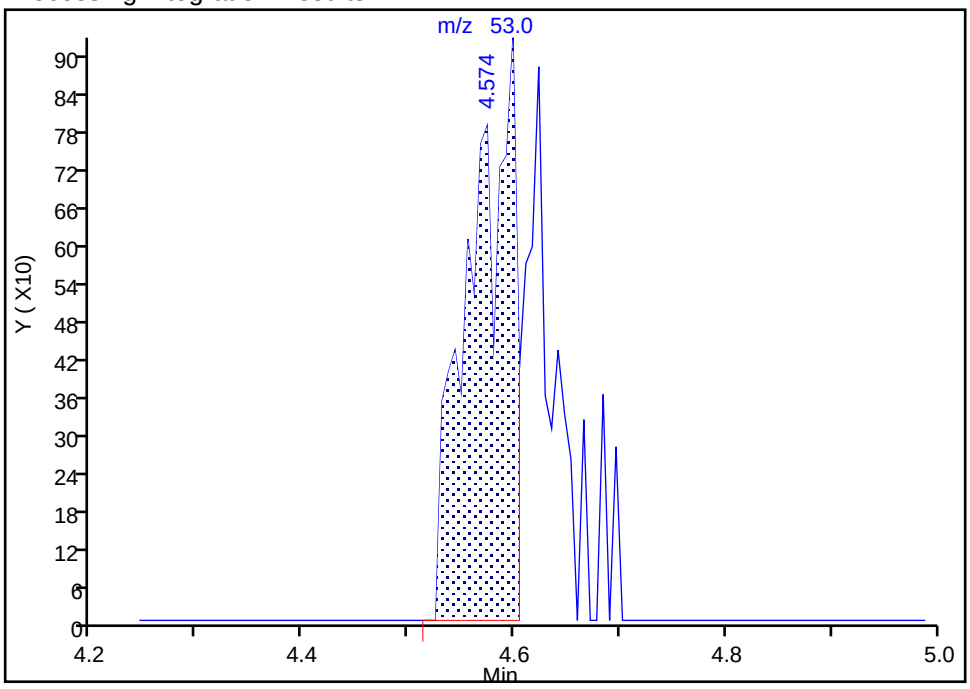
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D
Injection Date: 15-Mar-2022 03:22:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: mec29284 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

26 Acrylonitrile, CAS: 107-13-1

Signal: 1

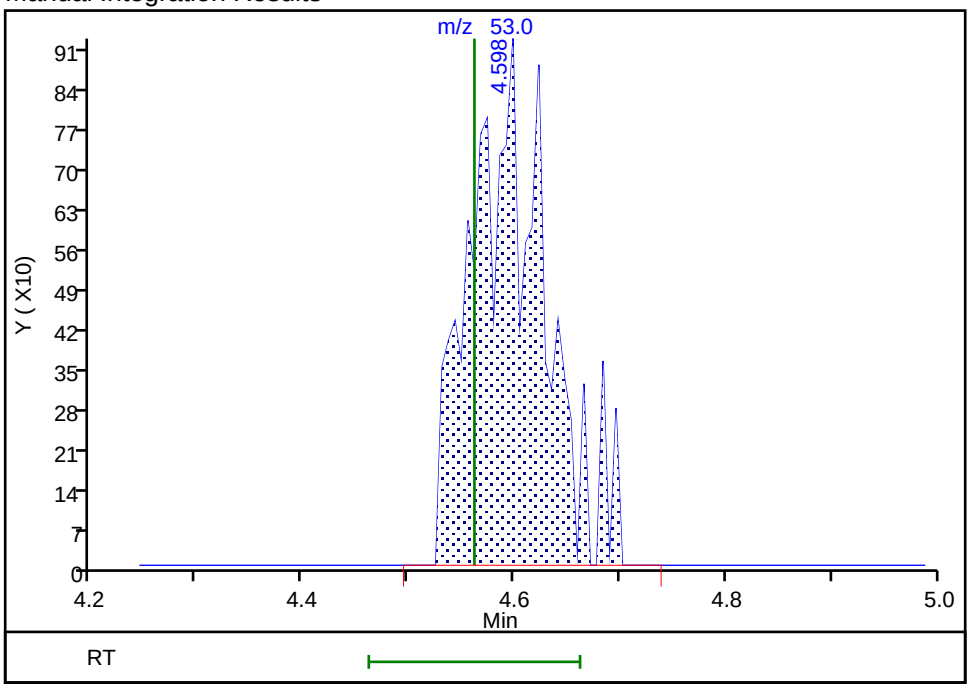
Processing Integration Results

RT: 4.57
Area: 2692
Amount: 0.284888
Amount Units: ug/l



Manual Integration Results

RT: 4.60
Area: 4395
Amount: 0.442336
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:28:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

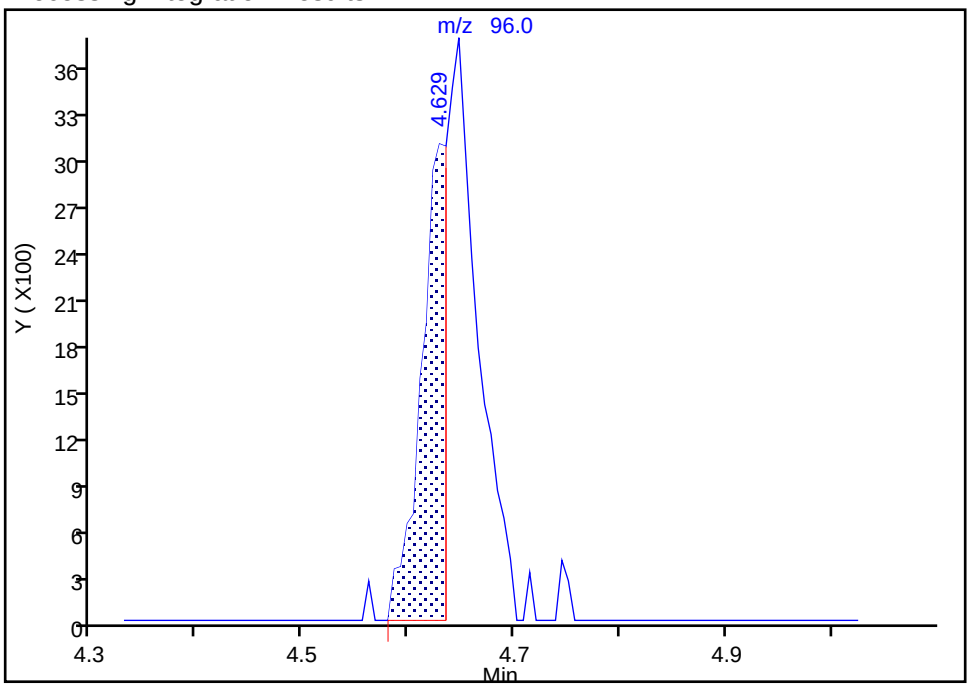
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D
Injection Date: 15-Mar-2022 03:22:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: mec29284 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

28 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

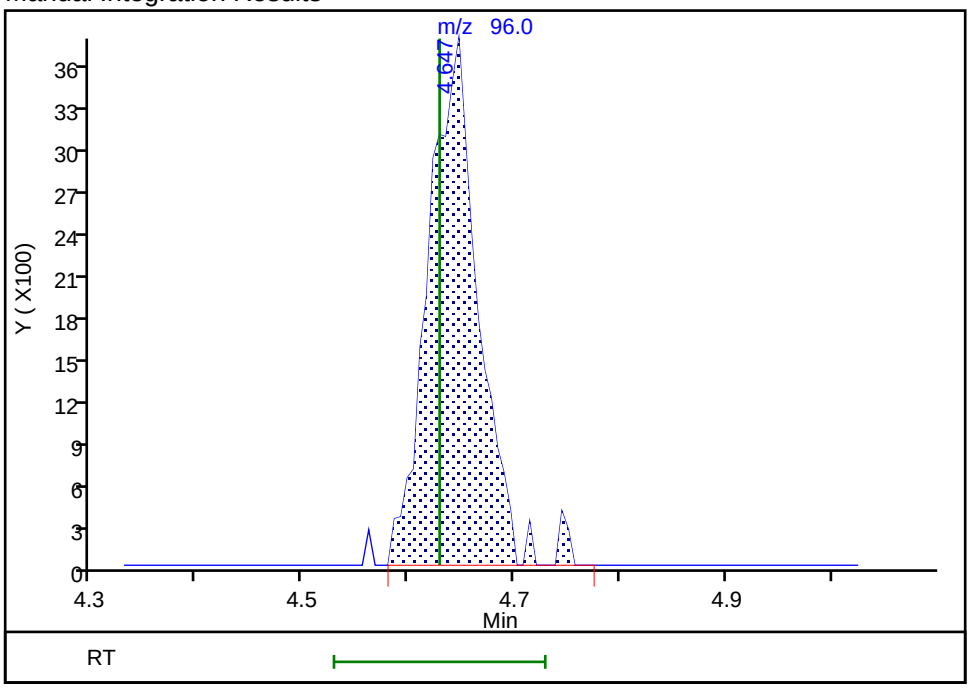
Processing Integration Results

RT: 4.63
Area: 5365
Amount: 0.115492
Amount Units: ug/l



Manual Integration Results

RT: 4.65
Area: 12680
Amount: 0.210797
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:28:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

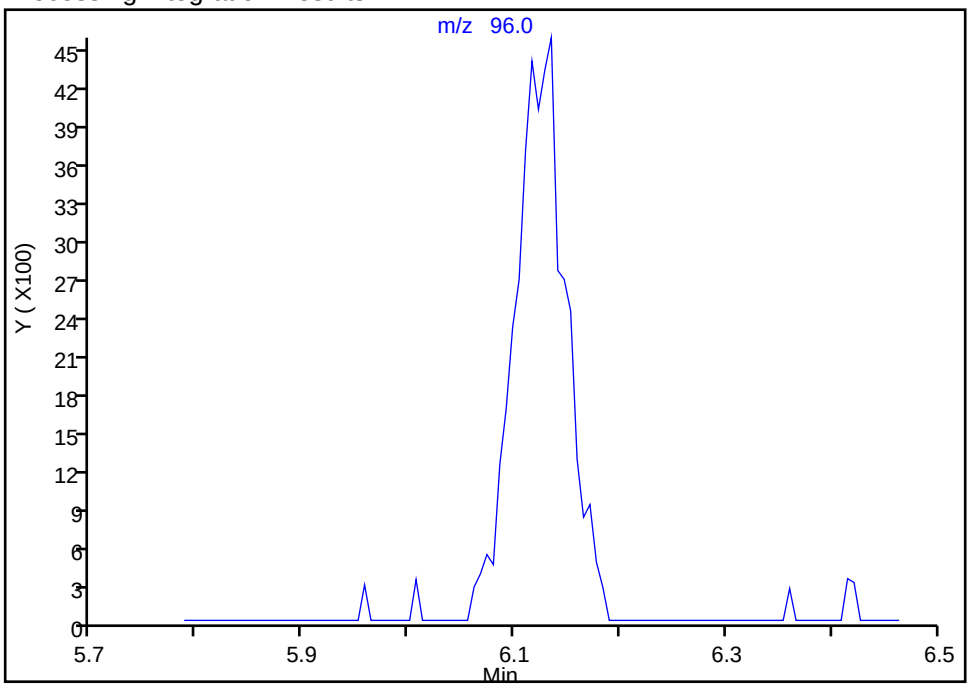
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D
Injection Date: 15-Mar-2022 03:22:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: mec29284 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

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

Signal: 1

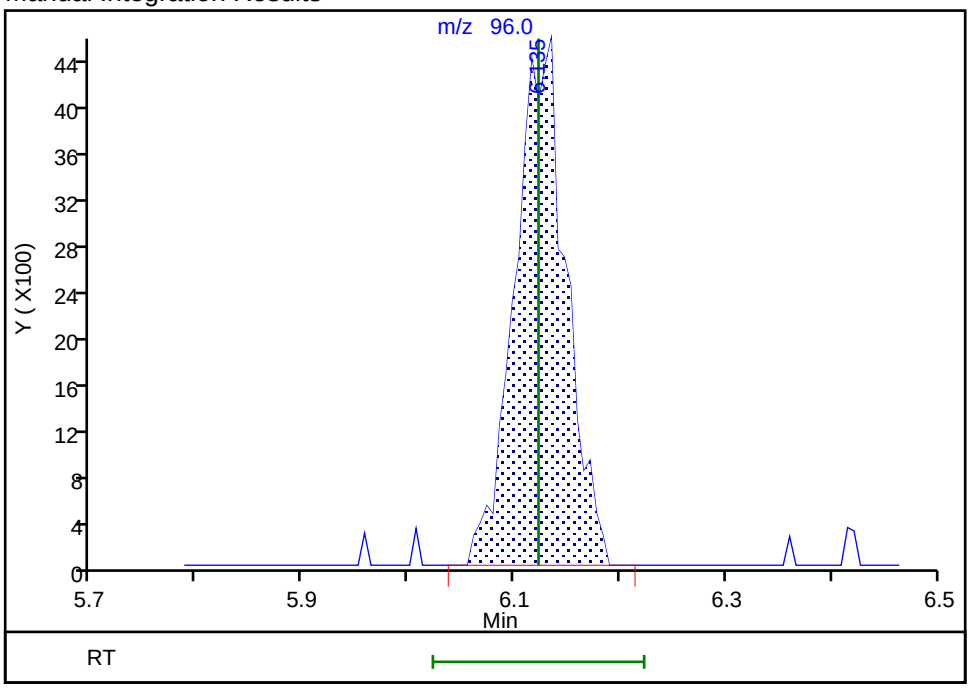
Not Detected
Expected RT: 6.12

Processing Integration Results



Manual Integration Results

RT: 6.13
Area: 15432
Amount: 0.224550
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:28:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

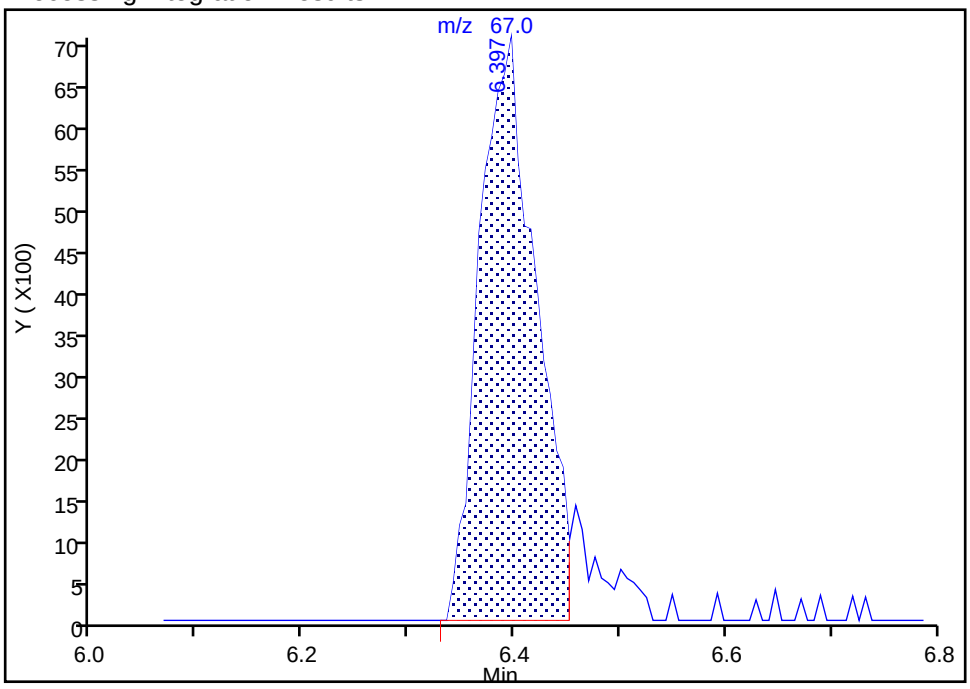
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D
Injection Date: 15-Mar-2022 03:22:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: mec29284 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

42 Methacrylonitrile, CAS: 126-98-7

Signal: 1

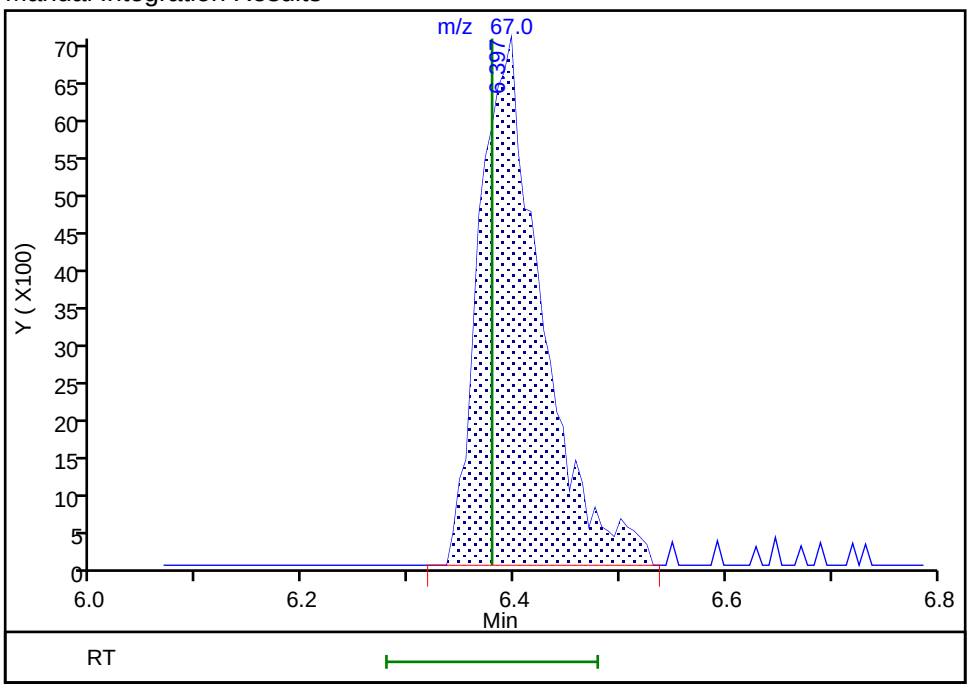
Processing Integration Results

RT: 6.40
Area: 26356
Amount: 1.782750
Amount Units: ug/l



Manual Integration Results

RT: 6.40
Area: 29038
Amount: 1.939037
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:28:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

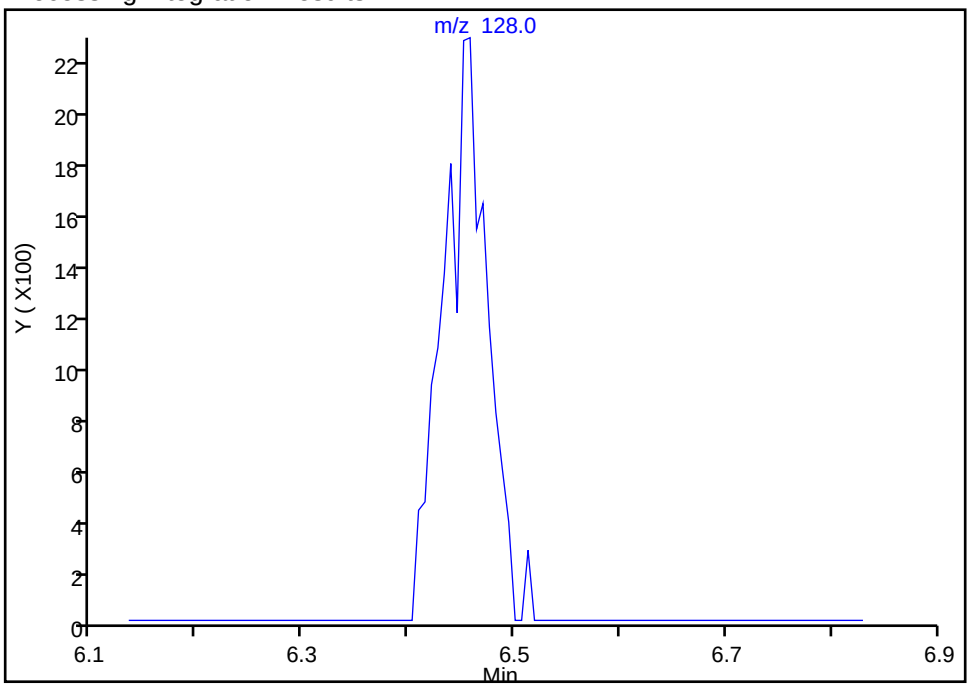
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D
Injection Date: 15-Mar-2022 03:22:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: mec29284 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

43 Chlorobromomethane, CAS: 74-97-5

Signal: 1

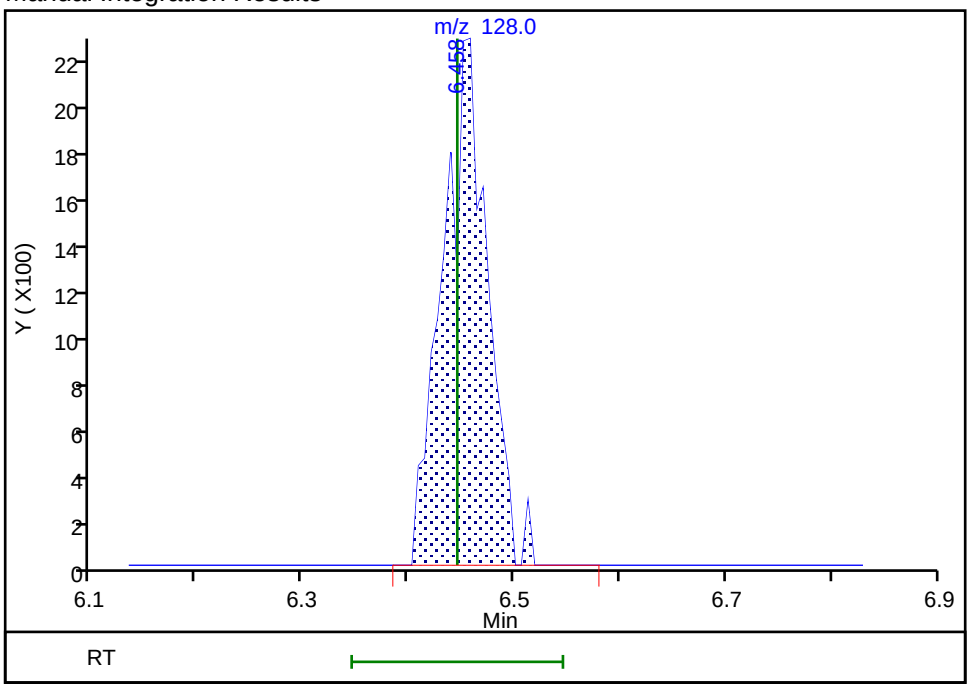
Not Detected
Expected RT: 6.45

Processing Integration Results



Manual Integration Results

RT: 6.46
Area: 6487
Amount: 0.205826
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:28:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

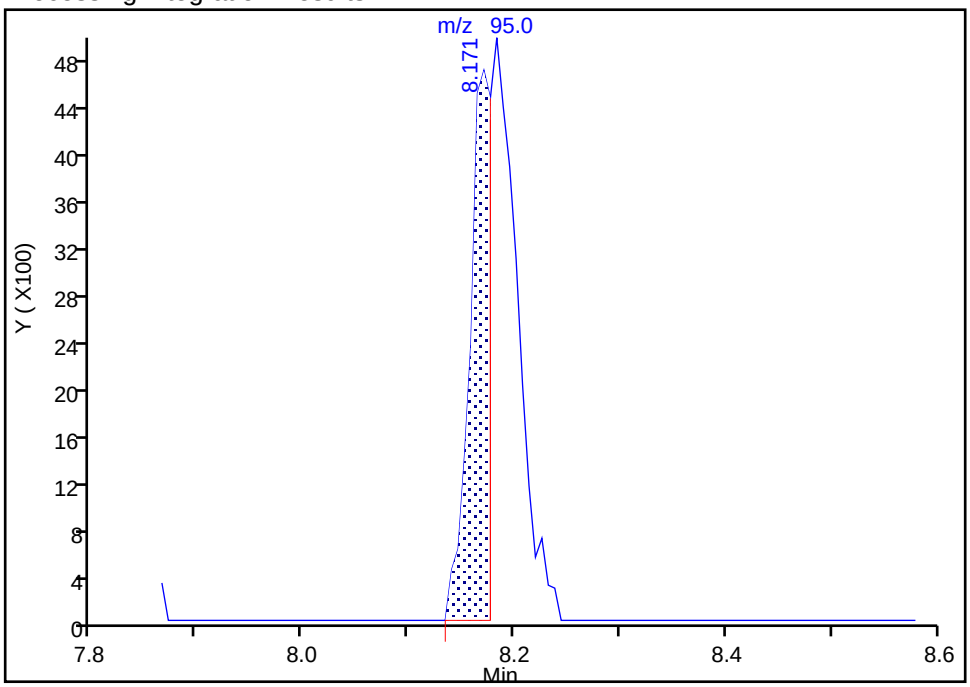
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D
Injection Date: 15-Mar-2022 03:22:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: mec29284 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

61 Trichloroethene, CAS: 79-01-6

Signal: 1

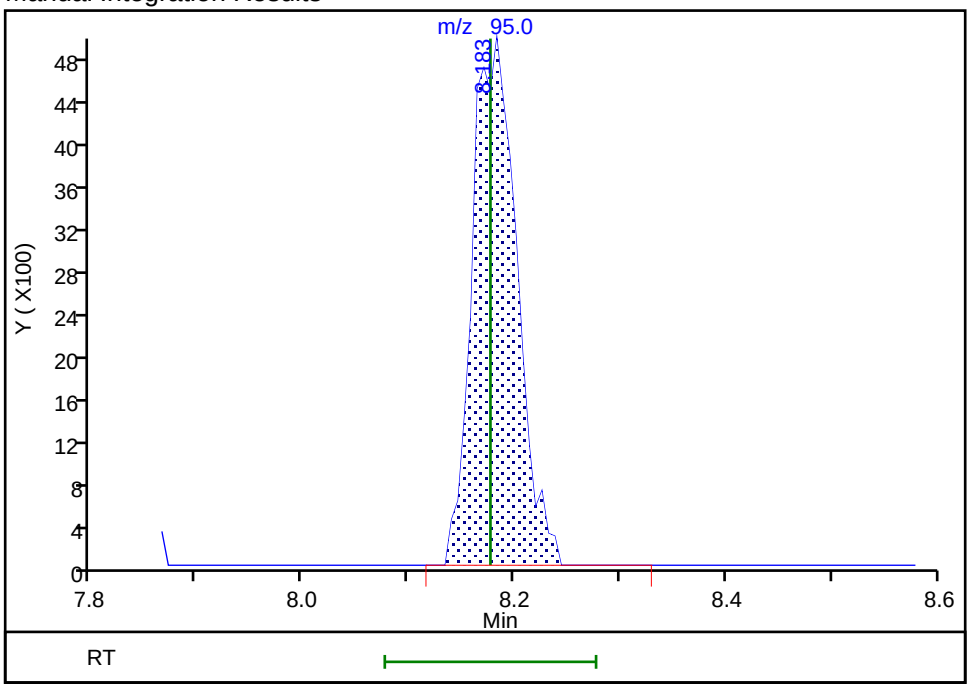
Processing Integration Results

RT: 8.17
Area: 6687
Amount: 0.181941
Amount Units: ug/l



Manual Integration Results

RT: 8.18
Area: 14385
Amount: 0.210168
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:29:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

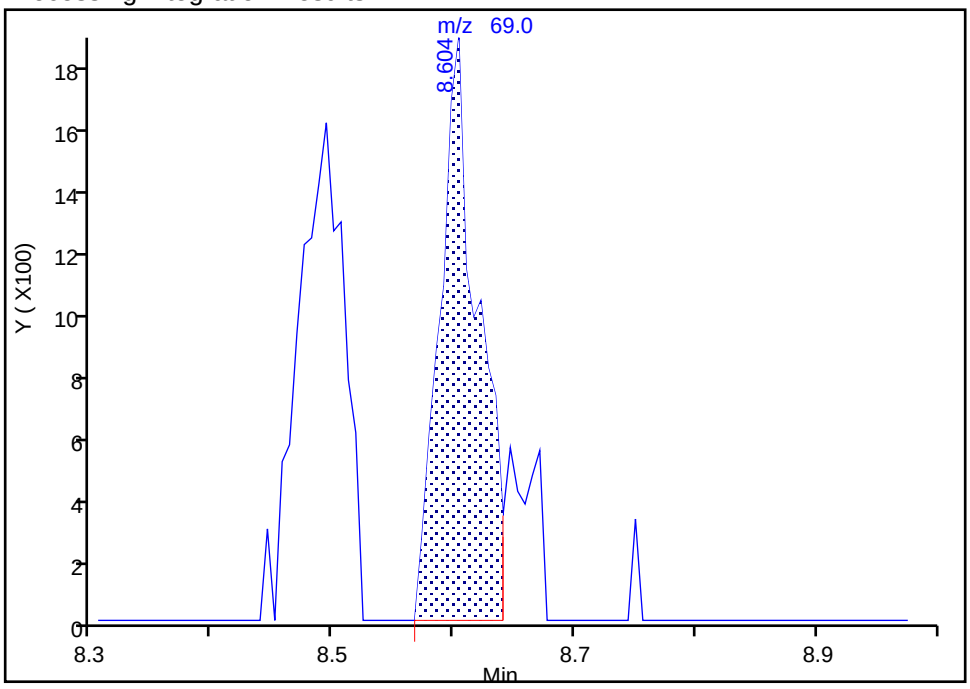
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D
Injection Date: 15-Mar-2022 03:22:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: mec29284 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

64 Methyl methacrylate, CAS: 80-62-6

Signal: 1

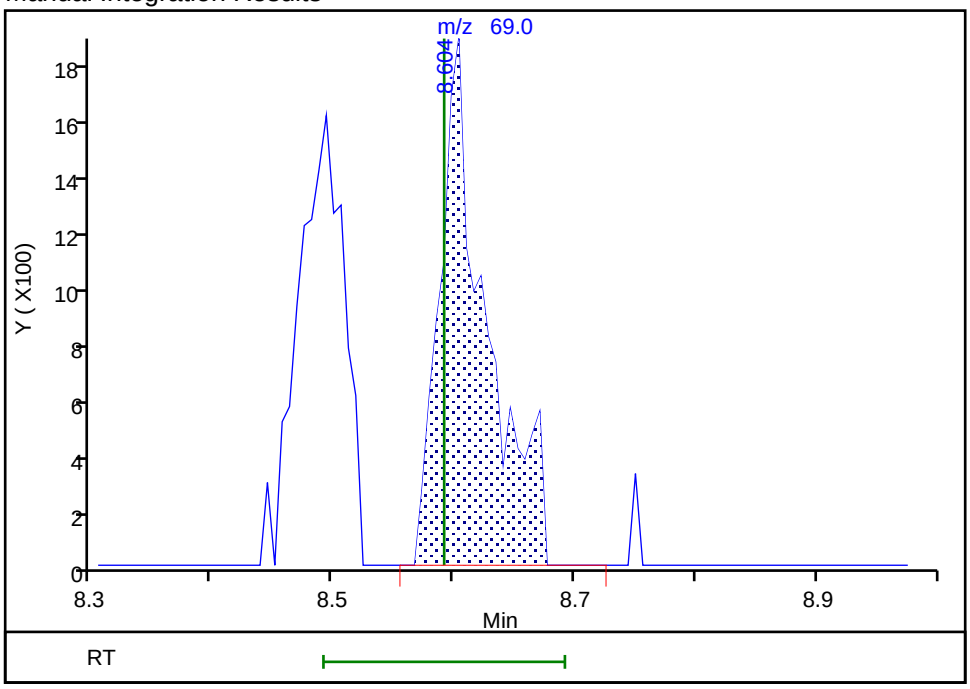
Processing Integration Results

RT: 8.60
Area: 4059
Amount: 0.146151
Amount Units: ug/l



Manual Integration Results

RT: 8.60
Area: 4900
Amount: 0.172697
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:29:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

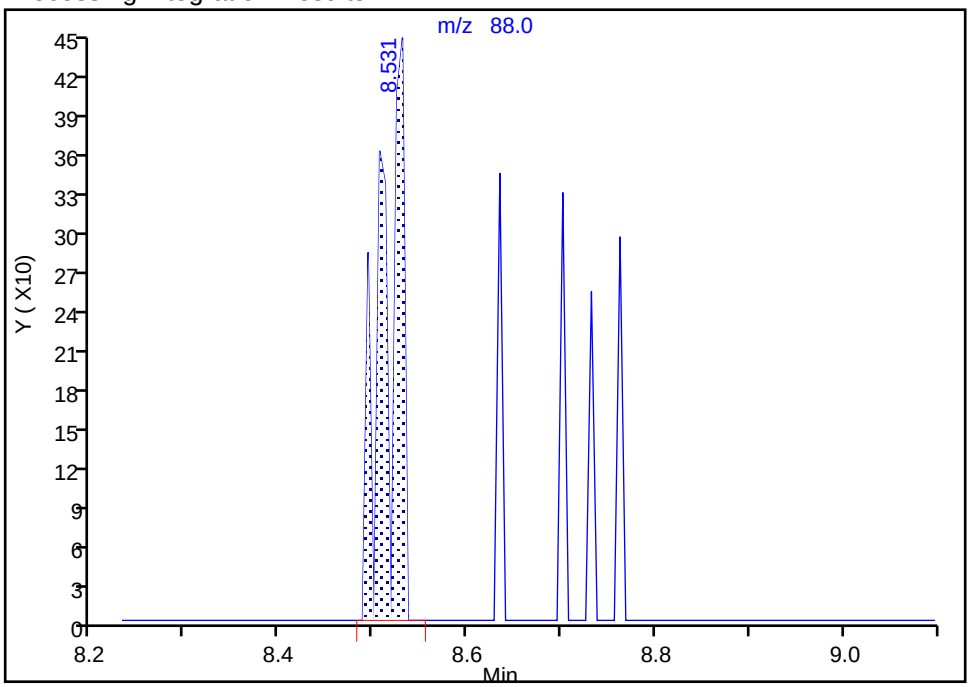
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D
Injection Date: 15-Mar-2022 03:22:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: mec29284 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

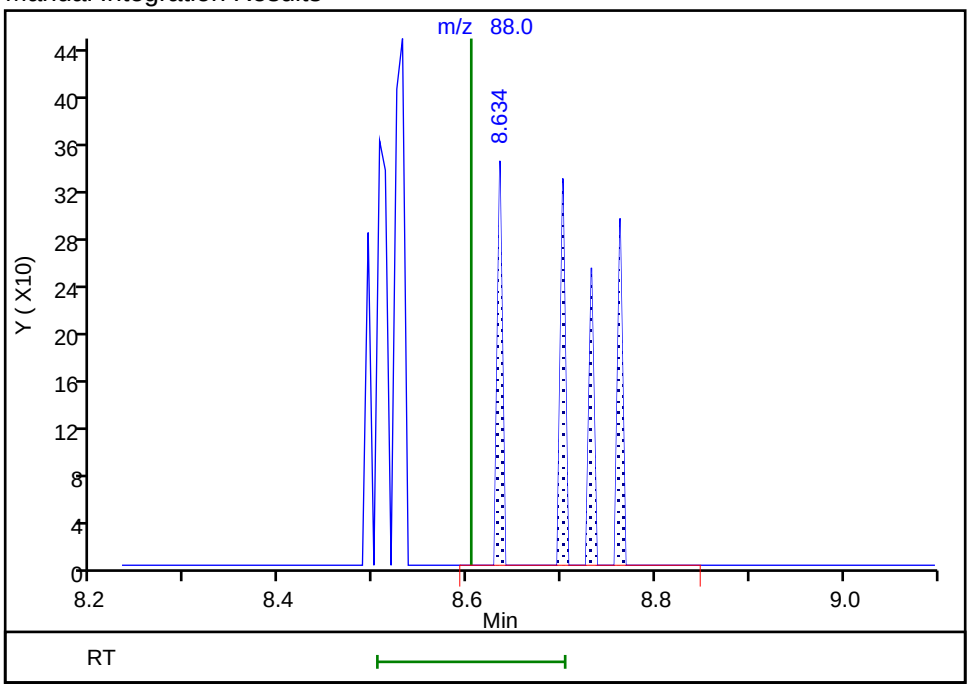
Processing Integration Results

RT: 8.53
Area: 670
Amount: 12.995507
Amount Units: ug/l



Manual Integration Results

RT: 8.63
Area: 447
Amount: 2.086510
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:29:17
Audit Action: Manually Integrated 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

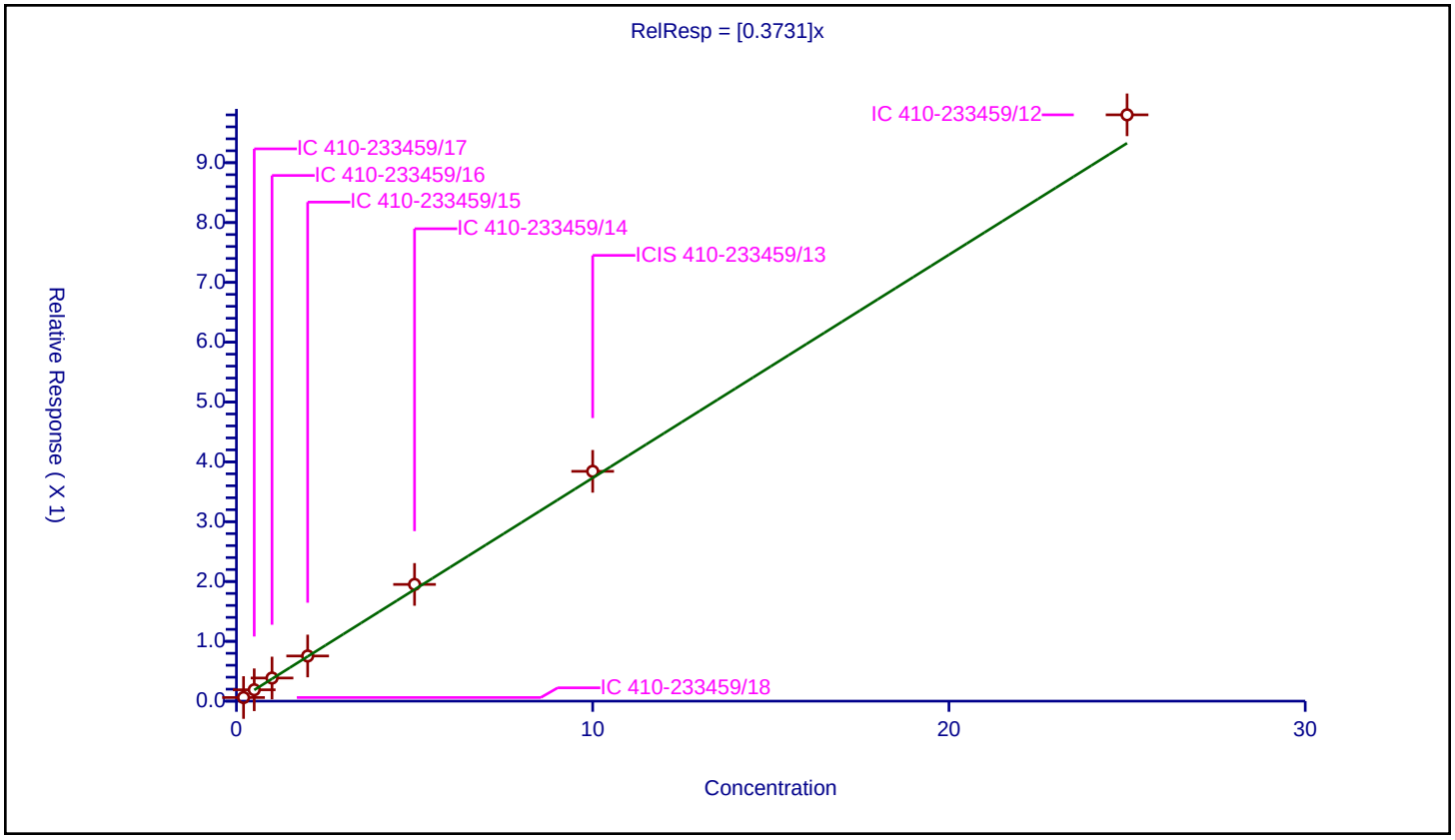
Curve Coefficients

Intercept:	0
Slope:	0.3731

Error Coefficients

Standard Error:	871000
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 410-233459/18	0.2	0.060213	10.0	2021821.0	0.301065	Y
2	IC 410-233459/17	0.5	0.190063	10.0	2017326.0	0.380127	Y
3	IC 410-233459/16	1.0	0.386496	10.0	2010448.0	0.386496	Y
4	IC 410-233459/15	2.0	0.755042	10.0	2005717.0	0.377521	Y
5	IC 410-233459/14	5.0	1.951248	10.0	2008310.0	0.39025	Y
6	ICIS 410-233459/13	10.0	3.841583	10.0	2018353.0	0.384158	Y
7	IC 410-233459/12	25.0	9.800613	10.0	1979820.0	0.392025	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

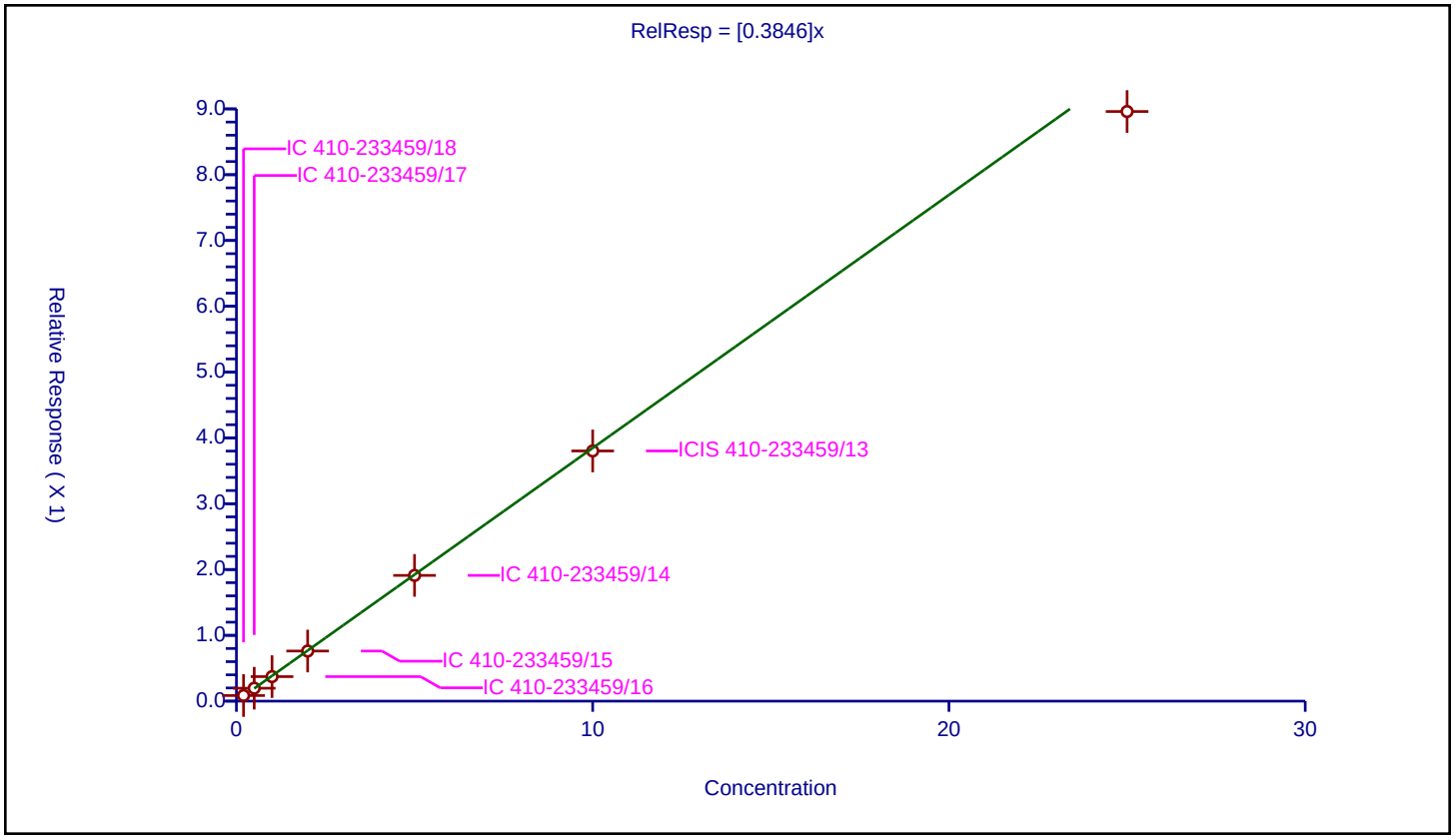
Curve Coefficients

Intercept:	0
Slope:	0.3846

Error Coefficients

Standard Error:	808000
Relative Standard Error:	5.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.085082	10.0	2021821.0	0.425409	Y
2	IC 410-233459/17	0.5	0.196304	10.0	2017326.0	0.392609	Y
3	IC 410-233459/16	1.0	0.372743	10.0	2010448.0	0.372743	Y
4	IC 410-233459/15	2.0	0.761708	10.0	2005717.0	0.380854	Y
5	IC 410-233459/14	5.0	1.910761	10.0	2008310.0	0.382152	Y
6	ICIS 410-233459/13	10.0	3.801922	10.0	2018353.0	0.380192	Y
7	IC 410-233459/12	25.0	8.960436	10.0	1979820.0	0.358417	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

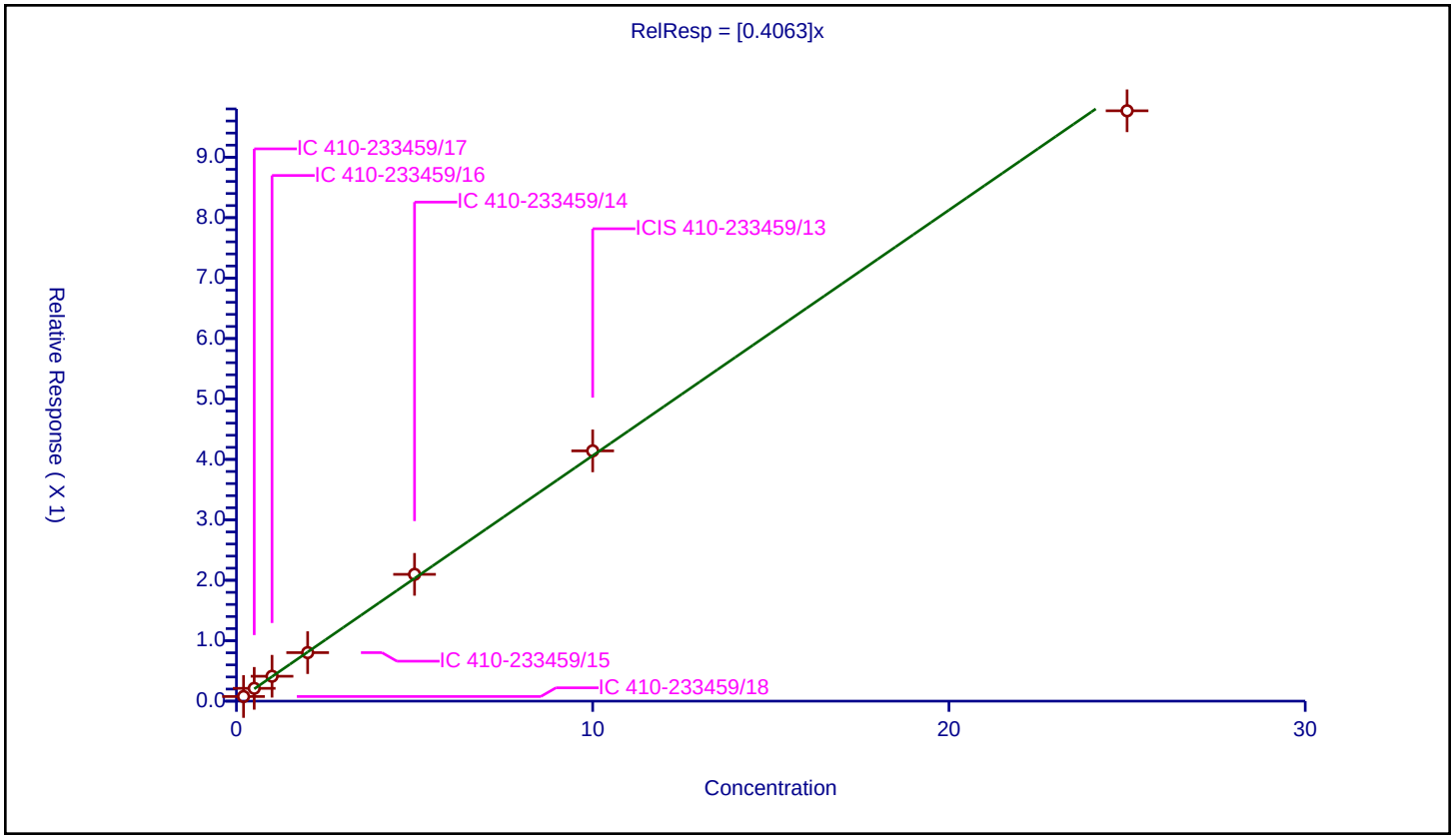
Curve Coefficients

Intercept:	0
Slope:	0.4063

Error Coefficients

Standard Error:	880000
Relative Standard Error:	3.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.076436	10.0	2021821.0	0.38218	Y
2	IC 410-233459/17	0.5	0.211944	10.0	2017326.0	0.423888	Y
3	IC 410-233459/16	1.0	0.411998	10.0	2010448.0	0.411998	Y
4	IC 410-233459/15	2.0	0.80289	10.0	2005717.0	0.401445	Y
5	IC 410-233459/14	5.0	2.098197	10.0	2008310.0	0.419639	Y
6	ICIS 410-233459/13	10.0	4.141159	10.0	2018353.0	0.414116	Y
7	IC 410-233459/12	25.0	9.76859	10.0	1979820.0	0.390744	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

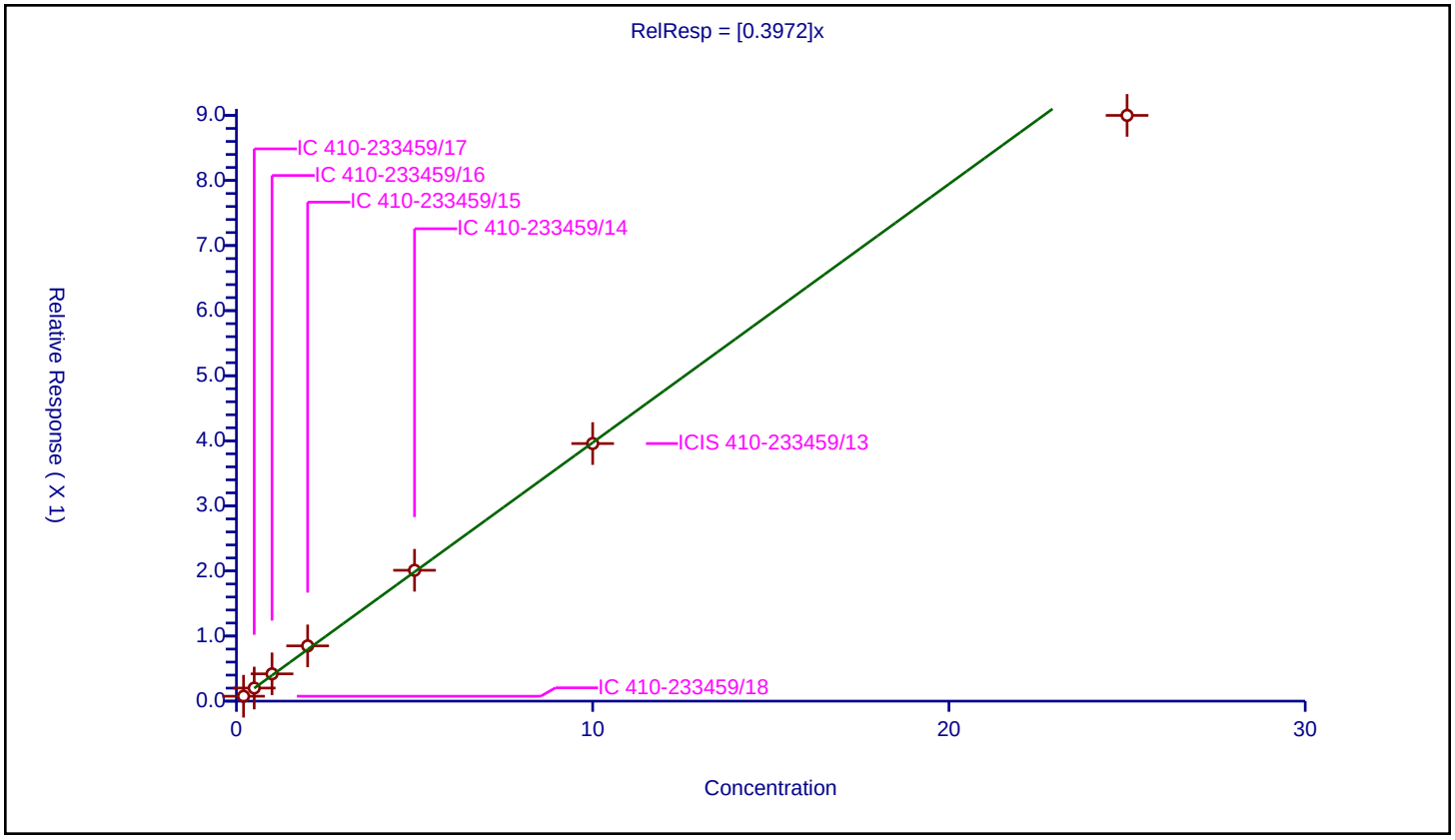
Curve Coefficients

Intercept:	0
Slope:	0.3972

Error Coefficients

Standard Error:	818000
Relative Standard Error:	5.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.075343	10.0	2021821.0	0.376715	Y
2	IC 410-233459/17	0.5	0.201088	10.0	2017326.0	0.402176	Y
3	IC 410-233459/16	1.0	0.419374	10.0	2010448.0	0.419374	Y
4	IC 410-233459/15	2.0	0.849033	10.0	2005717.0	0.424517	Y
5	IC 410-233459/14	5.0	2.01071	10.0	2008310.0	0.402142	Y
6	ICIS 410-233459/13	10.0	3.957905	10.0	2018353.0	0.395791	Y
7	IC 410-233459/12	25.0	9.000182	10.0	1979820.0	0.360007	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

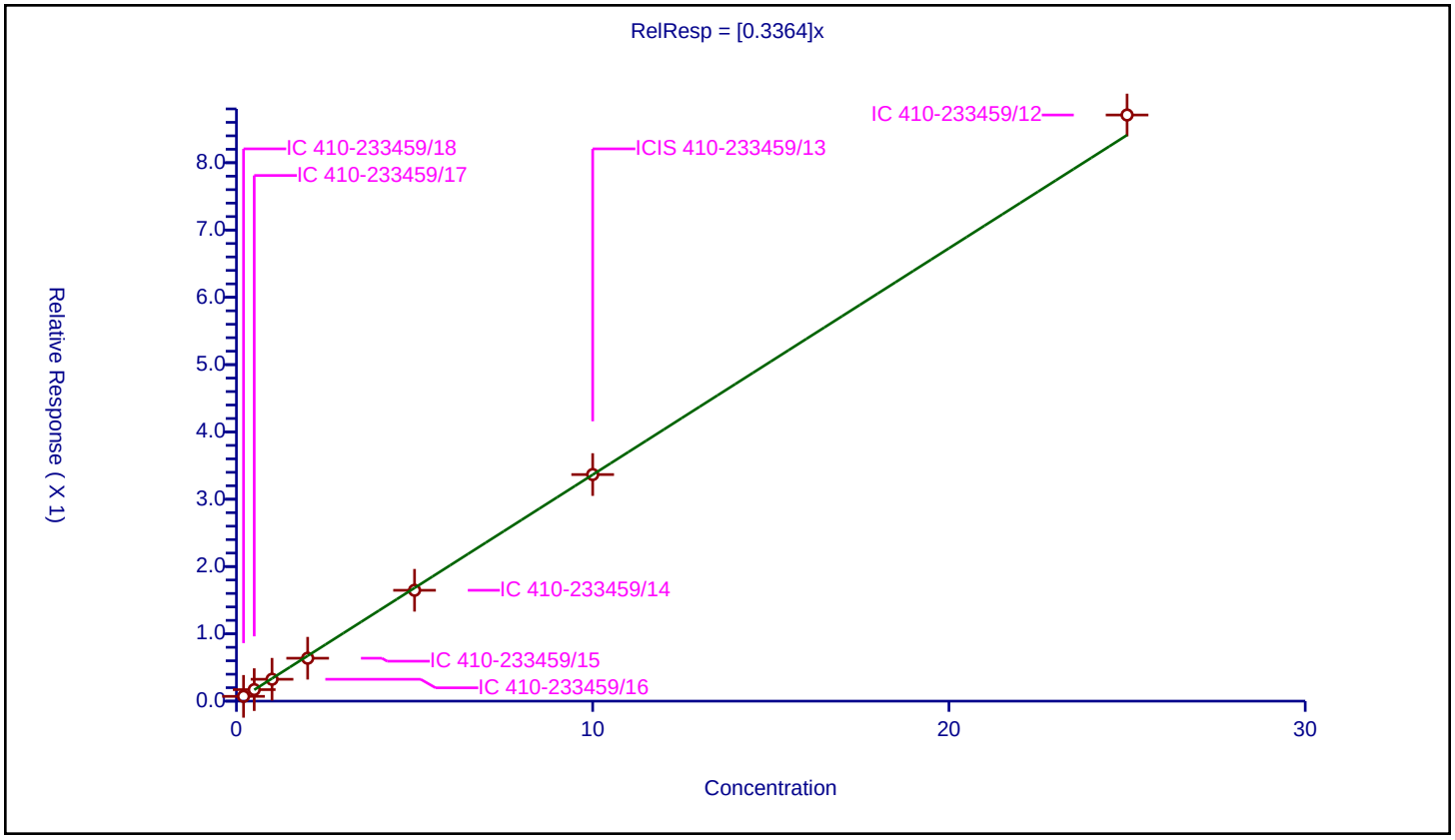
Curve Coefficients

Intercept:	0
Slope:	0.3364

Error Coefficients

Standard Error:	771000
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 410-233459/18	0.2	0.070847	10.0	2021821.0	0.354235	Y
2	IC 410-233459/17	0.5	0.171246	10.0	2017326.0	0.342493	Y
3	IC 410-233459/16	1.0	0.325097	10.0	2010448.0	0.325097	Y
4	IC 410-233459/15	2.0	0.637622	10.0	2005717.0	0.318811	Y
5	IC 410-233459/14	5.0	1.647161	10.0	2008310.0	0.329432	Y
6	ICIS 410-233459/13	10.0	3.366884	10.0	2018353.0	0.336688	Y
7	IC 410-233459/12	25.0	8.709448	10.0	1979820.0	0.348378	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

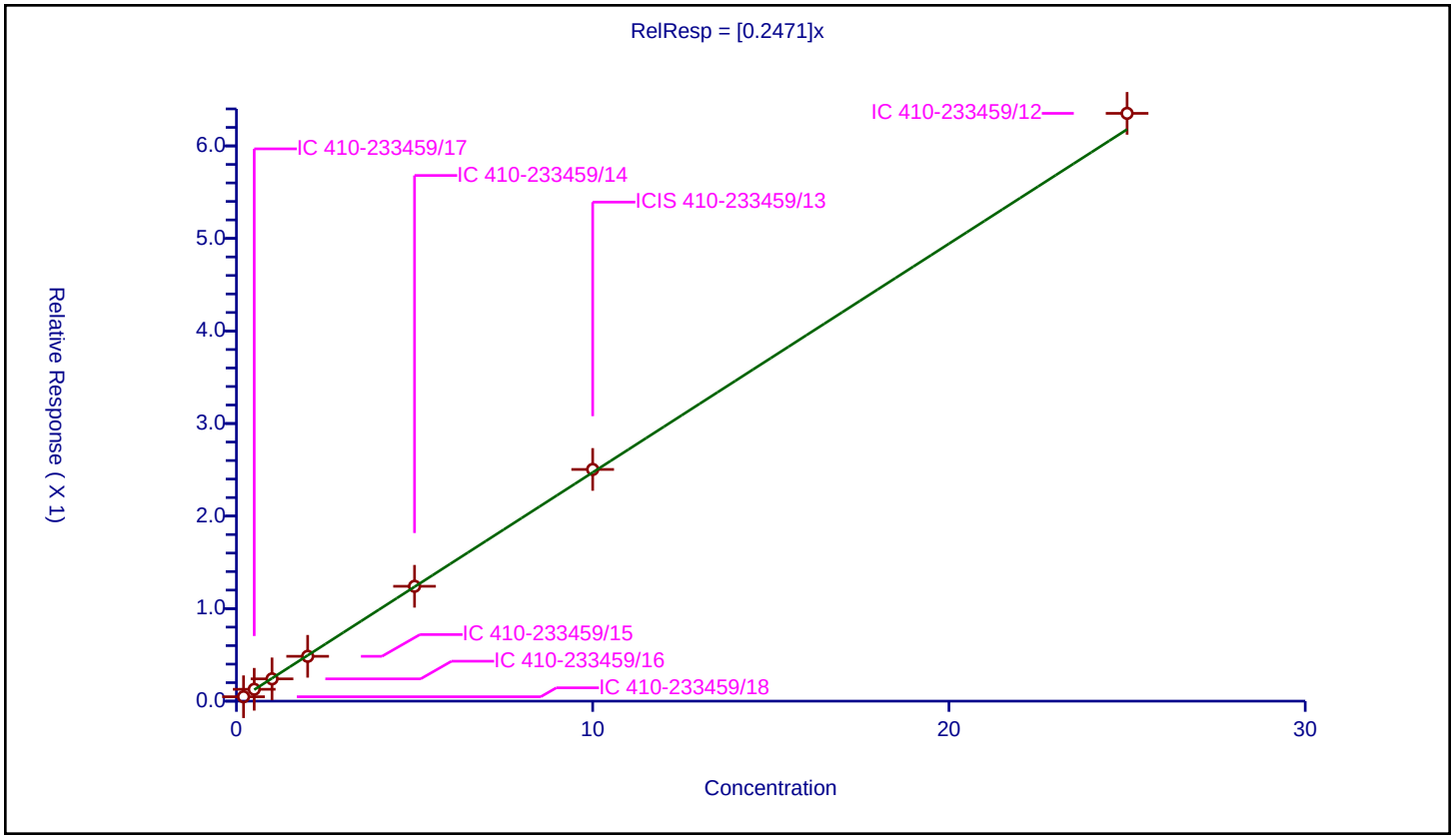
Curve Coefficients

Intercept:	0
Slope:	0.2471

Error Coefficients

Standard Error:	564000
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 410-233459/18	0.2	0.047551	10.0	2021821.0	0.237756	Y
2	IC 410-233459/17	0.5	0.128333	10.0	2017326.0	0.256666	Y
3	IC 410-233459/16	1.0	0.240678	10.0	2010448.0	0.240678	Y
4	IC 410-233459/15	2.0	0.484475	10.0	2005717.0	0.242238	Y
5	IC 410-233459/14	5.0	1.241273	10.0	2008310.0	0.248255	Y
6	ICIS 410-233459/13	10.0	2.503764	10.0	2018353.0	0.250376	Y
7	IC 410-233459/12	25.0	6.351663	10.0	1979820.0	0.254067	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

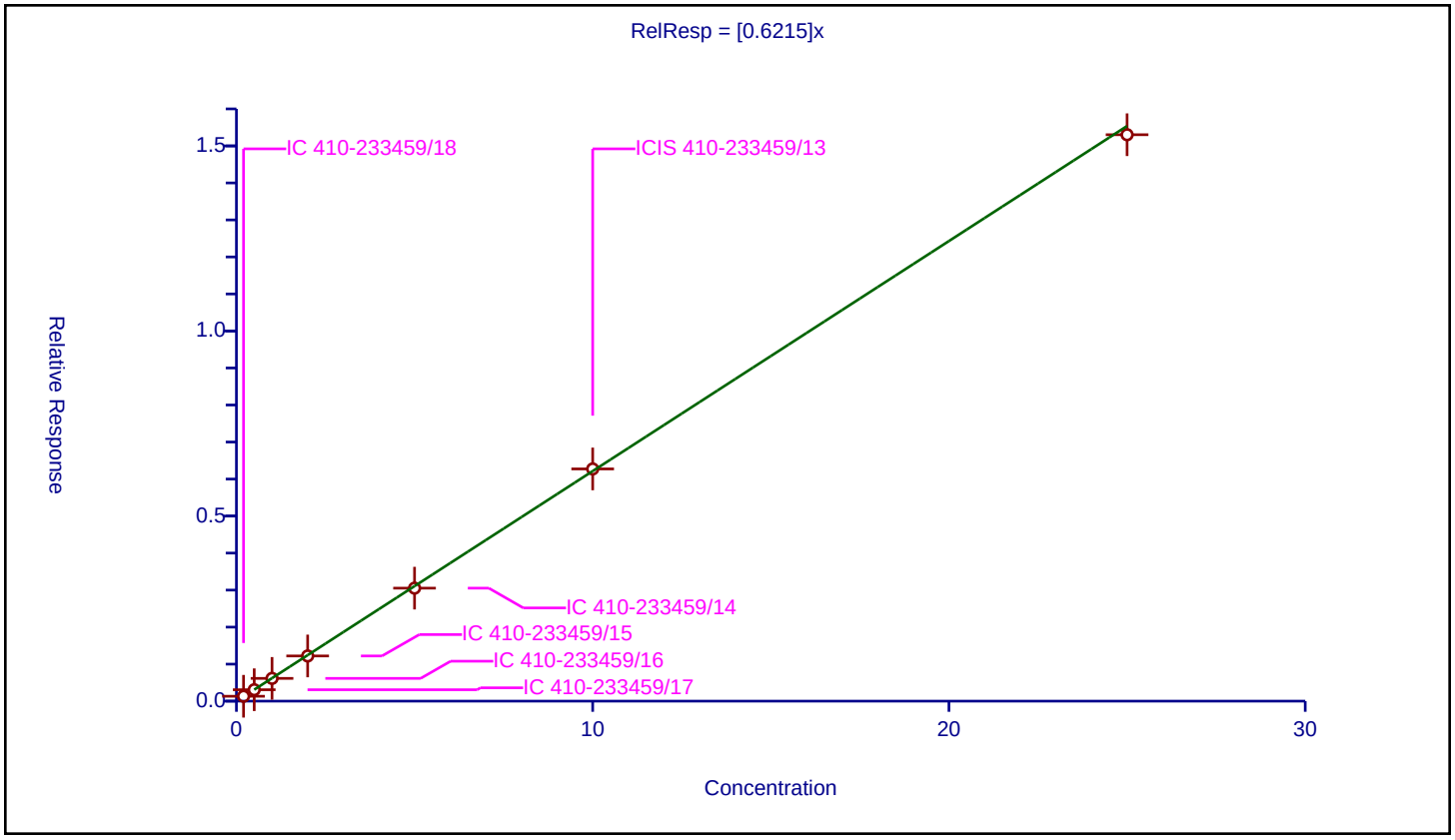
Curve Coefficients

Intercept:	0
Slope:	0.6215

Error Coefficients

Standard Error:	1370000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.131851	10.0	2021821.0	0.659257	Y
2	IC 410-233459/17	0.5	0.308061	10.0	2017326.0	0.616123	Y
3	IC 410-233459/16	1.0	0.614868	10.0	2010448.0	0.614868	Y
4	IC 410-233459/15	2.0	1.220446	10.0	2005717.0	0.610223	Y
5	IC 410-233459/14	5.0	3.052636	10.0	2008310.0	0.610527	Y
6	ICIS 410-233459/13	10.0	6.272976	10.0	2018353.0	0.627298	Y
7	IC 410-233459/12	25.0	15.301901	10.0	1979820.0	0.612076	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

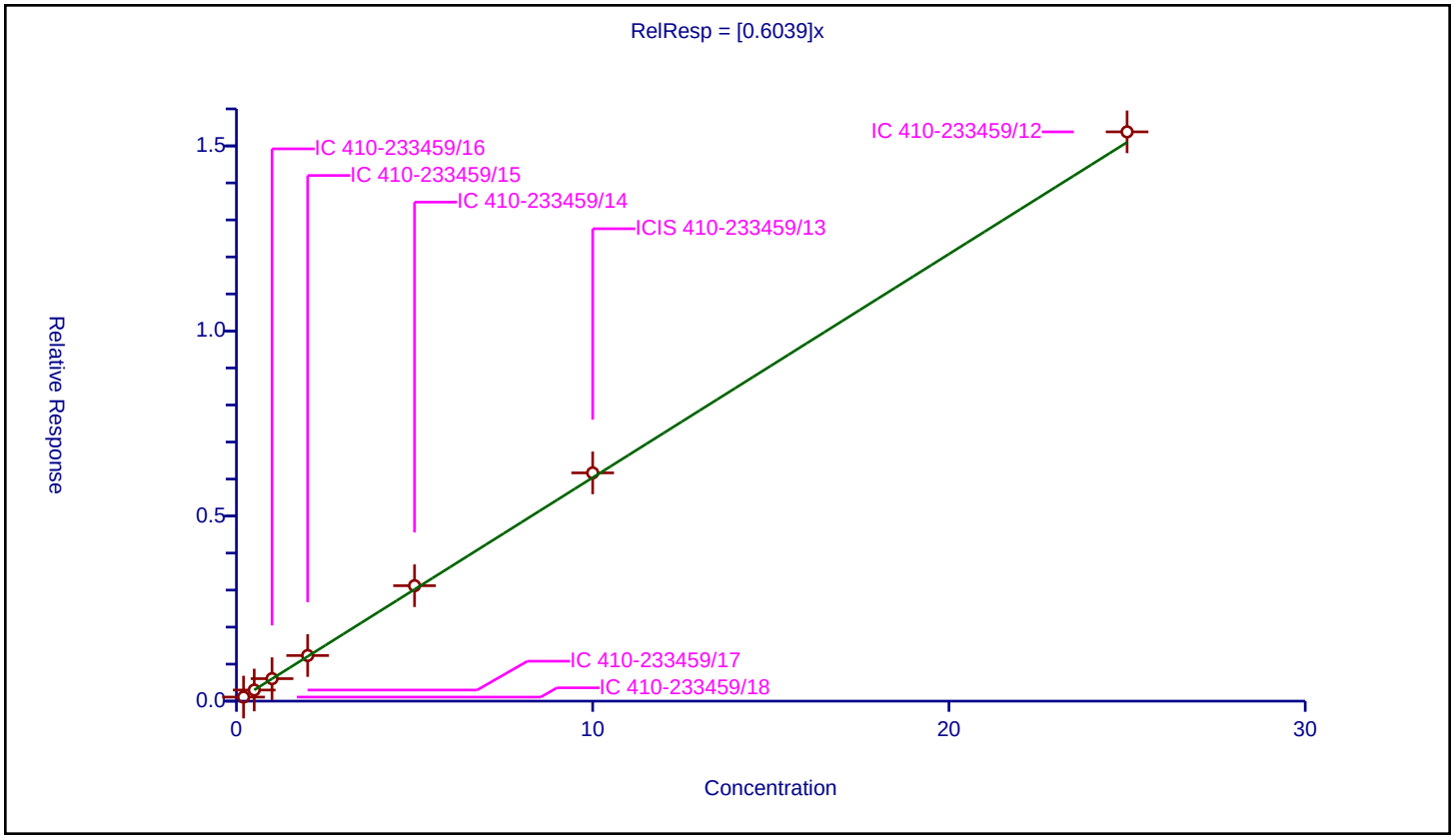
Curve Coefficients

Intercept:	0
Slope:	0.6039

Error Coefficients

Standard Error:	1370000
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 410-233459/18	0.2	0.109372	10.0	2021821.0	0.546859	Y
2	IC 410-233459/17	0.5	0.300646	10.0	2017326.0	0.601291	Y
3	IC 410-233459/16	1.0	0.607387	10.0	2010448.0	0.607387	Y
4	IC 410-233459/15	2.0	1.232512	10.0	2005717.0	0.616256	Y
5	IC 410-233459/14	5.0	3.118996	10.0	2008310.0	0.623799	Y
6	ICIS 410-233459/13	10.0	6.166761	10.0	2018353.0	0.616676	Y
7	IC 410-233459/12	25.0	15.37955	10.0	1979820.0	0.615182	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

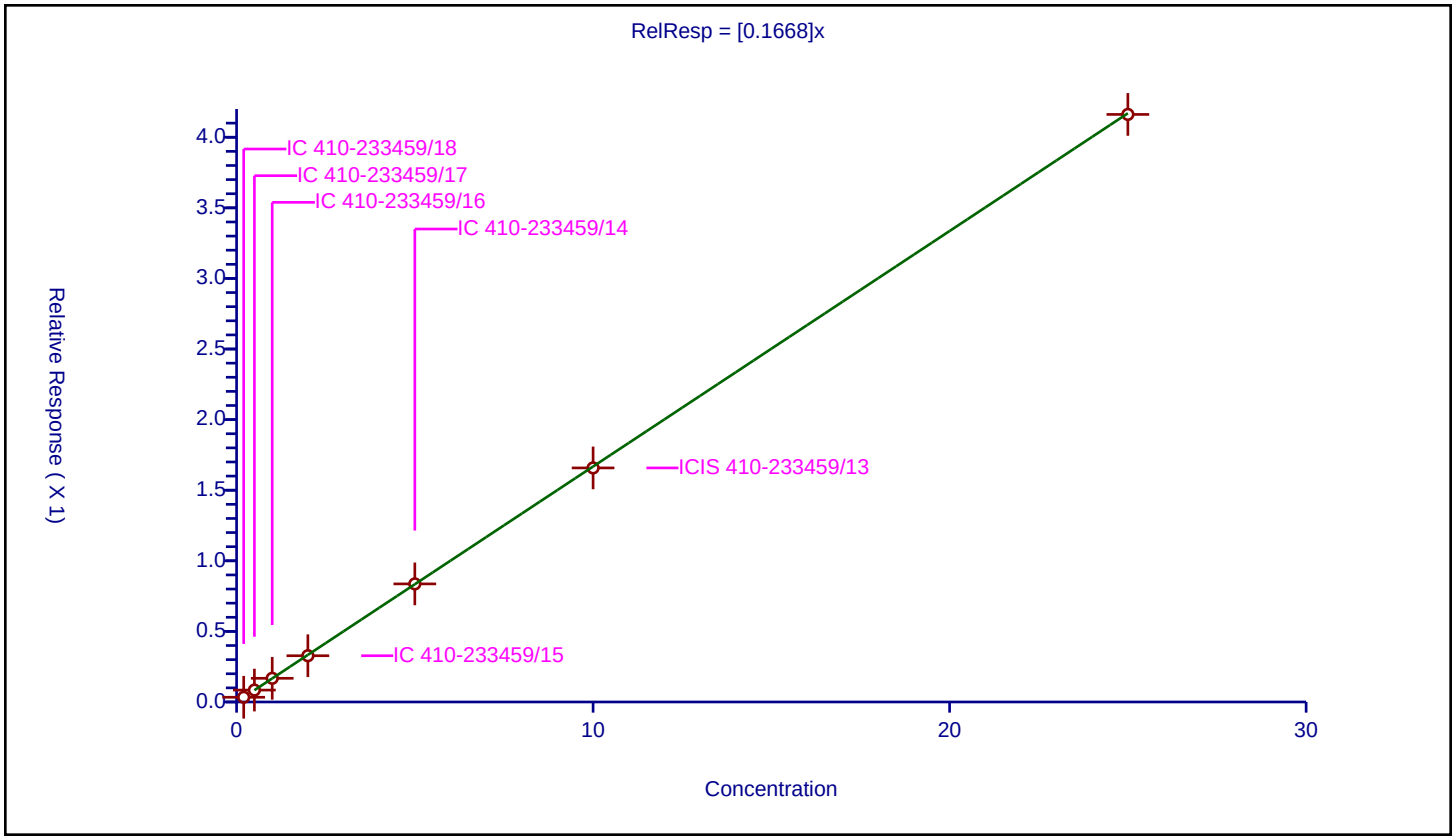
Curve Coefficients

Intercept:	0
Slope:	0.1668

Error Coefficients

Standard Error:	371000
Relative Standard Error:	1.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.033554	10.0	2021821.0	0.16777	Y
2	IC 410-233459/17	0.5	0.08429	10.0	2017326.0	0.16858	Y
3	IC 410-233459/16	0.999999	0.167853	10.0	2010448.0	0.167853	Y
4	IC 410-233459/15	1.999998	0.327559	10.0	2005717.0	0.16378	Y
5	IC 410-233459/14	4.999995	0.836534	10.0	2008310.0	0.167307	Y
6	ICIS 410-233459/13	9.99999	1.657916	10.0	2018353.0	0.165792	Y
7	IC 410-233459/12	24.999975	4.161697	10.0	1979820.0	0.166468	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

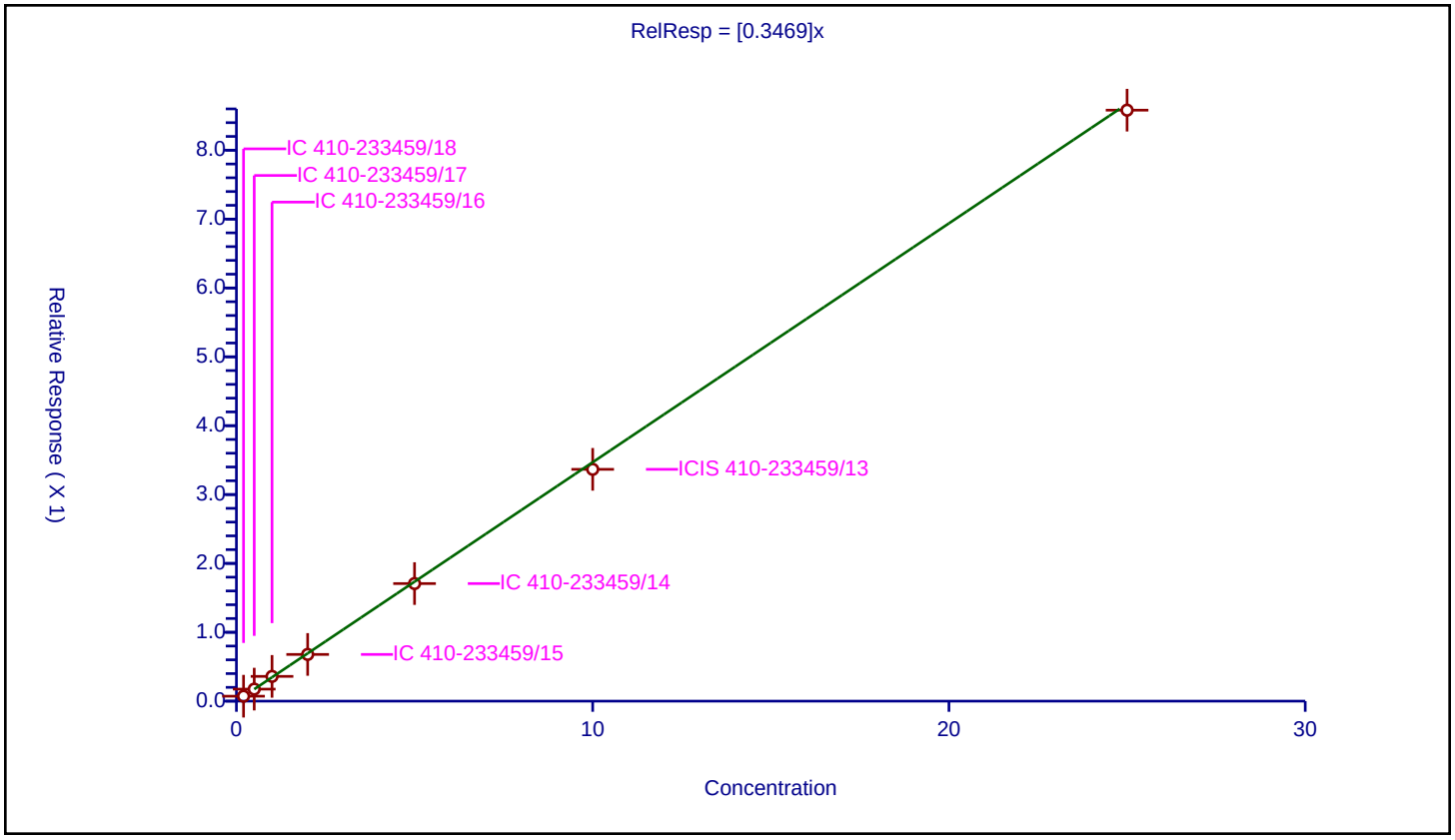
Curve Coefficients

Intercept:	0
Slope:	0.3469

Error Coefficients

Standard Error:	763000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.071792	10.0	2021821.0	0.358959	Y
2	IC 410-233459/17	0.5	0.174697	10.0	2017326.0	0.349393	Y
3	IC 410-233459/16	1.0	0.359512	10.0	2010448.0	0.359512	Y
4	IC 410-233459/15	2.0	0.678107	10.0	2005717.0	0.339053	Y
5	IC 410-233459/14	5.0	1.707261	10.0	2008310.0	0.341452	Y
6	ICIS 410-233459/13	10.0	3.36617	10.0	2018353.0	0.336617	Y
7	IC 410-233459/12	25.0	8.581275	10.0	1979820.0	0.343251	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

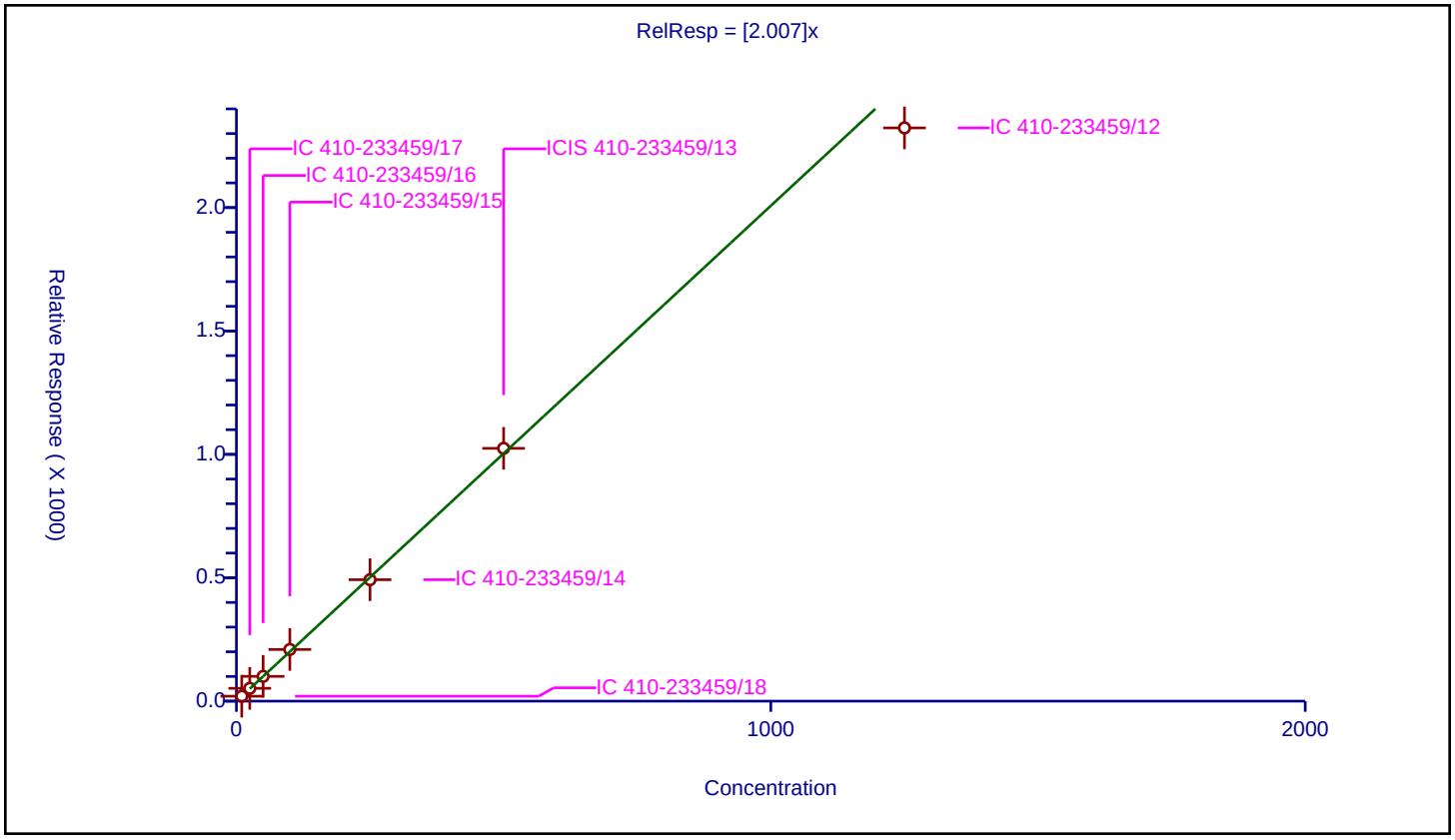
Curve Coefficients

Intercept:	0
Slope:	2.007

Error Coefficients

Standard Error:	3180000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	10.000602	19.984643	50.0	155632.0	1.998344	Y
2	IC 410-233459/17	25.001506	51.916269	50.0	134454.0	2.076526	Y
3	IC 410-233459/16	50.003012	100.398101	50.0	144059.0	2.007841	Y
4	IC 410-233459/15	100.006024	209.348457	50.0	140927.0	2.093358	Y
5	IC 410-233459/14	250.01506	492.086554	50.0	149941.0	1.968228	Y
6	ICIS 410-233459/13	500.03012	1024.422213	50.0	147286.0	2.048721	Y
7	IC 410-233459/12	1250.075299	2322.969237	50.0	150473.0	1.858263	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

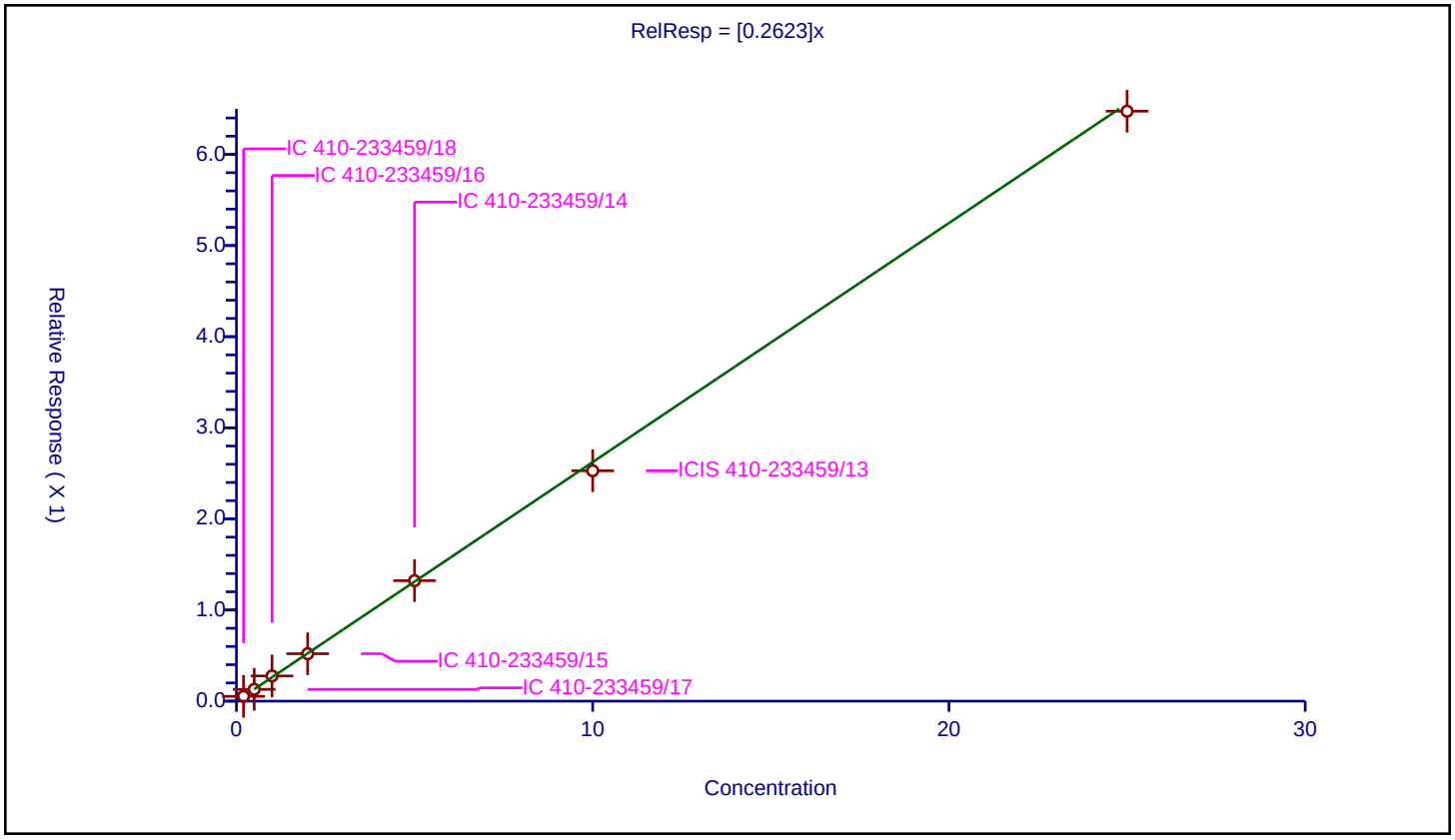
Curve Coefficients

Intercept:	0
Slope:	0.2623

Error Coefficients

Standard Error:	576000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.052735	10.0	2021821.0	0.263673	Y
2	IC 410-233459/17	0.5	0.129761	10.0	2017326.0	0.259522	Y
3	IC 410-233459/16	1.0	0.27665	10.0	2010448.0	0.27665	Y
4	IC 410-233459/15	2.0	0.520557	10.0	2005717.0	0.260278	Y
5	IC 410-233459/14	5.0	1.322266	10.0	2008310.0	0.264453	Y
6	ICIS 410-233459/13	10.0	2.528477	10.0	2018353.0	0.252848	Y
7	IC 410-233459/12	25.0	6.474553	10.0	1979820.0	0.258982	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

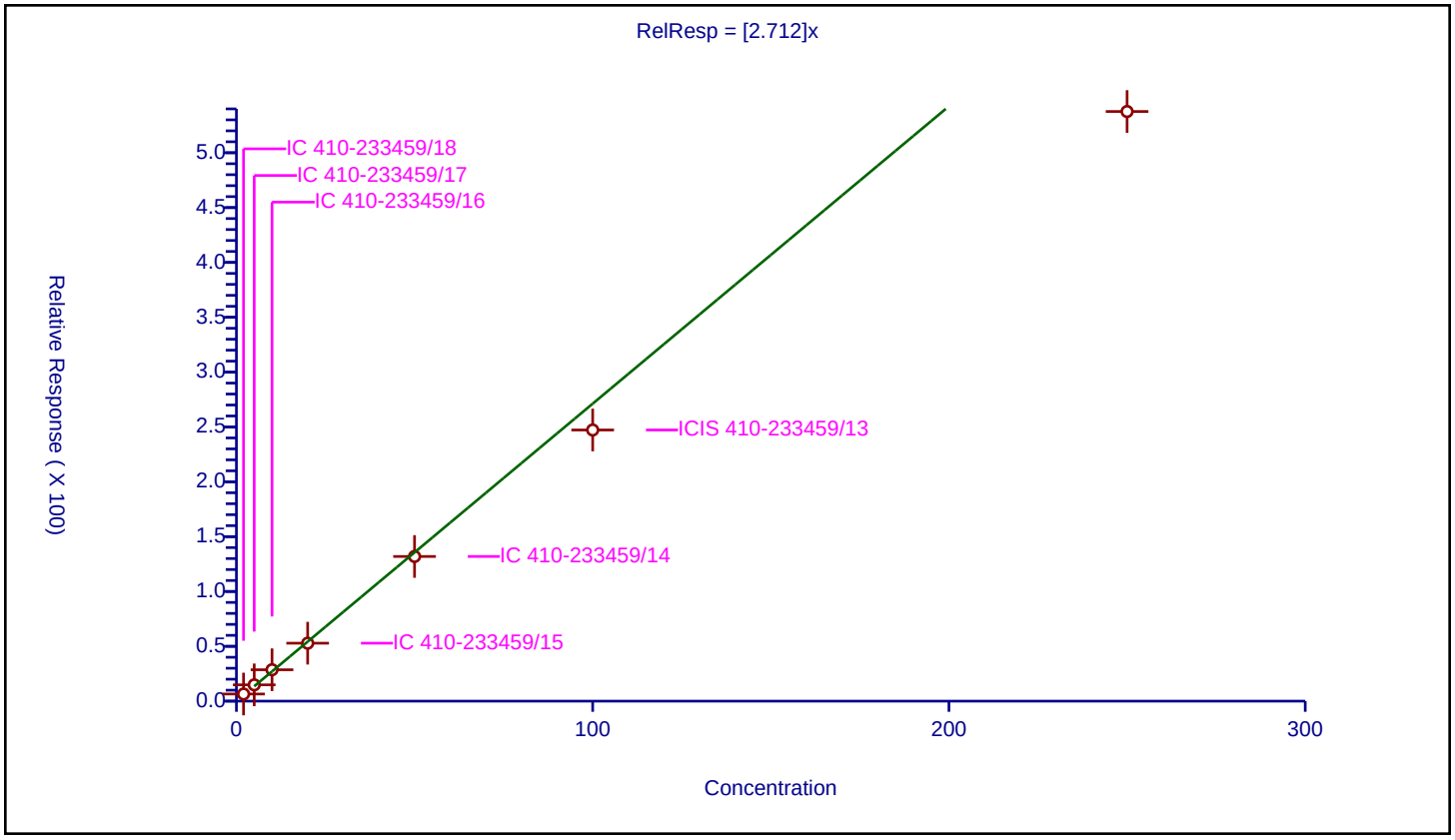
Curve Coefficients

Intercept:	0
Slope:	2.712

Error Coefficients

Standard Error:	745000
Relative Standard Error:	13.1
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	2.0	6.499627	50.0	155632.0	3.249814	Y
2	IC 410-233459/17	5.0	14.855638	50.0	134454.0	2.971128	Y
3	IC 410-233459/16	10.0	28.621606	50.0	144059.0	2.862161	Y
4	IC 410-233459/15	20.0	52.825931	50.0	140927.0	2.641297	Y
5	IC 410-233459/14	50.0	131.902882	50.0	149941.0	2.638058	Y
6	ICIS 410-233459/13	100.0	247.229879	50.0	147286.0	2.472299	Y
7	IC 410-233459/12	250.0	537.611399	50.0	150473.0	2.150446	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

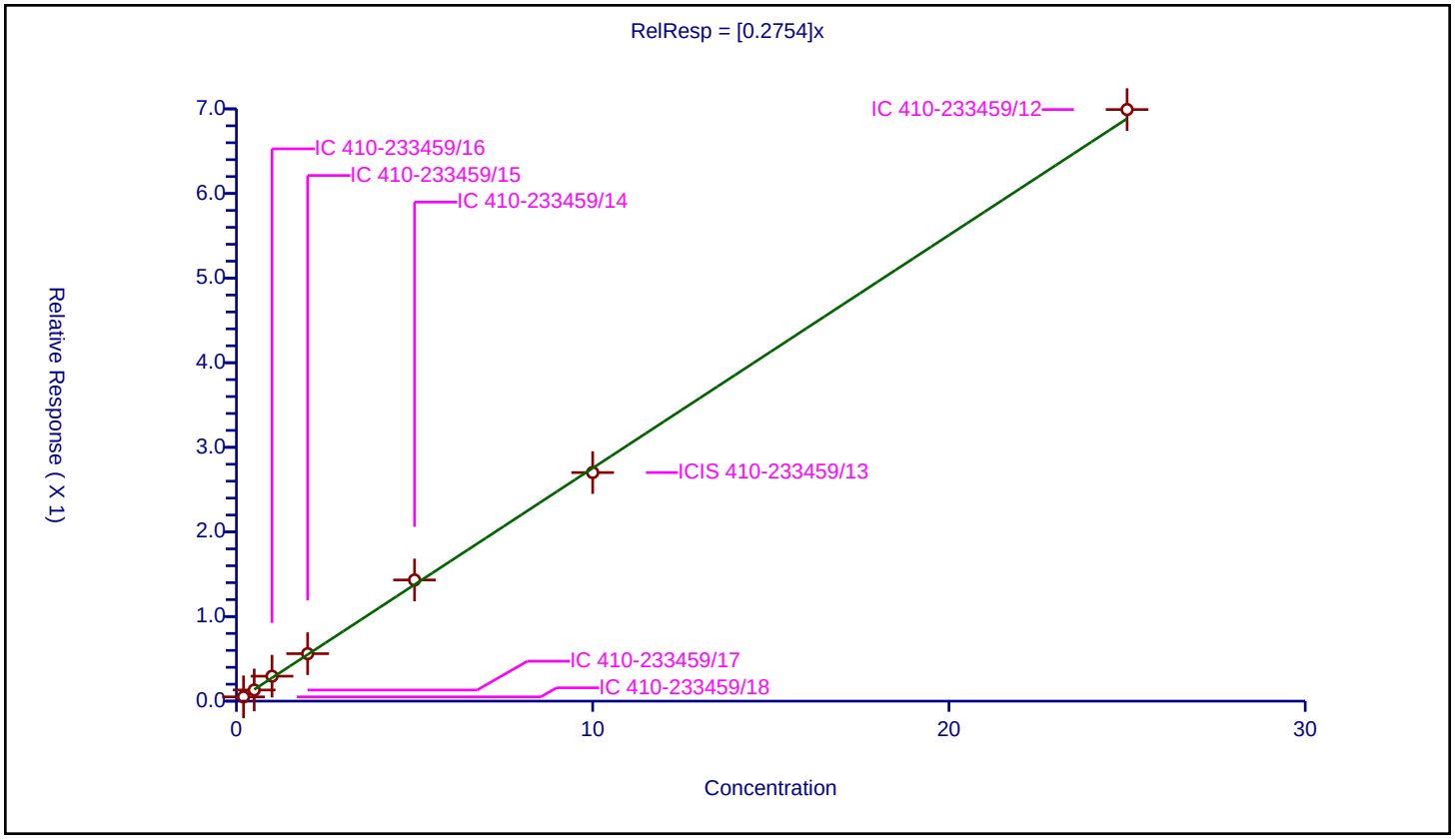
Curve Coefficients

Intercept:	0
Slope:	0.2754

Error Coefficients

Standard Error:	621000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.050489	10.0	2021821.0	0.252446	Y
2	IC 410-233459/17	0.5	0.131719	10.0	2017326.0	0.263438	Y
3	IC 410-233459/16	1.0	0.295029	10.0	2010448.0	0.295029	Y
4	IC 410-233459/15	2.0	0.561021	10.0	2005717.0	0.280511	Y
5	IC 410-233459/14	5.0	1.432398	10.0	2008310.0	0.28648	Y
6	ICIS 410-233459/13	10.0	2.701896	10.0	2018353.0	0.27019	Y
7	IC 410-233459/12	25.0	6.992151	10.0	1979820.0	0.279686	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

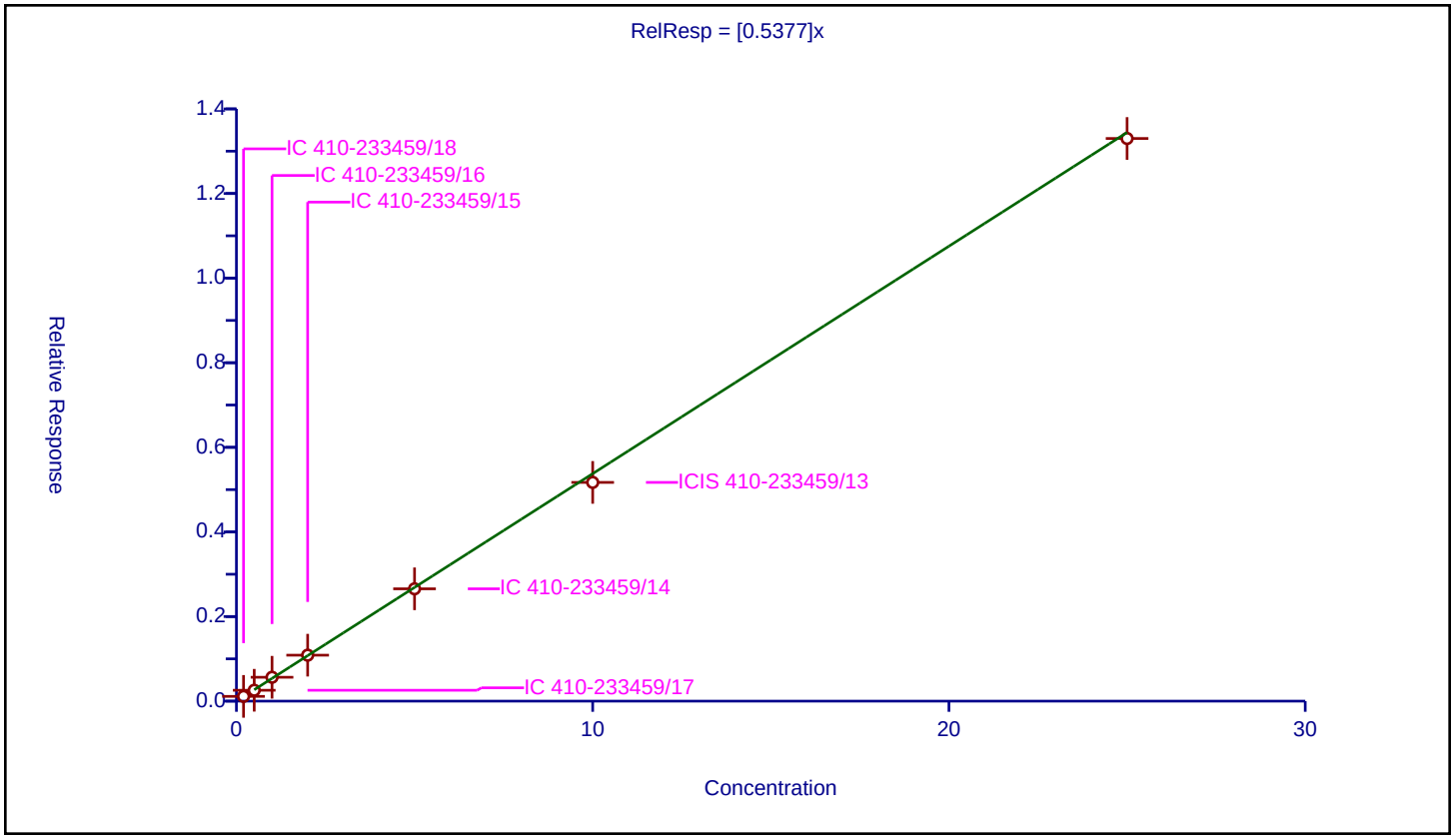
Curve Coefficients

Intercept:	0
Slope:	0.5377

Error Coefficients

Standard Error:	1180000
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 410-233459/18	0.2	0.112255	10.0	2021821.0	0.561276	Y
2	IC 410-233459/17	0.5	0.25747	10.0	2017326.0	0.514939	Y
3	IC 410-233459/16	1.0	0.564496	10.0	2010448.0	0.564496	Y
4	IC 410-233459/15	2.0	1.086479	10.0	2005717.0	0.54324	Y
5	IC 410-233459/14	5.0	2.655292	10.0	2008310.0	0.531058	Y
6	ICIS 410-233459/13	10.0	5.170443	10.0	2018353.0	0.517044	Y
7	IC 410-233459/12	25.0	13.300335	10.0	1979820.0	0.532013	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

