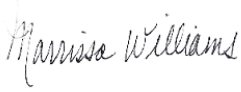
ANALYTICAL REPORT

Job Number: 410-99372-1

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
10/17/2022 3:39 PM

Marrissa C Williams, Project Manager
2425 New Holland Pike, Lancaster, PA, 17601
(717)556-7246
Marrissa.Williams@et.eurofinsus.com
10/17/2022

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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Analyte was found in the blank.
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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
410-99372-1

Receipt
The samples were received on 9/26/2022 6:45 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 3.2°C

GC/MS VOA
Method 8260D_LL: The method blank for 410-303234 contained Carbon disulfide above the method detection limit (MDL). Associated samples were not re-analyzed because results were less than the reporting limit (RL).

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

Detection Summary

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

Job ID: 410-99372-1

Client Sample ID: HD-COD-SW-6-0/1-0 — Lab Sample ID: 410-99372-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.0	J	5.0	1.0	ug/L	1		8260D	Total/NA
Carbon disulfide	0.10	J cn	1.0	0.10	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-7-0/1-0 — Lab Sample ID: 410-99372-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.2	J	5.0	1.0	ug/L	1		8260D	Total/NA
Carbon disulfide	0.17	J cn	1.0	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.087	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-8-0/1-0 — Lab Sample ID: 410-99372-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.3	J	5.0	1.0	ug/L	1		8260D	Total/NA
Carbon disulfide	0.14	J cn	1.0	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.14	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.51		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: 410-99372-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.3	J	5.0	1.0	ug/L	1		8260D	Total/NA
Carbon disulfide	0.14	J cn	1.0	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.083	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
Trichloroethene	0.086	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-13-0/1-0 — Lab Sample ID: 410-99372-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.1	J	5.0	1.0	ug/L	1		8260D	Total/NA
Carbon disulfide	0.16	J cn	1.0	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.13	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.92		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.13	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-15-0/1-0 — Lab Sample ID: 410-99372-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.26	J	0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.11	J	0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.12	J	0.50	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.33	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	5.5		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	1.2		0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-16-0/1-0 — Lab Sample ID: 410-99372-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.086	J	0.50	0.080	ug/L	1		8260D	Total/NA
Acetone	1.3	J	5.0	1.0	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: HD-COD-SW-16-0/1-0 (Continued) — Lab Sample ID: 410-99372-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.16	J cn	1.0	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.15	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.4		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.14	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-17-0/1-0 — Lab Sample ID: 410-99372-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	5.9		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	1.2		0.50	0.10	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.57		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	2.9		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	4.6		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	66	cn	5.0	2.0	ug/L	10		8260D	Total/NA

Client Sample ID: HD-COD-SW-26-0/1-0 — Lab Sample ID: 410-99372-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.13	J	0.50	0.10	ug/L	1		8260D	Total/NA
Carbon disulfide	0.10	J cn	1.0	0.10	ug/L	1		8260D	Total/NA
Chloroform	0.60		0.50	0.090	ug/L	1		8260D	Total/NA
Tetrachloroethene	4.0		0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.15	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-27-0/1-0 — Lab Sample ID: 410-99372-10

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
Carbon disulfide	0.16	J cn	1.0	0.10	ug/L	1		8260D	Total/NA
Trichloroethene	0.084	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-28-0/1-0 — Lab Sample ID: 410-99372-11

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
Carbon disulfide	0.14	J cn	1.0	0.10	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.24	J	0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.084	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-29-0/1-0 — Lab Sample ID: 410-99372-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.2	J	5.0	1.0	ug/L	1		8260D	Total/NA
Carbon disulfide	0.12	J cn	1.0	0.10	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.12	J	0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.44	J	0.50	0.20	ug/L	1		8260D	Total/NA
Trichloroethene	0.13	J	0.50	0.080	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-QC1-0/1-1 — Lab Sample ID: 410-99372-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	6.0		0.50	0.080	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	1.2		0.50	0.10	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: HD-COD-QC1-0/1-1 (Continued)

Lab Sample ID: 410-99372-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.54		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	3.0		0.50	0.080	ug/L	1		8260D	Total/NA
Trichloroethene	4.6		0.50	0.080	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	65		5.0	2.0	ug/L	10		8260D	Total/NA

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

Lab Sample ID: 410-99372-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.11	J cn	1.0	0.10	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: 09/23/22 10:10
Date Received: 09/26/22 18:45

Lab Sample ID: 410-99372-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			10/05/22 12:28	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 12:28	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			10/05/22 12:28	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 12:28	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/05/22 12:28	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 12:28	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			10/05/22 12:28	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			10/05/22 12:28	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			10/05/22 12:28	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			10/05/22 12:28	1
2-Hexanone	ND		5.0	0.10	ug/L			10/05/22 12:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			10/05/22 12:28	1
Acetone	1.0	J	5.0	1.0	ug/L			10/05/22 12:28	1
Benzene	ND		0.50	0.10	ug/L			10/05/22 12:28	1
Bromochloromethane	ND		0.50	0.080	ug/L			10/05/22 12:28	1
Bromodichloromethane	ND		0.50	0.080	ug/L			10/05/22 12:28	1
Bromoform	ND		1.0	0.30	ug/L			10/05/22 12:28	1
Bromomethane	ND		0.50	0.10	ug/L			10/05/22 12:28	1
Carbon disulfide	0.10	J cn	1.0	0.10	ug/L			10/05/22 12:28	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			10/05/22 12:28	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/05/22 12:28	1
Chloroethane	ND		0.50	0.10	ug/L			10/05/22 12:28	1
Chloroform	ND		0.50	0.090	ug/L			10/05/22 12:28	1
Chloromethane	ND		0.50	0.10	ug/L			10/05/22 12:28	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			10/05/22 12:28	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			10/05/22 12:28	1
Dibromochloromethane	ND		0.50	0.080	ug/L			10/05/22 12:28	1
Ethylbenzene	ND		0.50	0.080	ug/L			10/05/22 12:28	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			10/05/22 12:28	1
Methylene Chloride	ND		0.50	0.10	ug/L			10/05/22 12:28	1
Styrene	ND		0.50	0.070	ug/L			10/05/22 12:28	1
Tetrachloroethene	ND		0.50	0.20	ug/L			10/05/22 12:28	1
Toluene	ND		0.50	0.080	ug/L			10/05/22 12:28	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 12:28	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			10/05/22 12:28	1
Trichloroethene	ND		0.50	0.080	ug/L			10/05/22 12:28	1
Vinyl chloride	ND		0.50	0.10	ug/L			10/05/22 12:28	1
Xylenes, Total	ND		1.0	0.070	ug/L			10/05/22 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*10/05/22 12:28*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/05/22 12:28*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*10/05/22 12:28*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*10/05/22 12:28*	*1*

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

Date Collected: 09/23/22 10:55
Date Received: 09/26/22 18:45

Lab Sample ID: 410-99372-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			10/05/22 12:49	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 12:49	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			10/05/22 12:49	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 12:49	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/05/22 12:49	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 12:49	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			10/05/22 12:49	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			10/05/22 12:49	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			10/05/22 12:49	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			10/05/22 12:49	1
2-Hexanone	ND		5.0	0.10	ug/L			10/05/22 12:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			10/05/22 12:49	1
Acetone	1.2	J	5.0	1.0	ug/L			10/05/22 12:49	1
Benzene	ND		0.50	0.10	ug/L			10/05/22 12:49	1
Bromochloromethane	ND		0.50	0.080	ug/L			10/05/22 12:49	1
Bromodichloromethane	ND		0.50	0.080	ug/L			10/05/22 12:49	1
Bromoform	ND		1.0	0.30	ug/L			10/05/22 12:49	1
Bromomethane	ND		0.50	0.10	ug/L			10/05/22 12:49	1
Carbon disulfide	0.17	J cn	1.0	0.10	ug/L			10/05/22 12:49	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			10/05/22 12:49	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/05/22 12:49	1
Chloroethane	ND		0.50	0.10	ug/L			10/05/22 12:49	1
Chloroform	ND		0.50	0.090	ug/L			10/05/22 12:49	1
Chloromethane	ND		0.50	0.10	ug/L			10/05/22 12:49	1
cis-1,2-Dichloroethene	0.087	J	0.50	0.080	ug/L			10/05/22 12:49	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			10/05/22 12:49	1
Dibromochloromethane	ND		0.50	0.080	ug/L			10/05/22 12:49	1
Ethylbenzene	ND		0.50	0.080	ug/L			10/05/22 12:49	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			10/05/22 12:49	1
Methylene Chloride	ND		0.50	0.10	ug/L			10/05/22 12:49	1
Styrene	ND		0.50	0.070	ug/L			10/05/22 12:49	1
Tetrachloroethene	ND		0.50	0.20	ug/L			10/05/22 12:49	1
Toluene	ND		0.50	0.080	ug/L			10/05/22 12:49	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 12:49	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			10/05/22 12:49	1
Trichloroethene	0.10	J	0.50	0.080	ug/L			10/05/22 12:49	1
Vinyl chloride	ND		0.50	0.10	ug/L			10/05/22 12:49	1
Xylenes, Total	ND		1.0	0.070	ug/L			10/05/22 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*10/05/22 12:49*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*10/05/22 12:49*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*10/05/22 12:49*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/05/22 12:49*	*1*

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

Date Collected: 09/23/22 09:00
Date Received: 09/26/22 18:45

Lab Sample ID: 410-99372-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			10/05/22 13:09	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 13:09	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			10/05/22 13:09	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 13:09	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/05/22 13:09	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 13:09	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			10/05/22 13:09	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			10/05/22 13:09	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			10/05/22 13:09	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			10/05/22 13:09	1
2-Hexanone	ND		5.0	0.10	ug/L			10/05/22 13:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			10/05/22 13:09	1
Acetone	1.3	J	5.0	1.0	ug/L			10/05/22 13:09	1
Benzene	ND		0.50	0.10	ug/L			10/05/22 13:09	1
Bromochloromethane	ND		0.50	0.080	ug/L			10/05/22 13:09	1
Bromodichloromethane	ND		0.50	0.080	ug/L			10/05/22 13:09	1
Bromoform	ND		1.0	0.30	ug/L			10/05/22 13:09	1
Bromomethane	ND		0.50	0.10	ug/L			10/05/22 13:09	1
Carbon disulfide	0.14	J cn	1.0	0.10	ug/L			10/05/22 13:09	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			10/05/22 13:09	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/05/22 13:09	1
Chloroethane	ND		0.50	0.10	ug/L			10/05/22 13:09	1
Chloroform	ND		0.50	0.090	ug/L			10/05/22 13:09	1
Chloromethane	ND		0.50	0.10	ug/L			10/05/22 13:09	1
cis-1,2-Dichloroethene	0.14	J	0.50	0.080	ug/L			10/05/22 13:09	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			10/05/22 13:09	1
Dibromochloromethane	ND		0.50	0.080	ug/L			10/05/22 13:09	1
Ethylbenzene	ND		0.50	0.080	ug/L			10/05/22 13:09	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			10/05/22 13:09	1
Methylene Chloride	ND		0.50	0.10	ug/L			10/05/22 13:09	1
Styrene	ND		0.50	0.070	ug/L			10/05/22 13:09	1
Tetrachloroethene	0.51		0.50	0.20	ug/L			10/05/22 13:09	1
Toluene	ND		0.50	0.080	ug/L			10/05/22 13:09	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 13:09	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			10/05/22 13:09	1
Trichloroethene	0.12	J	0.50	0.080	ug/L			10/05/22 13:09	1
Vinyl chloride	ND		0.50	0.10	ug/L			10/05/22 13:09	1
Xylenes, Total	ND		1.0	0.070	ug/L			10/05/22 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*10/05/22 13:09*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*10/05/22 13:09*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*10/05/22 13:09*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*10/05/22 13:09*	*1*

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

Date Collected: 09/23/22 12:20
Date Received: 09/26/22 18:45

Lab Sample ID: 410-99372-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			10/05/22 13:29	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 13:29	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			10/05/22 13:29	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 13:29	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/05/22 13:29	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 13:29	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			10/05/22 13:29	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			10/05/22 13:29	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			10/05/22 13:29	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			10/05/22 13:29	1
2-Hexanone	ND		5.0	0.10	ug/L			10/05/22 13:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			10/05/22 13:29	1
Acetone	2.3	J	5.0	1.0	ug/L			10/05/22 13:29	1
Benzene	ND		0.50	0.10	ug/L			10/05/22 13:29	1
Bromochloromethane	ND		0.50	0.080	ug/L			10/05/22 13:29	1
Bromodichloromethane	ND		0.50	0.080	ug/L			10/05/22 13:29	1
Bromoform	ND		1.0	0.30	ug/L			10/05/22 13:29	1
Bromomethane	ND		0.50	0.10	ug/L			10/05/22 13:29	1
Carbon disulfide	0.14	J cn	1.0	0.10	ug/L			10/05/22 13:29	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			10/05/22 13:29	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/05/22 13:29	1
Chloroethane	ND		0.50	0.10	ug/L			10/05/22 13:29	1
Chloroform	ND		0.50	0.090	ug/L			10/05/22 13:29	1
Chloromethane	ND		0.50	0.10	ug/L			10/05/22 13:29	1
cis-1,2-Dichloroethene	0.083	J	0.50	0.080	ug/L			10/05/22 13:29	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			10/05/22 13:29	1
Dibromochloromethane	ND		0.50	0.080	ug/L			10/05/22 13:29	1
Ethylbenzene	ND		0.50	0.080	ug/L			10/05/22 13:29	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			10/05/22 13:29	1
Methylene Chloride	ND		0.50	0.10	ug/L			10/05/22 13:29	1
Styrene	ND		0.50	0.070	ug/L			10/05/22 13:29	1
Tetrachloroethene	0.21	J	0.50	0.20	ug/L			10/05/22 13:29	1
Toluene	ND		0.50	0.080	ug/L			10/05/22 13:29	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 13:29	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			10/05/22 13:29	1
Trichloroethene	0.086	J	0.50	0.080	ug/L			10/05/22 13:29	1
Vinyl chloride	ND		0.50	0.10	ug/L			10/05/22 13:29	1
Xylenes, Total	ND		1.0	0.070	ug/L			10/05/22 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*10/05/22 13:29*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/05/22 13:29*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*10/05/22 13:29*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/05/22 13:29*	*1*

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

Date Collected: 09/23/22 09:15
Date Received: 09/26/22 18:45

Lab Sample ID: 410-99372-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			10/05/22 13:50	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 13:50	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			10/05/22 13:50	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 13:50	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/05/22 13:50	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 13:50	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			10/05/22 13:50	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			10/05/22 13:50	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			10/05/22 13:50	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			10/05/22 13:50	1
2-Hexanone	ND		5.0	0.10	ug/L			10/05/22 13:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			10/05/22 13:50	1
Acetone	1.1	J	5.0	1.0	ug/L			10/05/22 13:50	1
Benzene	ND		0.50	0.10	ug/L			10/05/22 13:50	1
Bromochloromethane	ND		0.50	0.080	ug/L			10/05/22 13:50	1
Bromodichloromethane	ND		0.50	0.080	ug/L			10/05/22 13:50	1
Bromoform	ND		1.0	0.30	ug/L			10/05/22 13:50	1
Bromomethane	ND		0.50	0.10	ug/L			10/05/22 13:50	1
Carbon disulfide	0.16	J cn	1.0	0.10	ug/L			10/05/22 13:50	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			10/05/22 13:50	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/05/22 13:50	1
Chloroethane	ND		0.50	0.10	ug/L			10/05/22 13:50	1
Chloroform	ND		0.50	0.090	ug/L			10/05/22 13:50	1
Chloromethane	ND		0.50	0.10	ug/L			10/05/22 13:50	1
cis-1,2-Dichloroethene	0.13	J	0.50	0.080	ug/L			10/05/22 13:50	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			10/05/22 13:50	1
Dibromochloromethane	ND		0.50	0.080	ug/L			10/05/22 13:50	1
Ethylbenzene	ND		0.50	0.080	ug/L			10/05/22 13:50	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			10/05/22 13:50	1
Methylene Chloride	ND		0.50	0.10	ug/L			10/05/22 13:50	1
Styrene	ND		0.50	0.070	ug/L			10/05/22 13:50	1
Tetrachloroethene	0.92		0.50	0.20	ug/L			10/05/22 13:50	1
Toluene	ND		0.50	0.080	ug/L			10/05/22 13:50	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 13:50	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			10/05/22 13:50	1
Trichloroethene	0.13	J	0.50	0.080	ug/L			10/05/22 13:50	1
Vinyl chloride	ND		0.50	0.10	ug/L			10/05/22 13:50	1
Xylenes, Total	ND		1.0	0.070	ug/L			10/05/22 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*10/05/22 13:50*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/05/22 13:50*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*10/05/22 13:50*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/05/22 13:50*	*1*

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

Date Collected: 09/23/22 11:25
Date Received: 09/26/22 18:45

Lab Sample ID: 410-99372-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			10/05/22 14:10	1
1,1,1-Trichloroethane	**0.26**	**J**	0.50	0.080	ug/L			10/05/22 14:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			10/05/22 14:10	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 14:10	1
1,1-Dichloroethane	**0.11**	**J**	0.50	0.10	ug/L			10/05/22 14:10	1
1,1-Dichloroethene	**0.12**	**J**	0.50	0.10	ug/L			10/05/22 14:10	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			10/05/22 14:10	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			10/05/22 14:10	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			10/05/22 14:10	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			10/05/22 14:10	1
2-Hexanone	ND		5.0	0.10	ug/L			10/05/22 14:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			10/05/22 14:10	1
Acetone	ND		5.0	1.0	ug/L			10/05/22 14:10	1
Benzene	ND		0.50	0.10	ug/L			10/05/22 14:10	1
Bromochloromethane	ND		0.50	0.080	ug/L			10/05/22 14:10	1
Bromodichloromethane	ND		0.50	0.080	ug/L			10/05/22 14:10	1
Bromoform	ND		1.0	0.30	ug/L			10/05/22 14:10	1
Bromomethane	ND		0.50	0.10	ug/L			10/05/22 14:10	1
Carbon disulfide	ND		1.0	0.10	ug/L			10/05/22 14:10	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			10/05/22 14:10	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/05/22 14:10	1
Chloroethane	ND		0.50	0.10	ug/L			10/05/22 14:10	1
Chloroform	**0.33**	**J**	0.50	0.090	ug/L			10/05/22 14:10	1
Chloromethane	ND		0.50	0.10	ug/L			10/05/22 14:10	1
cis-1,2-Dichloroethene	**1.3**		0.50	0.080	ug/L			10/05/22 14:10	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			10/05/22 14:10	1
Dibromochloromethane	ND		0.50	0.080	ug/L			10/05/22 14:10	1
Ethylbenzene	ND		0.50	0.080	ug/L			10/05/22 14:10	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			10/05/22 14:10	1
Methylene Chloride	ND		0.50	0.10	ug/L			10/05/22 14:10	1
Styrene	ND		0.50	0.070	ug/L			10/05/22 14:10	1
Tetrachloroethene	**5.5**		0.50	0.20	ug/L			10/05/22 14:10	1
Toluene	ND		0.50	0.080	ug/L			10/05/22 14:10	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 14:10	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			10/05/22 14:10	1
Trichloroethene	**1.2**		0.50	0.080	ug/L			10/05/22 14:10	1
Vinyl chloride	ND		0.50	0.10	ug/L			10/05/22 14:10	1
Xylenes, Total	ND		1.0	0.070	ug/L			10/05/22 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*10/05/22 14:10*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/05/22 14:10*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*10/05/22 14:10*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/05/22 14:10*	*1*

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

Date Collected: 09/23/22 09:35
Date Received: 09/26/22 18:45

Lab Sample ID: 410-99372-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			10/05/22 15:11	1
1,1,1-Trichloroethane	**0.086**	**J**	0.50	0.080	ug/L			10/05/22 15:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			10/05/22 15:11	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 15:11	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/05/22 15:11	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 15:11	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			10/05/22 15:11	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			10/05/22 15:11	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			10/05/22 15:11	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			10/05/22 15:11	1
2-Hexanone	ND		5.0	0.10	ug/L			10/05/22 15:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			10/05/22 15:11	1
Acetone	**1.3**	**J**	5.0	1.0	ug/L			10/05/22 15:11	1
Benzene	ND		0.50	0.10	ug/L			10/05/22 15:11	1
Bromochloromethane	ND		0.50	0.080	ug/L			10/05/22 15:11	1
Bromodichloromethane	ND		0.50	0.080	ug/L			10/05/22 15:11	1
Bromoform	ND		1.0	0.30	ug/L			10/05/22 15:11	1
Bromomethane	ND		0.50	0.10	ug/L			10/05/22 15:11	1
Carbon disulfide	**0.16**	**J cn**	1.0	0.10	ug/L			10/05/22 15:11	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			10/05/22 15:11	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/05/22 15:11	1
Chloroethane	ND		0.50	0.10	ug/L			10/05/22 15:11	1
Chloroform	ND		0.50	0.090	ug/L			10/05/22 15:11	1
Chloromethane	ND		0.50	0.10	ug/L			10/05/22 15:11	1
cis-1,2-Dichloroethene	**0.15**	**J**	0.50	0.080	ug/L			10/05/22 15:11	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			10/05/22 15:11	1
Dibromochloromethane	ND		0.50	0.080	ug/L			10/05/22 15:11	1
Ethylbenzene	ND		0.50	0.080	ug/L			10/05/22 15:11	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			10/05/22 15:11	1
Methylene Chloride	ND		0.50	0.10	ug/L			10/05/22 15:11	1
Styrene	ND		0.50	0.070	ug/L			10/05/22 15:11	1
Tetrachloroethene	**1.4**		0.50	0.20	ug/L			10/05/22 15:11	1
Toluene	ND		0.50	0.080	ug/L			10/05/22 15:11	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 15:11	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			10/05/22 15:11	1
Trichloroethene	**0.14**	**J**	0.50	0.080	ug/L			10/05/22 15:11	1
Vinyl chloride	ND		0.50	0.10	ug/L			10/05/22 15:11	1
Xylenes, Total	ND		1.0	0.070	ug/L			10/05/22 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*10/05/22 15:11*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/05/22 15:11*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*10/05/22 15:11*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/05/22 15:11*	*1*

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

Date Collected: 09/23/22 09:55
Date Received: 09/26/22 18:45

Lab Sample ID: 410-99372-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			10/05/22 15:31	1
1,1,1-Trichloroethane	**5.9**		0.50	0.080	ug/L			10/05/22 15:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			10/05/22 15:31	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 15:31	1
1,1-Dichloroethane	**1.2**		0.50	0.10	ug/L			10/05/22 15:31	1
1,1-Dichloroethene	**0.57**		0.50	0.10	ug/L			10/05/22 15:31	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			10/05/22 15:31	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			10/05/22 15:31	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			10/05/22 15:31	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			10/05/22 15:31	1
2-Hexanone	ND		5.0	0.10	ug/L			10/05/22 15:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			10/05/22 15:31	1
Acetone	ND		5.0	1.0	ug/L			10/05/22 15:31	1
Benzene	ND		0.50	0.10	ug/L			10/05/22 15:31	1
Bromochloromethane	ND		0.50	0.080	ug/L			10/05/22 15:31	1
Bromodichloromethane	ND		0.50	0.080	ug/L			10/05/22 15:31	1
Bromoform	ND		1.0	0.30	ug/L			10/05/22 15:31	1
Bromomethane	ND		0.50	0.10	ug/L			10/05/22 15:31	1
Carbon disulfide	ND		1.0	0.10	ug/L			10/05/22 15:31	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			10/05/22 15:31	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/05/22 15:31	1
Chloroethane	ND		0.50	0.10	ug/L			10/05/22 15:31	1
Chloroform	**0.30**	**J**	0.50	0.090	ug/L			10/05/22 15:31	1
Chloromethane	ND		0.50	0.10	ug/L			10/05/22 15:31	1
cis-1,2-Dichloroethene	**2.9**		0.50	0.080	ug/L			10/05/22 15:31	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			10/05/22 15:31	1
Dibromochloromethane	ND		0.50	0.080	ug/L			10/05/22 15:31	1
Ethylbenzene	ND		0.50	0.080	ug/L			10/05/22 15:31	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			10/05/22 15:31	1
Methylene Chloride	ND		0.50	0.10	ug/L			10/05/22 15:31	1
Styrene	ND		0.50	0.070	ug/L			10/05/22 15:31	1
Toluene	ND		0.50	0.080	ug/L			10/05/22 15:31	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 15:31	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			10/05/22 15:31	1
Trichloroethene	**4.6**		0.50	0.080	ug/L			10/05/22 15:31	1
Vinyl chloride	ND		0.50	0.10	ug/L			10/05/22 15:31	1
Xylenes, Total	ND		1.0	0.070	ug/L			10/05/22 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*10/05/22 15:31*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/05/22 15:31*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*10/05/22 15:31*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/05/22 15:31*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**66**	**cn**	5.0	2.0	ug/L			10/07/22 16:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*	*cn*	*80 - 120*		*10/07/22 16:01*	*10*

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

Lab Sample ID: 410-99372-8

Date Collected: 09/23/22 09:55
Matrix: Water
Date Received: 09/26/22 18:45

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*	*cn*	*80 - 120*		*10/07/22 16:01*	*10*
Dibromofluoromethane (Surr)	*106*	*cn*	*80 - 120*		*10/07/22 16:01*	*10*
Toluene-d8 (Surr)	*96*	*cn*	*80 - 120*		*10/07/22 16:01*	*10*

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

Lab Sample ID: 410-99372-9

Date Collected: 09/23/22 10:35
Matrix: Water
Date Received: 09/26/22 18:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			10/05/22 15:52	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 15:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			10/05/22 15:52	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 15:52	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/05/22 15:52	1
1,1-Dichloroethene	**0.13**	**J**	0.50	0.10	ug/L			10/05/22 15:52	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			10/05/22 15:52	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			10/05/22 15:52	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			10/05/22 15:52	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			10/05/22 15:52	1
2-Hexanone	ND		5.0	0.10	ug/L			10/05/22 15:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			10/05/22 15:52	1
Acetone	ND		5.0	1.0	ug/L			10/05/22 15:52	1
Benzene	ND		0.50	0.10	ug/L			10/05/22 15:52	1
Bromochloromethane	ND		0.50	0.080	ug/L			10/05/22 15:52	1
Bromodichloromethane	ND		0.50	0.080	ug/L			10/05/22 15:52	1
Bromoform	ND		1.0	0.30	ug/L			10/05/22 15:52	1
Bromomethane	ND		0.50	0.10	ug/L			10/05/22 15:52	1
Carbon disulfide	**0.10**	**J cn**	1.0	0.10	ug/L			10/05/22 15:52	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			10/05/22 15:52	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/05/22 15:52	1
Chloroethane	ND		0.50	0.10	ug/L			10/05/22 15:52	1
Chloroform	**0.60**		0.50	0.090	ug/L			10/05/22 15:52	1
Chloromethane	ND		0.50	0.10	ug/L			10/05/22 15:52	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			10/05/22 15:52	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			10/05/22 15:52	1
Dibromochloromethane	ND		0.50	0.080	ug/L			10/05/22 15:52	1
Ethylbenzene	ND		0.50	0.080	ug/L			10/05/22 15:52	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			10/05/22 15:52	1
Methylene Chloride	ND		0.50	0.10	ug/L			10/05/22 15:52	1
Styrene	ND		0.50	0.070	ug/L			10/05/22 15:52	1
Tetrachloroethene	**4.0**		0.50	0.20	ug/L			10/05/22 15:52	1
Toluene	ND		0.50	0.080	ug/L			10/05/22 15:52	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 15:52	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			10/05/22 15:52	1
Trichloroethene	**0.15**	**J**	0.50	0.080	ug/L			10/05/22 15:52	1
Vinyl chloride	ND		0.50	0.10	ug/L			10/05/22 15:52	1
Xylenes, Total	ND		1.0	0.070	ug/L			10/05/22 15:52	1

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

Lab Sample ID: 410-99372-9

Date Collected: 09/23/22 10:35

Matrix: Water

Date Received: 09/26/22 18:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*10/05/22 15:52*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*10/05/22 15:52*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*10/05/22 15:52*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/05/22 15:52*	*1*

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

Lab Sample ID: 410-99372-10

Date Collected: 09/23/22 11:15

Matrix: Water

Date Received: 09/26/22 18:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			10/05/22 16:12	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 16:12	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			10/05/22 16:12	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 16:12	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/05/22 16:12	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 16:12	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			10/05/22 16:12	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			10/05/22 16:12	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			10/05/22 16:12	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			10/05/22 16:12	1
2-Hexanone	ND		5.0	0.10	ug/L			10/05/22 16:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			10/05/22 16:12	1
Acetone	**1.7**	**J**	5.0	1.0	ug/L			10/05/22 16:12	1
Benzene	ND		0.50	0.10	ug/L			10/05/22 16:12	1
Bromochloromethane	ND		0.50	0.080	ug/L			10/05/22 16:12	1
Bromodichloromethane	ND		0.50	0.080	ug/L			10/05/22 16:12	1
Bromoform	ND		1.0	0.30	ug/L			10/05/22 16:12	1
Bromomethane	ND		0.50	0.10	ug/L			10/05/22 16:12	1
Carbon disulfide	**0.16**	**J cn**	1.0	0.10	ug/L			10/05/22 16:12	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			10/05/22 16:12	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/05/22 16:12	1
Chloroethane	ND		0.50	0.10	ug/L			10/05/22 16:12	1
Chloroform	ND		0.50	0.090	ug/L			10/05/22 16:12	1
Chloromethane	ND		0.50	0.10	ug/L			10/05/22 16:12	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			10/05/22 16:12	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			10/05/22 16:12	1
Dibromochloromethane	ND		0.50	0.080	ug/L			10/05/22 16:12	1
Ethylbenzene	ND		0.50	0.080	ug/L			10/05/22 16:12	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			10/05/22 16:12	1
Methylene Chloride	ND		0.50	0.10	ug/L			10/05/22 16:12	1
Styrene	ND		0.50	0.070	ug/L			10/05/22 16:12	1
Tetrachloroethene	ND		0.50	0.20	ug/L			10/05/22 16:12	1
Toluene	ND		0.50	0.080	ug/L			10/05/22 16:12	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 16:12	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			10/05/22 16:12	1
Trichloroethene	**0.084**	**J**	0.50	0.080	ug/L			10/05/22 16:12	1
Vinyl chloride	ND		0.50	0.10	ug/L			10/05/22 16:12	1
Xylenes, Total	ND		1.0	0.070	ug/L			10/05/22 16:12	1

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

Lab Sample ID: 410-99372-10

Date Collected: 09/23/22 11:15
Matrix: Water
Date Received: 09/26/22 18:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*10/05/22 16:12*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/05/22 16:12*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*10/05/22 16:12*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/05/22 16:12*	*1*

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

Lab Sample ID: 410-99372-11

Date Collected: 09/23/22 12:35
Matrix: Water
Date Received: 09/26/22 18:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			10/05/22 16:33	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 16:33	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			10/05/22 16:33	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 16:33	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/05/22 16:33	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 16:33	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			10/05/22 16:33	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			10/05/22 16:33	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			10/05/22 16:33	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			10/05/22 16:33	1
2-Hexanone	ND		5.0	0.10	ug/L			10/05/22 16:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			10/05/22 16:33	1
Acetone	**2.1**	**J**	5.0	1.0	ug/L			10/05/22 16:33	1
Benzene	ND		0.50	0.10	ug/L			10/05/22 16:33	1
Bromochloromethane	ND		0.50	0.080	ug/L			10/05/22 16:33	1
Bromodichloromethane	ND		0.50	0.080	ug/L			10/05/22 16:33	1
Bromoform	ND		1.0	0.30	ug/L			10/05/22 16:33	1
Bromomethane	ND		0.50	0.10	ug/L			10/05/22 16:33	1
Carbon disulfide	**0.14**	**J cn**	1.0	0.10	ug/L			10/05/22 16:33	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			10/05/22 16:33	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/05/22 16:33	1
Chloroethane	ND		0.50	0.10	ug/L			10/05/22 16:33	1
Chloroform	ND		0.50	0.090	ug/L			10/05/22 16:33	1
Chloromethane	ND		0.50	0.10	ug/L			10/05/22 16:33	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			10/05/22 16:33	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			10/05/22 16:33	1
Dibromochloromethane	ND		0.50	0.080	ug/L			10/05/22 16:33	1
Ethylbenzene	ND		0.50	0.080	ug/L			10/05/22 16:33	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			10/05/22 16:33	1
Methylene Chloride	ND		0.50	0.10	ug/L			10/05/22 16:33	1
Styrene	ND		0.50	0.070	ug/L			10/05/22 16:33	1
Tetrachloroethene	**0.24**	**J**	0.50	0.20	ug/L			10/05/22 16:33	1
Toluene	ND		0.50	0.080	ug/L			10/05/22 16:33	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 16:33	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			10/05/22 16:33	1
Trichloroethene	**0.084**	**J**	0.50	0.080	ug/L			10/05/22 16:33	1
Vinyl chloride	ND		0.50	0.10	ug/L			10/05/22 16:33	1
Xylenes, Total	ND		1.0	0.070	ug/L			10/05/22 16:33	1

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

Lab Sample ID: 410-99372-11

Date Collected: 09/23/22 12:35
Matrix: Water
Date Received: 09/26/22 18:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*10/05/22 16:33*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/05/22 16:33*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*10/05/22 16:33*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/05/22 16:33*	*1*

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

Lab Sample ID: 410-99372-12

Date Collected: 09/23/22 08:45
Matrix: Water
Date Received: 09/26/22 18:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			10/05/22 16:53	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 16:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			10/05/22 16:53	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 16:53	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/05/22 16:53	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 16:53	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			10/05/22 16:53	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			10/05/22 16:53	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			10/05/22 16:53	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			10/05/22 16:53	1
2-Hexanone	ND		5.0	0.10	ug/L			10/05/22 16:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			10/05/22 16:53	1
Acetone	**1.2**	**J**	5.0	1.0	ug/L			10/05/22 16:53	1
Benzene	ND		0.50	0.10	ug/L			10/05/22 16:53	1
Bromochloromethane	ND		0.50	0.080	ug/L			10/05/22 16:53	1
Bromodichloromethane	ND		0.50	0.080	ug/L			10/05/22 16:53	1
Bromoform	ND		1.0	0.30	ug/L			10/05/22 16:53	1
Bromomethane	ND		0.50	0.10	ug/L			10/05/22 16:53	1
Carbon disulfide	**0.12**	**J cn**	1.0	0.10	ug/L			10/05/22 16:53	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			10/05/22 16:53	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/05/22 16:53	1
Chloroethane	ND		0.50	0.10	ug/L			10/05/22 16:53	1
Chloroform	ND		0.50	0.090	ug/L			10/05/22 16:53	1
Chloromethane	ND		0.50	0.10	ug/L			10/05/22 16:53	1
cis-1,2-Dichloroethene	**0.12**	**J**	0.50	0.080	ug/L			10/05/22 16:53	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			10/05/22 16:53	1
Dibromochloromethane	ND		0.50	0.080	ug/L			10/05/22 16:53	1
Ethylbenzene	ND		0.50	0.080	ug/L			10/05/22 16:53	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			10/05/22 16:53	1
Methylene Chloride	ND		0.50	0.10	ug/L			10/05/22 16:53	1
Styrene	ND		0.50	0.070	ug/L			10/05/22 16:53	1
Tetrachloroethene	**0.44**	**J**	0.50	0.20	ug/L			10/05/22 16:53	1
Toluene	ND		0.50	0.080	ug/L			10/05/22 16:53	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 16:53	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			10/05/22 16:53	1
Trichloroethene	**0.13**	**J**	0.50	0.080	ug/L			10/05/22 16:53	1
Vinyl chloride	ND		0.50	0.10	ug/L			10/05/22 16:53	1
Xylenes, Total	ND		1.0	0.070	ug/L			10/05/22 16:53	1

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

Lab Sample ID: 410-99372-12

Date Collected: 09/23/22 08:45
Matrix: Water
Date Received: 09/26/22 18:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*10/05/22 16:53*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*10/05/22 16:53*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*10/05/22 16:53*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/05/22 16:53*	*1*

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

Lab Sample ID: 410-99372-13

Date Collected: 09/23/22 08:00
Matrix: Water
Date Received: 09/26/22 18:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			10/05/22 17:13	1
1,1,1-Trichloroethane	**6.0**		0.50	0.080	ug/L			10/05/22 17:13	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			10/05/22 17:13	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 17:13	1
1,1-Dichloroethane	**1.2**		0.50	0.10	ug/L			10/05/22 17:13	1
1,1-Dichloroethene	**0.54**		0.50	0.10	ug/L			10/05/22 17:13	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			10/05/22 17:13	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			10/05/22 17:13	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			10/05/22 17:13	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			10/05/22 17:13	1
2-Hexanone	ND		5.0	0.10	ug/L			10/05/22 17:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			10/05/22 17:13	1
Acetone	ND		5.0	1.0	ug/L			10/05/22 17:13	1
Benzene	ND		0.50	0.10	ug/L			10/05/22 17:13	1
Bromochloromethane	ND		0.50	0.080	ug/L			10/05/22 17:13	1
Bromodichloromethane	ND		0.50	0.080	ug/L			10/05/22 17:13	1
Bromoform	ND		1.0	0.30	ug/L			10/05/22 17:13	1
Bromomethane	ND		0.50	0.10	ug/L			10/05/22 17:13	1
Carbon disulfide	ND		1.0	0.10	ug/L			10/05/22 17:13	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			10/05/22 17:13	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/05/22 17:13	1
Chloroethane	ND		0.50	0.10	ug/L			10/05/22 17:13	1
Chloroform	**0.30**	**J**	0.50	0.090	ug/L			10/05/22 17:13	1
Chloromethane	ND		0.50	0.10	ug/L			10/05/22 17:13	1
cis-1,2-Dichloroethene	**3.0**		0.50	0.080	ug/L			10/05/22 17:13	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			10/05/22 17:13	1
Dibromochloromethane	ND		0.50	0.080	ug/L			10/05/22 17:13	1
Ethylbenzene	ND		0.50	0.080	ug/L			10/05/22 17:13	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			10/05/22 17:13	1
Methylene Chloride	ND		0.50	0.10	ug/L			10/05/22 17:13	1
Styrene	ND		0.50	0.070	ug/L			10/05/22 17:13	1
Toluene	ND		0.50	0.080	ug/L			10/05/22 17:13	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 17:13	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			10/05/22 17:13	1
Trichloroethene	**4.6**		0.50	0.080	ug/L			10/05/22 17:13	1
Vinyl chloride	ND		0.50	0.10	ug/L			10/05/22 17:13	1
Xylenes, Total	ND		1.0	0.070	ug/L			10/05/22 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*10/05/22 17:13*	*1*

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

Lab Sample ID: 410-99372-13

Date Collected: 09/23/22 08:00

Matrix: Water

Date Received: 09/26/22 18:45

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*10/05/22 17:13*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*10/05/22 17:13*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/05/22 17:13*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**65**		5.0	2.0	ug/L			10/05/22 17:34	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*10/05/22 17:34*	*10*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*10/05/22 17:34*	*10*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*10/05/22 17:34*	*10*
Toluene-d8 (Surr)	*103*		*80 - 120*		*10/05/22 17:34*	*10*

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

Lab Sample ID: 410-99372-14

Date Collected: 09/23/22 00:00

Matrix: Water

Date Received: 09/26/22 18:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			10/05/22 11:07	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 11:07	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			10/05/22 11:07	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 11:07	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/05/22 11:07	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 11:07	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			10/05/22 11:07	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			10/05/22 11:07	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			10/05/22 11:07	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			10/05/22 11:07	1
2-Hexanone	ND		5.0	0.10	ug/L			10/05/22 11:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			10/05/22 11:07	1
Acetone	ND		5.0	1.0	ug/L			10/05/22 11:07	1
Benzene	ND		0.50	0.10	ug/L			10/05/22 11:07	1
Bromochloromethane	ND		0.50	0.080	ug/L			10/05/22 11:07	1
Bromodichloromethane	ND		0.50	0.080	ug/L			10/05/22 11:07	1
Bromoform	ND		1.0	0.30	ug/L			10/05/22 11:07	1
Bromomethane	ND		0.50	0.10	ug/L			10/05/22 11:07	1
Carbon disulfide	**0.11**	**J cn**	1.0	0.10	ug/L			10/05/22 11:07	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			10/05/22 11:07	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/05/22 11:07	1
Chloroethane	ND		0.50	0.10	ug/L			10/05/22 11:07	1
Chloroform	ND		0.50	0.090	ug/L			10/05/22 11:07	1
Chloromethane	ND		0.50	0.10	ug/L			10/05/22 11:07	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			10/05/22 11:07	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			10/05/22 11:07	1
Dibromochloromethane	ND		0.50	0.080	ug/L			10/05/22 11:07	1
Ethylbenzene	ND		0.50	0.080	ug/L			10/05/22 11:07	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			10/05/22 11:07	1
Methylene Chloride	ND		0.50	0.10	ug/L			10/05/22 11:07	1

Client Sample ID: HD-COD-QC1-0/1-2
Lab Sample ID: 410-99372-14

Date Collected: 09/23/22 00:00
Matrix: Water
Date Received: 09/26/22 18:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.50	0.070	ug/L			10/05/22 11:07	1
Tetrachloroethene	ND		0.50	0.20	ug/L			10/05/22 11:07	1
Toluene	ND		0.50	0.080	ug/L			10/05/22 11:07	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 11:07	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			10/05/22 11:07	1
Trichloroethene	ND		0.50	0.080	ug/L			10/05/22 11:07	1
Vinyl chloride	ND		0.50	0.10	ug/L			10/05/22 11:07	1
Xylenes, Total	ND		1.0	0.070	ug/L			10/05/22 11:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*10/05/22 11:07*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*10/05/22 11:07*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*10/05/22 11:07*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/05/22 11:07*	*1*

Default Detection Limits

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

Job ID: 410-99372-1

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: 410-99372-1

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)
410-99372-1	HD-COD-SW-6-0/1-0	106	97	99	105
410-99372-2	HD-COD-SW-7-0/1-0	104	96	100	103
410-99372-3	HD-COD-SW-8-0/1-0	102	96	99	105
410-99372-4	HD-COD-SW-9-0/1-0	106	97	98	103
410-99372-5	HD-COD-SW-13-0/1-0	105	97	99	104
410-99372-6	HD-COD-SW-15-0/1-0	103	97	99	104
410-99372-6 MS	HD-COD-SW-15-0/1-0 MS	105	100	100	104
410-99372-6 MSD	HD-COD-SW-15-0/1-0 MSD	106	99	100	105
410-99372-7	HD-COD-SW-16-0/1-0	104	97	100	103
410-99372-8	HD-COD-SW-17-0/1-0	104	97	99	103
410-99372-8 - DL	HD-COD-SW-17-0/1-0	108 cn	94 cn	106 cn	96 cn
410-99372-9	HD-COD-SW-26-0/1-0	108	98	99	104
410-99372-10	HD-COD-SW-27-0/1-0	106	97	98	103
410-99372-11	HD-COD-SW-28-0/1-0	108	97	99	103
410-99372-12	HD-COD-SW-29-0/1-0	102	95	99	103
410-99372-13	HD-COD-QC1-0/1-1	106	95	100	101
410-99372-13 - DL	HD-COD-QC1-0/1-1	102	96	99	103
410-99372-14	HD-COD-QC1-0/1-2	108	96	100	104
LCS 410-303234/4	Lab Control Sample	104	100	99	105
LCS 410-304184/4	Lab Control Sample	104	98	106	96
MB 410-303234/6	Method Blank	104	96	98	104
MB 410-304184/6	Method Blank	108	95	105	95

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 410-303234/6
Matrix: Water
Analysis Batch: 303234

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			10/05/22 10:47	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 10:47	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			10/05/22 10:47	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			10/05/22 10:47	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/05/22 10:47	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 10:47	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			10/05/22 10:47	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			10/05/22 10:47	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			10/05/22 10:47	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			10/05/22 10:47	1
2-Hexanone	ND		5.0	0.10	ug/L			10/05/22 10:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			10/05/22 10:47	1
Acetone	ND		5.0	1.0	ug/L			10/05/22 10:47	1
Benzene	ND		0.50	0.10	ug/L			10/05/22 10:47	1
Bromochloromethane	ND		0.50	0.080	ug/L			10/05/22 10:47	1
Bromodichloromethane	ND		0.50	0.080	ug/L			10/05/22 10:47	1
Bromoform	ND		1.0	0.30	ug/L			10/05/22 10:47	1
Bromomethane	ND		0.50	0.10	ug/L			10/05/22 10:47	1
Carbon disulfide	0.138	J	1.0	0.10	ug/L			10/05/22 10:47	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			10/05/22 10:47	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/05/22 10:47	1
Chloroethane	ND		0.50	0.10	ug/L			10/05/22 10:47	1
Chloroform	ND		0.50	0.090	ug/L			10/05/22 10:47	1
Chloromethane	ND		0.50	0.10	ug/L			10/05/22 10:47	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			10/05/22 10:47	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			10/05/22 10:47	1
Dibromochloromethane	ND		0.50	0.080	ug/L			10/05/22 10:47	1
Ethylbenzene	ND		0.50	0.080	ug/L			10/05/22 10:47	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			10/05/22 10:47	1
Methylene Chloride	ND		0.50	0.10	ug/L			10/05/22 10:47	1
Styrene	ND		0.50	0.070	ug/L			10/05/22 10:47	1
Tetrachloroethene	ND		0.50	0.20	ug/L			10/05/22 10:47	1
Toluene	ND		0.50	0.080	ug/L			10/05/22 10:47	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			10/05/22 10:47	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			10/05/22 10:47	1
Trichloroethene	ND		0.50	0.080	ug/L			10/05/22 10:47	1
Vinyl chloride	ND		0.50	0.10	ug/L			10/05/22 10:47	1
Xylenes, Total	ND		1.0	0.070	ug/L			10/05/22 10:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*10/05/22 10:47*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*10/05/22 10:47*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 120*		*10/05/22 10:47*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*10/05/22 10:47*	*1*

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

Lab Sample ID: LCS 410-303234/4
Matrix: Water
Analysis Batch: 303234

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	4.87		ug/L		97	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.68		ug/L		114	75 - 123
1,1,2-Trichloroethane	5.00	5.50		ug/L		110	80 - 120
1,1-Dichloroethane	5.00	4.96		ug/L		99	74 - 120
1,1-Dichloroethene	5.00	4.79		ug/L		96	80 - 131
1,2-Dibromoethane (EDB)	5.00	5.71		ug/L		114	80 - 120
1,2-Dichloroethane	5.00	5.61		ug/L		112	69 - 122
1,2-Dichloropropane	5.00	4.98		ug/L		100	80 - 120
2-Butanone (MEK)	62.5	58.5		ug/L		94	59 - 141
2-Hexanone	62.5	57.1		ug/L		91	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	54.3		ug/L		87	55 - 140
Acetone	62.5	53.8		ug/L		86	60 - 146
Benzene	5.00	4.88		ug/L		98	80 - 120
Bromochloromethane	5.00	5.19		ug/L		104	80 - 120
Bromodichloromethane	5.00	5.35		ug/L		107	73 - 124
Bromoform	5.00	5.91		ug/L		118	49 - 144
Bromomethane	5.00	4.39		ug/L		88	60 - 136
Carbon disulfide	5.00	5.39		ug/L		108	67 - 130
Carbon tetrachloride	5.00	4.87		ug/L		97	64 - 141
Chlorobenzene	5.00	5.32		ug/L		106	80 - 120
Chloroethane	5.00	4.61		ug/L		92	63 - 120
Chloroform	5.00	4.99		ug/L		100	80 - 120
Chloromethane	5.00	4.45		ug/L		89	56 - 124
cis-1,2-Dichloroethene	5.00	4.98		ug/L		100	80 - 122
cis-1,3-Dichloropropene	5.00	5.05		ug/L		101	67 - 121
Dibromochloromethane	5.00	5.66		ug/L		113	64 - 138
Ethylbenzene	5.00	5.22		ug/L		104	80 - 120
Methyl tert-butyl ether	5.00	5.16		ug/L		103	69 - 120
Methylene Chloride	5.00	4.99		ug/L		100	80 - 120
Styrene	5.00	5.33		ug/L		107	80 - 120
Tetrachloroethene	5.00	5.22		ug/L		104	80 - 120
Toluene	5.00	5.25		ug/L		105	80 - 120
trans-1,2-Dichloroethene	5.00	4.78		ug/L		96	80 - 122
trans-1,3-Dichloropropene	5.00	5.83		ug/L		117	61 - 129
Trichloroethene	5.00	4.81		ug/L		96	80 - 120
Vinyl chloride	5.00	4.24		ug/L		85	60 - 125
Xylenes, Total	15.0	15.8		ug/L		105	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*

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

Lab Sample ID: 410-99372-6 MS
Matrix: Water
Analysis Batch: 303234

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	5.19		ug/L		104	71 - 134
1,1,1-Trichloroethane	0.26	J	5.00	5.17		ug/L		98	78 - 126
1,1,2,2-Tetrachloroethane	ND		5.00	5.25		ug/L		105	75 - 123
1,1,2-Trichloroethane	ND		5.00	5.26		ug/L		105	80 - 120
1,1-Dichloroethane	0.11	J	5.00	4.96		ug/L		97	74 - 120
1,1-Dichloroethene	0.12	J	5.00	5.10		ug/L		99	80 - 131
1,2-Dibromoethane (EDB)	ND		5.00	5.55		ug/L		111	80 - 120
1,2-Dichloroethane	ND		5.00	5.40		ug/L		108	69 - 122
1,2-Dichloropropane	ND		5.00	4.93		ug/L		99	80 - 120
2-Butanone (MEK)	ND		62.6	56.7		ug/L		91	59 - 141
2-Hexanone	ND		62.6	57.6		ug/L		92	52 - 140
4-Methyl-2-pentanone (MIBK)	ND		62.6	54.6		ug/L		87	55 - 140
Acetone	ND		62.6	53.7		ug/L		86	60 - 146
Benzene	ND		5.00	4.87		ug/L		97	80 - 120
Bromochloromethane	ND		5.00	4.95		ug/L		99	80 - 120
Bromodichloromethane	ND		5.00	5.10		ug/L		102	73 - 124
Bromoform	ND		5.00	5.40		ug/L		108	49 - 144
Bromomethane	ND		5.00	4.55		ug/L		91	60 - 136
Carbon disulfide	ND		5.00	5.33		ug/L		106	67 - 130
Carbon tetrachloride	ND		5.00	4.97		ug/L		99	64 - 141
Chlorobenzene	ND		5.00	5.28		ug/L		105	80 - 120
Chloroethane	ND		5.00	4.76		ug/L		95	63 - 120
Chloroform	0.33	J	5.00	5.30		ug/L		99	80 - 120
Chloromethane	ND		5.00	4.76		ug/L		95	80 - 120
cis-1,2-Dichloroethene	1.3		5.00	6.17		ug/L		98	80 - 122
cis-1,3-Dichloropropene	ND		5.00	4.93		ug/L		99	67 - 121
Dibromochloromethane	ND		5.00	5.50		ug/L		110	64 - 138
Ethylbenzene	ND		5.00	5.15		ug/L		103	80 - 120
Methyl tert-butyl ether	ND		5.00	4.93		ug/L		98	69 - 120
Methylene Chloride	ND		5.00	4.86		ug/L		97	80 - 120
Styrene	ND		5.00	5.24		ug/L		105	80 - 120
Tetrachloroethene	5.5		5.00	10.8		ug/L		105	80 - 120
Toluene	ND		5.00	5.19		ug/L		104	80 - 120
trans-1,2-Dichloroethene	ND		5.00	4.82		ug/L		96	80 - 122
trans-1,3-Dichloropropene	ND		5.00	5.60		ug/L		112	61 - 129
Trichloroethene	1.2		5.00	6.08		ug/L		97	80 - 120
Vinyl chloride	ND		5.00	4.53		ug/L		90	60 - 125
Xylenes, Total	ND		15.0	15.7		ug/L		105	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*104*		*80 - 120*

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

Lab Sample ID: 410-99372-6 MSD
Matrix: Water
Analysis Batch: 303234

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	5.51		ug/L		110	71 - 134	6	30
1,1,1-Trichloroethane	0.26	J	5.00	5.46		ug/L		104	78 - 126	5	30
1,1,2,2-Tetrachloroethane	ND		5.00	5.57		ug/L		111	75 - 123	6	30
1,1,2-Trichloroethane	ND		5.00	5.70		ug/L		114	80 - 120	8	30
1,1-Dichloroethane	0.11	J	5.00	5.31		ug/L		104	74 - 120	7	30
1,1-Dichloroethene	0.12	J	5.00	5.46		ug/L		107	80 - 131	7	30
1,2-Dibromoethane (EDB)	ND		5.00	5.83		ug/L		116	80 - 120	5	30
1,2-Dichloroethane	ND		5.00	5.69		ug/L		114	69 - 122	5	30
1,2-Dichloropropane	ND		5.00	5.20		ug/L		104	80 - 120	5	30
2-Butanone (MEK)	ND		62.6	61.3		ug/L		98	59 - 141	8	30
2-Hexanone	ND		62.6	61.2		ug/L		98	52 - 140	6	30
4-Methyl-2-pentanone (MIBK)	ND		62.6	57.9		ug/L		93	55 - 140	6	30
Acetone	ND		62.6	55.4		ug/L		88	60 - 146	3	30
Benzene	ND		5.00	5.17		ug/L		103	80 - 120	6	30
Bromochloromethane	ND		5.00	5.30		ug/L		106	80 - 120	7	30
Bromodichloromethane	ND		5.00	5.36		ug/L		107	73 - 124	5	30
Bromoform	ND		5.00	5.76		ug/L		115	49 - 144	6	30
Bromomethane	ND		5.00	4.92		ug/L		98	60 - 136	8	30
Carbon disulfide	ND		5.00	5.65		ug/L		113	67 - 130	6	30
Carbon tetrachloride	ND		5.00	5.40		ug/L		108	64 - 141	8	30
Chlorobenzene	ND		5.00	5.54		ug/L		111	80 - 120	5	30
Chloroethane	ND		5.00	5.05		ug/L		101	63 - 120	6	30
Chloroform	0.33	J	5.00	5.62		ug/L		106	80 - 120	6	30
Chloromethane	ND		5.00	5.04		ug/L		101	80 - 120	6	30
cis-1,2-Dichloroethene	1.3		5.00	6.56		ug/L		106	80 - 122	6	30
cis-1,3-Dichloropropene	ND		5.00	5.17		ug/L		103	67 - 121	5	30
Dibromochloromethane	ND		5.00	5.81		ug/L		116	64 - 138	5	30
Ethylbenzene	ND		5.00	5.51		ug/L		110	80 - 120	7	30
Methyl tert-butyl ether	ND		5.00	5.16		ug/L		103	69 - 120	5	30
Methylene Chloride	ND		5.00	5.12		ug/L		102	80 - 120	5	30
Styrene	ND		5.00	5.44		ug/L		109	80 - 120	4	30
Tetrachloroethene	5.5		5.00	11.4		ug/L		117	80 - 120	5	30
Toluene	ND		5.00	5.52		ug/L		110	80 - 120	6	30
trans-1,2-Dichloroethene	ND		5.00	5.16		ug/L		103	80 - 122	7	30
trans-1,3-Dichloropropene	ND		5.00	5.84		ug/L		117	61 - 129	4	30
Trichloroethene	1.2		5.00	6.47		ug/L		105	80 - 120	6	30
Vinyl chloride	ND		5.00	4.93		ug/L		99	60 - 125	9	30
Xylenes, Total	ND		15.0	16.6		ug/L		110	80 - 120	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*

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

Lab Sample ID: MB 410-304184/6
Matrix: Water
Analysis Batch: 304184

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			10/07/22 12:23	1
1,1,1-Trichloroethane	ND		0.50	0.080	ug/L			10/07/22 12:23	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/L			10/07/22 12:23	1
1,1,2-Trichloroethane	ND		0.50	0.080	ug/L			10/07/22 12:23	1
1,1-Dichloroethane	ND		0.50	0.10	ug/L			10/07/22 12:23	1
1,1-Dichloroethene	ND		0.50	0.10	ug/L			10/07/22 12:23	1
1,2-Dibromoethane (EDB)	ND		0.50	0.080	ug/L			10/07/22 12:23	1
1,2-Dichloroethane	ND		0.50	0.070	ug/L			10/07/22 12:23	1
1,2-Dichloropropane	ND		0.50	0.10	ug/L			10/07/22 12:23	1
2-Butanone (MEK)	ND		5.0	1.0	ug/L			10/07/22 12:23	1
2-Hexanone	ND		5.0	0.10	ug/L			10/07/22 12:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0	ug/L			10/07/22 12:23	1
Acetone	ND		5.0	1.0	ug/L			10/07/22 12:23	1
Benzene	ND		0.50	0.10	ug/L			10/07/22 12:23	1
Bromochloromethane	ND		0.50	0.080	ug/L			10/07/22 12:23	1
Bromodichloromethane	ND		0.50	0.080	ug/L			10/07/22 12:23	1
Bromoform	ND		1.0	0.30	ug/L			10/07/22 12:23	1
Bromomethane	ND		0.50	0.10	ug/L			10/07/22 12:23	1
Carbon disulfide	0.550	J B	1.0	0.10	ug/L			10/07/22 12:23	1
Carbon tetrachloride	ND		0.50	0.10	ug/L			10/07/22 12:23	1
Chlorobenzene	ND		0.50	0.070	ug/L			10/07/22 12:23	1
Chloroethane	ND		0.50	0.10	ug/L			10/07/22 12:23	1
Chloroform	ND		0.50	0.090	ug/L			10/07/22 12:23	1
Chloromethane	ND		0.50	0.10	ug/L			10/07/22 12:23	1
cis-1,2-Dichloroethene	ND		0.50	0.080	ug/L			10/07/22 12:23	1
cis-1,3-Dichloropropene	ND		0.50	0.10	ug/L			10/07/22 12:23	1
Dibromochloromethane	ND		0.50	0.080	ug/L			10/07/22 12:23	1
Ethylbenzene	ND		0.50	0.080	ug/L			10/07/22 12:23	1
Methyl tert-butyl ether	ND		0.50	0.080	ug/L			10/07/22 12:23	1
Methylene Chloride	ND		0.50	0.10	ug/L			10/07/22 12:23	1
Styrene	ND		0.50	0.070	ug/L			10/07/22 12:23	1
Tetrachloroethene	ND		0.50	0.20	ug/L			10/07/22 12:23	1
Toluene	ND		0.50	0.080	ug/L			10/07/22 12:23	1
trans-1,2-Dichloroethene	ND		0.50	0.10	ug/L			10/07/22 12:23	1
trans-1,3-Dichloropropene	ND		0.50	0.080	ug/L			10/07/22 12:23	1
Trichloroethene	ND		0.50	0.080	ug/L			10/07/22 12:23	1
Vinyl chloride	ND		0.50	0.10	ug/L			10/07/22 12:23	1
Xylenes, Total	ND		1.0	0.070	ug/L			10/07/22 12:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*10/07/22 12:23*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*10/07/22 12:23*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*10/07/22 12:23*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/07/22 12:23*	*1*

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

Lab Sample ID: LCS 410-304184/4
Matrix: Water
Analysis Batch: 304184

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	5.23		ug/L		105	71 - 134
1,1,1-Trichloroethane	5.00	4.96		ug/L		99	78 - 126
1,1,2,2-Tetrachloroethane	5.00	4.74		ug/L		95	75 - 123
1,1,2-Trichloroethane	5.00	5.06		ug/L		101	80 - 120
1,1-Dichloroethane	5.00	4.74		ug/L		95	74 - 120
1,1-Dichloroethene	5.00	5.38		ug/L		108	80 - 131
1,2-Dibromoethane (EDB)	5.00	5.27		ug/L		105	80 - 120
1,2-Dichloroethane	5.00	4.72		ug/L		94	69 - 122
1,2-Dichloropropane	5.00	4.89		ug/L		98	80 - 120
2-Butanone (MEK)	62.5	62.3		ug/L		100	59 - 141
2-Hexanone	62.5	65.5		ug/L		105	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	63.5		ug/L		102	55 - 140
Acetone	62.5	56.8		ug/L		91	60 - 146
Benzene	5.00	4.98		ug/L		100	80 - 120
Bromochloromethane	5.00	5.61		ug/L		112	80 - 120
Bromodichloromethane	5.00	5.19		ug/L		104	73 - 124
Bromoform	5.00	5.32		ug/L		106	49 - 144
Bromomethane	5.00	4.97		ug/L		99	60 - 136
Carbon disulfide	5.00	6.54	*+	ug/L		131	67 - 130
Carbon tetrachloride	5.00	5.24		ug/L		105	64 - 141
Chlorobenzene	5.00	4.88		ug/L		98	80 - 120
Chloroethane	5.00	4.63		ug/L		93	63 - 120
Chloroform	5.00	4.97		ug/L		99	80 - 120
Chloromethane	5.00	4.92		ug/L		98	56 - 124
cis-1,2-Dichloroethene	5.00	5.36		ug/L		107	80 - 122
cis-1,3-Dichloropropene	5.00	4.64		ug/L		93	67 - 121
Dibromochloromethane	5.00	5.09		ug/L		102	64 - 138
Ethylbenzene	5.00	4.78		ug/L		96	80 - 120
Methyl tert-butyl ether	5.00	5.03		ug/L		101	69 - 120
Methylene Chloride	5.00	5.06		ug/L		101	80 - 120
Styrene	5.00	4.81		ug/L		96	80 - 120
Tetrachloroethene	5.00	5.25		ug/L		105	80 - 120
Toluene	5.00	4.72		ug/L		94	80 - 120
trans-1,2-Dichloroethene	5.00	5.06		ug/L		101	80 - 122
trans-1,3-Dichloropropene	5.00	4.54		ug/L		91	61 - 129
Trichloroethene	5.00	5.14		ug/L		103	80 - 120
Vinyl chloride	5.00	4.78		ug/L		96	60 - 125
Xylenes, Total	15.0	14.6		ug/L		98	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*

QC Association Summary

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

Job ID: 410-99372-1

GC/MS VOA

Analysis Batch: 303234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-99372-1	HD-COD-SW-6-0/1-0	Total/NA	Water	8260D	
410-99372-2	HD-COD-SW-7-0/1-0	Total/NA	Water	8260D	
410-99372-3	HD-COD-SW-8-0/1-0	Total/NA	Water	8260D	
410-99372-4	HD-COD-SW-9-0/1-0	Total/NA	Water	8260D	
410-99372-5	HD-COD-SW-13-0/1-0	Total/NA	Water	8260D	
410-99372-6	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	
410-99372-7	HD-COD-SW-16-0/1-0	Total/NA	Water	8260D	
410-99372-8	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-99372-9	HD-COD-SW-26-0/1-0	Total/NA	Water	8260D	
410-99372-10	HD-COD-SW-27-0/1-0	Total/NA	Water	8260D	
410-99372-11	HD-COD-SW-28-0/1-0	Total/NA	Water	8260D	
410-99372-12	HD-COD-SW-29-0/1-0	Total/NA	Water	8260D	
410-99372-13	HD-COD-QC1-0/1-1	Total/NA	Water	8260D	
410-99372-13 - DL	HD-COD-QC1-0/1-1	Total/NA	Water	8260D	
410-99372-14	HD-COD-QC1-0/1-2	Total/NA	Water	8260D	
MB 410-303234/6	Method Blank	Total/NA	Water	8260D	
LCS 410-303234/4	Lab Control Sample	Total/NA	Water	8260D	
410-99372-6 MS	HD-COD-SW-15-0/1-0 MS	Total/NA	Water	8260D	
410-99372-6 MSD	HD-COD-SW-15-0/1-0 MSD	Total/NA	Water	8260D	

Analysis Batch: 304184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-99372-8 - DL	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
MB 410-304184/6	Method Blank	Total/NA	Water	8260D	
LCS 410-304184/4	Lab Control Sample	Total/NA	Water	8260D	

Client Sample ID: HD-COD-SW-6-0/1-0
Lab Sample ID: 410-99372-1
Date Collected: 09/23/22 10:10
Matrix: Water
Date Received: 09/26/22 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	303234	DVW2	ELLE	10/05/22 12:28

Client Sample ID: HD-COD-SW-7-0/1-0
Lab Sample ID: 410-99372-2
Date Collected: 09/23/22 10:55
Matrix: Water
Date Received: 09/26/22 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	303234	DVW2	ELLE	10/05/22 12:49

Client Sample ID: HD-COD-SW-8-0/1-0
Lab Sample ID: 410-99372-3
Date Collected: 09/23/22 09:00
Matrix: Water
Date Received: 09/26/22 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	303234	DVW2	ELLE	10/05/22 13:09

Client Sample ID: HD-COD-SW-9-0/1-0
Lab Sample ID: 410-99372-4
Date Collected: 09/23/22 12:20
Matrix: Water
Date Received: 09/26/22 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	303234	DVW2	ELLE	10/05/22 13:29

Client Sample ID: HD-COD-SW-13-0/1-0
Lab Sample ID: 410-99372-5
Date Collected: 09/23/22 09:15
Matrix: Water
Date Received: 09/26/22 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	303234	DVW2	ELLE	10/05/22 13:50

Client Sample ID: HD-COD-SW-15-0/1-0
Lab Sample ID: 410-99372-6
Date Collected: 09/23/22 11:25
Matrix: Water
Date Received: 09/26/22 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	303234	DVW2	ELLE	10/05/22 14:10

Client Sample ID: HD-COD-SW-16-0/1-0
Lab Sample ID: 410-99372-7
Date Collected: 09/23/22 09:35
Matrix: Water
Date Received: 09/26/22 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	303234	DVW2	ELLE	10/05/22 15:11

Client Sample ID: HD-COD-SW-17-0/1-0
Lab Sample ID: 410-99372-8
Date Collected: 09/23/22 09:55
Matrix: Water
Date Received: 09/26/22 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D	DL	10	304184	DVW2	ELLE	10/07/22 16:01
Total/NA	Analysis	8260D		1	303234	DVW2	ELLE	10/05/22 15:31

Client Sample ID: HD-COD-SW-26-0/1-0
Lab Sample ID: 410-99372-9
Date Collected: 09/23/22 10:35
Matrix: Water
Date Received: 09/26/22 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	303234	DVW2	ELLE	10/05/22 15:52

Client Sample ID: HD-COD-SW-27-0/1-0
Lab Sample ID: 410-99372-10
Date Collected: 09/23/22 11:15
Matrix: Water
Date Received: 09/26/22 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	303234	DVW2	ELLE	10/05/22 16:12

Client Sample ID: HD-COD-SW-28-0/1-0
Lab Sample ID: 410-99372-11
Date Collected: 09/23/22 12:35
Matrix: Water
Date Received: 09/26/22 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	303234	DVW2	ELLE	10/05/22 16:33

Client Sample ID: HD-COD-SW-29-0/1-0
Lab Sample ID: 410-99372-12
Date Collected: 09/23/22 08:45
Matrix: Water
Date Received: 09/26/22 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	303234	DVW2	ELLE	10/05/22 16:53

Client Sample ID: HD-COD-QC1-0/1-1
Lab Sample ID: 410-99372-13
Date Collected: 09/23/22 08:00
Matrix: Water
Date Received: 09/26/22 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	303234	DVW2	ELLE	10/05/22 17:13
Total/NA	Analysis	8260D	DL	10	303234	DVW2	ELLE	10/05/22 17:34

Client Sample ID: HD-COD-QC1-0/1-2
Lab Sample ID: 410-99372-14
Date Collected: 09/23/22 00:00
Matrix: Water
Date Received: 09/26/22 18:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	303234	DVW2	ELLE	10/05/22 11:07

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: 410-99372-1
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: 410-99372-1

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: 410-99372-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-99372-1	HD-COD-SW-6-0/1-0	Water	09/23/22 10:10	09/26/22 18:45
410-99372-2	HD-COD-SW-7-0/1-0	Water	09/23/22 10:55	09/26/22 18:45
410-99372-3	HD-COD-SW-8-0/1-0	Water	09/23/22 09:00	09/26/22 18:45
410-99372-4	HD-COD-SW-9-0/1-0	Water	09/23/22 12:20	09/26/22 18:45
410-99372-5	HD-COD-SW-13-0/1-0	Water	09/23/22 09:15	09/26/22 18:45
410-99372-6	HD-COD-SW-15-0/1-0	Water	09/23/22 11:25	09/26/22 18:45
410-99372-7	HD-COD-SW-16-0/1-0	Water	09/23/22 09:35	09/26/22 18:45
410-99372-8	HD-COD-SW-17-0/1-0	Water	09/23/22 09:55	09/26/22 18:45
410-99372-9	HD-COD-SW-26-0/1-0	Water	09/23/22 10:35	09/26/22 18:45
410-99372-10	HD-COD-SW-27-0/1-0	Water	09/23/22 11:15	09/26/22 18:45
410-99372-11	HD-COD-SW-28-0/1-0	Water	09/23/22 12:35	09/26/22 18:45
410-99372-12	HD-COD-SW-29-0/1-0	Water	09/23/22 08:45	09/26/22 18:45
410-99372-13	HD-COD-QC1-0/1-1	Water	09/23/22 08:00	09/26/22 18:45
410-99372-14	HD-COD-QC1-0/1-2	Water	09/23/22 00:00	09/26/22 18:45

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-99372-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 288300

Lab Sample ID: IC 410-288300/13 Client Sample ID:

Date Analyzed: 08/22/22 20:12 Lab File ID: CG22X12.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.04	Incomplete Integration	DVW2	08/23/22 09:23
Bromomethane	2.32	Incomplete Integration	DVW2	08/23/22 09:23
2-Chloro-1,3-butadiene	4.84	Incomplete Integration	DVW2	08/23/22 09:24
2,2-Dichloropropane	5.59	Incomplete Integration	DVW2	08/23/22 09:24
Propionitrile	5.69	Incomplete Integration	DVW2	08/23/22 09:24
Tetrahydrofuran	5.93	Incomplete Integration	DVW2	08/23/22 09:24
1,1-Dichloropropene	6.51	Incomplete Integration	DVW2	08/23/22 09:24
Isobutyl alcohol	6.73	Incomplete Integration	DVW2	08/23/22 09:24
t-Amyl methyl ether	6.98	Incomplete Integration	DVW2	08/23/22 09:24
2-Nitropropane	8.67	Incomplete Integration	DVW2	08/23/22 09:25

Lab Sample ID: IC 410-288300/14 Client Sample ID:

Date Analyzed: 08/22/22 20:34 Lab File ID: CG22X13.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol-d10 (IS)	3.74	Incomplete Integration	DVW2	08/23/22 09:26
2-Chloro-1,3-butadiene	4.83	Incomplete Integration	DVW2	08/23/22 09:26
1,4-Dioxane	8.13	Incomplete Integration	DVW2	08/23/22 09:27

Lab Sample ID: IC 410-288300/15 Client Sample ID:

Date Analyzed: 08/22/22 20:57 Lab File ID: CG22X14.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrahydrofuran	5.92	Incomplete Integration	DVW2	08/23/22 09:28
1,4-Dioxane	8.15	Incomplete Integration	DVW2	08/23/22 09:28

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-99372-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 288300

Lab Sample ID: IC 410-288300/16 Client Sample ID:

Date Analyzed: 08/22/22 21:19 Lab File ID: CG22X15.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.54	Incomplete Integration	DVW2	08/23/22 09:29

Lab Sample ID: IC 410-288300/17 Client Sample ID:

Date Analyzed: 08/22/22 21:41 Lab File ID: CG22X16.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.13	Incomplete Integration	DVW2	08/23/22 09:31

Lab Sample ID: ICIS 410-288300/18 Client Sample ID:

Date Analyzed: 08/22/22 22:04 Lab File ID: CG22X17.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol-d10 (IS)	3.75	Incomplete Integration	DVW2	08/23/22 09:19
t-Butyl alcohol	3.85	Incomplete Integration	DVW2	08/23/22 09:19

Lab Sample ID: IC 410-288300/19 Client Sample ID:

Date Analyzed: 08/22/22 22:26 Lab File ID: CG22X18.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.13	Incomplete Integration	DVW2	08/23/22 09:32

Lab Sample ID: ICV 410-288300/21 Client Sample ID:

Date Analyzed: 08/22/22 23:10 Lab File ID: CG22X20.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.12	Incomplete Integration	DVW2	08/23/22 09:33

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-99372-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 304184

Lab Sample ID: MB 410-304184/6 Client Sample ID:

Date Analyzed: 10/07/22 12:23 Lab File ID: CC07X05.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.38	Incomplete Integration	DVW2	10/07/22 12:55
1,1-Dichloroethene		Invalid Compound ID	DVW2	10/07/22 12:55

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-99372-1

SDG No.:

Instrument ID: 19094 Analysis Batch Number: 274149

Lab Sample ID: IC 410-274149/12 Client Sample ID:

Date Analyzed: 07/11/22 16:51 Lab File ID: HL11X12.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.90	Baseline	UKAD	07/12/22 09:48
1,4-Dioxane	8.54	Split Peak	UKAD	07/12/22 09:48

Lab Sample ID: ICIS 410-274149/13 Client Sample ID:

Date Analyzed: 07/11/22 17:11 Lab File ID: HL11X13.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.88	Baseline	UKAD	07/12/22 09:49

Lab Sample ID: IC 410-274149/14 Client Sample ID:

Date Analyzed: 07/11/22 17:31 Lab File ID: HL11X14.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.54	Split Peak	UKAD	07/12/22 09:51

Lab Sample ID: IC 410-274149/15 Client Sample ID:

Date Analyzed: 07/11/22 17:51 Lab File ID: HL11X15.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.91	Baseline	UKAD	07/12/22 09:51

Lab Sample ID: IC 410-274149/16 Client Sample ID:

Date Analyzed: 07/11/22 18:11 Lab File ID: HL11X16.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.89	Baseline	UKAD	07/12/22 09:53
Acrylonitrile	4.47	Incomplete Integration	UKAD	07/12/22 10:11

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-99372-1

SDG No.:

Instrument ID: 19094 Analysis Batch Number: 274149

Lab Sample ID: IC 410-274149/17 Client Sample ID:

Date Analyzed: 07/11/22 18:32 Lab File ID: HL11X17.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.95	Baseline	UKAD	07/12/22 09:54
Acrylonitrile	4.48	Incomplete Integration	UKAD	07/12/22 10:11
1,4-Dioxane	8.56	Incomplete Integration	UKAD	07/12/22 10:13

Lab Sample ID: IC 410-274149/18 Client Sample ID:

Date Analyzed: 07/11/22 18:52 Lab File ID: Copy_HL11X18.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.95	Split Peak	UKAD	07/12/22 09:57
Acrylonitrile	4.48	Incomplete Integration	UKAD	07/12/22 10:11
Propionitrile	6.09	Incomplete Integration	UKAD	07/12/22 09:57
1,4-Dioxane	8.56	Incomplete Integration	UKAD	07/12/22 09:58
Ethyl methacrylate	10.07	Incomplete Integration	UKAD	07/12/22 09:58

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-99372-1

SDG No.:

Instrument ID: 19094 Analysis Batch Number: 275687

Lab Sample ID: ICV 410-275687/4 Client Sample ID:

Date Analyzed: 07/14/22 20:04 Lab File ID: copy_HL14X03.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.93	Incomplete Integration	K4WN	07/14/22 20:43
1,3-Butadiene	2.24	Incomplete Integration	K4WN	07/14/22 20:44
Vinyl chloride	2.24	Incomplete Integration	K4WN	07/14/22 20:44
Methyl acetate	3.90	Incomplete Integration	K4WN	07/14/22 20:44
t-Butyl alcohol	4.25	Incomplete Integration	K4WN	07/14/22 20:45

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-99372-1

SDG No.:

Instrument ID: 19094 Analysis Batch Number: 303234

Lab Sample ID: MB 410-303234/6 Client Sample ID:

Date Analyzed: 10/05/22 10:47 Lab File ID: HO05X05.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.81	Incomplete Integration	DVW2	10/05/22 11:34

Lab Sample ID: 410-99372-14 Client Sample ID: HD-COD-QC1-0/1-2

Date Analyzed: 10/05/22 11:07 Lab File ID: HO05X06.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.82	Incomplete Integration	pongsawatp	10/06/22 14:00

Lab Sample ID: 410-99372-1 Client Sample ID: HD-COD-SW-6-0/1-0

Date Analyzed: 10/05/22 12:28 Lab File ID: HO05X10.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	8.15	Incomplete Integration	pongsawatp	10/06/22 14:03

Lab Sample ID: 410-99372-2 Client Sample ID: HD-COD-SW-7-0/1-0

Date Analyzed: 10/05/22 12:49 Lab File ID: HO05X11.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.82	Incomplete Integration	pongsawatp	10/06/22 14:03
Trichloroethene	8.14	Incomplete Integration	pongsawatp	10/06/22 14:04

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-99372-1

SDG No.:

Instrument ID: 19094 Analysis Batch Number: 303234

Lab Sample ID: 410-99372-3 Client Sample ID: HD-COD-SW-8-0/1-0

Date Analyzed: 10/05/22 13:09 Lab File ID: HO05X12.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.82	Incomplete Integration	pongsawatp	10/06/22 14:04

Lab Sample ID: 410-99372-5 Client Sample ID: HD-COD-SW-13-0/1-0

Date Analyzed: 10/05/22 13:50 Lab File ID: HO05X14.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.81	Incomplete Integration	pongsawatp	10/06/22 14:05
1,1,1-Trichloroethane	6.79	Incomplete Integration	pongsawatp	10/06/22 14:06
Trichloroethene	8.13	Incomplete Integration	pongsawatp	10/06/22 14:06

Lab Sample ID: 410-99372-6 Client Sample ID: HD-COD-SW-15-0/1-0

Date Analyzed: 10/05/22 14:10 Lab File ID: HO05X15.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.82	Incomplete Integration	pongsawatp	10/06/22 14:06

Lab Sample ID: 410-99372-7 Client Sample ID: HD-COD-SW-16-0/1-0

Date Analyzed: 10/05/22 15:11 Lab File ID: HO05X18.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.83	Incomplete Integration	pongsawatp	10/06/22 14:09
Trichloroethene	8.13	Incomplete Integration	pongsawatp	10/06/22 14:09

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-99372-1

SDG No.:

Instrument ID: 19094 Analysis Batch Number: 303234

Lab Sample ID: 410-99372-8 Client Sample ID: HD-COD-SW-17-0/1-0

Date Analyzed: 10/05/22 15:31 Lab File ID: HO05X19.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.81	Incomplete Integration	pongsawatp	10/06/22 14:10

Lab Sample ID: 410-99372-9 Client Sample ID: HD-COD-SW-26-0/1-0

Date Analyzed: 10/05/22 15:52 Lab File ID: HO05X20.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	8.13	Incomplete Integration	pongsawatp	10/06/22 14:11
1,1,2-Trichloroethane		Invalid Compound ID	pongsawatp	10/06/22 14:11

Lab Sample ID: 410-99372-10 Client Sample ID: HD-COD-SW-27-0/1-0

Date Analyzed: 10/05/22 16:12 Lab File ID: HO05X21.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	8.13	Incomplete Integration	pongsawatp	10/06/22 14:12

Lab Sample ID: 410-99372-11 Client Sample ID: HD-COD-SW-28-0/1-0

Date Analyzed: 10/05/22 16:33 Lab File ID: HO05X22.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.82	Incomplete Integration	pongsawatp	10/06/22 14:13

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-99372-1

SDG No.:

Instrument ID: 19094 Analysis Batch Number: 303234

Lab Sample ID: 410-99372-12 Client Sample ID: HD-COD-SW-29-0/1-0

Date Analyzed: 10/05/22 16:53 Lab File ID: HO05X23.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.82	Incomplete Integration	pongsawatp	10/06/22 14:13

Lab Sample ID: 410-99372-13 Client Sample ID: HD-COD-QC1-0/1-1

Date Analyzed: 10/05/22 17:13 Lab File ID: HO05X24.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.82	Incomplete Integration	pongsawatp	10/06/22 14:14
Acetone		Invalid Compound ID	pongsawatp	10/06/22 14:14

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_HP25_ISSS_00057	02/04/23	08/04/22	Methanol, Lot EB679	10 mL	MSV_Cus826_IS_00478	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_00478	04/30/25		Restek, Lot A0184225		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_HP25_ISSS_00057	02/04/23	08/04/22	Methanol, Lot EB679	10 mL	MSV_8260_SS_00721	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_00721	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_HP25_ISSS_00058	02/22/23	08/22/22	Methanol, Lot EB679	10 mL	MSV_8260_SS_00734	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_00483	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_00734	03/31/25		Restek, Lot A0183565		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.MSV_Cus826_IS_00483	04/30/25		Restek, Lot A0184225		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_HP25_ISSS_00059	03/15/23	09/27/22	Methanol, Lot EB679	10 mL	MSV_Cus826_IS_00493	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_00493	03/15/23		Restek, Lot A0184225		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_HP25_ISSS_00059	03/15/23	09/27/22	Methanol, Lot EB679	10 mL	MSV_8260_SS_00754	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_00754	04/30/27		Restek, Lot A0184230		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene-d8 (Surr)	2500 ug/mL
MSV_LCS_VOC#1_00063	08/09/22	07/10/22	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00076	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_00073	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00075	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_00076	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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
.MSV_M_MIX2SEC_00073	04/30/24		Restek, Lot A0171837		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00075	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_LCS_VOC#1_00069	09/20/22	08/21/22	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00083	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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSV_M_MIX2SEC_00082	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00082	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_00083	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_00082	04/30/24		Restek, Lot A0171837		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00082	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_LCS_VOC#1_00076	11/01/22	10/02/22	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00092	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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	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_00090	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00089	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_00092	04/30/25		Restek, Lot A0184354		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
.MSV_M_MIX2SEC_00090	04/30/25		Restek, Lot A0184412		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00089	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_00049	07/23/22	07/11/22	Methanol, Lot EB679	1 mL	MSV_CCV_VOC#1_00078	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,4-Dioxane	2500 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							2-Nitropropane	250 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Acrylonitrile	125 ug/mL
							Benzyl chloride	50 ug/mL
							Carbon disulfide	50 ug/mL
							Cyclohexane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropyl ether	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl acetate	50 ug/mL
							Methyl methacrylate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							n-Butanol	4375 ug/mL
							n-Heptane	50 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
							Tetrahydrofuran	250 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_CCV_VOC#3_00078	200 uL	Acrolein	2500 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00148	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_00078	08/09/22	07/10/22	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00076	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00076	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_00076	08/09/22		Restek, Lot A0171634		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1

SDG No.:

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00076	08/09/22	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
							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_00078	07/23/22	07/10/22	Methanol, Lot EB679	5 mL	MSV_CCV_ACR_00004	0.5 mL	Acrolein	12500 ug/mL
					MSV_V_Ketones_00074	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_00004	07/23/22	05/24/22	Methanol, Lot EB679	10 mL	MSV_VACR_STK_00026	9.17 mL	Acrolein	125000 ug/mL
...MSV_VACR_STK_00026	07/23/22	05/24/22	Methanol, Lot EB679	10 mL	MSV_ACROLEIN_00019	1.4626 g	Acrolein	136314 ug/mL
....MSV_ACROLEIN_00019	02/28/23	Chem Service, Lot 12926800			(Purchased Reagent)		Acrolein	0.932 g/g
..MSV_V_Ketones_00074	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_00148	08/09/22	07/10/22	Methanol, Lot EB679	5 mL	MSV_V#2B_00277	1 mL	1,4-Dioxane	12500 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00277	04/30/24		Restek, Lot A0184378		(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Methacrylonitrile	12500 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_LL_#1_826_00053	09/11/22	08/22/22	Methanol, Lot EB679	1 mL	MSV_CCV_VOC#1_00084	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrahydrofuran	250 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_CCV_VOC#3_00085	200 uL	Acrolein	2499.94 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_00154	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_00084	09/20/22	08/21/22	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00083	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00082	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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_MegaMIX#1_00083	09/20/22		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
							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

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00082	09/20/22	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
							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_00085	09/11/22	08/21/22	Methanol, Lot EB679	5 mL	MSV_CCV_ACR_00005	0.5 mL	Acrolein	12499.7 ug/mL
					MSV_V_Ketones_00080	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_00005	09/11/22	07/13/22	Methanol, Lot EB679	10 mL	MSV_VACR_STK_00027	9.205 mL	Acrolein	124997 ug/mL
...MSV_VACR_STK_00027	09/11/22	07/13/22	Methanol, Lot EB679	10 mL	MSV_ACROLEIN_00020	1.457 g	Acrolein	135792 ug/mL
....MSV_ACROLEIN_00020	02/28/23	Chem Service, Lot 12926800			(Purchased Reagent)		Acrolein	0.932 g/g
..MSV_V_Ketones_00080	07/31/24	Restek, Lot A0174287			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.MSV_V_VOA2_00154	09/20/22	08/21/22	Methanol, Lot EB679	5 mL	MSV_V#2B_00283	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_00283	04/30/24	Restek, Lot A0184378			(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Methacrylonitrile	12500 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_LL_#1_826_00054	10/11/22	09/12/22	Methanol, Lot EB679	1 mL	MSV_CCV_VOC#1_00087	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_00088	200 uL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
.MSV_CCV_VOC#1_00087	10/11/22	09/11/22	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00086	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							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_00085	1 mL	Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
..MSV_MegaMIX#1_00086	10/11/22		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

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00085	10/11/22		Restek, Lot A0173454		(Purchased Reagent)		Carbon disulfide	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
.MSV_CCV_VOC#3_00088	10/11/22	09/11/22	Methanol, Lot EB679	5 mL	MSV_V_Ketones_00083	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_00083	07/31/24		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_LL_#1_826_00055	10/25/22	09/27/22	Methanol, Lot EB679	1 mL	MSV_CCV_VOC#1_00090	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

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
					MSV_CCV_VOC#3_00090	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_00090	10/26/22	09/26/22	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00090	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							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_00087	1 mL	Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
..MSV_MegaMIX#1_00090	10/26/22		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

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00087	10/26/22		Restek, Lot A0173454		(Purchased Reagent)		Carbon disulfide	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
.MSV_CCV_VOC#3_00090	10/25/22	09/25/22	Methanol, Lot EB679	5 mL	MSV_V_Ketones_00085	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_00085	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_LL_#2_826_00053	08/09/22	07/11/22	Methanol, Lot EB679	1 mL	MSV_CCV_EE_00003	50 uL	Ethyl ether	50.0143 ug/mL
					MSV_V_PentaCL_00019	10 uL	Pentachloroethane	50 ug/mL
.MSV_CCV_EE_00003	11/20/22	05/20/22	Methanol, Lot EB679	100 mL	MSV_EE_MISCSK_00010	1.73 mL	Ethyl ether	1000.29 ug/mL
..MSV_EE_MISCSK_00010	11/20/22	05/20/22	Methanol, Lot EB679	10 mL	MSV_EE_Neat_00007	0.5782 g	Ethyl ether	57820 ug/mL
...MSV_EE_Neat_00007	12/31/25		Chem Service, Lot 12123300		(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_PentaCL_00019	08/09/22		Restek, Lot A0171341		(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_LL_#2_826_00057	09/07/22	08/22/22	Methanol, Lot EB679	1 mL	MSV_CCV_EE_00003	50 uL	Ethyl ether	50.0143 ug/mL
					MSV_V_PentaCL_00020	10 uL	Pentachloroethane	50 ug/mL
.MSV_CCV_EE_00003	11/20/22	05/20/22	Methanol, Lot EB679	100 mL	MSV_EE_MISCSK_00010	1.73 mL	Ethyl ether	1000.29 ug/mL
..MSV_EE_MISCSK_00010	11/20/22	05/20/22	Methanol, Lot EB679	10 mL	MSV_EE_Neat_00007	0.5782 g	Ethyl ether	57820 ug/mL
...MSV_EE_Neat_00007	12/31/25		Chem Service, Lot 12123300		(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_PentaCL_00020	09/07/22		Restek, Lot A0171341		(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_LL_GAS826_00101	07/18/22	07/11/22	Methanol, Lot EB679	1 mL	MSV_CCV_GASES_00221	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

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV_CCV_GASES_00221	07/18/22		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_00109	08/29/22	08/22/22	Methanol, Lot EB679	1 mL	MSV_CCV_GASES_00256	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_00256	08/29/22		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_00115	10/11/22	10/04/22	Methanol, Lot EB679	1 mL	MSV_CCV_GASES_00332	25 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00332	10/11/22		Restek, Lot A0184815		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LLcentISS_00005	11/30/22	05/30/22	Methanol, Lot EB679	50 mL	MSV_8260_SS_00668	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_00451	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_00668	11/30/22		Restek, Lot A0183565		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.MSV_Cus826_IS_00451	11/30/22		Restek, Lot A0179696		(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_00089	07/17/22	07/11/22	Methanol, Lot EB679	1 mL	MSV_QC_2K_GAS_00096	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00096	07/17/22		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_00096	08/28/22	08/22/22	Methanol, Lot EB679	1 mL	MSV_QC_2K_GAS_00104	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00104	08/28/22		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_00103	10/09/22	10/03/22	Methanol, Lot EB679	1 mL	MSV_QC_2K_GAS_00111	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00111	10/09/22		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_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_8260_SS_00721

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.:** A0183565

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 : March 31, 2025 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 012021) **Purity** 99%	2,500.5 µg/mL	+/- 14.5381 µg/mL +/- 140.2006 µg/mL +/- 143.4811 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot PR-32845) **Purity** 99%	2,500.5 µg/mL	+/- 14.5381 µg/mL +/- 140.2006 µg/mL +/- 143.4811 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot PR-31958) **Purity** 99%	2,500.5 µg/mL	+/- 14.5381 µg/mL +/- 140.2006 µg/mL +/- 143.4811 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 20401KO) **Purity** 99%	2,502.0 µg/mL	+/- 14.5468 µg/mL +/- 140.2847 µg/mL +/- 143.5671 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)

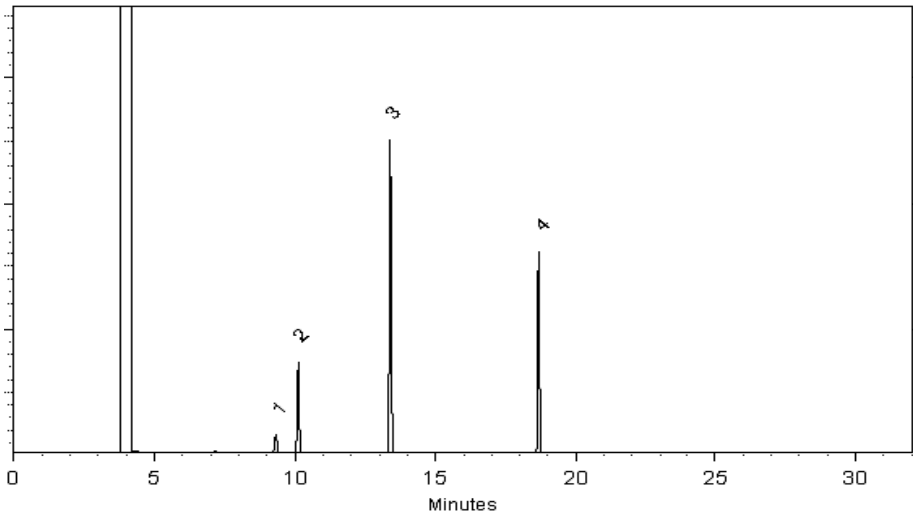
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Russ Bookhamer - Operations Technician I

Date Mixed: 31-Mar-2022 **Balance:** 1127510105

Fang-Yun Lo - QC Analyst

Date Passed: 04-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_8260_SS_00734

110 Benner Circle
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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.:** A0183565

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 : March 31, 2025 **Storage:** 0°C or colder

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane	2,500.5 µg/mL	+/- 14.5381 µg/mL	Gravimetric
	CAS # 1868-53-7 (Lot 012021)		+/- 140.2006 µg/mL	Unstressed
	Purity 99%		+/- 143.4811 µg/mL	Stressed
2	1,2-Dichloroethane-d4	2,500.5 µg/mL	+/- 14.5381 µg/mL	Gravimetric
	CAS # 17060-07-0 (Lot PR-32845)		+/- 140.2006 µg/mL	Unstressed
	Purity 99%		+/- 143.4811 µg/mL	Stressed
3	Toluene-d8	2,500.5 µg/mL	+/- 14.5381 µg/mL	Gravimetric
	CAS # 2037-26-5 (Lot PR-31958)		+/- 140.2006 µg/mL	Unstressed
	Purity 99%		+/- 143.4811 µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)	2,502.0 µg/mL	+/- 14.5468 µg/mL	Gravimetric
	CAS # 460-00-4 (Lot 20401KO)		+/- 140.2847 µg/mL	Unstressed
	Purity 99%		+/- 143.5671 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)

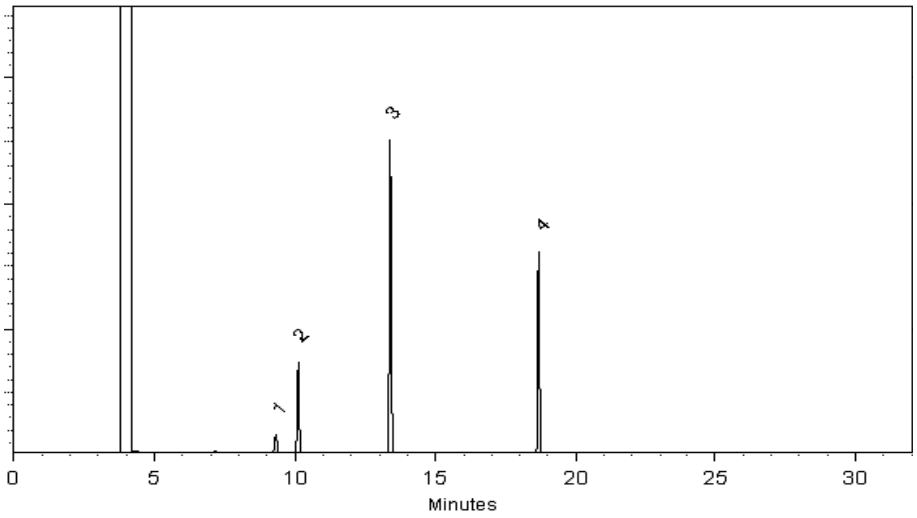
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Russ Bookhamer - Operations Technician I

Date Mixed: 31-Mar-2022 **Balance:** 1127510105

Fang-Yun Lo - QC Analyst

Date Passed: 04-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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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_00019

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

CERTIFICATE OF ANALYSIS

Acrolein

CATALOG NUMBER	RPN-11030-1G
LOT NUMBER	12926800
DATE CERTIFIED	02/03/22
EXPIRATION DATE	02/28/23
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
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
% PURITY (GC/TCD)	93.2
% WATER (KARL FISCHER)	2.2

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

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

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

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

CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2022 DATA\0222\SIG2022990.D

Sample name: Acrolein

Instrument: GC 1
Injection date: 2/3/2022 2:54:32 PM
Acq. method: GASBOMB_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%
2.600	BB	0.0362	14.5715	6.2387	4.5336
2.902	BB	0.0314	7.2404	3.5582	2.2527
4.046	BB	0.0349	299.5987	134.6697	93.2137
		Sum	321.4106		

Reagent

MSV_ACROLEIN_00020

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

CERTIFICATE OF ANALYSIS

Acrolein

CATALOG NUMBER	RPN-11030-1G
LOT NUMBER	12926800
DATE CERTIFIED	02/03/22
EXPIRATION DATE	02/28/23
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
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
% PURITY (GC/TCD)	93.2
% WATER (KARL FISCHER)	2.2

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

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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
CSM/TC

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info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2022 DATA\0222\SIG2022990.D

Sample name: Acrolein

Instrument: GC 1
Injection date: 2/3/2022 2:54:32 PM
Acq. method: GASBOMB_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%
2.600	BB	0.0362	14.5715	6.2387	4.5336
2.902	BB	0.0314	7.2404	3.5582	2.2527
4.046	BB	0.0349	299.5987	134.6697	93.2137
		Sum	321.4106		

Reagent

MSV_CCV_GASES_00221

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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)

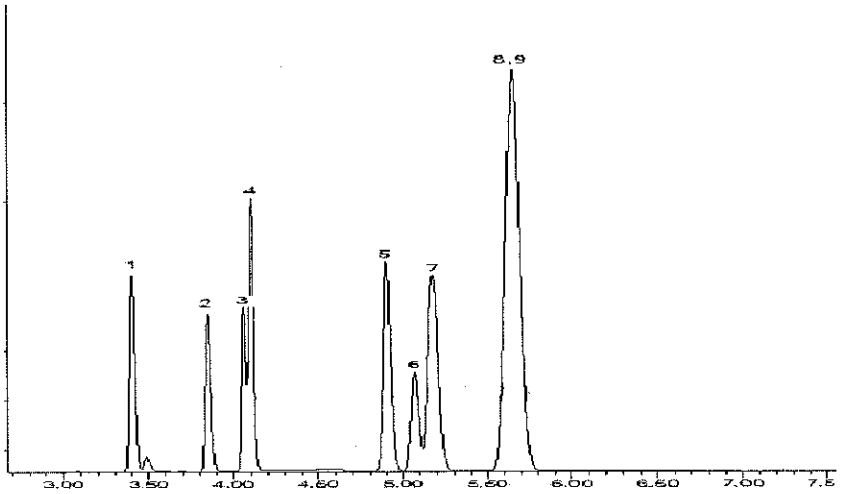
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.
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- 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.
- 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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577488 **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)

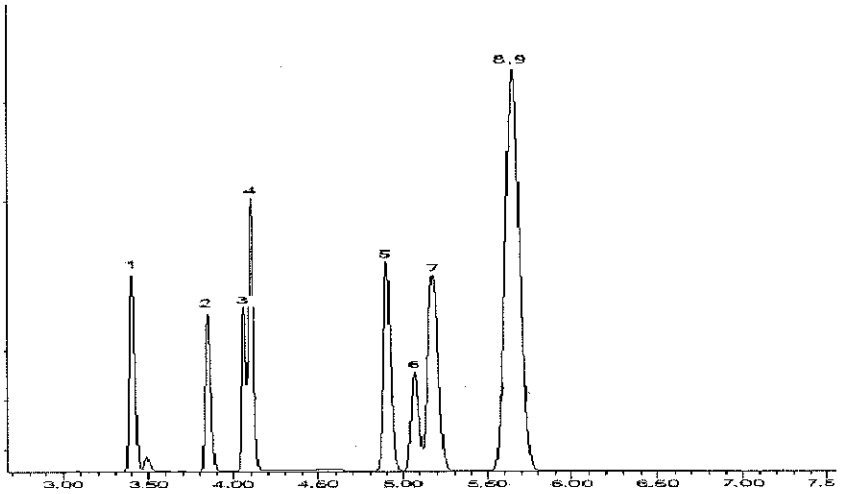
Carrier Gas:
helium-constant flow 2.0 mL/min.