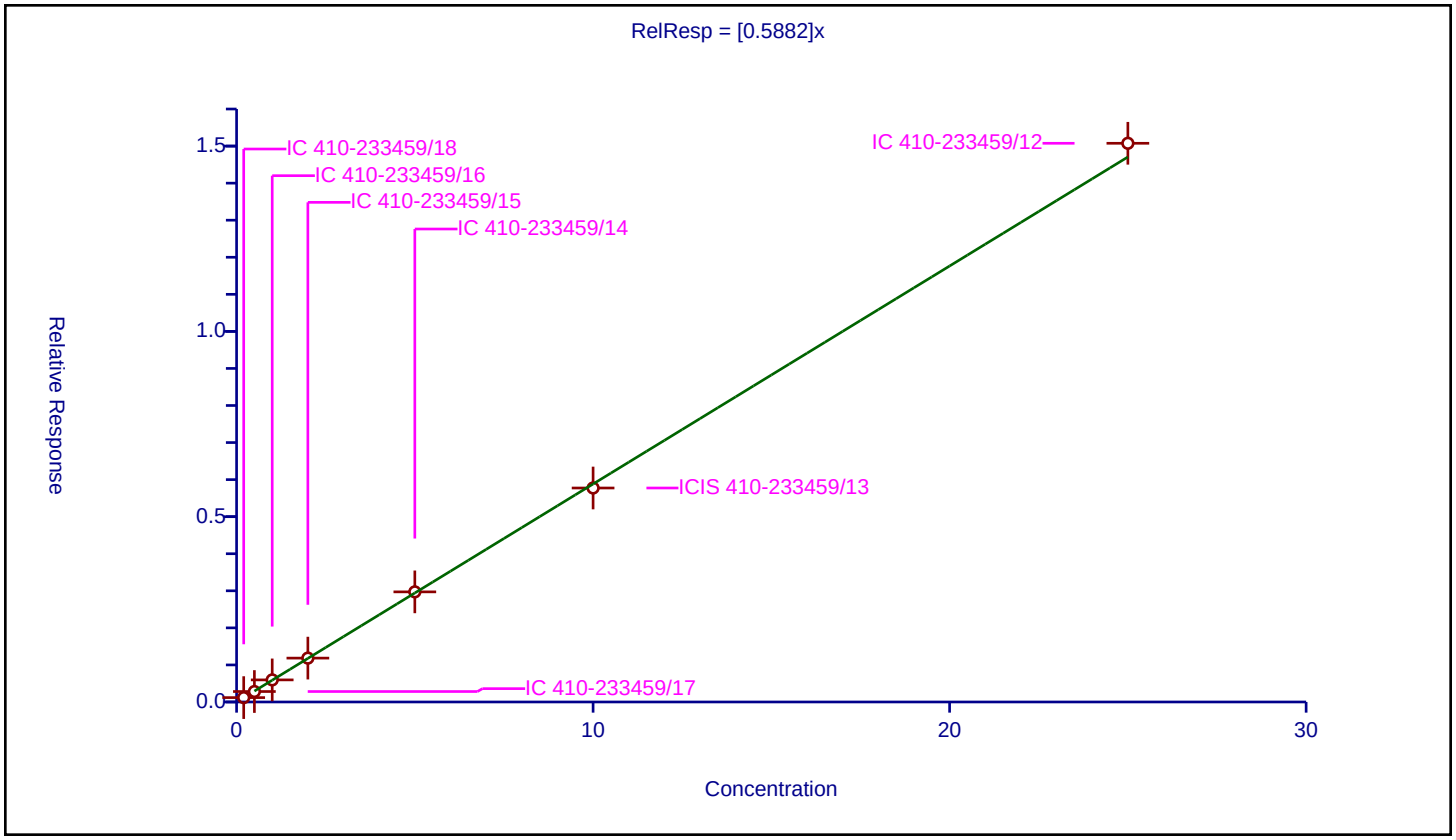
Curve Coefficients

Intercept:	0
Slope:	0.5882

Error Coefficients

Standard Error:	1340000
Relative Standard Error:	2.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.118126	10.0	2021821.0	0.590631	Y
2	IC 410-233459/17	0.5	0.282081	10.0	2017326.0	0.564163	Y
3	IC 410-233459/16	1.0	0.595812	10.0	2010448.0	0.595812	Y
4	IC 410-233459/15	2.0	1.18425	10.0	2005717.0	0.592125	Y
5	IC 410-233459/14	5.0	2.971673	10.0	2008310.0	0.594335	Y
6	ICIS 410-233459/13	10.0	5.774178	10.0	2018353.0	0.577418	Y
7	IC 410-233459/12	25.0	15.075057	10.0	1979820.0	0.603002	Y



Calibration / Methyl acetate

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

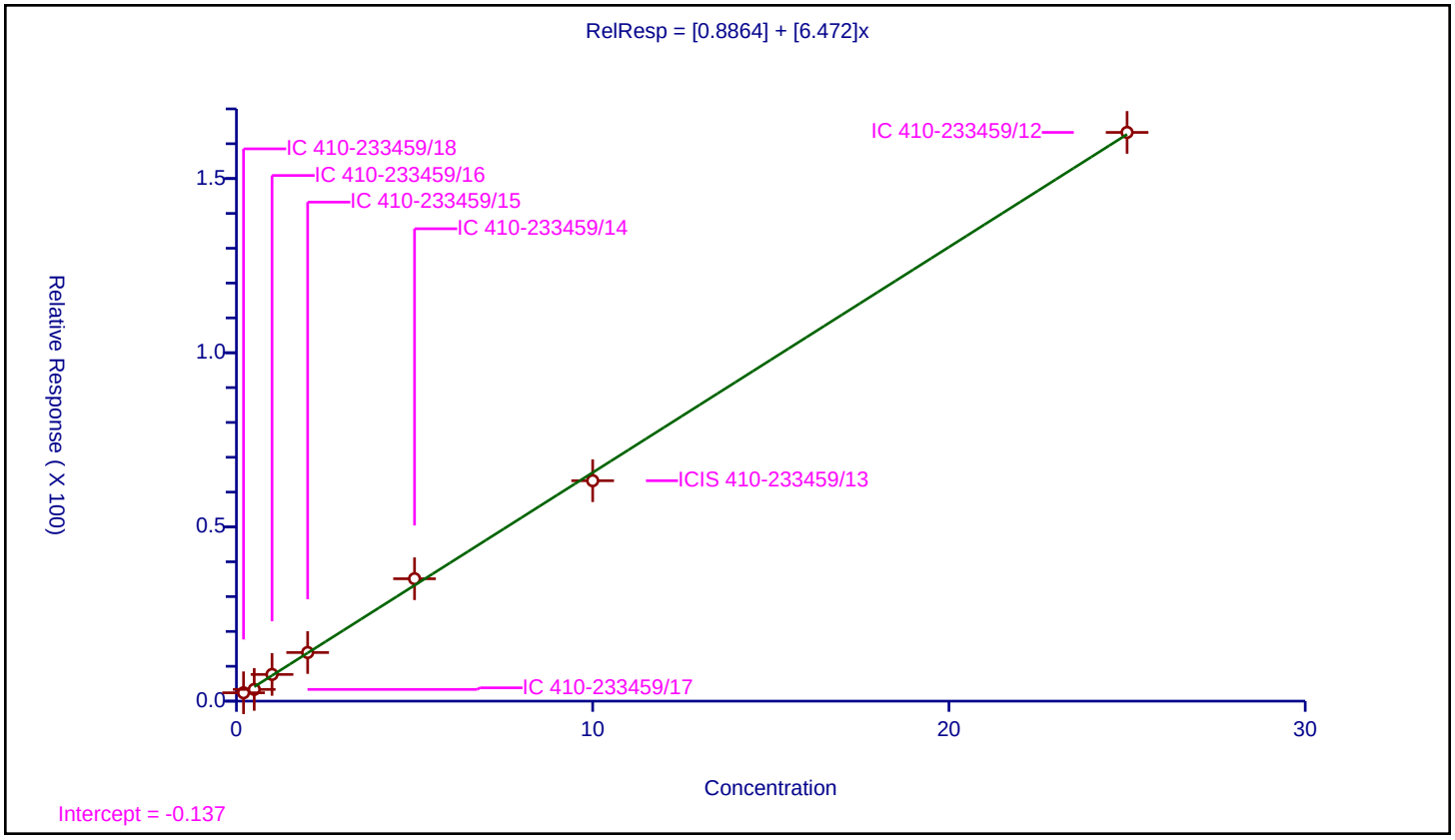
Curve Coefficients

Intercept:	0.8864
Slope:	6.472

Error Coefficients

Standard Error:	240000
Relative Standard Error:	13.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	2.405996	50.0	155632.0	12.029981	Y
2	IC 410-233459/17	0.5	3.369182	50.0	134454.0	6.738364	Y
3	IC 410-233459/16	1.0	7.66665	50.0	144059.0	7.66665	Y
4	IC 410-233459/15	2.0	13.954388	50.0	140927.0	6.977194	Y
5	IC 410-233459/14	5.0	35.136154	50.0	149941.0	7.027231	Y
6	ICIS 410-233459/13	10.0	63.272816	50.0	147286.0	6.327282	Y
7	IC 410-233459/12	25.0	163.247892	50.0	150473.0	6.529916	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

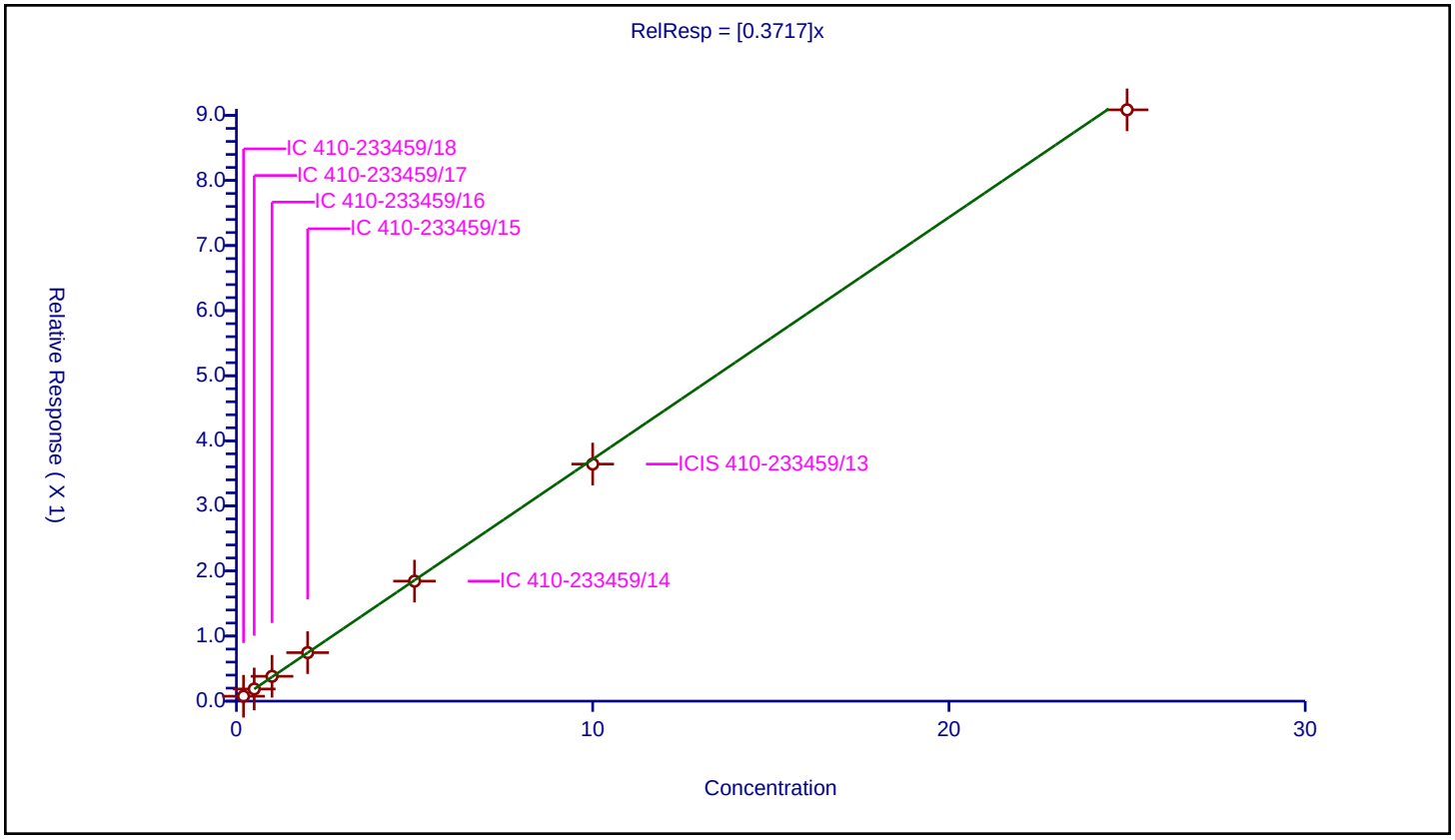
Curve Coefficients

Intercept:	0
Slope:	0.3717

Error Coefficients

Standard Error:	811000
Relative Standard Error:	1.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.075387	10.0	2021821.0	0.376937	Y
2	IC 410-233459/17	0.5	0.186812	10.0	2017326.0	0.373623	Y
3	IC 410-233459/16	1.0	0.382094	10.0	2010448.0	0.382094	Y
4	IC 410-233459/15	2.0	0.745245	10.0	2005717.0	0.372622	Y
5	IC 410-233459/14	5.0	1.843884	10.0	2008310.0	0.368777	Y
6	ICIS 410-233459/13	10.0	3.642445	10.0	2018353.0	0.364245	Y
7	IC 410-233459/12	25.0	9.085185	10.0	1979820.0	0.363407	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

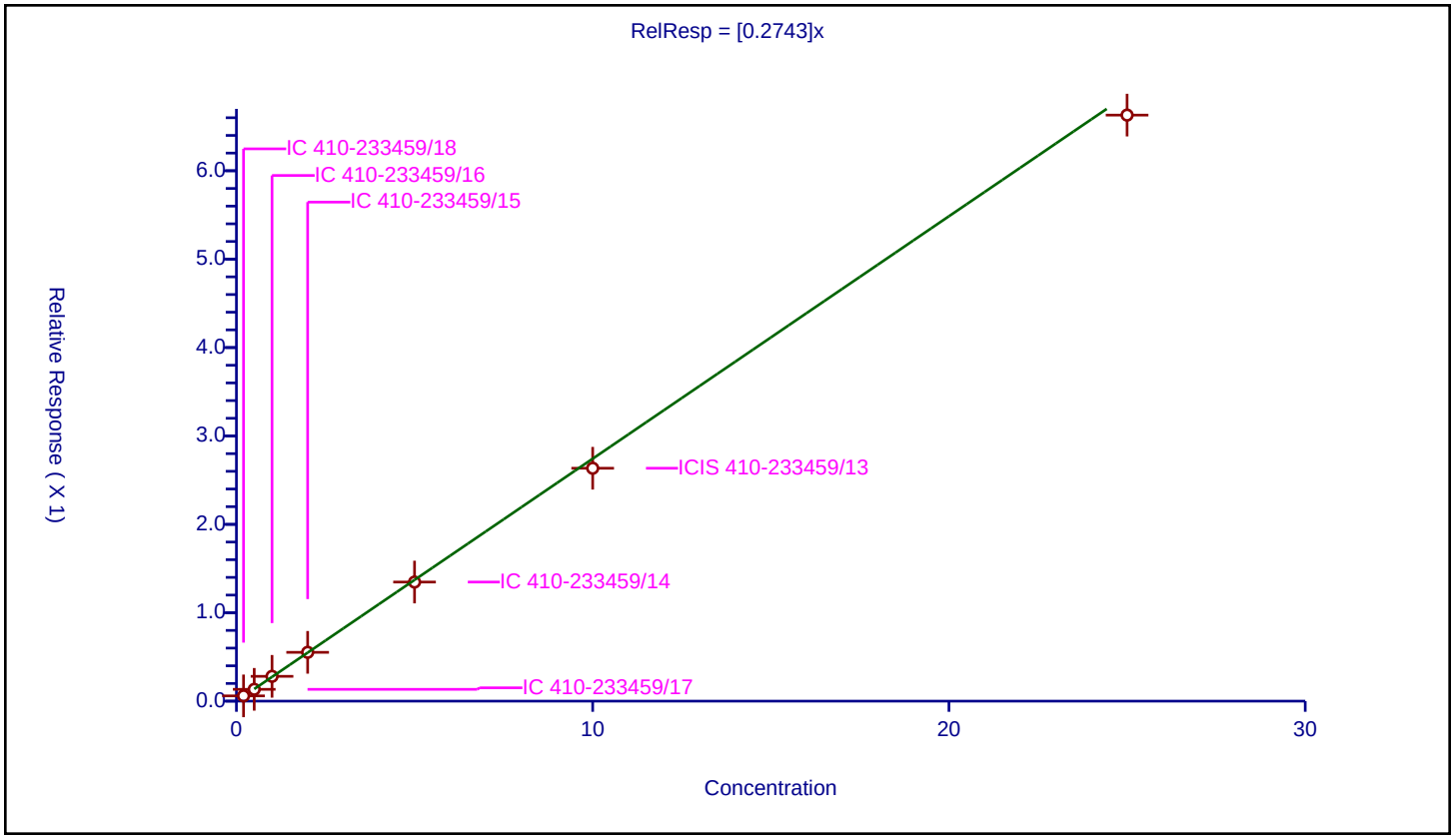
Curve Coefficients

Intercept:	0
Slope:	0.2743

Error Coefficients

Standard Error:	591000
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 410-233459/18	0.2	0.059629	10.0	2021821.0	0.298147	Y
2	IC 410-233459/17	0.5	0.133513	10.0	2017326.0	0.267027	Y
3	IC 410-233459/16	1.0	0.28052	10.0	2010448.0	0.28052	Y
4	IC 410-233459/15	2.0	0.552142	10.0	2005717.0	0.276071	Y
5	IC 410-233459/14	5.0	1.347187	10.0	2008310.0	0.269437	Y
6	ICIS 410-233459/13	10.0	2.634807	10.0	2018353.0	0.263481	Y
7	IC 410-233459/12	25.0	6.62987	10.0	1979820.0	0.265195	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

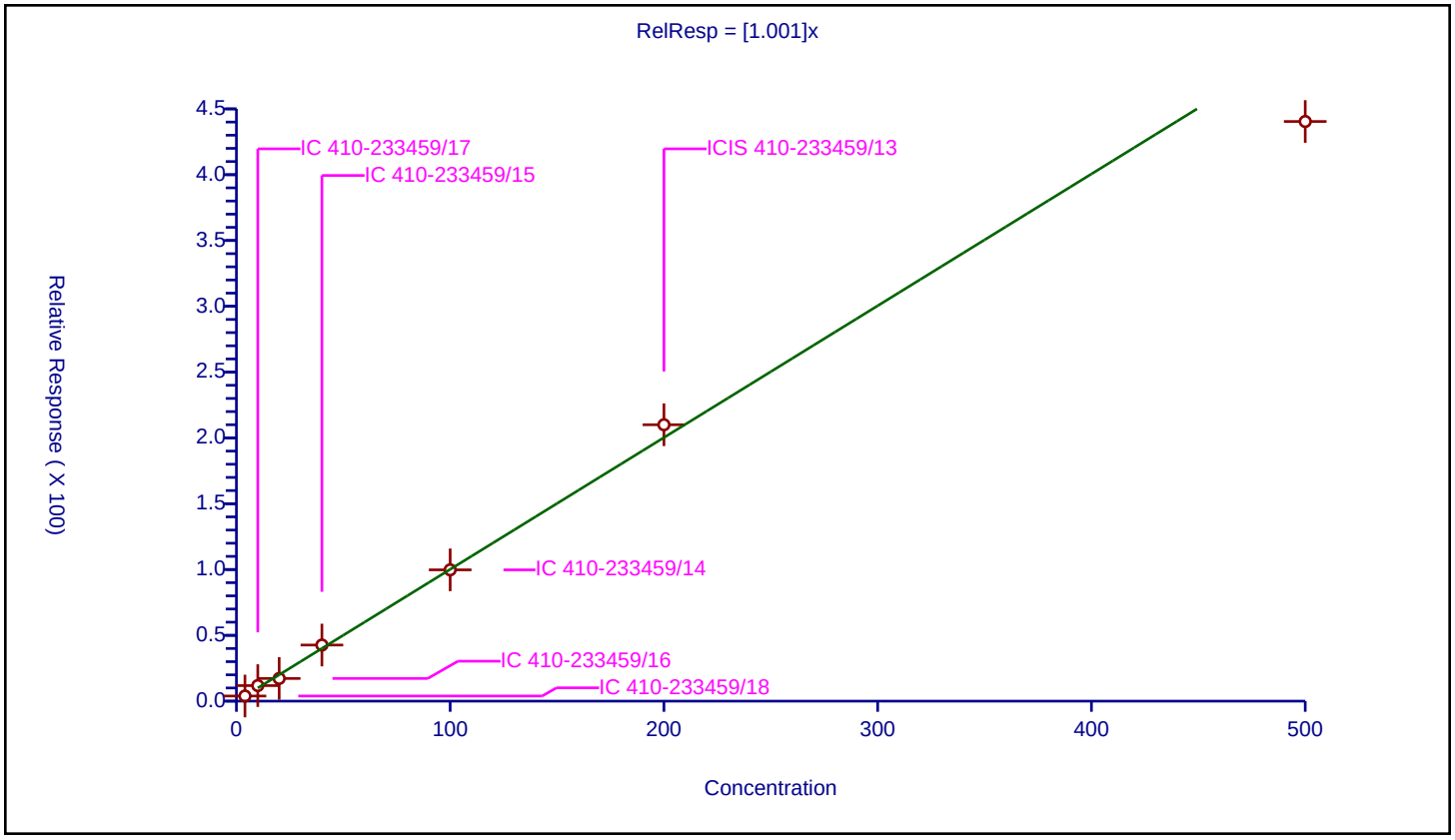
Curve Coefficients

Intercept:	0
Slope:	1.001

Error Coefficients

Standard Error:	612000
Relative Standard Error:	11.1
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	4.0	3.890267	50.0	155632.0	0.972567	Y
2	IC 410-233459/17	10.0	11.81259	50.0	134454.0	1.181259	Y
3	IC 410-233459/16	20.0	17.229052	50.0	144059.0	0.861453	Y
4	IC 410-233459/15	40.0	42.634839	50.0	140927.0	1.065871	Y
5	IC 410-233459/14	100.0	99.764908	50.0	149941.0	0.997649	Y
6	ICIS 410-233459/13	200.0	210.00129	50.0	147286.0	1.050006	Y
7	IC 410-233459/12	500.0	440.422534	50.0	150473.0	0.880845	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

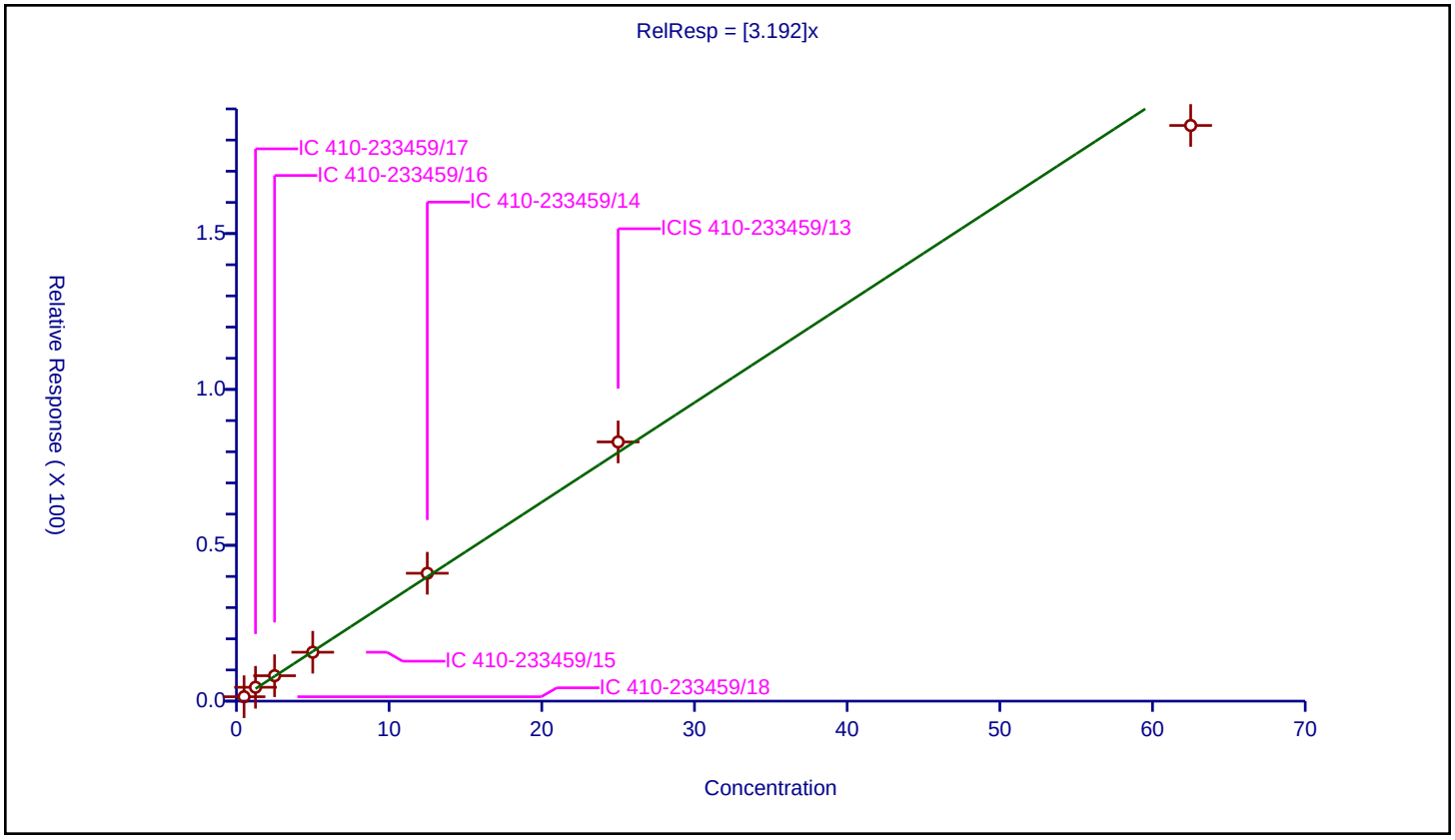
Curve Coefficients

Intercept:	0
Slope:	3.192

Error Coefficients

Standard Error:	254000
Relative Standard Error:	7.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.5	1.411985	50.0	155632.0	2.823969	Y
2	IC 410-233459/17	1.25	4.447618	50.0	134454.0	3.558094	Y
3	IC 410-233459/16	2.5	8.15291	50.0	144059.0	3.261164	Y
4	IC 410-233459/15	5.0	15.690748	50.0	140927.0	3.13815	Y
5	IC 410-233459/14	12.5	41.024136	50.0	149941.0	3.281931	Y
6	ICIS 410-233459/13	25.0	83.161332	50.0	147286.0	3.326453	Y
7	IC 410-233459/12	62.5	184.687951	50.0	150473.0	2.955007	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

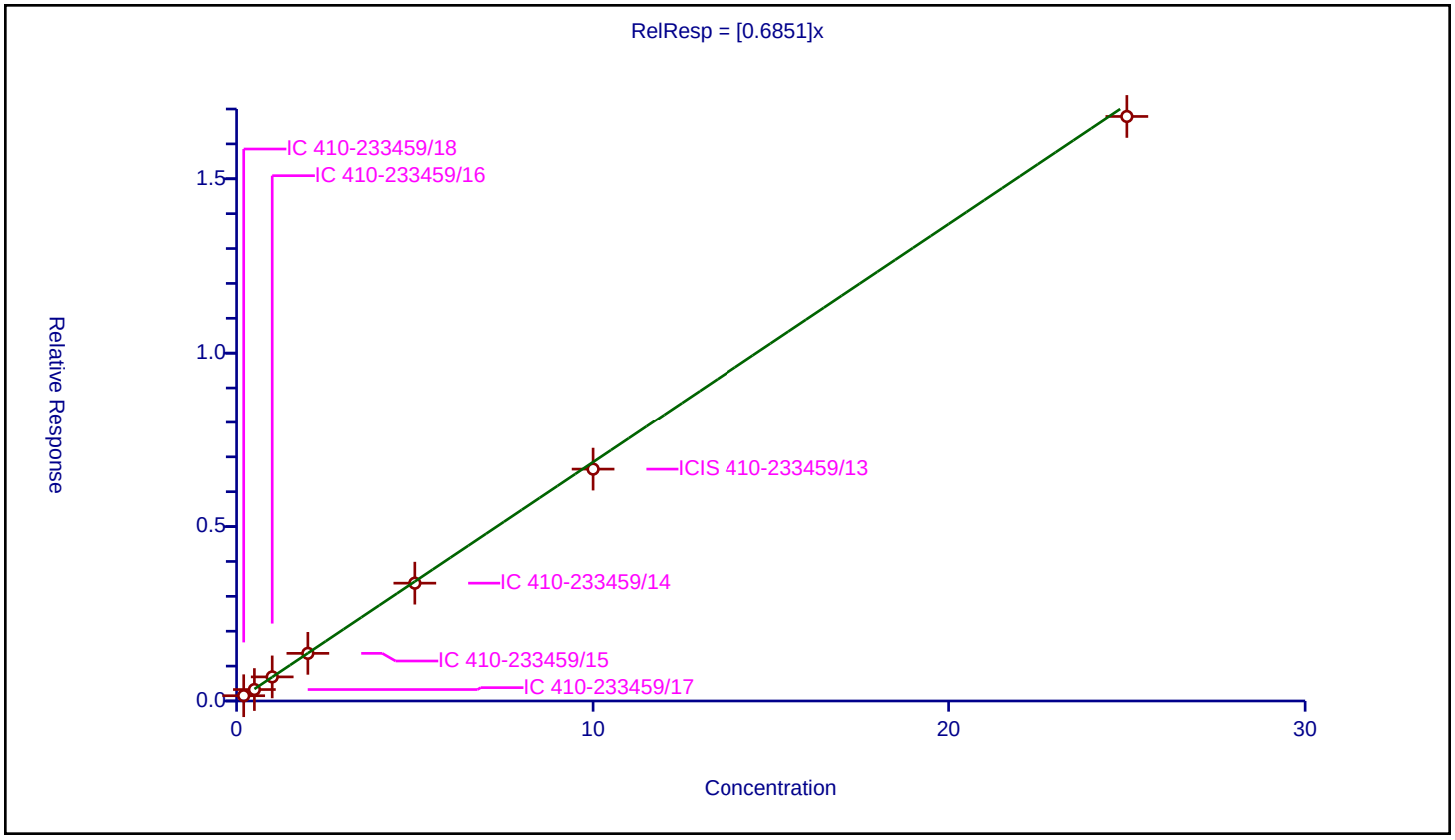
Curve Coefficients

Intercept:	0
Slope:	0.6851

Error Coefficients

Standard Error:	1490000
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 410-233459/18	0.2	0.150844	10.0	2021821.0	0.754221	Y
2	IC 410-233459/17	0.5	0.328142	10.0	2017326.0	0.656285	Y
3	IC 410-233459/16	1.0	0.690503	10.0	2010448.0	0.690503	Y
4	IC 410-233459/15	2.0	1.366065	10.0	2005717.0	0.683033	Y
5	IC 410-233459/14	5.0	3.378194	10.0	2008310.0	0.675639	Y
6	ICIS 410-233459/13	10.0	6.648337	10.0	2018353.0	0.664834	Y
7	IC 410-233459/12	25.0	16.786324	10.0	1979820.0	0.671453	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

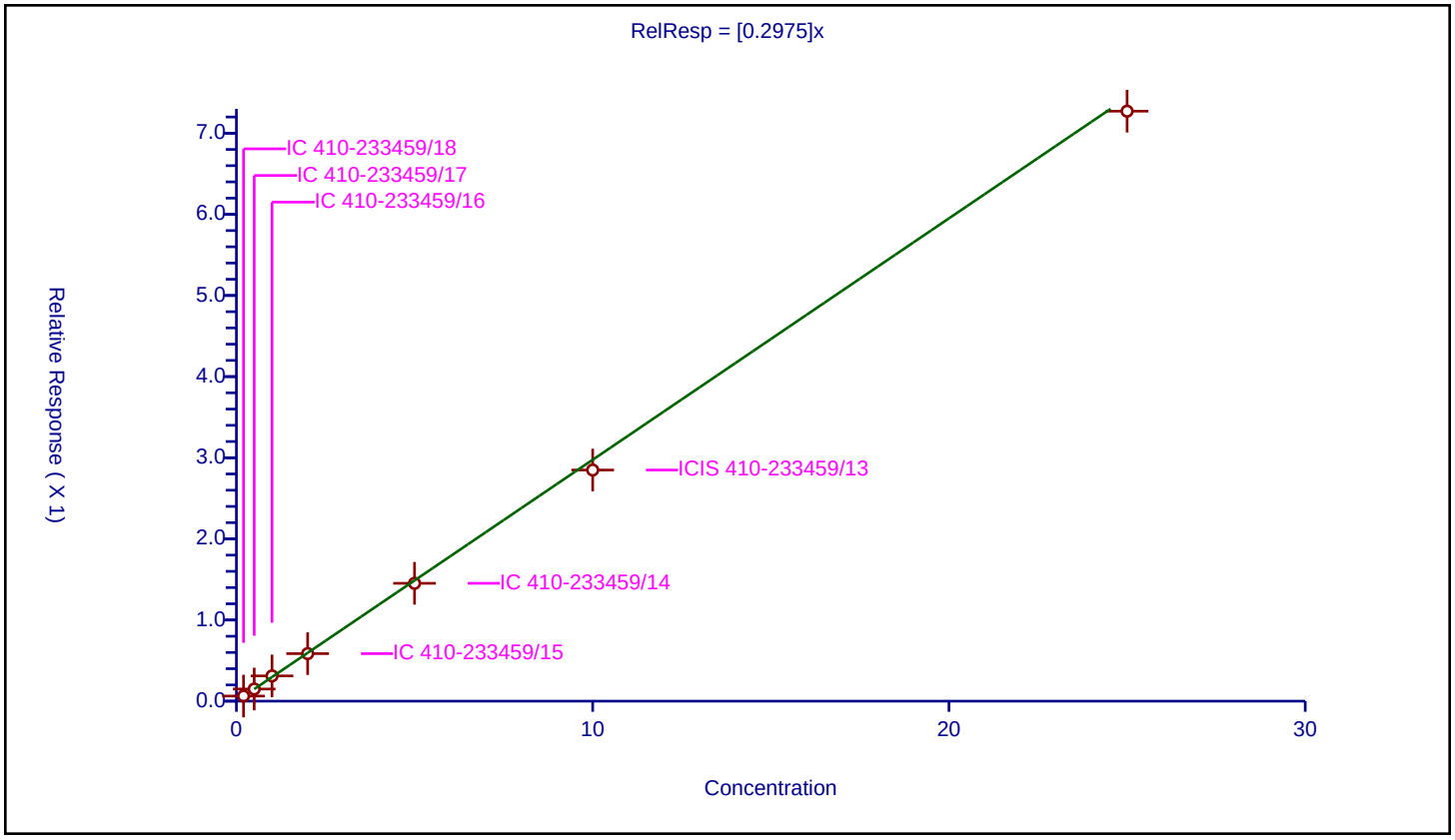
Curve Coefficients

Intercept:	0
Slope:	0.2975

Error Coefficients

Standard Error:	646000
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 410-233459/18	0.2	0.062716	10.0	2021821.0	0.313579	Y
2	IC 410-233459/17	0.5	0.14949	10.0	2017326.0	0.29898	Y
3	IC 410-233459/16	1.0	0.310941	10.0	2010448.0	0.310941	Y
4	IC 410-233459/15	2.0	0.585726	10.0	2005717.0	0.292863	Y
5	IC 410-233459/14	5.0	1.45254	10.0	2008310.0	0.290508	Y
6	ICIS 410-233459/13	10.0	2.848818	10.0	2018353.0	0.284882	Y
7	IC 410-233459/12	25.0	7.271626	10.0	1979820.0	0.290865	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

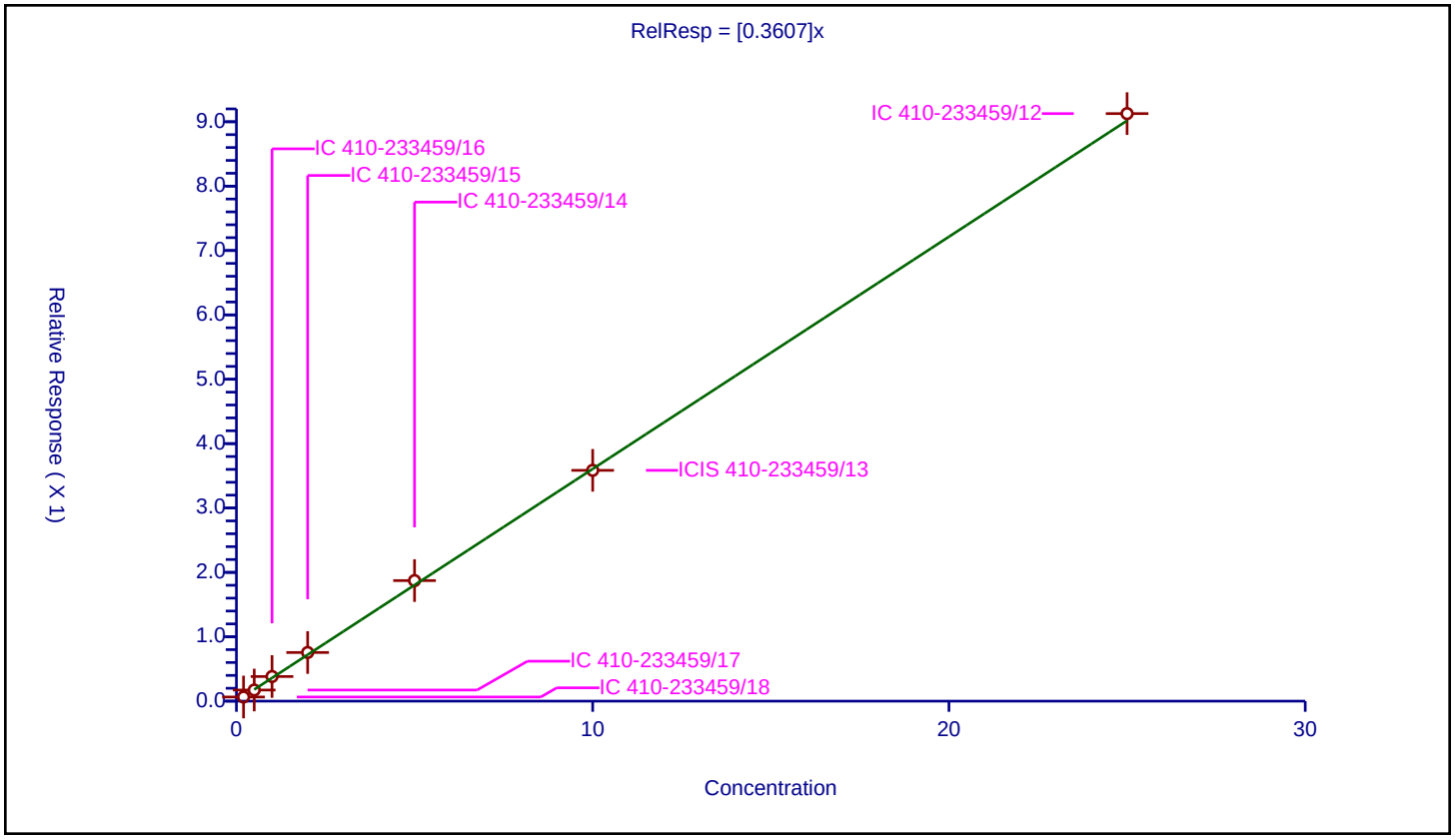
Curve Coefficients

Intercept:	0
Slope:	0.3607

Error Coefficients

Standard Error:	812000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.064214	10.0	2021821.0	0.321072	Y
2	IC 410-233459/17	0.5	0.172634	10.0	2017326.0	0.345269	Y
3	IC 410-233459/16	1.0	0.382676	10.0	2010448.0	0.382676	Y
4	IC 410-233459/15	2.0	0.7555	10.0	2005717.0	0.37775	Y
5	IC 410-233459/14	5.0	1.872943	10.0	2008310.0	0.374589	Y
6	ICIS 410-233459/13	10.0	3.585245	10.0	2018353.0	0.358524	Y
7	IC 410-233459/12	25.0	9.126734	10.0	1979820.0	0.365069	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

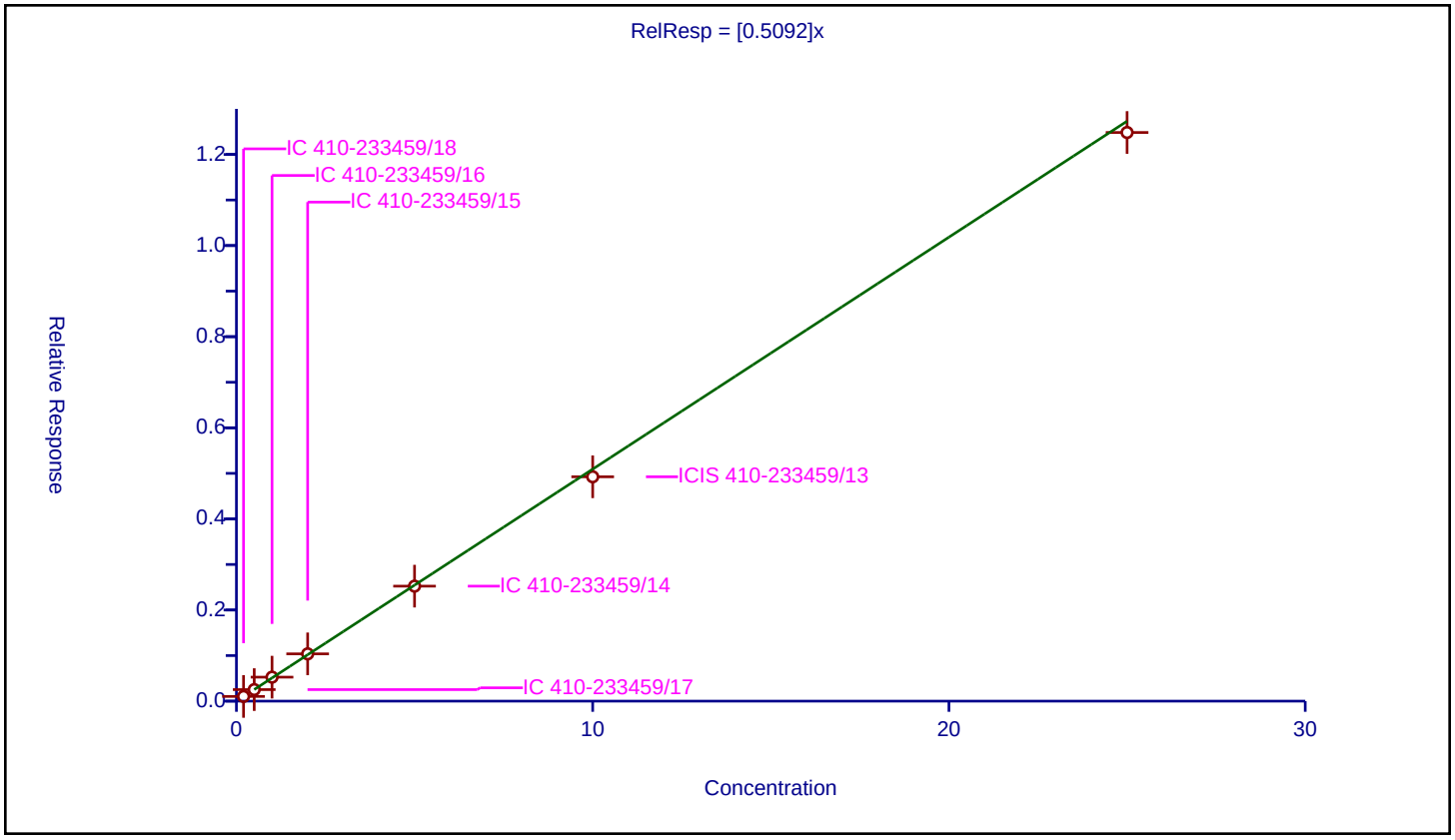
Curve Coefficients

Intercept:	0
Slope:	0.5092

Error Coefficients

Standard Error:	1110000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.10309	10.0	2021821.0	0.515451	Y
2	IC 410-233459/17	0.5	0.25342	10.0	2017326.0	0.506839	Y
3	IC 410-233459/16	1.0	0.526694	10.0	2010448.0	0.526694	Y
4	IC 410-233459/15	2.0	1.037948	10.0	2005717.0	0.518974	Y
5	IC 410-233459/14	5.0	2.524202	10.0	2008310.0	0.50484	Y
6	ICIS 410-233459/13	10.0	4.924352	10.0	2018353.0	0.492435	Y
7	IC 410-233459/12	25.0	12.482306	10.0	1979820.0	0.499292	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

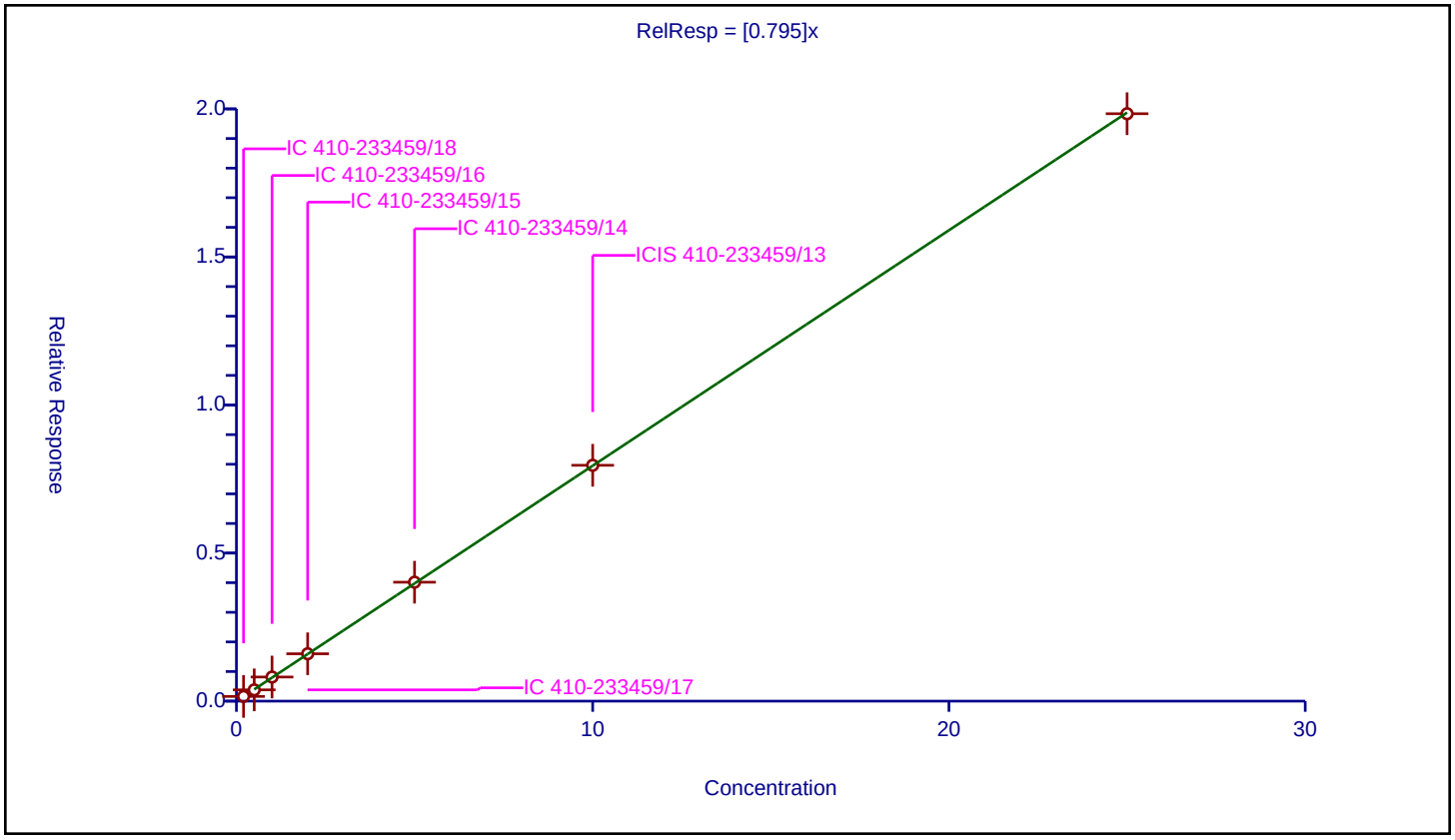
Curve Coefficients

Intercept:	0
Slope:	0.795

Error Coefficients

Standard Error:	1770000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.159173	10.0	2021821.0	0.795867	Y
2	IC 410-233459/17	0.5	0.381158	10.0	2017326.0	0.762316	Y
3	IC 410-233459/16	1.0	0.813978	10.0	2010448.0	0.813978	Y
4	IC 410-233459/15	2.0	1.599952	10.0	2005717.0	0.799976	Y
5	IC 410-233459/14	5.0	4.016417	10.0	2008310.0	0.803283	Y
6	ICIS 410-233459/13	10.0	7.96441	10.0	2018353.0	0.796441	Y
7	IC 410-233459/12	25.0	19.83701	10.0	1979820.0	0.79348	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

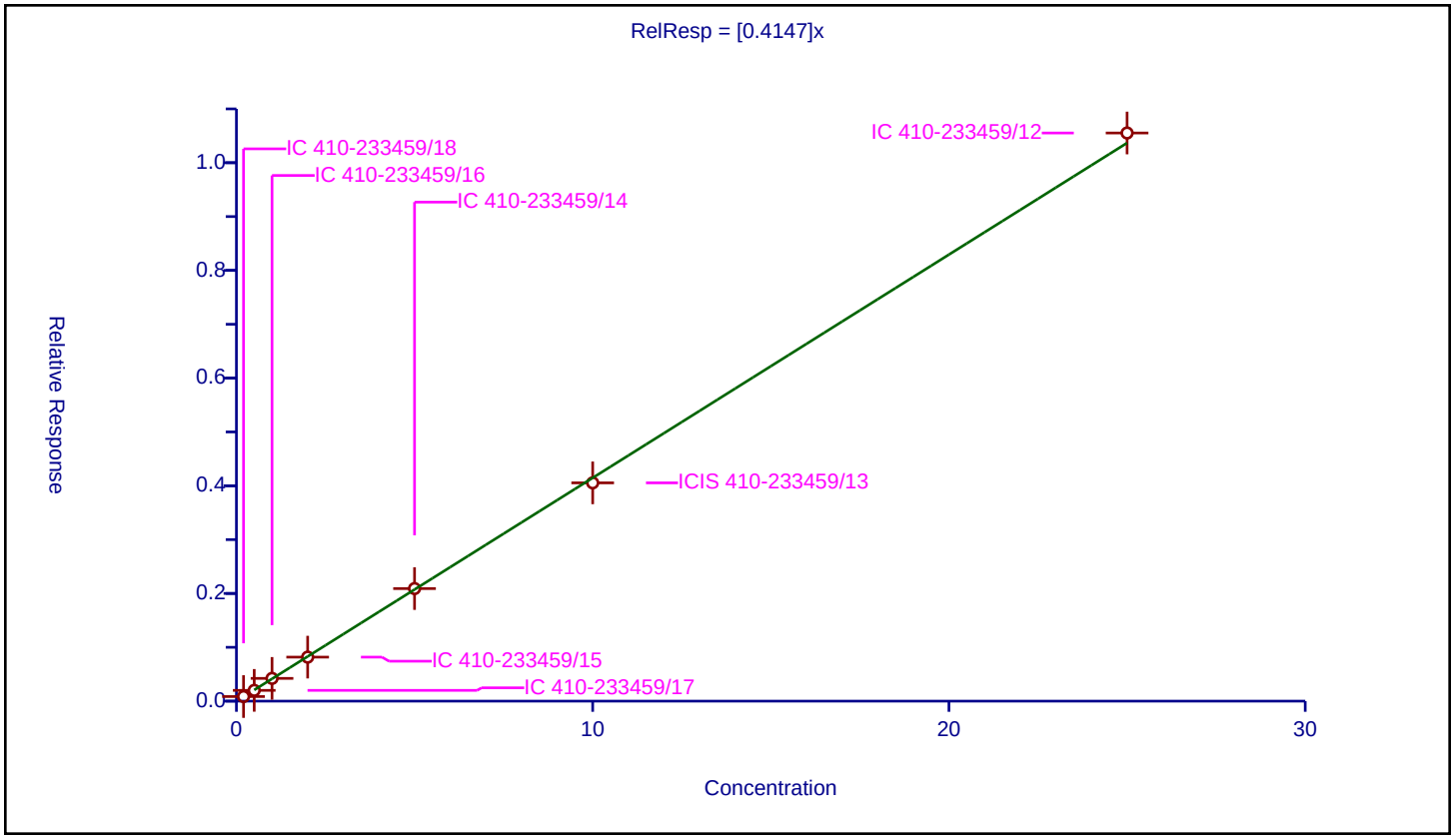
Curve Coefficients

Intercept:	0
Slope:	0.4147

Error Coefficients

Standard Error:	935000
Relative Standard Error:	2.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.085126	10.0	2021821.0	0.425631	Y
2	IC 410-233459/17	0.5	0.200161	10.0	2017326.0	0.400322	Y
3	IC 410-233459/16	1.0	0.422508	10.0	2010448.0	0.422508	Y
4	IC 410-233459/15	2.0	0.817453	10.0	2005717.0	0.408727	Y
5	IC 410-233459/14	5.0	2.090753	10.0	2008310.0	0.418151	Y
6	ICIS 410-233459/13	10.0	4.054212	10.0	2018353.0	0.405421	Y
7	IC 410-233459/12	25.0	10.55255	10.0	1979820.0	0.422102	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

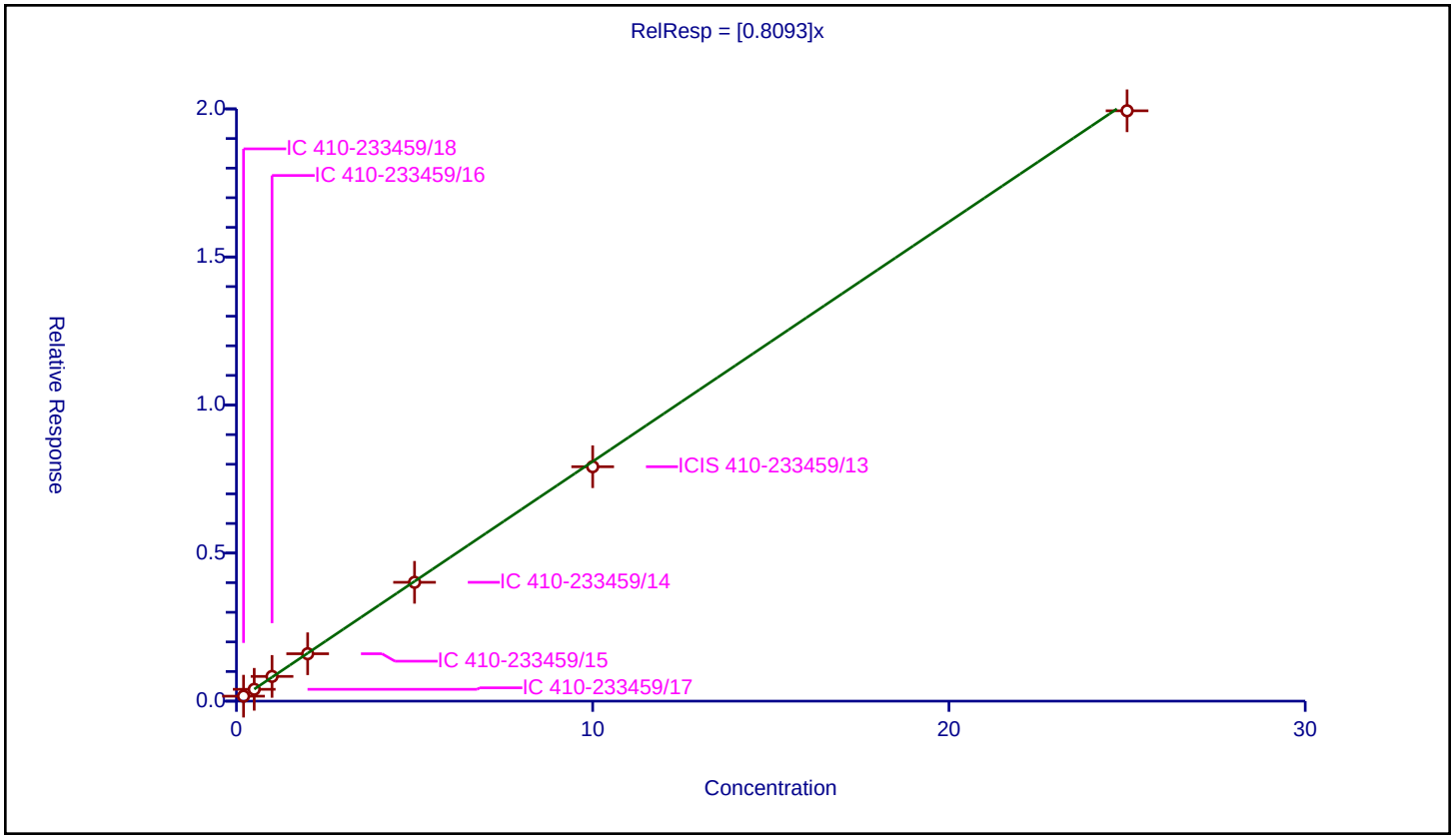
Curve Coefficients

Intercept:	0
Slope:	0.8093

Error Coefficients

Standard Error:	1780000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.167596	10.0	2021821.0	0.837982	Y
2	IC 410-233459/17	0.5	0.400025	10.0	2017326.0	0.800049	Y
3	IC 410-233459/16	1.0	0.835078	10.0	2010448.0	0.835078	Y
4	IC 410-233459/15	2.0	1.60043	10.0	2005717.0	0.800215	Y
5	IC 410-233459/14	5.0	4.012857	10.0	2008310.0	0.802571	Y
6	ICIS 410-233459/13	10.0	7.9159	10.0	2018353.0	0.79159	Y
7	IC 410-233459/12	25.0	19.936519	10.0	1979820.0	0.797461	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

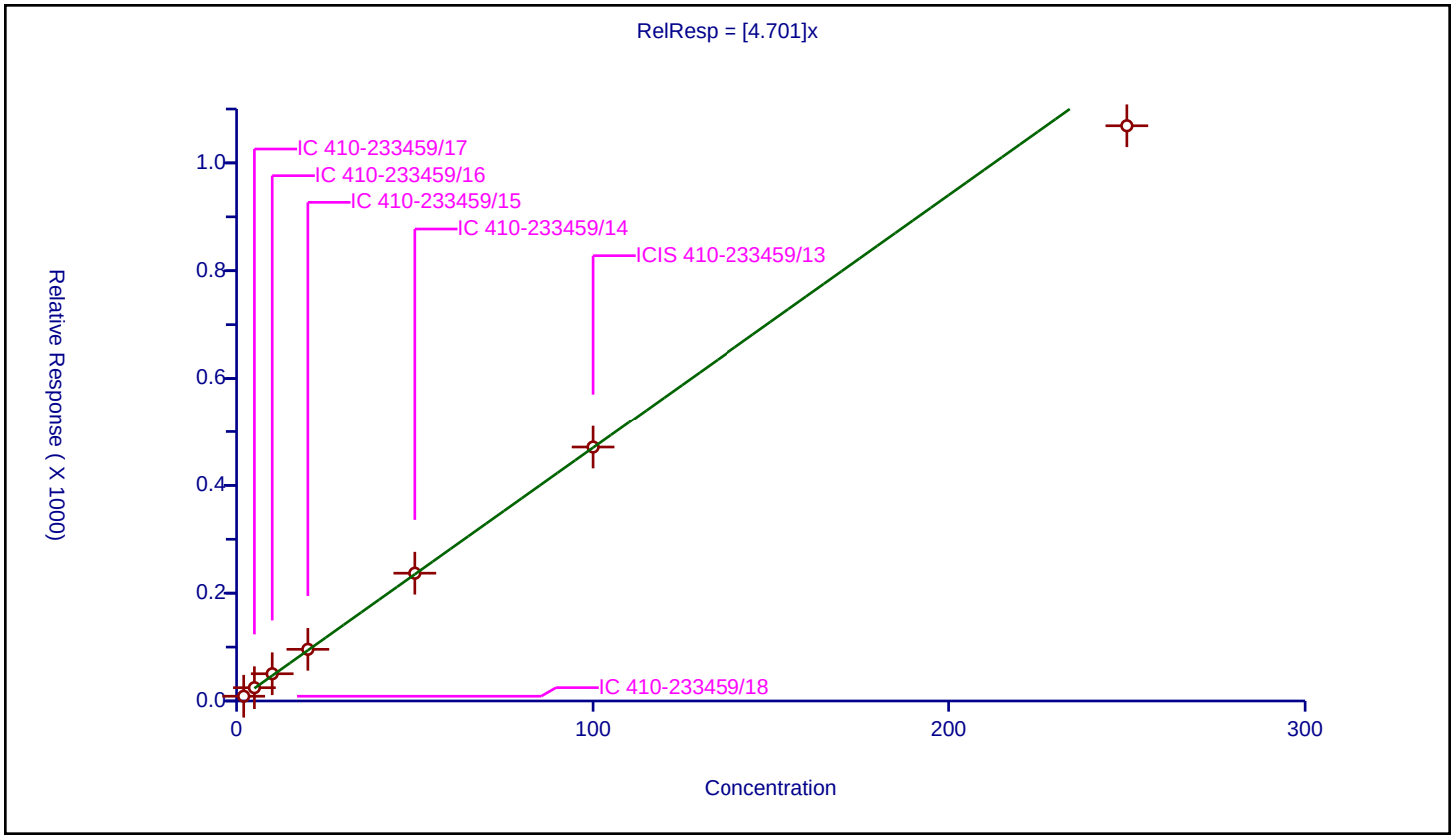
Curve Coefficients

Intercept:	0
Slope:	4.701

Error Coefficients

Standard Error:	1460000
Relative Standard Error:	5.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	2.0	8.807636	50.0	155632.0	4.403818	Y
2	IC 410-233459/17	5.0	24.663826	50.0	134454.0	4.932765	Y
3	IC 410-233459/16	10.0	50.508819	50.0	144059.0	5.050882	Y
4	IC 410-233459/15	20.0	95.850334	50.0	140927.0	4.792517	Y
5	IC 410-233459/14	50.0	237.058576	50.0	149941.0	4.741172	Y
6	ICIS 410-233459/13	100.0	471.136428	50.0	147286.0	4.711364	Y
7	IC 410-233459/12	250.0	1068.914024	50.0	150473.0	4.275656	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

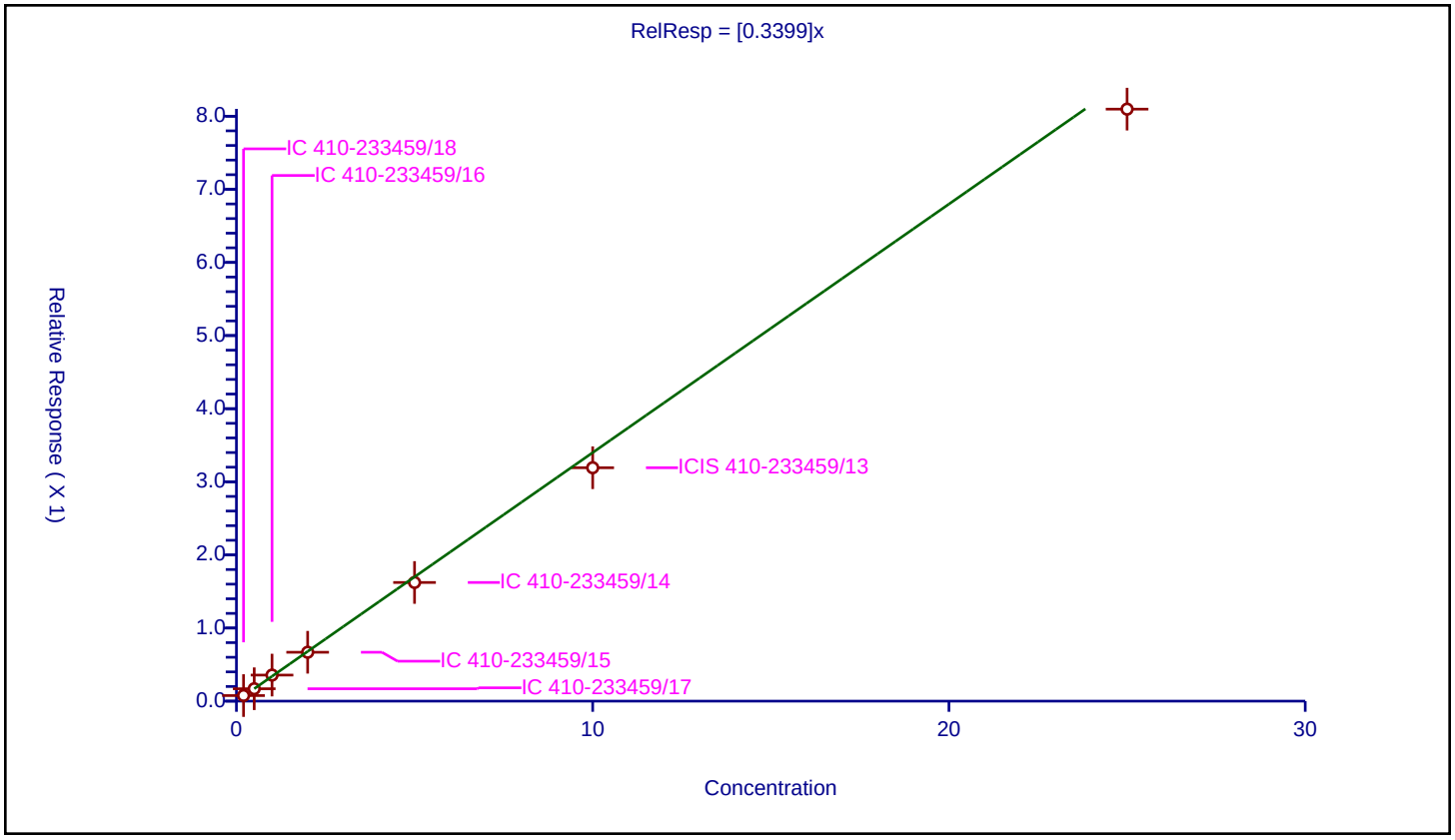
Curve Coefficients

Intercept:	0
Slope:	0.3399

Error Coefficients

Standard Error:	721000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.076327	10.0	2021821.0	0.381636	Y
2	IC 410-233459/17	0.5	0.169715	10.0	2017326.0	0.33943	Y
3	IC 410-233459/16	1.0	0.356319	10.0	2010448.0	0.356319	Y
4	IC 410-233459/15	2.0	0.668594	10.0	2005717.0	0.334297	Y
5	IC 410-233459/14	5.0	1.623111	10.0	2008310.0	0.324622	Y
6	ICIS 410-233459/13	10.0	3.192088	10.0	2018353.0	0.319209	Y
7	IC 410-233459/12	25.0	8.096817	10.0	1979820.0	0.323873	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

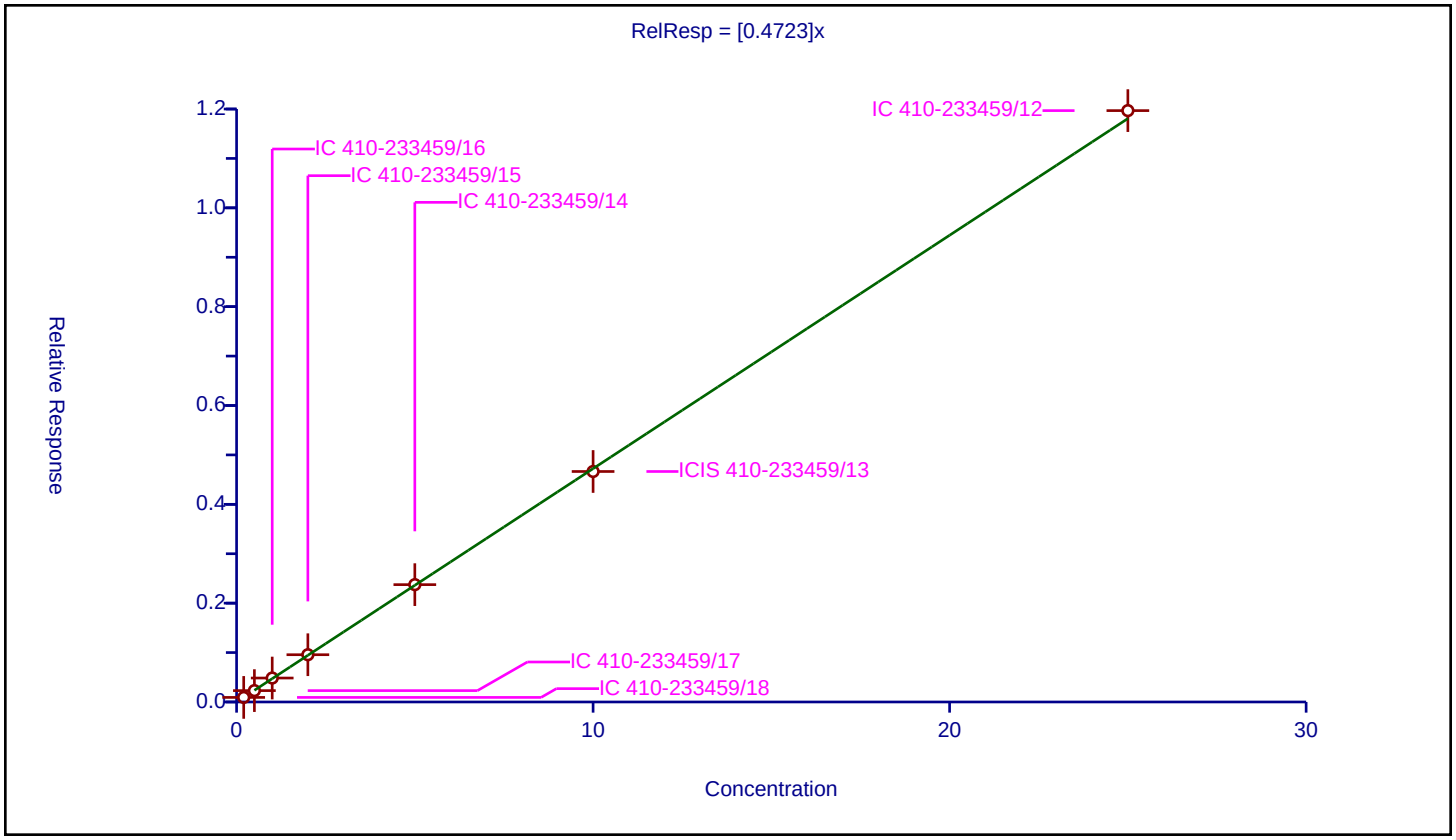
Curve Coefficients

Intercept:	0
Slope:	0.4723

Error Coefficients

Standard Error:	1060000
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 410-233459/18	0.2	0.092441	10.0	2021821.0	0.462207	Y
2	IC 410-233459/17	0.5	0.23033	10.0	2017326.0	0.460659	Y
3	IC 410-233459/16	1.0	0.484713	10.0	2010448.0	0.484713	Y
4	IC 410-233459/15	2.0	0.956406	10.0	2005717.0	0.478203	Y
5	IC 410-233459/14	5.0	2.374628	10.0	2008310.0	0.474926	Y
6	ICIS 410-233459/13	10.0	4.664362	10.0	2018353.0	0.466436	Y
7	IC 410-233459/12	25.0	11.967835	10.0	1979820.0	0.478713	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

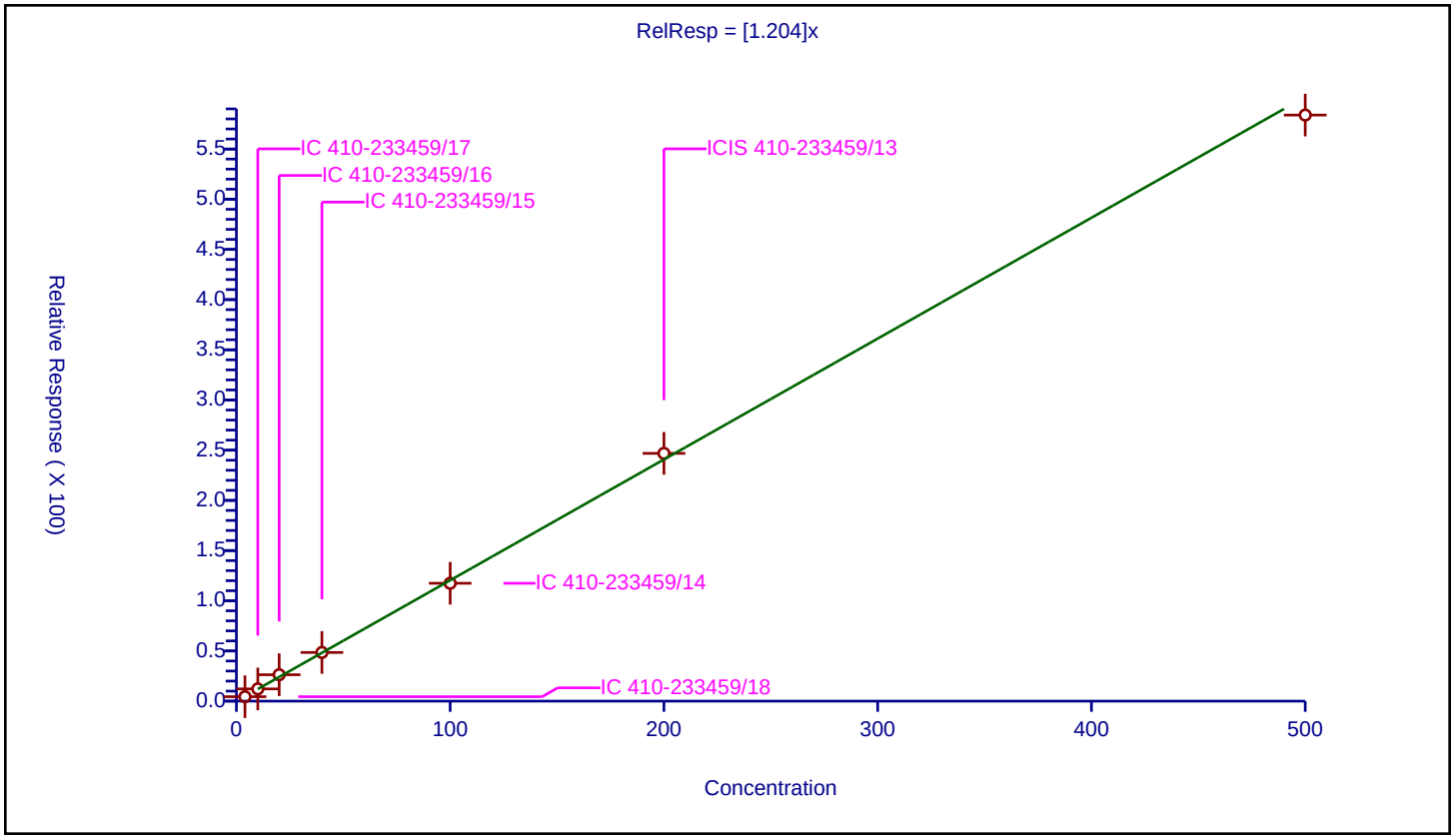
Curve Coefficients

Intercept:	0
Slope:	1.204

Error Coefficients

Standard Error:	792000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	4.0	4.411689	50.0	155632.0	1.102922	Y
2	IC 410-233459/17	10.0	12.20343	50.0	134454.0	1.220343	Y
3	IC 410-233459/16	20.0	26.302071	50.0	144059.0	1.315104	Y
4	IC 410-233459/15	40.0	48.489998	50.0	140927.0	1.21225	Y
5	IC 410-233459/14	100.0	117.427855	50.0	149941.0	1.174279	Y
6	ICIS 410-233459/13	200.0	246.848648	50.0	147286.0	1.234243	Y
7	IC 410-233459/12	500.0	583.845939	50.0	150473.0	1.167692	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

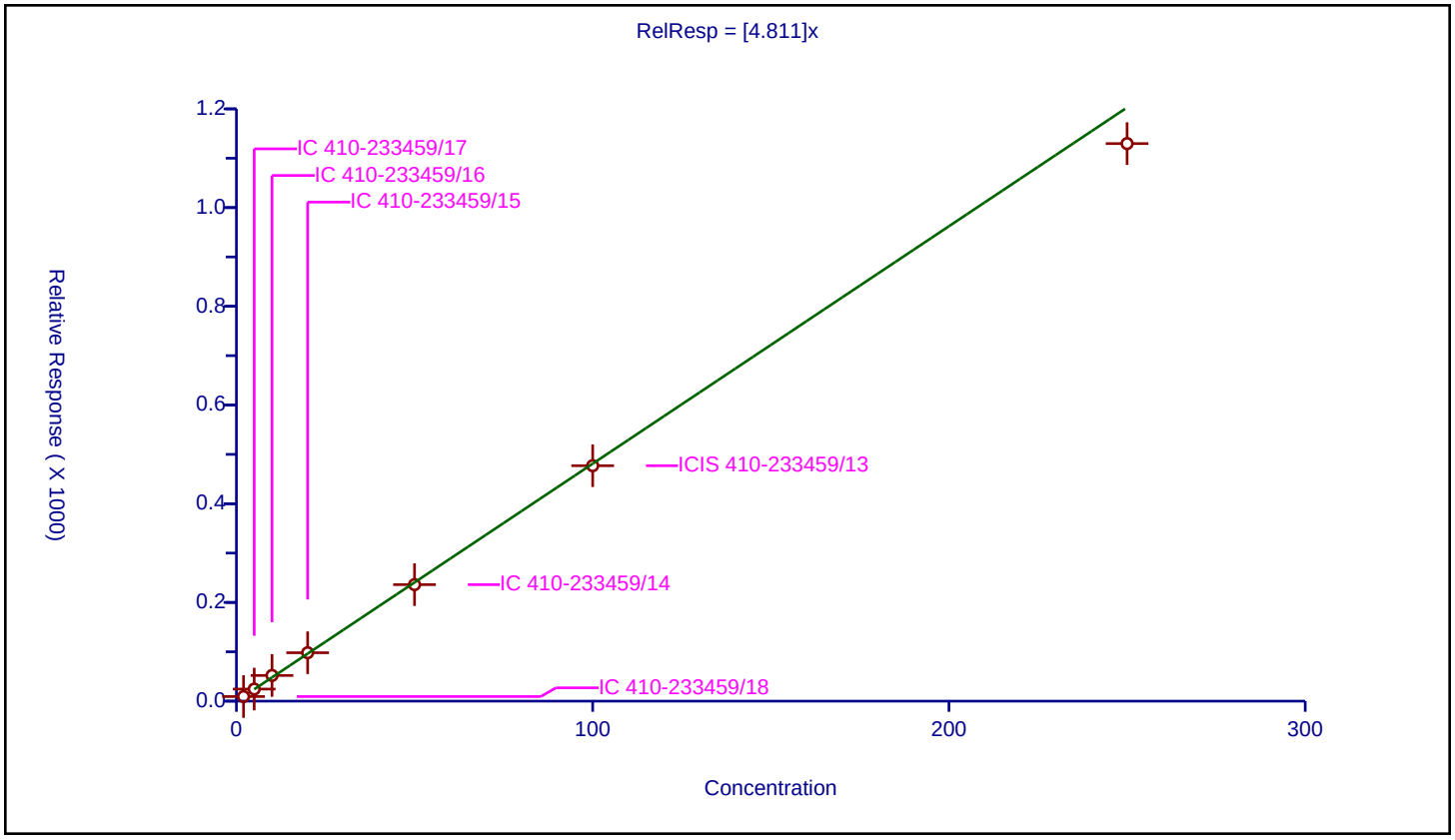
Curve Coefficients

Intercept:	0
Slope:	4.811

Error Coefficients

Standard Error:	1530000
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 410-233459/18	2.0	9.329058	50.0	155632.0	4.664529	Y
2	IC 410-233459/17	5.0	24.469707	50.0	134454.0	4.893941	Y
3	IC 410-233459/16	10.0	52.061308	50.0	144059.0	5.206131	Y
4	IC 410-233459/15	20.0	98.069213	50.0	140927.0	4.903461	Y
5	IC 410-233459/14	50.0	236.071855	50.0	149941.0	4.721437	Y
6	ICIS 410-233459/13	100.0	477.007319	50.0	147286.0	4.770073	Y
7	IC 410-233459/12	250.0	1129.67343	50.0	150473.0	4.518694	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

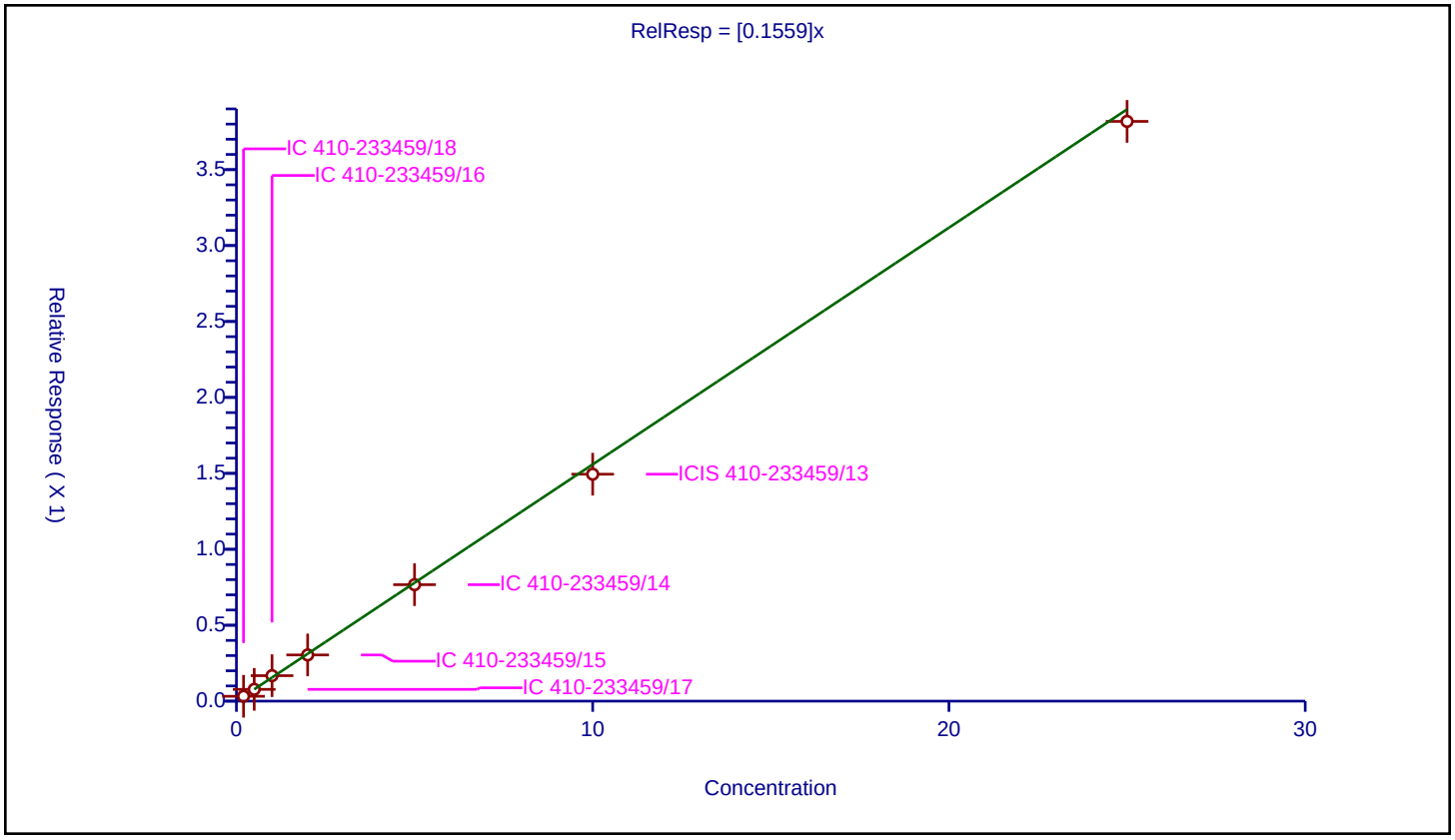
Curve Coefficients

Intercept:	0
Slope:	0.1559

Error Coefficients

Standard Error:	339000
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 410-233459/18	0.2	0.032085	10.0	2021821.0	0.160425	Y
2	IC 410-233459/17	0.5	0.077672	10.0	2017326.0	0.155344	Y
3	IC 410-233459/16	1.0	0.167774	10.0	2010448.0	0.167774	Y
4	IC 410-233459/15	2.0	0.304285	10.0	2005717.0	0.152143	Y
5	IC 410-233459/14	5.0	0.766799	10.0	2008310.0	0.15336	Y
6	ICIS 410-233459/13	10.0	1.494352	10.0	2018353.0	0.149435	Y
7	IC 410-233459/12	25.0	3.81768	10.0	1979820.0	0.152707	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

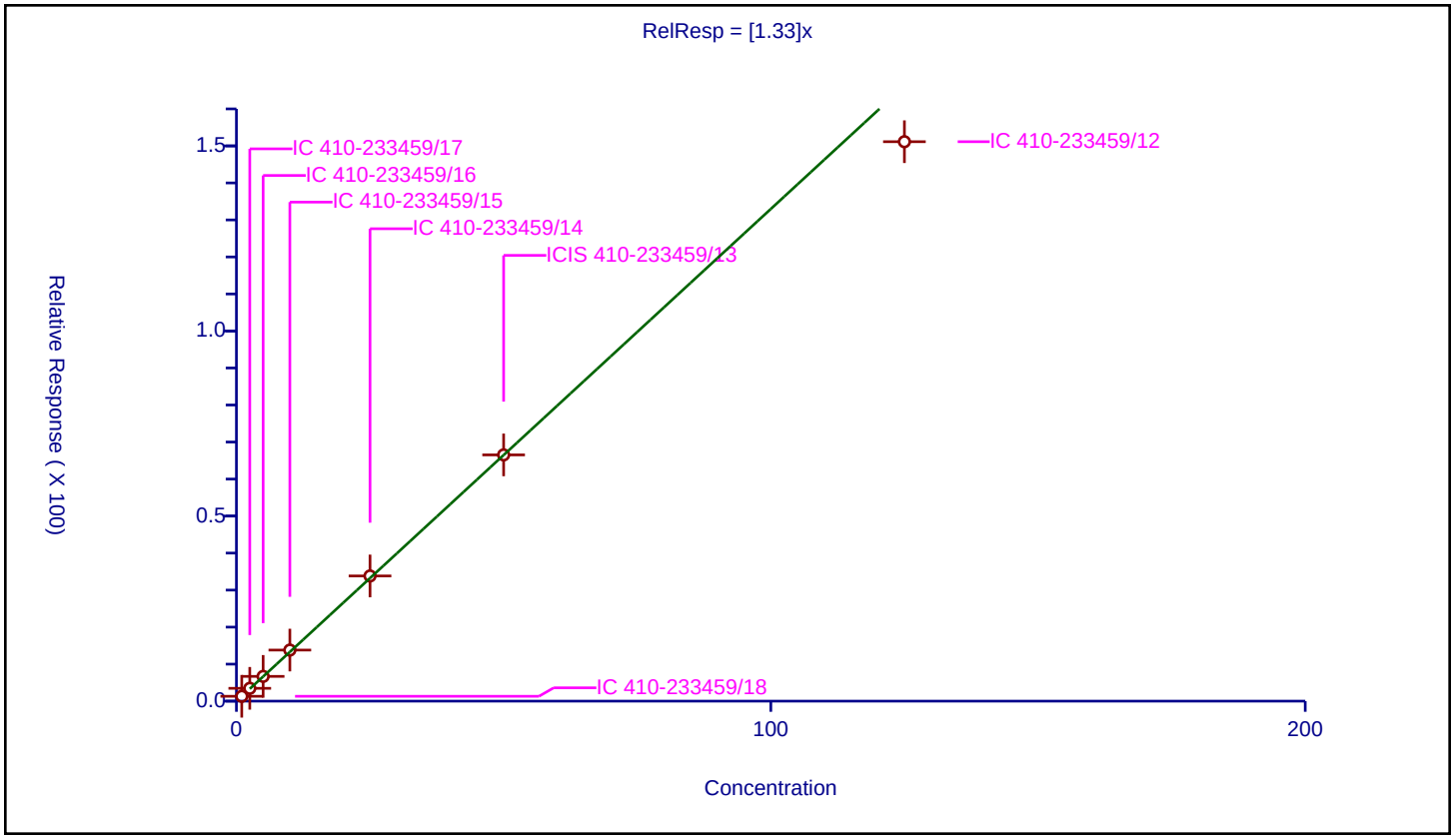
Curve Coefficients

Intercept:	0
Slope:	1.33

Error Coefficients

Standard Error:	207000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	1.0	1.312712	50.0	155632.0	1.312712	Y
2	IC 410-233459/17	2.5	3.463266	50.0	134454.0	1.385306	Y
3	IC 410-233459/16	5.0	6.687538	50.0	144059.0	1.337508	Y
4	IC 410-233459/15	10.0	13.796859	50.0	140927.0	1.379686	Y
5	IC 410-233459/14	25.0	33.821303	50.0	149941.0	1.352852	Y
6	ICIS 410-233459/13	50.0	66.525671	50.0	147286.0	1.330513	Y
7	IC 410-233459/12	125.0	151.138078	50.0	150473.0	1.209105	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

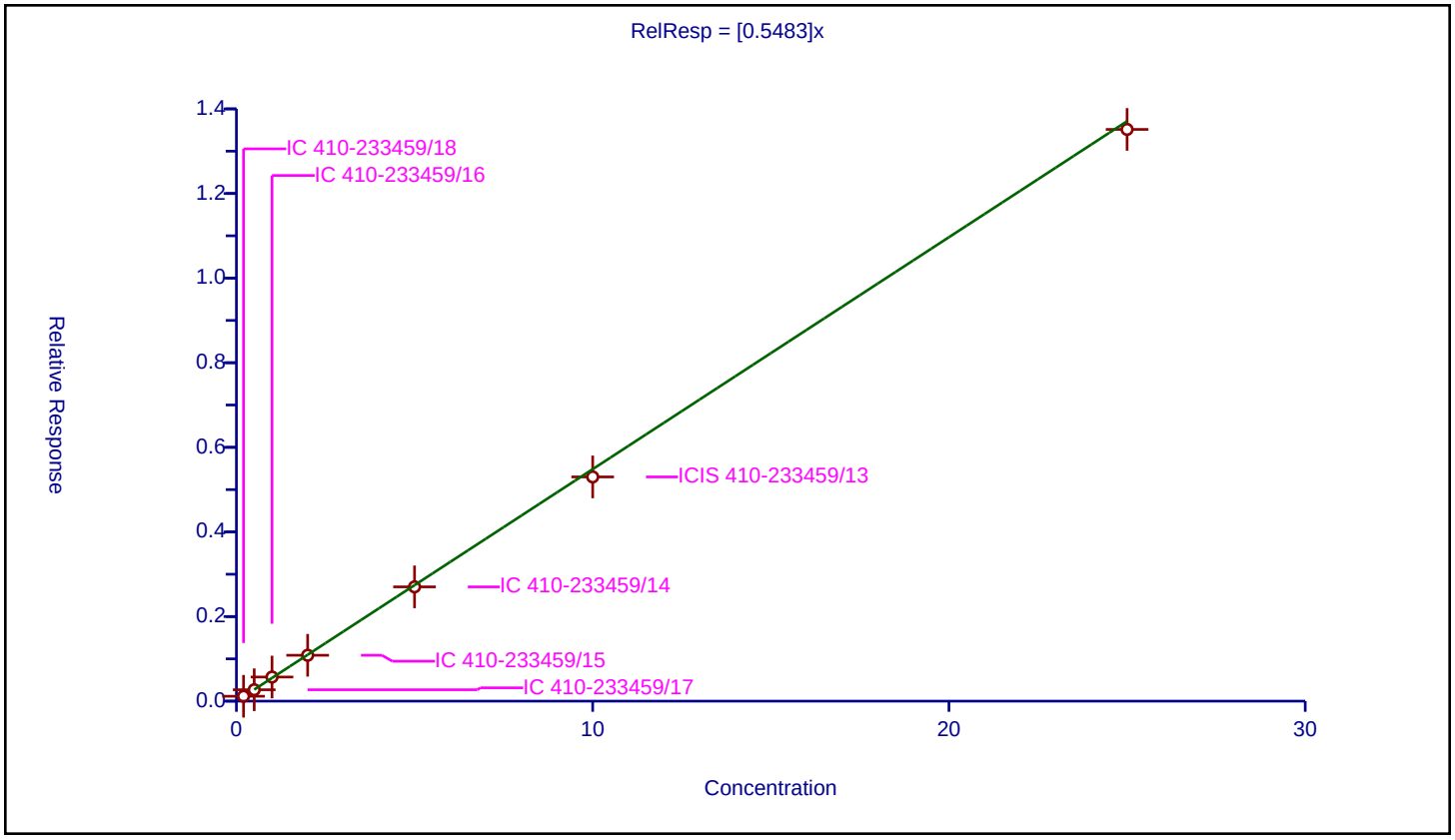
Curve Coefficients

Intercept:	0
Slope:	0.5483

Error Coefficients

Standard Error:	1200000
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 410-233459/18	0.2	0.115445	10.0	2021821.0	0.577227	Y
2	IC 410-233459/17	0.5	0.269024	10.0	2017326.0	0.538049	Y
3	IC 410-233459/16	1.0	0.570047	10.0	2010448.0	0.570047	Y
4	IC 410-233459/15	2.0	1.084315	10.0	2005717.0	0.542158	Y
5	IC 410-233459/14	5.0	2.701421	10.0	2008310.0	0.540284	Y
6	ICIS 410-233459/13	10.0	5.30054	10.0	2018353.0	0.530054	Y
7	IC 410-233459/12	25.0	13.514653	10.0	1979820.0	0.540586	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

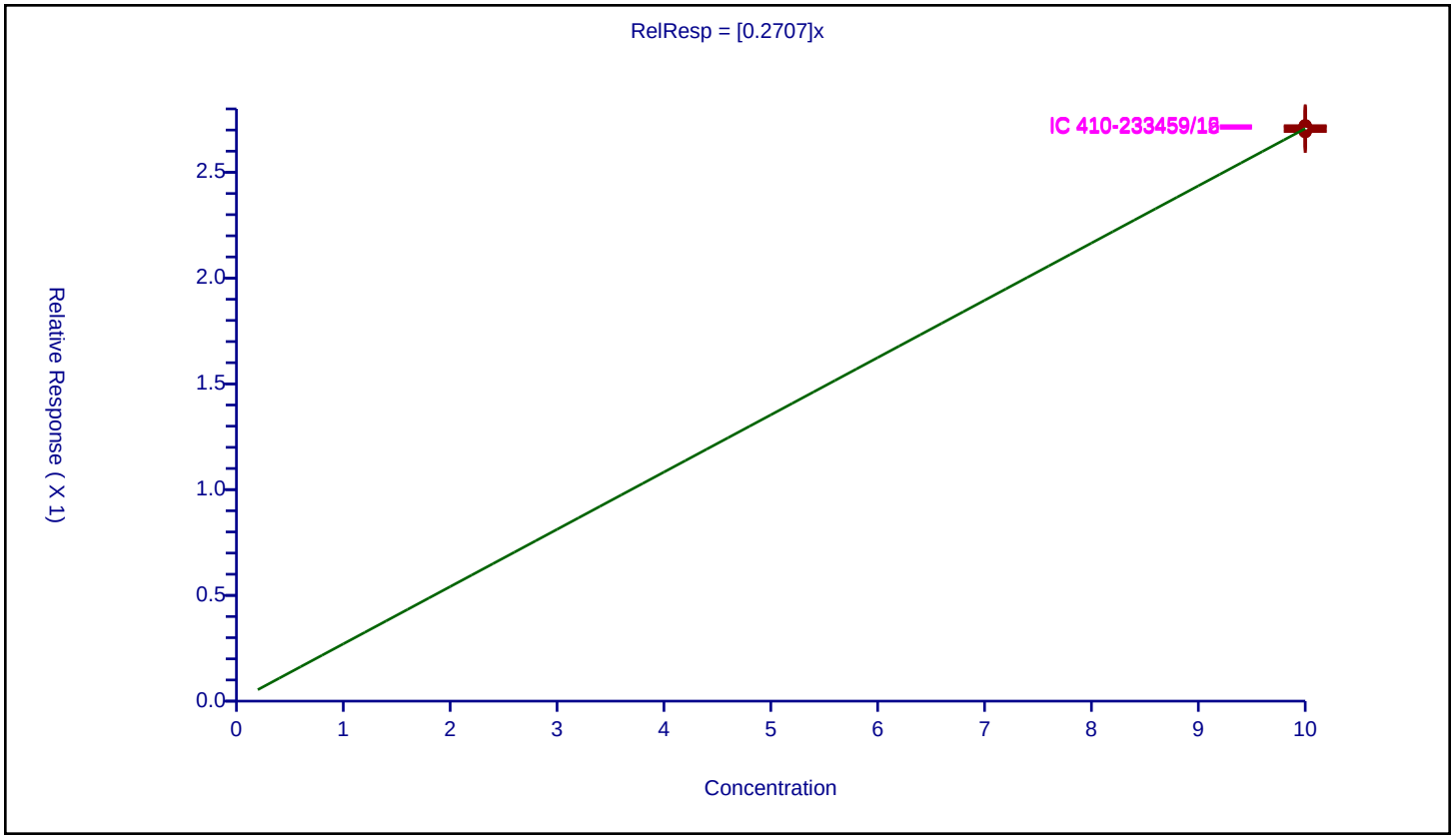
Curve Coefficients

Intercept:	0
Slope:	0.2707

Error Coefficients

Standard Error:	587000
Relative Standard Error:	0.4
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/12	10.0	2.713464	10.0	1979820.0	0.271346	Y
2	ICIS 410-233459/13	10.0	2.701624	10.0	2018353.0	0.270162	Y
3	IC 410-233459/14	10.0	2.693344	10.0	2008310.0	0.269334	Y
4	IC 410-233459/15	10.0	2.718484	10.0	2005717.0	0.271848	Y
5	IC 410-233459/16	10.0	2.720603	10.0	2010448.0	0.27206	Y
6	IC 410-233459/17	10.0	2.693238	10.0	2017326.0	0.269324	Y
7	IC 410-233459/18	10.0	2.708108	10.0	2021821.0	0.270811	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

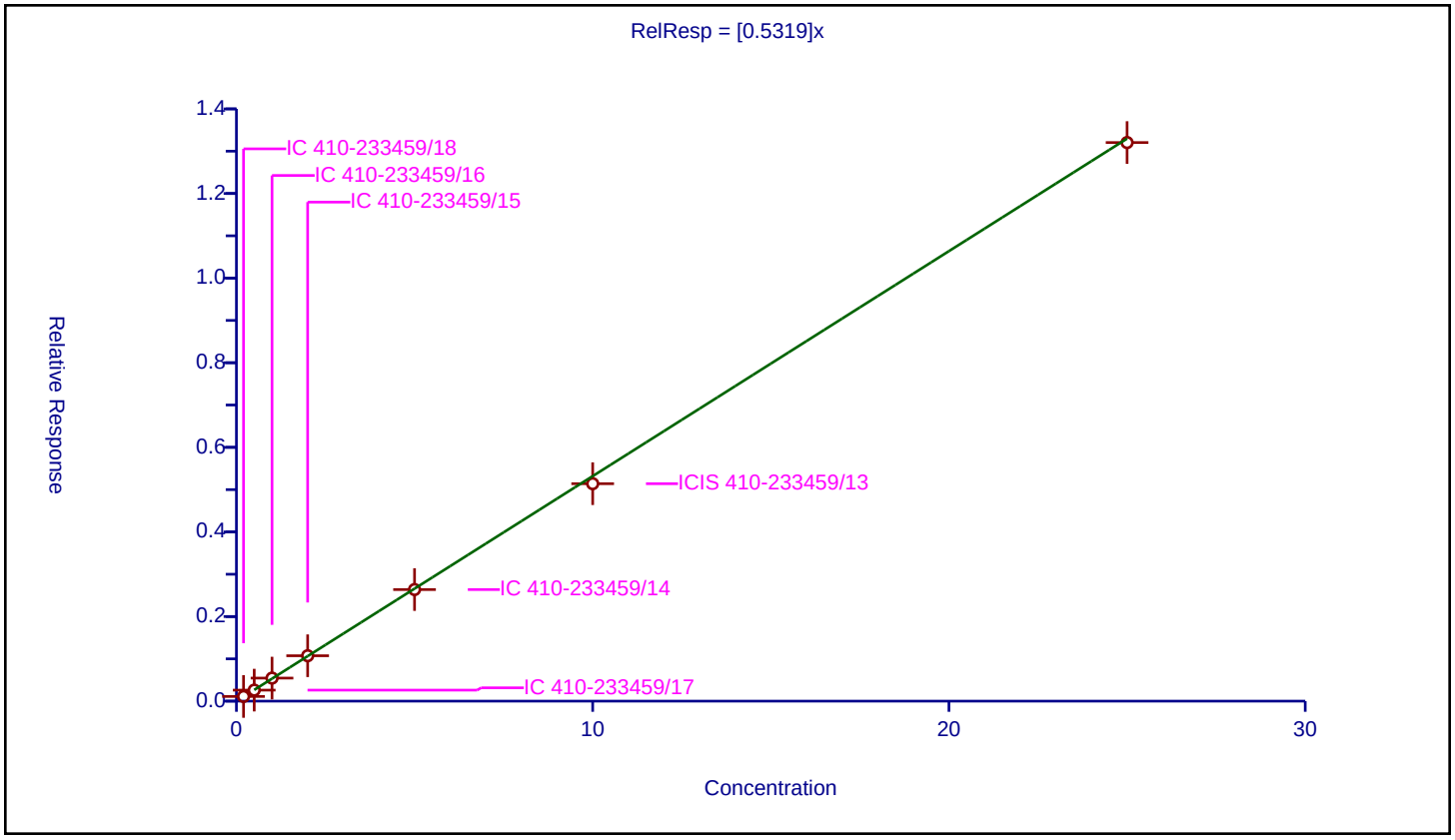
Curve Coefficients

Intercept:	0
Slope:	0.5319

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.110217	10.0	2021821.0	0.551087	Y
2	IC 410-233459/17	0.5	0.260469	10.0	2017326.0	0.520937	Y
3	IC 410-233459/16	1.0	0.544824	10.0	2010448.0	0.544824	Y
4	IC 410-233459/15	2.0	1.073167	10.0	2005717.0	0.536584	Y
5	IC 410-233459/14	5.0	2.637954	10.0	2008310.0	0.527591	Y
6	ICIS 410-233459/13	10.0	5.140077	10.0	2018353.0	0.514008	Y
7	IC 410-233459/12	25.0	13.204019	10.0	1979820.0	0.528161	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

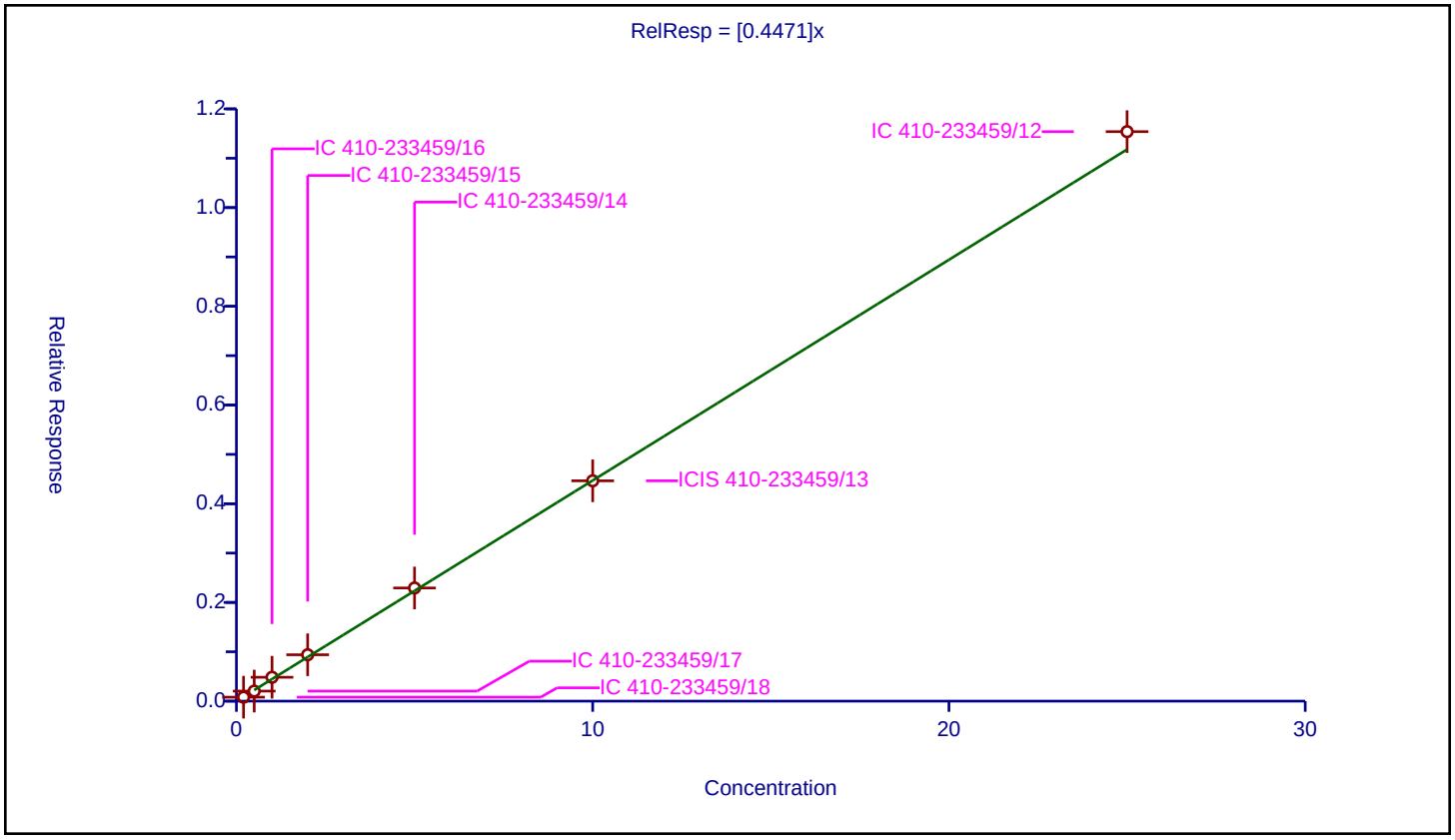
Curve Coefficients

Intercept:	0
Slope:	0.4471

Error Coefficients

Standard Error:	1020000
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.080403	10.0	2021821.0	0.402014	Y
2	IC 410-233459/17	0.5	0.203755	10.0	2017326.0	0.40751	Y
3	IC 410-233459/16	1.0	0.483832	10.0	2010448.0	0.483832	Y
4	IC 410-233459/15	2.0	0.940053	10.0	2005717.0	0.470026	Y
5	IC 410-233459/14	5.0	2.292923	10.0	2008310.0	0.458585	Y
6	ICIS 410-233459/13	10.0	4.464482	10.0	2018353.0	0.446448	Y
7	IC 410-233459/12	25.0	11.538973	10.0	1979820.0	0.461559	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

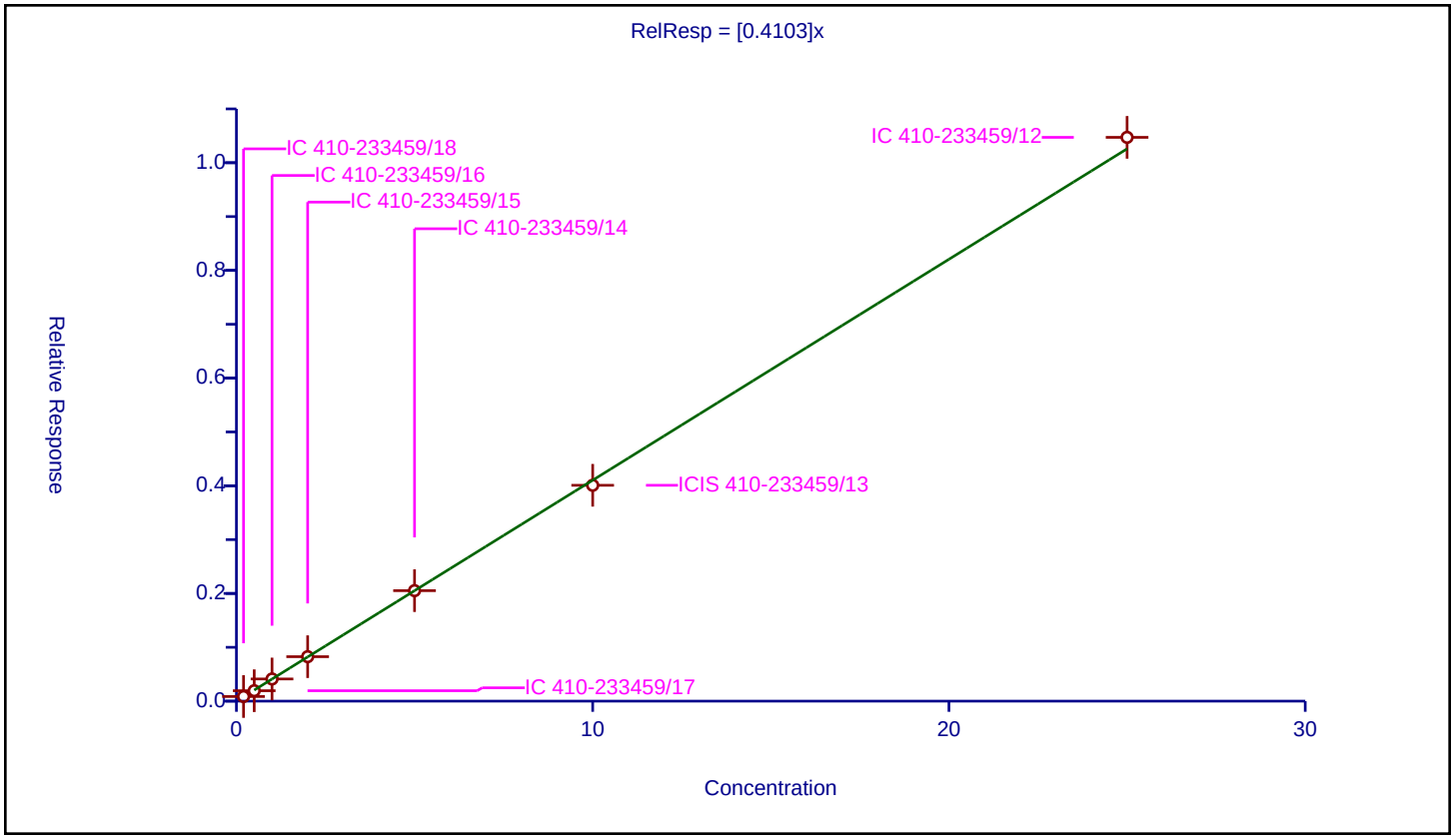
Curve Coefficients

Intercept:	0
Slope:	0.4103

Error Coefficients

Standard Error:	927000
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 410-233459/18	0.2	0.085893	10.0	2021821.0	0.429464	Y
2	IC 410-233459/17	0.5	0.193856	10.0	2017326.0	0.387711	Y
3	IC 410-233459/16	1.0	0.412003	10.0	2010448.0	0.412003	Y
4	IC 410-233459/15	2.0	0.826004	10.0	2005717.0	0.413002	Y
5	IC 410-233459/14	5.0	2.052074	10.0	2008310.0	0.410415	Y
6	ICIS 410-233459/13	10.0	4.009279	10.0	2018353.0	0.400928	Y
7	IC 410-233459/12	25.0	10.471073	10.0	1979820.0	0.418843	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

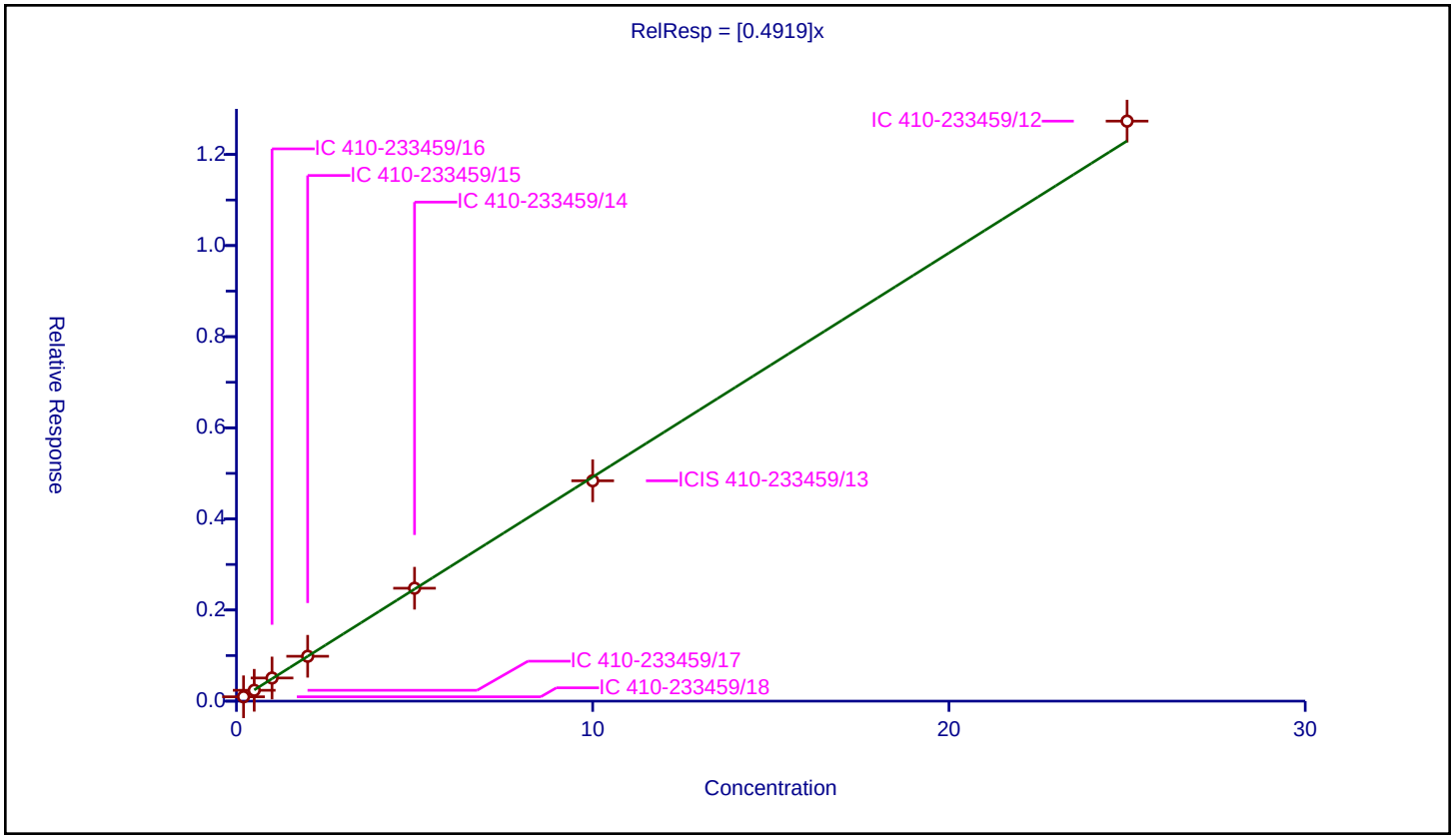
Curve Coefficients

Intercept:	0
Slope:	0.4919

Error Coefficients

Standard Error:	1130000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.095622	10.0	2021821.0	0.478109	Y
2	IC 410-233459/17	0.5	0.237978	10.0	2017326.0	0.475957	Y
3	IC 410-233459/16	1.0	0.50826	10.0	2010448.0	0.50826	Y
4	IC 410-233459/15	2.0	0.984561	10.0	2005717.0	0.49228	Y
5	IC 410-233459/14	5.0	2.478636	10.0	2008310.0	0.495727	Y
6	ICIS 410-233459/13	10.0	4.836651	10.0	2018353.0	0.483665	Y
7	IC 410-233459/12	25.0	12.731819	10.0	1979820.0	0.509273	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

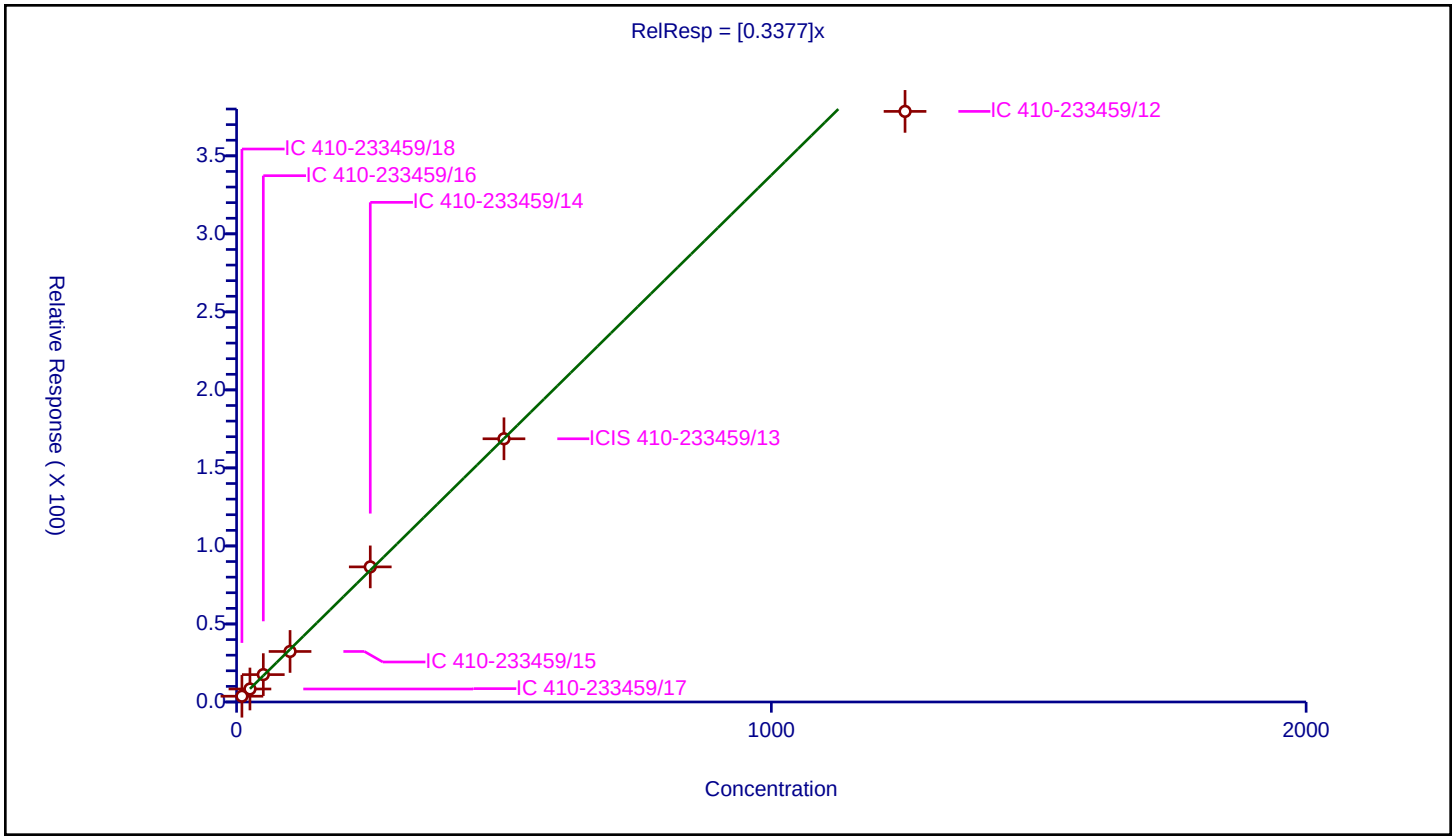
Curve Coefficients

Intercept:	0
Slope:	0.3377

Error Coefficients

Standard Error:	520000
Relative Standard Error:	6.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	10.0	3.6914	50.0	155632.0	0.36914	Y
2	IC 410-233459/17	25.0	8.332218	50.0	134454.0	0.333289	Y
3	IC 410-233459/16	50.0	17.543854	50.0	144059.0	0.350877	Y
4	IC 410-233459/15	100.0	32.382368	50.0	140927.0	0.323824	Y
5	IC 410-233459/14	250.0	86.585724	50.0	149941.0	0.346343	Y
6	ICIS 410-233459/13	500.0	168.674891	50.0	147286.0	0.33735	Y
7	IC 410-233459/12	1250.0	378.485177	50.0	150473.0	0.302788	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

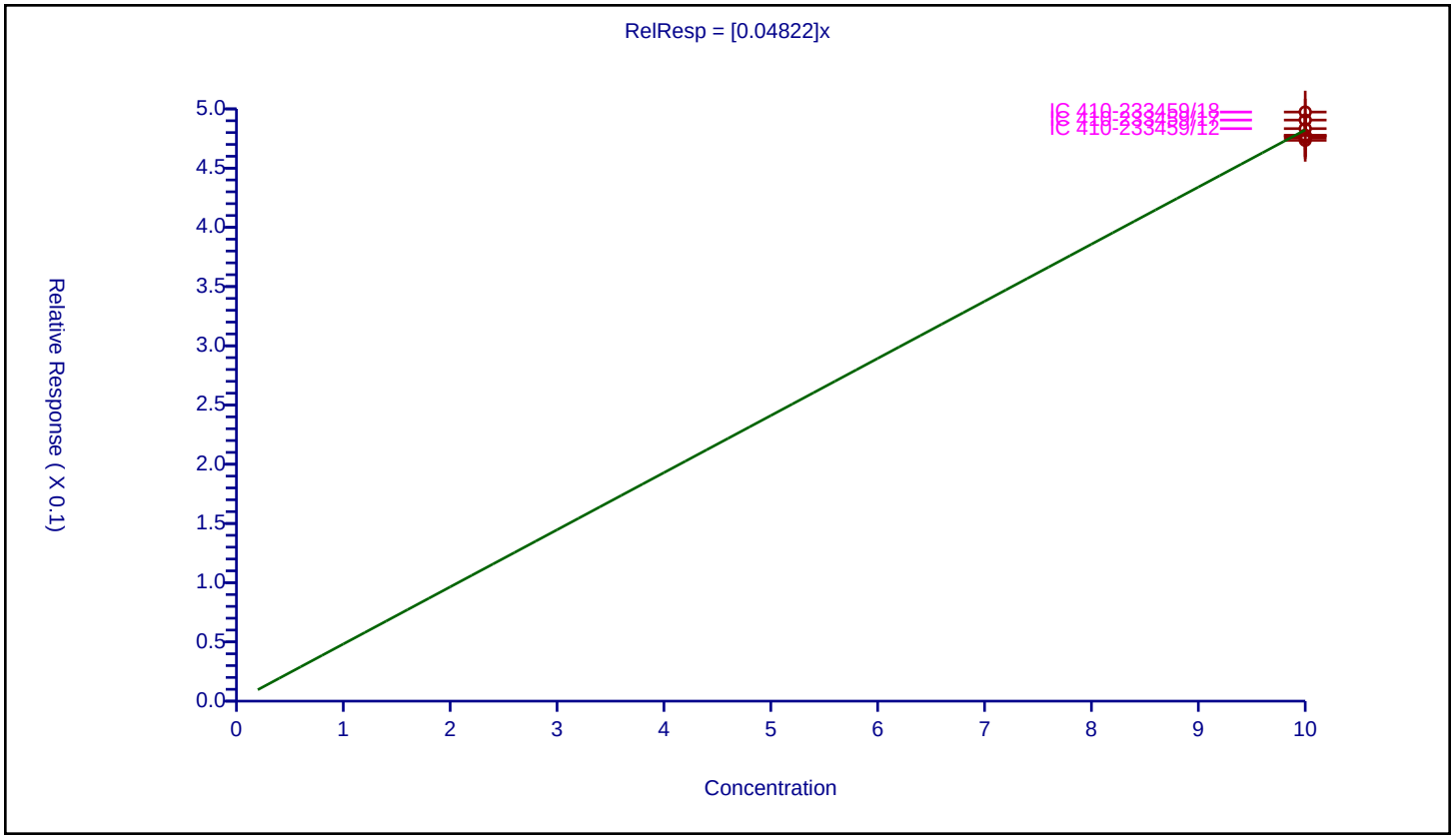
Curve Coefficients

Intercept:	0
Slope:	0.04822

Error Coefficients

Standard Error:	105000
Relative Standard Error:	1.8
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/12	10.0	0.483347	10.0	1979820.0	0.048335	Y
2	ICIS 410-233459/13	10.0	0.475764	10.0	2018353.0	0.047576	Y
3	IC 410-233459/14	10.0	0.473473	10.0	2008310.0	0.047347	Y
4	IC 410-233459/15	10.0	0.477251	10.0	2005717.0	0.047725	Y
5	IC 410-233459/16	10.0	0.477734	10.0	2010448.0	0.047773	Y
6	IC 410-233459/17	10.0	0.490575	10.0	2017326.0	0.049058	Y
7	IC 410-233459/18	10.0	0.497354	10.0	2021821.0	0.049735	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

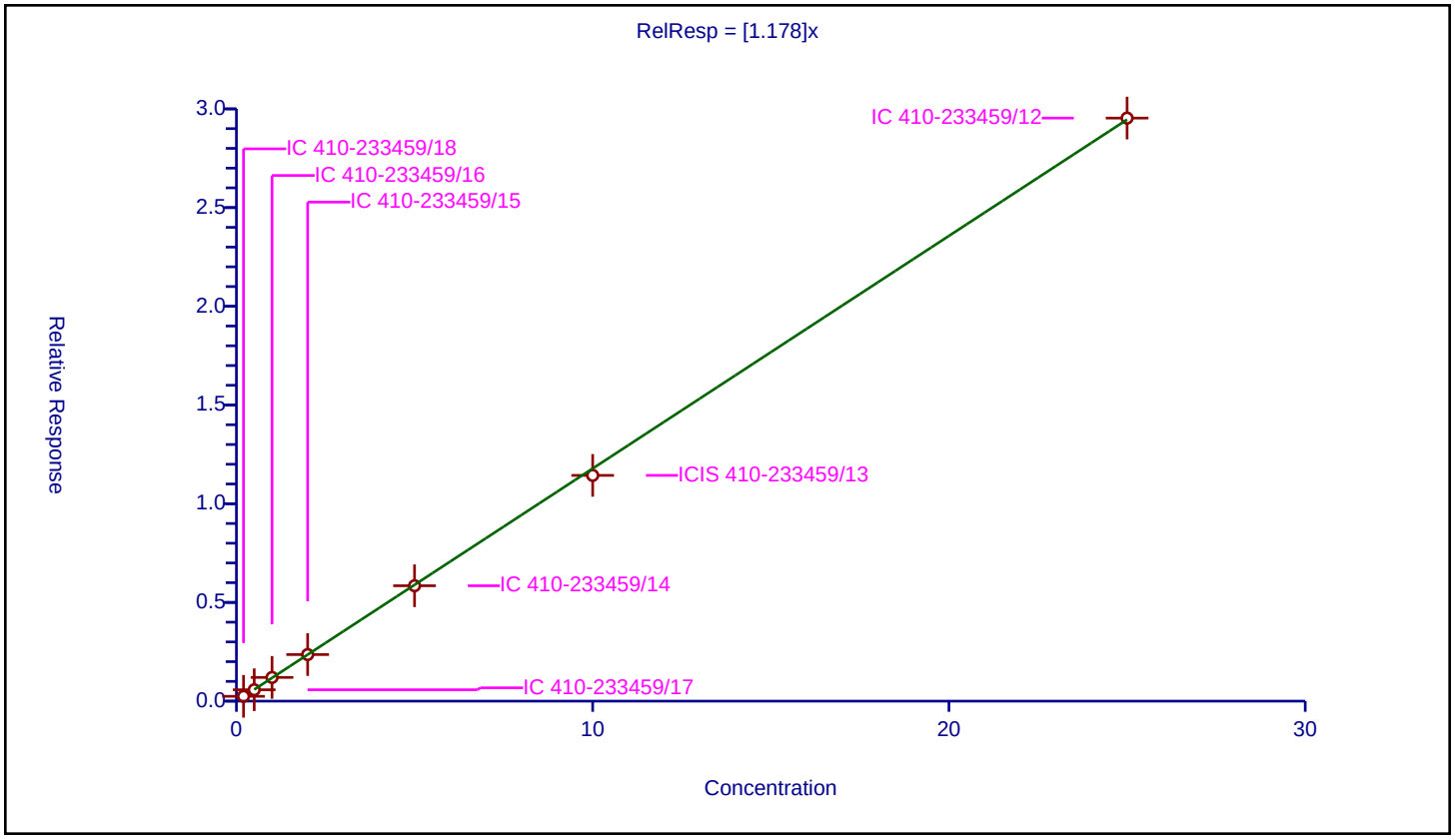
Curve Coefficients

Intercept:	0
Slope:	1.178

Error Coefficients

Standard Error:	2620000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.244206	10.0	2021821.0	1.221028	Y
2	IC 410-233459/17	0.5	0.576729	10.0	2017326.0	1.153458	Y
3	IC 410-233459/16	1.0	1.200722	10.0	2010448.0	1.200722	Y
4	IC 410-233459/15	2.0	2.358683	10.0	2005717.0	1.179341	Y
5	IC 410-233459/14	5.0	5.845542	10.0	2008310.0	1.169108	Y
6	ICIS 410-233459/13	10.0	11.435621	10.0	2018353.0	1.143562	Y
7	IC 410-233459/12	25.0	29.534311	10.0	1979820.0	1.181372	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

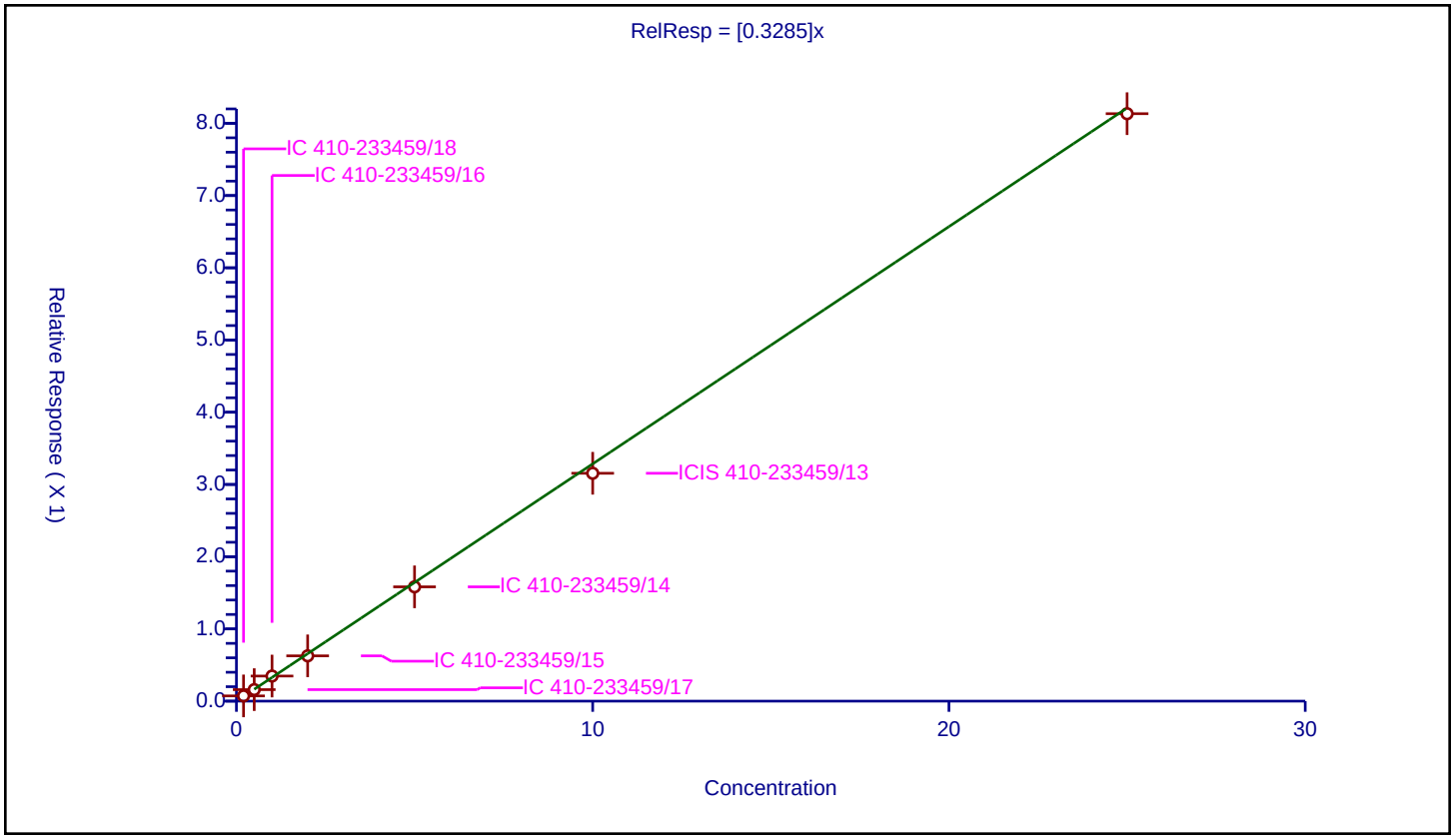
Curve Coefficients

Intercept:	0
Slope:	0.3285

Error Coefficients

Standard Error:	721000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.07237	10.0	2021821.0	0.361852	Y
2	IC 410-233459/17	0.5	0.159533	10.0	2017326.0	0.319066	Y
3	IC 410-233459/16	1.0	0.347639	10.0	2010448.0	0.347639	Y
4	IC 410-233459/15	2.0	0.627142	10.0	2005717.0	0.313571	Y
5	IC 410-233459/14	5.0	1.582724	10.0	2008310.0	0.316545	Y
6	ICIS 410-233459/13	10.0	3.155097	10.0	2018353.0	0.31551	Y
7	IC 410-233459/12	25.0	8.133719	10.0	1979820.0	0.325349	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

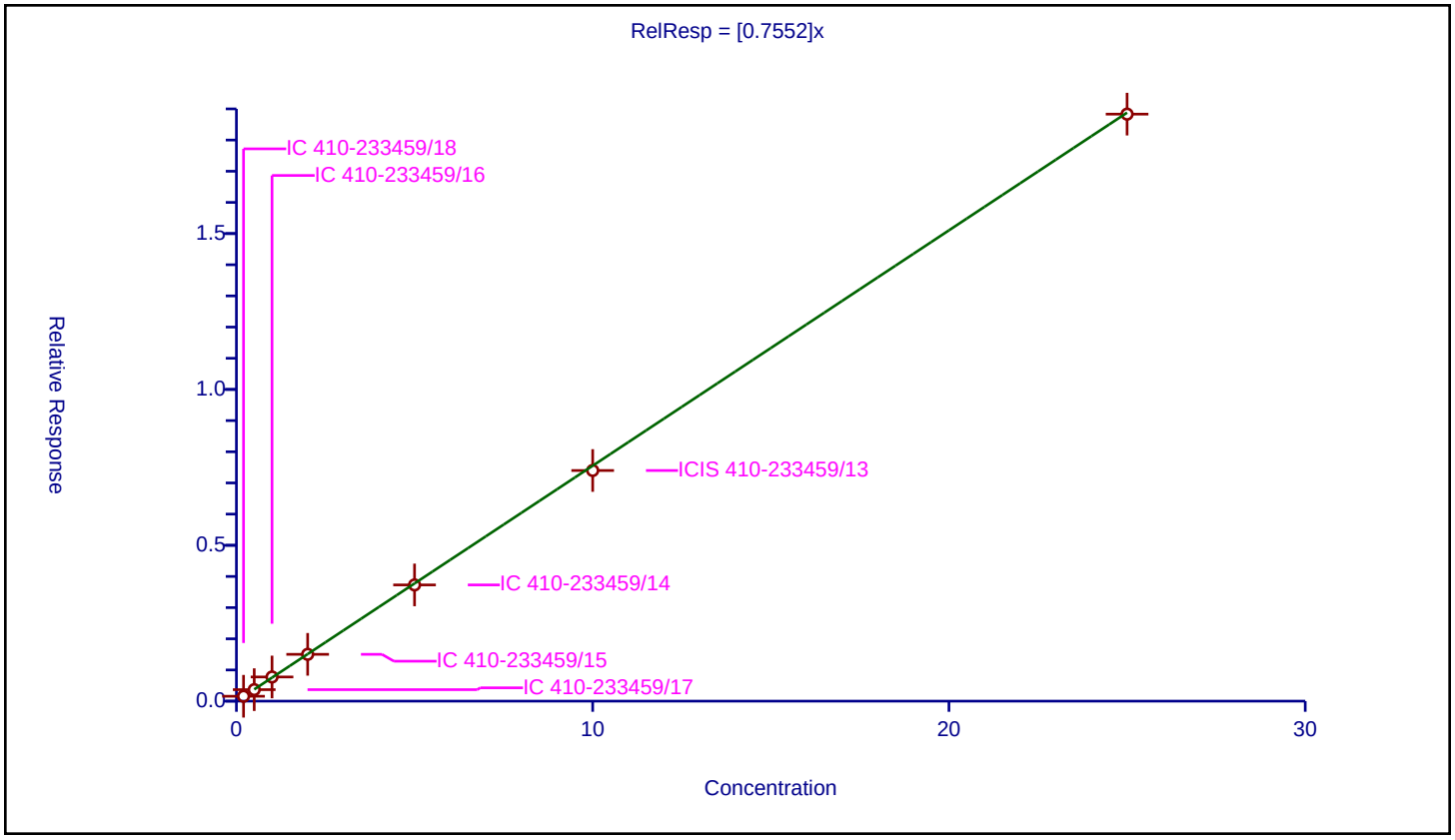
Curve Coefficients

Intercept:	0
Slope:	0.7552

Error Coefficients

Standard Error:	1670000
Relative Standard Error:	2.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.156972	10.0	2021821.0	0.784862	Y
2	IC 410-233459/17	0.5	0.368408	10.0	2017326.0	0.736817	Y
3	IC 410-233459/16	1.0	0.775091	10.0	2010448.0	0.775091	Y
4	IC 410-233459/15	2.0	1.501468	10.0	2005717.0	0.750734	Y
5	IC 410-233459/14	5.0	3.728179	10.0	2008310.0	0.745636	Y
6	ICIS 410-233459/13	10.0	7.399315	10.0	2018353.0	0.739932	Y
7	IC 410-233459/12	25.0	18.831965	10.0	1979820.0	0.753279	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

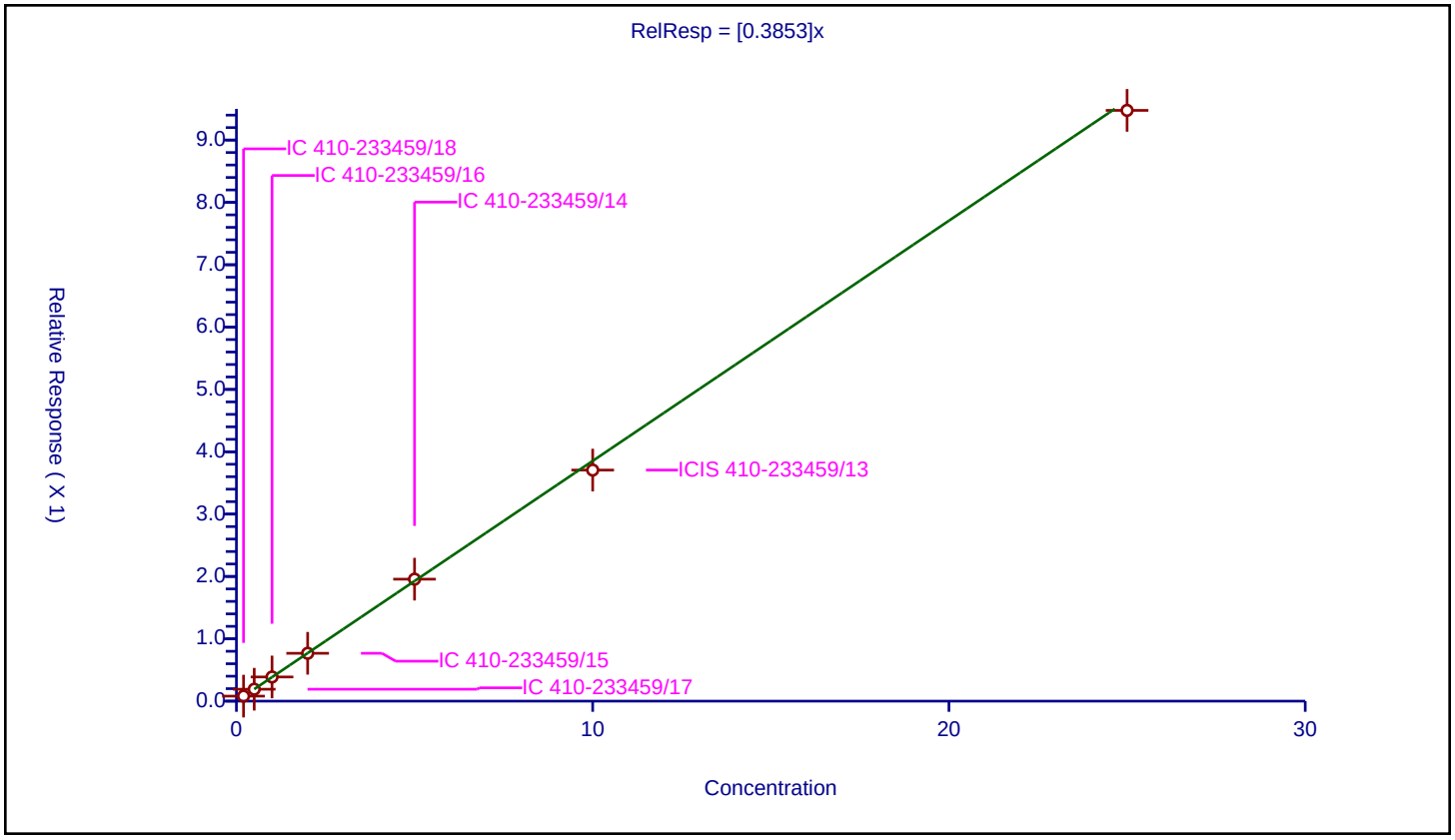
Curve Coefficients

Intercept:	0
Slope:	0.3853

Error Coefficients

Standard Error:	843000
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 410-233459/18	0.2	0.080462	10.0	2021821.0	0.402311	Y
2	IC 410-233459/17	0.5	0.191194	10.0	2017326.0	0.382387	Y
3	IC 410-233459/16	1.0	0.387824	10.0	2010448.0	0.387824	Y
4	IC 410-233459/15	2.0	0.767496	10.0	2005717.0	0.383748	Y
5	IC 410-233459/14	5.0	1.95662	10.0	2008310.0	0.391324	Y
6	ICIS 410-233459/13	10.0	3.706324	10.0	2018353.0	0.370632	Y
7	IC 410-233459/12	25.0	9.47617	10.0	1979820.0	0.379047	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

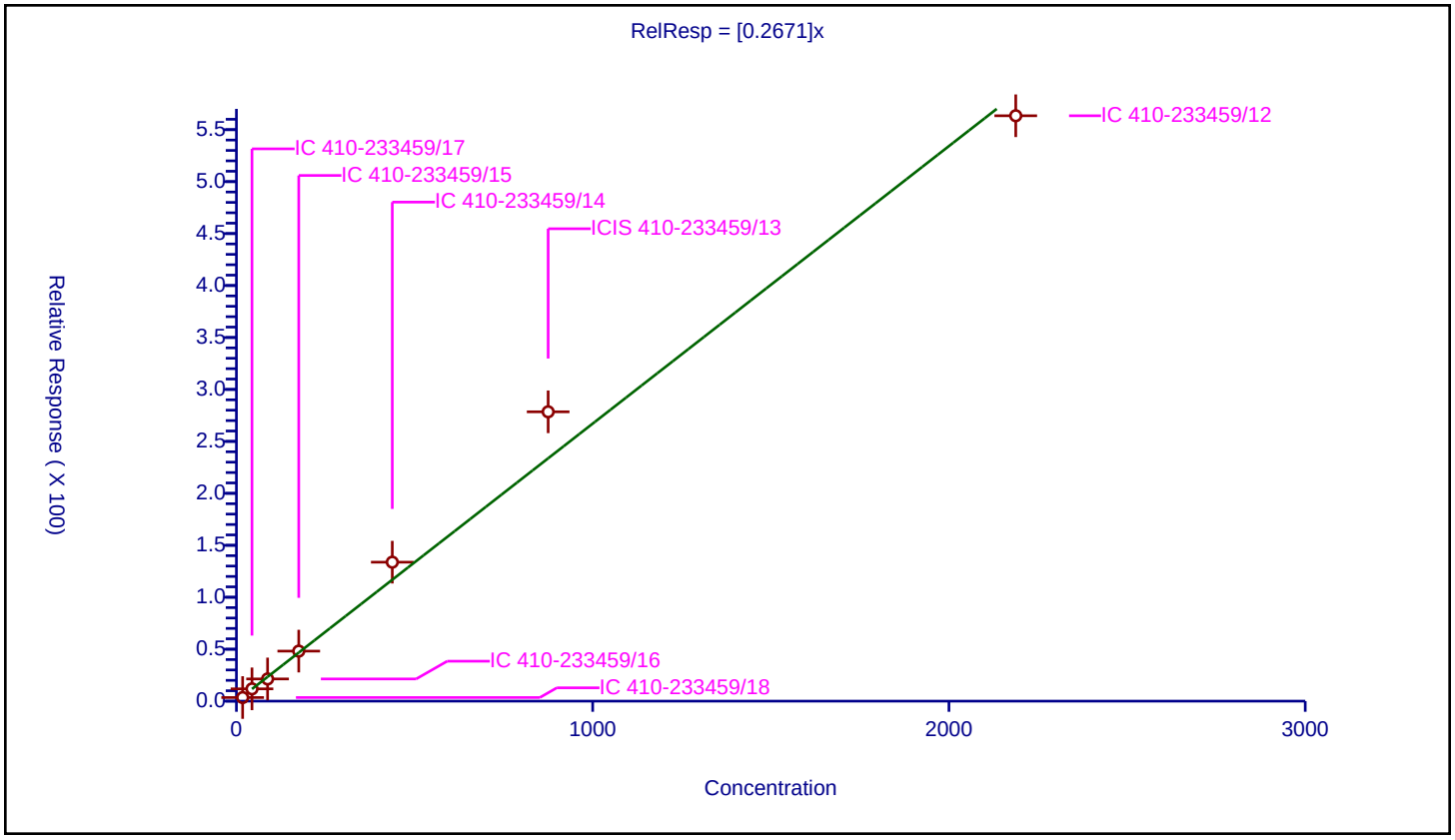
Curve Coefficients

Intercept:	0
Slope:	0.2671

Error Coefficients

Standard Error:	788000
Relative Standard Error:	14.9
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	17.5	3.470045	50.0	155632.0	0.198288	Y
2	IC 410-233459/17	43.75	11.837506	50.0	134454.0	0.270572	Y
3	IC 410-233459/16	87.5	21.35271	50.0	144059.0	0.244031	Y
4	IC 410-233459/15	175.0	48.162524	50.0	140927.0	0.275214	Y
5	IC 410-233459/14	437.5	133.750942	50.0	149941.0	0.305716	Y
6	ICIS 410-233459/13	875.0	278.467743	50.0	147286.0	0.318249	Y
7	IC 410-233459/12	2187.5	563.390442	50.0	150473.0	0.25755	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

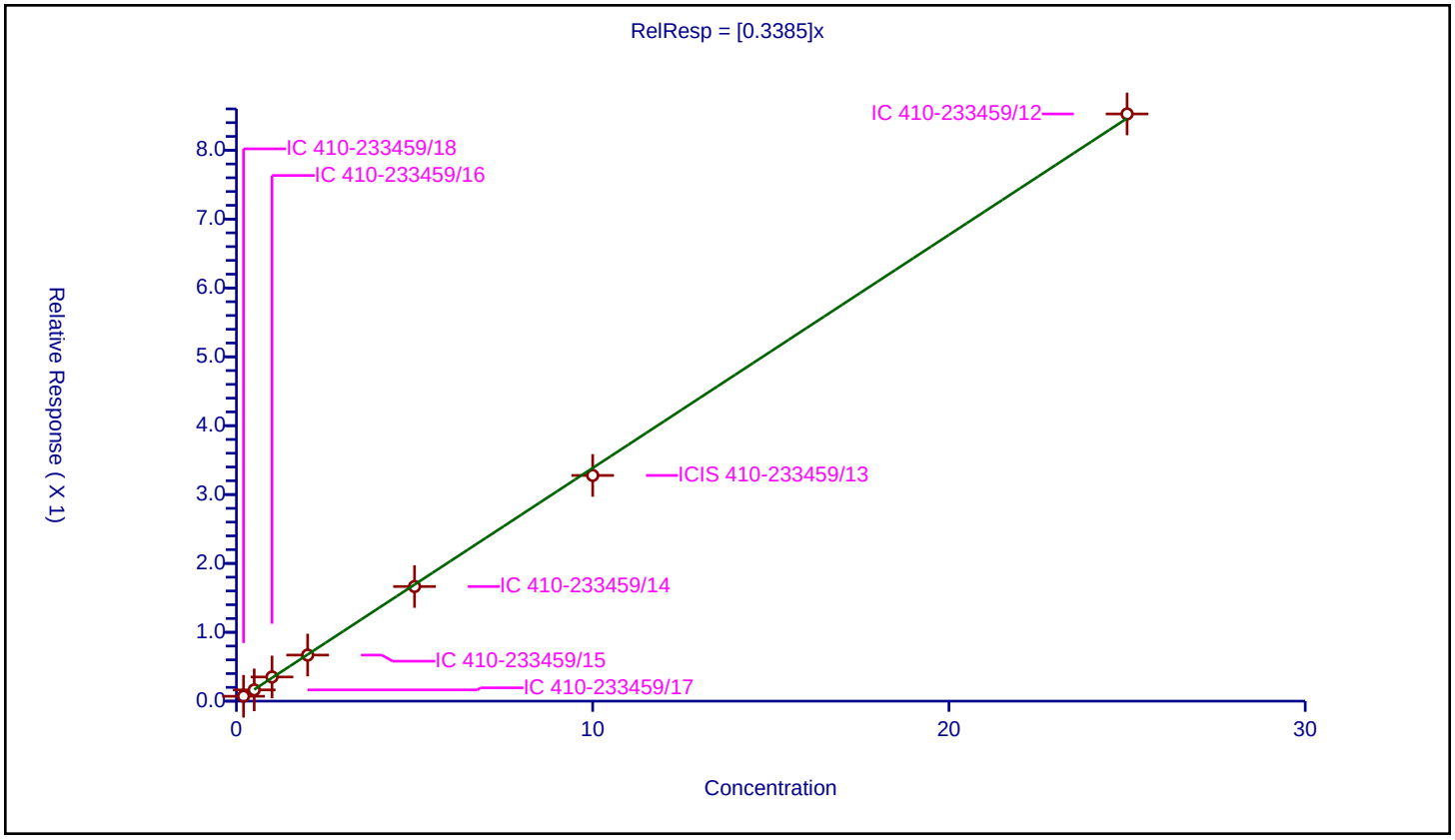
Curve Coefficients

Intercept:	0
Slope:	0.3385

Error Coefficients

Standard Error:	755000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.071149	10.0	2021821.0	0.355744	Y
2	IC 410-233459/17	0.5	0.163454	10.0	2017326.0	0.326908	Y
3	IC 410-233459/16	1.0	0.351021	10.0	2010448.0	0.351021	Y
4	IC 410-233459/15	2.0	0.668708	10.0	2005717.0	0.334354	Y
5	IC 410-233459/14	5.0	1.664409	10.0	2008310.0	0.332882	Y
6	ICIS 410-233459/13	10.0	3.277539	10.0	2018353.0	0.327754	Y
7	IC 410-233459/12	25.0	8.526608	10.0	1979820.0	0.341064	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

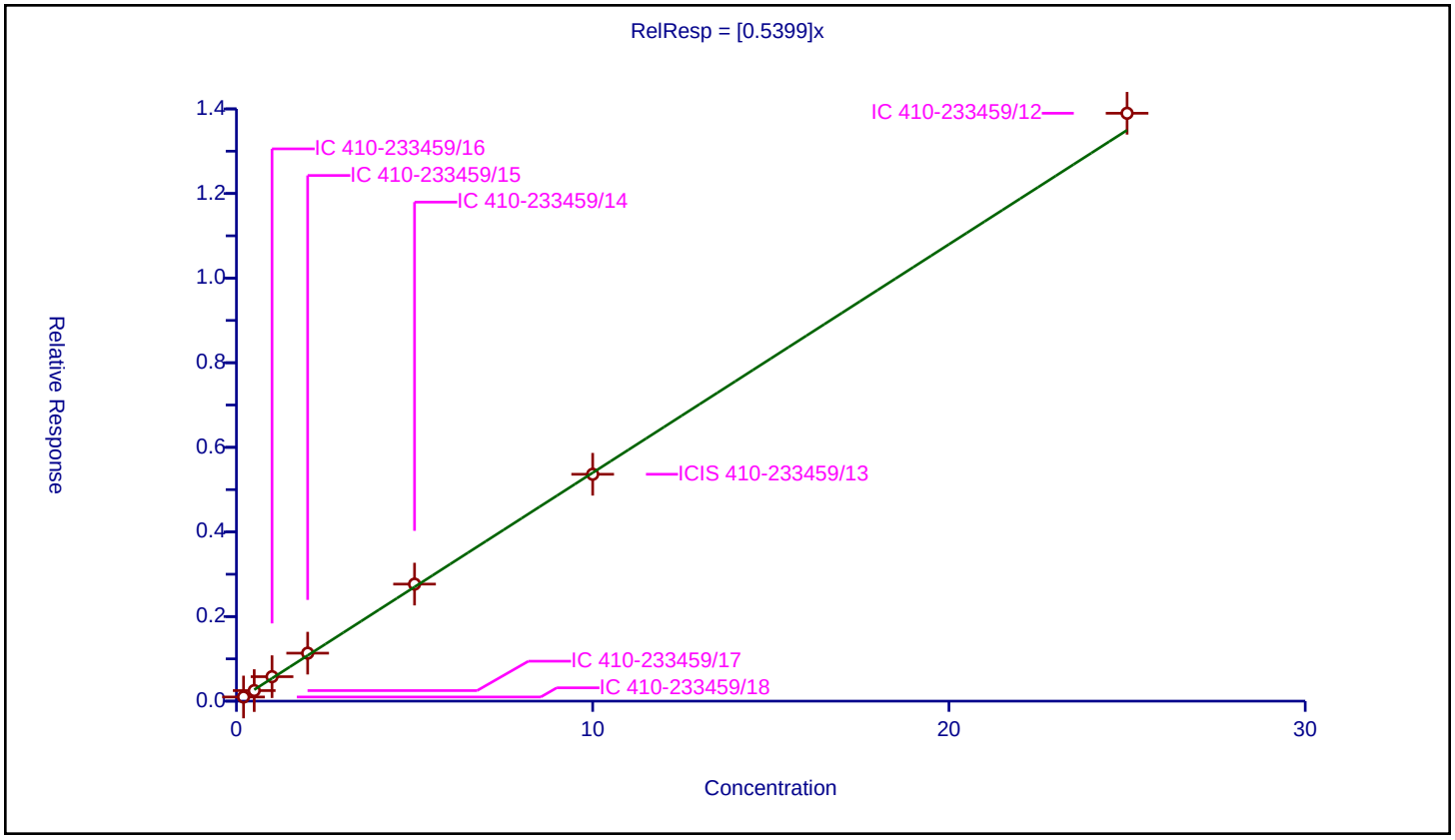
Curve Coefficients

Intercept:	0
Slope:	0.5399

Error Coefficients

Standard Error:	1230000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.097783	10.0	2021821.0	0.488916	Y
2	IC 410-233459/17	0.5	0.249821	10.0	2017326.0	0.499642	Y
3	IC 410-233459/16	1.0	0.57814	10.0	2010448.0	0.57814	Y
4	IC 410-233459/15	2.0	1.134377	10.0	2005717.0	0.567189	Y
5	IC 410-233459/14	5.0	2.76655	10.0	2008310.0	0.55331	Y
6	ICIS 410-233459/13	10.0	5.363319	10.0	2018353.0	0.536332	Y
7	IC 410-233459/12	25.0	13.89644	10.0	1979820.0	0.555858	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

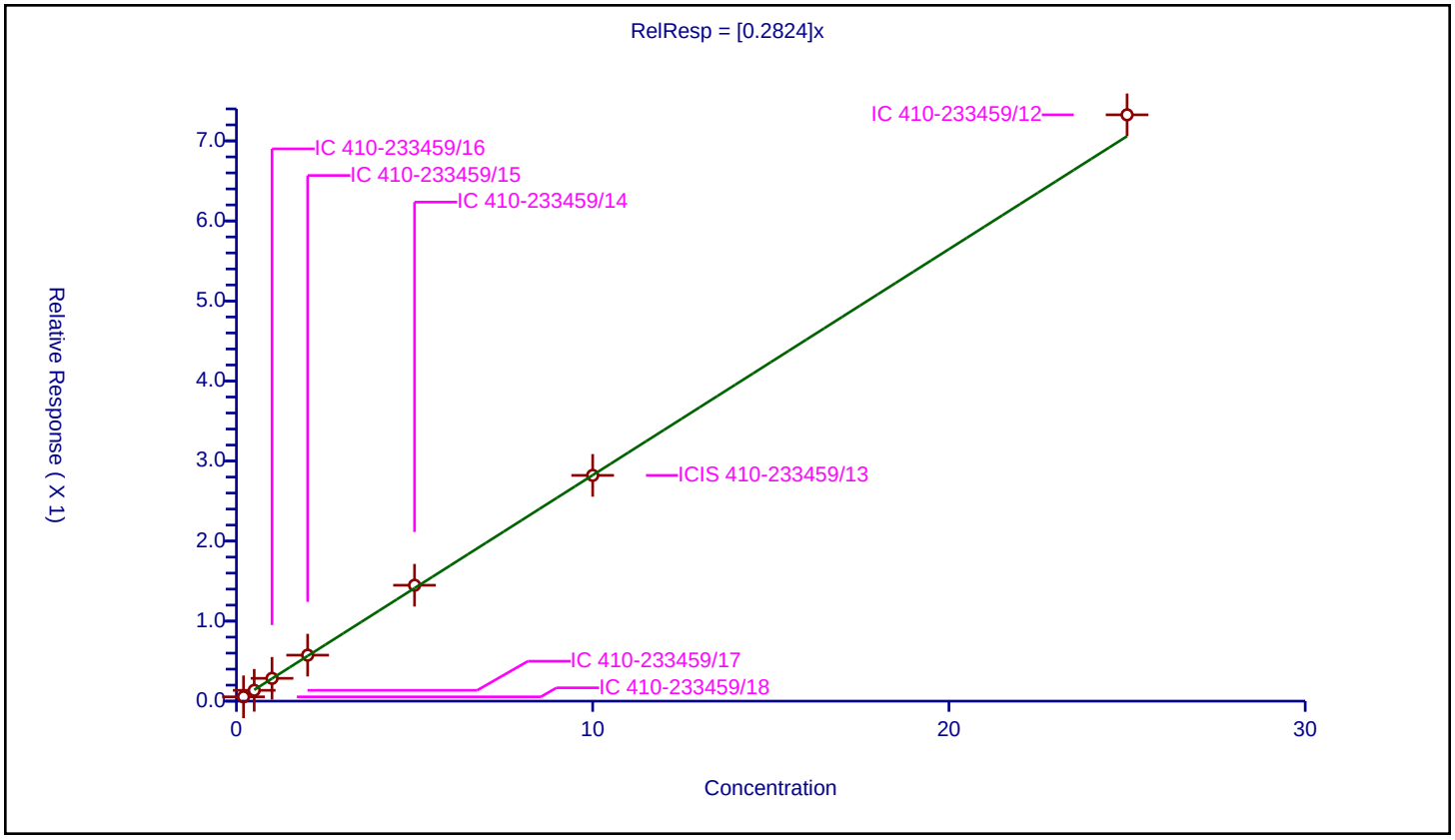
Curve Coefficients

Intercept:	0
Slope:	0.2824

Error Coefficients

Standard Error:	649000
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 410-233459/18	0.2	0.053788	10.0	2021821.0	0.268941	Y
2	IC 410-233459/17	0.5	0.135308	10.0	2017326.0	0.270616	Y
3	IC 410-233459/16	1.0	0.284996	10.0	2010448.0	0.284996	Y
4	IC 410-233459/15	2.0	0.574498	10.0	2005717.0	0.287249	Y
5	IC 410-233459/14	5.0	1.448068	10.0	2008310.0	0.289614	Y
6	ICIS 410-233459/13	10.0	2.82076	10.0	2018353.0	0.282076	Y
7	IC 410-233459/12	25.0	7.325828	10.0	1979820.0	0.293033	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

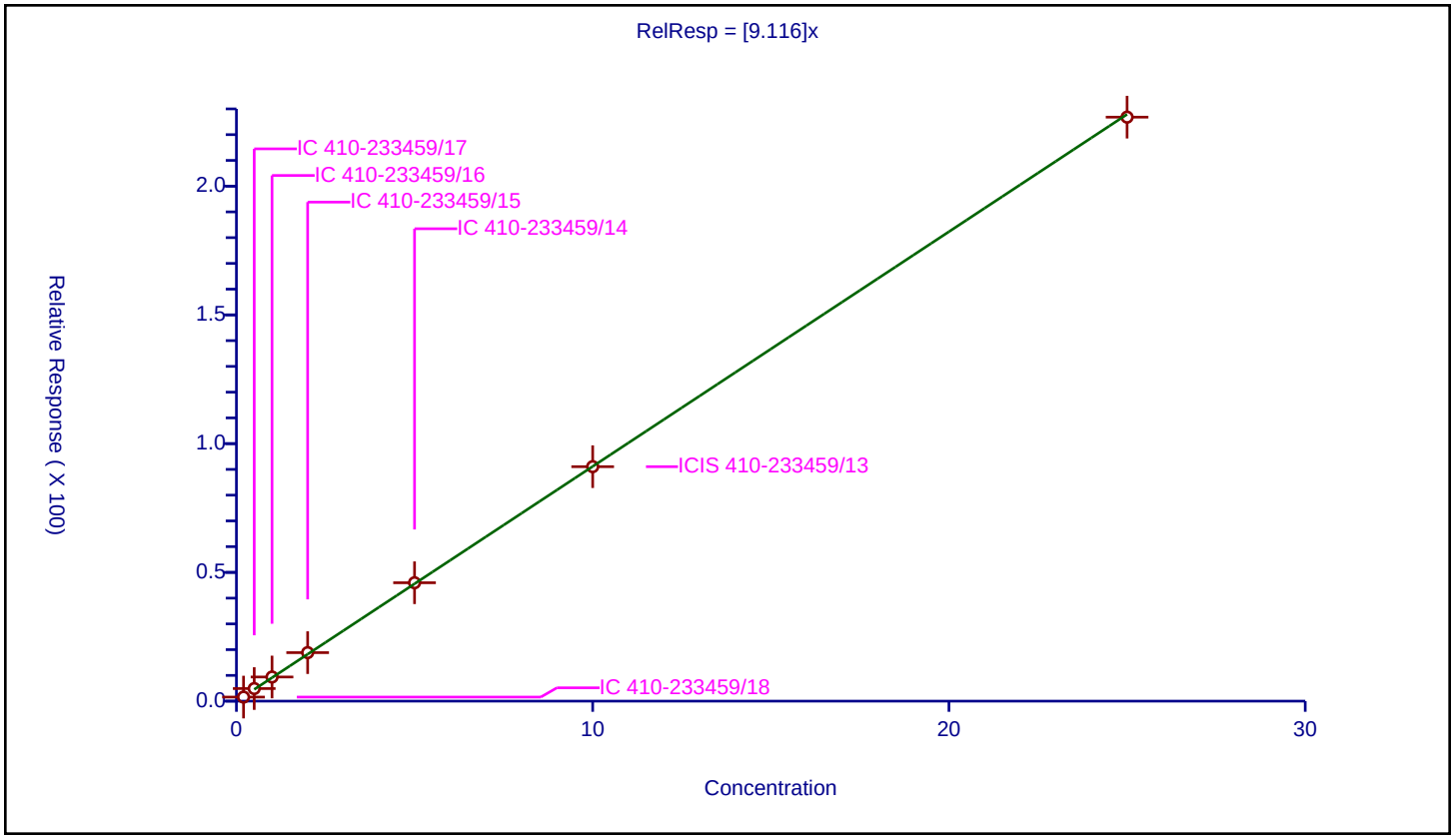
Curve Coefficients

Intercept:	0
Slope:	9.116

Error Coefficients

Standard Error:	306000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	1.574226	50.0	155632.0	7.871132	Y
2	IC 410-233459/17	0.5	4.885314	50.0	134454.0	9.770628	Y
3	IC 410-233459/16	1.0	9.372896	50.0	144059.0	9.372896	Y
4	IC 410-233459/15	2.0	18.843089	50.0	140927.0	9.421544	Y
5	IC 410-233459/14	5.0	45.976417	50.0	149941.0	9.195283	Y
6	ICIS 410-233459/13	10.0	91.053121	50.0	147286.0	9.105312	Y
7	IC 410-233459/12	25.0	226.797499	50.0	150473.0	9.0719	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

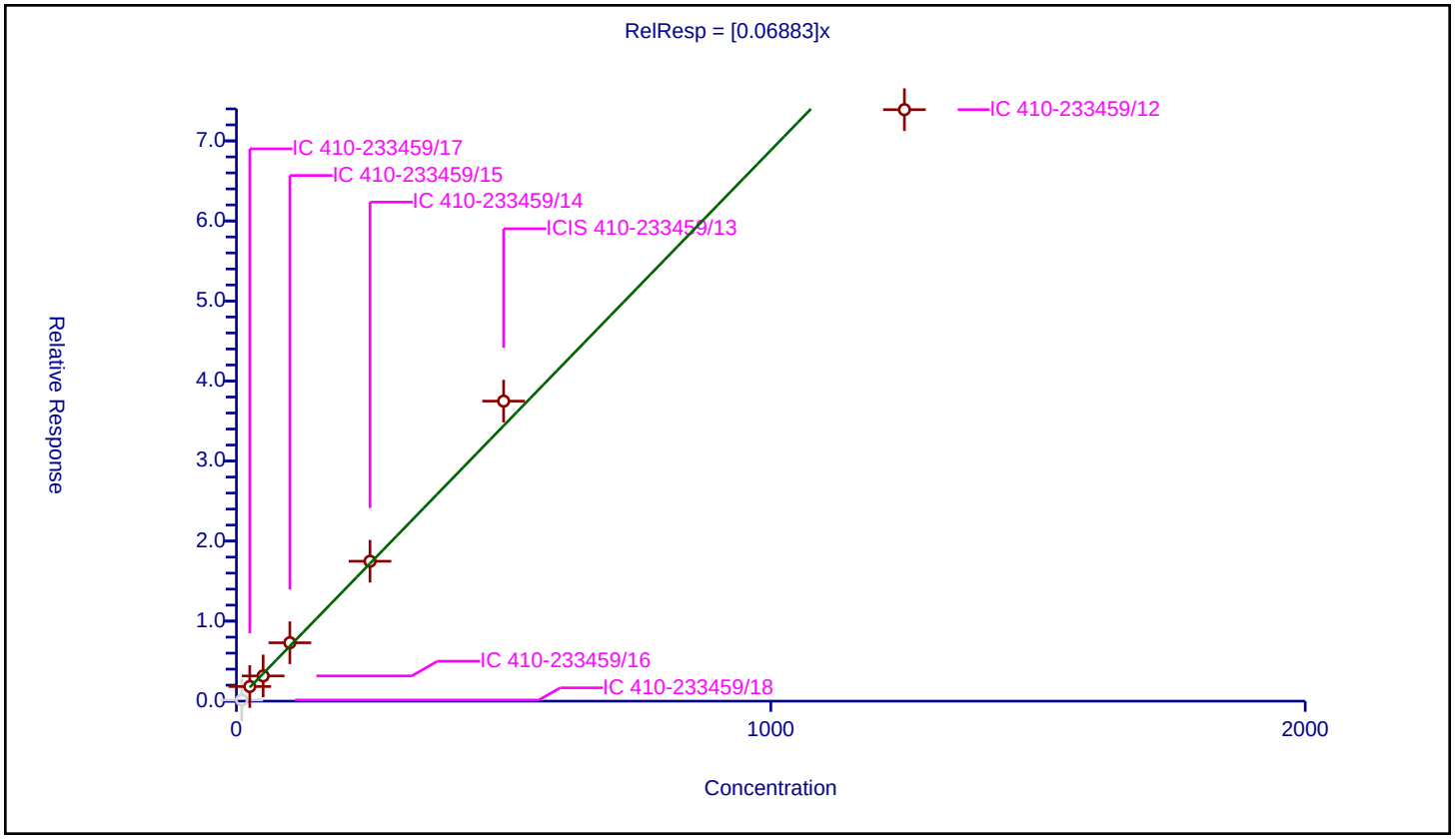
Curve Coefficients

Intercept:	0
Slope:	0.06883

Error Coefficients

Standard Error:	114000
Relative Standard Error:	9.2
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	10.0	0.143608	50.0	155632.0	0.014361	N
2	IC 410-233459/17	25.0	1.82516	50.0	134454.0	0.073006	Y
3	IC 410-233459/16	50.0	3.14871	50.0	144059.0	0.062974	Y
4	IC 410-233459/15	100.0	7.296686	50.0	140927.0	0.072967	Y
5	IC 410-233459/14	250.0	17.478542	50.0	149941.0	0.069914	Y
6	ICIS 410-233459/13	500.0	37.488288	50.0	147286.0	0.074977	Y
7	IC 410-233459/12	1250.0	73.903956	50.0	150473.0	0.059123	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

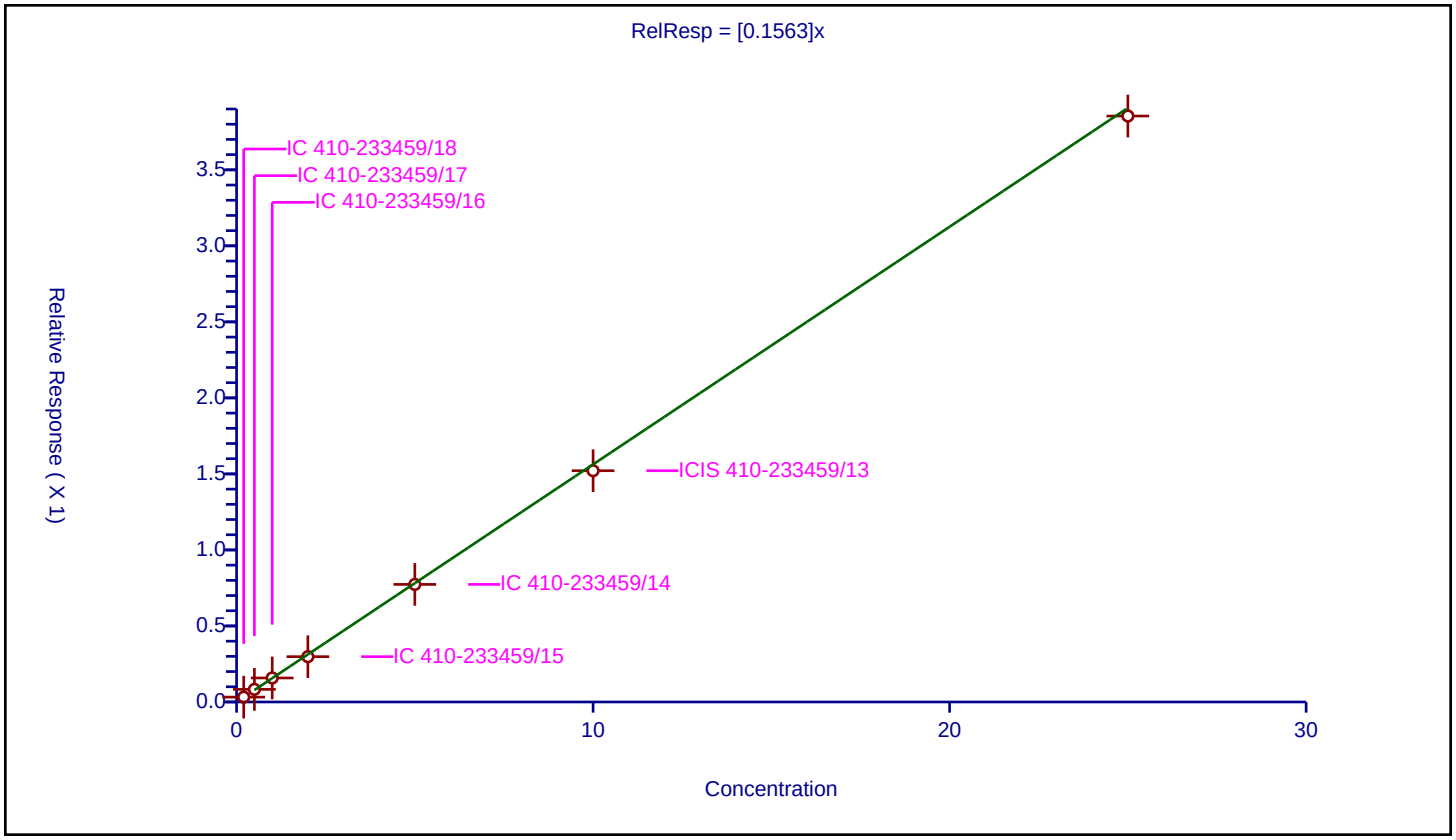
Curve Coefficients

Intercept:	0
Slope:	0.1563

Error Coefficients

Standard Error:	343000
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 410-233459/18	0.2	0.031986	10.0	2021821.0	0.15993	Y
2	IC 410-233459/17	0.5	0.083011	10.0	2017326.0	0.166022	Y
3	IC 410-233459/16	1.0	0.158034	10.0	2010448.0	0.158034	Y
4	IC 410-233459/15	2.0	0.298123	10.0	2005717.0	0.149061	Y
5	IC 410-233459/14	5.0	0.773337	10.0	2008310.0	0.154667	Y
6	ICIS 410-233459/13	10.0	1.521116	10.0	2018353.0	0.152112	Y
7	IC 410-233459/12	25.0	3.853956	10.0	1979820.0	0.154158	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

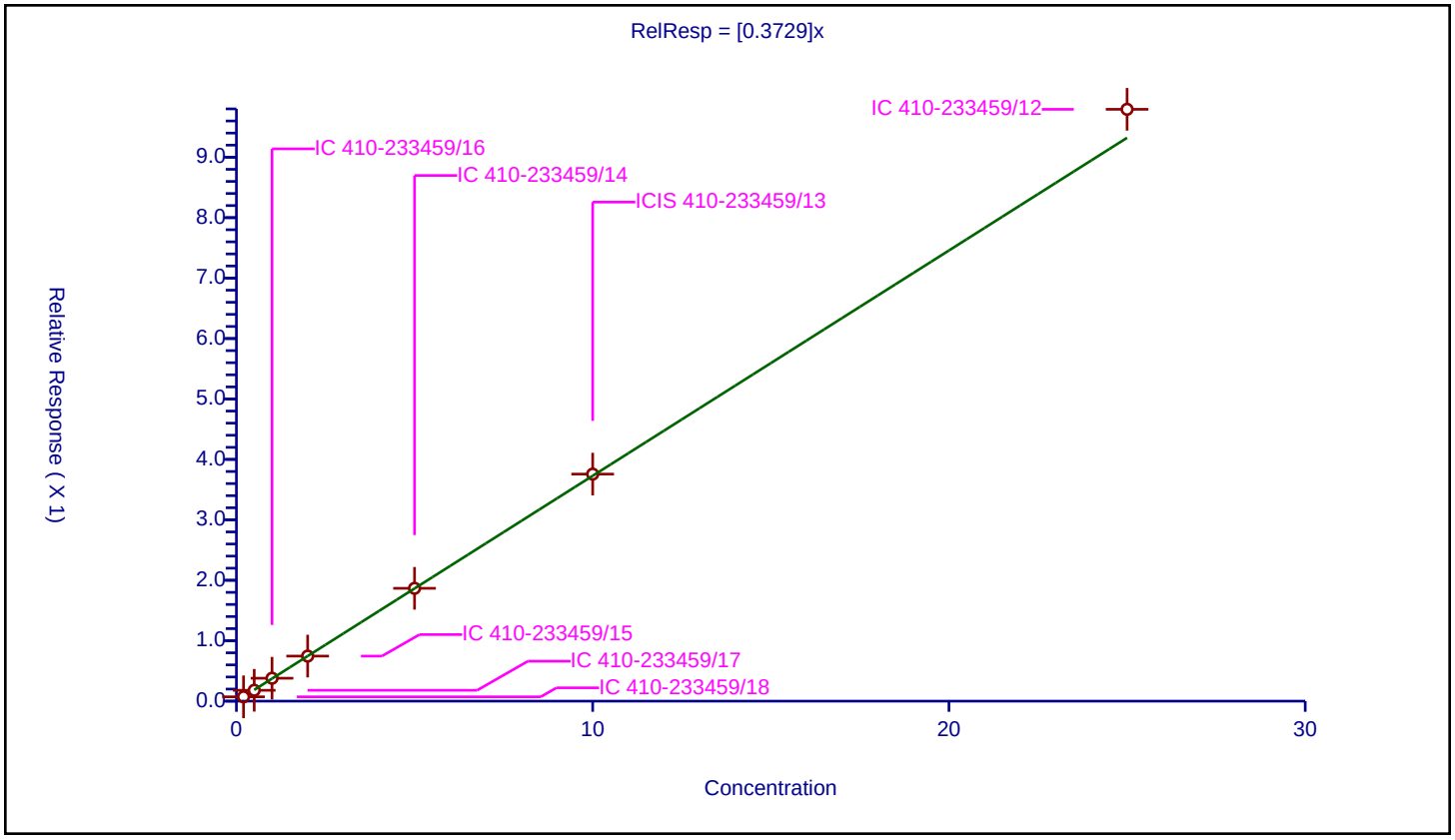
Curve Coefficients

Intercept:	0
Slope:	0.3729

Error Coefficients

Standard Error:	866000
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 410-233459/18	0.2	0.071698	10.0	2021821.0	0.358489	Y
2	IC 410-233459/17	0.5	0.179445	10.0	2017326.0	0.358891	Y
3	IC 410-233459/16	1.0	0.37908	10.0	2010448.0	0.37908	Y
4	IC 410-233459/15	2.0	0.745649	10.0	2005717.0	0.372824	Y
5	IC 410-233459/14	5.0	1.866873	10.0	2008310.0	0.373375	Y
6	ICIS 410-233459/13	10.0	3.756949	10.0	2018353.0	0.375695	Y
7	IC 410-233459/12	25.0	9.79289	10.0	1979820.0	0.391716	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

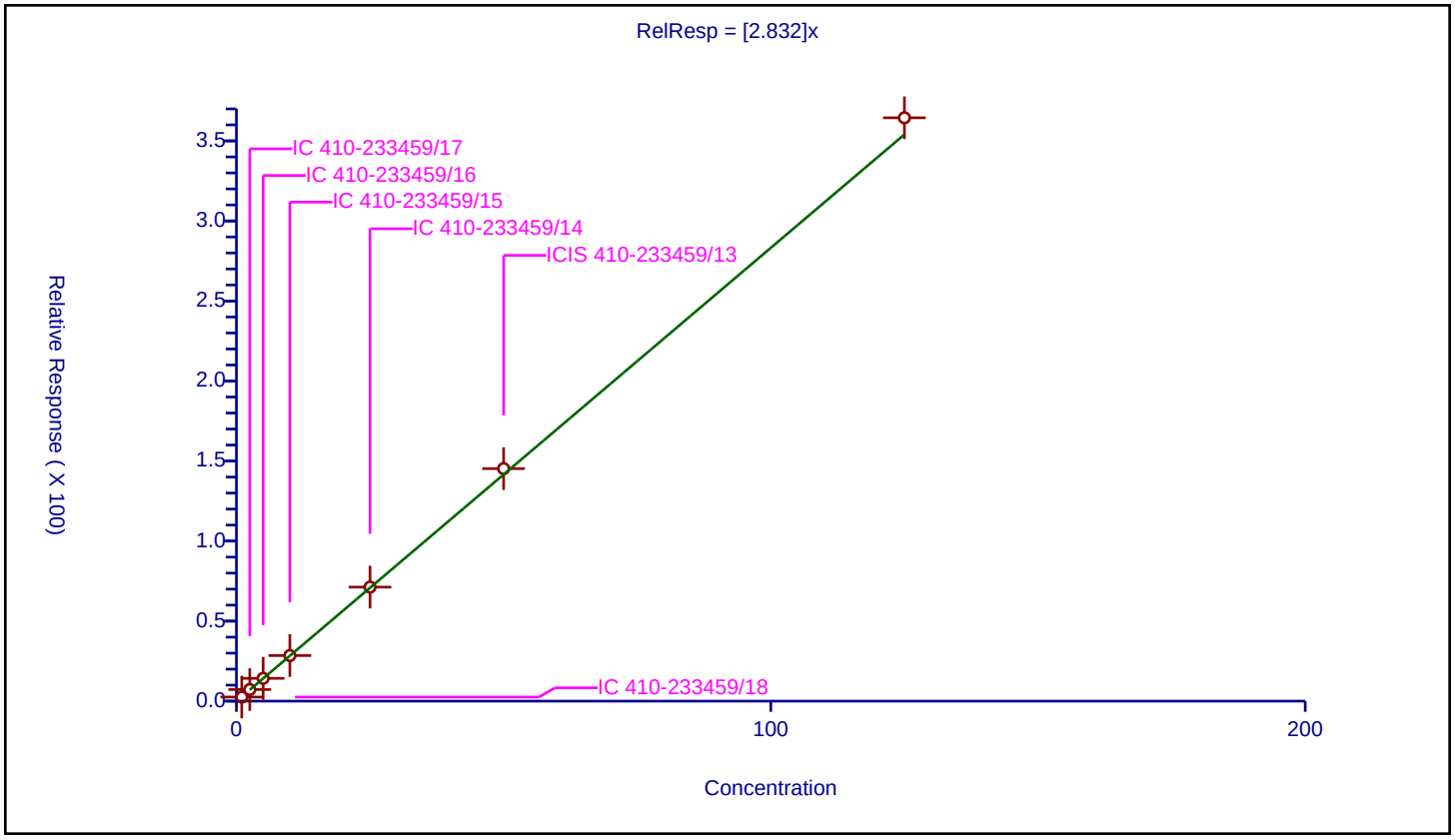
Curve Coefficients

Intercept:	0
Slope:	2.832

Error Coefficients

Standard Error:	490000
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 410-233459/18	1.0	2.562134	50.0	155632.0	2.562134	Y
2	IC 410-233459/17	2.5	7.242254	50.0	134454.0	2.896902	Y
3	IC 410-233459/16	5.0	14.236528	50.0	144059.0	2.847306	Y
4	IC 410-233459/15	10.0	28.480348	50.0	140927.0	2.848035	Y
5	IC 410-233459/14	25.0	71.235353	50.0	149941.0	2.849414	Y
6	ICIS 410-233459/13	50.0	145.265334	50.0	147286.0	2.905307	Y
7	IC 410-233459/12	125.0	364.438138	50.0	150473.0	2.915505	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

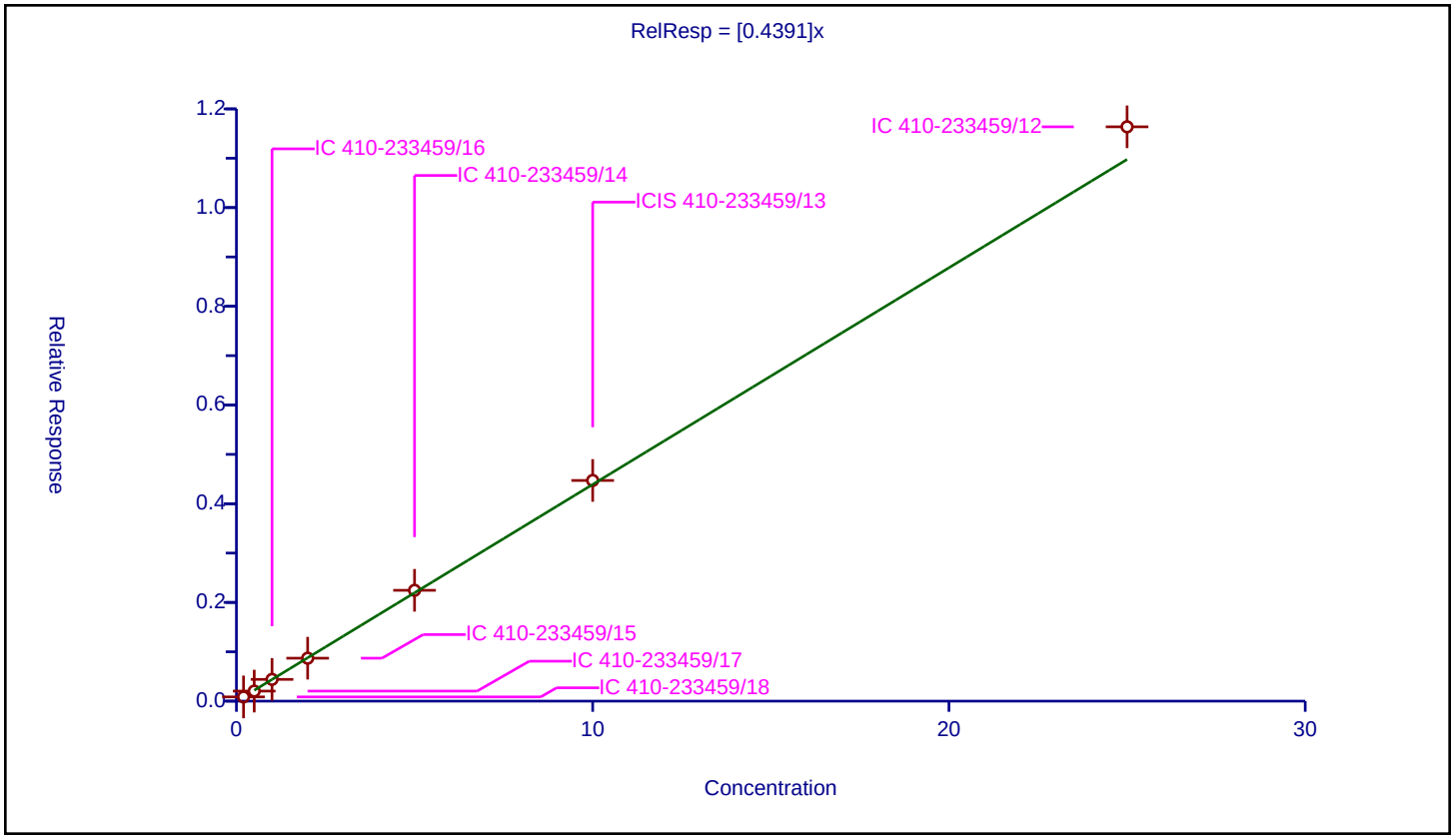
Curve Coefficients

Intercept:	0
Slope:	0.4391

Error Coefficients

Standard Error:	1030000
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 410-233459/18	0.2	0.085675	10.0	2021821.0	0.428376	Y
2	IC 410-233459/17	0.5	0.20372	10.0	2017326.0	0.40744	Y
3	IC 410-233459/16	1.0	0.440668	10.0	2010448.0	0.440668	Y
4	IC 410-233459/15	2.0	0.870412	10.0	2005717.0	0.435206	Y
5	IC 410-233459/14	5.0	2.24559	10.0	2008310.0	0.449118	Y
6	ICIS 410-233459/13	10.0	4.47119	10.0	2018353.0	0.447119	Y
7	IC 410-233459/12	25.0	11.637028	10.0	1979820.0	0.465481	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

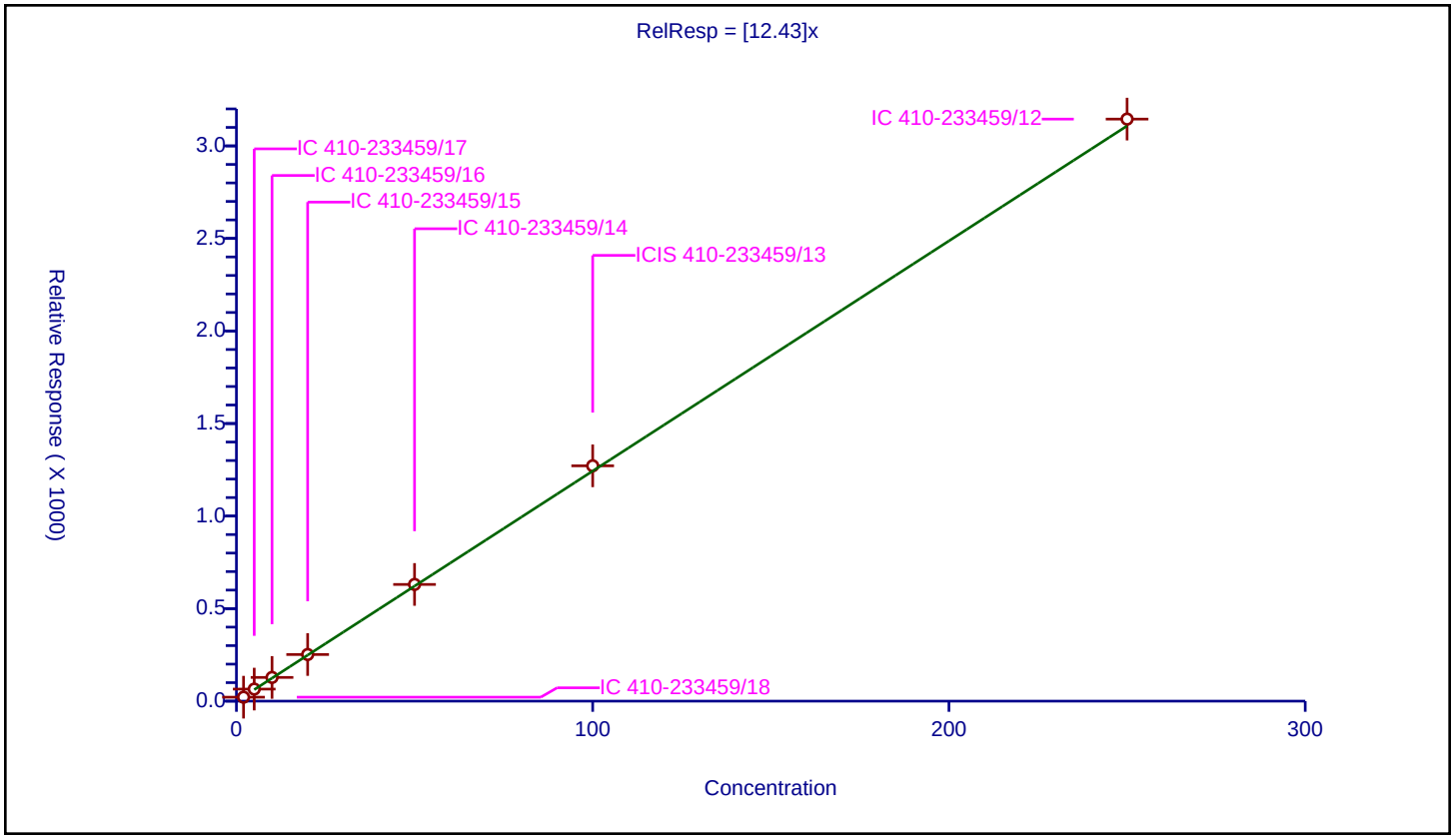
Curve Coefficients

Intercept:	0
Slope:	12.43

Error Coefficients

Standard Error:	4240000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	2.0	21.386026	50.0	155632.0	10.693013	Y
2	IC 410-233459/17	5.0	65.120785	50.0	134454.0	13.024157	Y
3	IC 410-233459/16	10.0	128.116952	50.0	144059.0	12.811695	Y
4	IC 410-233459/15	20.0	251.927949	50.0	140927.0	12.596397	Y
5	IC 410-233459/14	50.0	630.575693	50.0	149941.0	12.611514	Y
6	ICIS 410-233459/13	100.0	1271.463683	50.0	147286.0	12.714637	Y
7	IC 410-233459/12	250.0	3144.914702	50.0	150473.0	12.579659	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

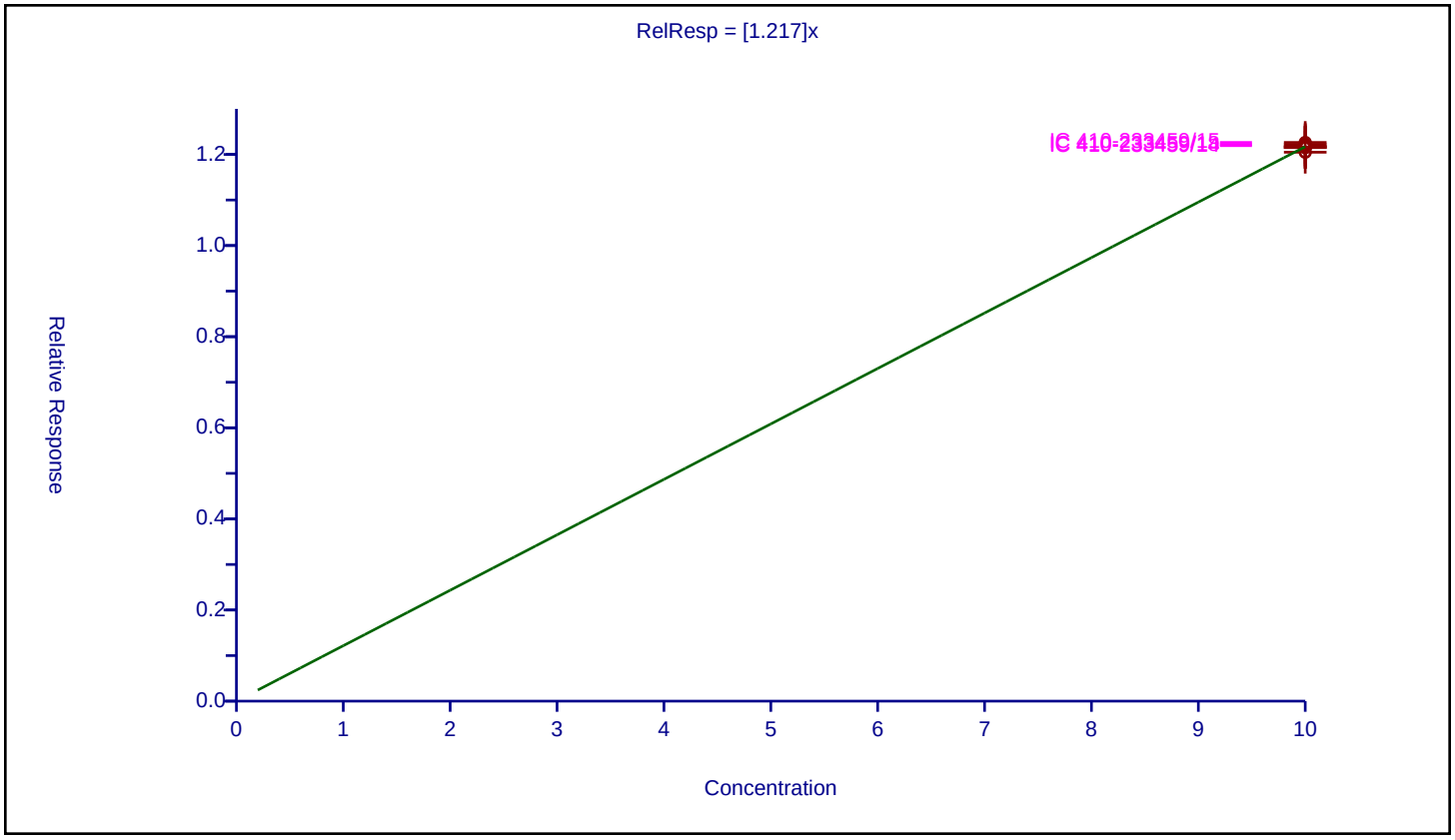
Curve Coefficients

Intercept:	0
Slope:	1.217

Error Coefficients

Standard Error:	2210000
Relative Standard Error:	0.6
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/12	10.0	12.047995	10.0	1697885.0	1.2048	Y
2	ICIS 410-233459/13	10.0	12.157123	10.0	1700909.0	1.215712	Y
3	IC 410-233459/14	10.0	12.19244	10.0	1684584.0	1.219244	Y
4	IC 410-233459/15	10.0	12.263508	10.0	1668976.0	1.226351	Y
5	IC 410-233459/16	10.0	12.157389	10.0	1674640.0	1.215739	Y
6	IC 410-233459/17	10.0	12.149542	10.0	1674650.0	1.214954	Y
7	IC 410-233459/18	10.0	12.218467	10.0	1678767.0	1.221847	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

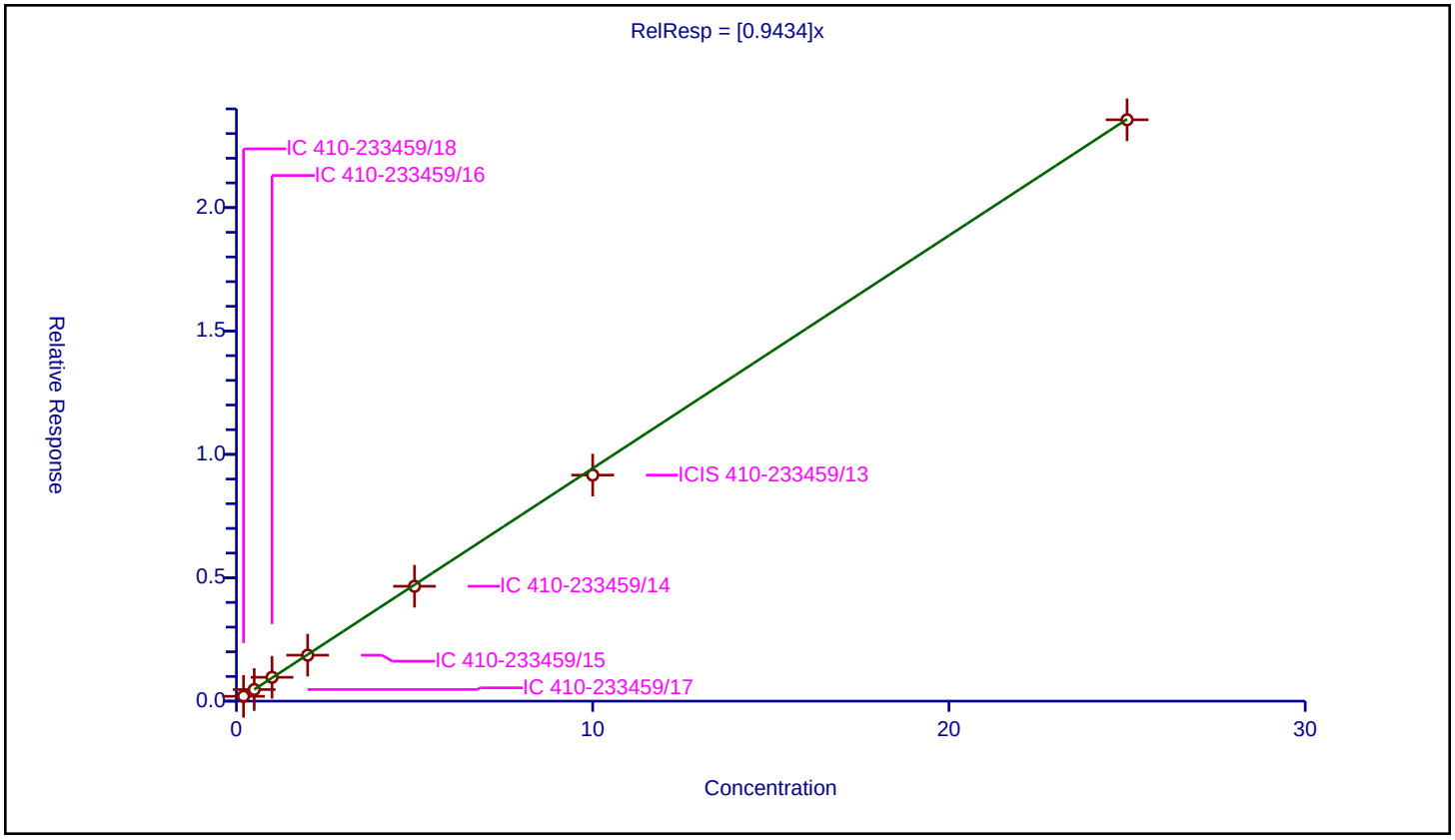
Curve Coefficients

Intercept:	0
Slope:	0.9434

Error Coefficients

Standard Error:	1790000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.195399	10.0	1678767.0	0.976997	Y
2	IC 410-233459/17	0.5	0.470086	10.0	1674650.0	0.940173	Y
3	IC 410-233459/16	1.0	0.966226	10.0	1674640.0	0.966226	Y
4	IC 410-233459/15	2.0	1.861812	10.0	1668976.0	0.930906	Y
5	IC 410-233459/14	5.0	4.655179	10.0	1684584.0	0.931036	Y
6	ICIS 410-233459/13	10.0	9.159949	10.0	1700909.0	0.915995	Y
7	IC 410-233459/12	25.0	23.558256	10.0	1697885.0	0.94233	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

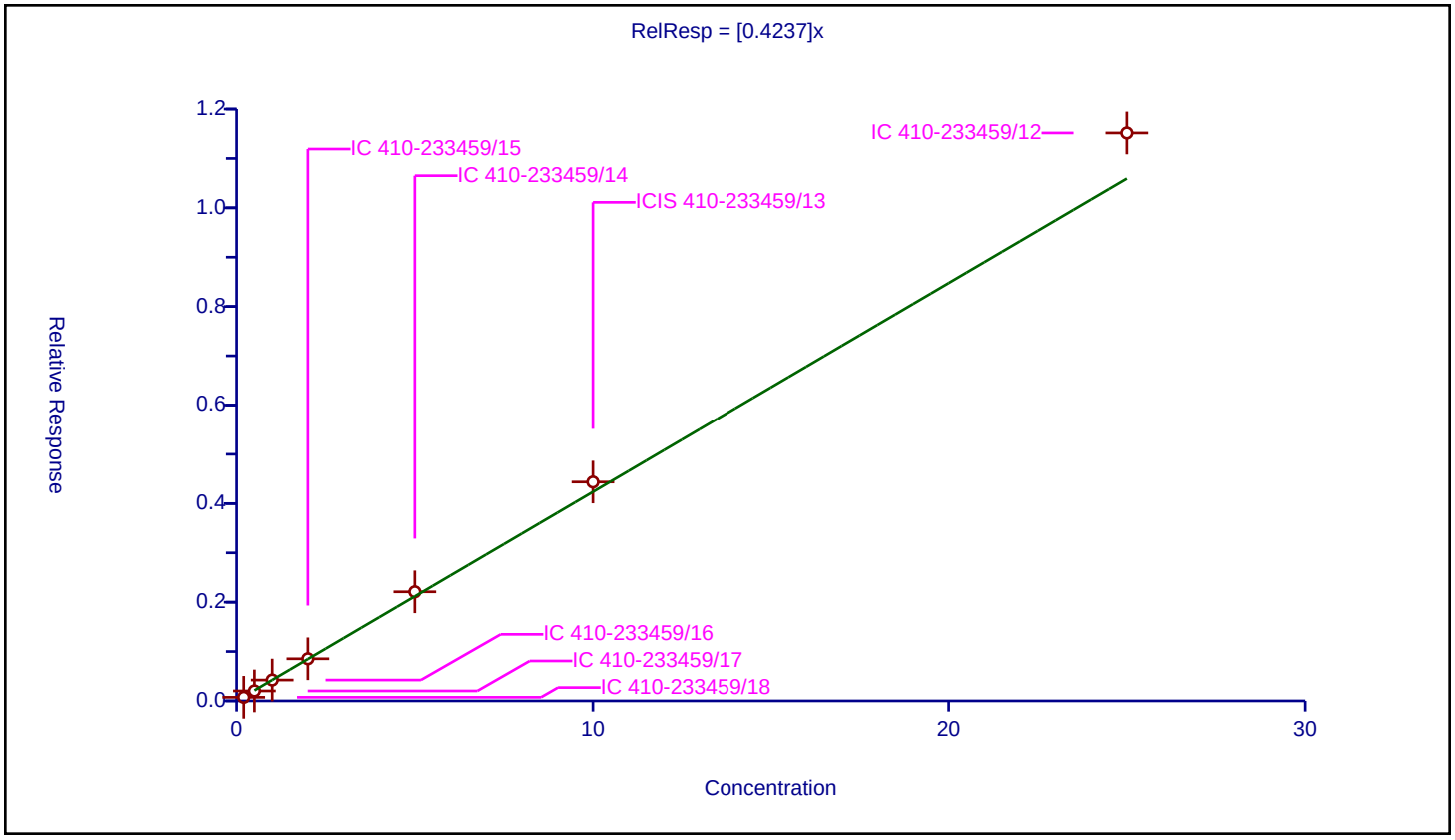
Curve Coefficients

Intercept:	0
Slope:	0.4237

Error Coefficients

Standard Error:	872000
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 410-233459/18	0.2	0.073048	10.0	1678767.0	0.365238	Y
2	IC 410-233459/17	0.5	0.202341	10.0	1674650.0	0.404682	Y
3	IC 410-233459/16	1.0	0.422795	10.0	1674640.0	0.422795	Y
4	IC 410-233459/15	2.0	0.853535	10.0	1668976.0	0.426768	Y
5	IC 410-233459/14	5.0	2.210943	10.0	1684584.0	0.442189	Y
6	ICIS 410-233459/13	10.0	4.437439	10.0	1700909.0	0.443744	Y
7	IC 410-233459/12	25.0	11.516175	10.0	1697885.0	0.460647	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