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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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.:** A0179696

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 : December 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	2-Methyl-2-propanol-d10	12,510.0 µg/mL	+/- 73.4157 µg/mL	Gravimetric
	CAS # 53001-22-2 (Lot PR-29961)		+/- 268.0265 µg/mL	Unstressed
	Purity 99%		+/- 275.8078 µg/mL	Stressed
2	Fluorobenzene	2,502.0 µg/mL	+/- 14.8611 µg/mL	Gravimetric
	CAS # 462-06-6 (Lot BCBZ5549)		+/- 53.6543 µg/mL	Unstressed
	Purity 99%		+/- 55.2092 µg/mL	Stressed
3	Chlorobenzene-d5	2,512.0 µg/mL	+/- 14.9205 µg/mL	Gravimetric
	CAS # 3114-55-4 (Lot PR-29571)		+/- 53.8688 µg/mL	Unstressed
	Purity 99%		+/- 55.4299 µg/mL	Stressed
4	1,4-Dichlorobenzene-d4	2,512.0 µg/mL	+/- 14.9205 µg/mL	Gravimetric
	CAS # 3855-82-1 (Lot PR-30447)		+/- 53.8688 µg/mL	Unstressed
	Purity 99%		+/- 55.4299 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)

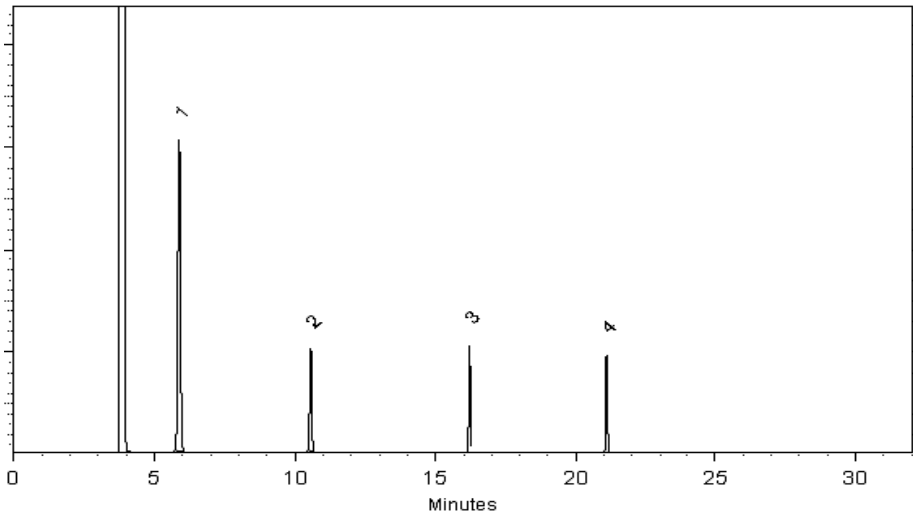
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Russ Bookhamer - Operations Technician I

Date Mixed: 17-Dec-2021 **Balance:** B442140311

Clara Windle - Operations Technician I

Date Passed: 28-Dec-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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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. : 558267 **Lot No.:** A0184225

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

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Methyl-2-propanol-d10	12,506.0 µg/mL	+/- 73.2254 µg/mL	Gravimetric
	CAS # 53001-22-2 (Lot PR-29961)		+/- 267.8951 µg/mL	Unstressed
	Purity 99%		+/- 275.6752 µg/mL	Stressed
2	Fluorobenzene	2,521.5 µg/mL	+/- 14.7976 µg/mL	Gravimetric
	CAS # 462-06-6 (Lot BCBZ5549)		+/- 54.0231 µg/mL	Unstressed
	Purity 99%		+/- 55.5915 µg/mL	Stressed
3	Chlorobenzene-d5	2,521.0 µg/mL	+/- 14.7946 µg/mL	Gravimetric
	CAS # 3114-55-4 (Lot PR-29571)		+/- 54.0124 µg/mL	Unstressed
	Purity 99%		+/- 55.5805 µg/mL	Stressed
4	1,4-Dichlorobenzene-d4	2,522.5 µg/mL	+/- 14.8034 µg/mL	Gravimetric
	CAS # 3855-82-1 (Lot PR-30447)		+/- 54.0445 µg/mL	Unstressed
	Purity 99%		+/- 55.6135 µg/mL	Stressed

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

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

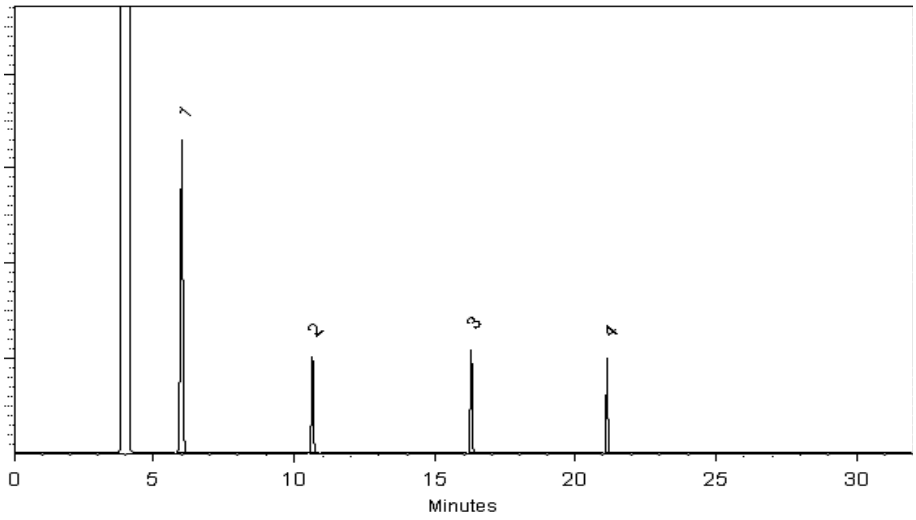
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Nick Yaw - Operations Tech I

Date Mixed: 18-Apr-2022 **Balance:** 1127510105

Christie Mills - Operations Technician II

Date Passed: 21-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_EE_Neat_00007

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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

MSV_M_MIX1SEC_00076

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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. : 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)

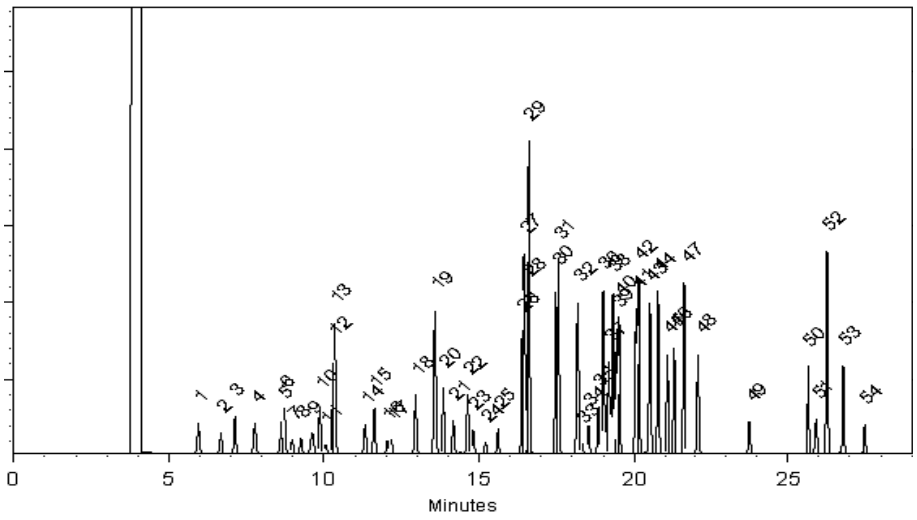
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_00083

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)

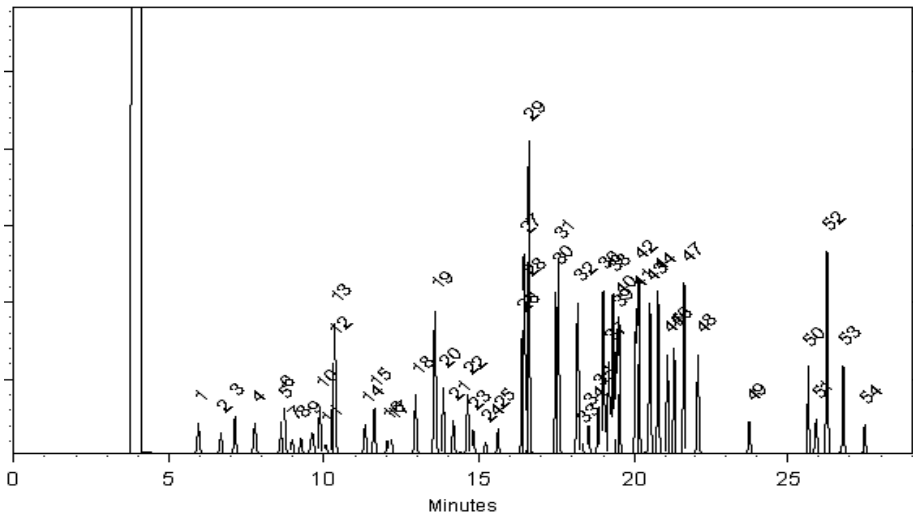
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_00092

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom VOC MegaMix®.SEC #1 Standard

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

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

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

Ship: Ambient

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

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

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

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

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

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

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

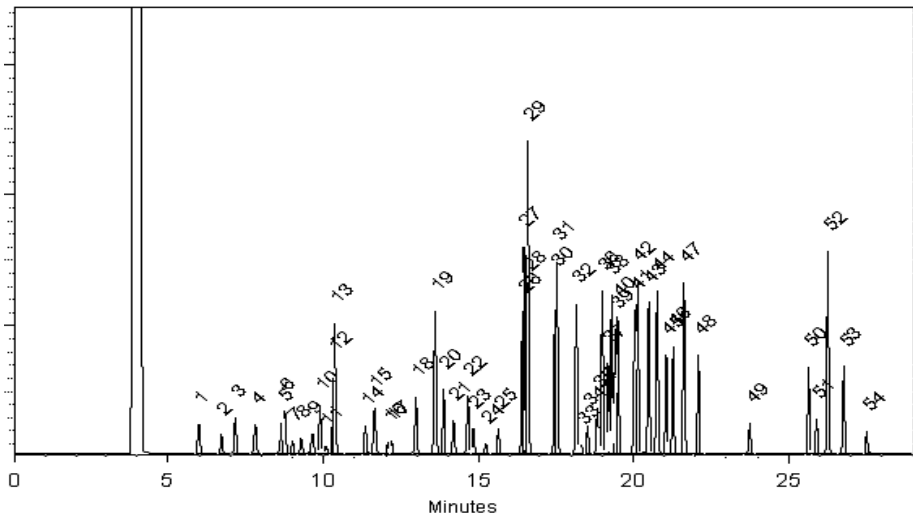
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Katelyn McGinni - Operations Tech I

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

Marlina Cowan - Operations Tech I

Date Passed: 27-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX2SEC_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. : 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)

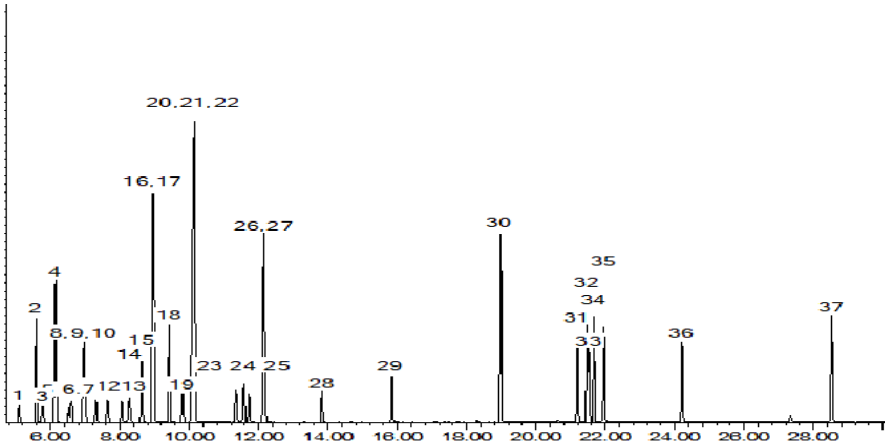
Carrier Gas:
helium-constant pressure 30 psi

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_00082

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)

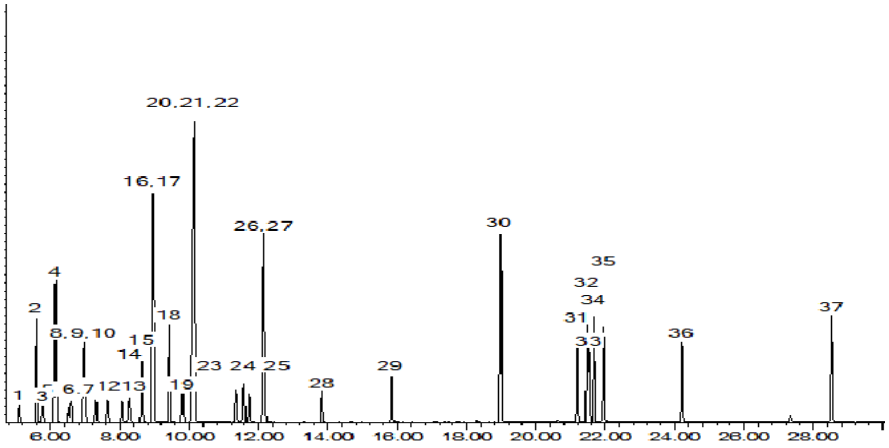
Carrier Gas:
helium-constant pressure 30 psi

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_00090

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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

Description : Custom VOC MegaMix®.SEC #2 Standard

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

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

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

Ship: Ambient

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

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

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

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

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

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

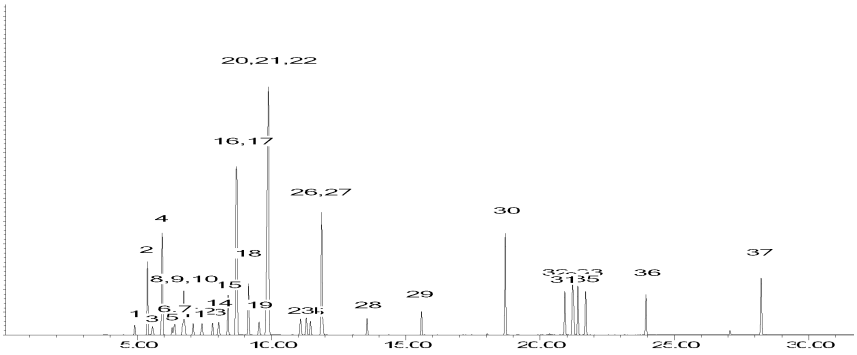
Carrier Gas:
helium-constant pressure 30 psi

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Lane Kibe - Mix Technician

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

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 27-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMIX#1_00076

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)

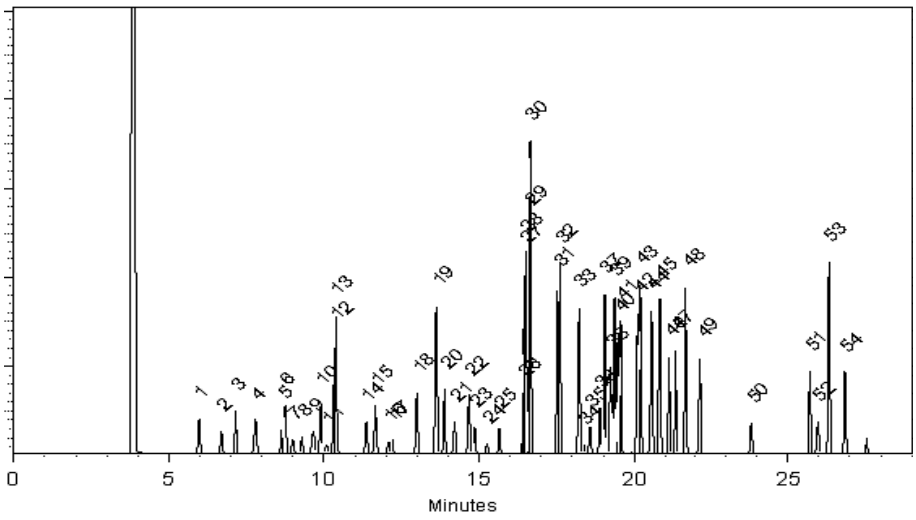
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_00083

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

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	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)

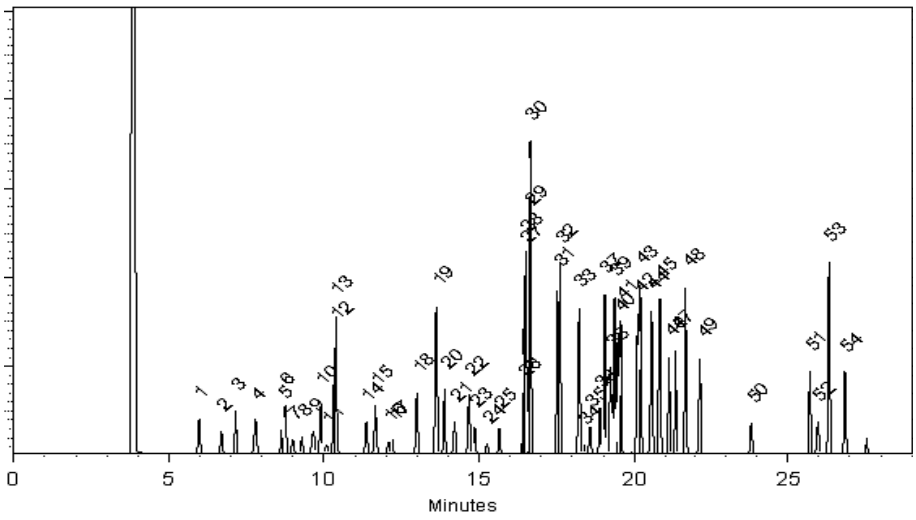
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_00086

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

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	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)

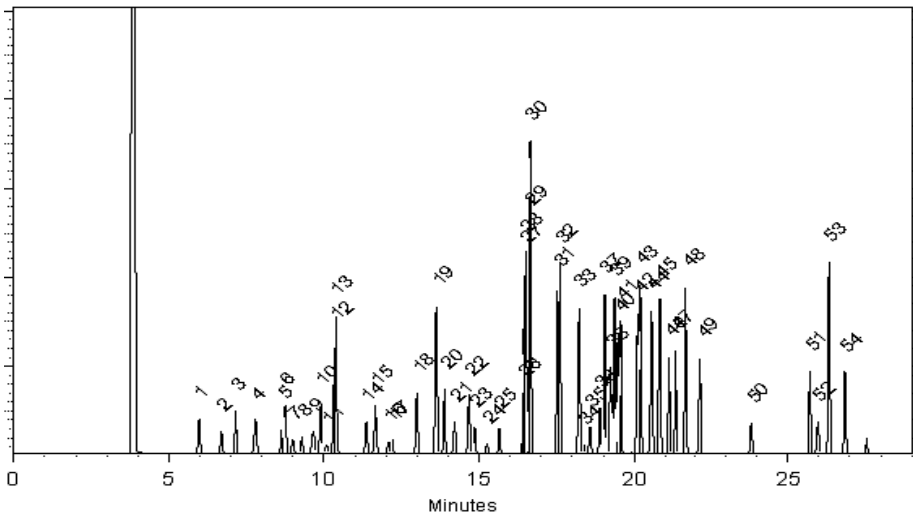
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_00090

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)

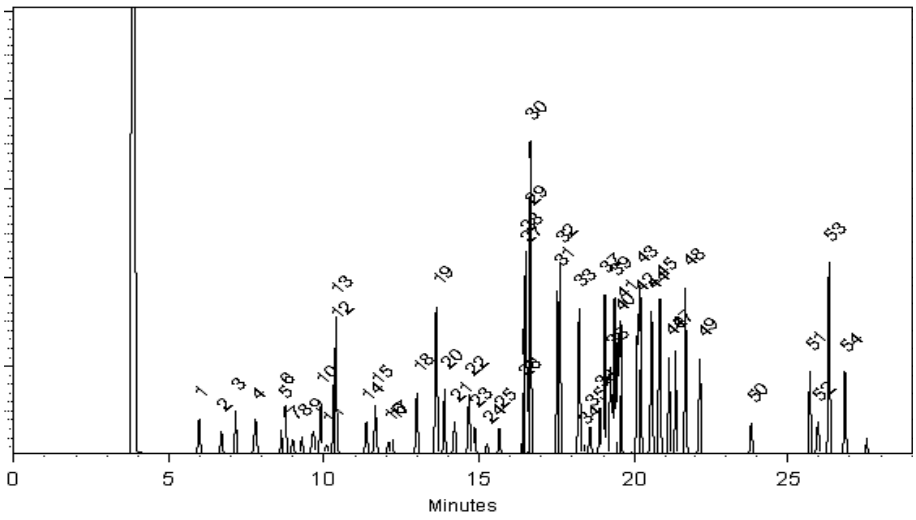
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_00076

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)

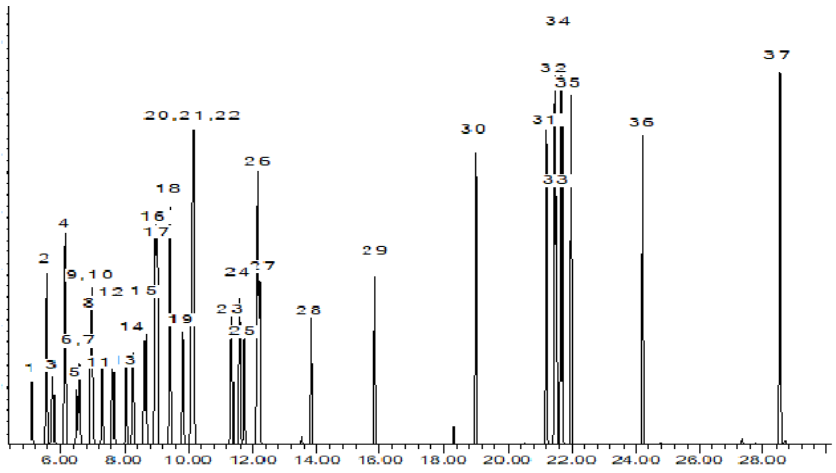
Carrier Gas:
helium-constant pressure 30 psi

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_00082

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)

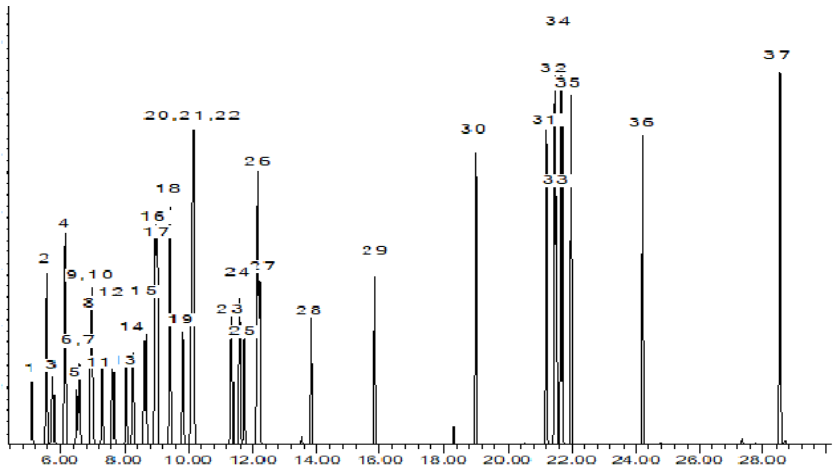
Carrier Gas:
helium-constant pressure 30 psi

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_00085

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)

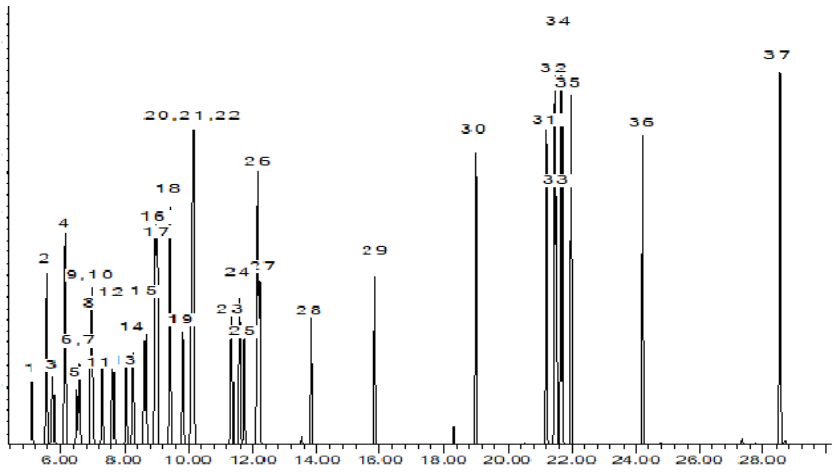
Carrier Gas:
helium-constant pressure 30 psi

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_00087

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

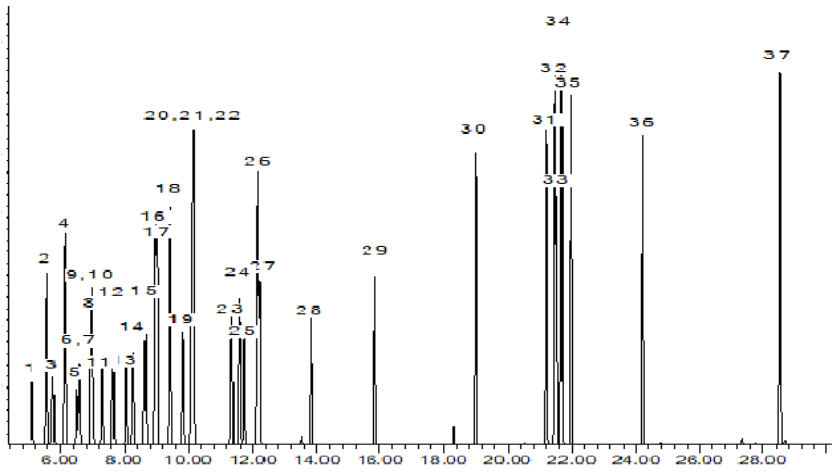
Carrier Gas:
helium-constant pressure 30 psi

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_00075

110 Benner Circle
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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)

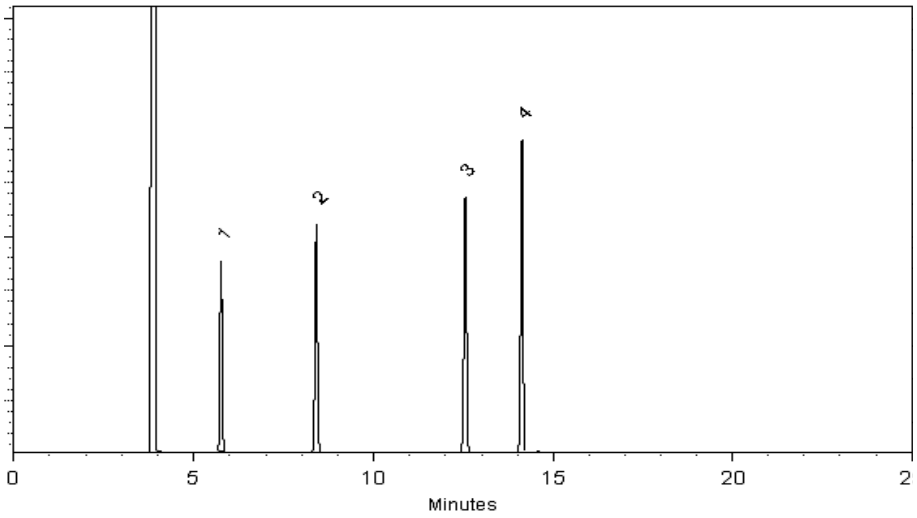
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_Q_Ketones_00082

110 Benner Circle
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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.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 **CAS #** 67-64-1.SEC (Lot S25F025) **Purity** 99%	12,504.0 µg/mL	+/- 73.2137 µg/mL +/- 754.4715 µg/mL +/- 756.2625 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3.SEC (Lot RGZ2A) **Purity** 99%	12,502.0 µg/mL	+/- 73.2020 µg/mL +/- 754.3508 µg/mL +/- 756.1415 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1.SEC (Lot E29T040) **Purity** 99%	12,508.7 µg/mL	+/- 73.2410 µg/mL +/- 754.7530 µg/mL +/- 756.5447 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6.SEC (Lot Y3TUO) **Purity** 99%	12,507.3 µg/mL	+/- 73.2332 µg/mL +/- 754.6726 µg/mL +/- 756.4641 µg/mL	Gravimetric Unstressed 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)

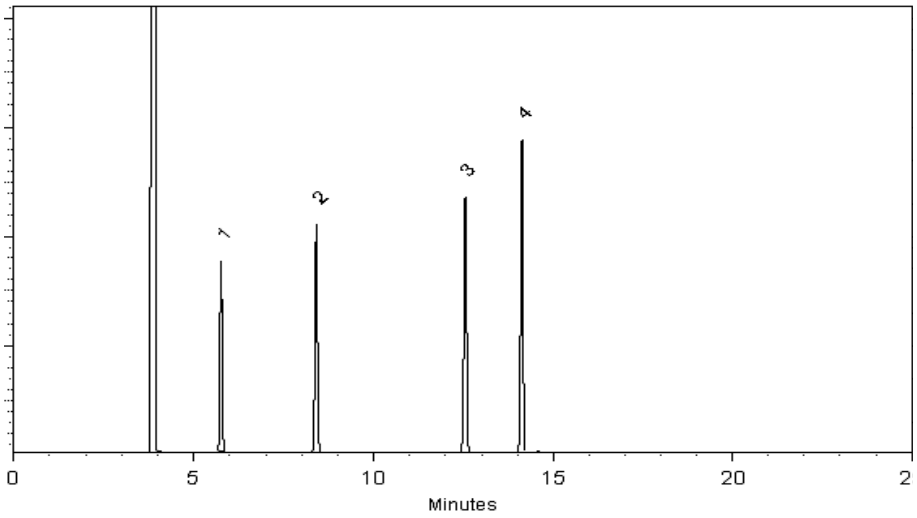
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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:

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- 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_00089

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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 **CAS #** 67-64-1.SEC (Lot S25F025) **Purity** 99%	12,504.0 µg/mL	+/- 73.2137 µg/mL +/- 754.4715 µg/mL +/- 756.2625 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone (MEK) **CAS #** 78-93-3.SEC (Lot RGZ2A) **Purity** 99%	12,502.0 µg/mL	+/- 73.2020 µg/mL +/- 754.3508 µg/mL +/- 756.1415 µg/mL	Gravimetric Unstressed Stressed
3	4-Methyl-2-pentanone (MIBK) **CAS #** 108-10-1.SEC (Lot E29T040) **Purity** 99%	12,508.7 µg/mL	+/- 73.2410 µg/mL +/- 754.7530 µg/mL +/- 756.5447 µg/mL	Gravimetric Unstressed Stressed
4	2-Hexanone **CAS #** 591-78-6.SEC (Lot Y3TUO) **Purity** 99%	12,507.3 µg/mL	+/- 73.2332 µg/mL +/- 754.6726 µg/mL +/- 756.4641 µg/mL	Gravimetric Unstressed 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)

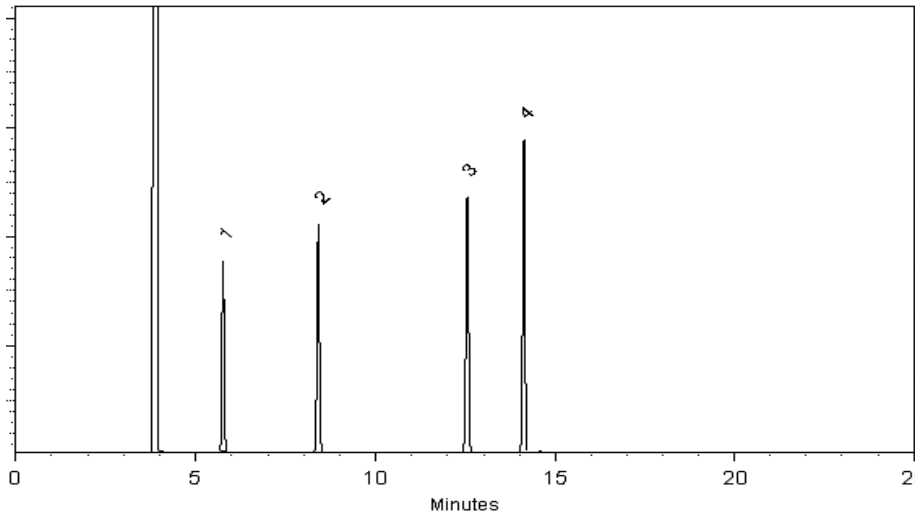
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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:

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

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

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

Manufacturing Notes:

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

Handling Notes:

- 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_00096

RESTEK® CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis

ACCREDITED
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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.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)

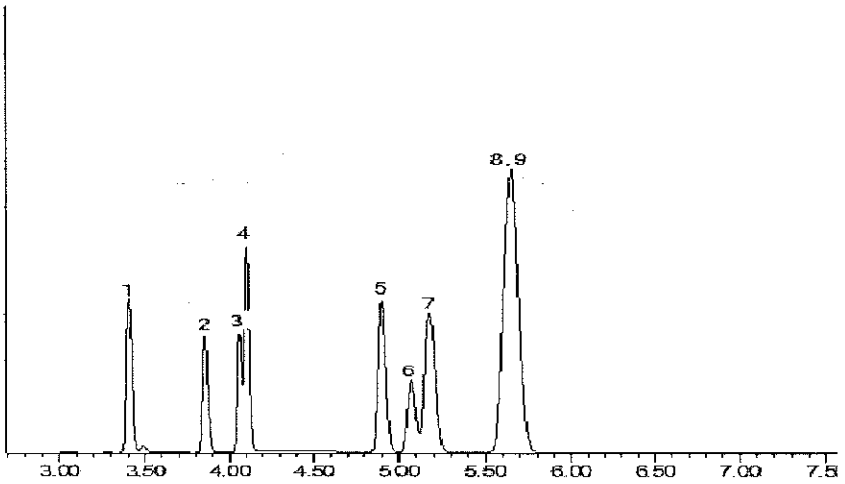
Carrier Gas:
helium-constant flow 2.0 mL/min.

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_QC_2K_GAS_00104

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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. : 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) **CAS #** 75-71-8.SEC (Lot 26871) **Purity** 99%	2,014.7 µg/mL	+/- 21.3347 µg/mL +/- 114.3626 µg/mL +/- 116.9742 µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3.SEC (Lot 18343) **Purity** 99%	2,018.4 µg/mL	+/- 22.6573 µg/mL +/- 114.8157 µg/mL +/- 117.4265 µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4.SEC (Lot MKBK6872V) **Purity** 99%	2,011.6 µg/mL	+/- 18.1502 µg/mL +/- 113.6387 µg/mL +/- 116.2584 µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0.SEC (Lot 26996) **Purity** 99%	2,020.9 µg/mL	+/- 15.6985 µg/mL +/- 113.7849 µg/mL +/- 116.4253 µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9.SEC (Lot 00017022) **Purity** 99%	2,014.3 µg/mL	+/- 52.5641 µg/mL +/- 124.0186 µg/mL +/- 126.4297 µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3.SEC (Lot 00004202) **Purity** 99%	2,009.7 µg/mL	+/- 28.6335 µg/mL +/- 115.6738 µg/mL +/- 118.2437 µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 * (Lot 10930400) **Purity** 99%	2,000.0 µg/mL	+/- 11.7371 µg/mL +/- 112.1494 µg/mL +/- 114.7730 µg/mL	Gravimetric Unstressed 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)

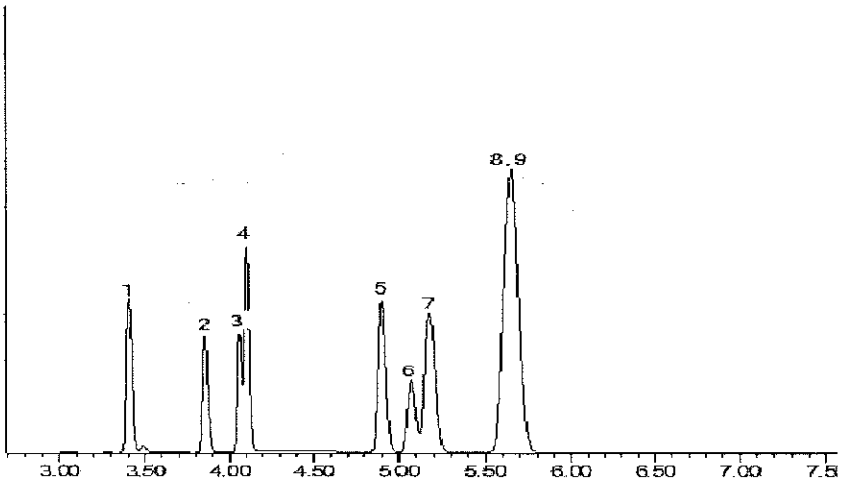
Carrier Gas:
helium-constant flow 2.0 mL/min.

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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Certificate #3222.01

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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. : 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)

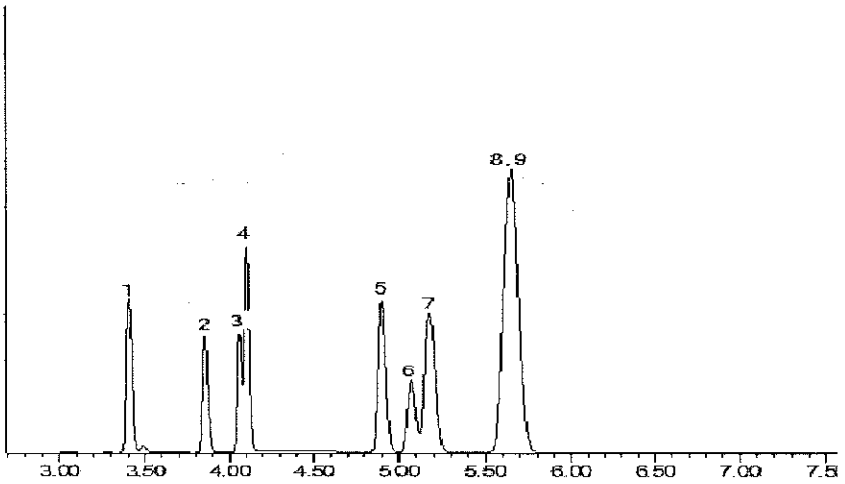
Carrier Gas:
helium-constant flow 2.0 mL/min.

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_00277

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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.:** A0184378

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, 2024 **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%	25,003.0 µg/mL	+/- 146.3981 µg/mL
2	tert-Butanol (TBA)	75-65-0	99%	25,000.0 µg/mL	+/- 146.3805 µg/mL
3	Propionitrile	107-12-0	99%	25,003.0 µg/mL	+/- 146.3981 µg/mL
4	Methacrylonitrile	126-98-7	99%	12,502.0 µg/mL	+/- 73.2020 µg/mL
5	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	62,503.0 µg/mL	+/- 365.9688 µg/mL
6	1-Butanol	71-36-3	98%	124,982.3 µg/mL	+/- 731.7613 µg/mL
7	1,4-Dioxane	123-91-1	99%	62,530.0 µg/mL	+/- 366.1269 µg/mL
8	trans-1,4-dichloro-2-butene	110-57-6	95%	12,496.3 µg/mL	+/- 73.1686 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)

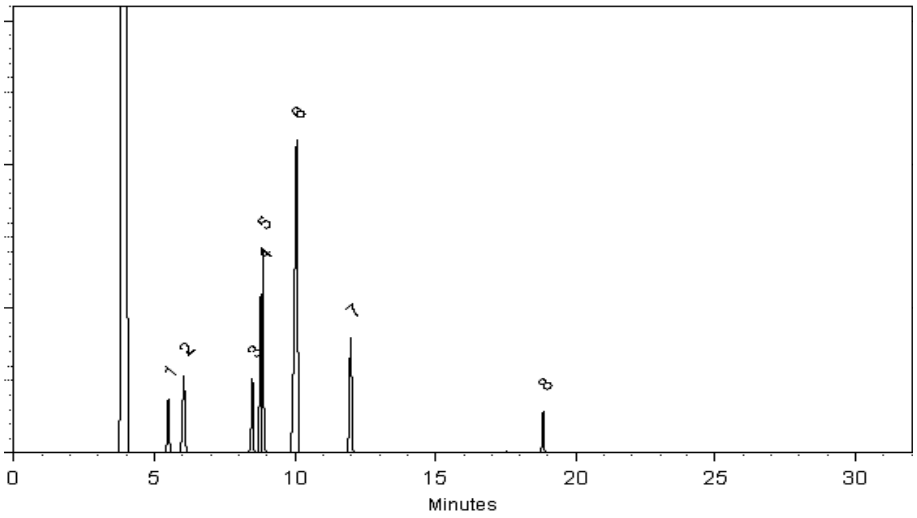
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Josh McCloskey - Operations Technician I

Date Mixed: 21-Apr-2022 **Balance:** B707717271

Christie Mills - Operations Technician II

Date Passed: 27-Apr-2022

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#2B_00283

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Bellefonte, PA 16823-8812
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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.:** A0184378

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, 2024 **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%	25,003.0 µg/mL	+/- 146.3981 µg/mL
2	tert-Butanol (TBA)	75-65-0	99%	25,000.0 µg/mL	+/- 146.3805 µg/mL
3	Propionitrile	107-12-0	99%	25,003.0 µg/mL	+/- 146.3981 µg/mL
4	Methacrylonitrile	126-98-7	99%	12,502.0 µg/mL	+/- 73.2020 µg/mL
5	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	62,503.0 µg/mL	+/- 365.9688 µg/mL
6	1-Butanol	71-36-3	98%	124,982.3 µg/mL	+/- 731.7613 µg/mL
7	1,4-Dioxane	123-91-1	99%	62,530.0 µg/mL	+/- 366.1269 µg/mL
8	trans-1,4-dichloro-2-butene	110-57-6	95%	12,496.3 µg/mL	+/- 73.1686 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)

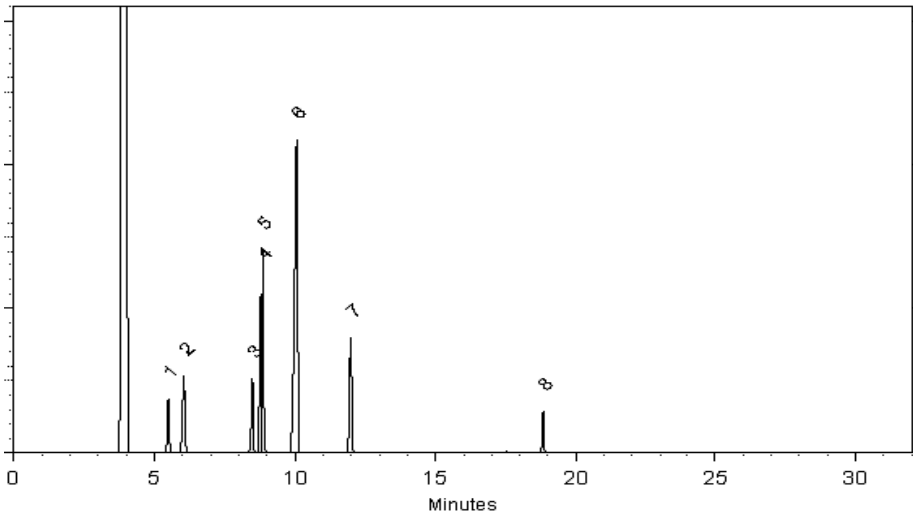
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Josh McCloskey - Operations Technician I

Date Mixed: 21-Apr-2022 **Balance:** B707717271

Christie Mills - Operations Technician II

Date Passed: 27-Apr-2022

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_00074

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 **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)

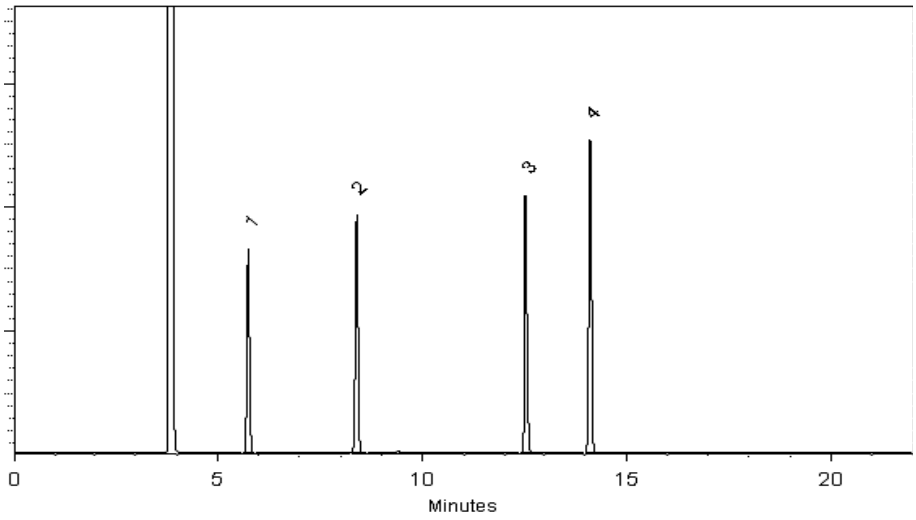
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_Ketones_00080

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
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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)

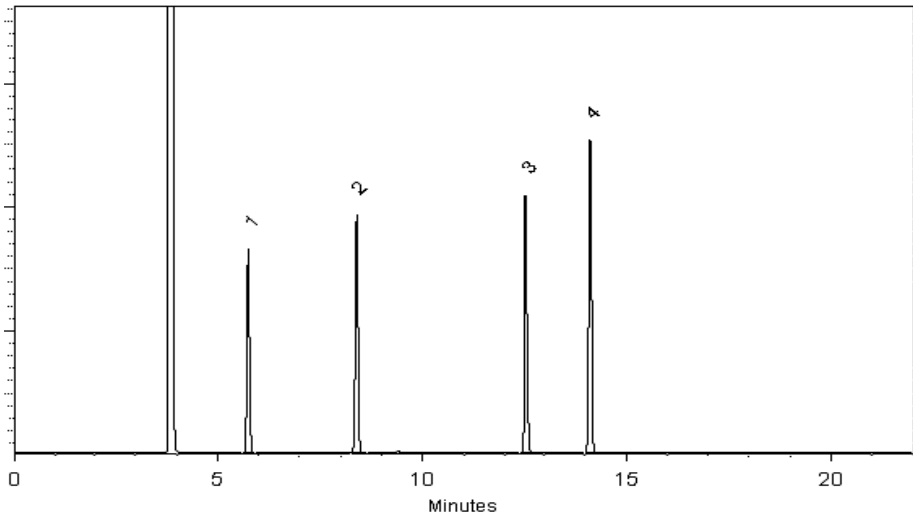
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

MSV_V_Ketones_00083

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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. : 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)

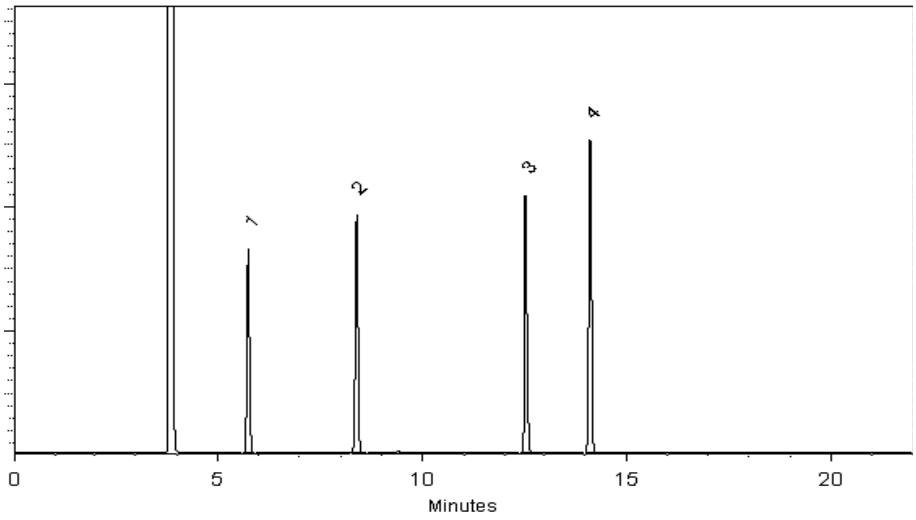
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_Ketones_00085

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

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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)

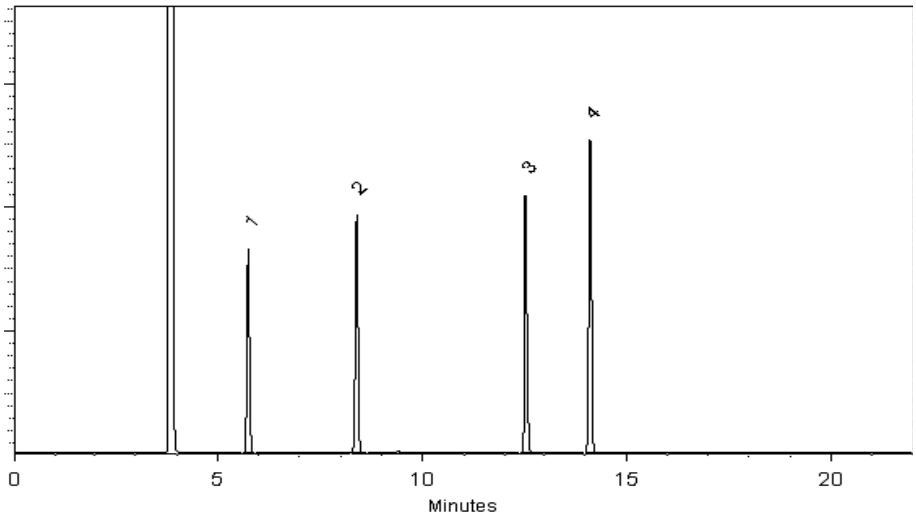
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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:

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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.
- 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_00019

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)

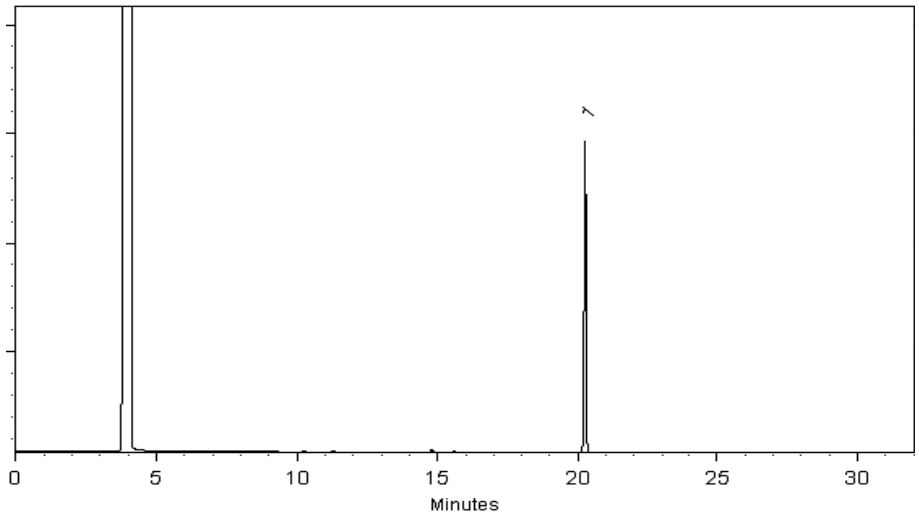
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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:

- 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_00020

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)

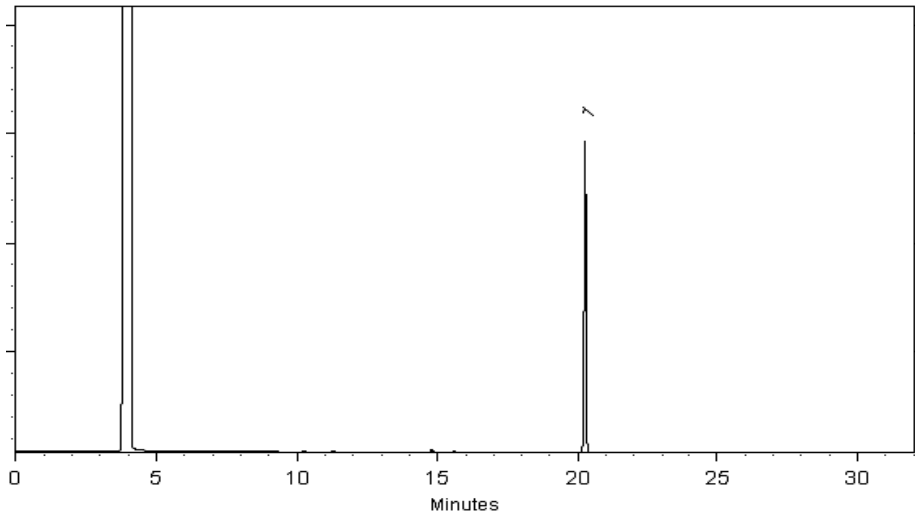
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Method 8260D Low Level

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-99372-1

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	410-99372-1	99	106	105	97
HD-COD-SW-7-0/1-0	410-99372-2	100	104	103	96
HD-COD-SW-8-0/1-0	410-99372-3	99	102	105	96
HD-COD-SW-9-0/1-0	410-99372-4	98	106	103	97
HD-COD-SW-13-0/1-0	410-99372-5	99	105	104	97
HD-COD-SW-15-0/1-0	410-99372-6	99	103	104	97
HD-COD-SW-16-0/1-0	410-99372-7	100	104	103	97
HD-COD-SW-17-0/1-0	410-99372-8	99	104	103	97
HD-COD-SW-17-0/1-0 DL	410-99372-8 DL	106 cn	108 cn	96 cn	94 cn
HD-COD-SW-26-0/1-0	410-99372-9	99	108	104	98
HD-COD-SW-27-0/1-0	410-99372-10	98	106	103	97
HD-COD-SW-28-0/1-0	410-99372-11	99	108	103	97
HD-COD-SW-29-0/1-0	410-99372-12	99	102	103	95
HD-COD-QC1-0/1-1	410-99372-13	100	106	101	95
HD-COD-QC1-0/1-1 DL	410-99372-13 DL	99	102	103	96
HD-COD-QC1-0/1-2	410-99372-14	100	108	104	96
	MB 410-303234/6	98	104	104	96
	MB 410-304184/6	105	108	95	95
	LCS 410-303234/4	99	104	105	100
	LCS 410-304184/4	106	104	96	98
HD-COD-SW-15-0/1-0 MS MS	410-99372-6 MS	100	105	104	100
HD-COD-SW-15-0/1-0 MSD MSD	410-99372-6 MSD	100	106	105	99

	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.: 410-99372-1

SDG No.:

Matrix: Water Level: Low Lab File ID: HO05X03.D

Lab ID: LCS 410-303234/4 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	4.87	97	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.68	114	75-123	
1,1,2-Trichloroethane	5.00	5.50	110	80-120	
1,1-Dichloroethane	5.00	4.96	99	74-120	
1,1-Dichloroethene	5.00	4.79	96	80-131	
1,2-Dibromoethane (EDB)	5.00	5.71	114	80-120	
1,2-Dichloroethane	5.00	5.61	112	69-122	
1,2-Dichloropropane	5.00	4.98	100	80-120	
2-Butanone (MEK)	62.5	58.5	94	59-141	
2-Hexanone	62.5	57.1	91	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	54.3	87	55-140	
Acetone	62.5	53.8	86	60-146	
Benzene	5.00	4.88	98	80-120	
Bromochloromethane	5.00	5.19	104	80-120	
Bromodichloromethane	5.00	5.35	107	73-124	
Bromoform	5.00	5.91	118	49-144	
Bromomethane	5.00	4.39	88	60-136	
Carbon disulfide	5.00	5.39	108	67-130	
Carbon tetrachloride	5.00	4.87	97	64-141	
Chlorobenzene	5.00	5.32	106	80-120	
Chloroethane	5.00	4.61	92	63-120	
Chloroform	5.00	4.99	100	80-120	
Chloromethane	5.00	4.45	89	56-124	
cis-1,2-Dichloroethene	5.00	4.98	100	80-122	
cis-1,3-Dichloropropene	5.00	5.05	101	67-121	
Dibromochloromethane	5.00	5.66	113	64-138	
Ethylbenzene	5.00	5.22	104	80-120	
Methyl tert-butyl ether	5.00	5.16	103	69-120	
Methylene Chloride	5.00	4.99	100	80-120	
Styrene	5.00	5.33	107	80-120	
Tetrachloroethene	5.00	5.22	104	80-120	
Toluene	5.00	5.25	105	80-120	
trans-1,2-Dichloroethene	5.00	4.78	96	80-122	
trans-1,3-Dichloropropene	5.00	5.83	117	61-129	
Trichloroethene	5.00	4.81	96	80-120	
Vinyl chloride	5.00	4.24	85	60-125	
Xylenes, Total	15.0	15.8	105	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.: 410-99372-1

SDG No.:

Matrix: Water Level: Low Lab File ID: CC07X03.D

Lab ID: LCS 410-304184/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.23	105	71-134	
1,1,1-Trichloroethane	5.00	4.96	99	78-126	
1,1,2,2-Tetrachloroethane	5.00	4.74	95	75-123	
1,1,2-Trichloroethane	5.00	5.06	101	80-120	
1,1-Dichloroethane	5.00	4.74	95	74-120	
1,1-Dichloroethene	5.00	5.38	108	80-131	
1,2-Dibromoethane (EDB)	5.00	5.27	105	80-120	
1,2-Dichloroethane	5.00	4.72	94	69-122	
1,2-Dichloropropane	5.00	4.89	98	80-120	
2-Butanone (MEK)	62.5	62.3	100	59-141	
2-Hexanone	62.5	65.5	105	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	63.5	102	55-140	
Acetone	62.5	56.8	91	60-146	
Benzene	5.00	4.98	100	80-120	
Bromochloromethane	5.00	5.61	112	80-120	
Bromodichloromethane	5.00	5.19	104	73-124	
Bromoform	5.00	5.32	106	49-144	
Bromomethane	5.00	4.97	99	60-136	
Carbon disulfide	5.00	6.54	131	67-130	*+
Carbon tetrachloride	5.00	5.24	105	64-141	
Chlorobenzene	5.00	4.88	98	80-120	
Chloroethane	5.00	4.63	93	63-120	
Chloroform	5.00	4.97	99	80-120	
Chloromethane	5.00	4.92	98	56-124	
cis-1,2-Dichloroethene	5.00	5.36	107	80-122	
cis-1,3-Dichloropropene	5.00	4.64	93	67-121	
Dibromochloromethane	5.00	5.09	102	64-138	
Ethylbenzene	5.00	4.78	96	80-120	
Methyl tert-butyl ether	5.00	5.03	101	69-120	
Methylene Chloride	5.00	5.06	101	80-120	
Styrene	5.00	4.81	96	80-120	
Tetrachloroethene	5.00	5.25	105	80-120	
Toluene	5.00	4.72	94	80-120	
trans-1,2-Dichloroethene	5.00	5.06	101	80-122	
trans-1,3-Dichloropropene	5.00	4.54	91	61-129	
Trichloroethene	5.00	5.14	103	80-120	
Vinyl chloride	5.00	4.78	96	60-125	
Xylenes, Total	15.0	14.6	98	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-99372-1

SDG No.:

Matrix: Water Level: Low Lab File ID: HO05X16.D

Lab ID: 410-99372-6 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	5.19	104	71-134	
1,1,1-Trichloroethane	5.00	0.26 J	5.17	98	78-126	
1,1,2,2-Tetrachloroethane	5.00	ND	5.25	105	75-123	
1,1,2-Trichloroethane	5.00	ND	5.26	105	80-120	
1,1-Dichloroethane	5.00	0.11 J	4.96	97	74-120	
1,1-Dichloroethene	5.00	0.12 J	5.10	99	80-131	
1,2-Dibromoethane (EDB)	5.00	ND	5.55	111	80-120	
1,2-Dichloroethane	5.00	ND	5.40	108	69-122	
1,2-Dichloropropane	5.00	ND	4.93	99	80-120	
2-Butanone (MEK)	62.6	ND	56.7	91	59-141	
2-Hexanone	62.6	ND	57.6	92	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	ND	54.6	87	55-140	
Acetone	62.6	ND	53.7	86	60-146	
Benzene	5.00	ND	4.87	97	80-120	
Bromochloromethane	5.00	ND	4.95	99	80-120	
Bromodichloromethane	5.00	ND	5.10	102	73-124	
Bromoform	5.00	ND	5.40	108	49-144	
Bromomethane	5.00	ND	4.55	91	60-136	
Carbon disulfide	5.00	ND	5.33	106	67-130	
Carbon tetrachloride	5.00	ND	4.97	99	64-141	
Chlorobenzene	5.00	ND	5.28	105	80-120	
Chloroethane	5.00	ND	4.76	95	63-120	
Chloroform	5.00	0.33 J	5.30	99	80-120	
Chloromethane	5.00	ND	4.76	95	80-120	
cis-1,2-Dichloroethene	5.00	1.3	6.17	98	80-122	
cis-1,3-Dichloropropene	5.00	ND	4.93	99	67-121	
Dibromochloromethane	5.00	ND	5.50	110	64-138	
Ethylbenzene	5.00	ND	5.15	103	80-120	
Methyl tert-butyl ether	5.00	ND	4.93	98	69-120	
Methylene Chloride	5.00	ND	4.86	97	80-120	
Styrene	5.00	ND	5.24	105	80-120	
Tetrachloroethene	5.00	5.5	10.8	105	80-120	
Toluene	5.00	ND	5.19	104	80-120	
trans-1,2-Dichloroethene	5.00	ND	4.82	96	80-122	
trans-1,3-Dichloropropene	5.00	ND	5.60	112	61-129	
Trichloroethene	5.00	1.2	6.08	97	80-120	
Vinyl chloride	5.00	ND	4.53	90	60-125	
Xylenes, Total	15.0	ND	15.7	105	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.: 410-99372-1

SDG No.:

Matrix: Water Level: Low Lab File ID: HO05X17.D

Lab ID: 410-99372-6 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	5.51	110	6	30	71-134	
1,1,1-Trichloroethane	5.00	5.46	104	5	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.57	111	6	30	75-123	
1,1,2-Trichloroethane	5.00	5.70	114	8	30	80-120	
1,1-Dichloroethane	5.00	5.31	104	7	30	74-120	
1,1-Dichloroethene	5.00	5.46	107	7	30	80-131	
1,2-Dibromoethane (EDB)	5.00	5.83	116	5	30	80-120	
1,2-Dichloroethane	5.00	5.69	114	5	30	69-122	
1,2-Dichloropropane	5.00	5.20	104	5	30	80-120	
2-Butanone (MEK)	62.6	61.3	98	8	30	59-141	
2-Hexanone	62.6	61.2	98	6	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	57.9	93	6	30	55-140	
Acetone	62.6	55.4	88	3	30	60-146	
Benzene	5.00	5.17	103	6	30	80-120	
Bromochloromethane	5.00	5.30	106	7	30	80-120	
Bromodichloromethane	5.00	5.36	107	5	30	73-124	
Bromoform	5.00	5.76	115	6	30	49-144	
Bromomethane	5.00	4.92	98	8	30	60-136	
Carbon disulfide	5.00	5.65	113	6	30	67-130	
Carbon tetrachloride	5.00	5.40	108	8	30	64-141	
Chlorobenzene	5.00	5.54	111	5	30	80-120	
Chloroethane	5.00	5.05	101	6	30	63-120	
Chloroform	5.00	5.62	106	6	30	80-120	
Chloromethane	5.00	5.04	101	6	30	80-120	
cis-1,2-Dichloroethene	5.00	6.56	106	6	30	80-122	
cis-1,3-Dichloropropene	5.00	5.17	103	5	30	67-121	
Dibromochloromethane	5.00	5.81	116	5	30	64-138	
Ethylbenzene	5.00	5.51	110	7	30	80-120	
Methyl tert-butyl ether	5.00	5.16	103	5	30	69-120	
Methylene Chloride	5.00	5.12	102	5	30	80-120	
Styrene	5.00	5.44	109	4	30	80-120	
Tetrachloroethene	5.00	11.4	117	5	30	80-120	
Toluene	5.00	5.52	110	6	30	80-120	
trans-1,2-Dichloroethene	5.00	5.16	103	7	30	80-122	
trans-1,3-Dichloropropene	5.00	5.84	117	4	30	61-129	
Trichloroethene	5.00	6.47	105	6	30	80-120	
Vinyl chloride	5.00	4.93	99	9	30	60-125	
Xylenes, Total	15.0	16.6	110	5	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.: 410-99372-1

SDG No.:

Lab File ID: HO05X05.D Lab Sample ID: MB 410-303234/6

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

Instrument ID: 19094 Date Analyzed: 10/05/2022 10:47

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 410-303234/4	HO05X03.D	10/05/2022 10:06
HD-COD-QC1-0/1-2	410-99372-14	HO05X06.D	10/05/2022 11:07
HD-COD-SW-6-0/1-0	410-99372-1	HO05X10.D	10/05/2022 12:28
HD-COD-SW-7-0/1-0	410-99372-2	HO05X11.D	10/05/2022 12:49
HD-COD-SW-8-0/1-0	410-99372-3	HO05X12.D	10/05/2022 13:09
HD-COD-SW-9-0/1-0	410-99372-4	HO05X13.D	10/05/2022 13:29
HD-COD-SW-13-0/1-0	410-99372-5	HO05X14.D	10/05/2022 13:50
HD-COD-SW-15-0/1-0	410-99372-6	HO05X15.D	10/05/2022 14:10
HD-COD-SW-15-0/1-0 MS MS	410-99372-6 MS	HO05X16.D	10/05/2022 14:30
HD-COD-SW-15-0/1-0 MSD MSD	410-99372-6 MSD	HO05X17.D	10/05/2022 14:51
HD-COD-SW-16-0/1-0	410-99372-7	HO05X18.D	10/05/2022 15:11
HD-COD-SW-17-0/1-0	410-99372-8	HO05X19.D	10/05/2022 15:31
HD-COD-SW-26-0/1-0	410-99372-9	HO05X20.D	10/05/2022 15:52
HD-COD-SW-27-0/1-0	410-99372-10	HO05X21.D	10/05/2022 16:12
HD-COD-SW-28-0/1-0	410-99372-11	HO05X22.D	10/05/2022 16:33
HD-COD-SW-29-0/1-0	410-99372-12	HO05X23.D	10/05/2022 16:53
HD-COD-QC1-0/1-1	410-99372-13	HO05X24.D	10/05/2022 17:13
HD-COD-QC1-0/1-1 DL	410-99372-13 DL	HO05X25.D	10/05/2022 17:34

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-99372-1

SDG No.:

Lab File ID: CC07X05.D Lab Sample ID: MB 410-304184/6

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

Instrument ID: 10193 Date Analyzed: 10/07/2022 12:23

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 410-304184/4	CC07X03.D	10/07/2022 11:39
HD-COD-SW-17-0/1-0 DL	410-99372-8 DL	CC07X14.D	10/07/2022 16:01

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-99372-1

SDG No.:

Lab File ID: CG22T04.D BFB Injection Date: 08/22/2022

Instrument ID: 10193 BFB Injection Time: 15:51

Analysis Batch No.: 288300

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.8	
75	30.0 - 60.0 % of mass 95	45.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	0.7	(0.9) 1
174	Greater than 50% of mass 95	80.5	
175	5.0 - 9.0 % of mass 174	6.4	(8.0) 1
176	95.0 - 101.0 % of mass 174	79.2	(98.3) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.6) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 410-288300/13	CG22X12.D	08/22/2022	20:12
	IC 410-288300/14	CG22X13.D	08/22/2022	20:34
	IC 410-288300/15	CG22X14.D	08/22/2022	20:57
	IC 410-288300/16	CG22X15.D	08/22/2022	21:19
	IC 410-288300/17	CG22X16.D	08/22/2022	21:41
	ICIS 410-288300/18	CG22X17.D	08/22/2022	22:04
	IC 410-288300/19	CG22X18.D	08/22/2022	22:26
	ICV 410-288300/21	CG22X20.D	08/22/2022	23:10

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-99372-1

SDG No.:

Lab File ID: CC07T01.D BFB Injection Date: 10/07/2022

Instrument ID: 10193 BFB Injection Time: 10:39

Analysis Batch No.: 304184

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.7	
75	30.0 - 60.0 % of mass 95	43.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.8	(0.8) 1
174	Greater than 50% of mass 95	93.8	
175	5.0 - 9.0 % of mass 174	6.9	(7.4) 1
176	95.0 - 101.0 % of mass 174	89.7	(95.6) 1
177	5.0 - 9.0 % of mass 176	5.9	(6.6) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-304184/3	CC07X02.D	10/07/2022	11:17
	LCS 410-304184/4	CC07X03.D	10/07/2022	11:39
	MB 410-304184/6	CC07X05.D	10/07/2022	12:23
HD-COD-SW-17-0/1-0 DL	410-99372-8 DL	CC07X14.D	10/07/2022	16:01

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-99372-1

SDG No.:

Lab File ID: HL11T03.D BFB Injection Date: 07/11/2022

Instrument ID: 19094 BFB Injection Time: 13:17

Analysis Batch No.: 274149

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	45.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	1.0	(1.2) 1
174	Greater than 50% of mass 95	86.4	
175	5.0 - 9.0 % of mass 174	6.4	(7.4) 1
176	95.0 - 101.0 % of mass 174	83.6	(96.8) 1
177	5.0 - 9.0 % of mass 176	5.9	(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 410-274149/12	HL11X12.D	07/11/2022	16:51
	ICIS 410-274149/13	HL11X13.D	07/11/2022	17:11
	IC 410-274149/14	HL11X14.D	07/11/2022	17:31
	IC 410-274149/15	HL11X15.D	07/11/2022	17:51
	IC 410-274149/16	HL11X16.D	07/11/2022	18:11
	IC 410-274149/17	HL11X17.D	07/11/2022	18:32
	IC 410-274149/18	Copy_HL11X18.	07/11/2022	18:52

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-99372-1

SDG No.:

Lab File ID: copy_HL14T01.D BFB Injection Date: 07/14/2022

Instrument ID: 19094 BFB Injection Time: 19:09

Analysis Batch No.: 275687

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	45.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	1.0	(1.3) 1
174	Greater than 50% of mass 95	80.0	
175	5.0 - 9.0 % of mass 174	6.3	(7.9) 1
176	95.0 - 101.0 % of mass 174	78.2	(97.7) 1
177	5.0 - 9.0 % of mass 176	4.9	(6.2) 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
	ICV 410-275687/4	copy_HL14X03.	07/14/2022	20:04

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-99372-1

SDG No.:

Lab File ID: HO05T01.D BFB Injection Date: 10/05/2022

Instrument ID: 19094 BFB Injection Time: 09:13

Analysis Batch No.: 303234

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.2	
75	30.0 - 60.0 % of mass 95	45.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.7	(0.8) 1
174	Greater than 50% of mass 95	87.9	
175	5.0 - 9.0 % of mass 174	6.8	(7.8) 1
176	95.0 - 101.0 % of mass 174	83.9	(95.5) 1
177	5.0 - 9.0 % of mass 176	5.3	(6.3) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-303234/3	HO05X02.D	10/05/2022	9:46
	LCS 410-303234/4	HO05X03.D	10/05/2022	10:06
	MB 410-303234/6	HO05X05.D	10/05/2022	10:47
HD-COD-QC1-0/1-2	410-99372-14	HO05X06.D	10/05/2022	11:07
HD-COD-SW-6-0/1-0	410-99372-1	HO05X10.D	10/05/2022	12:28
HD-COD-SW-7-0/1-0	410-99372-2	HO05X11.D	10/05/2022	12:49
HD-COD-SW-8-0/1-0	410-99372-3	HO05X12.D	10/05/2022	13:09
HD-COD-SW-9-0/1-0	410-99372-4	HO05X13.D	10/05/2022	13:29
HD-COD-SW-13-0/1-0	410-99372-5	HO05X14.D	10/05/2022	13:50
HD-COD-SW-15-0/1-0	410-99372-6	HO05X15.D	10/05/2022	14:10
HD-COD-SW-15-0/1-0 MS MS	410-99372-6 MS	HO05X16.D	10/05/2022	14:30
HD-COD-SW-15-0/1-0 MSD MSD	410-99372-6 MSD	HO05X17.D	10/05/2022	14:51
HD-COD-SW-16-0/1-0	410-99372-7	HO05X18.D	10/05/2022	15:11
HD-COD-SW-17-0/1-0	410-99372-8	HO05X19.D	10/05/2022	15:31
HD-COD-SW-26-0/1-0	410-99372-9	HO05X20.D	10/05/2022	15:52
HD-COD-SW-27-0/1-0	410-99372-10	HO05X21.D	10/05/2022	16:12
HD-COD-SW-28-0/1-0	410-99372-11	HO05X22.D	10/05/2022	16:33
HD-COD-SW-29-0/1-0	410-99372-12	HO05X23.D	10/05/2022	16:53
HD-COD-QC1-0/1-1	410-99372-13	HO05X24.D	10/05/2022	17:13
HD-COD-QC1-0/1-1 DL	410-99372-13 DL	HO05X25.D	10/05/2022	17:34

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-99372-1

SDG No.:

Sample No.: ICIS 410-288300/18 Date Analyzed: 08/22/2022 22:04

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

Lab File ID (Standard): CG22X17.D Heated Purge: (Y/N) N

Calibration ID: 41918

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		129707	3.75	1988424	7.20	1523479	10.84
UPPER LIMIT		259414	4.25	3976848	7.70	3046958	11.34
LOWER LIMIT		64854	3.25	994212	6.70	761740	10.34
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-288300/21		120148	3.74	1986750	7.19	1518942	10.84
CCVIS 410-304184/3		134898	3.71	2165716	7.16	1794432	10.81

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.: 410-99372-1

SDG No.:

Sample No.: ICIS 410-288300/18 Date Analyzed: 08/22/2022 22:04

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

Lab File ID (Standard): CG22X17.D Heated Purge: (Y/N) N

Calibration ID: 41918

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		900908	12.77				
UPPER LIMIT		1801816	13.27				
LOWER LIMIT		450454	12.27				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-288300/21		882310	12.77				
CCVIS 410-304184/3		1115320	12.76				

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.: 410-99372-1

SDG No.:

Sample No.: CCVIS 410-304184/3 Date Analyzed: 10/07/2022 11:17

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

Lab File ID (Standard): CC07X02.D Heated Purge: (Y/N) N

Calibration ID: 41918

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		134898	3.71	2165716	7.16	1794432	10.81
UPPER LIMIT		269796	4.21	4331432	7.66	3588864	11.31
LOWER LIMIT		67449	3.21	1082858	6.66	897216	10.31
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-304184/4		137816	3.71	2181142	7.16	1775607	10.81
MB 410-304184/6		187083	3.71	2115114	7.16	1748791	10.81
410-99372-8 DL	HD-COD-SW-17-0/1-0 DL	148115	3.71	2033932	7.15	1660350	10.81

TBAd10 = t-Butyl alcohol-d10 (IS)
TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)
FB = Fluorobenzene (IS)
Area Limit = 50%-200% of internal standard area
CBZd5 = Chlorobenzene-d5 (IS)
RT Limit = ± 0.5 minutes of internal standard RT
CBZd5 = Chlorobenzene-d5 (IS)

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.: 410-99372-1

SDG No.:

Sample No.: CCVIS 410-304184/3 Date Analyzed: 10/07/2022 11:17

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

Lab File ID (Standard): CC07X02.D Heated Purge: (Y/N) N

Calibration ID: 41918

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		1115320	12.76				
UPPER LIMIT		2230640	13.26				
LOWER LIMIT		557660	12.26				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-304184/4		1081773	12.76				
MB 410-304184/6		1027698	12.76				
410-99372-8 DL	HD-COD-SW-17-0/1-0 DL	973669	12.76				

DCBd4 = 1,4-Dichlorobenzene-d4
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-99372-1

SDG No.:

Sample No.: ICIS 410-274149/13 Date Analyzed: 07/11/2022 17:11

Instrument ID: 19094 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): HL11X13.D Heated Purge: (Y/N) N

Calibration ID: 40553

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		101370	4.12	2081655	7.63	1866823	11.13
UPPER LIMIT		202740	4.62	4163310	8.13	3733646	11.63
LOWER LIMIT		50685	3.62	1040828	7.13	933412	10.63
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-275687/4		96858	4.13	2450189	7.63	1821571	11.13
CCVIS 410-303234/3		111918	4.17	1753053	7.65	1431417	11.11

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.: 410-99372-1

SDG No.:

Sample No.: ICIS 410-274149/13 Date Analyzed: 07/11/2022 17:11

Instrument ID: 19094 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): HL11X13.D Heated Purge: (Y/N) N

Calibration ID: 40553

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		1051287	13.02				
UPPER LIMIT		2102574	13.52				
LOWER LIMIT		525644	12.52				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-275687/4		981185	13.02				
CCVIS 410-303234/3		818898	12.99				

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.: 410-99372-1

SDG No.:

Sample No.: CCVIS 410-303234/3 Date Analyzed: 10/05/2022 09:46

Instrument ID: 19094 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): HO05X02.D Heated Purge: (Y/N) N

Calibration ID: 40553

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		111918	4.17	1753053	7.65	1431417	11.11
UPPER LIMIT		223836	4.67	3506106	8.15	2862834	11.61
LOWER LIMIT		55959	3.67	876527	7.15	715709	10.61
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-303234/4		113794	4.17	1754695	7.65	1436122	11.12
MB 410-303234/6		103427	4.16	1713624	7.65	1387637	11.12
410-99372-14	HD-COD-QC1-0/1-2	115166	4.18	1748752	7.65	1436594	11.12
410-99372-1	HD-COD-SW-6-0/1-0	104656	4.18	1694687	7.65	1376677	11.12
410-99372-2	HD-COD-SW-7-0/1-0	104317	4.18	1639719	7.65	1347834	11.12
410-99372-3	HD-COD-SW-8-0/1-0	100936	4.18	1642757	7.65	1338699	11.12
410-99372-4	HD-COD-SW-9-0/1-0	96443	4.17	1659190	7.65	1359085	11.12
410-99372-5	HD-COD-SW-13-0/1-0	96674	4.17	1626021	7.65	1334733	11.12
410-99372-6	HD-COD-SW-15-0/1-0	100749	4.17	1666373	7.65	1357366	11.12
410-99372-6 MS	HD-COD-SW-15-0/1-0 MS MS	102889	4.18	1699509	7.65	1402342	11.12
410-99372-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	103591	4.17	1741410	7.65	1425175	11.12
410-99372-7	HD-COD-SW-16-0/1-0	105258	4.17	1692318	7.65	1403446	11.12
410-99372-8	HD-COD-SW-17-0/1-0	102535	4.18	1684248	7.65	1389692	11.12
410-99372-9	HD-COD-SW-26-0/1-0	107151	4.18	1684789	7.65	1383330	11.12
410-99372-10	HD-COD-SW-27-0/1-0	100614	4.17	1636327	7.65	1351309	11.12
410-99372-11	HD-COD-SW-28-0/1-0	92841	4.17	1629809	7.65	1340433	11.12
410-99372-12	HD-COD-SW-29-0/1-0	90022	4.17	1617249	7.65	1342229	11.12
410-99372-13	HD-COD-QC1-0/1-1	98676	4.17	1631332	7.65	1369889	11.12
410-99372-13 DL	HD-COD-QC1-0/1-1 DL	80155	4.18	1635210	7.65	1348613	11.12

TBAd10 = t-Butyl alcohol-d10 (IS)
TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)
CBZd5 = Chlorobenzene-d5 (IS)
Area Limit = 50%-200% of internal standard area
CBZd5 = Chlorobenzene-d5 (IS)
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.: 410-99372-1

SDG No.:

Sample No.: CCVIS 410-303234/3 Date Analyzed: 10/05/2022 09:46

Instrument ID: 19094 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): HO05X02.D Heated Purge: (Y/N) N

Calibration ID: 40553

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		818898	12.99				
UPPER LIMIT		1637796	13.49				
LOWER LIMIT		409449	12.49				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-303234/4		815435	12.99				
MB 410-303234/6		757942	12.99				
410-99372-14	HD-COD-QC1-0/1-2	790626	12.99				
410-99372-1	HD-COD-SW-6-0/1-0	759495	12.99				
410-99372-2	HD-COD-SW-7-0/1-0	732215	12.99				
410-99372-3	HD-COD-SW-8-0/1-0	734111	12.99				
410-99372-4	HD-COD-SW-9-0/1-0	745782	12.99				
410-99372-5	HD-COD-SW-13-0/1-0	728562	12.99				
410-99372-6	HD-COD-SW-15-0/1-0	739284	12.99				
410-99372-6 MS	HD-COD-SW-15-0/1-0 MS MS	812401	12.99				
410-99372-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	798275	12.99				
410-99372-7	HD-COD-SW-16-0/1-0	754833	12.99				
410-99372-8	HD-COD-SW-17-0/1-0	755683	12.99				
410-99372-9	HD-COD-SW-26-0/1-0	759207	12.99				
410-99372-10	HD-COD-SW-27-0/1-0	736195	12.99				
410-99372-11	HD-COD-SW-28-0/1-0	733130	12.99				
410-99372-12	HD-COD-SW-29-0/1-0	725202	12.99				
410-99372-13	HD-COD-QC1-0/1-1	739777	12.99				
410-99372-13 DL	HD-COD-QC1-0/1-1 DL	731935	12.99				

DCBd4 = 1,4-Dichlorobenzene-d4
DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260D

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-6-0/1-0 Lab Sample ID: 410-99372-1

Matrix: Water Lab File ID: HO05X10.D

Analysis Method: 8260D Date Collected: 09/23/2022 10:10

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 12:28

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 303234 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	1.0	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	0.10	J cn	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-6-0/1-0 Lab Sample ID: 410-99372-1

Matrix: Water Lab File ID: HO05X10.D

Analysis Method: 8260D Date Collected: 09/23/2022 10:10

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 12:28

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 303234 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		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\19094\20221005-67970.b\HO05X10.D
Lims ID: 410-99372-A-1
Client ID: HD-COD-SW-6-0/1-0
Sample Type: Client
Inject. Date: 05-Oct-2022 12:28:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0067970-011
Operator ID: knk41612 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2022 14:03:21 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:03:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.117	2.123	-0.006	0	2667	0.0410	
7 Vinyl chloride	62		2.239				ND	
9 Bromomethane	94		2.575				ND	
10 Chloroethane	64		2.654				ND	
18 1,1-Dichloroethene	96		3.513				ND	
19 Acetone	43	3.587	3.532	0.055	66	6970	1.04	
24 Carbon disulfide	76	3.806	3.812	-0.006	98	11961	0.1014	
* 29 t-Butyl alcohol-d10 (IS)	65	4.178	4.166	0.012	25	104656	50.0	
28 Methylene Chloride	84		4.166				ND	
33 Methyl tert-butyl ether	73		4.568				ND	
34 trans-1,2-Dichloroethene	96		4.592				ND	
37 1,1-Dichloroethane	63		5.245				ND	
42 2-Butanone (MEK)	43		6.019				ND	
43 cis-1,2-Dichloroethene	96		6.068				ND	7
49 Chlorobromomethane	128		6.397				ND	
52 Chloroform	83	6.549	6.549	0.000	71	2761	0.0320	
$ 53 Dibromofluoromethane (Surr)	113	6.763	6.757	0.006	93	423651	9.88	
54 1,1,1-Trichloroethane	97		6.781				ND	
57 Carbon tetrachloride	117		6.988				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.214	7.214	0.000	52	83136	10.6	
60 Benzene	78		7.244				ND	7
62 1,2-Dichloroethane	62		7.311				ND	
* 65 Fluorobenzene (IS)	96	7.653	7.653	0.000	99	1694687	10.0	
69 Trichloroethene	95	8.147	8.128	0.019	52	3171	0.0568	M
71 1,2-Dichloropropane	63		8.458				ND	
77 Dichlorobromomethane	83		8.799				ND	
81 cis-1,3-Dichloropropene	75		9.348				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.512				ND	
$ 84 Toluene-d8 (Surr)	98	9.659	9.658	0.001	94	1767658	10.5	
85 Toluene	92		9.732				ND	7
86 trans-1,3-Dichloropropene	75		9.988				ND	
106 1,1,2-Trichloroethane	97		10.195				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166		10.286				ND	7
109 2-Hexanone	43		10.402				ND	
111 Chlorodibromomethane	129		10.573				ND	
112 Ethylene Dibromide	107		10.683				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.116	11.109	0.007	86	1376677	10.0	
115 Chlorobenzene	112		11.140				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.219				ND	
118 Ethylbenzene	91		11.225				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.341				ND	7
120 o-Xylene	106		11.664				ND	
121 Styrene	104		11.682				ND	
122 Bromoform	173		11.841				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	92	664493	9.72	
127 1,1,2,2-Tetrachloroethane	83		12.207				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	94	759495	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

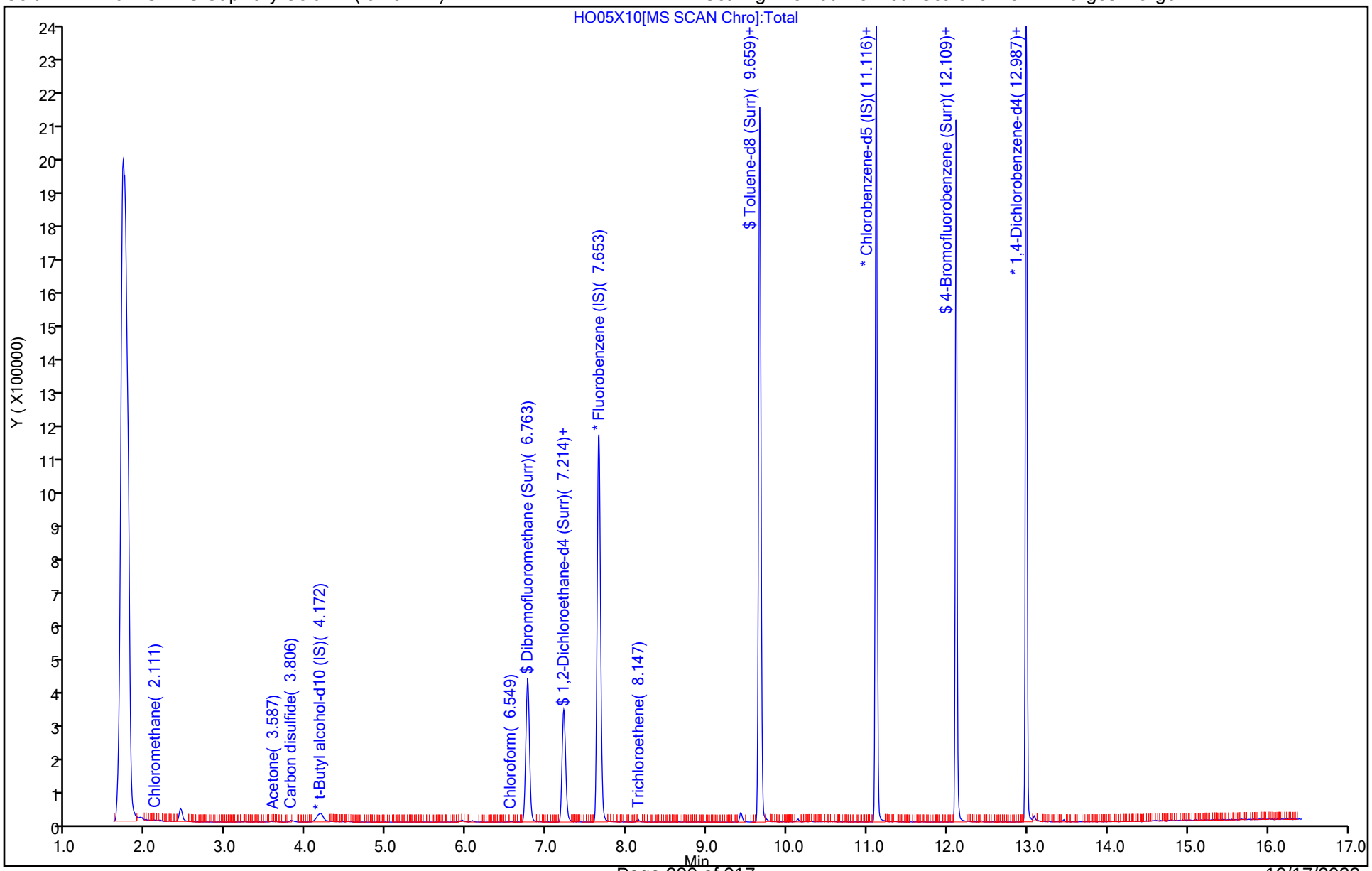
MSV_HP25_ISSS_00057 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 06-Oct-2022 14:03:22 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X10.D				
Injection Date:	05-Oct-2022 12:28:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	410-99372-A-1	Lab Sample ID:	410-99372-1	Worklist Smp#:	11
Client ID:	HD-COD-SW-6-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X10.D				
Lims ID:	410-99372-A-1				
Client ID:	HD-COD-SW-6-0/1-0				
Sample Type:	Client				
Inject. Date:	05-Oct-2022 12:28:30	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0067970-011				
Operator ID:	knk41612	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Oct-2022 14:03:21	Calib Date:	11-Jul-2022 18:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1671				

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:03:21

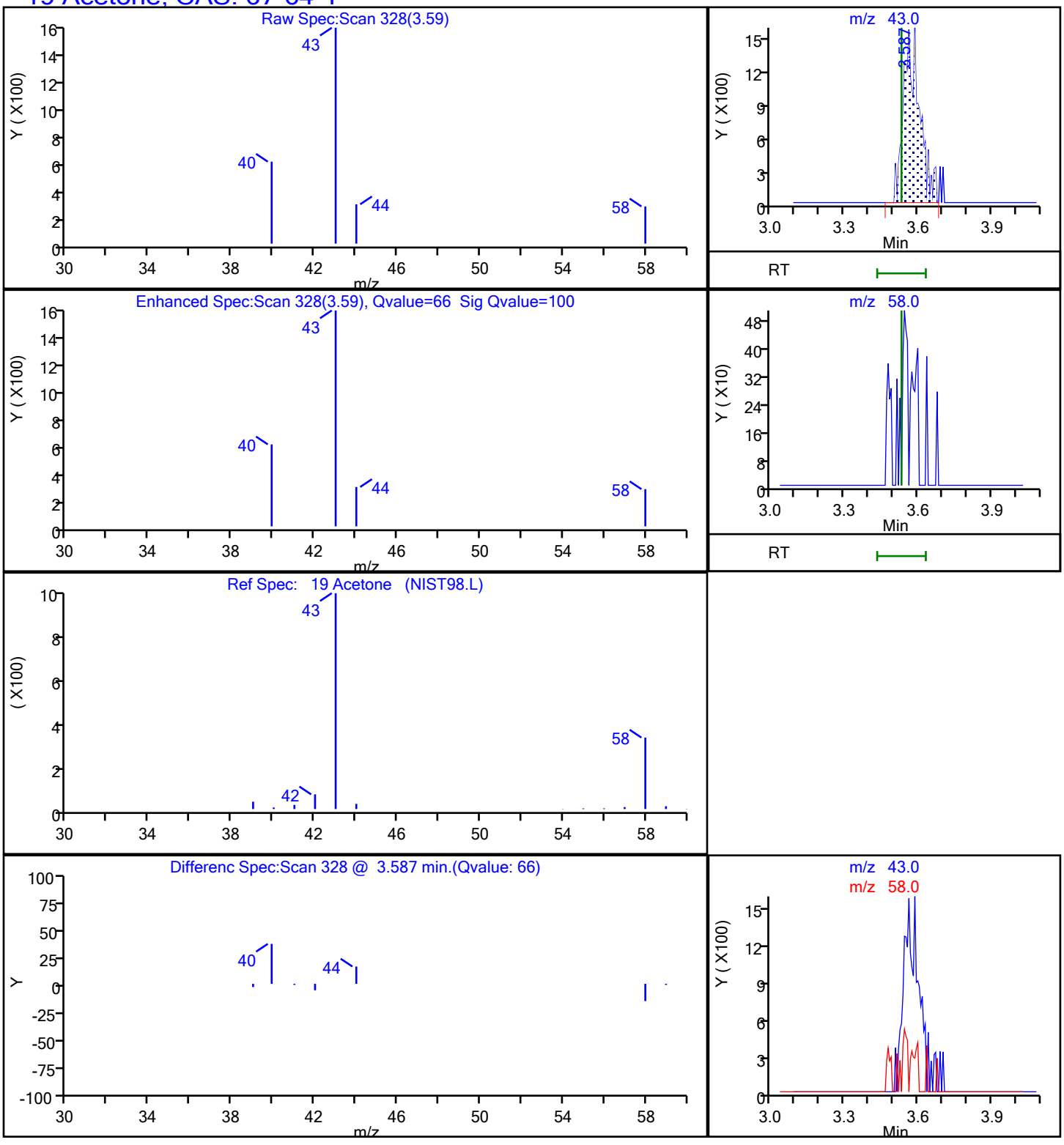
Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	9.88	98.77
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	106.22
$ 84 Toluene-d8 (Surr)	10.0	10.5	104.96
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.72	97.19

Report Date: 06-Oct-2022 14:03:22 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X10.D				
Injection Date:	05-Oct-2022 12:28:30	Instrument ID:	19094		
Lims ID:	410-99372-A-1	Lab Sample ID:	410-99372-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

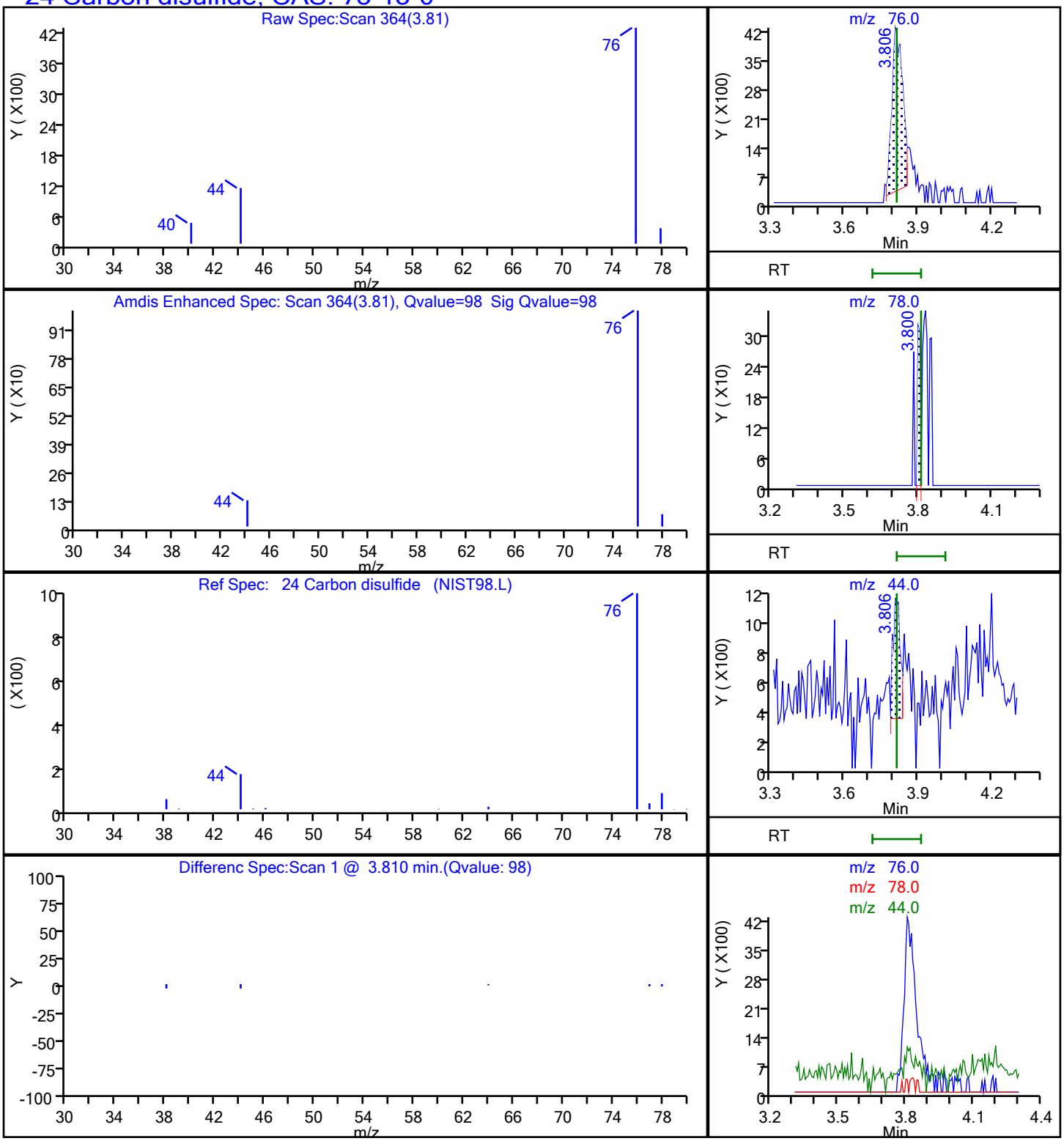
19 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X10.D				
Injection Date:	05-Oct-2022 12:28:30	Instrument ID:	19094		
Lims ID:	410-99372-A-1	Lab Sample ID:	410-99372-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

24 Carbon disulfide, CAS: 75-15-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

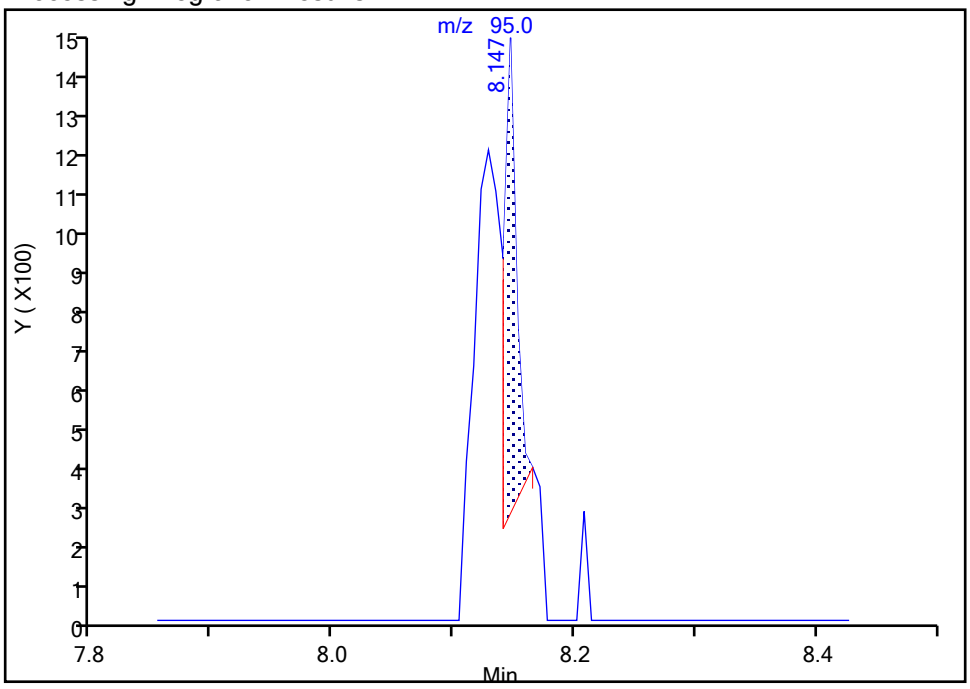
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X10.D				
Injection Date:	05-Oct-2022 12:28:30	Instrument ID:	19094		
Lims ID:	410-99372-A-1	Lab Sample ID:	410-99372-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

69 Trichloroethene, CAS: 79-01-6

Signal: 1

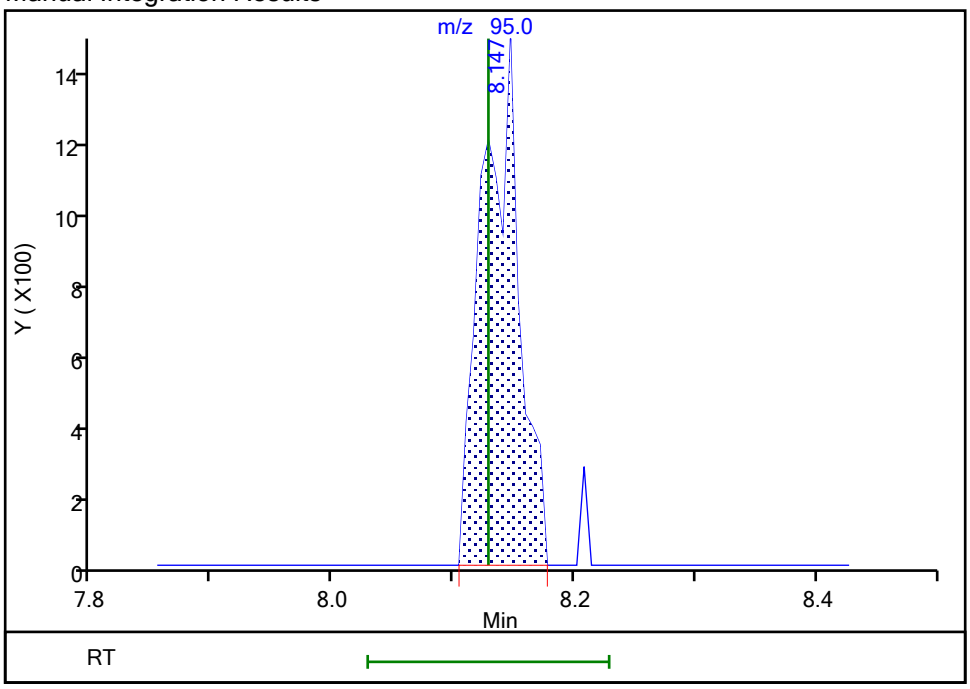
Processing Integration Results

RT: 8.15
Area: 875
Amount: 0.015685
Amount Units: ug/l



Manual Integration Results

RT: 8.15
Area: 3171
Amount: 0.056844
Amount Units: ug/l



Reviewer: pongsawatp, 06-Oct-2022 14:03:09

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.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-7-0/1-0 Lab Sample ID: 410-99372-2

Matrix: Water Lab File ID: HO05X11.D

Analysis Method: 8260D Date Collected: 09/23/2022 10:55

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 12:49

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 303234 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.2	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	0.17	J cn	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.087	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.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-7-0/1-0 Lab Sample ID: 410-99372-2

Matrix: Water Lab File ID: HO05X11.D

Analysis Method: 8260D Date Collected: 09/23/2022 10:55

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 12:49

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 303234 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)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		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\19094\20221005-67970.b\HO05X11.D
Lims ID: 410-99372-A-2
Client ID: HD-COD-SW-7-0/1-0
Sample Type: Client
Inject. Date: 05-Oct-2022 12:49:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0067970-012
Operator ID: knk41612 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2022 14:04:19 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:04:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.123	2.123	0.000	85	3473	0.0552	
7 Vinyl chloride	62		2.239				ND	
9 Bromomethane	94		2.575				ND	
10 Chloroethane	64		2.654				ND	
18 1,1-Dichloroethene	96		3.513				ND	
19 Acetone	43	3.580	3.532	0.048	94	7982	1.20	
24 Carbon disulfide	76	3.824	3.812	0.012	98	19504	0.1709	M
* 29 t-Butyl alcohol-d10 (IS)	65	4.178	4.166	0.012	19	104317	50.0	
28 Methylene Chloride	84		4.166				ND	
33 Methyl tert-butyl ether	73		4.568				ND	
34 trans-1,2-Dichloroethene	96		4.592				ND	
37 1,1-Dichloroethane	63		5.245				ND	
42 2-Butanone (MEK)	43		6.019				ND	7
43 cis-1,2-Dichloroethene	96	6.080	6.068	0.012	73	4513	0.0867	
49 Chlorobromomethane	128		6.397				ND	
52 Chloroform	83	6.549	6.549	0.000	91	6899	0.0826	
$ 53 Dibromofluoromethane (Surr)	113	6.769	6.757	0.012	94	415130	10.0	
54 1,1,1-Trichloroethane	97		6.781				ND	
57 Carbon tetrachloride	117		6.988				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.214	7.214	0.000	52	78847	10.4	
60 Benzene	78		7.244				ND	7
62 1,2-Dichloroethane	62		7.311				ND	
* 65 Fluorobenzene (IS)	96	7.653	7.653	0.000	99	1639719	10.0	
69 Trichloroethene	95	8.140	8.128	0.012	91	5525	0.1024	M
71 1,2-Dichloropropane	63		8.458				ND	
77 Dichlorobromomethane	83		8.799				ND	
81 cis-1,3-Dichloropropene	75		9.348				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.512				ND	7
$ 84 Toluene-d8 (Surr)	98	9.658	9.658	0.000	93	1696278	10.3	
85 Toluene	92	9.738	9.732	0.006	98	3860	0.0315	
86 trans-1,3-Dichloropropene	75		9.988				ND	
106 1,1,2-Trichloroethane	97		10.195				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.286	10.286	0.000	90	3049	0.0539	
109 2-Hexanone	43		10.402				ND	
111 Chlorodibromomethane	129		10.573				ND	
112 Ethylene Dibromide	107		10.683				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.115	11.109	0.006	85	1347834	10.0	
115 Chlorobenzene	112		11.140				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.219				ND	
118 Ethylbenzene	91		11.225				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.341				ND	7
120 o-Xylene	106		11.664				ND	7
121 Styrene	104		11.682				ND	7
122 Bromoform	173		11.841				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	92	640656	9.57	
127 1,1,2,2-Tetrachloroethane	83		12.207				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	95	732215	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_HP25_ISSS_00057 Amount Added: 1.00 Units: uL Run Reagent

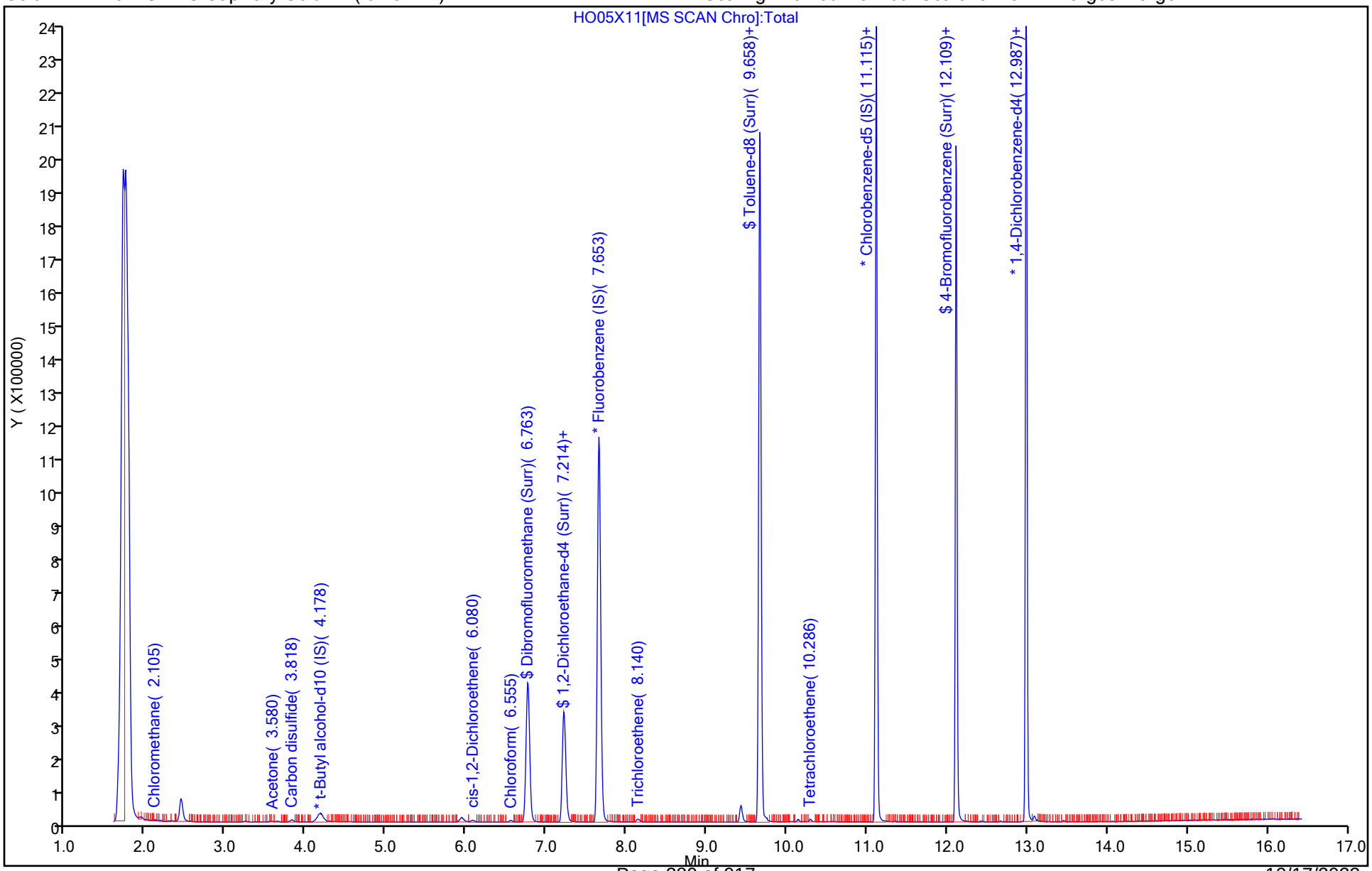
Report Date: 06-Oct-2022 14:04:19 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X11.D

Injection Date:	05-Oct-2022 12:49:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	410-99372-A-2	Lab Sample ID:	410-99372-2	Worklist Smp#:	12
Client ID:	HD-COD-SW-7-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X11.D				
Lims ID:	410-99372-A-2				
Client ID:	HD-COD-SW-7-0/1-0				
Sample Type:	Client				
Inject. Date:	05-Oct-2022 12:49:30	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0067970-012				
Operator ID:	knk41612	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Oct-2022 14:04:19	Calib Date:	11-Jul-2022 18:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1671				

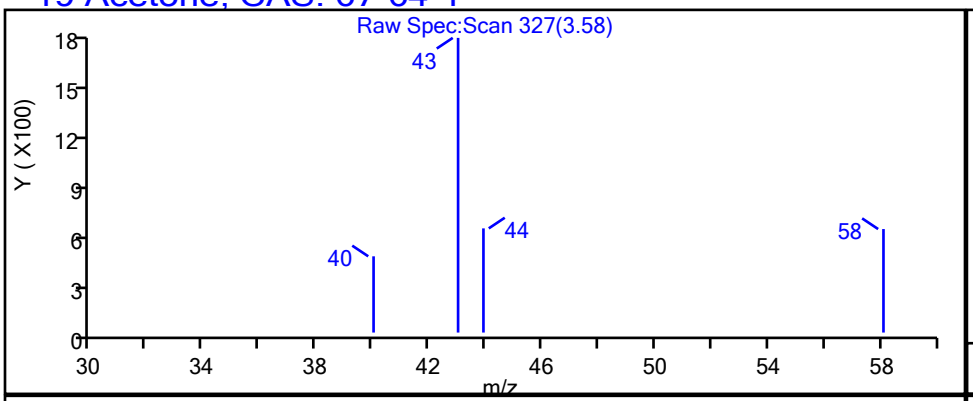
First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:04:19

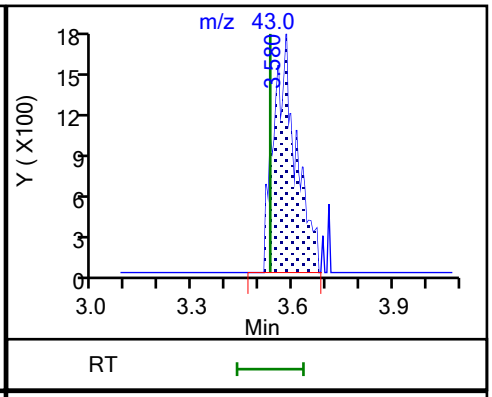
Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	10.0	100.03
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.11
$ 84 Toluene-d8 (Surr)	10.0	10.3	102.87
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.57	95.71

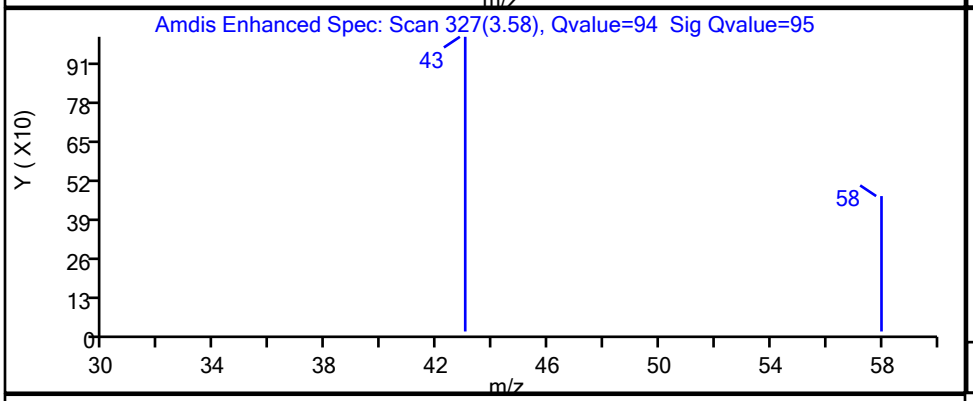
Eurofins Lancaster Laboratories Environment Testing, LLC

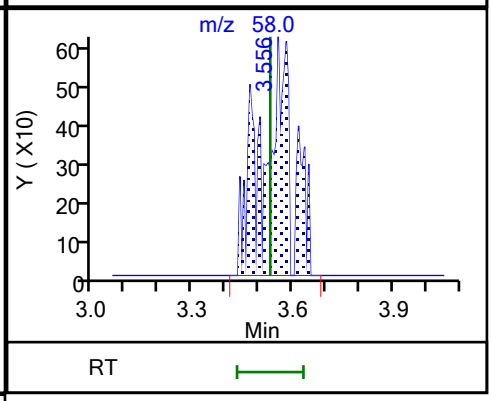
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X11.D				
Injection Date:	05-Oct-2022 12:49:30	Instrument ID:	19094		
Lims ID:	410-99372-A-2	Lab Sample ID:	410-99372-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

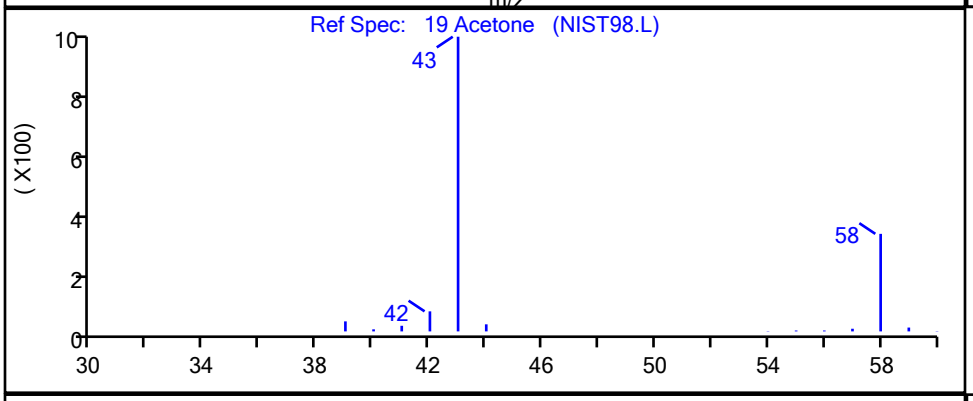
19 Acetone, CAS: 67-64-1

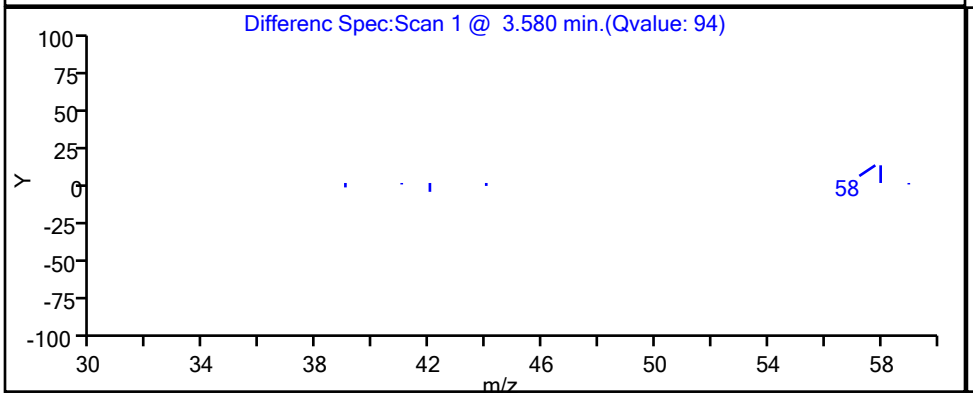


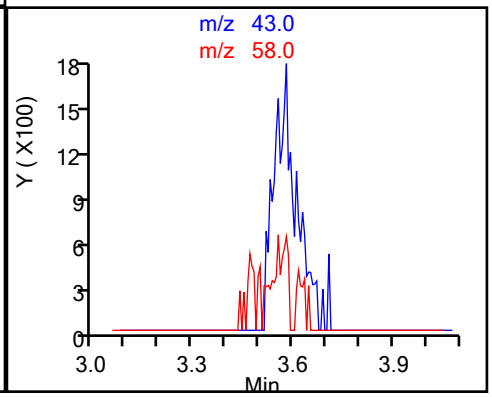








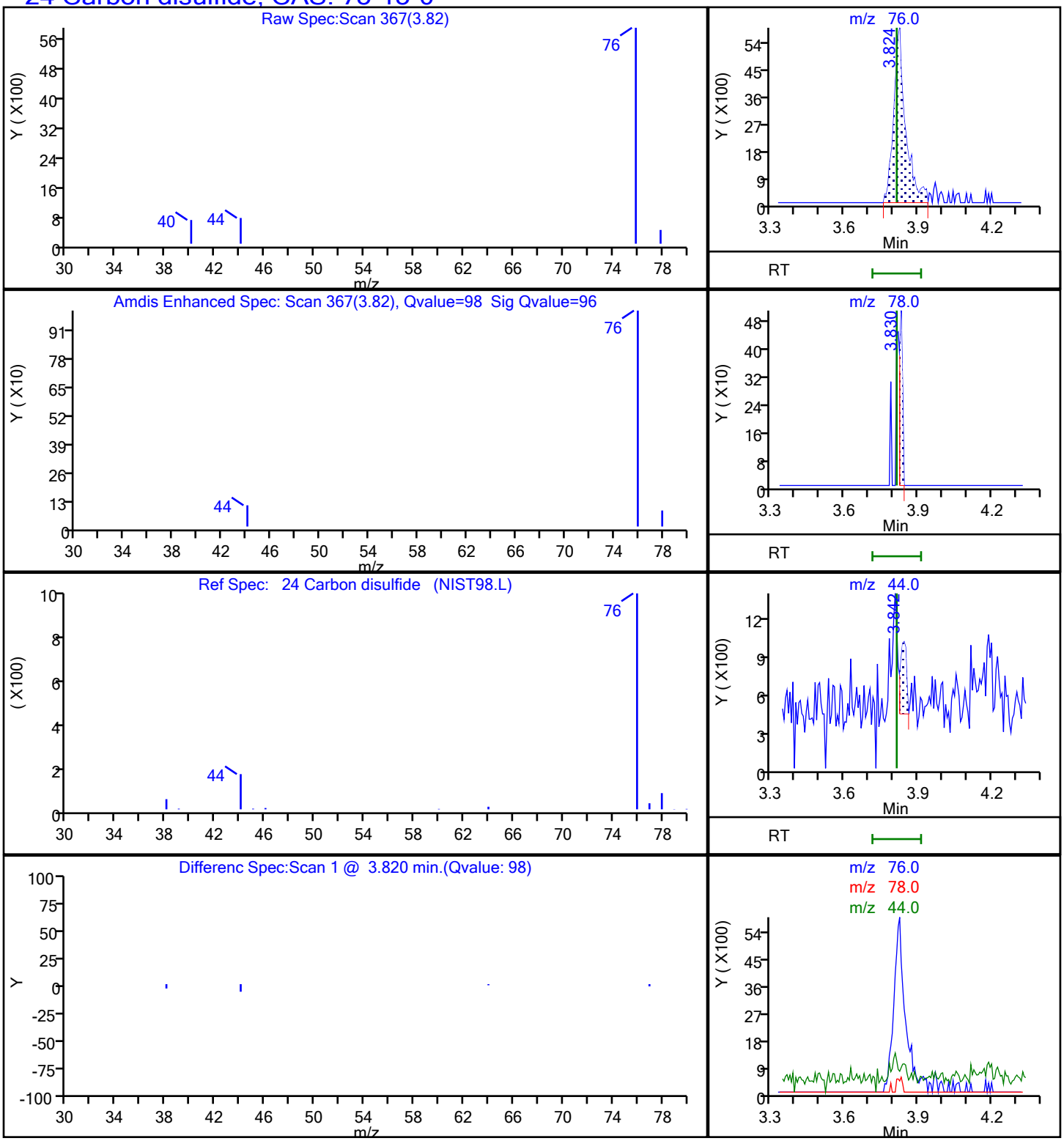




Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X11.D				
Injection Date:	05-Oct-2022 12:49:30	Instrument ID:	19094		
Lims ID:	410-99372-A-2	Lab Sample ID:	410-99372-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