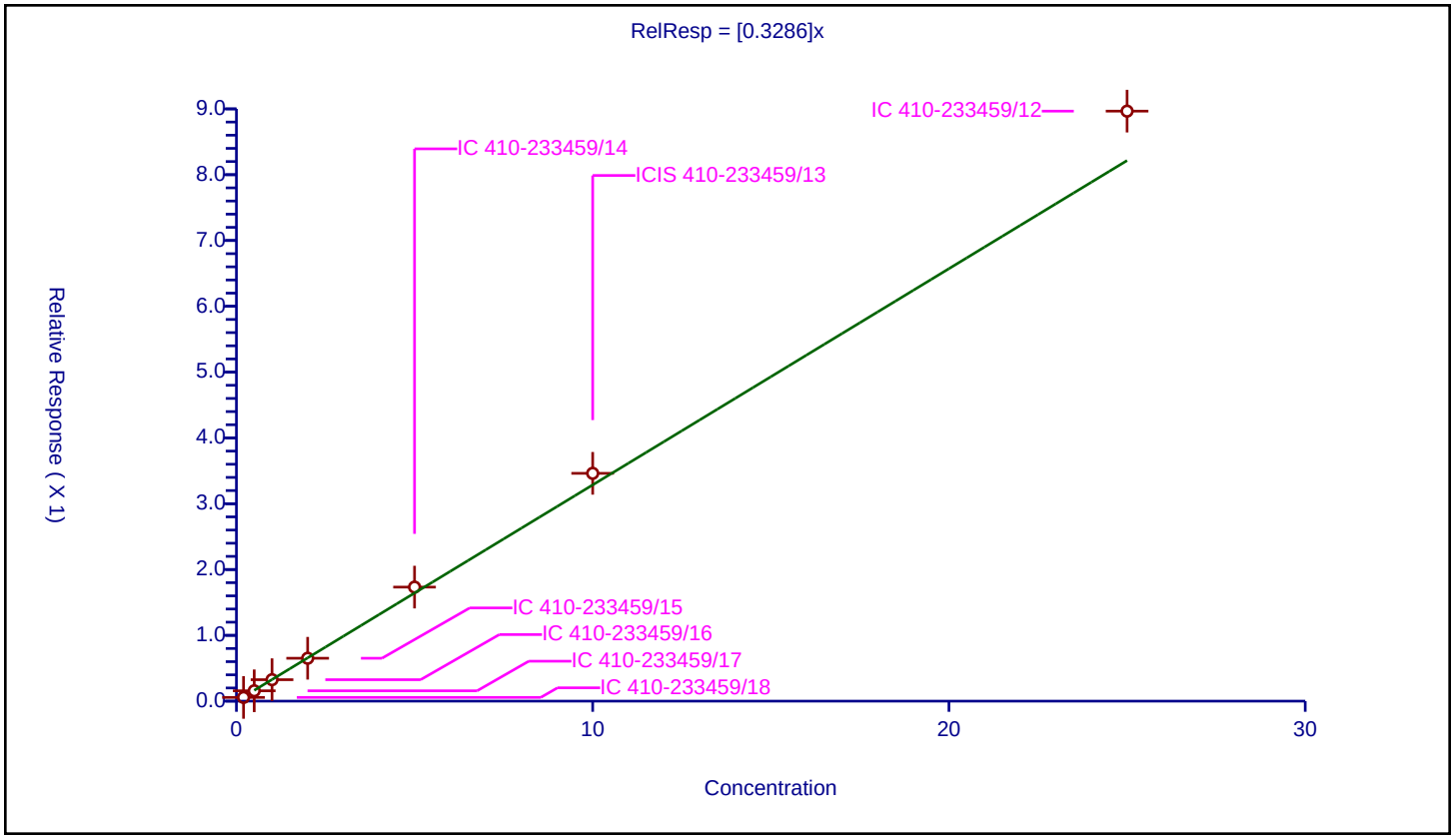
Curve Coefficients

Intercept:	0
Slope:	0.3286

Error Coefficients

Standard Error:	679000
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 410-233459/18	0.2	0.05647	10.0	1678767.0	0.28235	Y
2	IC 410-233459/17	0.5	0.157245	10.0	1674650.0	0.31449	Y
3	IC 410-233459/16	1.0	0.326124	10.0	1674640.0	0.326124	Y
4	IC 410-233459/15	2.0	0.651729	10.0	1668976.0	0.325864	Y
5	IC 410-233459/14	5.0	1.732742	10.0	1684584.0	0.346548	Y
6	ICIS 410-233459/13	10.0	3.462008	10.0	1700909.0	0.346201	Y
7	IC 410-233459/12	25.0	8.965896	10.0	1697885.0	0.358636	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

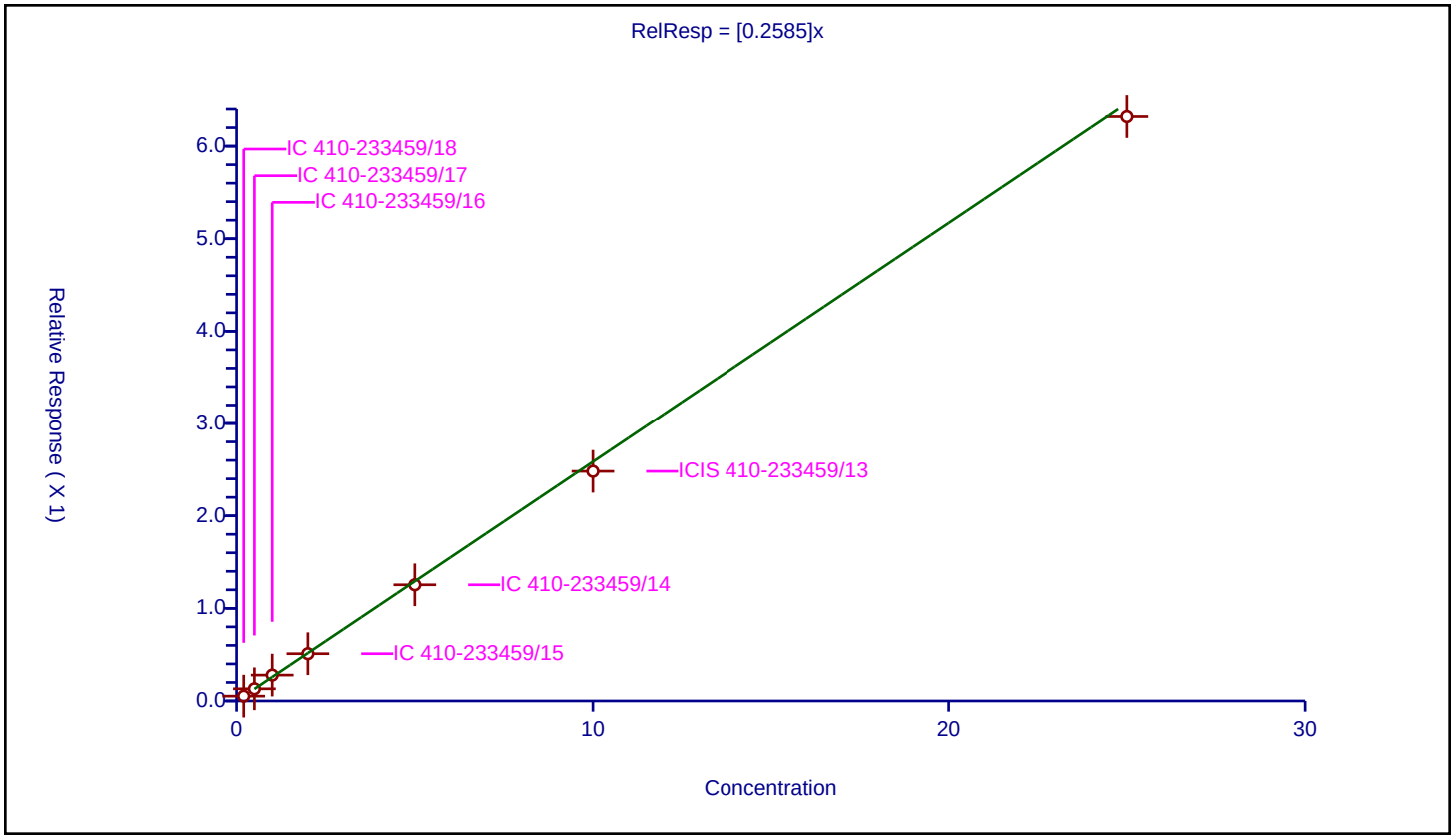
Curve Coefficients

Intercept:	0
Slope:	0.2585

Error Coefficients

Standard Error:	480000
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 410-233459/18	0.2	0.052116	10.0	1678767.0	0.260578	Y
2	IC 410-233459/17	0.5	0.13146	10.0	1674650.0	0.262921	Y
3	IC 410-233459/16	1.0	0.279266	10.0	1674640.0	0.279266	Y
4	IC 410-233459/15	2.0	0.510235	10.0	1668976.0	0.255118	Y
5	IC 410-233459/14	5.0	1.254333	10.0	1684584.0	0.250867	Y
6	ICIS 410-233459/13	10.0	2.481667	10.0	1700909.0	0.248167	Y
7	IC 410-233459/12	25.0	6.319415	10.0	1697885.0	0.252777	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

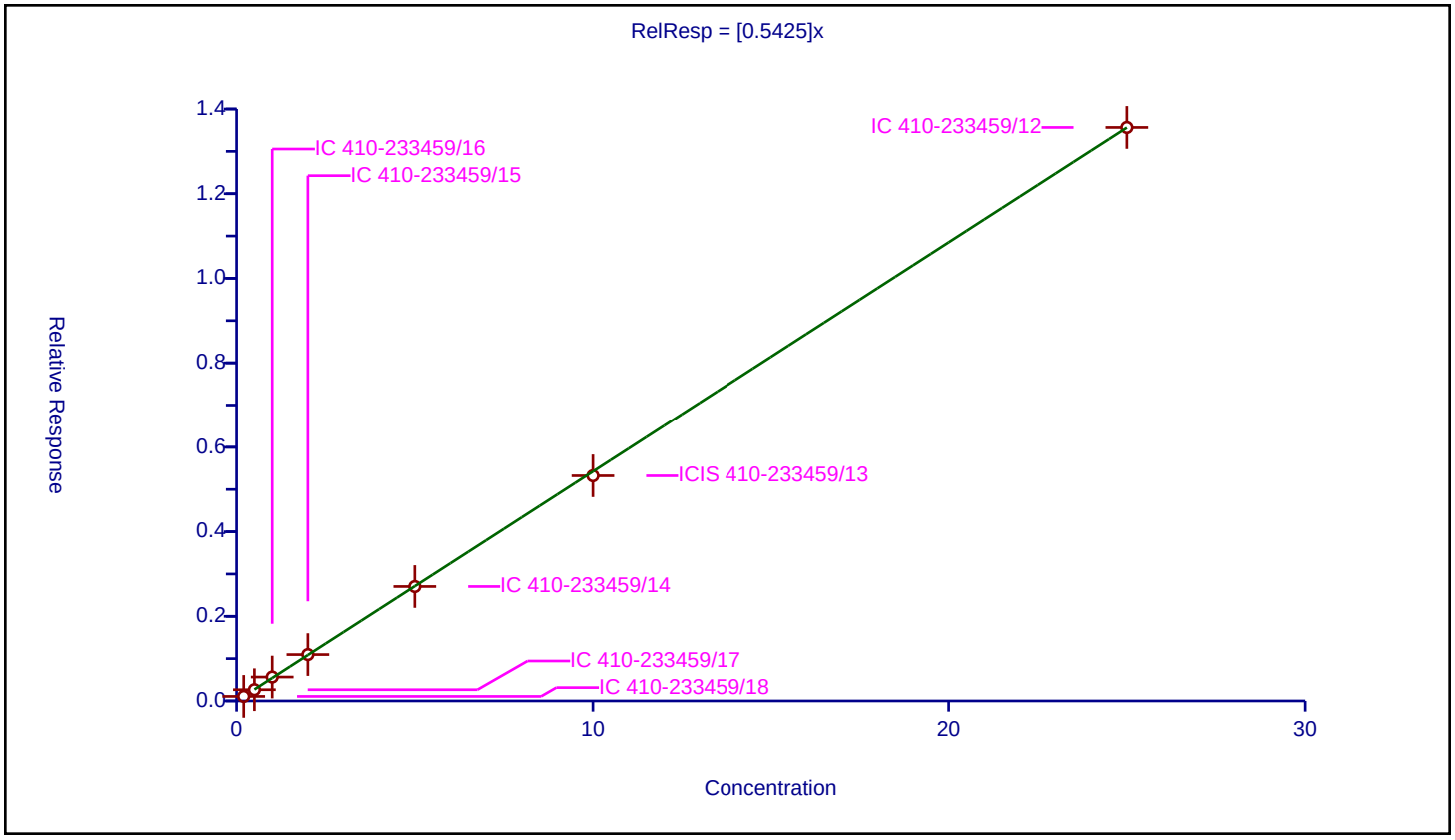
Curve Coefficients

Intercept:	0
Slope:	0.5425

Error Coefficients

Standard Error:	1030000
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.107537	10.0	1678767.0	0.537686	Y
2	IC 410-233459/17	0.5	0.265542	10.0	1674650.0	0.531084	Y
3	IC 410-233459/16	1.0	0.564957	10.0	1674640.0	0.564957	Y
4	IC 410-233459/15	2.0	1.095558	10.0	1668976.0	0.547779	Y
5	IC 410-233459/14	5.0	2.70411	10.0	1684584.0	0.540822	Y
6	ICIS 410-233459/13	10.0	5.32423	10.0	1700909.0	0.532423	Y
7	IC 410-233459/12	25.0	13.564823	10.0	1697885.0	0.542593	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

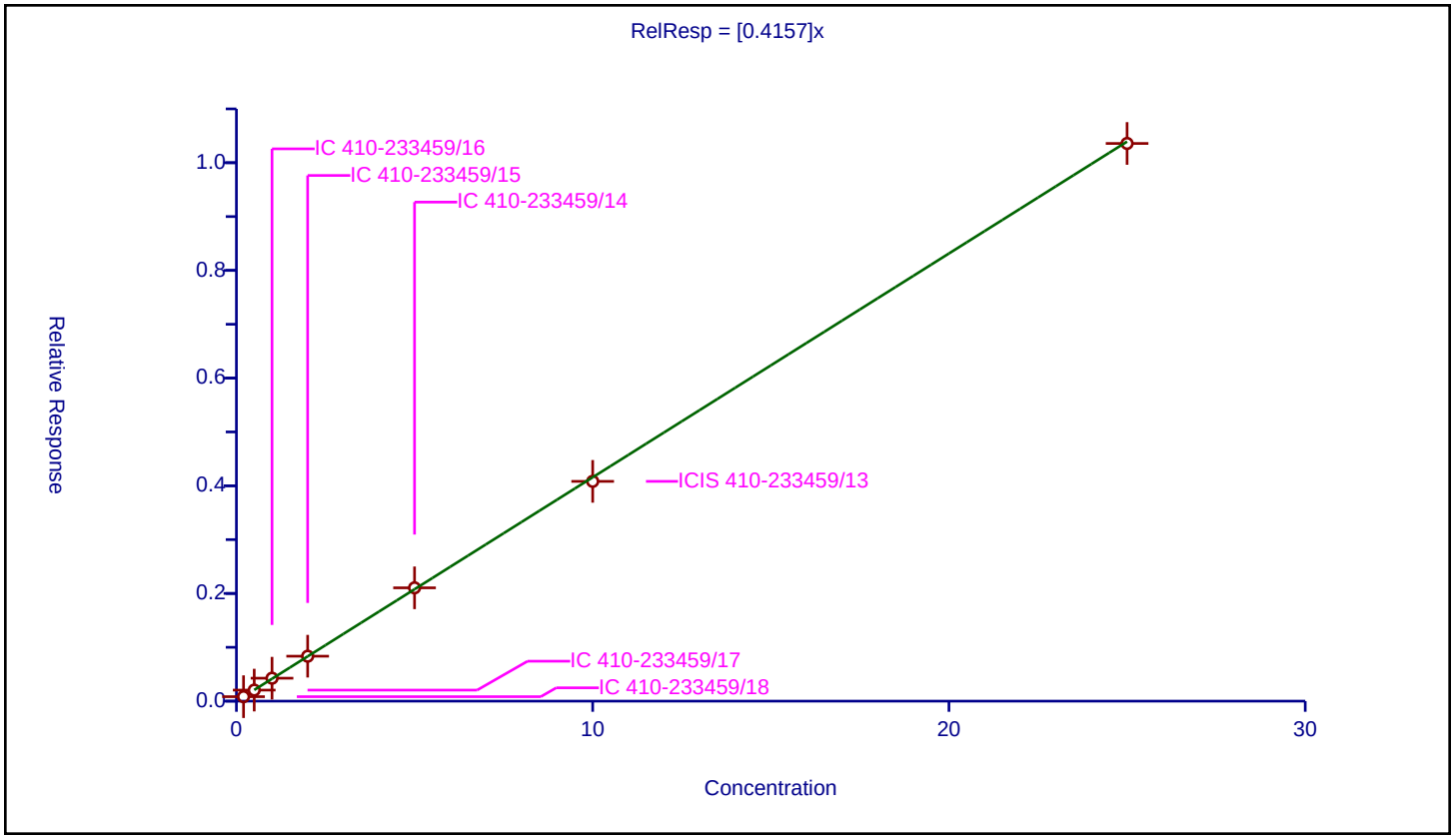
Curve Coefficients

Intercept:	0
Slope:	0.4157

Error Coefficients

Standard Error:	788000
Relative Standard Error:	1.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.082632	10.0	1678767.0	0.41316	Y
2	IC 410-233459/17	0.5	0.205016	10.0	1674650.0	0.410032	Y
3	IC 410-233459/16	1.0	0.426002	10.0	1674640.0	0.426002	Y
4	IC 410-233459/15	2.0	0.834679	10.0	1668976.0	0.41734	Y
5	IC 410-233459/14	5.0	2.10462	10.0	1684584.0	0.420924	Y
6	ICIS 410-233459/13	10.0	4.081935	10.0	1700909.0	0.408194	Y
7	IC 410-233459/12	25.0	10.358075	10.0	1697885.0	0.414323	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

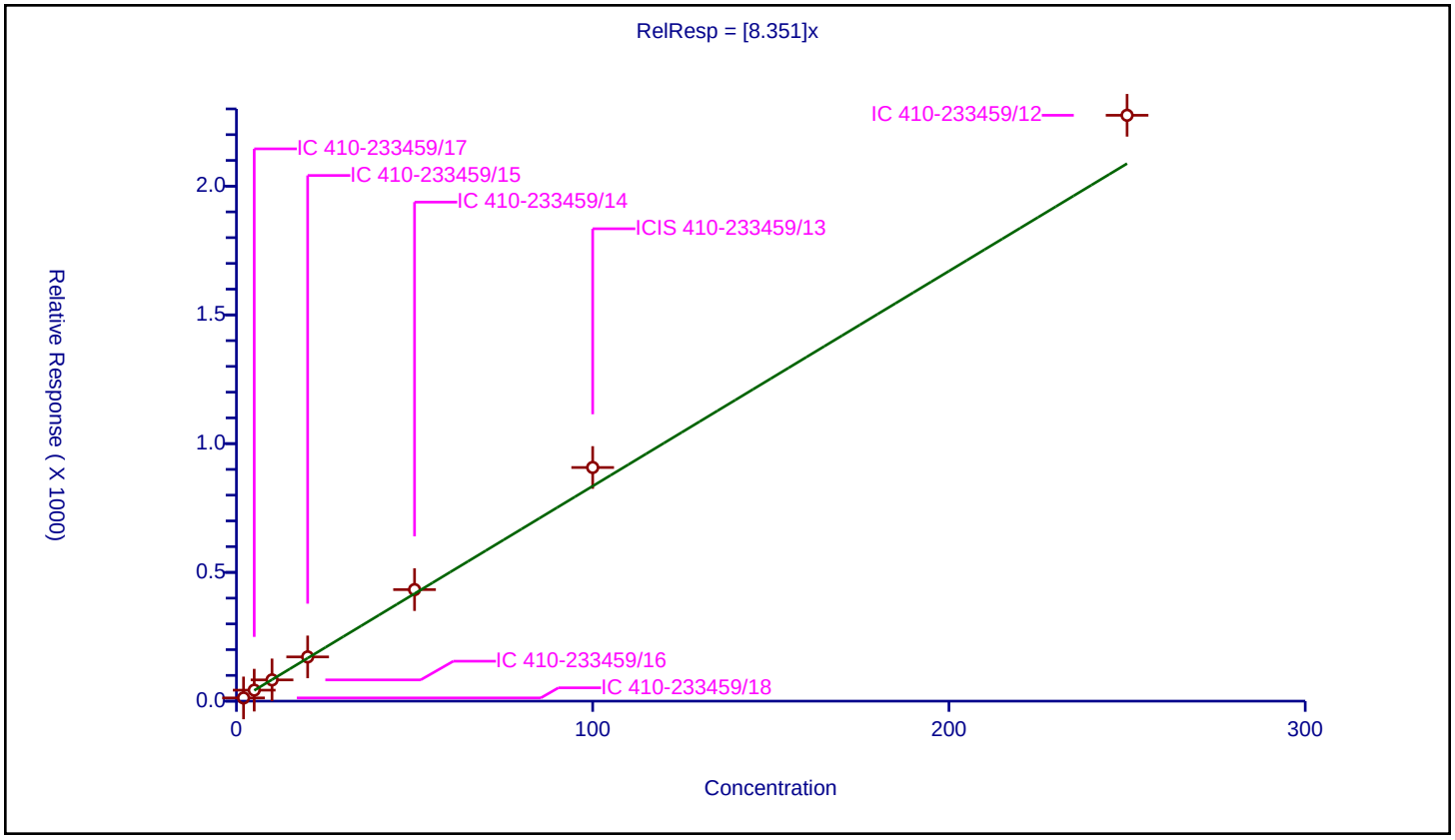
Curve Coefficients

Intercept:	0
Slope:	8.351

Error Coefficients

Standard Error:	3050000
Relative Standard Error:	11.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	2.0	12.490362	50.0	155632.0	6.245181	Y
2	IC 410-233459/17	5.0	42.690065	50.0	134454.0	8.538013	Y
3	IC 410-233459/16	10.0	82.483219	50.0	144059.0	8.248322	Y
4	IC 410-233459/15	20.0	171.713724	50.0	140927.0	8.585686	Y
5	IC 410-233459/14	50.0	433.108356	50.0	149941.0	8.662167	Y
6	ICIS 410-233459/13	100.0	907.417202	50.0	147286.0	9.074172	Y
7	IC 410-233459/12	250.0	2275.181926	50.0	150473.0	9.100728	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

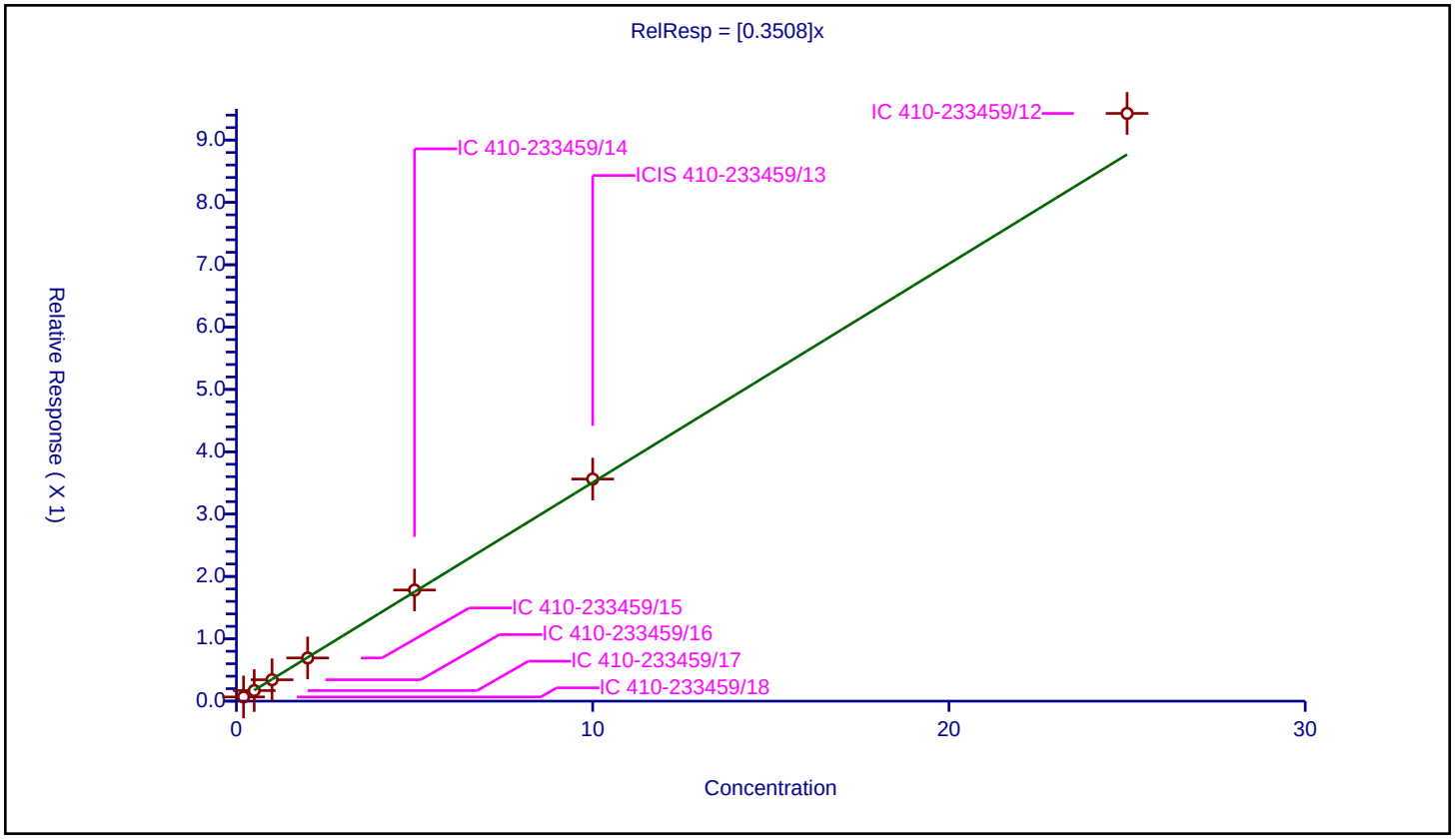
Curve Coefficients

Intercept:	0
Slope:	0.3508

Error Coefficients

Standard Error:	711000
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 410-233459/18	0.2	0.067413	10.0	1678767.0	0.337063	Y
2	IC 410-233459/17	0.5	0.169689	10.0	1674650.0	0.339378	Y
3	IC 410-233459/16	1.0	0.342802	10.0	1674640.0	0.342802	Y
4	IC 410-233459/15	2.0	0.69258	10.0	1668976.0	0.34629	Y
5	IC 410-233459/14	5.0	1.782357	10.0	1684584.0	0.356471	Y
6	ICIS 410-233459/13	10.0	3.562283	10.0	1700909.0	0.356228	Y
7	IC 410-233459/12	25.0	9.42724	10.0	1697885.0	0.37709	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

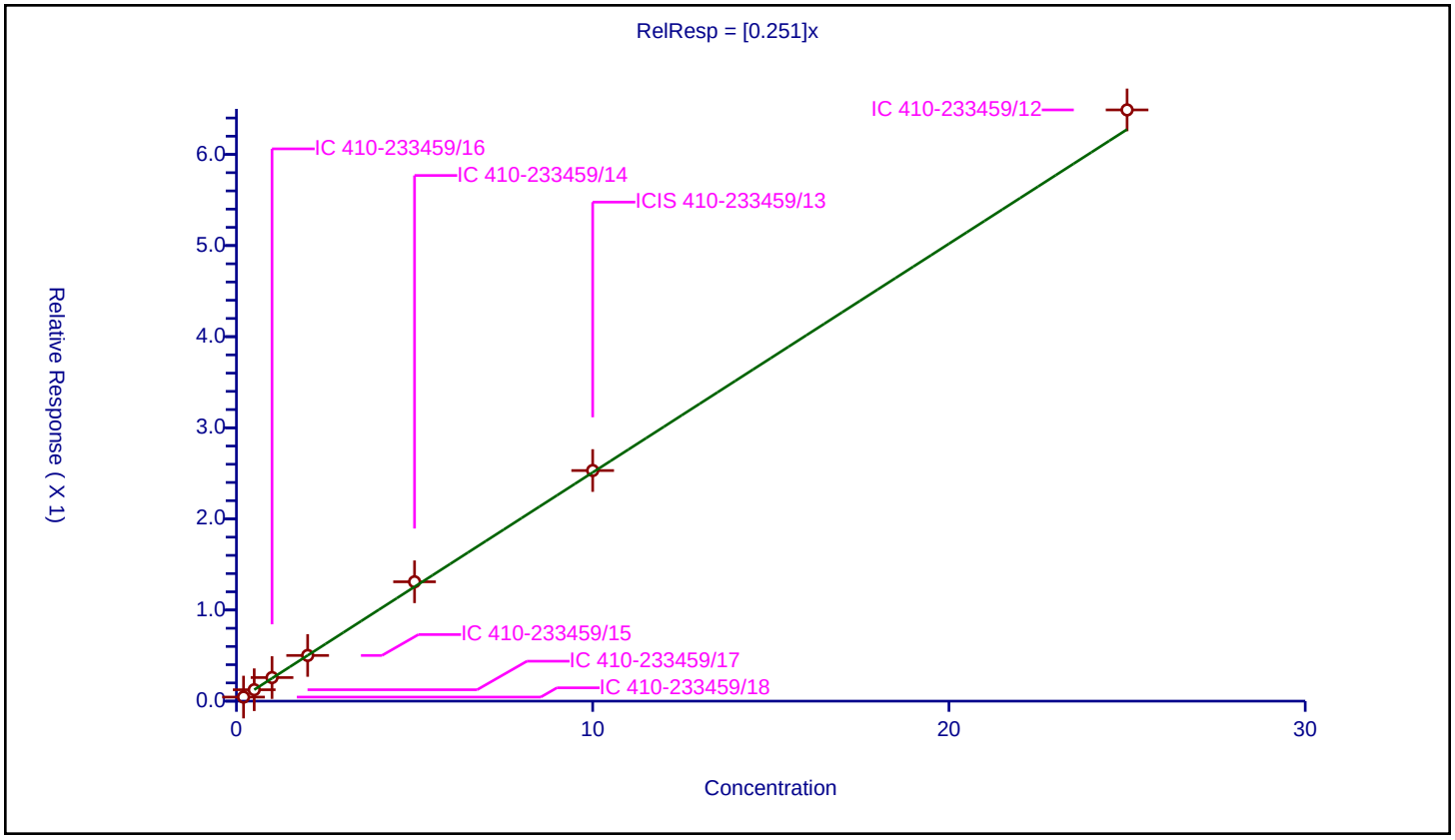
Curve Coefficients

Intercept:	0
Slope:	0.251

Error Coefficients

Standard Error:	493000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.044437	10.0	1678767.0	0.222187	Y
2	IC 410-233459/17	0.5	0.12534	10.0	1674650.0	0.250679	Y
3	IC 410-233459/16	1.0	0.258772	10.0	1674640.0	0.258772	Y
4	IC 410-233459/15	2.0	0.501397	10.0	1668976.0	0.250699	Y
5	IC 410-233459/14	5.0	1.309855	10.0	1684584.0	0.261971	Y
6	ICIS 410-233459/13	10.0	2.53097	10.0	1700909.0	0.253097	Y
7	IC 410-233459/12	25.0	6.489002	10.0	1697885.0	0.25956	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

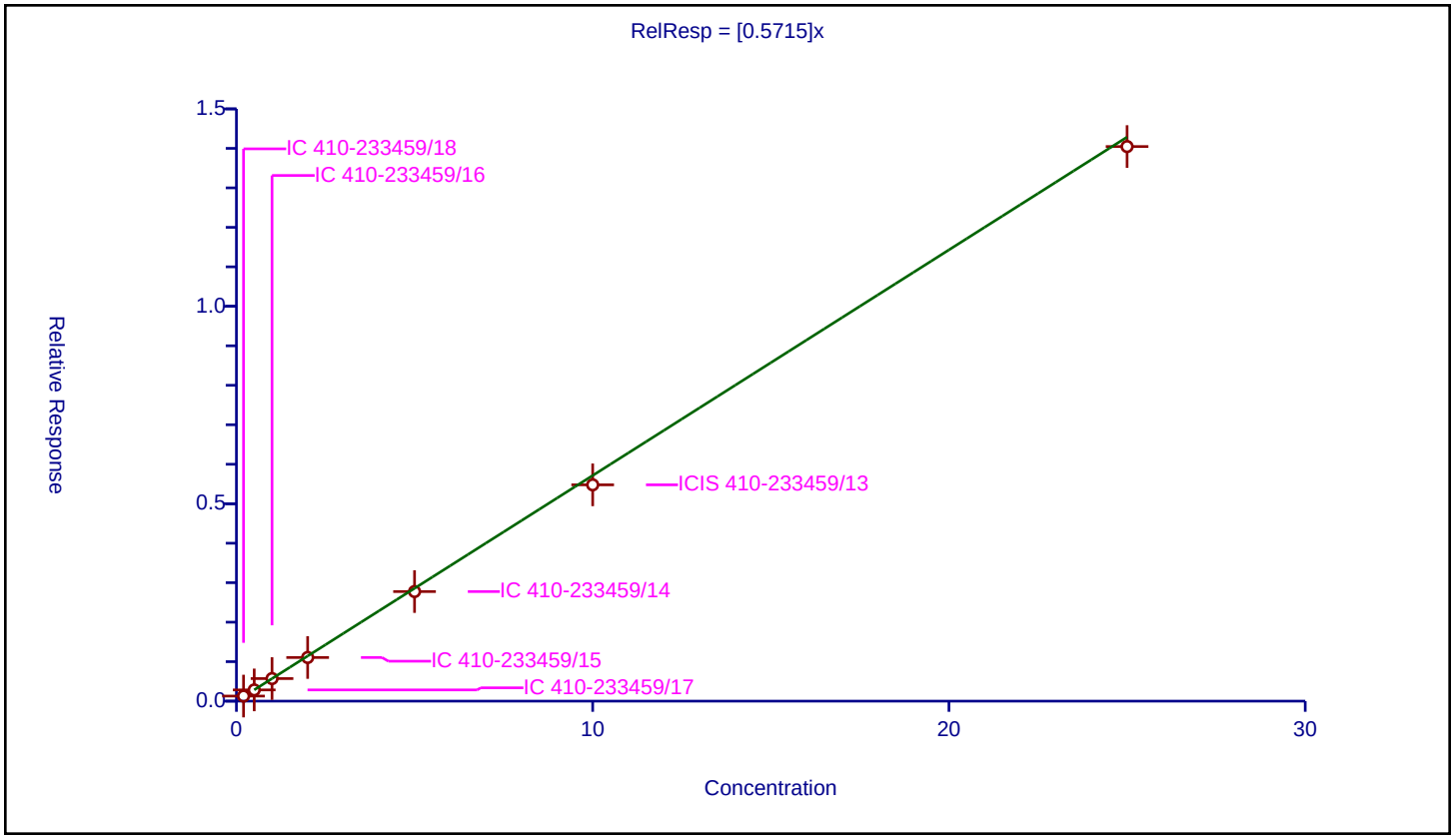
Curve Coefficients

Intercept:	0
Slope:	0.5715

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.128368	10.0	1678767.0	0.64184	Y
2	IC 410-233459/17	0.5	0.284549	10.0	1674650.0	0.569098	Y
3	IC 410-233459/16	1.0	0.571663	10.0	1674640.0	0.571663	Y
4	IC 410-233459/15	2.0	1.105612	10.0	1668976.0	0.552806	Y
5	IC 410-233459/14	5.0	2.775736	10.0	1684584.0	0.555147	Y
6	ICIS 410-233459/13	10.0	5.478241	10.0	1700909.0	0.547824	Y
7	IC 410-233459/12	25.0	14.046258	10.0	1697885.0	0.56185	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

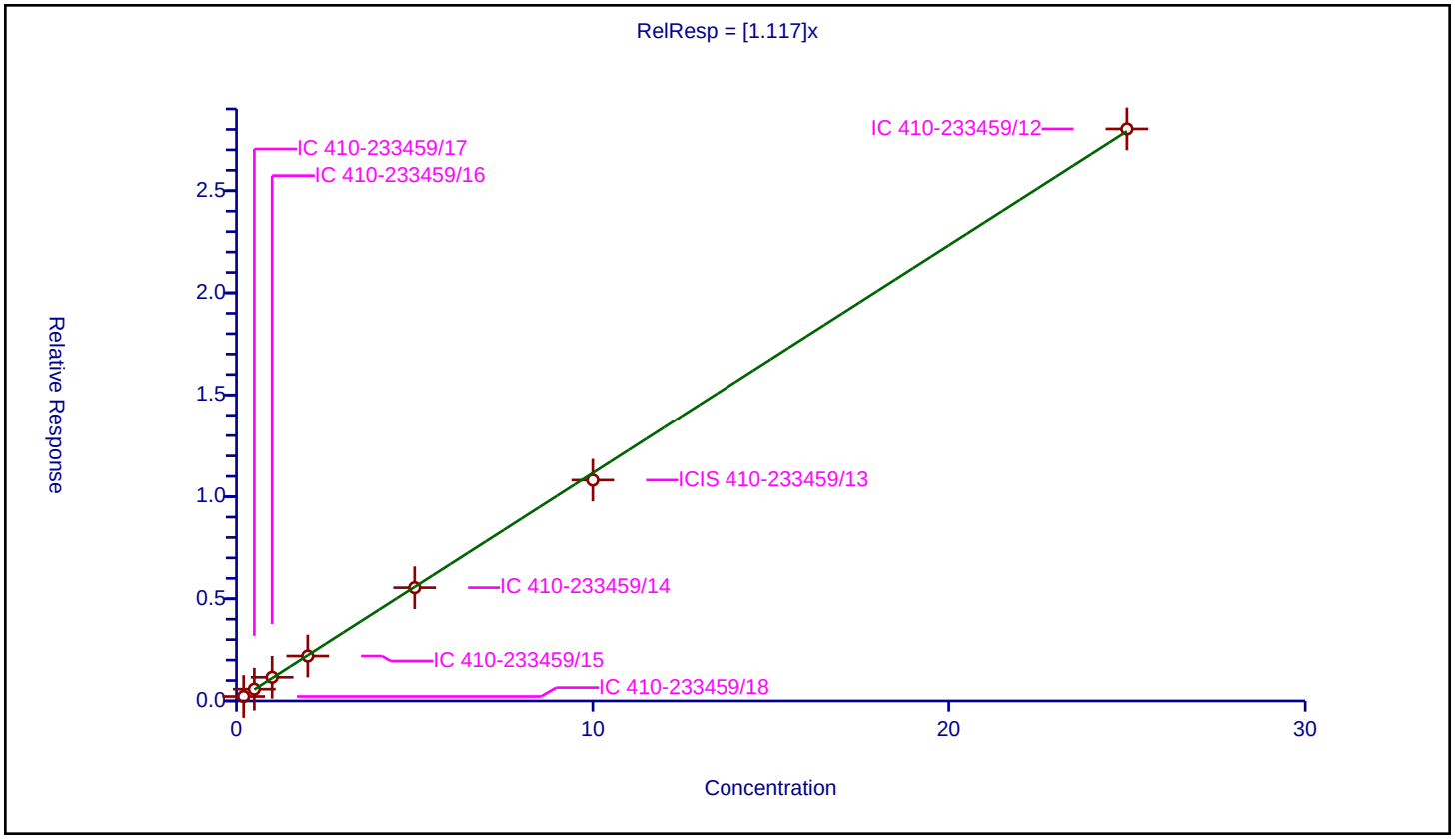
Curve Coefficients

Intercept:	0
Slope:	1.117

Error Coefficients

Standard Error:	2120000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.21847	10.0	1678767.0	1.092349	Y
2	IC 410-233459/17	0.5	0.577004	10.0	1674650.0	1.154008	Y
3	IC 410-233459/16	1.0	1.159372	10.0	1674640.0	1.159372	Y
4	IC 410-233459/15	2.0	2.197653	10.0	1668976.0	1.098826	Y
5	IC 410-233459/14	5.0	5.54433	10.0	1684584.0	1.108866	Y
6	ICIS 410-233459/13	10.0	10.813095	10.0	1700909.0	1.081309	Y
7	IC 410-233459/12	25.0	28.024719	10.0	1697885.0	1.120989	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

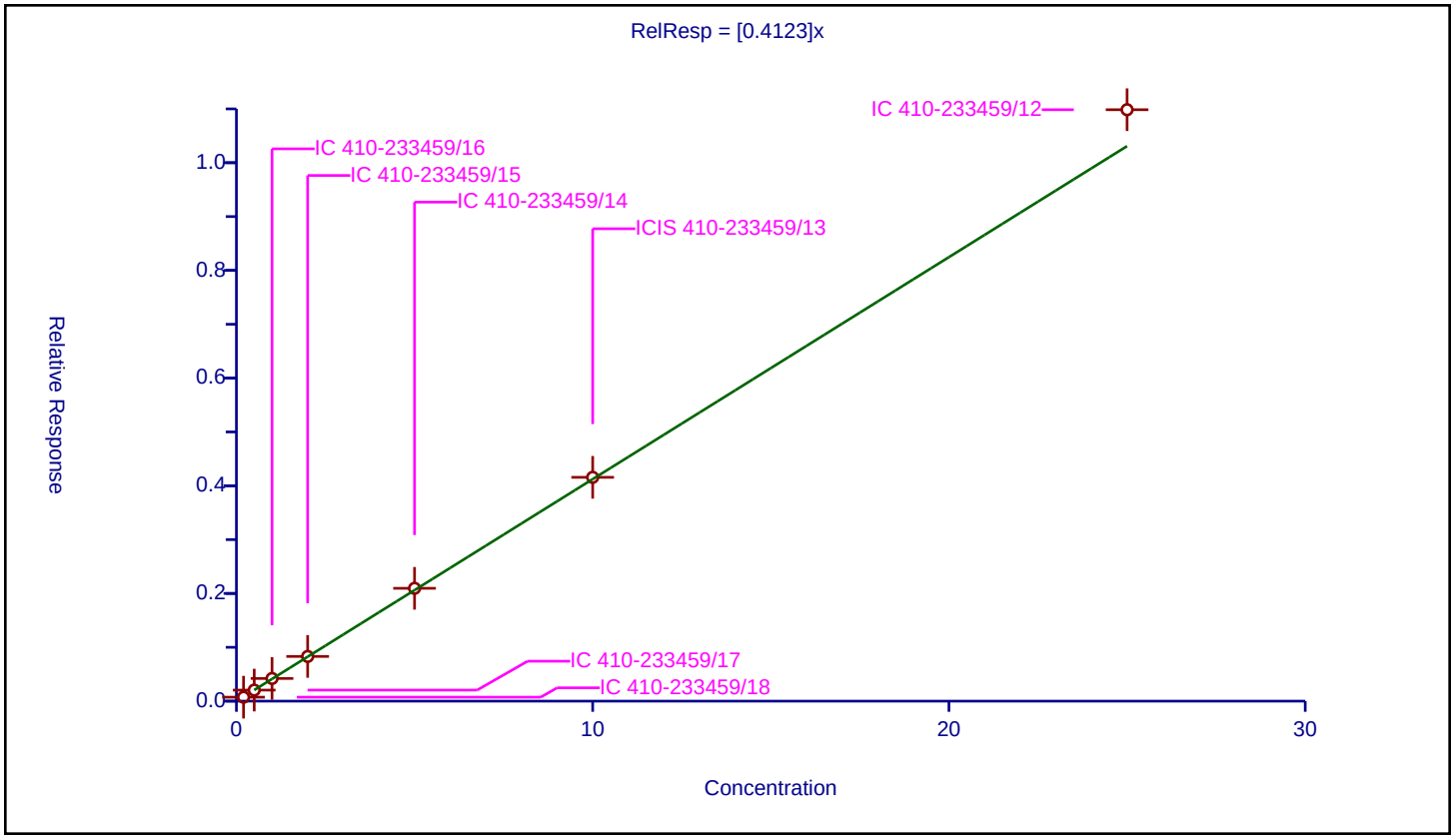
Curve Coefficients

Intercept:	0
Slope:	0.4123

Error Coefficients

Standard Error:	829000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.073232	10.0	1678767.0	0.366162	Y
2	IC 410-233459/17	0.5	0.204903	10.0	1674650.0	0.409805	Y
3	IC 410-233459/16	1.0	0.421123	10.0	1674640.0	0.421123	Y
4	IC 410-233459/15	2.0	0.83021	10.0	1668976.0	0.415105	Y
5	IC 410-233459/14	5.0	2.095621	10.0	1684584.0	0.419124	Y
6	ICIS 410-233459/13	10.0	4.156854	10.0	1700909.0	0.415685	Y
7	IC 410-233459/12	25.0	10.984531	10.0	1697885.0	0.439381	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

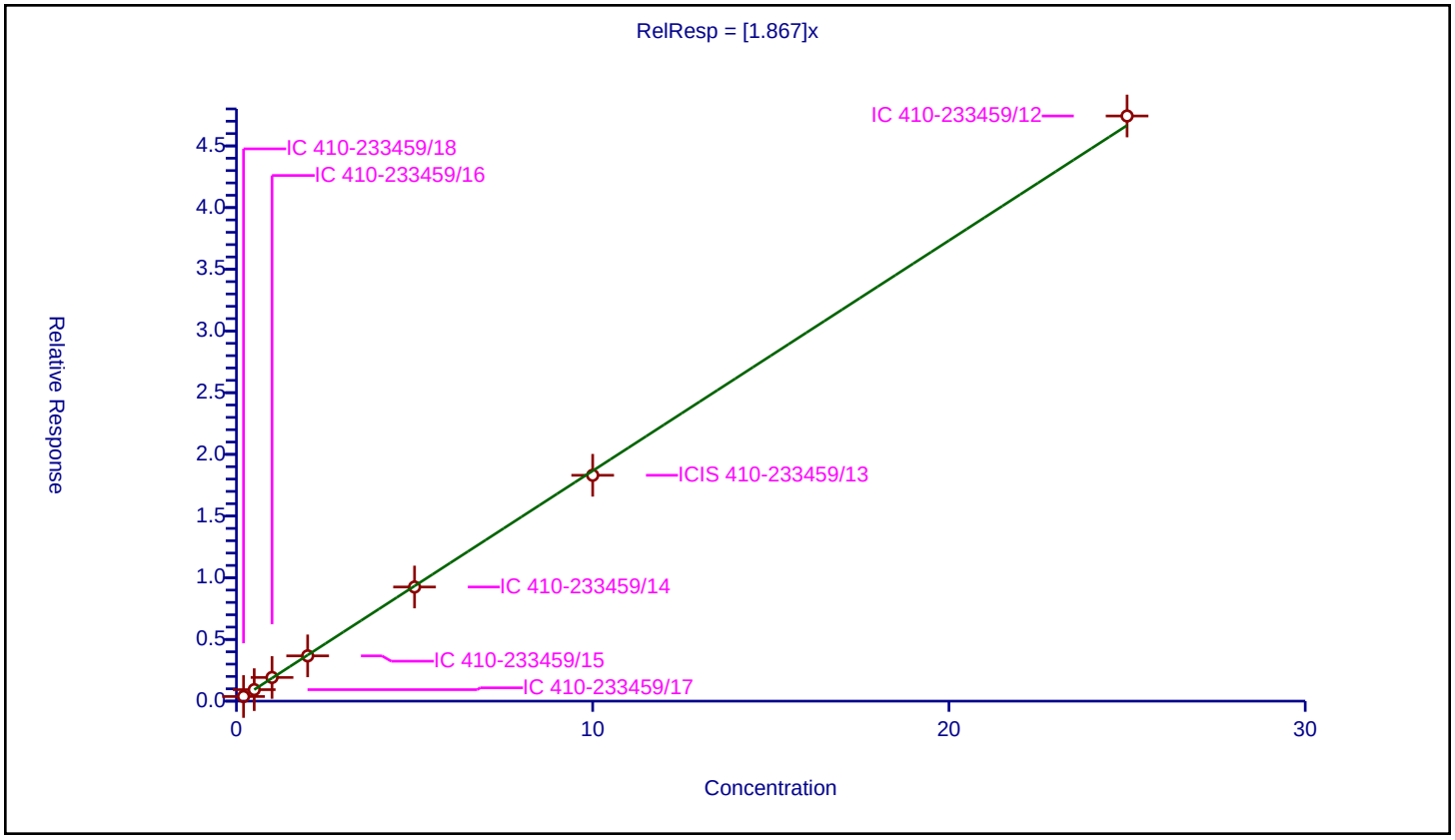
Curve Coefficients

Intercept:	0
Slope:	1.867

Error Coefficients

Standard Error:	3590000
Relative Standard Error:	1.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.374346	10.0	1678767.0	1.871731	Y
2	IC 410-233459/17	0.5	0.931598	10.0	1674650.0	1.863195	Y
3	IC 410-233459/16	1.0	1.919386	10.0	1674640.0	1.919386	Y
4	IC 410-233459/15	2.0	3.667494	10.0	1668976.0	1.833747	Y
5	IC 410-233459/14	5.0	9.250118	10.0	1684584.0	1.850024	Y
6	ICIS 410-233459/13	10.0	18.306523	10.0	1700909.0	1.830652	Y
7	IC 410-233459/12	25.0	47.42575	10.0	1697885.0	1.89703	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

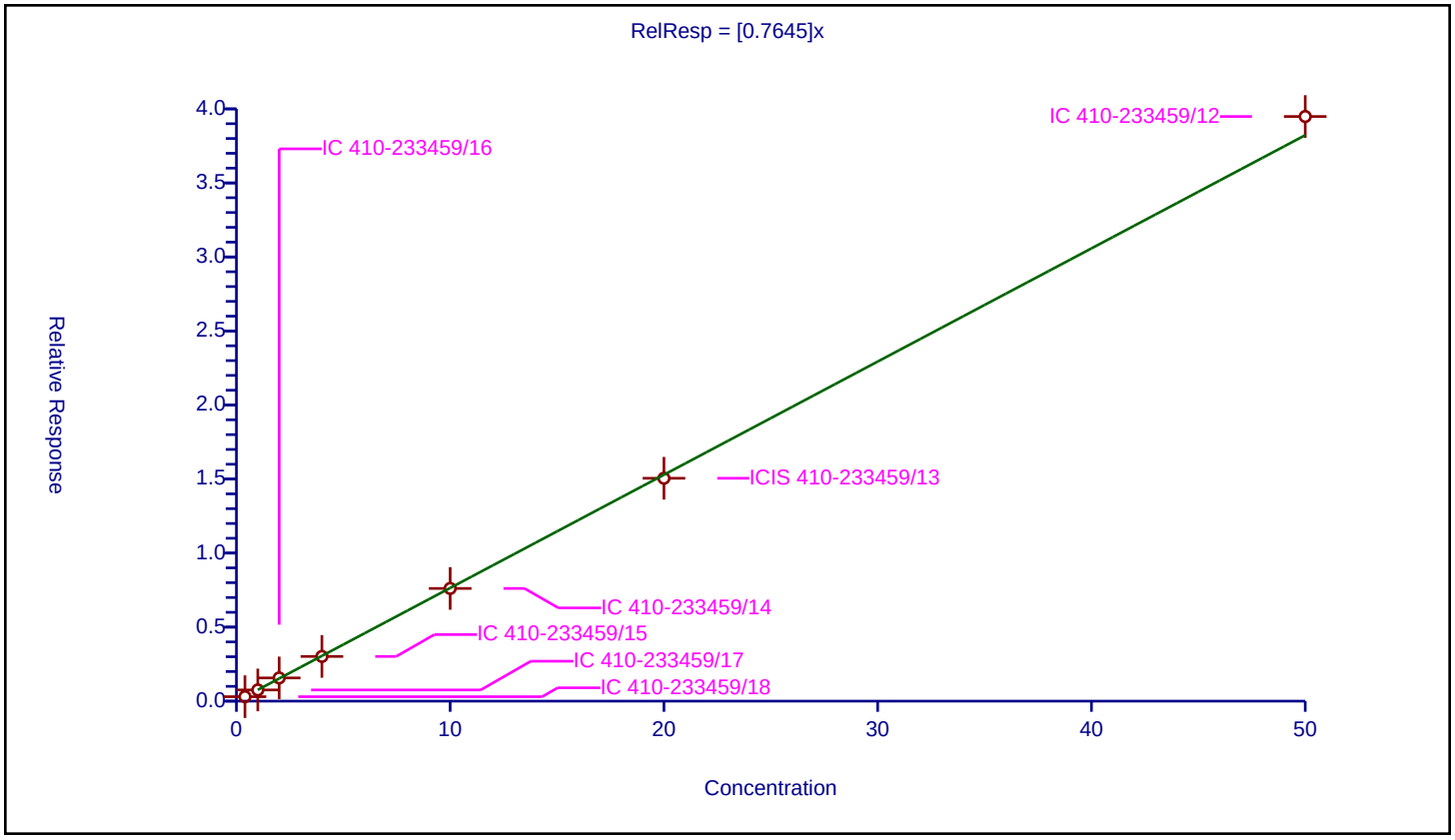
Curve Coefficients

Intercept:	0
Slope:	0.7645

Error Coefficients

Standard Error:	2990000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.4	0.30112	10.0	1678767.0	0.7528	Y
2	IC 410-233459/17	1.0	0.756343	10.0	1674650.0	0.756343	Y
3	IC 410-233459/16	2.0	1.567483	10.0	1674640.0	0.783742	Y
4	IC 410-233459/15	4.0	3.01933	10.0	1668976.0	0.754833	Y
5	IC 410-233459/14	10.0	7.611487	10.0	1684584.0	0.761149	Y
6	ICIS 410-233459/13	20.0	15.052986	10.0	1700909.0	0.752649	Y
7	IC 410-233459/12	50.0	39.484818	10.0	1697885.0	0.789696	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

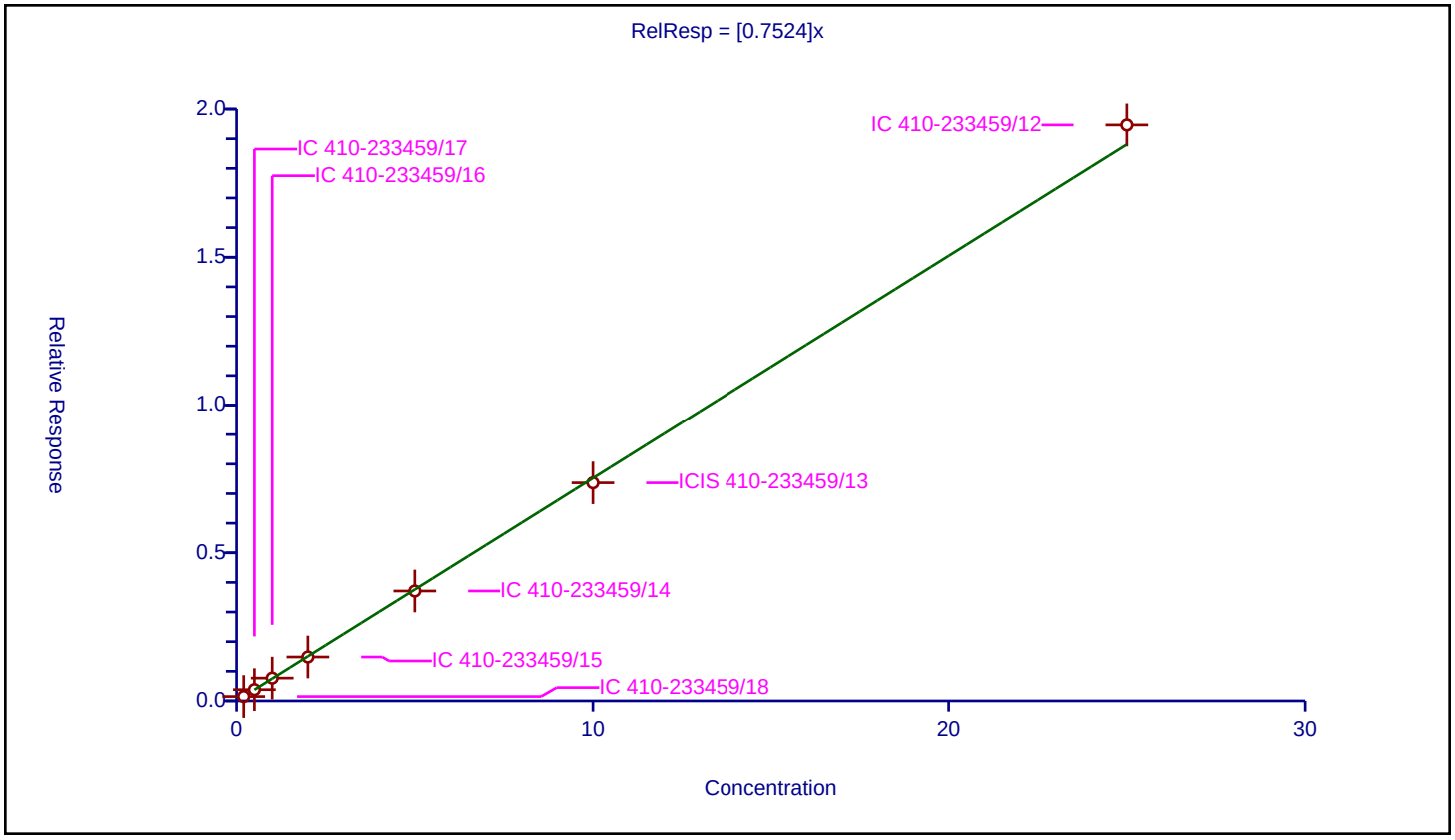
Curve Coefficients

Intercept:	0
Slope:	0.7524

Error Coefficients

Standard Error:	1470000
Relative Standard Error:	2.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.147662	10.0	1678767.0	0.73831	Y
2	IC 410-233459/17	0.5	0.379853	10.0	1674650.0	0.759705	Y
3	IC 410-233459/16	1.0	0.769903	10.0	1674640.0	0.769903	Y
4	IC 410-233459/15	2.0	1.482969	10.0	1668976.0	0.741485	Y
5	IC 410-233459/14	5.0	3.710934	10.0	1684584.0	0.742187	Y
6	ICIS 410-233459/13	10.0	7.365591	10.0	1700909.0	0.736559	Y
7	IC 410-233459/12	25.0	19.464905	10.0	1697885.0	0.778596	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

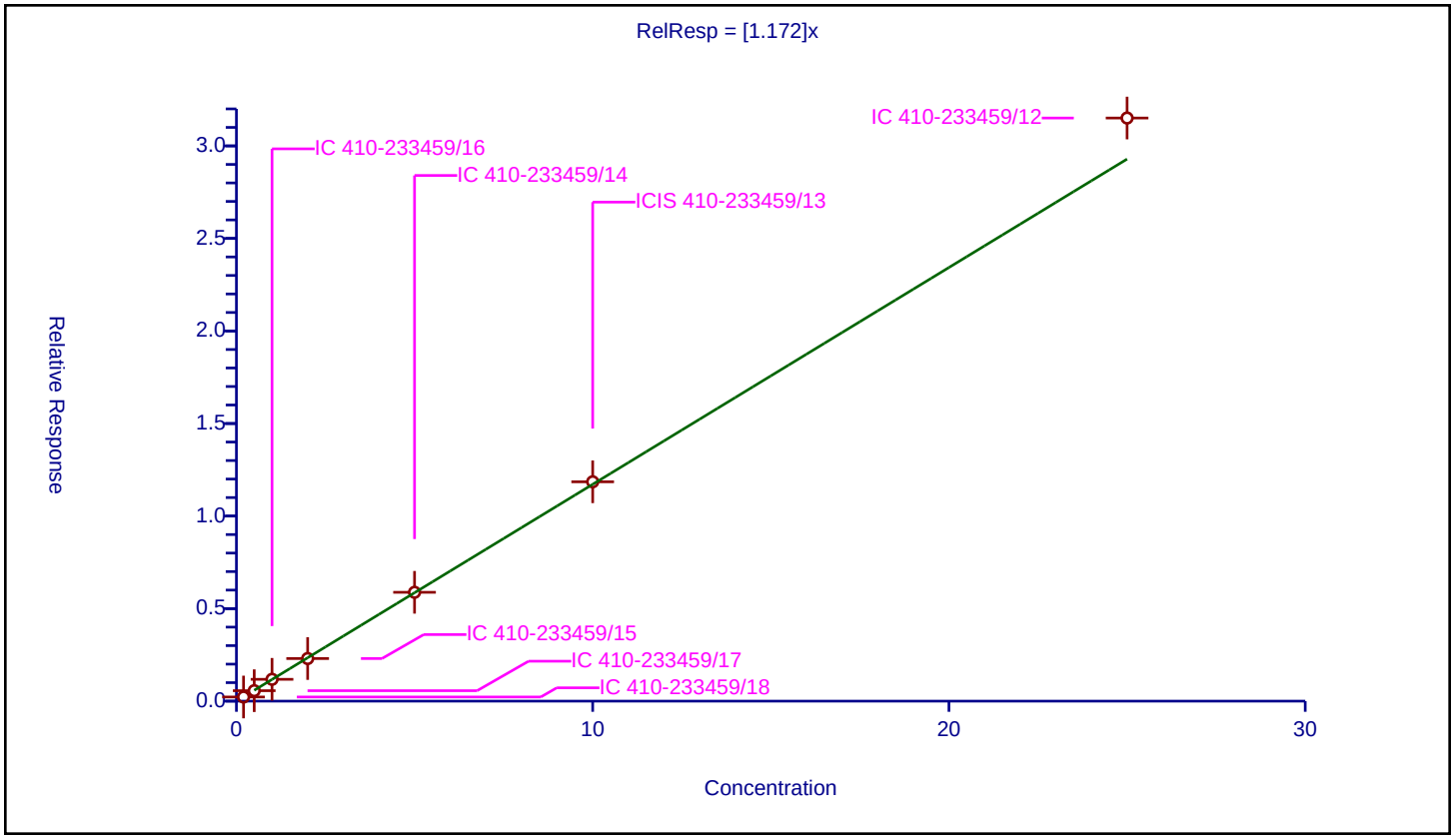
Curve Coefficients

Intercept:	0
Slope:	1.172

Error Coefficients

Standard Error:	2380000
Relative Standard Error:	4.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.223545	10.0	1678767.0	1.117725	Y
2	IC 410-233459/17	0.5	0.565229	10.0	1674650.0	1.130457	Y
3	IC 410-233459/16	1.0	1.179758	10.0	1674640.0	1.179758	Y
4	IC 410-233459/15	2.0	2.30249	10.0	1668976.0	1.151245	Y
5	IC 410-233459/14	5.0	5.880633	10.0	1684584.0	1.176127	Y
6	ICIS 410-233459/13	10.0	11.85161	10.0	1700909.0	1.185161	Y
7	IC 410-233459/12	25.0	31.506651	10.0	1697885.0	1.260266	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

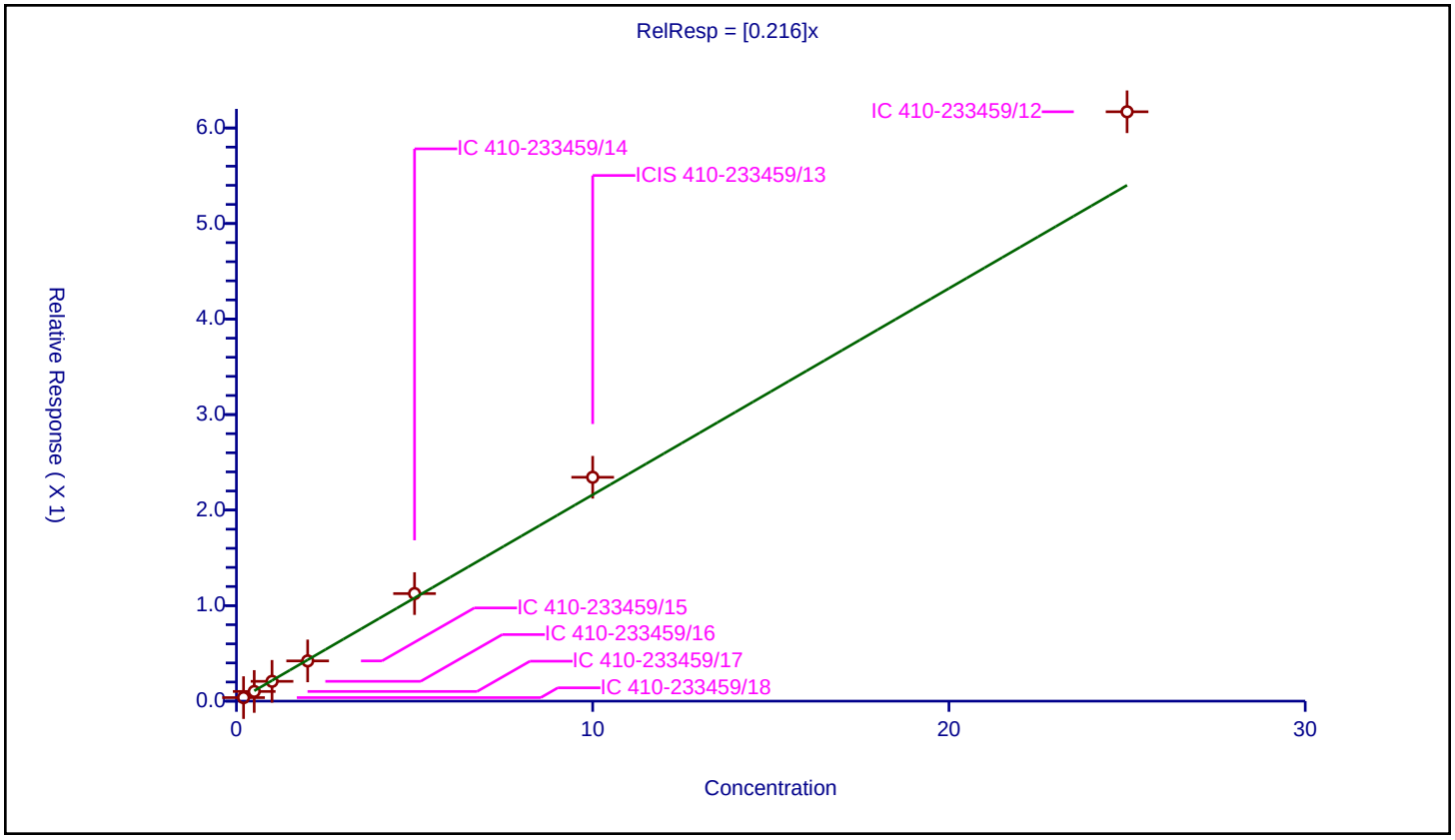
Curve Coefficients

Intercept:	0
Slope:	0.216

Error Coefficients

Standard Error:	465000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.037069	10.0	1678767.0	0.185344	Y
2	IC 410-233459/17	0.5	0.101281	10.0	1674650.0	0.202562	Y
3	IC 410-233459/16	1.0	0.2074	10.0	1674640.0	0.2074	Y
4	IC 410-233459/15	2.0	0.421276	10.0	1668976.0	0.210638	Y
5	IC 410-233459/14	5.0	1.126047	10.0	1684584.0	0.225209	Y
6	ICIS 410-233459/13	10.0	2.343547	10.0	1700909.0	0.234355	Y
7	IC 410-233459/12	25.0	6.169794	10.0	1697885.0	0.246792	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

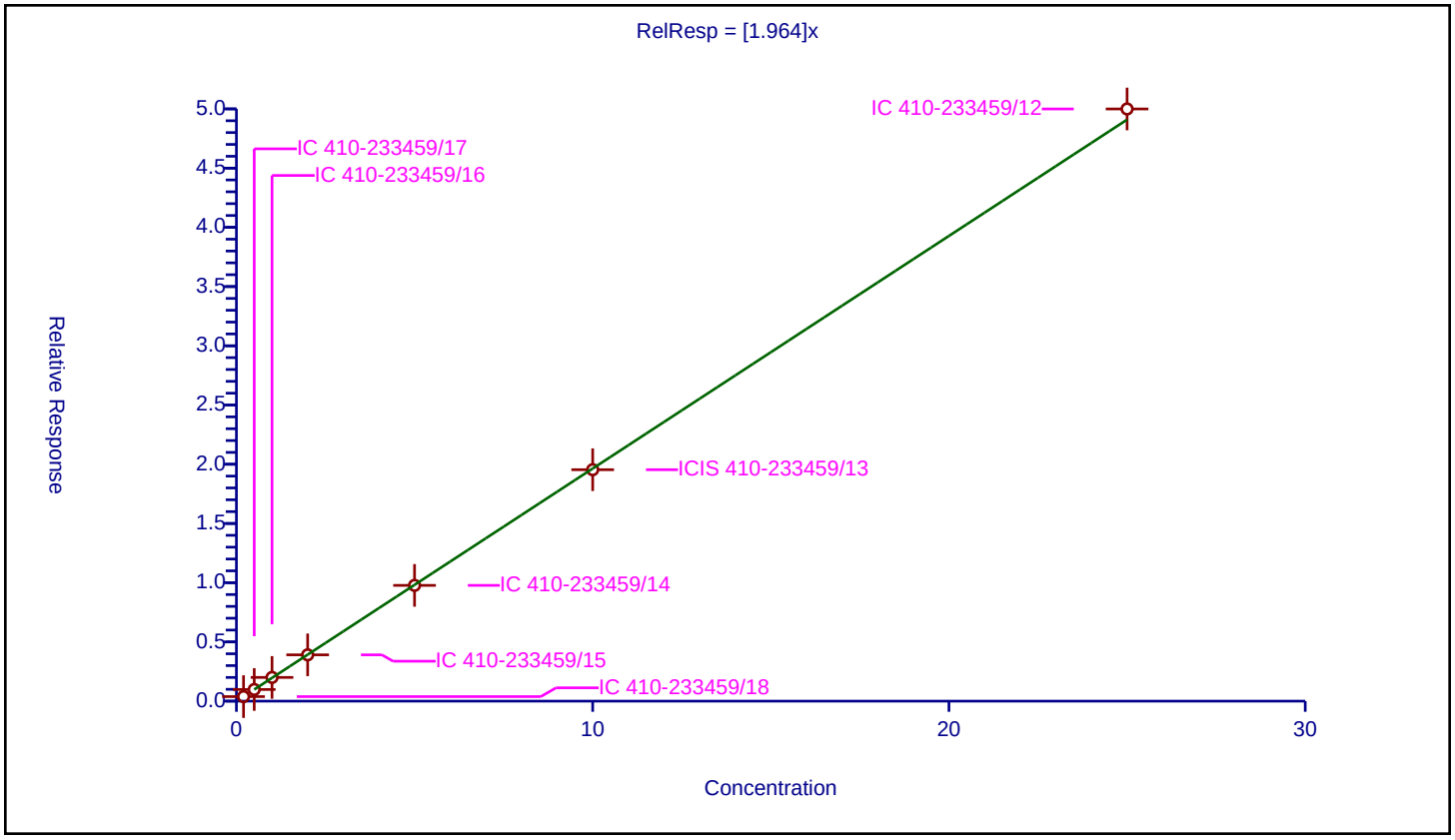
Curve Coefficients

Intercept:	0
Slope:	1.964

Error Coefficients

Standard Error:	3790000
Relative Standard Error:	1.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.382275	10.0	1678767.0	1.911373	Y
2	IC 410-233459/17	0.5	0.984743	10.0	1674650.0	1.969486	Y
3	IC 410-233459/16	1.0	2.002436	10.0	1674640.0	2.002436	Y
4	IC 410-233459/15	2.0	3.908229	10.0	1668976.0	1.954114	Y
5	IC 410-233459/14	5.0	9.773968	10.0	1684584.0	1.954794	Y
6	ICIS 410-233459/13	10.0	19.539781	10.0	1700909.0	1.953978	Y
7	IC 410-233459/12	25.0	49.99404	10.0	1697885.0	1.999762	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

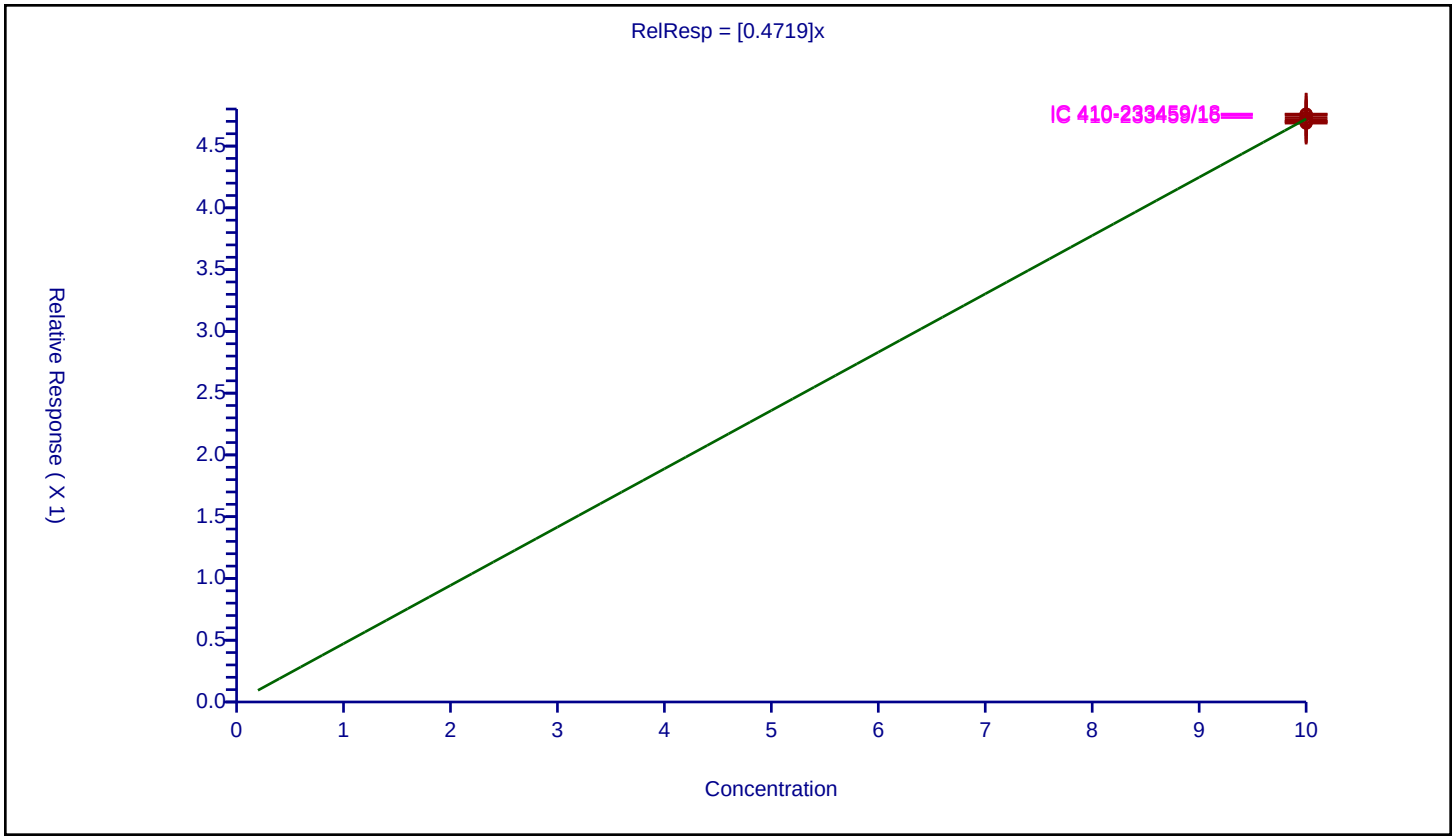
Curve Coefficients

Intercept:	0
Slope:	0.4719

Error Coefficients

Standard Error:	858000
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 410-233459/12	10.0	4.685818	10.0	1697885.0	0.468582	Y
2	ICIS 410-233459/13	10.0	4.695119	10.0	1700909.0	0.469512	Y
3	IC 410-233459/14	10.0	4.700241	10.0	1684584.0	0.470024	Y
4	IC 410-233459/15	10.0	4.754131	10.0	1668976.0	0.475413	Y
5	IC 410-233459/16	10.0	4.730874	10.0	1674640.0	0.473087	Y
6	IC 410-233459/17	10.0	4.710692	10.0	1674650.0	0.471069	Y
7	IC 410-233459/18	10.0	4.758749	10.0	1678767.0	0.475875	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

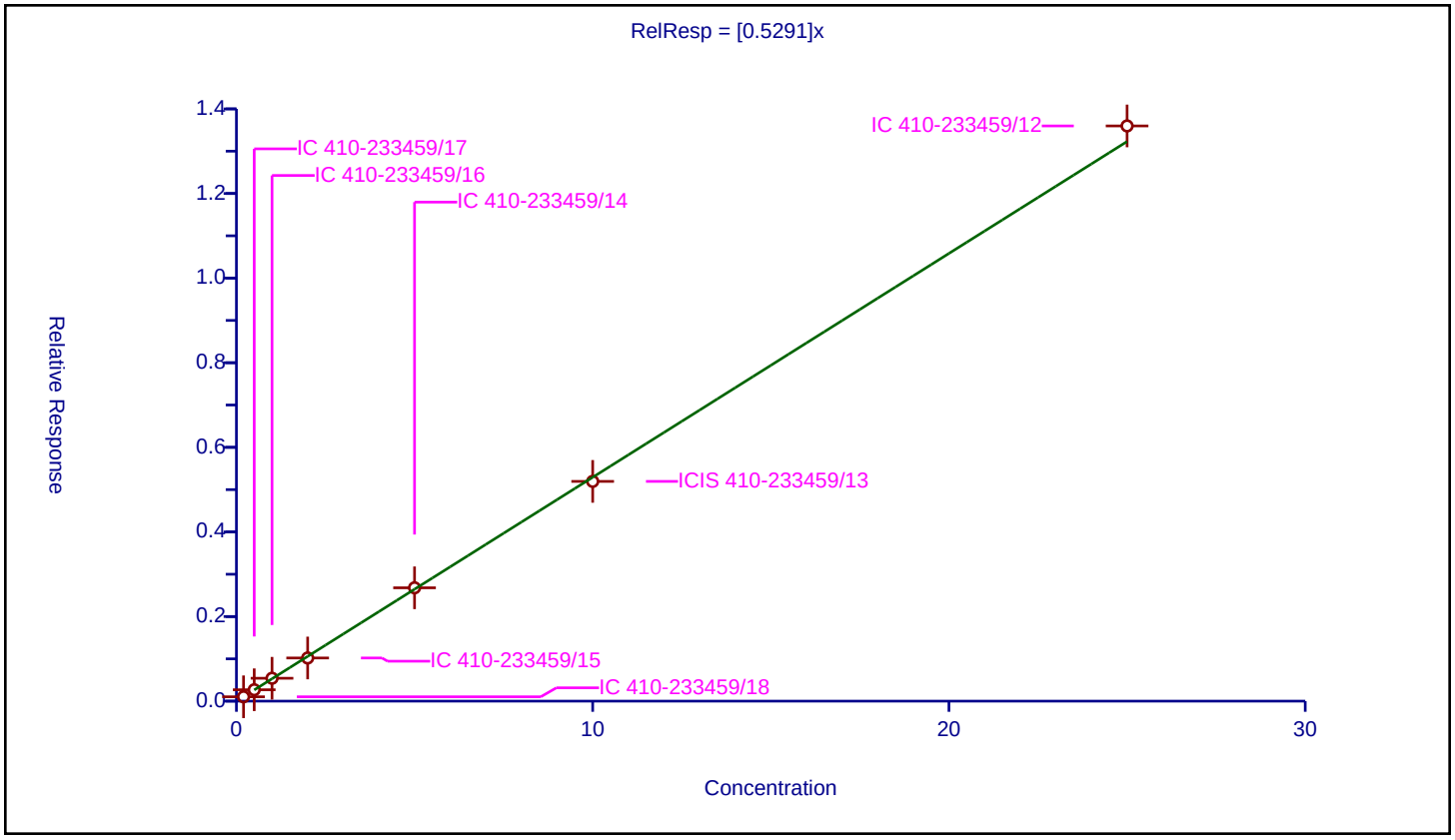
Curve Coefficients

Intercept:	0
Slope:	0.5291

Error Coefficients

Standard Error:	630000
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 410-233459/18	0.2	0.10299	10.0	1013693.0	0.514949	Y
2	IC 410-233459/17	0.5	0.269187	10.0	1007739.0	0.538374	Y
3	IC 410-233459/16	1.0	0.541341	10.0	1012300.0	0.541341	Y
4	IC 410-233459/15	2.0	1.020321	10.0	1013034.0	0.510161	Y
5	IC 410-233459/14	5.0	2.679421	10.0	1016421.0	0.535884	Y
6	ICIS 410-233459/13	10.0	5.194472	10.0	1049716.0	0.519447	Y
7	IC 410-233459/12	25.0	13.596908	10.0	1039276.0	0.543876	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

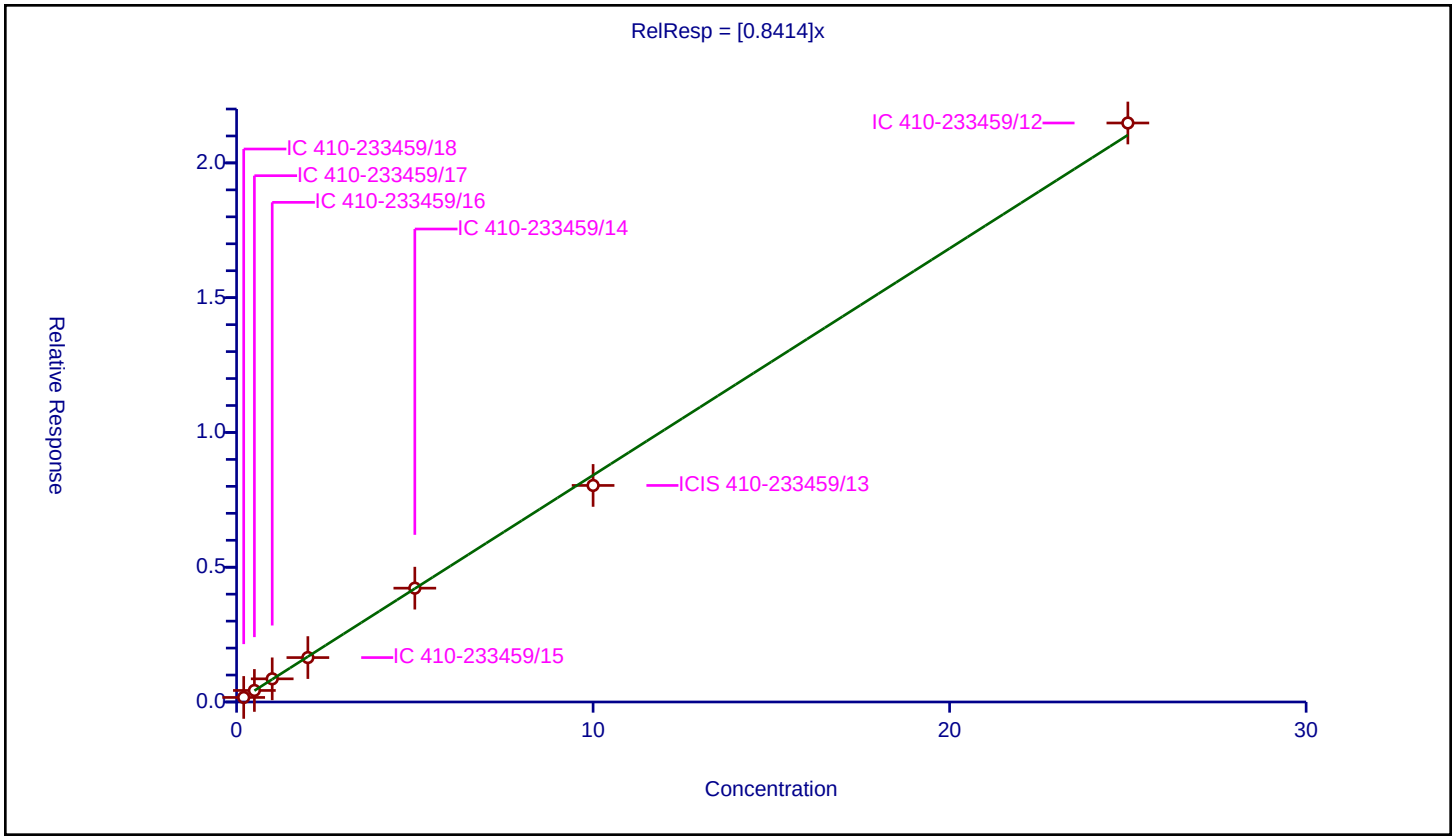
Curve Coefficients

Intercept:	0
Slope:	0.8414

Error Coefficients

Standard Error:	993000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.168473	10.0	1013693.0	0.842365	Y
2	IC 410-233459/17	0.5	0.428365	10.0	1007739.0	0.85673	Y
3	IC 410-233459/16	1.0	0.859646	10.0	1012300.0	0.859646	Y
4	IC 410-233459/15	2.0	1.647497	10.0	1013034.0	0.823748	Y
5	IC 410-233459/14	5.0	4.223211	10.0	1016421.0	0.844642	Y
6	ICIS 410-233459/13	10.0	8.034335	10.0	1049716.0	0.803434	Y
7	IC 410-233459/12	25.0	21.481272	10.0	1039276.0	0.859251	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

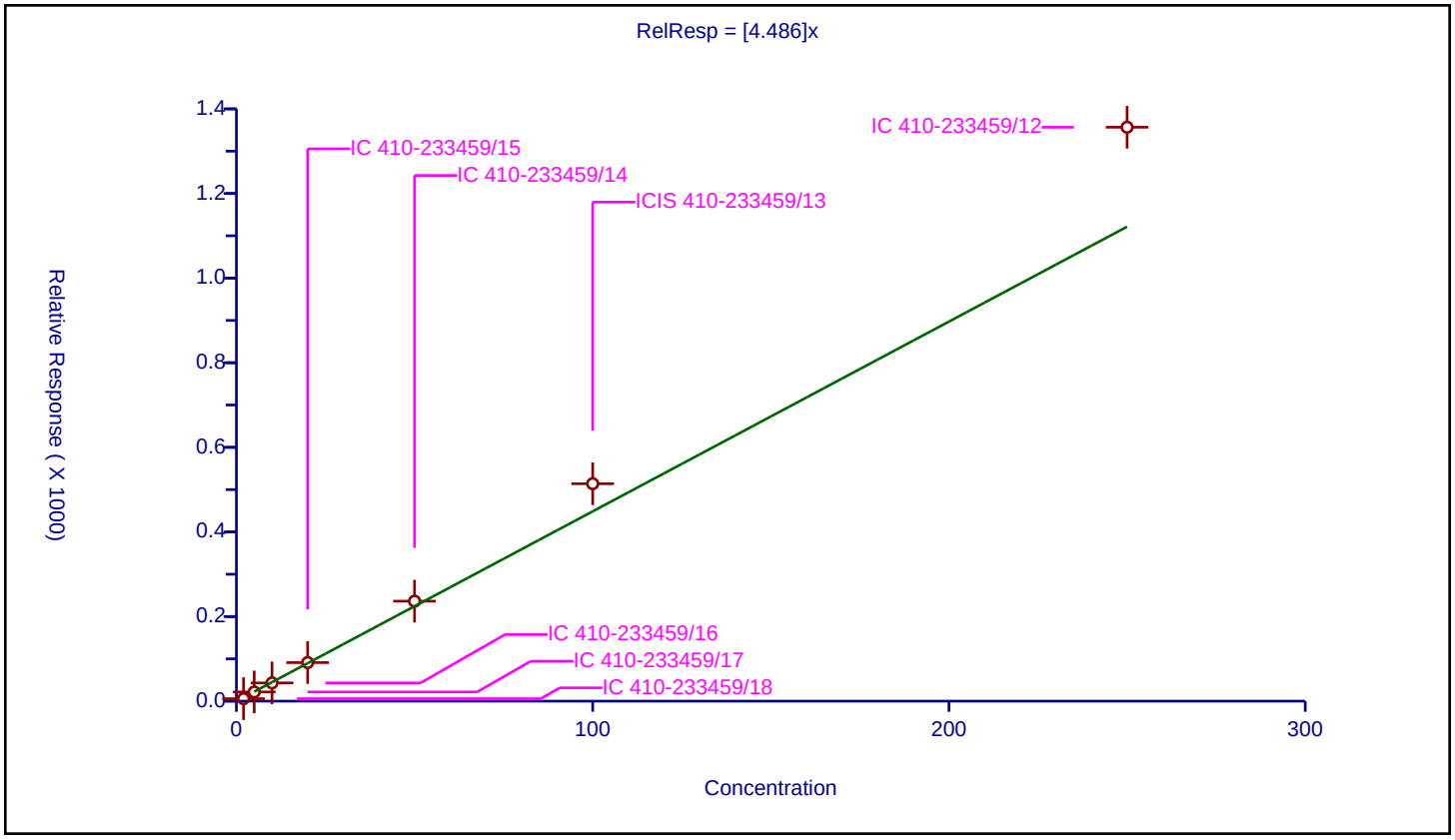
Curve Coefficients

Intercept:	0
Slope:	4.486

Error Coefficients

Standard Error:	1800000
Relative Standard Error:	18.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.965

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	2.0	5.822067	50.0	155632.0	2.911034	Y
2	IC 410-233459/17	5.0	21.65908	50.0	134454.0	4.331816	Y
3	IC 410-233459/16	10.0	43.067771	50.0	144059.0	4.306777	Y
4	IC 410-233459/15	20.0	91.15535	50.0	140927.0	4.557767	Y
5	IC 410-233459/14	50.0	236.328289	50.0	149941.0	4.726566	Y
6	ICIS 410-233459/13	100.0	513.977228	50.0	147286.0	5.139772	Y
7	IC 410-233459/12	250.0	1356.636407	50.0	150473.0	5.426546	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

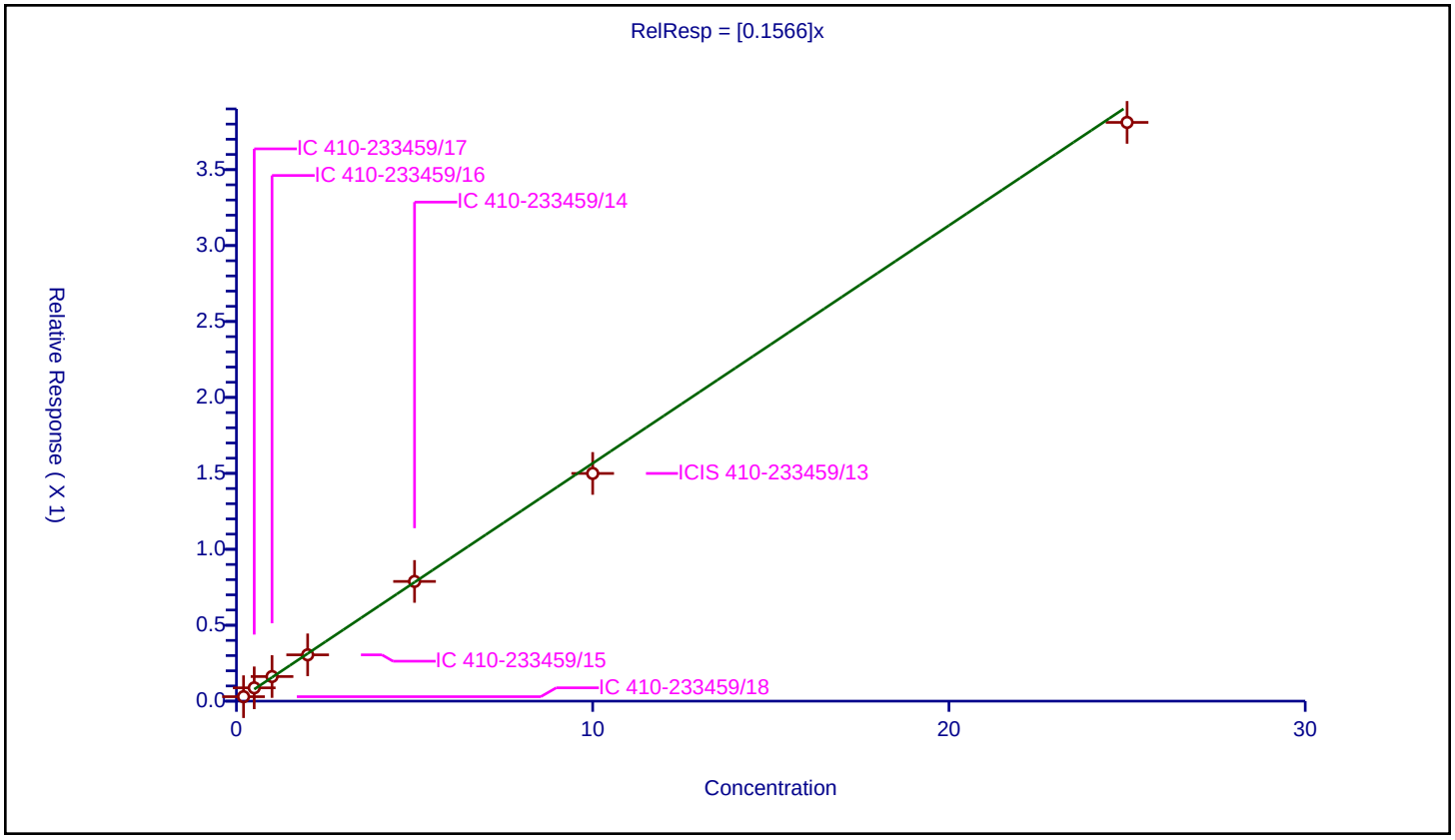
Curve Coefficients

Intercept:	0
Slope:	0.1566

Error Coefficients

Standard Error:	178000
Relative Standard Error:	6.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.029319	10.0	1013693.0	0.146593	Y
2	IC 410-233459/17	0.5	0.087632	10.0	1007739.0	0.175264	Y
3	IC 410-233459/16	1.0	0.161988	10.0	1012300.0	0.161988	Y
4	IC 410-233459/15	2.0	0.304896	10.0	1013034.0	0.152448	Y
5	IC 410-233459/14	5.0	0.788256	10.0	1016421.0	0.157651	Y
6	ICIS 410-233459/13	10.0	1.49952	10.0	1049716.0	0.149952	Y
7	IC 410-233459/12	25.0	3.811038	10.0	1039276.0	0.152442	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

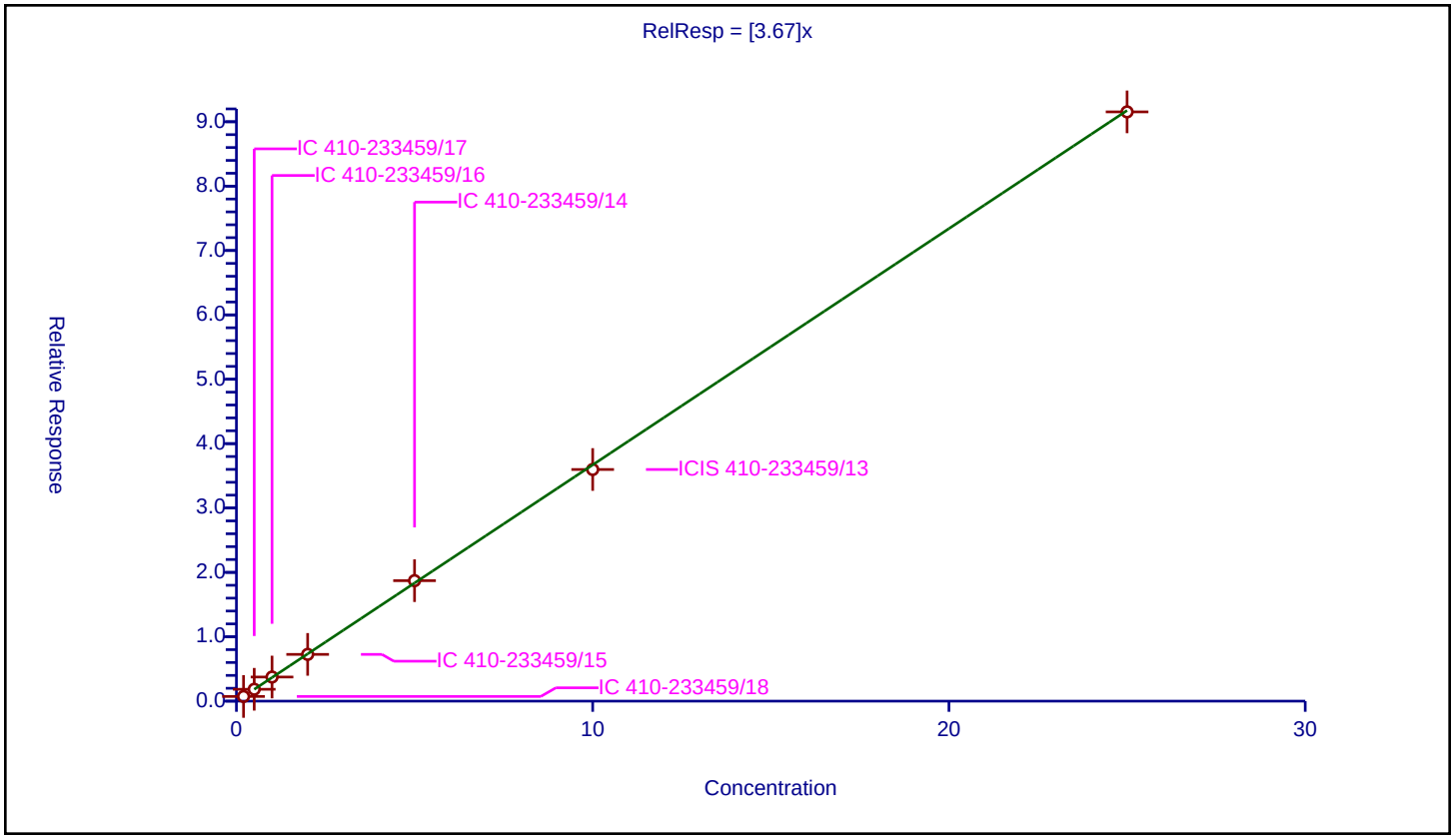
Curve Coefficients

Intercept:	0
Slope:	3.67

Error Coefficients

Standard Error:	4260000
Relative Standard Error:	1.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.724391	10.0	1013693.0	3.621955	Y
2	IC 410-233459/17	0.5	1.844396	10.0	1007739.0	3.688792	Y
3	IC 410-233459/16	1.0	3.746903	10.0	1012300.0	3.746903	Y
4	IC 410-233459/15	2.0	7.262076	10.0	1013034.0	3.631038	Y
5	IC 410-233459/14	5.0	18.715267	10.0	1016421.0	3.743053	Y
6	ICIS 410-233459/13	10.0	35.982418	10.0	1049716.0	3.598242	Y
7	IC 410-233459/12	25.0	91.53503	10.0	1039276.0	3.661401	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