24 Carbon disulfide, CAS: 75-15-0

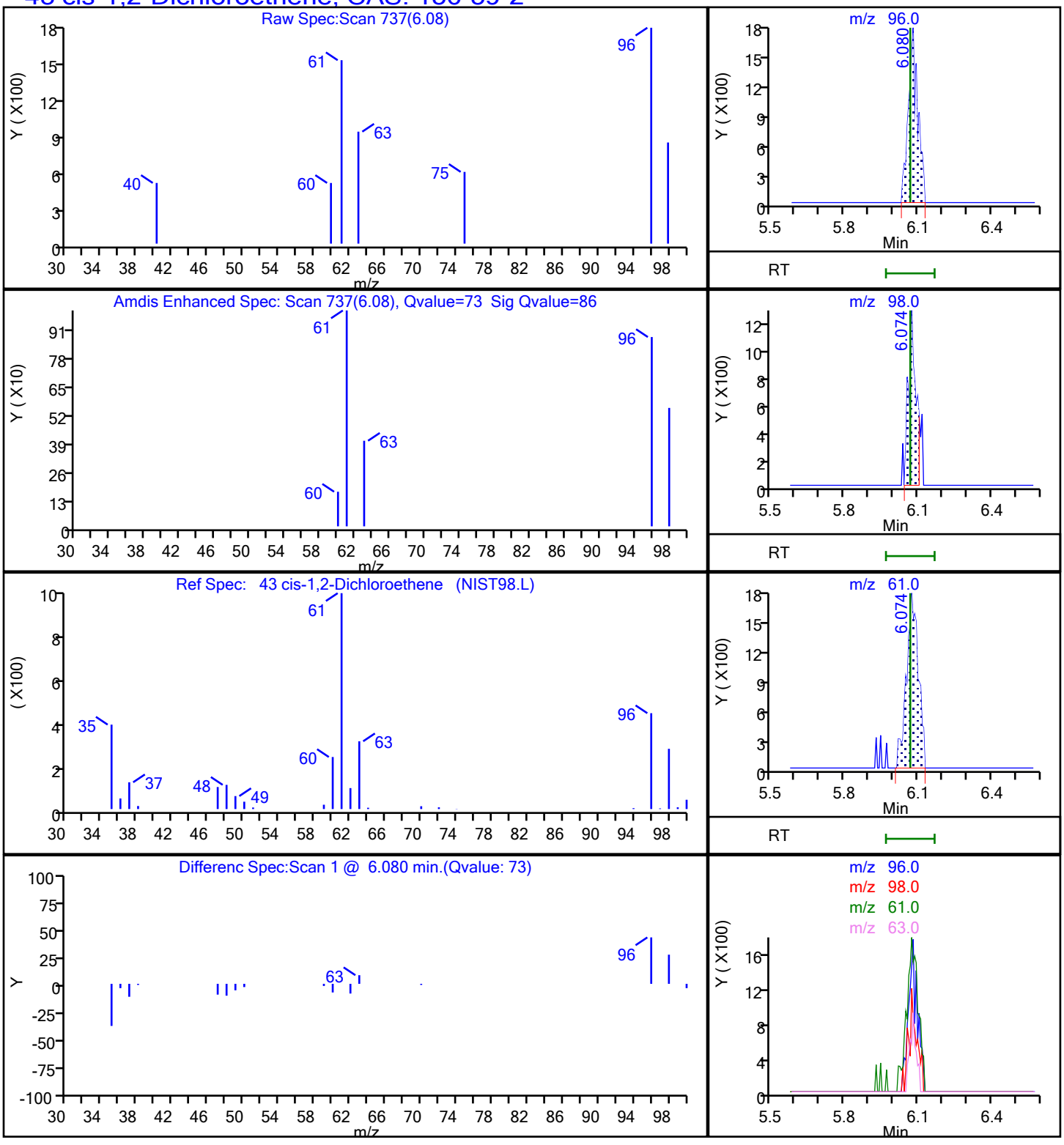


Report Date: 06-Oct-2022 14:04:19 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X11.D				
Injection Date:	05-Oct-2022 12:49:30	Instrument ID:	19094		
Lims ID:	410-99372-A-2	Lab Sample ID:	410-99372-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

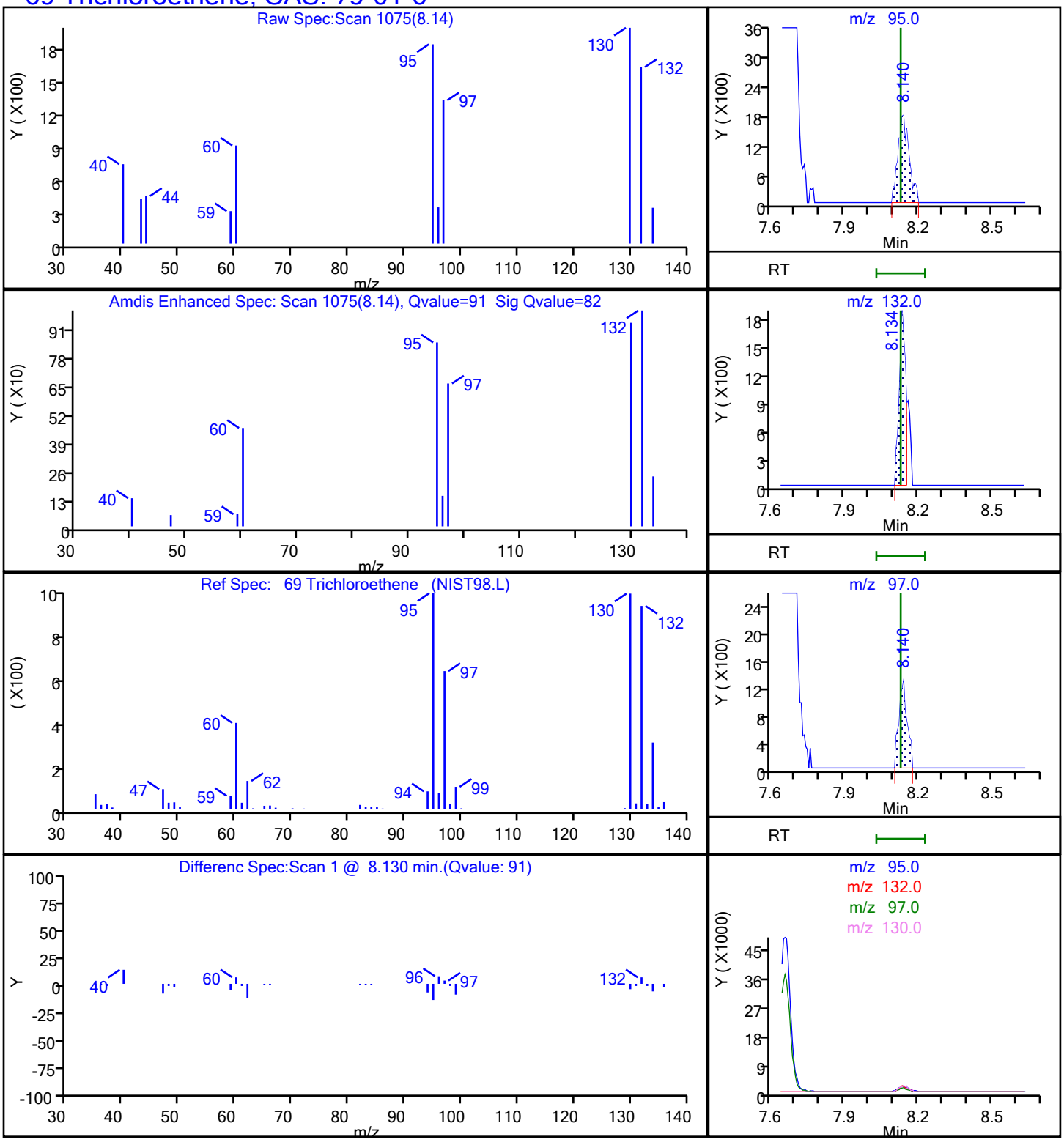


Report Date: 06-Oct-2022 14:04:19 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X11.D				
Injection Date:	05-Oct-2022 12:49:30	Instrument ID:	19094		
Lims ID:	410-99372-A-2	Lab Sample ID:	410-99372-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

69 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

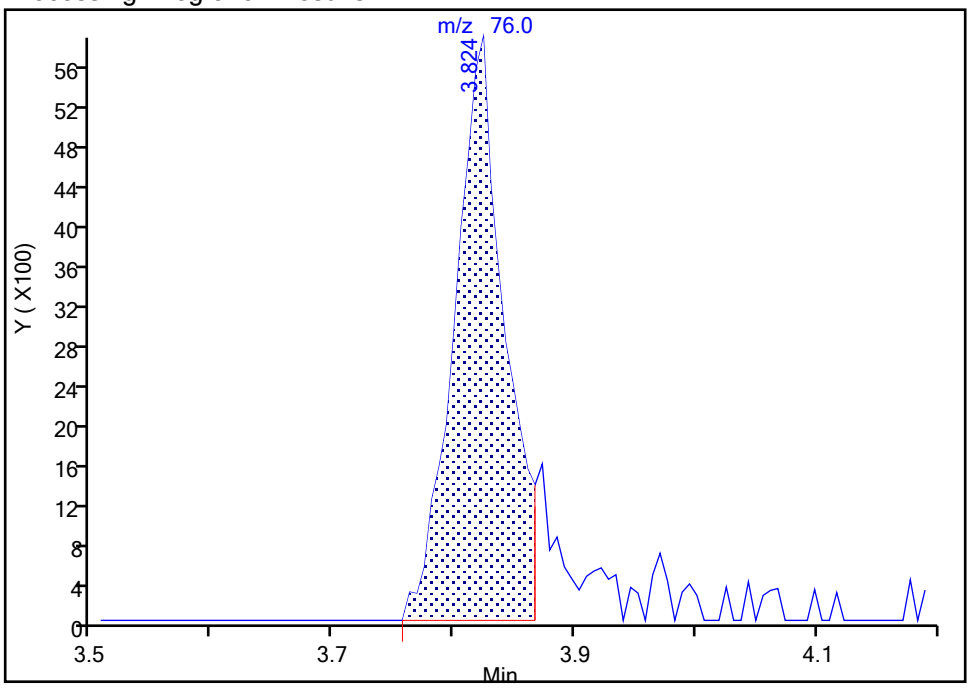
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X11.D				
Injection Date:	05-Oct-2022 12:49:30	Instrument ID:	19094		
Lims ID:	410-99372-A-2	Lab Sample ID:	410-99372-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

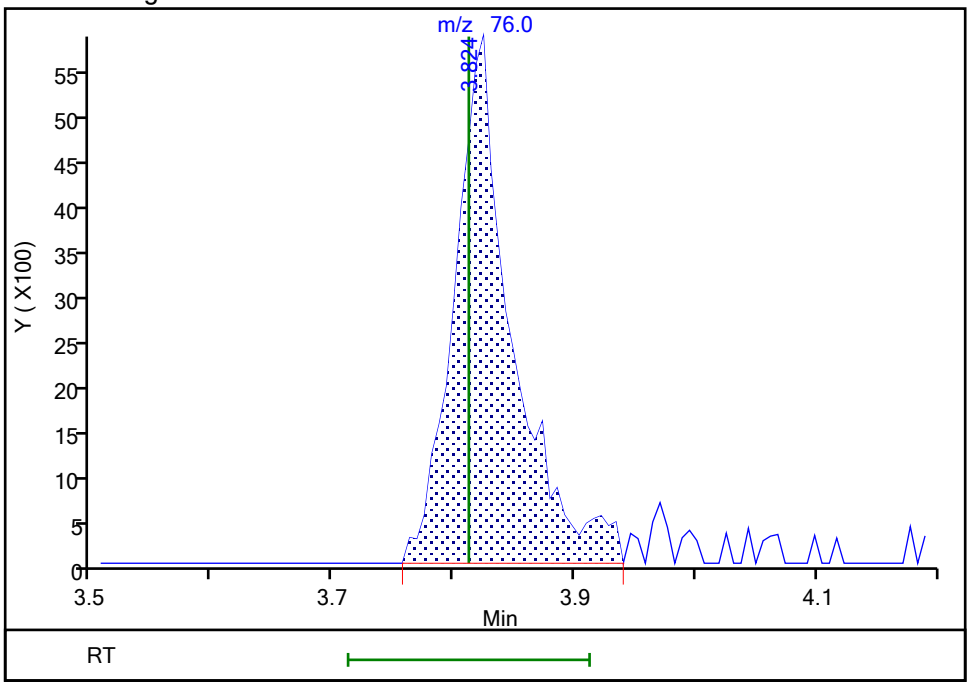
Processing Integration Results

RT: 3.82
Area: 17051
Amount: 0.149369
Amount Units: ug/l



Manual Integration Results

RT: 3.82
Area: 19504
Amount: 0.170858
Amount Units: ug/l



Reviewer: pongsawatp, 06-Oct-2022 14:03:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

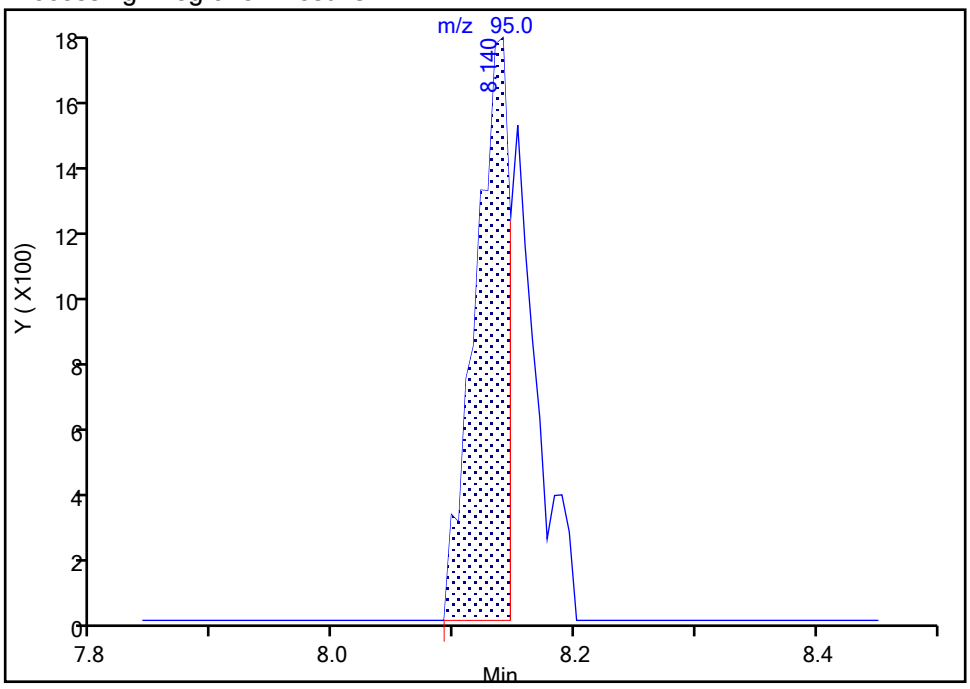
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X11.D				
Injection Date:	05-Oct-2022 12:49:30	Instrument ID:	19094		
Lims ID:	410-99372-A-2	Lab Sample ID:	410-99372-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

69 Trichloroethene, CAS: 79-01-6

Signal: 1

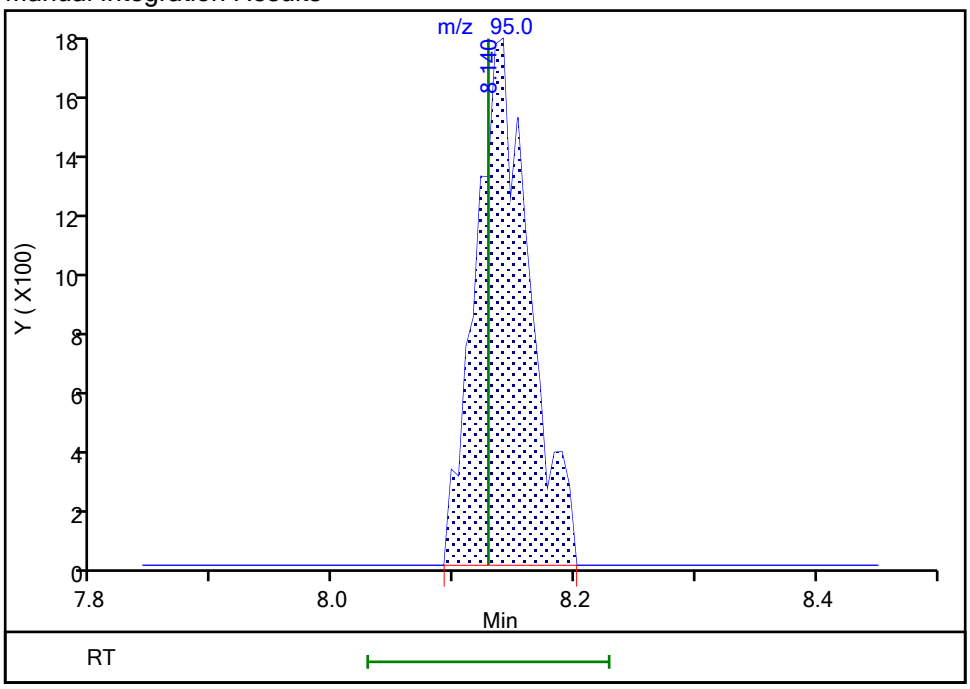
Processing Integration Results

RT: 8.14
Area: 3530
Amount: 0.065401
Amount Units: ug/l



Manual Integration Results

RT: 8.14
Area: 5525
Amount: 0.102362
Amount Units: ug/l



Reviewer: pongsawatp, 06-Oct-2022 14:04:07
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.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-8-0/1-0 Lab Sample ID: 410-99372-3

Matrix: Water Lab File ID: HO05X12.D

Analysis Method: 8260D Date Collected: 09/23/2022 09:00

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 13:09

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 303234 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.3	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	0.14	J cn	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.14	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.51		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.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-8-0/1-0 Lab Sample ID: 410-99372-3

Matrix: Water Lab File ID: HO05X12.D

Analysis Method: 8260D Date Collected: 09/23/2022 09:00

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 13:09

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 303234 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)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		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\19094\20221005-67970.b\HO05X12.D
Lims ID: 410-99372-A-3
Client ID: HD-COD-SW-8-0/1-0
Sample Type: Client
Inject. Date: 05-Oct-2022 13:09:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0067970-013
Operator ID: knk41612 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2022 14:05:03 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:05:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.123	2.123	0.000	92	5471	0.0868	
7 Vinyl chloride	62		2.239				ND	7
9 Bromomethane	94		2.575				ND	
10 Chloroethane	64		2.654				ND	
18 1,1-Dichloroethene	96		3.513				ND	
19 Acetone	43	3.568	3.532	0.036	65	8366	1.30	
24 Carbon disulfide	76	3.818	3.812	0.006	98	16193	0.1416	M
* 29 t-Butyl alcohol-d10 (IS)	65	4.178	4.166	0.012	26	100936	50.0	
28 Methylene Chloride	84		4.166				ND	
33 Methyl tert-butyl ether	73		4.568				ND	
34 trans-1,2-Dichloroethene	96		4.592				ND	
37 1,1-Dichloroethane	63		5.245				ND	7
42 2-Butanone (MEK)	43		6.019				ND	7
43 cis-1,2-Dichloroethene	96	6.080	6.068	0.012	76	7089	0.1360	
49 Chlorobromomethane	128		6.397				ND	
52 Chloroform	83	6.561	6.549	0.012	90	4728	0.0565	
$ 53 Dibromofluoromethane (Surr)	113	6.763	6.757	0.006	94	412079	9.91	
54 1,1,1-Trichloroethane	97	6.769	6.781	-0.012	56	2511	0.0322	
57 Carbon tetrachloride	117		6.988				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.220	7.214	0.006	52	77326	10.2	
60 Benzene	78		7.244				ND	7
62 1,2-Dichloroethane	62		7.311				ND	
* 65 Fluorobenzene (IS)	96	7.653	7.653	0.000	99	1642757	10.0	
69 Trichloroethene	95	8.134	8.128	0.006	93	6447	0.1192	
71 1,2-Dichloropropane	63		8.458				ND	
77 Dichlorobromomethane	83		8.799				ND	
81 cis-1,3-Dichloropropene	75		9.348				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.512				ND	
$ 84 Toluene-d8 (Surr)	98	9.658	9.658	0.000	93	1723826	10.5	
85 Toluene	92	9.738	9.732	0.006	97	5069	0.0417	
86 trans-1,3-Dichloropropene	75		9.988				ND	
106 1,1,2-Trichloroethane	97		10.195				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.286	10.286	0.000	95	28425	0.5060	
109 2-Hexanone	43		10.402				ND	
111 Chlorodibromomethane	129		10.573				ND	
112 Ethylene Dibromide	107		10.683				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.115	11.109	0.006	86	1338699	10.0	
115 Chlorobenzene	112		11.140				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.219				ND	
118 Ethylbenzene	91		11.225				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.341				ND	7
120 o-Xylene	106		11.664				ND	7
121 Styrene	104		11.682				ND	
122 Bromoform	173		11.841				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	92	640816	9.64	
127 1,1,2,2-Tetrachloroethane	83		12.207				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	95	734111	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

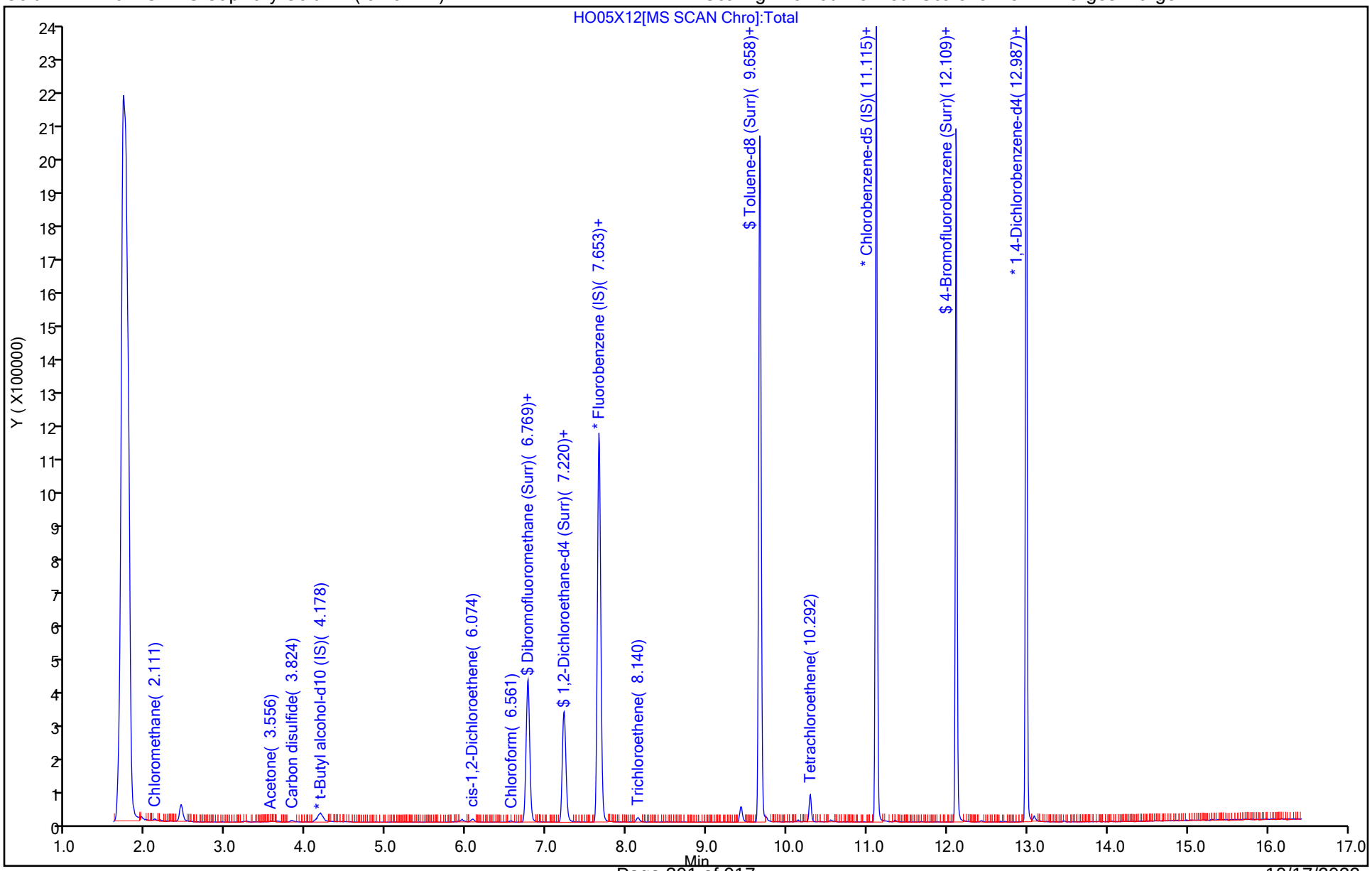
MSV_HP25_ISSS_00057 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 06-Oct-2022 14:05:04 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X12.D				
Injection Date:	05-Oct-2022 13:09:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	410-99372-A-3	Lab Sample ID:	410-99372-3	Worklist Smp#:	13
Client ID:	HD-COD-SW-8-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X12.D				
Lims ID:	410-99372-A-3				
Client ID:	HD-COD-SW-8-0/1-0				
Sample Type:	Client				
Inject. Date:	05-Oct-2022 13:09:30	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0067970-013				
Operator ID:	knk41612	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Oct-2022 14:05:03	Calib Date:	11-Jul-2022 18:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1671				

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:05:03

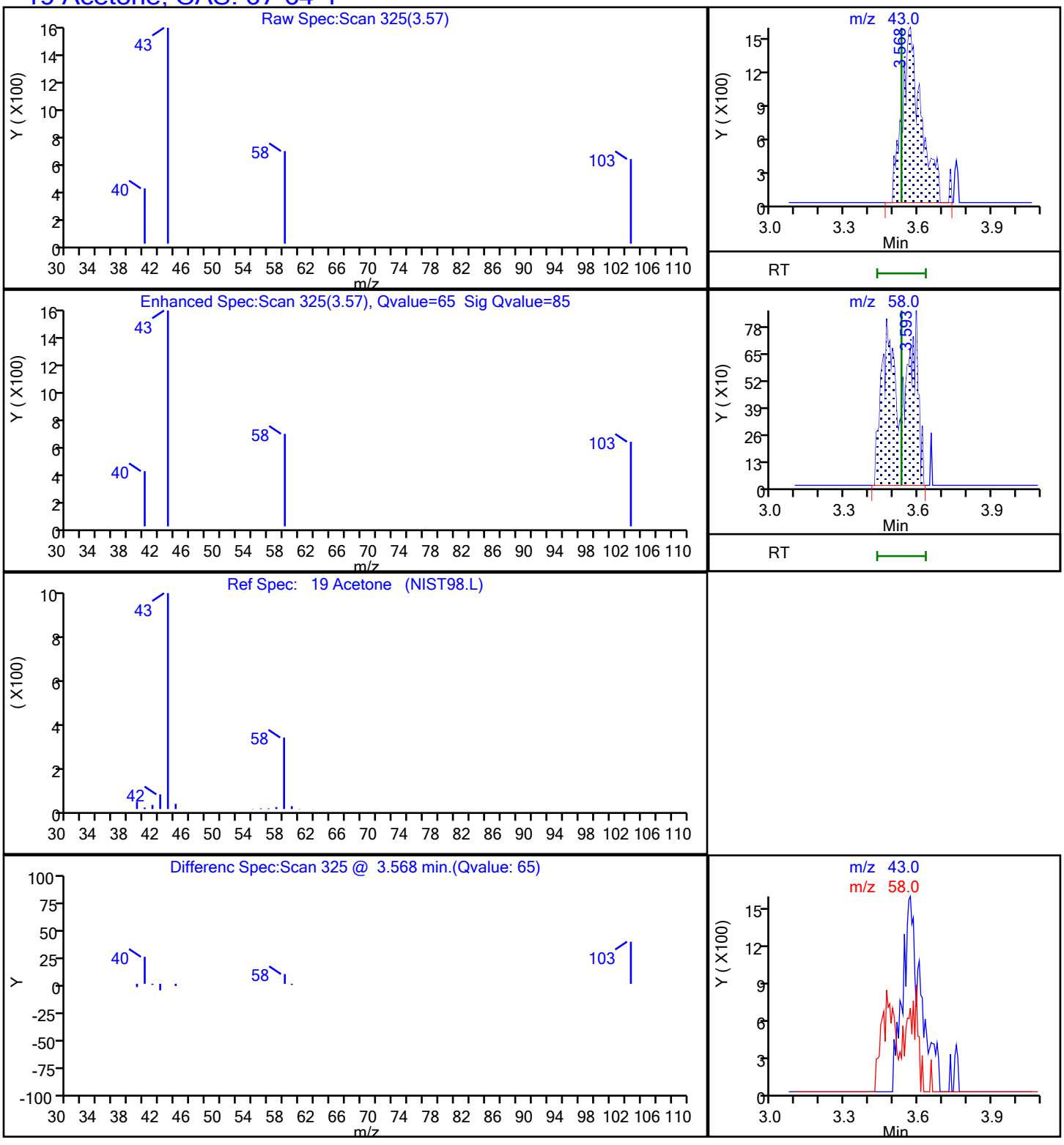
Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	9.91	99.11
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	101.92
$ 84 Toluene-d8 (Surr)	10.0	10.5	105.26
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.64	96.38

Report Date: 06-Oct-2022 14:05:04 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X12.D				
Injection Date:	05-Oct-2022 13:09:30	Instrument ID:	19094		
Lims ID:	410-99372-A-3	Lab Sample ID:	410-99372-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

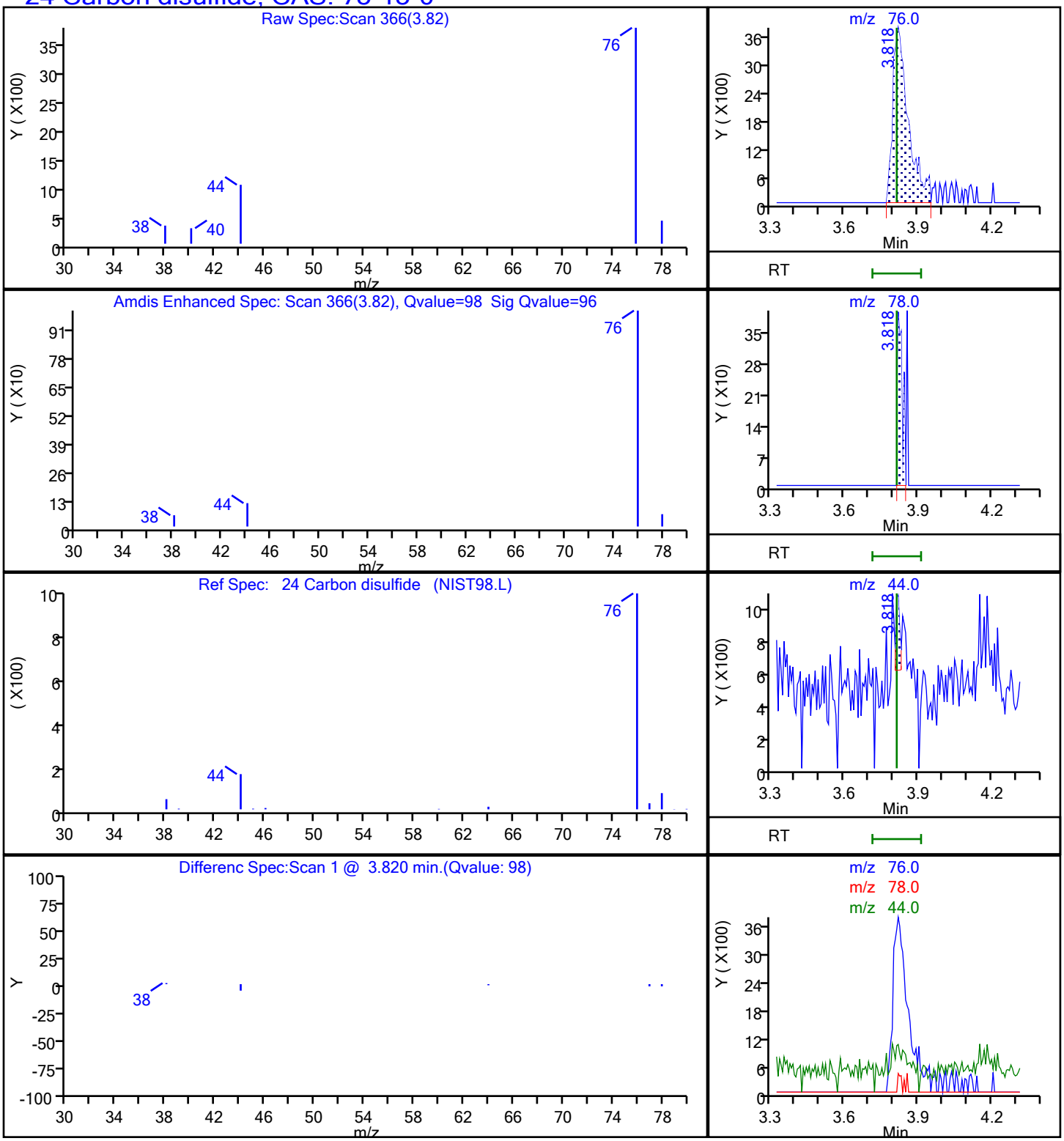
19 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X12.D				
Injection Date:	05-Oct-2022 13:09:30	Instrument ID:	19094		
Lims ID:	410-99372-A-3	Lab Sample ID:	410-99372-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

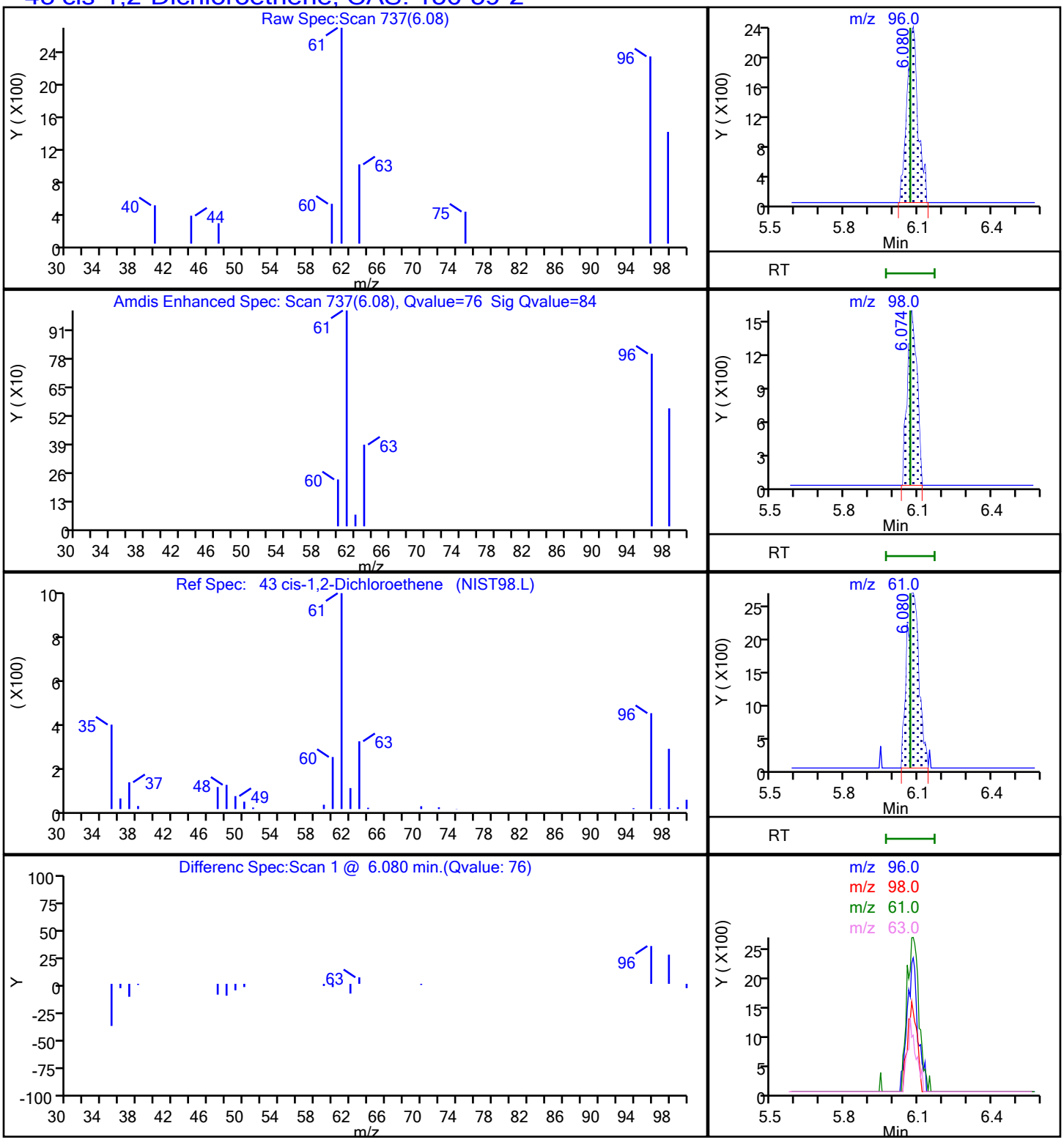
24 Carbon disulfide, CAS: 75-15-0



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X12.D				
Injection Date:	05-Oct-2022 13:09:30	Instrument ID:	19094		
Lims ID:	410-99372-A-3	Lab Sample ID:	410-99372-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

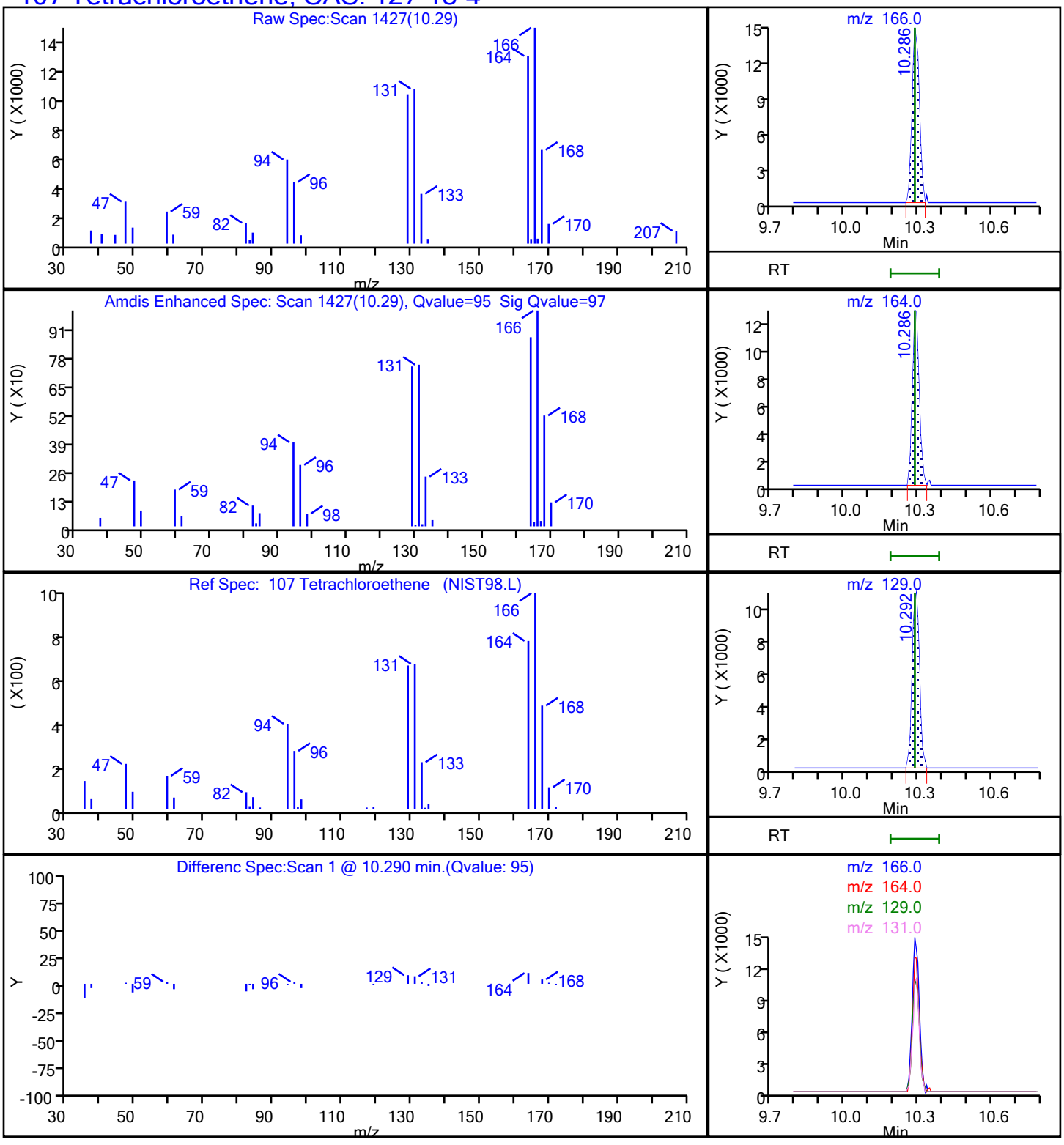


Report Date: 06-Oct-2022 14:05:04 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X12.D				
Injection Date:	05-Oct-2022 13:09:30	Instrument ID:	19094		
Lims ID:	410-99372-A-3	Lab Sample ID:	410-99372-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

107 Tetrachloroethene, CAS: 127-18-4

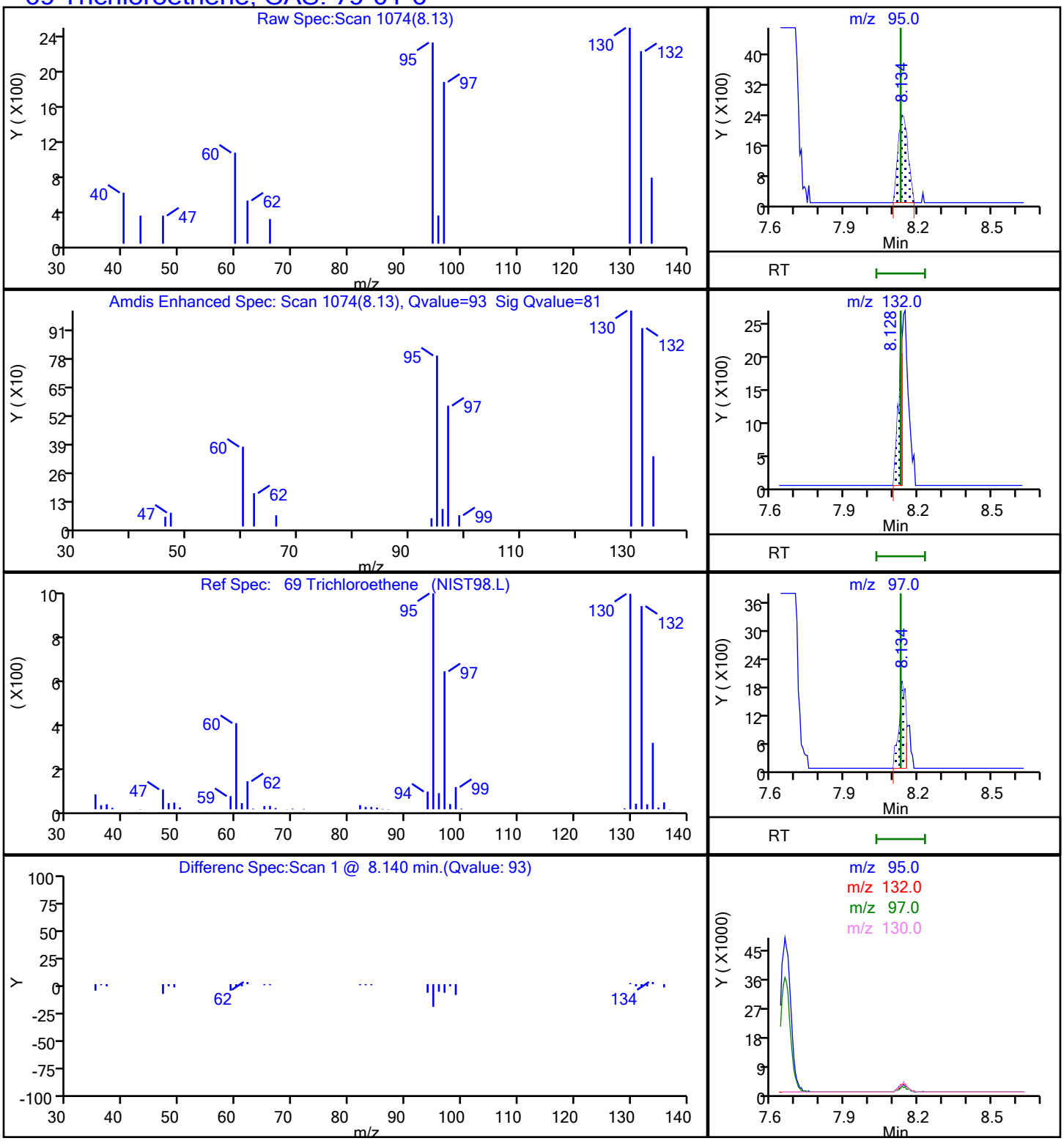


Report Date: 06-Oct-2022 14:05:04 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X12.D				
Injection Date:	05-Oct-2022 13:09:30	Instrument ID:	19094		
Lims ID:	410-99372-A-3	Lab Sample ID:	410-99372-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

69 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

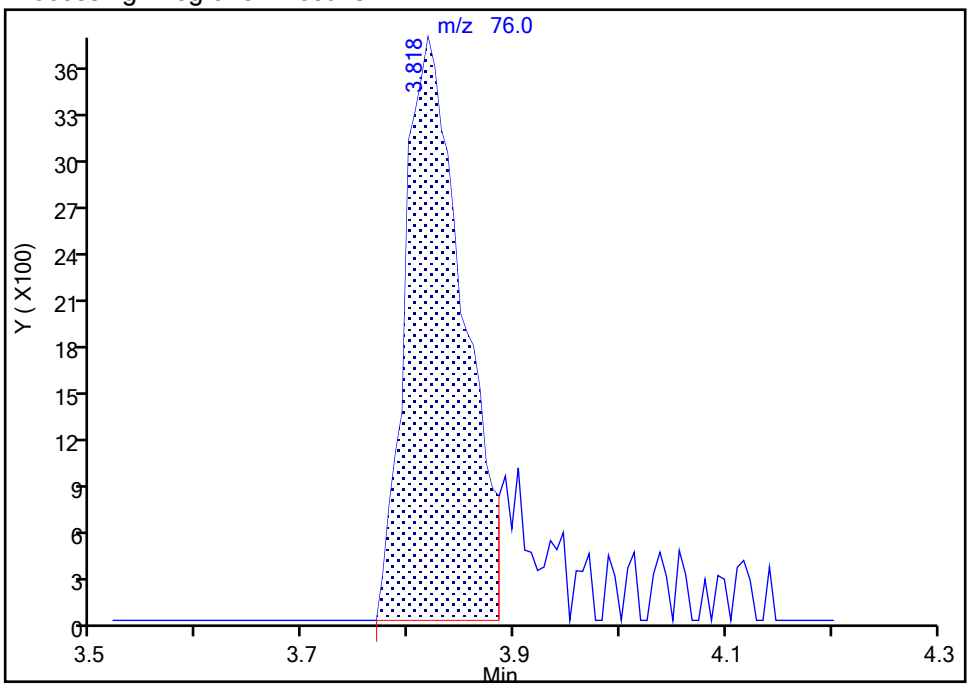
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X12.D				
Injection Date:	05-Oct-2022 13:09:30	Instrument ID:	19094		
Lims ID:	410-99372-A-3	Lab Sample ID:	410-99372-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

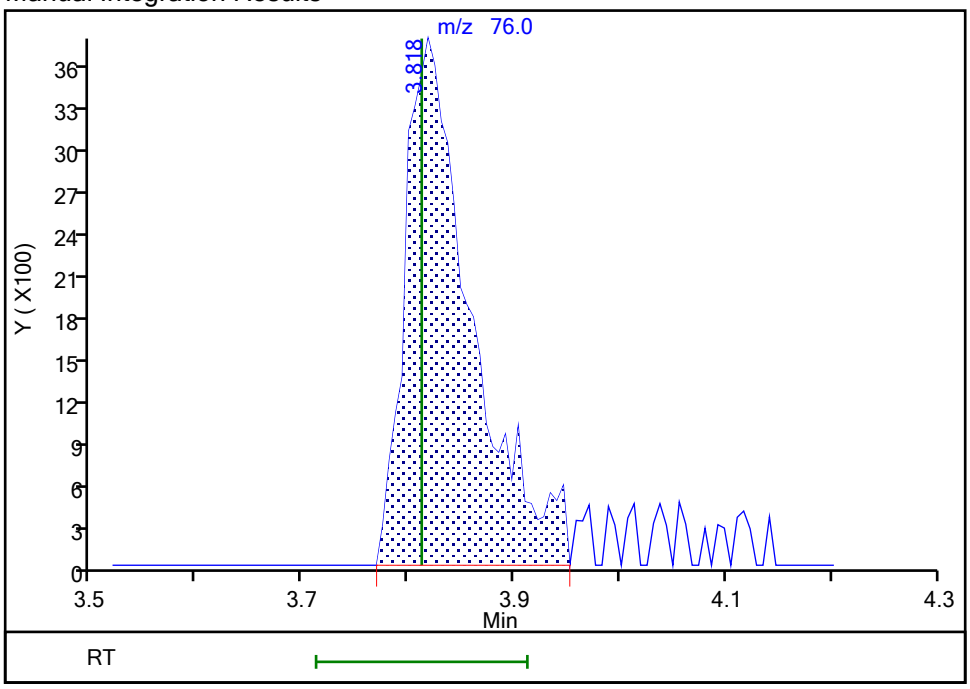
Processing Integration Results

RT: 3.82
Area: 14170
Amount: 0.123902
Amount Units: ug/l



Manual Integration Results

RT: 3.82
Area: 16193
Amount: 0.141591
Amount Units: ug/l



Reviewer: pongsawatp, 06-Oct-2022 14:04:39

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.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-9-0/1-0 Lab Sample ID: 410-99372-4

Matrix: Water Lab File ID: HO05X13.D

Analysis Method: 8260D Date Collected: 09/23/2022 12:20

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 13:29

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.: 303234 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	2.3	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	0.14	J cn	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.083	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	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-9-0/1-0 Lab Sample ID: 410-99372-4

Matrix: Water Lab File ID: HO05X13.D

Analysis Method: 8260D Date Collected: 09/23/2022 12:20

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 13:29

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.: 303234 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	0.086	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		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\19094\20221005-67970.b\HO05X13.D
Lims ID: 410-99372-A-4
Client ID: HD-COD-SW-9-0/1-0
Sample Type: Client
Inject. Date: 05-Oct-2022 13:29:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0067970-014
Operator ID: knk41612 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2022 14:05:03 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:05:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.123	2.123	0.000	94	2562	0.0402	
7 Vinyl chloride	62		2.239				ND	
9 Bromomethane	94		2.575				ND	
10 Chloroethane	64		2.654				ND	
18 1,1-Dichloroethene	96		3.513				ND	
19 Acetone	43	3.568	3.532	0.036	96	13987	2.27	
24 Carbon disulfide	76	3.824	3.812	0.012	99	16108	0.1395	
* 29 t-Butyl alcohol-d10 (IS)	65	4.172	4.166	0.006	27	96443	50.0	
28 Methylene Chloride	84		4.166				ND	
33 Methyl tert-butyl ether	73		4.568				ND	
34 trans-1,2-Dichloroethene	96		4.592				ND	
37 1,1-Dichloroethane	63		5.245				ND	
42 2-Butanone (MEK)	43		6.019				ND	7
43 cis-1,2-Dichloroethene	96	6.080	6.068	0.012	76	4371	0.0830	
49 Chlorobromomethane	128		6.397				ND	
52 Chloroform	83	6.549	6.549	0.000	90	5380	0.0636	
$ 53 Dibromofluoromethane (Surr)	113	6.763	6.757	0.006	94	411348	9.80	
54 1,1,1-Trichloroethane	97		6.781				ND	7
57 Carbon tetrachloride	117		6.988				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.220	7.214	0.006	53	81049	10.6	
60 Benzene	78		7.244				ND	7
62 1,2-Dichloroethane	62		7.311				ND	7
* 65 Fluorobenzene (IS)	96	7.653	7.653	0.000	99	1659190	10.0	
69 Trichloroethene	95	8.134	8.128	0.006	94	4705	0.0861	
71 1,2-Dichloropropane	63		8.458				ND	
77 Dichlorobromomethane	83		8.799				ND	
81 cis-1,3-Dichloropropene	75		9.348				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.512				ND	7
$ 84 Toluene-d8 (Surr)	98	9.658	9.658	0.000	93	1714647	10.3	
85 Toluene	92	9.744	9.732	0.012	95	3911	0.0317	
86 trans-1,3-Dichloropropene	75		9.988				ND	
106 1,1,2-Trichloroethane	97		10.195				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.298	10.286	0.012	97	12064	0.2115	
109 2-Hexanone	43		10.402				ND	
111 Chlorodibromomethane	129		10.573				ND	
112 Ethylene Dibromide	107		10.683				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.115	11.109	0.006	85	1359085	10.0	
115 Chlorobenzene	112		11.140				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.219				ND	
118 Ethylbenzene	91		11.225				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.341				ND	7
120 o-Xylene	106		11.664				ND	7
121 Styrene	104		11.682				ND	7
122 Bromoform	173		11.841				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	91	656839	9.73	
127 1,1,2,2-Tetrachloroethane	83		12.207				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	95	745782	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

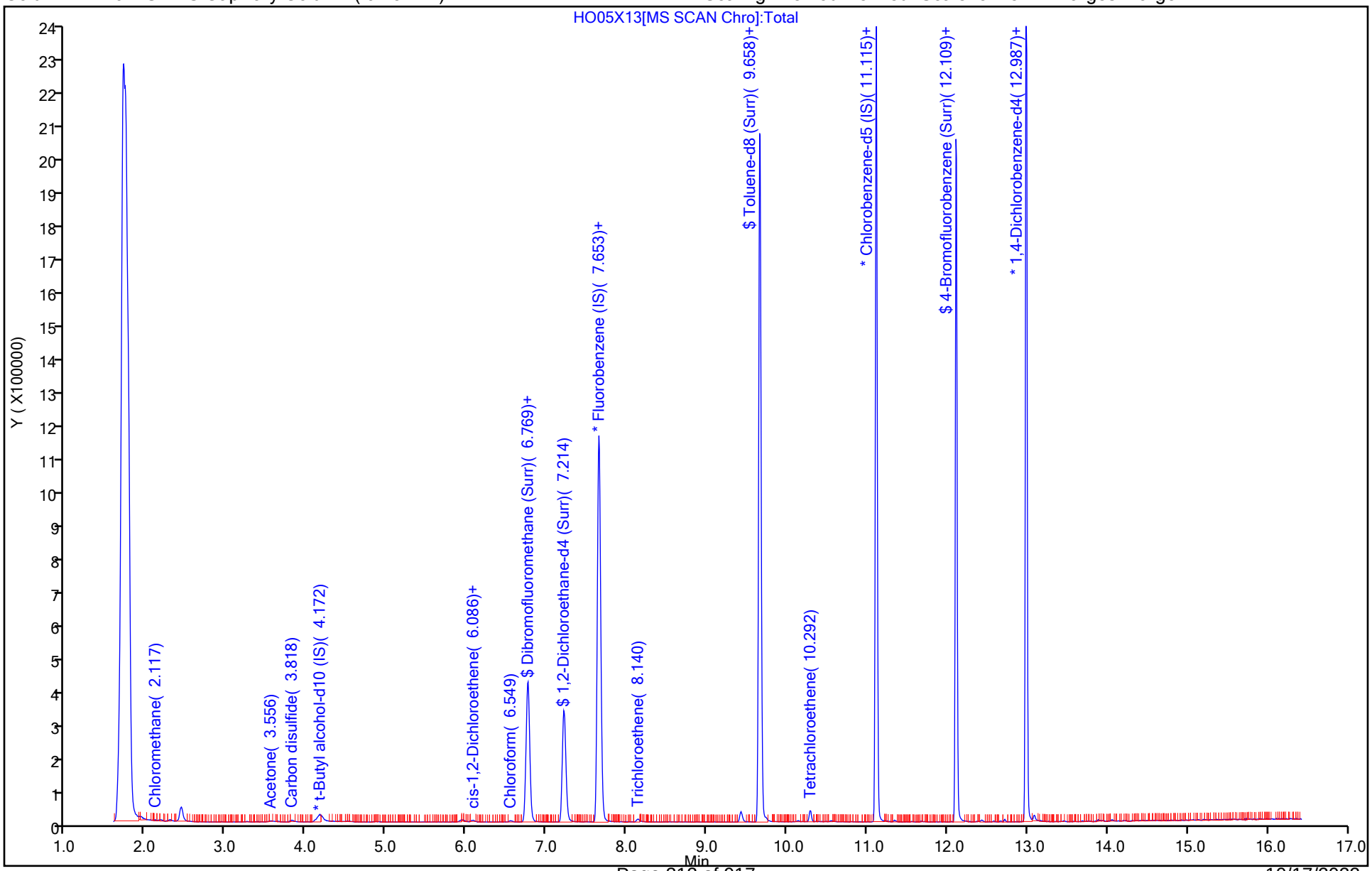
MSV_HP25_ISSS_00057 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 06-Oct-2022 14:05:33 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X13.D				
Injection Date:	05-Oct-2022 13:29:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	410-99372-A-4	Lab Sample ID:	410-99372-4	Worklist Smp#:	14
Client ID:	HD-COD-SW-9-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X13.D				
Lims ID:	410-99372-A-4				
Client ID:	HD-COD-SW-9-0/1-0				
Sample Type:	Client				
Inject. Date:	05-Oct-2022 13:29:30	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0067970-014				
Operator ID:	knk41612	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Oct-2022 14:05:03	Calib Date:	11-Jul-2022 18:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1671				

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:05:33

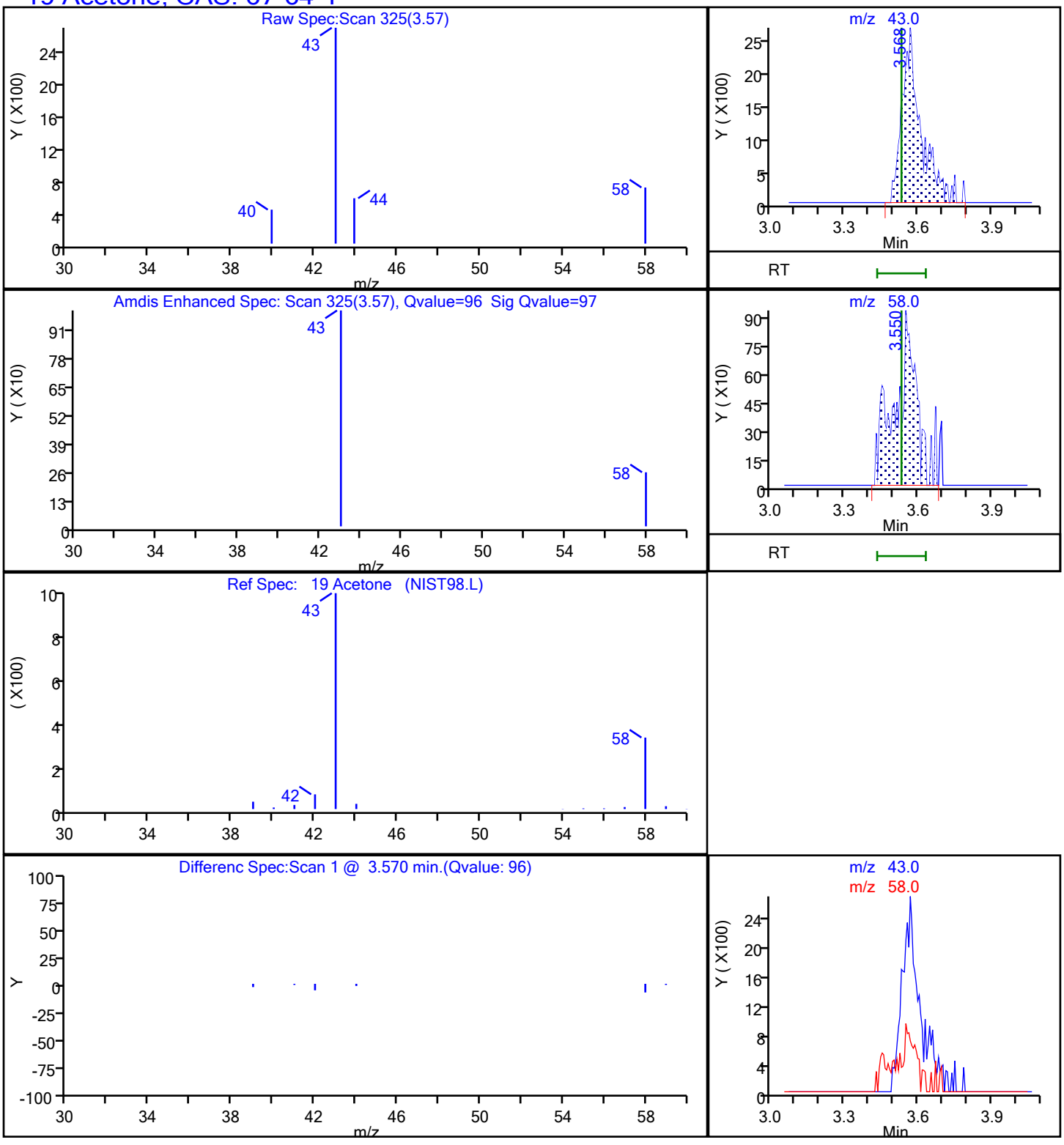
Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	9.80	97.95
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.77
$ 84 Toluene-d8 (Surr)	10.0	10.3	103.13
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.73	97.31

Report Date: 06-Oct-2022 14:05:33 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X13.D				
Injection Date:	05-Oct-2022 13:29:30	Instrument ID:	19094		
Lims ID:	410-99372-A-4	Lab Sample ID:	410-99372-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

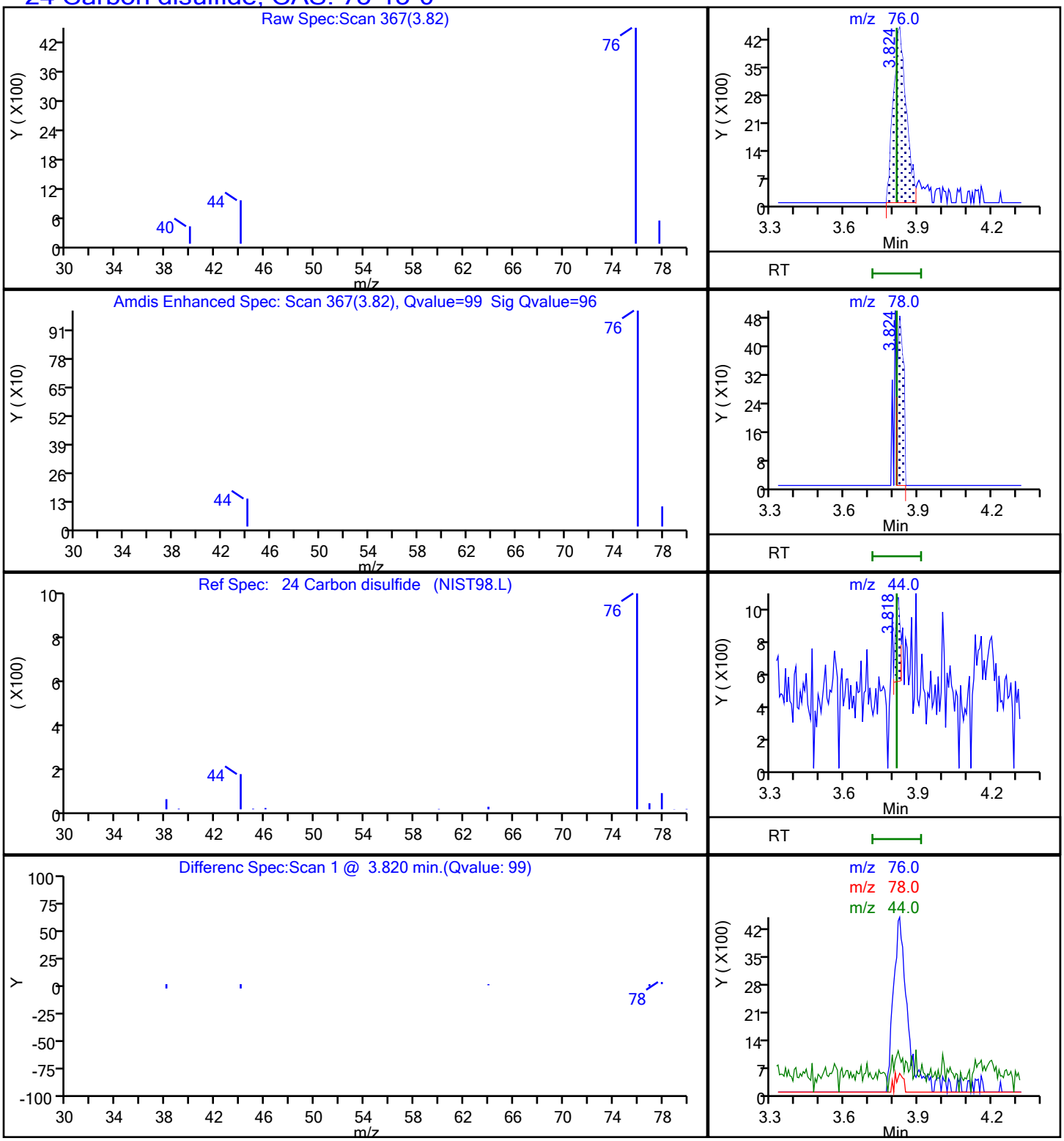
19 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X13.D				
Injection Date:	05-Oct-2022 13:29:30	Instrument ID:	19094		
Lims ID:	410-99372-A-4	Lab Sample ID:	410-99372-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

24 Carbon disulfide, CAS: 75-15-0

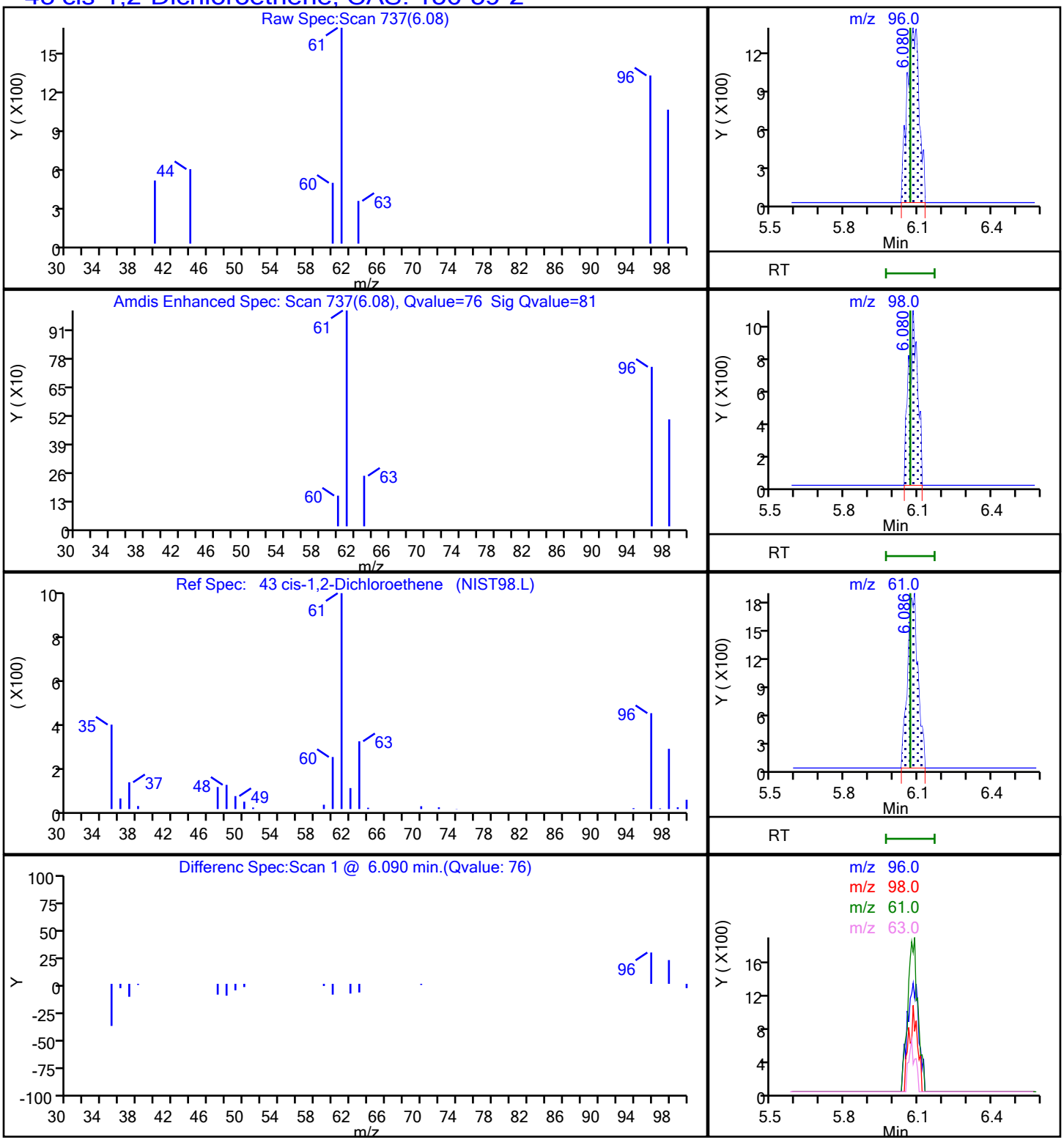


Report Date: 06-Oct-2022 14:05:33 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X13.D				
Injection Date:	05-Oct-2022 13:29:30	Instrument ID:	19094		
Lims ID:	410-99372-A-4	Lab Sample ID:	410-99372-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

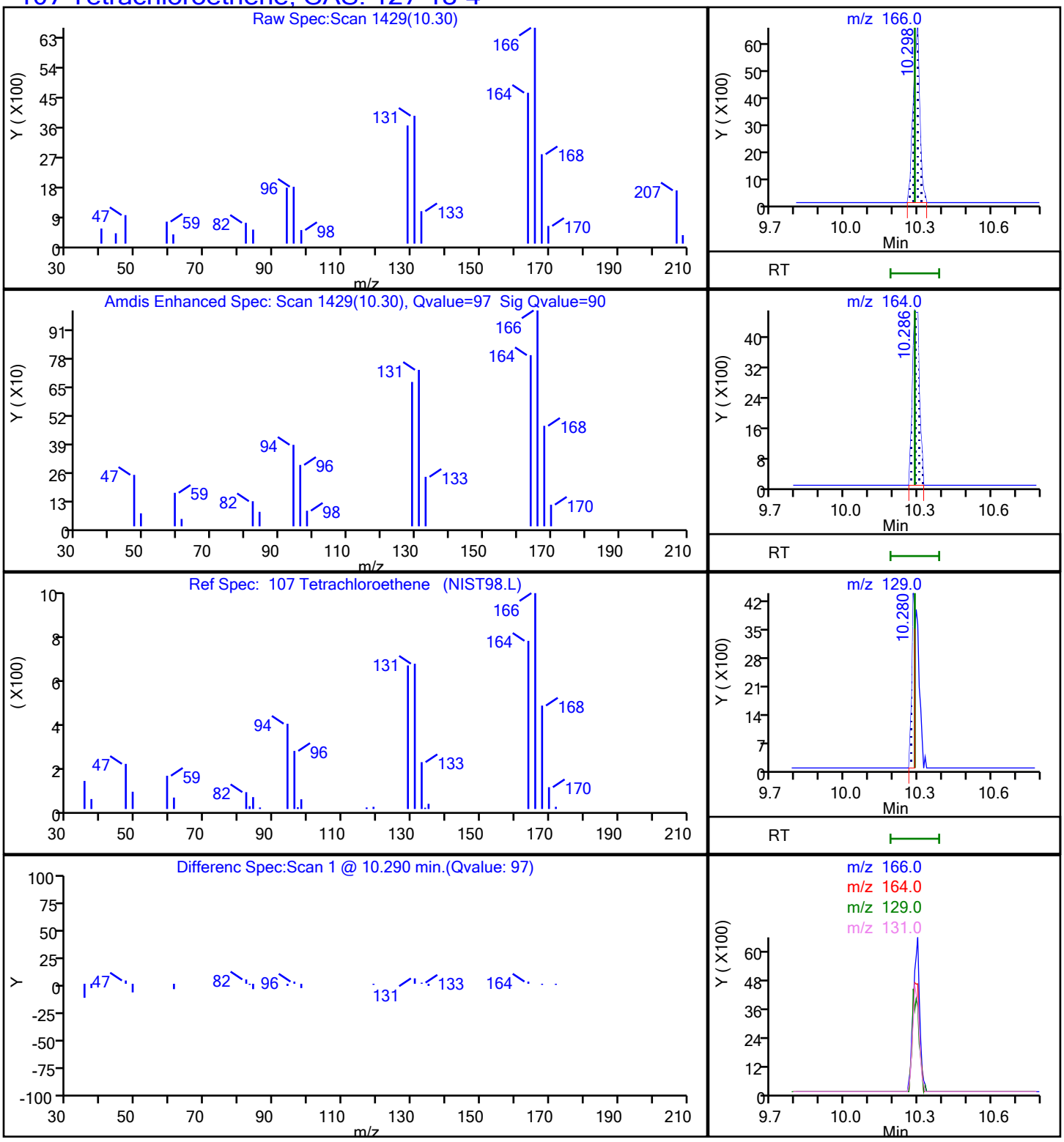
43 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X13.D				
Injection Date:	05-Oct-2022 13:29:30	Instrument ID:	19094		
Lims ID:	410-99372-A-4	Lab Sample ID:	410-99372-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

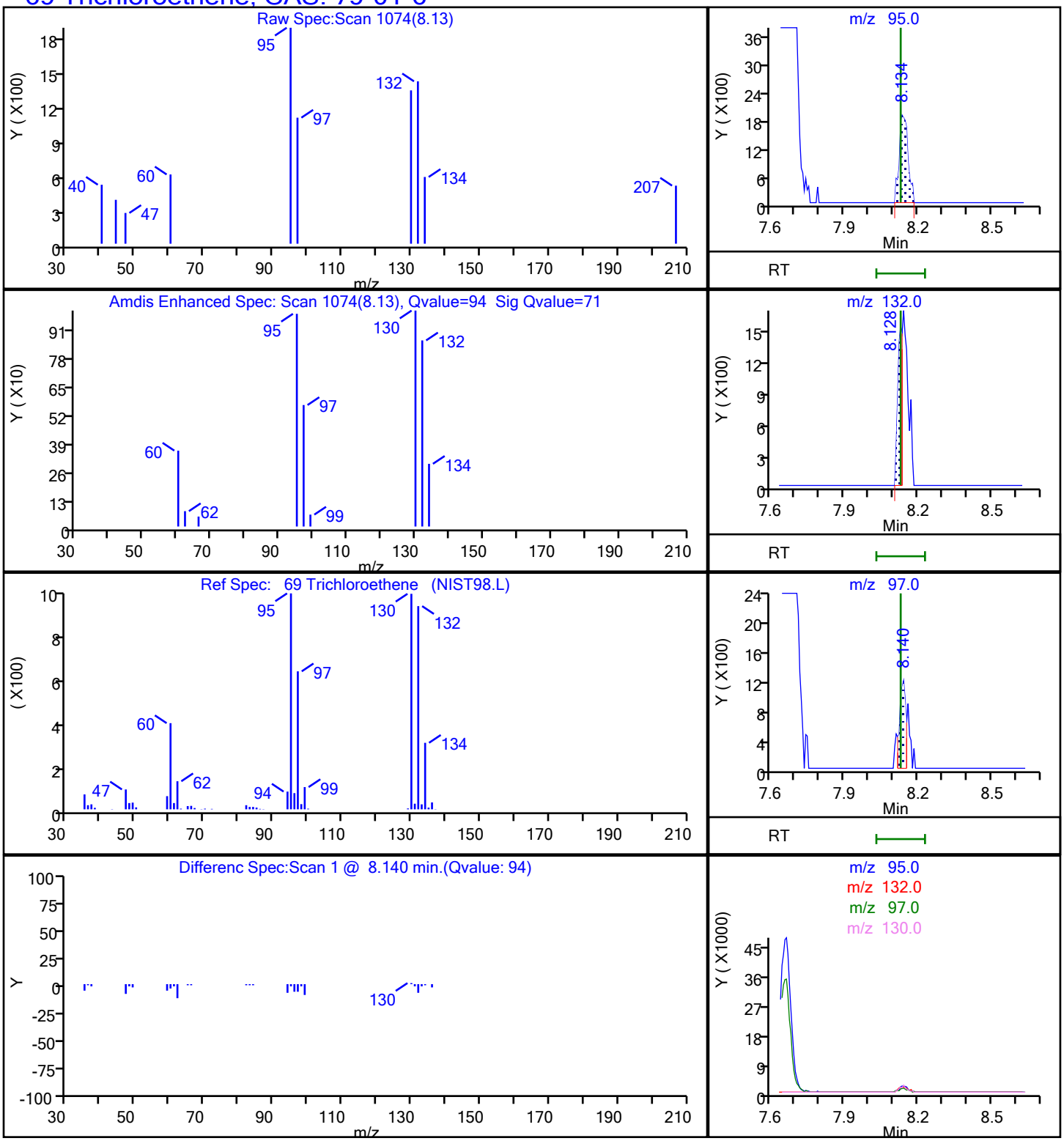
107 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X13.D				
Injection Date:	05-Oct-2022 13:29:30	Instrument ID:	19094		
Lims ID:	410-99372-A-4	Lab Sample ID:	410-99372-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

69 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-13-0/1-0 Lab Sample ID: 410-99372-5

Matrix: Water Lab File ID: HO05X14.D

Analysis Method: 8260D Date Collected: 09/23/2022 09:15

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 13:50

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 303234 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.1	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	0.16	J cn	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.13	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	0.92		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-13-0/1-0 Lab Sample ID: 410-99372-5

Matrix: Water Lab File ID: HO05X14.D

Analysis Method: 8260D Date Collected: 09/23/2022 09:15

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 13:50

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 303234 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X14.D
Lims ID: 410-99372-A-5
Client ID: HD-COD-SW-13-0/1-0
Sample Type: Client
Inject. Date: 05-Oct-2022 13:50:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0067970-015
Operator ID: knk41612 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2022 14:06:33 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:06:33

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	9	3891	0.0624	
7 Vinyl chloride	62		2.239				ND	
9 Bromomethane	94		2.575				ND	
10 Chloroethane	64		2.654				ND	
18 1,1-Dichloroethene	96		3.513				ND	
19 Acetone	43	3.556	3.532	0.024	69	6747	1.09	
24 Carbon disulfide	76	3.806	3.812	-0.006	99	18252	0.1612	M
* 29 t-Butyl alcohol-d10 (IS)	65	4.172	4.166	0.006	23	96674	50.0	
28 Methylene Chloride	84		4.166				ND	
33 Methyl tert-butyl ether	73		4.568				ND	
34 trans-1,2-Dichloroethene	96		4.592				ND	
37 1,1-Dichloroethane	63		5.245				ND	7
42 2-Butanone (MEK)	43		6.019				ND	
43 cis-1,2-Dichloroethene	96	6.080	6.068	0.012	76	6769	0.1312	
49 Chlorobromomethane	128		6.397				ND	
52 Chloroform	83	6.555	6.549	0.006	86	4926	0.0595	
$ 53 Dibromofluoromethane (Surr)	113	6.763	6.757	0.006	93	407186	9.89	
54 1,1,1-Trichloroethane	97	6.787	6.781	0.006	47	4274	0.0554	M
57 Carbon tetrachloride	117		6.988				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.214	7.214	0.000	52	78530	10.5	
60 Benzene	78		7.244				ND	7
62 1,2-Dichloroethane	62		7.311				ND	7
* 65 Fluorobenzene (IS)	96	7.653	7.653	0.000	99	1626021	10.0	
69 Trichloroethene	95	8.128	8.128	0.000	93	6844	0.1279	M
71 1,2-Dichloropropane	63		8.458				ND	
77 Dichlorobromomethane	83		8.799				ND	
81 cis-1,3-Dichloropropene	75		9.348				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.512				ND	
$ 84 Toluene-d8 (Surr)	98	9.658	9.658	0.000	93	1699567	10.4	
85 Toluene	92		9.732				ND	7
86 trans-1,3-Dichloropropene	75		9.988				ND	
106 1,1,2-Trichloroethane	97		10.195				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.292	10.286	0.006	98	51384	0.9174	
109 2-Hexanone	43		10.402				ND	
111 Chlorodibromomethane	129		10.573				ND	
112 Ethylene Dibromide	107		10.683				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.116	11.109	0.007	86	1334733	10.0	
115 Chlorobenzene	112		11.140				ND	
116 1,1,1,2-Tetrachloroethane	131		11.219				ND	
118 Ethylbenzene	91		11.225				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.341				ND	7
120 o-Xylene	106		11.664				ND	
121 Styrene	104		11.682				ND	
122 Bromoform	173		11.841				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	91	642032	9.69	
127 1,1,2,2-Tetrachloroethane	83		12.207				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	95	728562	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_HP25_ISSS_00057 Amount Added: 1.00 Units: uL Run Reagent

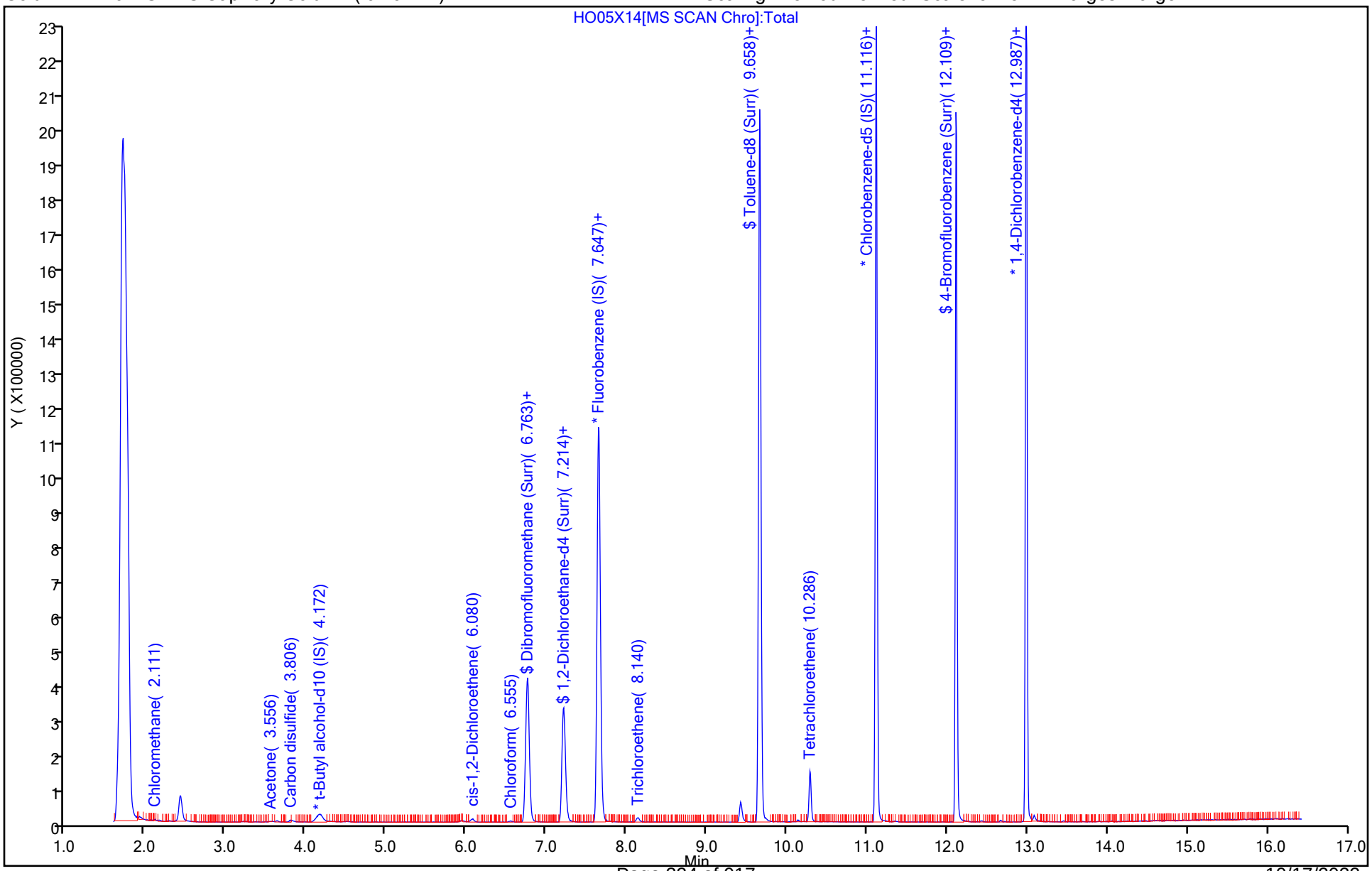
Report Date: 06-Oct-2022 14:06:34 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X14.D

Injection Date:	05-Oct-2022 13:50:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	410-99372-A-5	Lab Sample ID:	410-99372-5	Worklist Smp#:	15
Client ID:	HD-COD-SW-13-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X14.D				
Lims ID:	410-99372-A-5				
Client ID:	HD-COD-SW-13-0/1-0				
Sample Type:	Client				
Inject. Date:	05-Oct-2022 13:50:30	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0067970-015				
Operator ID:	knk41612	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Oct-2022 14:06:33	Calib Date:	11-Jul-2022 18:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1671				

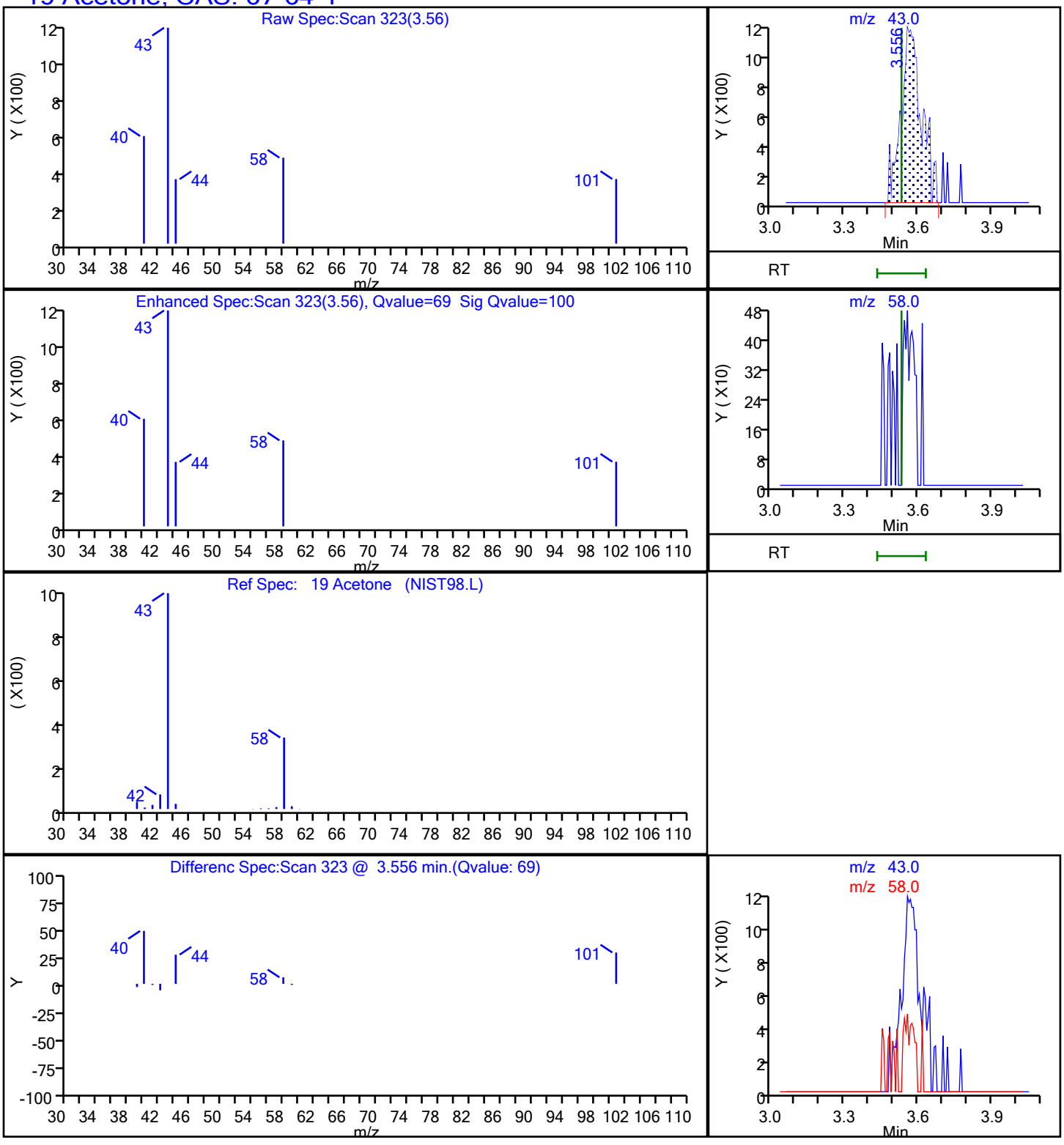
First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:06:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	9.89	98.94
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	104.57
$ 84 Toluene-d8 (Surr)	10.0	10.4	104.08
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.69	96.85

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X14.D				
Injection Date:	05-Oct-2022 13:50:30	Instrument ID:	19094		
Lims ID:	410-99372-A-5	Lab Sample ID:	410-99372-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

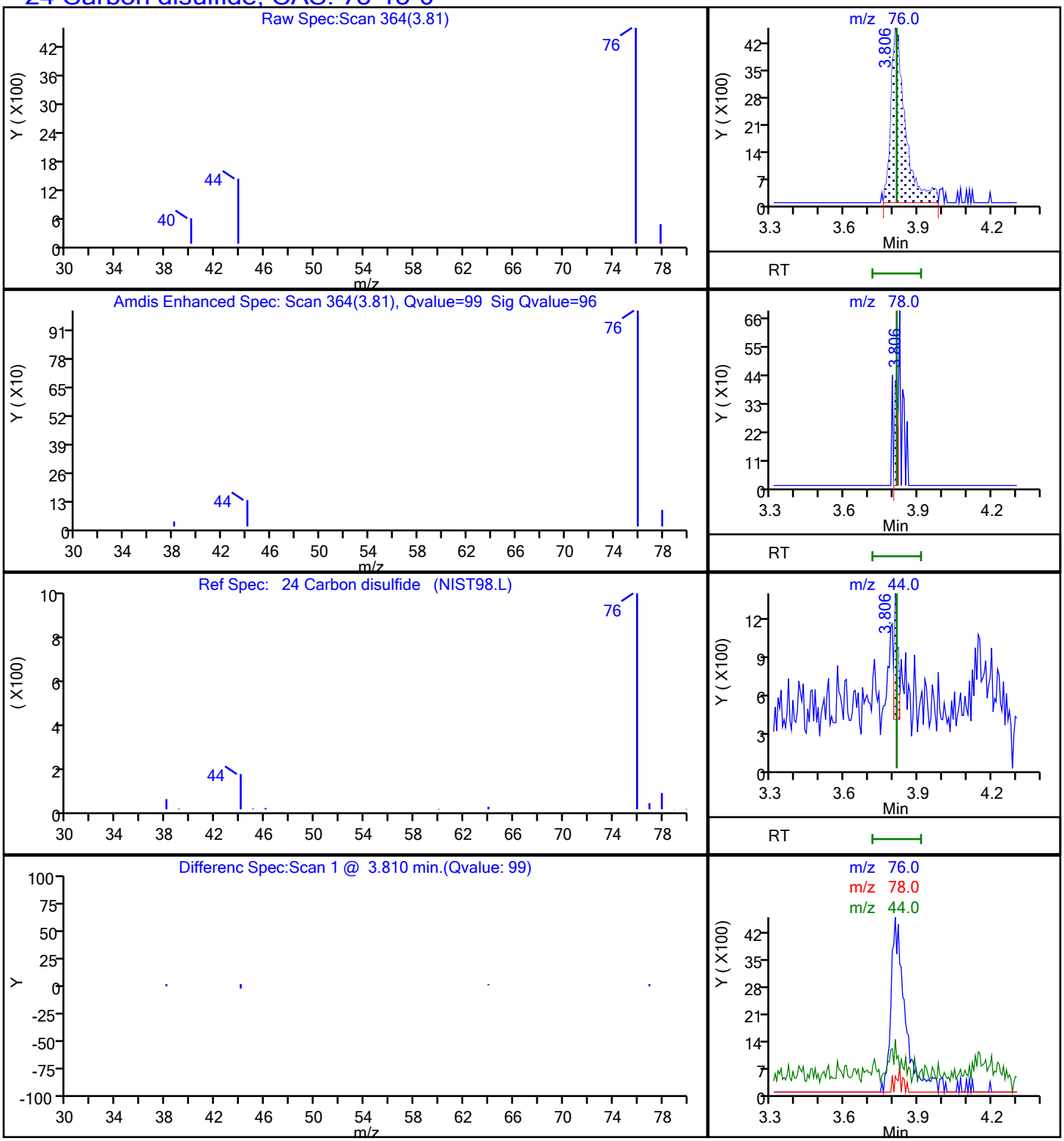
19 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X14.D				
Injection Date:	05-Oct-2022 13:50:30	Instrument ID:	19094		
Lims ID:	410-99372-A-5	Lab Sample ID:	410-99372-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

24 Carbon disulfide, CAS: 75-15-0

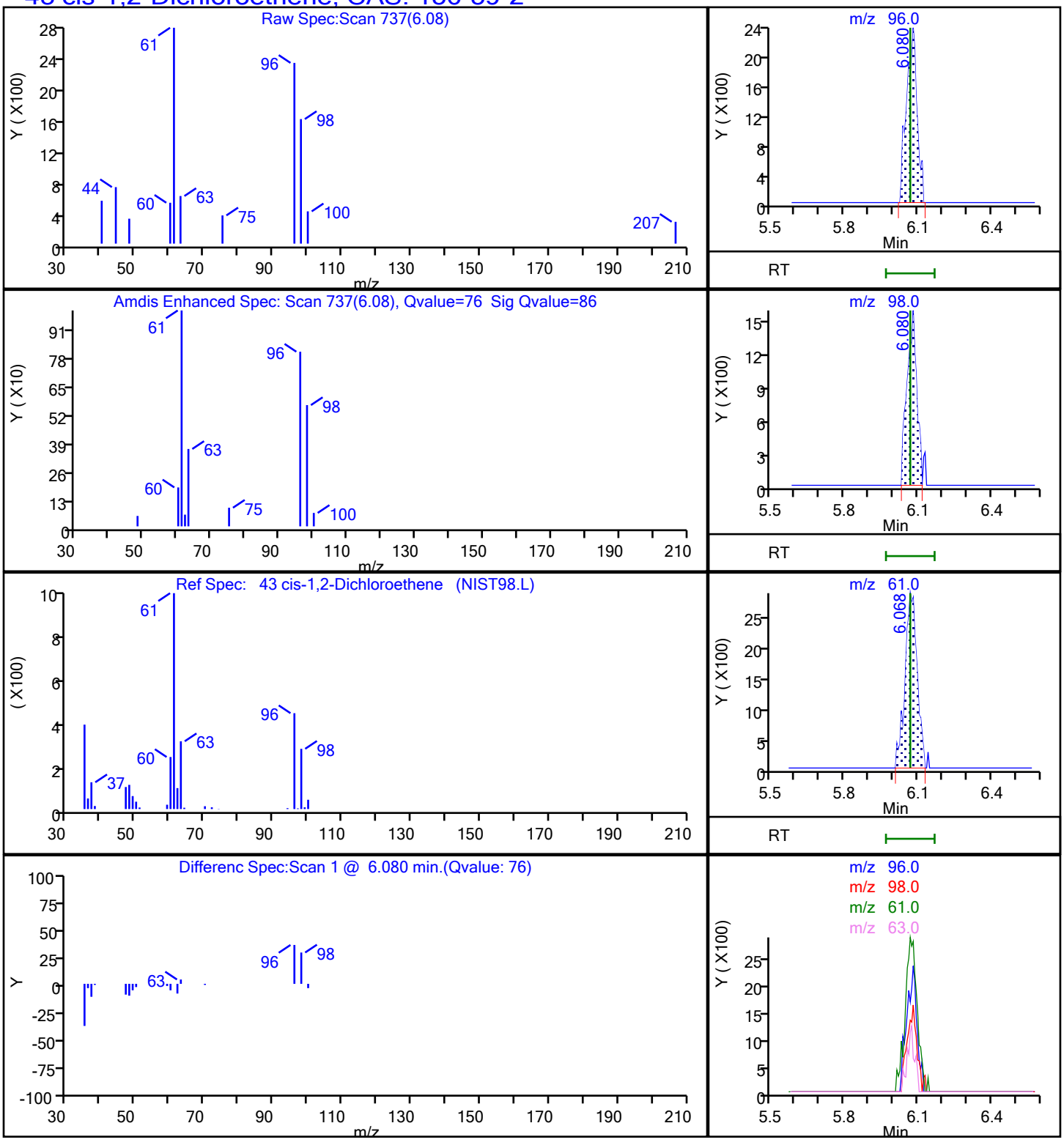


Report Date: 06-Oct-2022 14:06:34 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X14.D				
Injection Date:	05-Oct-2022 13:50:30	Instrument ID:	19094		
Lims ID:	410-99372-A-5	Lab Sample ID:	410-99372-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

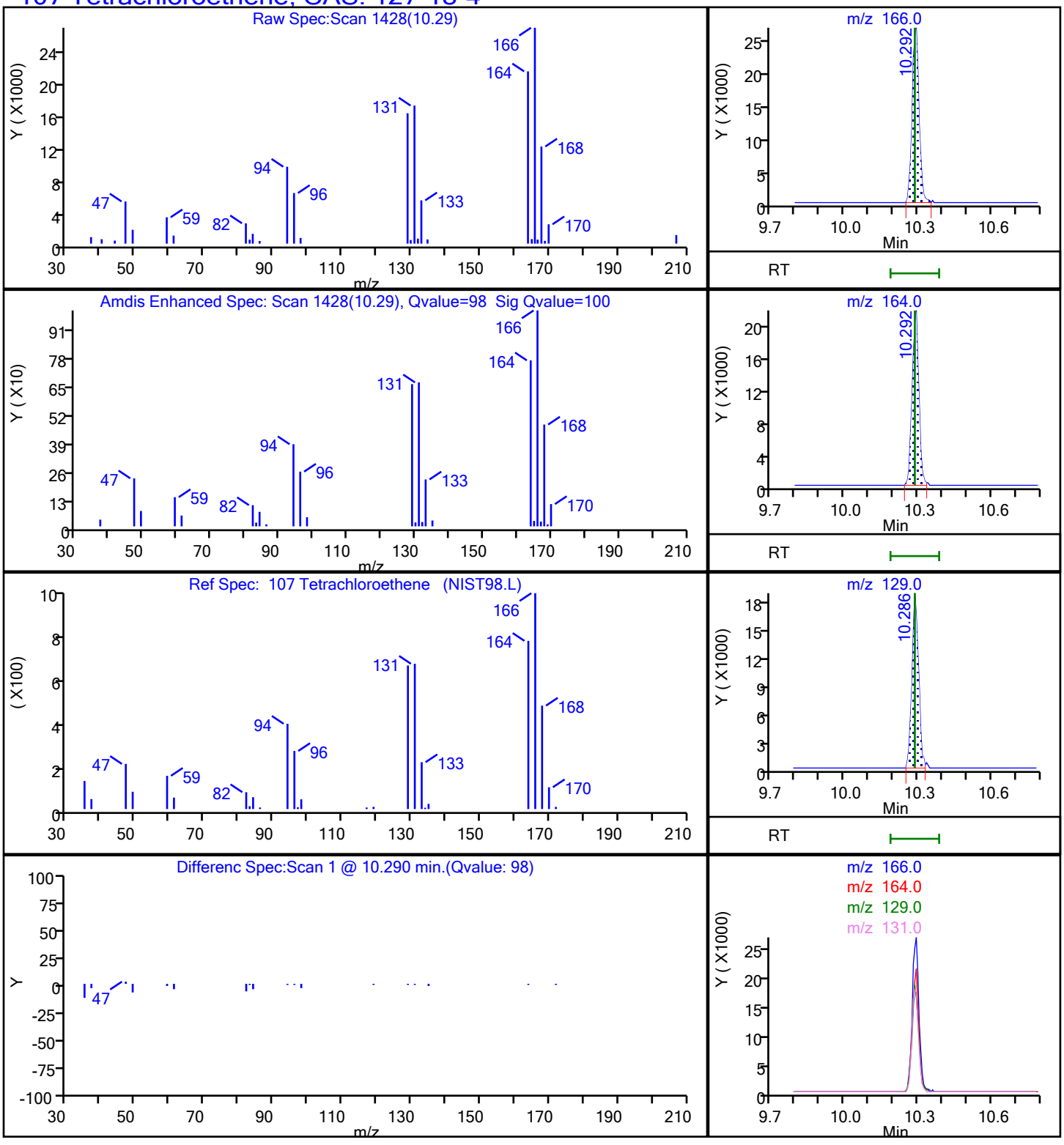


Report Date: 06-Oct-2022 14:06:34 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X14.D				
Injection Date:	05-Oct-2022 13:50:30	Instrument ID:	19094		
Lims ID:	410-99372-A-5	Lab Sample ID:	410-99372-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

107 Tetrachloroethene, CAS: 127-18-4

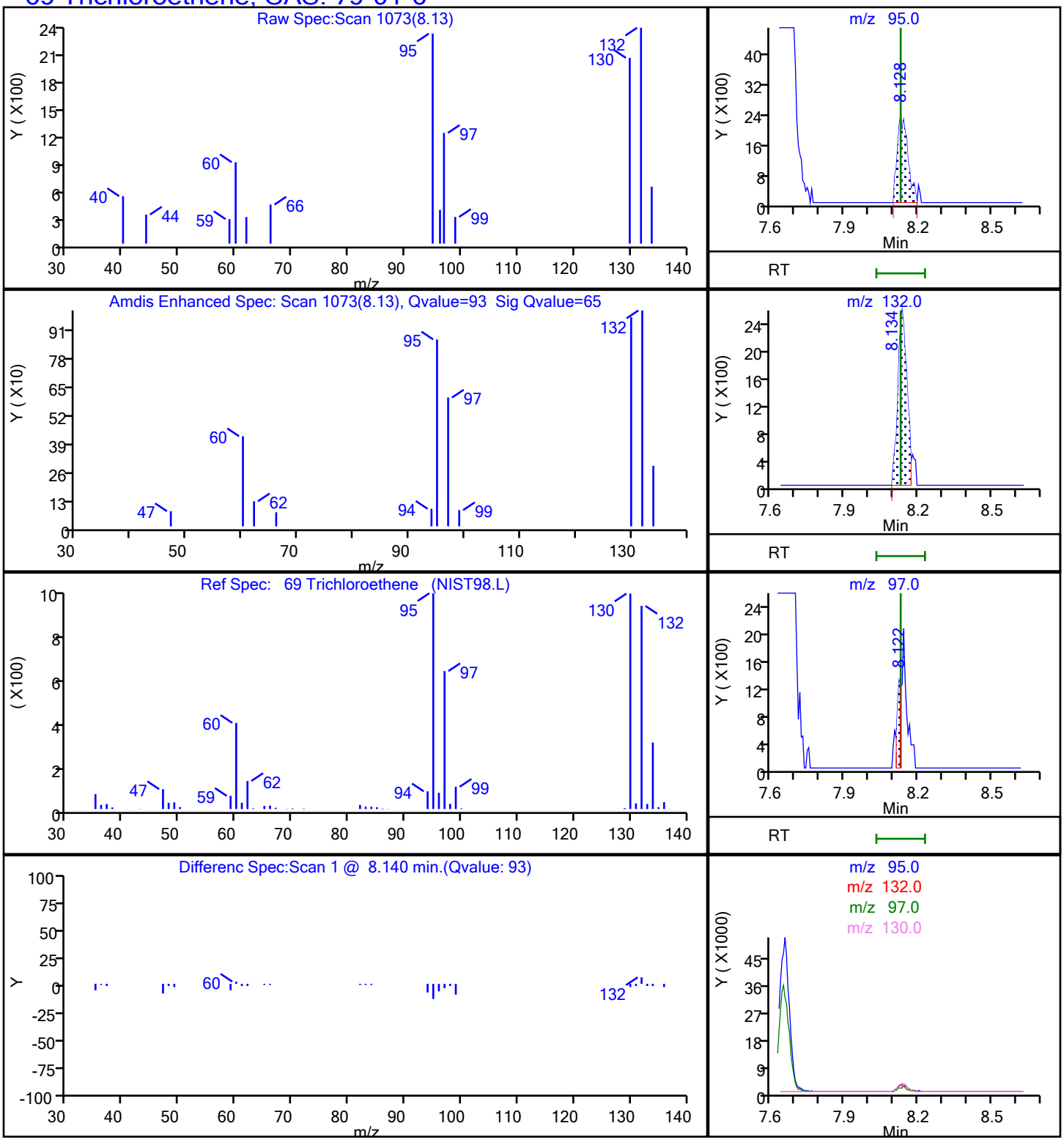


Report Date: 06-Oct-2022 14:06:34 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X14.D				
Injection Date:	05-Oct-2022 13:50:30	Instrument ID:	19094		
Lims ID:	410-99372-A-5	Lab Sample ID:	410-99372-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

69 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

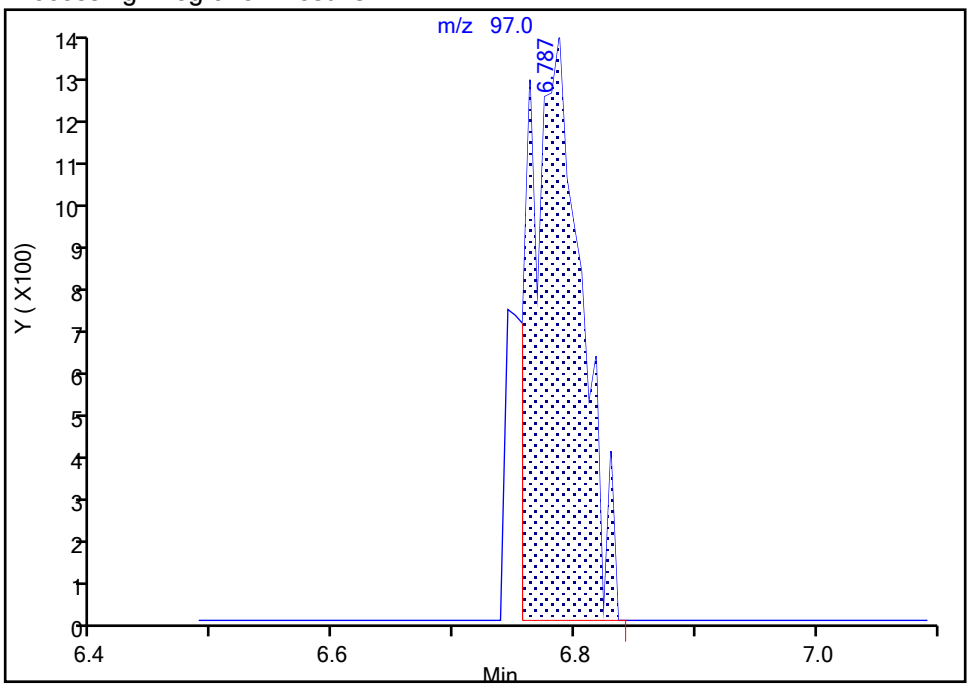
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X14.D				
Injection Date:	05-Oct-2022 13:50:30	Instrument ID:	19094		
Lims ID:	410-99372-A-5	Lab Sample ID:	410-99372-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

54 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

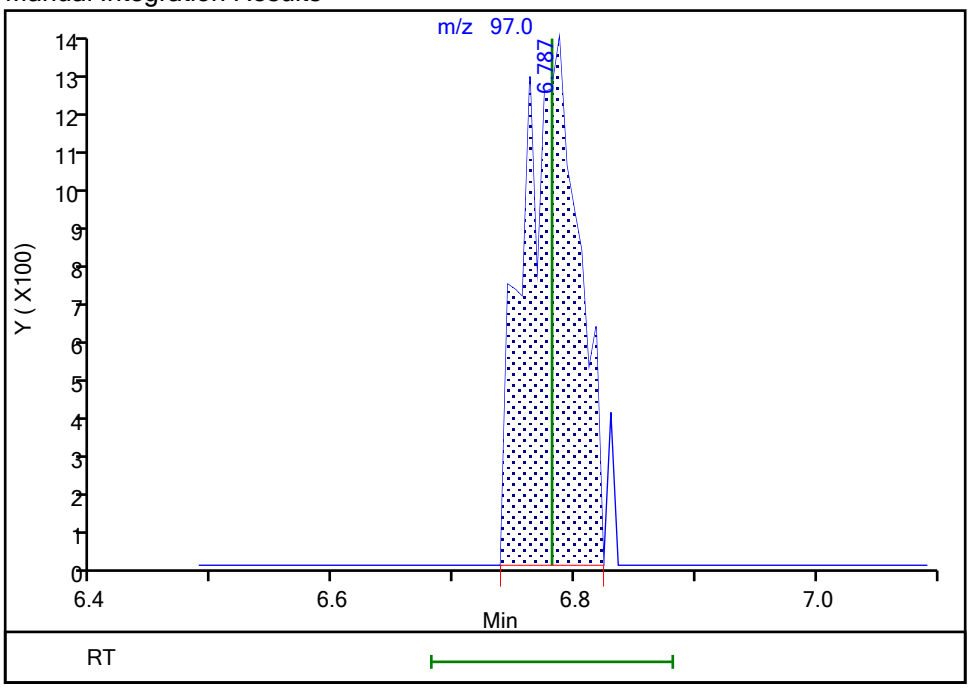
Processing Integration Results

RT: 6.79
Area: 3897
Amount: 0.050542
Amount Units: ug/l



Manual Integration Results

RT: 6.79
Area: 4274
Amount: 0.055431
Amount Units: ug/l



Reviewer: pongsawatp, 06-Oct-2022 14:06:06

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

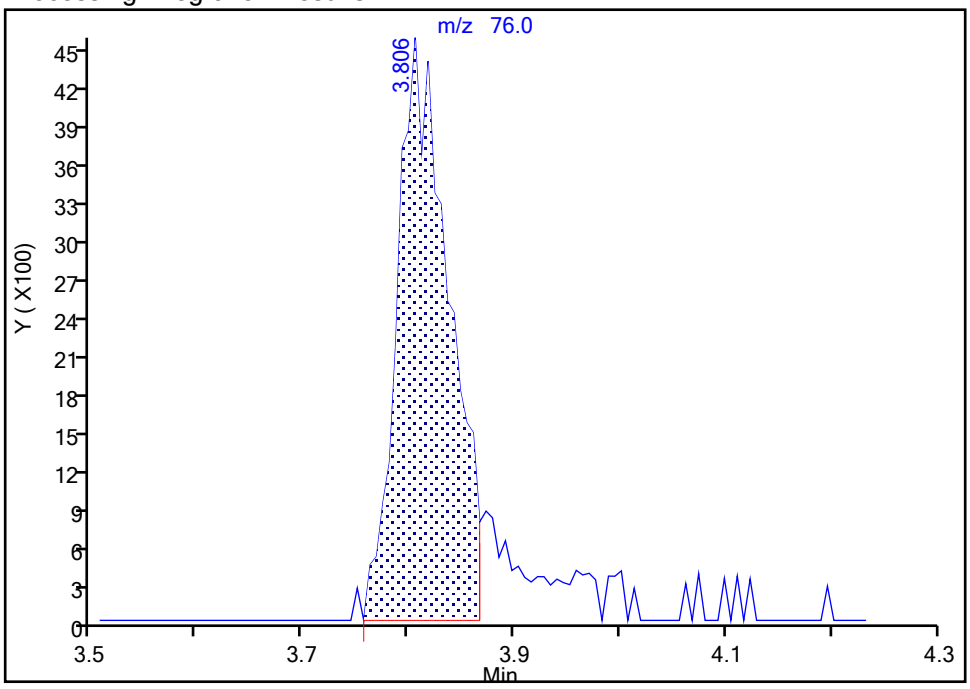
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X14.D				
Injection Date:	05-Oct-2022 13:50:30	Instrument ID:	19094		
Lims ID:	410-99372-A-5	Lab Sample ID:	410-99372-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

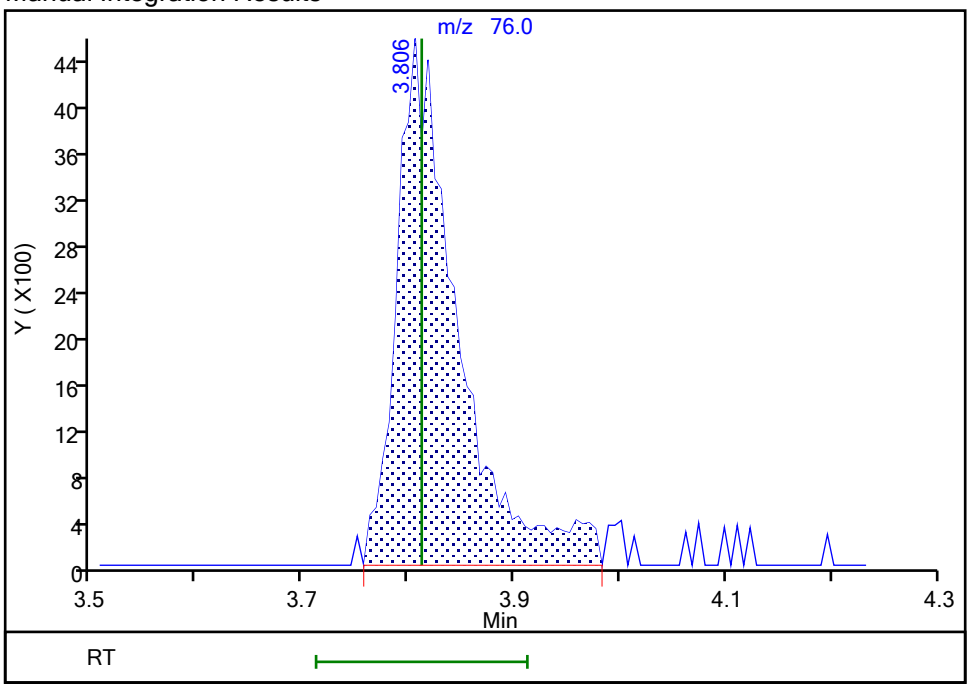
Processing Integration Results

RT: 3.81
Area: 15509
Amount: 0.137006
Amount Units: ug/l



Manual Integration Results

RT: 3.81
Area: 18252
Amount: 0.161237
Amount Units: ug/l



Reviewer: pongsawatp, 06-Oct-2022 14:05:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

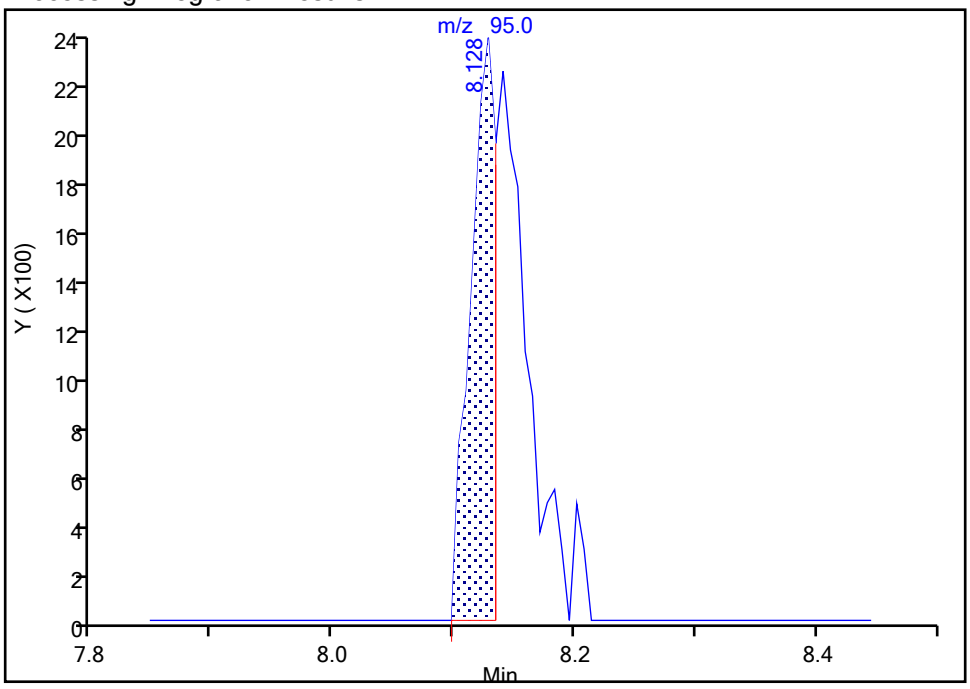
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X14.D				
Injection Date:	05-Oct-2022 13:50:30	Instrument ID:	19094		
Lims ID:	410-99372-A-5	Lab Sample ID:	410-99372-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

69 Trichloroethene, CAS: 79-01-6

Signal: 1

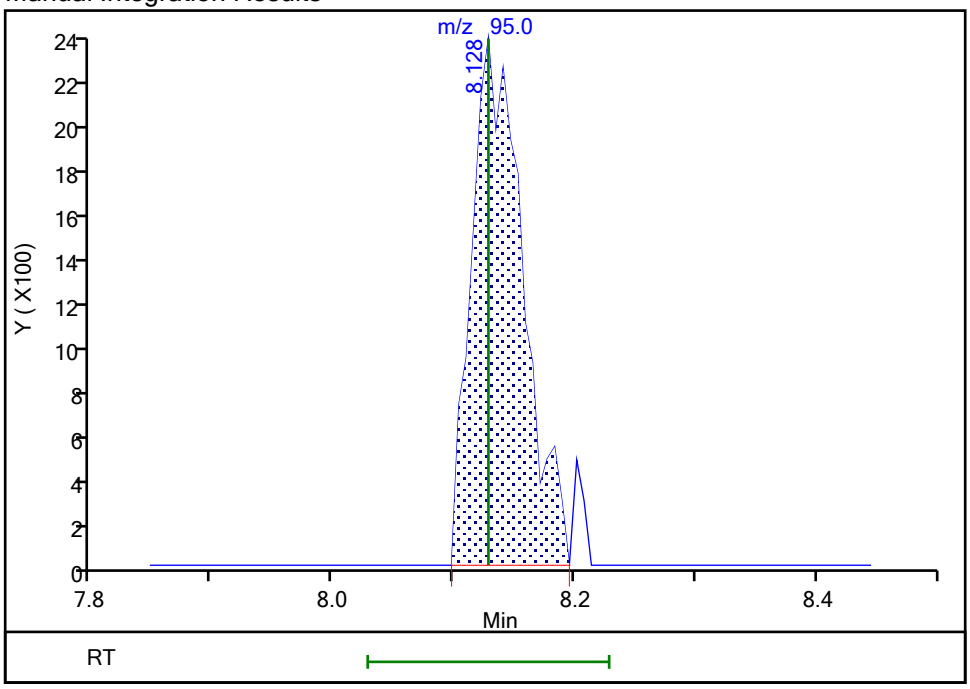
Processing Integration Results

RT: 8.13
Area: 3425
Amount: 0.063990
Amount Units: ug/l



Manual Integration Results

RT: 8.13
Area: 6844
Amount: 0.127867
Amount Units: ug/l



Reviewer: pongsawatp, 06-Oct-2022 14:06:22

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.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 Lab Sample ID: 410-99372-6

Matrix: Water Lab File ID: HO05X15.D

Analysis Method: 8260D Date Collected: 09/23/2022 11:25

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 14:10

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.: 303234 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	0.26	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	0.11	J	0.50	0.10
75-35-4	1,1-Dichloroethene	0.12	J	0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		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	0.33	J	0.50	0.090
74-87-3	Chloromethane	ND		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	5.5		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 Lab Sample ID: 410-99372-6

Matrix: Water Lab File ID: HO05X15.D

Analysis Method: 8260D Date Collected: 09/23/2022 11:25

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 14:10

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.: 303234 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	1.2		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X15.D
Lims ID: 410-99372-A-6
Client ID: HD-COD-SW-15-0/1-0
Sample Type: Client
Inject. Date: 05-Oct-2022 14:10:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0067970-016
Operator ID: knk41612 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2022 14:07:33 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:07:33

	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		1.934				ND	
	3 Chlorodifluoromethane	51		1.934				ND	7
	4 Dimethyl ether	45		2.001				ND	
	5 Chloromethane	50		2.123				ND	
	7 Vinyl chloride	62		2.239				ND	
	6 Butadiene	39		2.251				ND	7
	8 2-Chloro-1,1,1-Trifluoroethane	118		2.312				ND	
	9 Bromomethane	94		2.575				ND	
	10 Chloroethane	64		2.654				ND	
	11 Dichlorofluoromethane	67		2.885				ND	
	12 Trichlorofluoromethane	101		2.959				ND	
	13 Ethanol	45		3.111				ND	
	14 Ethyl ether	59		3.209				ND	
	15 1,2-Dichloro-1,1,2-trifluoroetha	67		3.288				ND	
	16 Acrolein	56		3.373				ND	7
T	17 Ethanol TIC	45		3.440				ND	7
	18 1,1-Dichloroethene	96	3.507	3.513	-0.006	95	5129	0.1184	
	19 Acetone	43		3.532				ND	
	20 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.544				ND	
	21 Isopropyl alcohol	45		3.690				ND	
	22 Iodomethane	142		3.708				ND	
	23 Ethyl bromide	108		3.733				ND	
	24 Carbon disulfide	76	3.818	3.812	0.006	98	10734	0.0925	M
	26 Acetonitrile	41		3.897				ND	
	25 Methyl acetate	43		3.958				ND	
	27 3-Chloro-1-propene	41		3.989				ND	
*	29 t-Butyl alcohol-d10 (IS)	65	4.172	4.166	0.006	25	100749	50.0	
	28 Methylene Chloride	84		4.166				ND	
T	30 Acetonitrile TIC	41		4.214				ND	
	31 2-Methyl-2-propanol	59		4.294				ND	
	32 Acrylonitrile	53		4.507				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73	4.562	4.568	-0.006	1	3812	0.0393	
34 trans-1,2-Dichloroethene	96		4.592				ND	
35 Hexane	57		5.013				ND	
36 Vinyl acetate	43		5.214				ND	
37 1,1-Dichloroethane	63	5.245	5.245	0.000	94	9565	0.1063	
38 Isopropyl ether	45		5.300				ND	
39 2-Chloro-1,3-butadiene	53		5.348				ND	
T 40 Vinyl acetate (TIC)	43		5.537				ND	
41 Tert-butyl ethyl ether	59		5.830				ND	7
42 2-Butanone (MEK)	43		6.019				ND	7
43 cis-1,2-Dichloroethene	96	6.068	6.068	0.000	80	66956	1.27	
44 2,2-Dichloropropane	77		6.080				ND	
46 Ethyl acetate	43		6.098				ND	
45 Propionitrile	54		6.104				ND	
S 47 1,2-Dichloroethene, Total	100				0		1.27	
48 Methacrylonitrile	67		6.318				ND	
49 Chlorobromomethane	128		6.397				ND	
50 Tetrahydrofuran	71		6.403				ND	
51 Methyl acrylate	55		6.482				ND	
52 Chloroform	83	6.555	6.549	0.006	93	28098	0.3310	
$ 53 Dibromofluoromethane (Surr)	113	6.763	6.757	0.006	93	416944	9.89	
54 1,1,1-Trichloroethane	97	6.775	6.781	-0.006	36	20510	0.2596	
55 Cyclohexane	56		6.879				ND	
56 1,1-Dichloropropene	75		6.988				ND	
57 Carbon tetrachloride	117	6.994	6.988	0.006	11	2445	0.0358	
58 Isobutyl alcohol	41		7.122				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.208	7.214	-0.006	52	79149	10.3	
60 Benzene	78		7.244				ND	7
61 1-Chlorobutane	56		7.250				ND	
62 1,2-Dichloroethane	62		7.311				ND	
63 Isopropyl acetate	43		7.324				ND	
64 Tert-amyl methyl ether	73		7.433				ND	
* 65 Fluorobenzene (IS)	96	7.653	7.653	0.000	99	1666373	10.0	
66 n-Heptane	43		7.665				ND	
67 t-Amyl alcohol	73		7.842				ND	
68 n-Butanol	56		8.000				ND	
69 Trichloroethene	95	8.134	8.128	0.006	98	66776	1.22	
70 Methylcyclohexane	83		8.439				ND	
71 1,2-Dichloropropane	63		8.458				ND	
72 2-ethoxy-2-methyl butane	87		8.470				ND	
74 Methyl methacrylate	69		8.543				ND	
73 1,4-Dioxane	88		8.549				ND	
75 Dibromomethane	93		8.567				ND	
76 n-Propyl acetate	61		8.622				ND	
77 Dichlorobromomethane	83		8.799				ND	
78 2-Nitropropane	41		9.061				ND	
79 2-Chloroethyl vinyl ether	63		9.171				ND	
80 1-Bromo-2-chloroethane	63		9.195				ND	
81 cis-1,3-Dichloropropene	75		9.348				ND	
82 Chloroacetonitrile	75		9.427				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.512				ND	
$ 84 Toluene-d8 (Surr)	98	9.658	9.658	0.000	94	1721462	10.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
85 Toluene	92		9.732				ND	7
86 trans-1,3-Dichloropropene	75		9.988				ND	
T 90 Decamethylcyclopentasiloxane TIC	73	9.677	10.000	-0.323	1	114	0.000684	7
T 93 2,3-Dibromo-1-propanol TIC	57		10.000				ND	
T 97 2-Bromo-3-chloropropene TIC	75	9.658	10.000	-0.342	1	101	0.000606	7
T 91 Epibromohydrin TIC	57	9.658	10.000	-0.342	12	699	0.004195	7
T 98 3-Chloro-1,2-propanediol TIC	44	9.945	10.000	-0.055	1	681	0.004087	7
T 89 Octamethylcyclotetrasiloxane TIC	281	12.140	10.000	2.140	74	8174	0.0491	7
T 88 Nitrobenzene TIC	77	9.677	10.000	-0.323	10	553	0.003319	7
T 94 2,3-Dibromopropene TIC	119	10.286	10.000	0.286	1	2393	0.0144	7
T 87 Hexachloroethane TIC	117	10.286	10.000	0.286	12	2564	0.0154	7
T 96 Chloroacetaldehyde TIC	50	9.658	10.000	-0.342	31	41394	0.2484	7
T 208 Methyl acrylate TIC	55	9.774	10.000	-0.226	1	326	0.001956	
T 92 Monochloroacetic acid TIC	50	9.658	10.000	-0.342	37	41394	0.2484	7
T 95 2-Chloroethanol TIC	44	9.945	10.000	-0.055	1	681	0.004087	7
T 99 Isopropyl alcohol TIC	45	9.658	10.000	-0.342	23	2009	0.0121	7
T 100 Ethylene oxide TIC	44	9.945	10.000	-0.055	27	681	0.004087	7
T 101 Vinyl bromide TIC	106	11.341	10.000	1.341	1	436	0.002616	7
T 102 Epichlorohydrin TIC	57	9.658	10.000	-0.342	35	699	0.004195	7
T 103 2-Bromoethanol TIC	45		10.000				ND	
105 Ethyl methacrylate	69		10.055				ND	
S 104 1,3-Dichloropropene, Total	100		10.060				ND	7
106 1,1,2-Trichloroethane	97		10.195				ND	7
107 Tetrachloroethene	166	10.286	10.286	0.000	98	315675	5.54	
108 1,3-Dichloropropane	76		10.360				ND	
109 2-Hexanone	43		10.402				ND	
110 n-Butyl acetate	43		10.530				ND	
111 Chlorodibromomethane	129		10.573				ND	
112 Ethylene Dibromide	107		10.683				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.115	11.109	0.006	85	1357366	10.0	
114 1-Chlorohexane	91		11.122				ND	7
115 Chlorobenzene	112		11.140				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.219				ND	
118 Ethylbenzene	91		11.225				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.341				ND	7
120 o-Xylene	106		11.664				ND	
121 Styrene	104		11.682				ND	
122 Bromoform	173		11.841				ND	
123 Isopropylbenzene	105		11.963				ND	
124 cis-1,4-Dichloro-2-butene	88		12.012				ND	
125 Cyclohexanone	55		12.042				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	91	653425	9.69	
127 1,1,2,2-Tetrachloroethane	83		12.207				ND	
128 Bromobenzene	156		12.225				ND	
129 trans-1,4-Dichloro-2-butene	53		12.231				ND	
130 1,2,3-Trichloropropane	110		12.256				ND	
131 N-Propylbenzene	91		12.292				ND	
132 2-Chlorotoluene	126		12.371				ND	
133 1,3,5-Trimethylbenzene	105		12.426				ND	
134 4-Chlorotoluene	126		12.463				ND	
135 tert-Butylbenzene	134		12.670				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
136 Pentachloroethane	167		12.701				ND	
137 1,2,4-Trimethylbenzene	105		12.707				ND	7
138 sec-Butylbenzene	105		12.829				ND	
139 1,3-Dichlorobenzene	146		12.932				ND	
140 4-Isopropyltoluene	119		12.938				ND	7
* 141 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	95	739284	10.0	
142 1,4-Dichlorobenzene	146		13.005				ND	
143 1,2,3-Trimethylbenzene	120		13.012				ND	7
144 Benzyl chloride	126		13.079				ND	
145 p-Diethylbenzene	119		13.133				ND	
146 n-Butylbenzene	92		13.225				ND	
147 1,2-Dichlorobenzene	146		13.261				ND	
148 Hexachloroethane	201		13.682				ND	
149 1,2-Dibromo-3-Chloropropane	155		13.798				ND	
150 1,3,5-Trichlorobenzene	180		13.926				ND	
151 1,2,4-Trichlorobenzene	180		14.347				ND	
152 Hexachlorobutadiene	225		14.426				ND	
153 Naphthalene	128		14.523				ND	
154 1,2,3-Trichlorobenzene	180		14.670				ND	7
155 2-Methylnaphthalene	142		15.279				ND	
156 tert-Butyl Formate	1		0.000				ND	
157 Dodecane	57		0.000				ND	
158 Pentane	43		0.000				ND	
159 1,1-Dichloroacetone	1		0.000				ND	
160 n-Decane	57		0.000				ND	
161 1-Bromo-3-Chloropropane	1		0.000				ND	
162 1-Chloropropane	1		0.000				ND	
163 Propene oxide	1		0.000				ND	
164 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
165 Methylal	1		0.000				ND	
166 2-Bromo-1-chloropropane	1		0.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_HP25_ISSS_00057 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 06-Oct-2022 14:07:33 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X15.D				
Injection Date:	05-Oct-2022 14:10:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	410-99372-A-6	Lab Sample ID:	410-99372-6	Worklist Smp#:	16
Client ID:	HD-COD-SW-15-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X15.D				
Lims ID:	410-99372-A-6				
Client ID:	HD-COD-SW-15-0/1-0				
Sample Type:	Client				
Inject. Date:	05-Oct-2022 14:10:30	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0067970-016				
Operator ID:	knk41612	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Oct-2022 14:07:33	Calib Date:	11-Jul-2022 18:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1671				

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:07:33

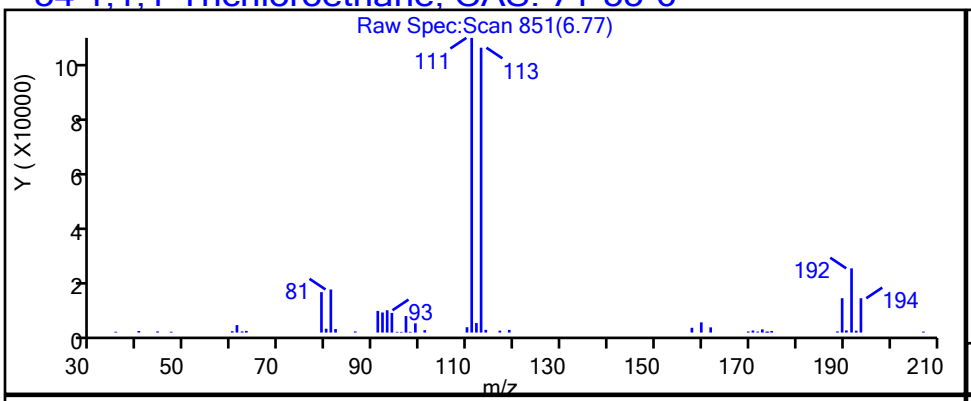
Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	9.89	98.86
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	102.84
$ 84 Toluene-d8 (Surr)	10.0	10.4	103.67
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.69	96.93

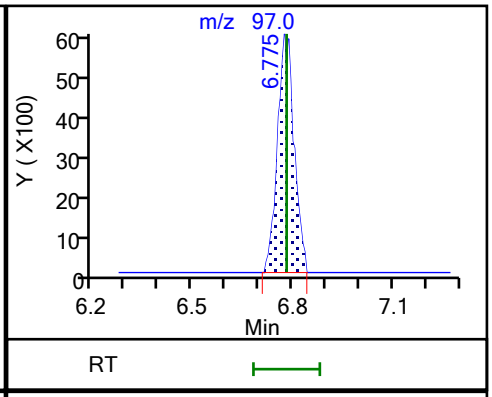
Report Date: 06-Oct-2022 14:07:33 Chrom Revision: 2.3 22-Sep-2022 21:23:26

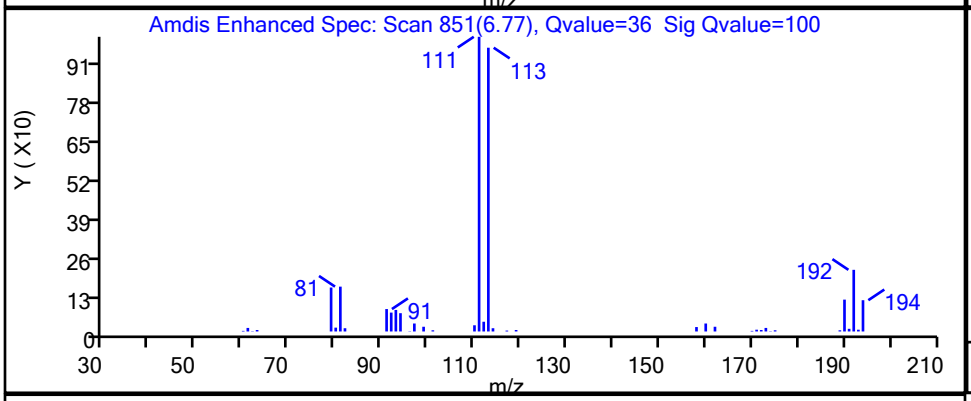
Eurofins Lancaster Laboratories Environment Testing, LLC

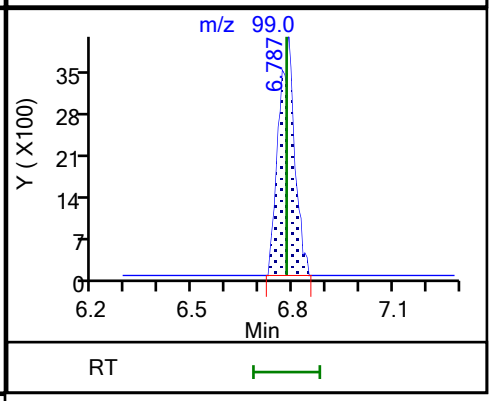
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X15.D				
Injection Date:	05-Oct-2022 14:10:30	Instrument ID:	19094		
Lims ID:	410-99372-A-6	Lab Sample ID:	410-99372-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

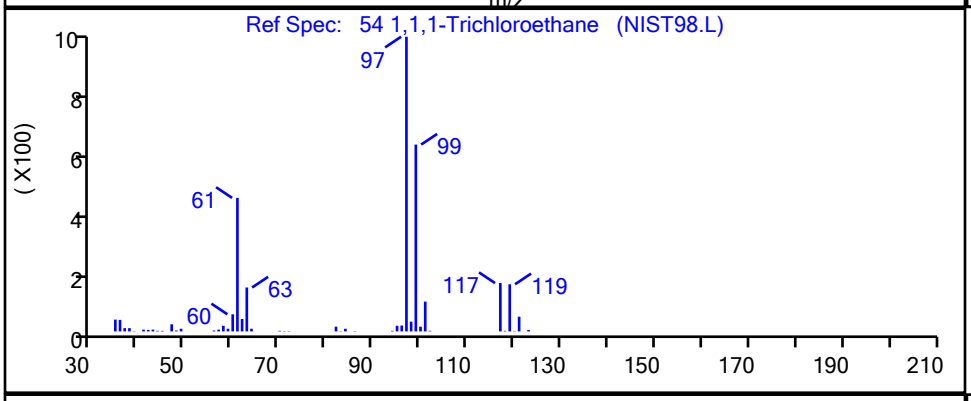
54 1,1,1-Trichloroethane, CAS: 71-55-6

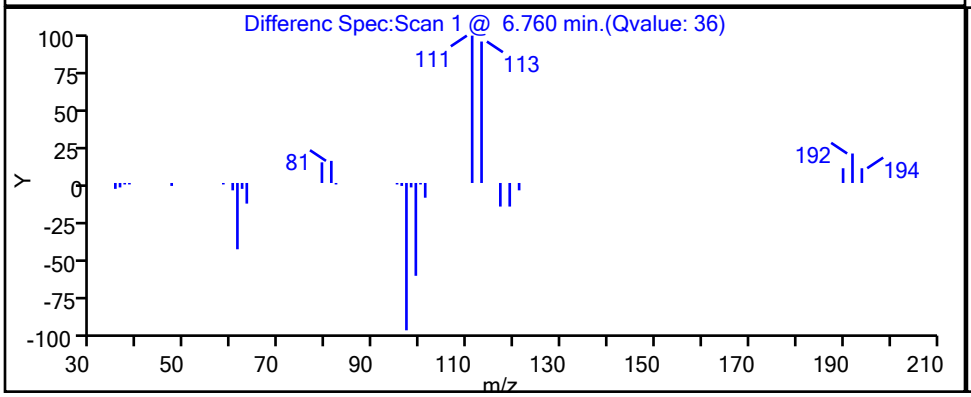


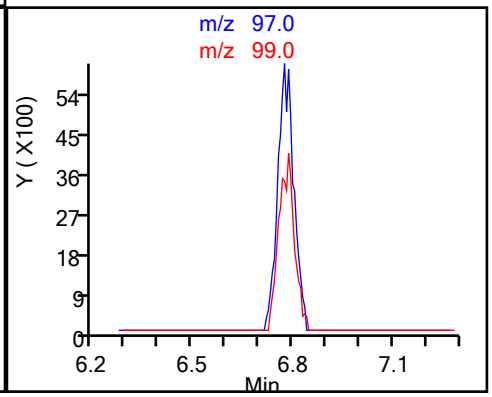












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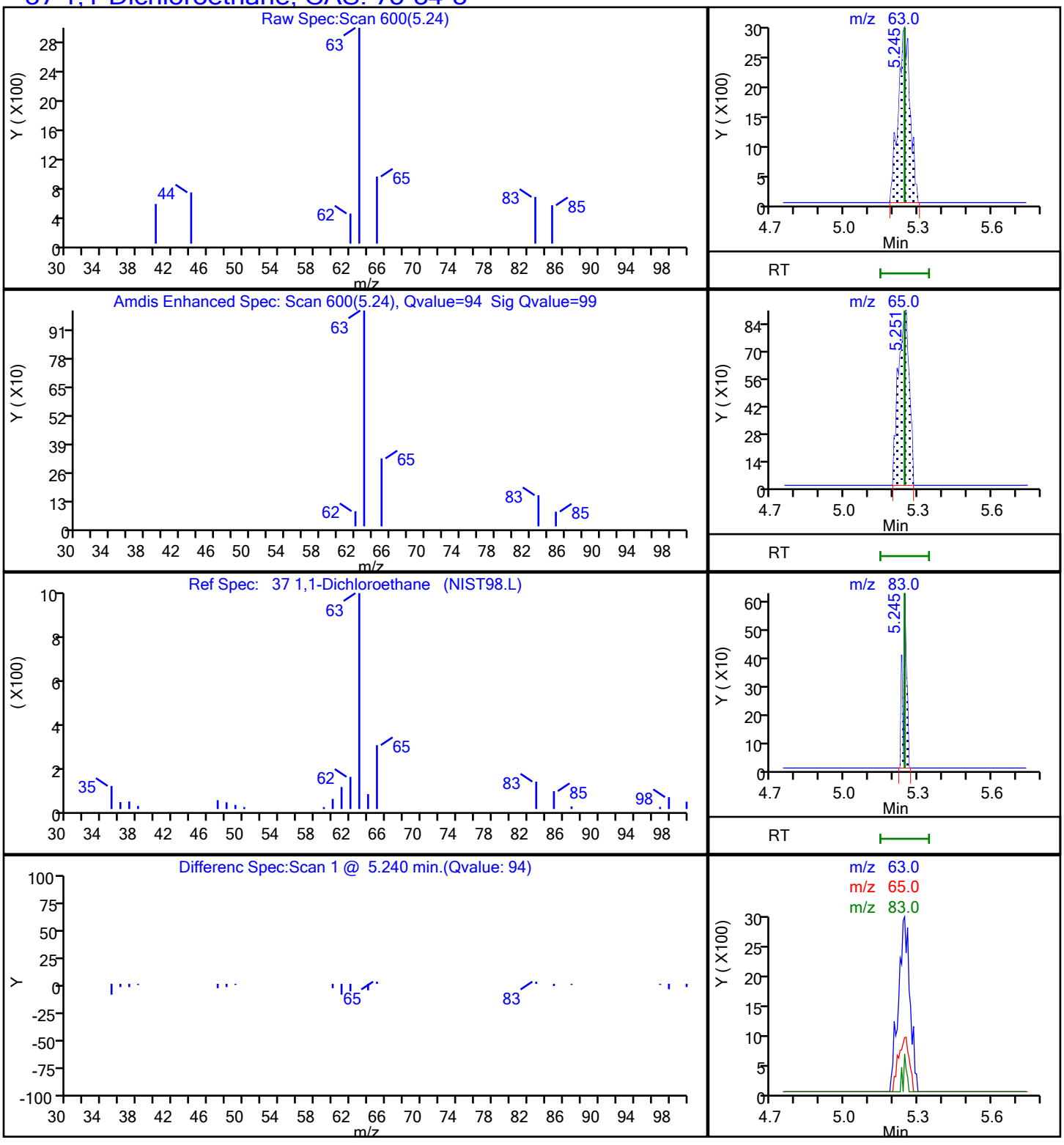
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X15.D				
Injection Date:	05-Oct-2022 14:10:30	Instrument ID:	19094		
Lims ID:	410-99372-A-6	Lab Sample ID:	410-99372-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

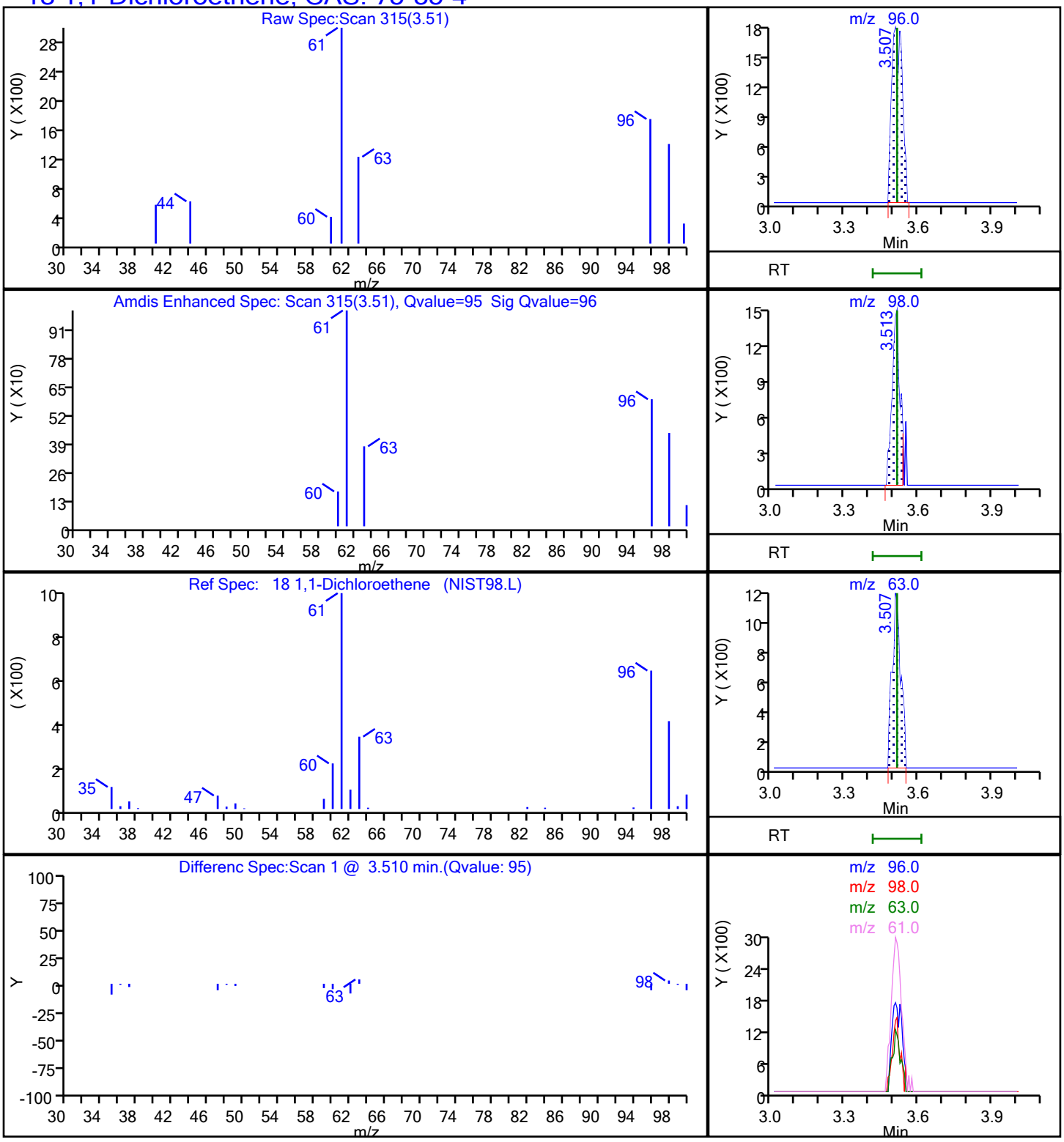
37 1,1-Dichloroethane, CAS: 75-34-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X15.D				
Injection Date:	05-Oct-2022 14:10:30	Instrument ID:	19094		
Lims ID:	410-99372-A-6	Lab Sample ID:	410-99372-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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



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Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X15.D				
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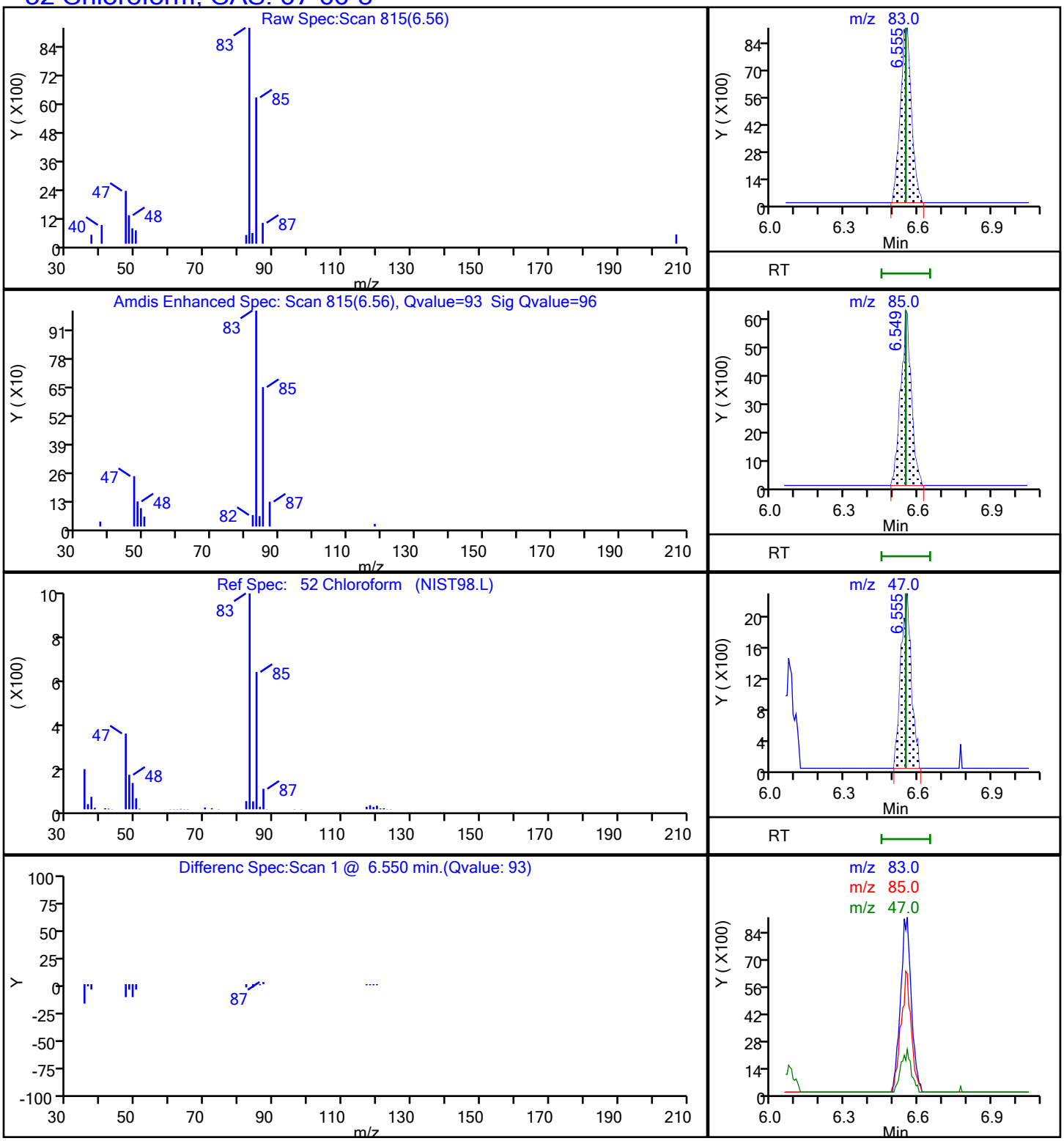
Lims ID:	410-99372-A-6	Lab Sample ID:	410-99372-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

52 Chloroform, CAS: 67-66-3

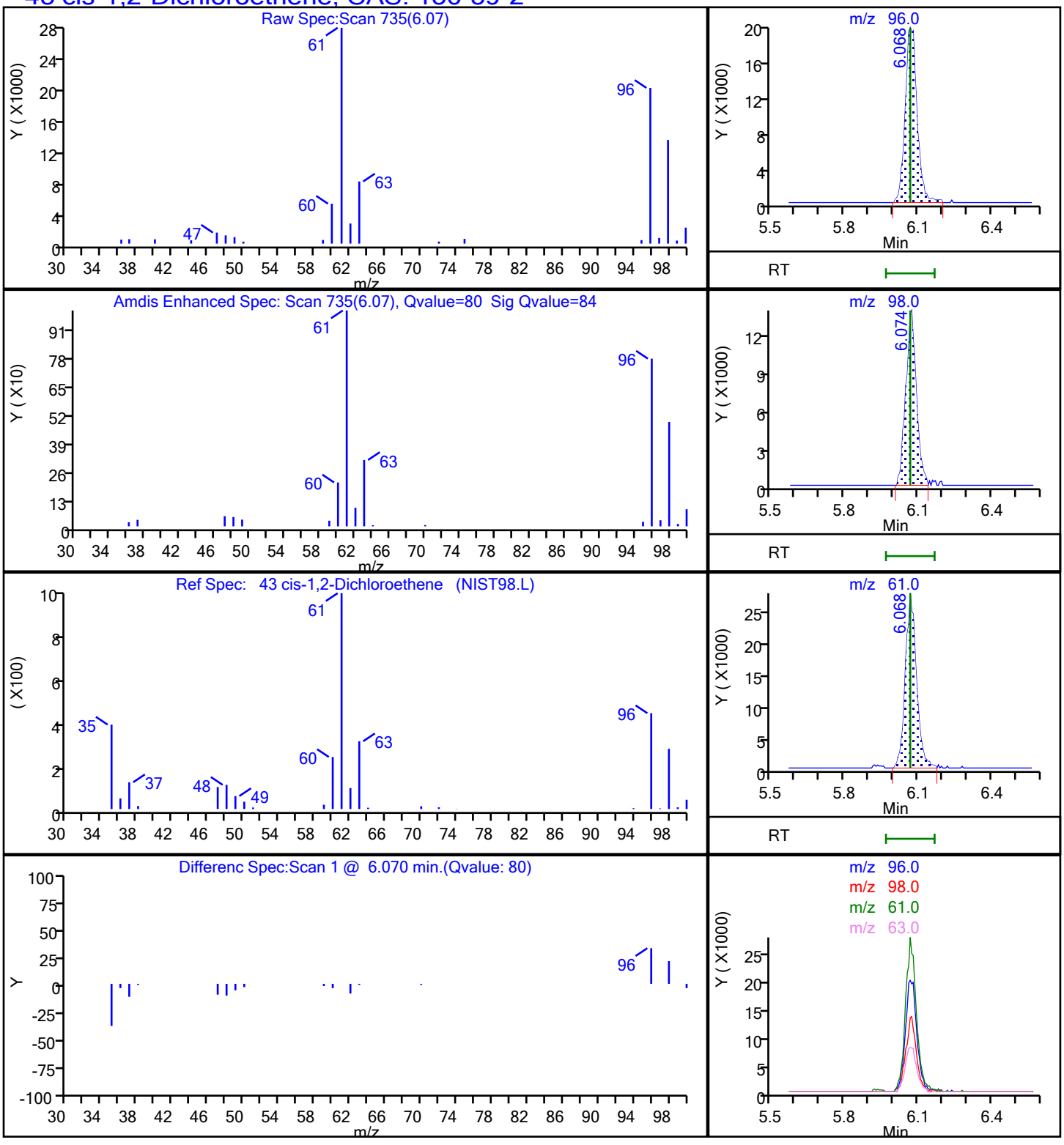


Report Date: 06-Oct-2022 14:07:33 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X15.D				
Injection Date:	05-Oct-2022 14:10:30	Instrument ID:	19094		
Lims ID:	410-99372-A-6	Lab Sample ID:	410-99372-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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



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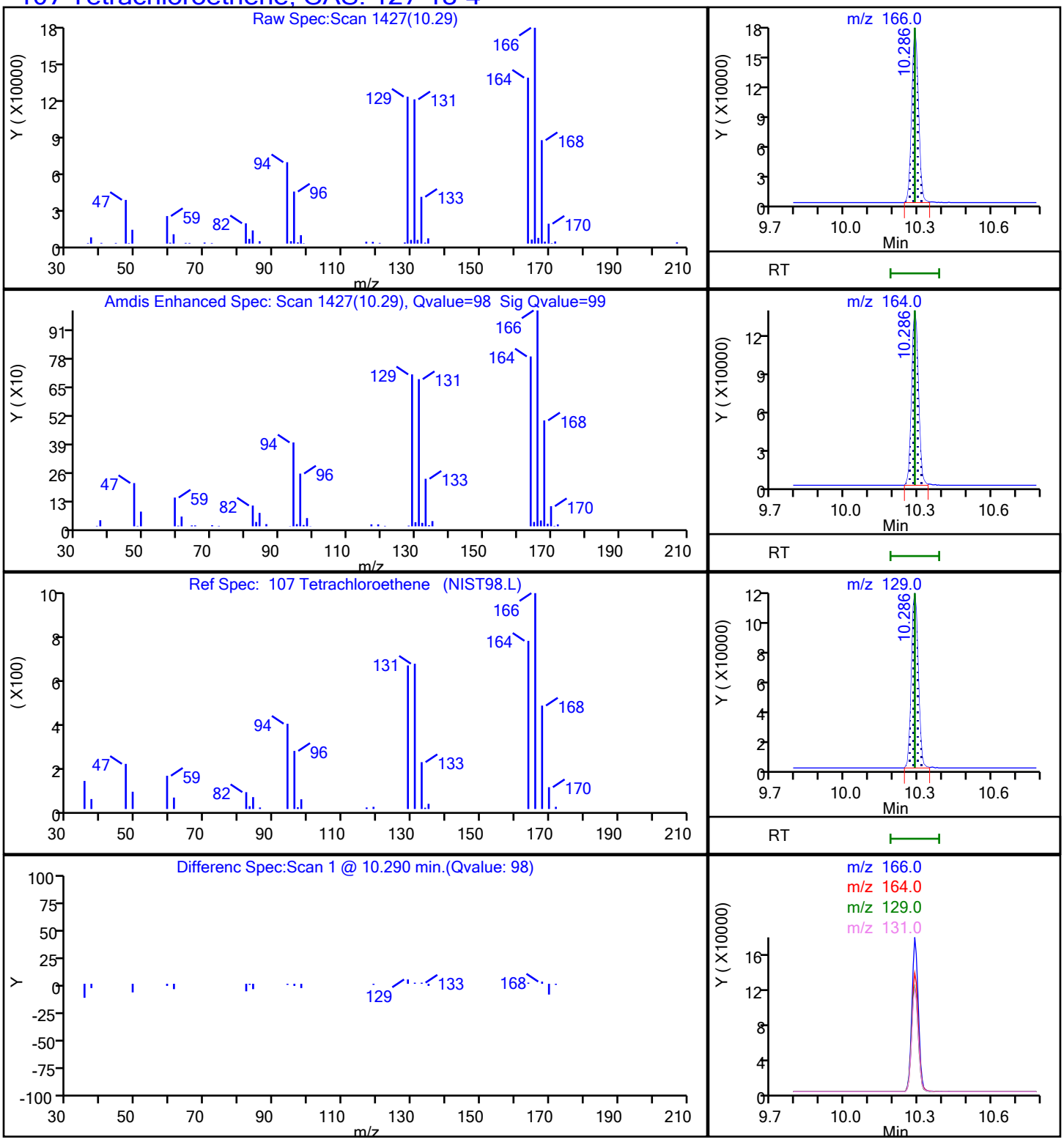
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X15.D				
Injection Date:	05-Oct-2022 14:10:30	Instrument ID:	19094		
Lims ID:	410-99372-A-6	Lab Sample ID:	410-99372-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

107 Tetrachloroethene, CAS: 127-18-4

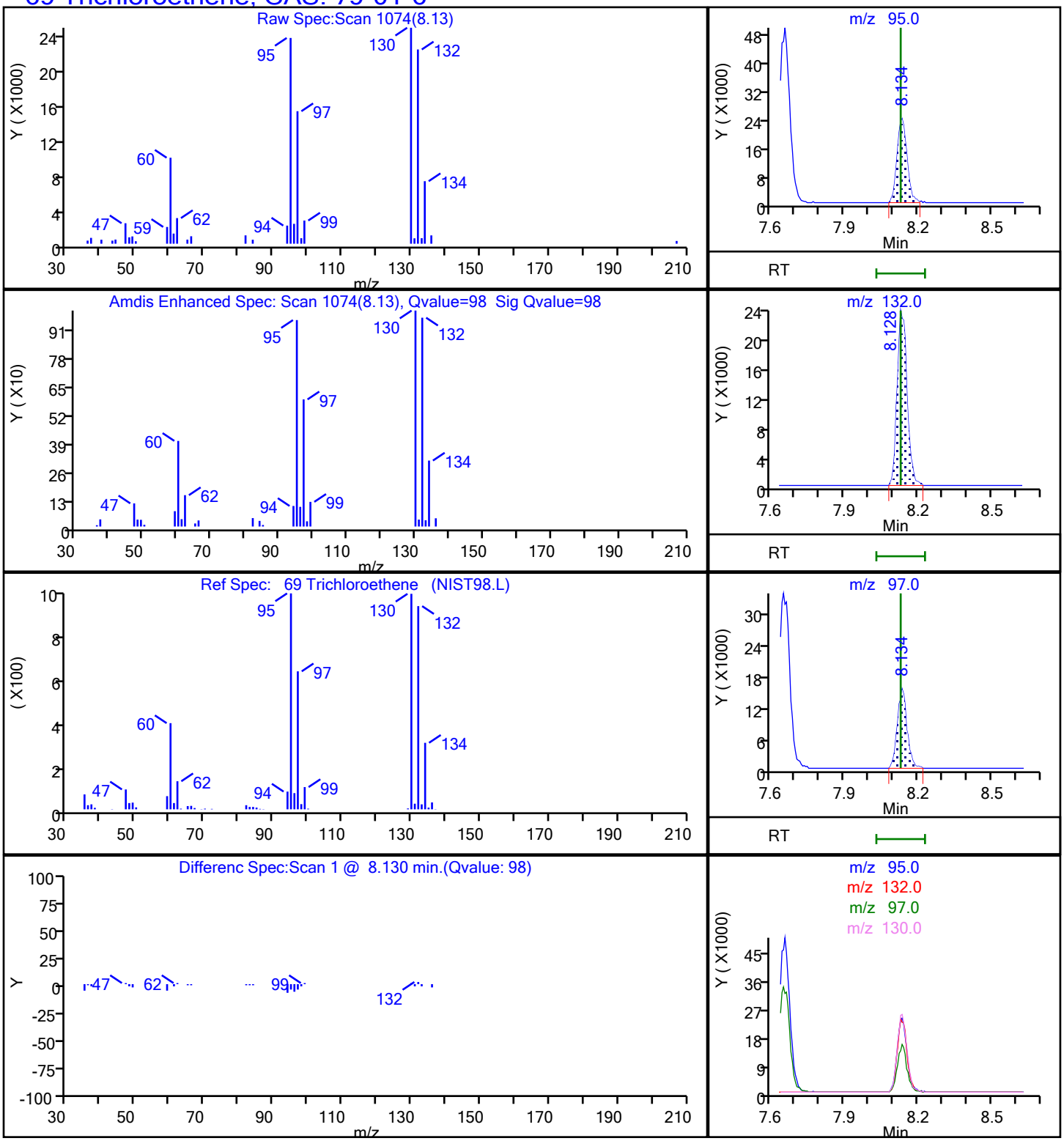


Report Date: 06-Oct-2022 14:07:33 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X15.D				
Injection Date:	05-Oct-2022 14:10:30	Instrument ID:	19094		
Lims ID:	410-99372-A-6	Lab Sample ID:	410-99372-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

69 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

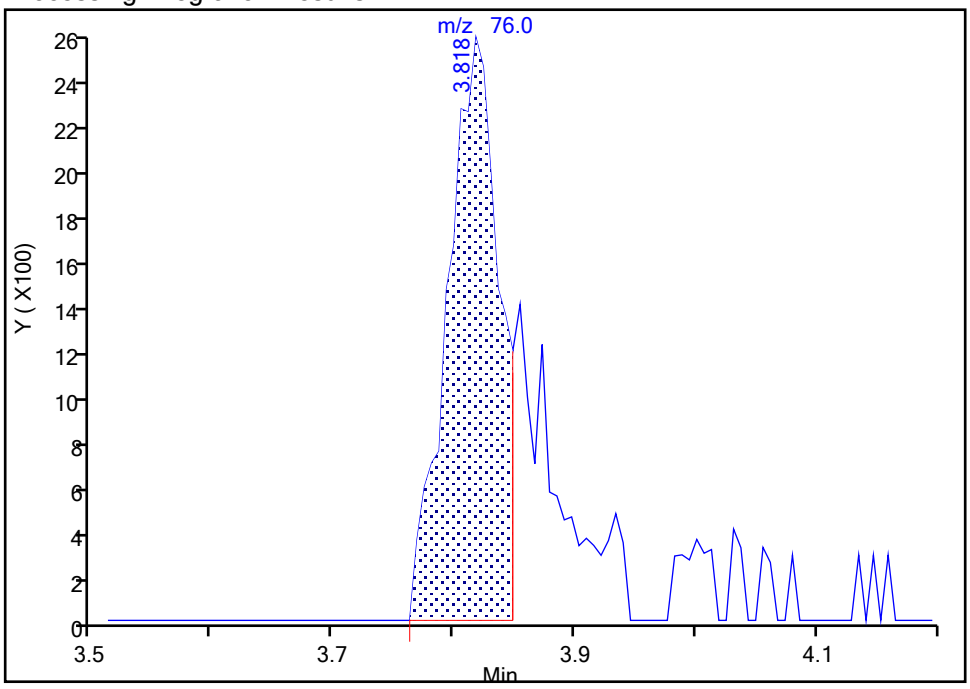
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X15.D				
Injection Date:	05-Oct-2022 14:10:30	Instrument ID:	19094		
Lims ID:	410-99372-A-6	Lab Sample ID:	410-99372-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

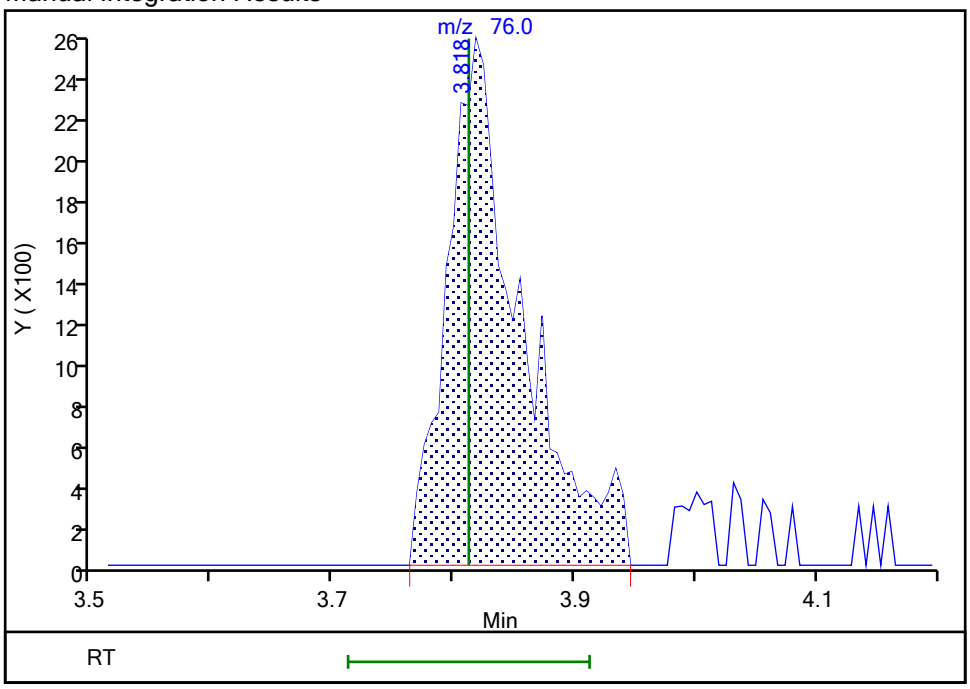
Processing Integration Results

RT: 3.82
Area: 7569
Amount: 0.065245
Amount Units: ug/l



Manual Integration Results

RT: 3.82
Area: 10734
Amount: 0.092527
Amount Units: ug/l



Reviewer: pongsawatp, 06-Oct-2022 14:06:57

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.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0 Lab Sample ID: 410-99372-7

Matrix: Water Lab File ID: HO05X18.D

Analysis Method: 8260D Date Collected: 09/23/2022 09:35

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 15:11

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 303234 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	0.086	J	0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.3	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	0.16	J cn	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.15	J	0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	1.4		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.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0 Lab Sample ID: 410-99372-7

Matrix: Water Lab File ID: HO05X18.D

Analysis Method: 8260D Date Collected: 09/23/2022 09:35

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 15:11

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 303234 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)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		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\19094\20221005-67970.b\HO05X18.D
Lims ID: 410-99372-A-7
Client ID: HD-COD-SW-16-0/1-0
Sample Type: Client
Inject. Date: 05-Oct-2022 15:11:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0067970-019
Operator ID: knk41612 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2022 14:09:58 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:09:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.117	2.123	-0.006	91	4320	0.0665	
7 Vinyl chloride	62		2.239				ND	7
9 Bromomethane	94		2.575				ND	
10 Chloroethane	64		2.654				ND	
18 1,1-Dichloroethene	96		3.513				ND	
19 Acetone	43	3.568	3.532	0.036	94	8509	1.26	
24 Carbon disulfide	76	3.830	3.812	0.018	98	19191	0.1629	M
* 29 t-Butyl alcohol-d10 (IS)	65	4.172	4.166	0.006	25	105258	50.0	
28 Methylene Chloride	84		4.166				ND	
33 Methyl tert-butyl ether	73		4.568				ND	
34 trans-1,2-Dichloroethene	96		4.592				ND	
37 1,1-Dichloroethane	63		5.245				ND	7
42 2-Butanone (MEK)	43		6.019				ND	7
43 cis-1,2-Dichloroethene	96	6.068	6.068	0.000	80	7874	0.1466	
49 Chlorobromomethane	128		6.397				ND	
52 Chloroform	83	6.568	6.549	0.019	93	5267	0.0611	
$ 53 Dibromofluoromethane (Surr)	113	6.763	6.757	0.006	94	427889	9.99	
54 1,1,1-Trichloroethane	97	6.775	6.781	-0.006	36	6935	0.0864	
57 Carbon tetrachloride	117		6.988				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.220	7.214	0.006	52	80917	10.4	
60 Benzene	78		7.244				ND	7
62 1,2-Dichloroethane	62		7.311				ND	
* 65 Fluorobenzene (IS)	96	7.653	7.653	0.000	99	1692318	10.0	
69 Trichloroethene	95	8.134	8.128	0.006	94	7759	0.1393	M
71 1,2-Dichloropropane	63		8.458				ND	
77 Dichlorobromomethane	83		8.799				ND	
81 cis-1,3-Dichloropropene	75		9.348				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.512				ND	7
$ 84 Toluene-d8 (Surr)	98	9.658	9.658	0.000	93	1775514	10.3	
85 Toluene	92	9.744	9.732	0.012	98	3682	0.0289	
86 trans-1,3-Dichloropropene	75		9.988				ND	
106 1,1,2-Trichloroethane	97		10.195				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.292	10.286	0.006	97	83614	1.42	
109 2-Hexanone	43		10.402				ND	
111 Chlorodibromomethane	129		10.573				ND	
112 Ethylene Dibromide	107		10.683				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.115	11.109	0.006	85	1403446	10.0	
115 Chlorobenzene	112		11.140				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.219				ND	
118 Ethylbenzene	91		11.225				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.341				ND	7
120 o-Xylene	106		11.664				ND	7
121 Styrene	104		11.682				ND	7
122 Bromoform	173		11.841				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	91	676826	9.71	
127 1,1,2,2-Tetrachloroethane	83		12.207				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	95	754833	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_HP25_ISSS_00057 Amount Added: 1.00 Units: uL Run Reagent

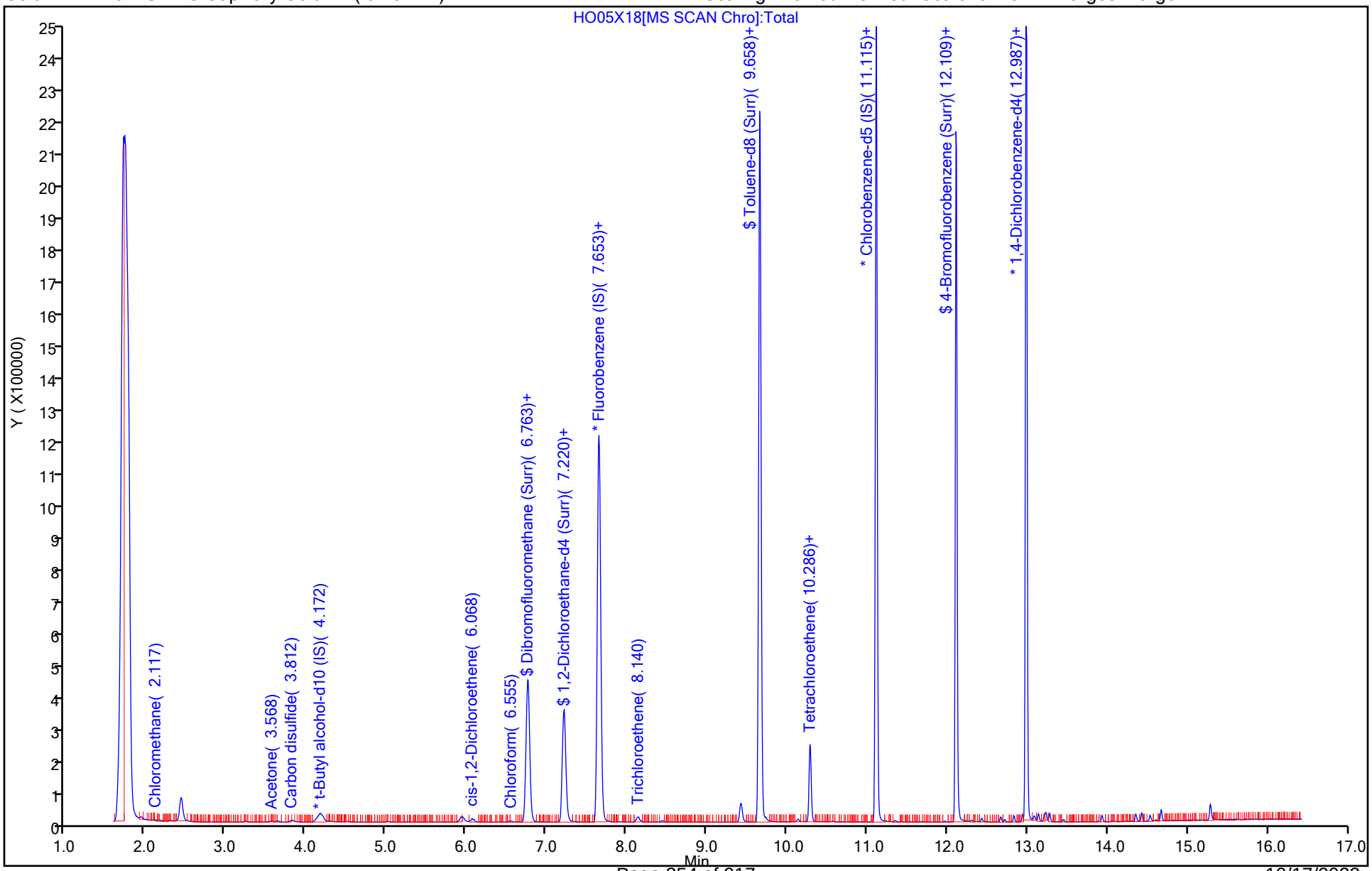
Report Date: 06-Oct-2022 14:09:59 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X18.D

Injection Date:	05-Oct-2022 15:11:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	410-99372-A-7	Lab Sample ID:	410-99372-7	Worklist Smp#:	19
Client ID:	HD-COD-SW-16-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X18.D				
Lims ID:	410-99372-A-7				
Client ID:	HD-COD-SW-16-0/1-0				
Sample Type:	Client				
Inject. Date:	05-Oct-2022 15:11:30	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0067970-019				
Operator ID:	knk41612	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Oct-2022 14:09:58	Calib Date:	11-Jul-2022 18:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1671				

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:09:58

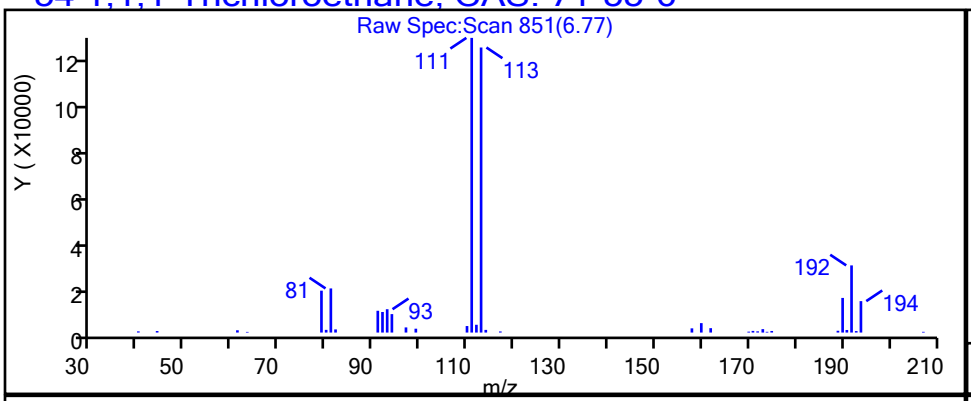
Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	9.99	99.90
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	103.53
$ 84 Toluene-d8 (Surr)	10.0	10.3	103.41
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.71	97.10

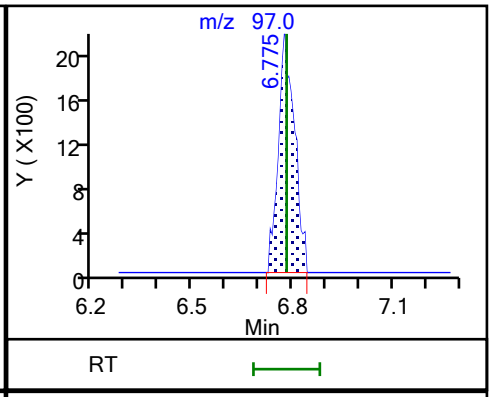
Report Date: 06-Oct-2022 14:09:59 Chrom Revision: 2.3 22-Sep-2022 21:23:26

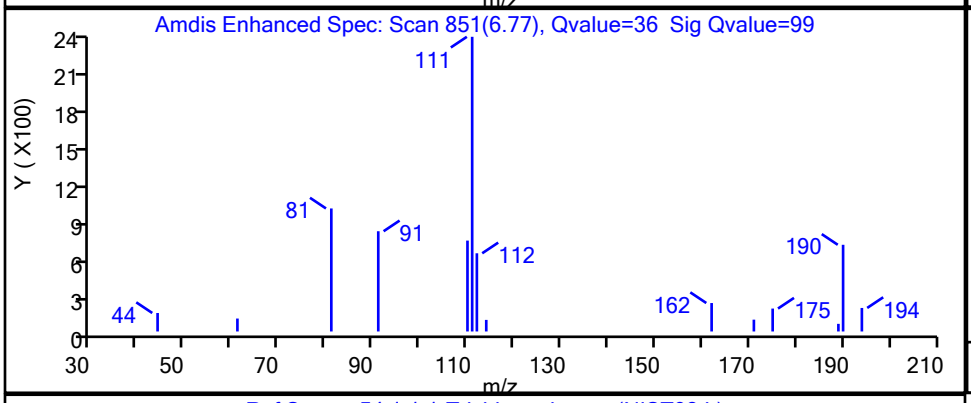
Eurofins Lancaster Laboratories Environment Testing, LLC

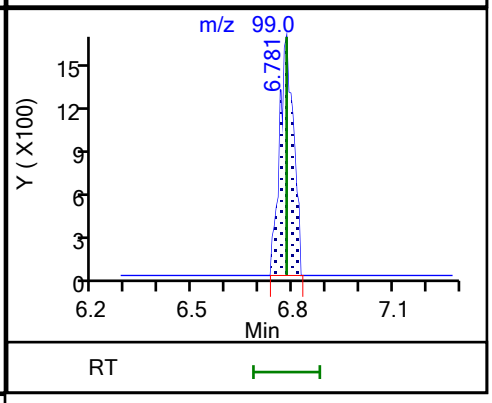
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X18.D				
Injection Date:	05-Oct-2022 15:11:30	Instrument ID:	19094		
Lims ID:	410-99372-A-7	Lab Sample ID:	410-99372-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

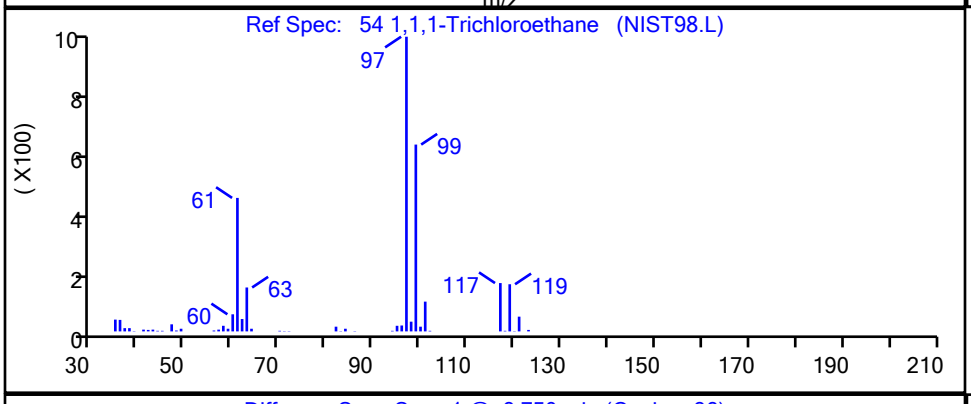
54 1,1,1-Trichloroethane, CAS: 71-55-6

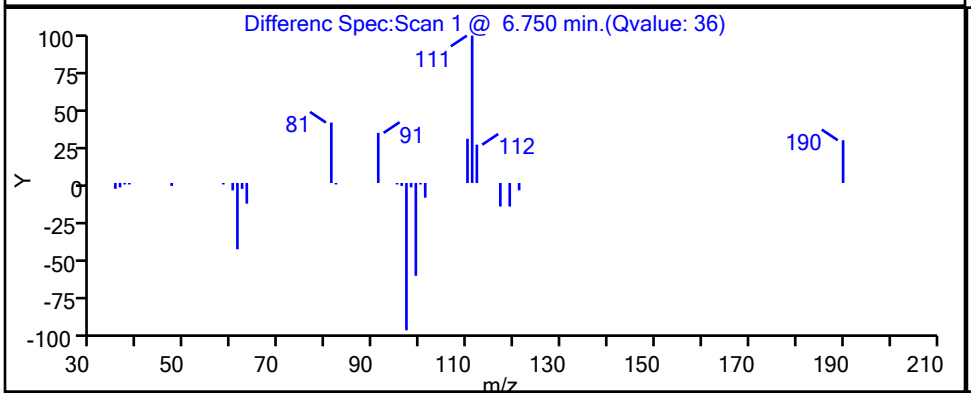


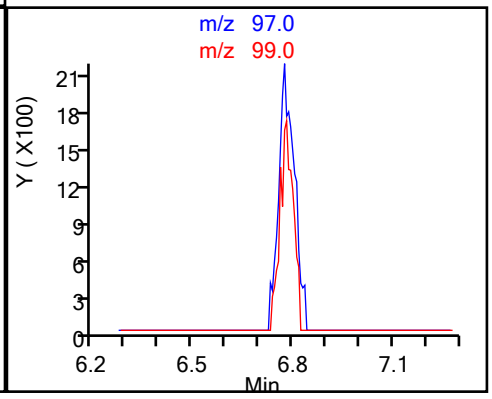








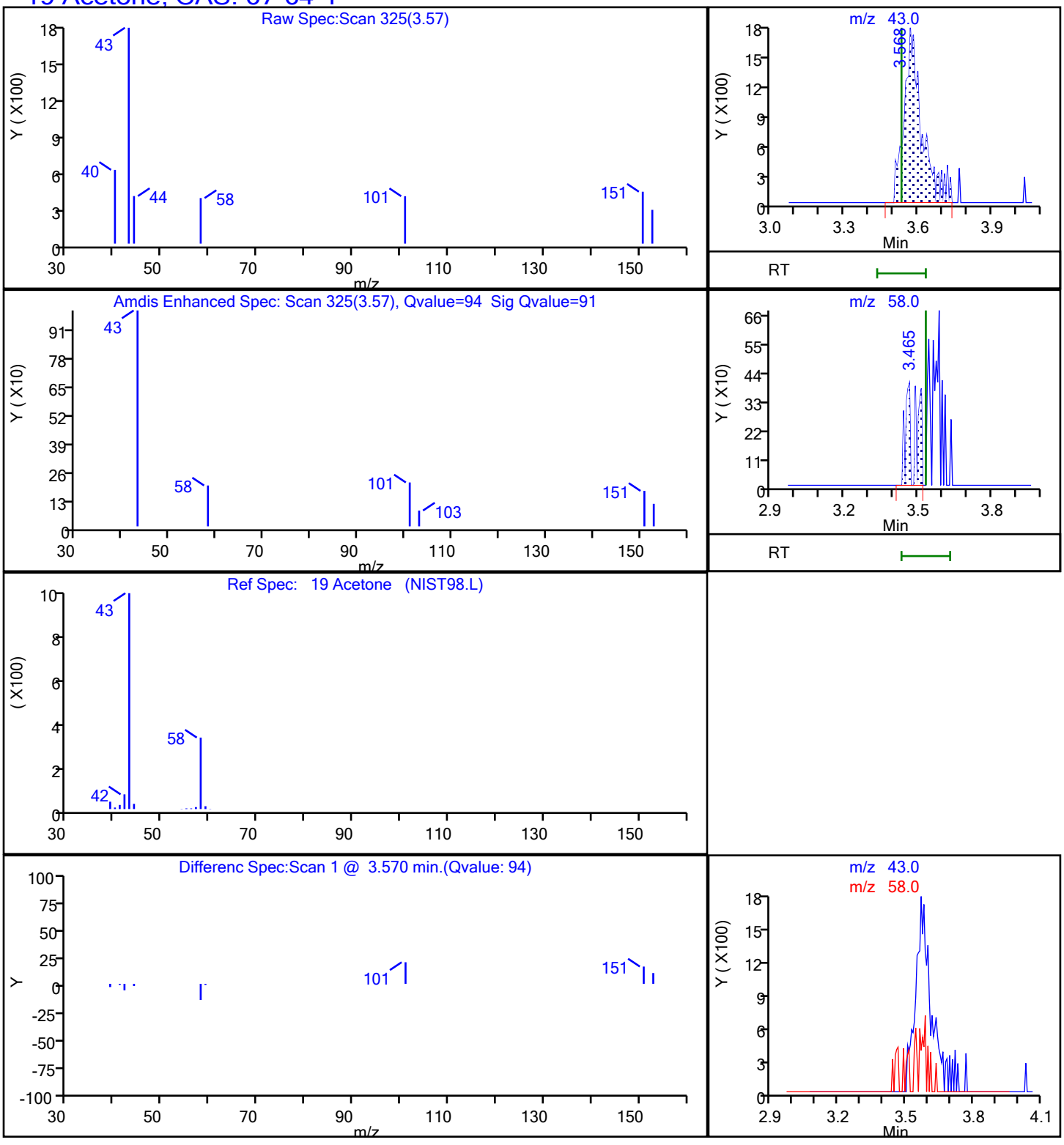




Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X18.D				
Injection Date:	05-Oct-2022 15:11:30	Instrument ID:	19094		
Lims ID:	410-99372-A-7	Lab Sample ID:	410-99372-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

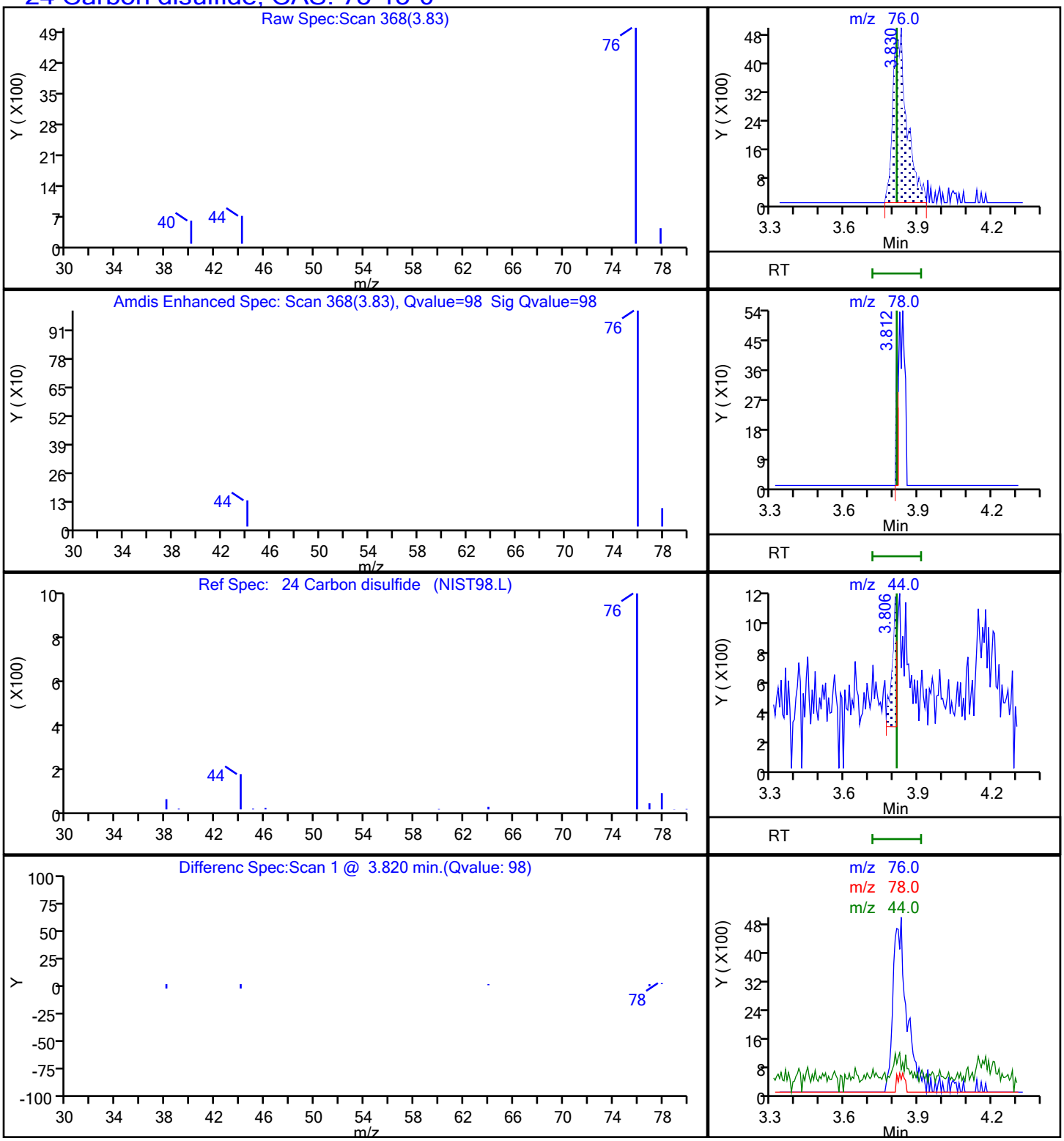
19 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X18.D				
Injection Date:	05-Oct-2022 15:11:30	Instrument ID:	19094		
Lims ID:	410-99372-A-7	Lab Sample ID:	410-99372-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

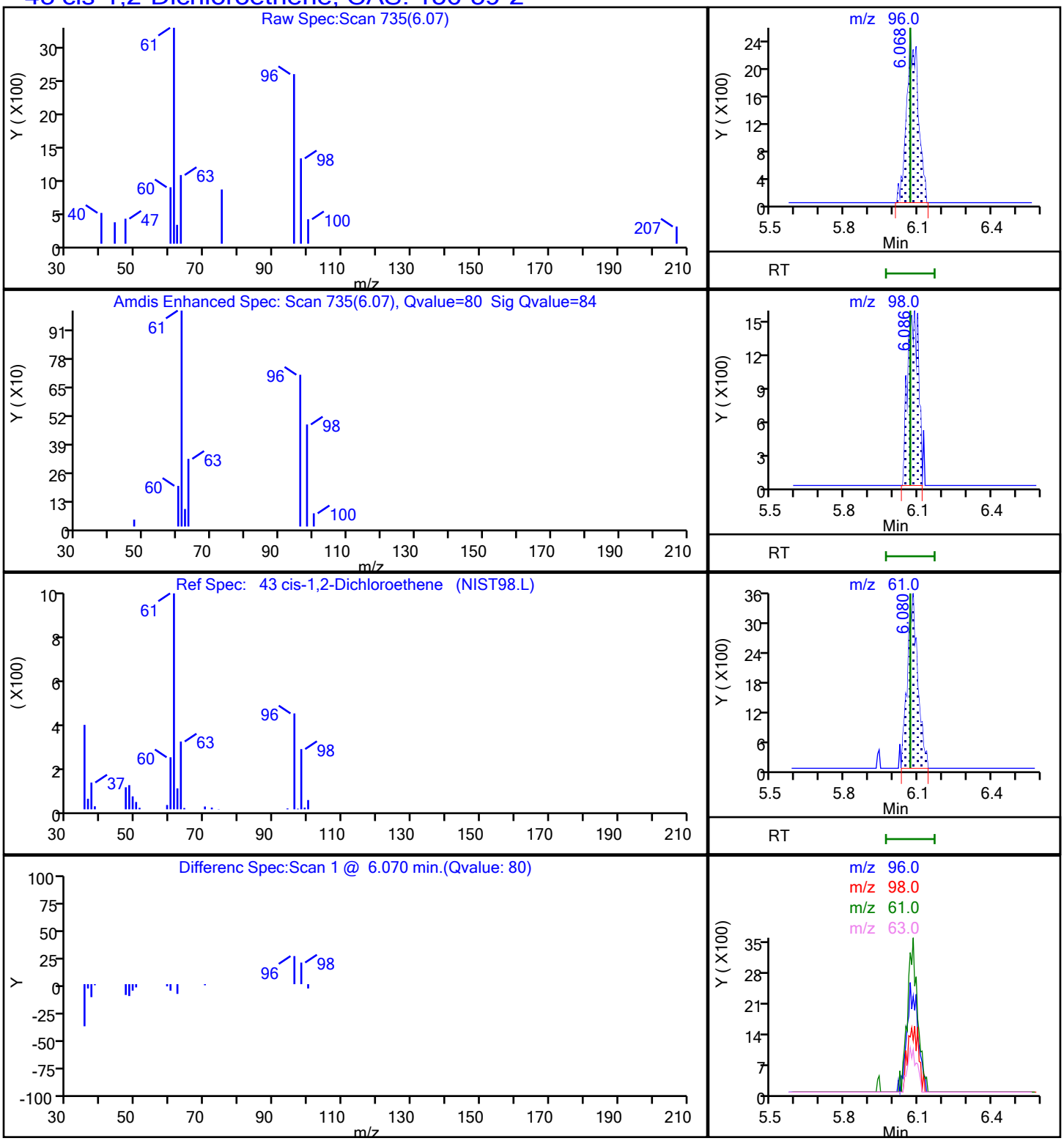
24 Carbon disulfide, CAS: 75-15-0



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X18.D				
Injection Date:	05-Oct-2022 15:11:30	Instrument ID:	19094		
Lims ID:	410-99372-A-7	Lab Sample ID:	410-99372-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

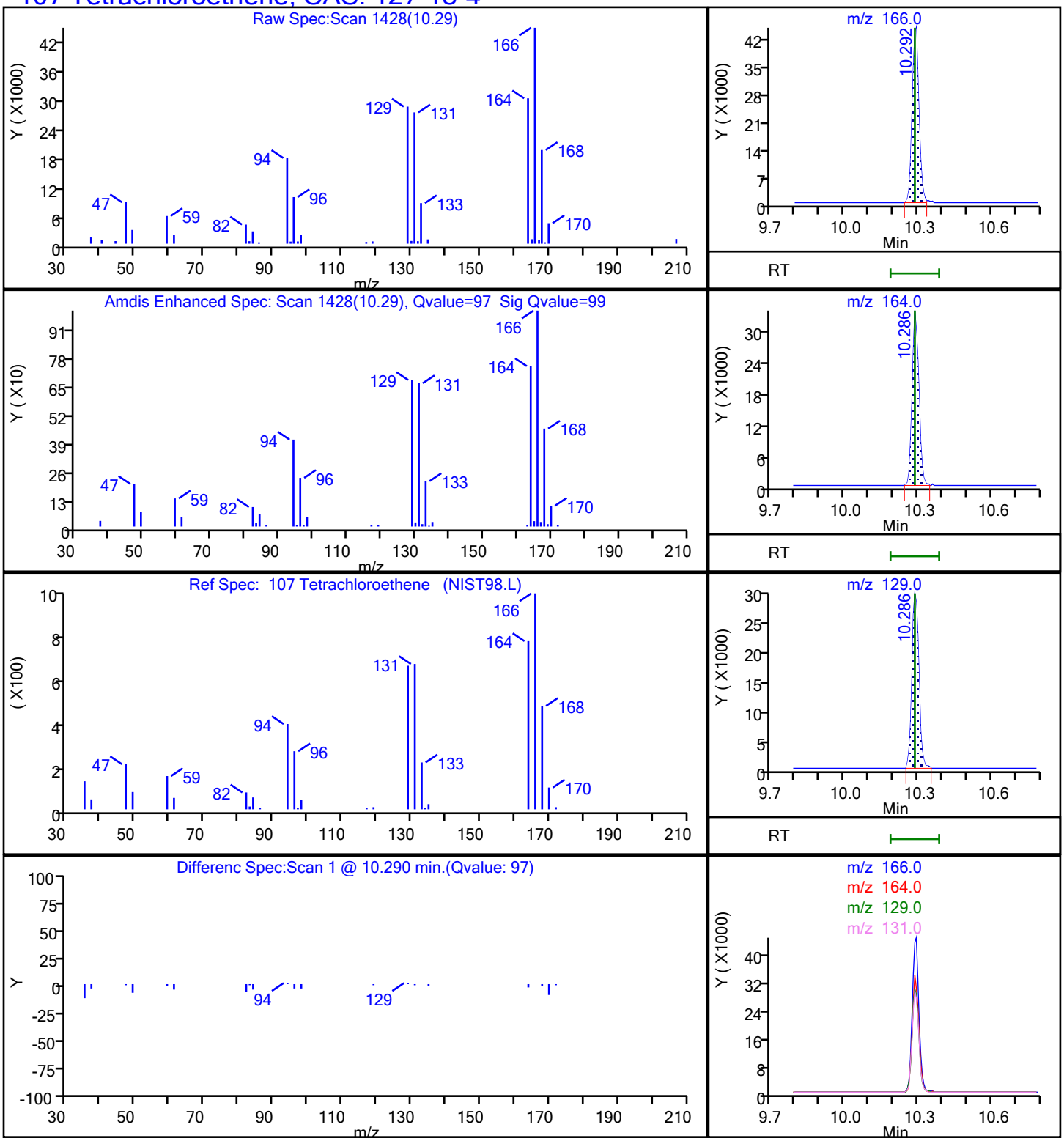


Report Date: 06-Oct-2022 14:09:59 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X18.D				
Injection Date:	05-Oct-2022 15:11:30	Instrument ID:	19094		
Lims ID:	410-99372-A-7	Lab Sample ID:	410-99372-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

107 Tetrachloroethene, CAS: 127-18-4

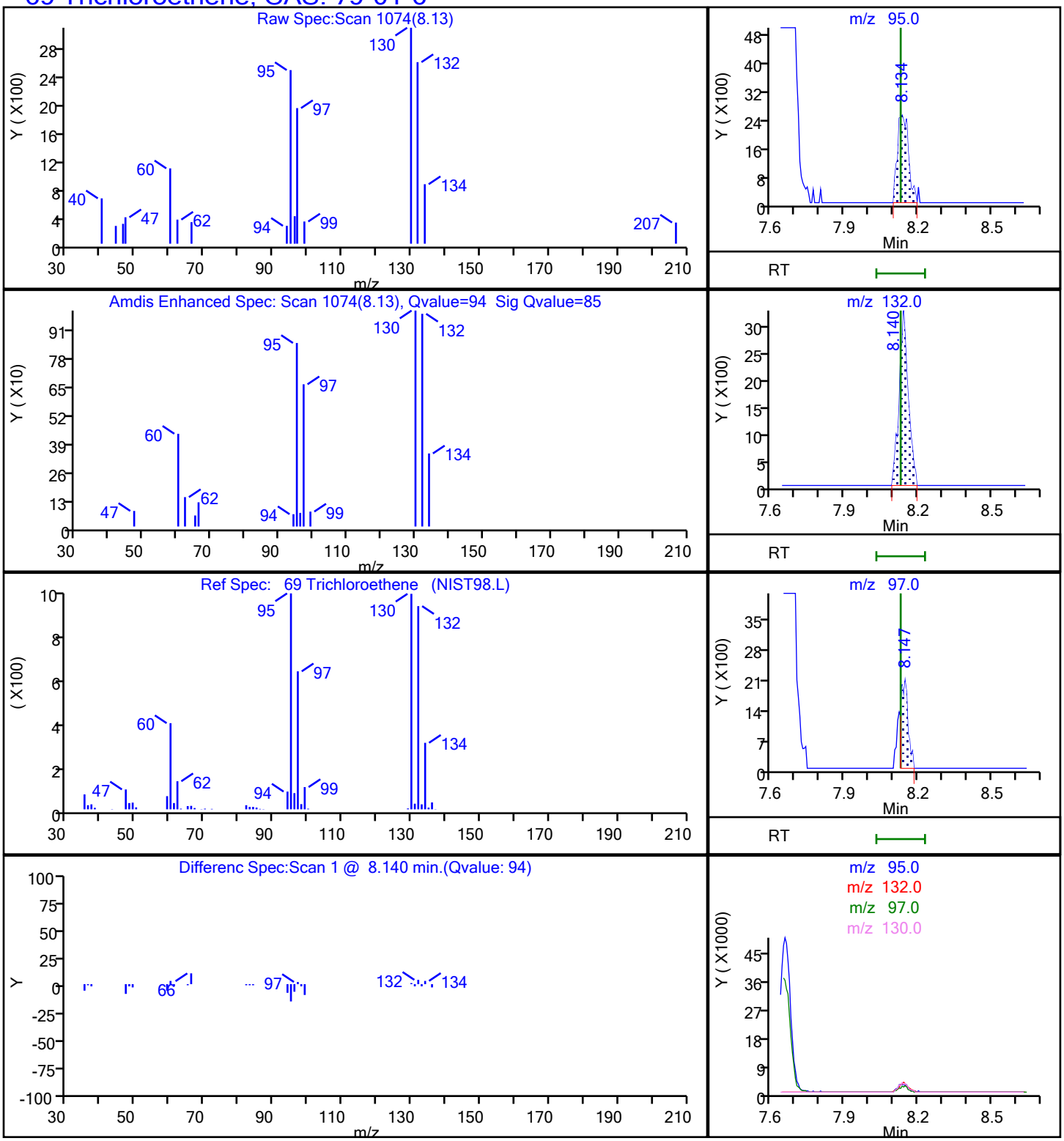


Report Date: 06-Oct-2022 14:09:59 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X18.D				
Injection Date:	05-Oct-2022 15:11:30	Instrument ID:	19094		
Lims ID:	410-99372-A-7	Lab Sample ID:	410-99372-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

69 Trichloroethene, CAS: 79-01-6



Eurofins Lancaster Laboratories Environment Testing, LLC

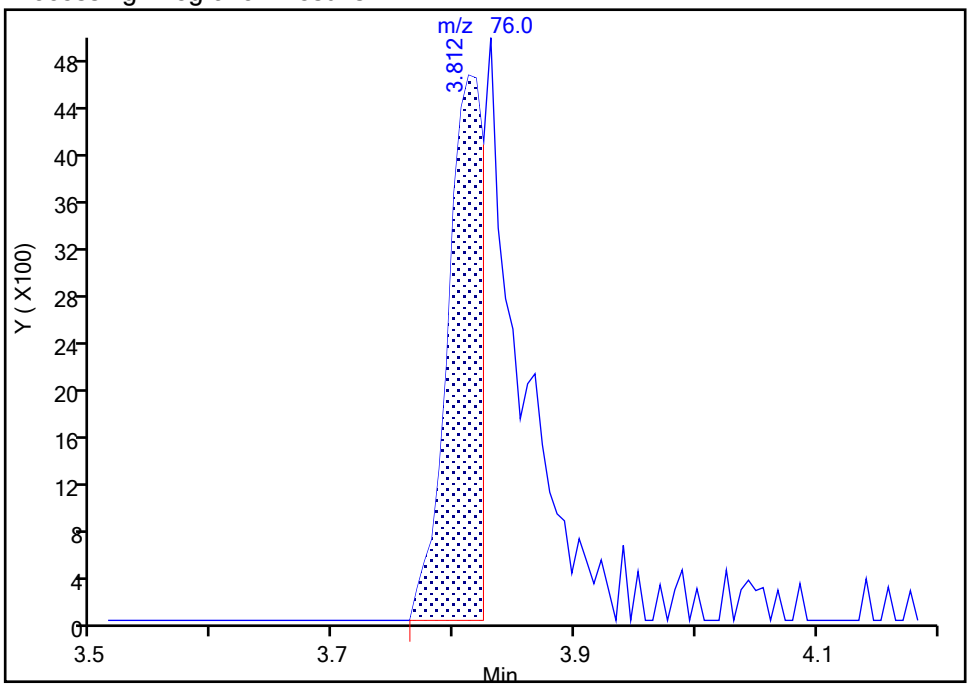
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X18.D				
Injection Date:	05-Oct-2022 15:11:30	Instrument ID:	19094		
Lims ID:	410-99372-A-7	Lab Sample ID:	410-99372-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

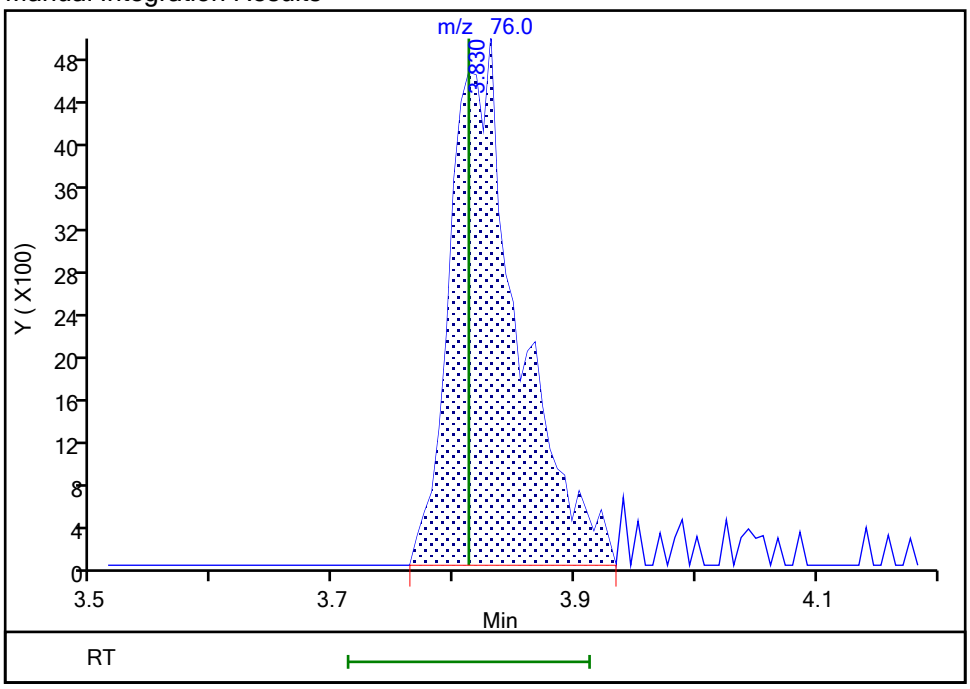
Processing Integration Results

RT: 3.81
Area: 9569
Amount: 0.081220
Amount Units: ug/l



Manual Integration Results

RT: 3.83
Area: 19191
Amount: 0.162891
Amount Units: ug/l



Reviewer: pongsawatp, 06-Oct-2022 14:09:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

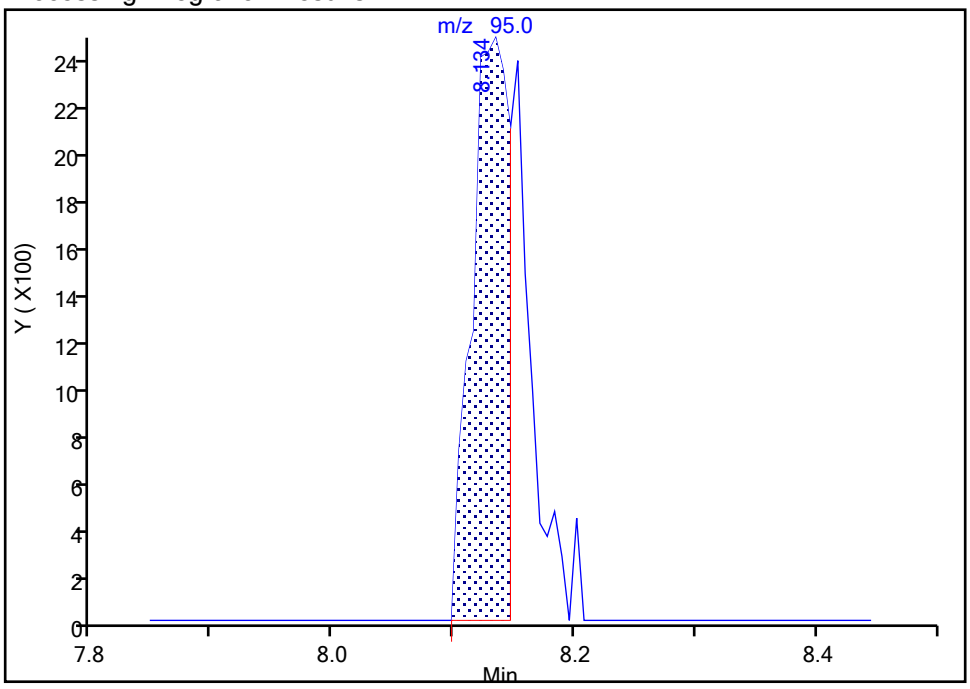
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X18.D				
Injection Date:	05-Oct-2022 15:11:30	Instrument ID:	19094		
Lims ID:	410-99372-A-7	Lab Sample ID:	410-99372-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

69 Trichloroethene, CAS: 79-01-6

Signal: 1

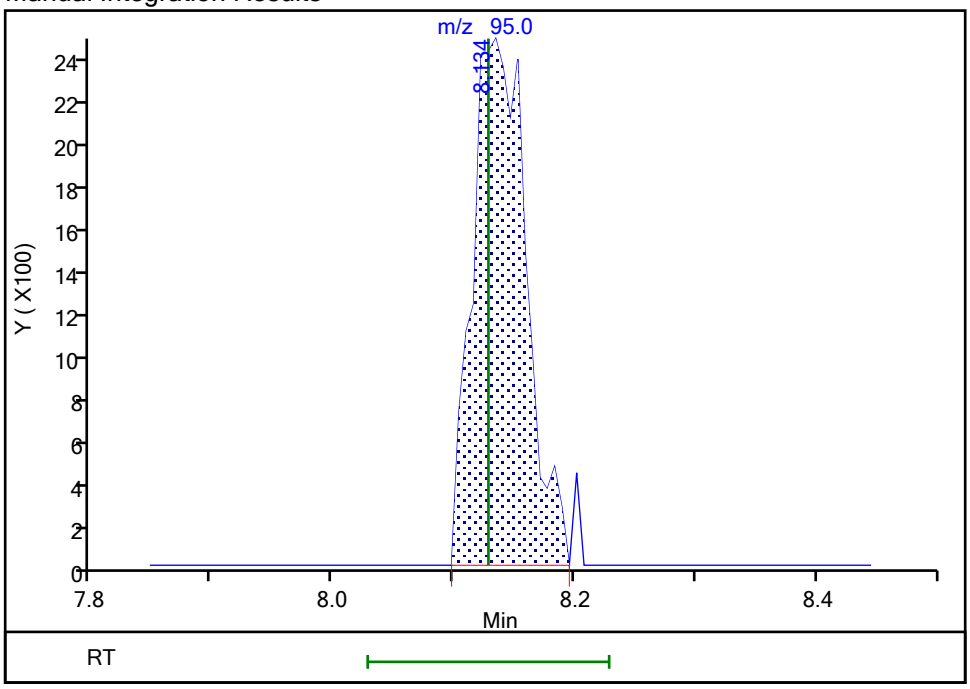
Processing Integration Results

RT: 8.13
Area: 5428
Amount: 0.097439
Amount Units: ug/l



Manual Integration Results

RT: 8.13
Area: 7759
Amount: 0.139284
Amount Units: ug/l



Reviewer: pongsawatp, 06-Oct-2022 14:09:44

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.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0 Lab Sample ID: 410-99372-8

Matrix: Water Lab File ID: HO05X19.D

Analysis Method: 8260D Date Collected: 09/23/2022 09:55

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 15:31

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 303234 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.9		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	1.2		0.50	0.10
75-35-4	1,1-Dichloroethene	0.57		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	2.9		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.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0 Lab Sample ID: 410-99372-8