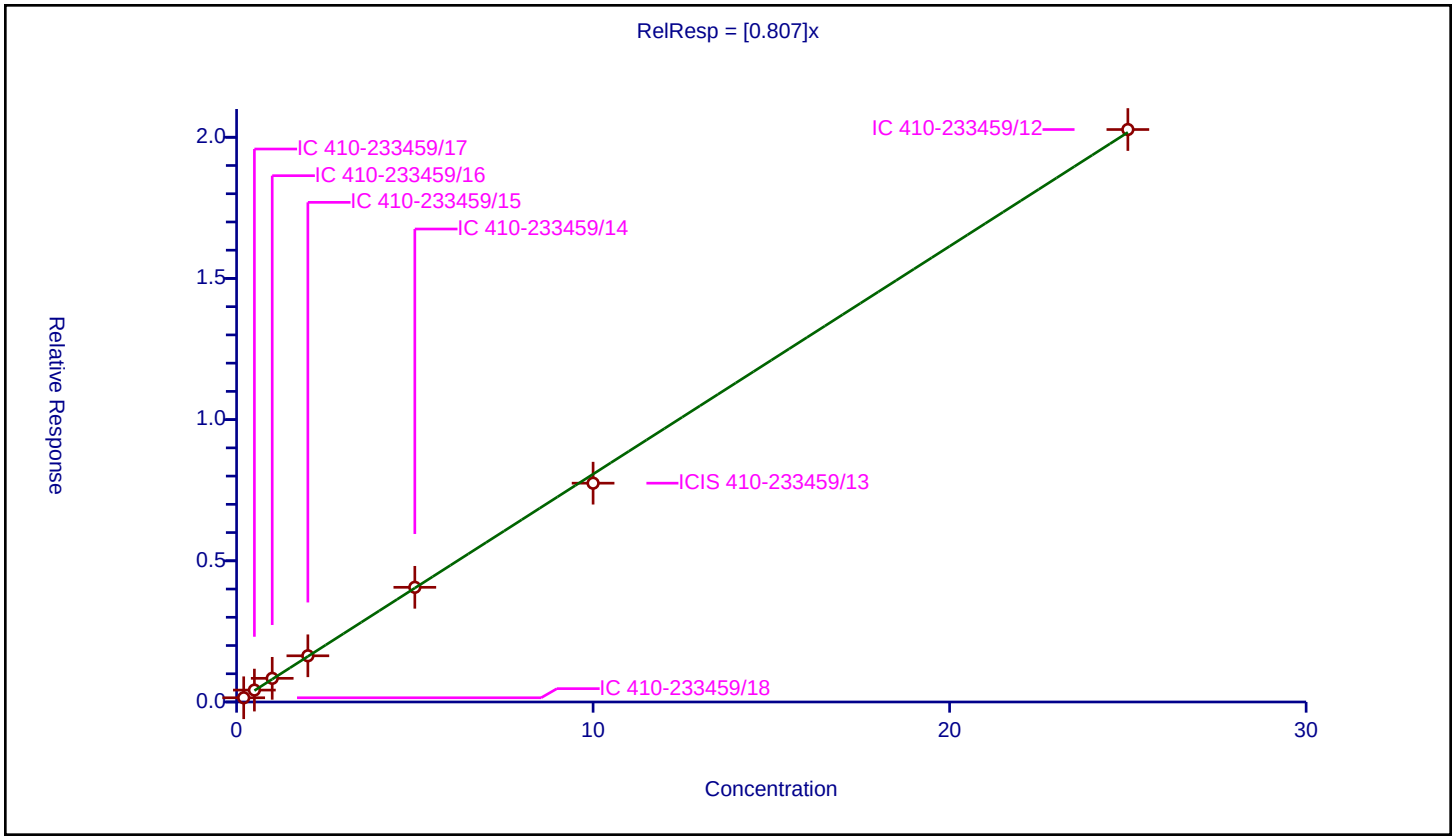
Curve Coefficients

Intercept:	0
Slope:	0.807

Error Coefficients

Standard Error:	941000
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 410-233459/18	0.2	0.150114	10.0	1013693.0	0.750572	Y
2	IC 410-233459/17	0.5	0.421974	10.0	1007739.0	0.843949	Y
3	IC 410-233459/16	1.0	0.837983	10.0	1012300.0	0.837983	Y
4	IC 410-233459/15	2.0	1.636056	10.0	1013034.0	0.818028	Y
5	IC 410-233459/14	5.0	4.061772	10.0	1016421.0	0.812354	Y
6	ICIS 410-233459/13	10.0	7.748905	10.0	1049716.0	0.774891	Y
7	IC 410-233459/12	25.0	20.273768	10.0	1039276.0	0.810951	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

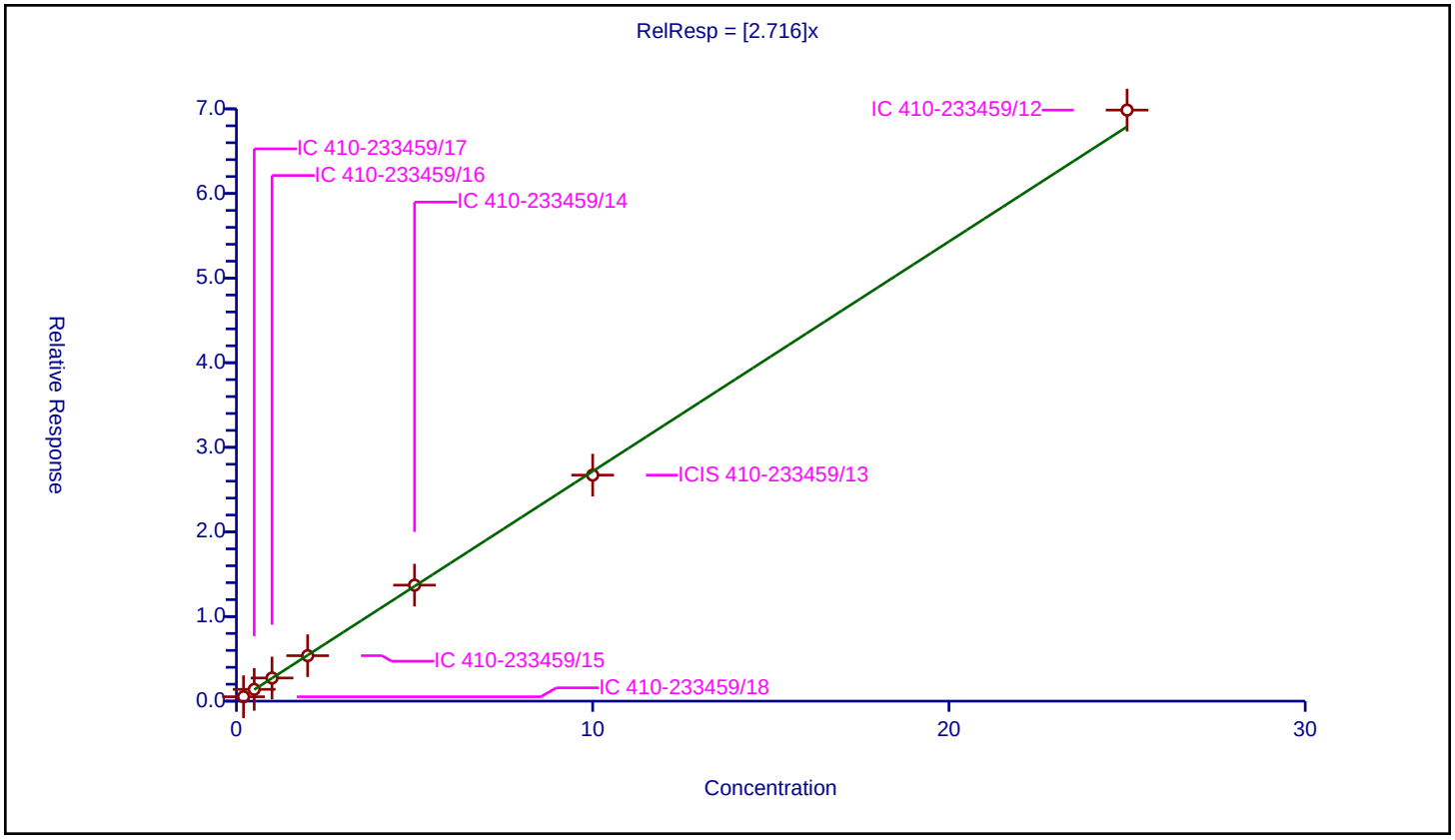
Curve Coefficients

Intercept:	0
Slope:	2.716

Error Coefficients

Standard Error:	3240000
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 410-233459/18	0.2	0.519003	10.0	1013693.0	2.595016	Y
2	IC 410-233459/17	0.5	1.392235	10.0	1007739.0	2.784471	Y
3	IC 410-233459/16	1.0	2.737874	10.0	1012300.0	2.737874	Y
4	IC 410-233459/15	2.0	5.372149	10.0	1013034.0	2.686075	Y
5	IC 410-233459/14	5.0	13.712133	10.0	1016421.0	2.742427	Y
6	ICIS 410-233459/13	10.0	26.716159	10.0	1049716.0	2.671616	Y
7	IC 410-233459/12	25.0	69.857988	10.0	1039276.0	2.79432	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

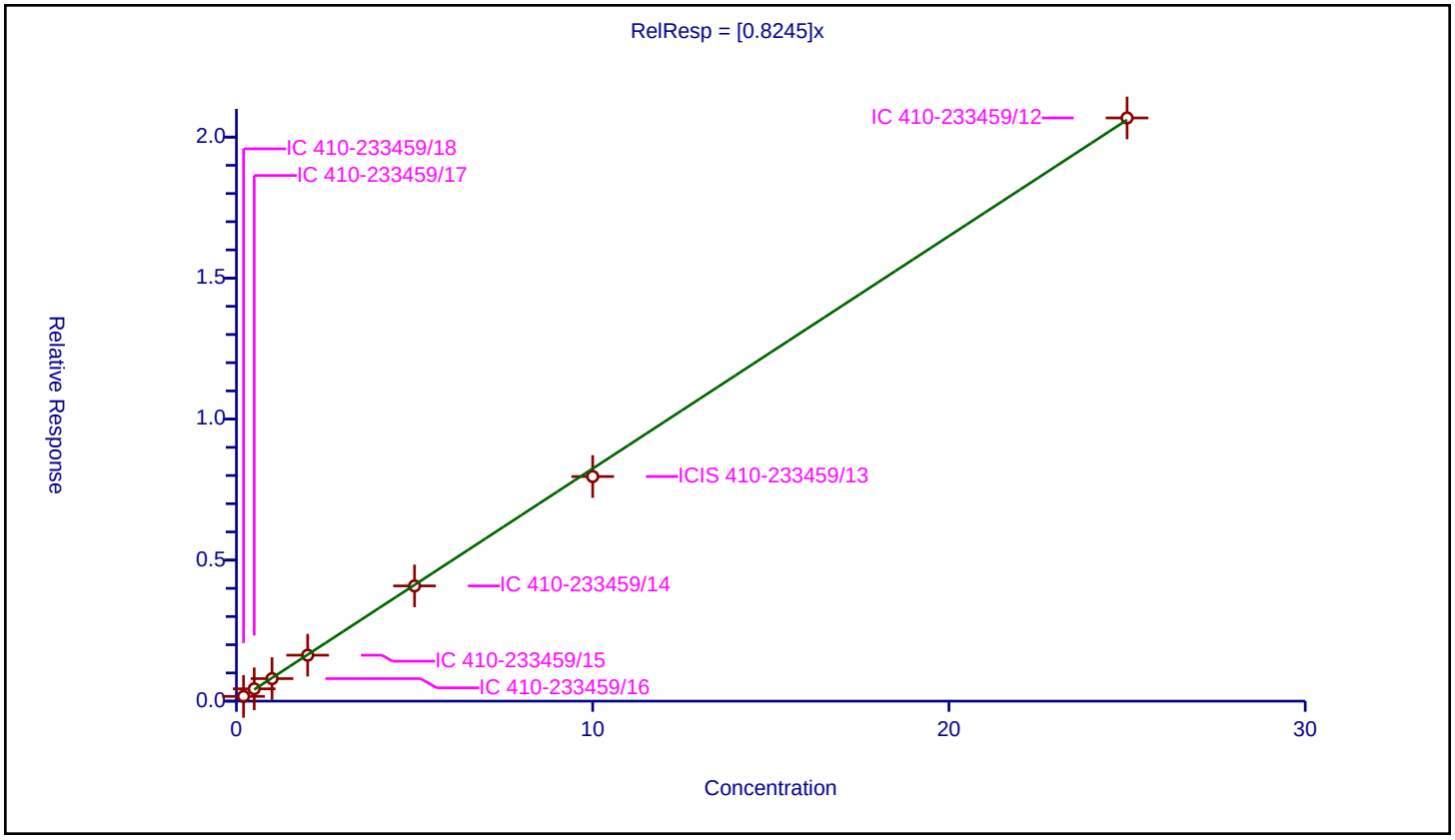
Curve Coefficients

Intercept:	0
Slope:	0.8245

Error Coefficients

Standard Error:	960000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.168769	10.0	1013693.0	0.843845	Y
2	IC 410-233459/17	0.5	0.436919	10.0	1007739.0	0.873837	Y
3	IC 410-233459/16	1.0	0.798459	10.0	1012300.0	0.798459	Y
4	IC 410-233459/15	2.0	1.629314	10.0	1013034.0	0.814657	Y
5	IC 410-233459/14	5.0	4.086014	10.0	1016421.0	0.817203	Y
6	ICIS 410-233459/13	10.0	7.964859	10.0	1049716.0	0.796486	Y
7	IC 410-233459/12	25.0	20.679165	10.0	1039276.0	0.827167	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

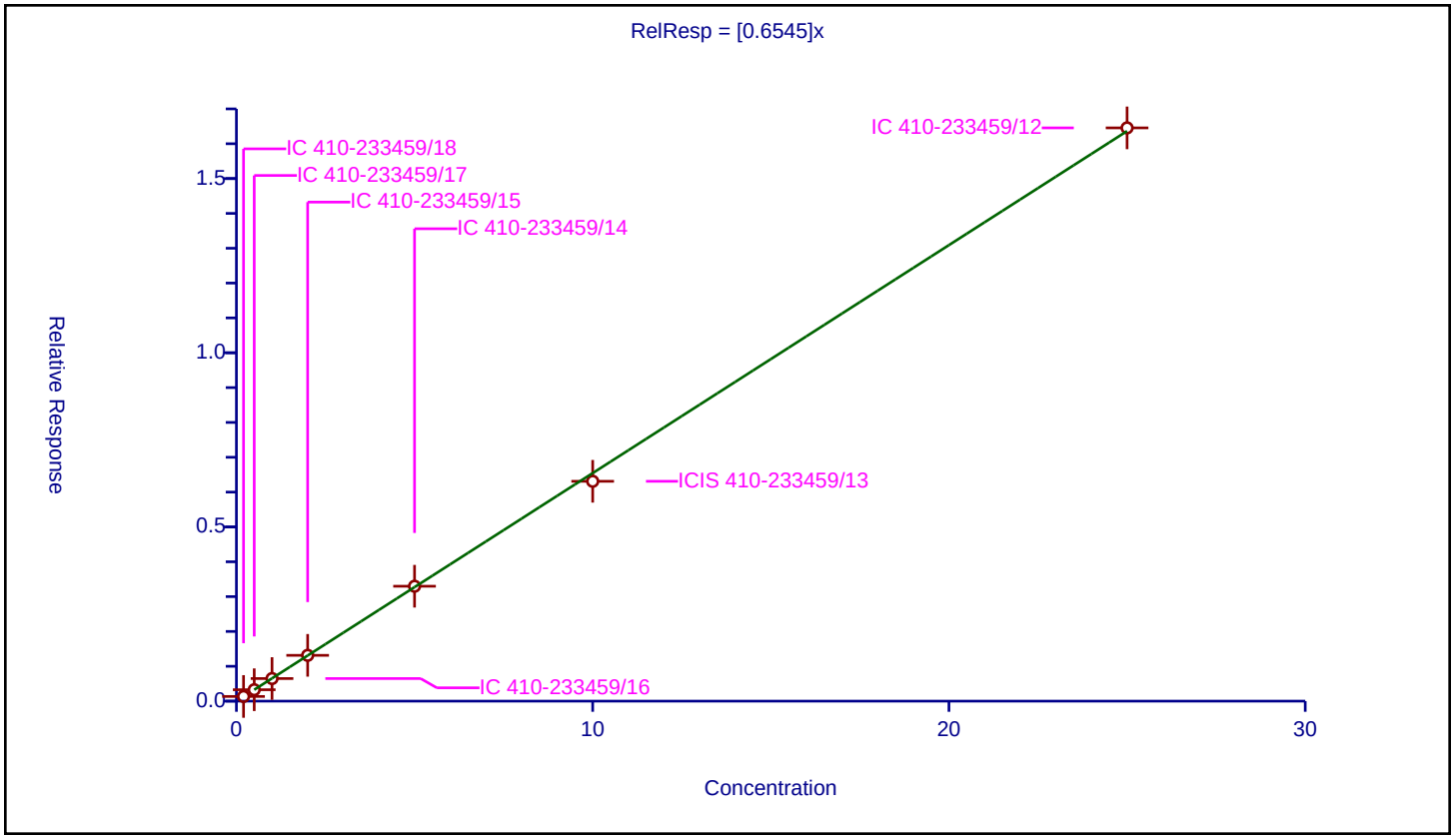
Curve Coefficients

Intercept:	0
Slope:	0.6545

Error Coefficients

Standard Error:	764000
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.134321	10.0	1013693.0	0.671604	Y
2	IC 410-233459/17	0.5	0.327357	10.0	1007739.0	0.654713	Y
3	IC 410-233459/16	1.0	0.648908	10.0	1012300.0	0.648908	Y
4	IC 410-233459/15	2.0	1.314813	10.0	1013034.0	0.657406	Y
5	IC 410-233459/14	5.0	3.298427	10.0	1016421.0	0.659685	Y
6	ICIS 410-233459/13	10.0	6.310583	10.0	1049716.0	0.631058	Y
7	IC 410-233459/12	25.0	16.455253	10.0	1039276.0	0.65821	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

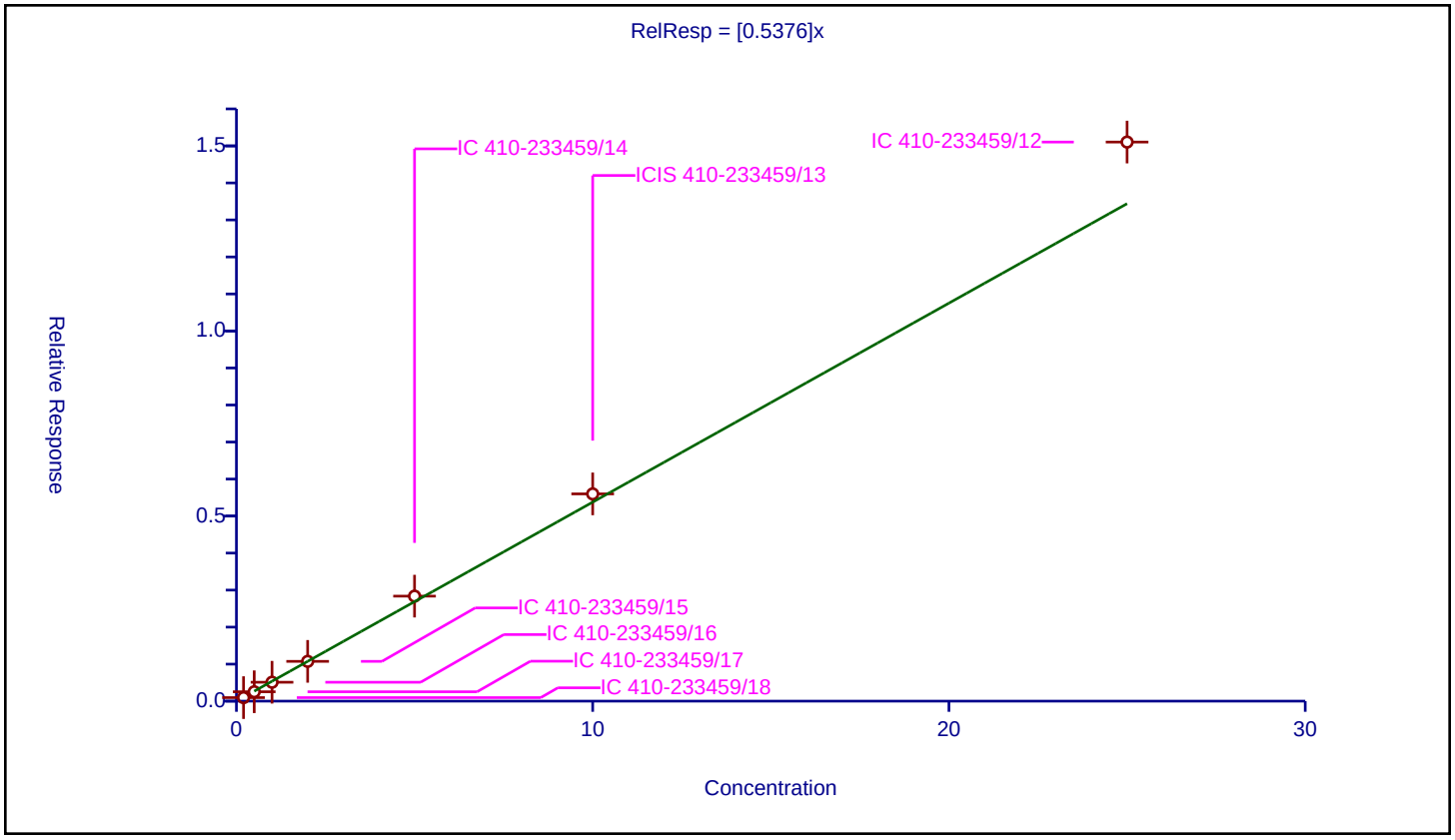
Curve Coefficients

Intercept:	0
Slope:	0.5376

Error Coefficients

Standard Error:	696000
Relative Standard Error:	8.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.095216	10.0	1013693.0	0.476081	Y
2	IC 410-233459/17	0.5	0.253935	10.0	1007739.0	0.50787	Y
3	IC 410-233459/16	1.0	0.510481	10.0	1012300.0	0.510481	Y
4	IC 410-233459/15	2.0	1.07488	10.0	1013034.0	0.53744	Y
5	IC 410-233459/14	5.0	2.836748	10.0	1016421.0	0.56735	Y
6	ICIS 410-233459/13	10.0	5.598819	10.0	1049716.0	0.559882	Y
7	IC 410-233459/12	25.0	15.104024	10.0	1039276.0	0.604161	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

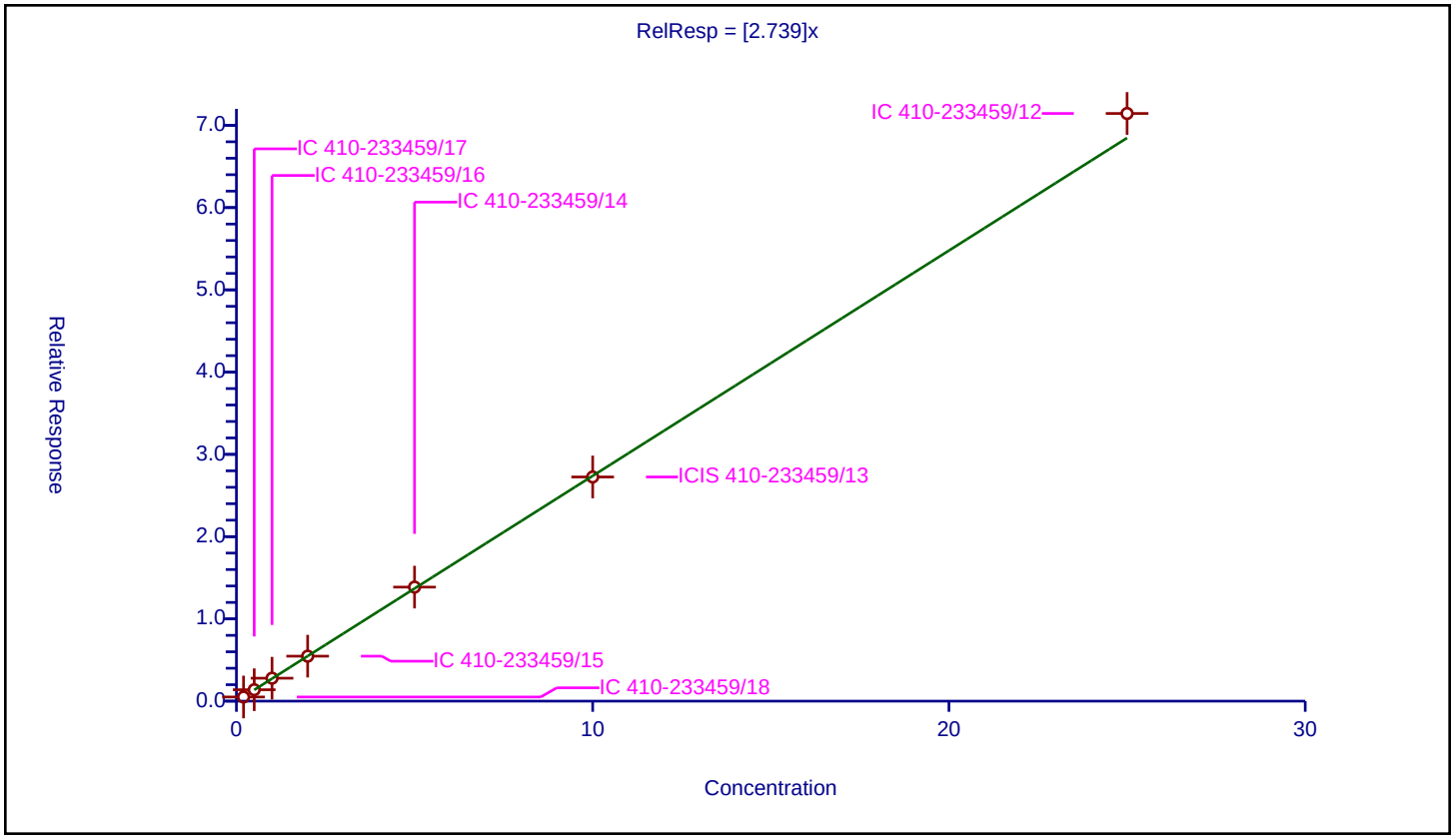
Curve Coefficients

Intercept:	0
Slope:	2.739

Error Coefficients

Standard Error:	3310000
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 410-233459/18	0.2	0.504453	10.0	1013693.0	2.522263	Y
2	IC 410-233459/17	0.5	1.386004	10.0	1007739.0	2.772007	Y
3	IC 410-233459/16	1.0	2.788215	10.0	1012300.0	2.788215	Y
4	IC 410-233459/15	2.0	5.467408	10.0	1013034.0	2.733704	Y
5	IC 410-233459/14	5.0	13.864658	10.0	1016421.0	2.772932	Y
6	ICIS 410-233459/13	10.0	27.252914	10.0	1049716.0	2.725291	Y
7	IC 410-233459/12	25.0	71.44184	10.0	1039276.0	2.857674	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

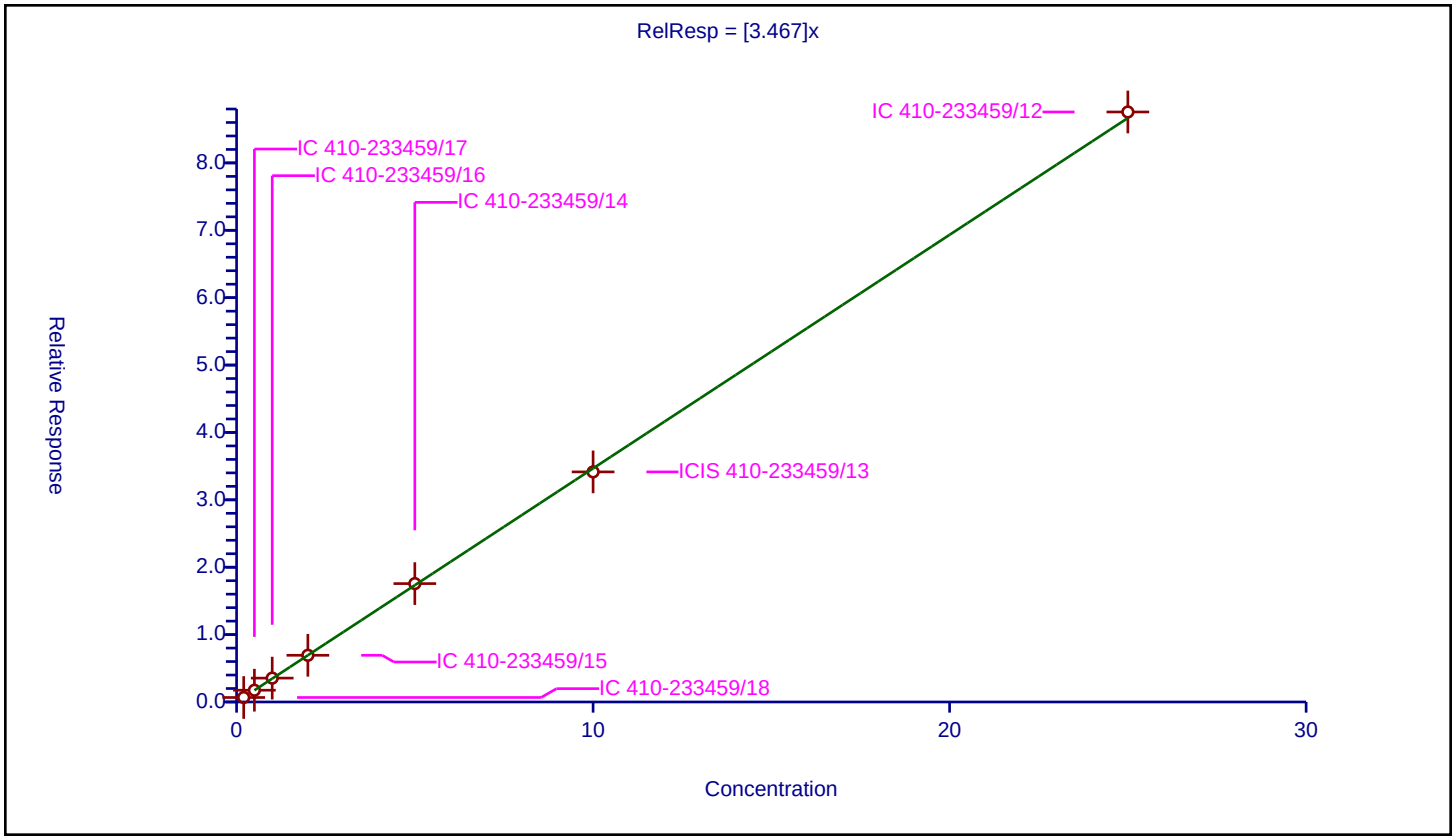
Curve Coefficients

Intercept:	0
Slope:	3.467

Error Coefficients

Standard Error:	4070000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.667352	10.0	1013693.0	3.33676	Y
2	IC 410-233459/17	0.5	1.745224	10.0	1007739.0	3.490447	Y
3	IC 410-233459/16	1.0	3.543515	10.0	1012300.0	3.543515	Y
4	IC 410-233459/15	2.0	6.931149	10.0	1013034.0	3.465575	Y
5	IC 410-233459/14	5.0	17.569265	10.0	1016421.0	3.513853	Y
6	ICIS 410-233459/13	10.0	34.145521	10.0	1049716.0	3.414552	Y
7	IC 410-233459/12	25.0	87.559185	10.0	1039276.0	3.502367	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

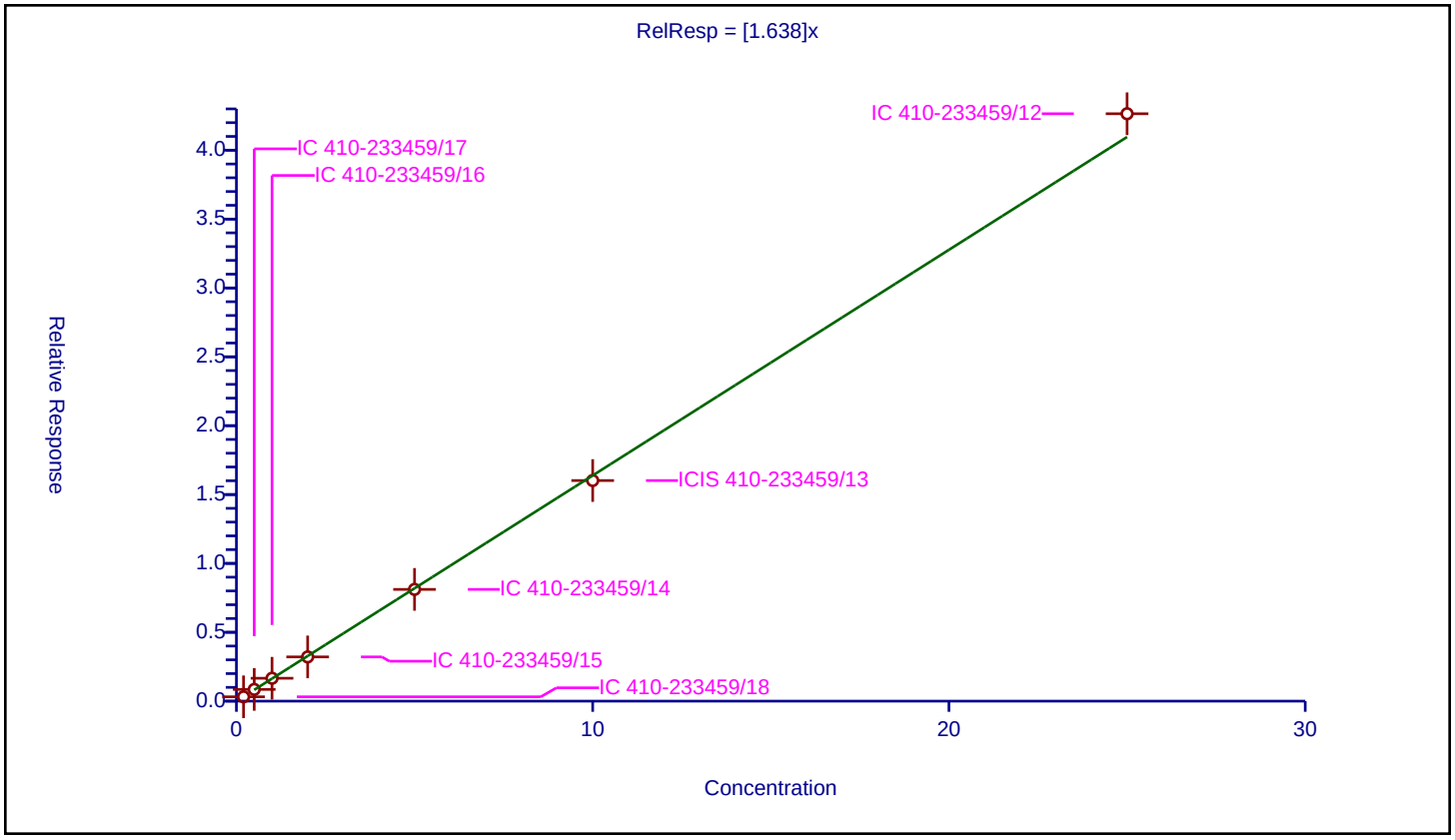
Curve Coefficients

Intercept:	0
Slope:	1.638

Error Coefficients

Standard Error:	1970000
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 410-233459/18	0.2	0.313724	10.0	1013693.0	1.568621	Y
2	IC 410-233459/17	0.5	0.851659	10.0	1007739.0	1.703318	Y
3	IC 410-233459/16	1.0	1.661257	10.0	1012300.0	1.661257	Y
4	IC 410-233459/15	2.0	3.210929	10.0	1013034.0	1.605464	Y
5	IC 410-233459/14	5.0	8.112711	10.0	1016421.0	1.622542	Y
6	ICIS 410-233459/13	10.0	16.016923	10.0	1049716.0	1.601692	Y
7	IC 410-233459/12	25.0	42.647102	10.0	1039276.0	1.705884	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

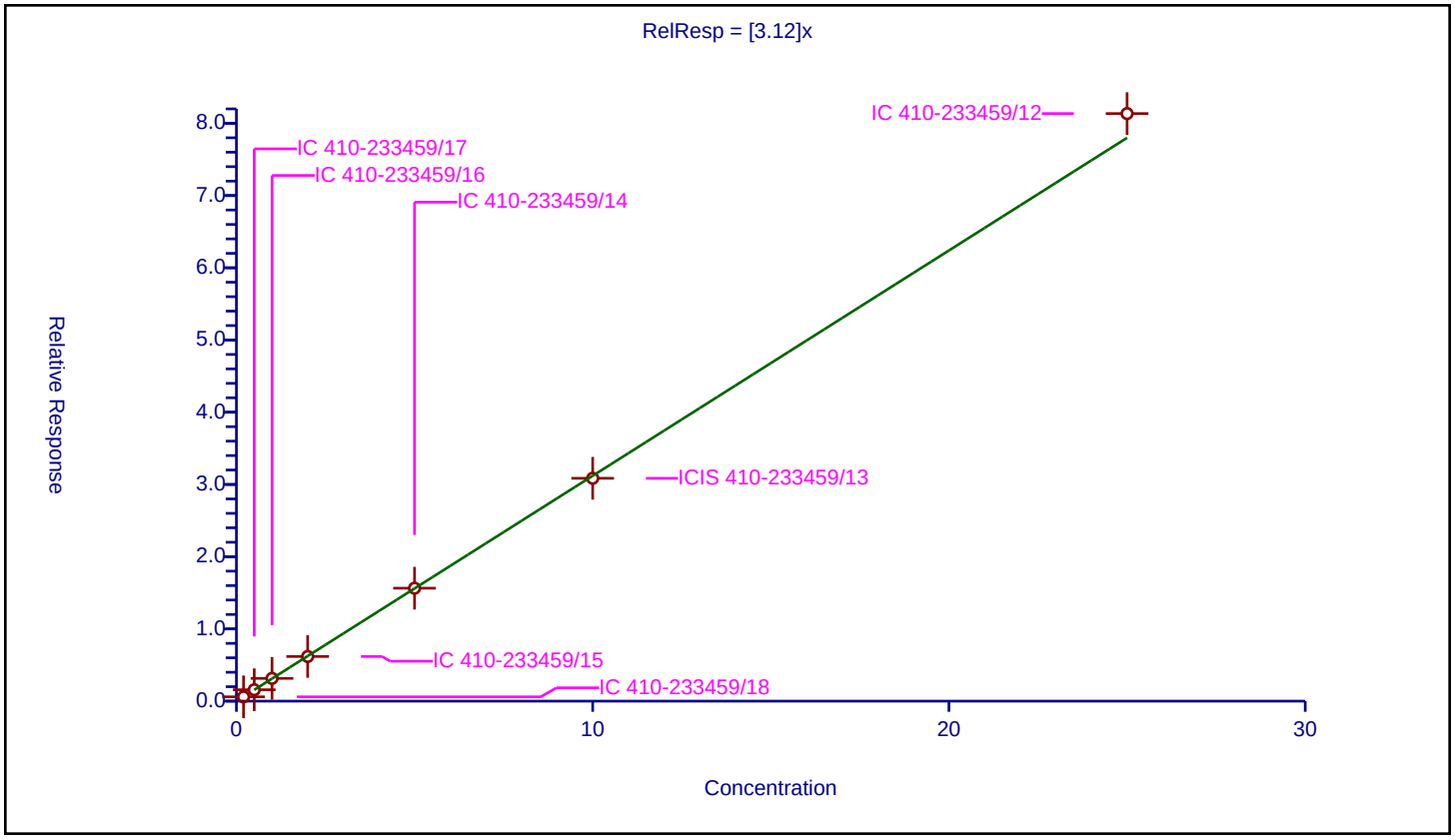
Curve Coefficients

Intercept:	0
Slope:	3.12

Error Coefficients

Standard Error:	3760000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.594164	10.0	1013693.0	2.970821	Y
2	IC 410-233459/17	0.5	1.578216	10.0	1007739.0	3.156432	Y
3	IC 410-233459/16	1.0	3.152307	10.0	1012300.0	3.152307	Y
4	IC 410-233459/15	2.0	6.18382	10.0	1013034.0	3.09191	Y
5	IC 410-233459/14	5.0	15.638402	10.0	1016421.0	3.12768	Y
6	ICIS 410-233459/13	10.0	30.857279	10.0	1049716.0	3.085728	Y
7	IC 410-233459/12	25.0	81.349882	10.0	1039276.0	3.253995	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

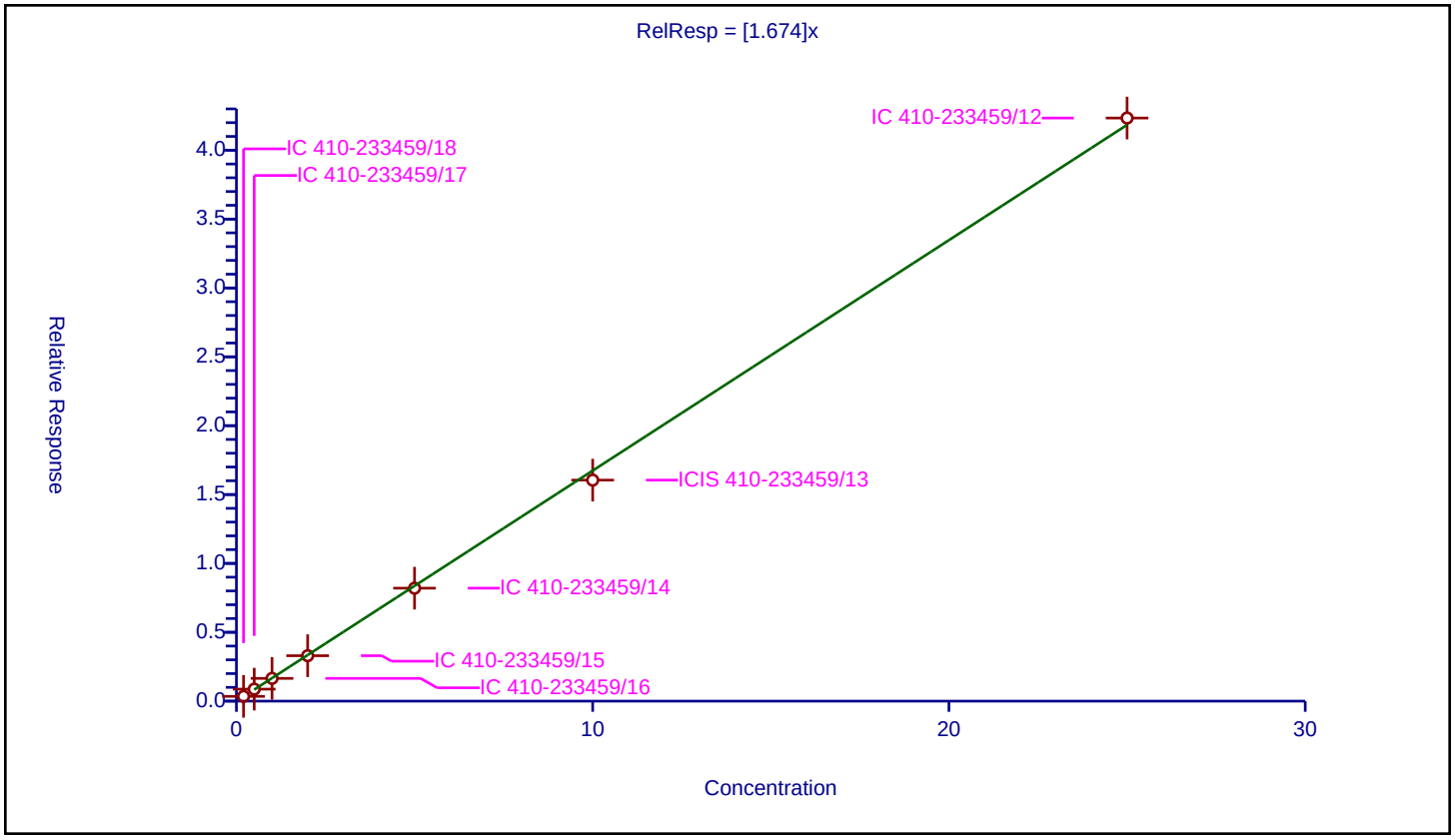
Curve Coefficients

Intercept:	0
Slope:	1.674

Error Coefficients

Standard Error:	1960000
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 410-233459/18	0.2	0.346209	10.0	1013693.0	1.731047	Y
2	IC 410-233459/17	0.5	0.871287	10.0	1007739.0	1.742574	Y
3	IC 410-233459/16	1.0	1.653057	10.0	1012300.0	1.653057	Y
4	IC 410-233459/15	2.0	3.298912	10.0	1013034.0	1.649456	Y
5	IC 410-233459/14	5.0	8.201729	10.0	1016421.0	1.640346	Y
6	ICIS 410-233459/13	10.0	16.047941	10.0	1049716.0	1.604794	Y
7	IC 410-233459/12	25.0	42.337185	10.0	1039276.0	1.693487	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

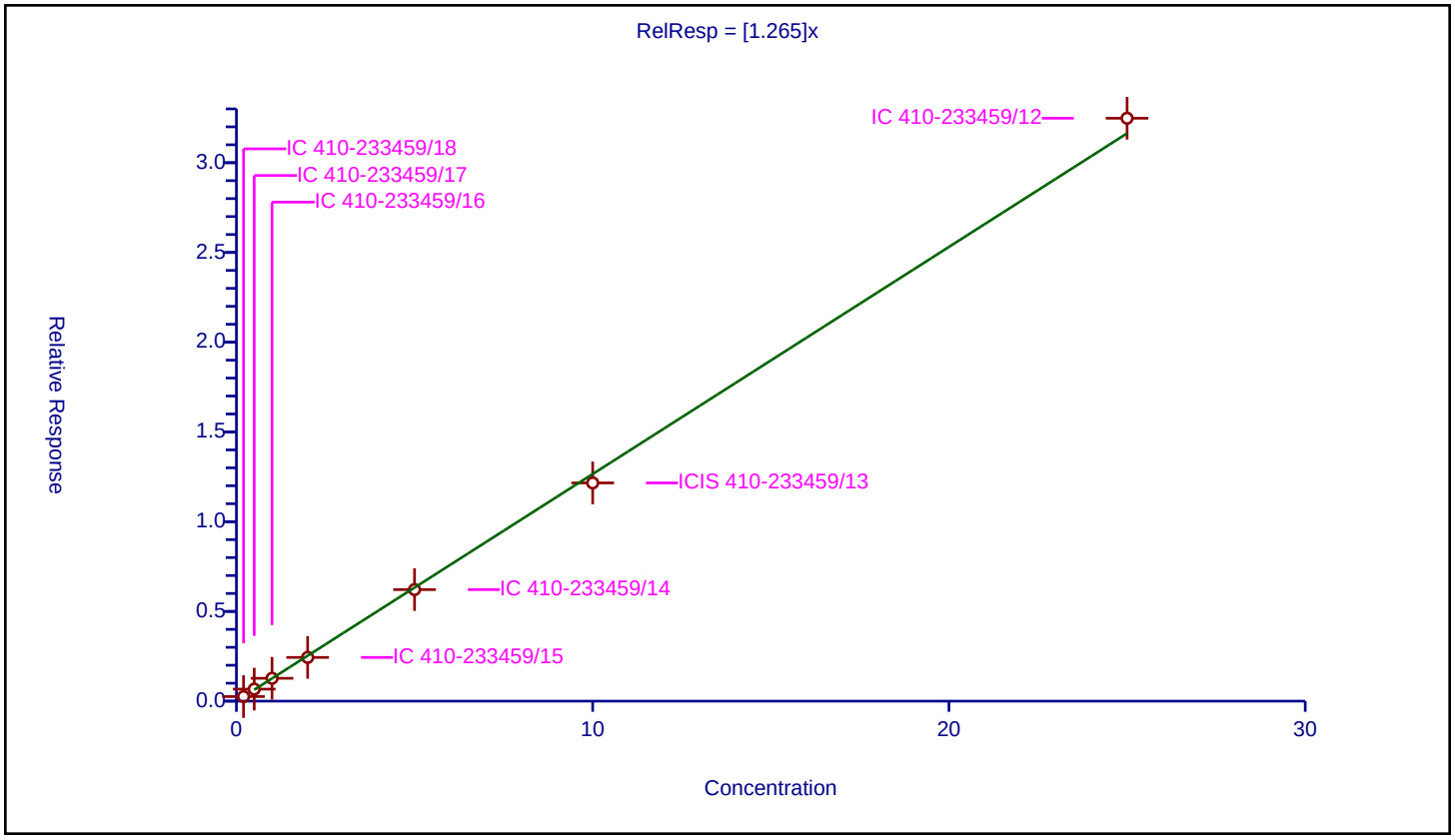
Curve Coefficients

Intercept:	0
Slope:	1.265

Error Coefficients

Standard Error:	1500000
Relative Standard Error:	3.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.253775	10.0	1013693.0	1.268875	Y
2	IC 410-233459/17	0.5	0.669658	10.0	1007739.0	1.339315	Y
3	IC 410-233459/16	1.0	1.27396	10.0	1012300.0	1.27396	Y
4	IC 410-233459/15	2.0	2.435782	10.0	1013034.0	1.217891	Y
5	IC 410-233459/14	5.0	6.215171	10.0	1016421.0	1.243034	Y
6	ICIS 410-233459/13	10.0	12.159603	10.0	1049716.0	1.21596	Y
7	IC 410-233459/12	25.0	32.47913	10.0	1039276.0	1.299165	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

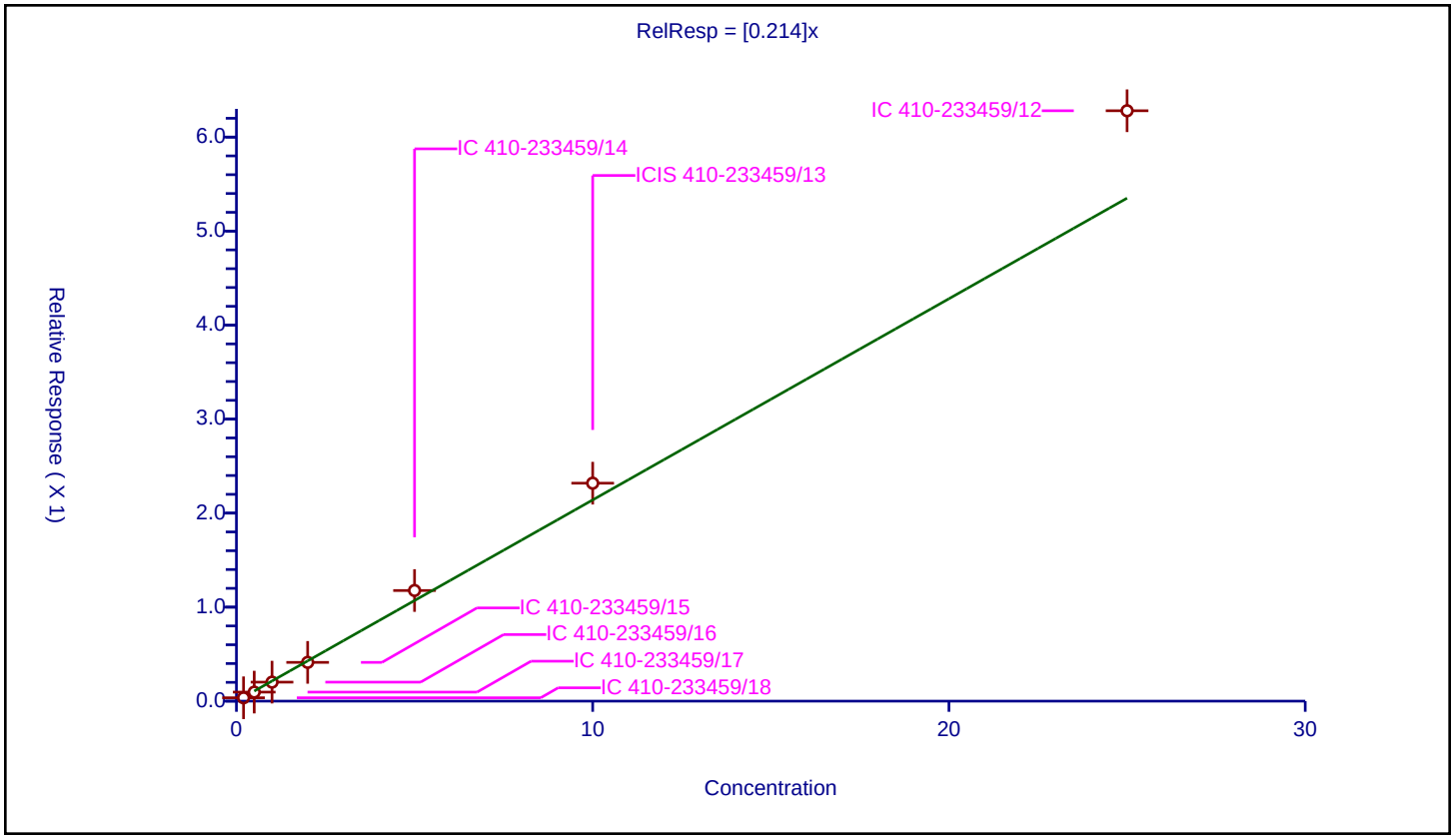
Curve Coefficients

Intercept:	0
Slope:	0.214

Error Coefficients

Standard Error:	289000
Relative Standard Error:	12.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.03578	10.0	1013693.0	0.1789	Y
2	IC 410-233459/17	0.5	0.096255	10.0	1007739.0	0.19251	Y
3	IC 410-233459/16	1.0	0.202213	10.0	1012300.0	0.202213	Y
4	IC 410-233459/15	2.0	0.412276	10.0	1013034.0	0.206138	Y
5	IC 410-233459/14	5.0	1.176825	10.0	1016421.0	0.235365	Y
6	ICIS 410-233459/13	10.0	2.318541	10.0	1049716.0	0.231854	Y
7	IC 410-233459/12	25.0	6.280103	10.0	1039276.0	0.251204	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

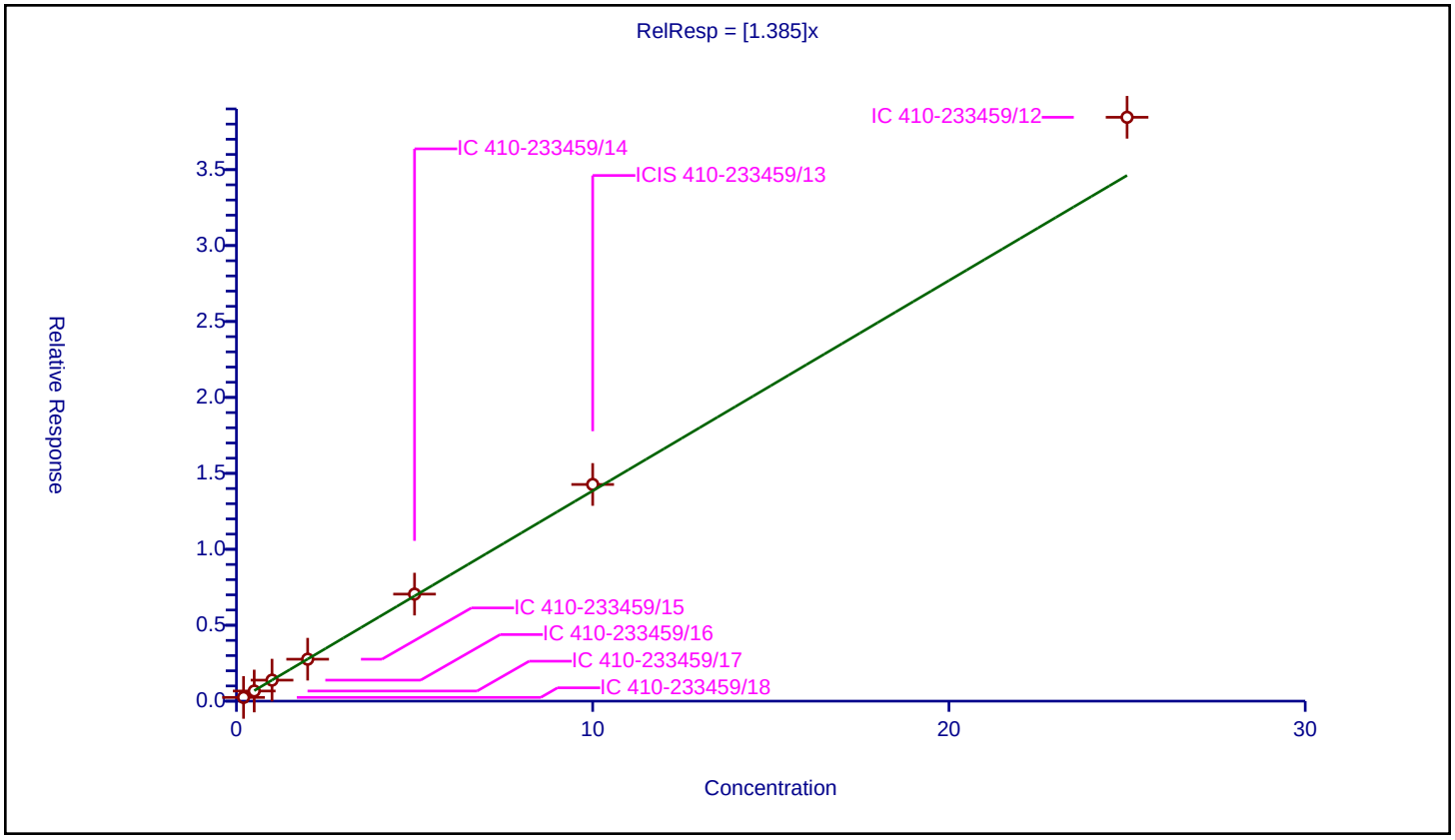
Curve Coefficients

Intercept:	0
Slope:	1.385

Error Coefficients

Standard Error:	1770000
Relative Standard Error:	6.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.244315	10.0	1013693.0	1.221573	Y
2	IC 410-233459/17	0.5	0.667445	10.0	1007739.0	1.334889	Y
3	IC 410-233459/16	1.0	1.382199	10.0	1012300.0	1.382199	Y
4	IC 410-233459/15	2.0	2.761576	10.0	1013034.0	1.380788	Y
5	IC 410-233459/14	5.0	7.048034	10.0	1016421.0	1.409607	Y
6	ICIS 410-233459/13	10.0	14.268202	10.0	1049716.0	1.42682	Y
7	IC 410-233459/12	25.0	38.447381	10.0	1039276.0	1.537895	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

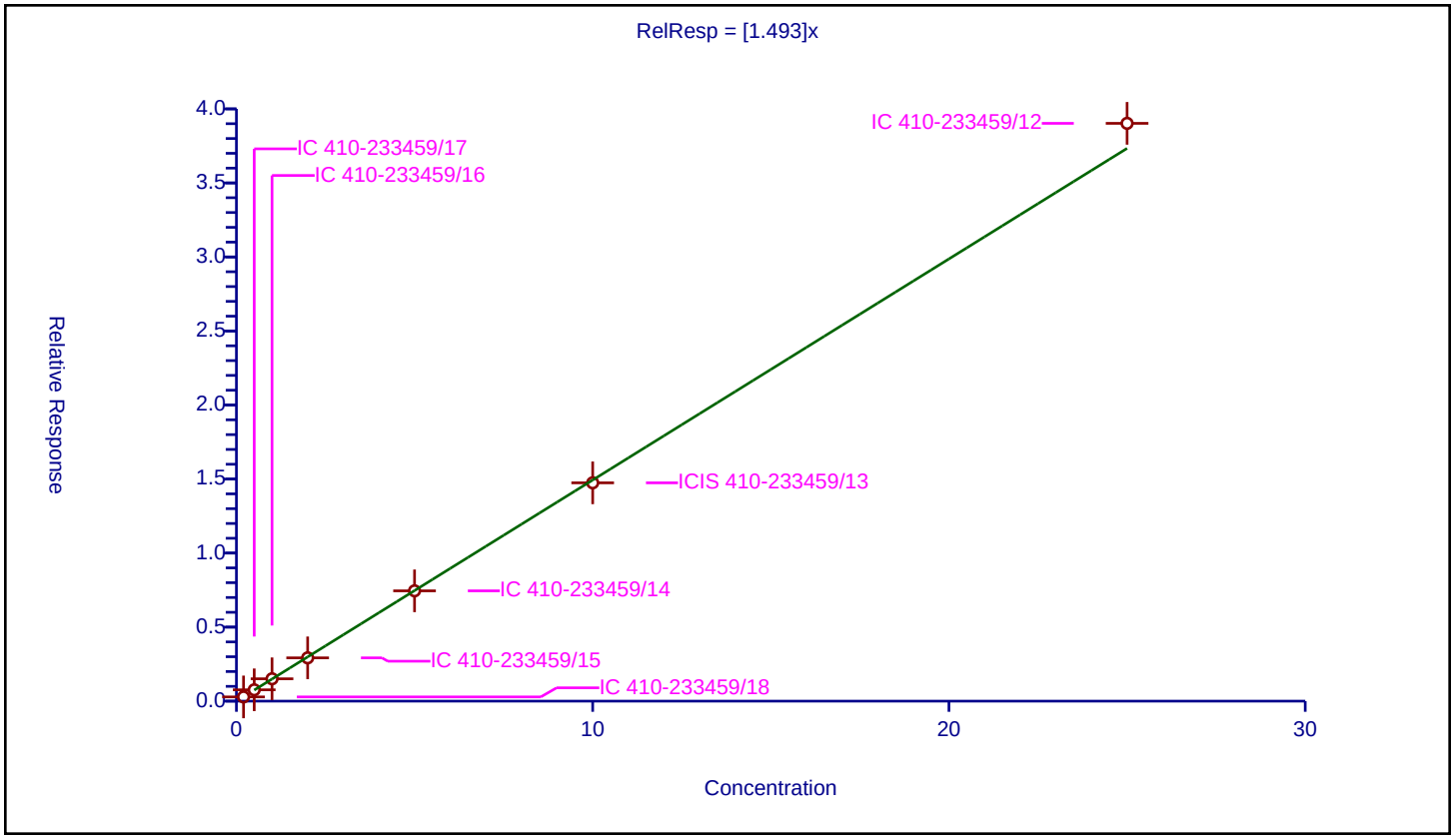
Curve Coefficients

Intercept:	0
Slope:	1.493

Error Coefficients

Standard Error:	1800000
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 410-233459/18	0.2	0.285293	10.0	1013693.0	1.426467	Y
2	IC 410-233459/17	0.5	0.765278	10.0	1007739.0	1.530555	Y
3	IC 410-233459/16	1.0	1.509523	10.0	1012300.0	1.509523	Y
4	IC 410-233459/15	2.0	2.923288	10.0	1013034.0	1.461644	Y
5	IC 410-233459/14	5.0	7.450181	10.0	1016421.0	1.490036	Y
6	ICIS 410-233459/13	10.0	14.744312	10.0	1049716.0	1.474431	Y
7	IC 410-233459/12	25.0	39.023657	10.0	1039276.0	1.560946	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

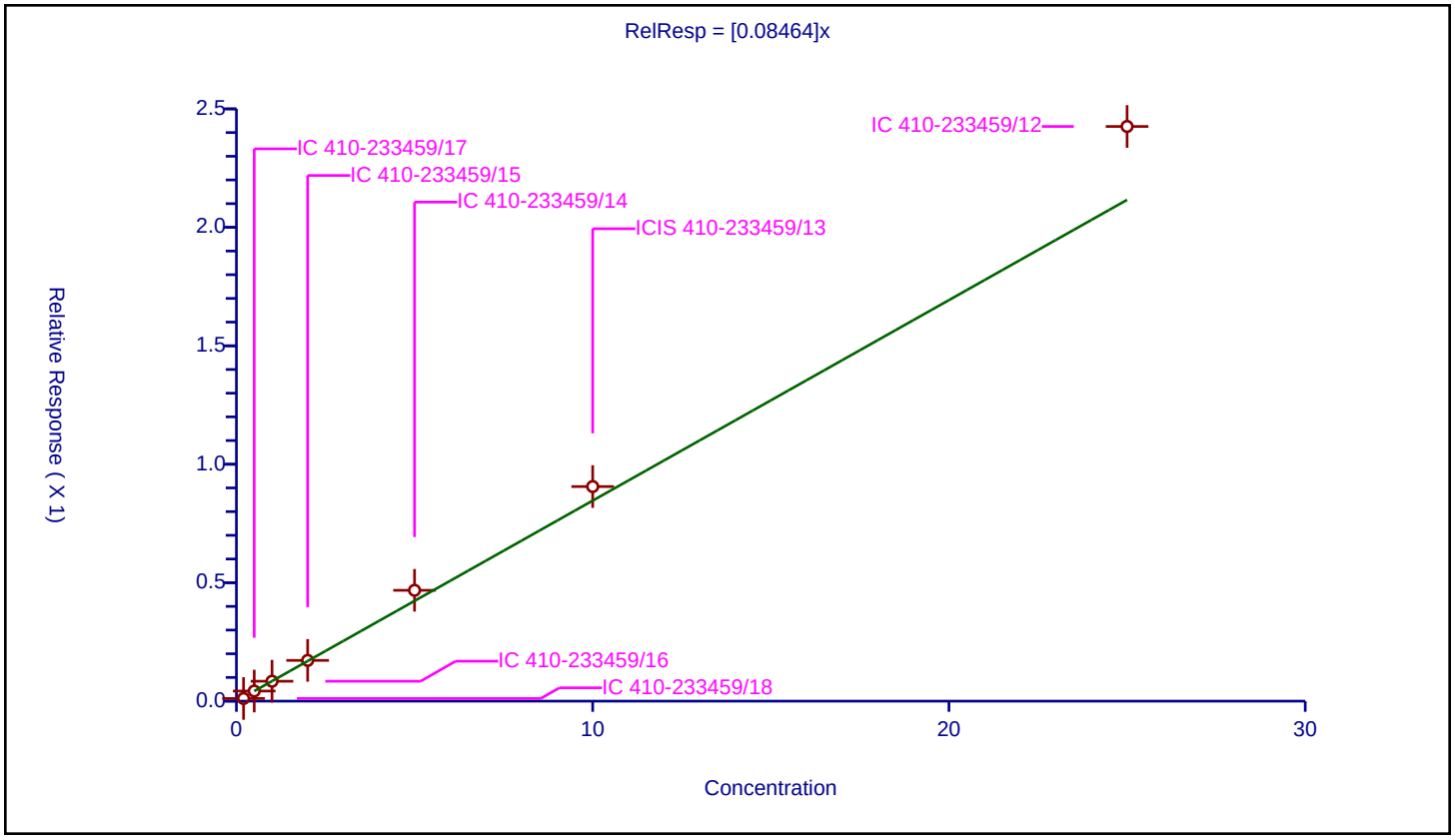
Curve Coefficients

Intercept:	0
Slope:	0.08464

Error Coefficients

Standard Error:	112000
Relative Standard Error:	16.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.011167	10.0	1013693.0	0.055835	Y
2	IC 410-233459/17	0.5	0.042719	10.0	1007739.0	0.085439	Y
3	IC 410-233459/16	1.0	0.084056	10.0	1012300.0	0.084056	Y
4	IC 410-233459/15	2.0	0.171929	10.0	1013034.0	0.085965	Y
5	IC 410-233459/14	5.0	0.467887	10.0	1016421.0	0.093577	Y
6	ICIS 410-233459/13	10.0	0.905826	10.0	1049716.0	0.090583	Y
7	IC 410-233459/12	25.0	2.425804	10.0	1039276.0	0.097032	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

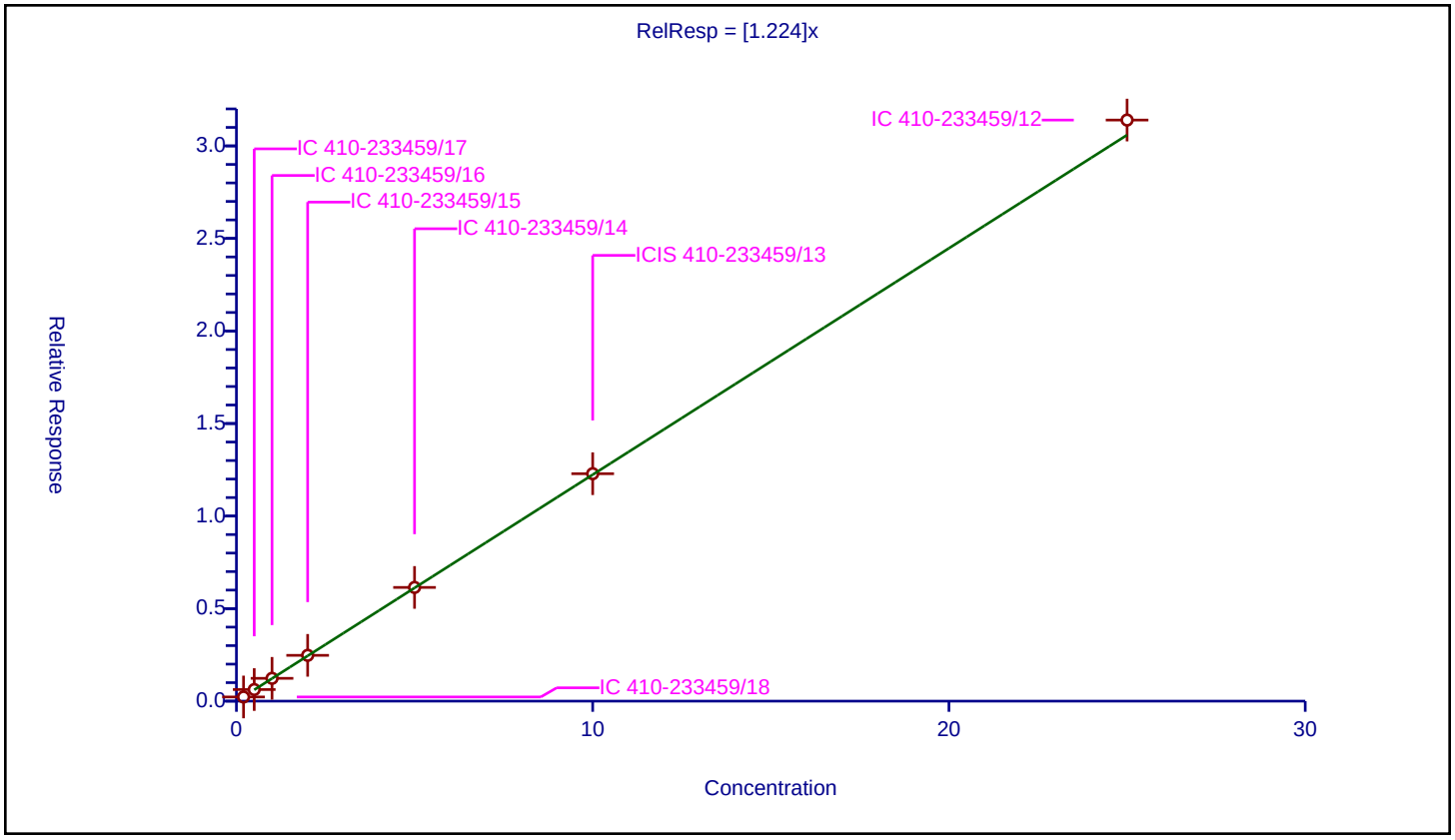
Curve Coefficients

Intercept:	0
Slope:	1.224

Error Coefficients

Standard Error:	1460000
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 410-233459/18	0.2	0.225729	10.0	1013693.0	1.128645	Y
2	IC 410-233459/17	0.5	0.626045	10.0	1007739.0	1.25209	Y
3	IC 410-233459/16	1.0	1.232984	10.0	1012300.0	1.232984	Y
4	IC 410-233459/15	2.0	2.475169	10.0	1013034.0	1.237584	Y
5	IC 410-233459/14	5.0	6.143439	10.0	1016421.0	1.228688	Y
6	ICIS 410-233459/13	10.0	12.289676	10.0	1049716.0	1.228968	Y
7	IC 410-233459/12	25.0	31.397136	10.0	1039276.0	1.255885	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

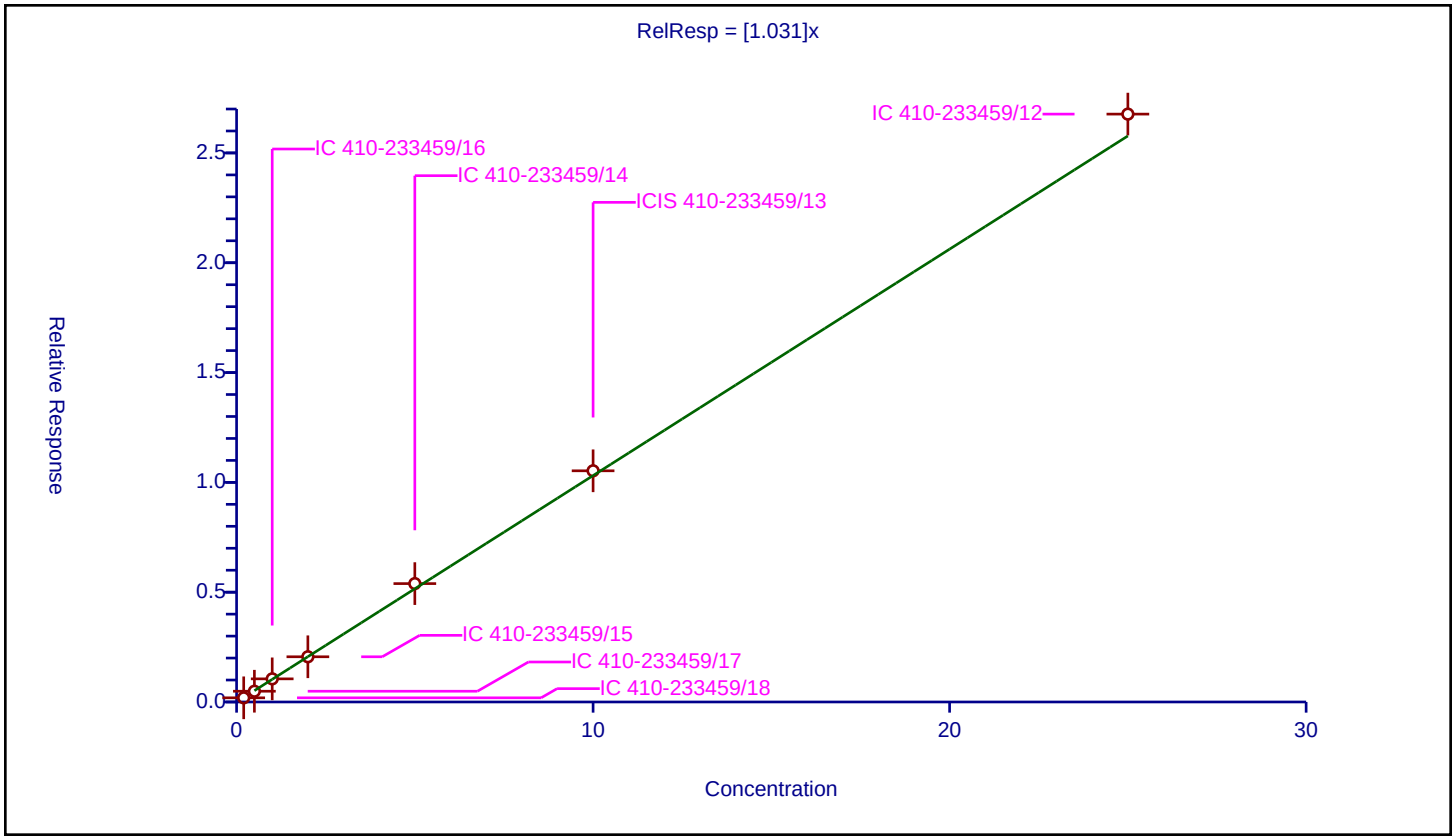
Curve Coefficients

Intercept:	0
Slope:	1.031

Error Coefficients

Standard Error:	1250000
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 410-233459/18	0.2	0.190176	10.0	1013693.0	0.95088	Y
2	IC 410-233459/17	0.5	0.490504	10.0	1007739.0	0.981008	Y
3	IC 410-233459/16	1.0	1.053788	10.0	1012300.0	1.053788	Y
4	IC 410-233459/15	2.0	2.058884	10.0	1013034.0	1.029442	Y
5	IC 410-233459/14	5.0	5.390749	10.0	1016421.0	1.07815	Y
6	ICIS 410-233459/13	10.0	10.526828	10.0	1049716.0	1.052683	Y
7	IC 410-233459/12	25.0	26.767702	10.0	1039276.0	1.070708	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

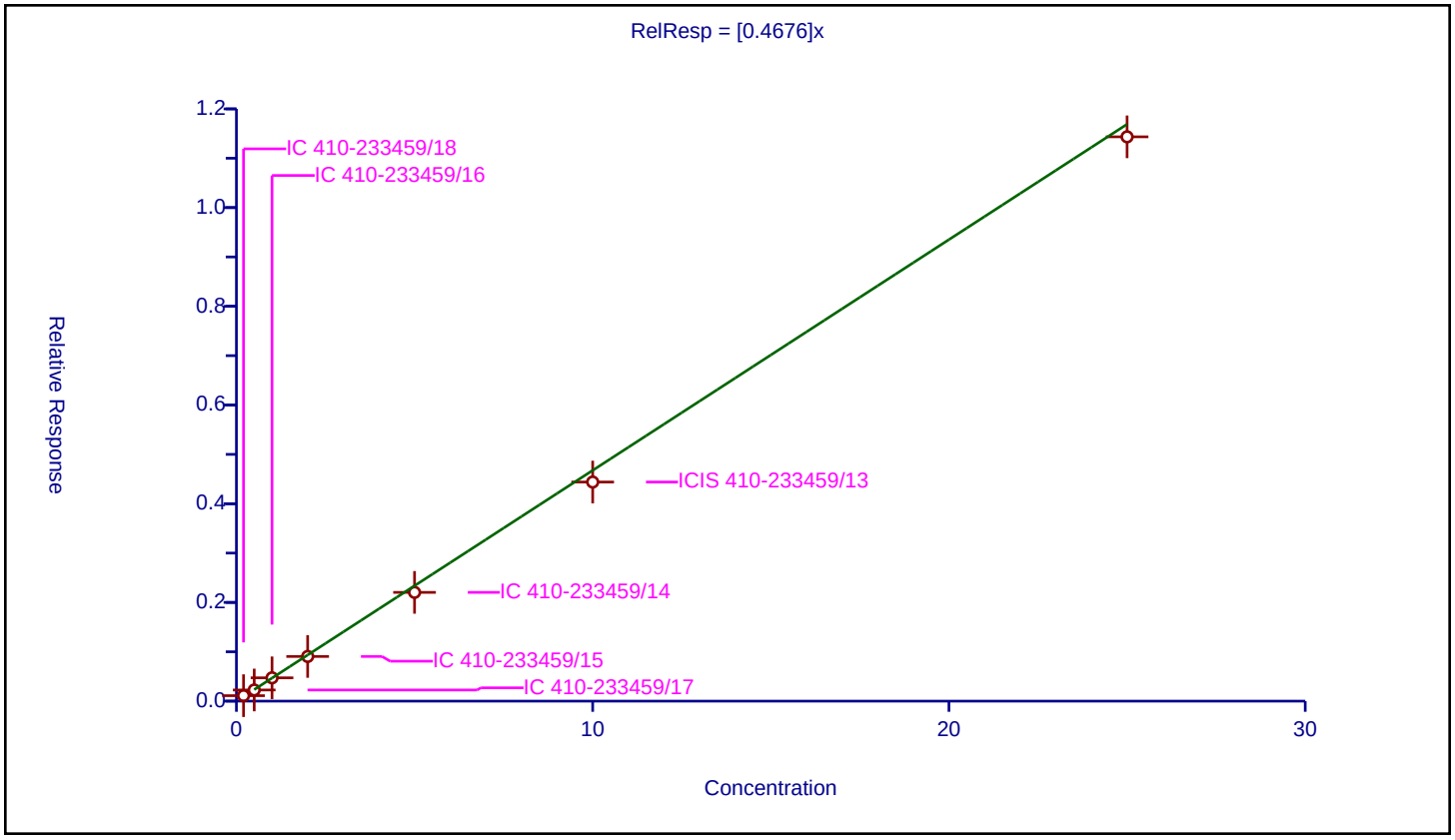
Curve Coefficients

Intercept:	0
Slope:	0.4676

Error Coefficients

Standard Error:	531000
Relative Standard Error:	8.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-233459/18	0.2	0.110763	10.0	1013693.0	0.553817	Y
2	IC 410-233459/17	0.5	0.226011	10.0	1007739.0	0.452022	Y
3	IC 410-233459/16	1.0	0.472409	10.0	1012300.0	0.472409	Y
4	IC 410-233459/15	2.0	0.90534	10.0	1013034.0	0.45267	Y
5	IC 410-233459/14	5.0	2.203742	10.0	1016421.0	0.440748	Y
6	ICIS 410-233459/13	10.0	4.439325	10.0	1049716.0	0.443932	Y
7	IC 410-233459/12	25.0	11.43371	10.0	1039276.0	0.457348	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

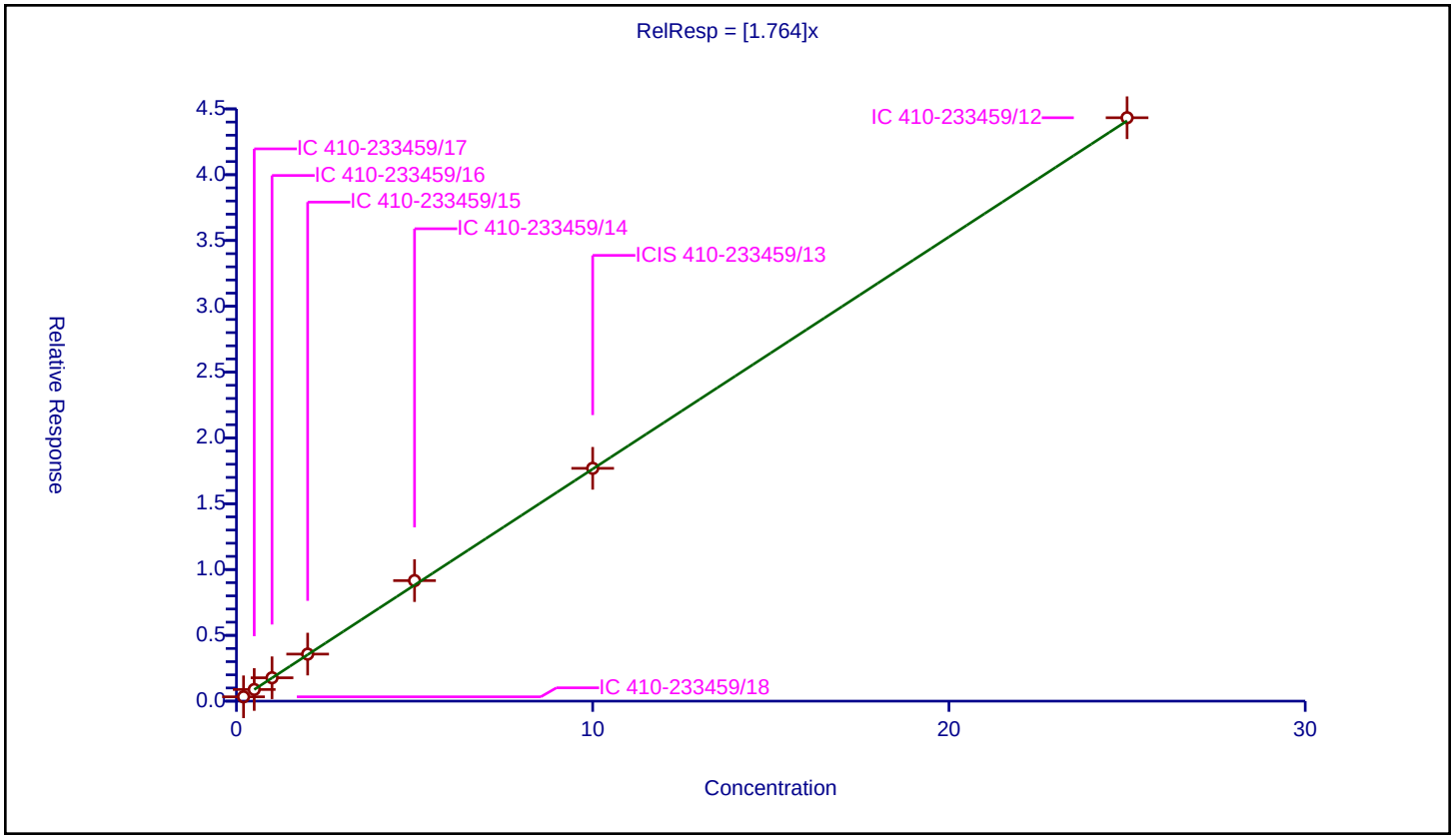
Curve Coefficients

Intercept:	0
Slope:	1.764

Error Coefficients

Standard Error:	2070000
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 410-233459/18	0.2	0.328078	10.0	1013693.0	1.640388	Y
2	IC 410-233459/17	0.5	0.884644	10.0	1007739.0	1.769287	Y
3	IC 410-233459/16	1.0	1.776173	10.0	1012300.0	1.776173	Y
4	IC 410-233459/15	2.0	3.574145	10.0	1013034.0	1.787072	Y
5	IC 410-233459/14	5.0	9.158331	10.0	1016421.0	1.831666	Y
6	ICIS 410-233459/13	10.0	17.690042	10.0	1049716.0	1.769004	Y
7	IC 410-233459/12	25.0	44.328311	10.0	1039276.0	1.773132	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

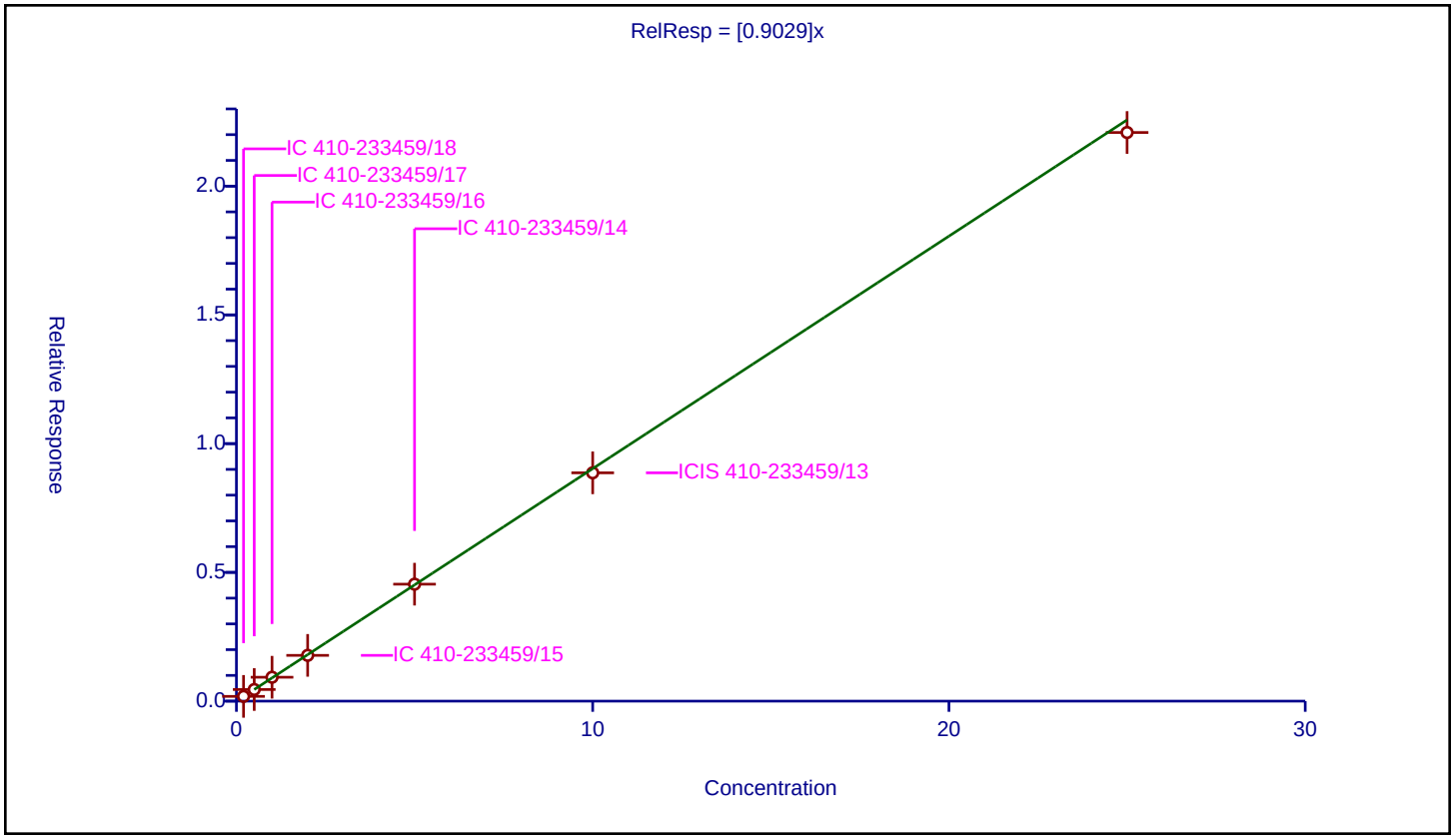
Curve Coefficients

Intercept:	0
Slope:	0.9029

Error Coefficients

Standard Error:	1030000
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 410-233459/18	0.2	0.184287	10.0	1013693.0	0.921433	Y
2	IC 410-233459/17	0.5	0.451764	10.0	1007739.0	0.903528	Y
3	IC 410-233459/16	1.0	0.927867	10.0	1012300.0	0.927867	Y
4	IC 410-233459/15	2.0	1.777778	10.0	1013034.0	0.888889	Y
5	IC 410-233459/14	5.0	4.542606	10.0	1016421.0	0.908521	Y
6	ICIS 410-233459/13	10.0	8.86636	10.0	1049716.0	0.886636	Y
7	IC 410-233459/12	25.0	22.08397	10.0	1039276.0	0.883359	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-88520-1

SDG No.:

Lab Sample ID: ICV 410-213100/18 Calibration Date: 01/11/2022 00:08

Instrument ID: 16334 Calib Start Date: 01/10/2022 21:33

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 01/10/2022 23:46

Lab File ID: GJ10X18.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	0.2426	0.2813	0.1000	5.80	5.00	16.0	30.0
Chloromethane	Ave	0.2772	0.2892	0.1000	5.22	5.00	4.3	30.0
Vinyl chloride	Ave	0.2869	0.2988	0.1000	5.21	5.00	4.2	30.0
1,3-Butadiene	Ave	0.2963	0.2749		4.64	5.00	-7.2	30.0
Bromomethane	Ave	0.2111	0.2117	0.1000	5.02	5.00	0.3	30.0
Chloroethane	Ave	0.1707	0.1752	0.1000	5.13	5.00	2.6	30.0
Dichlorofluoromethane	Ave	0.3970	0.4191		5.28	5.00	5.6	30.0
Trichlorofluoromethane	Ave	0.3846	0.3981	0.1000	5.18	5.00	3.5	30.0
Pentane	None					5.00		30.0
Ethyl ether	Ave	0.1682	0.1910		5.65	4.97	13.6	30.0
Freon 123a	Ave	0.2735	0.2722		4.98	5.00	-0.4	30.0
Acrolein	Ave	2.079	2.200		39.7	37.5	5.8	30.0
1,1-Dichloroethene	Ave	0.2076	0.2205	0.1000	5.31	5.00	6.2	30.0
Freon 113	Ave	0.2074	0.2354	0.1000	5.67	5.00	13.5	30.0
Acetone	Ave	2.298	2.370	0.1000	64.4	62.5	3.1	30.0
Methyl iodide	Ave	0.3611	0.3907		5.41	5.00	8.2	30.0
Ethyl bromide	Ave	0.1767	0.1727		4.88	4.99	-2.2	30.0
Carbon disulfide	Ave	0.5244	0.5961	0.1000	5.68	5.00	13.7	30.0
Methyl acetate	Ave	6.767	6.899	0.1000	5.10	5.00	2.0	30.0
Allyl chloride	Ave	0.2957	0.3147		5.32	5.00	6.5	30.0
Methylene Chloride	Ave	0.2239	0.2306	0.1000	5.15	5.00	3.0	30.0
t-Butyl alcohol	Ave	0.9052	0.8472		46.8	50.0	-6.4	30.0
Acrylonitrile	Ave	3.059	3.554		29.1	25.0	16.2	30.0
Methyl tert-butyl ether	Ave	0.5679	0.5904	0.1000	5.20	5.00	4.0	30.0
trans-1,2-Dichloroethene	Ave	0.2297	0.2310	0.1000	5.03	5.00	0.6	30.0
n-Hexane	Ave	0.2935	0.3042		5.18	5.00	3.6	30.0
1,1-Dichloroethane	Ave	0.3891	0.3832	0.2000	4.92	5.00	-1.5	30.0
di-Isopropyl ether	Ave	0.6734	0.6948		5.16	5.00	3.2	30.0
2-Chloro-1,3-butadiene	Ave	0.3130	0.3416		5.46	5.00	9.1	30.0
Ethyl t-butyl ether	Ave	0.6581	0.6912		5.25	5.00	5.0	30.0
2-Butanone (MEK)	Ave	4.512	5.026	0.1000	69.6	62.5	11.4	30.0
cis-1,2-Dichloroethene	Ave	0.2513	0.2617	0.1000	5.21	5.00	4.2	30.0
2,2-Dichloropropane	Ave	0.2917	0.3099		5.31	5.00	6.2	30.0
Propionitrile	Ave	1.181	1.269		40.3	37.5	7.4	30.0
Methacrylonitrile	Ave	4.356	4.912		42.3	37.5	12.8	30.0
Bromochloromethane	Ave	0.1130	0.1200		5.31	5.00	6.2	30.0
Tetrahydrofuran	Ave	1.274	1.488		29.2	25.0	16.8	30.0
Chloroform	Ave	0.3957	0.4010	0.2000	5.07	5.00	1.4	30.0
1,1,1-Trichloroethane	Ave	0.3382	0.3459	0.1000	5.11	5.00	2.3	30.0
Cyclohexane	Ave	0.3660	0.3908	0.1000	5.34	5.00	6.8	30.0
1,1-Dichloropropene	Ave	0.3089	0.3198		5.18	5.00	3.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-88520-1

SDG No.:

Lab Sample ID: ICV 410-213100/18 Calibration Date: 01/11/2022 00:08

Instrument ID: 16334 Calib Start Date: 01/10/2022 21:33

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 01/10/2022 23:46

Lab File ID: GJ10X18.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon tetrachloride	Ave	0.2919	0.3023	0.1000	5.18	5.00	3.6	30.0
Isobutyl alcohol	Ave	0.0048	0.0047		123	125	-1.5	30.0
Benzene	Ave	0.9294	0.9400	0.5000	5.06	5.00	1.1	30.0
1,2-Dichloroethane	Ave	0.2520	0.2474	0.1000	4.91	5.00	-1.8	30.0
t-Amyl methyl ether	Ave	0.6067	0.6318		5.21	5.00	4.1	30.0
n-Heptane	Ave	0.3048	0.3104		5.09	5.00	1.8	30.0
n-Butanol	Ave	0.2969	0.3130		264	250	5.4	30.0
Trichloroethene	Ave	0.2492	0.2466	0.2000	4.95	5.00	-1.0	30.0
Methylcyclohexane	Ave	0.4109	0.4379	0.1000	5.33	5.00	6.6	30.0
1,2-Dichloropropane	Ave	0.2346	0.2389	0.1000	5.09	5.00	1.8	30.0
Methyl methacrylate	Ave	8.296	9.586		5.78	5.00	15.5	30.0
Dibromomethane	Ave	0.1186	0.1223		5.15	5.00	3.1	30.0
1,4-Dioxane	Ave	0.0629	0.0693	0.0050	138	125	10.1	30.0
Bromodichloromethane	Ave	0.2705	0.2857	0.2000	5.28	5.00	5.6	30.0
2-Nitropropane	Ave	1.854	1.960		5.29	5.00	5.7	30.0
1-Bromo-2-chloroethane	Ave	0.2480	0.2531		5.10	5.00	2.1	30.0
cis-1,3-Dichloropropene	Ave	0.3397	0.3465	0.2000	5.10	5.00	2.0	30.0
4-Methyl-2-pentanone (MIBK)	Ave	10.94	12.34	0.1000	70.5	62.5	12.8	30.0
Toluene	Ave	0.7965	0.7960	0.4000	5.00	5.00	-0.0	30.0
trans-1,3-Dichloropropene	Ave	0.3680	0.3935	0.1000	5.35	5.00	6.9	30.0
Ethyl methacrylate	Ave	0.3305	0.3586		5.42	5.00	8.5	30.0
1,1,2-Trichloroethane	Ave	0.2335	0.2412	0.1000	5.16	5.00	3.3	30.0
Tetrachloroethene	Ave	0.3707	0.3751	0.2000	5.06	5.00	1.2	30.0
1,3-Dichloropropane	Ave	0.3951	0.4034		5.11	5.00	2.1	30.0
2-Hexanone	Ave	7.863	9.232	0.1000	73.4	62.5	17.4	30.0
Dibromochloromethane	Ave	0.2628	0.2727		5.19	5.00	3.8	30.0
1,2-Dibromoethane (EDB)	Ave	0.2251	0.2316	0.1000	5.14	5.00	2.9	30.0
1-Chlorohexane	Ave	0.4554	0.4490		4.93	5.00	-1.4	30.0
Chlorobenzene	Ave	0.9254	0.9266	0.5000	5.01	5.00	0.1	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3073	0.3175		5.17	5.00	3.3	30.0
Ethylbenzene	Ave	1.555	1.567	0.1000	5.04	5.00	0.8	30.0
m&p-Xylene	Ave	0.5995	0.6133	0.1000	10.2	10.0	2.3	30.0
o-Xylene	Ave	0.5964	0.6039	0.3000	5.06	5.00	1.3	30.0
Styrene	Ave	1.009	1.045	0.3000	5.18	5.00	3.6	30.0
Bromoform	Ave	0.1567	0.1661	0.1000	5.30	5.00	6.0	30.0
Isopropylbenzene	Ave	1.534	1.594	0.1000	5.20	5.00	3.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5528	0.5592	0.3000	5.06	5.00	1.1	30.0
Bromobenzene	Ave	0.6975	0.7193		5.16	5.00	3.1	30.0
trans-1,4-Dichloro-2-butene	Ave	3.685	4.177		28.3	25.0	13.4	30.0
1,2,3-Trichloropropane	Ave	0.1467	0.1507		5.14	5.00	2.7	30.0
N-Propylbenzene	Ave	3.298	3.285		4.98	5.00	-0.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-88520-1

SDG No.:

Lab Sample ID: ICV 410-213100/18 Calibration Date: 01/11/2022 00:08

Instrument ID: 16334 Calib Start Date: 01/10/2022 21:33

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 01/10/2022 23:46

Lab File ID: GJ10X18.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.6856	0.6913		5.04	5.00	0.8	30.0
1,3,5-Trimethylbenzene	Ave	2.355	2.380		5.05	5.00	1.0	30.0
4-Chlorotoluene	Ave	0.7107	0.7215		5.08	5.00	1.5	30.0
tert-Butylbenzene	Ave	0.5309	0.5307		5.00	5.00	-0.0	30.0
Pentachloroethane	Ave	0.4069	0.4233		5.20	5.00	4.0	30.0
1,2,4-Trimethylbenzene	Ave	2.435	2.456		5.04	5.00	0.9	30.0
sec-Butylbenzene	Ave	3.001	3.116		5.19	5.00	3.8	30.0
1,3-Dichlorobenzene	Ave	1.418	1.419	0.6000	5.00	5.00	0.0	30.0
p-Isopropyltoluene	Ave	2.684	2.734		5.09	5.00	1.9	30.0
1,4-Dichlorobenzene	Ave	1.453	1.452	0.5000	5.00	5.00	-0.0	30.0
1,2,3-Trimethylbenzene	Ave	1.112	1.113		5.00	5.00	0.0	30.0
Benzyl chloride	Lin2		0.1728		4.52	5.00	-9.5	30.0
n-Butylbenzene	Ave	1.366	1.363		4.99	5.00	-0.3	30.0
1,2-Dichlorobenzene	Ave	1.343	1.342	0.4000	5.00	5.00	-0.0	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0803	0.0801	0.0500	4.99	5.00	-0.3	30.0
1,3,5-Trichlorobenzene	Ave	1.149	1.178		5.12	5.00	2.5	30.0
1,2,4-Trichlorobenzene	Ave	1.035	1.036	0.2000	5.00	5.00	0.0	30.0
Hexachlorobutadiene	Ave	0.5341	0.5426		5.08	5.00	1.6	30.0
Naphthalene	Ave	1.825	1.848		5.06	5.00	1.2	30.0
1,2,3-Trichlorobenzene	Ave	0.9023	0.9140		5.06	5.00	1.3	30.0
Dibromofluoromethane (Surr)	Ave	0.2400	0.2408		10.0	10.0	0.3	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0507	0.0510		10.1	10.0	0.6	30.0
Toluene-d8 (Surr)	Ave	1.280	1.287		10.0	10.0	0.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4832	0.4834		10.0	10.0	0.0	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X18.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 11-Jan-2022 00:08:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0048068-018
Misc. Info.: ICV
Operator ID: kas02648 Instrument ID: 16334
Sublist:

Method: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 11-Jan-2022 18:50:26 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1654