Matrix: Water Lab File ID: HO05X19.D

Analysis Method: 8260D Date Collected: 09/23/2022 09:55

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 15:31

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 303234 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	4.6		0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		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\19094\20221005-67970.b\HO05X19.D
Lims ID: 410-99372-A-8
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 05-Oct-2022 15:31:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0067970-020
Operator ID: knk41612 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2022 14:11:24 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:11:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.123				ND	
7 Vinyl chloride	62		2.239				ND	
9 Bromomethane	94		2.575				ND	
10 Chloroethane	64		2.654				ND	
18 1,1-Dichloroethene	96	3.519	3.513	0.006	98	25182	0.5749	
19 Acetone	43		3.532				ND	
24 Carbon disulfide	76	3.812	3.812	0.000	95	10833	0.0924	M
* 29 t-Butyl alcohol-d10 (IS)	65	4.178	4.166	0.012	19	102535	50.0	
28 Methylene Chloride	84		4.166				ND	
33 Methyl tert-butyl ether	73	4.562	4.568	-0.006	1	3380	0.0345	
34 trans-1,2-Dichloroethene	96		4.592				ND	7
37 1,1-Dichloroethane	63	5.251	5.245	0.006	96	108399	1.19	
42 2-Butanone (MEK)	43		6.019				ND	
43 cis-1,2-Dichloroethene	96	6.080	6.068	0.012	79	155637	2.91	
49 Chlorobromomethane	128		6.397				ND	
52 Chloroform	83	6.555	6.549	0.006	92	25754	0.3001	
$ 53 Dibromofluoromethane (Surr)	113	6.769	6.757	0.012	94	422547	9.91	
54 1,1,1-Trichloroethane	97	6.787	6.781	0.006	98	469722	5.88	
57 Carbon tetrachloride	117	7.000	6.988	0.012	1	2096	0.0303	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.214	7.214	0.000	52	81140	10.4	
60 Benzene	78		7.244				ND	7
62 1,2-Dichloroethane	62		7.311				ND	7
* 65 Fluorobenzene (IS)	96	7.653	7.653	0.000	99	1684248	10.0	
69 Trichloroethene	95	8.134	8.128	0.006	98	255281	4.60	
71 1,2-Dichloropropane	63		8.458				ND	
77 Dichlorobromomethane	83		8.799				ND	
81 cis-1,3-Dichloropropene	75		9.348				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.512				ND	
$ 84 Toluene-d8 (Surr)	98	9.665	9.658	0.007	93	1744840	10.3	
85 Toluene	92		9.732				ND	7
86 trans-1,3-Dichloropropene	75		9.988				ND	
106 1,1,2-Trichloroethane	97		10.195				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.286	10.286	0.000	98	4544736	77.9	E
109 2-Hexanone	43		10.402				ND	
111 Chlorodibromomethane	129		10.573				ND	7
112 Ethylene Dibromide	107		10.683				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.115	11.109	0.006	85	1389692	10.0	
115 Chlorobenzene	112		11.140				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.219				ND	
118 Ethylbenzene	91		11.225				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.341				ND	7
120 o-Xylene	106		11.664				ND	7
121 Styrene	104		11.682				ND	
122 Bromoform	173		11.841				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	91	668659	9.69	
127 1,1,2,2-Tetrachloroethane	83		12.207				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	95	755683	10.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

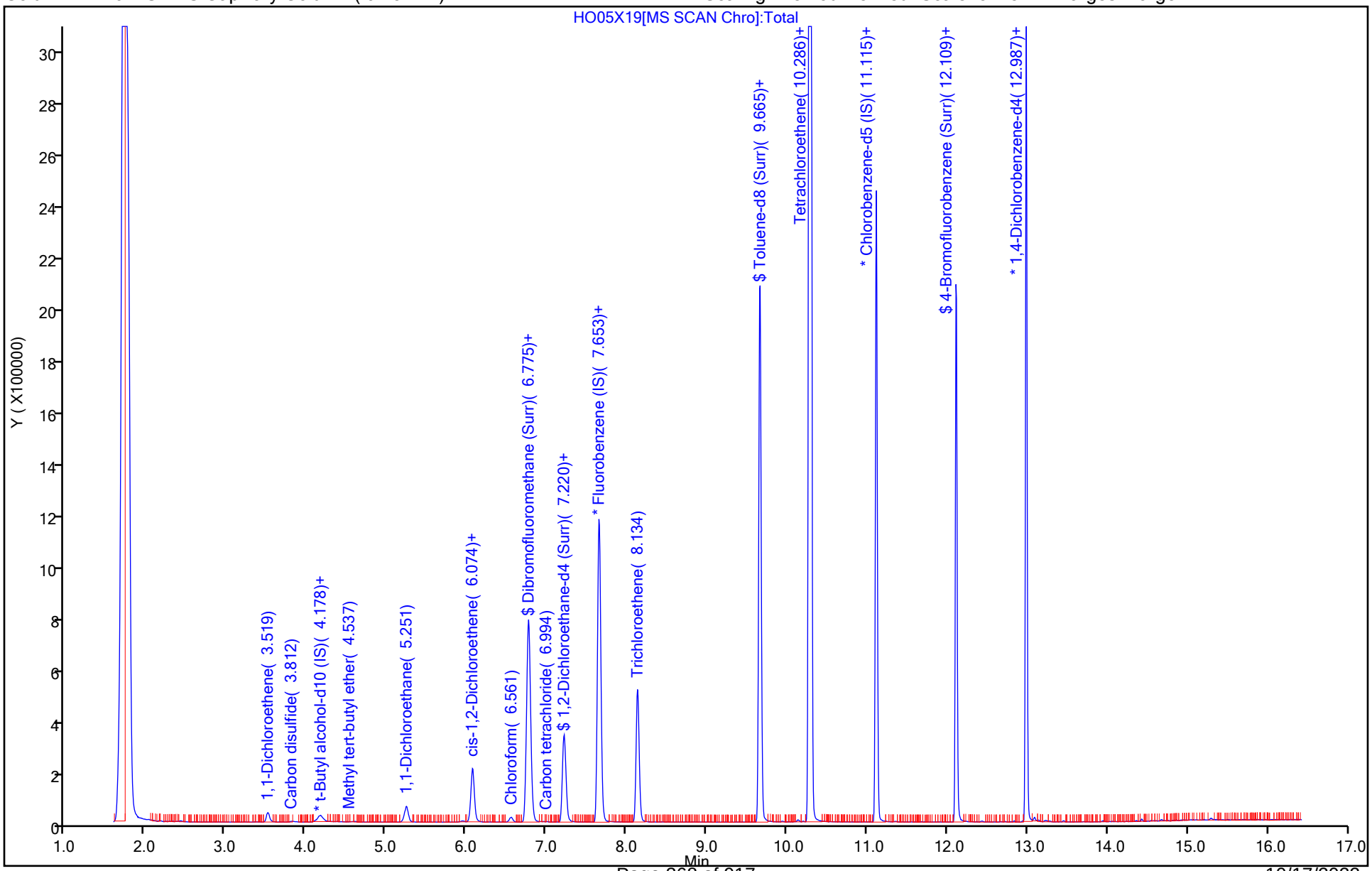
MSV_HP25_ISSS_00057 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 06-Oct-2022 14:11:25 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X19.D				
Injection Date:	05-Oct-2022 15:31:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	410-99372-A-8	Lab Sample ID:	410-99372-8	Worklist Smp#:	20
Client ID:	HD-COD-SW-17-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X19.D				
Lims ID:	410-99372-A-8				
Client ID:	HD-COD-SW-17-0/1-0				
Sample Type:	Client				
Inject. Date:	05-Oct-2022 15:31:30	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0067970-020				
Operator ID:	knk41612	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Oct-2022 14:11:24	Calib Date:	11-Jul-2022 18:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1671				

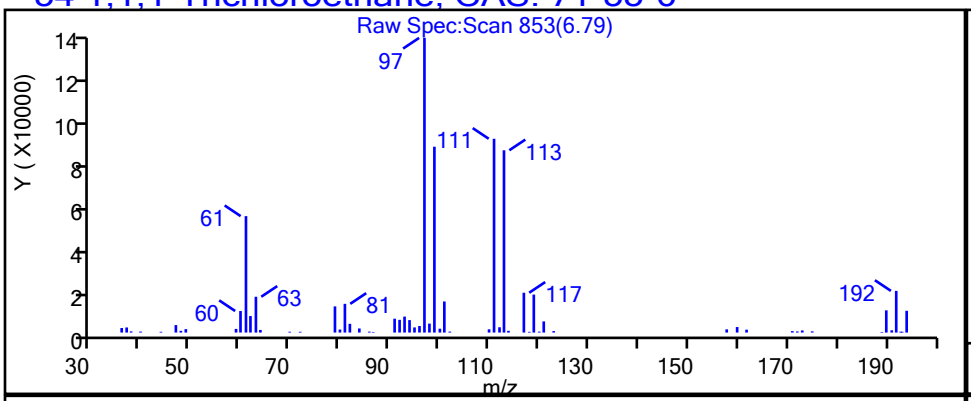
First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:11:24

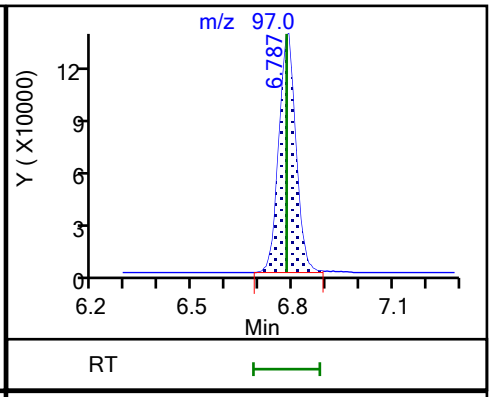
Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	9.91	99.12
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.31
$ 84 Toluene-d8 (Surr)	10.0	10.3	102.63
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.69	96.88

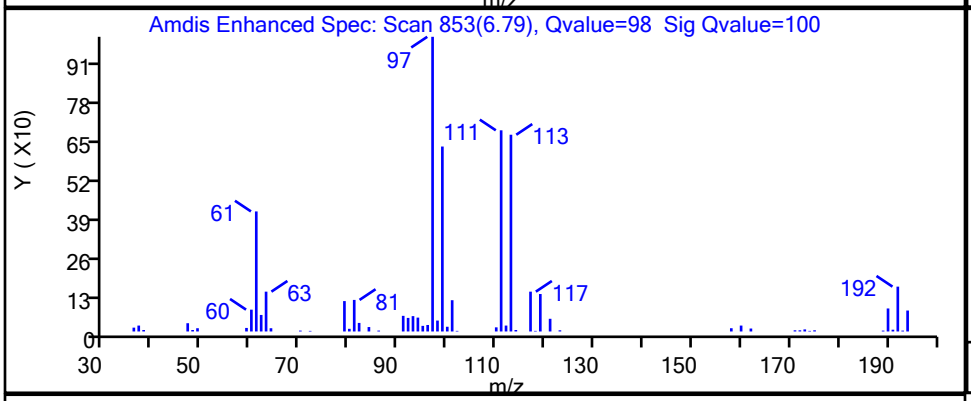
Eurofins Lancaster Laboratories Environment Testing, LLC

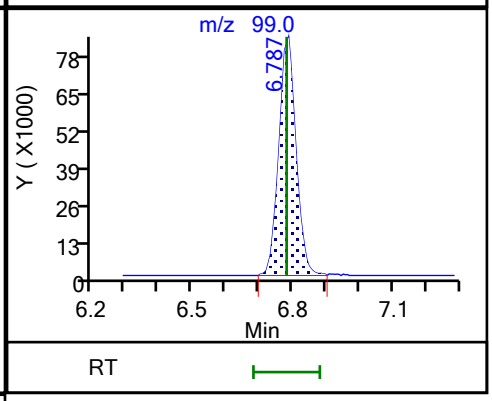
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X19.D				
Injection Date:	05-Oct-2022 15:31:30	Instrument ID:	19094		
Lims ID:	410-99372-A-8	Lab Sample ID:	410-99372-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

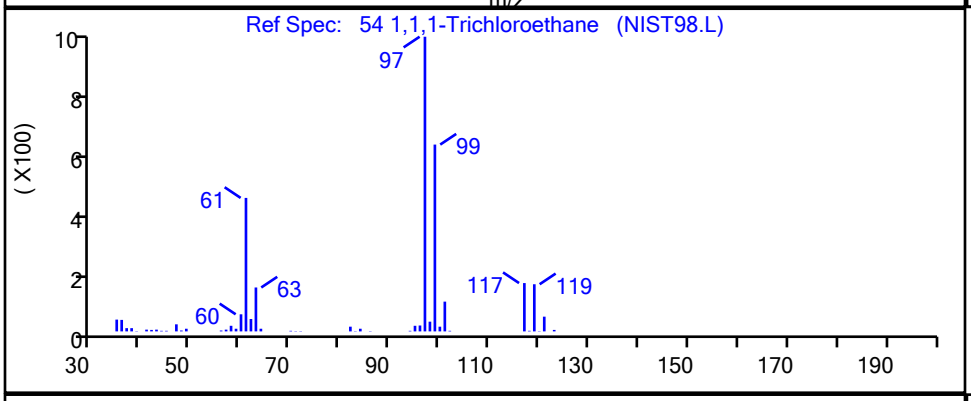
54 1,1,1-Trichloroethane, CAS: 71-55-6

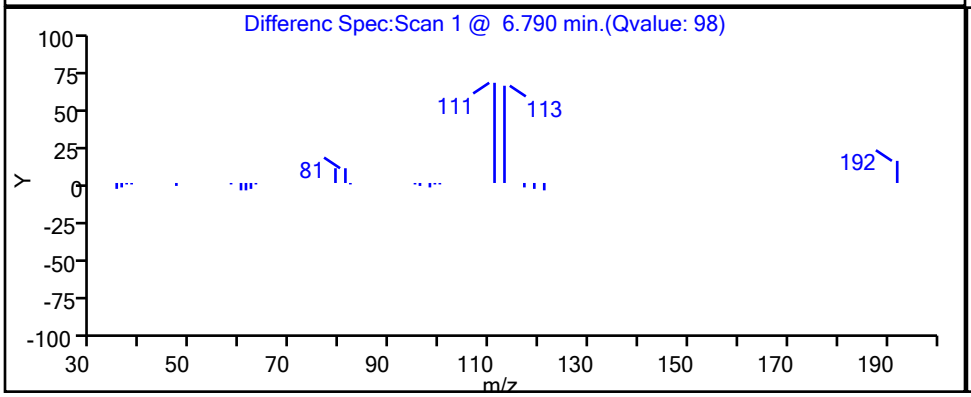


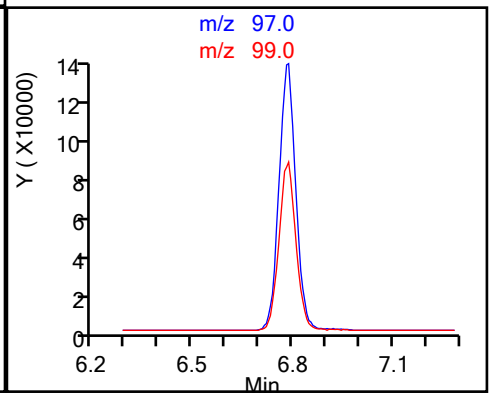








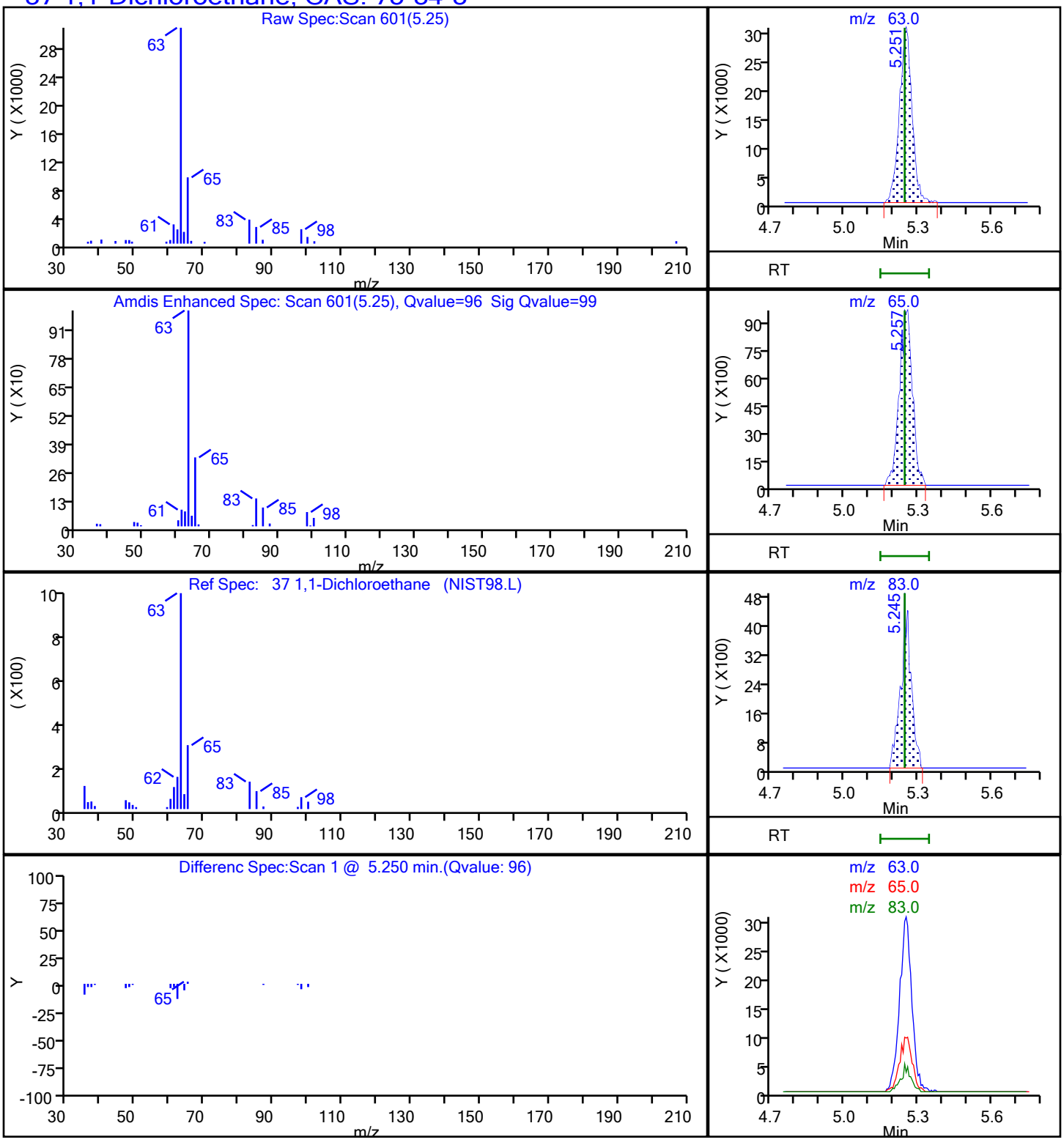




Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X19.D				
Injection Date:	05-Oct-2022 15:31:30	Instrument ID:	19094		
Lims ID:	410-99372-A-8	Lab Sample ID:	410-99372-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

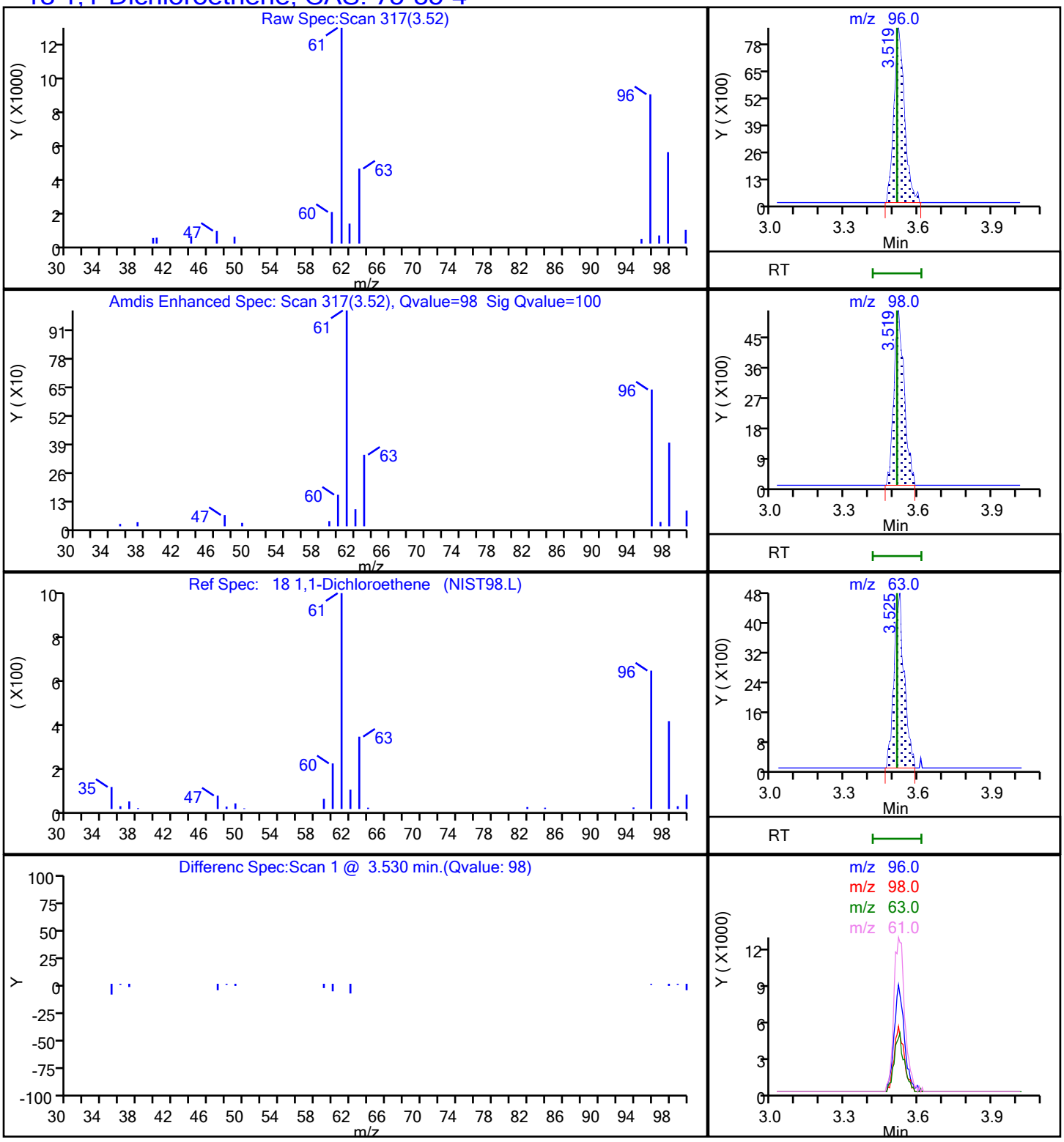
37 1,1-Dichloroethane, CAS: 75-34-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X19.D				
Injection Date:	05-Oct-2022 15:31:30	Instrument ID:	19094		
Lims ID:	410-99372-A-8	Lab Sample ID:	410-99372-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

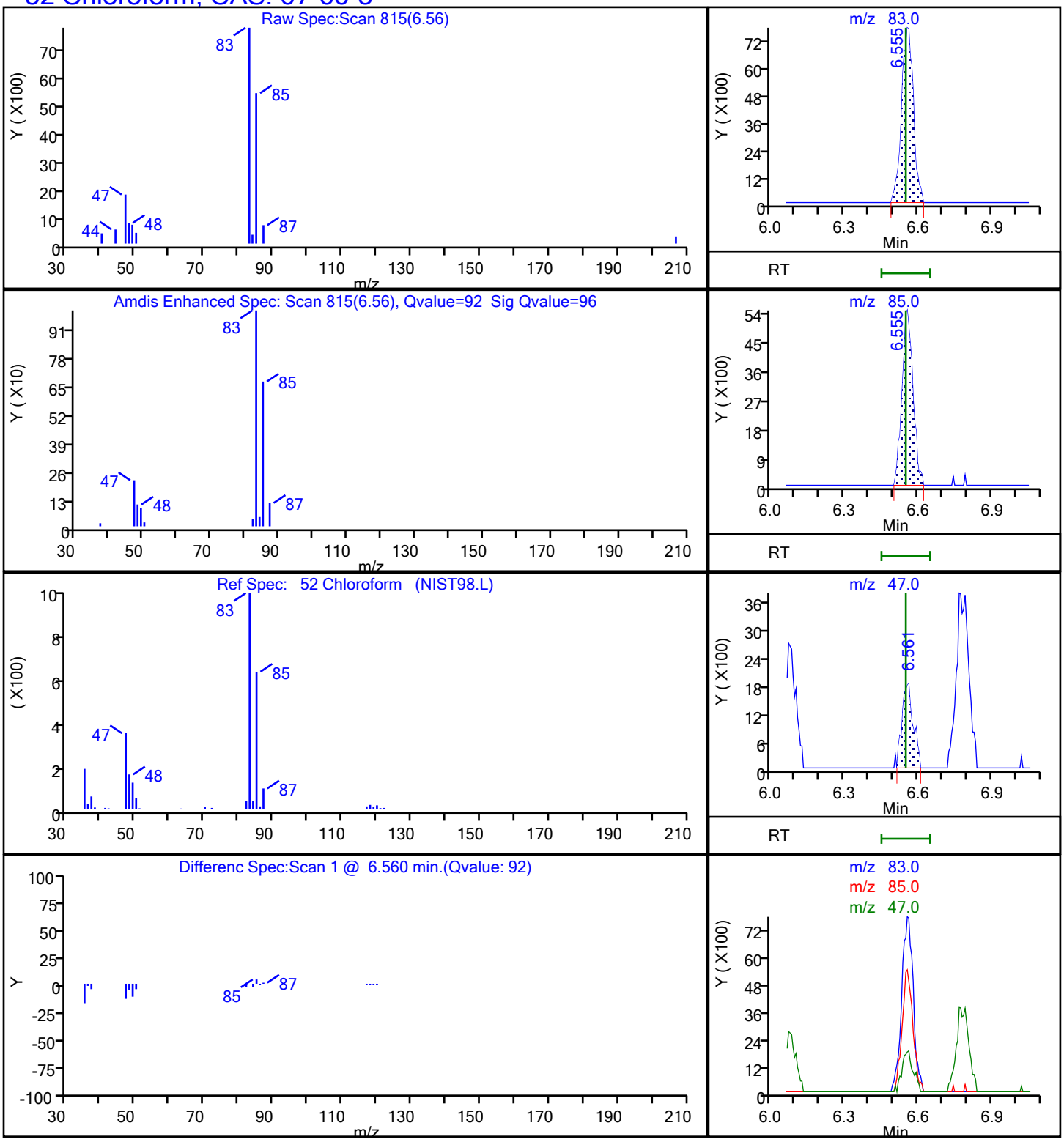
18 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X19.D				
Injection Date:	05-Oct-2022 15:31:30	Instrument ID:	19094		
Lims ID:	410-99372-A-8	Lab Sample ID:	410-99372-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

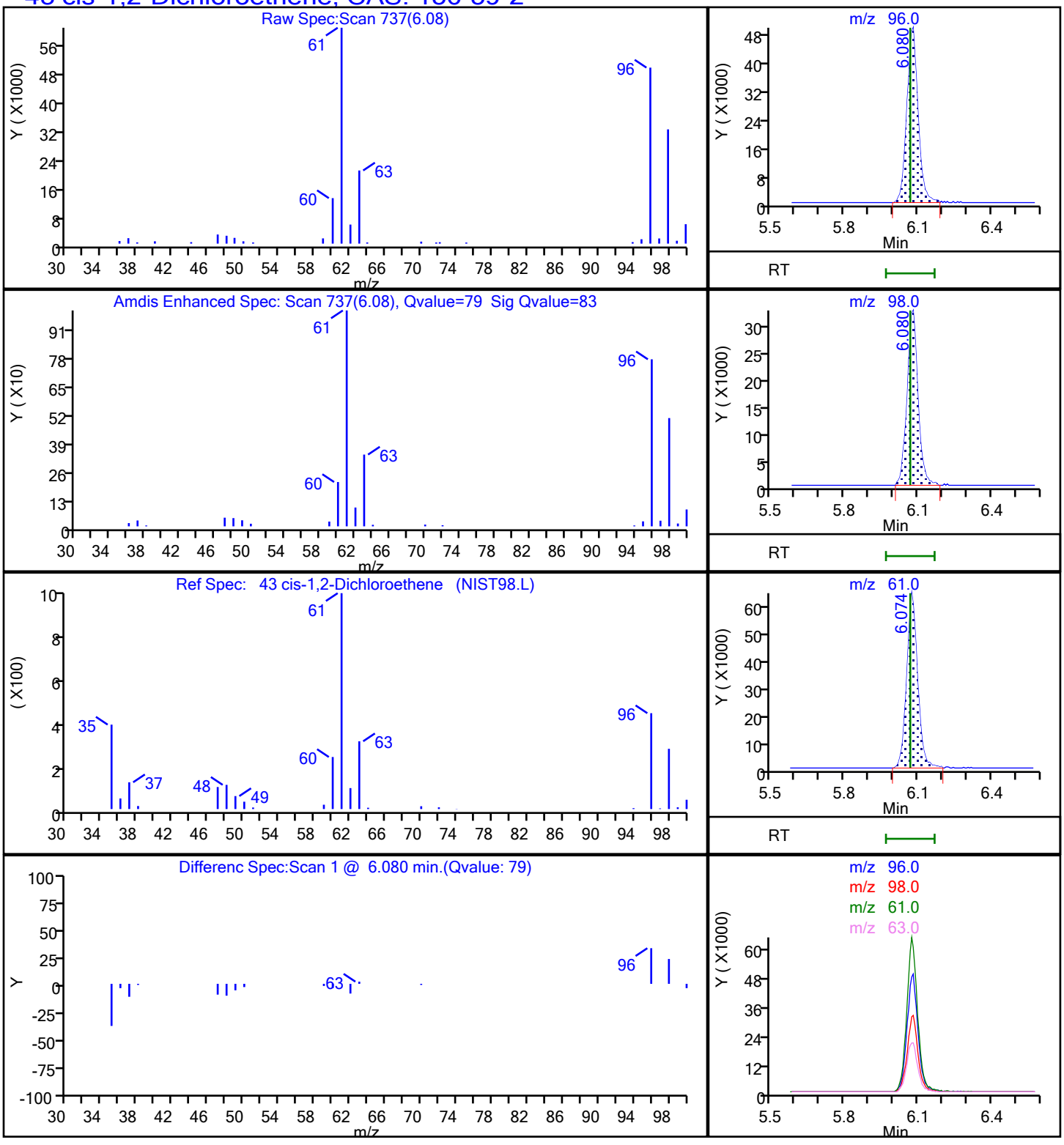
52 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X19.D				
Injection Date:	05-Oct-2022 15:31:30	Instrument ID:	19094		
Lims ID:	410-99372-A-8	Lab Sample ID:	410-99372-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

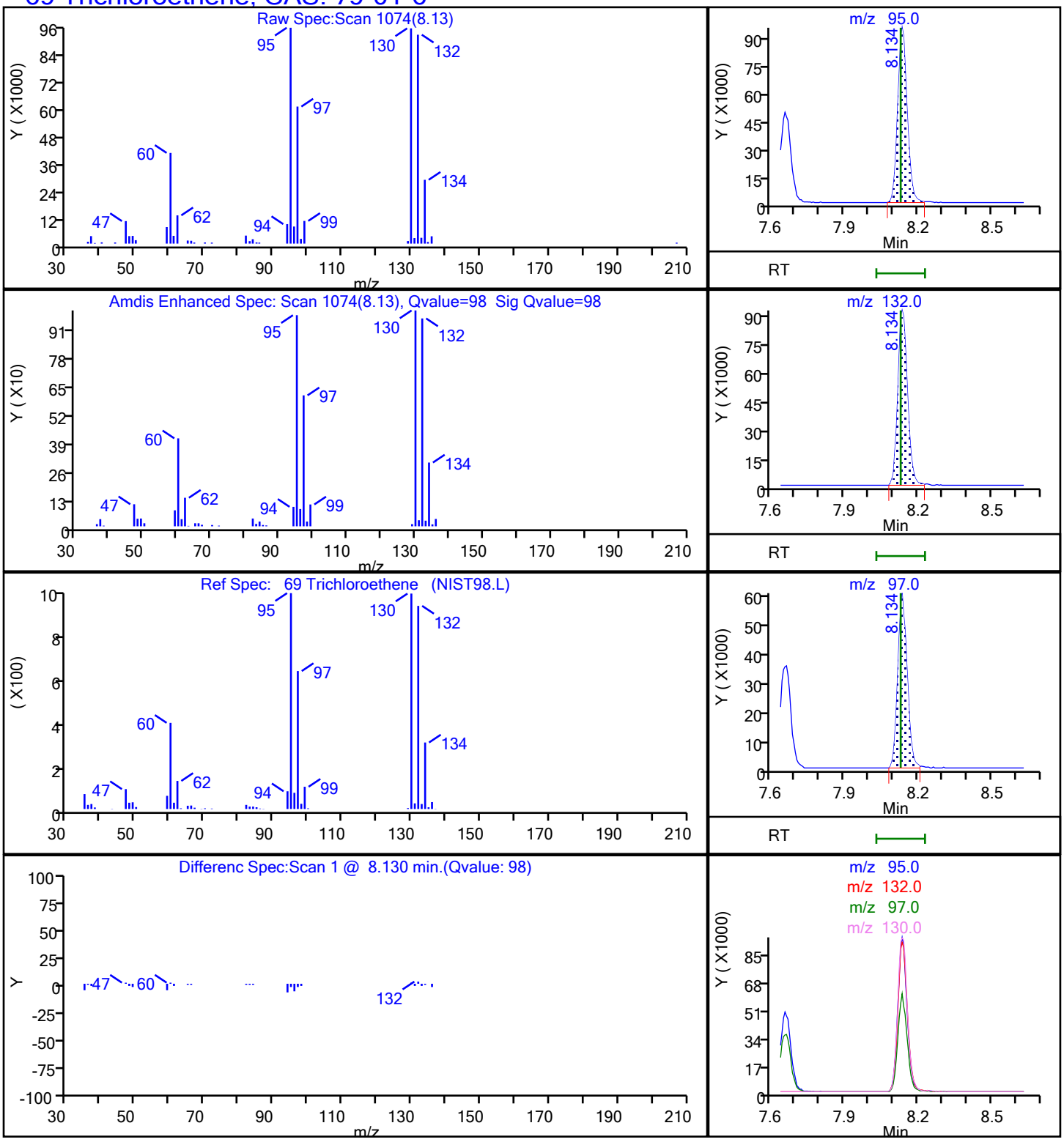


Report Date: 06-Oct-2022 14:11:25 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X19.D				
Injection Date:	05-Oct-2022 15:31:30	Instrument ID:	19094		
Lims ID:	410-99372-A-8	Lab Sample ID:	410-99372-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

69 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

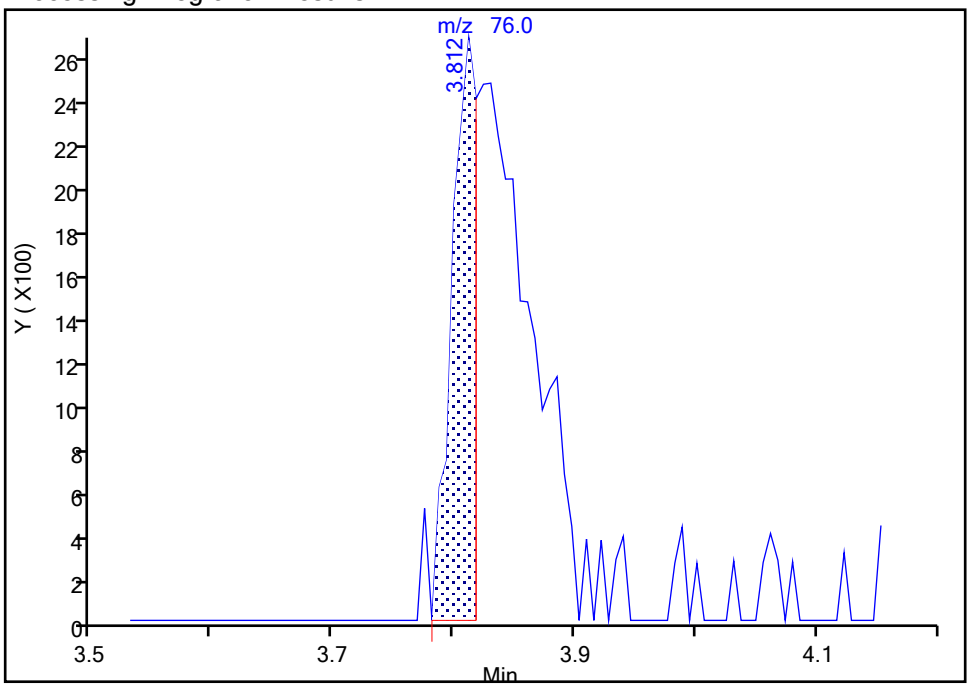
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X19.D				
Injection Date:	05-Oct-2022 15:31:30	Instrument ID:	19094		
Lims ID:	410-99372-A-8	Lab Sample ID:	410-99372-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

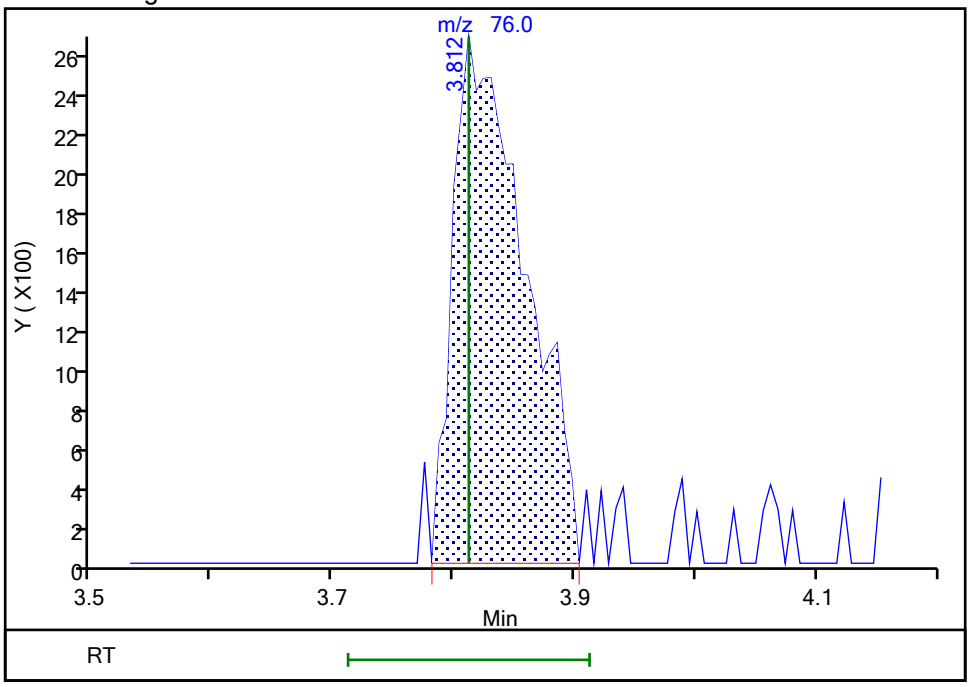
Processing Integration Results

RT: 3.81
Area: 3793
Amount: 0.032349
Amount Units: ug/l



Manual Integration Results

RT: 3.81
Area: 10833
Amount: 0.092390
Amount Units: ug/l



Reviewer: pongsawatp, 06-Oct-2022 14:10:17

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.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0 DL Lab Sample ID: 410-99372-8 DL

Matrix: Water Lab File ID: CC07X14.D

Analysis Method: 8260D Date Collected: 09/23/2022 09:55

Sample wt/vol: 25(mL) Date Analyzed: 10/07/2022 16:01

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.: 304184 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	66	cn	5.0	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108	cn	80-120
460-00-4	4-Bromofluorobenzene (Surr)	94	cn	80-120
1868-53-7	Dibromofluoromethane (Surr)	106	cn	80-120
2037-26-5	Toluene-d8 (Surr)	96	cn	80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20221007-68180.b\CC07X14.D
Lims ID: 410-99372-B-8
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 07-Oct-2022 16:01:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0068180-015
Operator ID: knk41612 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20221007-68180.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 10-Oct-2022 17:31:38 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1675

First Level Reviewer: sangkuas Date: 10-Oct-2022 16:36:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		1.922				ND	7
6 Vinyl chloride	62		2.020				ND	7
9 Bromomethane	94		2.312				ND	7
10 Chloroethane	64		2.379				ND	7
19 1,1-Dichloroethene	96	3.117	3.105	0.012	87	1128	0.0252	
20 Acetone	43		3.135				ND	7
25 Carbon disulfide	76	3.361	3.361	0.000	98	74324	0.5371	M
29 Methylene Chloride	84		3.678				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	3.708	3.708	0.000	99	148115	50.0	
33 Methyl tert-butyl ether	73		4.032				ND	7
34 trans-1,2-Dichloroethene	96		4.038				ND	
36 1,1-Dichloroethane	63	4.678	4.684	-0.006	2	11705	0.1154	
41 2-Butanone (MEK)	43		5.519				ND	
42 cis-1,2-Dichloroethene	96	5.537	5.537	0.000	77	19823	0.3282	
47 Chlorobromomethane	128		5.873				ND	
50 Chloroform	83	6.037	6.037	0.000	17	2877	0.0301	
$ 53 Dibromofluoromethane (Surr)	113	6.257	6.257	0.000	95	504059	10.6	
52 1,1,1-Trichloroethane	97	6.244	6.257	-0.013	50	45055	0.5391	
55 Carbon tetrachloride	117		6.470				ND	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.714	6.714	0.000	41	105352	10.8	
59 Benzene	78		6.738				ND	
61 1,2-Dichloroethane	62		6.818				ND	
* 64 Fluorobenzene (IS)	96	7.153	7.159	-0.006	99	2033932	10.0	
67 Trichloroethene	95	7.647	7.647	0.000	96	26459	0.4409	
69 1,2-Dichloropropane	63		7.988				ND	
75 Dichlorobromomethane	83		8.348				ND	
79 cis-1,3-Dichloropropene	75		8.921				ND	
81 4-Methyl-2-pentanone (MIBK)	43		9.128				ND	
$ 82 Toluene-d8 (Surr)	98	9.250	9.256	-0.006	93	2092650	9.57	
83 Toluene	92		9.335				ND	7
84 trans-1,3-Dichloropropene	75		9.634				ND	7
86 1,1,2-Trichloroethane	97		9.847				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
87 Tetrachloroethene	166	9.927	9.927	0.000	97	500171	6.65	
104 2-Hexanone	43		10.091				ND	
106 Chlorodibromomethane	129		10.244				ND	
107 Ethylene Dibromide	107		10.353				ND	
* 108 Chlorobenzene-d5 (IS)	117	10.811	10.811	0.000	83	1660350	10.0	
110 Chlorobenzene	112		10.841				ND	7
111 1,1,1,2-Tetrachloroethane	131		10.927				ND	
112 Ethylbenzene	91		10.933				ND	7
113 m-Xylene & p-Xylene	106		11.055				ND	7
S 114 Xylenes, Total	106		11.245				ND	7
115 o-Xylene	106		11.396				ND	
116 Styrene	104		11.414				ND	7
117 Bromoform	173		11.573				ND	
$ 121 4-Bromofluorobenzene (Surr)	95	11.853	11.853	0.000	98	764286	9.44	
123 1,1,2,2-Tetrachloroethane	83		11.969				ND	
* 136 1,4-Dichlorobenzene-d4	152	12.755	12.755	0.000	93	973669	10.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
U - Marked Undetected

Reagents:

MSV_HP25_ISSS_00059 Amount Added: 1.00 Units: uL Run Reagent

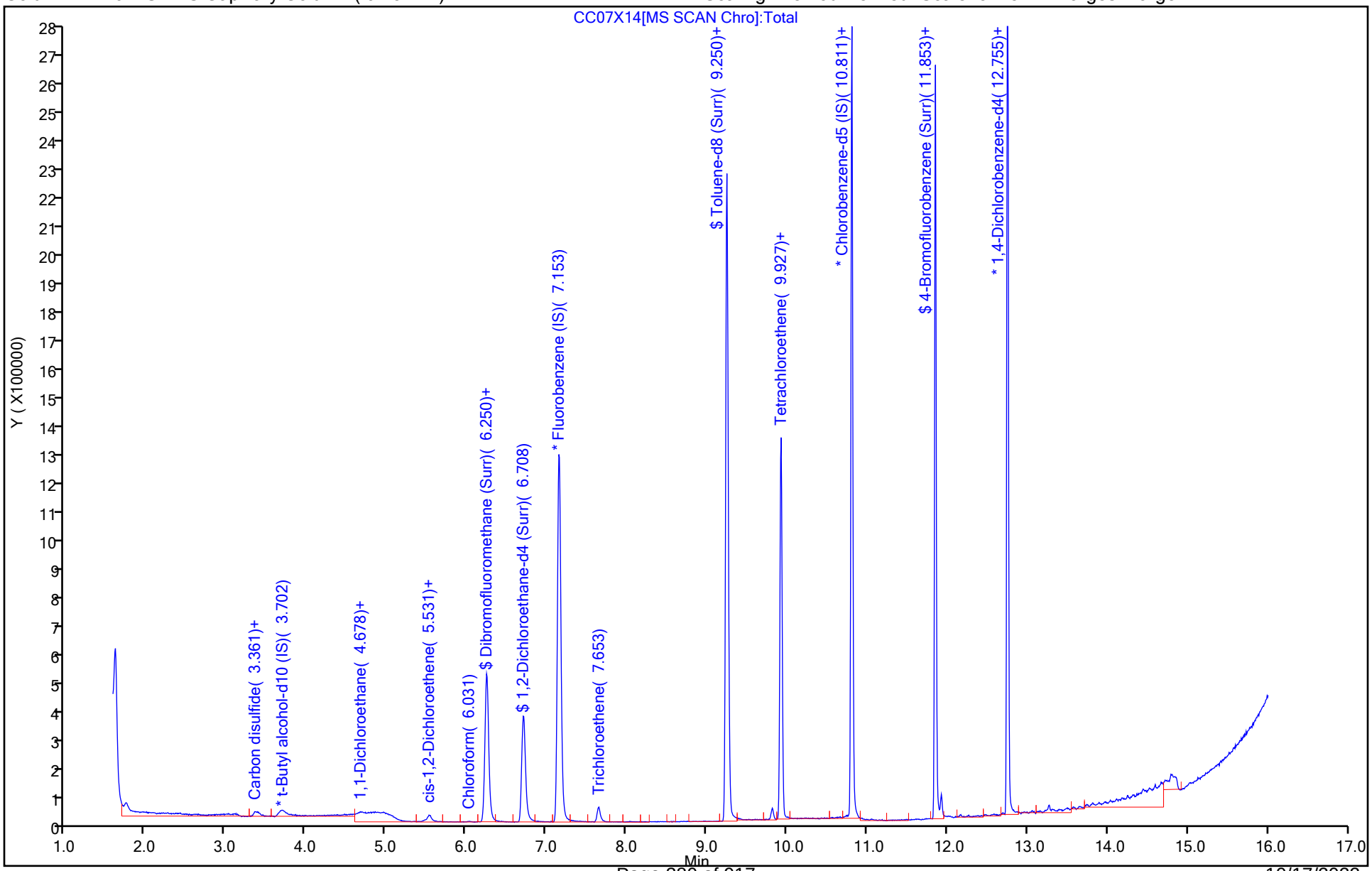
Report Date: 10-Oct-2022 17:38:29 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20221007-68180.b\CC07X14.D

Injection Date:	07-Oct-2022 16:01:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	410-99372-B-8	Lab Sample ID:	410-99372-8	Worklist Smp#:	15
Client ID:	HD-COD-SW-17-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	14
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20221007-68180.b\CC07X14.D				
Lims ID:	410-99372-B-8				
Client ID:	HD-COD-SW-17-0/1-0				
Sample Type:	Client				
Inject. Date:	07-Oct-2022 16:01:30	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	10.0000		
Sample Info:	410-0068180-015				
Operator ID:	knk41612	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20221007-68180.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	10-Oct-2022 17:31:38	Calib Date:	22-Aug-2022 22:26:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1675				

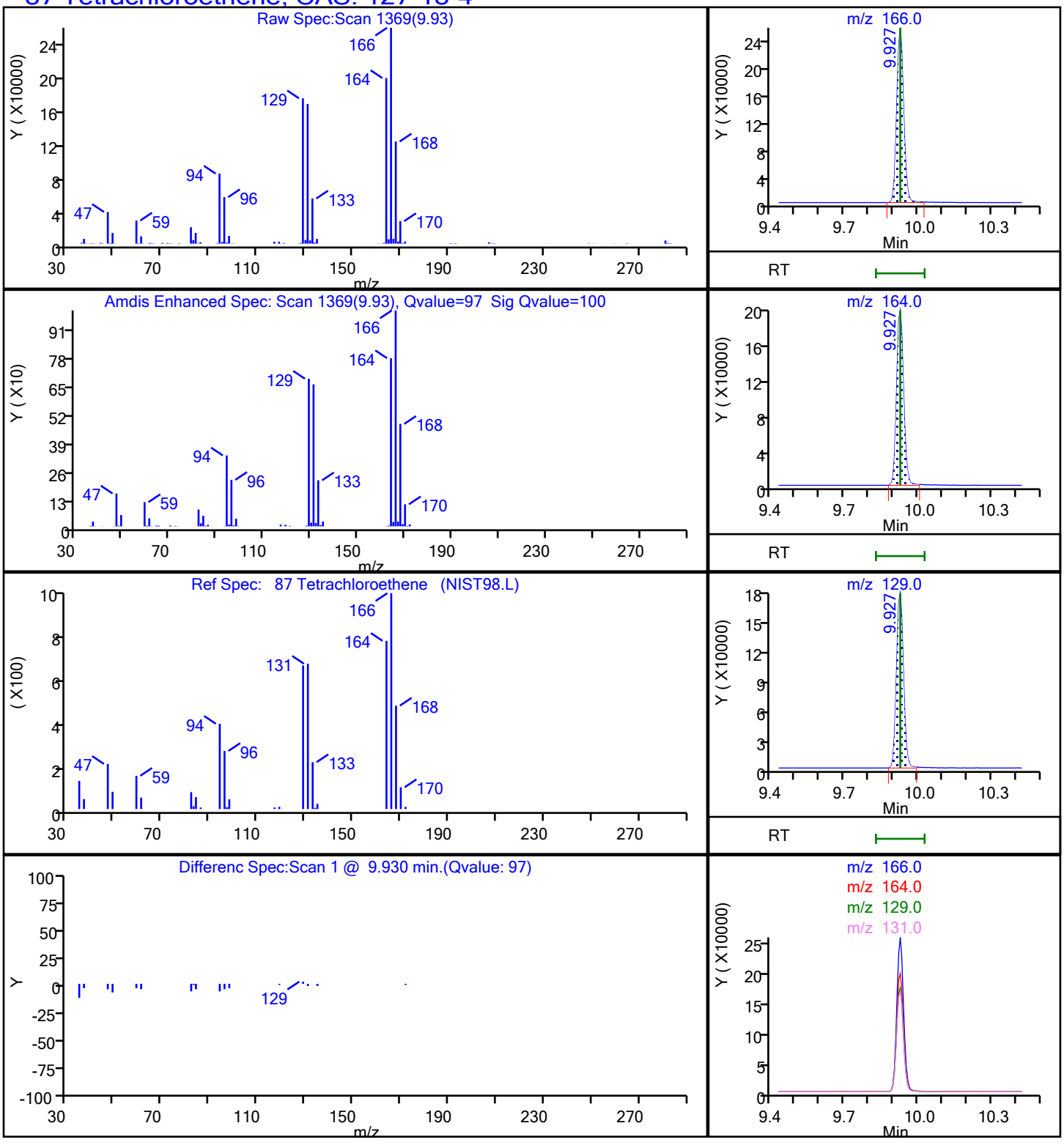
First Level Reviewer: sangkuas Date: 10-Oct-2022 16:36:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	10.6	106.04
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.8	107.80
$ 82 Toluene-d8 (Surr)	10.0	9.57	95.65
$ 121 4-Bromofluorobenzene (Surr)	10.0	9.44	94.40

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20221007-68180.b\CC07X14.D				
Injection Date:	07-Oct-2022 16:01:30	Instrument ID:	10193		
Lims ID:	410-99372-B-8	Lab Sample ID:	410-99372-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	10.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

87 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-26-0/1-0 Lab Sample ID: 410-99372-9

Matrix: Water Lab File ID: HO05X20.D

Analysis Method: 8260D Date Collected: 09/23/2022 10:35

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 15:52

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.: 303234 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	0.13	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	0.10	J cn	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	0.60		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	4.0		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.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-26-0/1-0 Lab Sample ID: 410-99372-9

Matrix: Water Lab File ID: HO05X20.D

Analysis Method: 8260D Date Collected: 09/23/2022 10:35

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 15:52

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.: 303234 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)	108		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X20.D
Lims ID: 410-99372-A-9
Client ID: HD-COD-SW-26-0/1-0
Sample Type: Client
Inject. Date: 05-Oct-2022 15:52:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0067970-021
Operator ID: knk41612 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2022 14:12:01 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:12:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.123				ND	
7 Vinyl chloride	62		2.239				ND	
9 Bromomethane	94		2.575				ND	
10 Chloroethane	64		2.654				ND	
18 1,1-Dichloroethene	96	3.519	3.513	0.006	94	5767	0.1316	
19 Acetone	43		3.532				ND	
24 Carbon disulfide	76	3.824	3.812	0.012	99	11738	0.1001	
* 29 t-Butyl alcohol-d10 (IS)	65	4.178	4.166	0.012	23	107151	50.0	
28 Methylene Chloride	84		4.166				ND	
33 Methyl tert-butyl ether	73		4.568				ND	
34 trans-1,2-Dichloroethene	96		4.592				ND	
37 1,1-Dichloroethane	63		5.245				ND	7
42 2-Butanone (MEK)	43		6.019				ND	
43 cis-1,2-Dichloroethene	96	6.086	6.068	0.018	63	2607	0.0488	
49 Chlorobromomethane	128		6.397				ND	
52 Chloroform	83	6.555	6.549	0.006	93	51454	0.5995	
$ 53 Dibromofluoromethane (Surr)	113	6.769	6.757	0.012	94	424295	9.95	
54 1,1,1-Trichloroethane	97		6.781				ND	7
57 Carbon tetrachloride	117		6.988				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.214	7.214	0.000	52	84158	10.8	
60 Benzene	78		7.244				ND	7
62 1,2-Dichloroethane	62		7.311				ND	7
* 65 Fluorobenzene (IS)	96	7.653	7.653	0.000	99	1684789	10.0	
69 Trichloroethene	95	8.134	8.128	0.006	92	8214	0.1481	M
71 1,2-Dichloropropane	63		8.458				ND	
77 Dichlorobromomethane	83		8.799				ND	7
81 cis-1,3-Dichloropropene	75		9.348				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.512				ND	
$ 84 Toluene-d8 (Surr)	98	9.658	9.658	0.000	93	1755862	10.4	
85 Toluene	92		9.732				ND	7
86 trans-1,3-Dichloropropene	75		9.988				ND	
106 1,1,2-Trichloroethane	97		10.195				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.292	10.286	0.006	98	232553	4.01	
109 2-Hexanone	43		10.402				ND	
111 Chlorodibromomethane	129		10.573				ND	
112 Ethylene Dibromide	107		10.683				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.115	11.109	0.006	86	1383330	10.0	
115 Chlorobenzene	112		11.140				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.219				ND	
118 Ethylbenzene	91		11.225				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.341				ND	7
120 o-Xylene	106		11.664				ND	
121 Styrene	104		11.682				ND	
122 Bromoform	173		11.841				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	92	670019	9.75	
127 1,1,2,2-Tetrachloroethane	83		12.207				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	95	759207	10.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
U - Marked Undetected

Reagents:

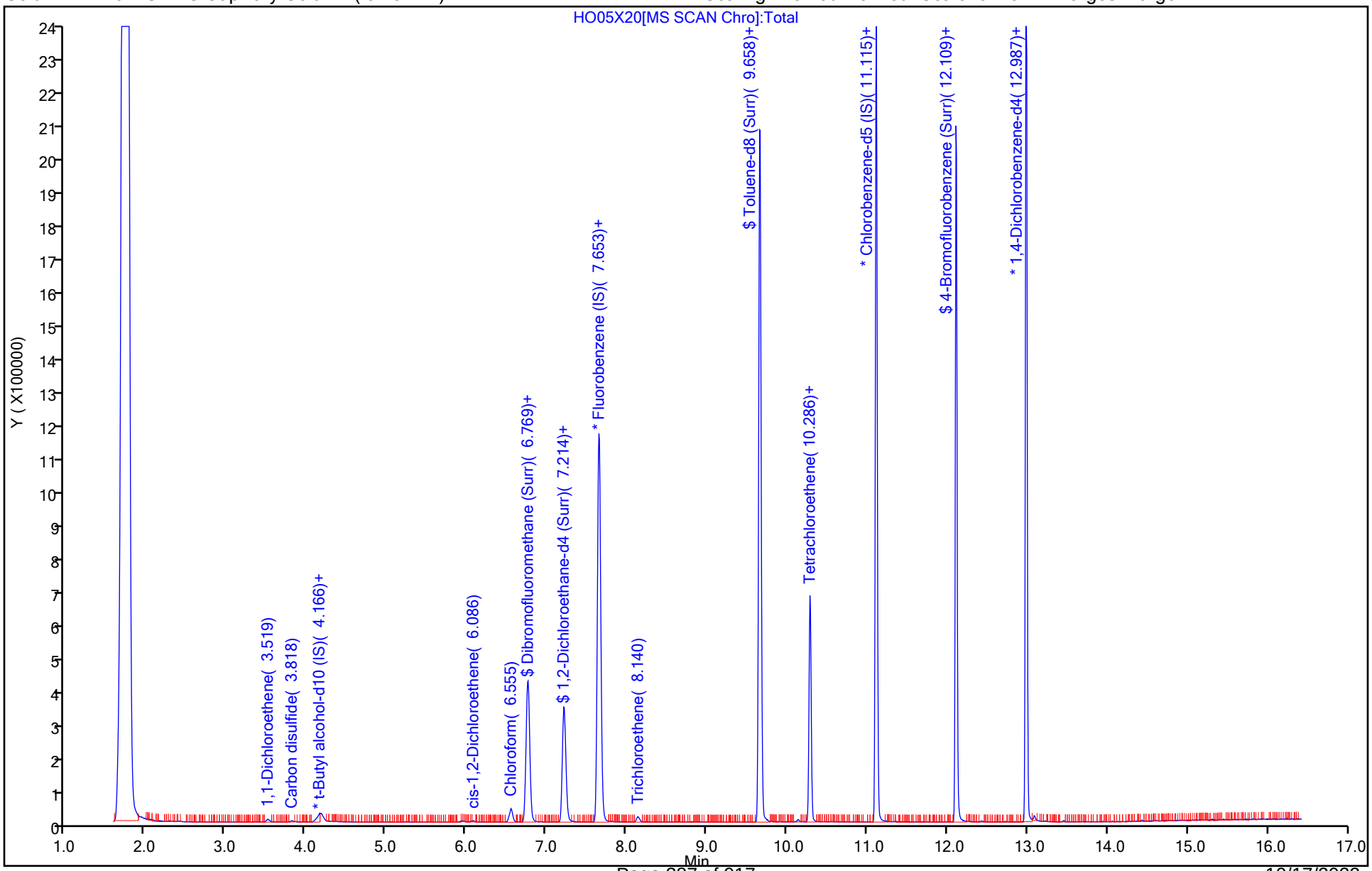
MSV_HP25_ISSS_00057 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 06-Oct-2022 14:12:02 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X20.D				
Injection Date:	05-Oct-2022 15:52:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	410-99372-A-9	Lab Sample ID:	410-99372-9	Worklist Smp#:	21
Client ID:	HD-COD-SW-26-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X20.D				
Lims ID:	410-99372-A-9				
Client ID:	HD-COD-SW-26-0/1-0				
Sample Type:	Client				
Inject. Date:	05-Oct-2022 15:52:30	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0067970-021				
Operator ID:	knk41612	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Oct-2022 14:12:01	Calib Date:	11-Jul-2022 18:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1671				

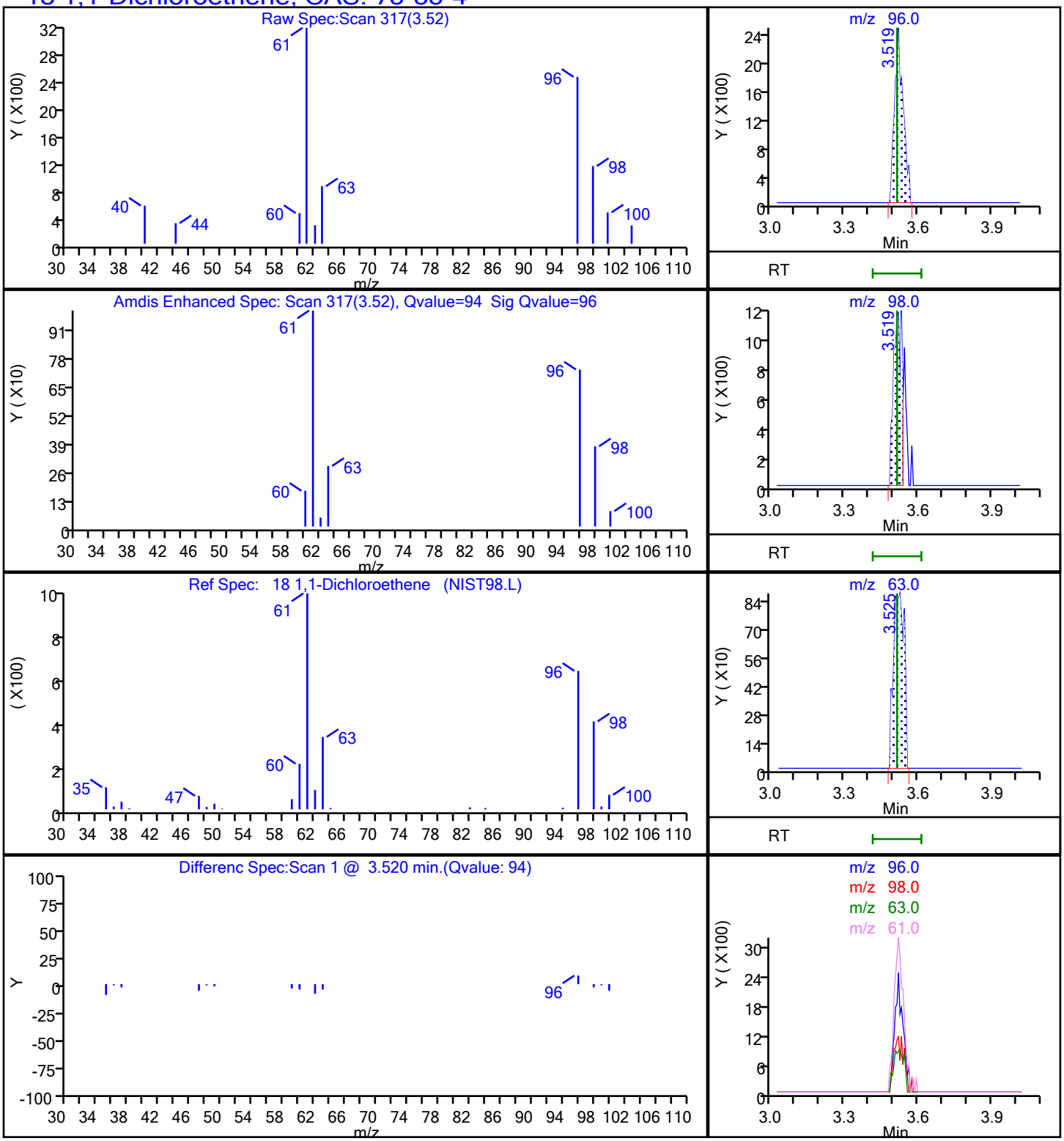
First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:12:01

Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	9.95	99.50
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.8	108.15
$ 84 Toluene-d8 (Surr)	10.0	10.4	103.75
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.75	97.53

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X20.D				
Injection Date:	05-Oct-2022 15:52:30	Instrument ID:	19094		
Lims ID:	410-99372-A-9	Lab Sample ID:	410-99372-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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

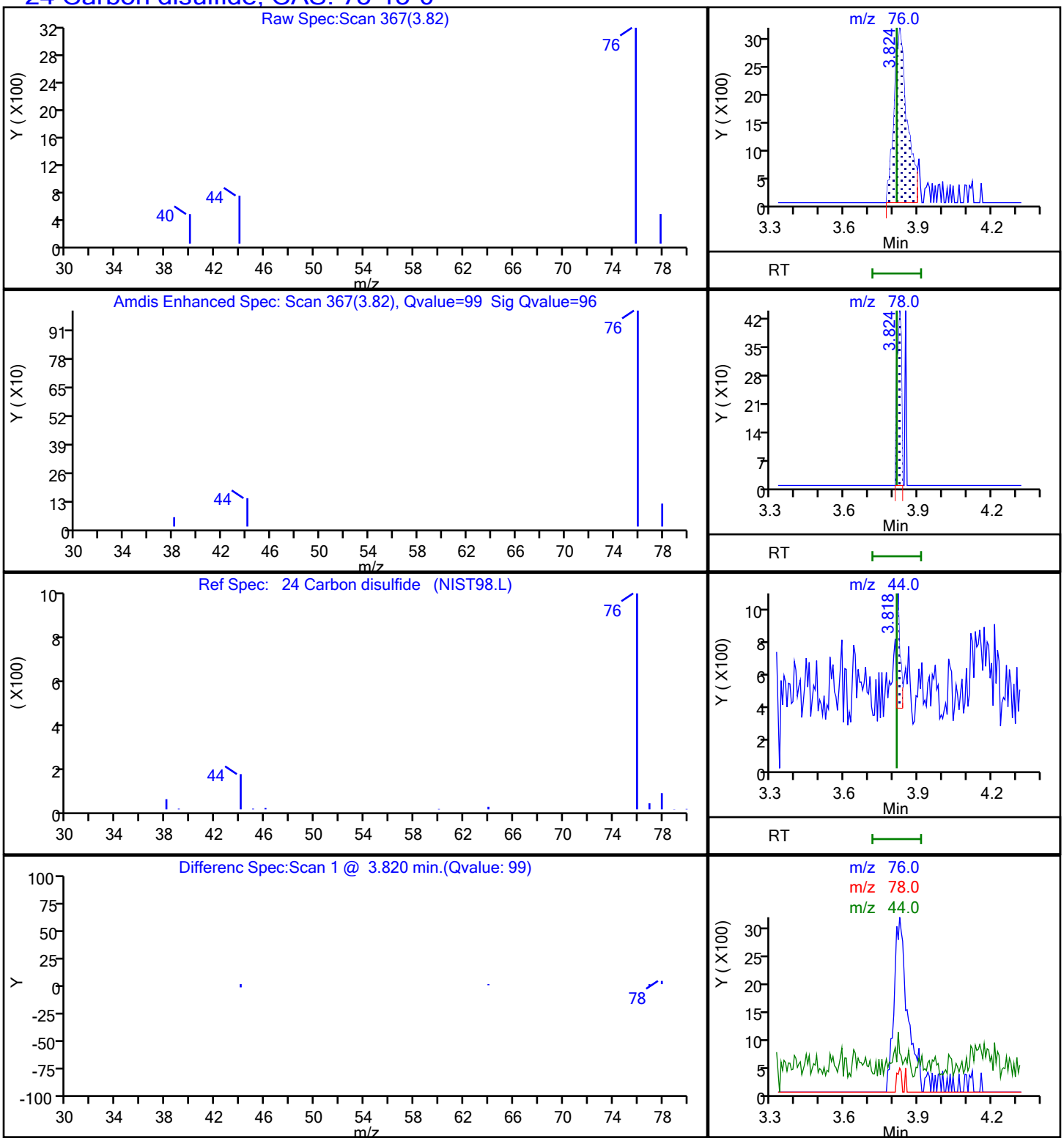


Report Date: 06-Oct-2022 14:12:02 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X20.D				
Injection Date:	05-Oct-2022 15:52:30	Instrument ID:	19094		
Lims ID:	410-99372-A-9	Lab Sample ID:	410-99372-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

24 Carbon disulfide, CAS: 75-15-0

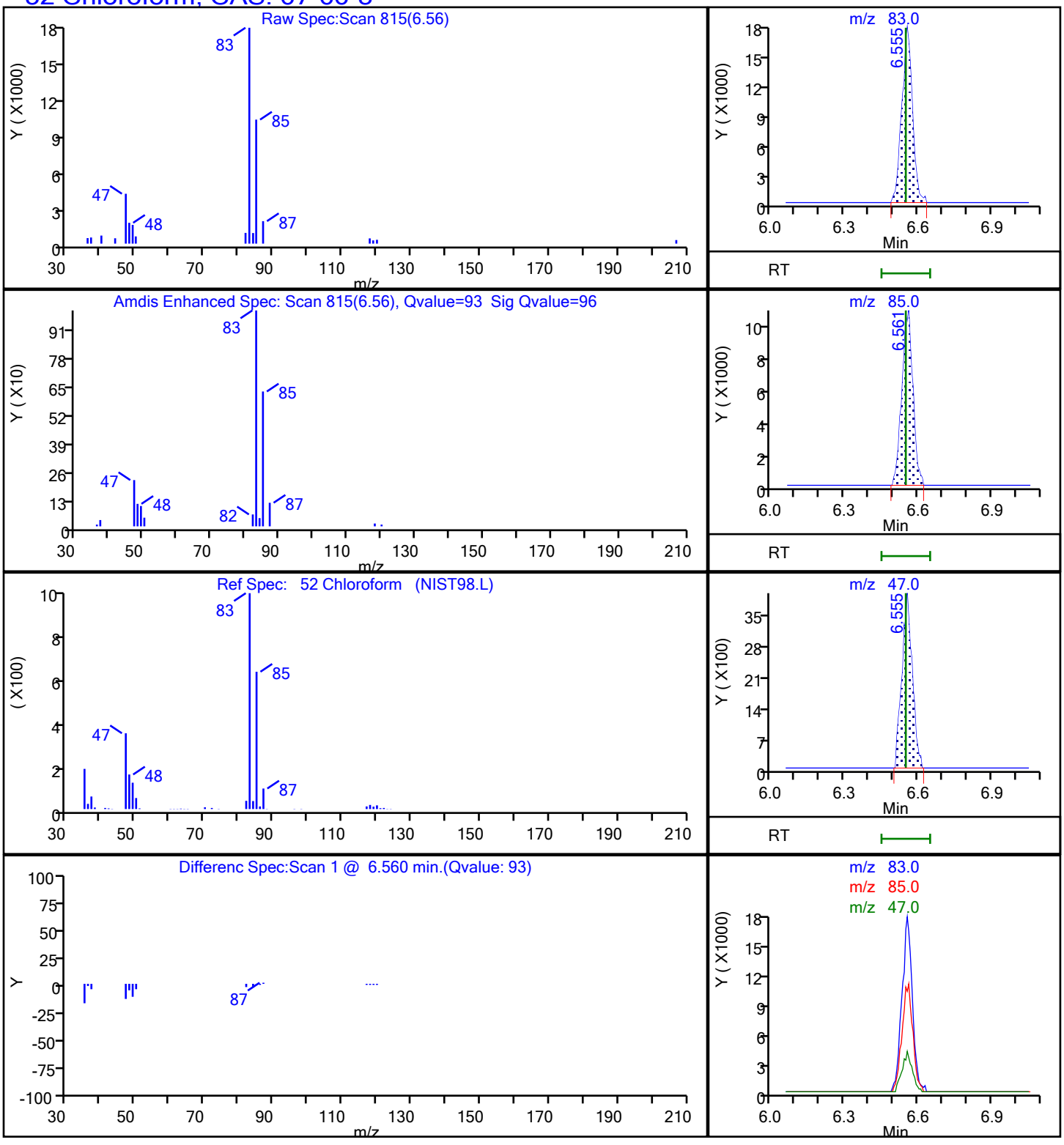


Report Date: 06-Oct-2022 14:12:02 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X20.D				
Injection Date:	05-Oct-2022 15:52:30	Instrument ID:	19094		
Lims ID:	410-99372-A-9	Lab Sample ID:	410-99372-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

52 Chloroform, CAS: 67-66-3

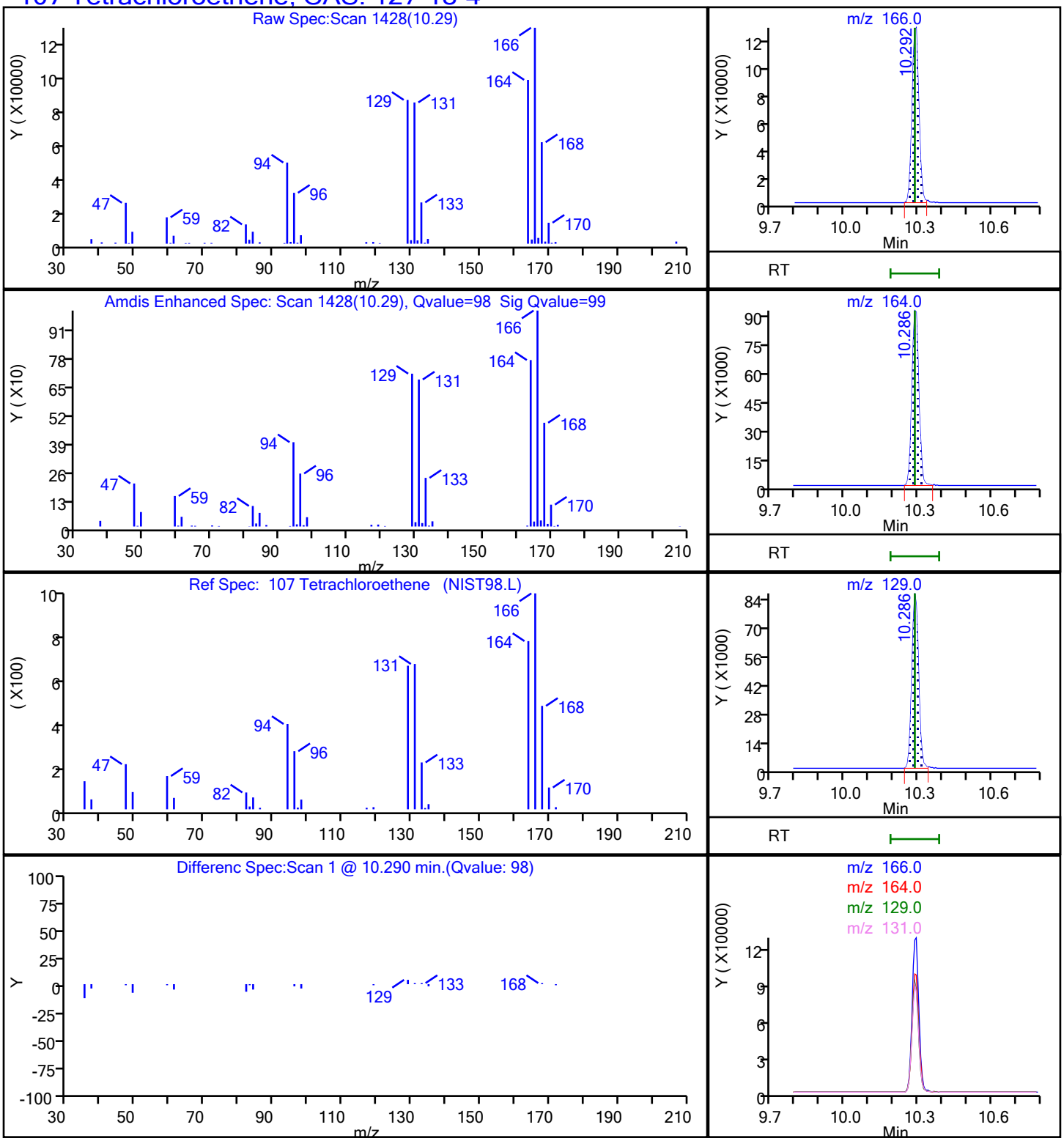


Report Date: 06-Oct-2022 14:12:02 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X20.D				
Injection Date:	05-Oct-2022 15:52:30	Instrument ID:	19094		
Lims ID:	410-99372-A-9	Lab Sample ID:	410-99372-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

107 Tetrachloroethene, CAS: 127-18-4

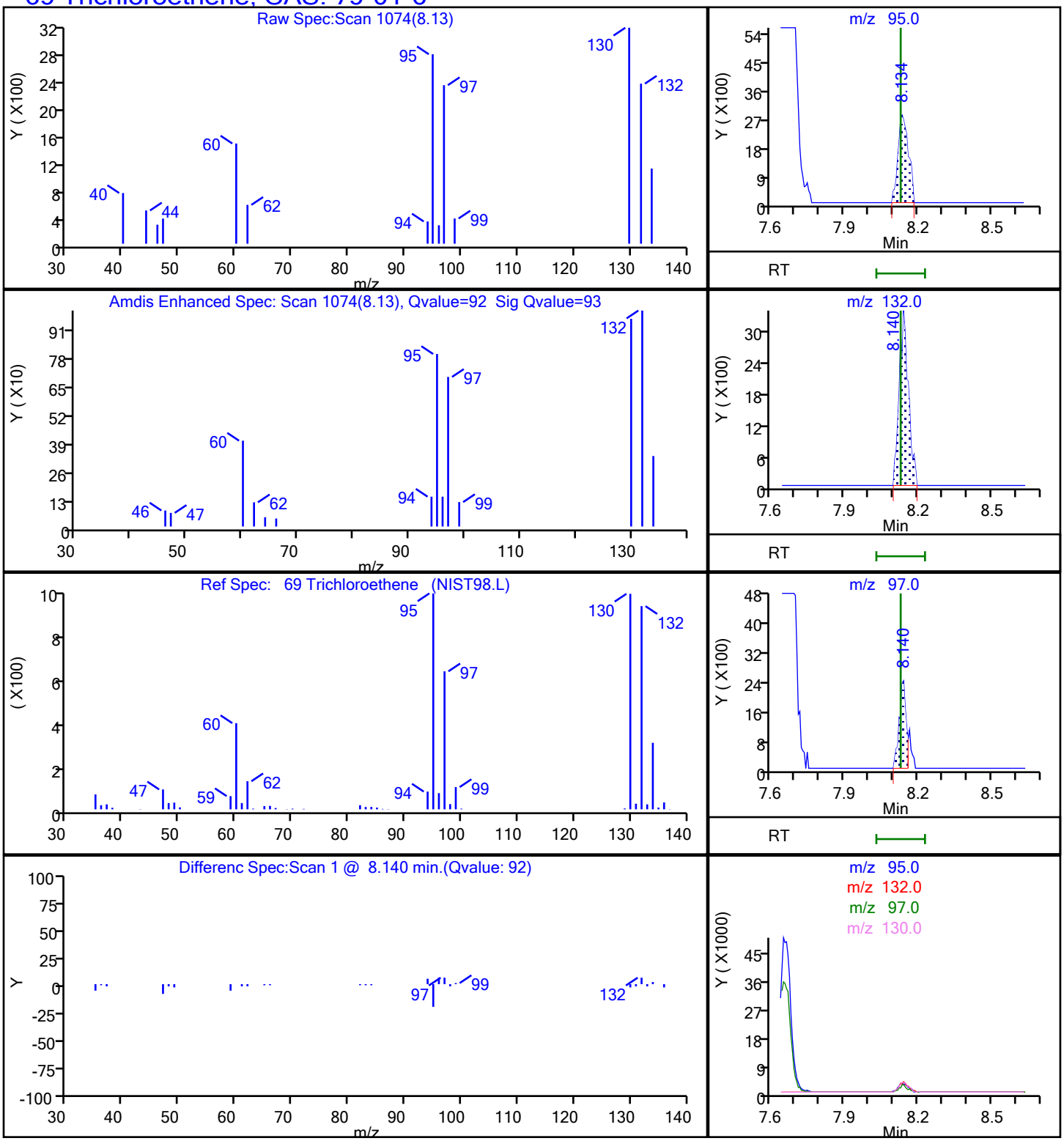


Report Date: 06-Oct-2022 14:12:02 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X20.D				
Injection Date:	05-Oct-2022 15:52:30	Instrument ID:	19094		
Lims ID:	410-99372-A-9	Lab Sample ID:	410-99372-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

69 Trichloroethene, CAS: 79-01-6



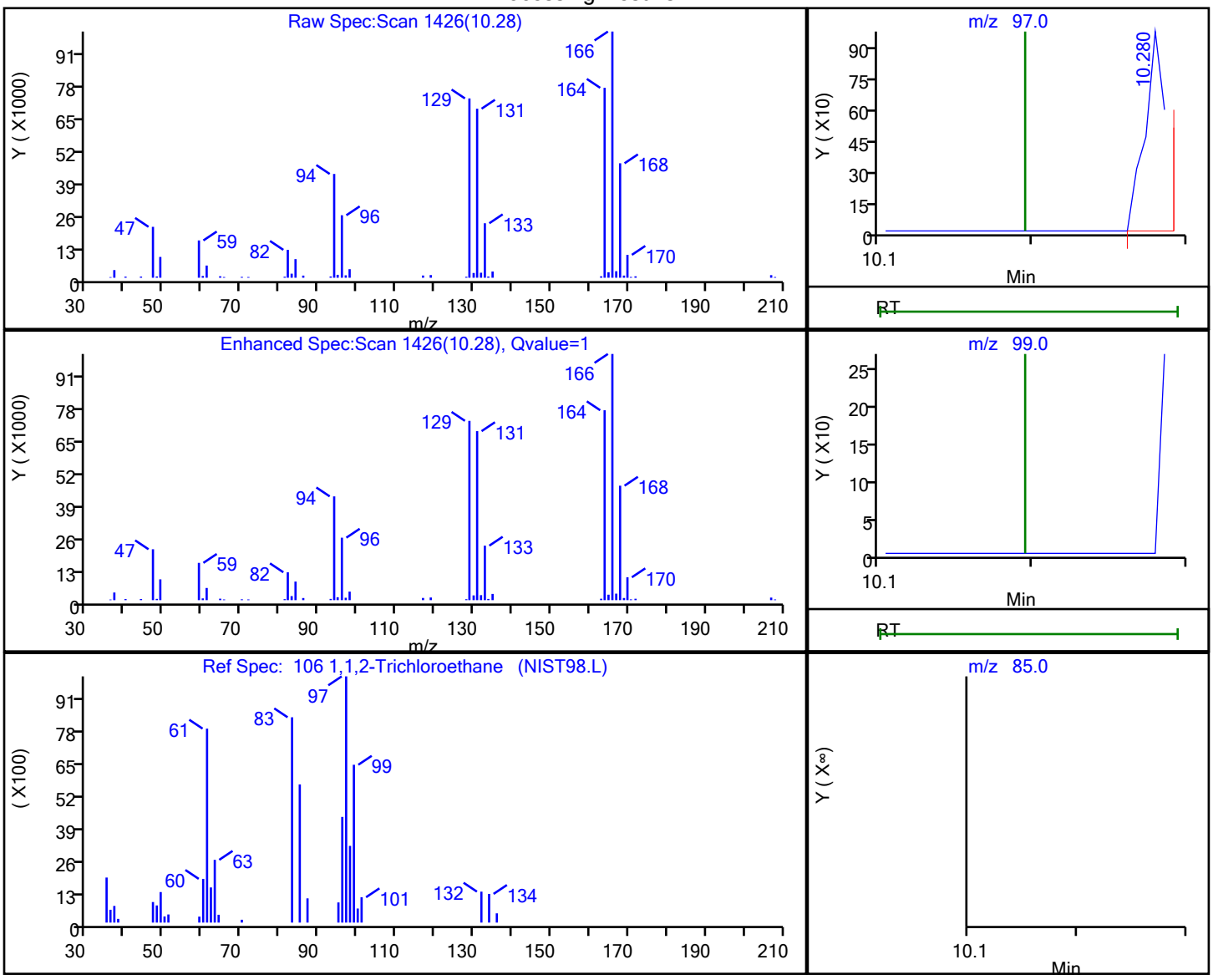
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X20.D				
Injection Date:	05-Oct-2022 15:52:30	Instrument ID:	19094		
Lims ID:	410-99372-A-9	Lab Sample ID:	410-99372-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

106 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
10.28	97.00	1034	0.034718
10.19	99.00	0	
10.19	85.00	0	
10.29	83.00	3440	

Reviewer: pongsawatp, 06-Oct-2022 14:11:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

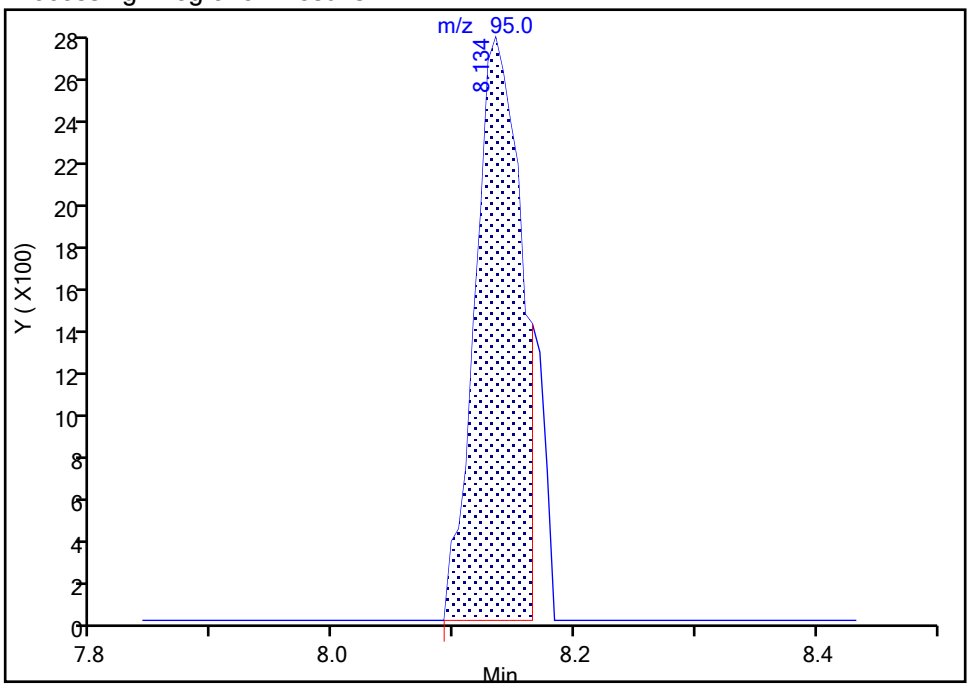
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X20.D				
Injection Date:	05-Oct-2022 15:52:30	Instrument ID:	19094		
Lims ID:	410-99372-A-9	Lab Sample ID:	410-99372-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

69 Trichloroethene, CAS: 79-01-6

Signal: 1

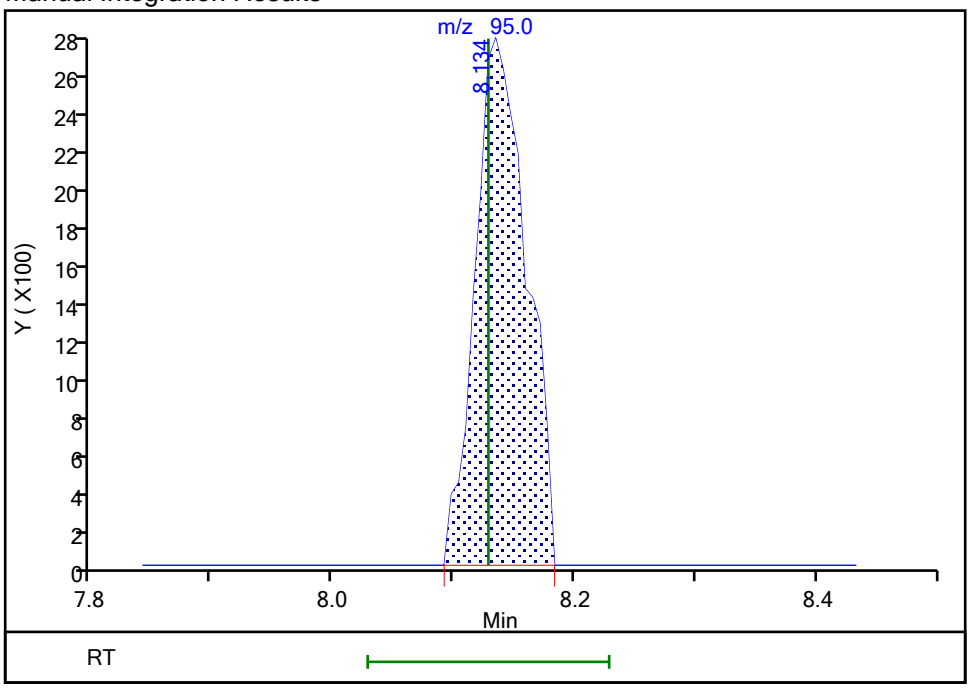
Processing Integration Results

RT: 8.13
Area: 7483
Amount: 0.134929
Amount Units: ug/l



Manual Integration Results

RT: 8.13
Area: 8214
Amount: 0.148110
Amount Units: ug/l



Reviewer: pongsawatp, 06-Oct-2022 14:11:48

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.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-27-0/1-0 Lab Sample ID: 410-99372-10

Matrix: Water Lab File ID: HO05X21.D

Analysis Method: 8260D Date Collected: 09/23/2022 11:15

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 16:12

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 303234 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	0.16	J cn	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-27-0/1-0 Lab Sample ID: 410-99372-10

Matrix: Water Lab File ID: HO05X21.D

Analysis Method: 8260D Date Collected: 09/23/2022 11:15

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 16:12

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 303234 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	0.084	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		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\19094\20221005-67970.b\HO05X21.D
Lims ID: 410-99372-A-10
Client ID: HD-COD-SW-27-0/1-0
Sample Type: Client
Inject. Date: 05-Oct-2022 16:12:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0067970-022
Operator ID: knk41612 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2022 14:12:41 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:12:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.123	2.123	0.000	97	3913	0.0623	
7 Vinyl chloride	62		2.239				ND	
9 Bromomethane	94		2.575				ND	
10 Chloroethane	64		2.654				ND	
18 1,1-Dichloroethene	96		3.513				ND	
19 Acetone	43	3.574	3.532	0.042	71	11137	1.73	
24 Carbon disulfide	76	3.824	3.812	0.012	99	18703	0.1642	
* 29 t-Butyl alcohol-d10 (IS)	65	4.172	4.166	0.006	19	100614	50.0	
28 Methylene Chloride	84		4.166				ND	
33 Methyl tert-butyl ether	73		4.568				ND	
34 trans-1,2-Dichloroethene	96		4.592				ND	
37 1,1-Dichloroethane	63		5.245				ND	
42 2-Butanone (MEK)	43		6.019				ND	
43 cis-1,2-Dichloroethene	96	6.080	6.068	0.012	78	3438	0.0662	
49 Chlorobromomethane	128		6.397				ND	
52 Chloroform	83	6.561	6.549	0.012	89	4506	0.0541	
$ 53 Dibromofluoromethane (Surr)	113	6.763	6.757	0.006	93	406390	9.81	
54 1,1,1-Trichloroethane	97		6.781				ND	
57 Carbon tetrachloride	117		6.988				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.220	7.214	0.006	52	80478	10.6	
60 Benzene	78		7.244				ND	7
62 1,2-Dichloroethane	62		7.311				ND	7
* 65 Fluorobenzene (IS)	96	7.653	7.653	0.000	99	1636327	10.0	
69 Trichloroethene	95	8.134	8.128	0.006	94	4519	0.0839	M
71 1,2-Dichloropropane	63		8.458				ND	
77 Dichlorobromomethane	83		8.799				ND	
81 cis-1,3-Dichloropropene	75		9.348				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.512				ND	7
$ 84 Toluene-d8 (Surr)	98	9.665	9.658	0.007	93	1696845	10.3	
85 Toluene	92		9.732				ND	7
86 trans-1,3-Dichloropropene	75		9.988				ND	
106 1,1,2-Trichloroethane	97		10.195				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.292	10.286	0.006	96	7137	0.1259	
109 2-Hexanone	43		10.402				ND	
111 Chlorodibromomethane	129		10.573				ND	
112 Ethylene Dibromide	107		10.683				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.115	11.109	0.006	86	1351309	10.0	
115 Chlorobenzene	112		11.140				ND	
116 1,1,1,2-Tetrachloroethane	131		11.219				ND	
118 Ethylbenzene	91		11.225				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.341				ND	7
120 o-Xylene	106		11.664				ND	
121 Styrene	104		11.682				ND	
122 Bromoform	173		11.841				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	91	650219	9.69	
127 1,1,2,2-Tetrachloroethane	83		12.207				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	95	736195	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

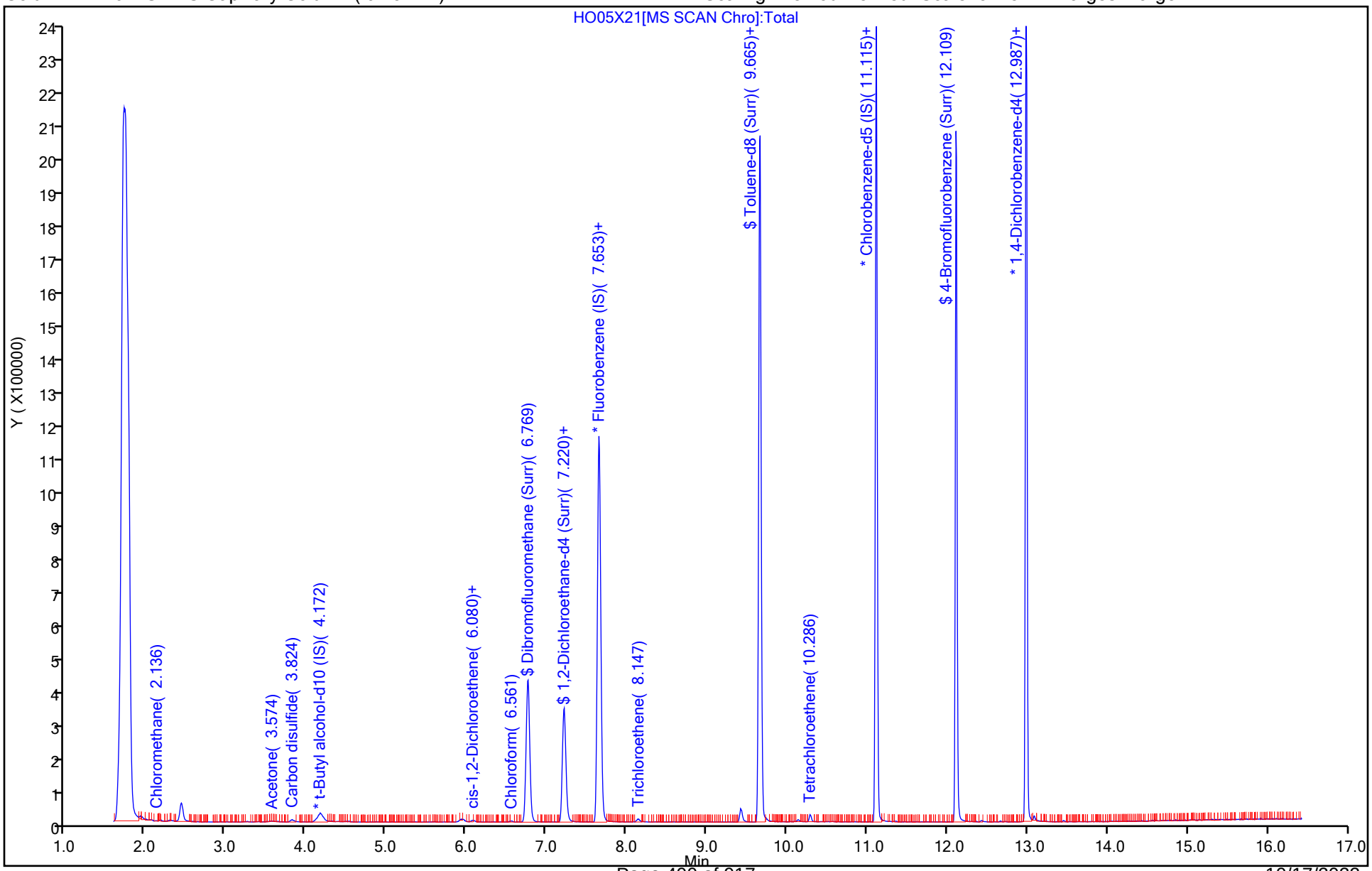
MSV_HP25_ISSS_00057 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 06-Oct-2022 14:12:42 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X21.D				
Injection Date:	05-Oct-2022 16:12:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	410-99372-A-10	Lab Sample ID:	410-99372-10	Worklist Smp#:	22
Client ID:	HD-COD-SW-27-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X21.D				
Lims ID:	410-99372-A-10				
Client ID:	HD-COD-SW-27-0/1-0				
Sample Type:	Client				
Inject. Date:	05-Oct-2022 16:12:30	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0067970-022				
Operator ID:	knk41612	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Oct-2022 14:12:41	Calib Date:	11-Jul-2022 18:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1671				

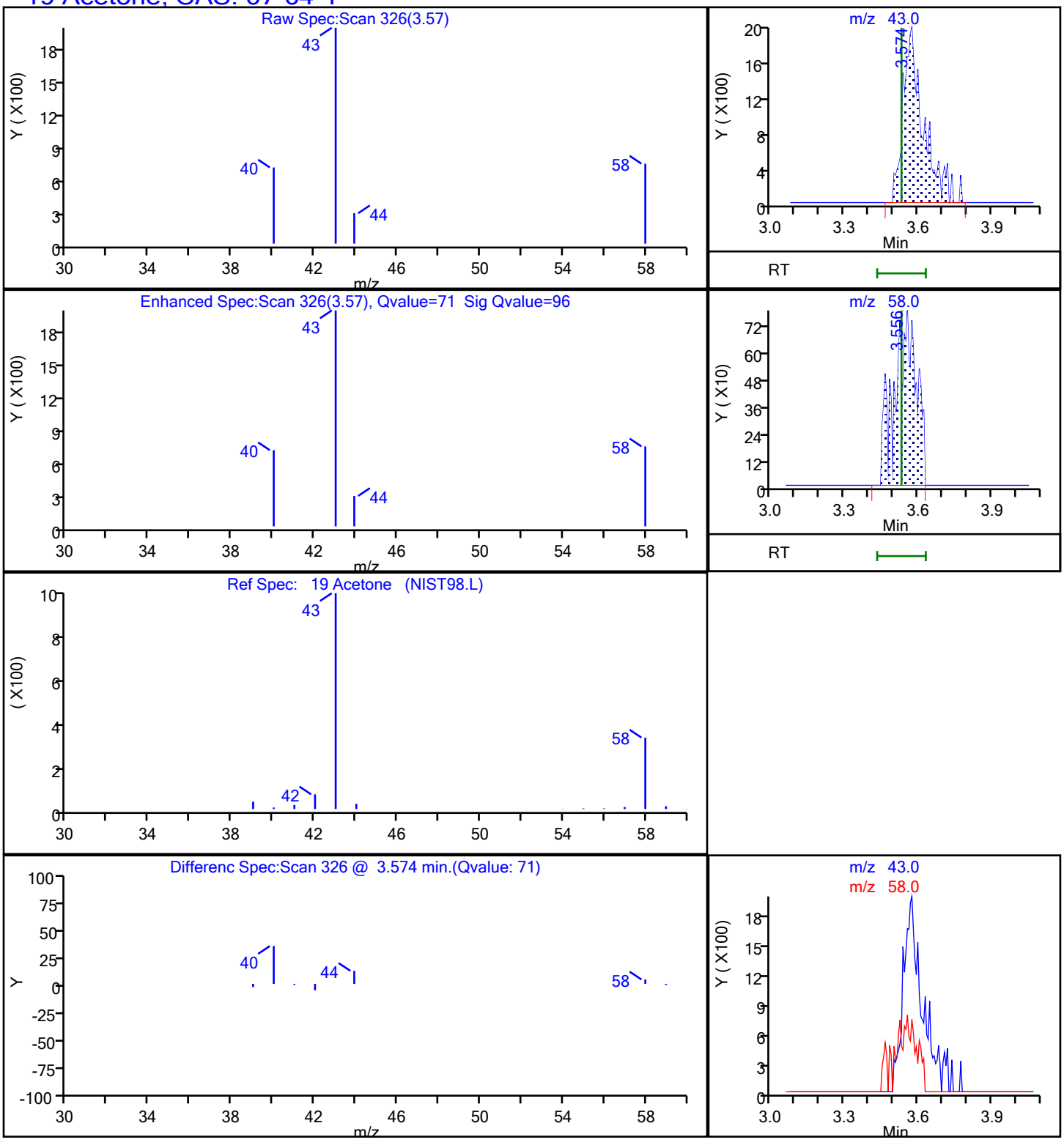
First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:12:41

Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	9.81	98.12
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	106.49
$ 84 Toluene-d8 (Surr)	10.0	10.3	102.64
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.69	96.89

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X21.D				
Injection Date:	05-Oct-2022 16:12:30	Instrument ID:	19094		
Lims ID:	410-99372-A-10	Lab Sample ID:	410-99372-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

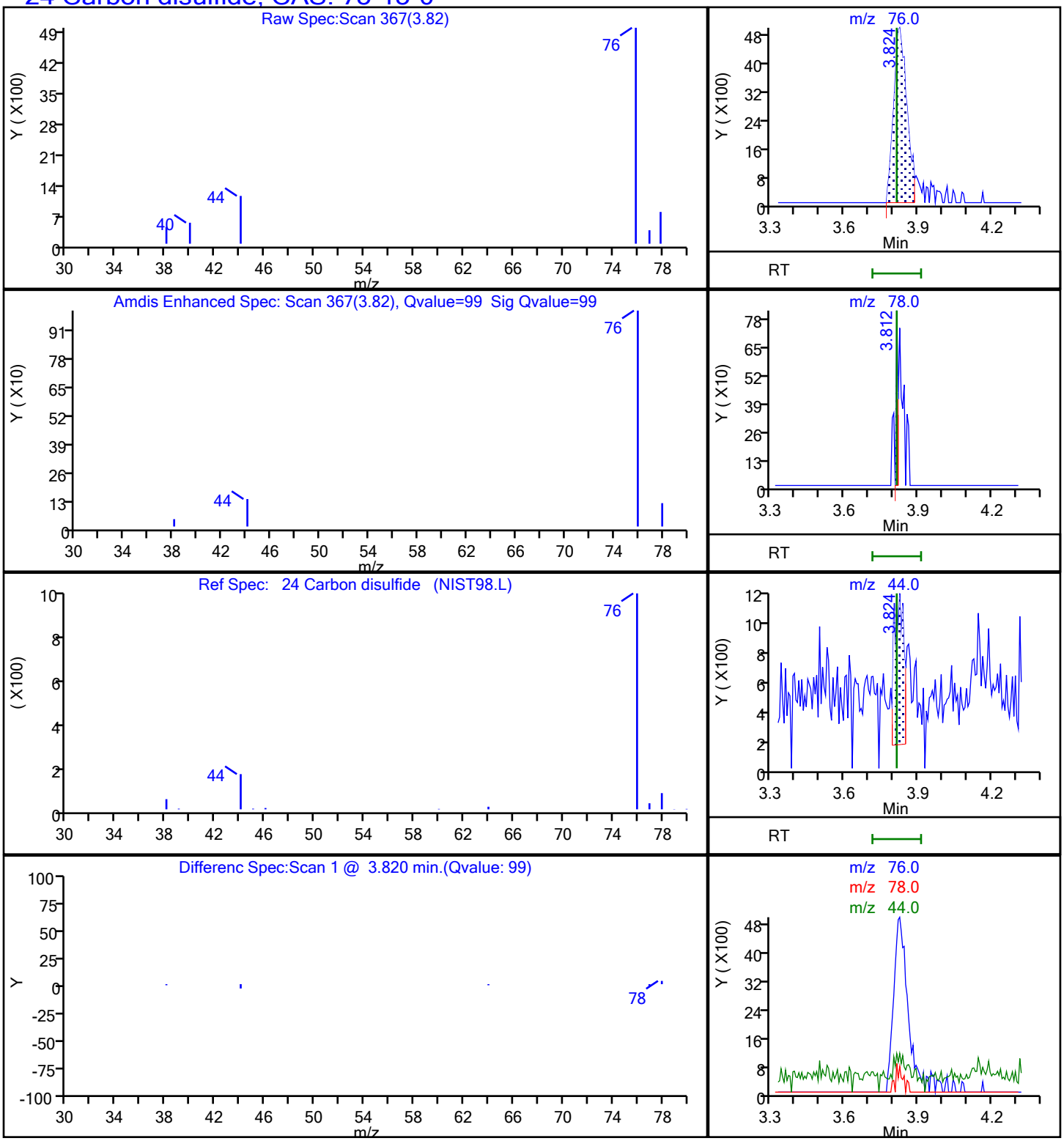
19 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X21.D				
Injection Date:	05-Oct-2022 16:12:30	Instrument ID:	19094		
Lims ID:	410-99372-A-10	Lab Sample ID:	410-99372-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

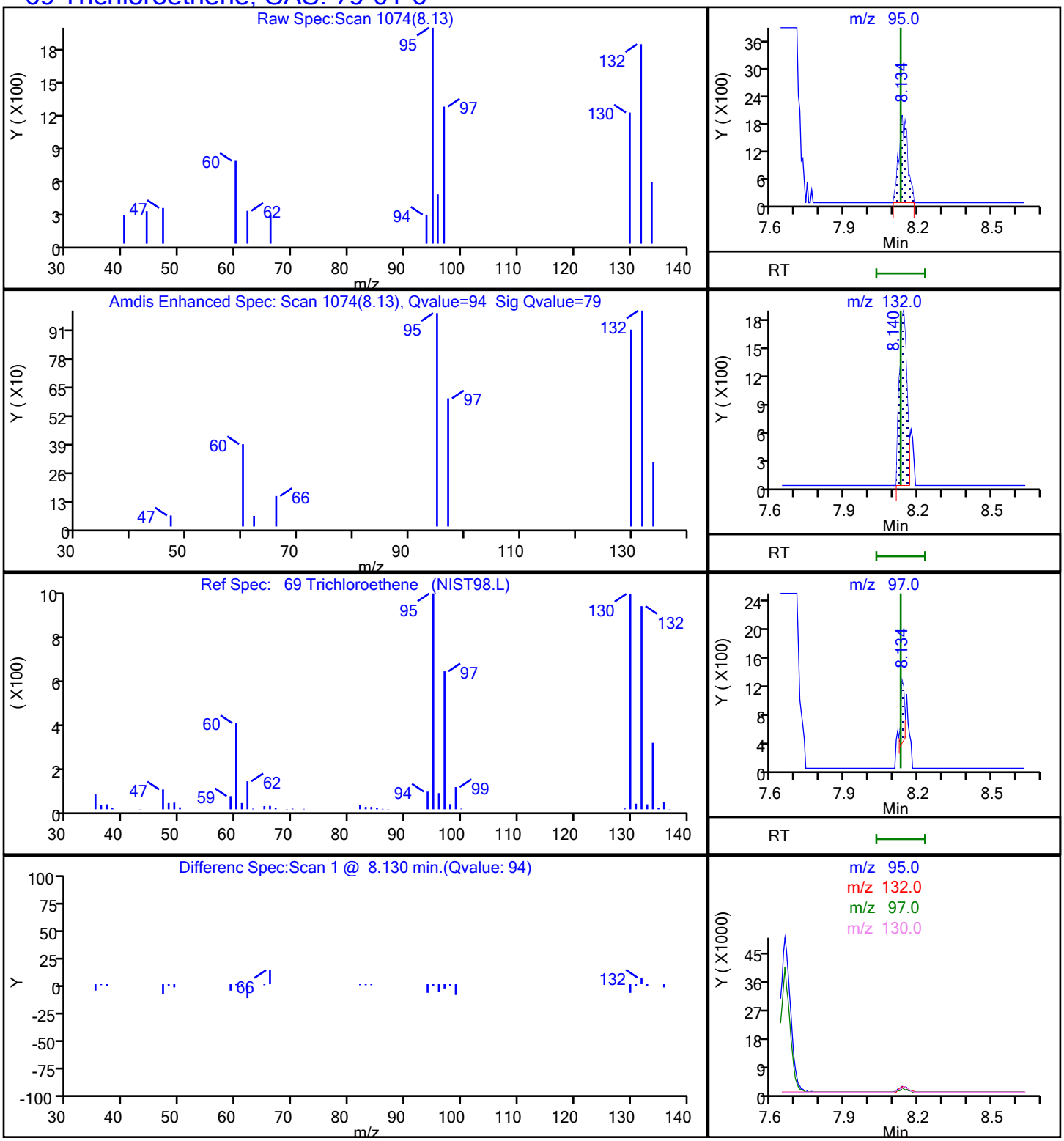
24 Carbon disulfide, CAS: 75-15-0



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X21.D				
Injection Date:	05-Oct-2022 16:12:30	Instrument ID:	19094		
Lims ID:	410-99372-A-10	Lab Sample ID:	410-99372-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