First Level Reviewer: campbellme Date: 11-Jan-2022 18:49:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.916	1.928	-0.012	99	329412	5.00	5.80	M
5 Chloromethane	50	2.111	2.123	-0.012	99	338614	5.00	5.22	
8 Vinyl chloride	62	2.227	2.239	-0.012	97	349928	5.00	5.21	
7 Butadiene	39	2.233	2.245	-0.012	91	321946	5.00	4.64	
9 Bromomethane	94	2.556	2.562	-0.006	90	247936	5.00	5.02	
10 Chloroethane	64	2.629	2.636	-0.007	100	205110	5.00	5.13	
12 Dichlorofluoromethane	67	2.867	2.873	-0.006	97	490804	5.00	5.28	
13 Trichlorofluoromethane	101	2.934	2.940	-0.006	97	466142	5.00	5.18	
15 Ethyl ether	59	3.166	3.172	-0.006	92	222439	4.97	5.65	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.245	3.251	-0.006	91	318785	5.00	4.98	
18 Acrolein	56	3.336	3.349	-0.013	100	262450	37.5	39.7	
19 1,1-Dichloroethene	96	3.464	3.471	-0.007	97	258178	5.00	5.31	
20 112TCTFE	101	3.501	3.513	-0.012	91	275586	5.00	5.67	
21 Acetone	43	3.507	3.526	-0.019	76	471141	62.5	64.4	M
23 Iodomethane	142	3.653	3.660	-0.007	98	457512	5.00	5.41	
24 Ethyl bromide	108	3.678	3.690	-0.012	98	201877	4.99	4.88	
22 Isopropyl alcohol	45	3.751	3.757	-0.006	25	62019	37.5	38.1	
25 Carbon disulfide	76	3.745	3.757	-0.012	99	697994	5.00	5.68	
27 Methyl acetate	43	3.879	3.897	-0.018	97	109734	5.00	5.10	M
28 3-Chloro-1-propene	41	3.928	3.940	-0.012	93	368559	5.00	5.32	
29 Methylene Chloride	84	4.111	4.117	-0.006	90	270017	5.00	5.15	
* 30 t-Butyl alcohol-d10 (IS)	65	4.190	4.196	-0.006	69	159047	50.0	50.0	M
31 2-Methyl-2-propanol	59	4.306	4.306	0.000	98	134745	50.0	46.8	
32 Acrylonitrile	53	4.458	4.464	-0.006	98	282666	25.0	29.1	
33 Methyl tert-butyl ether	73	4.513	4.513	0.000	95	691312	5.00	5.20	
34 trans-1,2-Dichloroethene	96	4.513	4.519	-0.006	98	270528	5.00	5.03	
35 Hexane	57	4.940	4.946	-0.006	91	356175	5.00	5.18	
37 1,1-Dichloroethane	63	5.178	5.184	-0.006	96	448715	5.00	4.92	
38 Isopropyl ether	45	5.245	5.251	-0.006	94	813550	5.00	5.16	
39 2-Chloro-1,3-butadiene	53	5.287	5.294	-0.007	90	400012	5.00	5.46	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.775	5.781	-0.006	98	809364	5.00	5.25	
41 2-Butanone (MEK)	43	5.988	6.001	-0.013	99	999180	62.5	69.6	
42 cis-1,2-Dichloroethene	96	6.019	6.025	-0.006	80	306469	5.00	5.21	
43 2,2-Dichloropropane	77	6.031	6.037	-0.006	74	362885	5.00	5.31	
45 Propionitrile	54	6.092	6.098	-0.006	99	151336	37.5	40.3	
48 Methacrylonitrile	67	6.287	6.293	-0.006	91	585935	37.5	42.3	
49 Chlorobromomethane	128	6.348	6.354	-0.006	89	140489	5.00	5.31	
50 Tetrahydrofuran	71	6.354	6.354	0.000	87	118339	25.0	29.2	
51 Chloroform	83	6.500	6.507	-0.007	93	469550	5.00	5.07	
$ 52 Dibromofluoromethane (Surr)	113	6.714	6.720	-0.006	94	563926	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.726	6.732	-0.006	98	404989	5.00	5.11	
54 Cyclohexane	56	6.824	6.824	0.000	89	457577	5.00	5.34	
56 Carbon tetrachloride	117	6.933	6.933	0.000	85	353977	5.00	5.18	
57 1,1-Dichloropropene	75	6.933	6.940	-0.007	96	374495	5.00	5.18	
58 Isobutyl alcohol	41	7.134	7.141	-0.007	89	137729	125.0	123.1	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.165	7.171	-0.006	92	119488	10.0	10.1	
60 Benzene	78	7.195	7.202	-0.007	97	1100695	5.00	5.06	
61 1,2-Dichloroethane	62	7.269	7.269	0.000	98	289685	5.00	4.91	
63 Tert-amyl methyl ether	73	7.397	7.397	0.000	99	739793	5.00	5.21	
* 64 Fluorobenzene (IS)	96	7.604	7.610	-0.006	99	2341917	10.0	10.0	
65 n-Heptane	43	7.616	7.622	-0.006	92	363504	5.00	5.09	
67 n-Butanol	56	8.025	8.025	0.000	88	248890	250.0	263.6	
68 Trichloroethene	95	8.079	8.086	-0.007	97	288785	5.00	4.95	
69 Methylcyclohexane	83	8.390	8.397	-0.007	90	512769	5.00	5.33	
70 1,2-Dichloropropane	63	8.421	8.427	-0.006	96	279718	5.00	5.09	
71 2-ethoxy-2-methyl butane	87	8.433	8.433	0.000	93	420465	5.00	5.24	
72 Methyl methacrylate	69	8.506	8.519	-0.012	90	152456	5.00	5.78	
74 Dibromomethane	93	8.531	8.531	0.000	93	143202	5.00	5.15	
73 1,4-Dioxane	88	8.573	8.561	0.012	79	27543	125.0	137.6	M
76 Dichlorobromomethane	83	8.768	8.775	-0.007	99	334553	5.00	5.28	
77 2-Nitropropane	41	9.049	9.055	-0.006	99	31179	5.00	5.29	
80 1-Bromo-2-chloroethane	63	9.158	9.165	-0.007	98	296424	5.00	5.10	
81 cis-1,3-Dichloropropene	75	9.323	9.323	0.000	97	405695	5.00	5.10	
82 4-Methyl-2-pentanone (MIBK)	43	9.506	9.506	0.000	96	2453178	62.5	70.5	
$ 83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	2289972	10.0	10.0	
84 Toluene	92	9.713	9.713	0.000	98	708400	5.00	5.00	
96 trans-1,3-Dichloropropene	75	9.975	9.976	-0.001	92	350200	5.00	5.35	
98 Ethyl methacrylate	69	10.042	10.043	-0.001	89	319111	5.00	5.42	
99 1,1,2-Trichloroethane	97	10.183	10.183	0.000	90	214658	5.00	5.16	
100 Tetrachloroethene	166	10.268	10.268	0.000	97	333822	5.00	5.06	
101 1,3-Dichloropropane	76	10.347	10.347	0.000	89	359046	5.00	5.11	
102 2-Hexanone	43	10.402	10.408	-0.006	96	1835367	62.5	73.4	
104 Chlorodibromomethane	129	10.561	10.561	0.000	89	242676	5.00	5.19	
105 Ethylene Dibromide	107	10.670	10.671	-0.001	98	206147	5.00	5.14	
* 106 Chlorobenzene-d5 (IS)	117	11.109	11.109	0.000	84	1779998	10.0	10.0	
107 1-Chlorohexane	91	11.115	11.116	-0.001	96	399611	5.00	4.93	
108 Chlorobenzene	112	11.134	11.134	0.000	96	824681	5.00	5.01	
110 1,1,1,2-Tetrachloroethane	131	11.219	11.219	0.000	95	282531	5.00	5.17	
111 Ethylbenzene	91	11.219	11.219	0.000	98	1394547	5.00	5.04	
112 m-Xylene & p-Xylene	106	11.335	11.335	0.000	100	1091726	10.0	10.2	
113 o-Xylene	106	11.670	11.670	0.000	96	537514	5.00	5.06	
114 Styrene	104	11.682	11.683	-0.001	94	930453	5.00	5.18	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Bromoform	173	11.841	11.841	0.000	97	147840	5.00	5.30	
116 Isopropylbenzene	105	11.969	11.969	0.000	95	1418609	5.00	5.20	
$ 119 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	92	860448	10.0	10.0	
120 1,1,2,2-Tetrachloroethane	83	12.219	12.219	0.000	94	283993	5.00	5.06	
121 Bromobenzene	156	12.231	12.231	0.000	97	365351	5.00	5.16	
122 trans-1,4-Dichloro-2-butene	53	12.243	12.243	0.000	93	332198	25.0	28.3	
123 1,2,3-Trichloropropane	110	12.262	12.262	0.000	82	76536	5.00	5.14	
124 N-Propylbenzene	91	12.298	12.298	0.000	99	1668451	5.00	4.98	
125 2-Chlorotoluene	126	12.371	12.378	-0.007	97	351125	5.00	5.04	
126 1,3,5-Trimethylbenzene	105	12.432	12.438	-0.006	95	1208616	5.00	5.05	
127 4-Chlorotoluene	126	12.469	12.469	0.000	96	366446	5.00	5.08	
128 tert-Butylbenzene	134	12.676	12.676	0.000	93	269517	5.00	5.00	
129 Pentachloroethane	167	12.707	12.707	0.000	90	214968	5.00	5.20	
130 1,2,4-Trimethylbenzene	105	12.719	12.719	0.000	97	1247203	5.00	5.04	
131 sec-Butylbenzene	105	12.841	12.841	0.000	94	1582643	5.00	5.19	
132 1,3-Dichlorobenzene	146	12.938	12.938	0.000	98	720797	5.00	5.00	
133 4-Isopropyltoluene	119	12.950	12.951	-0.001	97	1388649	5.00	5.09	
* 134 1,4-Dichlorobenzene-d4	152	12.993	12.993	0.000	94	1015781	10.0	10.0	
135 1,4-Dichlorobenzene	146	13.011	13.012	-0.001	95	737664	5.00	5.00	
136 1,2,3-Trimethylbenzene	120	13.024	13.024	0.000	98	565183	5.00	5.00	
137 Benzyl chloride	126	13.091	13.091	0.000	98	87762	5.00	4.52	
138 p-Diethylbenzene	119	13.152	13.152	0.000	92	832933	5.00	5.15	
139 n-Butylbenzene	92	13.237	13.243	-0.006	97	692021	5.00	4.99	
140 1,2-Dichlorobenzene	146	13.274	13.274	0.000	99	681537	5.00	5.00	
142 1,2-Dibromo-3-Chloropropane	155	13.816	13.816	0.000	89	40697	5.00	4.99	
143 1,3,5-Trichlorobenzene	180	13.938	13.938	0.000	98	598232	5.00	5.12	
144 1,2,4-Trichlorobenzene	180	14.365	14.365	0.000	94	526036	5.00	5.00	
145 Hexachlorobutadiene	225	14.444	14.444	0.000	96	275569	5.00	5.08	
146 Naphthalene	128	14.542	14.542	0.000	97	938591	5.00	5.06	
147 1,2,3-Trichlorobenzene	180	14.688	14.688	0.000	96	464192	5.00	5.06	
148 2-Methylnaphthalene	142	15.304	15.304	0.000	92	530542	5.00	5.10	
160 Pentane	43	2.958	2.965	-0.007	96	426066	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_Penta_00011	Amount Added: 12.50	Units: uL	
MSV_LCS_VOC#1_00035	Amount Added: 12.50	Units: uL	
MSV_LCS_ETBR_00001	Amount Added: 12.50	Units: uL	
MSV_QC_Gas826_00060	Amount Added: 12.50	Units: uL	
MSV_LCS_ACROL_00038	Amount Added: 12.50	Units: uL	
MSV_LCS_EE_00001	Amount Added: 12.50	Units: uL	
MSV_29_826ISS_00028	Amount Added: 1.00	Units: uL	Run Reagent

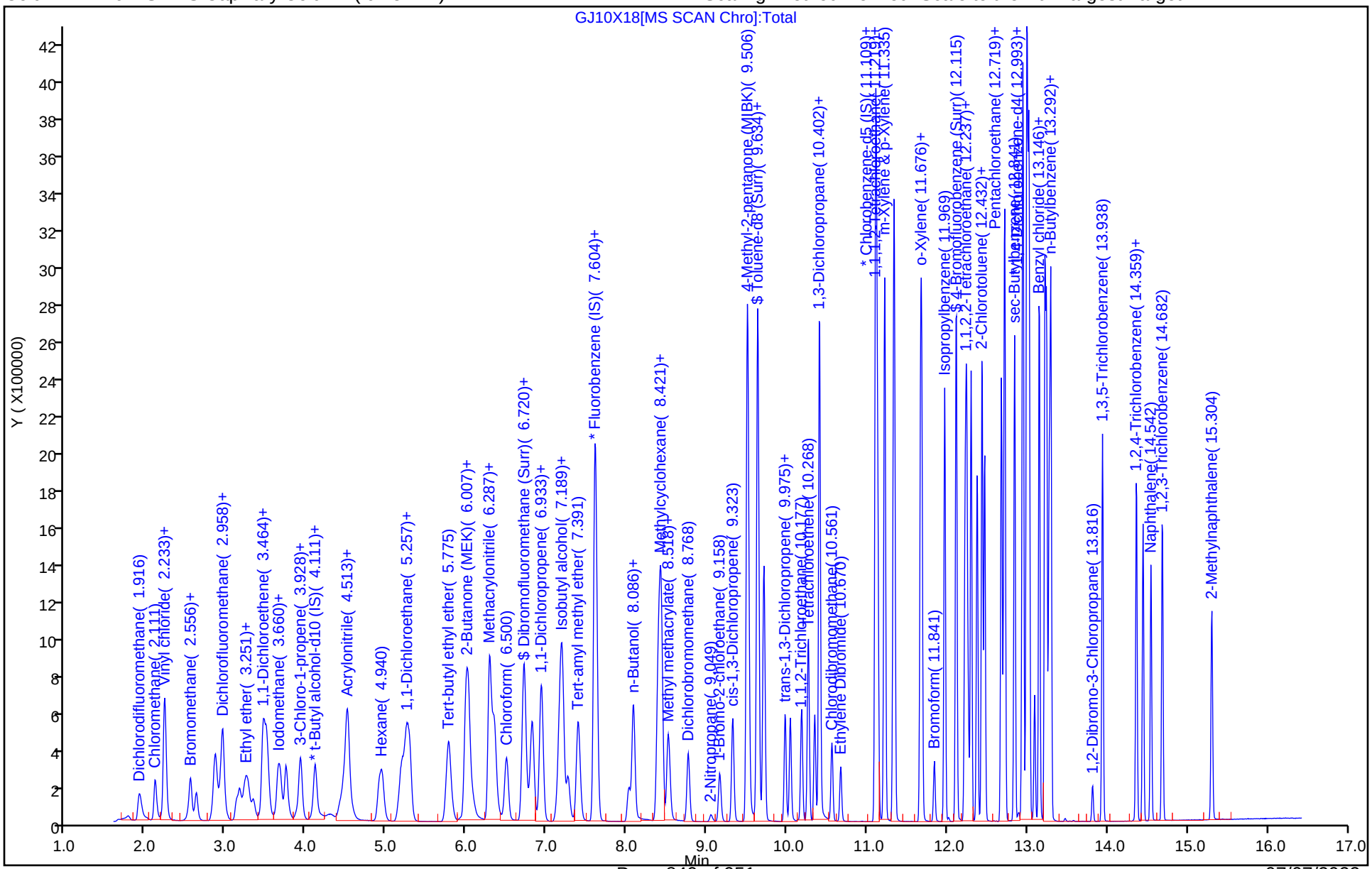
Report Date: 11-Jan-2022 18:50:38 Chrom Revision: 2.3 03-Jan-2022 17:03:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X18.D

Injection Date:	11-Jan-2022 00:08:30	Instrument ID:	16334	Operator ID:	kas02648
Lims ID:	ICV			Worklist Smp#:	18
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

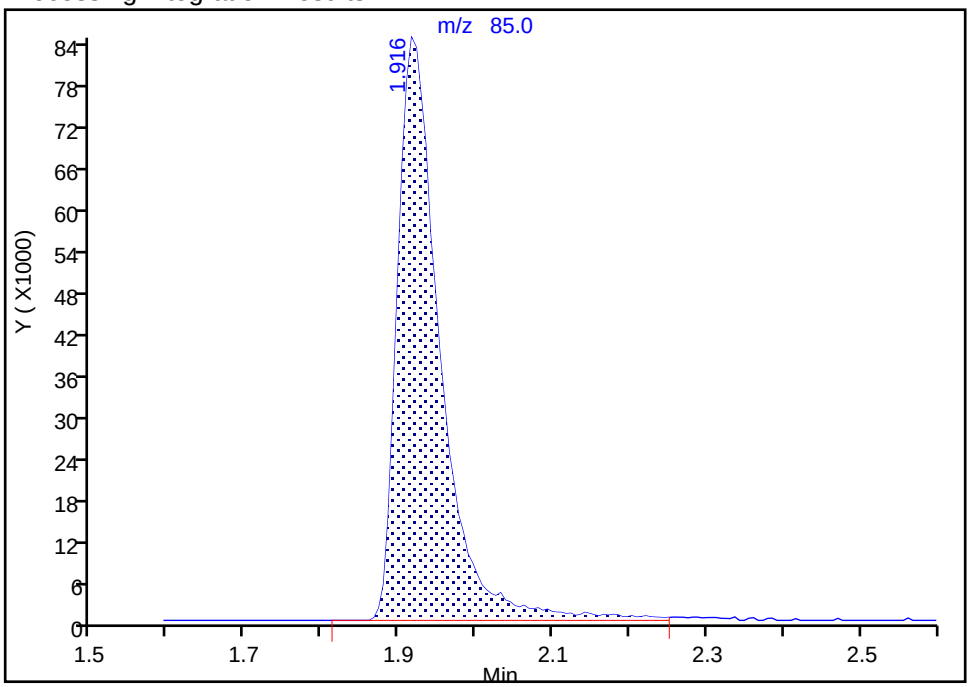
Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X18.D
Injection Date: 11-Jan-2022 00:08:30 Instrument ID: 16334
Lims ID: ICV
Client ID:
Operator ID: kas02648 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

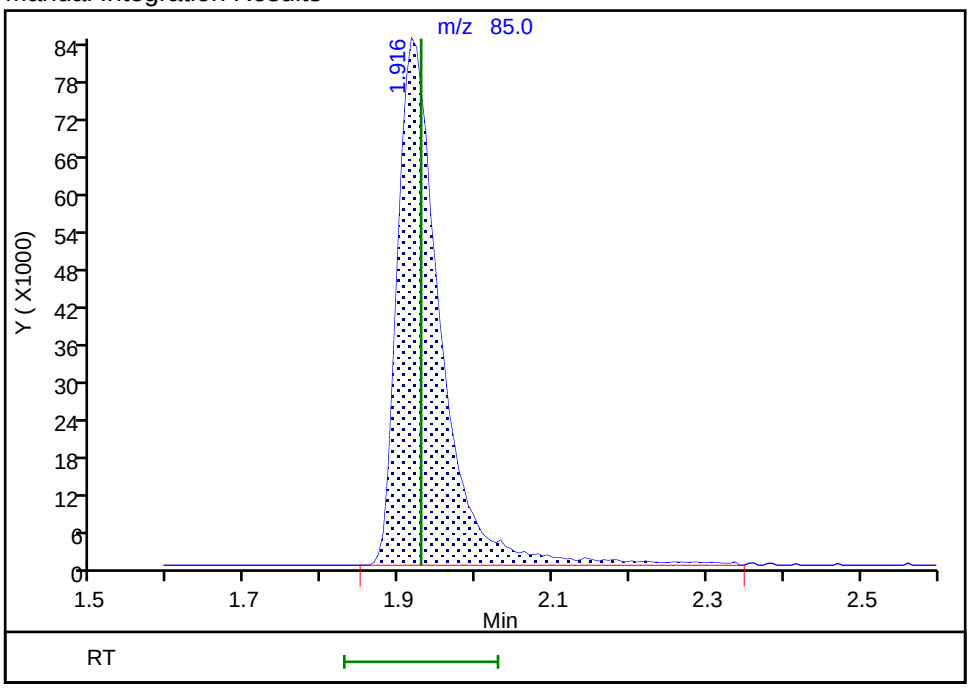
Processing Integration Results

RT: 1.92
Area: 327325
Amount: 5.761933
Amount Units: ug/l



Manual Integration Results

RT: 1.92
Area: 329412
Amount: 5.798670
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:45:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

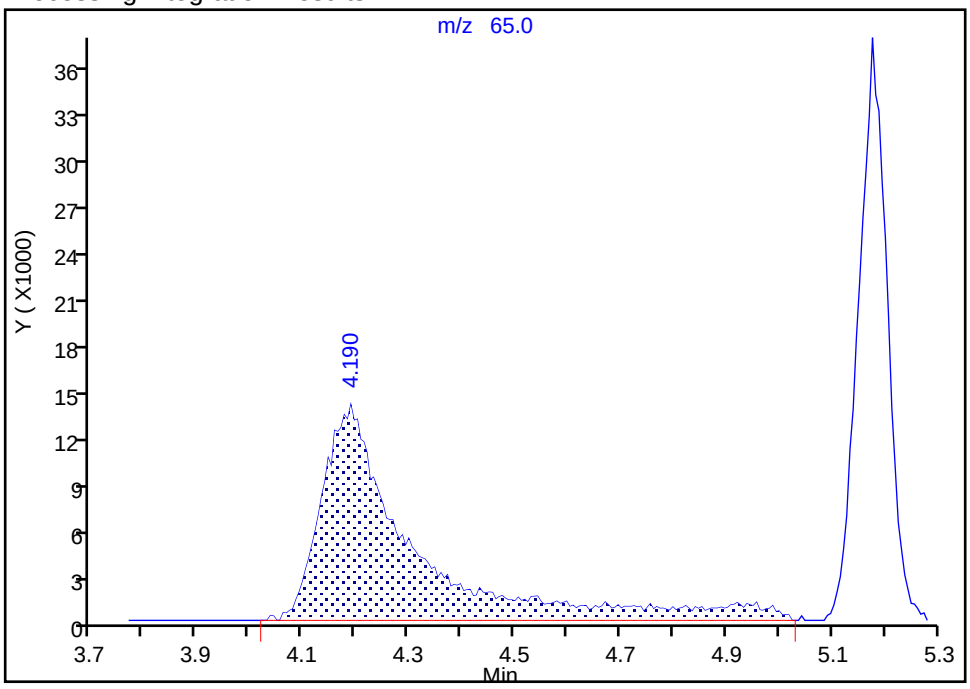
Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X18.D
Injection Date: 11-Jan-2022 00:08:30 Instrument ID: 16334
Lims ID: ICV
Client ID:
Operator ID: kas02648 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

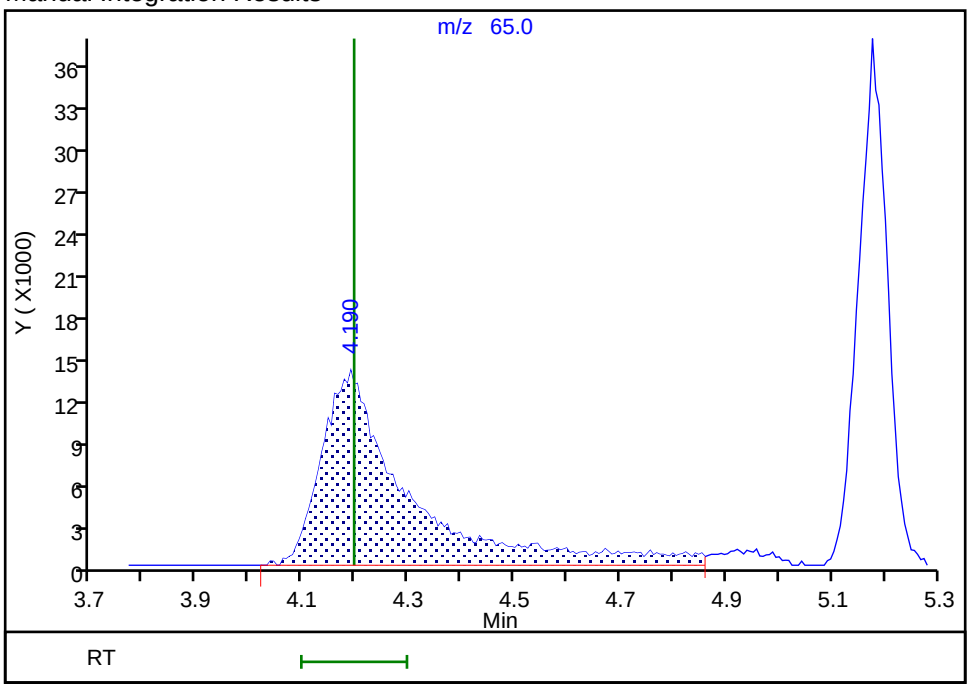
Processing Integration Results

RT: 4.19
Area: 166599
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.19
Area: 159047
Amount: 50.000000
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:46:03
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

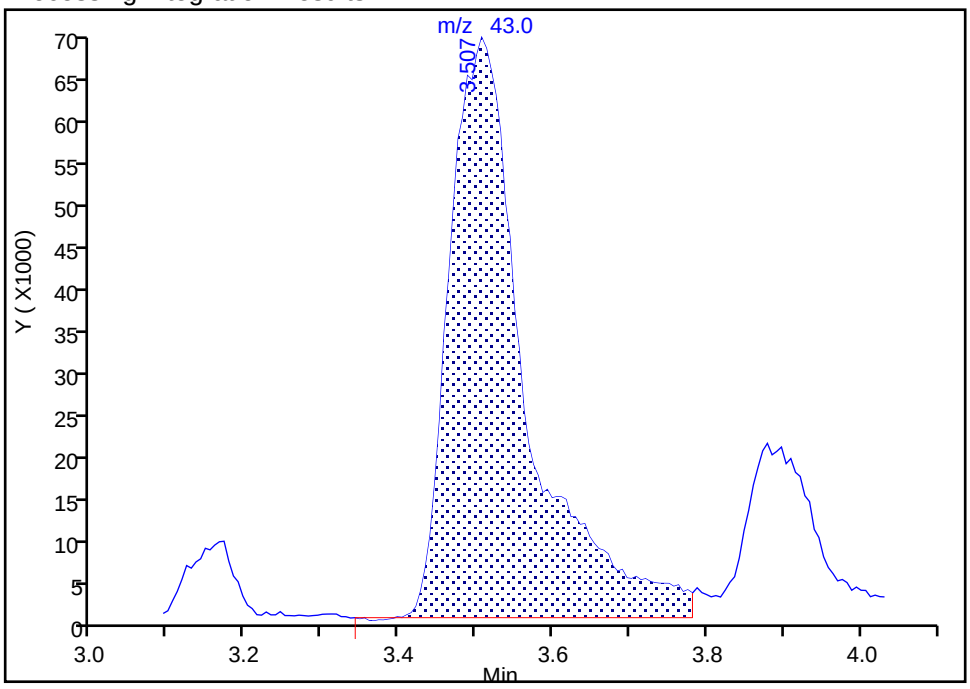
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X18.D				
Injection Date:	11-Jan-2022 00:08:30	Instrument ID:	16334		
Lims ID:	ICV				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Acetone, CAS: 67-64-1

Signal: 1

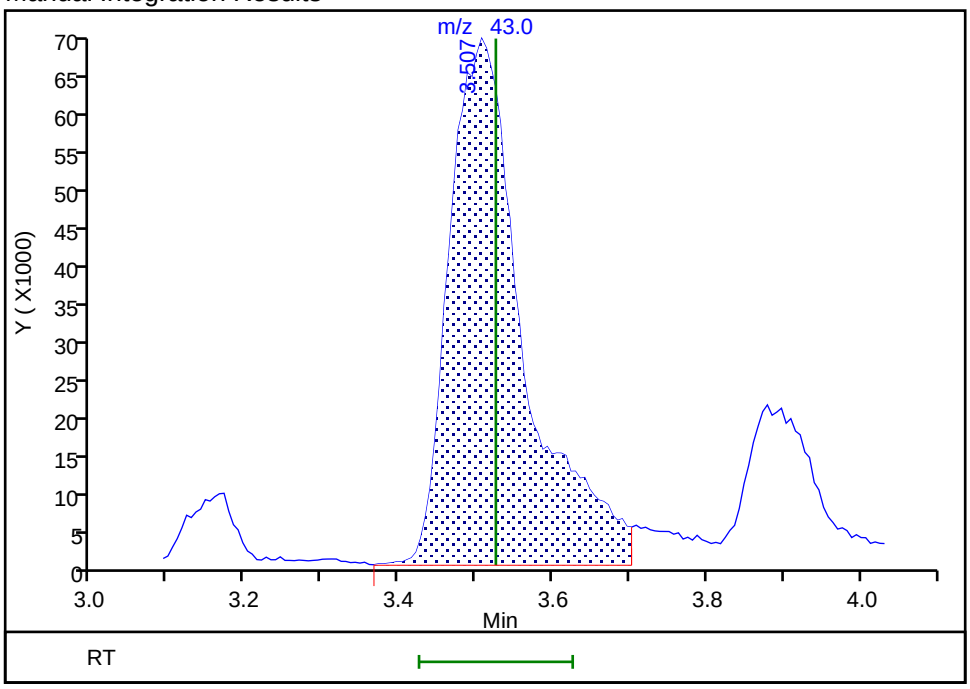
Processing Integration Results

RT: 3.51
Area: 481926
Amount: 62.929762
Amount Units: ug/l



Manual Integration Results

RT: 3.51
Area: 471141
Amount: 64.442672
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:45:39
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

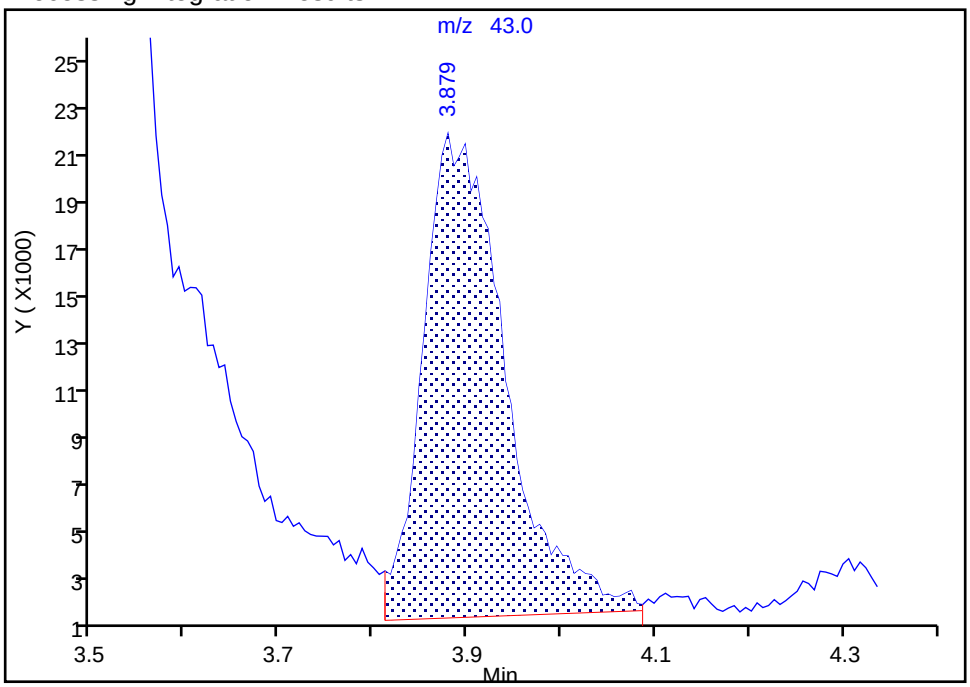
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X18.D				
Injection Date:	11-Jan-2022 00:08:30	Instrument ID:	16334		
Lims ID:	ICV				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

27 Methyl acetate, CAS: 79-20-9

Signal: 1

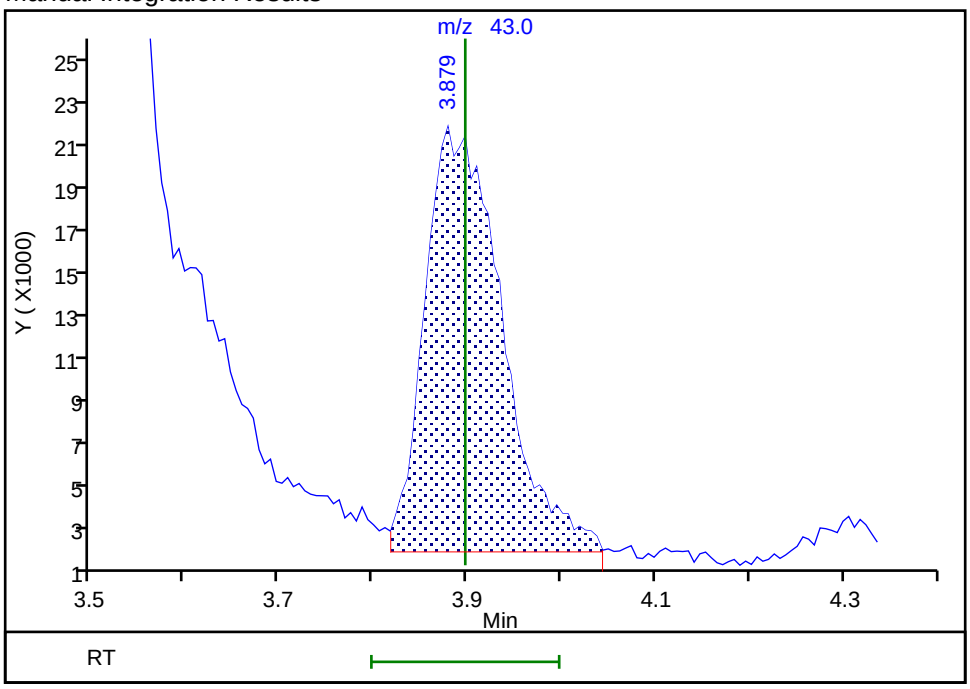
Processing Integration Results

RT: 3.88
Area: 122815
Amount: 5.447163
Amount Units: ug/l



Manual Integration Results

RT: 3.88
Area: 109734
Amount: 5.098085
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:45:54

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

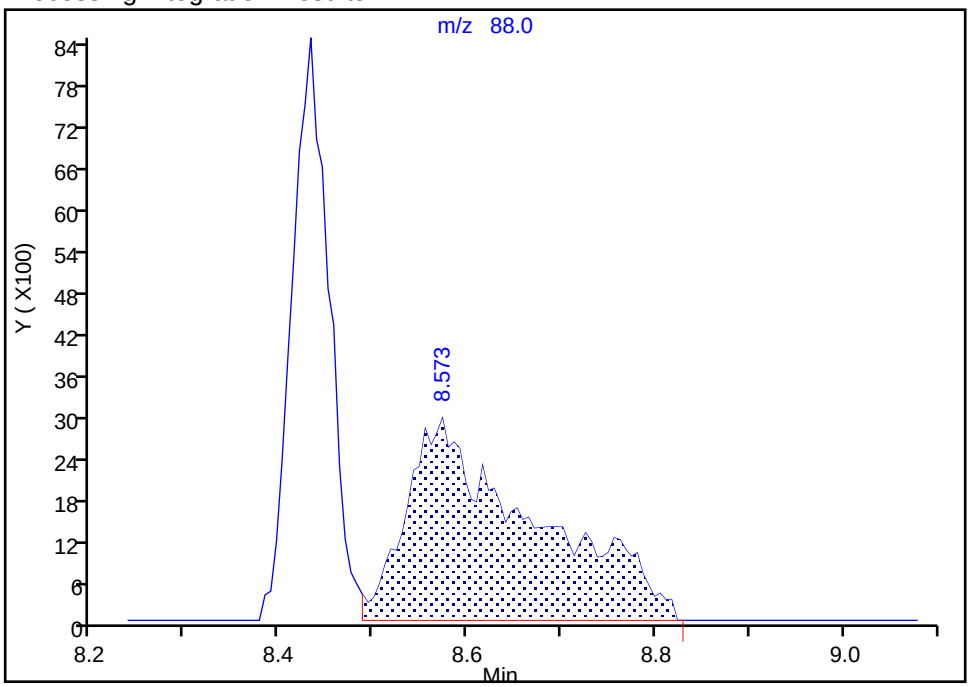
Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X18.D				
Injection Date:	11-Jan-2022 00:08:30	Instrument ID:	16334		
Lims ID:	ICV				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

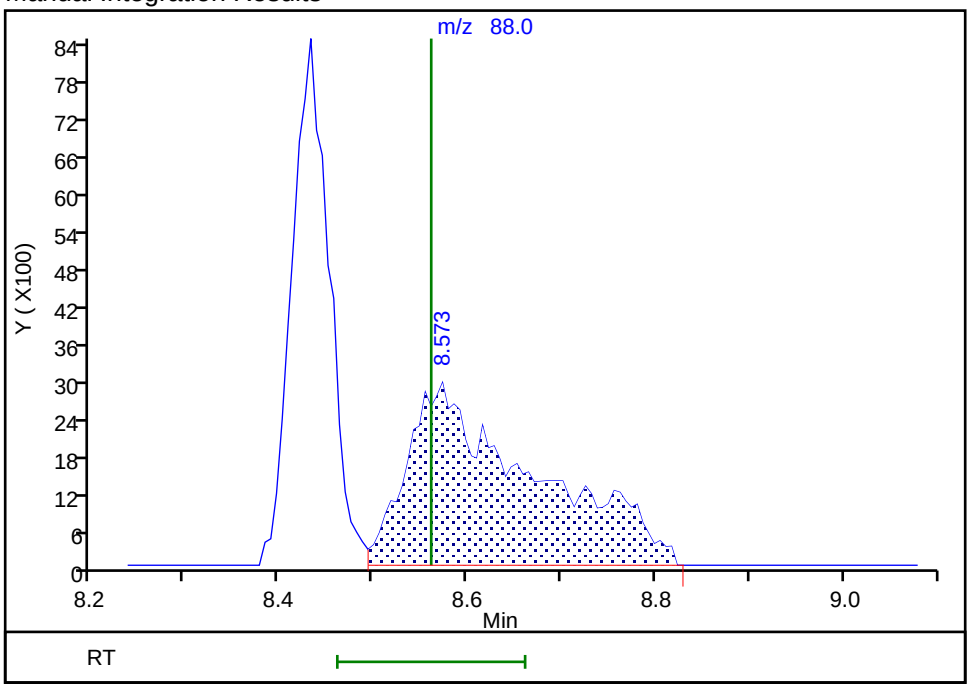
Processing Integration Results

RT: 8.57
Area: 27682
Amount: 138.2899
Amount Units: ug/l



Manual Integration Results

RT: 8.57
Area: 27543
Amount: 137.5955
Amount Units: ug/l



Reviewer: campbellme, 11-Jan-2022 18:46:19

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-88520-1

SDG No.:

Lab Sample ID: CCVIS 410-270125/3 Calibration Date: 06/28/2022 10:22

Instrument ID: 16334 Calib Start Date: 01/10/2022 21:33

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 01/10/2022 23:46

Lab File ID: GU28X02.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	0.2426	0.2366	0.1000	12.2	12.5	-2.5	20.0
Chloromethane	Ave	0.2772	0.2788	0.1000	12.6	12.5	0.6	20.0
Vinyl chloride	Ave	0.2869	0.2943	0.1000	12.8	12.5	2.6	20.0
1,3-Butadiene	Ave	0.2963	0.3639		15.4	12.5	22.8*	20.0
Bromomethane	Ave	0.2111	0.2185	0.1000	12.9	12.5	3.5	20.0
Chloroethane	Ave	0.1707	0.1790	0.1000	13.1	12.5	4.9	20.0
Dichlorofluoromethane	Ave	0.3970	0.4060		12.8	12.5	2.3	20.0
Trichlorofluoromethane	Ave	0.3846	0.3728	0.1000	12.1	12.5	-3.1	20.0
Pentane	None					12.5		20.0
Ethyl ether	Ave	0.1682	0.1980		14.7	12.5	17.8	20.0
Freon 123a	Ave	0.2735	0.2768		12.7	12.5	1.2	20.0
Acrolein	Ave	2.079	2.153		647	625	3.5	20.0
1,1-Dichloroethene	Ave	0.2076	0.1991	0.1000	12.0	12.5	-4.1	20.0
Freon 113	Ave	0.2074	0.1816	0.1000	10.9	12.5	-12.4	20.0
Acetone	Ave	2.298	2.115	0.1000	115	125	-8.0	20.0
Methyl iodide	Ave	0.3611	0.3334		11.5	12.5	-7.7	20.0
Ethyl bromide	Ave	0.1767	0.1771		12.5	12.5	0.3	20.0
Carbon disulfide	Ave	0.5244	0.5693	0.1000	13.6	12.5	8.5	20.0
Methyl acetate	Ave	6.767	5.852	0.1000	10.8	12.5	-13.5	20.0
Allyl chloride	Ave	0.2957	0.2661		11.3	12.5	-10.0	20.0
Methylene Chloride	Ave	0.2239	0.2206	0.1000	12.3	12.5	-1.5	20.0
t-Butyl alcohol	Ave	0.9052	0.5851		162	250	-35.4*	20.0
Acrylonitrile	Ave	3.059	3.276		33.5	31.3	7.1	20.0
Methyl tert-butyl ether	Ave	0.5679	0.5311	0.1000	11.7	12.5	-6.5	20.0
trans-1,2-Dichloroethene	Ave	0.2297	0.2174	0.1000	11.8	12.5	-5.4	20.0
n-Hexane	Ave	0.2935	0.2506		10.7	12.5	-14.6	20.0
1,1-Dichloroethane	Ave	0.3891	0.3813	0.2000	12.3	12.5	-2.0	20.0
di-Isopropyl ether	Ave	0.6734	0.6232		11.6	12.5	-7.5	20.0
2-Chloro-1,3-butadiene	Ave	0.3130	0.2903		11.6	12.5	-7.3	20.0
Ethyl t-butyl ether	Ave	0.6581	0.5951		11.3	12.5	-9.6	20.0
2-Butanone (MEK)	Ave	4.512	4.361	0.1000	121	125	-3.4	20.0
cis-1,2-Dichloroethene	Ave	0.2513	0.2451	0.1000	12.2	12.5	-2.5	20.0
2,2-Dichloropropane	Ave	0.2917	0.3077		13.2	12.5	5.5	20.0
Propionitrile	Ave	1.181	1.183		250	250	0.1	20.0
Methacrylonitrile	Ave	4.356	4.456		128	125	2.3	20.0
Bromochloromethane	Ave	0.1130	0.1179		13.0	12.5	4.4	20.0
Tetrahydrofuran	Ave	1.274	1.301		63.8	62.5	2.1	20.0
Chloroform	Ave	0.3957	0.3949	0.2000	12.5	12.5	-0.2	20.0
1,1,1-Trichloroethane	Ave	0.3382	0.3305	0.1000	12.2	12.5	-2.3	20.0
Cyclohexane	Ave	0.3660	0.3111	0.1000	10.6	12.5	-15.0	20.0
Carbon tetrachloride	Ave	0.2919	0.2931	0.1000	12.6	12.5	0.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-88520-1

SDG No.:

Lab Sample ID: CCVIS 410-270125/3 Calibration Date: 06/28/2022 10:22

Instrument ID: 16334 Calib Start Date: 01/10/2022 21:33

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 01/10/2022 23:46

Lab File ID: GU28X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1-Dichloropropene	Ave	0.3089	0.3009		12.2	12.5	-2.6	20.0
Isobutyl alcohol	Ave	0.0048	0.0046		600	625	-3.9	20.0
Benzene	Ave	0.9294	0.9223	0.5000	12.4	12.5	-0.8	20.0
1,2-Dichloroethane	Ave	0.2520	0.2549	0.1000	12.6	12.5	1.2	20.0
t-Amyl methyl ether	Ave	0.6067	0.5937		12.2	12.5	-2.1	20.0
n-Heptane	Ave	0.3048	0.2685		11.0	12.5	-11.9	20.0
n-Butanol	Ave	0.2969	0.2941		1080	1090	-0.9	20.0
Trichloroethene	Ave	0.2492	0.2479	0.2000	12.4	12.5	-0.5	20.0
Methylcyclohexane	Ave	0.4109	0.3621	0.1000	11.0	12.5	-11.9	20.0
1,2-Dichloropropane	Ave	0.2346	0.2406	0.1000	12.8	12.5	2.6	20.0
Methyl methacrylate	Ave	8.296	8.210		12.4	12.5	-1.0	20.0
Dibromomethane	Ave	0.1186	0.1293		13.6	12.5	9.0	20.0
1,4-Dioxane	Ave	0.0629	0.0556	0.0050	553	625	-11.6	20.0
Bromodichloromethane	Ave	0.2705	0.2931	0.2000	13.5	12.5	8.3	20.0
2-Nitropropane	Ave	1.854	2.205		74.3	62.5	18.9	20.0
1-Bromo-2-chloroethane	Ave	0.2480	0.2778		14.0	12.5	12.0	20.0
cis-1,3-Dichloropropene	Ave	0.3397	0.3634	0.2000	13.4	12.5	7.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	10.94	11.16	0.1000	128	125	2.1	20.0
Toluene	Ave	0.7965	0.7684	0.4000	12.1	12.5	-3.5	20.0
trans-1,3-Dichloropropene	Ave	0.3680	0.4053	0.1000	13.8	12.5	10.1	20.0
Ethyl methacrylate	Ave	0.3305	0.3452		13.1	12.5	4.4	20.0
1,1,2-Trichloroethane	Ave	0.2335	0.2476	0.1000	13.3	12.5	6.0	20.0
Tetrachloroethene	Ave	0.3707	0.3630	0.2000	12.2	12.5	-2.1	20.0
1,3-Dichloropropane	Ave	0.3951	0.4149		13.1	12.5	5.0	20.0
2-Hexanone	Ave	7.863	8.180	0.1000	130	125	4.0	20.0
Dibromochloromethane	Ave	0.2628	0.3030		14.4	12.5	15.3	20.0
1,2-Dibromoethane (EDB)	Ave	0.2251	0.2399	0.1000	13.3	12.5	6.6	20.0
1-Chlorohexane	Ave	0.4554	0.4191		11.5	12.5	-8.0	20.0
Chlorobenzene	Ave	0.9254	0.9332	0.5000	12.6	12.5	0.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3073	0.3252		13.2	12.5	5.8	20.0
Ethylbenzene	Ave	1.555	1.517	0.1000	12.2	12.5	-2.4	20.0
m&p-Xylene	Ave	0.5995	0.6077	0.1000	25.3	25.0	1.4	20.0
o-Xylene	Ave	0.5964	0.5922	0.3000	12.4	12.5	-0.7	20.0
Styrene	Ave	1.009	1.018	0.3000	12.6	12.5	0.9	20.0
Bromoform	Ave	0.1567	0.1874	0.1000	14.9	12.5	19.6	20.0
Isopropylbenzene	Ave	1.534	1.486	0.1000	12.1	12.5	-3.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5528	0.5724	0.3000	12.9	12.5	3.5	20.0
Bromobenzene	Ave	0.6975	0.6666		11.9	12.5	-4.4	20.0
trans-1,4-Dichloro-2-butene	Ave	3.685	3.447		117	125	-6.5	20.0
1,2,3-Trichloropropane	Ave	0.1467	0.1519		12.9	12.5	3.6	20.0
N-Propylbenzene	Ave	3.298	3.070		11.6	12.5	-6.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-88520-1

SDG No.:

Lab Sample ID: CCVIS 410-270125/3 Calibration Date: 06/28/2022 10:22

Instrument ID: 16334 Calib Start Date: 01/10/2022 21:33

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 01/10/2022 23:46

Lab File ID: GU28X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.6856	0.6413		11.7	12.5	-6.5	20.0
1,3,5-Trimethylbenzene	Ave	2.355	2.209		11.7	12.5	-6.2	20.0
4-Chlorotoluene	Ave	0.7107	0.6813		12.0	12.5	-4.1	20.0
tert-Butylbenzene	Ave	0.5309	0.4730		11.1	12.5	-10.9	20.0
Pentachloroethane	Ave	0.4069	0.4375		13.4	12.5	7.5	20.0
1,2,4-Trimethylbenzene	Ave	2.435	2.342		12.0	12.5	-3.8	20.0
sec-Butylbenzene	Ave	3.001	2.724		11.3	12.5	-9.2	20.0
1,3-Dichlorobenzene	Ave	1.418	1.354	0.6000	11.9	12.5	-4.5	20.0
p-Isopropyltoluene	Ave	2.684	2.456		11.4	12.5	-8.5	20.0
1,4-Dichlorobenzene	Ave	1.453	1.393	0.5000	12.0	12.5	-4.1	20.0
1,2,3-Trimethylbenzene	Ave	1.112	1.031		11.6	12.5	-7.3	20.0
Benzyl chloride	Lin2		0.2312		14.6	12.5	16.4	20.0
n-Butylbenzene	Ave	1.366	1.226		11.2	12.5	-10.2	20.0
1,2-Dichlorobenzene	Ave	1.343	1.272	0.4000	11.8	12.5	-5.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0803	0.0826	0.0500	12.8	12.5	2.8	20.0
1,3,5-Trichlorobenzene	Ave	1.149	0.9759		10.6	12.5	-15.1	20.0
1,2,4-Trichlorobenzene	Ave	1.035	0.8593	0.2000	10.4	12.5	-17.0	20.0
Hexachlorobutadiene	Ave	0.5341	0.4249		9.94	12.5	-20.4*	20.0
Naphthalene	Ave	1.825	1.588		10.9	12.5	-13.0	20.0
1,2,3-Trichlorobenzene	Ave	0.9023	0.7321		10.1	12.5	-18.9	20.0
Dibromofluoromethane (Surr)	Ave	0.2400	0.2481		10.3	10.0	3.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0507	0.0535		10.6	10.0	5.5	20.0
Toluene-d8 (Surr)	Ave	1.280	1.303		10.2	10.0	1.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4832	0.4788		9.91	10.0	-0.9	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X02.D
Lims ID: CCVIS VSTD12.5
Client ID:
Sample Type: CCVIS
Inject. Date: 28-Jun-2022 10:22:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060580-003
Misc. Info.: CCVIS VSTD12.5
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Jun-2022 12:13:26 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1640

First Level Reviewer: DVW2 Date: 28-Jun-2022 11:12:14

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
	2 Dichlorodifluoromethane	85	1.928	1.928	0.000	99	645763	12.5	12.2	
	5 Chloromethane	50	2.123	2.123	0.000	99	760975	12.5	12.6	
	8 Vinyl chloride	62	2.233	2.233	0.000	98	803074	12.5	12.8	
	7 Butadiene	39	2.239	2.239	0.000	91	993065	12.5	15.4	
	9 Bromomethane	94	2.562	2.562	0.000	90	596446	12.5	12.9	
	10 Chloroethane	64	2.641	2.641	0.000	100	488432	12.5	13.1	
	12 Dichlorofluoromethane	67	2.879	2.879	0.000	97	1107957	12.5	12.8	
	13 Trichlorofluoromethane	101	2.928	2.928	0.000	96	1017428	12.5	12.1	
	15 Ethyl ether	59	3.172	3.172	0.000	91	540629	12.5	14.7	
	17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.263	3.263	0.000	91	755320	12.5	12.7	
	18 Acrolein	56	3.349	3.349	0.000	100	4669966	625.0	647.1	
	19 1,1-Dichloroethene	96	3.471	3.471	0.000	97	543482	12.5	12.0	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.513	3.513	0.000	92	495674	12.5	10.9	
	21 Acetone	43	3.532	3.532	0.000	100	917427	125.0	115.0	
	23 Iodomethane	142	3.666	3.666	0.000	98	909783	12.5	11.5	
	24 Ethyl bromide	108	3.690	3.690	0.000	98	483274	12.5	12.5	
	22 Isopropyl alcohol	45	3.745	3.745	0.000	96	320195	250.0	210.8	M
	25 Carbon disulfide	76	3.763	3.763	0.000	99	1553616	12.5	13.6	
	27 Methyl acetate	43	3.922	3.922	0.000	97	253871	12.5	10.8	
	28 3-Chloro-1-propene	41	3.940	3.940	0.000	92	726358	12.5	11.3	
	29 Methylene Chloride	84	4.123	4.123	0.000	89	602005	12.5	12.3	
*	30 t-Butyl alcohol-d10 (IS)	65	4.190	4.190	0.000	79	173538	50.0	50.0	
	31 2-Methyl-2-propanol	59	4.324	4.324	0.000	99	507645	250.0	161.6	
	32 Acrylonitrile	53	4.476	4.476	0.000	99	355359	31.3	33.5	
	33 Methyl tert-butyl ether	73	4.525	4.525	0.000	95	1449428	12.5	11.7	
	34 trans-1,2-Dichloroethene	96	4.525	4.525	0.000	99	593384	12.5	11.8	
	35 Hexane	57	4.958	4.958	0.000	90	683932	12.5	10.7	
	37 1,1-Dichloroethane	63	5.190	5.190	0.000	96	1040751	12.5	12.3	
	38 Isopropyl ether	45	5.257	5.257	0.000	94	1700868	12.5	11.6	
	39 2-Chloro-1,3-butadiene	53	5.306	5.306	0.000	89	792287	12.5	11.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.793	5.793	0.000	97	1624026	12.5	11.3	
41 2-Butanone (MEK)	43	6.001	6.001	0.000	99	1892096	125.0	120.8	
42 cis-1,2-Dichloroethene	96	6.031	6.031	0.000	80	668949	12.5	12.2	
43 2,2-Dichloropropane	77	6.037	6.037	0.000	85	839891	12.5	13.2	
45 Propionitrile	54	6.092	6.092	0.000	99	1026266	250.0	250.3	
48 Methacrylonitrile	67	6.299	6.299	0.000	89	1933223	125.0	127.9	
49 Chlorobromomethane	128	6.360	6.360	0.000	89	321765	12.5	13.0	
50 Tetrahydrofuran	71	6.360	6.360	0.000	71	282148	62.5	63.8	
51 Chloroform	83	6.513	6.513	0.000	92	1077831	12.5	12.5	
$ 52 Dibromofluoromethane (Surr)	113	6.726	6.726	0.000	93	541715	10.0	10.3	
53 1,1,1-Trichloroethane	97	6.738	6.738	0.000	98	902119	12.5	12.2	
54 Cyclohexane	56	6.830	6.830	0.000	88	848965	12.5	10.6	
56 Carbon tetrachloride	117	6.939	6.939	0.000	98	799998	12.5	12.6	
57 1,1-Dichloropropene	75	6.945	6.945	0.000	98	821209	12.5	12.2	
58 Isobutyl alcohol	41	7.141	7.141	0.000	93	626354	625.0	600.5	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.177	0.000	91	116862	10.0	10.6	
60 Benzene	78	7.208	7.208	0.000	96	2517184	12.5	12.4	
61 1,2-Dichloroethane	62	7.281	7.281	0.000	98	695732	12.5	12.6	
63 Tert-amyl methyl ether	73	7.403	7.403	0.000	99	1620369	12.5	12.2	
* 64 Fluorobenzene (IS)	96	7.616	7.616	0.000	99	2183351	10.0	10.0	
65 n-Heptane	43	7.628	7.628	0.000	91	732701	12.5	11.0	
67 n-Butanol	56	8.025	8.025	0.000	87	1116469	1093.8	1083.6	
68 Trichloroethene	95	8.092	8.092	0.000	97	676629	12.5	12.4	
69 Methylcyclohexane	83	8.396	8.396	0.000	92	988290	12.5	11.0	
70 1,2-Dichloropropane	63	8.427	8.427	0.000	94	656716	12.5	12.8	
71 2-ethoxy-2-methyl butane	87	8.439	8.439	0.000	95	942184	12.5	12.6	
72 Methyl methacrylate	69	8.512	8.512	0.000	87	356183	12.5	12.4	
74 Dibromomethane	93	8.531	8.531	0.000	94	352913	12.5	13.6	
73 1,4-Dioxane	88	8.561	8.561	0.000	86	120683	625.0	552.5	
76 Dichlorobromomethane	83	8.774	8.774	0.000	99	799852	12.5	13.5	
77 2-Nitropropane	41	9.049	9.049	0.000	99	478375	62.5	74.3	
80 1-Bromo-2-chloroethane	63	9.158	9.158	0.000	98	758132	12.5	14.0	
81 cis-1,3-Dichloropropene	75	9.323	9.323	0.000	97	991847	12.5	13.4	
82 4-Methyl-2-pentanone (MIBK)	43	9.500	9.500	0.000	95	4843358	125.0	127.6	
$ 83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	2221452	10.0	10.2	
84 Toluene	92	9.707	9.707	0.000	98	1638164	12.5	12.1	
96 trans-1,3-Dichloropropene	75	9.969	9.969	0.000	90	864086	12.5	13.8	
98 Ethyl methacrylate	69	10.036	10.036	0.000	88	735841	12.5	13.1	
99 1,1,2-Trichloroethane	97	10.177	10.177	0.000	90	527742	12.5	13.3	
100 Tetrachloroethene	166	10.262	10.262	0.000	97	773749	12.5	12.2	
101 1,3-Dichloropropane	76	10.341	10.341	0.000	87	884499	12.5	13.1	
102 2-Hexanone	43	10.396	10.396	0.000	97	3548859	125.0	130.0	
104 Chlorodibromomethane	129	10.555	10.555	0.000	89	645963	12.5	14.4	
105 Ethylene Dibromide	107	10.664	10.664	0.000	99	511458	12.5	13.3	
* 106 Chlorobenzene-d5 (IS)	117	11.097	11.097	0.000	84	1705434	10.0	10.0	
107 1-Chlorohexane	91	11.109	11.109	0.000	95	893463	12.5	11.5	
108 Chlorobenzene	112	11.122	11.122	0.000	96	1989343	12.5	12.6	
110 1,1,1,2-Tetrachloroethane	131	11.207	11.207	0.000	96	693284	12.5	13.2	
111 Ethylbenzene	91	11.213	11.213	0.000	98	3234827	12.5	12.2	
112 m-Xylene & p-Xylene	106	11.323	11.323	0.000	100	2591043	25.0	25.3	
113 o-Xylene	106	11.652	11.652	0.000	96	1262484	12.5	12.4	
114 Styrene	104	11.670	11.670	0.000	94	2170695	12.5	12.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Bromoform	173	11.829	11.829	0.000	97	399414	12.5	14.9	
116 Isopropylbenzene	105	11.957	11.957	0.000	95	3167194	12.5	12.1	
$ 119 4-Bromofluorobenzene (Surr)	95	12.097	12.097	0.000	93	816629	10.0	9.91	
120 1,1,2,2-Tetrachloroethane	83	12.201	12.201	0.000	93	727221	12.5	12.9	
121 Bromobenzene	156	12.213	12.213	0.000	93	846939	12.5	11.9	
122 trans-1,4-Dichloro-2-butene	53	12.225	12.225	0.000	91	1495327	125.0	116.9	
123 1,2,3-Trichloropropane	110	12.243	12.243	0.000	78	192999	12.5	12.9	
124 N-Propylbenzene	91	12.280	12.280	0.000	98	3900231	12.5	11.6	
125 2-Chlorotoluene	126	12.359	12.359	0.000	97	814698	12.5	11.7	
126 1,3,5-Trimethylbenzene	105	12.420	12.420	0.000	94	2806511	12.5	11.7	
127 4-Chlorotoluene	126	12.451	12.451	0.000	97	865552	12.5	12.0	
128 tert-Butylbenzene	134	12.658	12.658	0.000	92	600916	12.5	11.1	
129 Pentachloroethane	167	12.688	12.688	0.000	91	555864	12.5	13.4	
130 1,2,4-Trimethylbenzene	105	12.700	12.700	0.000	96	2974851	12.5	12.0	
131 sec-Butylbenzene	105	12.822	12.822	0.000	94	3461031	12.5	11.3	
132 1,3-Dichlorobenzene	146	12.920	12.920	0.000	98	1720300	12.5	11.9	
133 4-Isopropyltoluene	119	12.926	12.926	0.000	97	3120025	12.5	11.4	
* 134 1,4-Dichlorobenzene-d4	152	12.975	12.975	0.000	93	1016359	10.0	10.0	
135 1,4-Dichlorobenzene	146	12.993	12.993	0.000	95	1769942	12.5	12.0	
136 1,2,3-Trimethylbenzene	120	13.005	13.005	0.000	98	1310375	12.5	11.6	
137 Benzyl chloride	126	13.072	13.072	0.000	98	293787	12.5	14.6	
138 p-Diethylbenzene	119	13.127	13.127	0.000	92	1861275	12.5	11.5	
139 n-Butylbenzene	92	13.219	13.219	0.000	96	1557996	12.5	11.2	
140 1,2-Dichlorobenzene	146	13.249	13.249	0.000	99	1616083	12.5	11.8	
142 1,2-Dibromo-3-Chloropropane	155	13.792	13.792	0.000	89	104904	12.5	12.8	
143 1,3,5-Trichlorobenzene	180	13.914	13.914	0.000	98	1239796	12.5	10.6	
144 1,2,4-Trichlorobenzene	180	14.334	14.334	0.000	94	1091732	12.5	10.4	
145 Hexachlorobutadiene	225	14.414	14.414	0.000	96	539752	12.5	9.94	
146 Naphthalene	128	14.511	14.511	0.000	97	2016940	12.5	10.9	
147 1,2,3-Trichlorobenzene	180	14.651	14.651	0.000	96	930054	12.5	10.1	
148 2-Methylnaphthalene	142	15.261	15.261	0.000	92	783223	12.5	7.53	
160 Pentane	43	2.971	2.971	0.000	97	737609	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#2_826_00051	Amount Added: 25.00	Units: uL	
MSV_LL_#1_826_00047	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00098	Amount Added: 25.00	Units: uL	
MSV_29_826ISS_00034	Amount Added: 1.00	Units: uL	Run Reagent

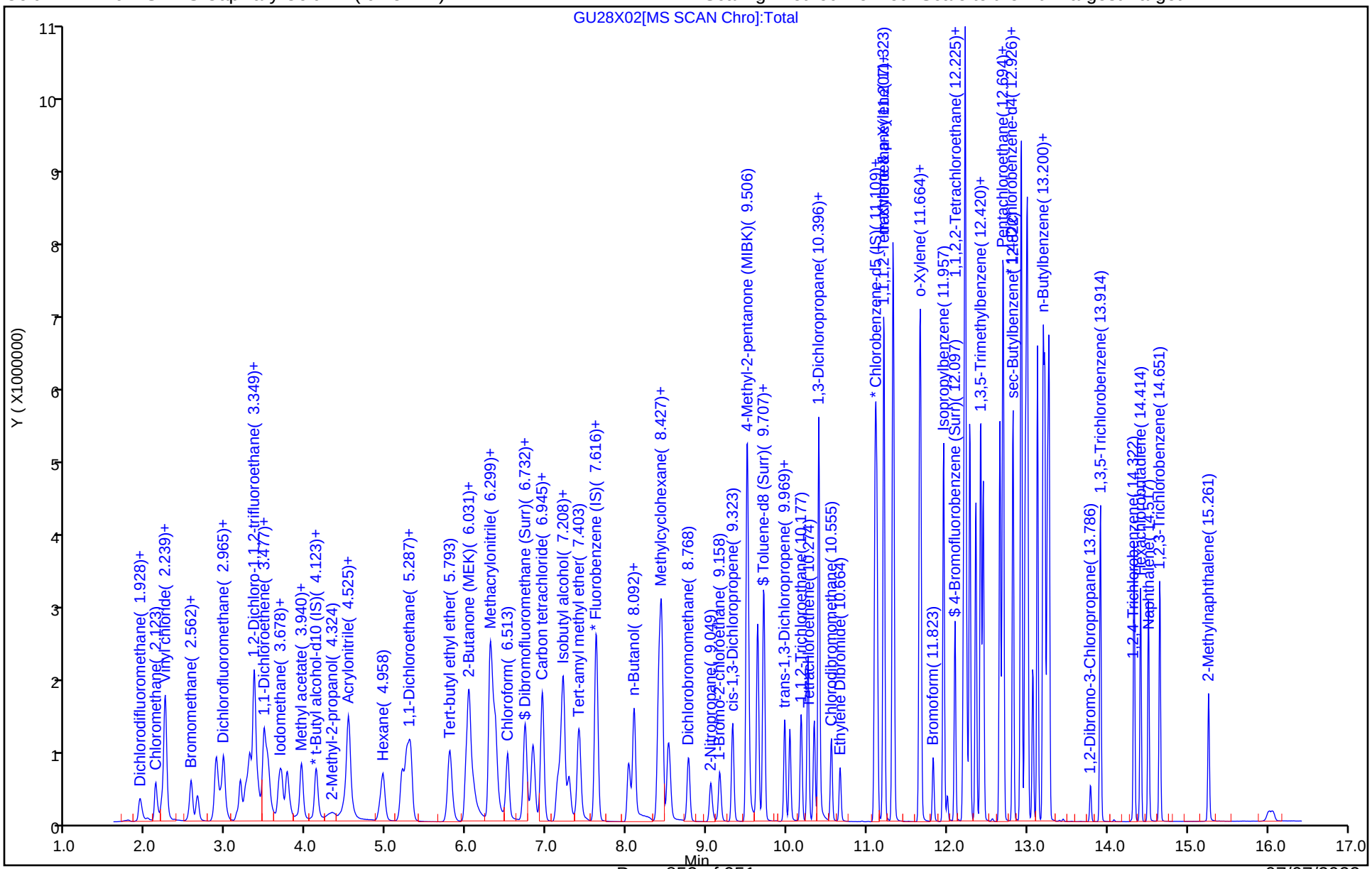
Report Date: 28-Jun-2022 12:13:26 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X02.D

Injection Date:	28-Jun-2022 10:22:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	CCVIS VSTD12.5			Worklist Smp#:	3
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-88520-1

SDG No.:

Lab Sample ID: ICV 410-233459/19 Calibration Date: 03/15/2022 03:43

Instrument ID: 19930 Calib Start Date: 03/15/2022 01:15

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/15/2022 03:22

Lab File ID: IM14V01.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	0.3731	0.3868	0.1000	5.18	5.00	3.7	30.0
Chloromethane	Ave	0.3846	0.4119	0.1000	5.36	5.00	7.1	30.0
1,3-Butadiene	Ave	0.3972	0.3596		4.53	5.00	-9.5	30.0
Vinyl chloride	Ave	0.4063	0.4167	0.1000	5.13	5.00	2.6	30.0
Bromomethane	Ave	0.3364	0.3496	0.1000	5.20	5.00	3.9	30.0
Chloroethane	Ave	0.2471	0.2666	0.1000	5.39	5.00	7.9	30.0
Dichlorofluoromethane	Ave	0.6215	0.6867		5.52	5.00	10.5	30.0
Trichlorofluoromethane	Ave	0.6039	0.6244	0.1000	5.17	5.00	3.4	30.0
Ethyl ether	Ave	0.1668	0.1983		5.91	4.97	18.9	30.0
Freon 123a	Ave	0.3469	0.3579		5.16	5.00	3.2	30.0
Acrolein	Ave	2.007	1.763		32.9	37.5	-12.2	30.0
1,1-Dichloroethene	Ave	0.2623	0.2973	0.1000	5.67	5.00	13.3	30.0
Acetone	Ave	2.712	2.153	0.1000	49.6	62.5	-20.6	30.0
Freon 113	Ave	0.2754	0.3084	0.1000	5.60	5.00	12.0	30.0
Methyl iodide	Ave	0.5377	0.6268		5.83	5.00	16.6	30.0
Ethyl bromide	Ave	0.2505	0.2357		4.70	4.99	-5.9	30.0
Carbon disulfide	Ave	0.5882	0.7190	0.1000	6.11	5.00	22.2	30.0
Methyl acetate	Lin		6.030	0.1000	4.52	5.00	-9.6	30.0
Allyl chloride	Ave	0.3717	0.4119		5.54	5.00	10.8	30.0
Methylene Chloride	Ave	0.2743	0.2827	0.1000	5.15	5.00	3.1	30.0
t-Butyl alcohol	Ave	1.001	1.005		50.2	50.0	0.4	30.0
Acrylonitrile	Ave	3.192	3.006		23.5	25.0	-5.8	30.0
Methyl tertiary butyl ether	Ave	0.6851	0.6992	0.1000	5.10	5.00	2.1	30.0
trans-1,2-Dichloroethene	Ave	0.2975	0.3144	0.1000	5.28	5.00	5.7	30.0
n-Hexane	Ave	0.3607	0.3601		4.99	5.00	-0.2	30.0
1,1-Dichloroethane	Ave	0.5092	0.5256	0.2000	5.16	5.00	3.2	30.0
di-Isopropyl ether	Ave	0.7950	0.8073		5.08	5.00	1.5	30.0
2-Chloro-1,3-butadiene	Ave	0.4147	0.4667		5.63	5.00	12.5	30.0
Ethyl t-butyl ether	Ave	0.8093	0.8163		5.04	5.00	0.9	30.0
2-Butanone	Ave	4.701	4.063	0.1000	54.0	62.5	-13.6	30.0
cis-1,2-Dichloroethene	Ave	0.3399	0.3487	0.1000	5.13	5.00	2.6	30.0
2,2-Dichloropropane	Ave	0.4723	0.5134		5.44	5.00	8.7	30.0
Propionitrile	Ave	1.204	1.141		35.5	37.5	-5.2	30.0
Methacrylonitrile	Ave	4.811	4.140		32.3	37.5	-13.9	30.0
Bromochloromethane	Ave	0.1559	0.1579		5.06	5.00	1.3	30.0
Tetrahydrofuran	Ave	1.330	1.253		23.6	25.0	-5.8	30.0
Chloroform	Ave	0.5483	0.5589	0.2000	5.10	5.00	1.9	30.0
1,1,1-Trichloroethane	Ave	0.5319	0.5591	0.1000	5.26	5.00	5.1	30.0
Cyclohexane	Ave	0.4471	0.4575	0.1000	5.12	5.00	2.3	30.0
1,1-Dichloropropene	Ave	0.4103	0.4378		5.34	5.00	6.7	30.0
Carbon tetrachloride	Ave	0.4919	0.5169	0.1000	5.25	5.00	5.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-88520-1

SDG No.:

Lab Sample ID: ICV 410-233459/19 Calibration Date: 03/15/2022 03:43

Instrument ID: 19930 Calib Start Date: 03/15/2022 01:15

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/15/2022 03:22

Lab File ID: IM14V01.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	0.3377	0.2997		111	125	-11.2	30.0
Benzene	Ave	1.178	1.245	0.5000	5.28	5.00	5.7	30.0
1,2-Dichloroethane	Ave	0.3285	0.3232	0.1000	4.92	5.00	-1.6	30.0
t-Amyl methyl ether	Ave	0.7552	0.7502		4.97	5.00	-0.7	30.0
n-Heptane	Ave	0.3853	0.3523		4.57	5.00	-8.6	30.0
n-Butanol	Ave	0.2671	0.2605		244	250	-2.5	30.0
Trichloroethene	Ave	0.3385	0.3552	0.2000	5.25	5.00	4.9	30.0
Methylcyclohexane	Ave	0.5399	0.5327	0.1000	4.93	5.00	-1.3	30.0
1,2-Dichloropropane	Ave	0.2824	0.2888	0.1000	5.11	5.00	2.3	30.0
Methyl methacrylate	Ave	9.116	7.928		4.35	5.00	-13.0	30.0
1,4-Dioxane	Ave	0.0688	0.0665	0.0050	121	125	-3.4	30.0
Dibromomethane	Ave	0.1563	0.1513		4.84	5.00	-3.2	30.0
Bromodichloromethane	Ave	0.3729	0.3791	0.2000	5.08	5.00	1.7	30.0
2-Nitropropane	Ave	2.832	2.162		3.82	5.00	-23.7	30.0
1-Bromo-2-chloroethane	Ave	0.2672	0.2650		4.96	5.00	-0.8	30.0
cis-1,3-Dichloropropene	Ave	0.4391	0.4306	0.2000	4.90	5.00	-1.9	30.0
4-Methyl-2-pentanone	Ave	12.43	10.66	0.1000	53.6	62.5	-14.3	30.0
Toluene	Ave	0.9434	0.9707	0.4000	5.14	5.00	2.9	30.0
trans-1,3-Dichloropropene	Ave	0.4237	0.4340	0.1000	5.12	5.00	2.4	30.0
Ethyl methacrylate	Ave	0.3286	0.3487		5.31	5.00	6.1	30.0
1,1,2-Trichloroethane	Ave	0.2585	0.2547	0.1000	4.93	5.00	-1.5	30.0
Tetrachloroethene	Ave	0.5425	0.5722	0.2000	5.27	5.00	5.5	30.0
1,3-Dichloropropane	Ave	0.4157	0.4103		4.94	5.00	-1.3	30.0
2-Hexanone	Ave	8.351	7.519	0.1000	56.3	62.5	-10.0	30.0
Dibromochloromethane	Ave	0.3508	0.3511		5.01	5.00	0.1	30.0
1,2-Dibromoethane	Ave	0.2510	0.2475	0.1000	4.93	5.00	-1.4	30.0
1-Chlorohexane	Ave	0.5715	0.5576		4.88	5.00	-2.4	30.0
Chlorobenzene	Ave	1.117	1.144	0.5000	5.13	5.00	2.5	30.0
1,1,1,2-Tetrachloroethane	Ave	0.4123	0.4225		5.12	5.00	2.5	30.0
Ethylbenzene	Ave	1.867	1.938	0.1000	5.19	5.00	3.8	30.0
m&p-Xylene	Ave	0.7645	0.7974	0.1000	10.4	10.0	4.3	30.0
o-Xylene	Ave	0.7524	0.7708	0.3000	5.12	5.00	2.4	30.0
Styrene	Ave	1.172	1.184	0.3000	5.06	5.00	1.1	30.0
Bromoform	Ave	0.2160	0.2183	0.1000	5.05	5.00	1.0	30.0
Isopropylbenzene	Ave	1.964	2.085	0.1000	5.31	5.00	6.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5291	0.5164	0.3000	4.88	5.00	-2.4	30.0
Bromobenzene	Ave	0.8414	0.8458		5.03	5.00	0.5	30.0
trans-1,4-Dichloro-2-butene	Ave	4.486	3.765		21.0	25.0	-16.1	30.0
1,2,3-Trichloropropane	Ave	0.1566	0.1565		5.00	5.00	-0.0	30.0
N-Propylbenzene	Ave	3.670	3.776		5.14	5.00	2.9	30.0
2-Chlorotoluene	Ave	0.8070	0.8289		5.14	5.00	2.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-88520-1

SDG No.:

Lab Sample ID: ICV 410-233459/19 Calibration Date: 03/15/2022 03:43

Instrument ID: 19930 Calib Start Date: 03/15/2022 01:15

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/15/2022 03:22

Lab File ID: IM14V01.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	2.716	2.801		5.16	5.00	3.1	30.0
4-Chlorotoluene	Ave	0.8245	0.8343		5.06	5.00	1.2	30.0
tert-Butylbenzene	Ave	0.6545	0.6660		5.09	5.00	1.8	30.0
Pentachloroethane	Ave	0.5376	0.5377		5.00	5.00	0.0	30.0
1,2,4-Trimethylbenzene	Ave	2.739	2.791		5.09	5.00	1.9	30.0
sec-Butylbenzene	Ave	3.467	3.548		5.12	5.00	2.4	30.0
1,3-Dichlorobenzene	Ave	1.638	1.614	0.6000	4.93	5.00	-1.5	30.0
p-Isopropyltoluene	Ave	3.120	3.151		5.05	5.00	1.0	30.0
1,4-Dichlorobenzene	Ave	1.674	1.609	0.5000	4.81	5.00	-3.9	30.0
1,2,3-Trimethylbenzene	Ave	1.265	1.259		4.97	5.00	-0.5	30.0
Benzyl chloride	Ave	0.2140	0.2147		5.02	5.00	0.3	30.0
n-Butylbenzene	Ave	1.385	1.370		4.95	5.00	-1.1	30.0
1,2-Dichlorobenzene	Ave	1.493	1.467	0.4000	4.91	5.00	-1.8	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0846	0.0855	0.0500	5.05	5.00	1.0	30.0
1,3,5-Trichlorobenzene	Ave	1.224	1.204		4.92	5.00	-1.6	30.0
1,2,4-Trichlorobenzene	Ave	1.031	0.9849	0.2000	4.78	5.00	-4.5	30.0
Hexachlorobutadiene	Ave	0.4676	0.4272		4.57	5.00	-8.6	30.0
Naphthalene	Ave	1.764	1.678		4.76	5.00	-4.9	30.0
1,2,3-Trichlorobenzene	Ave	0.9029	0.8252		4.57	5.00	-8.6	30.0
Dibromofluoromethane (Surr)	Ave	0.2707	0.2738		10.1	10.0	1.1	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0482	0.0489		10.1	10.0	1.5	30.0
Toluene-d8 (Surr)	Ave	1.217	1.212		9.96	10.0	-0.4	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4719	0.4666		9.89	10.0	-1.1	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14V01.D
Lims ID: ICV LG
Client ID:
Sample Type: ICV
Inject. Date: 15-Mar-2022 03:43:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052441-019
Misc. Info.: ICV LG
Operator ID: mec29284 Instrument ID: 19930
Sublist:

Method: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 16-Mar-2022 10:12:27 Calib Date: 15-Mar-2022 03:22:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1676

First Level Reviewer: kephartk Date: 16-Mar-2022 09:28:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.953	1.953	0.000	99	391626	5.00	5.18	
4 Chloromethane	50	2.148	2.142	0.006	99	417083	5.00	5.36	
5 Vinyl chloride	62	2.264	2.264	0.000	98	421931	5.00	5.13	
6 Butadiene	39	2.264	2.264	0.000	92	364080	5.00	4.53	
7 Bromomethane	94	2.593	2.599	-0.006	91	353983	5.00	5.20	
8 Chloroethane	64	2.672	2.678	-0.006	100	269930	5.00	5.39	
9 Dichlorofluoromethane	67	2.916	2.916	0.000	97	695272	5.00	5.52	
10 Trichlorofluoromethane	101	2.928	2.928	0.000	96	632229	5.00	5.17	
11 Ethyl ether	59	3.239	3.233	0.006	90	199646	4.97	5.91	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.306	3.312	-0.006	90	362421	5.00	5.16	
13 Acrolein	56	3.404	3.404	0.000	99	228413	37.5	32.9	M
14 1,1-Dichloroethene	96	3.544	3.544	0.000	97	300976	5.00	5.67	
15 Acetone	43	3.574	3.580	-0.006	100	464976	62.5	49.6	
16 112TCTFE	101	3.580	3.580	0.000	87	312269	5.00	5.60	
17 Iodomethane	142	3.739	3.739	0.000	99	634607	5.00	5.83	
18 Ethyl bromide	108	3.769	3.769	0.000	98	238211	4.99	4.70	
19 Carbon disulfide	76	3.849	3.849	0.000	99	727940	5.00	6.11	
21 Methyl acetate	43	4.001	4.007	-0.006	97	104171	5.00	4.52	M
22 3-Chloro-1-propene	41	4.019	4.025	-0.006	89	417022	5.00	5.54	
23 Methylene Chloride	84	4.208	4.214	-0.006	89	286197	5.00	5.15	
* 24 t-Butyl alcohol-d10 (IS)	65	4.221	4.214	0.007	96	172755	50.0	50.0	M
25 2-Methyl-2-propanol	59	4.361	4.342	0.019	98	173676	50.0	50.2	
26 Acrylonitrile	53	4.550	4.562	-0.012	99	259613	25.0	23.5	
27 Methyl tert-butyl ether	73	4.623	4.617	0.006	88	707946	5.00	5.10	
28 trans-1,2-Dichloroethene	96	4.629	4.629	0.000	97	318354	5.00	5.28	
29 Hexane	57	5.056	5.056	0.000	93	364605	5.00	4.99	
31 1,1-Dichloroethane	63	5.287	5.287	0.000	96	532140	5.00	5.16	
32 Isopropyl ether	45	5.348	5.354	-0.006	92	817397	5.00	5.08	
33 2-Chloro-1,3-butadiene	53	5.397	5.403	-0.006	91	472535	5.00	5.63	
34 Tert-butyl ethyl ether	59	5.879	5.879	0.000	96	826518	5.00	5.04	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.074	6.080	-0.006	99	877328	62.5	54.0	
37 cis-1,2-Dichloroethene	96	6.117	6.123	-0.006	81	353042	5.00	5.13	
38 2,2-Dichloropropane	77	6.129	6.135	-0.006	90	519821	5.00	5.44	
40 Propionitrile	54	6.171	6.177	-0.006	97	147842	37.5	35.5	
42 Methacrylonitrile	67	6.385	6.379	0.006	90	536438	37.5	32.3	
43 Chlorobromomethane	128	6.446	6.446	0.000	86	159843	5.00	5.06	
44 Tetrahydrofuran	71	6.458	6.458	0.000	77	108236	25.0	23.6	
45 Chloroform	83	6.604	6.604	0.000	93	565843	5.00	5.10	
$ 46 Dibromofluoromethane (Surr)	113	6.812	6.812	0.000	94	554386	10.0	10.1	
47 1,1,1-Trichloroethane	97	6.824	6.830	-0.006	98	566116	5.00	5.26	
48 Cyclohexane	56	6.927	6.927	0.000	89	463244	5.00	5.12	
50 Carbon tetrachloride	117	7.037	7.037	0.000	96	523410	5.00	5.25	
51 1,1-Dichloropropene	75	7.037	7.037	0.000	94	443314	5.00	5.34	
52 Isobutyl alcohol	41	7.183	7.189	-0.006	94	129452	125.0	111.0	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.263	7.257	0.006	86	99080	10.0	10.1	
54 Benzene	78	7.299	7.299	0.000	97	1260758	5.00	5.28	
56 1,2-Dichloroethane	62	7.366	7.366	0.000	98	327234	5.00	4.92	
57 Tert-amyl methyl ether	73	7.488	7.488	0.000	98	759582	5.00	4.97	
* 58 Fluorobenzene (IS)	96	7.702	7.695	0.007	99	2024993	10.0	10.0	
59 n-Heptane	43	7.708	7.708	0.000	91	356744	5.00	4.57	
60 n-Butanol	56	8.061	8.073	-0.012	89	224975	250.0	243.8	
61 Trichloroethene	95	8.177	8.177	0.000	95	359614	5.00	5.25	
62 Methylcyclohexane	83	8.488	8.482	0.006	90	539338	5.00	4.93	
63 1,2-Dichloropropane	63	8.512	8.500	0.012	81	292448	5.00	5.11	
64 Methyl methacrylate	69	8.592	8.592	0.000	87	136965	5.00	4.35	
65 1,4-Dioxane	88	8.604	8.604	0.000	30	28722	125.0	120.8	M
66 Dibromomethane	93	8.622	8.610	0.012	90	153201	5.00	4.84	
68 Dichlorobromomethane	83	8.854	8.854	0.000	99	383843	5.00	5.08	
69 2-Nitropropane	41	9.116	9.116	0.000	100	37353	5.00	3.82	
72 1-Bromo-2-chloroethane	63	9.244	9.244	0.000	99	268265	5.00	4.96	
73 cis-1,3-Dichloropropene	75	9.396	9.396	0.000	96	435933	5.00	4.90	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	97	2301440	62.5	53.6	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2055897	10.0	9.96	
76 Toluene	92	9.780	9.780	0.000	98	823207	5.00	5.14	
78 trans-1,3-Dichloropropene	75	10.037	10.036	0.001	93	368088	5.00	5.12	
79 Ethyl methacrylate	69	10.098	10.097	0.001	87	295740	5.00	5.31	
80 1,1,2-Trichloroethane	97	10.238	10.244	-0.006	91	216044	5.00	4.93	
81 Tetrachloroethene	166	10.329	10.329	0.000	98	485305	5.00	5.27	
82 1,3-Dichloropropane	76	10.402	10.402	0.000	89	348014	5.00	4.94	
83 2-Hexanone	43	10.451	10.451	0.000	96	1623765	62.5	56.3	
85 Chlorodibromomethane	129	10.616	10.616	0.000	89	297793	5.00	5.01	
86 Ethylene Dibromide	107	10.732	10.731	0.001	100	209865	5.00	4.93	
* 87 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	84	1696187	10.0	10.0	
88 1-Chlorohexane	91	11.164	11.164	0.000	95	472917	5.00	4.88	
90 Chlorobenzene	112	11.183	11.183	0.000	97	970605	5.00	5.13	
91 1,1,1,2-Tetrachloroethane	131	11.268	11.268	0.000	94	358355	5.00	5.12	
92 Ethylbenzene	91	11.268	11.268	0.000	98	1643933	5.00	5.19	
93 m-Xylene & p-Xylene	106	11.384	11.384	0.000	99	1352568	10.0	10.4	
94 o-Xylene	106	11.713	11.713	0.000	97	653686	5.00	5.12	
95 Styrene	104	11.725	11.731	-0.006	95	1004508	5.00	5.06	
96 Bromoform	173	11.890	11.890	0.000	98	185099	5.00	5.05	
97 Isopropylbenzene	105	12.012	12.012	0.000	95	1768391	5.00	5.31	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 100 4-Bromofluorobenzene (Surr)	95	12.158	12.158	0.000	97	791466	10.0	9.89	
101 1,1,2,2-Tetrachloroethane	83	12.256	12.256	0.000	94	266979	5.00	4.88	
102 Bromobenzene	156	12.274	12.274	0.000	93	437274	5.00	5.03	
103 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	93	325176	25.0	21.0	
104 1,2,3-Trichloropropane	110	12.298	12.298	0.000	84	80935	5.00	5.00	
105 N-Propylbenzene	91	12.341	12.341	0.000	98	1951973	5.00	5.14	
106 2-Chlorotoluene	126	12.414	12.414	0.000	98	428523	5.00	5.14	
107 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	94	1447933	5.00	5.16	
108 4-Chlorotoluene	126	12.512	12.512	0.000	96	431319	5.00	5.06	
109 tert-Butylbenzene	134	12.719	12.719	0.000	92	344319	5.00	5.09	
110 Pentachloroethane	167	12.749	12.749	0.000	91	277987	5.00	5.00	
111 1,2,4-Trimethylbenzene	105	12.762	12.762	0.000	97	1442855	5.00	5.09	
112 sec-Butylbenzene	105	12.877	12.877	0.000	94	1834487	5.00	5.12	
113 1,3-Dichlorobenzene	146	12.981	12.981	0.000	98	834688	5.00	4.93	
114 4-Isopropyltoluene	119	12.987	12.987	0.000	97	1629109	5.00	5.05	
* 115 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	93	1033998	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.054	13.054	0.000	95	831667	5.00	4.81	
117 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	98	650650	5.00	4.97	
118 Benzyl chloride	126	13.127	13.133	-0.006	98	111006	5.00	5.02	
119 n-Butylbenzene	92	13.280	13.280	0.000	97	708182	5.00	4.95	
120 1,2-Dichlorobenzene	146	13.310	13.316	-0.006	99	758484	5.00	4.91	
122 1,2-Dibromo-3-Chloropropane	155	13.859	13.859	0.000	90	44189	5.00	5.05	
123 1,3,5-Trichlorobenzene	180	13.981	13.981	0.000	98	622686	5.00	4.92	
124 1,2,4-Trichlorobenzene	180	14.402	14.408	-0.006	94	509192	5.00	4.78	
125 Hexachlorobutadiene	225	14.487	14.487	0.000	95	220875	5.00	4.57	
126 Naphthalene	128	14.584	14.584	0.000	96	867528	5.00	4.76	
127 1,2,3-Trichlorobenzene	180	14.725	14.725	0.000	95	426620	5.00	4.57	
137 2-Methylnaphthalene	142		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	
134 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_EE_00002	Amount Added:	12.50	Units: uL	
MSV_LCS_VOC#1_00044	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00048	Amount Added:	12.50	Units: uL	
MSV_LCS_Penta_00013	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00070	Amount Added:	12.50	Units: uL	
MSV_LCS_ETBR_00001	Amount Added:	12.50	Units: uL	
MSV_LLcentISS_00004	Amount Added:	5.00	Units: uL	Run Reagent

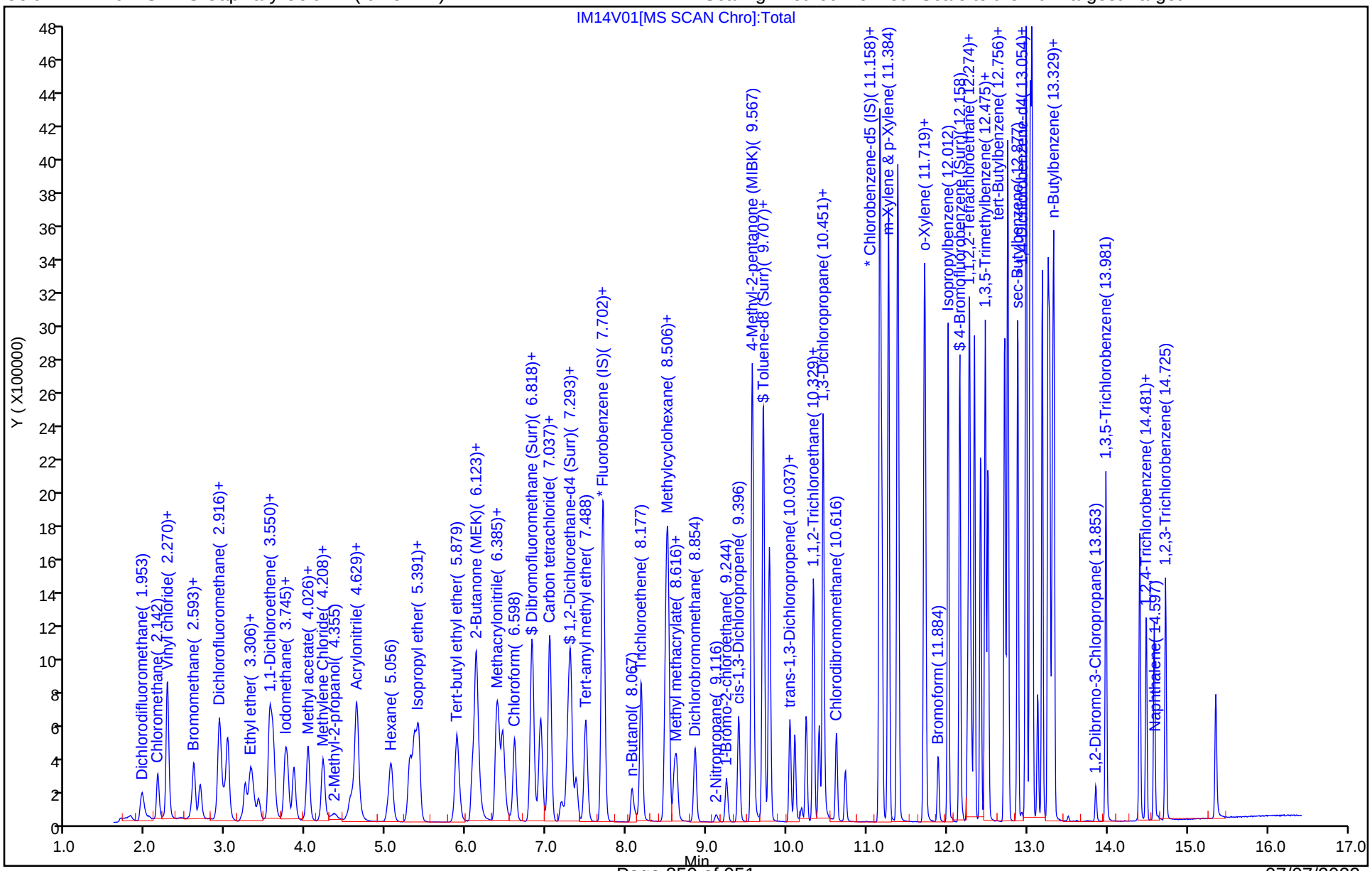
Report Date: 16-Mar-2022 10:12:31 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14V01.D

Injection Date:	15-Mar-2022 03:43:30	Instrument ID:	19930	Operator ID:	mec29284
Lims ID:	ICV LG			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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

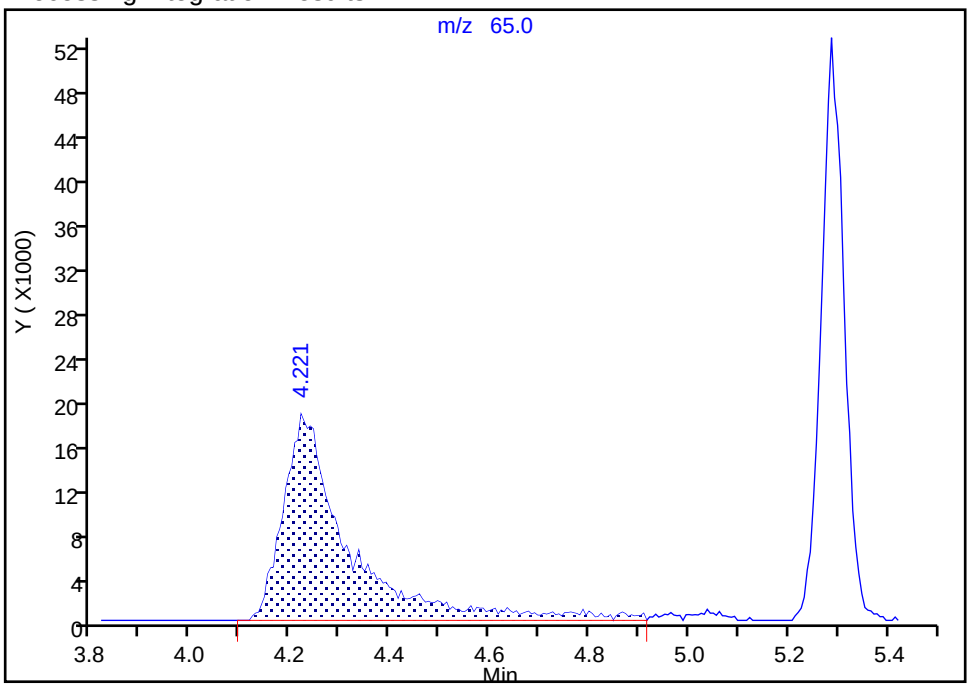
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14V01.D
Injection Date: 15-Mar-2022 03:43:30 Instrument ID: 19930
Lims ID: ICV LG
Client ID:
Operator ID: mec29284 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 24 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

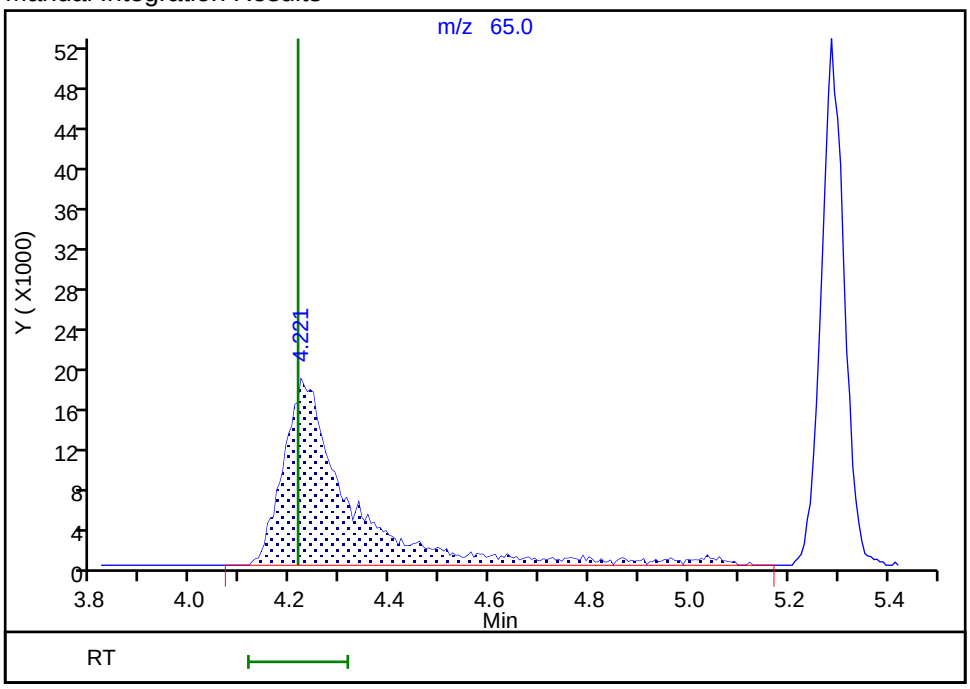
Processing Integration Results

RT: 4.22
Area: 167496
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.22
Area: 172755
Amount: 50.000000
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:30:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

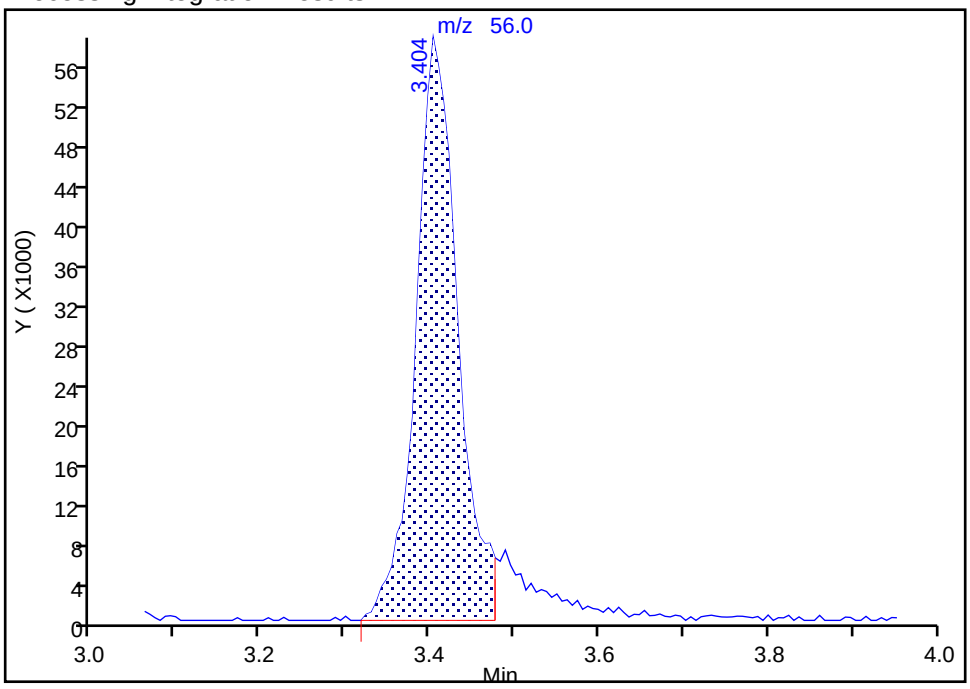
Data File:	\\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14V01.D				
Injection Date:	15-Mar-2022 03:43:30	Instrument ID:	19930		
Lims ID:	ICV LG				
Client ID:					
Operator ID:	mec29284	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

13 Acrolein, CAS: 107-02-8

Signal: 1

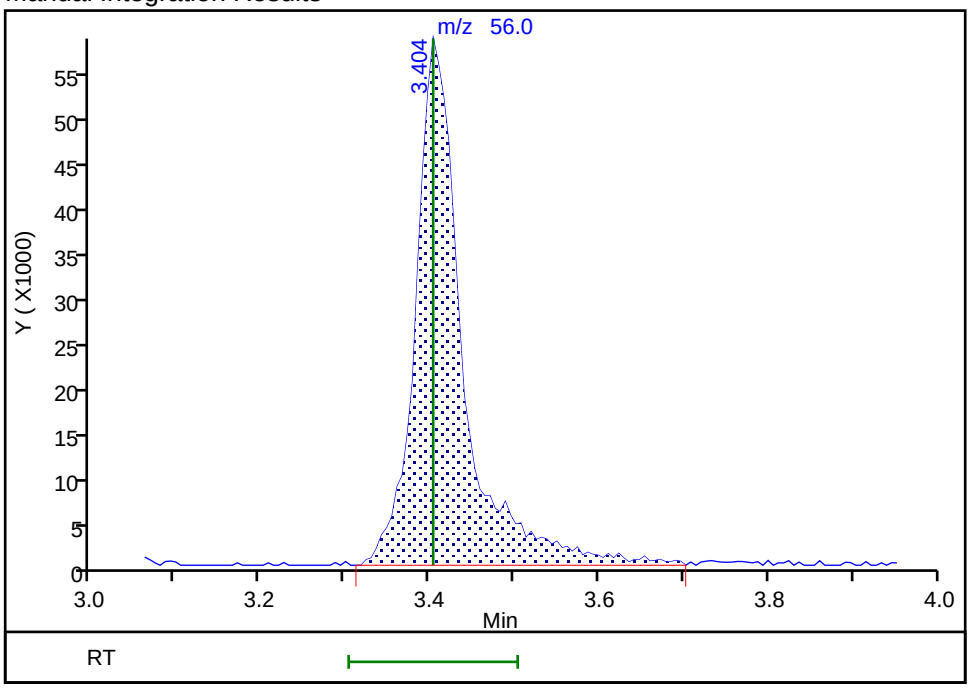
RT: 3.40
Area: 202235
Amount: 30.074886
Amount Units: ug/l

Processing Integration Results



Manual Integration Results

RT: 3.40
Area: 228413
Amount: 32.933835
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:30:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

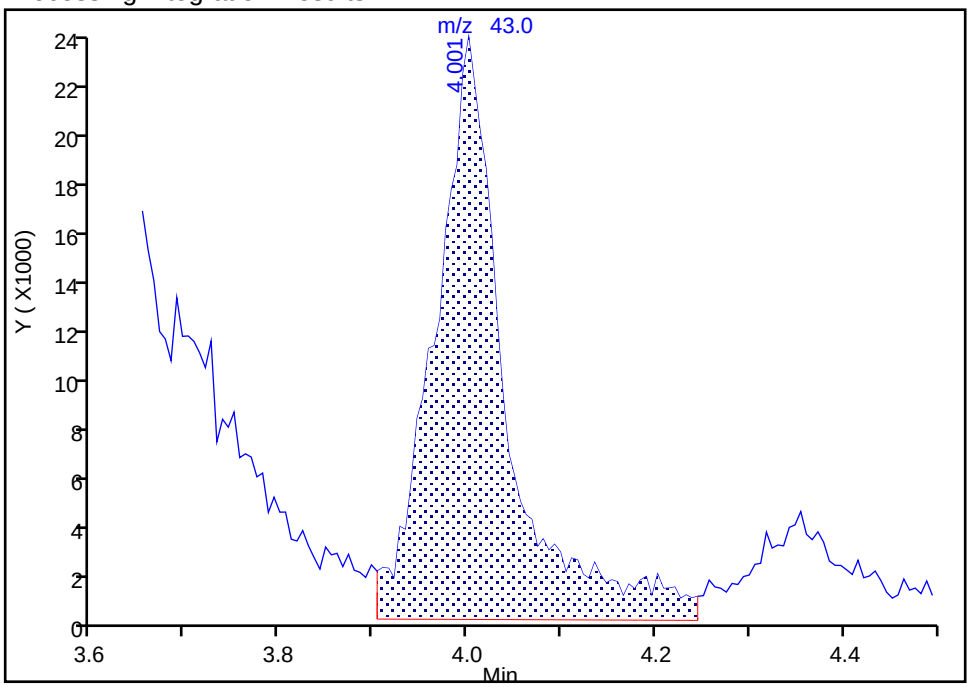
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14V01.D
Injection Date: 15-Mar-2022 03:43:30 Instrument ID: 19930
Lims ID: ICV LG
Client ID:
Operator ID: mec29284 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

21 Methyl acetate, CAS: 79-20-9

Signal: 1

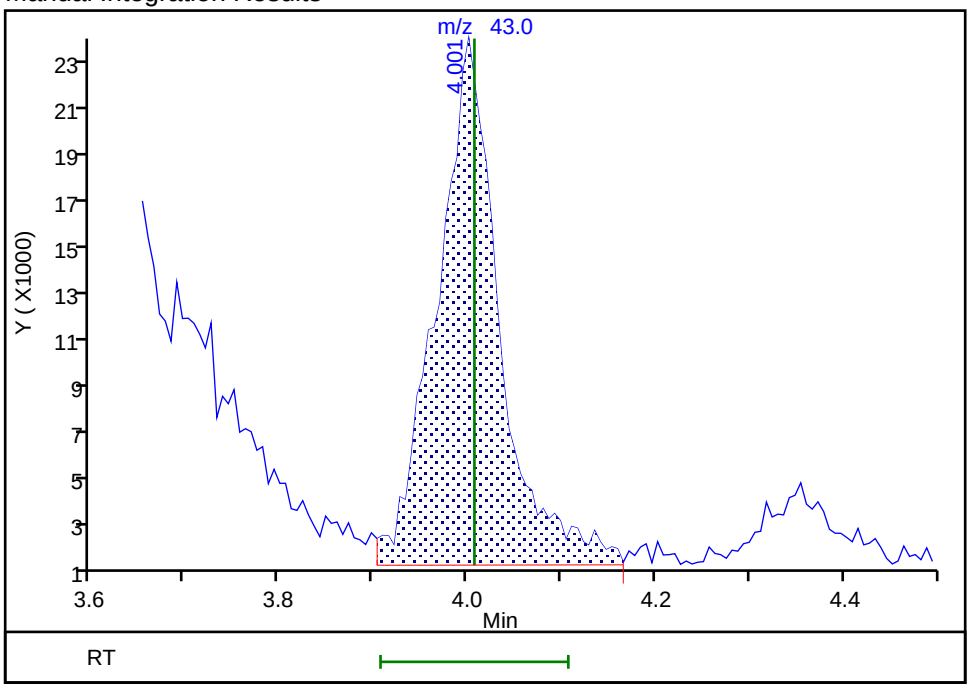
Processing Integration Results

RT: 4.00
Area: 123117
Amount: 5.541261
Amount Units: ug/l



Manual Integration Results

RT: 4.00
Area: 104171
Amount: 4.521206
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:30:39
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

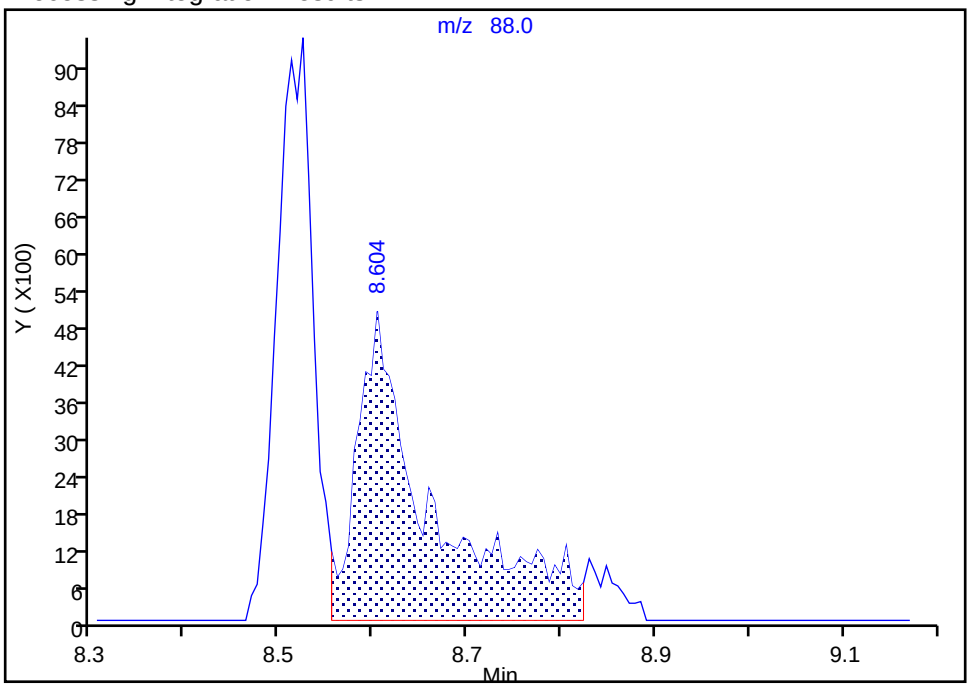
Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14V01.D
Injection Date: 15-Mar-2022 03:43:30 Instrument ID: 19930
Lims ID: ICV LG
Client ID:
Operator ID: mec29284 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

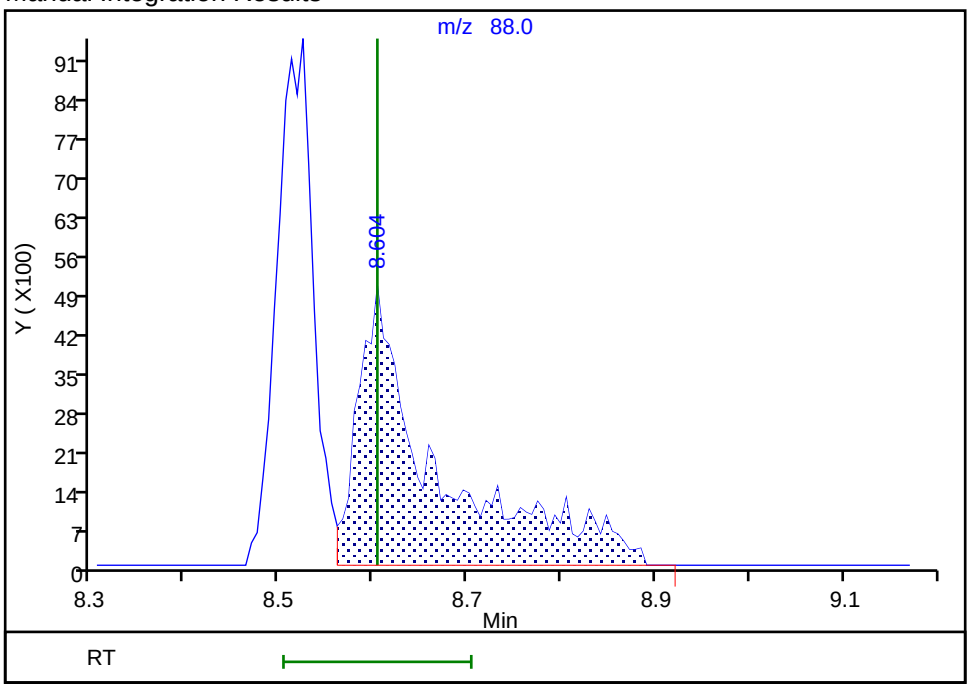
Processing Integration Results

RT: 8.60
Area: 27063
Amount: 105.8270
Amount Units: ug/l



Manual Integration Results

RT: 8.60
Area: 28722
Amount: 120.7802
Amount Units: ug/l



Reviewer: kephartk, 16-Mar-2022 08:31:09
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-88520-1

SDG No.:

Lab Sample ID: CCVIS 410-271084/3 Calibration Date: 06/30/2022 10:00

Instrument ID: 19930 Calib Start Date: 03/15/2022 01:15

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/15/2022 03:22

Lab File ID: IU30X02.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	0.3731	0.2929	0.1000	9.81	12.5	-21.5*	20.0
Chloromethane	Ave	0.3846	0.3612	0.1000	11.7	12.5	-6.1	20.0
Vinyl chloride	Ave	0.4063	0.3593	0.1000	11.1	12.5	-11.6	20.0
1,3-Butadiene	Ave	0.3972	0.3819		12.0	12.5	-3.9	20.0
Bromomethane	Ave	0.3364	0.2660	0.1000	9.88	12.5	-20.9*	20.0
Chloroethane	Ave	0.2471	0.2206	0.1000	11.2	12.5	-10.8	20.0
Dichlorofluoromethane	Ave	0.6215	0.5342		10.7	12.5	-14.0	20.0
Trichlorofluoromethane	Ave	0.6039	0.4847	0.1000	10.0	12.5	-19.7	20.0
Ethyl ether	Ave	0.1668	0.2072		15.5	12.5	24.3*	20.0
Freon 123a	Ave	0.3469	0.3362		12.1	12.5	-3.1	20.0
Acrolein	Ave	2.007	1.949		607	625	-2.9	20.0
1,1-Dichloroethene	Ave	0.2623	0.2389	0.1000	11.4	12.5	-8.9	20.0
Acetone	Ave	2.712	2.533	0.1000	117	125	-6.6	20.0
Freon 113	Ave	0.2754	0.2213	0.1000	10.0	12.5	-19.6	20.0
Methyl iodide	Ave	0.5377	0.4414		10.3	12.5	-17.9	20.0
Ethyl bromide	Ave	0.2505	0.2345		11.7	12.5	-6.4	20.0
Carbon disulfide	Ave	0.5882	0.5737	0.1000	12.2	12.5	-2.5	20.0
Methyl acetate	Lin		7.400	0.1000	14.2	12.5	13.2	20.0
Allyl chloride	Ave	0.3717	0.3543		11.9	12.5	-4.7	20.0
Methylene Chloride	Ave	0.2743	0.2644	0.1000	12.1	12.5	-3.6	20.0
t-Butyl alcohol	Ave	1.001	0.8344		208	250	-16.7	20.0
Acrylonitrile	Ave	3.192	3.644		35.7	31.3	14.2	20.0
Methyl tertiary butyl ether	Ave	0.6851	0.6500	0.1000	11.9	12.5	-5.1	20.0
trans-1,2-Dichloroethene	Ave	0.2975	0.2714	0.1000	11.4	12.5	-8.8	20.0
n-Hexane	Ave	0.3607	0.3210		11.1	12.5	-11.0	20.0
1,1-Dichloroethane	Ave	0.5092	0.4937	0.2000	12.1	12.5	-3.0	20.0
di-Isopropyl ether	Ave	0.7950	0.7801		12.3	12.5	-1.9	20.0
2-Chloro-1,3-butadiene	Ave	0.4147	0.3903		11.8	12.5	-5.9	20.0
Ethyl t-butyl ether	Ave	0.8093	0.7610		11.8	12.5	-6.0	20.0
2-Butanone	Ave	4.701	4.986	0.1000	133	125	6.0	20.0
cis-1,2-Dichloroethene	Ave	0.3399	0.3069	0.1000	11.3	12.5	-9.7	20.0
2,2-Dichloropropane	Ave	0.4723	0.4269		11.3	12.5	-9.6	20.0
Propionitrile	Ave	1.204	1.416		294	250	17.7	20.0
Methacrylonitrile	Ave	4.811	5.089		132	125	5.8	20.0
Bromochloromethane	Ave	0.1559	0.1401		11.2	12.5	-10.1	20.0
Tetrahydrofuran	Ave	1.330	1.462		68.7	62.5	10.0	20.0
Chloroform	Ave	0.5483	0.5131	0.2000	11.7	12.5	-6.4	20.0
1,1,1-Trichloroethane	Ave	0.5319	0.4687	0.1000	11.0	12.5	-11.9	20.0
Cyclohexane	Ave	0.4471	0.4069	0.1000	11.4	12.5	-9.0	20.0
1,1-Dichloropropene	Ave	0.4103	0.3975		12.1	12.5	-3.1	20.0
Carbon tetrachloride	Ave	0.4919	0.4170	0.1000	10.6	12.5	-15.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-88520-1

SDG No.:

Lab Sample ID: CCVIS 410-271084/3 Calibration Date: 06/30/2022 10:00

Instrument ID: 19930 Calib Start Date: 03/15/2022 01:15

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/15/2022 03:22

Lab File ID: IU30X02.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	0.3377	0.3283		608	625	-2.8	20.0
Benzene	Ave	1.178	1.164	0.5000	12.3	12.5	-1.3	20.0
1,2-Dichloroethane	Ave	0.3285	0.3232	0.1000	12.3	12.5	-1.6	20.0
t-Amyl methyl ether	Ave	0.7552	0.7280		12.0	12.5	-3.6	20.0
n-Heptane	Ave	0.3853	0.3369		10.9	12.5	-12.6	20.0
n-Butanol	Ave	0.2671	0.3169		1300	1090	18.6	20.0
Trichloroethene	Ave	0.3385	0.3195	0.2000	11.8	12.5	-5.6	20.0
Methylcyclohexane	Ave	0.5399	0.4679	0.1000	10.8	12.5	-13.3	20.0
1,2-Dichloropropane	Ave	0.2824	0.2985	0.1000	13.2	12.5	5.7	20.0
Methyl methacrylate	Ave	9.116	9.587		13.1	12.5	5.2	20.0
1,4-Dioxane	Ave	0.0688	0.0675	0.0050	613	625	-1.9	20.0
Dibromomethane	Ave	0.1563	0.1488		11.9	12.5	-4.8	20.0
Bromodichloromethane	Ave	0.3729	0.3733	0.2000	12.5	12.5	0.1	20.0
2-Nitropropane	Ave	2.832	2.962		65.4	62.5	4.6	20.0
1-Bromo-2-chloroethane	Ave	0.2672	0.3190		14.9	12.5	19.4	20.0
cis-1,3-Dichloropropene	Ave	0.4391	0.4574	0.2000	13.0	12.5	4.2	20.0
4-Methyl-2-pentanone	Ave	12.43	13.12	0.1000	132	125	5.5	20.0
Toluene	Ave	0.9434	0.9894	0.4000	13.1	12.5	4.9	20.0
trans-1,3-Dichloropropene	Ave	0.4237	0.4886	0.1000	14.4	12.5	15.3	20.0
Ethyl methacrylate	Ave	0.3286	0.3866		14.7	12.5	17.7	20.0
1,1,2-Trichloroethane	Ave	0.2585	0.2803	0.1000	13.6	12.5	8.4	20.0
Tetrachloroethene	Ave	0.5425	0.4857	0.2000	11.2	12.5	-10.5	20.0
1,3-Dichloropropane	Ave	0.4157	0.4686		14.1	12.5	12.7	20.0
2-Hexanone	Ave	8.351	9.472	0.1000	142	125	13.4	20.0
Dibromochloromethane	Ave	0.3508	0.3679		13.1	12.5	4.9	20.0
1,2-Dibromoethane	Ave	0.2510	0.2706	0.1000	13.5	12.5	7.8	20.0
1-Chlorohexane	Ave	0.5715	0.5554		12.1	12.5	-2.8	20.0
Chlorobenzene	Ave	1.117	1.127	0.5000	12.6	12.5	1.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4123	0.4021		12.2	12.5	-2.5	20.0
Ethylbenzene	Ave	1.867	1.952	0.1000	13.1	12.5	4.6	20.0
m&p-Xylene	Ave	0.7645	0.7729	0.1000	25.3	25.0	1.1	20.0
o-Xylene	Ave	0.7524	0.7489	0.3000	12.4	12.5	-0.5	20.0
Styrene	Ave	1.172	1.241	0.3000	13.2	12.5	5.9	20.0
Bromoform	Ave	0.2160	0.2251	0.1000	13.0	12.5	4.2	20.0
Isopropylbenzene	Ave	1.964	1.975	0.1000	12.6	12.5	0.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5291	0.6297	0.3000	14.9	12.5	19.0	20.0
Bromobenzene	Ave	0.8414	0.8260		12.3	12.5	-1.8	20.0
trans-1,4-Dichloro-2-butene	Ave	4.486	4.415		123	125	-1.6	20.0
1,2,3-Trichloropropane	Ave	0.1566	0.1719		13.7	12.5	9.8	20.0
N-Propylbenzene	Ave	3.670	4.030		13.7	12.5	9.8	20.0
2-Chlorotoluene	Ave	0.8070	0.8259		12.8	12.5	2.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-88520-1

SDG No.:

Lab Sample ID: CCVIS 410-271084/3 Calibration Date: 06/30/2022 10:00

Instrument ID: 19930 Calib Start Date: 03/15/2022 01:15

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/15/2022 03:22

Lab File ID: IU30X02.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	2.716	2.877		13.2	12.5	5.9	20.0
4-Chlorotoluene	Ave	0.8245	0.8497		12.9	12.5	3.1	20.0
tert-Butylbenzene	Ave	0.6545	0.6480		12.4	12.5	-1.0	20.0
Pentachloroethane	Ave	0.5376	0.5464		12.7	12.5	1.6	20.0
1,2,4-Trimethylbenzene	Ave	2.739	2.919		13.3	12.5	6.6	20.0
sec-Butylbenzene	Ave	3.467	3.590		12.9	12.5	3.6	20.0
1,3-Dichlorobenzene	Ave	1.638	1.638	0.6000	12.5	12.5	-0.0	20.0
p-Isopropyltoluene	Ave	3.120	3.168		12.7	12.5	1.6	20.0
1,4-Dichlorobenzene	Ave	1.674	1.651	0.5000	12.3	12.5	-1.3	20.0
1,2,3-Trimethylbenzene	Ave	1.265	1.271		12.6	12.5	0.5	20.0
Benzyl chloride	Ave	0.2140	0.2614		15.3	12.5	22.1*	20.0
n-Butylbenzene	Ave	1.385	1.512		13.7	12.5	9.2	20.0
1,2-Dichlorobenzene	Ave	1.493	1.503	0.4000	12.6	12.5	0.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0846	0.0946	0.0500	14.0	12.5	11.7	20.0
1,3,5-Trichlorobenzene	Ave	1.224	1.083		11.1	12.5	-11.5	20.0
1,2,4-Trichlorobenzene	Ave	1.031	0.9194	0.2000	11.1	12.5	-10.8	20.0
Hexachlorobutadiene	Ave	0.4676	0.3643		9.74	12.5	-22.1*	20.0
Naphthalene	Ave	1.764	1.834		13.0	12.5	4.0	20.0
1,2,3-Trichlorobenzene	Ave	0.9029	0.7825		10.8	12.5	-13.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2707	0.2561		9.46	10.0	-5.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0482	0.0514		10.7	10.0	6.7	20.0
Toluene-d8 (Surr)	Ave	1.217	1.296		10.6	10.0	6.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4719	0.4840		10.3	10.0	2.6	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220630-60785.b\IU30X02.D
Lims ID: CCVIS VSTD12.5
Client ID:
Sample Type: CCVIS
Inject. Date: 30-Jun-2022 10:00:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060785-003
Misc. Info.: CCVIS VSTD12.5
Operator ID: knk41612 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20220630-60785.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jun-2022 11:32:12 Calib Date: 15-Mar-2022 03:22:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 30-Jun-2022 10:46:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.965	1.965	0.000	99	1025052	12.5	9.81	
4 Chloromethane	50	2.166	2.166	0.000	99	1264015	12.5	11.7	
5 Vinyl chloride	62	2.282	2.282	0.000	98	1257116	12.5	11.1	
6 Butadiene	39	2.288	2.288	0.000	90	1336340	12.5	12.0	
7 Bromomethane	94	2.623	2.623	0.000	91	930815	12.5	9.88	
8 Chloroethane	64	2.696	2.696	0.000	100	771765	12.5	11.2	
9 Dichlorofluoromethane	67	2.940	2.940	0.000	97	1869200	12.5	10.7	
10 Trichlorofluoromethane	101	3.001	3.001	0.000	97	1695926	12.5	10.0	
11 Ethyl ether	59	3.251	3.251	0.000	90	725420	12.5	15.5	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.336	3.336	0.000	91	1176327	12.5	12.1	
13 Acrolein	56	3.416	3.416	0.000	99	5020460	625.0	606.9	
14 1,1-Dichloroethene	96	3.562	3.562	0.000	98	835992	12.5	11.4	
15 Acetone	43	3.586	3.586	0.000	100	1304752	125.0	116.7	
16 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.605	3.605	0.000	91	774354	12.5	10.0	
17 Iodomethane	142	3.757	3.757	0.000	99	1544469	12.5	10.3	
18 Ethyl bromide	108	3.787	3.787	0.000	99	820225	12.5	11.7	
19 Carbon disulfide	76	3.861	3.861	0.000	99	2007344	12.5	12.2	
21 Methyl acetate	43	4.007	4.007	0.000	97	381217	12.5	14.2	M
22 3-Chloro-1-propene	41	4.037	4.037	0.000	91	1239657	12.5	11.9	
23 Methylene Chloride	84	4.226	4.226	0.000	90	925265	12.5	12.1	
* 24 t-Butyl alcohol-d10 (IS)	65	4.239	4.239	0.000	95	206056	50.0	50.0	M
25 2-Methyl-2-propanol	59	4.354	4.354	0.000	99	859711	250.0	208.3	
26 Acrylonitrile	53	4.562	4.562	0.000	98	469307	31.3	35.7	
27 Methyl tert-butyl ether	73	4.629	4.629	0.000	95	2274535	12.5	11.9	
28 trans-1,2-Dichloroethene	96	4.647	4.647	0.000	99	949773	12.5	11.4	
29 Hexane	57	5.068	5.068	0.000	92	1123249	12.5	11.1	
31 1,1-Dichloroethane	63	5.299	5.299	0.000	96	1727549	12.5	12.1	
32 Isopropyl ether	45	5.360	5.360	0.000	93	2729673	12.5	12.3	
33 2-Chloro-1,3-butadiene	53	5.409	5.409	0.000	91	1365699	12.5	11.8	
34 Tert-butyl ethyl ether	59	5.891	5.891	0.000	97	2662789	12.5	11.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.086	6.086	0.000	99	2568234	125.0	132.6	
37 cis-1,2-Dichloroethene	96	6.129	6.129	0.000	82	1073960	12.5	11.3	
38 2,2-Dichloropropane	77	6.141	6.141	0.000	87	1493769	12.5	11.3	
40 Propionitrile	54	6.171	6.171	0.000	99	1459367	250.0	294.2	
42 Methacrylonitrile	67	6.391	6.391	0.000	90	2621576	125.0	132.2	
43 Chlorobromomethane	128	6.458	6.458	0.000	91	490125	12.5	11.2	
44 Tetrahydrofuran	71	6.476	6.476	0.000	80	376649	62.5	68.7	
45 Chloroform	83	6.604	6.604	0.000	93	1795331	12.5	11.7	
$ 46 Dibromofluoromethane (Surr)	113	6.817	6.817	0.000	93	716980	10.0	9.46	
47 1,1,1-Trichloroethane	97	6.836	6.836	0.000	98	1640032	12.5	11.0	
48 Cyclohexane	56	6.933	6.933	0.000	90	1423727	12.5	11.4	
50 Carbon tetrachloride	117	7.043	7.043	0.000	87	1459081	12.5	10.6	
51 1,1-Dichloropropene	75	7.043	7.043	0.000	96	1391054	12.5	12.1	
52 Isobutyl alcohol	41	7.183	7.183	0.000	94	845729	625.0	607.8	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.275	7.275	0.000	83	144006	10.0	10.7	
54 Benzene	78	7.305	7.305	0.000	96	4071668	12.5	12.3	
56 1,2-Dichloroethane	62	7.372	7.372	0.000	98	1130836	12.5	12.3	
57 Tert-amyl methyl ether	73	7.494	7.494	0.000	99	2547293	12.5	12.0	
* 58 Fluorobenzene (IS)	96	7.707	7.707	0.000	99	2799379	10.0	10.0	
59 n-Heptane	43	7.720	7.720	0.000	90	1178811	12.5	10.9	
60 n-Butanol	56	8.061	8.061	0.000	87	1428273	1093.8	1297.6	
61 Trichloroethene	95	8.183	8.183	0.000	97	1117908	12.5	11.8	
62 Methylcyclohexane	83	8.488	8.488	0.000	92	1637255	12.5	10.8	
63 1,2-Dichloropropane	63	8.512	8.512	0.000	86	1044388	12.5	13.2	
64 Methyl methacrylate	69	8.591	8.591	0.000	90	493858	12.5	13.1	
65 1,4-Dioxane	88	8.604	8.604	0.000	34	173830	625.0	612.8	
66 Dibromomethane	93	8.622	8.622	0.000	94	520637	12.5	11.9	
68 Dichlorobromomethane	83	8.854	8.854	0.000	99	1306416	12.5	12.5	
69 2-Nitropropane	41	9.116	9.116	0.000	99	762874	62.5	65.4	
72 1-Bromo-2-chloroethane	63	9.250	9.250	0.000	99	1116356	12.5	14.9	
73 cis-1,3-Dichloropropene	75	9.402	9.402	0.000	97	1600609	12.5	13.0	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	96	6757014	125.0	131.9	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2863684	10.0	10.6	
76 Toluene	92	9.780	9.780	0.000	98	2732729	12.5	13.1	
78 trans-1,3-Dichloropropene	75	10.036	10.036	0.000	92	1349420	12.5	14.4	
79 Ethyl methacrylate	69	10.097	10.097	0.000	88	1067828	12.5	14.7	
80 1,1,2-Trichloroethane	97	10.237	10.237	0.000	91	774144	12.5	13.6	
81 Tetrachloroethene	166	10.329	10.329	0.000	98	1341370	12.5	11.2	
82 1,3-Dichloropropane	76	10.402	10.402	0.000	89	1294259	12.5	14.1	
83 2-Hexanone	43	10.451	10.451	0.000	96	4879182	125.0	141.8	
85 Chlorodibromomethane	129	10.615	10.615	0.000	90	1016125	12.5	13.1	
86 Ethylene Dibromide	107	10.731	10.731	0.000	99	747477	12.5	13.5	
* 87 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	2209570	10.0	10.0	
88 1-Chlorohexane	91	11.164	11.164	0.000	96	1533878	12.5	12.1	
90 Chlorobenzene	112	11.182	11.182	0.000	97	3113521	12.5	12.6	
91 1,1,1,2-Tetrachloroethane	131	11.262	11.262	0.000	95	1110605	12.5	12.2	
92 Ethylbenzene	91	11.268	11.268	0.000	98	5390572	12.5	13.1	
93 m-Xylene & p-Xylene	106	11.384	11.384	0.000	100	4269682	25.0	25.3	
94 o-Xylene	106	11.713	11.713	0.000	96	2068411	12.5	12.4	
95 Styrene	104	11.725	11.725	0.000	94	3426465	12.5	13.2	
96 Bromoform	173	11.883	11.883	0.000	97	621684	12.5	13.0	
97 Isopropylbenzene	105	12.012	12.012	0.000	95	5453909	12.5	12.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 100 4-Bromofluorobenzene (Surr)	95	12.158	12.158	0.000	93	1069469	10.0	10.3	
101 1,1,2,2-Tetrachloroethane	83	12.255	12.255	0.000	93	1003046	12.5	14.9	
102 Bromobenzene	156	12.274	12.274	0.000	94	1315706	12.5	12.3	
103 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	92	2274466	125.0	123.0	
104 1,2,3-Trichloropropane	110	12.298	12.298	0.000	81	273903	12.5	13.7	
105 N-Propylbenzene	91	12.341	12.341	0.000	99	6418951	12.5	13.7	
106 2-Chlorotoluene	126	12.414	12.414	0.000	97	1315603	12.5	12.8	
107 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	94	4582984	12.5	13.2	
108 4-Chlorotoluene	126	12.505	12.505	0.000	97	1353543	12.5	12.9	
109 tert-Butylbenzene	134	12.713	12.713	0.000	93	1032288	12.5	12.4	
110 Pentachloroethane	167	12.749	12.749	0.000	92	870409	12.5	12.7	
111 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	4649369	12.5	13.3	
112 sec-Butylbenzene	105	12.877	12.877	0.000	94	5719390	12.5	12.9	
113 1,3-Dichlorobenzene	146	12.981	12.981	0.000	98	2608828	12.5	12.5	
114 4-Isopropyltoluene	119	12.987	12.987	0.000	97	5047166	12.5	12.7	
* 115 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	93	1274361	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.054	13.054	0.000	94	2629942	12.5	12.3	
117 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	98	2024999	12.5	12.6	
118 Benzyl chloride	126	13.127	13.127	0.000	98	416438	12.5	15.3	
119 n-Butylbenzene	92	13.280	13.280	0.000	96	2408933	12.5	13.7	
120 1,2-Dichlorobenzene	146	13.310	13.310	0.000	99	2393744	12.5	12.6	
122 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	88	150643	12.5	14.0	
123 1,3,5-Trichlorobenzene	180	13.981	13.981	0.000	98	1725215	12.5	11.1	
124 1,2,4-Trichlorobenzene	180	14.401	14.401	0.000	94	1464501	12.5	11.1	
125 Hexachlorobutadiene	225	14.487	14.487	0.000	97	580387	12.5	9.74	
126 Naphthalene	128	14.584	14.584	0.000	97	2921713	12.5	13.0	
127 1,2,3-Trichlorobenzene	180	14.724	14.724	0.000	96	1246493	12.5	10.8	
137 2-Methylnaphthalene	142		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
134 Isopropyl alcohol	45		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00047	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00098	Amount Added: 25.00	Units: uL	
MSV_LL_#2_826_00052	Amount Added: 25.00	Units: uL	
MSV_LLcentISS_00004	Amount Added: 5.00	Units: uL	Run Reagent

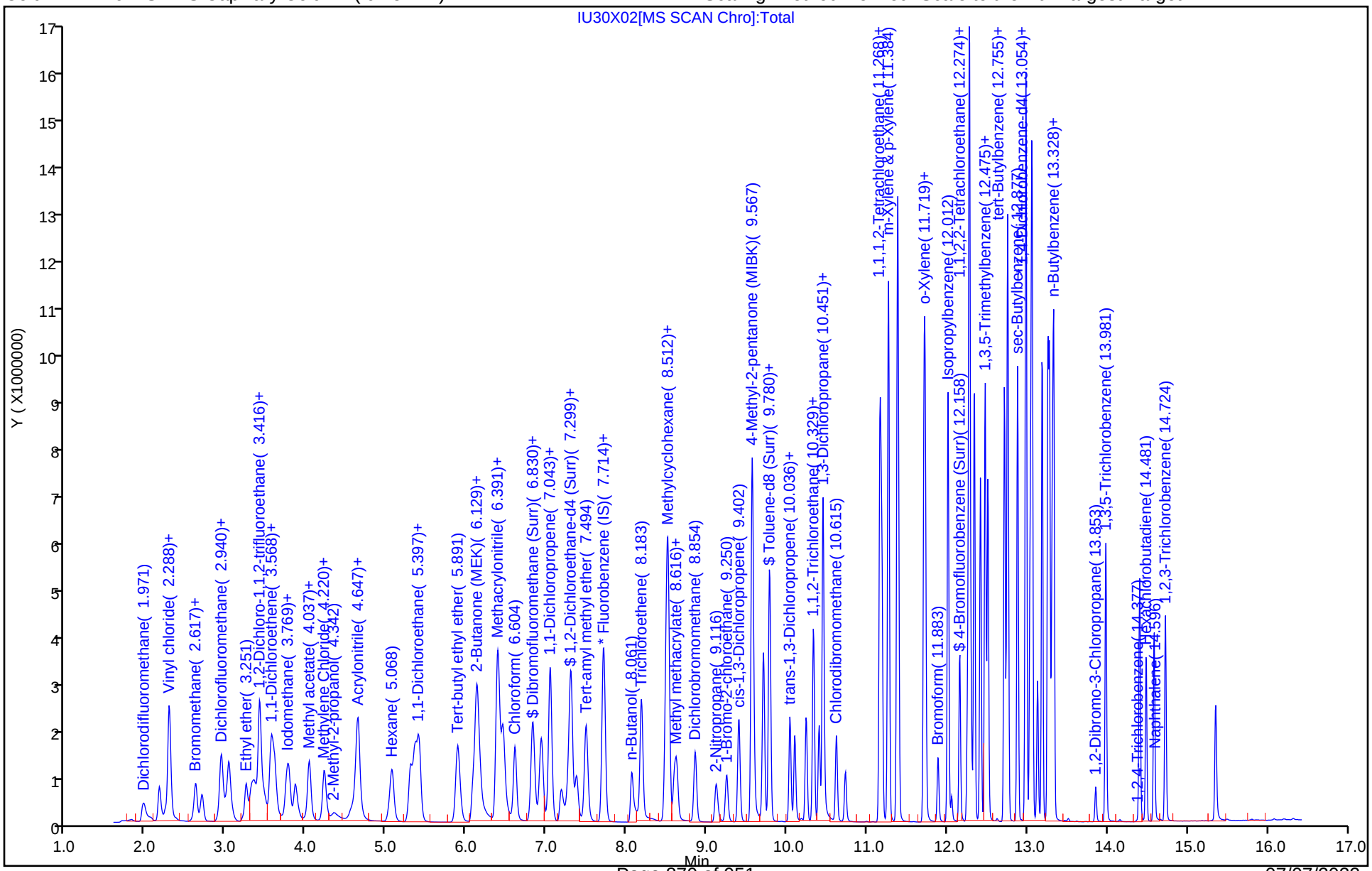
Report Date: 30-Jun-2022 11:32:12 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220630-60785.b\IU30X02.D

Injection Date:	30-Jun-2022 10:00:30	Instrument ID:	19930	Operator ID:	knk41612
Lims ID:	CCVIS VSTD12.5			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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

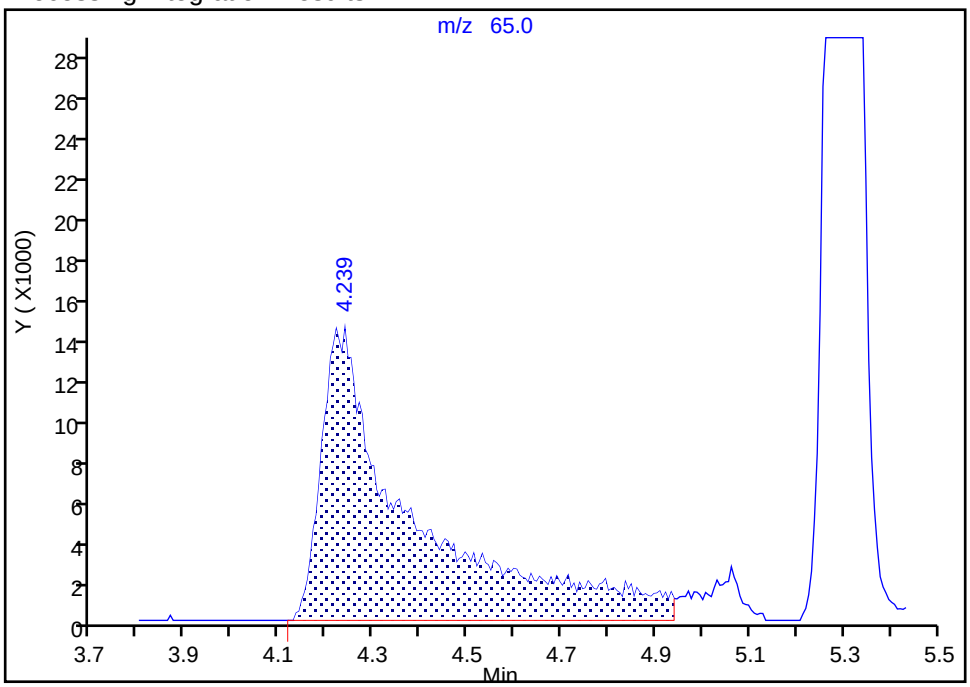
Data File:	\\chromfs\Lancaster\ChromData\19930\20220630-60785.b\IU30X02.D				
Injection Date:	30-Jun-2022 10:00:30	Instrument ID:	19930		
Lims ID:	CCVIS VSTD12.5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 24 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

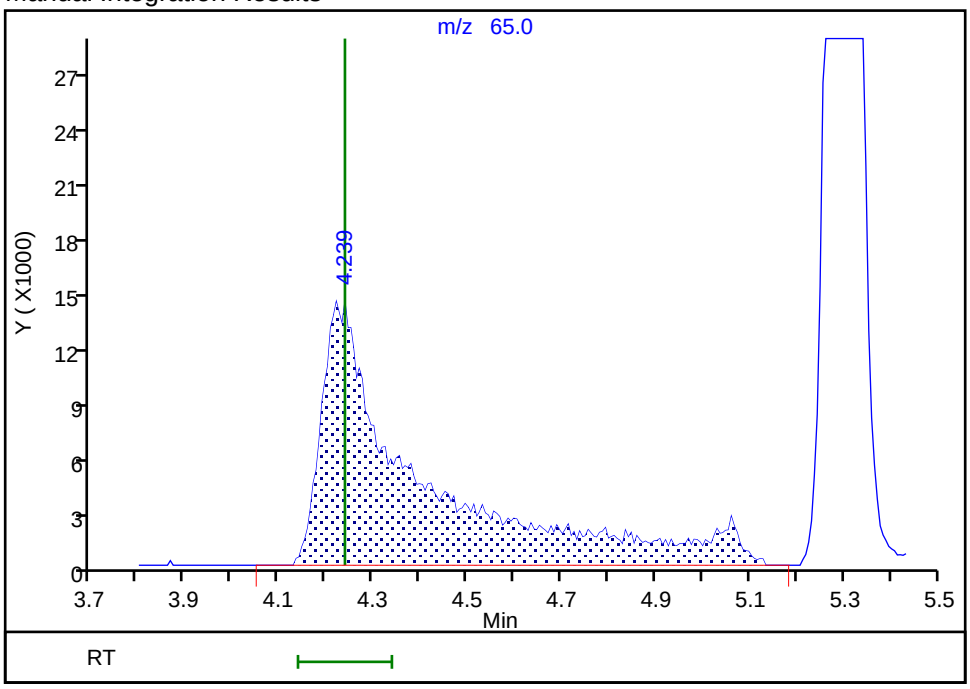
Processing Integration Results

RT: 4.24
Area: 191867
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.24
Area: 206056
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 30-Jun-2022 10:43:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

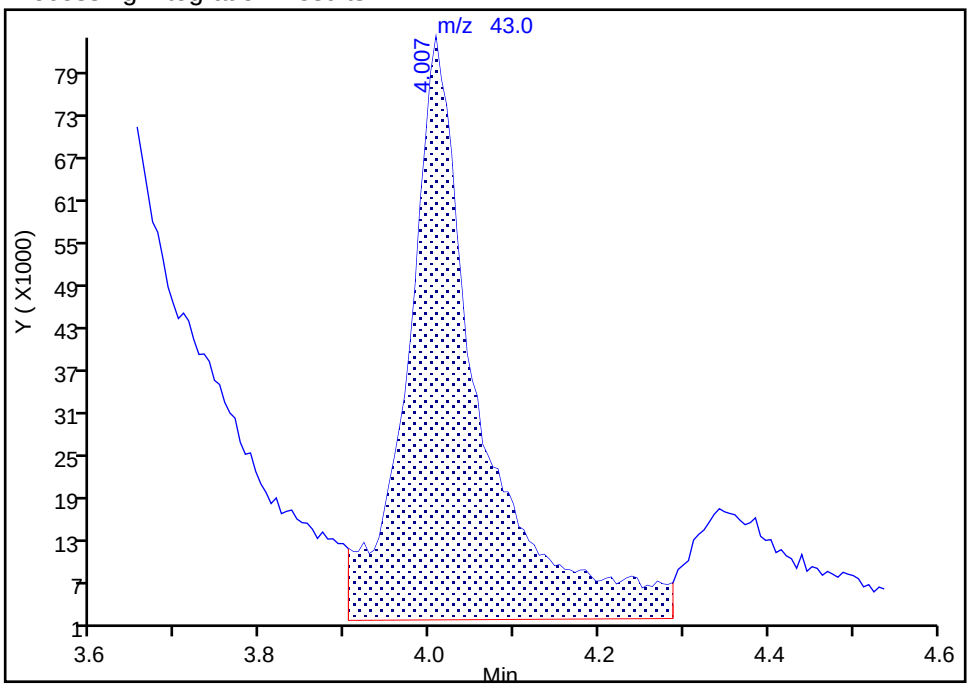
Data File:	\\chromfs\Lancaster\ChromData\19930\20220630-60785.b\IU30X02.D				
Injection Date:	30-Jun-2022 10:00:30	Instrument ID:	19930		
Lims ID:	CCVIS VSTD12.5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Methyl acetate, CAS: 79-20-9

Signal: 1

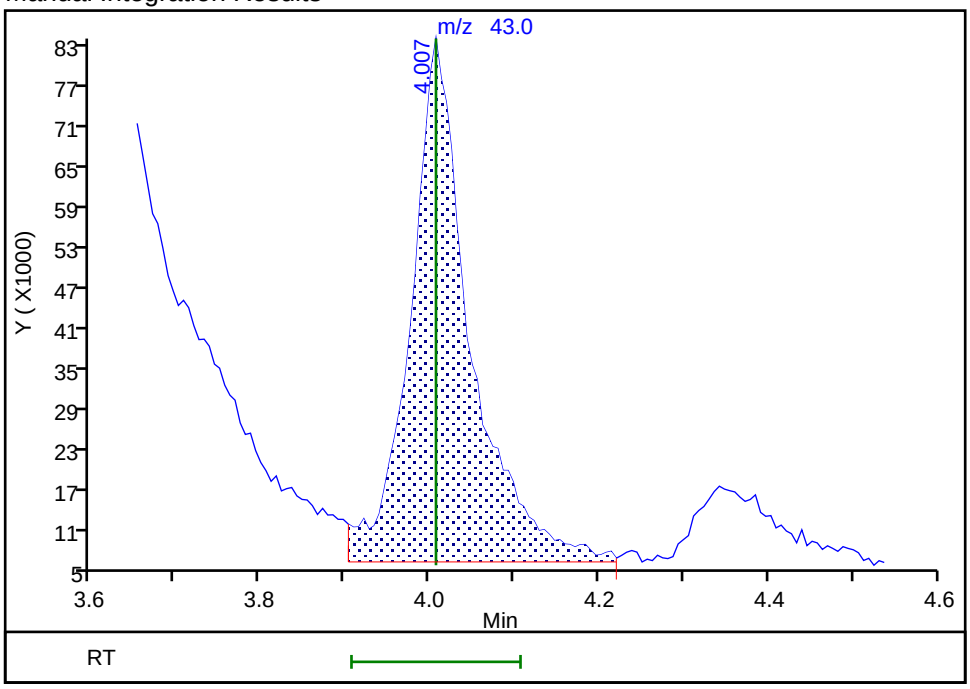
Processing Integration Results

RT: 4.01
Area: 486818
Amount: 19.463434
Amount Units: ug/l



Manual Integration Results

RT: 4.01
Area: 381217
Amount: 14.154793
Amount Units: ug/l



Reviewer: DVW2, 30-Jun-2022 10:43:08

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10T01.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	10-Jan-2022 14:32:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0048068-001				
Misc. Info.:	BFB				
Operator ID:	kas02648	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	11-Jan-2022 18:50:45	Calib Date:	10-Jan-2022 23:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1654				
First Level Reviewer: campbellme		Date:	11-Jan-2022 16:16:36		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 163 BFB	95	5.157	5.157	0.000	92	101125	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

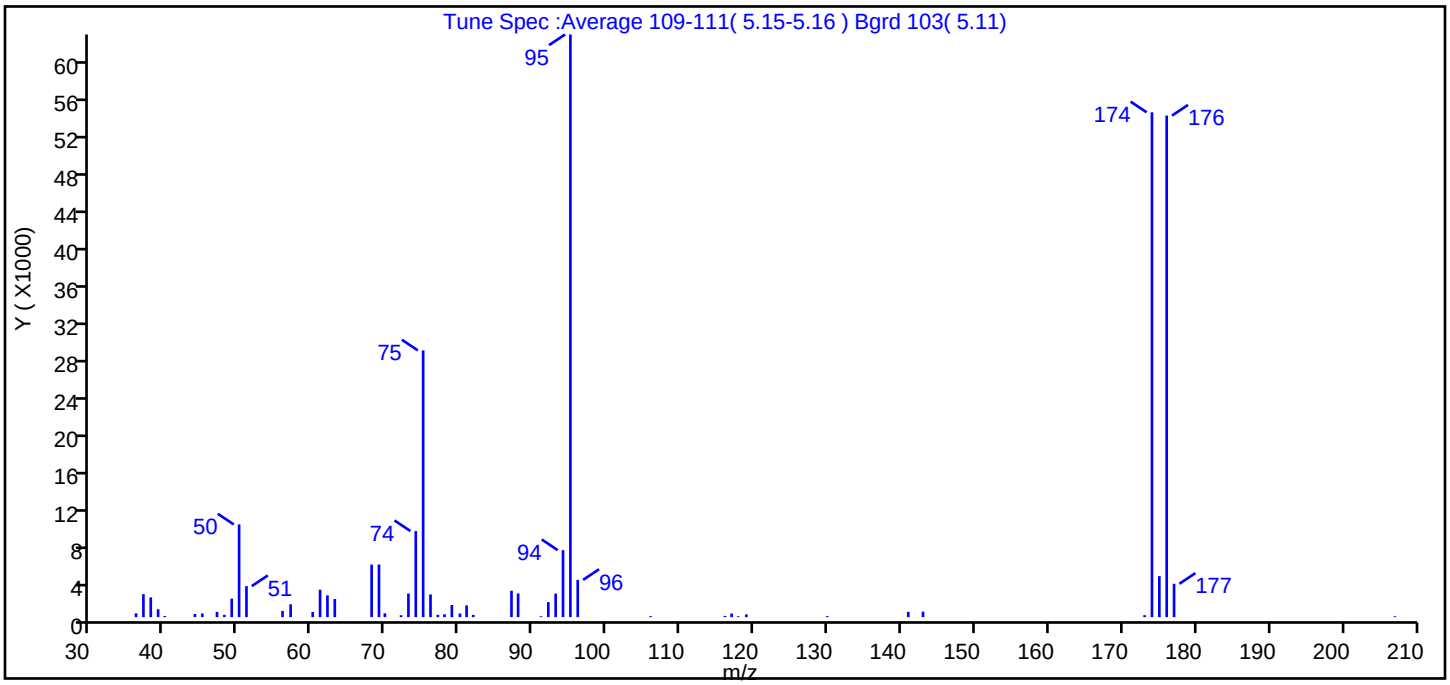
MSV_V_BFB_00007 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10T01.D
Injection Date: 10-Jan-2022 14:32:30 Instrument ID: 16334
Lims ID: bfb
Client ID:
Operator ID: kas02648 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 163 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.9
75	30 to 60% of m/z 95	45.8
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.3 (0.4)
174	50 to 120% of m/z 95	86.6
175	5 to 9% of m/z 174	7.0 (8.1)
176	Greater than 95% but less than 101% of m/z 174	86.1 (99.4)
177	5 to 9% of m/z 176	5.7 (6.7)

Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10T01.D\MSV_16334_25mL.rslt\spectra.d
Injection Date: 10-Jan-2022 14:32:30
Spectrum: Tune Spec :Average 109-111(5.15-5.16) Bgrd 103(5.11)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 54

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	415	60.00	553	79.00	1308	117.00	387
37.00	2466	61.00	2948	80.00	391	118.00	91
38.00	2121	62.00	2337	81.00	1260	119.00	293
39.00	849	63.00	1950	82.00	242	130.00	109
40.00	129	68.00	5646	87.00	2839	141.00	571
44.00	339	69.00	5655	88.00	2545	143.00	590
45.00	395	70.00	408	91.00	95	173.00	210
47.00	568	72.00	206	92.00	1612	174.00	54232
48.00	247	73.00	2529	93.00	2525	175.00	4406
49.00	1991	74.00	9245	94.00	7201	176.00	53880
50.00	9958	75.00	28656	95.00	62592	177.00	3584
51.00	3334	76.00	2439	96.00	4002	207.00	95
56.00	664	77.00	244	106.00	103		
57.00	1382	78.00	306	116.00	129		

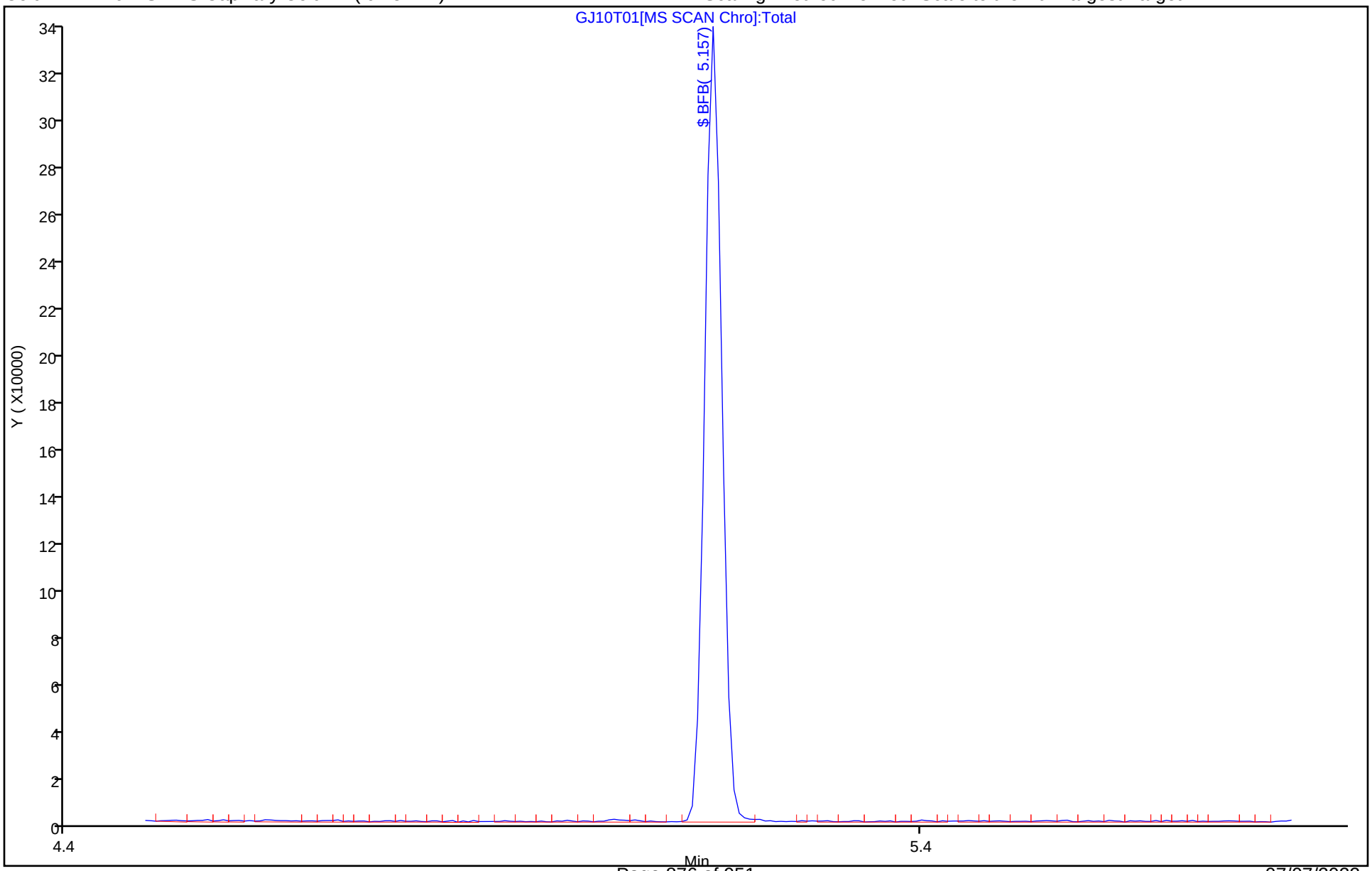
Report Date: 11-Jan-2022 18:50:45 Chrom Revision: 2.3 03-Jan-2022 17:03:12

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10T01.D

Injection Date:	10-Jan-2022 14:32:30	Instrument ID:	16334	Operator ID:	kas02648
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28T01.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	28-Jun-2022 09:47:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0060580-001				
Misc. Info.:	BFB				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	28-Jun-2022 12:13:41	Calib Date:	10-Jan-2022 23:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1640				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 163 BFB	95	5.139	5.139	0.000	0	167159	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

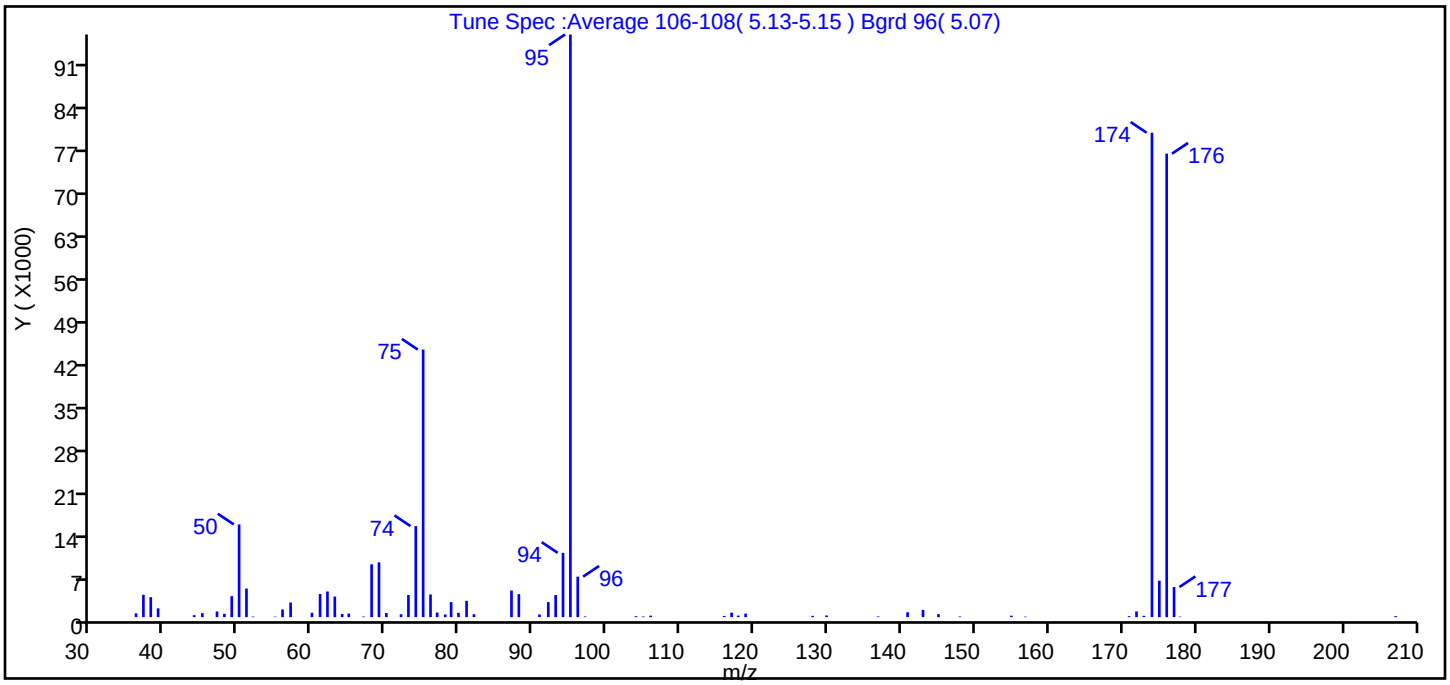
MSV_V_BFB_00007 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28T01.D				
Injection Date:	28-Jun-2022 09:47:30	Instrument ID:	16334		
Lims ID:	BFB				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Tune Method:	BFB Method 8260				

$ 163 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.9
75	30 to 60% of m/z 95	45.9
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.2 (0.3)
174	50 to 120% of m/z 95	83.1
175	5 to 9% of m/z 174	6.3 (7.5)
176	Greater than 95% but less than 101% of m/z 174	79.5 (95.7)
177	5 to 9% of m/z 176	5.2 (6.5)

Data File: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28T01.D\MSV_16334_25mL.rslt\spectra.d
Injection Date: 28-Jun-2022 09:47:30
Spectrum: Tune Spec :Average 106-108(5.13-5.15) Bgrd 96(5.07)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 70

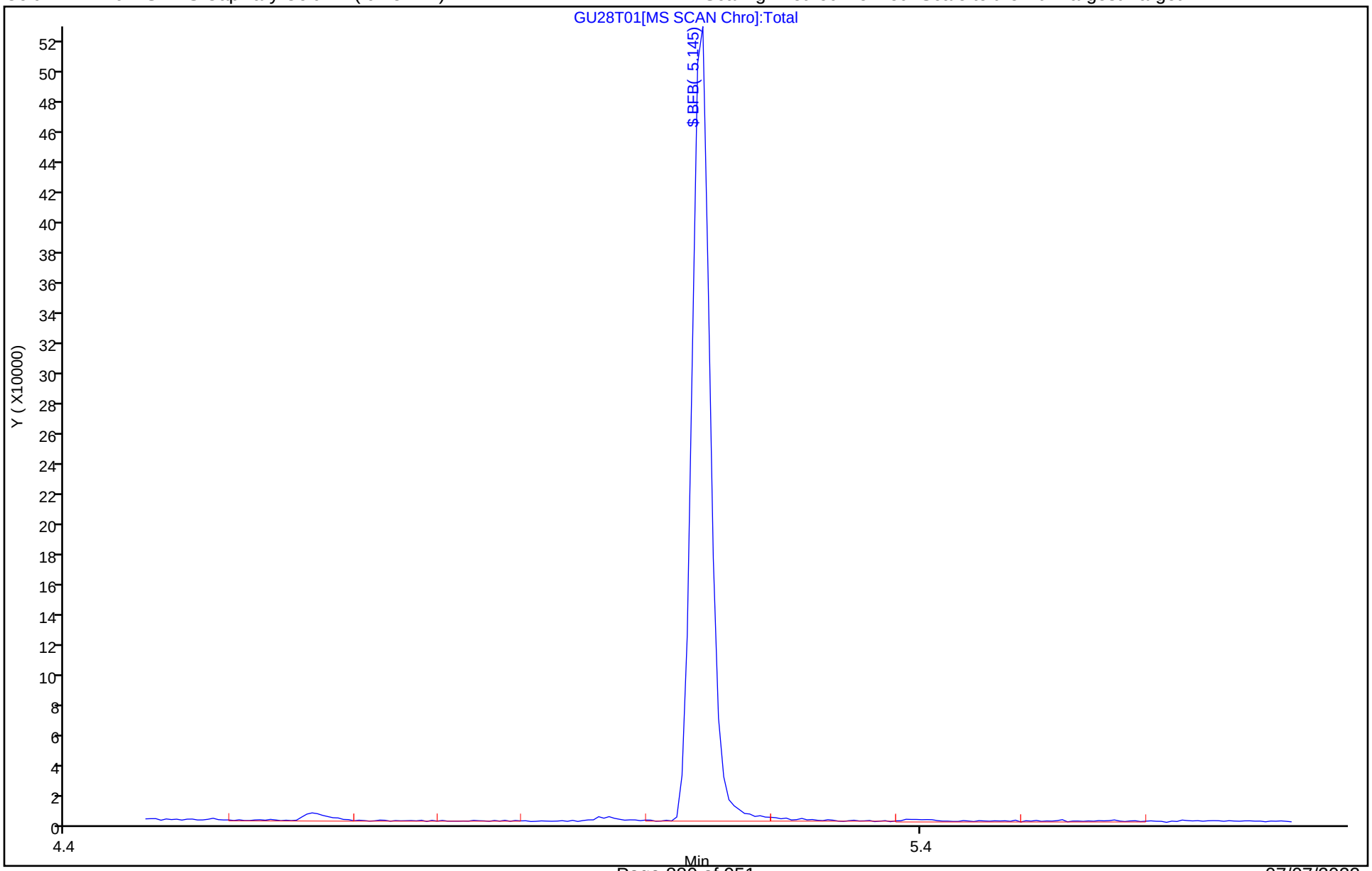
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	616	63.00	3362	87.00	4343	137.00	114
37.00	3650	64.00	521	88.00	3760	141.00	797
38.00	3266	65.00	580	91.00	437	143.00	1191
39.00	1435	67.00	105	92.00	2459	145.00	494
44.00	325	68.00	8629	93.00	3606	148.00	109
45.00	654	69.00	8954	94.00	10503	155.00	238
47.00	924	70.00	671	95.00	95176	157.00	86
48.00	547	72.00	468	96.00	6617	171.00	164
49.00	3429	73.00	3609	97.00	115	172.00	932
50.00	15148	74.00	14875	104.00	158	173.00	215
51.00	4671	75.00	43704	105.00	106	174.00	79128
52.00	96	76.00	3702	106.00	245	175.00	5957
55.00	86	77.00	764	116.00	194	176.00	75712
56.00	1251	78.00	435	117.00	735	177.00	4916
57.00	2390	79.00	2451	118.00	252	178.00	87
60.00	715	80.00	705	119.00	575	207.00	167
61.00	3792	81.00	2667	128.00	215		
62.00	4190	82.00	470	130.00	277		

Report Date: 28-Jun-2022 12:13:42 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28T01.D				
Injection Date:	28-Jun-2022 09:47:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14T01.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	14-Mar-2022 21:24:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0052441-001				
Misc. Info.:	BFB				
Operator ID:	mec29284	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20220314-52441.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	16-Mar-2022 10:12:27	Calib Date:	15-Mar-2022 03:22:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1676				
First Level Reviewer: campbellme		Date:	14-Mar-2022 21:42:20		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 145 BFB	95	5.172	5.172	0.000	0	134505	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

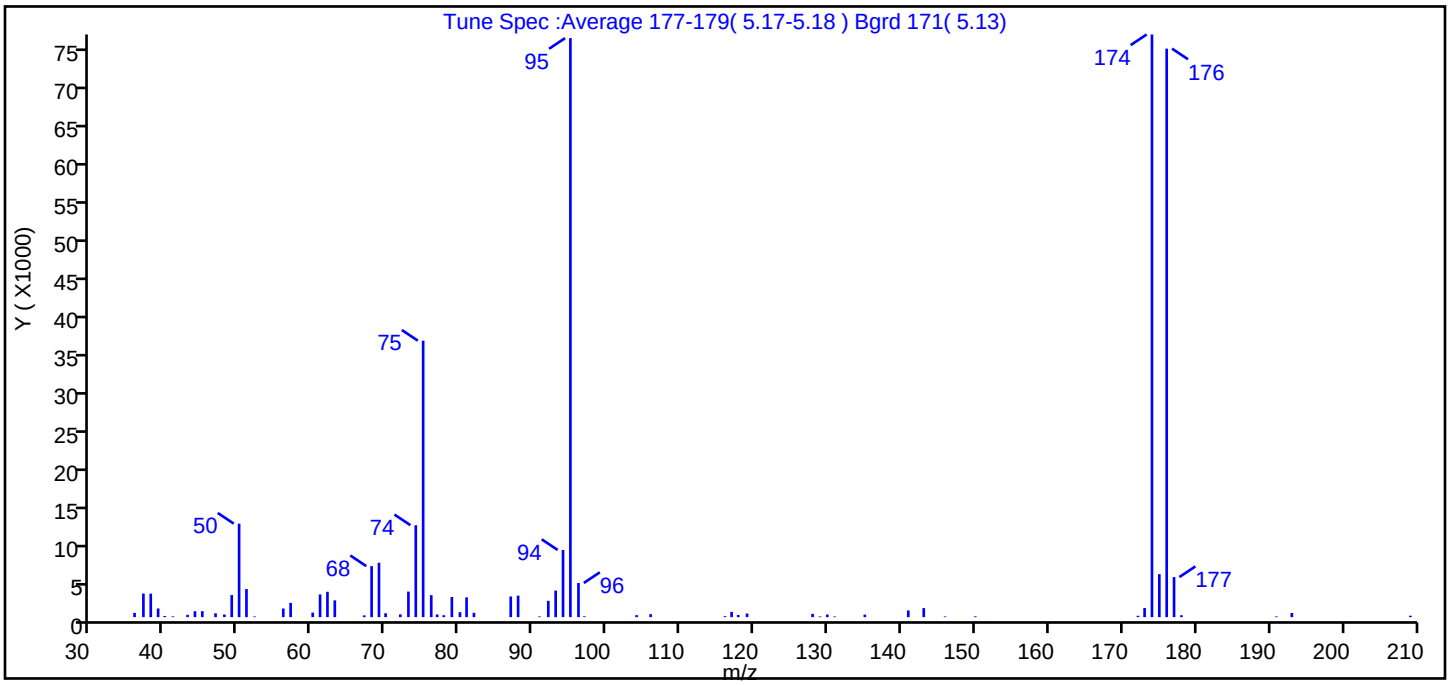
MSV_V_BFB_00007 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14T01.D
Injection Date: 14-Mar-2022 21:24:30 Instrument ID: 19930
Lims ID: bfb
Client ID:
Operator ID: mec29284 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

$ 145 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.1
75	30 to 60% of m/z 95	47.8
96	5 to 9% of m/z 95	5.9
173	Less than 2% of m/z 174	1.6 (1.6)
174	50 to 120% of m/z 95	100.6
175	5 to 9% of m/z 174	7.4 (7.4)
176	Greater than 95% but less than 101% of m/z 174	98.2 (97.6)
177	5 to 9% of m/z 176	6.9 (7.0)

Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14T01.D\8260 25ml HP31.rslt\spectra.d
Injection Date: 14-Mar-2022 21:24:30
Spectrum: Tune Spec :Average 177-179(5.17-5.18) Bgrd 171(5.13)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 70

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	561	61.00	2979	87.00	2708	131.00	92
37.00	3093	62.00	3331	88.00	2819	135.00	335
38.00	3084	63.00	2200	91.00	96	141.00	880
39.00	1137	67.00	230	92.00	2140	143.00	1190
40.00	156	68.00	6693	93.00	3482	146.00	89
41.00	99	69.00	7135	94.00	8811	150.00	104
43.00	303	70.00	511	95.00	75960	172.00	182
44.00	784	72.00	362	96.00	4482	173.00	1206
45.00	787	73.00	3353	97.00	105	174.00	76440
47.00	504	74.00	12059	104.00	265	175.00	5638
48.00	346	75.00	36272	106.00	394	176.00	74584
49.00	2901	76.00	2888	116.00	130	177.00	5256
50.00	12267	77.00	352	117.00	687	178.00	251
51.00	3684	78.00	253	118.00	280	191.00	97
52.00	93	79.00	2648	119.00	478	193.00	548
56.00	1133	80.00	654	128.00	429	209.00	189
57.00	1870	81.00	2592	129.00	92		
60.00	599	82.00	572	130.00	342		

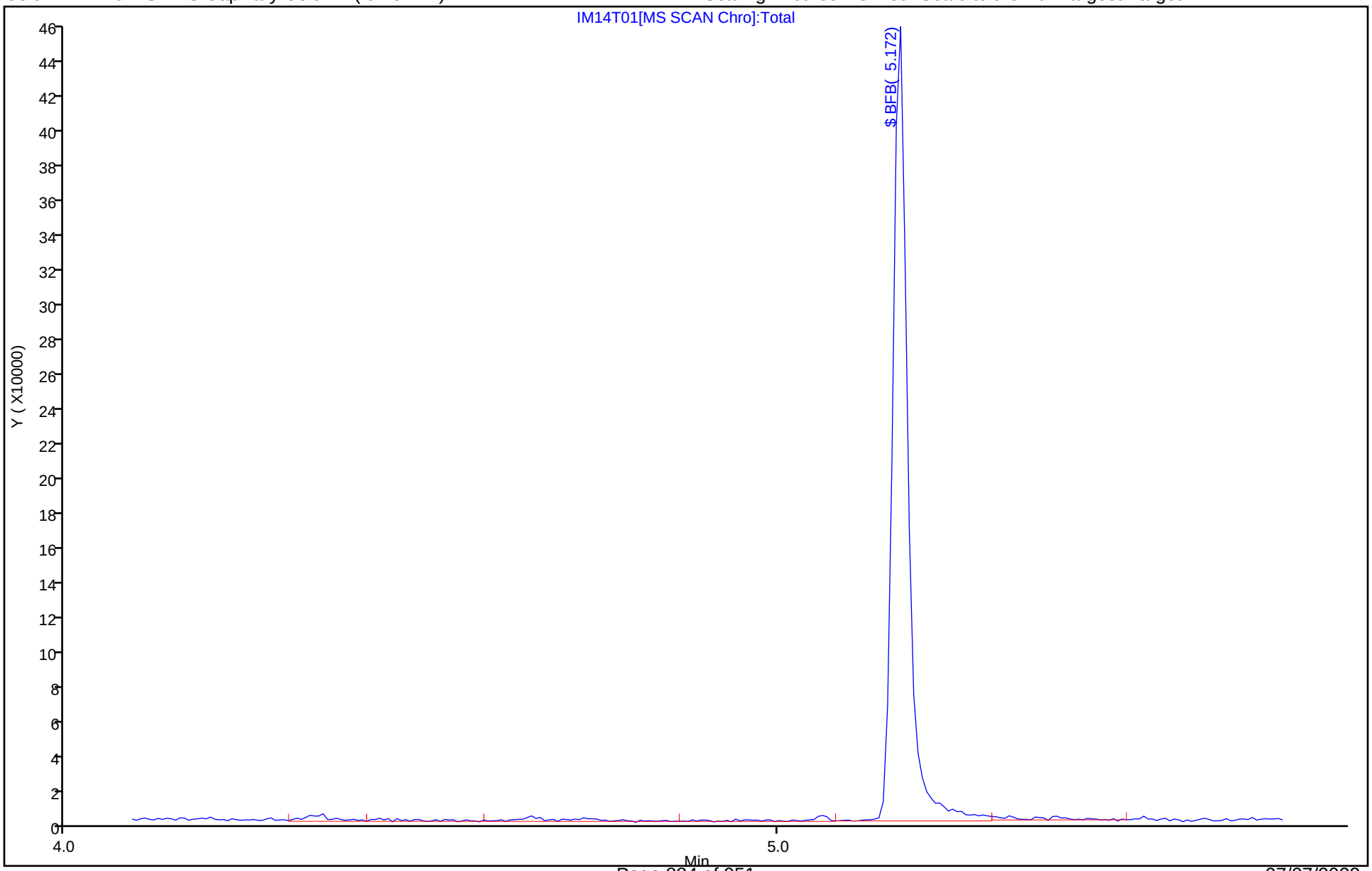
Report Date: 16-Mar-2022 10:12:27 Chrom Revision: 2.3 16-Feb-2022 17:52:00

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14T01.D

Injection Date:	14-Mar-2022 21:24:30	Instrument ID:	19930	Operator ID:	mec29284
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\20220630-60785.b\IU30T01.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	30-Jun-2022 09:25:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0060785-001				
Misc. Info.:	BFB				
Operator ID:	knk41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20220630-60785.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	30-Jun-2022 11:32:29	Calib Date:	15-Mar-2022 03:22:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1639				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 145 BFB	95	5.172	5.172	0.000	94	313368	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

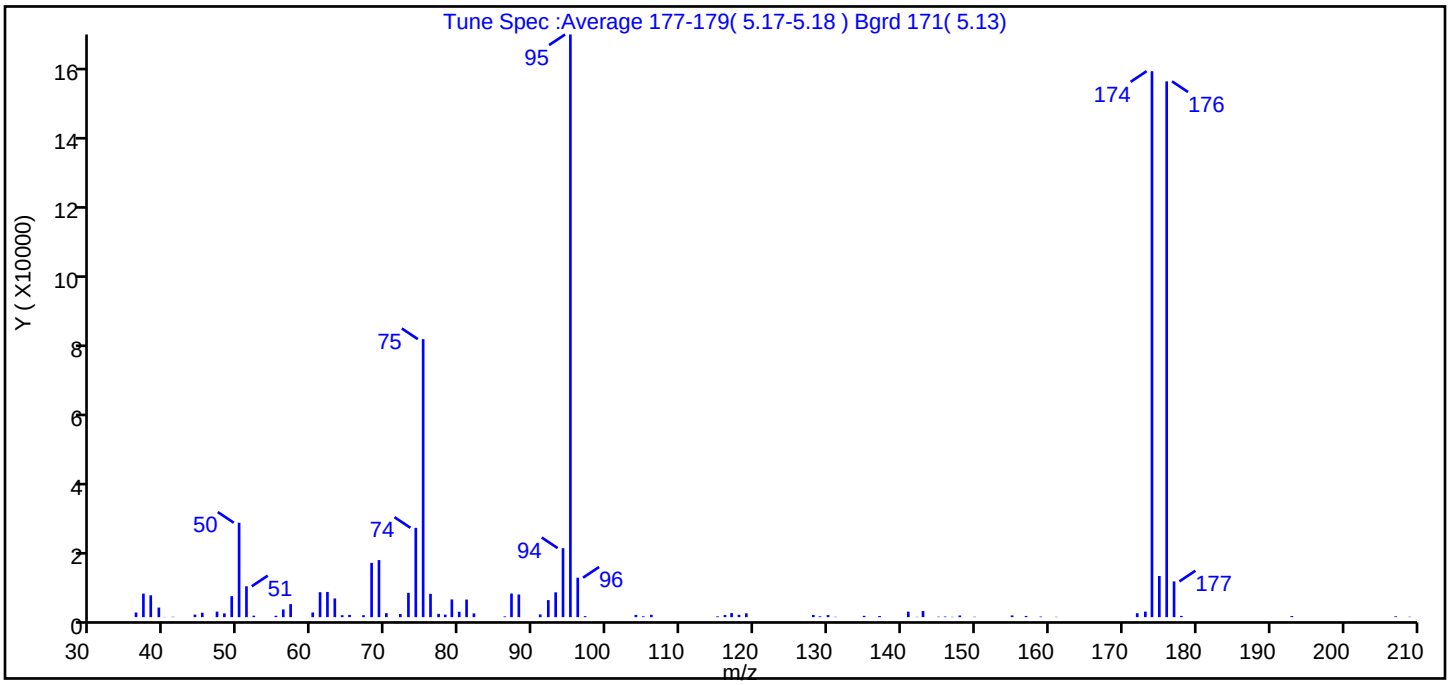
MSV_V_BFB_00008 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220630-60785.b\IU30T01.D
Injection Date: 30-Jun-2022 09:25:30 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

$ 145 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.2
75	30 to 60% of m/z 95	47.7
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.9 (1.0)
174	50 to 120% of m/z 95	93.7
175	5 to 9% of m/z 174	7.1 (7.5)
176	Greater than 95% but less than 101% of m/z 174	92.0 (98.1)
177	5 to 9% of m/z 176	6.1 (6.7)

Data File: \\chromfs\Lancaster\ChromData\19930\20220630-60785.b\IU30T01.D\8260 25ml HP31.rslt\spectra.d
Injection Date: 30-Jun-2022 09:25:30
Spectrum: Tune Spec :Average 177-179(5.17-5.18) Bgrd 171(5.13)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1339	64.00	565	92.00	4931	142.00	88
37.00	6812	65.00	661	93.00	7183	143.00	1765
38.00	6321	67.00	562	94.00	19968	145.00	127
39.00	2778	68.00	15705	95.00	168640	146.00	182
40.00	57	69.00	16520	96.00	11423	147.00	87
41.00	104	70.00	1137	97.00	294	148.00	477
44.00	731	72.00	894	104.00	645	150.00	110
45.00	1270	73.00	7034	105.00	235	155.00	498
47.00	1594	74.00	25848	106.00	679	157.00	350
48.00	1089	75.00	80464	115.00	233	159.00	174
49.00	6082	76.00	6747	116.00	623	161.00	90
50.00	27328	77.00	957	117.00	1185	172.00	1135
51.00	8932	78.00	718	118.00	672	173.00	1602
52.00	421	79.00	5126	119.00	1108	174.00	158016
55.00	395	80.00	1549	128.00	617	175.00	11905
56.00	2227	81.00	5091	129.00	230	176.00	155072
57.00	3783	82.00	1087	130.00	597	177.00	10342
60.00	1354	86.00	223	131.00	99	178.00	353
61.00	7223	87.00	6836	135.00	375	193.00	326
62.00	7293	88.00	6553	137.00	329	207.00	242
63.00	5404	91.00	781	141.00	1580	209.00	108

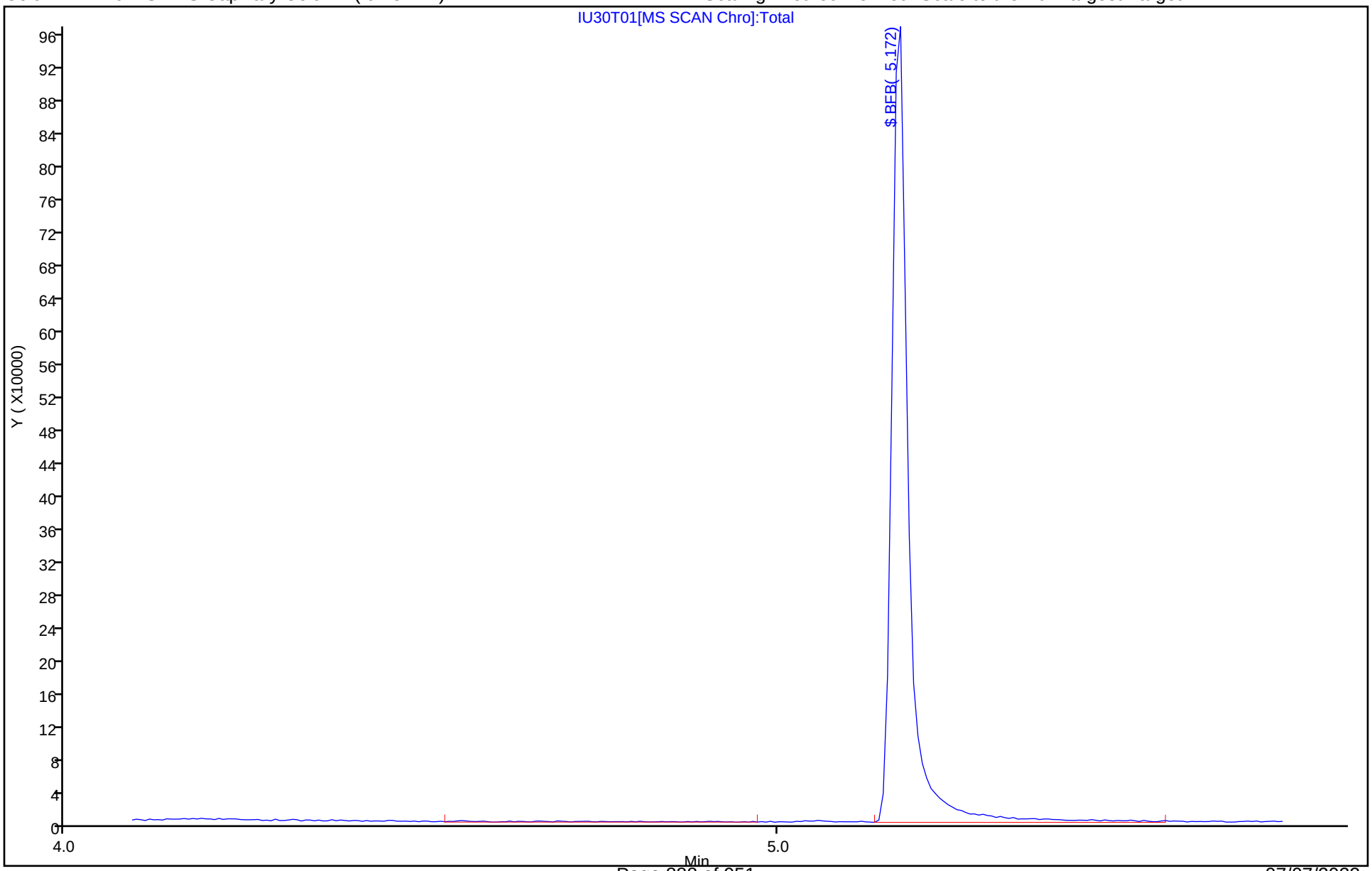
Report Date: 30-Jun-2022 11:32:29 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220630-60785.b\IU30T01.D

Injection Date:	30-Jun-2022 09:25:30	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



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-270125/6

Matrix: Water Lab File ID: GU28X05.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 11:29

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.: 270125 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-270125/6

Matrix: Water Lab File ID: GU28X05.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 11:29

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.: 270125 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)	111		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)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 28-Jun-2022 11:29:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060580-006
Misc. Info.: MB
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Jun-2022 19:33:24 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: DVW2 Date: 28-Jun-2022 12:13:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.886					ND	
2 Dichlorodifluoromethane	85		1.928					ND	
3 Chlorodifluoromethane	51		1.940					ND	
4 Dimethyl ether	45		2.002					ND	
5 Chloromethane	50		2.123					ND	
8 Vinyl chloride	62		2.233					ND	
7 Butadiene	39		2.239					ND	7
6 2-Chloro-1,1,1-Trifluoroethane	118		2.312					ND	
9 Bromomethane	94		2.562					ND	7
10 Chloroethane	64		2.641					ND	
12 Dichlorofluoromethane	67		2.879					ND	
13 Trichlorofluoromethane	101		2.928					ND	
15 Ethyl ether	59		3.172					ND	
14 Ethanol	45		3.190					ND	
17 1,2-Dichloro-1,1,2-trifluoroetha	67		3.263					ND	
18 Acrolein	56		3.349					ND	7
19 1,1-Dichloroethene	96		3.471					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.513					ND	
21 Acetone	43		3.532					ND	7
23 Iodomethane	142		3.666					ND	
24 Ethyl bromide	108		3.690					ND	
22 Isopropyl alcohol	45		3.745					ND	
25 Carbon disulfide	76		3.763					ND	
26 Acetonitrile	41		3.916					ND	
27 Methyl acetate	43		3.922					ND	
28 3-Chloro-1-propene	41		3.940					ND	
29 Methylene Chloride	84		4.123					ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.184	4.190	-0.006	70	189694	50.0	50.0	
31 2-Methyl-2-propanol	59		4.324					ND	
32 Acrylonitrile	53		4.476					ND	
33 Methyl tert-butyl ether	73		4.525					ND	

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
	34 trans-1,2-Dichloroethene	96		4.525					ND	
	35 Hexane	57		4.958					ND	
	36 Vinyl acetate	43		5.165					ND	
	37 1,1-Dichloroethane	63		5.190					ND	
	38 Isopropyl ether	45		5.257					ND	
	39 2-Chloro-1,3-butadiene	53		5.306					ND	
	40 Tert-butyl ethyl ether	59		5.793					ND	7
	41 2-Butanone (MEK)	43		6.001					ND	
	42 cis-1,2-Dichloroethene	96		6.031					ND	
	43 2,2-Dichloropropane	77		6.037					ND	7
	44 Ethyl acetate	43		6.055					ND	7
	45 Propionitrile	54		6.092					ND	
	47 Methyl acrylate	55		6.141					ND	
S	46 1,2-Dichloroethene, Total	100		6.155					ND	7
	48 Methacrylonitrile	67		6.299					ND	
	49 Chlorobromomethane	128		6.360					ND	
	50 Tetrahydrofuran	71		6.360					ND	
	51 Chloroform	83		6.513					ND	
$	52 Dibromofluoromethane (Surr)	113	6.720	6.726	-0.006	94	521050	10.0	10.8	
	53 1,1,1-Trichloroethane	97		6.738					ND	
	54 Cyclohexane	56		6.830					ND	
	56 Carbon tetrachloride	117		6.939					ND	
	55 1-Chlorobutane	56		6.940					ND	
	57 1,1-Dichloropropene	75		6.945					ND	
	58 Isobutyl alcohol	41		7.141					ND	
$	59 1,2-Dichloroethane-d4 (Surr)	102	7.171	7.177	-0.006	30	113015	10.0	11.1	
	60 Benzene	78		7.208					ND	
	61 1,2-Dichloroethane	62		7.281					ND	
	62 Isopropyl acetate	43		7.293					ND	
	63 Tert-amyl methyl ether	73		7.403					ND	
*	64 Fluorobenzene (IS)	96	7.610	7.616	-0.006	99	2009175	10.0	10.0	
	65 n-Heptane	43		7.628					ND	
	66 t-Amyl alcohol	73		7.842					ND	
	67 n-Butanol	56		8.025					ND	
	68 Trichloroethene	95		8.092					ND	
	69 Methylcyclohexane	83		8.396					ND	
	70 1,2-Dichloropropane	63		8.427					ND	
	71 2-ethoxy-2-methyl butane	87		8.439					ND	
	72 Methyl methacrylate	69		8.512					ND	
	74 Dibromomethane	93		8.531					ND	
	73 1,4-Dioxane	88		8.561					ND	
	75 n-Propyl acetate	61		8.598					ND	
	76 Dichlorobromomethane	83		8.774					ND	
	77 2-Nitropropane	41		9.049					ND	
	79 2-Chloroethyl vinyl ether	63		9.146					ND	
	80 1-Bromo-2-chloroethane	63		9.158					ND	
	78 Chloroacetonitrile	75		9.189					ND	
	81 cis-1,3-Dichloropropene	75		9.323					ND	
	82 4-Methyl-2-pentanone (MIBK)	43		9.500					ND	7
$	83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	2006157	10.0	10.0	
	84 Toluene	92		9.707					ND	
	96 trans-1,3-Dichloropropene	75		9.969					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
98 Ethyl methacrylate	69		10.036					ND	
S 97 1,3-Dichloropropene, Total	100		10.060					ND	7
99 1,1,2-Trichloroethane	97		10.177					ND	
100 Tetrachloroethene	166		10.262					ND	
101 1,3-Dichloropropane	76		10.341					ND	
102 2-Hexanone	43		10.396					ND	
103 n-Butyl acetate	43		10.530					ND	
104 Chlorodibromomethane	129		10.555					ND	
105 Ethylene Dibromide	107		10.664					ND	
* 106 Chlorobenzene-d5 (IS)	117	11.097	11.097	0.000	85	1568169	10.0	10.0	
107 1-Chlorohexane	91		11.109					ND	7
108 Chlorobenzene	112		11.122					ND	
110 1,1,1,2-Tetrachloroethane	131		11.207					ND	
111 Ethylbenzene	91		11.213					ND	
S 109 Xylenes, Total	106		11.245					ND	7
112 m-Xylene & p-Xylene	106		11.323					ND	
113 o-Xylene	106		11.652					ND	
114 Styrene	104		11.670					ND	
115 Bromoform	173		11.829					ND	
116 Isopropylbenzene	105		11.957					ND	
117 cis-1,4-Dichloro-2-butene	88		12.024					ND	
118 Cyclohexanone	55		12.054					ND	7
$ 119 4-Bromofluorobenzene (Surr)	95	12.097	12.097	0.000	92	706802	10.0	9.33	
120 1,1,2,2-Tetrachloroethane	83		12.201					ND	
121 Bromobenzene	156		12.213					ND	
122 trans-1,4-Dichloro-2-butene	53		12.225					ND	
123 1,2,3-Trichloropropane	110		12.243					ND	
124 N-Propylbenzene	91		12.280					ND	
125 2-Chlorotoluene	126		12.359					ND	
126 1,3,5-Trimethylbenzene	105		12.420					ND	
127 4-Chlorotoluene	126		12.451					ND	
128 tert-Butylbenzene	134		12.658					ND	
129 Pentachloroethane	167		12.688					ND	
130 1,2,4-Trimethylbenzene	105		12.700					ND	
131 sec-Butylbenzene	105		12.822					ND	
132 1,3-Dichlorobenzene	146		12.920					ND	7
133 4-Isopropyltoluene	119		12.926					ND	
* 134 1,4-Dichlorobenzene-d4	152	12.975	12.975	0.000	94	872766	10.0	10.0	
135 1,4-Dichlorobenzene	146		12.993					ND	7
136 1,2,3-Trimethylbenzene	120		13.005					ND	7
137 Benzyl chloride	126		13.072					ND	
138 p-Diethylbenzene	119		13.127					ND	
139 n-Butylbenzene	92		13.219					ND	
140 1,2-Dichlorobenzene	146		13.249					ND	
141 Hexachloroethane	201		13.499					ND	
142 1,2-Dibromo-3-Chloropropane	155		13.792					ND	
143 1,3,5-Trichlorobenzene	180		13.914					ND	
144 1,2,4-Trichlorobenzene	180		14.334					ND	
145 Hexachlorobutadiene	225		14.414					ND	7
146 Naphthalene	128		14.511					ND	7
147 1,2,3-Trichlorobenzene	180		14.651					ND	
148 2-Methylnaphthalene	142	15.285	15.261	0.024	1	2537		0.0284	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
149 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
192 Vinyl acetate (TIC)	1		0.000					ND	
190 Acetonitrile TIC	1		0.000					ND	
162 Pentachloroethane TIC	1		0.000					ND	
161 1,1-Dichloroacetone	1		0.000					ND	
159 Propargyl alcohol TIC	1		0.000					ND	
158 1,3-Dichloro-2-propanol TIC	1		0.000					ND	
191 Isopropyl alcohol TIC	1		0.000					ND	
157 tert-Butyl Formate	1		0.000					ND	
155 Methylal	1		0.000					ND	
154 n-Decane	57		0.000					ND	
153 Propene oxide	1		0.000					ND	
152 1-Bromo-3-Chloropropane	1		0.000					ND	
151 1-Chloropropane	1		0.000					ND	
150 2-Bromo-1-chloropropane	1		0.000					ND	
156 Dodecane	57		0.000					ND	
160 Pentane	43	2.916	2.971	-0.055	1	107			NR

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

MSV_29_826ISS_00034 Amount Added: 1.00 Units: uL Run Reagent

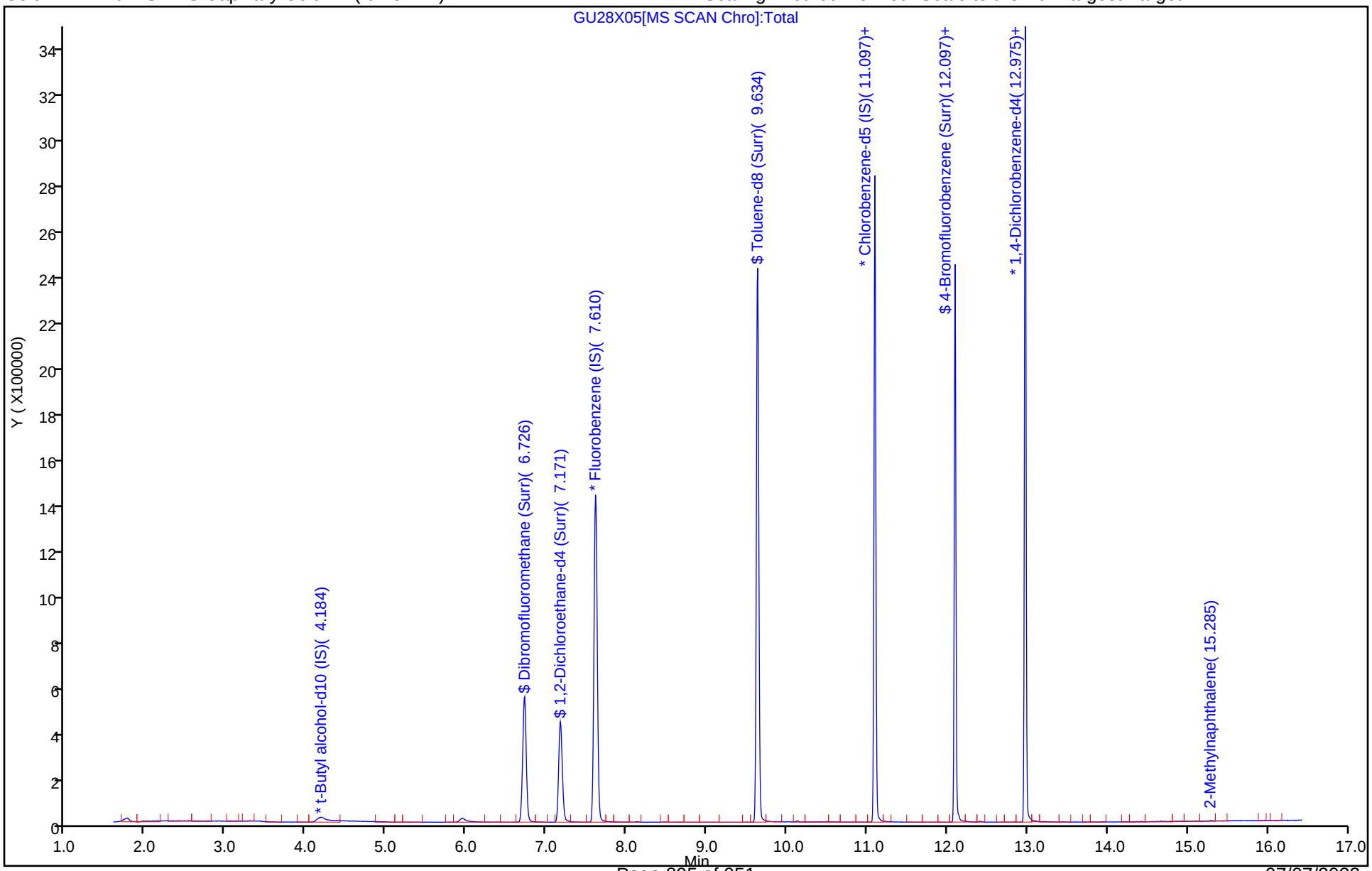
Report Date: 29-Jun-2022 13:52:24 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X05.D

Injection Date:	28-Jun-2022 11:29:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X05.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	28-Jun-2022 11:29:30	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0060580-006				
Misc. Info.:	MB				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	28-Jun-2022 19:33:24	Calib Date:	10-Jan-2022 23:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1674				

First Level Reviewer: DVW2 Date: 28-Jun-2022 12:13:13

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.8	108.05
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	11.1	110.88
$ 83 Toluene-d8 (Surr)	10.0	10.0	99.91
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.33	93.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-271084/6

Matrix: Water Lab File ID: IU30X05.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 06/30/2022 11:04

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 271084 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	ND		5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	ND		1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-271084/6

Matrix: Water Lab File ID: IU30X05.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 06/30/2022 11:04

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 271084 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)	108		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		80-120
2037-26-5	Toluene-d8 (Surr)	106		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220630-60785.b\IU30X05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 30-Jun-2022 11:04:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060785-006
Misc. Info.: MB
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220630-60785.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jun-2022 11:32:12 Calib Date: 15-Mar-2022 03:22:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 30-Jun-2022 11:30:31

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Dichlorodifluoromethane	85		1.965					ND	
2	Chlorodifluoromethane	51		1.971					ND	
3	Dimethyl ether	45		2.044					ND	
4	Chloromethane	50		2.166					ND	
5	Vinyl chloride	62		2.282					ND	
6	Butadiene	39		2.288					ND	7
7	Bromomethane	94		2.623					ND	
8	Chloroethane	64		2.696					ND	
9	Dichlorofluoromethane	67		2.940					ND	
10	Trichlorofluoromethane	101		3.001					ND	
11	Ethyl ether	59		3.251					ND	
12	1,2-Dichloro-1,1,2-trifluoroetha	67		3.336					ND	
13	Acrolein	56		3.416					ND	7
14	1,1-Dichloroethene	96		3.562					ND	
15	Acetone	43		3.586					ND	7
16	1,1,2-Trichloro-1,2,2-trifluoroe	101		3.605					ND	
17	Iodomethane	142		3.757					ND	
18	Ethyl bromide	108		3.787					ND	
19	Carbon disulfide	76		3.861					ND	7
20	Acetonitrile	41		4.001					ND	
21	Methyl acetate	43		4.007					ND	
22	3-Chloro-1-propene	41		4.037					ND	
23	Methylene Chloride	84		4.226					ND	
* 24	t-Butyl alcohol-d10 (IS)	65	4.227	4.239	-0.012	23	188173	50.0	50.0	
25	2-Methyl-2-propanol	59		4.354					ND	
26	Acrylonitrile	53		4.562					ND	
27	Methyl tert-butyl ether	73		4.629					ND	
28	trans-1,2-Dichloroethene	96		4.647					ND	
29	Hexane	57		5.068					ND	
30	Vinyl acetate	43		5.299					ND	
31	1,1-Dichloroethane	63		5.299					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Isopropyl ether	45		5.360					ND	
33 2-Chloro-1,3-butadiene	53		5.409					ND	
34 Tert-butyl ethyl ether	59		5.891					ND	
36 2-Butanone (MEK)	43		6.086					ND	
37 cis-1,2-Dichloroethene	96		6.129					ND	
38 2,2-Dichloropropane	77		6.141					ND	
S 35 1,2-Dichloroethene, Total	100		6.155					ND	7
39 Ethyl acetate	43		6.165					ND	
40 Propionitrile	54		6.171					ND	
41 Methyl acrylate	55		6.220					ND	
42 Methacrylonitrile	67		6.391					ND	
43 Chlorobromomethane	128		6.458					ND	
44 Tetrahydrofuran	71		6.476					ND	
45 Chloroform	83		6.604					ND	
$ 46 Dibromofluoromethane (Surr)	113	6.818	6.817	0.001	94	663850	10.0	9.51	
47 1,1,1-Trichloroethane	97		6.836					ND	
48 Cyclohexane	56		6.933					ND	
49 1-Chlorobutane	56		7.019					ND	
50 Carbon tetrachloride	117		7.043					ND	
51 1,1-Dichloropropene	75		7.043					ND	
52 Isobutyl alcohol	41		7.183					ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.269	7.275	-0.006	67	134430	10.0	10.8	
54 Benzene	78		7.305					ND	
56 1,2-Dichloroethane	62		7.372					ND	
55 Isopropyl acetate	43		7.390					ND	
57 Tert-amyl methyl ether	73		7.494					ND	
* 58 Fluorobenzene (IS)	96	7.708	7.707	0.001	99	2579072	10.0	10.0	
59 n-Heptane	43		7.720					ND	U
60 n-Butanol	56		8.061					ND	
61 Trichloroethene	95		8.183					ND	
62 Methylcyclohexane	83		8.488					ND	7
63 1,2-Dichloropropane	63		8.512					ND	
64 Methyl methacrylate	69		8.591					ND	
65 1,4-Dioxane	88		8.604					ND	
66 Dibromomethane	93		8.622					ND	
67 n-Propyl acetate	43		8.677					ND	
68 Dichlorobromomethane	83		8.854					ND	
69 2-Nitropropane	41		9.116					ND	
71 2-Chloroethyl vinyl ether	63		9.219					ND	
70 Chloroacetonitrile	75		9.226					ND	
72 1-Bromo-2-chloroethane	63		9.250					ND	
73 cis-1,3-Dichloropropene	75		9.402					ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.567					ND	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	94	2568954	10.0	10.6	
76 Toluene	92		9.780					ND	
78 trans-1,3-Dichloropropene	75		10.036					ND	
S 77 1,3-Dichloropropene, Total	100		10.060					ND	7
79 Ethyl methacrylate	69		10.097					ND	
80 1,1,2-Trichloroethane	97		10.237					ND	
81 Tetrachloroethene	166		10.329					ND	
82 1,3-Dichloropropane	76		10.402					ND	
83 2-Hexanone	43		10.451					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 n-Butyl acetate	43		10.579					ND	
85 Chlorodibromomethane	129		10.615					ND	
86 Ethylene Dibromide	107		10.731					ND	
* 87 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	1985393	10.0	10.0	
88 1-Chlorohexane	91		11.164					ND	7
90 Chlorobenzene	112		11.182					ND	
S 89 Xylenes, Total	106		11.245					ND	7
91 1,1,1,2-Tetrachloroethane	131		11.262					ND	
92 Ethylbenzene	91		11.268					ND	
93 m-Xylene & p-Xylene	106		11.384					ND	
94 o-Xylene	106		11.713					ND	
95 Styrene	104		11.725					ND	
96 Bromoform	173		11.883					ND	
97 Isopropylbenzene	105		12.012					ND	
98 cis-1,4-Dichloro-2-butene	88		12.060					ND	U
99 Cyclohexanone	55		12.097					ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.158	12.158	0.000	93	915657	10.0	9.77	
101 1,1,2,2-Tetrachloroethane	83		12.255					ND	
102 Bromobenzene	156		12.274					ND	
103 trans-1,4-Dichloro-2-butene	53		12.280					ND	
104 1,2,3-Trichloropropane	110		12.298					ND	
105 N-Propylbenzene	91		12.341					ND	
106 2-Chlorotoluene	126		12.414					ND	
107 1,3,5-Trimethylbenzene	105		12.475					ND	7
108 4-Chlorotoluene	126		12.505					ND	
109 tert-Butylbenzene	134		12.713					ND	7
110 Pentachloroethane	167		12.749					ND	
111 1,2,4-Trimethylbenzene	105		12.755					ND	7
112 sec-Butylbenzene	105		12.877					ND	7
113 1,3-Dichlorobenzene	146		12.981					ND	7
114 4-Isopropyltoluene	119		12.987					ND	7
* 115 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	94	1108317	10.0	10.0	
116 1,4-Dichlorobenzene	146		13.054					ND	7
117 1,2,3-Trimethylbenzene	120		13.060					ND	7
118 Benzyl chloride	126		13.127					ND	7
119 n-Butylbenzene	92		13.280					ND	7
120 1,2-Dichlorobenzene	146		13.310					ND	
121 Hexachloroethane	117		13.542					ND	
122 1,2-Dibromo-3-Chloropropane	155		13.853					ND	
123 1,3,5-Trichlorobenzene	180		13.981					ND	7
124 1,2,4-Trichlorobenzene	180		14.401					ND	7
125 Hexachlorobutadiene	225	14.487	14.487	0.000	90	2303		0.0444	
126 Naphthalene	128		14.584					ND	7
127 1,2,3-Trichlorobenzene	180	14.755	14.724	0.031	93	3281		0.0328	
128 Dodecane	57		0.000					ND	
205 1,1-Dichloroacetone	1		0.000					ND	
143 n-Decane	57		0.000					ND	
139 1-Bromo-3-Chloropropane	1		0.000					ND	
210 Hexachloroethane TIC	1		0.000					ND	
203 Propargyl alcohol TIC	1		0.000					ND	
202 1,3-Dichloro-2-propanol TIC	1		0.000					ND	
138 1,1-Dichloro-1-fluoroethane	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
137 2-Methylnaphthalene	142		0.000					ND	
135 p-Diethylbenzene	1		0.000					ND	
136 2-Chloro-1,1,1-Trifluoroethane	1		0.000					ND	
144 2-ethoxy-2-methyl butane	1		0.000					ND	
134 Isopropyl alcohol	45		0.000					ND	
133 t-Amyl alcohol	1		0.000					ND	
132 Methylal	1		0.000					ND	
131 tert-Butyl Formate	1		0.000					ND	
142 2-Bromo-1-chloropropane	1		0.000					ND	
206 Pentachloroethane TIC	1		0.000					ND	
204 Pentane	43		0.000					ND	
130 Chlorotrifluoroethene	1		0.000					ND	
207 Acetonitrile TIC	1		0.000					ND	
129 Propene oxide	1		0.000					ND	
141 1-Chloropropane	1		0.000					ND	
140 Ethanol	45		3.269					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_LLcentISS_00004 Amount Added: 5.00 Units: uL Run Reagent

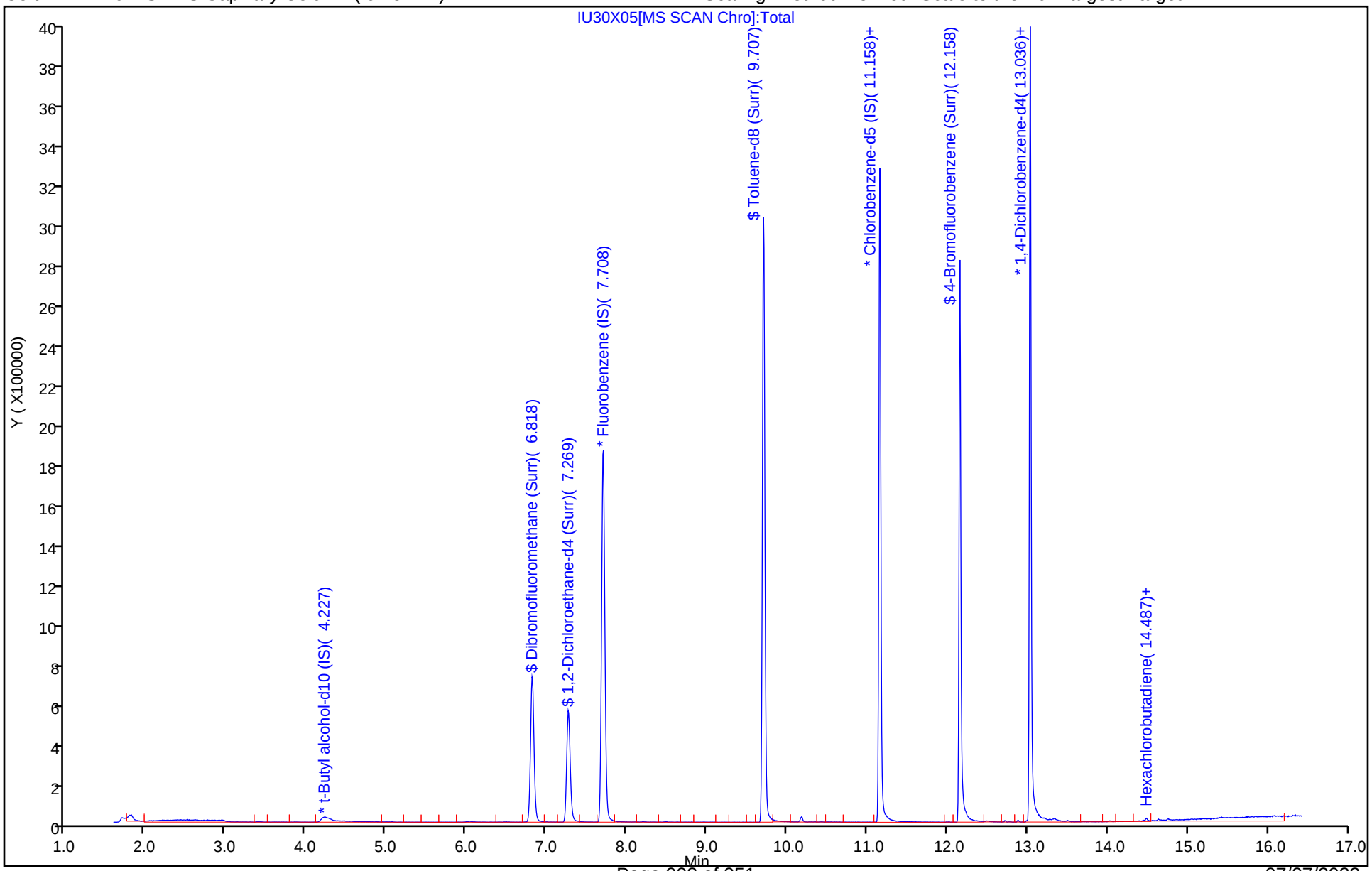
Report Date: 30-Jun-2022 11:32:26 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220630-60785.b\IU30X05.D