69 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

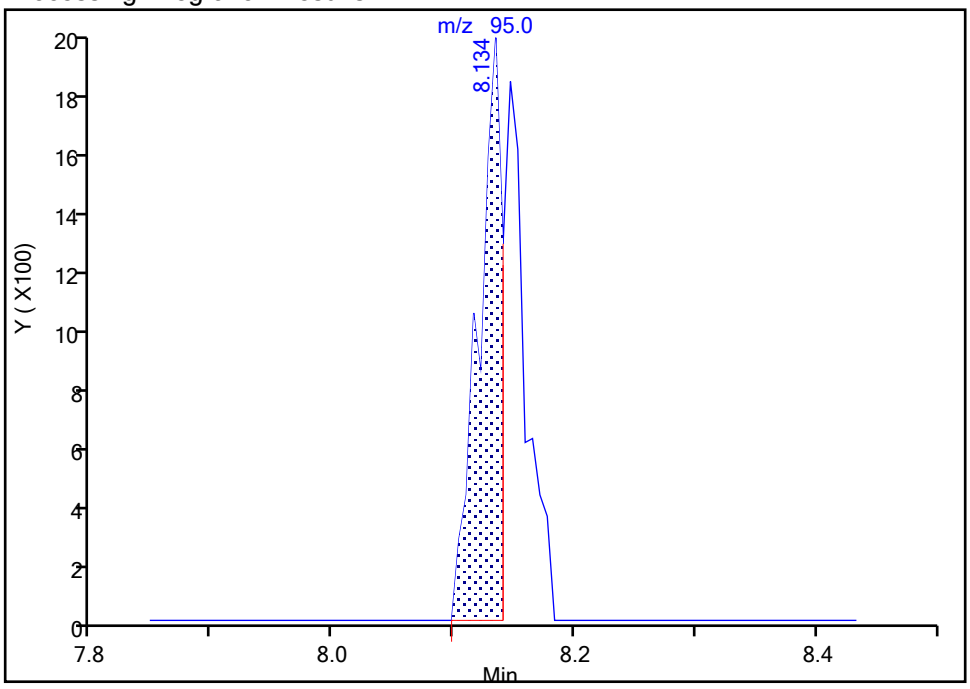
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X21.D				
Injection Date:	05-Oct-2022 16:12:30	Instrument ID:	19094		
Lims ID:	410-99372-A-10	Lab Sample ID:	410-99372-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

69 Trichloroethene, CAS: 79-01-6

Signal: 1

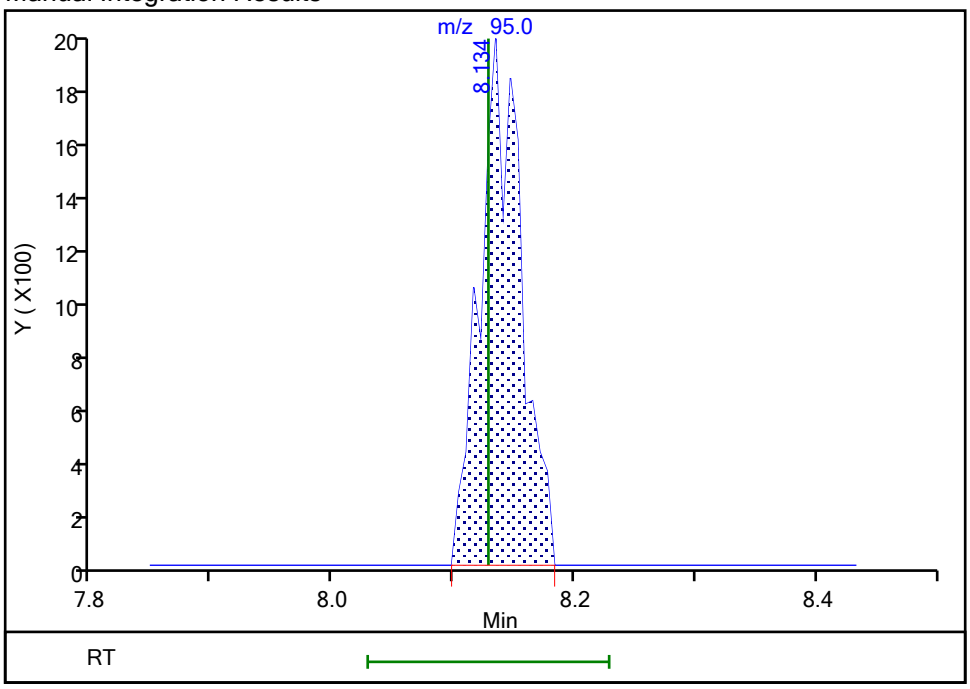
Processing Integration Results

RT: 8.13
Area: 2608
Amount: 0.048419
Amount Units: ug/l



Manual Integration Results

RT: 8.13
Area: 4519
Amount: 0.083897
Amount Units: ug/l



Reviewer: pongsawatp, 06-Oct-2022 14:12:31

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.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-28-0/1-0 Lab Sample ID: 410-99372-11

Matrix: Water Lab File ID: HO05X22.D

Analysis Method: 8260D Date Collected: 09/23/2022 12:35

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 16:33

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 303234 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	0.14	J cn	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	0.24	J	0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-28-0/1-0 Lab Sample ID: 410-99372-11

Matrix: Water Lab File ID: HO05X22.D

Analysis Method: 8260D Date Collected: 09/23/2022 12:35

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 16:33

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 303234 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	0.084	J	0.50	0.080
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		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\19094\20221005-67970.b\HO05X22.D
Lims ID: 410-99372-A-11
Client ID: HD-COD-SW-28-0/1-0
Sample Type: Client
Inject. Date: 05-Oct-2022 16:33:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0067970-023
Operator ID: knk41612 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2022 14:13:20 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:13:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50	2.123	2.123	0.000	96	2367	0.0378	
7 Vinyl chloride	62		2.239				ND	
9 Bromomethane	94		2.575				ND	
10 Chloroethane	64		2.654				ND	
18 1,1-Dichloroethene	96		3.513				ND	
19 Acetone	43	3.586	3.532	0.054	92	12344	2.08	
24 Carbon disulfide	76	3.818	3.812	0.006	98	15816	0.1394	M
* 29 t-Butyl alcohol-d10 (IS)	65	4.172	4.166	0.006	24	92841	50.0	
28 Methylene Chloride	84		4.166				ND	
33 Methyl tert-butyl ether	73		4.568				ND	
34 trans-1,2-Dichloroethene	96		4.592				ND	
37 1,1-Dichloroethane	63		5.245				ND	
42 2-Butanone (MEK)	43		6.019				ND	
43 cis-1,2-Dichloroethene	96	6.080	6.068	0.012	78	4074	0.0788	
49 Chlorobromomethane	128		6.397				ND	
52 Chloroform	83	6.549	6.549	0.000	86	5358	0.0645	
$ 53 Dibromofluoromethane (Surr)	113	6.763	6.757	0.006	94	410144	9.94	
54 1,1,1-Trichloroethane	97		6.781				ND	7
57 Carbon tetrachloride	117		6.988				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.214	7.214	0.000	66	81245	10.8	
60 Benzene	78		7.244				ND	7
62 1,2-Dichloroethane	62		7.311				ND	
* 65 Fluorobenzene (IS)	96	7.653	7.653	0.000	99	1629809	10.0	
69 Trichloroethene	95	8.134	8.128	0.006	96	4482	0.0835	
71 1,2-Dichloropropane	63		8.458				ND	
77 Dichlorobromomethane	83		8.799				ND	
81 cis-1,3-Dichloropropene	75		9.348				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.512				ND	7
$ 84 Toluene-d8 (Surr)	98	9.658	9.658	0.000	93	1692616	10.3	
85 Toluene	92	9.744	9.732	0.012	95	5447	0.0447	
86 trans-1,3-Dichloropropene	75		9.988				ND	
106 1,1,2-Trichloroethane	97		10.195				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.292	10.286	0.006	98	13691	0.2434	
109 2-Hexanone	43		10.402				ND	
111 Chlorodibromomethane	129		10.573				ND	
112 Ethylene Dibromide	107		10.683				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.115	11.109	0.006	85	1340433	10.0	
115 Chlorobenzene	112		11.140				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.219				ND	
118 Ethylbenzene	91		11.225				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.341				ND	7
120 o-Xylene	106		11.664				ND	7
121 Styrene	104		11.682				ND	7
122 Bromoform	173		11.841				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	92	643977	9.67	
127 1,1,2,2-Tetrachloroethane	83		12.207				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	95	733130	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

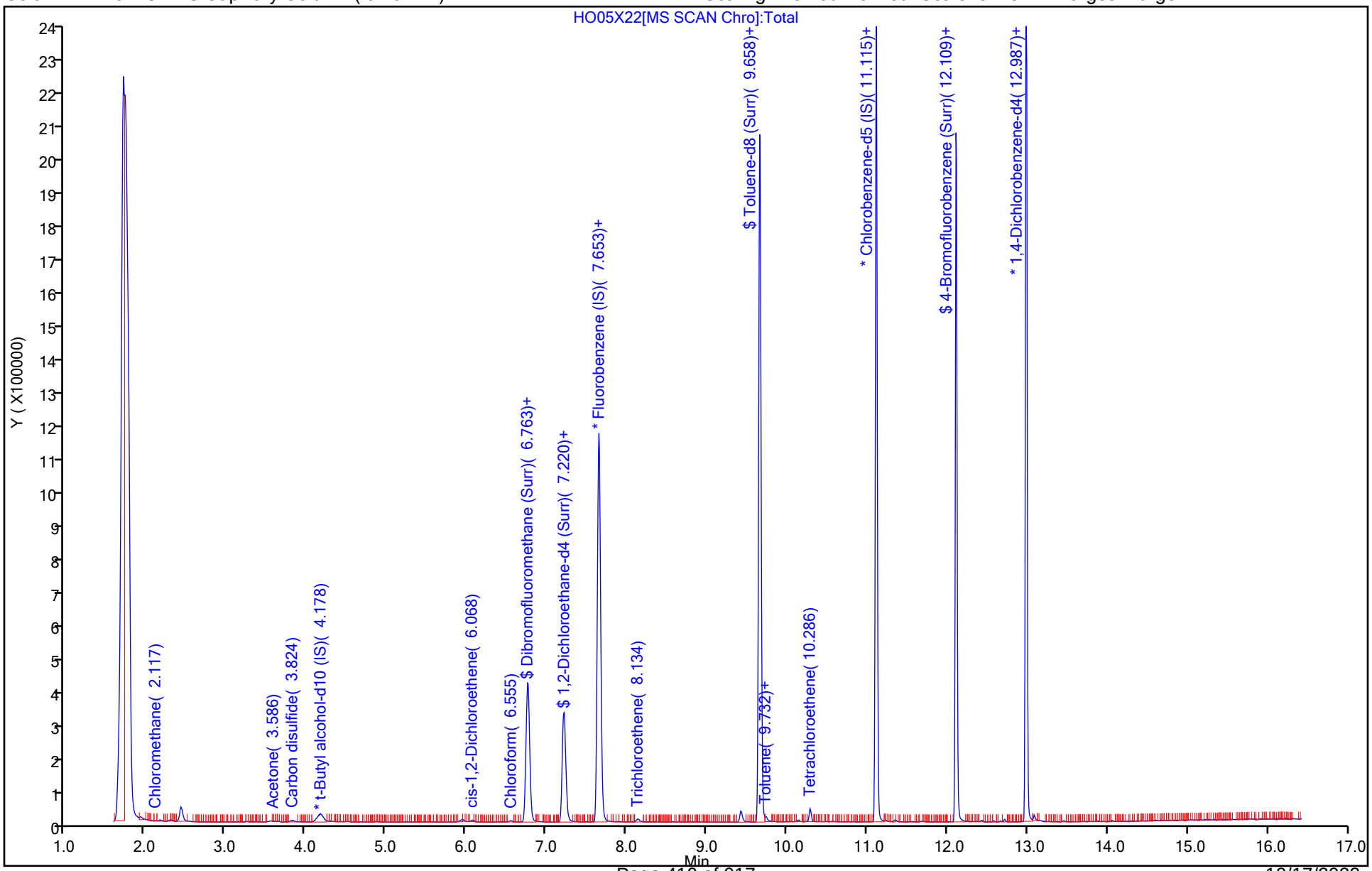
MSV_HP25_ISSS_00057 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 06-Oct-2022 14:13:21 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X22.D				
Injection Date:	05-Oct-2022 16:33:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	410-99372-A-11	Lab Sample ID:	410-99372-11	Worklist Smp#:	23
Client ID:	HD-COD-SW-28-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X22.D				
Lims ID:	410-99372-A-11				
Client ID:	HD-COD-SW-28-0/1-0				
Sample Type:	Client				
Inject. Date:	05-Oct-2022 16:33:30	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0067970-023				
Operator ID:	knk41612	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Oct-2022 14:13:20	Calib Date:	11-Jul-2022 18:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1671				

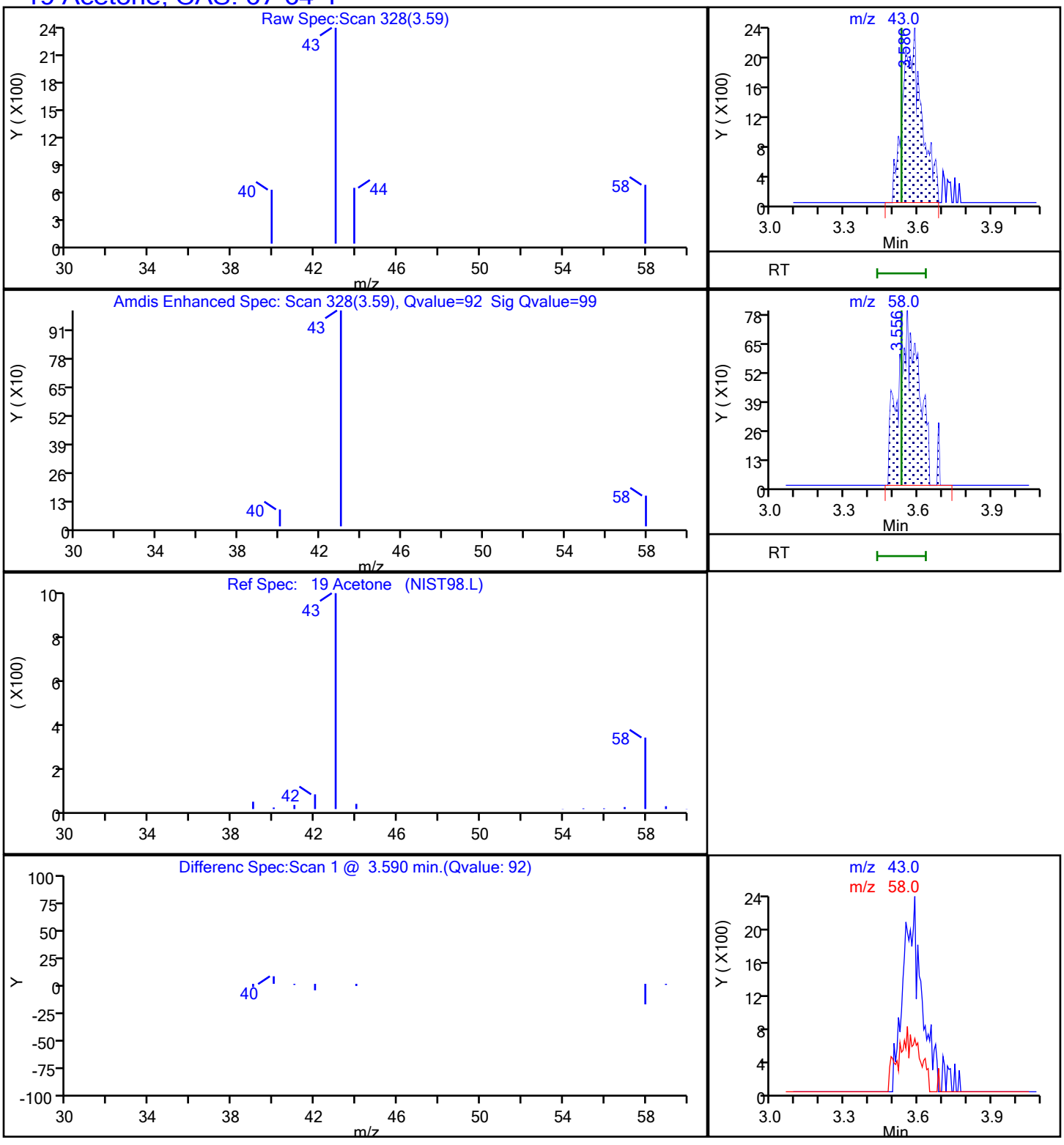
First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:13:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	9.94	99.43
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.8	107.93
$ 84 Toluene-d8 (Surr)	10.0	10.3	103.22
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.67	96.73

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X22.D				
Injection Date:	05-Oct-2022 16:33:30	Instrument ID:	19094		
Lims ID:	410-99372-A-11	Lab Sample ID:	410-99372-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

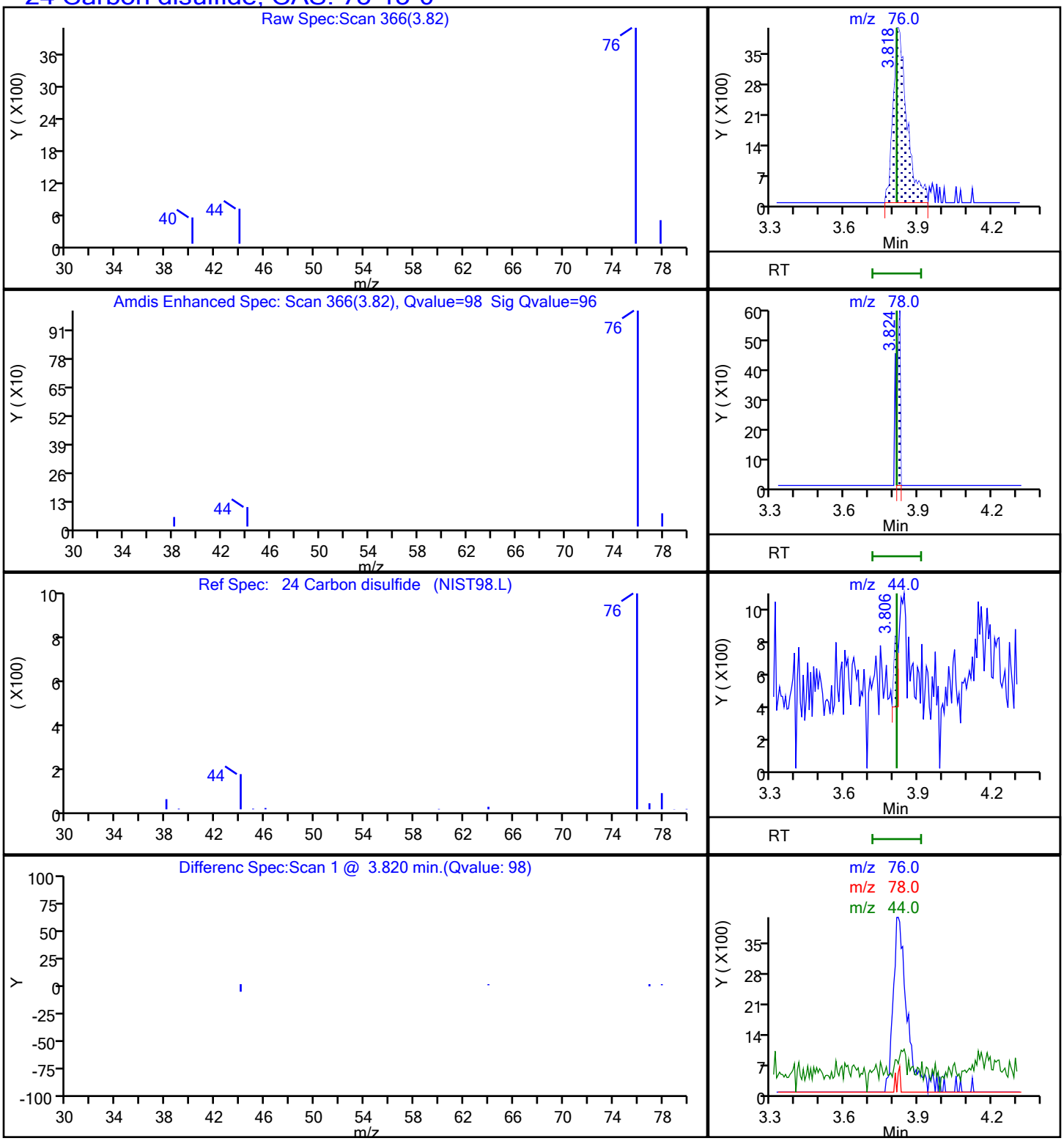
19 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X22.D				
Injection Date:	05-Oct-2022 16:33:30	Instrument ID:	19094		
Lims ID:	410-99372-A-11	Lab Sample ID:	410-99372-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

24 Carbon disulfide, CAS: 75-15-0

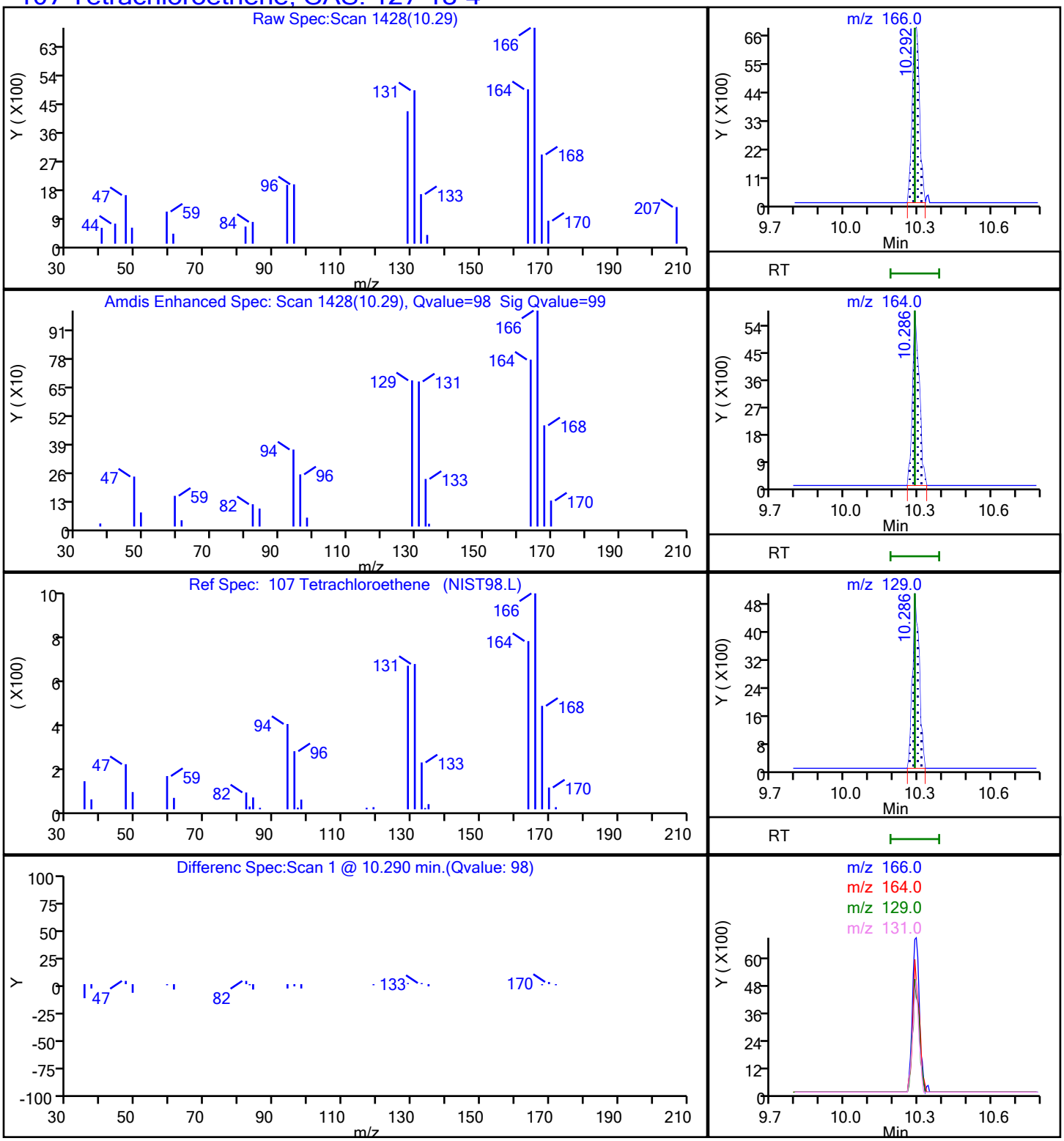


Report Date: 06-Oct-2022 14:13:21 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X22.D				
Injection Date:	05-Oct-2022 16:33:30	Instrument ID:	19094		
Lims ID:	410-99372-A-11	Lab Sample ID:	410-99372-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

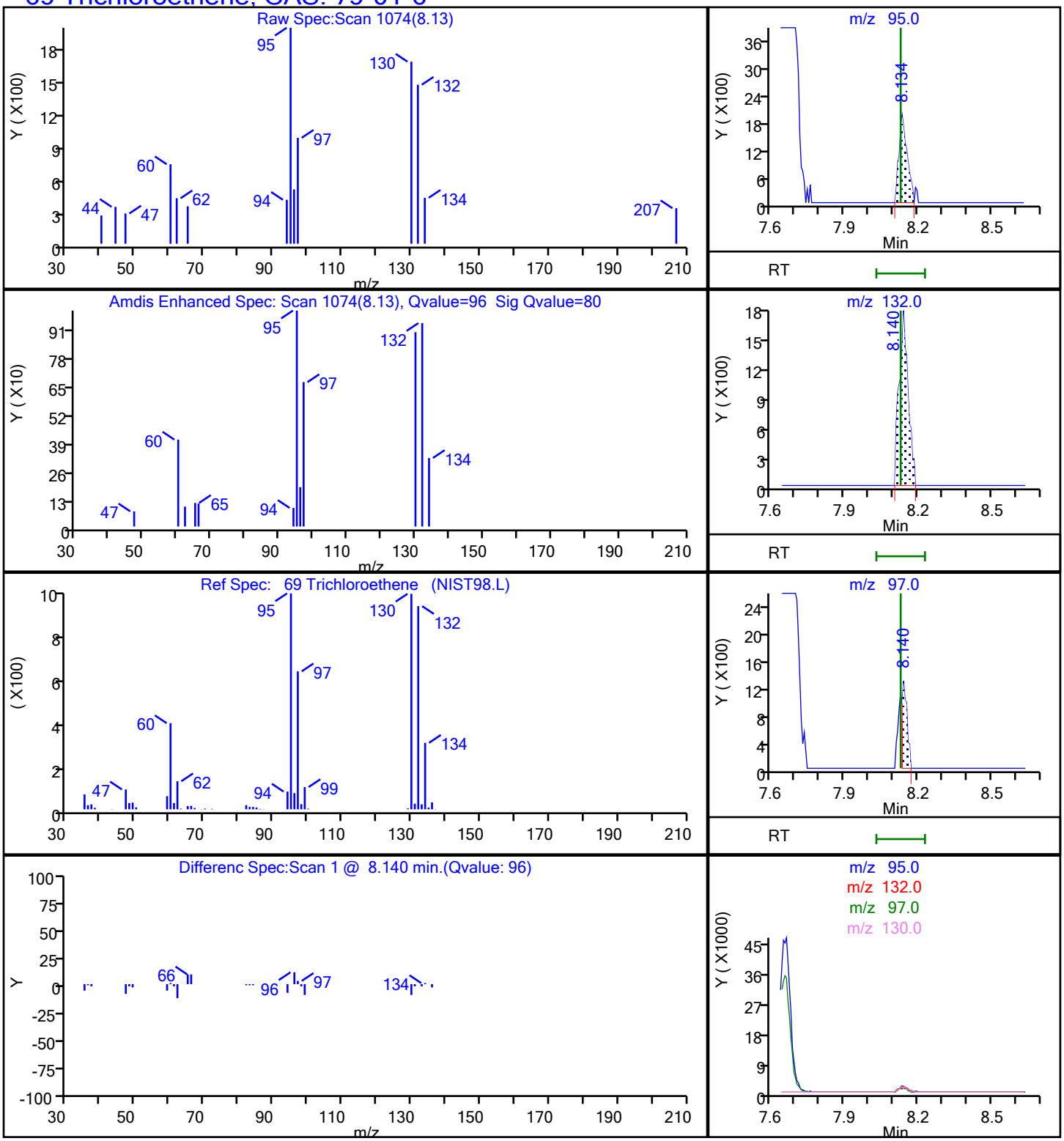
107 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X22.D				
Injection Date:	05-Oct-2022 16:33:30	Instrument ID:	19094		
Lims ID:	410-99372-A-11	Lab Sample ID:	410-99372-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

69 Trichloroethene, CAS: 79-01-6



Eurofins Lancaster Laboratories Environment Testing, LLC

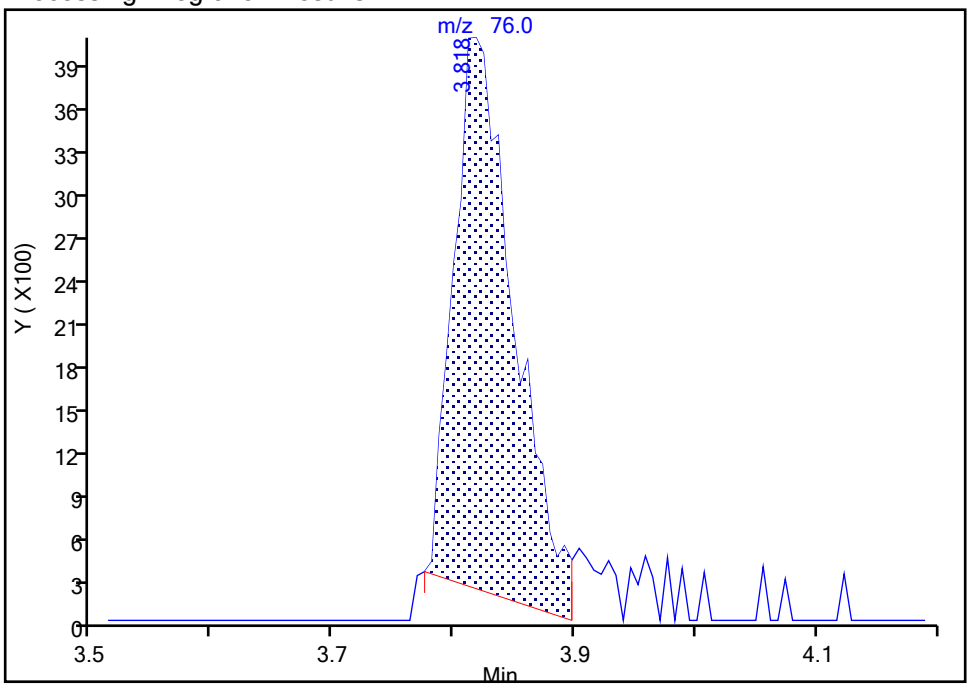
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X22.D				
Injection Date:	05-Oct-2022 16:33:30	Instrument ID:	19094		
Lims ID:	410-99372-A-11	Lab Sample ID:	410-99372-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

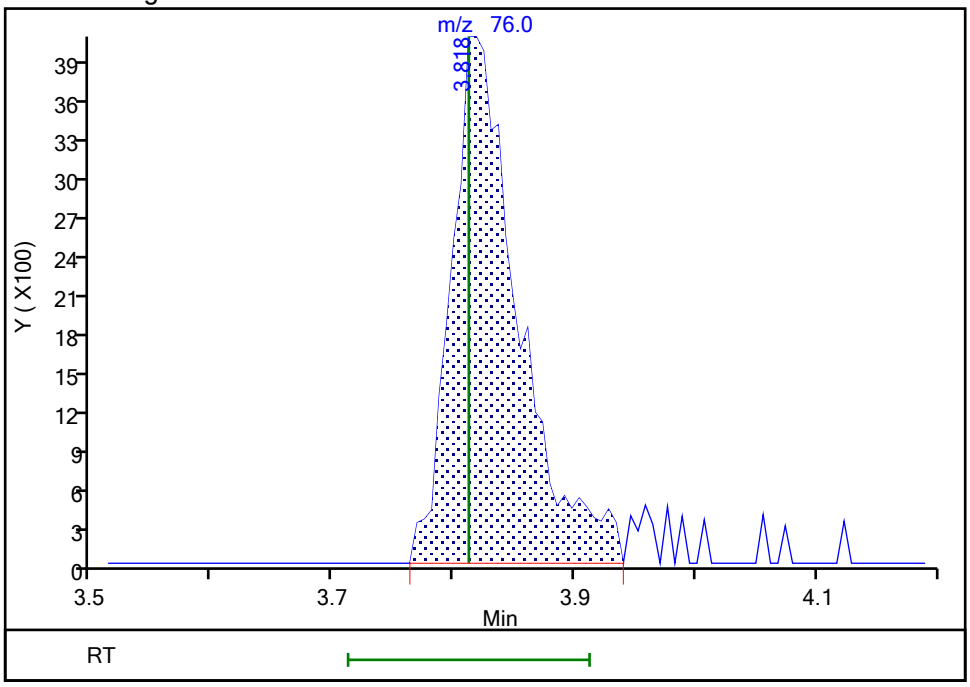
Processing Integration Results

RT: 3.82
Area: 13529
Amount: 0.119237
Amount Units: ug/l



Manual Integration Results

RT: 3.82
Area: 15816
Amount: 0.139393
Amount Units: ug/l



Reviewer: pongsawatp, 06-Oct-2022 14:13:02
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.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-29-0/1-0 Lab Sample ID: 410-99372-12

Matrix: Water Lab File ID: HO05X23.D

Analysis Method: 8260D Date Collected: 09/23/2022 08:45

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 16:53

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 303234 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070
71-55-6	1,1,1-Trichloroethane	ND		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.080
75-34-3	1,1-Dichloroethane	ND		0.50	0.10
75-35-4	1,1-Dichloroethene	ND		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.080
107-06-2	1,2-Dichloroethane	ND		0.50	0.070
78-87-5	1,2-Dichloropropane	ND		0.50	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.0
591-78-6	2-Hexanone	ND		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	1.0
67-64-1	Acetone	1.2	J	5.0	1.0
71-43-2	Benzene	ND		0.50	0.10
74-97-5	Bromochloromethane	ND		0.50	0.080
75-27-4	Bromodichloromethane	ND		0.50	0.080
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.10
75-15-0	Carbon disulfide	0.12	J cn	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	0.12	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	0.44	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.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-29-0/1-0 Lab Sample ID: 410-99372-12

Matrix: Water Lab File ID: HO05X23.D

Analysis Method: 8260D Date Collected: 09/23/2022 08:45

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 16:53

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 303234 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		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\19094\20221005-67970.b\HO05X23.D
Lims ID: 410-99372-A-12
Client ID: HD-COD-SW-29-0/1-0
Sample Type: Client
Inject. Date: 05-Oct-2022 16:53:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0067970-024
Operator ID: knk41612 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2022 14:13:57 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:13:57

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	5 Chloromethane	50	2.117	2.123	-0.006	66	4092	0.0659	
	7 Vinyl chloride	62		2.239				ND	
	9 Bromomethane	94		2.575				ND	
	10 Chloroethane	64		2.654				ND	
	18 1,1-Dichloroethene	96		3.513				ND	
	19 Acetone	43	3.562	3.532	0.030	68	7004	1.22	
	24 Carbon disulfide	76	3.824	3.812	0.012	98	13331	0.1184	M
*	29 t-Butyl alcohol-d10 (IS)	65	4.172	4.166	0.006	19	90022	50.0	
	28 Methylene Chloride	84		4.166				ND	
	33 Methyl tert-butyl ether	73		4.568				ND	
	34 trans-1,2-Dichloroethene	96		4.592				ND	
	37 1,1-Dichloroethane	63		5.245				ND	
	42 2-Butanone (MEK)	43		6.019				ND	7
	43 cis-1,2-Dichloroethene	96	6.074	6.068	0.006	80	6359	0.1239	
	49 Chlorobromomethane	128		6.397				ND	
	52 Chloroform	83	6.543	6.549	-0.006	88	4681	0.0568	
$	53 Dibromofluoromethane (Surr)	113	6.763	6.757	0.006	94	405129	9.90	
	54 1,1,1-Trichloroethane	97		6.781				ND	7
	57 Carbon tetrachloride	117		6.988				ND	
$	59 1,2-Dichloroethane-d4 (Surr)	102	7.220	7.214	0.006	52	75874	10.2	
	60 Benzene	78		7.244				ND	7
	62 1,2-Dichloroethane	62		7.311				ND	7
*	65 Fluorobenzene (IS)	96	7.653	7.653	0.000	99	1617249	10.0	
	69 Trichloroethene	95	8.134	8.128	0.006	95	7137	0.1341	
	71 1,2-Dichloropropane	63		8.458				ND	
	77 Dichlorobromomethane	83		8.799				ND	
	81 cis-1,3-Dichloropropene	75		9.348				ND	
	83 4-Methyl-2-pentanone (MIBK)	43		9.512				ND	
$	84 Toluene-d8 (Surr)	98	9.658	9.658	0.000	93	1683795	10.3	
	85 Toluene	92	9.744	9.732	0.012	98	4905	0.0402	
	86 trans-1,3-Dichloropropene	75		9.988				ND	
	106 1,1,2-Trichloroethane	97		10.195				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.286	10.286	0.000	97	24641	0.4375	
109 2-Hexanone	43		10.402				ND	
111 Chlorodibromomethane	129		10.573				ND	
112 Ethylene Dibromide	107		10.683				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.115	11.109	0.006	85	1342229	10.0	
115 Chlorobenzene	112		11.140				ND	
116 1,1,1,2-Tetrachloroethane	131		11.219				ND	
118 Ethylbenzene	91		11.225				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.341				ND	7
120 o-Xylene	106		11.664				ND	7
121 Styrene	104		11.682				ND	
122 Bromoform	173		11.841				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	92	633610	9.50	
127 1,1,2,2-Tetrachloroethane	83		12.207				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	94	725202	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

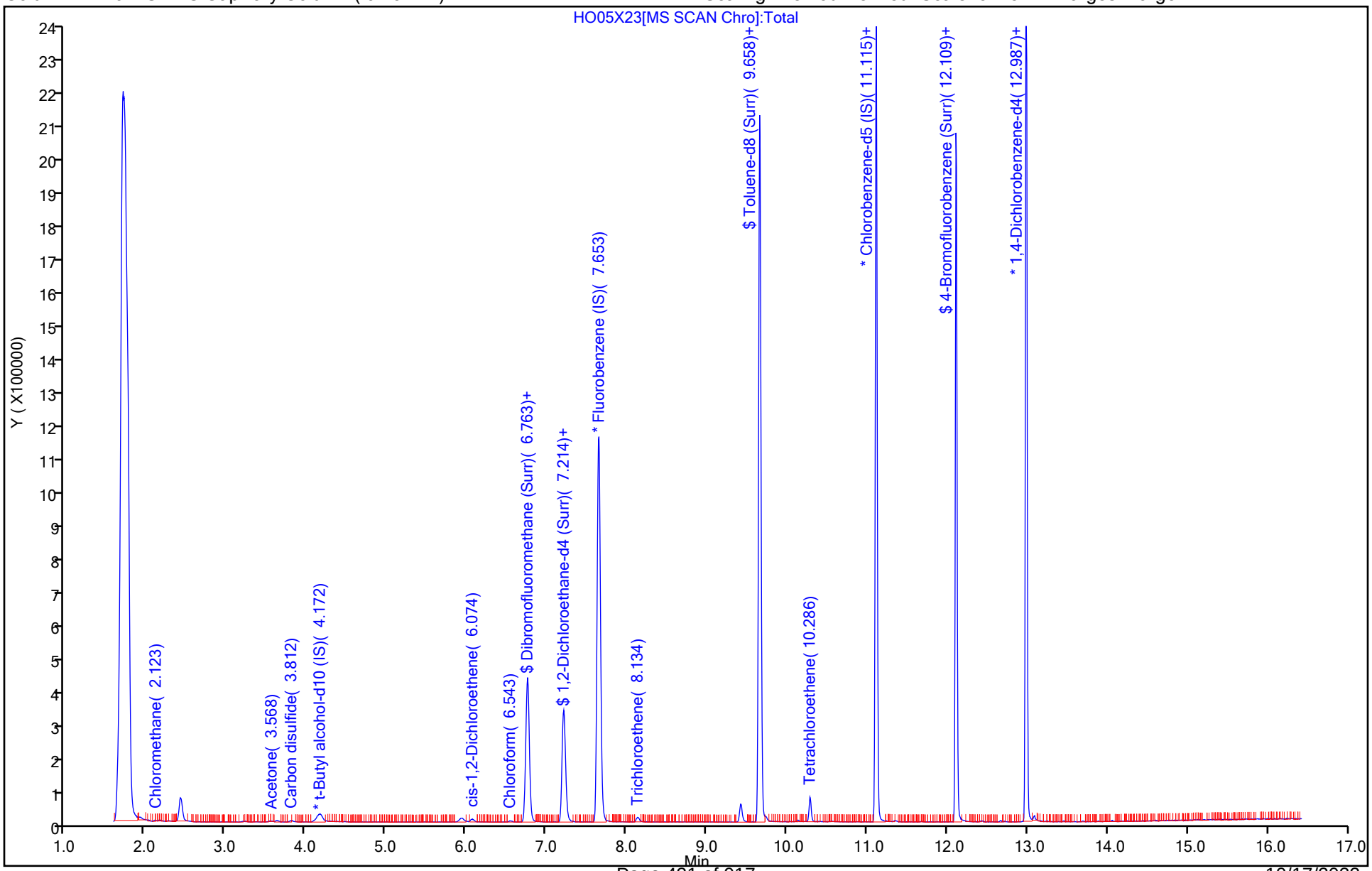
MSV_HP25_ISSS_00057 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 06-Oct-2022 14:13:58 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X23.D				
Injection Date:	05-Oct-2022 16:53:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	410-99372-A-12	Lab Sample ID:	410-99372-12	Worklist Smp#:	24
Client ID:	HD-COD-SW-29-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X23.D				
Lims ID:	410-99372-A-12				
Client ID:	HD-COD-SW-29-0/1-0				
Sample Type:	Client				
Inject. Date:	05-Oct-2022 16:53:30	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0067970-024				
Operator ID:	knk41612	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Oct-2022 14:13:57	Calib Date:	11-Jul-2022 18:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1671				

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:13:57

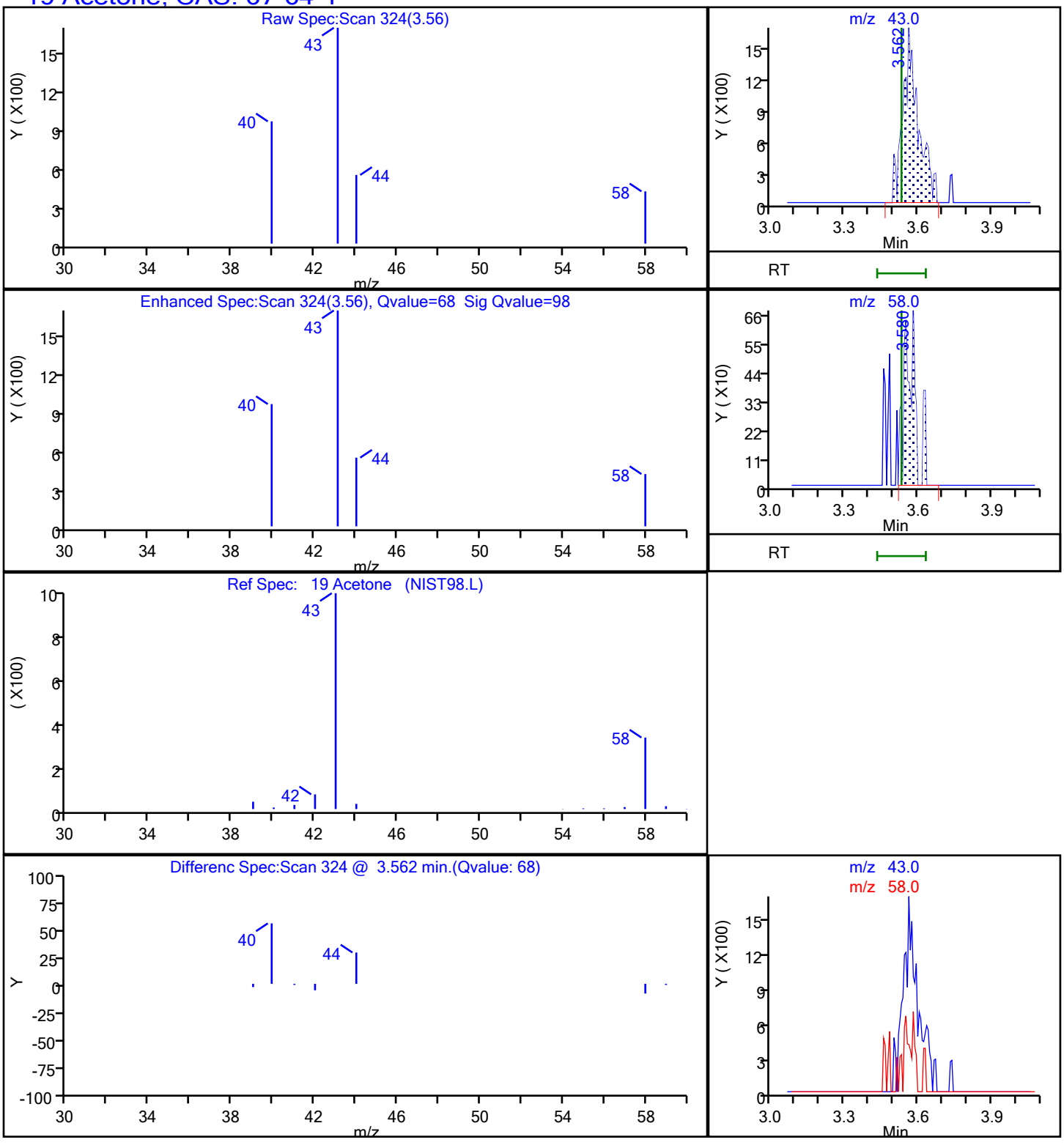
Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	9.90	98.97
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	101.58
$ 84 Toluene-d8 (Surr)	10.0	10.3	102.54
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.50	95.05

Report Date: 06-Oct-2022 14:13:58 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X23.D				
Injection Date:	05-Oct-2022 16:53:30	Instrument ID:	19094		
Lims ID:	410-99372-A-12	Lab Sample ID:	410-99372-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

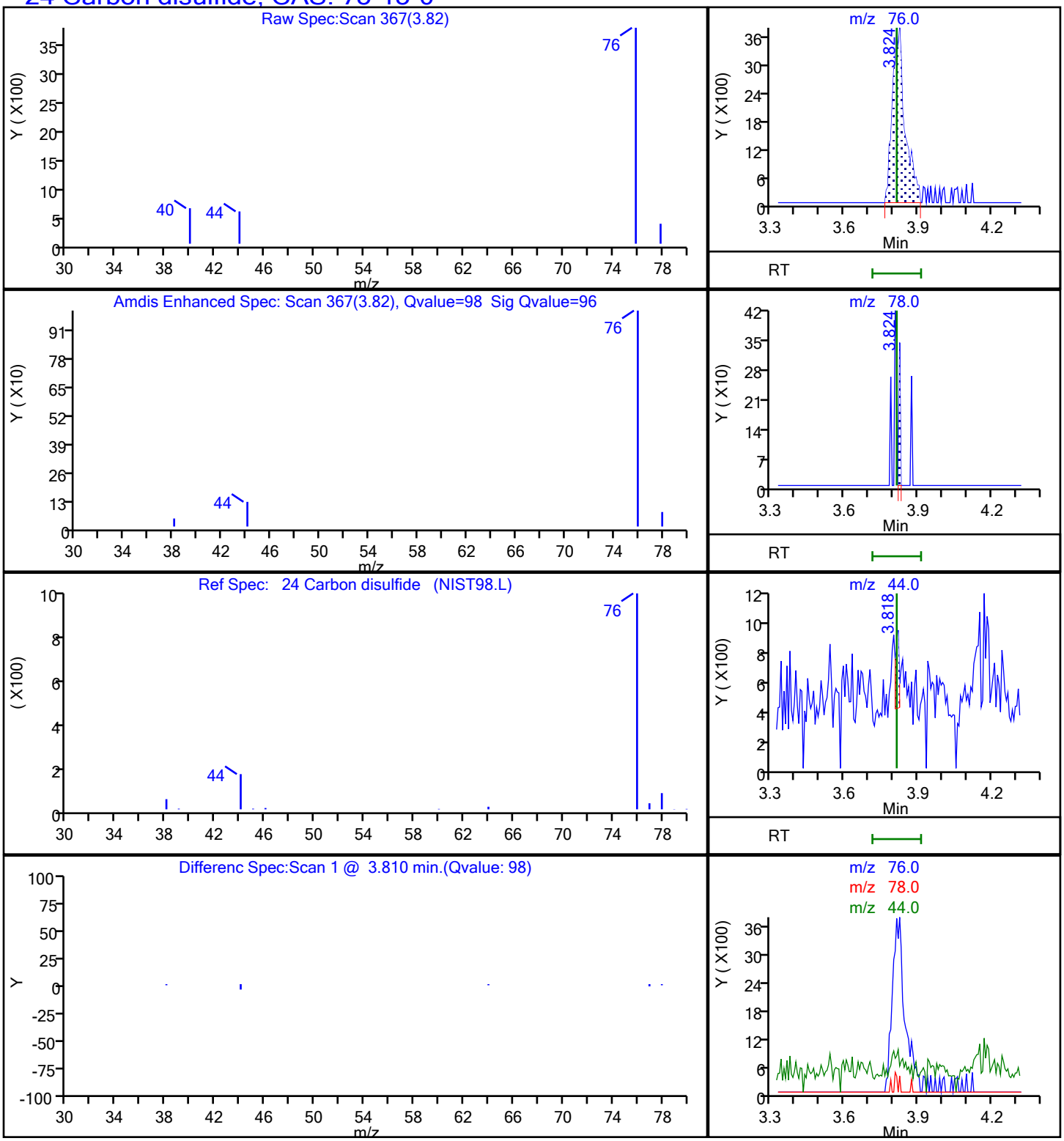
19 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X23.D				
Injection Date:	05-Oct-2022 16:53:30	Instrument ID:	19094		
Lims ID:	410-99372-A-12	Lab Sample ID:	410-99372-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

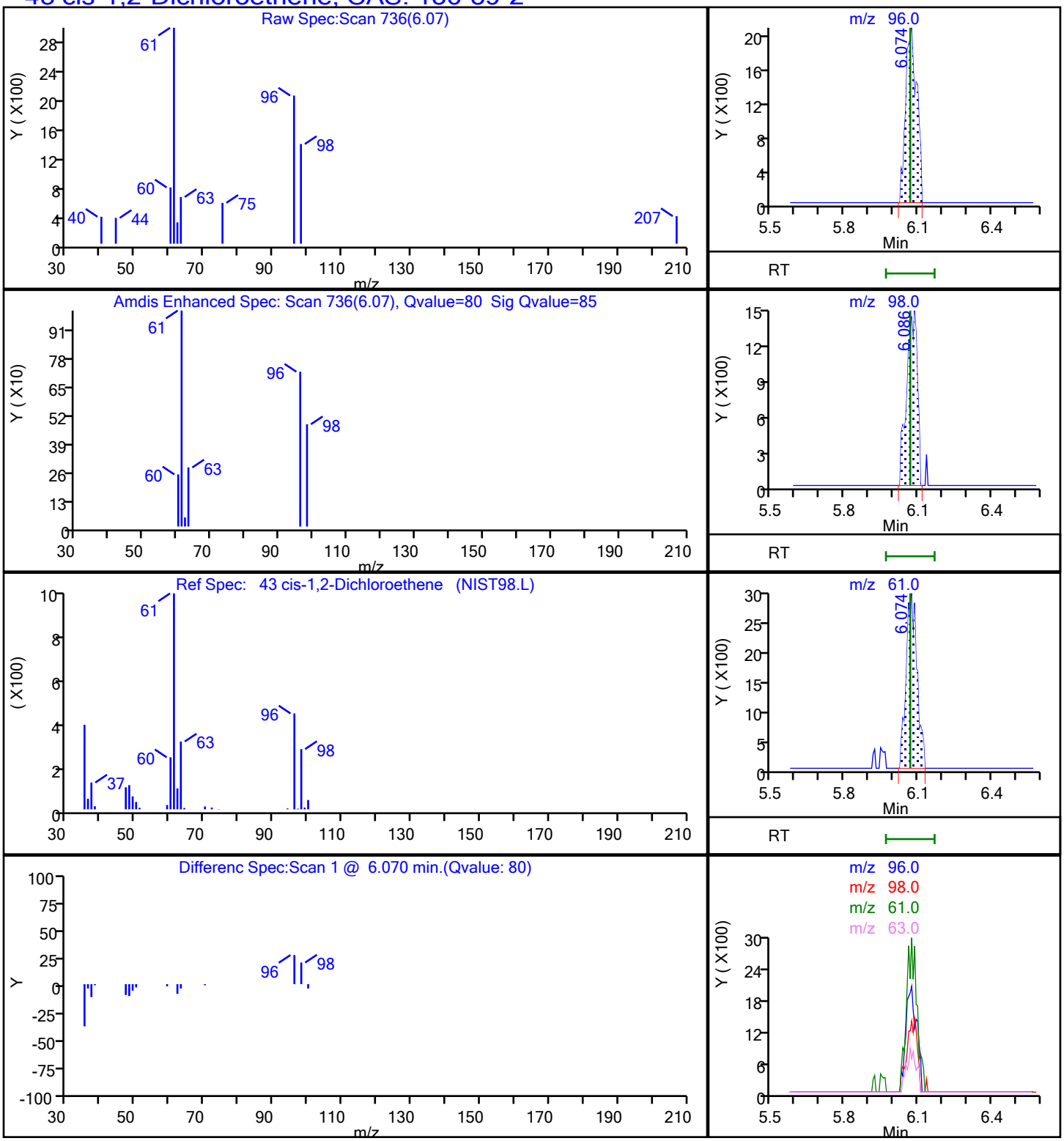
24 Carbon disulfide, CAS: 75-15-0



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X23.D				
Injection Date:	05-Oct-2022 16:53:30	Instrument ID:	19094		
Lims ID:	410-99372-A-12	Lab Sample ID:	410-99372-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

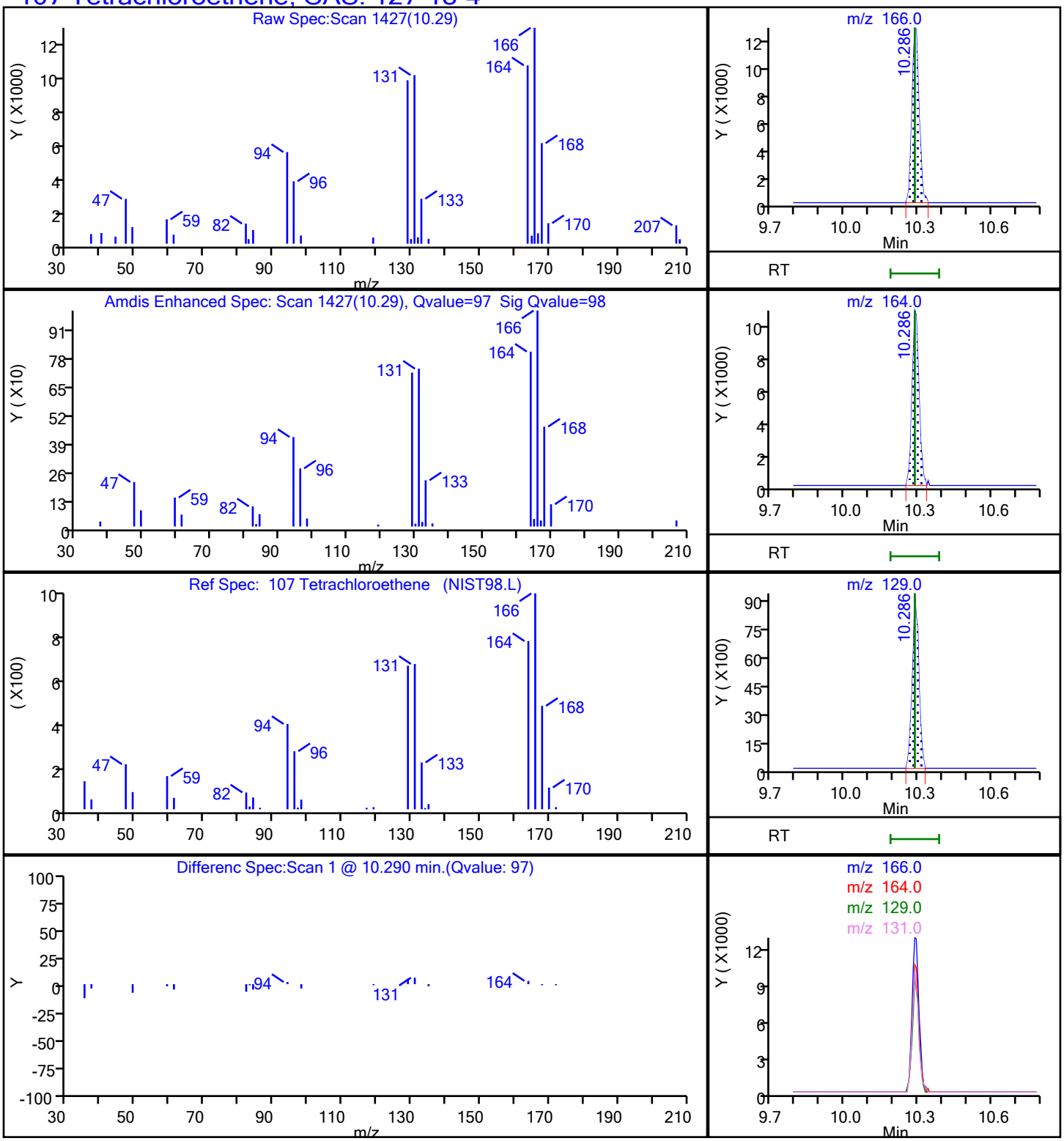


Report Date: 06-Oct-2022 14:13:58 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X23.D				
Injection Date:	05-Oct-2022 16:53:30	Instrument ID:	19094		
Lims ID:	410-99372-A-12	Lab Sample ID:	410-99372-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

107 Tetrachloroethene, CAS: 127-18-4

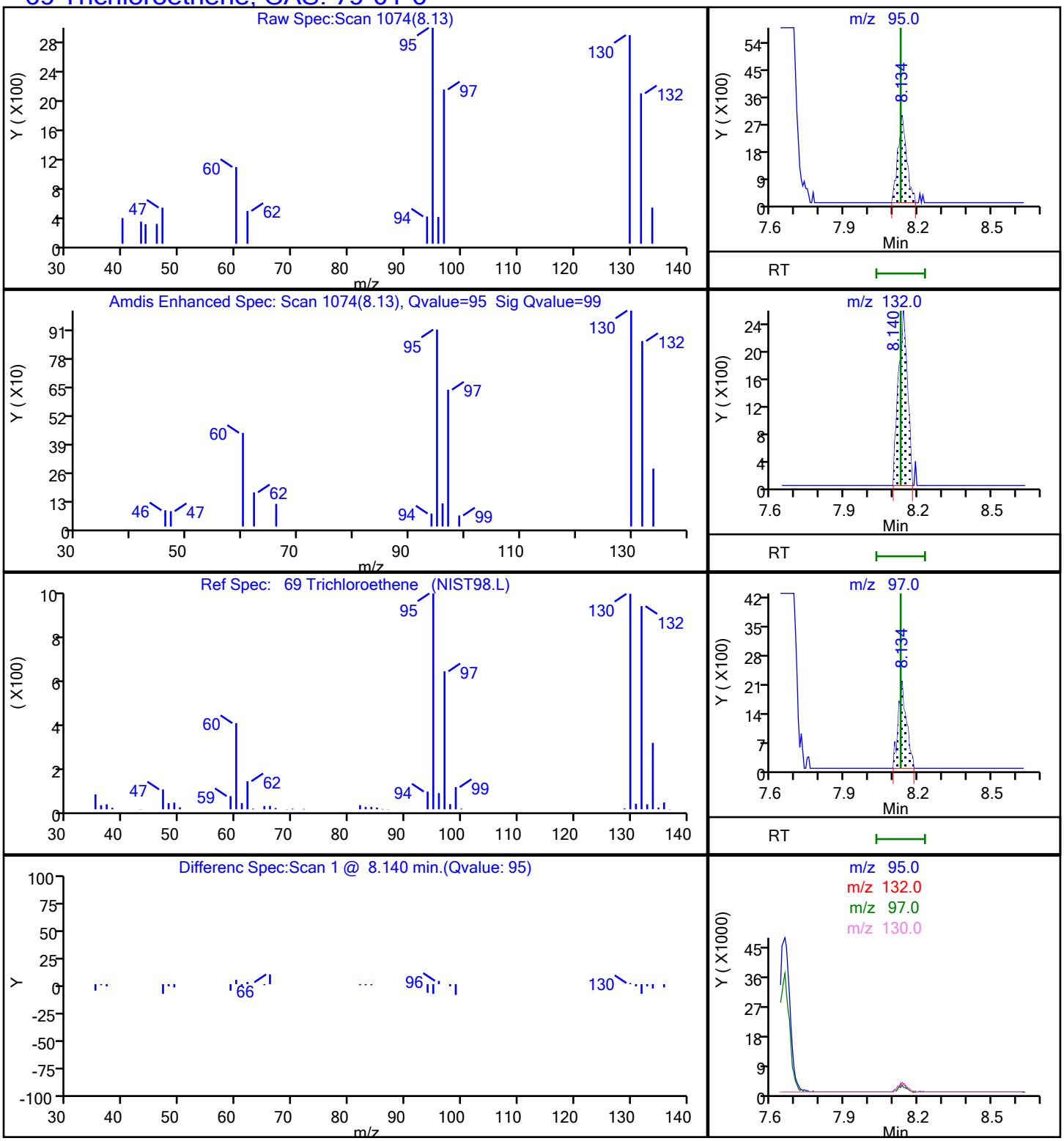


Report Date: 06-Oct-2022 14:13:58 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X23.D				
Injection Date:	05-Oct-2022 16:53:30	Instrument ID:	19094		
Lims ID:	410-99372-A-12	Lab Sample ID:	410-99372-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

69 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

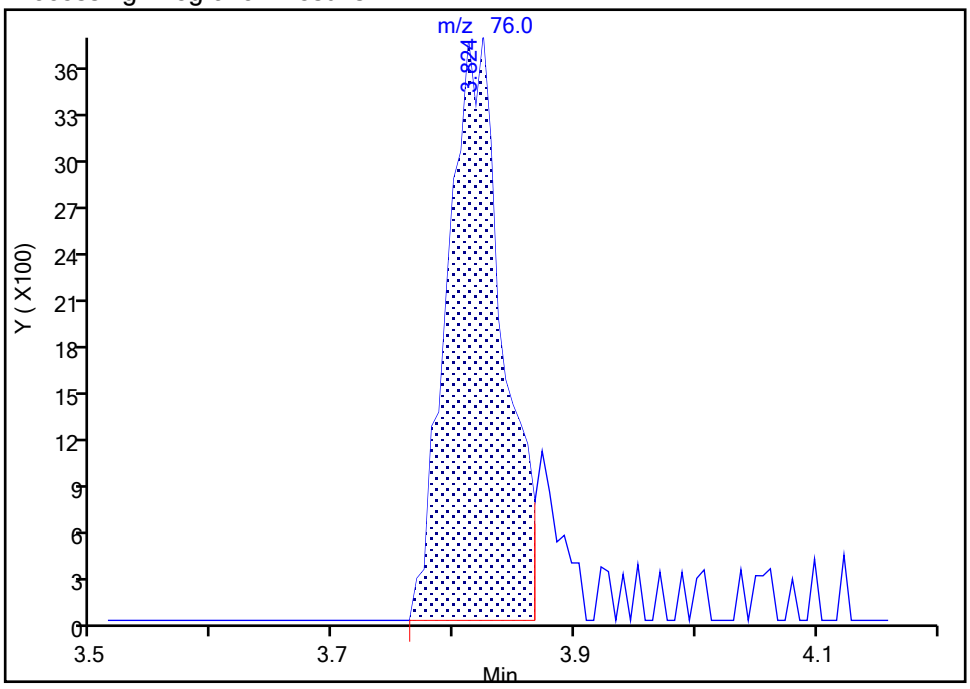
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X23.D				
Injection Date:	05-Oct-2022 16:53:30	Instrument ID:	19094		
Lims ID:	410-99372-A-12	Lab Sample ID:	410-99372-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

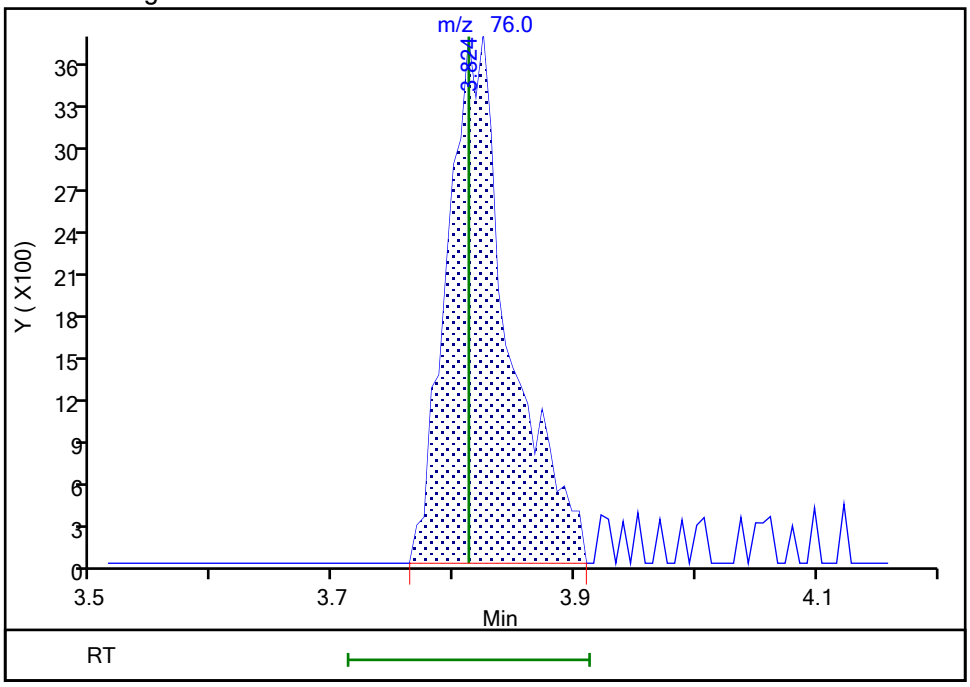
Processing Integration Results

RT: 3.82
Area: 11986
Amount: 0.106458
Amount Units: ug/l



Manual Integration Results

RT: 3.82
Area: 13331
Amount: 0.118404
Amount Units: ug/l



Reviewer: pongsawatp, 06-Oct-2022 14:13:40

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.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-QC1-0/1-1 Lab Sample ID: 410-99372-13

Matrix: Water Lab File ID: HO05X24.D

Analysis Method: 8260D Date Collected: 09/23/2022 08:00

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 17:13

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.: 303234 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	6.0		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	1.2		0.50	0.10
75-35-4	1,1-Dichloroethene	0.54		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	3.0		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
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.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-QC1-0/1-1 Lab Sample ID: 410-99372-13

Matrix: Water Lab File ID: HO05X24.D

Analysis Method: 8260D Date Collected: 09/23/2022 08:00

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 17:13

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.: 303234 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.080
79-01-6	Trichloroethene	4.6		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)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		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\19094\20221005-67970.b\HO05X24.D
Lims ID: 410-99372-A-13
Client ID: HD-COD-QC1-0/1-1
Sample Type: Client
Inject. Date: 05-Oct-2022 17:13:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0067970-025
Operator ID: knk41612 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2022 14:15:41 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:15:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.123				ND	
7 Vinyl chloride	62		2.239				ND	7
9 Bromomethane	94		2.575				ND	
10 Chloroethane	64		2.654				ND	
18 1,1-Dichloroethene	96	3.513	3.513	0.000	98	22960	0.5412	
19 Acetone	43		3.532				ND	U
24 Carbon disulfide	76	3.818	3.812	0.006	94	10511	0.0926	M
* 29 t-Butyl alcohol-d10 (IS)	65	4.171	4.166	0.005	19	98676	50.0	
28 Methylene Chloride	84		4.166				ND	
33 Methyl tert-butyl ether	73	4.549	4.568	-0.019	1	3729	0.0393	
34 trans-1,2-Dichloroethene	96	4.610	4.592	0.018	11	1460	0.0310	
37 1,1-Dichloroethane	63	5.238	5.245	-0.007	96	108281	1.23	
42 2-Butanone (MEK)	43		6.019				ND	7
43 cis-1,2-Dichloroethene	96	6.067	6.068	-0.001	80	153589	2.97	
49 Chlorobromomethane	128		6.397				ND	
52 Chloroform	83	6.543	6.549	-0.006	90	25099	0.3020	
$ 53 Dibromofluoromethane (Surr)	113	6.756	6.757	-0.001	94	411433	9.96	
54 1,1,1-Trichloroethane	97	6.781	6.781	0.000	99	461197	5.96	
57 Carbon tetrachloride	117	6.994	6.988	0.006	4	2268	0.0339	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.220	7.214	0.006	53	79933	10.6	
60 Benzene	78		7.244				ND	7
62 1,2-Dichloroethane	62		7.311				ND	7
* 65 Fluorobenzene (IS)	96	7.653	7.653	-0.001	99	1631332	10.0	
69 Trichloroethene	95	8.128	8.128	0.000	99	248528	4.63	
71 1,2-Dichloropropane	63		8.458				ND	
77 Dichlorobromomethane	83		8.799				ND	
81 cis-1,3-Dichloropropene	75		9.348				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.512				ND	7
$ 84 Toluene-d8 (Surr)	98	9.658	9.658	0.000	93	1697894	10.1	
85 Toluene	92	9.737	9.732	0.005	97	7200	0.0578	
86 trans-1,3-Dichloropropene	75		9.988				ND	
106 1,1,2-Trichloroethane	97		10.195				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.286	10.286	0.000	98	4411026	76.7	E
109 2-Hexanone	43		10.402				ND	
111 Chlorodibromomethane	129		10.573				ND	7
112 Ethylene Dibromide	107		10.683				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.115	11.109	0.006	86	1369889	10.0	
115 Chlorobenzene	112		11.140				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.219				ND	
118 Ethylbenzene	91		11.225				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.341				ND	7
120 o-Xylene	106		11.664				ND	7
121 Styrene	104		11.682				ND	
122 Bromoform	173		11.841				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	92	645555	9.49	
127 1,1,2,2-Tetrachloroethane	83		12.207				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	94	739777	10.0	

QC Flag Legend

Processing Flags
- E - Exceeded Maximum Amount
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected

Reagents:

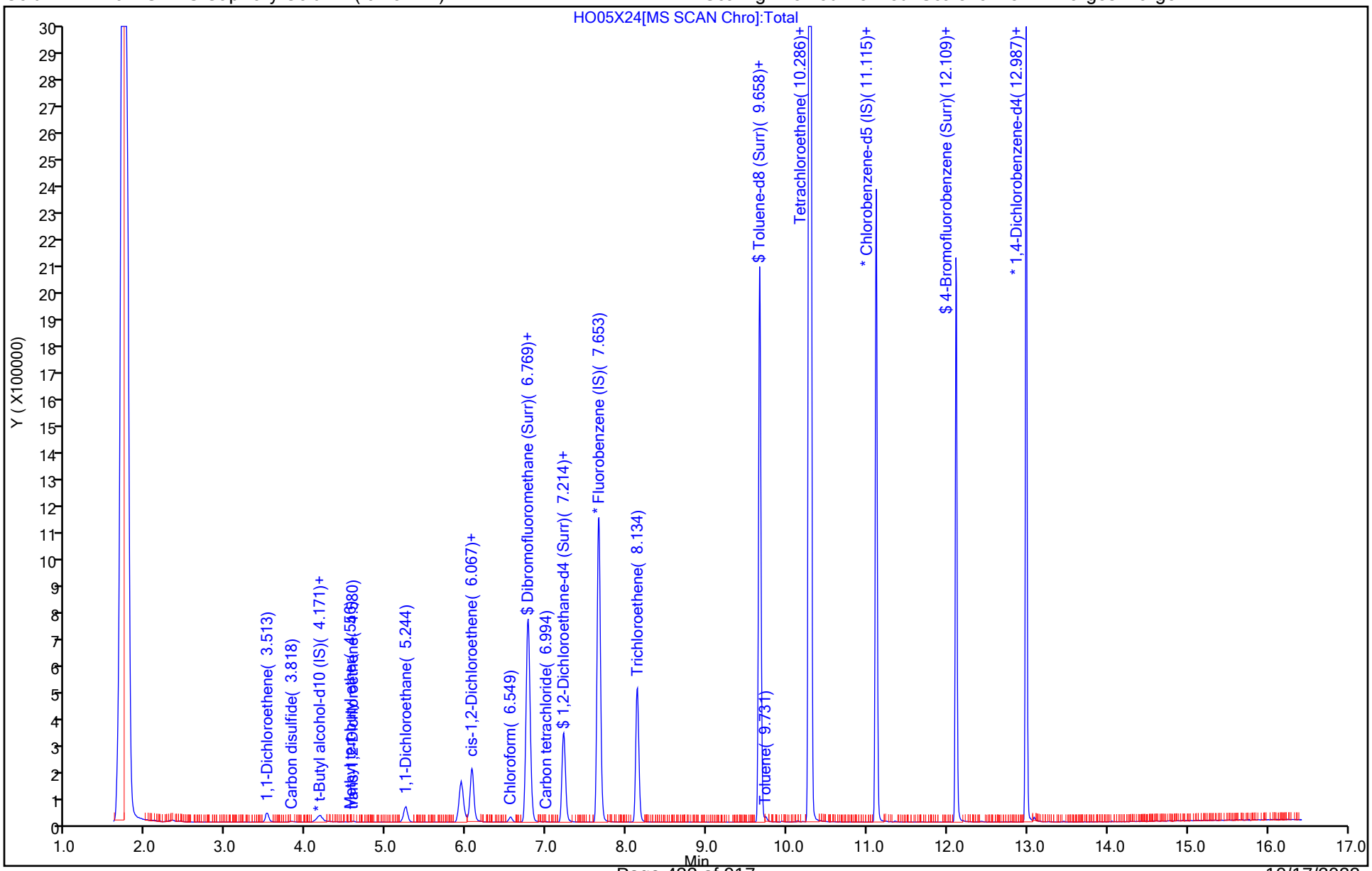
MSV_HP25_ISSS_00057 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 06-Oct-2022 14:15:41 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X24.D				
Injection Date:	05-Oct-2022 17:13:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	410-99372-A-13	Lab Sample ID:	410-99372-13	Worklist Smp#:	25
Client ID:	HD-COD-QC1-0/1-1				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X24.D				
Lims ID:	410-99372-A-13				
Client ID:	HD-COD-QC1-0/1-1				
Sample Type:	Client				
Inject. Date:	05-Oct-2022 17:13:30	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0067970-025				
Operator ID:	knk41612	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Oct-2022 14:15:41	Calib Date:	11-Jul-2022 18:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1671				

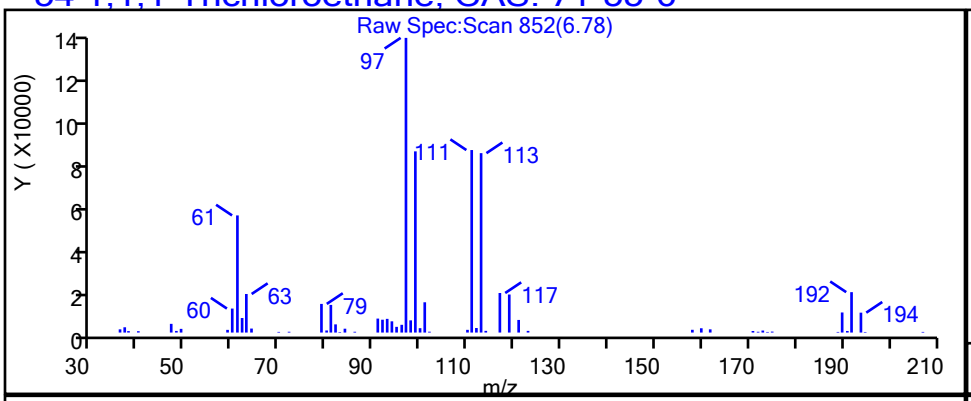
First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:15:41

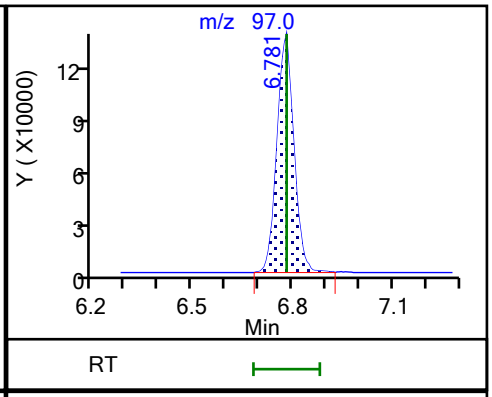
Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	9.96	99.64
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	106.09
$ 84 Toluene-d8 (Surr)	10.0	10.1	101.31
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.49	94.89

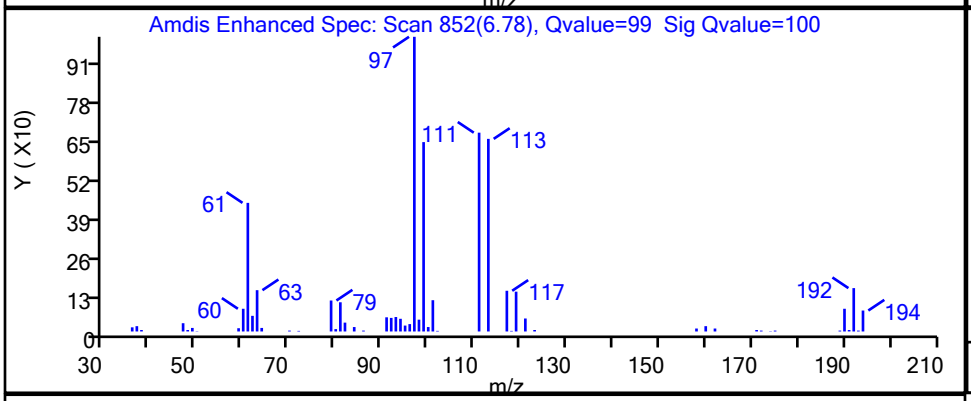
Eurofins Lancaster Laboratories Environment Testing, LLC

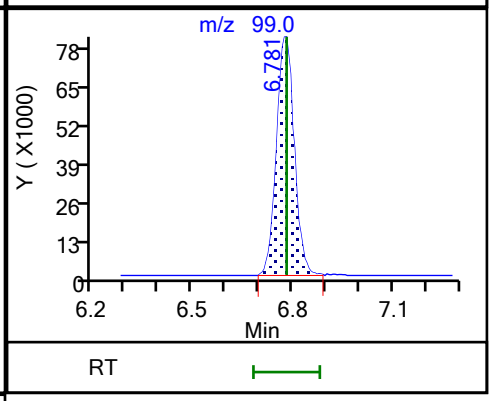
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X24.D				
Injection Date:	05-Oct-2022 17:13:30	Instrument ID:	19094		
Lims ID:	410-99372-A-13	Lab Sample ID:	410-99372-13		
Client ID:	HD-COD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

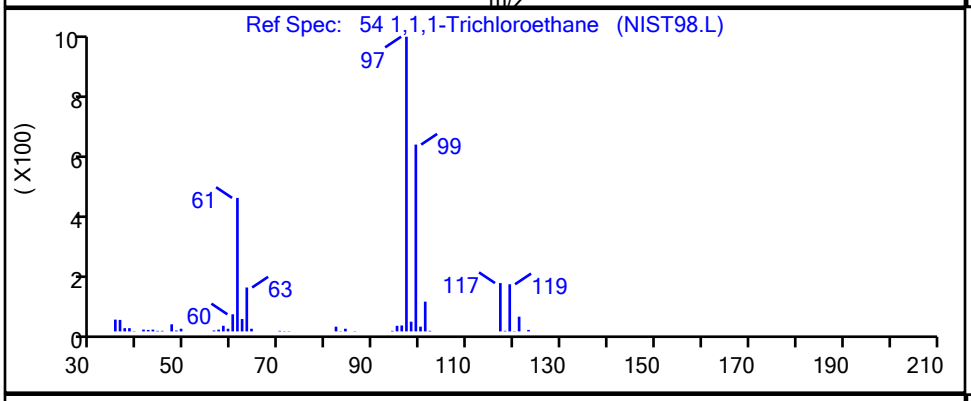
54 1,1,1-Trichloroethane, CAS: 71-55-6

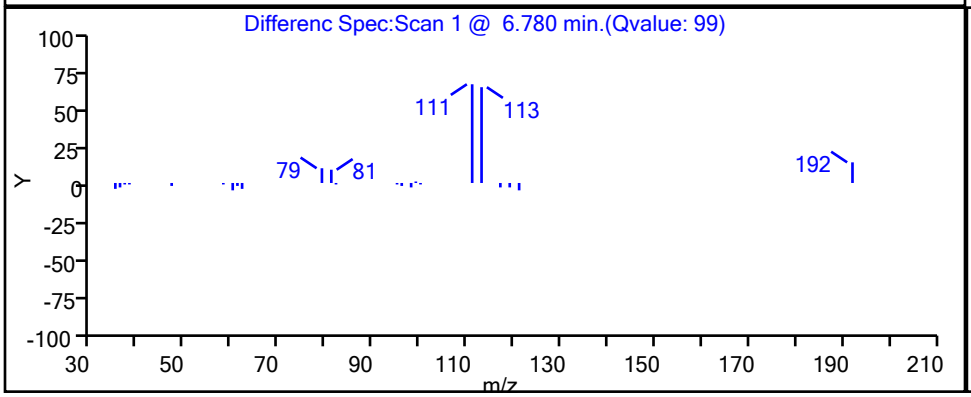


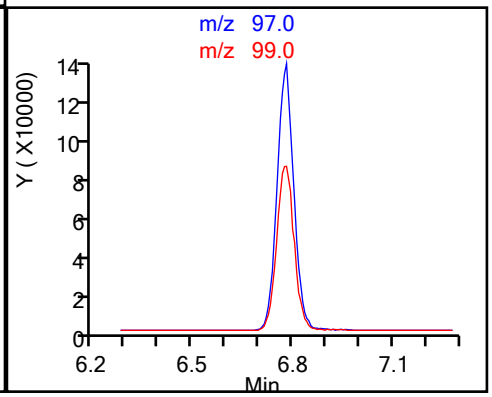








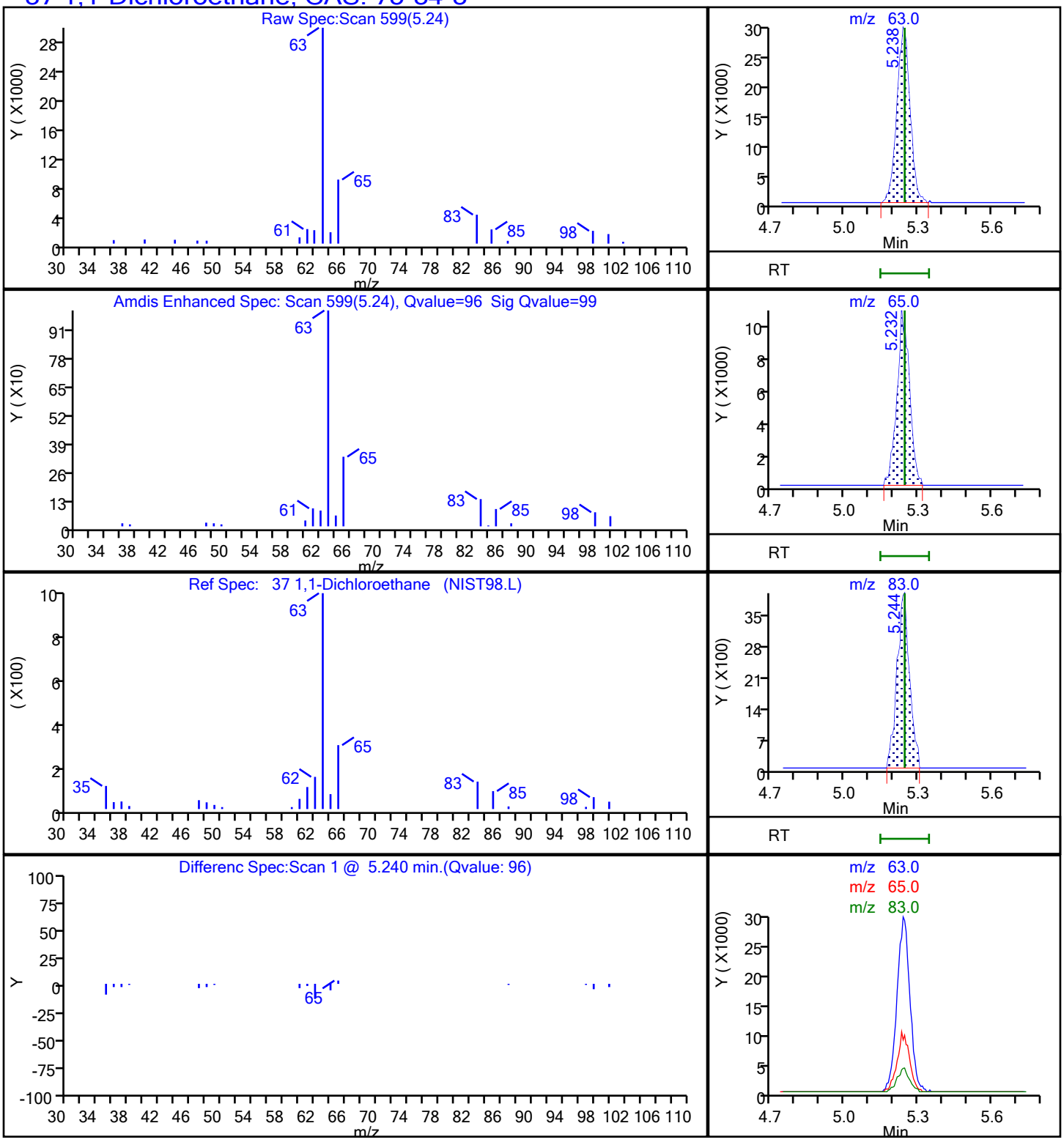




Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X24.D				
Injection Date:	05-Oct-2022 17:13:30	Instrument ID:	19094		
Lims ID:	410-99372-A-13	Lab Sample ID:	410-99372-13		
Client ID:	HD-COD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

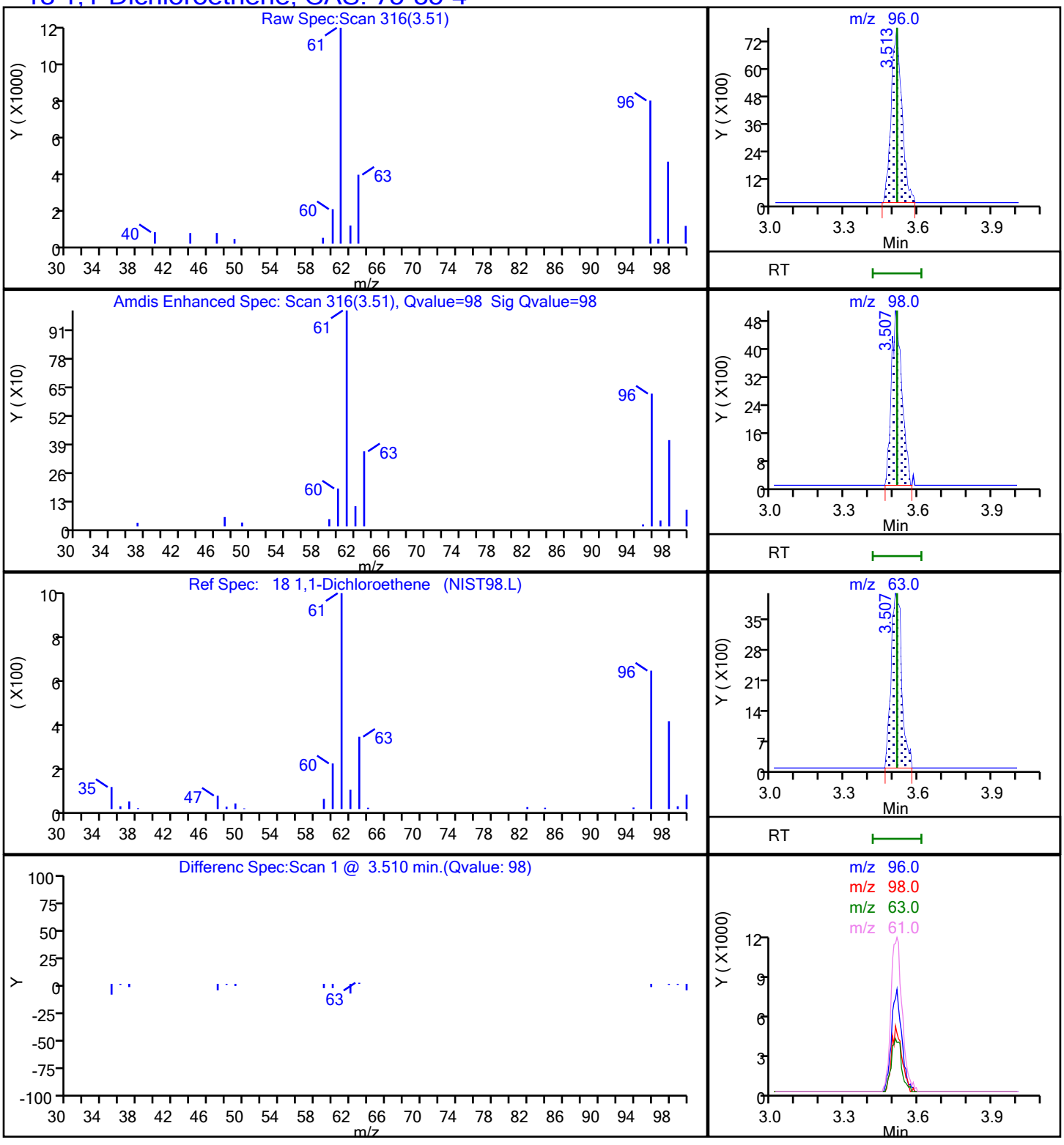
37 1,1-Dichloroethane, CAS: 75-34-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X24.D				
Injection Date:	05-Oct-2022 17:13:30	Instrument ID:	19094		
Lims ID:	410-99372-A-13	Lab Sample ID:	410-99372-13		
Client ID:	HD-COD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

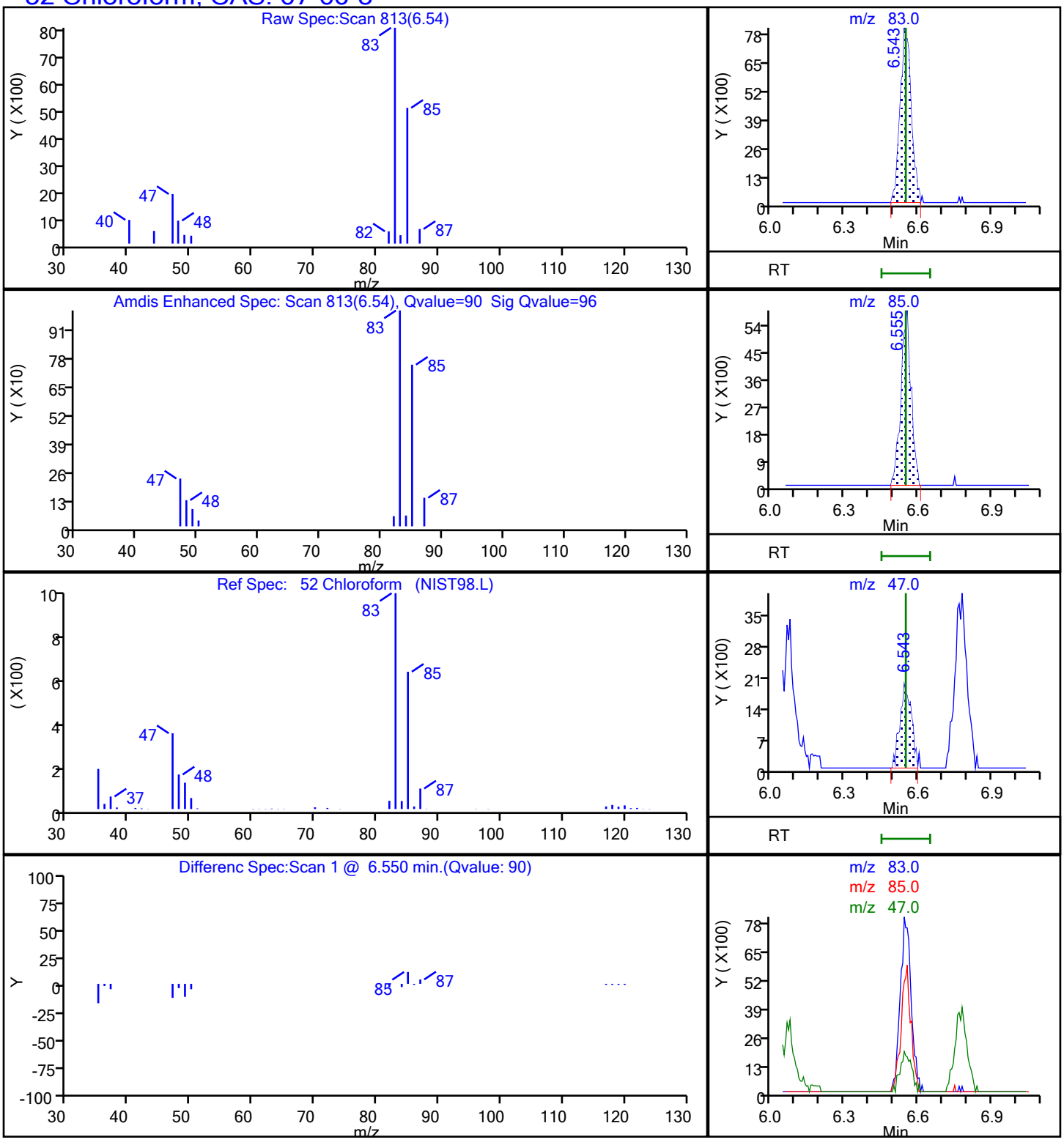
18 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X24.D				
Injection Date:	05-Oct-2022 17:13:30	Instrument ID:	19094		
Lims ID:	410-99372-A-13	Lab Sample ID:	410-99372-13		
Client ID:	HD-COD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

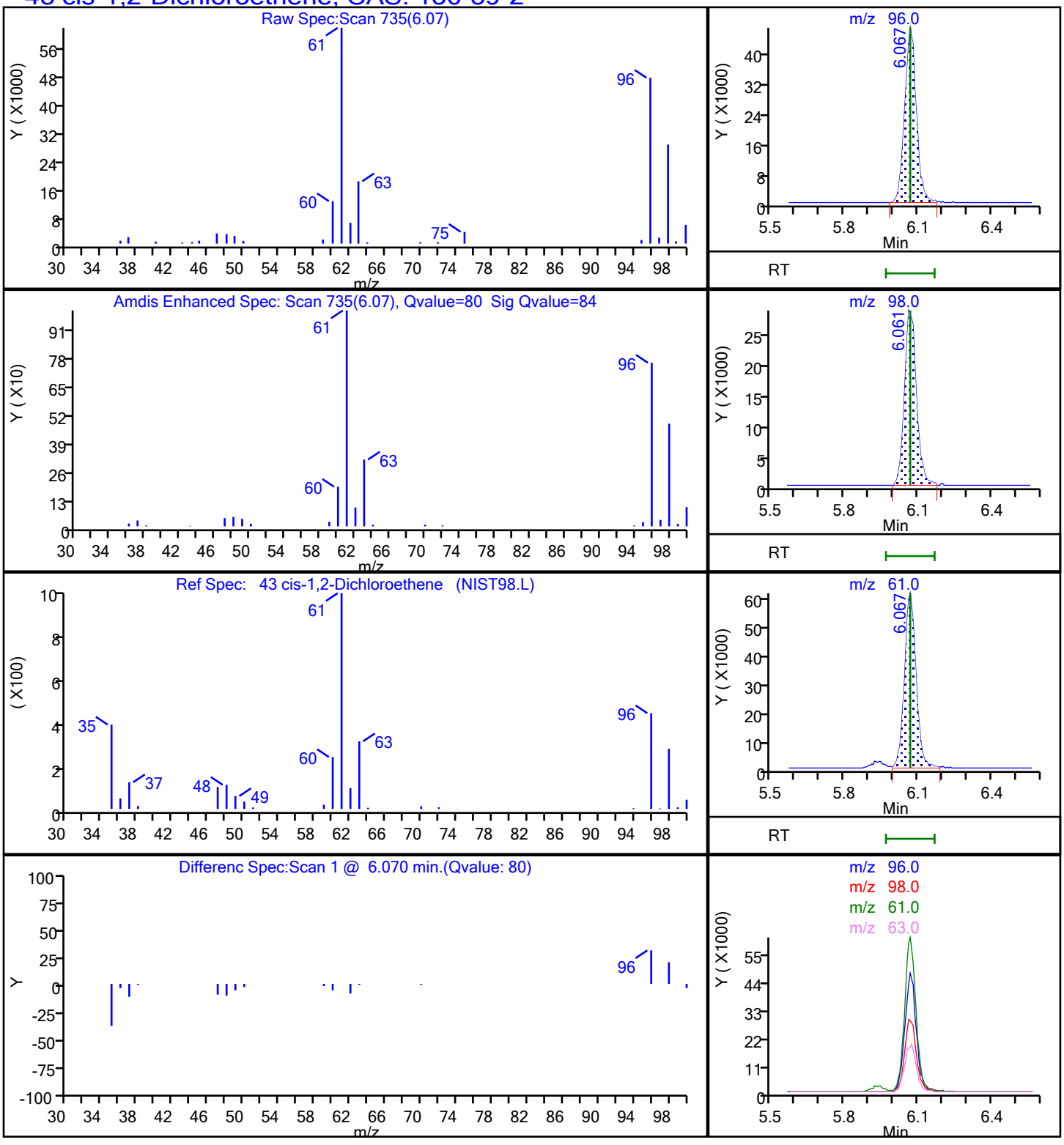
52 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X24.D				
Injection Date:	05-Oct-2022 17:13:30	Instrument ID:	19094		
Lims ID:	410-99372-A-13	Lab Sample ID:	410-99372-13		
Client ID:	HD-COD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

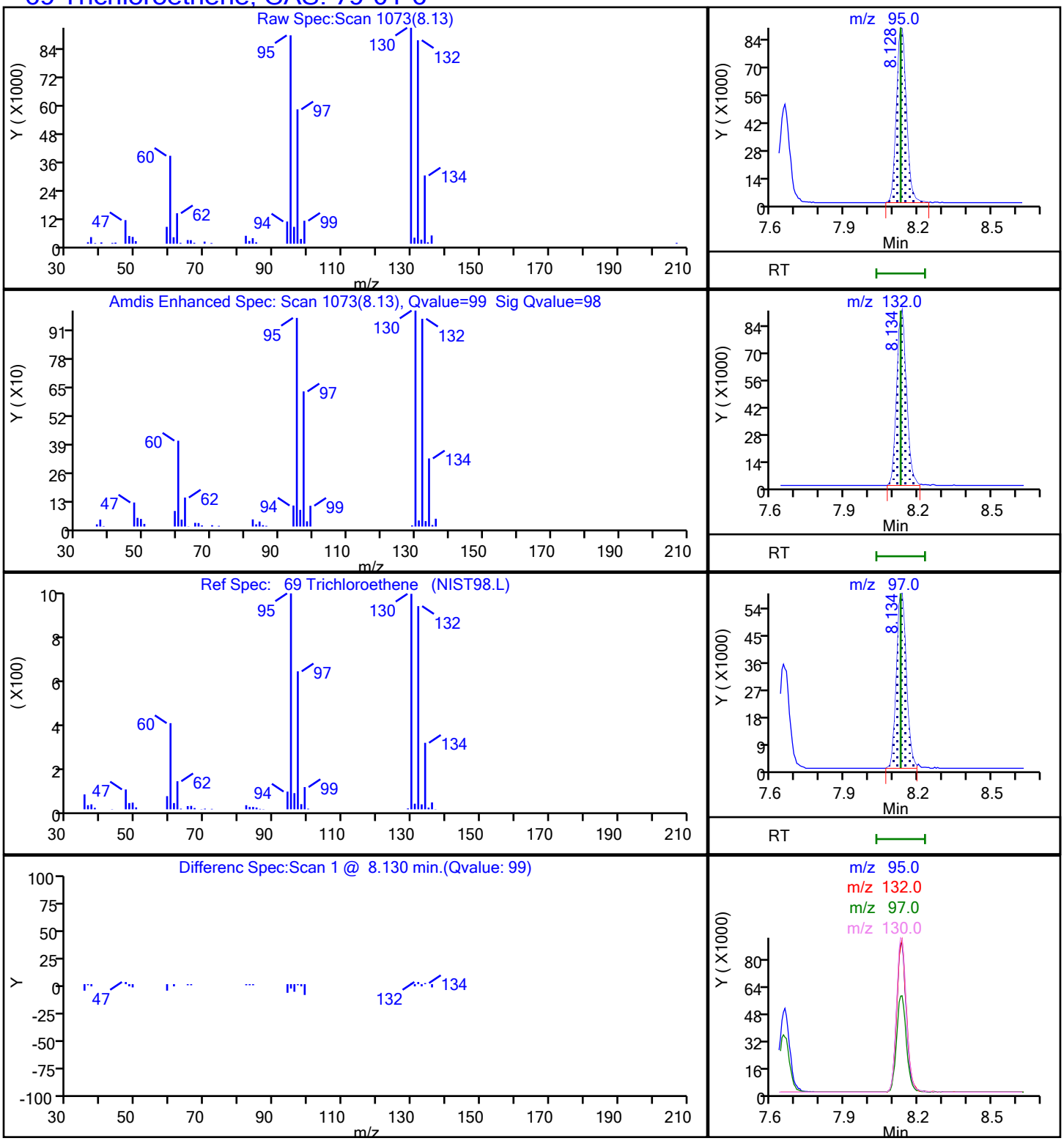
43 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X24.D				
Injection Date:	05-Oct-2022 17:13:30	Instrument ID:	19094		
Lims ID:	410-99372-A-13	Lab Sample ID:	410-99372-13		
Client ID:	HD-COD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

69 Trichloroethene, CAS: 79-01-6



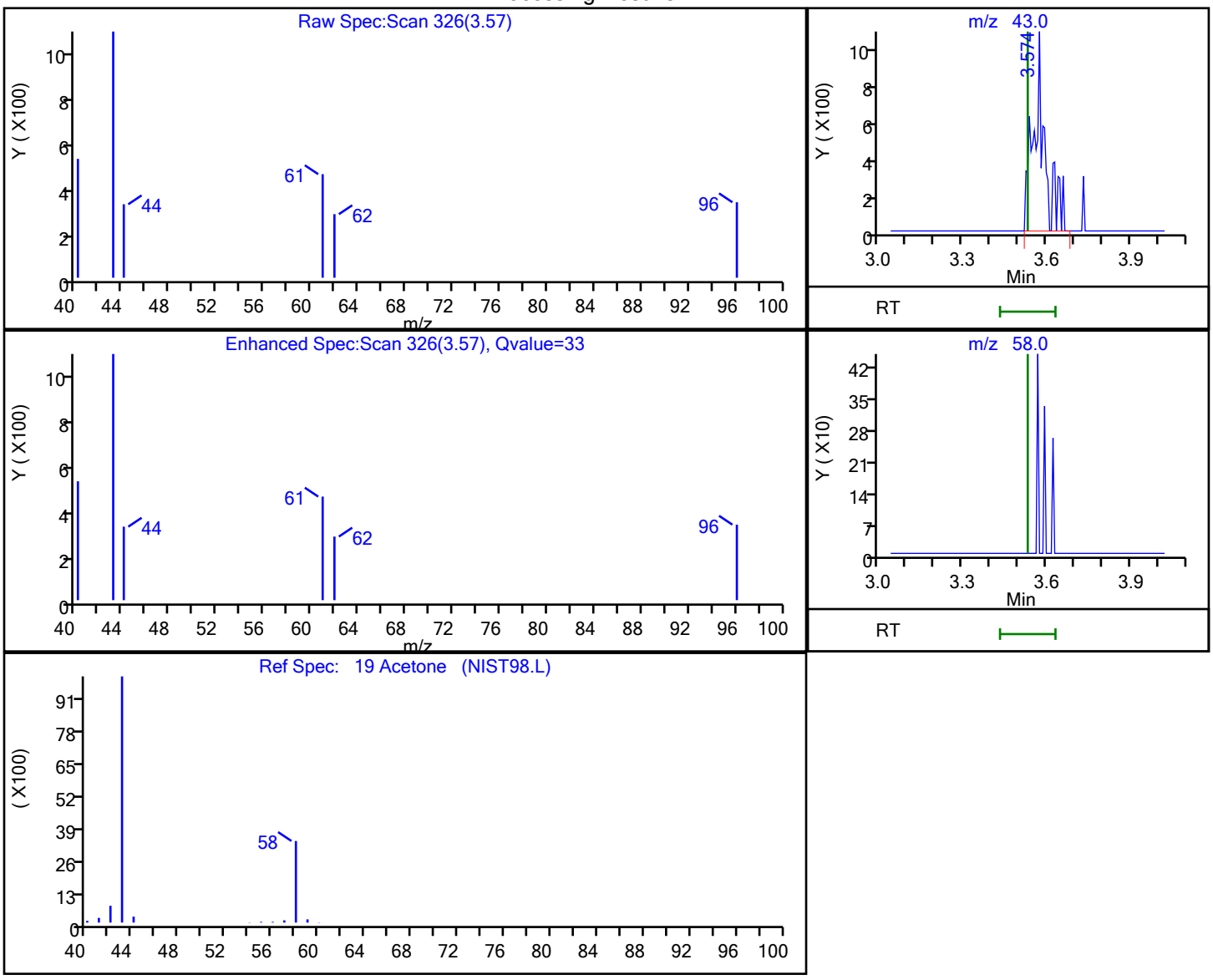
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X24.D				
Injection Date:	05-Oct-2022 17:13:30	Instrument ID:	19094		
Lims ID:	410-99372-A-13	Lab Sample ID:	410-99372-13		
Client ID:	HD-COD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

19 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.57	43.00	3118	0.493908
3.53	58.00	0	

Reviewer: pongsawatp, 06-Oct-2022 14:14:10

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

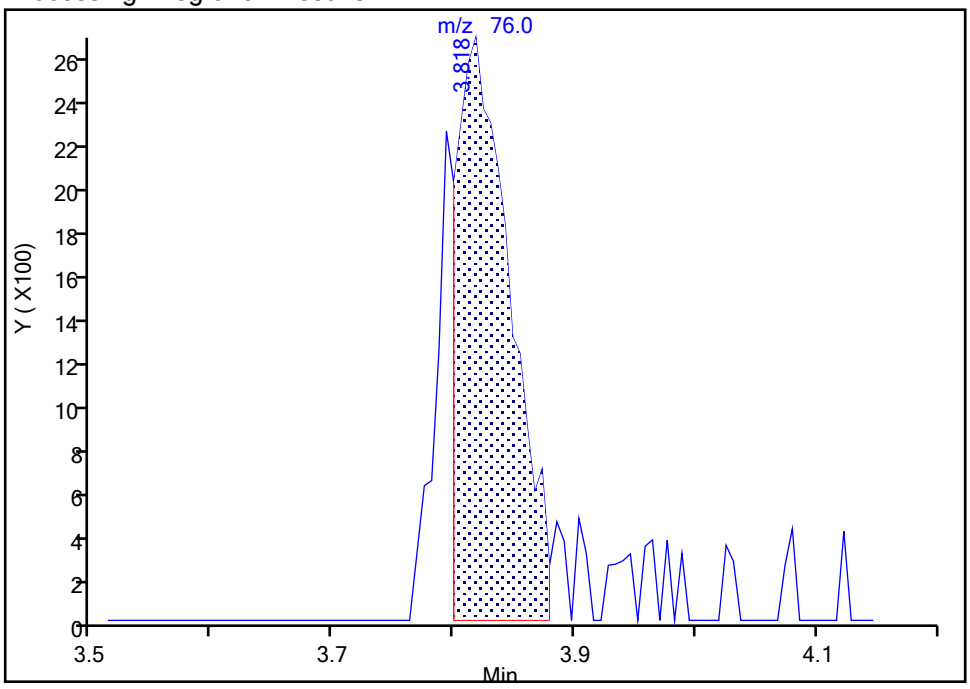
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X24.D				
Injection Date:	05-Oct-2022 17:13:30	Instrument ID:	19094		
Lims ID:	410-99372-A-13	Lab Sample ID:	410-99372-13		
Client ID:	HD-COD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

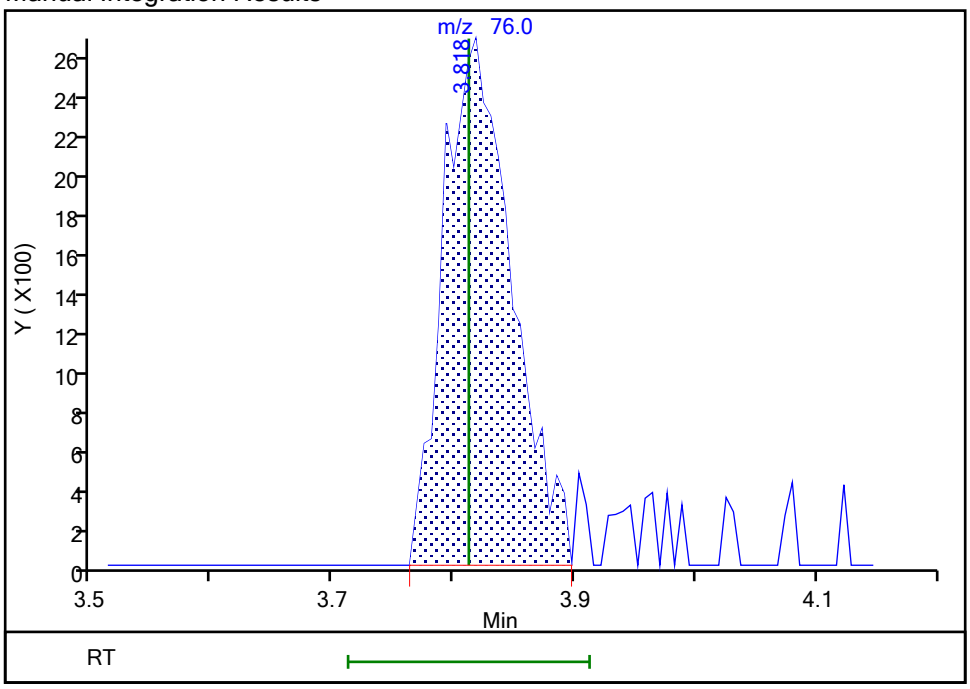
Processing Integration Results

RT: 3.82
Area: 8370
Amount: 0.073699
Amount Units: ug/l



Manual Integration Results

RT: 3.82
Area: 10511
Amount: 0.092551
Amount Units: ug/l



Reviewer: pongsawatp, 06-Oct-2022 14:14:22

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.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-QC1-0/1-1 DL Lab Sample ID: 410-99372-13 DL

Matrix: Water Lab File ID: HO05X25.D

Analysis Method: 8260D Date Collected: 09/23/2022 08:00

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 17:34

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.: 303234 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	65		5.0	2.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		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\19094\20221005-67970.b\HO05X25.D
Lims ID: 410-99372-B-13 DL
Client ID: HD-COD-QC1-0/1-1
Sample Type: Client
Inject. Date: 05-Oct-2022 17:34:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0067970-026
Operator ID: knk41612 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2022 14:16:19 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:16:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.123				ND	
7 Vinyl chloride	62		2.239				ND	
9 Bromomethane	94		2.575				ND	
10 Chloroethane	64		2.654				ND	
18 1,1-Dichloroethene	96	3.513	3.513	0.000	90	1481	0.0348	
19 Acetone	43		3.532				ND	
24 Carbon disulfide	76	3.818	3.812	0.006	99	9983	0.0877	M
* 29 t-Butyl alcohol-d10 (IS)	65	4.178	4.166	0.012	22	80155	50.0	
28 Methylene Chloride	84		4.166				ND	
33 Methyl tert-butyl ether	73		4.568				ND	
34 trans-1,2-Dichloroethene	96		4.592				ND	
37 1,1-Dichloroethane	63	5.239	5.245	-0.006	93	9461	0.1071	
42 2-Butanone (MEK)	43		6.019				ND	
43 cis-1,2-Dichloroethene	96	6.074	6.068	0.006	79	13737	0.2647	
49 Chlorobromomethane	128		6.397				ND	
52 Chloroform	83		6.549				ND	7
$ 53 Dibromofluoromethane (Surr)	113	6.763	6.757	0.006	94	408444	9.87	
54 1,1,1-Trichloroethane	97	6.775	6.781	-0.006	97	36930	0.4763	
57 Carbon tetrachloride	117		6.988				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.214	7.214	0.000	52	76722	10.2	
60 Benzene	78		7.244				ND	
62 1,2-Dichloroethane	62		7.311				ND	7
* 65 Fluorobenzene (IS)	96	7.647	7.653	-0.006	99	1635210	10.0	
69 Trichloroethene	95	8.134	8.128	0.006	95	21707	0.4033	
71 1,2-Dichloropropane	63		8.458				ND	
77 Dichlorobromomethane	83		8.799				ND	
81 cis-1,3-Dichloropropene	75		9.348				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.512				ND	
$ 84 Toluene-d8 (Surr)	98	9.659	9.658	0.001	93	1699213	10.3	
85 Toluene	92		9.732				ND	
86 trans-1,3-Dichloropropene	75		9.988				ND	
106 1,1,2-Trichloroethane	97		10.195				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166	10.286	10.286	0.000	98	365505	6.46	
109 2-Hexanone	43		10.402				ND	
111 Chlorodibromomethane	129		10.573				ND	
112 Ethylene Dibromide	107		10.683				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.116	11.109	0.007	86	1348613	10.0	
115 Chlorobenzene	112		11.140				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.219				ND	
118 Ethylbenzene	91		11.225				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.341				ND	7
120 o-Xylene	106		11.664				ND	
121 Styrene	104		11.682				ND	
122 Bromoform	173		11.841				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	92	642513	9.59	
127 1,1,2,2-Tetrachloroethane	83		12.207				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	95	731935	10.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
U - Marked Undetected

Reagents:

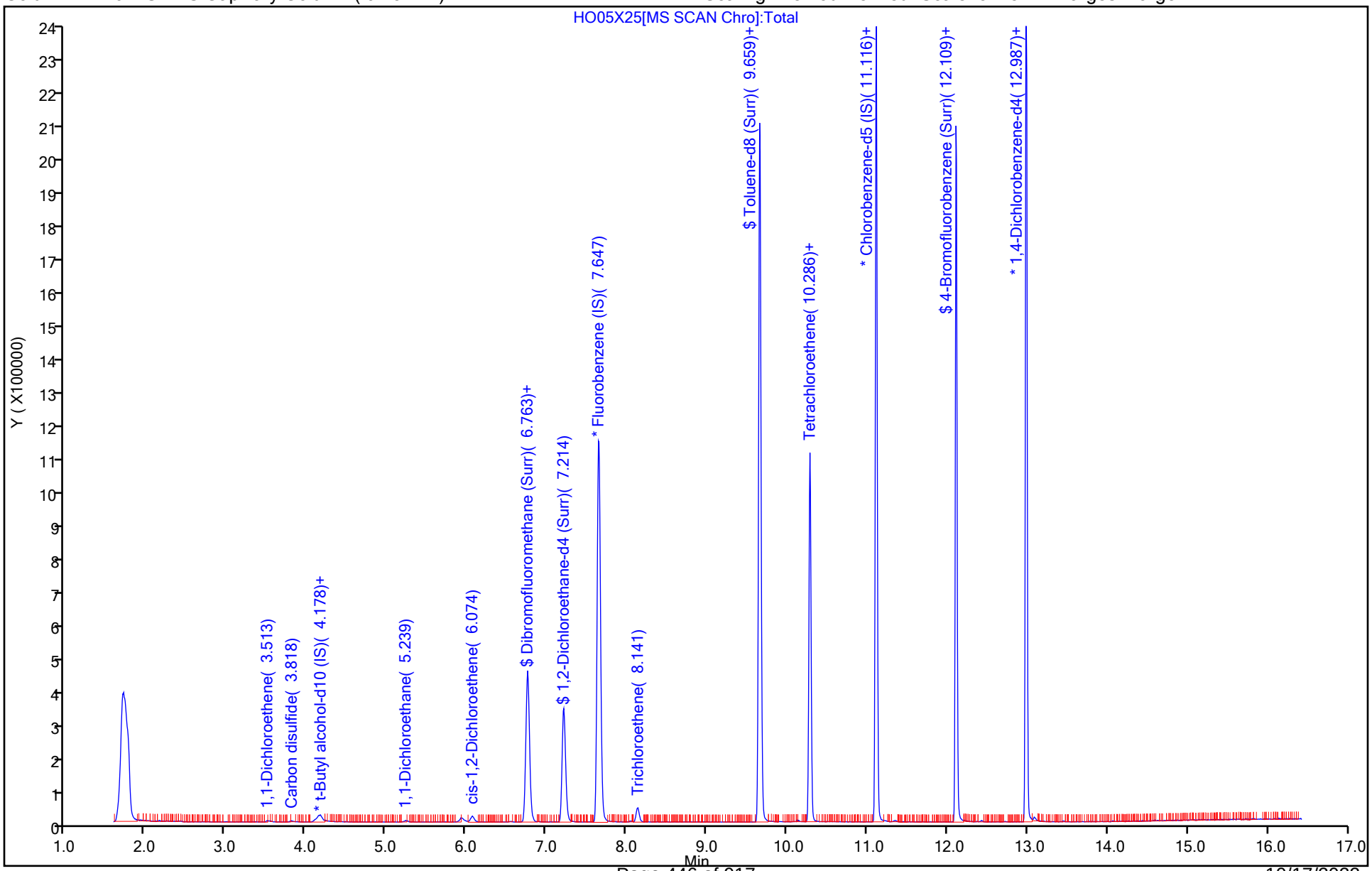
MSV_HP25_ISSS_00057 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 06-Oct-2022 14:16:21 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X25.D				
Injection Date:	05-Oct-2022 17:34:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	410-99372-B-13 DL	Lab Sample ID:	410-99372-13	Worklist Smp#:	26
Client ID:	HD-COD-QC1-0/1-1				
Purge Vol:	25.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	25
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X25.D				
Lims ID:	410-99372-B-13 DL				
Client ID:	HD-COD-QC1-0/1-1				
Sample Type:	Client				
Inject. Date:	05-Oct-2022 17:34:30	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	25.000 mL	Dil. Factor:	10.0000		
Sample Info:	410-0067970-026				
Operator ID:	knk41612	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Oct-2022 14:16:19	Calib Date:	11-Jul-2022 18:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1671				

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:16:19

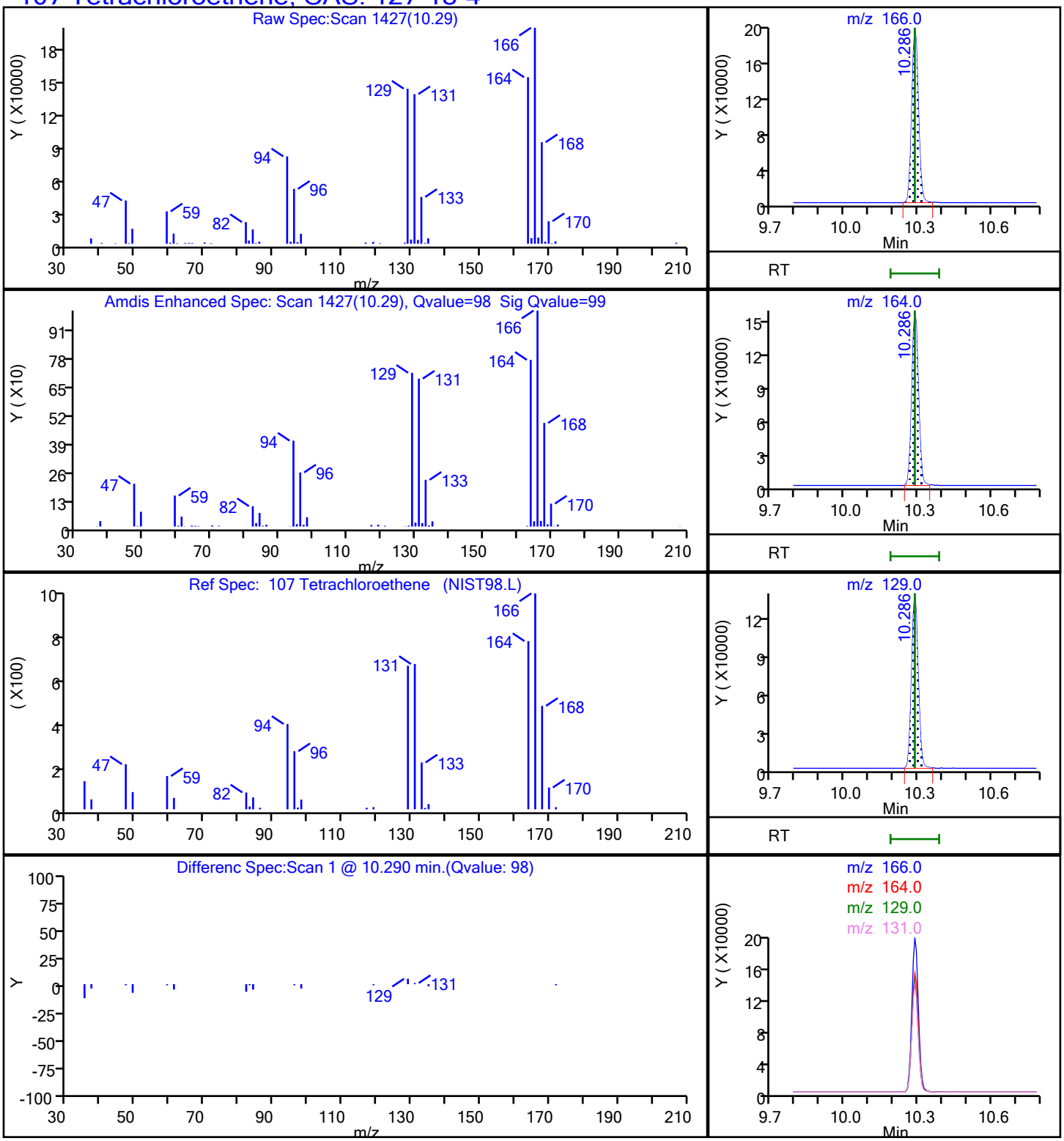
Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	9.87	98.69
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	101.59
$ 84 Toluene-d8 (Surr)	10.0	10.3	102.99
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.59	95.93

Report Date: 06-Oct-2022 14:16:21 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X25.D				
Injection Date:	05-Oct-2022 17:34:30	Instrument ID:	19094		
Lims ID:	410-99372-B-13 DL	Lab Sample ID:	410-99372-13		
Client ID:	HD-COD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	25.000 mL	Dil. Factor:	10.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

107 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-QC1-0/1-2 Lab Sample ID: 410-99372-14

Matrix: Water Lab File ID: HO05X06.D

Analysis Method: 8260D Date Collected: 09/23/2022 00:00

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 11:07

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.: 303234 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	0.11	J cn	1.0	0.10
56-23-5	Carbon tetrachloride	ND		0.50	0.10
108-90-7	Chlorobenzene	ND		0.50	0.070
75-00-3	Chloroethane	ND		0.50	0.10
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.10
124-48-1	Dibromochloromethane	ND		0.50	0.080
100-41-4	Ethylbenzene	ND		0.50	0.080
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.080
75-09-2	Methylene Chloride	ND		0.50	0.10
100-42-5	Styrene	ND		0.50	0.070
127-18-4	Tetrachloroethene	ND		0.50	0.20
108-88-3	Toluene	ND		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-QC1-0/1-2 Lab Sample ID: 410-99372-14

Matrix: Water Lab File ID: HO05X06.D

Analysis Method: 8260D Date Collected: 09/23/2022 00:00

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 11:07

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.: 303234 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)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X06.D
Lims ID: 410-99372-A-14
Client ID: HD-COD-QC1-0/1-2
Sample Type: Client
Inject. Date: 05-Oct-2022 11:07:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0067970-007
Operator ID: knk41612 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2022 14:00:15 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:00:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.123				ND	
7 Vinyl chloride	62		2.239				ND	
9 Bromomethane	94		2.575				ND	
10 Chloroethane	64		2.654				ND	
18 1,1-Dichloroethene	96		3.513				ND	
19 Acetone	43		3.532				ND	
24 Carbon disulfide	76	3.818	3.812	0.006	99	13219	0.1086	M
* 29 t-Butyl alcohol-d10 (IS)	65	4.178	4.166	0.012	22	115166	50.0	
28 Methylene Chloride	84		4.166				ND	
33 Methyl tert-butyl ether	73		4.568				ND	
34 trans-1,2-Dichloroethene	96		4.592				ND	
37 1,1-Dichloroethane	63		5.245				ND	
42 2-Butanone (MEK)	43		6.019				ND	
43 cis-1,2-Dichloroethene	96		6.068				ND	
49 Chlorobromomethane	128		6.397				ND	
52 Chloroform	83		6.549				ND	
$ 53 Dibromofluoromethane (Surr)	113	6.769	6.757	0.012	93	441107	9.97	
54 1,1,1-Trichloroethane	97		6.781				ND	
57 Carbon tetrachloride	117		6.988				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.214	7.214	0.000	52	87304	10.8	
60 Benzene	78		7.244				ND	
62 1,2-Dichloroethane	62		7.311				ND	7
* 65 Fluorobenzene (IS)	96	7.653	7.653	0.000	99	1748752	10.0	
69 Trichloroethene	95		8.128				ND	
71 1,2-Dichloropropane	63		8.458				ND	
77 Dichlorobromomethane	83		8.799				ND	
81 cis-1,3-Dichloropropene	75		9.348				ND	
83 4-Methyl-2-pentanone (MIBK)	43		9.512				ND	
$ 84 Toluene-d8 (Surr)	98	9.658	9.658	0.000	93	1823324	10.4	
85 Toluene	92		9.732				ND	7
86 trans-1,3-Dichloropropene	75		9.988				ND	
106 1,1,2-Trichloroethane	97		10.195				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
107 Tetrachloroethene	166		10.286				ND	
109 2-Hexanone	43		10.402				ND	
111 Chlorodibromomethane	129		10.573				ND	
112 Ethylene Dibromide	107		10.683				ND	
* 113 Chlorobenzene-d5 (IS)	117	11.115	11.109	0.006	86	1436594	10.0	
115 Chlorobenzene	112		11.140				ND	7
116 1,1,1,2-Tetrachloroethane	131		11.219				ND	
118 Ethylbenzene	91		11.225				ND	
S 117 Xylenes, Total	106		11.245				ND	7
119 m-Xylene & p-Xylene	106		11.341				ND	
120 o-Xylene	106		11.664				ND	
121 Styrene	104		11.682				ND	
122 Bromoform	173		11.841				ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	92	685457	9.61	
127 1,1,2,2-Tetrachloroethane	83		12.207				ND	
* 141 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	95	790626	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

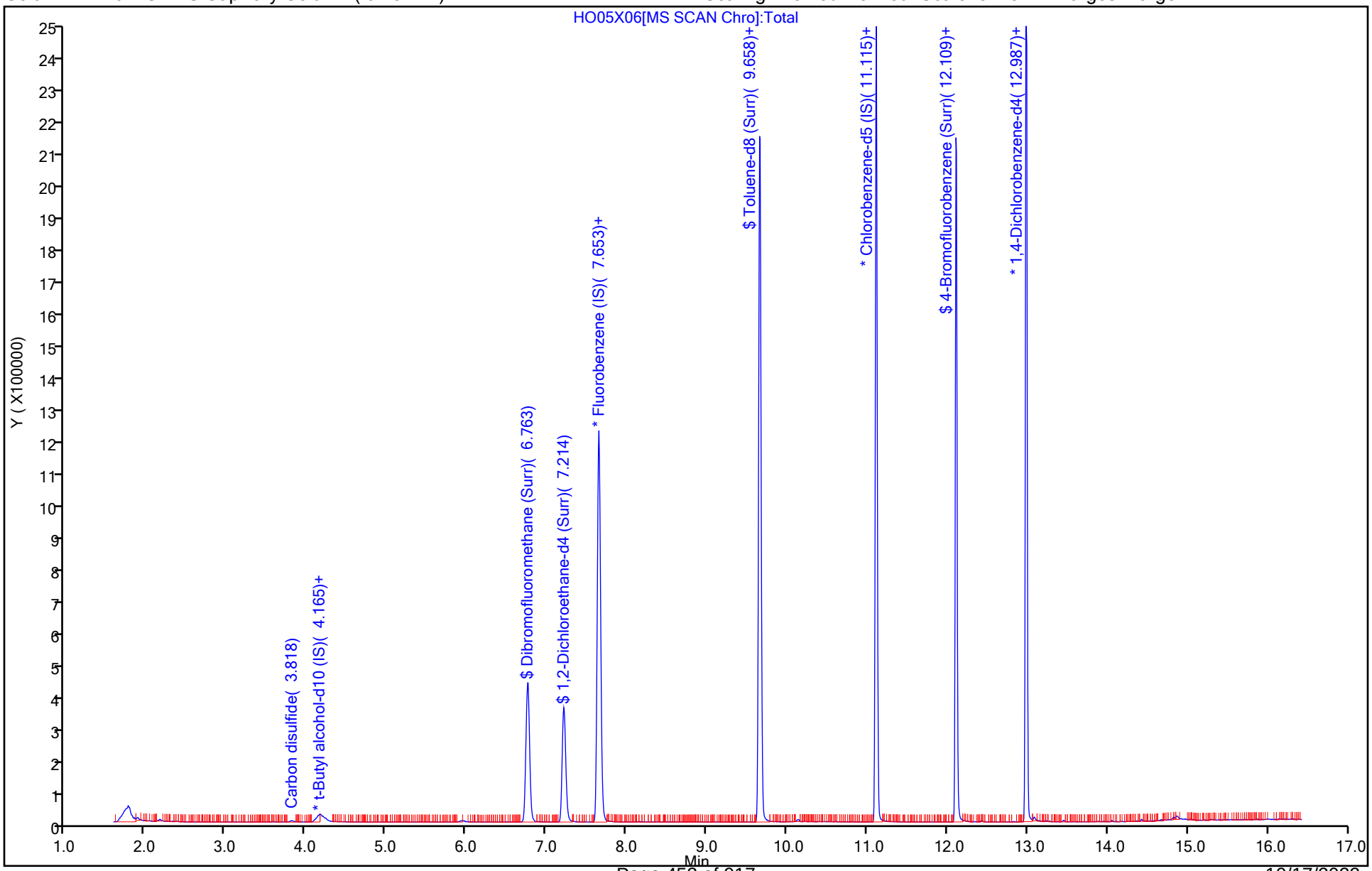
MSV_HP25_ISSS_00057 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 06-Oct-2022 14:00:16 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X06.D				
Injection Date:	05-Oct-2022 11:07:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	410-99372-A-14	Lab Sample ID:	410-99372-14	Worklist Smp#:	7
Client ID:	HD-COD-QC1-0/1-2				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X06.D				
Lims ID:	410-99372-A-14				
Client ID:	HD-COD-QC1-0/1-2				
Sample Type:	Client				
Inject. Date:	05-Oct-2022 11:07:30	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0067970-007				
Operator ID:	knk41612	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Oct-2022 14:00:15	Calib Date:	11-Jul-2022 18:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1671				

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:00:15

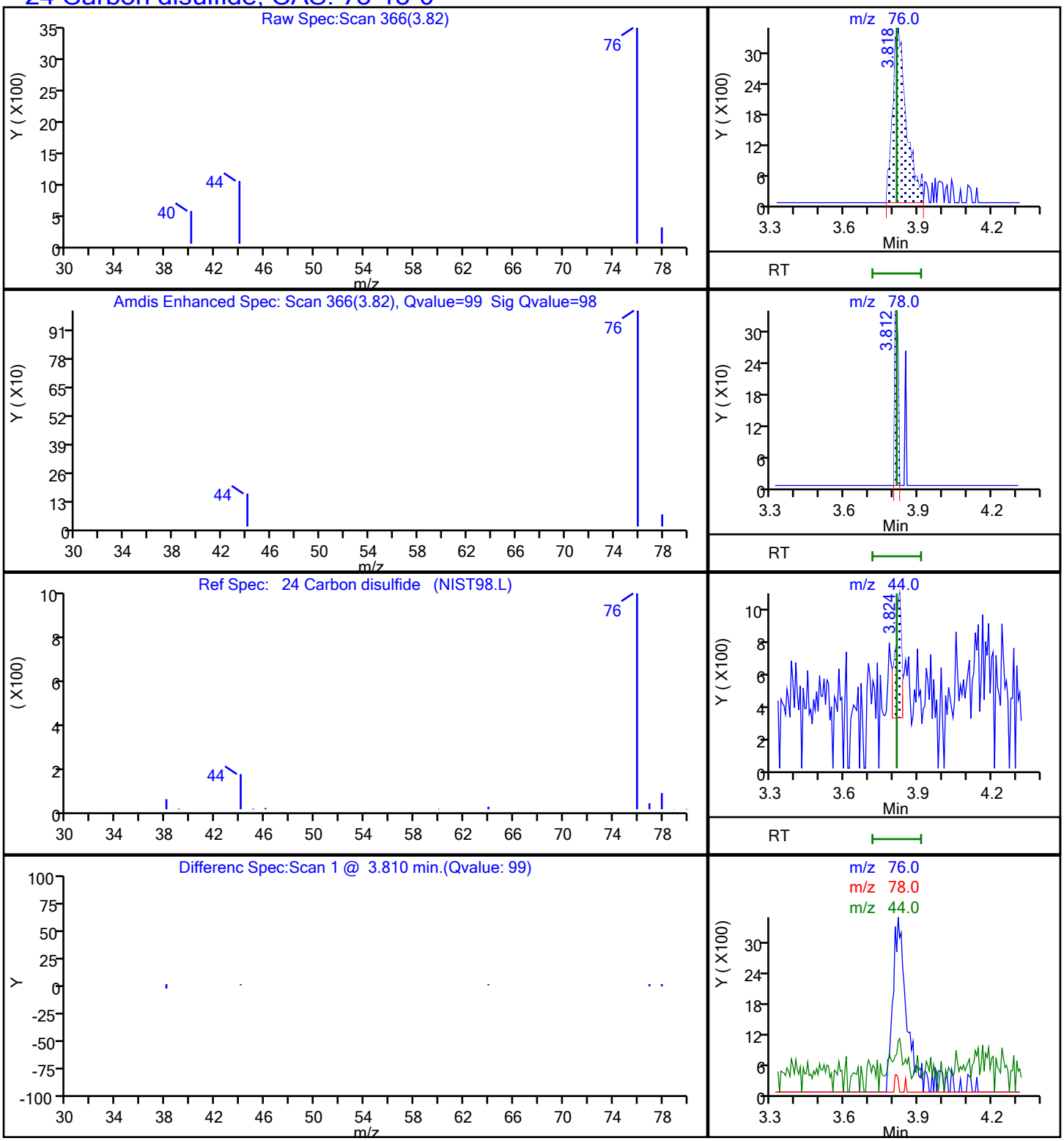
Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	9.97	99.66
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.8	108.09
$ 84 Toluene-d8 (Surr)	10.0	10.4	103.75
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.61	96.07

Report Date: 06-Oct-2022 14:00:16 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X06.D				
Injection Date:	05-Oct-2022 11:07:30	Instrument ID:	19094		
Lims ID:	410-99372-A-14	Lab Sample ID:	410-99372-14		
Client ID:	HD-COD-QC1-0/1-2				
Operator ID:	knk41612	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

24 Carbon disulfide, CAS: 75-15-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

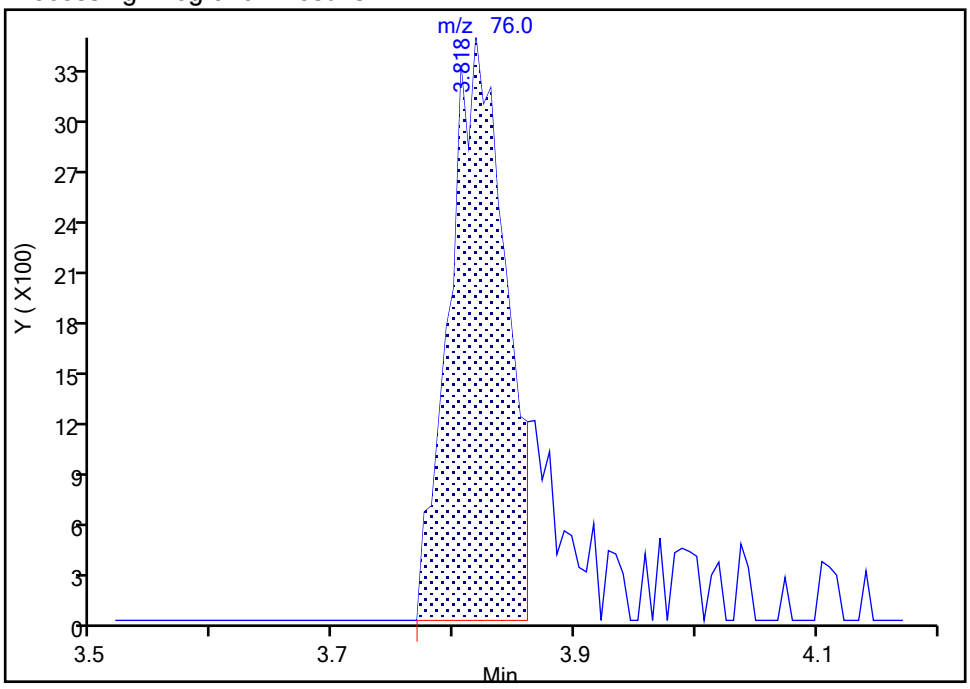
Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X06.D				
Injection Date:	05-Oct-2022 11:07:30	Instrument ID:	19094		
Lims ID:	410-99372-A-14	Lab Sample ID:	410-99372-14		
Client ID:	HD-COD-QC1-0/1-2				
Operator ID:	knk41612	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

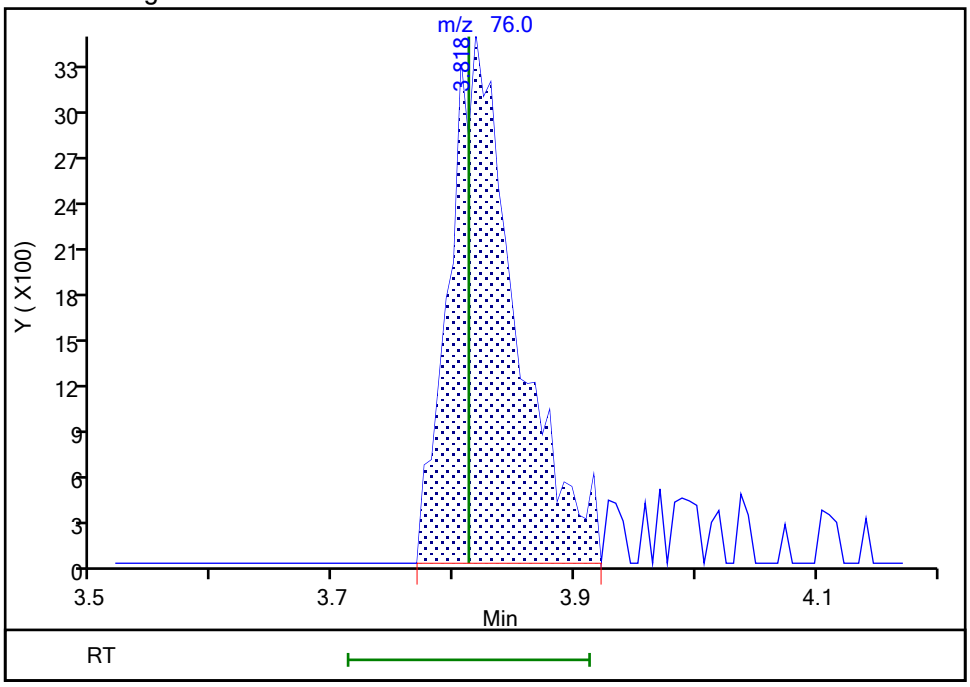
Processing Integration Results

RT: 3.82
Area: 11168
Amount: 0.091734
Amount Units: ug/l



Manual Integration Results

RT: 3.82
Area: 13219
Amount: 0.108580
Amount Units: ug/l



Reviewer: pongsawatp, 06-Oct-2022 14:00:03

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-288300/13	CG22X12.D
Level 2	IC 410-288300/14	CG22X13.D
Level 3	IC 410-288300/15	CG22X14.D
Level 4	IC 410-288300/16	CG22X15.D
Level 5	IC 410-288300/17	CG22X16.D
Level 6	ICIS 410-288300/18	CG22X17.D
Level 7	IC 410-288300/19	CG22X18.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	0.2752 0.2773	0.2748 0.2802	0.2940	0.2972	0.2988	Ave		0.2854			0.1000	3.8		20.0			
Chloromethane	0.3855 0.3532	0.4080 0.3535	0.3876	0.3801	0.3721	Ave		0.3771			0.1000	5.2		20.0			
Vinyl chloride	0.3490 0.3360	0.3541 0.3406	0.3416	0.3625	0.3655	Ave		0.3499			0.1000	3.2		20.0			
1,3-Butadiene	0.4023 0.3559	0.3593 0.3566	0.3730	0.3856	0.3861	Ave		0.3741				4.8		20.0			
Bromomethane	0.2352 0.2251	0.2368 0.2278	0.2307	0.2367	0.2372	Ave		0.2328			0.1000	2.1		20.0			
Chloroethane	0.2084 0.1920	0.2122 0.1914	0.2097	0.2054	0.2049	Ave		0.2034			0.1000	4.1		20.0			
Dichlorofluoromethane	0.4670 0.4442	0.5114 0.4487	0.4692	0.4750	0.4730	Ave		0.4698			0.1000	4.7		20.0			
Trichlorofluoromethane	0.3757 0.3865	0.3873 0.3973	0.3987	0.4168	0.4162	Ave		0.3969			0.1000	3.9		20.0			
Ethyl ether	0.1977 0.2030	0.2014 0.2027	0.1993	0.2147	0.2059	Ave		0.2035				2.7		20.0			
Freon 123a	0.3350 0.2906	0.3199 0.2979	0.3037	0.3099	0.3071	Ave		0.3092				4.7		20.0			
Acrolein	2.1221 2.2195	2.4146 2.2615	2.4911	2.4841	2.0524	Ave		2.2922				7.6		20.0			
1,1-Dichloroethene	0.2210 0.2113	0.2380 0.2138	0.2157	0.2195	0.2206	Ave		0.2200			0.1000	4.0		20.0			
Acetone	2.9885 2.2622	3.1775 2.2235	2.6155	2.6101	2.1536	Ave		2.5758			0.1000	15.3		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.: 410-99372-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

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	0.1916 0.1968	0.2121 0.2069	0.2090	0.2133	0.2205	Ave		0.2072			0.1000	4.8		20.0			
Methyl iodide	0.3774 0.3999	0.4274 0.4027	0.3985	0.4149	0.4133	Ave		0.4049				3.9		20.0			
Carbon disulfide	0.6129 0.6820	0.7060 0.6962	0.6697	0.6911	0.7050	Ave		0.6804			0.1000	4.8		20.0			
Methyl acetate	7.9880 7.1756	7.6361 7.5985	7.2101	9.0682	6.4689	Ave		7.5922			0.1000	10.6		20.0			
Allyl chloride	0.3904 0.3978	0.4276 0.4021	0.3978	0.4112	0.4126	Ave		0.4056				3.1		20.0			
Methylene Chloride	0.2544 0.2549	0.2786 0.2540	0.2582	0.2641	0.2616	Ave		0.2608			0.1000	3.3		20.0			
t-Butyl alcohol	0.9523 0.9491	1.2870 0.9653	1.2271	1.0620	0.8519	Ave		1.0421				15.3		20.0			
Acrylonitrile	3.5906 3.6644	4.0883 3.7096	4.3571	4.1274	3.6077	Ave		3.8779				7.9		20.0			
Methyl tertiary butyl ether	0.6303 0.6625	0.7000 0.6606	0.6539	0.6888	0.6804	Ave		0.6681			0.1000	3.5		20.0			
trans-1,2-Dichloroethene	0.2591 0.2625	0.2911 0.2645	0.2688	0.2772	0.2736	Ave		0.2710			0.1000	4.0		20.0			
n-Hexane	0.3507 0.3509	0.3865 0.3628	0.3548	0.3567	0.3823	Ave		0.3635				4.1		20.0			
1,1-Dichloroethane	0.4631 0.4903	0.5245 0.4926	0.4979	0.5136	0.5102	Ave		0.4989			0.2000	4.0		20.0			
di-Isopropyl ether	0.8681 0.9014	0.9679 0.9076	0.9061	0.9369	0.9321	Ave		0.9172				3.5		20.0			
2-Chloro-1,3-butadiene	0.3663 0.3876	0.4052 0.3969	0.3856	0.3913	0.3950	Ave		0.3897				3.1		20.0			
Ethyl t-butyl ether	0.7982 0.8443	0.8720 0.8425	0.8412	0.8648	0.8667	Ave		0.8471				3.0		20.0			
2-Butanone	4.9464 5.0610	5.2654 5.1543	5.6740	5.6960	4.9868	Ave		5.2548			0.1000	5.9		20.0			
cis-1,2-Dichloroethene	0.2696 0.2929	0.3197 0.2928	0.2977	0.3006	0.3051	Ave		0.2969			0.1000	5.1		20.0			
2,2-Dichloropropane	0.3775 0.3845	0.4037 0.3891	0.3862	0.4154	0.4015	Ave		0.3940				3.4		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.: 410-99372-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

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	1.1450 1.3123	1.3681 1.2486	1.3794	1.3619	1.3394	Ave		1.3078				6.5		20.0			
Methacrylonitrile	4.6167 5.4468	5.4630 5.7588	6.0657	6.0771	5.4391	Ave		5.5525				9.0		20.0			
Bromochloromethane	0.1172 0.1301	0.1407 0.1321	0.1312	0.1345	0.1348	Ave		0.1315				5.5		20.0			
Tetrahydrofuran	1.4977 1.4056	1.4663 1.4698	1.6355	1.5486	1.4014	Ave		1.4893				5.5		20.0			
Chloroform	0.4552 0.4597	0.4893 0.4634	0.4731	0.4761	0.4738	Ave		0.4701			0.2000	2.5		20.0			
1,1,1-Trichloroethane	0.3727 0.4030	0.4286 0.4101	0.4182	0.4216	0.4219	Ave		0.4109			0.1000	4.6		20.0			
Cyclohexane	0.4187 0.4533	0.4784 0.4762	0.4574	0.4665	0.4857	Ave		0.4623			0.1000	4.9		20.0			
Carbon tetrachloride	0.3080 0.3456	0.3477 0.3604	0.3394	0.3538	0.3601	Ave		0.3450			0.1000	5.2		20.0			
1,1-Dichloropropene	0.3706 0.3766	0.4060 0.3867	0.3735	0.3848	0.3903	Ave		0.3841				3.1		20.0			
Isobutyl alcohol	0.3996 0.3545	0.3931 0.3438	0.3863	0.3671	0.3448	Ave		0.3699				6.3		20.0			
Benzene	1.1203 1.1231	1.2015 1.1354	1.1375	1.1646	1.1732	Ave		1.1508			0.5000	2.6		20.0			
1,2-Dichloroethane	0.3038 0.2783	0.3143 0.2777	0.2928	0.2976	0.2764	Ave		0.2916			0.1000	5.1		20.0			
t-Amyl methyl ether	0.7010 0.7657	0.7912 0.7629	0.7629	0.7863	0.7779	Ave		0.7640				3.9		20.0			
n-Heptane	0.4143 0.4053	0.4265 0.4061	0.4011	0.4141	0.4253	Ave		0.4132				2.4		20.0			
n-Butanol	0.2216 0.3233	0.2946 0.3099	0.3123	0.2933	0.3213	Ave		0.2966				11.8		20.0			
Trichloroethene	0.2727 0.2916	0.3101 0.2957	0.2864	0.3062	0.3026	Ave		0.2950			0.2000	4.4		20.0			
Methylcyclohexane	0.4466 0.4837	0.4994 0.5039	0.4809	0.4961	0.5239	Ave		0.4906			0.1000	4.9		20.0			
1,2-Dichloropropane	0.2859 0.3011	0.3225 0.3010	0.3045	0.3147	0.3108	Ave		0.3058			0.1000	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.: 410-99372-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

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	7.2082 10.408	9.7657 11.513	11.022	10.900	10.051	Ave		10.124				14.0		20.0			
1,4-Dioxane	0.0214 0.0711	0.0811 0.0613	0.0689	0.0737	0.0744	Qua	-0.315	0.0787	-0.000014		0.0050				1.0000		0.9900
Dibromomethane	0.1328 0.1340	0.1415 0.1347	0.1328	0.1404	0.1387	Ave		0.1364				2.7		20.0			
Bromodichloromethane	0.3011 0.3385	0.3424 0.3436	0.3330	0.3472	0.3452	Ave		0.3358			0.2000	4.8		20.0			
2-Nitropropane	3.1099 2.8091	2.7882 3.0020	2.8097	2.9413	2.7159	Ave		2.8823				4.8		20.0			
cis-1,3-Dichloropropene	0.3819 0.4595	0.4469 0.4596	0.4226	0.4468	0.4643	Ave		0.4402			0.2000	6.6		20.0			
4-Methyl-2-pentanone	12.118 14.041	13.968 14.880	15.142	15.328	14.040	Ave		14.217			0.1000	7.6		20.0			
Toluene	0.9195 0.9535	1.0057 0.9763	0.9723	0.9903	0.9886	Ave		0.9723			0.4000	2.9		20.0			
trans-1,3-Dichloropropene	0.3901 0.4922	0.4556 0.5051	0.4579	0.4806	0.4931	Ave		0.4678			0.1000	8.3		20.0			
Ethyl methacrylate	0.3232 0.4004	0.3809 0.4029	0.3578	0.3843	0.3978	Ave		0.3782				7.6		20.0			
1,1,2-Trichloroethane	0.2565 0.2656	0.2782 0.2645	0.2690	0.2787	0.2726	Ave		0.2693			0.1000	2.9		20.0			
Tetrachloroethene	0.4264 0.4479	0.4612 0.4555	0.4481	0.4651	0.4668	Ave		0.4530			0.2000	3.1		20.0			
1,3-Dichloropropane	0.4333 0.4632	0.4764 0.4582	0.4633	0.4802	0.4806	Ave		0.4650				3.6		20.0			
2-Hexanone	7.8205 10.257	9.3596 11.049	10.917	10.848	10.232	Ave		10.069			0.1000	11.4		20.0			
Dibromochloromethane	0.2795 0.3362	0.3236 0.3403	0.3078	0.3258	0.3386	Ave		0.3217				6.8		20.0			
1,2-Dibromoethane	0.2248 0.2588	0.2609 0.2585	0.2454	0.2638	0.2615	Ave		0.2534			0.1000	5.5		20.0			
1-Chlorohexane	0.5806 0.5324	0.5701 0.5492	0.5373	0.5551	0.5548	Ave		0.5542				3.1		20.0			
Chlorobenzene	1.0979 1.1281	1.1928 1.1373	1.1468	1.1657	1.1590	Ave		1.1468			0.5000	2.6		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
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

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	0.3515 0.3839	0.3829 0.3914	0.3663	0.3916	0.3921	Ave		0.3800				4.1		20.0			
Ethylbenzene	1.7277 1.9027	1.9296 1.9309	1.8711	1.9412	1.9328	Ave		1.8909			0.1000	4.0		20.0			
m&p-Xylene	0.6904 0.7610	0.7628 0.7722	0.7627	0.7763	0.7796	Ave		0.7579			0.1000	4.0		20.0			
o-Xylene	0.6847 0.7547	0.7718 0.7680	0.7485	0.7661	0.7764	Ave		0.7529			0.3000	4.2		20.0			
Styrene	1.1127 1.2670	1.2144 1.2868	1.1927	1.2728	1.2787	Ave		1.2321			0.3000	5.2		20.0			
Bromoform	0.1592 0.2001	0.1837 0.2082	0.1743	0.1903	0.1977	Ave		0.1877			0.1000	8.9		20.0			
Isopropylbenzene	1.7306 1.9259	1.9519 1.9365	1.9162	1.9512	1.9799	Ave		1.9132			0.1000	4.3		20.0			
1,1,2,2-Tetrachloroethane	0.5441 0.5793	0.6318 0.5764	0.5990	0.6109	0.5972	Ave		0.5912			0.3000	4.7		20.0			
Bromobenzene	0.8027 0.8210	0.8742 0.8097	0.8309	0.8516	0.8305	Ave		0.8315				3.0		20.0			
trans-1,4-Dichloro-2-butene	0.1237 0.1461	0.1468 0.1482	0.1404	0.1476	0.1469	Ave		0.1428				6.2		20.0			
1,2,3-Trichloropropane	0.1543 0.1509	0.1625 0.1462	0.1573	0.1565	0.1549	Ave		0.1547				3.3		20.0			
N-Propylbenzene	3.6496 3.9560	4.1634 3.8577	4.0516	4.1202	4.1005	Ave		3.9856				4.6		20.0			
2-Chlorotoluene	0.8037 0.8244	0.8669 0.8112	0.8460	0.8485	0.8448	Ave		0.8351				2.7		20.0			
1,3,5-Trimethylbenzene	2.5659 2.8889	3.0020 2.8829	2.8619	2.9468	2.9411	Ave		2.8700				5.0		20.0			
4-Chlorotoluene	0.7788 0.8466	0.9051 0.8559	0.8563	0.8682	0.8863	Ave		0.8567				4.6		20.0			
tert-Butylbenzene	0.5865 0.6265	0.6350 0.6333	0.6286	0.6374	0.6830	Ave		0.6329				4.4		20.0			
Pentachloroethane	0.4083 0.5022	0.4690 0.5119	0.4631	0.4812	0.5110	Ave		0.4781				7.6		20.0			
1,2,4-Trimethylbenzene	2.6445 2.9974	3.1000 2.9834	3.0053	3.0574	3.0759	Ave		2.9806				5.2		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.: 410-99372-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

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	3.2801 3.6384	3.7995 3.5896	3.7117	3.7431	3.7738	Ave		3.6480				4.9		20.0			
1,3-Dichlorobenzene	1.5906 1.6924	1.7774 1.6851	1.7159	1.7428	1.7277	Ave		1.7046			0.6000	3.5		20.0			
p-Isopropyltoluene	3.0038 3.2564	3.3544 3.2213	3.2351	3.3259	3.3345	Ave		3.2473				3.7		20.0			
1,4-Dichlorobenzene	1.6665 1.7320	1.8314 1.6890	1.7498	1.7659	1.7492	Ave		1.7405			0.5000	3.1		20.0			
1,2,3-Trimethylbenzene	1.2900 1.3358	1.4345 1.3324	1.3606	1.3863	1.3704	Ave		1.3586				3.4		20.0			
Benzyl chloride	0.1979 0.2631	0.2408 0.2667	0.2292	0.2495	0.2631	Ave		0.2443				10.1		20.0			
n-Butylbenzene	1.4751 1.6424	1.6800 1.6423	1.6435	1.6759	1.6924	Ave		1.6359				4.5		20.0			
1,2-Dichlorobenzene	1.4407 1.5679	1.6394 1.5565	1.5796	1.6091	1.5817	Ave		1.5679			0.4000	4.0		20.0			
1,2-Dibromo-3-Chloropropane	0.0734 0.0877	0.0860 0.0891	0.0729	0.0838	0.0912	Ave		0.0835			0.0500	8.9		20.0			
1,3,5-Trichlorobenzene	1.1868 1.3515	1.4213 1.3557	1.3332	1.3697	1.3810	Ave		1.3427				5.5		20.0			
1,2,4-Trichlorobenzene	0.9826 1.1686	1.1648 1.1821	1.1040	1.1460	1.1776	Ave		1.1322			0.2000	6.3		20.0			
Hexachlorobutadiene	0.5405 0.5839	0.6158 0.5823	0.5810	0.5964	0.5926	Ave		0.5847				3.9		20.0			
Naphthalene	1.5150 1.9258	1.7717 1.9498	1.7123	1.8096	1.9227	Ave		1.8010				8.6		20.0			
1,2,3-Trichlorobenzene	0.8010 0.9519	0.9042 0.9615	0.8833	0.9232	0.9603	Ave		0.9122				6.3		20.0			
Dibromofluoromethane (Surr)	0.2332 0.2342	0.2336 0.2353	0.2341	0.2321	0.2332	Ave		0.2337				0.4		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0488 0.0488	0.0487 0.0479	0.0475	0.0475	0.0471	Ave		0.0480				1.5		20.0			
Toluene-d8 (Surr)	1.3105 1.3164	1.3060 1.3350	1.3215	1.3199	1.3145	Ave		1.3177				0.7		20.0			
4-Bromofluorobenzene (Surr)	0.4860 0.4899	0.4836 0.4917	0.4880	0.4865	0.4876	Ave		0.4876				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.: 410-99372-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-288300/13	CG22X12.D
Level 2	IC 410-288300/14	CG22X13.D
Level 3	IC 410-288300/15	CG22X14.D
Level 4	IC 410-288300/16	CG22X15.D
Level 5	IC 410-288300/17	CG22X16.D
Level 6	ICIS 410-288300/18	CG22X17.D
Level 7	IC 410-288300/19	CG22X18.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	10972 551391	27289 1410396	58173	117468	293800	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	15369 702218	40512 1779819	76690	150217	365920	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	13917 668019	35160 1714605	67575	143251	359428	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	16039 707641	35671 1795374	73797	152389	379643	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	9377 447646	23511 1146630	45642	93538	233256	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	8309 381713	21071 963317	41484	81164	201473	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	18620 883302	50779 2258999	92839	187748	465102	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	14979 768569	38458 1999820	78889	164716	409286	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	7885 403748	20000 1020863	39448	84873	202566	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 123a	FB	Ave	13359 577792	31764 1499422	60094	122486	302027	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd 10	Ave	57965 2878823	159412 6770476	281866	584522	1353279	10.00 500	25.0 1250	50.0	100.0	250
1,1-Dichloroethene	FB	Ave	8812 420214	23632 1076196	42670	86755	216909	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBAd 10	Ave	16327	41957	59190	122838	284011	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.: 410-99372-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

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
			586839	1331375				100	250			
Freon 113	FB	Ave	7638 391381	21059 1041622	41348	84297	216833	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl iodide	FB	Ave	15047 795081	42438 2027086	78848	163985	406462	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon disulfide	FB	Ave	24439 1356041	70097 3504627	132499	273138	693267	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd 10	Ave	4364 186144	10083 454980	16317	42677	85311	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	15566 790937	42455 2024085	78695	162533	405717	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	10145 506891	27666 1278708	51086	104369	257199	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd 10	Ave	10405 492429	33987 1155957	55542	99960	224704	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd 10	Ave	4904 237647	13496 555307	24651	48561	118945	0.500 25.0	1.25 62.5	2.50	5.00	12.5
Methyl tertiary butyl ether	FB	Ave	25132 1317373	69506 3325509	129375	272217	669039	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	10331 522027	28906 1331383	53191	109559	269017	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	13985 697755	38374 1826385	70201	140977	375986	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	18464 974846	52080 2479604	98507	203004	501664	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	34613 1792406	96103 4568886	179263	370270	916612	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	14606 770625	40233 1997924	76284	154635	388421	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	31825 1678851	86577 4241387	166424	341793	852261	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone	TBAd 10	Ave	27023	69526	128408	268068	657655	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.: 410-99372-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

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
			1312882	3086272				100	250			
cis-1,2-Dichloroethene	FB	Ave	10751 582324	31743 1473992	58902	118805	300063	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	15053 764497	40087 1959021	76415	164164	394862	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Propionitrile	TBAd 10	Ave	12511 680863	36131 1495301	62435	128191	353271	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd 10	Ave	25222 1412977	72136 3448269	137272	286005	717302	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	4671 258754	13968 664992	25966	53176	132568	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd 10	Ave	4091 182320	9681 440047	18506	36440	92407	1.00 50.0	2.50 125	5.00	10.0	25.0
Chloroform	FB	Ave	18150 914023	48580 2332920	93605	188148	465915	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	14862 801358	42559 2064391	82747	166622	414918	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	16693 901372	47497 2397181	90500	184387	477600	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	12280 687136	34521 1814532	67141	139848	354085	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	14777 748768	40312 1946573	73903	152069	383816	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	TBAd 10	Ave	10915 459860	25955 1029246	43717	86391	227353	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	44669 2233141	119293 5715737	225053	460268	1153651	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	12113 553463	31210 1397962	57929	117609	271805	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	27951 1522599	78561 3840751	150940	310776	764987	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	16517	42342	79351	163653	418190	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.: 410-99372-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

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
			805860	2044456				10.0	25.0			
n-Butanol	TBAd 10	Ave	10591 733904	34033 1623603	61837	120790	370766	17.5 875	43.8 2188	87.5	175	438
Trichloroethene	FB	Ave	10874 579842	30791 1488472	56668	121006	297519	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	17806 961769	49585 2536741	95136	196076	515209	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	11398 598697	32023 1515441	60237	124387	305654	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl methacrylate	TBAd 10	Ave	3938 269988	12895 689382	24944	51296	132554	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBAd 10	Qua	585 92194	5353 183524	7798	17348	49073	10.0 500	25.0 1250	50.0	100	250
Dibromomethane	FB	Ave	5293 266367	14045 678275	26280	55503	136357	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromodichloromethane	FB	Ave	12007 673095	33992 1729627	65882	137205	339449	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBAd 10	Ave	8495 364359	18408 898761	31793	69212	179082	1.00 50.0	2.50 125	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	15229 913681	44371 2313525	83617	176574	456604	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone	TBAd 10	Ave	66201 3642524	184444 8909564	342665	721350	1851510	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd 5	Ave	28361 1452698	77261 3764778	146835	299255	752839	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd 5	Ave	12033 749823	34999 1947599	69149	145243	375505	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd 5	Ave	9967	29264	54040	116133	302935	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.: 410-99372-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

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
			610058	1553687				10.0	25.0			
1,1,2-Trichloroethane	CBZd 5	Ave	7912 404572	21374 1020101	40627	84210	207585	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd 5	Ave	13152 682338	35433 1756341	67675	140565	355454	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd 5	Ave	13365 705748	36600 1766895	69965	145113	366005	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBAd 10	Ave	42725 2660875	123588 6616151	247070	510532	1349331	2.00 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd 5	Ave	8621 512238	24859 1312207	46481	98443	257820	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane	CBZd 5	Ave	6933 394261	20044 996887	37064	79714	199120	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd 5	Ave	17906 811122	43798 2117826	81147	167760	422503	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chlorobenzene	CBZd 5	Ave	33861 1718683	91634 4385755	173193	352259	882611	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd 5	Ave	10842 584797	29412 1509448	55325	118338	298570	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd 5	Ave	53287 2898705	148239 7445839	282580	586626	1471927	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd 5	Ave	42590 2318735	117197 5955366	230360	469217	1187447	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd 5	Ave	21117	59292	113031	231506	591255	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.: 410-99372-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

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
			1149776	2961699				10.0	25.0			
Styrene	CBZd 5	Ave	34317 1930190	93291 4961998	180116	384630	973785	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd 5	Ave	4911 304772	14114 802862	26326	57517	150577	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd 5	Ave	53375 2934036	149953 7467245	289388	589633	1507786	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	9593 521855	27538 1335844	51538	106640	264788	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd 4	Ave	14153 739659	38100 1876425	71493	148658	368252	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	21808 1316632	63969 3434592	120833	257721	651340	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	2720 135978	7083 338831	13537	27317	68664	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd 4	Ave	64351 3563972	181457 8940228	348619	719215	1818248	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd 4	Ave	14171 742687	37785 1879996	72794	148112	374593	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd 4	Ave	45244 2602668	130841 6681135	246256	514383	1304146	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd 4	Ave	13732 762667	39446 1983516	73677	151548	392996	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd 4	Ave	10341	27675	54084	111261	302846	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.: 410-99372-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

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
			564379	1467578				10.0	25.0			
Pentachloroethane	DCBd 4	Ave	7199 452438	20442 1186327	39851	83992	226588	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd 4	Ave	46630 2700369	135109 6914040	258595	533692	1363905	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd 4	Ave	57837 3277891	165597 8318844	319377	653385	1673386	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichlorobenzene	DCBd 4	Ave	28046 1524668	77468 3905280	147649	304220	766080	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd 4	Ave	52964 2933697	146197 7465264	278362	580567	1478589	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd 4	Ave	29384 1560415	79820 3914272	150564	308250	775609	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd 4	Ave	22746 1203438	62523 3087805	117073	241995	607653	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd 4	Ave	3489 237062	10497 618066	19724	43555	116673	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd 4	Ave	26009 1479651	73222 3805919	141416	292535	750462	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd 4	Ave	25403 1412566	71451 3607202	135919	280876	701375	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1295 78968	3750 206473	6274	14627	40444	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd 4	Ave	20926	61945	114715	239094	612369	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.: 410-99372-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

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
			1217566	3141786				10.0	25.0			
1,2,4-Trichlorobenzene	DCBd 4	Ave	17325 1052807	50765 2739507	94997	200037	522154	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd 4	Ave	9531 526010	26841 1349576	49990	104110	262775	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd 4	Ave	26713 1734949	77218 4518703	147337	315886	852539	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd 4	Ave	14124 857542	39407 2228217	76007	161145	425824	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	464989 465740	463908 473798	463253	458737	458730	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	97289 96949	96790 96466	94021	93896	92628	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd 5	Ave	2020876 2005572	2006585 2059118	1995655	1994377	2002030	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	749498 746355	743073 758454	737027	735025	742687	10.0 10.0	10.0 10.0	10.0	10.0	10.0

Curve Type Legend
Ave = Average ISTD
Qua = Quadratic ISTD

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-288300/13	CG22X12.D
Level 2	IC 410-288300/14	CG22X13.D
Level 3	IC 410-288300/15	CG22X14.D
Level 4	IC 410-288300/16	CG22X15.D
Level 5	IC 410-288300/17	CG22X16.D
Level 6	ICIS 410-288300/18	CG22X17.D
Level 7	IC 410-288300/19	CG22X18.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	-3.6 -1.8	-3.7	3.0	4.2	4.7	-2.8	50 30	30	30	30	30	30
Chloromethane	2.2 -6.3	8.2	2.8	0.8	-1.3	-6.4	50 30	30	30	30	30	30
Vinyl chloride	-0.2 -2.7	1.2	-2.4	3.6	4.5	-4.0	50 30	30	30	30	30	30
1,3-Butadiene	7.5 -4.7	-4.0	-0.3	3.1	3.2	-4.9	50 30	30	30	30	30	30
Bromomethane	1.0 -2.2	1.7	-0.9	1.7	1.9	-3.3	50 30	30	30	30	30	30
Chloroethane	2.5 -5.9	4.3	3.1	1.0	0.7	-5.6	50 30	30	30	30	30	30
Dichlorofluoromethane	-0.6 -4.5	8.9	-0.1	1.1	0.7	-5.4	50 30	30	30	30	30	30
Trichlorofluoromethane	-5.4 0.1	-2.4	0.5	5.0	4.9	-2.6	50 30	30	30	30	30	30
Ethyl ether	-2.9 -0.4	-1.1	-2.1	5.5	1.2	-0.3	50 30	30	30	30	30	30
Freon 123a	8.4 -3.7	3.5	-1.8	0.2	-0.7	-6.0	50 30	30	30	30	30	30
Acrolein	-7.4 -1.3	5.3	8.7	8.4	-10.5	-3.2	50 30	30	30	30	30	30
1,1-Dichloroethene	0.5 -2.8	8.2	-2.0	-0.2	0.3	-3.9	50 30	30	30	30	30	30
Acetone	16.0 -13.7	23.4	1.5	1.3	-16.4	-12.2	50 30	30	30	30	30	30
Freon 113	-7.5 -0.1	2.4	0.9	3.0	6.4	-5.0	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.: 410-99372-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

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	-6.8 -0.5	5.6	-1.6	2.5	2.1	-1.2	50 30	30	30	30	30	30
Carbon disulfide	-9.9 2.3	3.8	-1.6	1.6	3.6	0.2	50 30	30	30	30	30	30
Methyl acetate	5.2 0.1	0.6	-5.0	19.4	-14.8	-5.5	50 30	30	30	30	30	30
Allyl chloride	-3.8 -0.9	5.4	-1.9	1.4	1.7	-1.9	50 30	30	30	30	30	30
Methylene Chloride	-2.5 -2.6	6.8	-1.0	1.2	0.3	-2.3	50 30	30	30	30	30	30
t-Butyl alcohol	-8.6 -7.4	23.5	17.8	1.9	-18.2	-8.9	50 30	30	30	30	30	30
Acrylonitrile	-7.4 -4.3	5.4	12.4	6.4	-7.0	-5.5	50 30	30	30	30	30	30
Methyl tertiary butyl ether	-5.7 -1.1	4.8	-2.1	3.1	1.8	-0.8	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-4.4 -2.4	7.4	-0.8	2.3	1.0	-3.1	50 30	30	30	30	30	30
n-Hexane	-3.5 -0.2	6.3	-2.4	-1.9	5.2	-3.5	50 30	30	30	30	30	30
1,1-Dichloroethane	-7.2 -1.3	5.1	-0.2	3.0	2.3	-1.7	50 30	30	30	30	30	30
di-Isopropyl ether	-5.3 -1.0	5.5	-1.2	2.1	1.6	-1.7	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-6.0 1.8	4.0	-1.1	0.4	1.4	-0.5	50 30	30	30	30	30	30
Ethyl t-butyl ether	-5.8 -0.5	2.9	-0.7	2.1	2.3	-0.3	50 30	30	30	30	30	30
2-Butanone	-5.9 -1.9	0.2	8.0	8.4	-5.1	-3.7	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-9.2 -1.4	7.7	0.3	1.2	2.8	-1.4	50 30	30	30	30	30	30
2,2-Dichloropropane	-4.2 -1.2	2.5	-2.0	5.4	1.9	-2.4	50 30	30	30	30	30	30
Propionitrile	-12.4 -4.5	4.6	5.5	4.1	2.4	0.3	50 30	30	30	30	30	30
Methacrylonitrile	-16.9 3.7	-1.6	9.2	9.4	-2.0	-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.: 410-99372-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

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	-10.9 0.4	7.0	-0.2	2.3	2.5	-1.1	50 30	30	30	30	30	30
Tetrahydrofuran	0.6 -1.3	-1.5	9.8	4.0	-5.9	-5.6	50 30	30	30	30	30	30
Chloroform	-3.2 -1.4	4.1	0.6	1.3	0.8	-2.2	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-9.3 -0.2	4.3	1.8	2.6	2.7	-1.9	50 30	30	30	30	30	30
Cyclohexane	-9.4 3.0	3.5	-1.1	0.9	5.1	-1.9	50 30	30	30	30	30	30
Carbon tetrachloride	-10.7 4.5	0.8	-1.6	2.6	4.4	0.2	50 30	30	30	30	30	30
1,1-Dichloropropene	-3.5 0.7	5.7	-2.7	0.2	1.6	-2.0	50 30	30	30	30	30	30
Isobutyl alcohol	8.0 -7.1	6.3	4.4	-0.7	-6.8	-4.2	50 30	30	30	30	30	30
Benzene	-2.6 -1.3	4.4	-1.2	1.2	1.9	-2.4	50 30	30	30	30	30	30
1,2-Dichloroethane	4.2 -4.8	7.8	0.4	2.1	-5.2	-4.5	50 30	30	30	30	30	30
t-Amyl methyl ether	-8.2 -0.1	3.6	-0.1	2.9	1.8	0.2	50 30	30	30	30	30	30
n-Heptane	0.3 -1.7	3.2	-2.9	0.2	2.9	-1.9	50 30	30	30	30	30	30
n-Butanol	-25.3 4.5	-0.7	5.3	-1.1	8.3	9.0	50 30	30	30	30	30	30
Trichloroethene	-7.6 0.2	5.1	-2.9	3.8	2.5	-1.2	50 30	30	30	30	30	30
Methylcyclohexane	-9.0 2.7	1.8	-2.0	1.1	6.8	-1.4	50 30	30	30	30	30	30
1,2-Dichloropropane	-6.5 -1.6	5.5	-0.4	2.9	1.6	-1.5	50 30	30	30	30	30	30
Methyl methacrylate	-28.8 13.7	-3.5	8.9	7.7	-0.7	2.8	50 30	30	30	30	30	30
1,4-Dioxane	-32.6 0.0	19.7	-3.6	-0.6	0.6	-0.2	50 30	30	30	30	30	30
Dibromomethane	-2.7 -1.2	3.7	-2.6	3.0	1.7	-1.8	50 30	30	30	30	30	30

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

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	-10.3 2.3	1.9	-0.8	3.4	2.8	0.8	50 30	30	30	30	30	30
2-Nitropropane	7.9 4.2	-3.3	-2.5	2.0	-5.8	-2.5	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-13.2 4.4	1.5	-4.0	1.5	5.5	4.4	50 30	30	30	30	30	30
4-Methyl-2-pentanone	-14.8 4.7	-1.7	6.5	7.8	-1.2	-1.2	50 30	30	30	30	30	30
Toluene	-5.4 0.4	3.4	0.0	1.8	1.7	-1.9	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-16.6 8.0	-2.6	-2.1	2.7	5.4	5.2	50 30	30	30	30	30	30
Ethyl methacrylate	-14.6 6.5	0.7	-5.4	1.6	5.2	5.9	50 30	30	30	30	30	30
1,1,2-Trichloroethane	-4.7 -1.8	3.3	-0.1	3.5	1.2	-1.4	50 30	30	30	30	30	30
Tetrachloroethene	-5.9 0.5	1.8	-1.1	2.7	3.0	-1.1	50 30	30	30	30	30	30
1,3-Dichloropropane	-6.8 -1.5	2.4	-0.4	3.3	3.3	-0.4	50 30	30	30	30	30	30
2-Hexanone	-22.3 9.7	-7.0	8.4	7.7	1.6	1.9	50 30	30	30	30	30	30
Dibromochloromethane	-13.1 5.8	0.6	-4.3	1.3	5.2	4.5	50 30	30	30	30	30	30
1,2-Dibromoethane	-11.3 2.0	3.0	-3.1	4.1	3.2	2.1	50 30	30	30	30	30	30
1-Chlorohexane	4.8 -0.9	2.9	-3.0	0.2	0.1	-3.9	50 30	30	30	30	30	30
Chlorobenzene	-4.3 -0.8	4.0	0.0	1.6	1.1	-1.6	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-7.5 3.0	0.8	-3.6	3.1	3.2	1.0	50 30	30	30	30	30	30
Ethylbenzene	-8.6 2.1	2.0	-1.0	2.7	2.2	0.6	50 30	30	30	30	30	30
m&p-Xylene	-8.9 1.9	0.6	0.6	2.4	2.9	0.4	50 30	30	30	30	30	30
o-Xylene	-9.1 2.0	2.5	-0.6	1.8	3.1	0.2	50 30	30	30	30	30	30

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

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	-9.7 4.4	-1.4	-3.2	3.3	3.8	2.8	50 30	30	30	30	30	30
Bromoform	-15.1 11.0	-2.1	-7.1	1.4	5.4	6.6	50 30	30	30	30	30	30
Isopropylbenzene	-9.5 1.2	2.0	0.2	2.0	3.5	0.7	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-8.0 -2.5	6.9	1.3	3.3	1.0	-2.0	50 30	30	30	30	30	30
Bromobenzene	-3.5 -2.6	5.1	-0.1	2.4	-0.1	-1.3	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-13.4 3.8	2.8	-1.7	3.4	2.8	2.3	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-0.3 -5.5	5.1	1.7	1.2	0.1	-2.4	50 30	30	30	30	30	30
N-Propylbenzene	-8.4 -3.2	4.5	1.7	3.4	2.9	-0.7	50 30	30	30	30	30	30
2-Chlorotoluene	-3.8 -2.9	3.8	1.3	1.6	1.2	-1.3	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-10.6 0.5	4.6	-0.3	2.7	2.5	0.7	50 30	30	30	30	30	30
4-Chlorotoluene	-9.1 -0.1	5.6	-0.1	1.3	3.5	-1.2	50 30	30	30	30	30	30
tert-Butylbenzene	-7.3 0.1	0.3	-0.7	0.7	7.9	-1.0	50 30	30	30	30	30	30
Pentachloroethane	-14.6 7.1	-1.9	-3.1	0.6	6.9	5.0	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-11.3 0.1	4.0	0.8	2.6	3.2	0.6	50 30	30	30	30	30	30
sec-Butylbenzene	-10.1 -1.6	4.2	1.7	2.6	3.4	-0.3	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-6.7 -1.1	4.3	0.7	2.2	1.4	-0.7	50 30	30	30	30	30	30
p-Isopropyltoluene	-7.5 -0.8	3.3	-0.4	2.4	2.7	0.3	50 30	30	30	30	30	30
1,4-Dichlorobenzene	-4.3 -3.0	5.2	0.5	1.5	0.5	-0.5	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-5.0 -1.9	5.6	0.1	2.0	0.9	-1.7	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.: 410-99372-1 Analy Batch No.: 288300

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/22/2022 20:12 Calibration End Date: 08/22/2022 22:26 Calibration ID: 41918

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	-19.0 9.1	-1.4	-6.2	2.1	7.7	7.7	50 30	30	30	30	30	30
n-Butylbenzene	-9.8 0.4	2.7	0.5	2.4	3.5	0.4	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-8.1 -0.7	4.6	0.8	2.6	0.9	0.0	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-12.0 6.8	3.1	-12.6	0.4	9.3	5.0	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-11.6 1.0	5.8	-0.7	2.0	2.9	0.7	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-13.2 4.4	2.9	-2.5	1.2	4.0	3.2	50 30	30	30	30	30	30
Hexachlorobutadiene	-7.5 -0.4	5.3	-0.6	2.0	1.4	-0.1	50 30	30	30	30	30	30
Naphthalene	-15.9 8.3	-1.6	-4.9	0.5	6.8	6.9	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-12.2 5.4	-0.9	-3.2	1.2	5.3	4.3	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-0.2 0.7	0.0	0.2	-0.7	-0.2	0.2	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	1.6 -0.3	1.4	-1.1	-1.1	-2.0	1.5	50 30	30	30	30	30	30
Toluene-d8 (Surr)	-0.5 1.3	-0.9	0.3	0.2	-0.2	-0.1	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-0.3 0.8	-0.8	0.1	-0.2	0.0	0.5	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D
Lims ID: IC std1 0.2
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 22-Aug-2022 20:12:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-013
Misc. Info.: IC STD.2 LG
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:20 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: DVW2 Date: 23-Aug-2022 07:44:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.757	1.764	-0.007	97	10972	0.2000	0.1929	
5 Chloromethane	50	1.940	1.940	0.000	98	15369	0.2000	0.2044	
6 Vinyl chloride	62	2.044	2.038	0.006	92	13917	0.2000	0.1995	
7 Butadiene	39	2.044	2.050	-0.006	90	16039	0.2000	0.2151	M
9 Bromomethane	94	2.324	2.331	-0.007	89	9377	0.2000	0.2021	M
10 Chloroethane	64	2.392	2.398	-0.006	99	8309	0.2000	0.2049	
11 Dichlorofluoromethane	67	2.611	2.617	-0.006	97	18620	0.2000	0.1988	
12 Trichlorofluoromethane	101	2.672	2.672	0.000	65	14979	0.2000	0.1893	
13 Pentane	43	2.684	2.678	0.006	98	15693	0.2000	0.2237	M
15 Ethyl ether	59	2.861	2.861	0.000	56	7885	0.2001	0.1943	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.965	2.959	0.006	94	13359	0.2000	0.2167	
17 Acrolein	56	3.019	3.013	0.006	99	57965	10.0	9.26	
19 1,1-Dichloroethene	96	3.135	3.135	0.000	97	8812	0.2000	0.2009	
20 Acetone	43	3.166	3.166	0.000	89	16327	2.00	2.32	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.178	3.178	0.000	90	7638	0.2000	0.1849	
22 Iodomethane	142	3.306	3.300	0.006	99	15047	0.2000	0.1864	
23 Isopropyl alcohol	45	3.324	3.318	0.006	31	7348	4.00	4.73	M
24 Ethyl bromide	108	3.324	3.324	0.000	97	7653	0.2000	0.1854	
25 Carbon disulfide	76	3.391	3.391	0.000	100	24439	0.2000	0.1802	
27 Methyl acetate	43	3.532	3.532	0.000	28	4364	0.2000	0.2104	
28 3-Chloro-1-propene	41	3.550	3.544	0.006	94	15566	0.2000	0.1925	
29 Methylene Chloride	84	3.714	3.708	0.006	86	10145	0.2000	0.1951	
* 30 t-Butyl alcohol-d10 (IS)	65	3.745	3.739	0.006	90	136580	50.0	50.0	
31 2-Methyl-2-propanol	59	3.830	3.849	-0.019	24	10405	4.00	3.66	
32 Acrylonitrile	53	4.056	4.019	0.037	22	4904	0.5000	0.4630	
33 Methyl tert-butyl ether	73	4.080	4.068	0.012	86	25132	0.2000	0.1887	
34 trans-1,2-Dichloroethene	96	4.068	4.074	-0.006	97	10331	0.2000	0.1912	
35 Hexane	57	4.483	4.470	0.013	91	13985	0.2000	0.1930	
36 1,1-Dichloroethane	63	4.726	4.720	0.006	95	18464	0.2000	0.1857	
38 Isopropyl ether	45	4.781	4.787	-0.006	93	34613	0.2000	0.1893	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Chloro-1,3-butadiene	53	4.836	4.830	0.006	90	14606	0.2000	0.1880	M
40 Tert-butyl ethyl ether	59	5.336	5.330	0.006	97	31825	0.2000	0.1885	
41 2-Butanone (MEK)	43	5.580	5.543	0.037	85	27023	2.00	1.88	
42 cis-1,2-Dichloroethene	96	5.574	5.574	0.000	83	10751	0.2000	0.1816	
43 2,2-Dichloropropane	77	5.592	5.586	0.006	61	15053	0.2000	0.1916	M
45 Propionitrile	54	5.690	5.635	0.055	90	12511	4.00	3.50	M
46 Methacrylonitrile	67	5.866	5.860	0.006	91	25222	2.00	1.66	
47 Chlorobromomethane	128	5.909	5.909	0.000	98	4671	0.2000	0.1781	
48 Tetrahydrofuran	71	5.927	5.927	0.000	47	4091	1.00	1.01	M
50 Chloroform	83	6.080	6.074	0.006	93	18150	0.2000	0.1937	
S 51 1,2-Dichloroethene, Total	100				0			0.3729	
52 1,1,1-Trichloroethane	97	6.293	6.293	0.000	37	14862	0.2000	0.1814	
$ 53 Dibromofluoromethane (Surr)	113	6.293	6.293	0.000	94	464989	10.0	9.98	
54 Cyclohexane	56	6.379	6.385	-0.006	92	16693	0.2000	0.1811	
55 Carbon tetrachloride	117	6.507	6.501	0.006	79	12280	0.2000	0.1785	
56 1,1-Dichloropropene	75	6.513	6.513	0.000	94	14777	0.2000	0.1930	M
57 Isobutyl alcohol	41	6.726	6.708	0.018	78	10915	10.0	10.8	a
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.750	6.757	-0.007	78	97289	10.0	10.2	
59 Benzene	78	6.775	6.775	0.000	93	44669	0.2000	0.1947	
61 1,2-Dichloroethane	62	6.854	6.860	-0.006	95	12113	0.2000	0.2084	
63 Tert-amyl methyl ether	73	6.976	6.982	-0.006	99	27951	0.2000	0.1835	M
* 64 Fluorobenzene (IS)	96	7.195	7.196	-0.001	99	1993587	10.0	10.0	
65 n-Heptane	43	7.214	7.208	0.006	51	16517	0.2000	0.2005	
66 n-Butanol	56	7.665	7.622	0.043	87	10591	17.5	13.1	
67 Trichloroethene	95	7.683	7.683	0.000	98	10874	0.2000	0.1849	
68 Methylcyclohexane	83	7.982	7.982	0.000	88	17806	0.2000	0.1820	
69 1,2-Dichloropropane	63	8.025	8.025	0.000	96	11398	0.2000	0.1870	
70 2-ethoxy-2-methyl butane	87	8.043	8.043	0.000	93	16589	0.2000	0.1867	
71 Methyl methacrylate	69	8.140	8.128	0.012	85	3938	0.2000	0.1424	
72 1,4-Dioxane	88	8.134	8.134	0.000	31	585	10.0	6.74	
73 Dibromomethane	93	8.146	8.134	0.012	97	5293	0.2000	0.1946	
75 Dichlorobromomethane	83	8.384	8.384	0.000	98	12007	0.2000	0.1793	
76 2-Nitropropane	41	8.671	8.665	0.006	93	8495	1.00	1.08	M
78 1-Bromo-2-chloroethane	63	8.781	8.774	0.006	96	11426	0.2000	0.1879	
79 cis-1,3-Dichloropropene	75	8.963	8.951	0.012	96	15229	0.2000	0.1735	
81 4-Methyl-2-pentanone (MIBK)	43	9.158	9.159	-0.001	97	66201	2.00	1.70	
$ 82 Toluene-d8 (Surr)	98	9.280	9.280	0.000	93	2020876	10.0	9.95	
83 Toluene	92	9.372	9.366	0.006	98	28361	0.2000	0.1891	
84 trans-1,3-Dichloropropene	75	9.677	9.658	0.019	91	12033	0.2000	0.1668	
85 Ethyl methacrylate	69	9.750	9.738	0.012	91	9967	0.2000	0.1709	
86 1,1,2-Trichloroethane	97	9.878	9.872	0.006	91	7912	0.2000	0.1905	
87 Tetrachloroethene	166	9.957	9.951	0.006	96	13152	0.2000	0.1883	
102 1,3-Dichloropropane	76	10.049	10.043	0.007	90	13365	0.2000	0.1864	
S 103 1,3-Dichloropropene, Total	100				0			0.3403	
104 2-Hexanone	43	10.128	10.116	0.012	96	42725	2.00	1.55	
106 Chlorodibromomethane	129	10.268	10.268	0.000	89	8621	0.2000	0.1738	
107 Ethylene Dibromide	107	10.378	10.378	0.000	98	6933	0.2000	0.1774	
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	85	1542113	10.0	10.0	
109 1-Chlorohexane	91	10.853	10.853	0.000	89	17906	0.2000	0.2095	
110 Chlorobenzene	112	10.859	10.859	0.000	96	33861	0.2000	0.1915	
111 1,1,1,2-Tetrachloroethane	131	10.951	10.951	0.000	94	10842	0.2000	0.1850	
112 Ethylbenzene	91	10.957	10.957	0.000	98	53287	0.2000	0.1827	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
113 m-Xylene & p-Xylene	106	11.079	11.079	0.000	100	42590	0.4000	0.3644	
S 114 Xylenes, Total	106				0			0.5463	
115 o-Xylene	106	11.420	11.414	0.006	95	21117	0.2000	0.1819	
116 Styrene	104	11.439	11.432	0.007	94	34317	0.2000	0.1806	
117 Bromoform	173	11.591	11.591	0.000	95	4911	0.2000	0.1697	
118 Isopropylbenzene	105	11.725	11.725	0.000	96	53375	0.2000	0.1809	
$ 121 4-Bromofluorobenzene (Surr)	95	11.871	11.871	0.000	92	749498	10.0	9.97	
123 1,1,2,2-Tetrachloroethane	83	11.987	11.987	0.000	71	9593	0.2000	0.1840	
122 Bromobenzene	156	11.993	11.987	0.006	85	14153	0.2000	0.1931	
124 trans-1,4-Dichloro-2-butene	53	12.018	12.012	0.006	91	21808	2.00	1.73	
125 1,2,3-Trichloropropane	110	12.030	12.030	0.000	77	2720	0.2000	0.1995	
126 N-Propylbenzene	91	12.066	12.067	0.000	98	64351	0.2000	0.1831	
127 2-Chlorotoluene	126	12.140	12.140	0.000	97	14171	0.2000	0.1925	
128 1,3,5-Trimethylbenzene	105	12.207	12.207	0.000	95	45244	0.2000	0.1788	
129 4-Chlorotoluene	126	12.237	12.237	0.000	96	13732	0.2000	0.1818	
130 tert-Butylbenzene	134	12.451	12.451	0.000	93	10341	0.2000	0.1853	
131 Pentachloroethane	167	12.481	12.481	0.000	83	7199	0.2000	0.1708	
132 1,2,4-Trimethylbenzene	105	12.499	12.493	0.006	96	46630	0.2000	0.1775	
133 sec-Butylbenzene	105	12.621	12.621	0.000	94	57837	0.2000	0.1798	
134 1,3-Dichlorobenzene	146	12.719	12.719	0.000	99	28046	0.2000	0.1866	
135 4-Isopropyltoluene	119	12.731	12.731	0.000	97	52964	0.2000	0.1850	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	94	881628	10.0	10.0	
137 1,4-Dichlorobenzene	146	12.792	12.792	0.000	93	29384	0.2000	0.1915	
138 1,2,3-Trimethylbenzene	120	12.804	12.804	0.000	97	22746	0.2000	0.1899	
139 Benzyl chloride	126	12.877	12.877	0.000	98	3489	0.2000	0.1620	
140 n-Butylbenzene	92	13.030	13.030	0.000	98	26009	0.2000	0.1803	
141 1,2-Dichlorobenzene	146	13.060	13.054	0.006	98	25403	0.2000	0.1838	
142 p-Diethylbenzene	119	13.085	13.085	0.000	87	27713	0.2000	0.1898	
145 1,2-Dibromo-3-Chloropropane	155	13.615	13.609	0.006	78	1295	0.2000	0.1760	
146 1,3,5-Trichlorobenzene	180	13.737	13.737	0.000	97	20926	0.2000	0.1768	
147 1,2,4-Trichlorobenzene	180	14.170	14.164	0.006	94	17325	0.2000	0.1736	
148 Hexachlorobutadiene	225	14.249	14.249	0.000	95	9531	0.2000	0.1849	
149 Naphthalene	128	14.353	14.347	0.006	96	26713	0.2000	0.1682	
150 1,2,3-Trichlorobenzene	180	14.493	14.493	0.000	95	14124	0.2000	0.1756	
151 2-Methylnaphthalene	142	15.096	15.090	0.006	94	10457	0.2000	0.1395	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00053	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00057	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00109	Amount Added:	2.00	Units: uL	
MSV_HP25_ISSS_00058	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 31-Aug-2022 08:31:21 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D

Injection Date: 22-Aug-2022 20:12:30 Instrument ID: 10193 Operator ID: knk41612

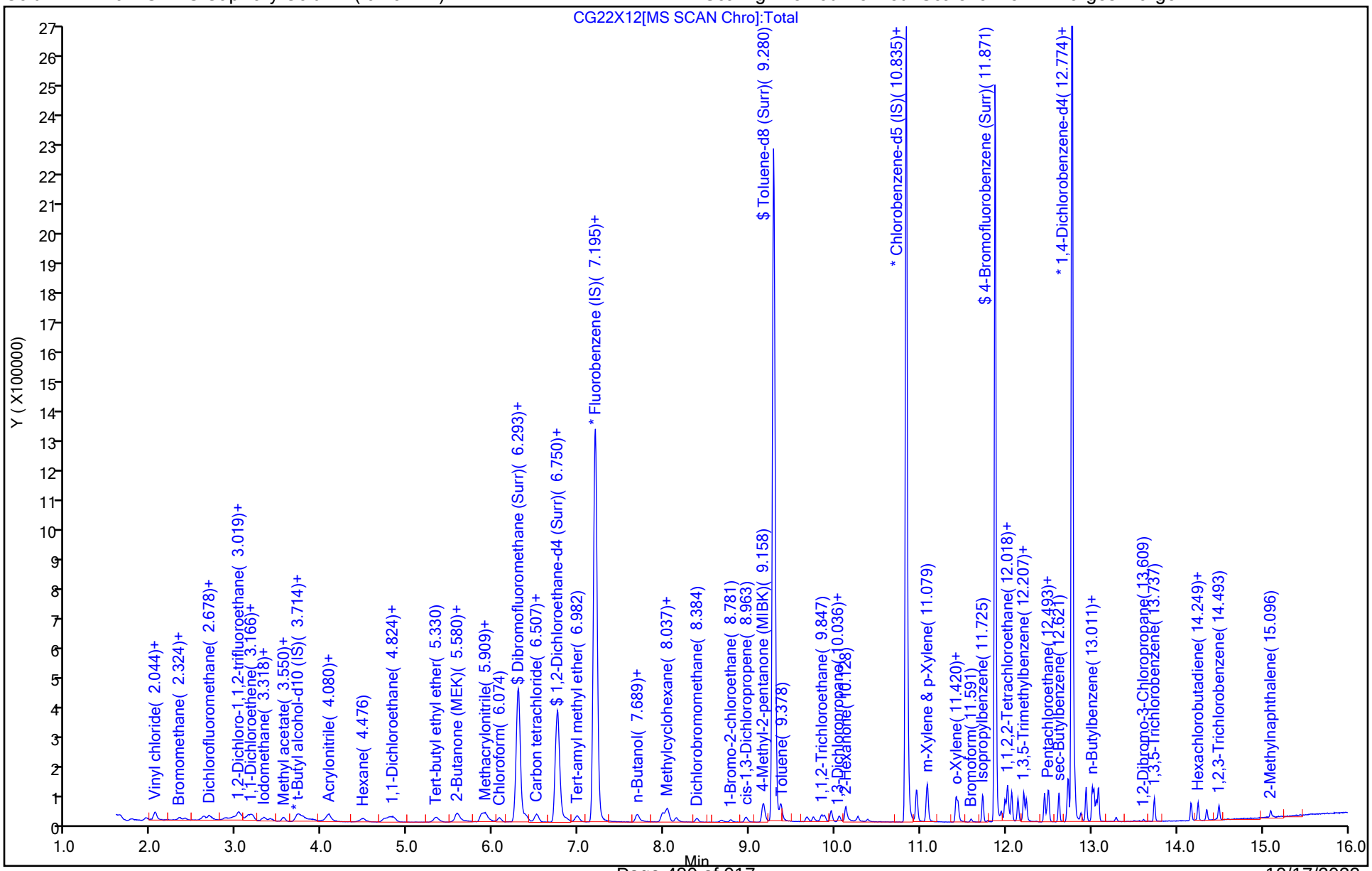
Lims ID: IC std1 0.2 Worklist Smp#: 13

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

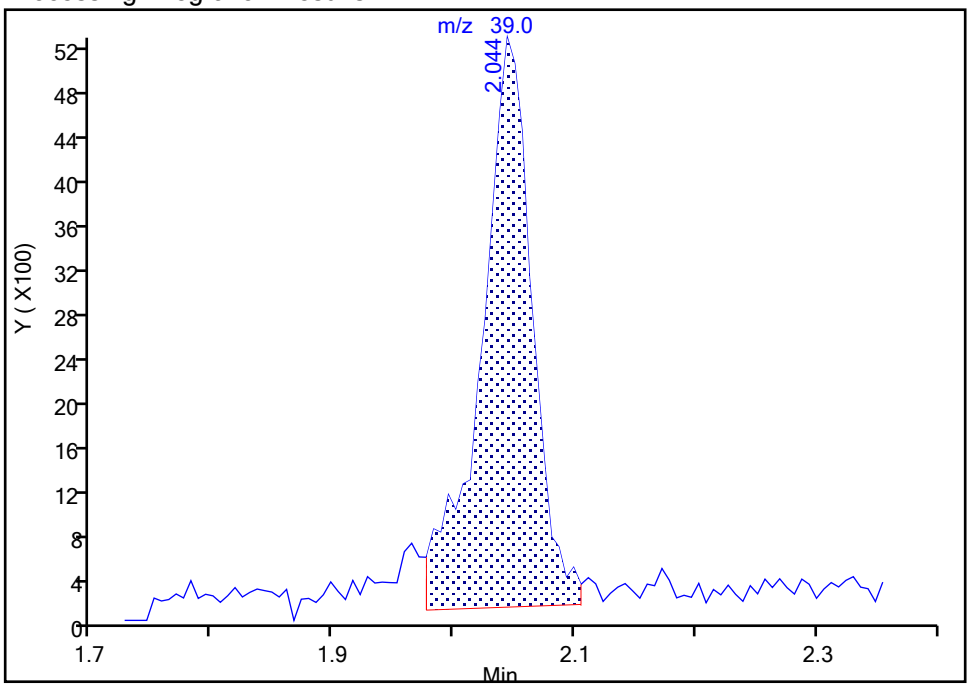
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D
Injection Date: 22-Aug-2022 20:12:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

7 Butadiene, CAS: 106-99-0

Signal: 1

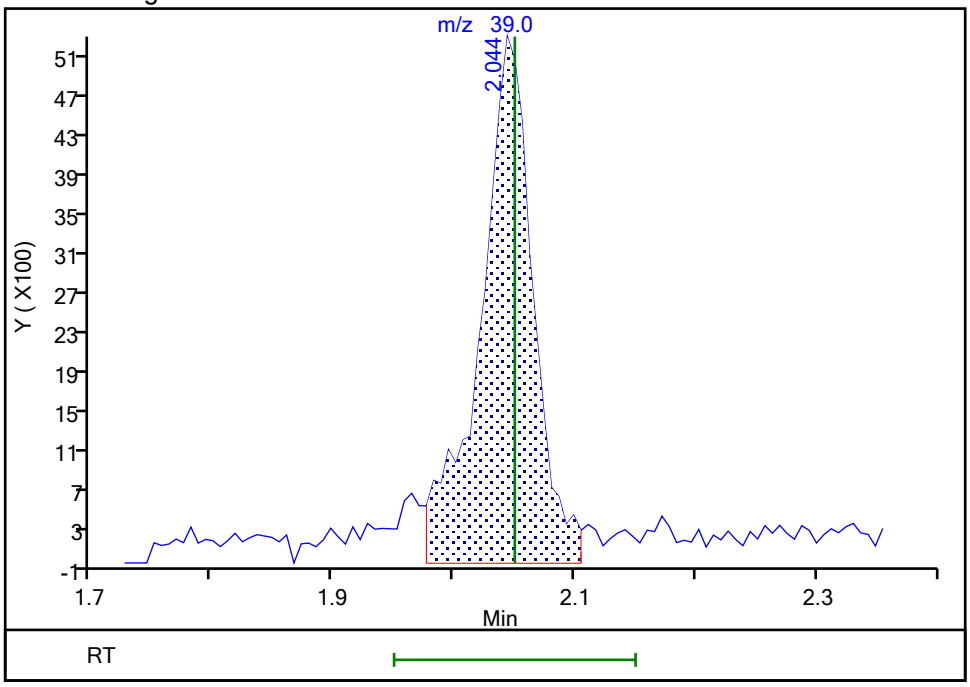
Processing Integration Results

RT: 2.04
Area: 15070
Amount: 0.203958
Amount Units: ug/l



Manual Integration Results

RT: 2.04
Area: 16039
Amount: 0.215058
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:23:09
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

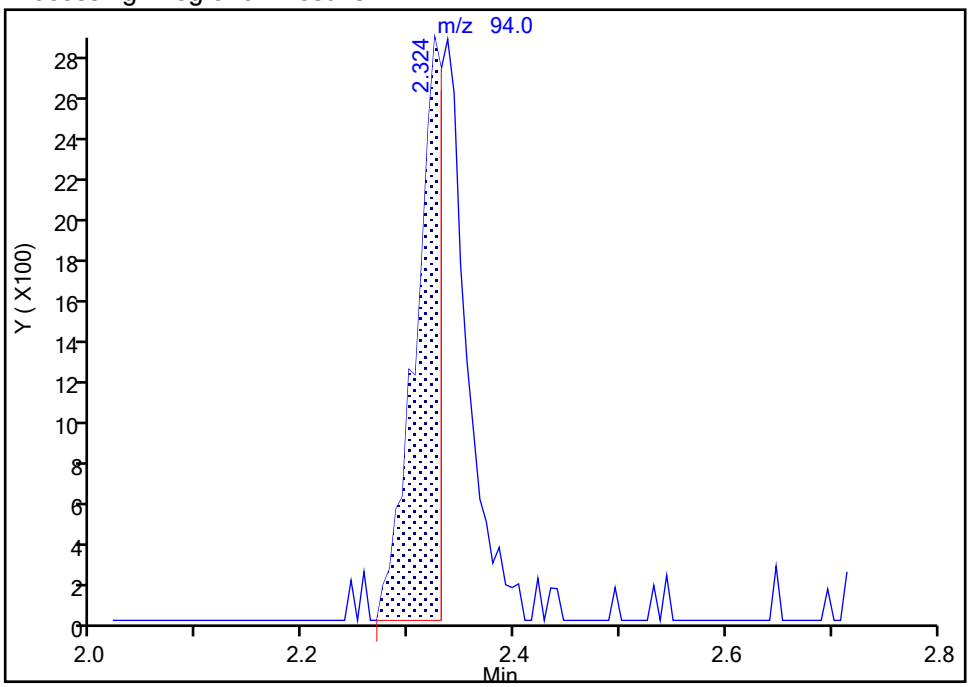
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D				
Injection Date:	22-Aug-2022 20:12:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

9 Bromomethane, CAS: 74-83-9

Signal: 1

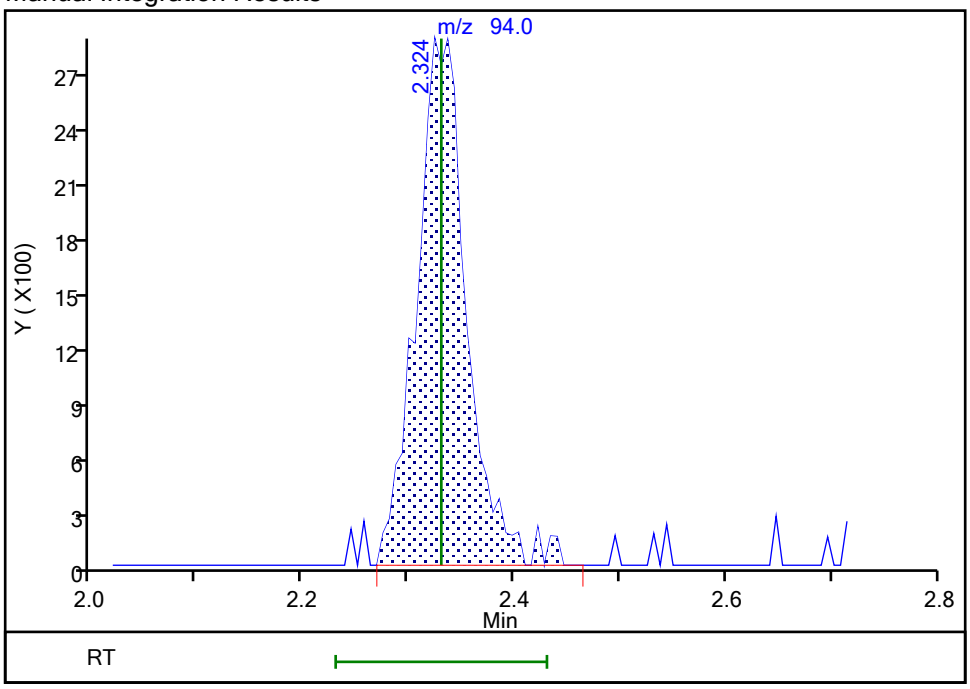
Processing Integration Results

RT: 2.32
Area: 4986
Amount: 0.115231
Amount Units: ug/l



Manual Integration Results

RT: 2.32
Area: 9377
Amount: 0.202064
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:23:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

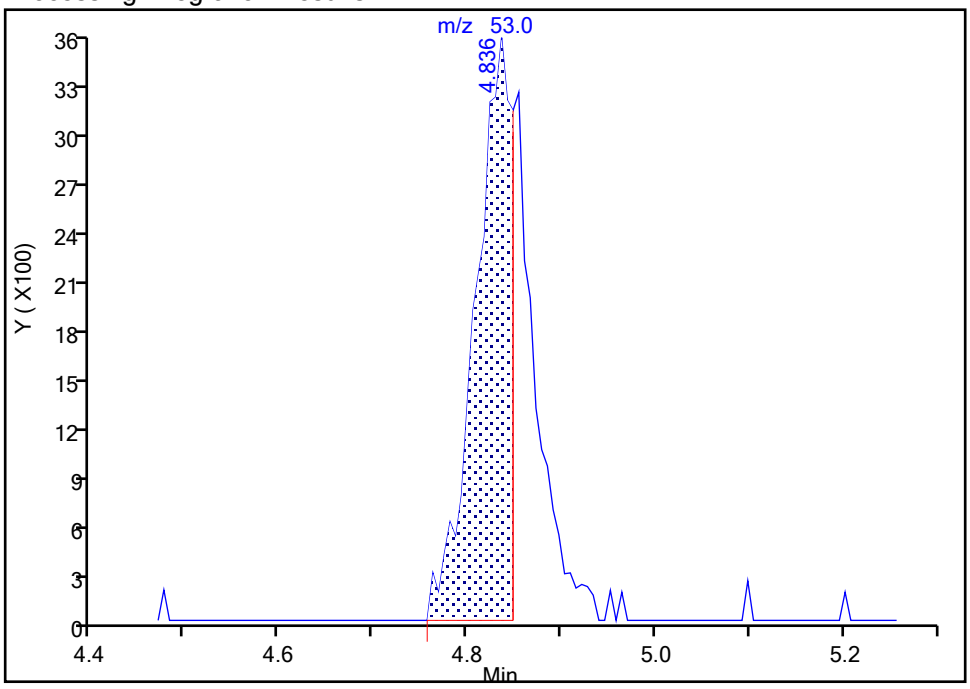
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D
Injection Date: 22-Aug-2022 20:12:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

39 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

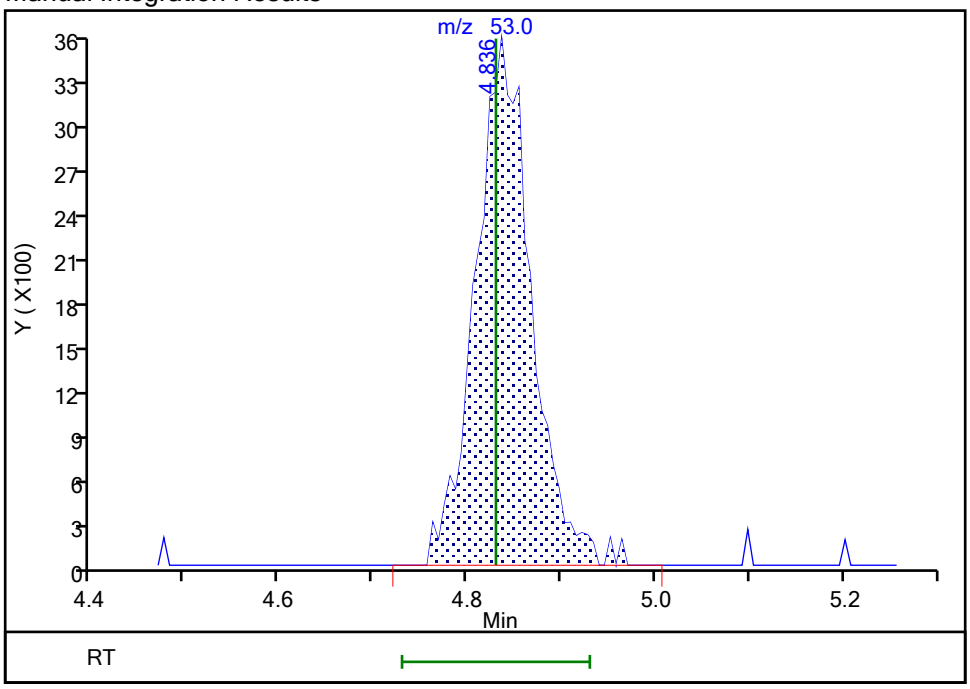
Processing Integration Results

RT: 4.84
Area: 9670
Amount: 0.130774
Amount Units: ug/l



Manual Integration Results

RT: 4.84
Area: 14606
Amount: 0.188011
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:24:06
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

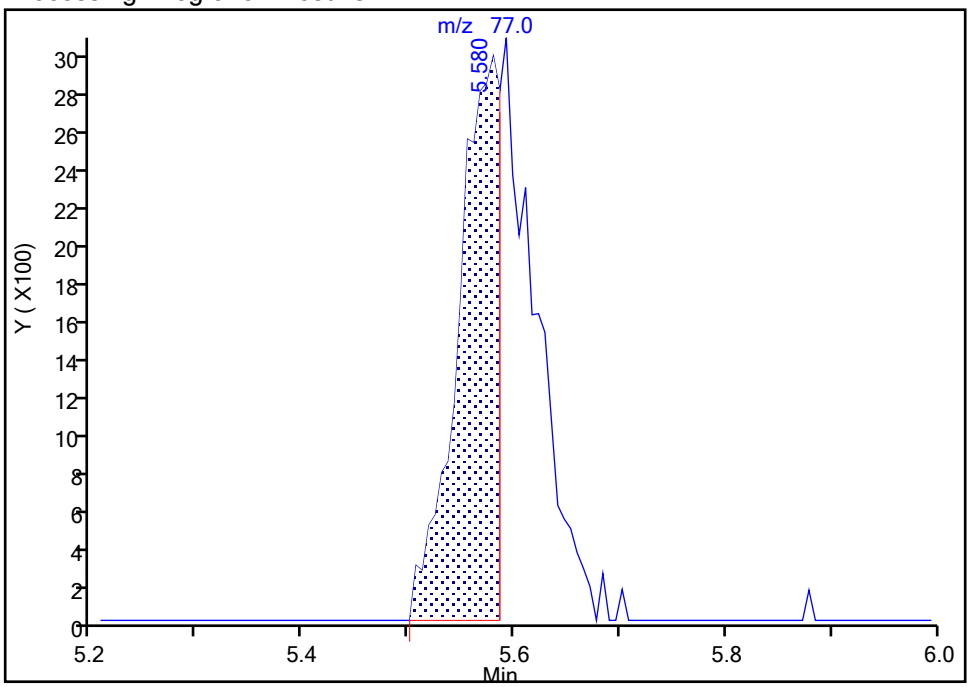
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D
Injection Date: 22-Aug-2022 20:12:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

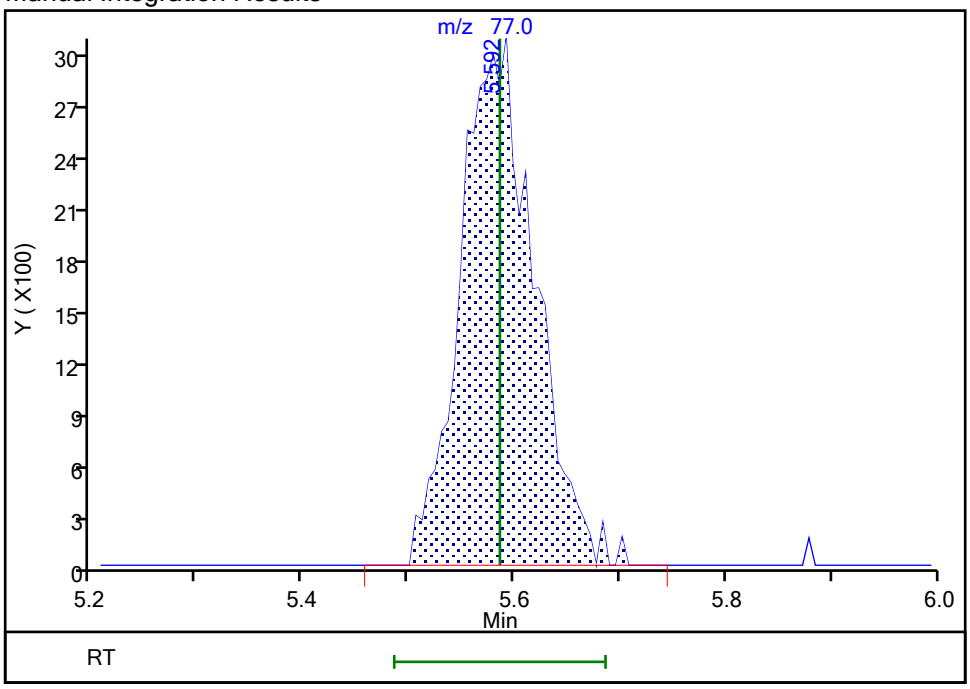
Processing Integration Results

RT: 5.58
Area: 8296
Amount: 0.112531
Amount Units: ug/l



Manual Integration Results

RT: 5.59
Area: 15053
Amount: 0.191639
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:24:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

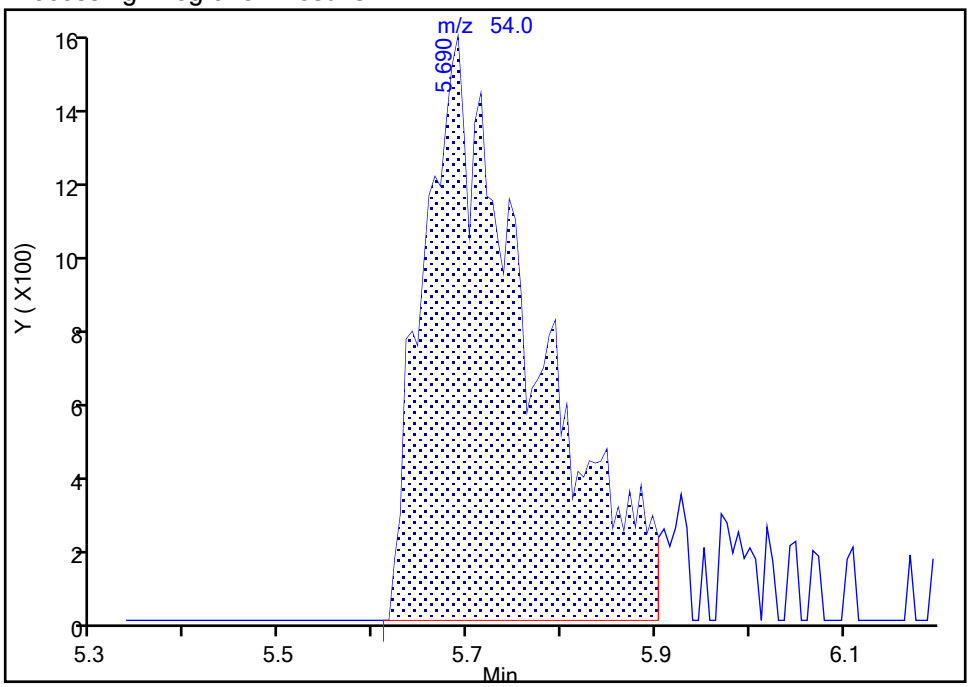
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D
Injection Date: 22-Aug-2022 20:12:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

45 Propionitrile, CAS: 107-12-0

Signal: 1

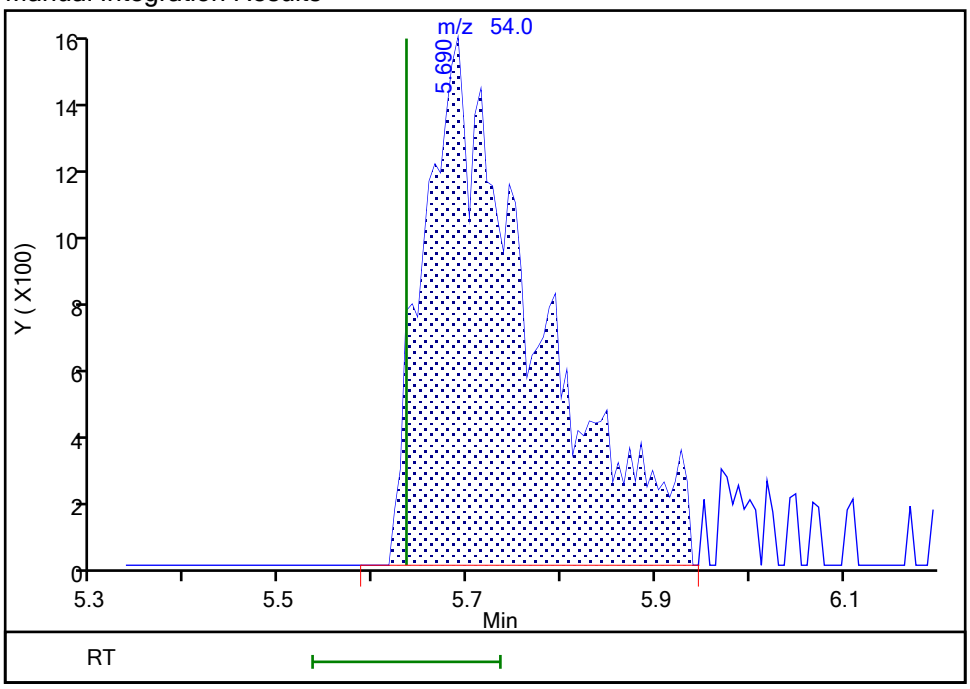
Processing Integration Results

RT: 5.69
Area: 12062
Amount: 3.395544
Amount Units: ug/l



Manual Integration Results

RT: 5.69
Area: 12511
Amount: 3.502050
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:24:16
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