Injection Date:	30-Jun-2022 11:04:30	Instrument ID:	19930	Operator ID:	knk41612
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\20220630-60785.b\IU30X05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 30-Jun-2022 11:04:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060785-006
Misc. Info.: MB
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220630-60785.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jun-2022 11:32:12 Calib Date: 15-Mar-2022 03:22:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 30-Jun-2022 11:30:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	9.51	95.09
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.8	108.09
$ 75 Toluene-d8 (Surr)	10.0	10.6	106.33
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.77	97.72

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-270125/4

Matrix: Water Lab File ID: GU28X03.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 10:44

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 270125 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.40		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.17		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.22		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.48		0.50	0.080
75-34-3	1,1-Dichloroethane	5.06		0.50	0.10
75-35-4	1,1-Dichloroethene	4.95		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.41		0.50	0.080
107-06-2	1,2-Dichloroethane	5.28		0.50	0.070
78-87-5	1,2-Dichloropropane	5.39		0.50	0.10
78-93-3	2-Butanone (MEK)	60.5		5.0	1.0
591-78-6	2-Hexanone	62.0		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	61.9		5.0	1.0
67-64-1	Acetone	60.2		5.0	1.0
71-43-2	Benzene	5.24		0.50	0.10
74-97-5	Bromochloromethane	5.58		0.50	0.080
75-27-4	Bromodichloromethane	5.67		0.50	0.080
75-25-2	Bromoform	5.94		1.0	0.30
74-83-9	Bromomethane	5.42		0.50	0.10
75-15-0	Carbon disulfide	6.39		1.0	0.10
56-23-5	Carbon tetrachloride	5.26		0.50	0.10
108-90-7	Chlorobenzene	5.20		0.50	0.070
75-00-3	Chloroethane	5.46		0.50	0.10
67-66-3	Chloroform	5.22		0.50	0.090
74-87-3	Chloromethane	5.60		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	5.19		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.18		0.50	0.10
124-48-1	Dibromochloromethane	5.77		0.50	0.080
100-41-4	Ethylbenzene	5.01		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.02		0.50	0.080
75-09-2	Methylene Chloride	5.34		0.50	0.10
100-42-5	Styrene	5.04		0.50	0.070
127-18-4	Tetrachloroethene	5.11		0.50	0.20
108-88-3	Toluene	5.02		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-270125/4

Matrix: Water Lab File ID: GU28X03.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 10:44

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 270125 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	4.98		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.62		0.50	0.080
79-01-6	Trichloroethene	5.13		0.50	0.080
75-01-4	Vinyl chloride	5.45		0.50	0.10
1330-20-7	Xylenes, Total	15.2		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)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		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\16334\20220628-60580.b\GU28X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 28-Jun-2022 10:44:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060580-004
Misc. Info.: LCS
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 28-Jun-2022 12:13:26 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1640

First Level Reviewer: DVW2 Date: 28-Jun-2022 12:07:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.922	1.928	-0.006	99	272039	5.00	5.16	
5 Chloromethane	50	2.117	2.123	-0.006	99	337276	5.00	5.60	
8 Vinyl chloride	62	2.233	2.233	0.000	98	339257	5.00	5.45	
7 Butadiene	39	2.239	2.239	0.000	91	352111	5.00	5.47	
9 Bromomethane	94	2.562	2.562	0.000	90	248455	5.00	5.42	
10 Chloroethane	64	2.641	2.641	0.000	100	202435	5.00	5.46	
12 Dichlorofluoromethane	67	2.873	2.879	-0.006	97	470304	5.00	5.45	
13 Trichlorofluoromethane	101	2.934	2.928	0.006	98	418352	5.00	5.01	
15 Ethyl ether	59	3.178	3.172	0.006	91	207399	4.98	5.68	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.263	3.263	0.000	97	309190	5.00	5.21	
18 Acrolein	56	3.355	3.349	0.006	100	288181	37.5	37.9	
19 1,1-Dichloroethene	96	3.471	3.471	0.000	97	223358	5.00	4.95	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.519	3.513	0.006	89	213383	5.00	4.74	
21 Acetone	43	3.538	3.532	0.006	100	505565	62.5	60.2	
23 Iodomethane	142	3.666	3.666	0.000	98	402931	5.00	5.14	
24 Ethyl bromide	108	3.690	3.690	0.000	98	162728	4.89	4.24	
22 Isopropyl alcohol	45	3.769	3.745	0.024	95	30311	37.5	20.1	
25 Carbon disulfide	76	3.763	3.763	0.000	99	728126	5.00	6.39	
27 Methyl acetate	43	3.928	3.922	0.006	97	124648	5.00	5.04	M
28 3-Chloro-1-propene	41	3.940	3.940	0.000	92	314671	5.00	4.90	
29 Methylene Chloride	84	4.123	4.123	0.000	89	259584	5.00	5.34	
* 30 t-Butyl alcohol-d10 (IS)	65	4.190	4.190	0.000	74	182688	50.0	50.0	
31 2-Methyl-2-propanol	59	4.312	4.324	-0.012	95	102220	50.0	30.9	M
32 Acrylonitrile	53	4.470	4.476	-0.006	99	309795	25.0	27.7	
33 Methyl tert-butyl ether	73	4.525	4.525	0.000	93	619120	5.00	5.02	
34 trans-1,2-Dichloroethene	96	4.525	4.525	0.000	99	248678	5.00	4.98	
35 Hexane	57	4.964	4.958	0.006	90	277913	5.00	4.36	
37 1,1-Dichloroethane	63	5.196	5.190	0.006	96	427768	5.00	5.06	
38 Isopropyl ether	45	5.251	5.257	-0.006	93	697016	5.00	4.77	
39 2-Chloro-1,3-butadiene	53	5.306	5.306	0.000	89	339329	5.00	4.99	
40 Tert-butyl ethyl ether	59	5.793	5.793	0.000	97	685294	5.00	4.80	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	6.001	6.001	0.000	99	998155	62.5	60.5	
42 cis-1,2-Dichloroethene	96	6.031	6.031	0.000	81	283176	5.00	5.19	
43 2,2-Dichloropropane	77	6.043	6.037	0.006	84	361516	5.00	5.71	
45 Propionitrile	54	6.098	6.092	0.006	98	173253	37.5	40.1	
48 Methacrylonitrile	67	6.299	6.299	0.000	90	604823	37.5	38.0	
49 Chlorobromomethane	128	6.360	6.360	0.000	90	136829	5.00	5.58	
50 Tetrahydrofuran	71	6.372	6.360	0.012	77	123063	25.0	26.4	
51 Chloroform	83	6.513	6.513	0.000	92	448574	5.00	5.22	
$ 52 Dibromofluoromethane (Surr)	113	6.726	6.726	0.000	94	539688	10.0	10.4	
53 1,1,1-Trichloroethane	97	6.732	6.738	-0.006	98	379801	5.00	5.17	
54 Cyclohexane	56	6.830	6.830	0.000	89	344699	5.00	4.34	
56 Carbon tetrachloride	117	6.945	6.939	0.006	85	333124	5.00	5.26	
57 1,1-Dichloropropene	75	6.945	6.945	0.000	97	340674	5.00	5.08	
58 Isobutyl alcohol	41	7.141	7.141	0.000	95	134361	125.0	129.5	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.177	0.000	95	118611	10.0	10.8	
60 Benzene	78	7.214	7.208	0.006	96	1058048	5.00	5.24	
61 1,2-Dichloroethane	62	7.281	7.281	0.000	97	288894	5.00	5.28	
63 Tert-amyl methyl ether	73	7.403	7.403	0.000	99	662315	5.00	5.03	
* 64 Fluorobenzene (IS)	96	7.616	7.616	0.000	99	2171602	10.0	10.0	
65 n-Heptane	43	7.622	7.628	-0.006	89	309075	5.00	4.67	
67 n-Butanol	56	8.025	8.025	0.000	90	246899	250.0	227.6	
68 Trichloroethene	95	8.092	8.092	0.000	97	277573	5.00	5.13	
69 Methylcyclohexane	83	8.403	8.396	0.007	91	397874	5.00	4.46	
70 1,2-Dichloropropane	63	8.421	8.427	-0.006	97	274399	5.00	5.39	
71 2-ethoxy-2-methyl butane	87	8.439	8.439	0.000	95	385848	5.00	5.18	
72 Methyl methacrylate	69	8.518	8.512	0.006	95	142841	5.00	4.71	
74 Dibromomethane	93	8.531	8.531	0.000	96	146971	5.00	5.71	
73 1,4-Dioxane	88	8.567	8.561	0.006	73	27383	125.0	119.1	
76 Dichlorobromomethane	83	8.768	8.774	-0.006	99	333040	5.00	5.67	
77 2-Nitropropane	41	9.049	9.049	0.000	98	37215	5.00	5.49	
80 1-Bromo-2-chloroethane	63	9.158	9.158	0.000	98	300210	5.00	5.57	
81 cis-1,3-Dichloropropene	75	9.323	9.323	0.000	97	382373	5.00	5.18	
82 4-Methyl-2-pentanone (MIBK)	43	9.506	9.500	0.006	95	2472261	62.5	61.9	
$ 83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	2214332	10.0	10.3	
84 Toluene	92	9.707	9.707	0.000	98	672611	5.00	5.02	
96 trans-1,3-Dichloropropene	75	9.975	9.969	0.006	91	348343	5.00	5.62	
98 Ethyl methacrylate	69	10.036	10.036	0.000	87	282979	5.00	5.09	
99 1,1,2-Trichloroethane	97	10.177	10.177	0.000	90	215397	5.00	5.48	
100 Tetrachloroethene	166	10.262	10.262	0.000	97	319020	5.00	5.11	
101 1,3-Dichloropropane	76	10.341	10.341	0.000	88	350252	5.00	5.27	
102 2-Hexanone	43	10.396	10.396	0.000	95	1781908	62.5	62.0	
104 Chlorodibromomethane	129	10.555	10.555	0.000	89	255133	5.00	5.77	
105 Ethylene Dibromide	107	10.664	10.664	0.000	99	205204	5.00	5.41	
* 106 Chlorobenzene-d5 (IS)	117	11.097	11.097	0.000	84	1683266	10.0	10.0	
107 1-Chlorohexane	91	11.109	11.109	0.000	95	359401	5.00	4.69	
108 Chlorobenzene	112	11.122	11.122	0.000	96	809787	5.00	5.20	
110 1,1,1,2-Tetrachloroethane	131	11.207	11.207	0.000	95	279513	5.00	5.40	
111 Ethylbenzene	91	11.213	11.213	0.000	98	1311242	5.00	5.01	
112 m-Xylene & p-Xylene	106	11.329	11.323	0.006	100	1042242	10.0	10.3	
113 o-Xylene	106	11.658	11.652	0.006	96	493715	5.00	4.92	
114 Styrene	104	11.670	11.670	0.000	94	856086	5.00	5.04	
115 Bromoform	173	11.829	11.829	0.000	97	156691	5.00	5.94	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 Isopropylbenzene	105	11.957	11.957	0.000	96	1270290	5.00	4.92	
$ 119 4-Bromofluorobenzene (Surr)	95	12.097	12.097	0.000	93	809378	10.0	9.95	
120 1,1,2,2-Tetrachloroethane	83	12.201	12.201	0.000	93	289163	5.00	5.22	
121 Bromobenzene	156	12.213	12.213	0.000	96	353276	5.00	5.05	
122 trans-1,4-Dichloro-2-butene	53	12.225	12.225	0.000	92	274407	25.0	20.4	
123 1,2,3-Trichloropropane	110	12.243	12.243	0.000	81	78157	5.00	5.32	
124 N-Propylbenzene	91	12.280	12.280	0.000	99	1578726	5.00	4.78	
125 2-Chlorotoluene	126	12.359	12.359	0.000	97	330731	5.00	4.81	
126 1,3,5-Trimethylbenzene	105	12.420	12.420	0.000	94	1120605	5.00	4.75	
127 4-Chlorotoluene	126	12.451	12.451	0.000	96	348298	5.00	4.89	
128 tert-Butylbenzene	134	12.658	12.658	0.000	93	240276	5.00	4.52	
129 Pentachloroethane	167	12.688	12.688	0.000	90	215480	5.00	5.28	
130 1,2,4-Trimethylbenzene	105	12.700	12.700	0.000	97	1179804	5.00	4.84	
131 sec-Butylbenzene	105	12.822	12.822	0.000	94	1459968	5.00	4.85	
132 1,3-Dichlorobenzene	146	12.920	12.920	0.000	98	690672	5.00	4.86	
133 4-Isopropyltoluene	119	12.926	12.926	0.000	97	1288813	5.00	4.79	
* 134 1,4-Dichlorobenzene-d4	152	12.975	12.975	0.000	93	1002033	10.0	10.0	
135 1,4-Dichlorobenzene	146	12.993	12.993	0.000	95	722815	5.00	4.96	
136 1,2,3-Trimethylbenzene	120	13.005	13.005	0.000	98	537535	5.00	4.82	
137 Benzyl chloride	126	13.072	13.072	0.000	98	112750	5.00	5.82	
138 p-Diethylbenzene	119	13.127	13.127	0.000	92	770498	5.00	4.83	
139 n-Butylbenzene	92	13.219	13.219	0.000	94	659032	5.00	4.81	
140 1,2-Dichlorobenzene	146	13.249	13.249	0.000	99	654523	5.00	4.86	
142 1,2-Dibromo-3-Chloropropane	155	13.792	13.792	0.000	90	40086	5.00	4.98	
143 1,3,5-Trichlorobenzene	180	13.914	13.914	0.000	98	532500	5.00	4.62	
144 1,2,4-Trichlorobenzene	180	14.334	14.334	0.000	94	457041	5.00	4.40	
145 Hexachlorobutadiene	225	14.414	14.414	0.000	96	246144	5.00	4.60	
146 Naphthalene	128	14.511	14.511	0.000	97	809856	5.00	4.43	
147 1,2,3-Trichlorobenzene	180	14.651	14.651	0.000	96	422758	5.00	4.68	
148 2-Methylnaphthalene	142	15.261	15.261	0.000	92	473910	5.00	4.62	
160 Pentane	43	2.971	2.971	0.000	97	343328	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00061	Amount Added: 12.50	Units: uL	
MSV_LCS_ACROL_00064	Amount Added: 12.50	Units: uL	
LCS_ETBR_00003	Amount Added: 12.50	Units: uL	
MSV_QC_Gas826_00087	Amount Added: 12.50	Units: uL	
MSV_LCS_EE_00003	Amount Added: 12.50	Units: uL	
MSV_LCS_Penta_00017	Amount Added: 12.50	Units: uL	
MSV_29_826ISS_00034	Amount Added: 1.00	Units: uL	Run Reagent

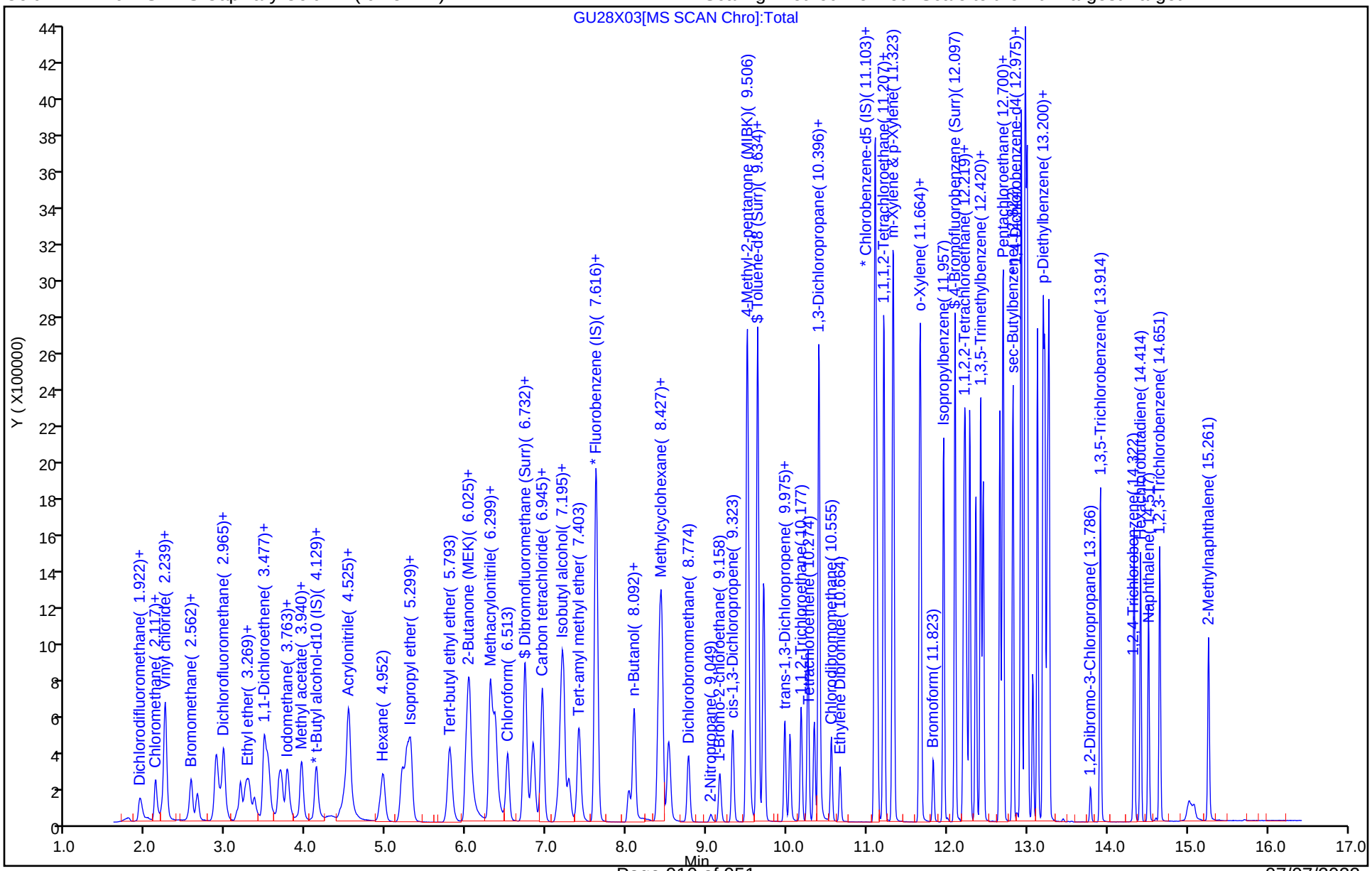
Report Date: 28-Jun-2022 12:13:31 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X03.D

Injection Date:	28-Jun-2022 10:44:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X03.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	28-Jun-2022 10:44:30	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0060580-004				
Misc. Info.:	LCS				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	28-Jun-2022 12:13:26	Calib Date:	10-Jan-2022 23:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1640				

First Level Reviewer: DVW2 Date: 28-Jun-2022 12:07:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.4	103.55
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.8	107.67
$ 83 Toluene-d8 (Surr)	10.0	10.3	102.74
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.95	99.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-271084/4

Matrix: Water Lab File ID: IU30X03.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 06/30/2022 10:21

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.: 271084 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.96		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.52		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.92		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.48		0.50	0.080
75-34-3	1,1-Dichloroethane	4.92		0.50	0.10
75-35-4	1,1-Dichloroethene	4.89		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.46		0.50	0.080
107-06-2	1,2-Dichloroethane	5.05		0.50	0.070
78-87-5	1,2-Dichloropropane	5.23		0.50	0.10
78-93-3	2-Butanone (MEK)	71.5		5.0	1.0
591-78-6	2-Hexanone	73.8		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	69.5		5.0	1.0
67-64-1	Acetone	62.7		5.0	1.0
71-43-2	Benzene	5.08		0.50	0.10
74-97-5	Bromochloromethane	4.77		0.50	0.080
75-27-4	Bromodichloromethane	5.10		0.50	0.080
75-25-2	Bromoform	5.03		1.0	0.30
74-83-9	Bromomethane	3.84		0.50	0.10
75-15-0	Carbon disulfide	5.78		1.0	0.10
56-23-5	Carbon tetrachloride	4.37		0.50	0.10
108-90-7	Chlorobenzene	5.12		0.50	0.070
75-00-3	Chloroethane	4.47		0.50	0.10
67-66-3	Chloroform	4.74		0.50	0.090
74-87-3	Chloromethane	4.85		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	4.80		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.94		0.50	0.10
124-48-1	Dibromochloromethane	5.17		0.50	0.080
100-41-4	Ethylbenzene	5.28		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.02		0.50	0.080
75-09-2	Methylene Chloride	5.07		0.50	0.10
100-42-5	Styrene	5.22		0.50	0.070
127-18-4	Tetrachloroethene	4.61		0.50	0.20
108-88-3	Toluene	5.40		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-271084/4

Matrix: Water Lab File ID: IU30X03.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 06/30/2022 10:21

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.: 271084 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	4.67		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.77		0.50	0.080
79-01-6	Trichloroethene	4.68		0.50	0.080
75-01-4	Vinyl chloride	4.25		0.50	0.10
1330-20-7	Xylenes, Total	15.2		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)	94		80-120
2037-26-5	Toluene-d8 (Surr)	107		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20220630-60785.b\IU30X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 30-Jun-2022 10:21:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060785-004
Misc. Info.: LCS
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220630-60785.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jun-2022 11:32:12 Calib Date: 15-Mar-2022 03:22:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 30-Jun-2022 10:47:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.965	1.965	0.000	99	405604	5.00	3.99	
4 Chloromethane	50	2.166	2.166	0.000	99	508630	5.00	4.85	
5 Vinyl chloride	62	2.282	2.282	0.000	97	470874	5.00	4.25	
6 Butadiene	39	2.288	2.288	0.000	90	454295	5.00	4.19	
7 Bromomethane	94	2.617	2.623	-0.006	90	351829	5.00	3.84	
8 Chloroethane	64	2.696	2.696	0.000	100	301084	5.00	4.47	
9 Dichlorofluoromethane	67	2.940	2.940	0.000	97	719086	5.00	4.24	
10 Trichlorofluoromethane	101	3.007	3.001	0.006	97	636848	5.00	3.87	
11 Ethyl ether	59	3.245	3.251	-0.006	89	263302	4.98	5.79	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.336	3.336	0.000	91	449436	5.00	4.75	
13 Acrolein	56	3.422	3.416	0.006	99	289104	37.5	38.5	
14 1,1-Dichloroethene	96	3.562	3.562	0.000	98	349949	5.00	4.89	
15 Acetone	43	3.586	3.586	0.000	99	636666	62.5	62.7	
16 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.605	3.605	0.000	91	335874	5.00	4.47	
17 Iodomethane	142	3.757	3.757	0.000	99	673210	5.00	4.59	
18 Ethyl bromide	108	3.788	3.787	0.001	99	264719	4.89	3.88	
19 Carbon disulfide	76	3.861	3.861	0.000	99	927376	5.00	5.78	
21 Methyl acetate	43	4.013	4.007	0.006	97	160349	5.00	6.48	M
22 3-Chloro-1-propene	41	4.038	4.037	0.001	91	525450	5.00	5.19	
23 Methylene Chloride	84	4.227	4.226	0.001	90	379164	5.00	5.07	
* 24 t-Butyl alcohol-d10 (IS)	65	4.233	4.239	-0.006	96	187249	50.0	50.0	M
25 2-Methyl-2-propanol	59	4.348	4.354	-0.006	99	176620	50.0	47.1	
26 Acrylonitrile	53	4.562	4.562	0.000	97	374494	25.0	31.3	
27 Methyl tert-butyl ether	73	4.635	4.629	0.006	95	937338	5.00	5.02	
28 trans-1,2-Dichloroethene	96	4.647	4.647	0.000	99	378655	5.00	4.67	
29 Hexane	57	5.068	5.068	0.000	92	453821	5.00	4.62	
31 1,1-Dichloroethane	63	5.300	5.299	0.001	96	682684	5.00	4.92	
32 Isopropyl ether	45	5.360	5.360	0.000	93	1095694	5.00	5.06	
33 2-Chloro-1,3-butadiene	53	5.409	5.409	0.000	91	566032	5.00	5.01	
34 Tert-butyl ethyl ether	59	5.897	5.891	0.006	97	1084996	5.00	4.92	
36 2-Butanone (MEK)	43	6.092	6.086	0.006	99	1258561	62.5	71.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 cis-1,2-Dichloroethene	96	6.129	6.129	0.001	81	444462	5.00	4.80	
38 2,2-Dichloropropane	77	6.141	6.141	0.000	88	618079	5.00	4.80	
40 Propionitrile	54	6.177	6.171	0.006	98	204256	37.5	45.3	
42 Methacrylonitrile	67	6.391	6.391	0.000	91	774489	37.5	43.0	
43 Chlorobromomethane	128	6.458	6.458	0.000	90	202755	5.00	4.77	
44 Tetrahydrofuran	71	6.470	6.476	-0.006	76	150850	25.0	30.3	
45 Chloroform	83	6.604	6.604	0.000	93	708602	5.00	4.74	
$ 46 Dibromofluoromethane (Surr)	113	6.818	6.817	0.001	94	693826	10.0	9.40	
47 1,1,1-Trichloroethane	97	6.836	6.836	0.000	98	655169	5.00	4.52	
48 Cyclohexane	56	6.933	6.933	0.000	89	569296	5.00	4.67	
50 Carbon tetrachloride	117	7.043	7.043	0.000	89	585857	5.00	4.37	
51 1,1-Dichloropropene	75	7.043	7.043	0.000	95	553847	5.00	4.95	
52 Isobutyl alcohol	41	7.189	7.183	0.006	92	161838	125.0	128.0	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.269	7.275	-0.006	84	138222	10.0	10.5	
54 Benzene	78	7.299	7.305	-0.006	96	1631821	5.00	5.08	
56 1,2-Dichloroethane	62	7.378	7.372	0.006	98	452053	5.00	5.05	
57 Tert-amyl methyl ether	73	7.494	7.494	0.000	99	1000039	5.00	4.86	
* 58 Fluorobenzene (IS)	96	7.701	7.707	-0.006	99	2726184	10.0	10.0	
59 n-Heptane	43	7.720	7.720	0.000	91	470185	5.00	4.48	
60 n-Butanol	56	8.073	8.061	0.012	89	283350	250.0	283.3	
61 Trichloroethene	95	8.183	8.183	0.000	97	431512	5.00	4.68	
62 Methylcyclohexane	83	8.494	8.488	0.006	91	648402	5.00	4.41	
63 1,2-Dichloropropane	63	8.512	8.512	0.000	95	402946	5.00	5.23	
64 Methyl methacrylate	69	8.598	8.591	0.007	88	185421	5.00	5.43	
65 1,4-Dioxane	88	8.604	8.604	0.000	30	35313	125.0	137.0	M
66 Dibromomethane	93	8.622	8.622	0.000	94	207362	5.00	4.87	
68 Dichlorobromomethane	83	8.854	8.854	0.000	99	518324	5.00	5.10	
69 2-Nitropropane	41	9.122	9.116	0.006	98	52486	5.00	4.95	
72 1-Bromo-2-chloroethane	63	9.250	9.250	0.000	98	423600	5.00	5.82	
73 cis-1,3-Dichloropropene	75	9.402	9.402	0.000	96	591867	5.00	4.94	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	96	3234441	62.5	69.5	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2760224	10.0	10.7	
76 Toluene	92	9.780	9.780	0.000	98	1079292	5.00	5.40	
78 trans-1,3-Dichloropropene	75	10.036	10.036	0.000	92	517779	5.00	5.77	
79 Ethyl methacrylate	69	10.097	10.097	0.000	89	384126	5.00	5.52	
80 1,1,2-Trichloroethane	97	10.238	10.237	0.001	91	300089	5.00	5.48	
81 Tetrachloroethene	166	10.335	10.329	0.006	98	529404	5.00	4.61	
82 1,3-Dichloropropane	76	10.402	10.402	0.000	88	504346	5.00	5.73	
83 2-Hexanone	43	10.451	10.451	0.000	96	2306931	62.5	73.8	
85 Chlorodibromomethane	129	10.616	10.615	0.001	90	383780	5.00	5.17	
86 Ethylene Dibromide	107	10.731	10.731	0.000	99	290129	5.00	5.46	
* 87 Chlorobenzene-d5 (IS)	117	11.158	11.158	0.000	85	2116878	10.0	10.0	
88 1-Chlorohexane	91	11.164	11.164	0.000	96	588118	5.00	4.86	
90 Chlorobenzene	112	11.183	11.182	0.000	96	1211028	5.00	5.12	
91 1,1,1,2-Tetrachloroethane	131	11.268	11.262	0.006	94	432550	5.00	4.96	
92 Ethylbenzene	91	11.268	11.268	0.000	98	2086579	5.00	5.28	
93 m-Xylene & p-Xylene	106	11.384	11.384	0.000	100	1644314	10.0	10.2	
94 o-Xylene	106	11.713	11.713	0.000	96	789219	5.00	4.96	
95 Styrene	104	11.725	11.725	0.000	93	1294579	5.00	5.22	
96 Bromoform	173	11.884	11.883	0.001	97	229872	5.00	5.03	
97 Isopropylbenzene	105	12.012	12.012	0.000	96	2124962	5.00	5.11	
$ 100 4-Bromofluorobenzene (Surr)	95	12.158	12.158	0.000	94	1009888	10.0	10.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 1,1,2,2-Tetrachloroethane	83	12.255	12.255	0.000	94	379191	5.00	5.92	
102 Bromobenzene	156	12.274	12.274	0.000	95	520787	5.00	5.11	
103 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	92	407031	25.0	24.2	
104 1,2,3-Trichloropropane	110	12.298	12.298	0.000	81	104775	5.00	5.52	
105 N-Propylbenzene	91	12.341	12.341	0.000	99	2485671	5.00	5.59	
106 2-Chlorotoluene	126	12.414	12.414	0.000	97	505319	5.00	5.17	
107 1,3,5-Trimethylbenzene	105	12.475	12.475	0.000	94	1757279	5.00	5.34	
108 4-Chlorotoluene	126	12.512	12.505	0.007	97	512075	5.00	5.13	
109 tert-Butylbenzene	134	12.713	12.713	0.000	93	395237	5.00	4.99	
111 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	1787828	5.00	5.39	
112 sec-Butylbenzene	105	12.877	12.877	0.000	94	2287182	5.00	5.45	
113 1,3-Dichlorobenzene	146	12.981	12.981	0.000	98	998080	5.00	5.03	
114 4-Isopropyltoluene	119	12.987	12.987	0.000	97	1977285	5.00	5.23	
* 115 1,4-Dichlorobenzene-d4	152	13.036	13.036	0.000	94	1211077	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.054	13.054	0.000	96	1022421	5.00	5.04	
117 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	98	787820	5.00	5.14	
118 Benzyl chloride	126	13.127	13.127	0.000	98	152140	5.00	5.87	
119 n-Butylbenzene	92	13.280	13.280	0.000	97	921601	5.00	5.50	
120 1,2-Dichlorobenzene	146	13.316	13.310	0.006	99	924816	5.00	5.11	
122 1,2-Dibromo-3-Chloropropane	155	13.859	13.853	0.006	88	53947	5.00	5.26	
123 1,3,5-Trichlorobenzene	180	13.981	13.981	0.000	97	693456	5.00	4.68	
124 1,2,4-Trichlorobenzene	180	14.401	14.401	0.000	94	591410	5.00	4.74	
125 Hexachlorobutadiene	225	14.487	14.487	0.000	97	235046	5.00	4.15	
126 Naphthalene	128	14.584	14.584	0.000	97	1133346	5.00	5.31	
127 1,2,3-Trichlorobenzene	180	14.724	14.724	0.000	96	526306	5.00	4.81	
137 2-Methylnaphthalene	142		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
134 Isopropyl alcohol	45		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

LCS_ETBR_00003	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00064	Amount Added:	12.50	Units: uL	
MSV_LCS_VOC#1_00061	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00087	Amount Added:	12.50	Units: uL	
MSV_LCS_EE_00003	Amount Added:	12.50	Units: uL	
MSV_LLcentISS_00004	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 30-Jun-2022 11:32:18 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20220630-60785.b\IU30X03.D

Injection Date: 30-Jun-2022 10:21:30 Instrument ID: 19930 Operator ID: knk41612

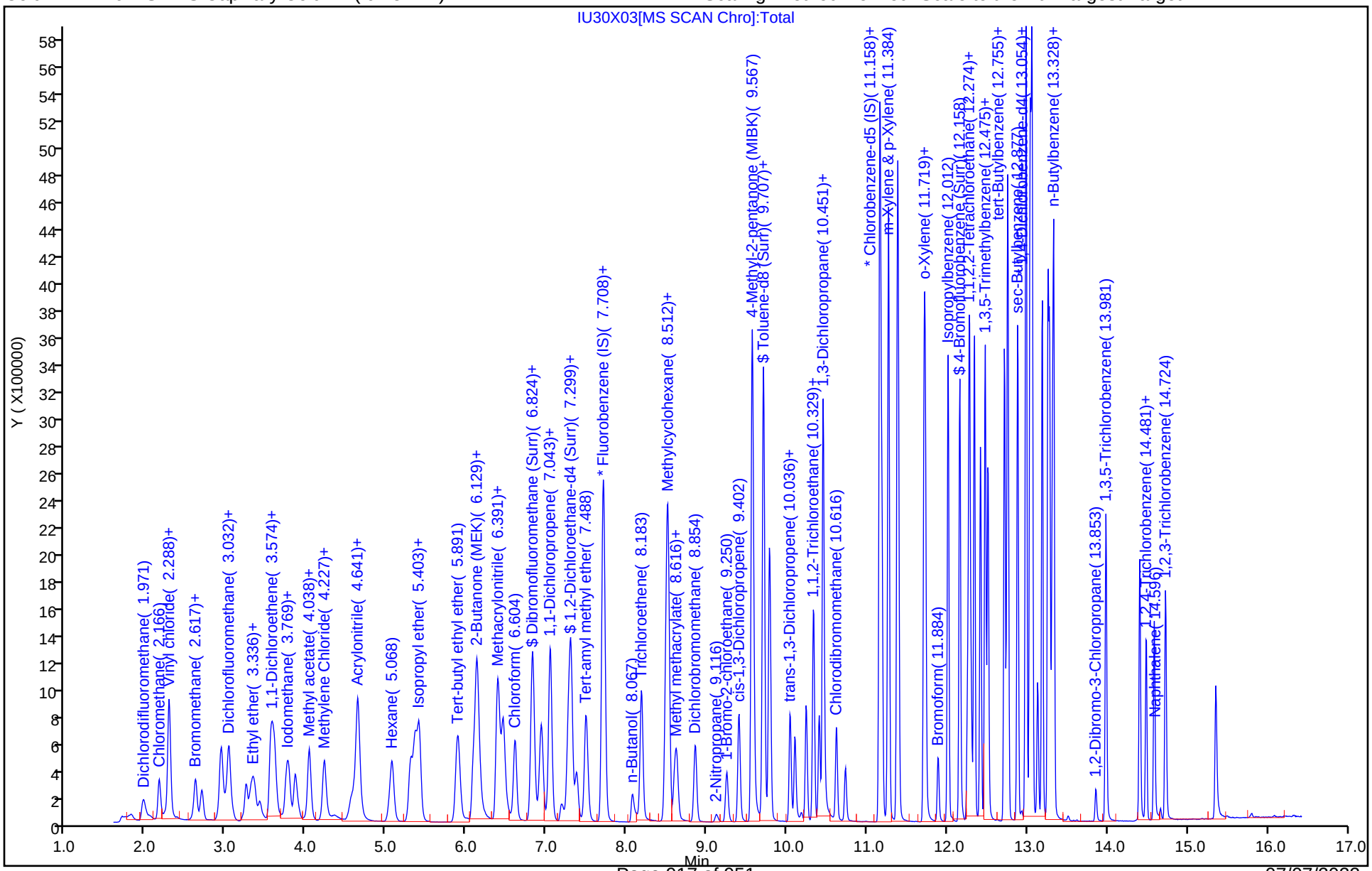
Lims ID: LCS Worklist Smp#: 4

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\20220630-60785.b\IU30X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 30-Jun-2022 10:21:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060785-004
Misc. Info.: LCS
Operator ID: knk41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20220630-60785.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 30-Jun-2022 11:32:12 Calib Date: 15-Mar-2022 03:22:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20220314-52441.b\IM14I37.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1639

First Level Reviewer: DVW2 Date: 30-Jun-2022 10:47:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	9.40	94.02
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.14
$ 75 Toluene-d8 (Surr)	10.0	10.7	107.15
$ 100 4-Bromofluorobenzene (Surr)	10.0	10.1	101.09

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

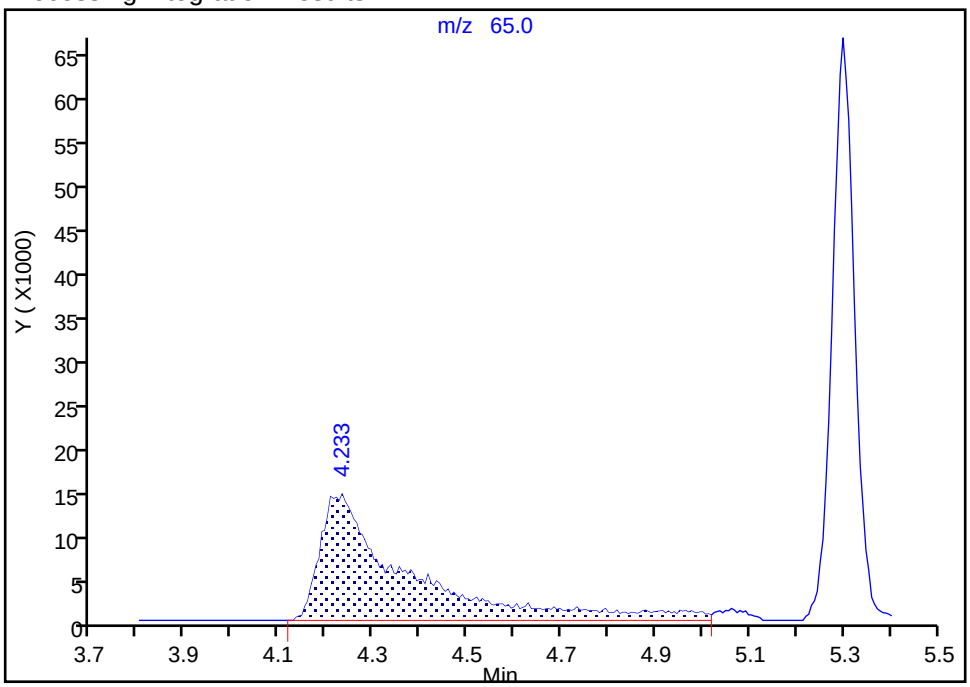
Data File:	\\chromfs\Lancaster\ChromData\19930\20220630-60785.b\IU30X03.D				
Injection Date:	30-Jun-2022 10:21:30	Instrument ID:	19930		
Lims ID:	LCS				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 24 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

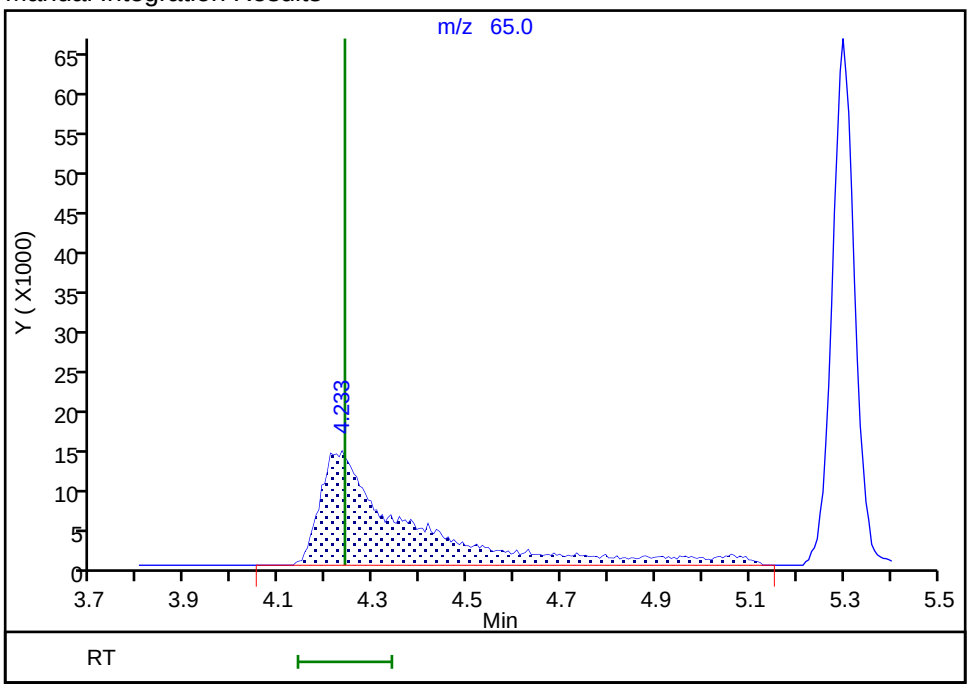
Processing Integration Results

RT: 4.23
Area: 181733
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.23
Area: 187249
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 30-Jun-2022 10:47:04

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.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MS MS Lab Sample ID: 410-88520-6 MS

Matrix: Water Lab File ID: GU28X22.D

Analysis Method: 8260D Date Collected: 06/21/2022 11:55

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 17:51

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.: 270125 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.79		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.99		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.41		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.77		0.50	0.080
75-34-3	1,1-Dichloroethane	5.52		0.50	0.10
75-35-4	1,1-Dichloroethene	5.76		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.68		0.50	0.080
107-06-2	1,2-Dichloroethane	5.55		0.50	0.070
78-87-5	1,2-Dichloropropane	5.85		0.50	0.10
78-93-3	2-Butanone (MEK)	74.6		5.0	1.0
591-78-6	2-Hexanone	82.1		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	78.5		5.0	1.0
67-64-1	Acetone	67.7		5.0	1.0
71-43-2	Benzene	5.68		0.50	0.10
74-97-5	Bromochloromethane	5.91		0.50	0.080
75-27-4	Bromodichloromethane	6.09		0.50	0.080
75-25-2	Bromoform	6.04		1.0	0.30
74-83-9	Bromomethane	5.76		0.50	0.10
75-15-0	Carbon disulfide	7.13		1.0	0.10
56-23-5	Carbon tetrachloride	5.97		0.50	0.10
108-90-7	Chlorobenzene	5.67		0.50	0.070
75-00-3	Chloroethane	5.82		0.50	0.10
67-66-3	Chloroform	6.00		0.50	0.090
74-87-3	Chloromethane	6.33		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	7.20		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.46		0.50	0.10
124-48-1	Dibromochloromethane	6.05		0.50	0.080
100-41-4	Ethylbenzene	5.53		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.08		0.50	0.080
75-09-2	Methylene Chloride	5.59		0.50	0.10
100-42-5	Styrene	5.40		0.50	0.070
127-18-4	Tetrachloroethene	11.3		0.50	0.20
108-88-3	Toluene	5.57		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MS MS Lab Sample ID: 410-88520-6 MS

Matrix: Water Lab File ID: GU28X22.D

Analysis Method: 8260D Date Collected: 06/21/2022 11:55

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 17:51

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.: 270125 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.48		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.93		0.50	0.080
79-01-6	Trichloroethene	7.26		0.50	0.080
75-01-4	Vinyl chloride	6.01		0.50	0.10
1330-20-7	Xylenes, Total	16.7		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		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\16334\20220628-60580.b\GU28X22.D
Lims ID: 410-88520-A-6 MS
Client ID: HD-COD-SW-15-0/1-0 MS
Sample Type: MS
Inject. Date: 28-Jun-2022 17:51:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060580-023
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Jun-2022 14:10:18 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:10:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.916	1.928	-0.012	99	341095	5.00	6.46	
5 Chloromethane	50	2.105	2.123	-0.018	99	381701	5.00	6.33	
8 Vinyl chloride	62	2.221	2.233	-0.012	98	375440	5.00	6.01	
7 Butadiene	39	2.227	2.239	-0.012	91	429915	5.00	6.67	
9 Bromomethane	94	2.550	2.562	-0.012	90	264692	5.00	5.76	
10 Chloroethane	64	2.629	2.641	-0.012	100	216312	5.00	5.82	
12 Dichlorofluoromethane	67	2.867	2.879	-0.012	97	501031	5.00	5.80	
13 Trichlorofluoromethane	101	2.922	2.928	-0.006	97	490337	5.00	5.86	
15 Ethyl ether	59	3.166	3.172	-0.006	90	219860	4.99	6.01	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.257	3.263	-0.006	91	347546	5.00	5.84	
18 Acrolein	56	3.343	3.349	-0.006	99	268951	37.5	45.8	
19 1,1-Dichloroethene	96	3.465	3.471	-0.006	97	260068	5.00	5.76	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.507	3.513	-0.006	92	270693	5.00	5.99	
21 Acetone	43	3.520	3.532	-0.012	100	439351	62.6	67.7	
23 Iodomethane	142	3.654	3.666	-0.012	99	437059	5.00	5.56	
24 Ethyl bromide	108	3.684	3.690	-0.006	98	180960	4.89	4.71	
22 Isopropyl alcohol	45	3.733	3.745	-0.012	26	35722	37.5	23.6	
25 Carbon disulfide	76	3.751	3.763	-0.012	98	813481	5.00	7.13	
27 Methyl acetate	43	3.928	3.922	0.006	35	112850	5.00	5.91	
28 3-Chloro-1-propene	41	3.934	3.940	-0.006	92	344283	5.00	5.35	
29 Methylene Chloride	84	4.111	4.123	-0.012	89	272701	5.00	5.59	
* 30 t-Butyl alcohol-d10 (IS)	65	4.178	4.190	-0.012	80	141173	50.0	50.0	
31 2-Methyl-2-propanol	59	4.294	4.324	-0.030	97	104614	50.0	40.9	
32 Acrylonitrile	53	4.464	4.476	-0.012	99	281301	25.0	32.6	
33 Methyl tert-butyl ether	73	4.519	4.525	-0.006	89	627988	5.00	5.08	
34 trans-1,2-Dichloroethene	96	4.519	4.525	-0.006	100	273881	5.00	5.48	
35 Hexane	57	4.946	4.958	-0.012	92	348995	5.00	5.46	
37 1,1-Dichloroethane	63	5.184	5.190	-0.006	96	467364	5.00	5.52	
38 Isopropyl ether	45	5.251	5.257	-0.006	93	742659	5.00	5.07	
39 2-Chloro-1,3-butadiene	53	5.294	5.306	-0.012	89	381469	5.00	5.60	
40 Tert-butyl ethyl ether	59	5.787	5.793	-0.006	97	708619	5.00	4.95	
41 2-Butanone (MEK)	43	5.995	6.001	-0.006	99	950177	62.6	74.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 cis-1,2-Dichloroethene	96	6.025	6.031	-0.006	80	393828	5.00	7.20	
43 2,2-Dichloropropane	77	6.031	6.037	-0.006	86	399019	5.00	6.28	
45 Propionitrile	54	6.092	6.092	0.000	98	136658	37.5	41.0	
48 Methacrylonitrile	67	6.299	6.299	0.000	89	604289	37.5	49.1	
49 Chlorobromomethane	128	6.354	6.360	-0.006	91	145259	5.00	5.91	
50 Tetrahydrofuran	71	6.360	6.360	0.000	77	110379	25.0	30.7	
51 Chloroform	83	6.507	6.513	-0.006	93	516569	5.00	6.00	
$ 52 Dibromofluoromethane (Surr)	113	6.720	6.726	-0.006	94	535722	10.0	10.3	
53 1,1,1-Trichloroethane	97	6.732	6.738	-0.006	98	440890	5.00	5.99	
54 Cyclohexane	56	6.824	6.830	-0.006	96	435493	5.00	5.47	
56 Carbon tetrachloride	117	6.940	6.939	0.001	96	379580	5.00	5.97	
57 1,1-Dichloropropene	75	6.946	6.945	0.001	99	380177	5.00	5.65	
58 Isobutyl alcohol	41	7.135	7.141	-0.006	90	101320	125.1	97.4	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.177	0.000	93	115318	10.0	10.4	
60 Benzene	78	7.202	7.208	-0.006	96	1148120	5.00	5.68	
61 1,2-Dichloroethane	62	7.281	7.281	0.000	97	304629	5.00	5.55	
63 Tert-amyl methyl ether	73	7.403	7.403	0.000	98	668640	5.00	5.06	
* 64 Fluorobenzene (IS)	96	7.610	7.616	-0.006	99	2176738	10.0	10.0	
65 n-Heptane	43	7.622	7.628	-0.006	89	389524	5.00	5.87	
67 n-Butanol	56	8.025	8.025	0.000	88	218978	250.2	261.3	
68 Trichloroethene	95	8.092	8.092	0.000	98	393706	5.00	7.26	
69 Methylcyclohexane	83	8.397	8.396	0.001	90	507660	5.00	5.68	
70 1,2-Dichloropropane	63	8.421	8.427	-0.006	97	298531	5.00	5.85	
71 2-ethoxy-2-methyl butane	87	8.433	8.439	-0.006	93	402668	5.00	5.39	
72 Methyl methacrylate	69	8.512	8.512	0.000	89	148019	5.00	6.32	
74 Dibromomethane	93	8.531	8.531	0.000	95	152444	5.00	5.90	
73 1,4-Dioxane	88	8.549	8.561	-0.012	70	24745	125.1	139.3	
76 Dichlorobromomethane	83	8.768	8.774	-0.006	99	358426	5.00	6.09	
77 2-Nitropropane	41	9.049	9.049	0.000	99	34845	5.00	6.66	
80 1-Bromo-2-chloroethane	63	9.159	9.158	0.001	98	312698	5.00	5.79	
81 cis-1,3-Dichloropropene	75	9.323	9.323	0.000	97	404146	5.00	5.46	
82 4-Methyl-2-pentanone (MIBK)	43	9.500	9.500	0.000	95	2425161	62.6	78.5	
$ 83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	2201331	10.0	10.2	
84 Toluene	92	9.707	9.707	0.000	98	746015	5.00	5.57	
96 trans-1,3-Dichloropropene	75	9.969	9.969	0.000	90	366665	5.00	5.93	
98 Ethyl methacrylate	69	10.037	10.036	0.001	88	294071	5.00	5.29	
99 1,1,2-Trichloroethane	97	10.177	10.177	0.000	90	226581	5.00	5.77	
100 Tetrachloroethene	166	10.262	10.262	0.000	97	705173	5.00	11.3	
101 1,3-Dichloropropane	76	10.341	10.341	0.000	87	379250	5.00	5.71	
102 2-Hexanone	43	10.396	10.396	0.000	95	1823701	62.6	82.1	
104 Chlorodibromomethane	129	10.555	10.555	0.000	89	267318	5.00	6.05	
105 Ethylene Dibromide	107	10.664	10.664	0.000	98	214916	5.00	5.68	
* 106 Chlorobenzene-d5 (IS)	117	11.097	11.097	0.000	85	1680696	10.0	10.0	
107 1-Chlorohexane	91	11.109	11.109	0.000	96	409338	5.00	5.35	
108 Chlorobenzene	112	11.122	11.122	0.000	96	881356	5.00	5.67	
110 1,1,1,2-Tetrachloroethane	131	11.207	11.207	0.000	96	298829	5.00	5.79	
111 Ethylbenzene	91	11.207	11.213	-0.006	98	1444041	5.00	5.53	
112 m-Xylene & p-Xylene	106	11.323	11.323	0.000	100	1145934	10.0	11.4	
113 o-Xylene	106	11.652	11.652	0.000	96	531777	5.00	5.31	
114 Styrene	104	11.670	11.670	0.000	95	915577	5.00	5.40	
115 Bromoform	173	11.823	11.829	-0.006	97	159003	5.00	6.04	
116 Isopropylbenzene	105	11.951	11.957	-0.006	96	1400711	5.00	5.43	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 119 4-Bromofluorobenzene (Surr)	95	12.097	12.097	0.000	92	811065	10.0	9.99	
120 1,1,2,2-Tetrachloroethane	83	12.201	12.201	0.000	94	291612	5.00	5.41	
121 Bromobenzene	156	12.213	12.213	0.000	95	371989	5.00	5.47	
122 trans-1,4-Dichloro-2-butene	53	12.225	12.225	0.000	92	248731	25.0	23.9	
123 1,2,3-Trichloropropane	110	12.243	12.243	0.000	82	78021	5.00	5.45	
124 N-Propylbenzene	91	12.280	12.280	0.000	99	1738558	5.00	5.40	
125 2-Chlorotoluene	126	12.359	12.359	0.000	97	355218	5.00	5.31	
126 1,3,5-Trimethylbenzene	105	12.414	12.420	-0.006	94	1214070	5.00	5.28	
127 4-Chlorotoluene	126	12.451	12.451	0.001	97	379711	5.00	5.48	
128 tert-Butylbenzene	134	12.658	12.658	0.000	93	262537	5.00	5.07	
129 Pentachloroethane	167	12.688	12.688	0.000	92	225028	5.00	5.67	
130 1,2,4-Trimethylbenzene	105	12.701	12.700	0.001	96	1266088	5.00	5.33	
131 sec-Butylbenzene	105	12.823	12.822	0.001	94	1603816	5.00	5.48	
132 1,3-Dichlorobenzene	146	12.920	12.920	0.000	98	735995	5.00	5.32	
133 4-Isopropyltoluene	119	12.926	12.926	0.000	97	1396931	5.00	5.34	
* 134 1,4-Dichlorobenzene-d4	152	12.975	12.975	0.000	93	975486	10.0	10.0	
135 1,4-Dichlorobenzene	146	12.993	12.993	0.000	95	760531	5.00	5.36	
136 1,2,3-Trimethylbenzene	120	13.005	13.005	0.000	98	564736	5.00	5.21	
137 Benzyl chloride	126	13.066	13.072	-0.006	98	110897	5.00	5.87	
138 p-Diethylbenzene	119	13.127	13.127	0.000	91	825353	5.00	5.32	
139 n-Butylbenzene	92	13.219	13.219	0.000	95	701111	5.00	5.26	
140 1,2-Dichlorobenzene	146	13.249	13.249	0.000	99	689547	5.00	5.26	
142 1,2-Dibromo-3-Chloropropane	155	13.786	13.792	-0.006	89	37057	5.00	4.73	
143 1,3,5-Trichlorobenzene	180	13.914	13.914	0.000	98	552780	5.00	4.93	
144 1,2,4-Trichlorobenzene	180	14.334	14.334	0.000	94	457585	5.00	4.53	
145 Hexachlorobutadiene	225	14.414	14.414	0.000	96	266360	5.00	5.11	
146 Naphthalene	128	14.511	14.511	0.000	97	745413	5.00	4.19	
147 1,2,3-Trichlorobenzene	180	14.651	14.651	0.000	96	402733	5.00	4.58	
148 2-Methylnaphthalene	142	15.261	15.261	0.000	91	280047	5.00	2.80	
160 Pentane	43	2.959	2.971	-0.012	97	448522	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

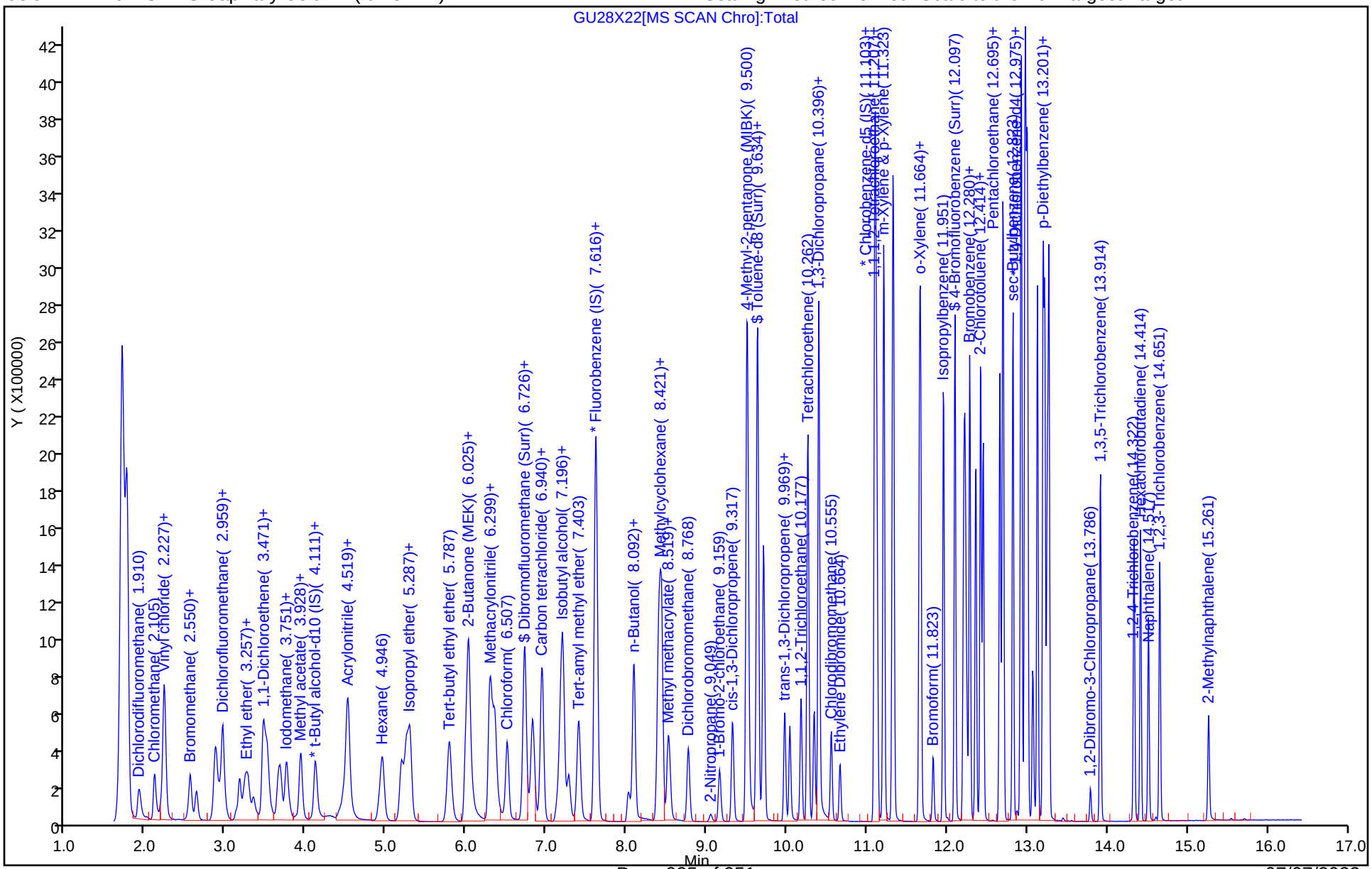
MSV_LCS_VOC#1_00061	Amount Added:	5.38	Units: uL	
MSV_LCS_ACROL_00064	Amount Added:	5.38	Units: uL	
MSV_QC_Gas826_00087	Amount Added:	5.38	Units: uL	
LCS_ETBR_00003	Amount Added:	5.38	Units: uL	
MSV_LCS_EE_00003	Amount Added:	5.38	Units: uL	
MSV_LCS_Penta_00017	Amount Added:	5.38	Units: uL	
MSV_29_826ISS_00034	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 29-Jun-2022 14:10:55 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X22.D				
Injection Date:	28-Jun-2022 17:51:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-88520-A-6 MS			Worklist Smp#:	23
Client ID:	HD-COD-SW-15-0/1-0 MS				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X22.D
Lims ID: 410-88520-A-6 MS
Client ID: HD-COD-SW-15-0/1-0 MS
Sample Type: MS
Inject. Date: 28-Jun-2022 17:51:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060580-023
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Jun-2022 14:10:18 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:10:54

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	102.54
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.43
$ 83 Toluene-d8 (Surr)	10.0	10.2	102.29
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.99	99.88

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MSD MSD Lab Sample ID: 410-88520-6 MSD

Matrix: Water Lab File ID: GU28X23.D

Analysis Method: 8260D Date Collected: 06/21/2022 11:55

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 18:13

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 270125 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.82		0.50	0.070
71-55-6	1,1,1-Trichloroethane	6.03		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.37		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.81		0.50	0.080
75-34-3	1,1-Dichloroethane	5.55		0.50	0.10
75-35-4	1,1-Dichloroethene	5.87		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.62		0.50	0.080
107-06-2	1,2-Dichloroethane	5.49		0.50	0.070
78-87-5	1,2-Dichloropropane	5.82		0.50	0.10
78-93-3	2-Butanone (MEK)	75.5		5.0	1.0
591-78-6	2-Hexanone	82.5		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	79.0		5.0	1.0
67-64-1	Acetone	67.0		5.0	1.0
71-43-2	Benzene	5.69		0.50	0.10
74-97-5	Bromochloromethane	6.00		0.50	0.080
75-27-4	Bromodichloromethane	6.04		0.50	0.080
75-25-2	Bromoform	6.04		1.0	0.30
74-83-9	Bromomethane	5.81		0.50	0.10
75-15-0	Carbon disulfide	7.18		1.0	0.10
56-23-5	Carbon tetrachloride	6.08		0.50	0.10
108-90-7	Chlorobenzene	5.67		0.50	0.070
75-00-3	Chloroethane	5.88		0.50	0.10
67-66-3	Chloroform	6.01		0.50	0.090
74-87-3	Chloromethane	6.25		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	7.20		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.55		0.50	0.10
124-48-1	Dibromochloromethane	6.01		0.50	0.080
100-41-4	Ethylbenzene	5.47		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.18		0.50	0.080
75-09-2	Methylene Chloride	5.69		0.50	0.10
100-42-5	Styrene	5.44		0.50	0.070
127-18-4	Tetrachloroethene	11.2		0.50	0.20
108-88-3	Toluene	5.54		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-88520-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MSD MSD Lab Sample ID: 410-88520-6 MSD

Matrix: Water Lab File ID: GU28X23.D

Analysis Method: 8260D Date Collected: 06/21/2022 11:55

Sample wt/vol: 25(mL) Date Analyzed: 06/28/2022 18:13

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 270125 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.55		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.96		0.50	0.080
79-01-6	Trichloroethene	7.25		0.50	0.080
75-01-4	Vinyl chloride	6.09		0.50	0.10
1330-20-7	Xylenes, Total	16.6		1.0	0.070

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

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X23.D
Lims ID: 410-88520-A-6 MSD
Client ID: HD-COD-SW-15-0/1-0 MSD
Sample Type: MSD
Inject. Date: 28-Jun-2022 18:13:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0060580-024
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 29-Jun-2022 14:10:18 Calib Date: 10-Jan-2022 23:46:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1674

First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:11:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.922	1.928	-0.006	99	340744	5.00	6.52	
5 Chloromethane	50	2.111	2.123	-0.012	99	373482	5.00	6.25	
8 Vinyl chloride	62	2.227	2.233	-0.006	98	376647	5.00	6.09	
7 Butadiene	39	2.239	2.239	0.000	89	419260	5.00	6.56	
9 Bromomethane	94	2.556	2.562	-0.006	91	264361	5.00	5.81	
10 Chloroethane	64	2.635	2.641	-0.006	100	216481	5.00	5.88	
12 Dichlorofluoromethane	67	2.873	2.879	-0.006	97	505176	5.00	5.90	
13 Trichlorofluoromethane	101	2.928	2.928	0.000	96	491594	5.00	5.93	
15 Ethyl ether	59	3.172	3.172	0.000	91	216544	4.99	5.97	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.263	3.263	0.000	93	348942	5.00	5.92	
18 Acrolein	56	3.349	3.349	0.000	99	263549	37.5	46.2	
19 1,1-Dichloroethene	96	3.471	3.471	0.000	97	262714	5.00	5.87	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.513	3.513	0.000	91	273157	5.00	6.11	
21 Acetone	43	3.532	3.532	0.000	100	421771	62.6	67.0	
23 Iodomethane	142	3.660	3.666	-0.006	99	433874	5.00	5.57	
24 Ethyl bromide	108	3.690	3.690	0.000	98	176540	4.89	4.64	
22 Isopropyl alcohol	45	3.751	3.745	0.006	97	35183	37.5	23.5	
25 Carbon disulfide	76	3.757	3.763	-0.006	99	811486	5.00	7.18	
27 Methyl acetate	43	3.916	3.922	-0.006	47	100390	5.00	5.41	
28 3-Chloro-1-propene	41	3.940	3.940	0.000	92	347944	5.00	5.46	
29 Methylene Chloride	84	4.123	4.123	0.000	91	274445	5.00	5.69	
* 30 t-Butyl alcohol-d10 (IS)	65	4.190	4.190	0.000	77	137041	50.0	50.0	
31 2-Methyl-2-propanol	59	4.306	4.324	-0.018	99	97064	50.0	39.1	
32 Acrylonitrile	53	4.470	4.476	-0.006	99	260366	25.0	31.1	
33 Methyl tert-butyl ether	73	4.513	4.525	-0.012	94	634518	5.00	5.18	
34 trans-1,2-Dichloroethene	96	4.525	4.525	0.000	99	274641	5.00	5.55	
35 Hexane	57	4.958	4.958	0.000	91	353692	5.00	5.59	
37 1,1-Dichloroethane	63	5.196	5.190	0.006	96	465138	5.00	5.55	
38 Isopropyl ether	45	5.251	5.257	-0.006	95	738742	5.00	5.09	
39 2-Chloro-1,3-butadiene	53	5.299	5.306	-0.007	89	380905	5.00	5.64	
40 Tert-butyl ethyl ether	59	5.787	5.793	-0.006	97	709502	5.00	5.00	
41 2-Butanone (MEK)	43	5.994	6.001	-0.007	99	934291	62.6	75.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 cis-1,2-Dichloroethene	96	6.031	6.031	0.000	80	390190	5.00	7.20	
43 2,2-Dichloropropane	77	6.043	6.037	0.006	84	390570	5.00	6.21	
45 Propionitrile	54	6.092	6.092	0.000	98	134041	37.5	41.4	
48 Methacrylonitrile	67	6.293	6.299	-0.006	89	604485	37.5	50.6	
49 Chlorobromomethane	128	6.354	6.360	-0.006	89	146045	5.00	6.00	
50 Tetrahydrofuran	71	6.360	6.360	0.000	72	114442	25.0	32.8	
51 Chloroform	83	6.513	6.513	0.000	92	512998	5.00	6.01	
$ 52 Dibromofluoromethane (Surr)	113	6.726	6.726	0.000	94	534293	10.0	10.3	
53 1,1,1-Trichloroethane	97	6.738	6.738	0.000	97	439510	5.00	6.03	
54 Cyclohexane	56	6.830	6.830	0.000	89	436734	5.00	5.54	
56 Carbon tetrachloride	117	6.945	6.939	0.006	96	382809	5.00	6.08	
57 1,1-Dichloropropene	75	6.945	6.945	0.000	98	385509	5.00	5.79	
58 Isobutyl alcohol	41	7.134	7.141	-0.007	92	112709	125.1	109.4	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.177	0.000	92	114348	10.0	10.5	
60 Benzene	78	7.208	7.208	0.000	96	1139064	5.00	5.69	
61 1,2-Dichloroethane	62	7.275	7.281	-0.006	97	298367	5.00	5.49	
63 Tert-amyl methyl ether	73	7.403	7.403	0.000	99	679350	5.00	5.19	
* 64 Fluorobenzene (IS)	96	7.616	7.616	0.000	99	2155624	10.0	10.0	
65 n-Heptane	43	7.622	7.628	-0.006	89	391275	5.00	5.96	
67 n-Butanol	56	8.025	8.025	0.000	90	203732	250.2	250.4	
68 Trichloroethene	95	8.092	8.092	0.000	97	389666	5.00	7.25	
69 Methylcyclohexane	83	8.396	8.396	0.000	91	496575	5.00	5.61	
70 1,2-Dichloropropane	63	8.421	8.427	-0.006	97	294482	5.00	5.82	
71 2-ethoxy-2-methyl butane	87	8.439	8.439	0.000	94	401844	5.00	5.44	
72 Methyl methacrylate	69	8.512	8.512	0.000	88	150074	5.00	6.60	
74 Dibromomethane	93	8.531	8.531	0.000	94	151848	5.00	5.94	
73 1,4-Dioxane	88	8.549	8.561	-0.012	78	22171	125.1	128.5	
76 Dichlorobromomethane	83	8.768	8.774	-0.006	99	352066	5.00	6.04	
77 2-Nitropropane	41	9.043	9.049	-0.006	99	34997	5.00	6.89	
80 1-Bromo-2-chloroethane	63	9.158	9.158	0.000	98	311415	5.00	5.82	
81 cis-1,3-Dichloropropene	75	9.323	9.323	0.000	98	406743	5.00	5.55	
82 4-Methyl-2-pentanone (MIBK)	43	9.500	9.500	0.000	95	2368472	62.6	79.0	
$ 83 Toluene-d8 (Surr)	98	9.634	9.634	0.000	93	2201318	10.0	10.3	
84 Toluene	92	9.713	9.707	0.006	98	737762	5.00	5.54	
96 trans-1,3-Dichloropropene	75	9.975	9.969	0.006	90	366574	5.00	5.96	
98 Ethyl methacrylate	69	10.036	10.036	0.000	87	290872	5.00	5.26	
99 1,1,2-Trichloroethane	97	10.177	10.177	0.000	90	226670	5.00	5.81	
100 Tetrachloroethene	166	10.262	10.262	0.000	97	693678	5.00	11.2	
101 1,3-Dichloropropane	76	10.341	10.341	0.000	87	380401	5.00	5.76	
102 2-Hexanone	43	10.396	10.396	0.000	95	1776928	62.6	82.5	
104 Chlorodibromomethane	129	10.555	10.555	0.000	90	264076	5.00	6.01	
105 Ethylene Dibromide	107	10.664	10.664	0.000	99	211677	5.00	5.62	
* 106 Chlorobenzene-d5 (IS)	117	11.097	11.097	0.000	85	1671752	10.0	10.0	
107 1-Chlorohexane	91	11.109	11.109	0.000	96	405367	5.00	5.32	
108 Chlorobenzene	112	11.122	11.122	0.000	96	877643	5.00	5.67	
110 1,1,1,2-Tetrachloroethane	131	11.207	11.207	0.000	97	298838	5.00	5.82	
111 Ethylbenzene	91	11.213	11.213	0.000	98	1422307	5.00	5.47	
112 m-Xylene & p-Xylene	106	11.323	11.323	0.000	100	1134752	10.0	11.3	
113 o-Xylene	106	11.652	11.652	0.000	96	528782	5.00	5.30	
114 Styrene	104	11.670	11.670	0.000	94	917334	5.00	5.44	
115 Bromoform	173	11.829	11.829	0.000	97	158260	5.00	6.04	
116 Isopropylbenzene	105	11.957	11.957	0.000	95	1388518	5.00	5.42	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 119 4-Bromofluorobenzene (Surr)	95	12.097	12.097	0.000	93	790883	10.0	9.79	
120 1,1,2,2-Tetrachloroethane	83	12.201	12.201	0.000	93	289641	5.00	5.37	
121 Bromobenzene	156	12.213	12.213	0.000	96	368023	5.00	5.41	
122 trans-1,4-Dichloro-2-butene	53	12.225	12.225	0.000	92	244500	25.0	24.2	
123 1,2,3-Trichloropropane	110	12.243	12.243	0.000	81	78063	5.00	5.46	
124 N-Propylbenzene	91	12.280	12.280	0.000	99	1713898	5.00	5.33	
125 2-Chlorotoluene	126	12.359	12.359	0.000	97	350087	5.00	5.24	
126 1,3,5-Trimethylbenzene	105	12.420	12.420	0.000	94	1202047	5.00	5.24	
127 4-Chlorotoluene	126	12.451	12.451	0.000	96	384488	5.00	5.55	
128 tert-Butylbenzene	134	12.658	12.658	0.000	93	260578	5.00	5.04	
129 Pentachloroethane	167	12.688	12.688	0.000	93	217529	5.00	5.48	
130 1,2,4-Trimethylbenzene	105	12.700	12.700	0.000	97	1241980	5.00	5.23	
131 sec-Butylbenzene	105	12.822	12.822	0.000	94	1583061	5.00	5.41	
132 1,3-Dichlorobenzene	146	12.920	12.920	0.000	99	728548	5.00	5.27	
133 4-Isopropyltoluene	119	12.926	12.926	0.000	97	1394685	5.00	5.33	
* 134 1,4-Dichlorobenzene-d4	152	12.975	12.975	0.000	94	974721	10.0	10.0	
135 1,4-Dichlorobenzene	146	12.993	12.993	0.000	95	756055	5.00	5.34	
136 1,2,3-Trimethylbenzene	120	12.999	13.005	-0.006	98	564844	5.00	5.21	
137 Benzyl chloride	126	13.066	13.072	-0.006	98	111676	5.00	5.92	
138 p-Diethylbenzene	119	13.127	13.127	0.000	92	821587	5.00	5.30	
139 n-Butylbenzene	92	13.219	13.219	0.000	96	696711	5.00	5.23	
140 1,2-Dichlorobenzene	146	13.249	13.249	0.000	99	675916	5.00	5.16	
142 1,2-Dibromo-3-Chloropropane	155	13.786	13.792	-0.006	89	36256	5.00	4.63	
143 1,3,5-Trichlorobenzene	180	13.914	13.914	0.000	98	550487	5.00	4.91	
144 1,2,4-Trichlorobenzene	180	14.334	14.334	0.000	94	446650	5.00	4.43	
145 Hexachlorobutadiene	225	14.414	14.414	0.000	97	264930	5.00	5.09	
146 Naphthalene	128	14.511	14.511	0.000	97	745750	5.00	4.19	
147 1,2,3-Trichlorobenzene	180	14.651	14.651	0.000	96	404608	5.00	4.60	
148 2-Methylnaphthalene	142	15.261	15.261	0.000	92	325891	5.00	3.27	
160 Pentane	43	2.965	2.971	-0.006	98	444303	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

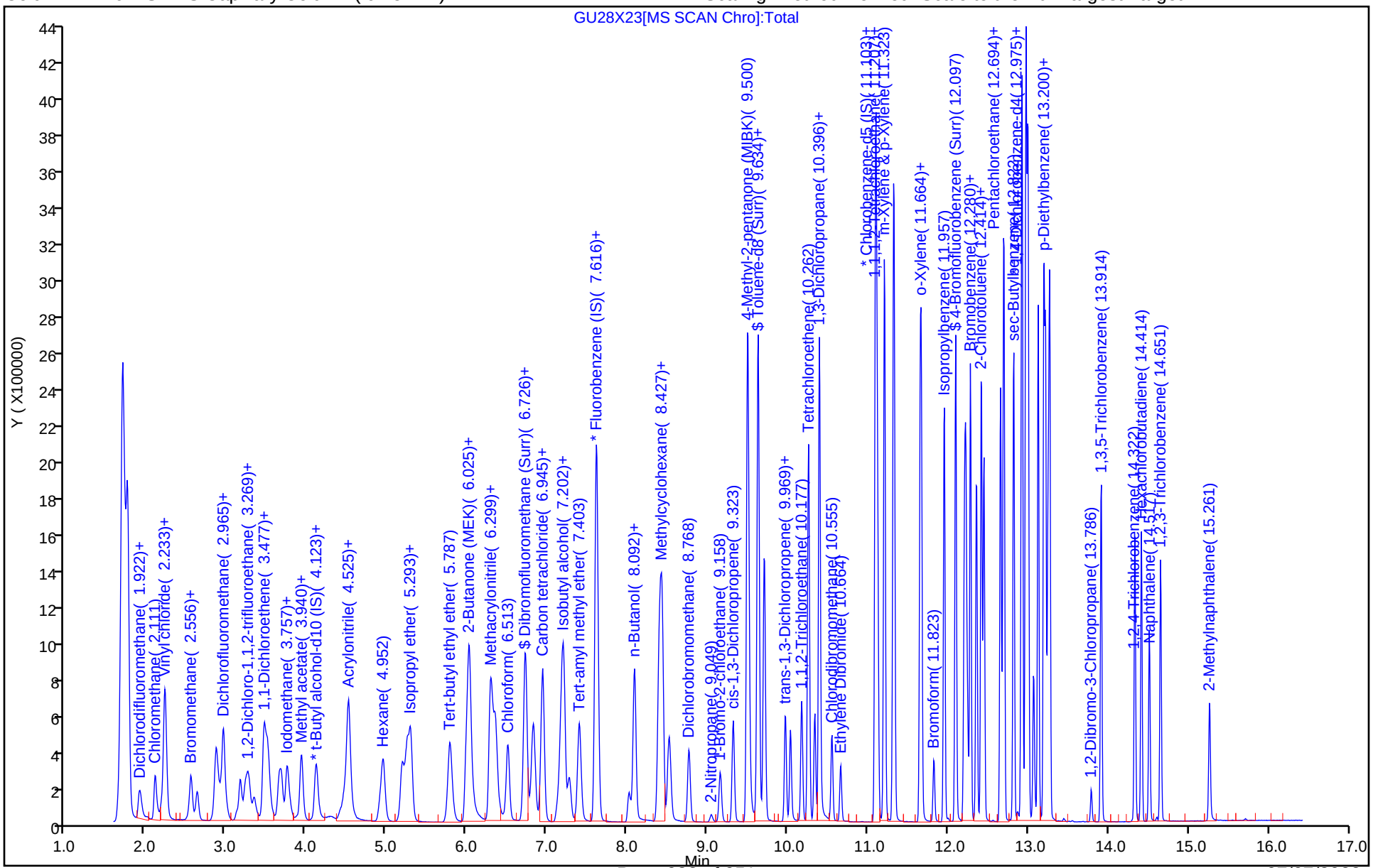
MSV_LCS_VOC#1_00061	Amount Added:	5.38	Units: uL	
MSV_LCS_ACROL_00064	Amount Added:	5.38	Units: uL	
MSV_QC_Gas826_00087	Amount Added:	5.38	Units: uL	
LCS_ETBR_00003	Amount Added:	5.38	Units: uL	
MSV_LCS_EE_00003	Amount Added:	5.38	Units: uL	
MSV_LCS_Penta_00017	Amount Added:	5.38	Units: uL	
MSV_29_826ISS_00034	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 29-Jun-2022 14:11:29 Chrom Revision: 2.3 20-Jun-2022 20:10:40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X23.D				
Injection Date:	28-Jun-2022 18:13:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-88520-A-6 MSD			Worklist Smp#:	24
Client ID:	HD-COD-SW-15-0/1-0 MSD				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\GU28X23.D				
Lims ID:	410-88520-A-6 MSD				
Client ID:	HD-COD-SW-15-0/1-0 MSD				
Sample Type:	MSD				
Inject. Date:	28-Jun-2022 18:13:30	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0060580-024				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20220628-60580.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	29-Jun-2022 14:10:18	Calib Date:	10-Jan-2022 23:46:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20220110-48068.b\GJ10X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1674				

First Level Reviewer: kaewrungrueangp Date: 29-Jun-2022 14:11:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	103.27
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	104.57
$ 83 Toluene-d8 (Surr)	10.0	10.3	102.84
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.79	97.92

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-88520-1

SDG No.:

Instrument ID: 16334 Start Date: 01/10/2022 14:32

Analysis Batch Number: 213100 End Date: 01/11/2022 00:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-213100/1		01/10/2022 14:32	1	GJ10T01.D	R-624SilMS 30m 0.25(mm)
IC 410-213100/3		01/10/2022 18:36	1		R-624SilMS 30m 0.25(mm)
IC 410-213100/4		01/10/2022 18:58	1		R-624SilMS 30m 0.25(mm)
IC 410-213100/5		01/10/2022 19:20	1		R-624SilMS 30m 0.25(mm)
IC 410-213100/6		01/10/2022 19:42	1		R-624SilMS 30m 0.25(mm)
IC 410-213100/7		01/10/2022 20:05	1		R-624SilMS 30m 0.25(mm)
IC 410-213100/8		01/10/2022 20:27	1		R-624SilMS 30m 0.25(mm)
IC 410-213100/9		01/10/2022 20:49	1		R-624SilMS 30m 0.25(mm)
IC 410-213100/11		01/10/2022 21:33	1	GJ10X11.D	R-624SilMS 30m 0.25(mm)
ICIS 410-213100/12		01/10/2022 21:55	1	GJ10X12.D	R-624SilMS 30m 0.25(mm)
IC 410-213100/13		01/10/2022 22:17	1	GJ10X13.D	R-624SilMS 30m 0.25(mm)
IC 410-213100/14		01/10/2022 22:39	1	GJ10X14.D	R-624SilMS 30m 0.25(mm)
IC 410-213100/15		01/10/2022 23:01	1	GJ10X15.D	R-624SilMS 30m 0.25(mm)
IC 410-213100/16		01/10/2022 23:23	1	GJ10X16.D	R-624SilMS 30m 0.25(mm)
IC 410-213100/17		01/10/2022 23:46	1	GJ10X17.D	R-624SilMS 30m 0.25(mm)
ICV 410-213100/18		01/11/2022 00:08	1	GJ10X18.D	R-624SilMS 30m 0.25(mm)
ICV 410-213100/19		01/11/2022 00:30	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-88520-1

SDG No.:

Instrument ID: 19930 Start Date: 03/14/2022 21:24

Analysis Batch Number: 233459 End Date: 03/15/2022 03:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-233459/1		03/14/2022 21:24	1	IM14T01.D	R-624SilMS 30m 0.25(mm)
IC 410-233459/3		03/14/2022 22:05	1		R-624SilMS 30m 0.25(mm)
IC 410-233459/4		03/14/2022 22:26	1		R-624SilMS 30m 0.25(mm)
IC 410-233459/5		03/14/2022 22:47	1		R-624SilMS 30m 0.25(mm)
IC 410-233459/6		03/14/2022 23:08	1		R-624SilMS 30m 0.25(mm)
IC 410-233459/7		03/14/2022 23:29	1		R-624SilMS 30m 0.25(mm)
IC 410-233459/8		03/14/2022 23:50	1		R-624SilMS 30m 0.25(mm)
IC 410-233459/9		03/15/2022 00:12	1		R-624SilMS 30m 0.25(mm)
ICV 410-233459/10		03/15/2022 00:33	1		R-624SilMS 30m 0.25(mm)
IC 410-233459/12		03/15/2022 01:15	1	IM14I31.D	R-624SilMS 30m 0.25(mm)
ICIS 410-233459/13		03/15/2022 01:36	1	IM14I32.D	R-624SilMS 30m 0.25(mm)
IC 410-233459/14		03/15/2022 01:58	1	IM14I33.D	R-624SilMS 30m 0.25(mm)
IC 410-233459/15		03/15/2022 02:19	1	IM14I34.D	R-624SilMS 30m 0.25(mm)
IC 410-233459/16		03/15/2022 02:40	1	IM14I35.D	R-624SilMS 30m 0.25(mm)
IC 410-233459/17		03/15/2022 03:01	1	IM14I36.D	R-624SilMS 30m 0.25(mm)
IC 410-233459/18		03/15/2022 03:22	1	IM14I37.D	R-624SilMS 30m 0.25(mm)
ICV 410-233459/19		03/15/2022 03:43	1	IM14V01.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-88520-1

SDG No.:

Instrument ID: 16334 Start Date: 06/28/2022 09:47

Analysis Batch Number: 270125 End Date: 06/28/2022 21:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-270125/1		06/28/2022 09:47	1	GU28T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-270125/3		06/28/2022 10:22	1	GU28X02.D	R-624SilMS 30m 0.25(mm)
LCS 410-270125/4		06/28/2022 10:44	1	GU28X03.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		06/28/2022 11:07	1		R-624SilMS 30m 0.25(mm)
MB 410-270125/6		06/28/2022 11:29	1	GU28X05.D	R-624SilMS 30m 0.25(mm)
410-88520-14	HD-QC1-0/1-2	06/28/2022 11:58	1	GU28X06.D	R-624SilMS 30m 0.25(mm)
410-88520-1	HD-COD-SW-6-0/1-0	06/28/2022 15:38	1	GU28X16.D	R-624SilMS 30m 0.25(mm)
410-88520-2	HD-COD-SW-7-0/1-0	06/28/2022 16:01	1	GU28X17.D	R-624SilMS 30m 0.25(mm)
410-88520-3	HD-COD-SW-8-0/1-0	06/28/2022 16:23	1	GU28X18.D	R-624SilMS 30m 0.25(mm)
410-88520-4	HD-COD-SW-9-0/1-0	06/28/2022 16:45	1	GU28X19.D	R-624SilMS 30m 0.25(mm)
410-88520-5	HD-COD-SW-13-0/1-0	06/28/2022 17:07	1	GU28X20.D	R-624SilMS 30m 0.25(mm)
410-88520-6	HD-COD-SW-15-0/1-0	06/28/2022 17:29	1	GU28X21.D	R-624SilMS 30m 0.25(mm)
410-88520-6 MS	HD-COD-SW-15-0/1-0 MS MS	06/28/2022 17:51	1	GU28X22.D	R-624SilMS 30m 0.25(mm)
410-88520-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	06/28/2022 18:13	1	GU28X23.D	R-624SilMS 30m 0.25(mm)
410-88520-7	HD-COD-SW-16-0/1-0	06/28/2022 18:35	1	GU28X24.D	R-624SilMS 30m 0.25(mm)
410-88520-8	HD-COD-SW-17-0/1-0	06/28/2022 18:57	1	GU28X25.D	R-624SilMS 30m 0.25(mm)
410-88520-9	HD-COD-SW-26-0/1-0	06/28/2022 19:19	1	GU28X26.D	R-624SilMS 30m 0.25(mm)
410-88520-10	HD-COD-SW-27-0/1-0	06/28/2022 19:41	1	GU28X27.D	R-624SilMS 30m 0.25(mm)
410-88520-11	HD-COD-SW-28-0/1-0	06/28/2022 20:03	1	GU28X28.D	R-624SilMS 30m 0.25(mm)
410-88520-12	HD-COD-SW-29-0/1-0	06/28/2022 20:25	1	GU28X29.D	R-624SilMS 30m 0.25(mm)
410-88520-13	HD-QC1-0/1-1	06/28/2022 20:47	1	GU28X30.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		06/28/2022 21:10	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-88520-1

SDG No.:

Instrument ID: 19930 Start Date: 06/30/2022 09:25

Analysis Batch Number: 271084 End Date: 06/30/2022 20:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-271084/1		06/30/2022 09:25	1	IU30T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-271084/3		06/30/2022 10:00	1	IU30X02.D	R-624SilMS 30m 0.25(mm)
LCS 410-271084/4		06/30/2022 10:21	1	IU30X03.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		06/30/2022 10:42	1		R-624SilMS 30m 0.25(mm)
MB 410-271084/6		06/30/2022 11:04	1	IU30X05.D	R-624SilMS 30m 0.25(mm)
410-88520-8 DL	HD-COD-SW-17-0/1-0 DL	06/30/2022 19:54	10	IU30X30.D	R-624SilMS 30m 0.25(mm)
410-88520-13 DL	HD-QC1-0/1-1 DL	06/30/2022 20:15	10	IU30X31.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-88520-1

SDG No.:

Batch Number: 213100 Batch Start Date: 01/10/22 14:32 Batch Analyst: Campbell, Miranda E

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	MSV_29_826ISS 00028	MSV_LCS_ACROL 00038	MSV_LCS_EE 00001
BFB 410-213100/1		8260D		1 uL	1 uL				
IC 410-213100/11		8260D		25 mL	25 mL	2617	1 uL		
ICIS 410-213100/12		8260D		25 mL	25 mL	2617	1 uL		
IC 410-213100/13		8260D		25 mL	25 mL	2617	1 uL		
IC 410-213100/14		8260D		25 mL	25 mL	2617	1 uL		
IC 410-213100/15		8260D		25 mL	25 mL	2617	1 uL		
IC 410-213100/16		8260D		25 mL	25 mL	2617	1 uL		
IC 410-213100/17		8260D		25 mL	25 mL	2617	1 uL		
ICV 410-213100/18		8260D		25 mL	25 mL	2617	1 uL	12.5 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_ETBR 00001	MSV_LCS_Penta 00011	MSV_LCS_VOC#1 00035	MSV_LL_#1_826 00032	MSV_LL_#2_826 00036	MSV_LL_GAS826 00059
BFB 410-213100/1		8260D							
IC 410-213100/11		8260D					25 uL	25 uL	25 uL
ICIS 410-213100/12		8260D					10 uL	10 uL	10 uL
IC 410-213100/13		8260D					5 uL	5 uL	5 uL
IC 410-213100/14		8260D					2 uL	2 uL	2 uL
IC 410-213100/15		8260D					2 uL	2 uL	2 uL
IC 410-213100/16		8260D					2 uL	2 uL	2 uL
IC 410-213100/17		8260D					2 uL	2 uL	2 uL
ICV 410-213100/18		8260D		12.5 uL	12.5 uL	12.5 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 Laboratorie Job No.: 410-88520-1

SDG No.:

Batch Number: 213100 Batch Start Date: 01/10/22 14:32 Batch Analyst: Campbell, Miranda E

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_QC_Gas826 00060	MSV_V_BFB 00007	AnalysisComment			
BFB 410-213100/1		8260D			1 uL				
IC 410-213100/11		8260D							
ICIS 410-213100/12		8260D							
IC 410-213100/13		8260D							
IC 410-213100/14		8260D							
IC 410-213100/15		8260D							
IC 410-213100/16		8260D							
IC 410-213100/17		8260D							
ICV 410-213100/18		8260D		12.5 uL		Large			

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 Laboratorie Job No.: 410-88520-1

SDG No.:

Batch Number: 233459 Batch Start Date: 03/14/22 21:24 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	MSV_LCS_ACROL 00048	MSV_LCS_EE 00002	MSV_LCS_ETBR 00001
BFB 410-233459/1		8260D		1 uL	1 uL				
IC 410-233459/12		8260D		25 mL	25 mL	2622			
ICIS 410-233459/13		8260D		25 mL	25 mL	2622			
IC 410-233459/14		8260D		25 mL	25 mL	2622			
IC 410-233459/15		8260D		25 mL	25 mL	2622			
IC 410-233459/16		8260D		25 mL	25 mL	2622			
IC 410-233459/17		8260D		25 mL	25 mL	2622			
IC 410-233459/18		8260D		25 mL	25 mL	2622			
ICV 410-233459/19		8260D		25 mL	25 mL	2622	12.5 uL	12.5 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_Penta 00013	MSV_LCS_VOC#1 00044	MSV_LL_#1_826 00038	MSV_LL_#2_826 00042	MSV_LL_GAS826 00072	MSV_LLcentISS 00004
BFB 410-233459/1		8260D							
IC 410-233459/12		8260D				25 uL	25 uL	25 uL	5 uL
ICIS 410-233459/13		8260D				10 uL	10 uL	10 uL	5 uL
IC 410-233459/14		8260D				5 uL	5 uL	5 uL	5 uL
IC 410-233459/15		8260D				2 uL	2 uL	2 uL	5 uL
IC 410-233459/16		8260D				2 uL	2 uL	2 uL	5 uL
IC 410-233459/17		8260D				2 uL	2 uL	2 uL	5 uL
IC 410-233459/18		8260D				2 uL	2 uL	2 uL	5 uL
ICV 410-233459/19		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 Laboratorie Job No.: 410-88520-1

SDG No.:

Batch Number: 233459 Batch Start Date: 03/14/22 21:24 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_QC_Gas826 00070	MSV_V_BFB 00007				
BFB 410-233459/1		8260D			1 uL				
IC 410-233459/12		8260D							
ICIS 410-233459/13		8260D							
IC 410-233459/14		8260D							
IC 410-233459/15		8260D							
IC 410-233459/16		8260D							
IC 410-233459/17		8260D							
IC 410-233459/18		8260D							
ICV 410-233459/19		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 Laboratorie Job No.: 410-88520-1

SDG No.:

Batch Number: 270125 Batch Start Date: 06/28/22 09:47 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-270125/1		8260D		1 uL	1 uL				
CCVIS 410-270125/3		8260D		25 mL	25 mL				2646
LCS 410-270125/4		8260D		25 mL	25 mL				2646
MB 410-270125/6		8260D		25 mL	25 mL				2646
410-88520-A-14	HD-QC1-0/1-2	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-88520-A-1	HD-COD-SW-6-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-88520-A-2	HD-COD-SW-7-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-88520-A-3	HD-COD-SW-8-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-88520-A-4	HD-COD-SW-9-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-88520-A-5	HD-COD-SW-13-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-88520-A-6	HD-COD-SW-15-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-88520-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-88520-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-88520-A-7	HD-COD-SW-16-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-88520-A-8	HD-COD-SW-17-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-88520-A-9	HD-COD-SW-26-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-88520-A-10	HD-COD-SW-27-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-88520-A-11	HD-COD-SW-28-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-88520-A-12	HD-COD-SW-29-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-88520-A-13	HD-QC1-0/1-1	8260D	T	25 mL	25 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCS_ETBR 00003	MSV_29_826ISS 00034	MSV_LCS_ACROL 00064	MSV_LCS_EE 00003	MSV_LCS_Penta 00017	MSV_LCS_VOC#1 00061

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 Laboratorie Job No.: 410-88520-1

SDG No.:

Batch Number: 270125 Batch Start Date: 06/28/22 09:47 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCS_ETBR 00003	MSV_29_826ISS 00034	MSV_LCS_ACROL 00064	MSV_LCS_EE 00003	MSV_LCS_Penta 00017	MSV_LCS_VOC#1 00061
BFB 410-270125/1		8260D							
CCVIS 410-270125/3		8260D			1 uL				
LCS 410-270125/4		8260D		12.5 uL	1 uL	12.5 uL	12.5 uL	12.5 uL	12.5 uL
MB 410-270125/6		8260D			1 uL				
410-88520-A-14	HD-QC1-0/1-2	8260D	T		1 uL				
410-88520-A-1	HD-COD-SW-6-0/1-0	8260D	T		1 uL				
410-88520-A-2	HD-COD-SW-7-0/1-0	8260D	T		1 uL				
410-88520-A-3	HD-COD-SW-8-0/1-0	8260D	T		1 uL				
410-88520-A-4	HD-COD-SW-9-0/1-0	8260D	T		1 uL				
410-88520-A-5	HD-COD-SW-13-0/1-0	8260D	T		1 uL				
410-88520-A-6	HD-COD-SW-15-0/1-0	8260D	T		1 uL				
410-88520-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	T	5.38 uL	1 uL	5.38 uL	5.38 uL	5.38 uL	5.38 uL
410-88520-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	T	5.38 uL	1 uL	5.38 uL	5.38 uL	5.38 uL	5.38 uL
410-88520-A-7	HD-COD-SW-16-0/1-0	8260D	T		1 uL				
410-88520-A-8	HD-COD-SW-17-0/1-0	8260D	T		1 uL				
410-88520-A-9	HD-COD-SW-26-0/1-0	8260D	T		1 uL				
410-88520-A-10	HD-COD-SW-27-0/1-0	8260D	T		1 uL				
410-88520-A-11	HD-COD-SW-28-0/1-0	8260D	T		1 uL				
410-88520-A-12	HD-COD-SW-29-0/1-0	8260D	T		1 uL				
410-88520-A-13	HD-QC1-0/1-1	8260D	T		1 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_#1_826 00047	MSV_LL_#2_826 00051	MSV_LL_GAS826 00098	MSV_QC_Gas826 00087	MSV_V_BFB 00007	

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 Laboratorie Job No.: 410-88520-1

SDG No.:

Batch Number: 270125 Batch Start Date: 06/28/22 09:47 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_#1_826 00047	MSV_LL_#2_826 00051	MSV_LL_GAS826 00098	MSV_QC_Gas826 00087	MSV_V_BFB 00007	
BFB 410-270125/1		8260D						1 uL	
CCVIS 410-270125/3		8260D		25 uL	25 uL	25 uL			
LCS 410-270125/4		8260D					12.5 uL		
MB 410-270125/6		8260D							
410-88520-A-14	HD-QC1-0/1-2	8260D	T						
410-88520-A-1	HD-COD-SW-6-0/1-0	8260D	T						
410-88520-A-2	HD-COD-SW-7-0/1-0	8260D	T						
410-88520-A-3	HD-COD-SW-8-0/1-0	8260D	T						
410-88520-A-4	HD-COD-SW-9-0/1-0	8260D	T						
410-88520-A-5	HD-COD-SW-13-0/1-0	8260D	T						
410-88520-A-6	HD-COD-SW-15-0/1-0	8260D	T						
410-88520-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	T				5.38 uL		
410-88520-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	T				5.38 uL		
410-88520-A-7	HD-COD-SW-16-0/1-0	8260D	T						
410-88520-A-8	HD-COD-SW-17-0/1-0	8260D	T						
410-88520-A-9	HD-COD-SW-26-0/1-0	8260D	T						
410-88520-A-10	HD-COD-SW-27-0/1-0	8260D	T						
410-88520-A-11	HD-COD-SW-28-0/1-0	8260D	T						
410-88520-A-12	HD-COD-SW-29-0/1-0	8260D	T						
410-88520-A-13	HD-QC1-0/1-1	8260D	T						

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-88520-1

SDG No.:

Batch Number: 270125 Batch Start Date: 06/28/22 09:47 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-88520-1

SDG No.:

Batch Number: 271084 Batch Start Date: 06/30/22 09:25 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-271084/1		8260D		1 uL	1 uL				
CCVIS 410-271084/3		8260D		25 mL	25 mL				2646
LCS 410-271084/4		8260D		25 mL	25 mL				2646
MB 410-271084/6		8260D		25 mL	25 mL				2646
410-88520-B-8	HD-COD-SW-17-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	2646
410-88520-B-13	HD-QC1-0/1-1	8260D	T	25 mL	25 mL	<2 SU	N	N	2646

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCS_ETBR 00003	MSV_LCS_ACROL 00064	MSV_LCS_EE 00003	MSV_LCS_VOC#1 00061	MSV_LL_#1_826 00047	MSV_LL_#2_826 00052
BFB 410-271084/1		8260D							
CCVIS 410-271084/3		8260D						25 uL	25 uL
LCS 410-271084/4		8260D		12.5 uL	12.5 uL	12.5 uL	12.5 uL		
MB 410-271084/6		8260D							
410-88520-B-8	HD-COD-SW-17-0/1-0	8260D	T						
410-88520-B-13	HD-QC1-0/1-1	8260D	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_GAS826 00098	MSV_LLcentISS 00004	MSV_QC_Gas826 00087	MSV_V_BFB 00008		
BFB 410-271084/1		8260D					1 uL		
CCVIS 410-271084/3		8260D		25 uL	5 uL				
LCS 410-271084/4		8260D			5 uL	12.5 uL			
MB 410-271084/6		8260D			5 uL				
410-88520-B-8	HD-COD-SW-17-0/1-0	8260D	T		5 uL				
410-88520-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 Laboratorie Job No.: 410-88520-1

SDG No.:

Batch Number: 271084 Batch Start Date: 06/30/22 09:25 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Envirc Request/Chain of Custody

410-88520 Chain of Custody

page 1 of 2.

eurofins | Lancaster Laboratories Environmental

Sample #

Client: Groundwater Sciences Corporation			
Project Name/#: fYNOP Monthly Surface Water	Site ID #: fYNOP, York PA		
Project Manager: Chris O'Neil	P.O. #: 10012.49		
Sampler: Casey Littlefield / Erin Peeling	PWSID #: N/A		
Phone #: (717) 901-8176 / (717) 756-1246	Quote #:		
State where samples were collected: York, PA	For Compliance: Yes ☐ No ☑		

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil ☐ Sediment ☐ Tissue	Matrix: Water ☐ Potable ☐ Ground ☑ Surface ☐ NPDES	Matrix: Other:	Total # of Containers	Analyses Requested: Aqueous VOCs via 8260D (low level - 25 ml purge)	Preservation Codes: H	Remarks
HD-COD-SW-6-0/1-0	6/21/22	1050	X			X		3	X		
HD-COD-SW-7-0/1-0		1130	X			X		3	X		
HD-COD-SW-8-0/1-0		0920	X			X		3	X		
HD-COD-SW-9-0/1-0		1320	X			X		3	X		
HD-COD-SW-13-0/1-0		0940	X			X		3	X		
HD-COD-SW-15-0/1-0		1155	X			X		3	X		
HD-COD-SW-15-0/1-0 MS		1155	X			X		3	X		
HD-COD-SW-15-0/1-0 MSD		1155	X			X		3	X		
HD-COD-SW-16-0/1-0		1015	X			X		3	X		
HD-COD-SW-17-0/1-0		1030	X			X		3	X		

For Lab Use Only

SF #:

SCR #:

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☒ Phone ☐

E-mail Address: ON- FILE

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category	☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: CLP Like Deliverables, Project Specific Analyte List

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	6/22/22	1338			
			[signature]	6/22/22	1338

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other X

Temperature upon receipt -0.9 °C

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # _____ Group # _____ Sample # _____

Client: Groundwater Sciences Corporation

Project Name/#: fYNOP Monthly Surface Water | Site ID #: fYNOP, York PA

Project Manager: Chris O'Neil | P.O. #: 10012.49

Sampler: Casey Littlefield / Erin Peeling | PWSID #: N/A

Phone #: (717) 901-8176 / (717) 756-1246 | Quote #:

State where samples were collected: York, PA | For Compliance: Yes ☐ No ☑

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Tissue	Water: Potable	Ground	Surface	NPDES	Other: Trip Blank	Total # of Containers	Analyses Requested: Aqueous VOCs via 8260D (low level - 25 ml purge)	Preservation Codes: H	Remarks
HD-COD-SW-26-0/1-0	6/21/22	1115	X						X				3	X		
HD-COD-SW-27-0/1-0		1145	X						X				3	X		
HD-COD-SW-28-0/1-0		1340	X						X				3	X		
HD-COD-SW-29-0/1-0		0905	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

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

For Lab Use Only: SF #: _____ SCR #: _____

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: ON-FILE

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐

Type III (Reduced non-CLP) ☐ CT RCP ☐

Type VI (Raw Data Only) ☐ TX TRRP-13 ☐

NJ DKQP ☐ NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: CLP Like Deliverables, Project Specific Analyte List

Relinquished by:	Date	Time	Received by:	Date	Time
	6/22/22	1338			
				6/22/22	1338

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other X

Temperature upon receipt -0.4 °C

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-88520-1

Login Number: 88520
List Number: 1
Creator: Jeremiah, Cory T

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	