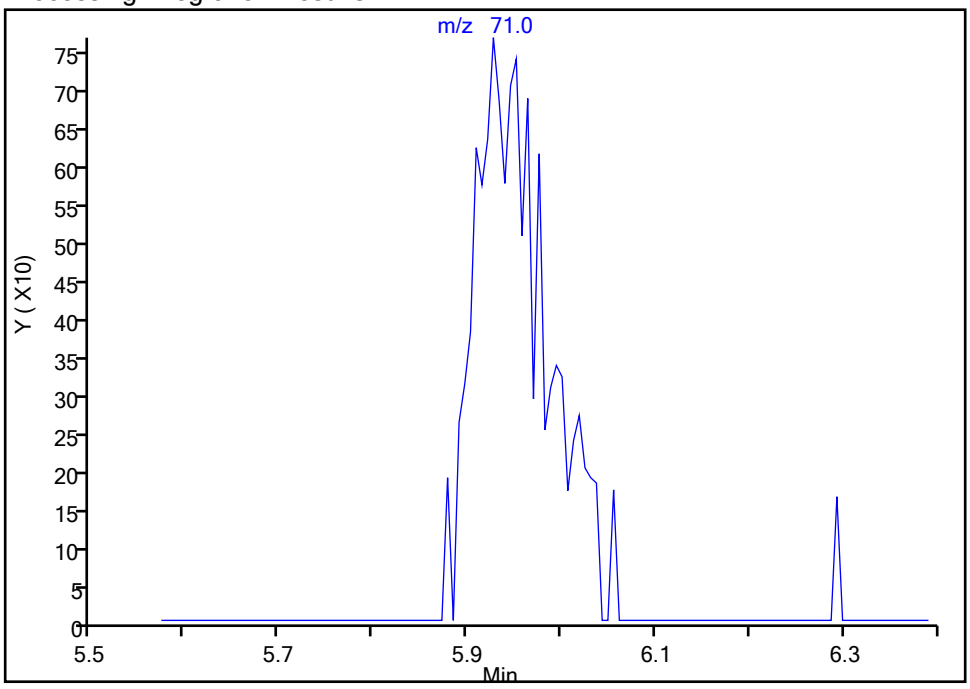
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D
Injection Date: 22-Aug-2022 20:12:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

48 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

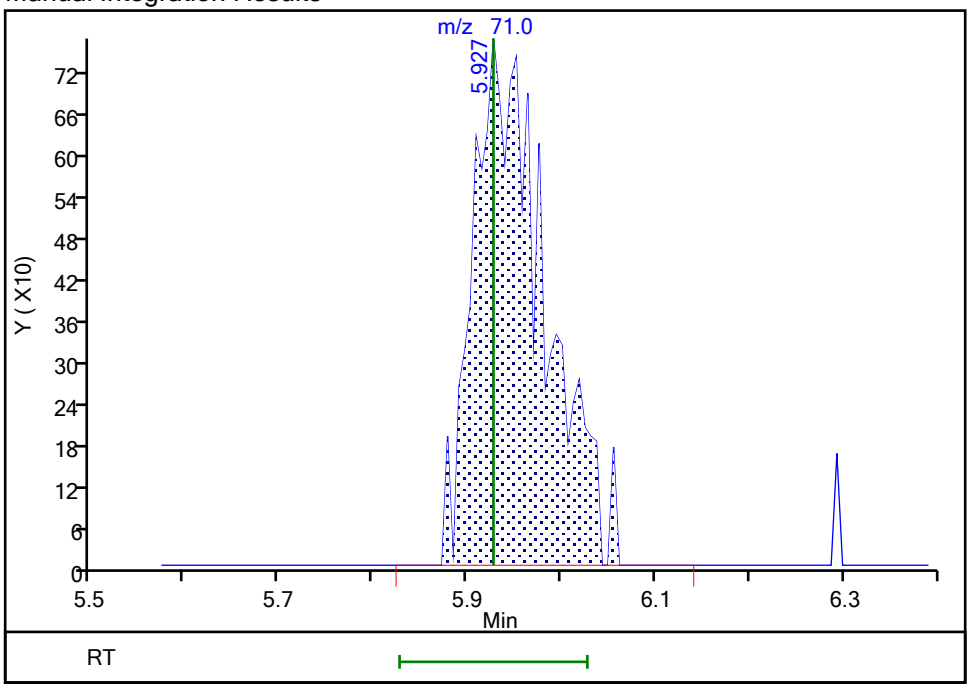
Not Detected
Expected RT: 5.93

Processing Integration Results



Manual Integration Results

RT: 5.93
Area: 4091
Amount: 1.005632
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:24:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

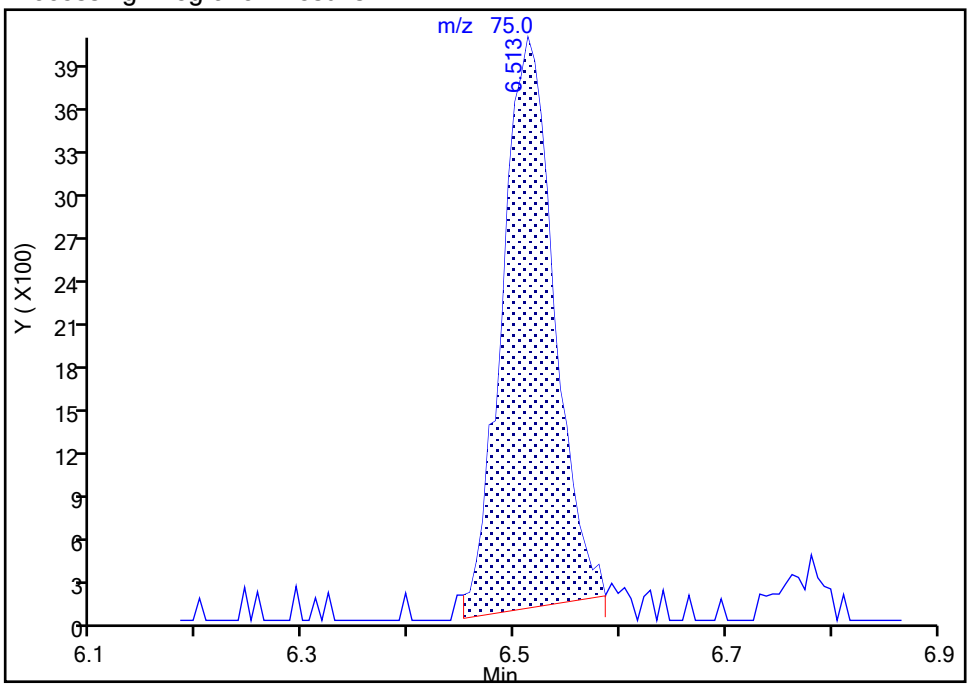
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D				
Injection Date:	22-Aug-2022 20:12:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

56 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

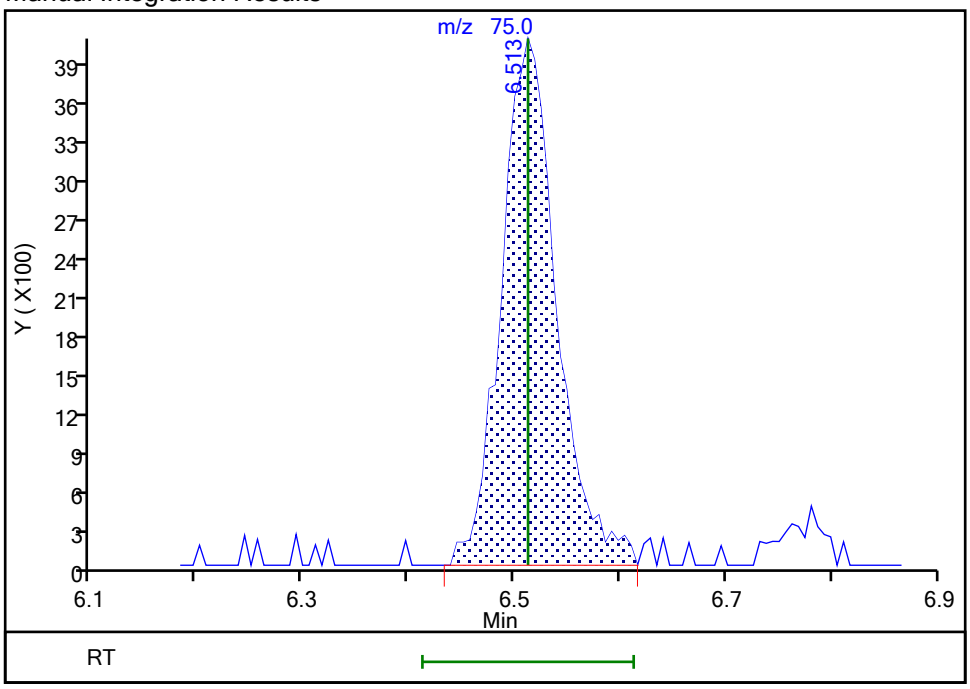
Processing Integration Results

RT: 6.51
Area: 13632
Amount: 0.179962
Amount Units: ug/l



Manual Integration Results

RT: 6.51
Area: 14777
Amount: 0.192994
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:24:34

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

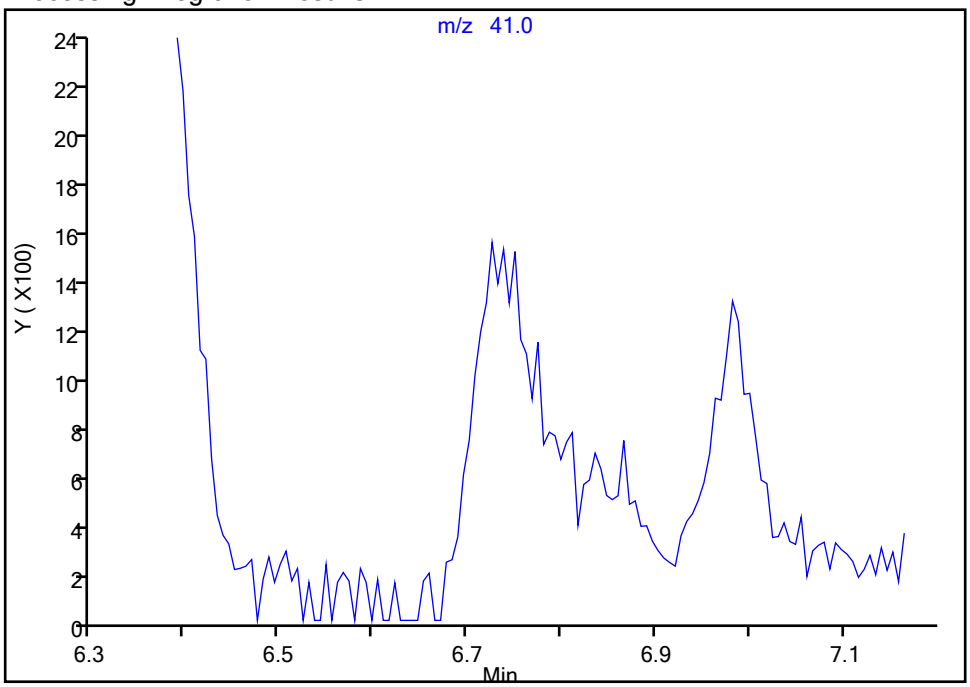
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D
Injection Date: 22-Aug-2022 20:12:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

57 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

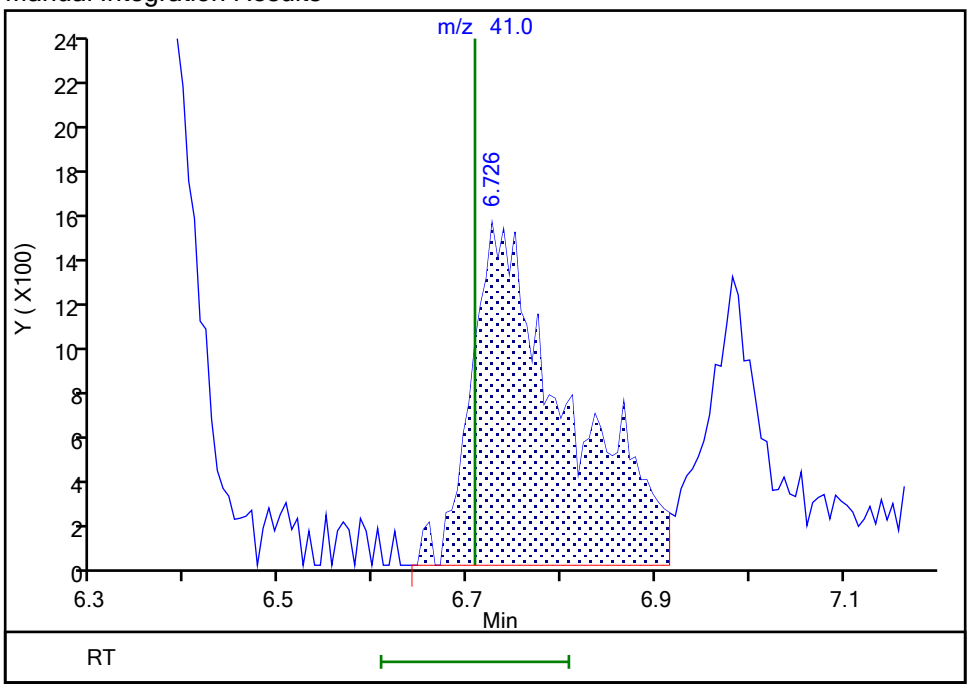
Not Detected
Expected RT: 6.71

Processing Integration Results



Manual Integration Results

RT: 6.73
Area: 10915
Amount: 10.802434
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:24:37
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

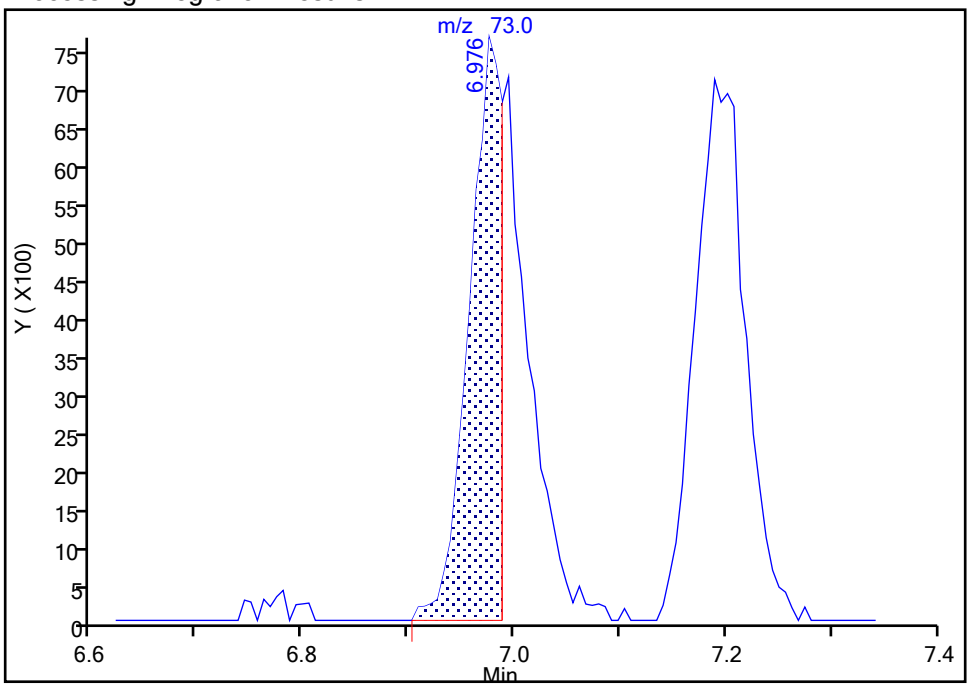
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D				
Injection Date:	22-Aug-2022 20:12:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

63 Tert-amyl methyl ether, CAS: 994-05-8

Signal: 1

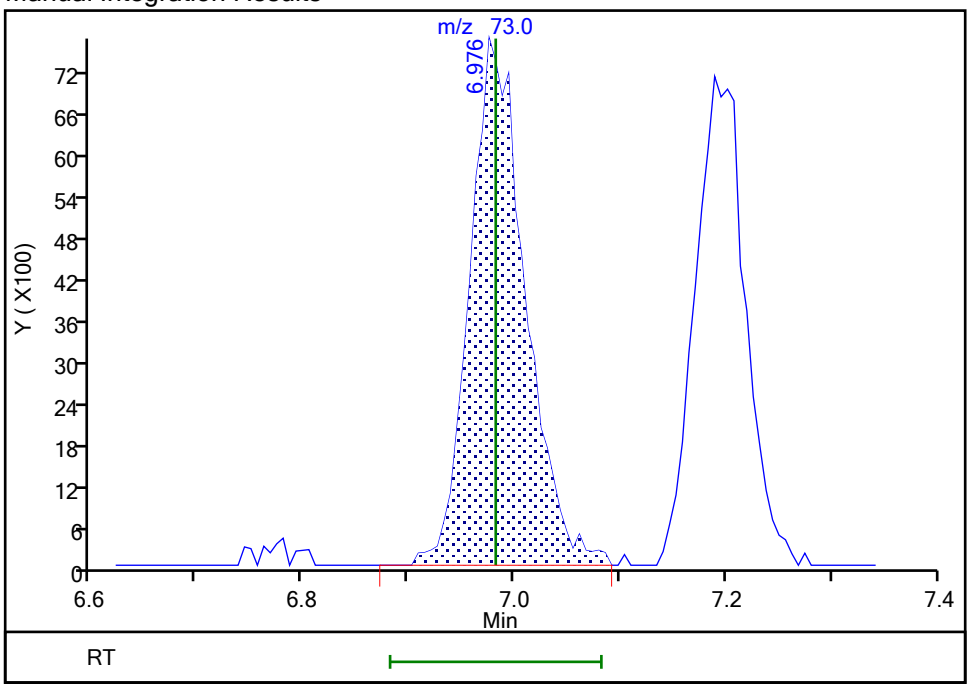
Processing Integration Results

RT: 6.98
Area: 16602
Amount: 0.115126
Amount Units: ug/l



Manual Integration Results

RT: 6.98
Area: 27951
Amount: 0.183510
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:24:54

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

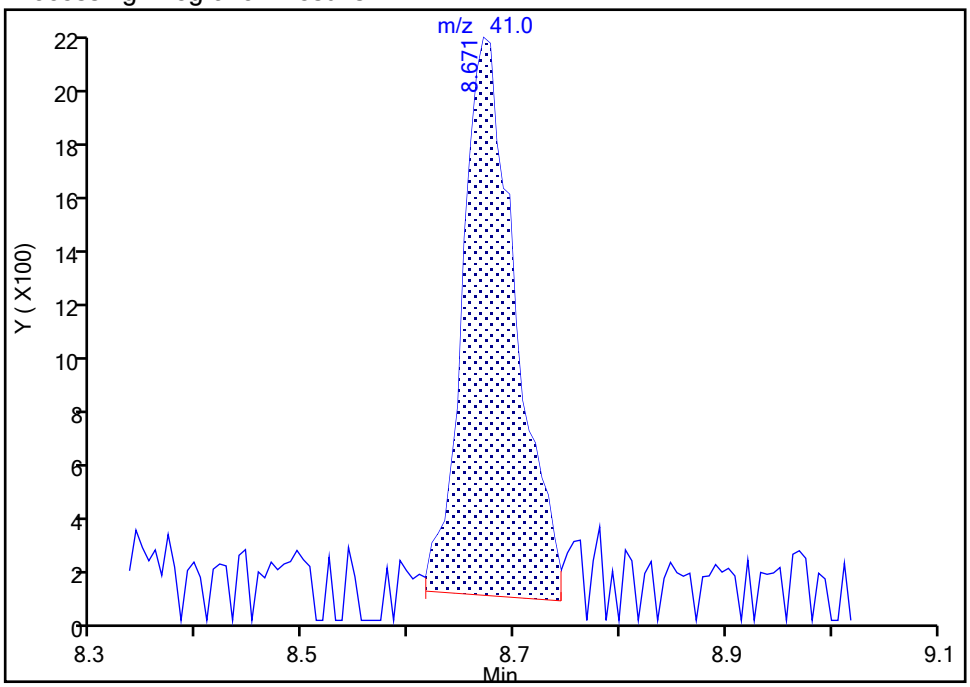
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X12.D
Injection Date: 22-Aug-2022 20:12:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

76 2-Nitropropane, CAS: 79-46-9

Signal: 1

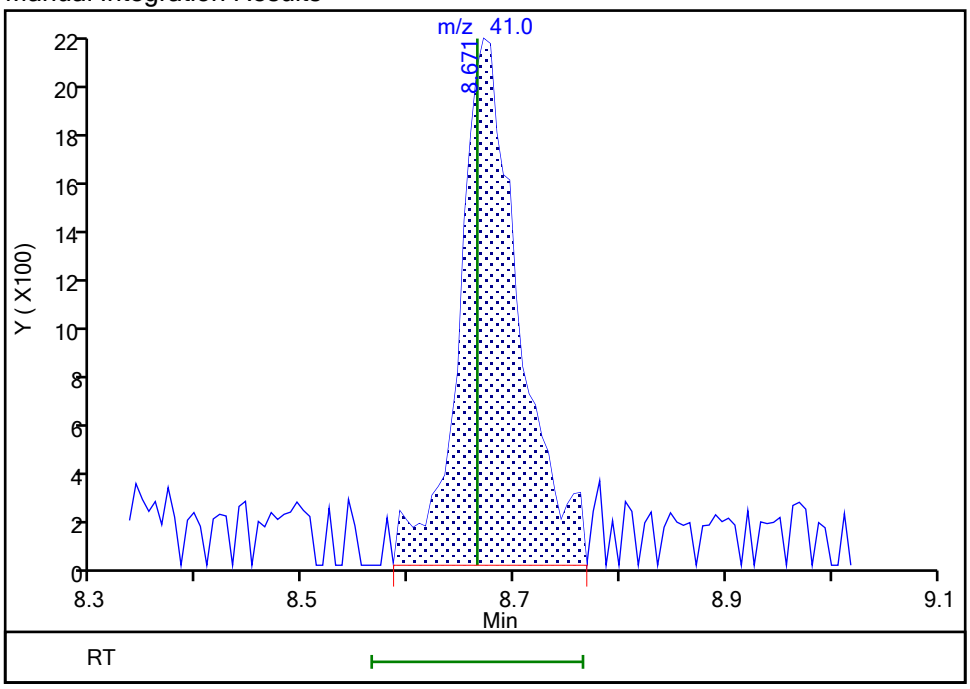
Processing Integration Results

RT: 8.67
Area: 7199
Amount: 0.937410
Amount Units: ug/l



Manual Integration Results

RT: 8.67
Area: 8495
Amount: 1.078970
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:25:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X13.D
Lims ID: IC std2 0.5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 22-Aug-2022 20:34:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-014
Misc. Info.: IC STD.5 LG
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:27 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: DVW2 Date: 23-Aug-2022 09:27:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.751	1.764	-0.013	99	27289	0.5000	0.4816	
5 Chloromethane	50	1.922	1.940	-0.018	99	40512	0.5000	0.5409	
6 Vinyl chloride	62	2.026	2.038	-0.012	97	35160	0.5000	0.5060	
7 Butadiene	39	2.038	2.050	-0.012	92	35671	0.5000	0.4802	
9 Bromomethane	94	2.324	2.331	-0.007	89	23511	0.5000	0.5086	
10 Chloroethane	64	2.391	2.398	-0.007	99	21071	0.5000	0.5217	
11 Dichlorofluoromethane	67	2.605	2.617	-0.012	97	50779	0.5000	0.5443	
12 Trichlorofluoromethane	101	2.666	2.672	-0.006	93	38458	0.5000	0.4879	
13 Pentane	43	2.672	2.678	-0.006	95	33146	0.5000	0.4743	
15 Ethyl ether	59	2.855	2.861	-0.006	93	20000	0.5001	0.4948	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.952	2.959	-0.007	92	31764	0.5000	0.5174	
17 Acrolein	56	3.013	3.013	0.000	99	159412	25.0	26.3	
19 1,1-Dichloroethene	96	3.123	3.135	-0.012	97	23632	0.5000	0.5410	
20 Acetone	43	3.160	3.166	-0.006	92	41957	5.00	6.17	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.172	3.178	-0.006	90	21059	0.5000	0.5119	
22 Iodomethane	142	3.300	3.300	0.000	99	42438	0.5000	0.5278	
23 Isopropyl alcohol	45	3.294	3.318	-0.024	30	18168	10.0	12.1	M
24 Ethyl bromide	108	3.312	3.324	-0.012	97	20645	0.4999	0.5022	M
25 Carbon disulfide	76	3.385	3.391	-0.006	99	70097	0.5000	0.5188	
27 Methyl acetate	43	3.538	3.532	0.006	26	10083	0.5000	0.5029	
28 3-Chloro-1-propene	41	3.531	3.544	-0.013	93	42455	0.5000	0.5271	
29 Methylene Chloride	84	3.702	3.708	-0.006	93	27666	0.5000	0.5341	
* 30 t-Butyl alcohol-d10 (IS)	65	3.739	3.739	0.000	47	132044	50.0	50.0	M
31 2-Methyl-2-propanol	59	3.848	3.849	-0.001	97	33987	10.0	12.3	
32 Acrylonitrile	53	4.019	4.019	0.000	36	13496	1.25	1.32	
33 Methyl tert-butyl ether	73	4.062	4.068	-0.006	88	69506	0.5000	0.5239	
34 trans-1,2-Dichloroethene	96	4.062	4.074	-0.012	98	28906	0.5000	0.5372	
35 Hexane	57	4.464	4.470	-0.006	91	38374	0.5000	0.5316	
36 1,1-Dichloroethane	63	4.714	4.720	-0.006	96	52080	0.5000	0.5257	
38 Isopropyl ether	45	4.781	4.787	-0.006	96	96103	0.5000	0.5277	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Chloro-1,3-butadiene	53	4.830	4.830	0.000	90	40233	0.5000	0.5199	Ma
40 Tert-butyl ethyl ether	59	5.318	5.330	-0.012	98	86577	0.5000	0.5147	
41 2-Butanone (MEK)	43	5.555	5.543	0.012	99	69526	5.00	5.01	
42 cis-1,2-Dichloroethene	96	5.568	5.574	-0.006	82	31743	0.5000	0.5384	
43 2,2-Dichloropropane	77	5.568	5.586	-0.018	60	40087	0.5000	0.5124	
45 Propionitrile	54	5.671	5.635	0.036	98	36131	10.0	10.5	
46 Methacrylonitrile	67	5.854	5.860	-0.006	92	72136	5.00	4.92	
47 Chlorobromomethane	128	5.897	5.909	-0.012	95	13968	0.5000	0.5348	
48 Tetrahydrofuran	71	5.909	5.927	-0.018	57	9681	2.50	2.46	
50 Chloroform	83	6.074	6.074	0.000	93	48580	0.5000	0.5204	
S 51 1,2-Dichloroethene, Total	100				0			1.08	
52 1,1,1-Trichloroethane	97	6.281	6.293	-0.012	41	42559	0.5000	0.5216	
$ 53 Dibromofluoromethane (Surr)	113	6.287	6.293	-0.006	94	463908	10.0	10.0	
54 Cyclohexane	56	6.385	6.385	0.000	91	47497	0.5000	0.5174	
55 Carbon tetrachloride	117	6.494	6.501	-0.007	78	34521	0.5000	0.5039	
56 1,1-Dichloropropene	75	6.506	6.513	-0.007	97	40312	0.5000	0.5286	
57 Isobutyl alcohol	41	6.720	6.708	0.012	93	25955	25.0	26.6	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.744	6.757	-0.013	79	96790	10.0	10.1	
59 Benzene	78	6.769	6.775	-0.006	94	119293	0.5000	0.5220	
61 1,2-Dichloroethane	62	6.848	6.860	-0.012	97	31210	0.5000	0.5391	
63 Tert-amyl methyl ether	73	6.976	6.982	-0.006	99	78561	0.5000	0.5178	
* 64 Fluorobenzene (IS)	96	7.189	7.196	-0.007	99	1985770	10.0	10.0	
65 n-Heptane	43	7.201	7.208	-0.007	92	42342	0.5000	0.5160	
66 n-Butanol	56	7.640	7.622	0.018	90	34033	43.8	43.4	
67 Trichloroethene	95	7.683	7.683	0.000	98	30791	0.5000	0.5256	
68 Methylcyclohexane	83	7.982	7.982	0.000	89	49585	0.5000	0.5089	
69 1,2-Dichloropropane	63	8.018	8.025	-0.007	96	32023	0.5000	0.5274	
70 2-ethoxy-2-methyl butane	87	8.043	8.043	0.000	95	44896	0.5000	0.5072	
71 Methyl methacrylate	69	8.134	8.128	0.006	89	12895	0.5000	0.4823	
72 1,4-Dioxane	88	8.134	8.134	0.000	31	5353	25.0	29.9	M
73 Dibromomethane	93	8.140	8.134	0.006	93	14045	0.5000	0.5185	
75 Dichlorobromomethane	83	8.384	8.384	0.000	99	33992	0.5000	0.5097	
76 2-Nitropropane	41	8.665	8.665	0.000	98	18408	2.50	2.42	
78 1-Bromo-2-chloroethane	63	8.780	8.774	0.006	99	30105	0.5000	0.4971	
79 cis-1,3-Dichloropropene	75	8.951	8.951	0.000	97	44371	0.5000	0.5076	
81 4-Methyl-2-pentanone (MIBK)	43	9.152	9.159	-0.007	97	184444	5.00	4.91	
$ 82 Toluene-d8 (Surr)	98	9.280	9.280	0.000	93	2006585	10.0	9.91	
83 Toluene	92	9.366	9.366	0.000	97	77261	0.5000	0.5172	
84 trans-1,3-Dichloropropene	75	9.664	9.658	0.006	92	34999	0.5000	0.4869	
85 Ethyl methacrylate	69	9.744	9.738	0.006	90	29264	0.5000	0.5036	
86 1,1,2-Trichloroethane	97	9.878	9.872	0.006	90	21374	0.5000	0.5166	
87 Tetrachloroethene	166	9.951	9.951	0.000	97	35433	0.5000	0.5091	
102 1,3-Dichloropropane	76	10.048	10.043	0.006	91	36600	0.5000	0.5122	
S 103 1,3-Dichloropropene, Total	100				0			0.99	
104 2-Hexanone	43	10.122	10.116	0.006	97	123588	5.00	4.65	
106 Chlorodibromomethane	129	10.268	10.268	0.000	90	24859	0.5000	0.5030	
107 Ethylene Dibromide	107	10.378	10.378	0.000	98	20044	0.5000	0.5149	
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	85	1536465	10.0	10.0	
109 1-Chlorohexane	91	10.853	10.853	0.000	96	43798	0.5000	0.5143	
110 Chlorobenzene	112	10.859	10.859	0.000	97	91634	0.5000	0.5201	
111 1,1,1,2-Tetrachloroethane	131	10.951	10.951	0.000	95	29412	0.5000	0.5038	
112 Ethylbenzene	91	10.957	10.957	0.000	98	148239	0.5000	0.5102	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
113 m-Xylene & p-Xylene	106	11.079	11.079	0.000	100	117197	1.00	1.01	
S 114 Xylenes, Total	106				0			1.52	
115 o-Xylene	106	11.414	11.414	0.000	98	59292	0.5000	0.5126	
116 Styrene	104	11.438	11.432	0.006	95	93291	0.5000	0.4928	
117 Bromoform	173	11.591	11.591	0.000	97	14114	0.5000	0.4895	
118 Isopropylbenzene	105	11.725	11.725	0.000	95	149953	0.5000	0.5101	
$ 121 4-Bromofluorobenzene (Surr)	95	11.871	11.871	0.000	92	743073	10.0	9.92	
123 1,1,2,2-Tetrachloroethane	83	11.987	11.987	0.000	78	27538	0.5000	0.5343	
122 Bromobenzene	156	11.987	11.987	0.000	90	38100	0.5000	0.5257	
124 trans-1,4-Dichloro-2-butene	53	12.018	12.012	0.006	91	63969	5.00	5.14	
125 1,2,3-Trichloropropane	110	12.030	12.030	0.000	79	7083	0.5000	0.5254	
126 N-Propylbenzene	91	12.066	12.067	0.000	99	181457	0.5000	0.5223	
127 2-Chlorotoluene	126	12.140	12.140	0.000	97	37785	0.5000	0.5191	
128 1,3,5-Trimethylbenzene	105	12.207	12.207	0.000	95	130841	0.5000	0.5230	
129 4-Chlorotoluene	126	12.237	12.237	0.000	97	39446	0.5000	0.5282	
130 tert-Butylbenzene	134	12.450	12.451	-0.001	93	27675	0.5000	0.5017	
131 Pentachloroethane	167	12.487	12.481	0.006	83	20442	0.5000	0.4905	
132 1,2,4-Trimethylbenzene	105	12.499	12.493	0.006	97	135109	0.5000	0.5200	
133 sec-Butylbenzene	105	12.621	12.621	0.000	94	165597	0.5000	0.5208	
134 1,3-Dichlorobenzene	146	12.719	12.719	0.000	97	77468	0.5000	0.5214	
135 4-Isopropyltoluene	119	12.731	12.731	0.000	97	146197	0.5000	0.5165	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	94	871682	10.0	10.0	
137 1,4-Dichlorobenzene	146	12.792	12.792	0.000	95	79820	0.5000	0.5261	
138 1,2,3-Trimethylbenzene	120	12.804	12.804	0.000	98	62523	0.5000	0.5280	
139 Benzyl chloride	126	12.877	12.877	0.000	98	10497	0.5000	0.4928	
140 n-Butylbenzene	92	13.030	13.030	0.000	97	73222	0.5000	0.5135	
141 1,2-Dichlorobenzene	146	13.060	13.054	0.006	99	71451	0.5000	0.5228	
142 p-Diethylbenzene	119	13.084	13.085	-0.001	86	75145	0.5000	0.5207	
145 1,2-Dibromo-3-Chloropropane	155	13.609	13.609	0.000	86	3750	0.5000	0.5155	
146 1,3,5-Trichlorobenzene	180	13.737	13.737	0.000	97	61945	0.5000	0.5292	
147 1,2,4-Trichlorobenzene	180	14.164	14.164	0.000	94	50765	0.5000	0.5144	
148 Hexachlorobutadiene	225	14.249	14.249	0.000	95	26841	0.5000	0.5267	
149 Naphthalene	128	14.346	14.347	-0.001	97	77218	0.5000	0.4919	
150 1,2,3-Trichlorobenzene	180	14.493	14.493	0.000	95	39407	0.5000	0.4956	
151 2-Methylnaphthalene	142	15.096	15.090	0.006	92	32162	0.5000	0.4340	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00053	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00057	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00109	Amount Added:	2.00	Units: uL	
MSV_HP25_ISSS_00058	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 31-Aug-2022 08:31:27 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X13.D

Injection Date: 22-Aug-2022 20:34:30 Instrument ID: 10193 Operator ID: knk41612

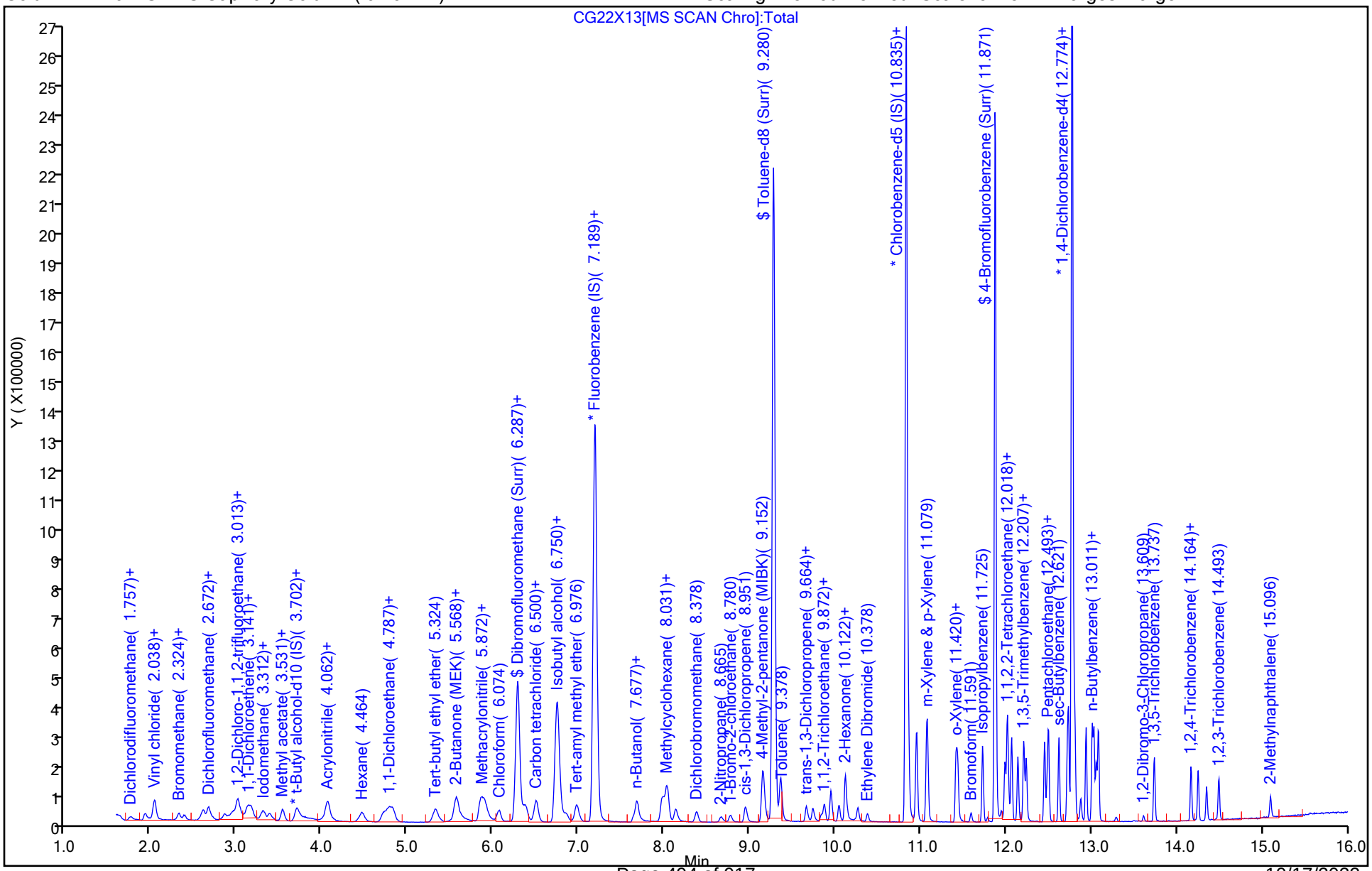
Lims ID: IC std2 0.5 Worklist Smp#: 14

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 13

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

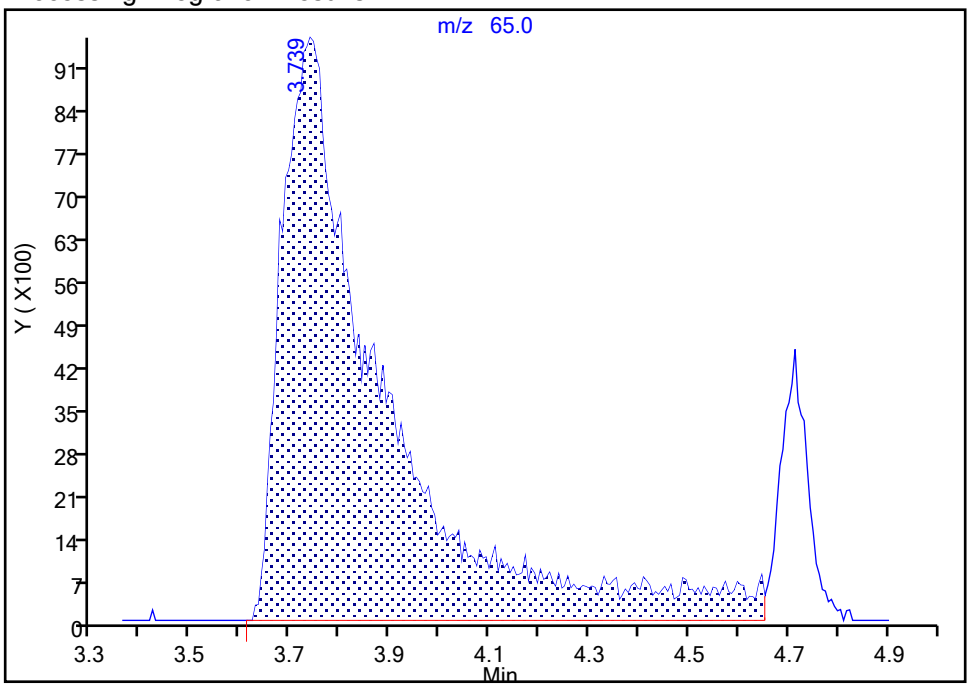
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X13.D
Injection Date: 22-Aug-2022 20:34:30 Instrument ID: 10193
Lims ID: IC std2 0.5
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

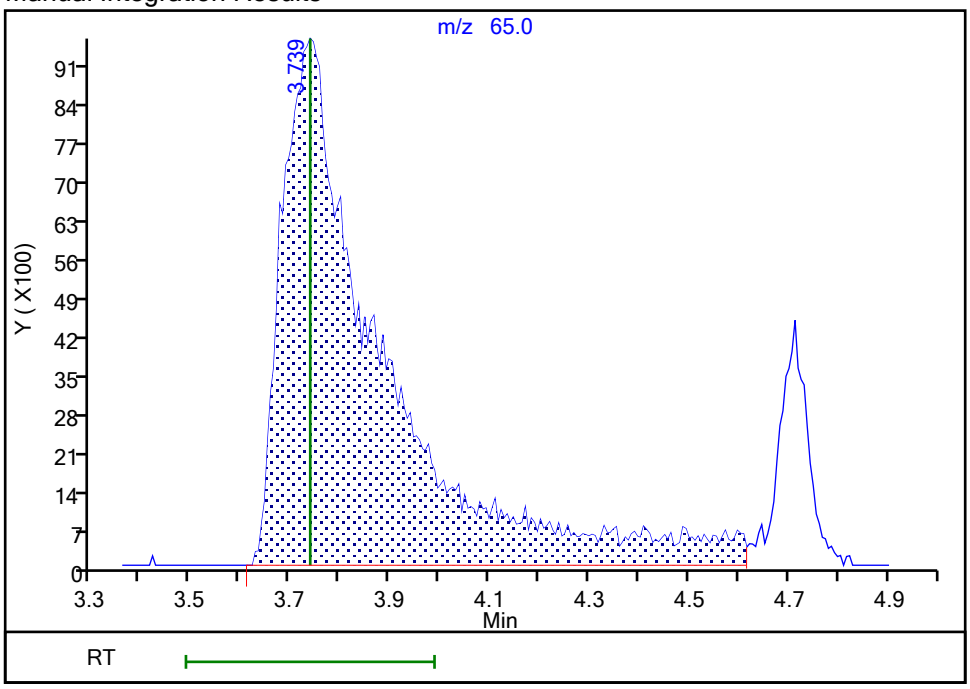
Processing Integration Results

RT: 3.74
Area: 133076
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 3.74
Area: 132044
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:26:45
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

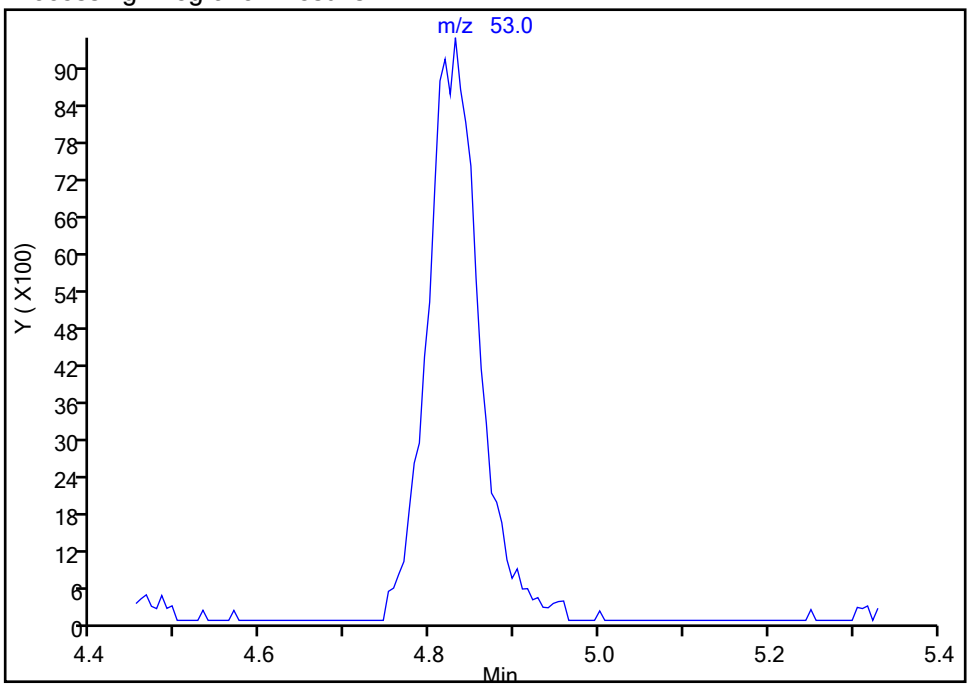
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X13.D
Injection Date: 22-Aug-2022 20:34:30 Instrument ID: 10193
Lims ID: IC std2 0.5
Client ID:
Operator ID: knk41612 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

39 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

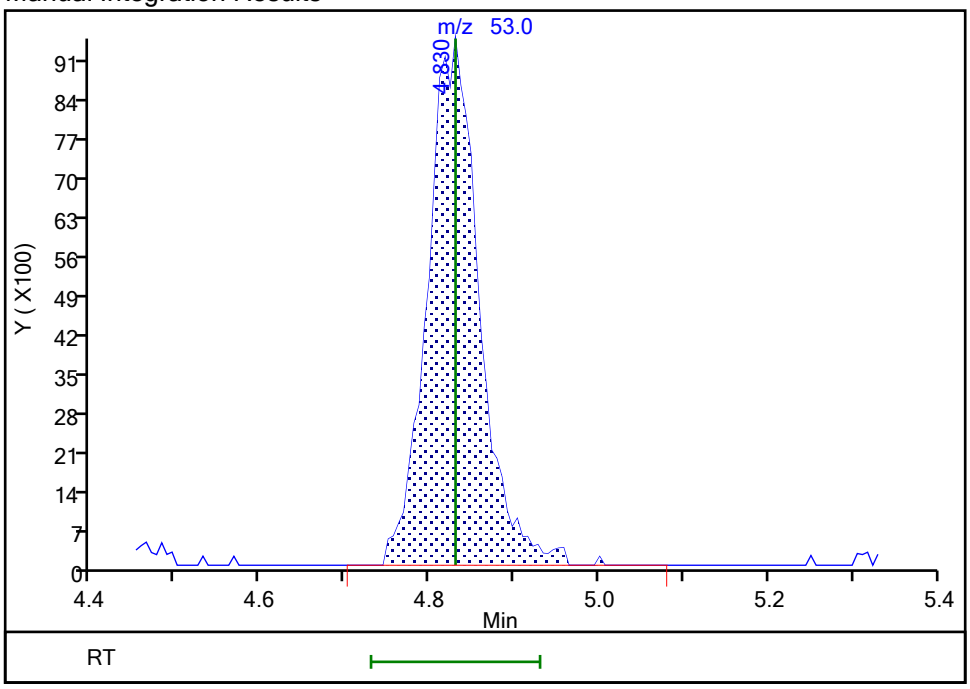
Not Detected
Expected RT: 4.83

Processing Integration Results



Manual Integration Results

RT: 4.83
Area: 40233
Amount: 0.519925
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:26:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

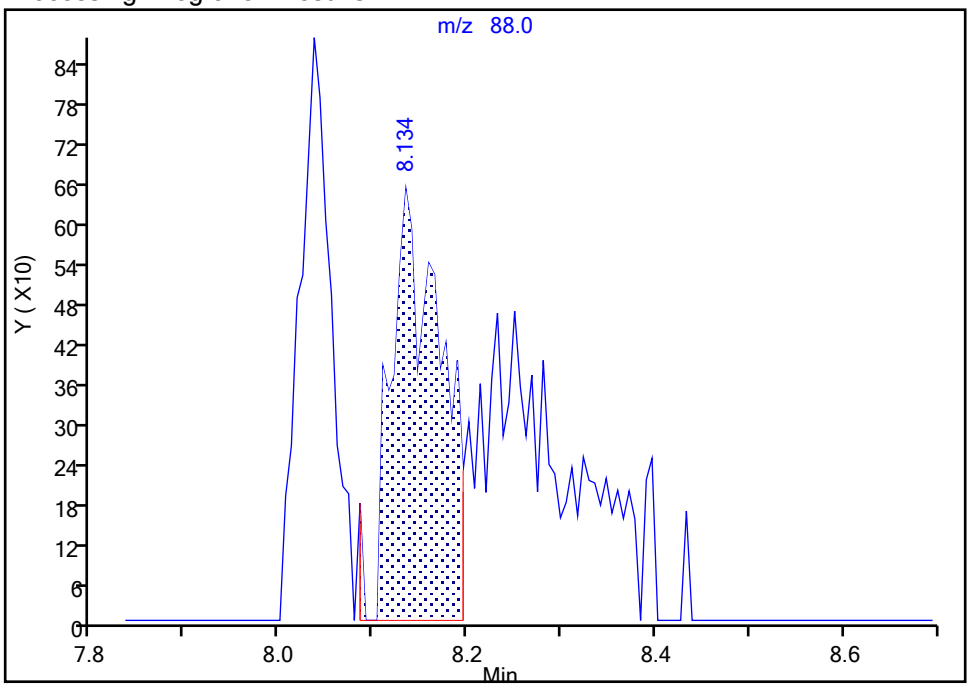
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X13.D				
Injection Date:	22-Aug-2022 20:34:30	Instrument ID:	10193		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

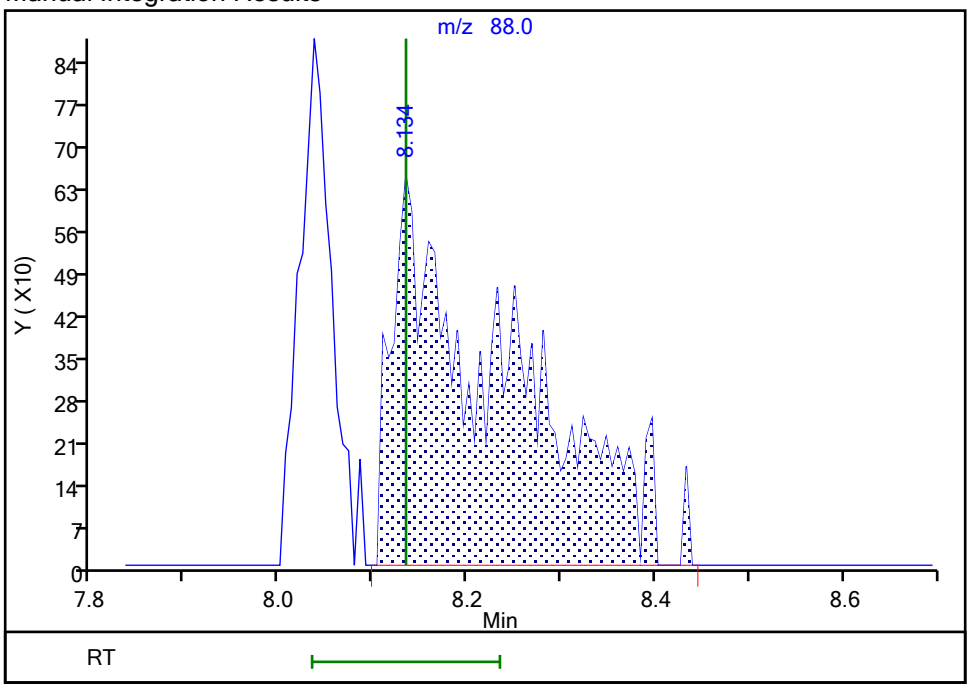
Processing Integration Results

RT: 8.13
Area: 2417
Amount: 19.433552
Amount Units: ug/l



Manual Integration Results

RT: 8.13
Area: 5353
Amount: 29.926719
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:27:16

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X14.D
Lims ID: IC std3 1
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 22-Aug-2022 20:57:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-015
Misc. Info.: IC STD1 LG
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:32 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: DVW2 Date: 23-Aug-2022 09:28:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.758	1.764	-0.006	99	58173	1.00	1.03	
5 Chloromethane	50	1.934	1.940	-0.006	99	76690	1.00	1.03	
6 Vinyl chloride	62	2.032	2.038	-0.006	97	67575	1.00	0.9762	
7 Butadiene	39	2.044	2.050	-0.006	91	73797	1.00	1.00	
9 Bromomethane	94	2.325	2.331	-0.007	90	45642	1.00	0.99	
10 Chloroethane	64	2.385	2.398	-0.013	100	41484	1.00	1.03	
11 Dichlorofluoromethane	67	2.611	2.617	-0.006	97	92839	1.00	1.00	
12 Trichlorofluoromethane	101	2.666	2.672	-0.006	97	78889	1.00	1.00	
13 Pentane	43	2.672	2.678	-0.006	97	67620	1.00	0.9712	
15 Ethyl ether	59	2.861	2.861	0.000	94	39448	1.00	0.9796	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.946	2.959	-0.013	92	60094	1.00	0.9824	
17 Acrolein	56	3.013	3.013	0.000	100	281866	50.0	54.3	
19 1,1-Dichloroethene	96	3.129	3.135	-0.006	98	42670	1.00	0.9804	
20 Acetone	43	3.166	3.166	0.000	86	59190	10.0	10.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.166	3.178	-0.012	91	41348	1.00	1.01	
22 Iodomethane	142	3.294	3.300	-0.006	98	78848	1.00	0.9843	
23 Isopropyl alcohol	45	3.318	3.318	0.000	37	23037	20.0	17.9	
24 Ethyl bromide	108	3.318	3.324	-0.006	98	41770	1.00	1.02	
25 Carbon disulfide	76	3.391	3.391	0.000	100	132499	1.00	0.9843	
27 Methyl acetate	43	3.532	3.532	0.000	33	16317	1.00	0.9497	
28 3-Chloro-1-propene	41	3.538	3.544	-0.006	94	78695	1.00	0.9806	
29 Methylene Chloride	84	3.702	3.708	-0.006	92	51086	1.00	0.9899	
* 30 t-Butyl alcohol-d10 (IS)	65	3.751	3.739	0.012	89	113154	50.0	50.0	
31 2-Methyl-2-propanol	59	3.830	3.849	-0.019	99	55542	20.0	23.6	
32 Acrylonitrile	53	4.038	4.019	0.019	29	24651	2.50	2.81	
33 Methyl tert-butyl ether	73	4.062	4.068	-0.006	90	129375	1.00	0.9788	
34 trans-1,2-Dichloroethene	96	4.068	4.074	-0.006	98	53191	1.00	0.99	
35 Hexane	57	4.464	4.470	-0.006	93	70201	1.00	0.9760	
36 1,1-Dichloroethane	63	4.720	4.720	0.000	96	98507	1.00	1.00	
38 Isopropyl ether	45	4.775	4.787	-0.012	95	179263	1.00	0.9879	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Chloro-1,3-butadiene	53	4.824	4.830	-0.006	90	76284	1.00	0.9894	
40 Tert-butyl ethyl ether	59	5.324	5.330	-0.006	98	166424	1.00	0.99	
41 2-Butanone (MEK)	43	5.549	5.543	0.006	99	128408	10.0	10.8	
42 cis-1,2-Dichloroethene	96	5.568	5.574	-0.006	81	58902	1.00	1.00	
43 2,2-Dichloropropane	77	5.580	5.586	-0.006	65	76415	1.00	0.9803	
45 Propionitrile	54	5.641	5.635	0.006	98	62435	20.0	21.1	
46 Methacrylonitrile	67	5.848	5.860	-0.012	92	137272	10.0	10.9	
47 Chlorobromomethane	128	5.909	5.909	0.000	95	25966	1.00	1.00	
48 Tetrahydrofuran	71	5.921	5.927	-0.006	77	18506	5.00	5.49	a
50 Chloroform	83	6.068	6.074	-0.006	93	93605	1.00	1.01	
S 51 1,2-Dichloroethene, Total	100				0			1.99	
52 1,1,1-Trichloroethane	97	6.281	6.293	-0.012	96	82747	1.00	1.02	
$ 53 Dibromofluoromethane (Surr)	113	6.293	6.293	0.000	94	463253	10.0	10.0	
54 Cyclohexane	56	6.385	6.385	0.000	91	90500	1.00	0.9894	
55 Carbon tetrachloride	117	6.494	6.501	-0.007	83	67141	1.00	0.9837	
56 1,1-Dichloropropene	75	6.507	6.513	-0.006	96	73903	1.00	0.9726	
57 Isobutyl alcohol	41	6.714	6.708	0.006	95	43717	50.0	52.2	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.750	6.757	-0.007	93	94021	10.0	9.89	
59 Benzene	78	6.769	6.775	-0.006	94	225053	1.00	0.9885	
61 1,2-Dichloroethane	62	6.854	6.860	-0.006	97	57929	1.00	1.00	
63 Tert-amyl methyl ether	73	6.982	6.982	0.000	99	150940	1.00	1.00	
* 64 Fluorobenzene (IS)	96	7.189	7.196	-0.007	99	1978464	10.0	10.0	
65 n-Heptane	43	7.208	7.208	0.000	94	79351	1.00	0.9706	
66 n-Butanol	56	7.634	7.622	0.012	91	61837	87.5	92.1	
67 Trichloroethene	95	7.677	7.683	-0.006	97	56668	1.00	0.9708	
68 Methylcyclohexane	83	7.982	7.982	0.000	90	95136	1.00	0.9801	
69 1,2-Dichloropropane	63	8.019	8.025	-0.006	97	60237	1.00	1.00	
70 2-ethoxy-2-methyl butane	87	8.043	8.043	0.000	92	85851	1.00	0.9735	
71 Methyl methacrylate	69	8.134	8.128	0.006	92	24944	1.00	1.09	
72 1,4-Dioxane	88	8.147	8.134	0.013	32	7798	50.0	48.2	M
73 Dibromomethane	93	8.134	8.134	0.000	94	26280	1.00	0.9738	
75 Dichlorobromomethane	83	8.378	8.384	-0.006	99	65882	1.00	0.99	
76 2-Nitropropane	41	8.671	8.665	0.006	98	31793	5.00	4.87	
78 1-Bromo-2-chloroethane	63	8.774	8.774	0.000	98	60548	1.00	1.00	
79 cis-1,3-Dichloropropene	75	8.951	8.951	0.000	97	83617	1.00	0.9600	
81 4-Methyl-2-pentanone (MIBK)	43	9.152	9.159	-0.007	97	342665	10.0	10.7	
$ 82 Toluene-d8 (Surr)	98	9.280	9.280	0.000	93	1995655	10.0	10.0	
83 Toluene	92	9.366	9.366	0.000	98	146835	1.00	1.00	
84 trans-1,3-Dichloropropene	75	9.665	9.658	0.007	92	69149	1.00	0.9788	
85 Ethyl methacrylate	69	9.738	9.738	0.000	90	54040	1.00	0.9462	
86 1,1,2-Trichloroethane	97	9.872	9.872	0.000	90	40627	1.00	1.00	
87 Tetrachloroethene	166	9.951	9.951	0.000	97	67675	1.00	0.9892	
102 1,3-Dichloropropane	76	10.043	10.043	0.001	90	69965	1.00	1.00	
S 103 1,3-Dichloropropene, Total	100				0			1.94	
104 2-Hexanone	43	10.116	10.116	0.000	97	247070	10.0	10.8	
106 Chlorodibromomethane	129	10.268	10.268	0.000	90	46481	1.00	0.9568	
107 Ethylene Dibromide	107	10.378	10.378	0.000	99	37064	1.00	0.9686	
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	85	1510198	10.0	10.0	
109 1-Chlorohexane	91	10.853	10.853	0.000	97	81147	1.00	0.9695	
110 Chlorobenzene	112	10.859	10.859	0.000	96	173193	1.00	1.00	
111 1,1,1,2-Tetrachloroethane	131	10.951	10.951	0.000	96	55325	1.00	0.9642	
112 Ethylbenzene	91	10.957	10.957	0.000	98	282580	1.00	0.9896	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
113 m-Xylene & p-Xylene	106	11.079	11.079	0.000	100	230360	2.00	2.01	
S 114 Xylenes, Total	106				0			3.01	
115 o-Xylene	106	11.414	11.414	0.000	96	113031	1.00	0.99	
116 Styrene	104	11.432	11.432	0.000	94	180116	1.00	0.9680	
117 Bromoform	173	11.591	11.591	0.000	98	26326	1.00	0.9289	
118 Isopropylbenzene	105	11.725	11.725	0.000	95	289388	1.00	1.00	
$ 121 4-Bromofluorobenzene (Surr)	95	11.871	11.871	0.000	92	737027	10.0	10.0	
123 1,1,2,2-Tetrachloroethane	83	11.987	11.987	0.000	78	51538	1.00	1.01	
122 Bromobenzene	156	11.987	11.987	0.000	91	71493	1.00	1.00	
124 trans-1,4-Dichloro-2-butene	53	12.018	12.012	0.006	92	120833	10.0	9.83	
125 1,2,3-Trichloropropane	110	12.030	12.030	0.000	78	13537	1.00	1.02	
126 N-Propylbenzene	91	12.067	12.067	0.000	99	348619	1.00	1.02	
127 2-Chlorotoluene	126	12.140	12.140	0.000	97	72794	1.00	1.01	
128 1,3,5-Trimethylbenzene	105	12.207	12.207	0.000	94	246256	1.00	1.00	
129 4-Chlorotoluene	126	12.237	12.237	0.000	97	73677	1.00	1.00	
130 tert-Butylbenzene	134	12.451	12.451	0.000	93	54084	1.00	0.99	
131 Pentachloroethane	167	12.481	12.481	0.000	87	39851	1.00	0.9687	
132 1,2,4-Trimethylbenzene	105	12.499	12.493	0.006	96	258595	1.00	1.01	
133 sec-Butylbenzene	105	12.621	12.621	0.000	94	319377	1.00	1.02	
134 1,3-Dichlorobenzene	146	12.719	12.719	0.000	98	147649	1.00	1.01	
135 4-Isopropyltoluene	119	12.731	12.731	0.000	97	278362	1.00	1.00	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	94	860455	10.0	10.0	
137 1,4-Dichlorobenzene	146	12.792	12.792	0.000	96	150564	1.00	1.01	
138 1,2,3-Trimethylbenzene	120	12.804	12.804	0.000	98	117073	1.00	1.00	
139 Benzyl chloride	126	12.877	12.877	0.000	98	19724	1.00	0.9381	
140 n-Butylbenzene	92	13.030	13.030	0.000	98	141416	1.00	1.00	
141 1,2-Dichlorobenzene	146	13.054	13.054	0.000	99	135919	1.00	1.01	
142 p-Diethylbenzene	119	13.085	13.085	0.000	86	142120	1.00	1.00	
145 1,2-Dibromo-3-Chloropropane	155	13.609	13.609	0.000	85	6274	1.00	0.8738	
146 1,3,5-Trichlorobenzene	180	13.737	13.737	0.000	98	114715	1.00	0.99	
147 1,2,4-Trichlorobenzene	180	14.164	14.164	0.000	94	94997	1.00	0.9751	
148 Hexachlorobutadiene	225	14.249	14.249	0.000	97	49990	1.00	0.99	
149 Naphthalene	128	14.347	14.347	0.000	97	147337	1.00	0.9508	
150 1,2,3-Trichlorobenzene	180	14.493	14.493	0.000	96	76007	1.00	0.9684	
151 2-Methylnaphthalene	142	15.096	15.090	0.006	93	63748	1.00	0.8714	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00053	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00057	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00109	Amount Added:	2.00	Units: uL	
MSV_HP25_ISSS_00058	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 31-Aug-2022 08:31:33 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X14.D

Injection Date: 22-Aug-2022 20:57:30 Instrument ID: 10193 Operator ID: knk41612

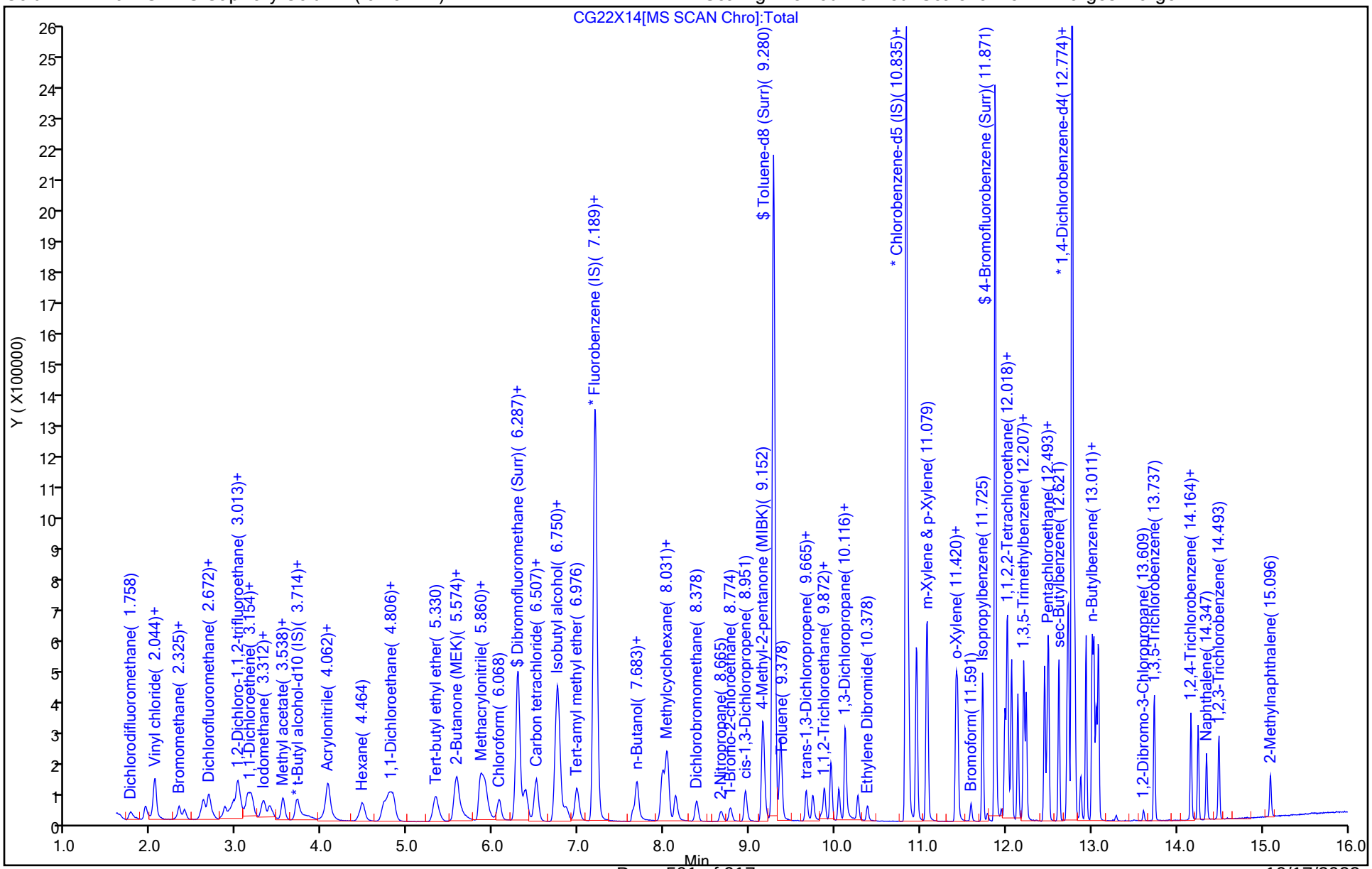
Lims ID: IC std3 1 Worklist Smp#: 15

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 14

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

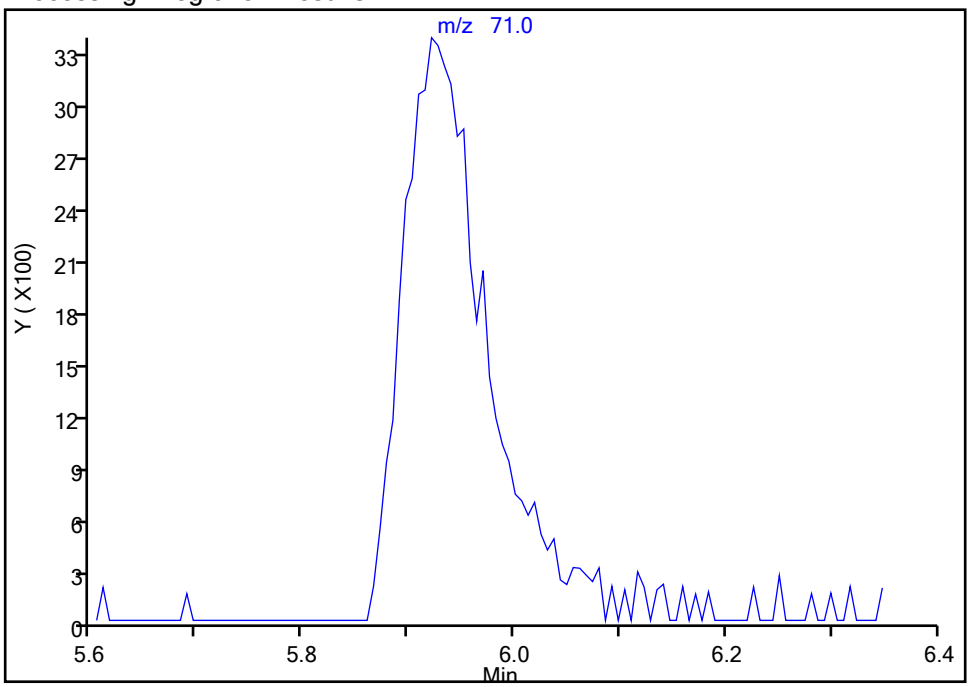
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X14.D
Injection Date: 22-Aug-2022 20:57:30 Instrument ID: 10193
Lims ID: IC std3 1
Client ID:
Operator ID: knk41612 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

48 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

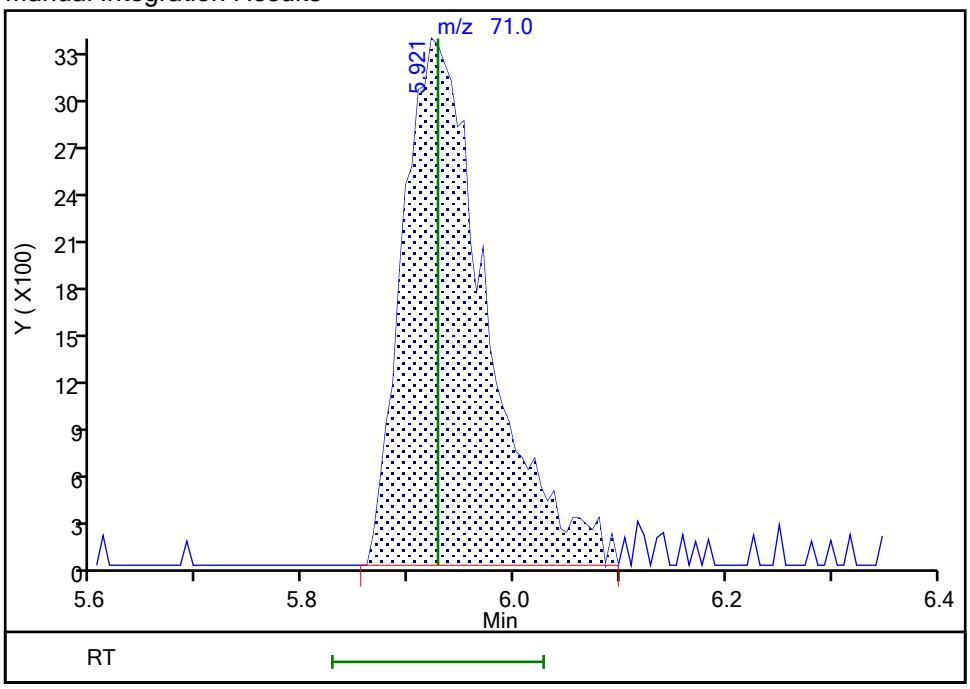
Not Detected
Expected RT: 5.93

Processing Integration Results



Manual Integration Results

RT: 5.92
Area: 18506
Amount: 5.490850
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:28:17
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

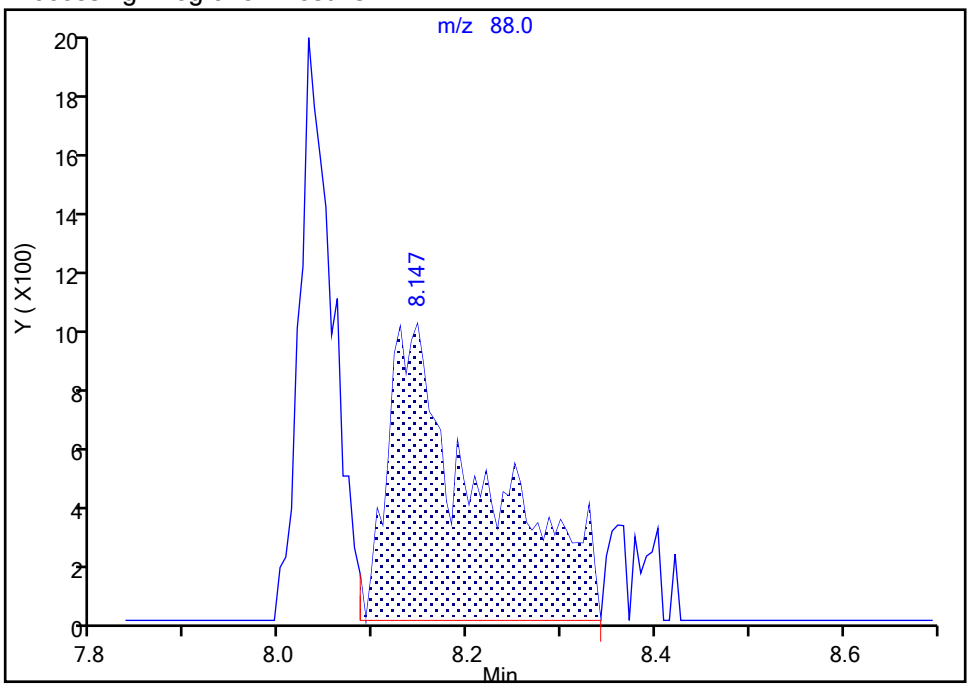
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X14.D
Injection Date: 22-Aug-2022 20:57:30 Instrument ID: 10193
Lims ID: IC std3 1
Client ID:
Operator ID: knk41612 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

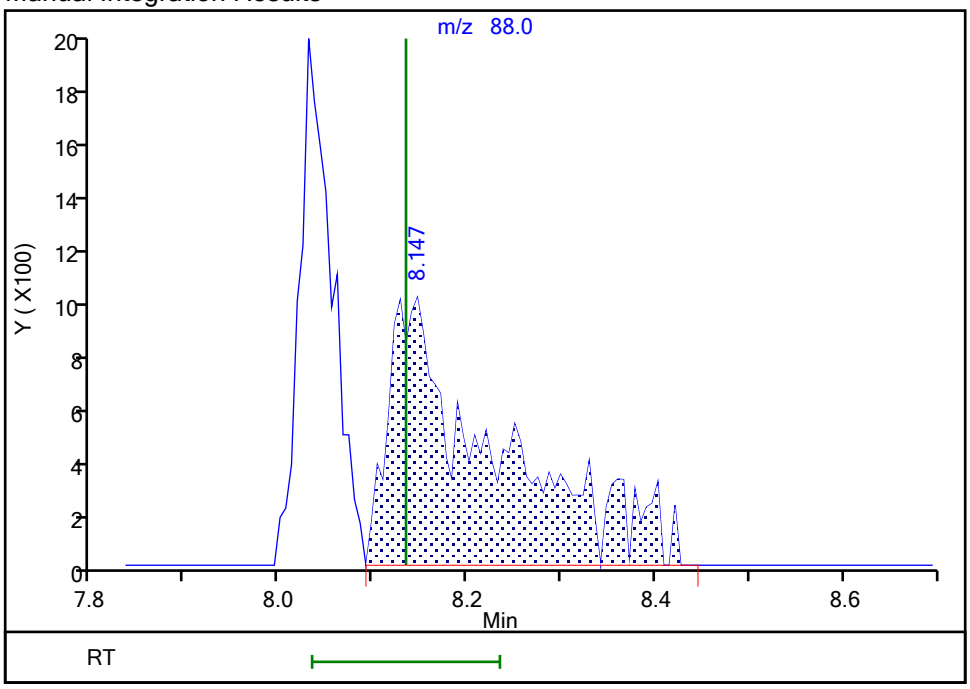
Processing Integration Results

RT: 8.15
Area: 6917
Amount: 47.271840
Amount Units: ug/l



Manual Integration Results

RT: 8.15
Area: 7798
Amount: 48.207501
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:28:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X15.D
Lims ID: IC std4 2
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 22-Aug-2022 21:19:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-016
Misc. Info.: IC STD2 LG
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:38 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: DVW2 Date: 23-Aug-2022 07:39:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.764	1.764	0.000	99	117468	2.00	2.08	
5 Chloromethane	50	1.940	1.940	0.000	99	150217	2.00	2.02	
6 Vinyl chloride	62	2.038	2.038	0.000	98	143251	2.00	2.07	
7 Butadiene	39	2.050	2.050	0.000	91	152389	2.00	2.06	
9 Bromomethane	94	2.331	2.331	0.000	91	93538	2.00	2.03	
10 Chloroethane	64	2.391	2.391	0.000	99	81164	2.00	2.02	
11 Dichlorofluoromethane	67	2.611	2.611	0.000	97	187748	2.00	2.02	
12 Trichlorofluoromethane	101	2.672	2.672	0.000	97	164716	2.00	2.10	
13 Pentane	43	2.678	2.678	0.000	98	142039	2.00	2.04	
15 Ethyl ether	59	2.867	2.867	0.000	92	84873	2.00	2.11	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.958	2.958	0.000	92	122486	2.00	2.00	
17 Acrolein	56	3.013	3.013	0.000	99	584522	100.0	108.4	
19 1,1-Dichloroethene	96	3.135	3.135	0.000	97	86755	2.00	2.00	
20 Acetone	43	3.166	3.166	0.000	95	122838	20.0	20.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.178	3.178	0.000	91	84297	2.00	2.06	
22 Iodomethane	142	3.306	3.306	0.000	97	163985	2.00	2.05	
23 Isopropyl alcohol	45	3.300	3.300	0.000	30	51494	40.0	38.5	
24 Ethyl bromide	108	3.330	3.330	0.000	97	83677	2.00	2.05	
25 Carbon disulfide	76	3.397	3.397	0.000	100	273138	2.00	2.03	
27 Methyl acetate	43	3.538	3.538	0.000	24	42677	2.00	2.39	M
28 3-Chloro-1-propene	41	3.550	3.550	0.000	94	162533	2.00	2.03	
29 Methylene Chloride	84	3.708	3.708	0.000	96	104369	2.00	2.02	
* 30 t-Butyl alcohol-d10 (IS)	65	3.751	3.751	0.000	90	117656	50.0	50.0	
31 2-Methyl-2-propanol	59	3.873	3.873	0.000	99	99960	40.0	40.8	
32 Acrylonitrile	53	4.031	4.031	0.000	96	48561	5.00	5.32	
33 Methyl tert-butyl ether	73	4.068	4.068	0.000	94	272217	2.00	2.06	
34 trans-1,2-Dichloroethene	96	4.068	4.068	0.000	98	109559	2.00	2.05	
35 Hexane	57	4.476	4.476	0.000	93	140977	2.00	1.96	
36 1,1-Dichloroethane	63	4.720	4.720	0.000	96	203004	2.00	2.06	
38 Isopropyl ether	45	4.793	4.793	0.000	96	370270	2.00	2.04	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Chloro-1,3-butadiene	53	4.836	4.836	0.000	90	154635	2.00	2.01	
40 Tert-butyl ethyl ether	59	5.330	5.330	0.000	98	341793	2.00	2.04	
41 2-Butanone (MEK)	43	5.549	5.549	0.000	100	268068	20.0	21.7	
42 cis-1,2-Dichloroethene	96	5.574	5.574	0.000	82	118805	2.00	2.02	
43 2,2-Dichloropropane	77	5.580	5.580	0.000	61	164164	2.00	2.11	
45 Propionitrile	54	5.653	5.653	0.000	99	128191	40.0	41.7	
46 Methacrylonitrile	67	5.860	5.860	0.000	92	286005	20.0	21.9	
47 Chlorobromomethane	128	5.909	5.909	0.000	96	53176	2.00	2.05	
48 Tetrahydrofuran	71	5.915	5.915	0.000	64	36440	10.0	10.4	
50 Chloroform	83	6.074	6.074	0.000	93	188148	2.00	2.03	
S 51 1,2-Dichloroethene, Total	100				0			4.07	
52 1,1,1-Trichloroethane	97	6.287	6.287	0.000	55	166622	2.00	2.05	
$ 53 Dibromofluoromethane (Surr)	113	6.293	6.293	0.000	94	458737	10.0	9.93	
54 Cyclohexane	56	6.379	6.379	0.000	91	184387	2.00	2.02	
55 Carbon tetrachloride	117	6.500	6.500	0.000	96	139848	2.00	2.05	
56 1,1-Dichloropropene	75	6.513	6.513	0.000	98	152069	2.00	2.00	
57 Isobutyl alcohol	41	6.714	6.714	0.000	94	86391	100.0	99.3	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.744	6.744	0.000	81	93896	10.0	9.89	
59 Benzene	78	6.775	6.775	0.000	96	460268	2.00	2.02	
61 1,2-Dichloroethane	62	6.854	6.854	0.000	97	117609	2.00	2.04	
63 Tert-amyl methyl ether	73	6.982	6.982	0.000	99	310776	2.00	2.06	
* 64 Fluorobenzene (IS)	96	7.195	7.195	0.000	98	1976130	10.0	10.0	
65 n-Heptane	43	7.208	7.208	0.000	93	163653	2.00	2.00	
66 n-Butanol	56	7.628	7.628	0.000	88	120790	175.0	173.1	
67 Trichloroethene	95	7.683	7.683	0.000	98	121006	2.00	2.08	
68 Methylcyclohexane	83	7.982	7.982	0.000	91	196076	2.00	2.02	
69 1,2-Dichloropropane	63	8.025	8.025	0.000	97	124387	2.00	2.06	
70 2-ethoxy-2-methyl butane	87	8.043	8.043	0.000	93	179004	2.00	2.03	
71 Methyl methacrylate	69	8.128	8.128	0.000	92	51296	2.00	2.15	
72 1,4-Dioxane	88	8.122	8.122	0.000	29	17348	100.0	99.4	
73 Dibromomethane	93	8.134	8.134	0.000	93	55503	2.00	2.06	
75 Dichlorobromomethane	83	8.378	8.378	0.000	99	137205	2.00	2.07	
76 2-Nitropropane	41	8.665	8.665	0.000	99	69212	10.0	10.2	
78 1-Bromo-2-chloroethane	63	8.774	8.774	0.000	98	123589	2.00	2.05	
79 cis-1,3-Dichloropropene	75	8.951	8.951	0.000	97	176574	2.00	2.03	
81 4-Methyl-2-pentanone (MIBK)	43	9.158	9.158	0.000	97	721350	20.0	21.6	
$ 82 Toluene-d8 (Surr)	98	9.280	9.280	0.000	93	1994377	10.0	10.0	
83 Toluene	92	9.366	9.366	0.000	98	299255	2.00	2.04	
84 trans-1,3-Dichloropropene	75	9.664	9.664	0.000	92	145243	2.00	2.05	
85 Ethyl methacrylate	69	9.738	9.738	0.000	90	116133	2.00	2.03	
86 1,1,2-Trichloroethane	97	9.872	9.872	0.000	89	84210	2.00	2.07	
87 Tetrachloroethene	166	9.951	9.951	0.000	97	140565	2.00	2.05	
102 1,3-Dichloropropane	76	10.042	10.042	0.000	90	145113	2.00	2.07	
S 103 1,3-Dichloropropene, Total	100				0			4.08	
104 2-Hexanone	43	10.116	10.116	0.000	97	510532	20.0	21.5	
106 Chlorodibromomethane	129	10.268	10.268	0.000	90	98443	2.00	2.03	
107 Ethylene Dibromide	107	10.378	10.378	0.000	99	79714	2.00	2.08	
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	85	1510978	10.0	10.0	
109 1-Chlorohexane	91	10.853	10.853	0.000	98	167760	2.00	2.00	
110 Chlorobenzene	112	10.859	10.859	0.000	97	352259	2.00	2.03	
111 1,1,1,2-Tetrachloroethane	131	10.951	10.951	0.000	96	118338	2.00	2.06	
112 Ethylbenzene	91	10.951	10.951	0.000	98	586626	2.00	2.05	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
113 m-Xylene & p-Xylene	106	11.079	11.079	0.000	100	469217	4.00	4.10	
S 114 Xylenes, Total	106				0			6.13	
115 o-Xylene	106	11.414	11.414	0.000	97	231506	2.00	2.04	
116 Styrene	104	11.432	11.432	0.000	95	384630	2.00	2.07	
117 Bromoform	173	11.591	11.591	0.000	97	57517	2.00	2.03	
118 Isopropylbenzene	105	11.725	11.725	0.000	95	589633	2.00	2.04	
$ 121 4-Bromofluorobenzene (Surr)	95	11.871	11.871	0.000	93	735025	10.0	9.98	
123 1,1,2,2-Tetrachloroethane	83	11.987	11.987	0.000	78	106640	2.00	2.07	
122 Bromobenzene	156	11.987	11.987	0.000	92	148658	2.00	2.05	
124 trans-1,4-Dichloro-2-butene	53	12.012	12.012	0.000	92	257721	20.0	20.7	
125 1,2,3-Trichloropropane	110	12.030	12.030	0.000	77	27317	2.00	2.02	
126 N-Propylbenzene	91	12.066	12.066	0.000	98	719215	2.00	2.07	
127 2-Chlorotoluene	126	12.140	12.140	0.000	97	148112	2.00	2.03	
128 1,3,5-Trimethylbenzene	105	12.207	12.207	0.000	94	514383	2.00	2.05	
129 4-Chlorotoluene	126	12.237	12.237	0.000	97	151548	2.00	2.03	
130 tert-Butylbenzene	134	12.451	12.451	0.000	93	111261	2.00	2.01	
131 Pentachloroethane	167	12.481	12.481	0.000	93	83992	2.00	2.01	
132 1,2,4-Trimethylbenzene	105	12.499	12.499	0.000	97	533692	2.00	2.05	
133 sec-Butylbenzene	105	12.621	12.621	0.000	94	653385	2.00	2.05	
134 1,3-Dichlorobenzene	146	12.719	12.719	0.000	98	304220	2.00	2.04	
135 4-Isopropyltoluene	119	12.731	12.731	0.000	97	580567	2.00	2.05	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	93	872795	10.0	10.0	
137 1,4-Dichlorobenzene	146	12.792	12.792	0.000	96	308250	2.00	2.03	
138 1,2,3-Trimethylbenzene	120	12.804	12.804	0.000	98	241995	2.00	2.04	
139 Benzyl chloride	126	12.877	12.877	0.000	98	43555	2.00	2.04	
140 n-Butylbenzene	92	13.030	13.030	0.000	97	292535	2.00	2.05	
141 1,2-Dichlorobenzene	146	13.054	13.054	0.000	99	280876	2.00	2.05	
142 p-Diethylbenzene	119	13.085	13.085	0.000	86	292366	2.00	2.02	
145 1,2-Dibromo-3-Chloropropane	155	13.609	13.609	0.000	88	14627	2.00	2.01	
146 1,3,5-Trichlorobenzene	180	13.737	13.737	0.000	97	239094	2.00	2.04	
147 1,2,4-Trichlorobenzene	180	14.164	14.164	0.000	94	200037	2.00	2.02	
148 Hexachlorobutadiene	225	14.249	14.249	0.000	96	104110	2.00	2.04	
149 Naphthalene	128	14.346	14.346	0.000	96	315886	2.00	2.01	
150 1,2,3-Trichlorobenzene	180	14.493	14.493	0.000	96	161145	2.00	2.02	
151 2-Methylnaphthalene	142	15.096	15.096	0.000	93	146301	2.00	1.97	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00053	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00057	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00109	Amount Added:	2.00	Units: uL	
MSV_HP25_ISSS_00058	Amount Added:	1.00	Units: uL	Run Reagent

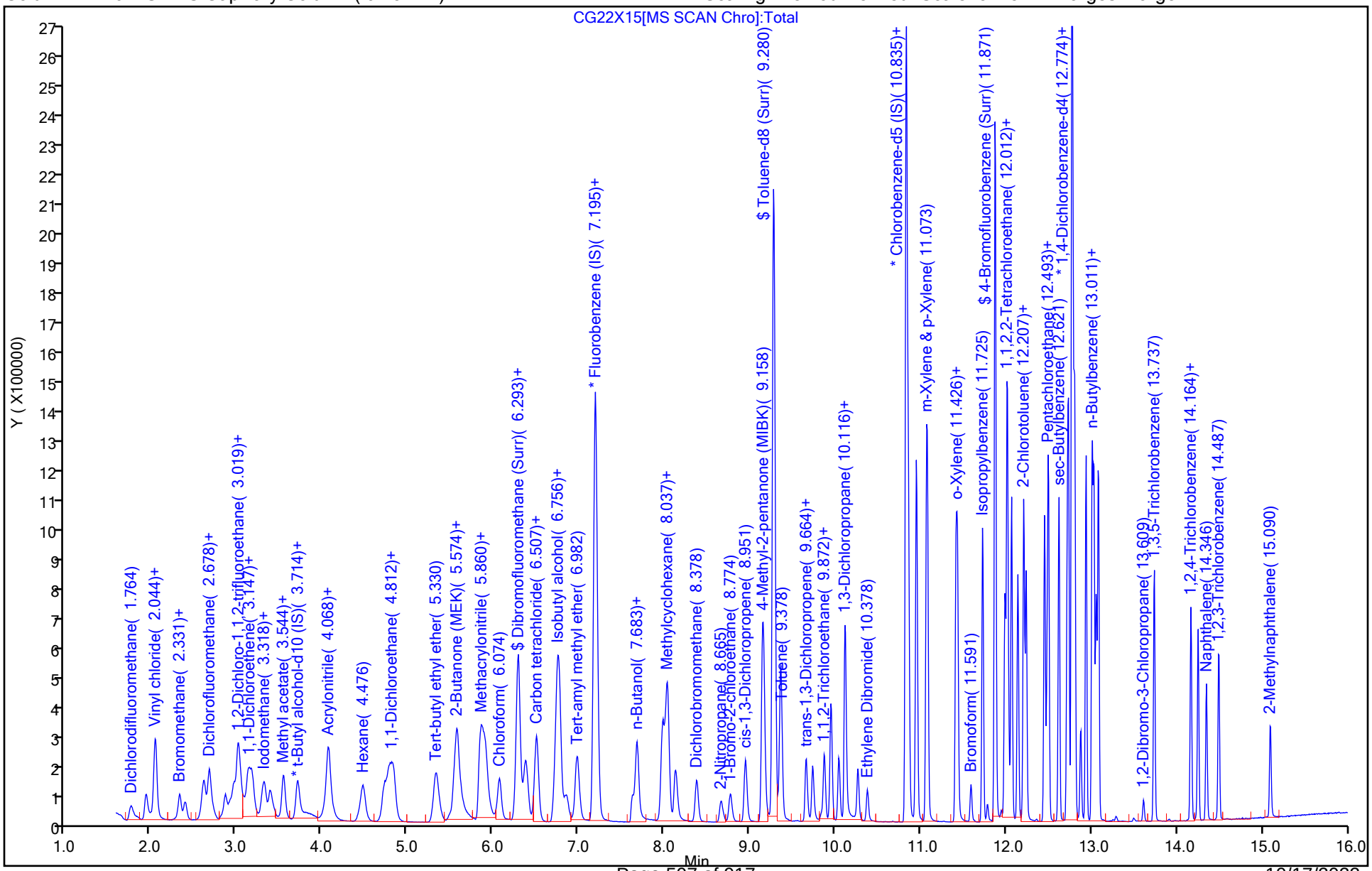
Report Date: 31-Aug-2022 08:31:38 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X15.D

Injection Date:	22-Aug-2022 21:19:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC std4 2			Worklist Smp#:	16
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

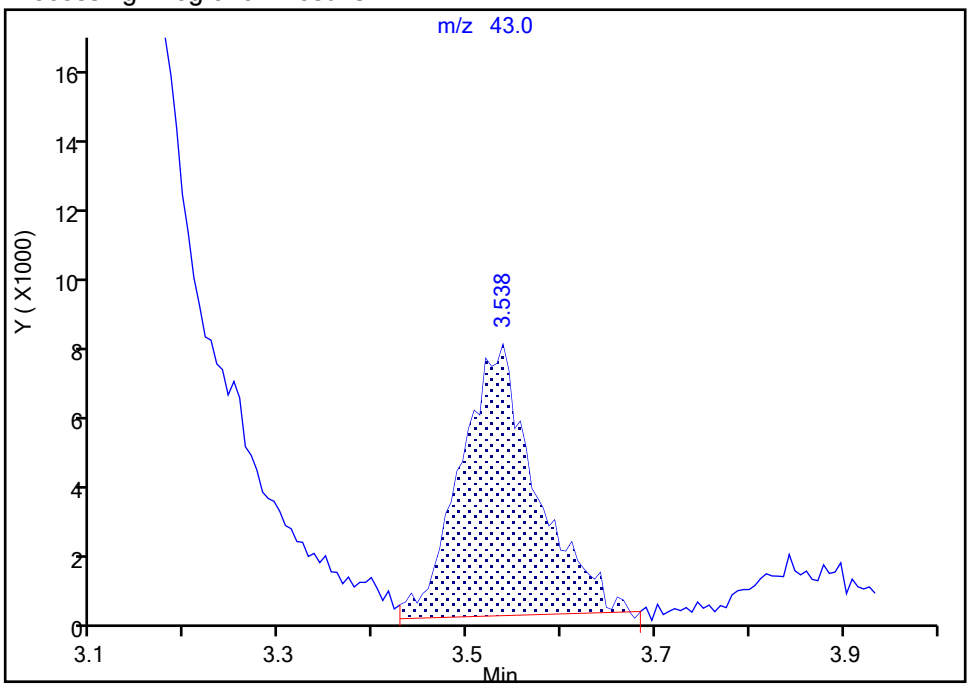
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X15.D
Injection Date: 22-Aug-2022 21:19:30 Instrument ID: 10193
Lims ID: IC std4 2
Client ID:
Operator ID: knk41612 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

27 Methyl acetate, CAS: 79-20-9

Signal: 1

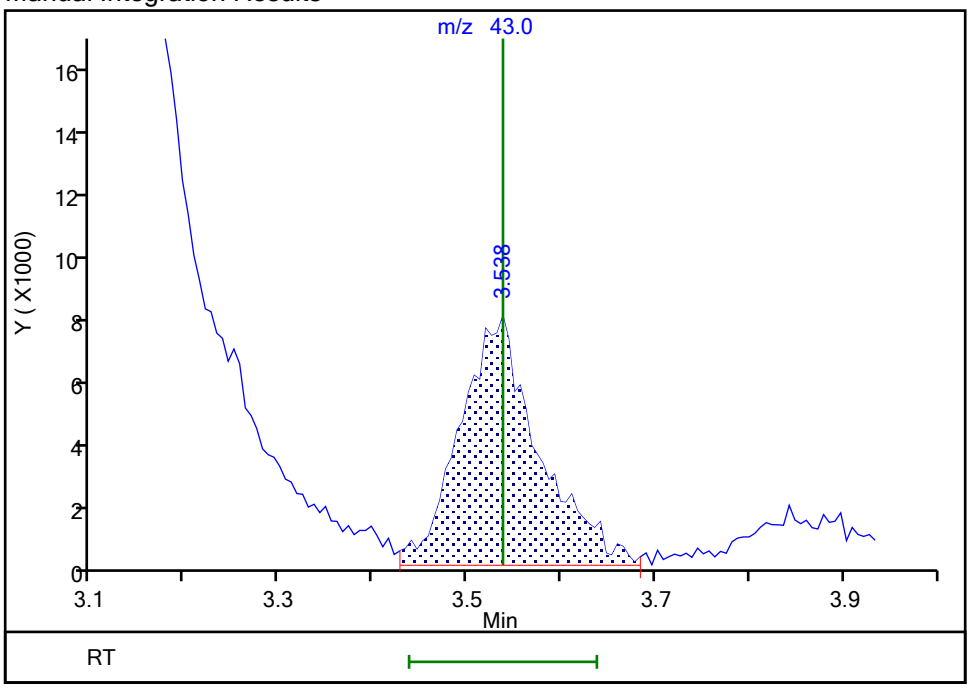
Processing Integration Results

RT: 3.54
Area: 40262
Amount: 2.275613
Amount Units: ug/l



Manual Integration Results

RT: 3.54
Area: 42677
Amount: 2.388818
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:29:27
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X16.D
Lims ID: IC std5 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 22-Aug-2022 21:41:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-017
Misc. Info.: IC STD5 LG
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:44 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: DVW2 Date: 23-Aug-2022 09:31:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.764	1.764	0.000	99	293800	5.00	5.24	
5 Chloromethane	50	1.941	1.940	0.000	99	365920	5.00	4.93	
6 Vinyl chloride	62	2.038	2.038	0.000	98	359428	5.00	5.22	
7 Butadiene	39	2.050	2.050	0.000	92	379643	5.00	5.16	
9 Bromomethane	94	2.331	2.331	0.000	90	233256	5.00	5.10	
10 Chloroethane	64	2.398	2.391	0.007	100	201473	5.00	5.04	
11 Dichlorofluoromethane	67	2.617	2.611	0.006	97	465102	5.00	5.03	
12 Trichlorofluoromethane	101	2.678	2.672	0.006	98	409286	5.00	5.24	
13 Pentane	43	2.678	2.678	0.000	97	359545	5.00	5.19	
15 Ethyl ether	59	2.867	2.867	0.000	92	202566	5.00	5.06	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.959	2.958	0.001	94	302027	5.00	4.97	
17 Acrolein	56	3.013	3.013	0.000	100	1353279	250.0	223.8	
19 1,1-Dichloroethene	96	3.135	3.135	0.000	98	216909	5.00	5.01	
20 Acetone	43	3.172	3.166	0.006	77	284011	50.0	41.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.178	3.178	0.000	92	216833	5.00	5.32	
23 Isopropyl alcohol	45	3.318	3.300	0.018	37	131430	100.0	87.6	
22 Iodomethane	142	3.306	3.306	0.000	97	406462	5.00	5.10	
24 Ethyl bromide	108	3.330	3.330	0.000	98	209712	5.00	5.15	
25 Carbon disulfide	76	3.391	3.397	-0.006	99	693267	5.00	5.18	
27 Methyl acetate	43	3.526	3.538	-0.012	96	85311	5.00	4.26	
28 3-Chloro-1-propene	41	3.544	3.550	-0.006	93	405717	5.00	5.09	
29 Methylene Chloride	84	3.708	3.708	0.000	94	257199	5.00	5.01	
* 30 t-Butyl alcohol-d10 (IS)	65	3.745	3.751	-0.006	45	131878	50.0	50.0	
31 2-Methyl-2-propanol	59	3.849	3.873	-0.024	99	224704	100.0	81.8	
32 Acrylonitrile	53	4.019	4.031	-0.012	99	118945	12.5	11.6	
33 Methyl tert-butyl ether	73	4.068	4.068	0.000	95	669039	5.00	5.09	
34 trans-1,2-Dichloroethene	96	4.074	4.068	0.006	98	269017	5.00	5.05	
35 Hexane	57	4.477	4.476	0.001	92	375986	5.00	5.26	
36 1,1-Dichloroethane	63	4.720	4.720	0.000	96	501664	5.00	5.11	
38 Isopropyl ether	45	4.781	4.793	-0.012	95	916612	5.00	5.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Chloro-1,3-butadiene	53	4.830	4.836	-0.006	90	388421	5.00	5.07	
40 Tert-butyl ethyl ether	59	5.336	5.330	0.006	98	852261	5.00	5.12	
41 2-Butanone (MEK)	43	5.543	5.549	-0.006	100	657655	50.0	47.5	
42 cis-1,2-Dichloroethene	96	5.580	5.574	0.006	82	300063	5.00	5.14	
43 2,2-Dichloropropane	77	5.580	5.580	0.000	86	394862	5.00	5.10	
45 Propionitrile	54	5.641	5.653	-0.012	99	353271	100.0	102.4	
46 Methacrylonitrile	67	5.860	5.860	0.000	92	717302	50.0	49.0	
47 Chlorobromomethane	128	5.915	5.909	0.006	93	132568	5.00	5.13	
48 Tetrahydrofuran	71	5.915	5.915	0.000	78	92407	25.0	23.5	
50 Chloroform	83	6.074	6.074	0.000	93	465915	5.00	5.04	
S 51 1,2-Dichloroethene, Total	100				0			10.2	
52 1,1,1-Trichloroethane	97	6.287	6.287	0.000	98	414918	5.00	5.13	
$ 53 Dibromofluoromethane (Surr)	113	6.293	6.293	0.000	94	458730	10.0	9.98	
54 Cyclohexane	56	6.385	6.379	0.007	91	477600	5.00	5.25	
55 Carbon tetrachloride	117	6.501	6.500	0.001	96	354085	5.00	5.22	
56 1,1-Dichloropropene	75	6.513	6.513	0.000	98	383816	5.00	5.08	
57 Isobutyl alcohol	41	6.714	6.714	0.000	93	227353	250.0	233.0	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.751	6.744	0.007	95	92628	10.0	9.80	
59 Benzene	78	6.775	6.775	0.000	97	1153651	5.00	5.10	
61 1,2-Dichloroethane	62	6.854	6.854	0.000	97	271805	5.00	4.74	
63 Tert-amyl methyl ether	73	6.982	6.982	0.000	99	764987	5.00	5.09	
* 64 Fluorobenzene (IS)	96	7.196	7.195	0.001	99	1966718	10.0	10.0	
65 n-Heptane	43	7.214	7.208	0.006	95	418190	5.00	5.15	
66 n-Butanol	56	7.622	7.628	-0.006	88	370766	437.5	473.9	
67 Trichloroethene	95	7.683	7.683	0.000	98	297519	5.00	5.13	
68 Methylcyclohexane	83	7.982	7.982	0.000	90	515209	5.00	5.34	
69 1,2-Dichloropropane	63	8.019	8.025	-0.006	98	305654	5.00	5.08	
70 2-ethoxy-2-methyl butane	87	8.043	8.043	0.000	92	449657	5.00	5.13	
72 1,4-Dioxane	88	8.134	8.122	0.012	32	49073	250.0	251.5	M
71 Methyl methacrylate	69	8.128	8.128	0.000	92	132554	5.00	4.96	
73 Dibromomethane	93	8.134	8.134	0.000	94	136357	5.00	5.08	
75 Dichlorobromomethane	83	8.378	8.378	0.000	99	339449	5.00	5.14	
76 2-Nitropropane	41	8.665	8.665	0.000	98	179082	25.0	23.6	
78 1-Bromo-2-chloroethane	63	8.775	8.774	0.001	98	312292	5.00	5.21	
79 cis-1,3-Dichloropropene	75	8.951	8.951	0.000	97	456604	5.00	5.27	
81 4-Methyl-2-pentanone (MIBK)	43	9.159	9.158	0.001	96	1851510	50.0	49.4	
$ 82 Toluene-d8 (Surr)	98	9.281	9.280	0.001	93	2002030	10.0	9.98	
83 Toluene	92	9.366	9.366	0.000	98	752839	5.00	5.08	
84 trans-1,3-Dichloropropene	75	9.659	9.664	-0.006	92	375505	5.00	5.27	
85 Ethyl methacrylate	69	9.738	9.738	0.000	90	302935	5.00	5.26	
86 1,1,2-Trichloroethane	97	9.872	9.872	0.000	90	207585	5.00	5.06	
87 Tetrachloroethene	166	9.957	9.951	0.006	97	355454	5.00	5.15	
102 1,3-Dichloropropane	76	10.043	10.042	0.001	90	366005	5.00	5.17	
S 103 1,3-Dichloropropene, Total	100				0			10.5	
104 2-Hexanone	43	10.116	10.116	0.000	96	1349331	50.0	50.8	
106 Chlorodibromomethane	129	10.268	10.268	0.000	89	257820	5.00	5.26	
107 Ethylene Dibromide	107	10.378	10.378	0.000	99	199120	5.00	5.16	
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	84	1523078	10.0	10.0	
109 1-Chlorohexane	91	10.853	10.853	0.000	98	422503	5.00	5.01	
110 Chlorobenzene	112	10.859	10.859	0.000	96	882611	5.00	5.05	
111 1,1,1,2-Tetrachloroethane	131	10.951	10.951	0.000	97	298570	5.00	5.16	
112 Ethylbenzene	91	10.957	10.951	0.006	98	1471927	5.00	5.11	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
113 m-Xylene & p-Xylene	106	11.079	11.079	0.000	100	1187447	10.0	10.3	
S 114 Xylenes, Total	106				0			15.4	
115 o-Xylene	106	11.414	11.414	0.000	96	591255	5.00	5.16	
116 Styrene	104	11.433	11.432	0.001	95	973785	5.00	5.19	
117 Bromoform	173	11.591	11.591	0.000	98	150577	5.00	5.27	
118 Isopropylbenzene	105	11.725	11.725	0.000	95	1507786	5.00	5.17	
$ 121 4-Bromofluorobenzene (Surr)	95	11.871	11.871	0.000	92	742687	10.0	10.0	
123 1,1,2,2-Tetrachloroethane	83	11.987	11.987	0.000	71	264788	5.00	5.05	
122 Bromobenzene	156	11.987	11.987	0.000	91	368252	5.00	4.99	
124 trans-1,4-Dichloro-2-butene	53	12.012	12.012	0.000	90	651340	50.0	51.4	
125 1,2,3-Trichloropropane	110	12.030	12.030	0.000	78	68664	5.00	5.01	
126 N-Propylbenzene	91	12.067	12.066	0.001	99	1818248	5.00	5.14	
127 2-Chlorotoluene	126	12.140	12.140	0.000	97	374593	5.00	5.06	
128 1,3,5-Trimethylbenzene	105	12.207	12.207	0.000	94	1304146	5.00	5.12	
129 4-Chlorotoluene	126	12.237	12.237	0.000	96	392996	5.00	5.17	
130 tert-Butylbenzene	134	12.451	12.451	0.001	93	302846	5.00	5.40	
131 Pentachloroethane	167	12.481	12.481	0.000	94	226588	5.00	5.34	
132 1,2,4-Trimethylbenzene	105	12.499	12.499	0.000	96	1363905	5.00	5.16	
133 sec-Butylbenzene	105	12.621	12.621	0.000	94	1673386	5.00	5.17	
134 1,3-Dichlorobenzene	146	12.719	12.719	0.000	98	766080	5.00	5.07	
135 4-Isopropyltoluene	119	12.731	12.731	0.000	97	1478589	5.00	5.13	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	94	886836	10.0	10.0	
137 1,4-Dichlorobenzene	146	12.792	12.792	0.000	95	775609	5.00	5.02	
138 1,2,3-Trimethylbenzene	120	12.804	12.804	0.000	98	607653	5.00	5.04	
139 Benzyl chloride	126	12.877	12.877	0.000	98	116673	5.00	5.38	
140 n-Butylbenzene	92	13.030	13.030	0.000	97	750462	5.00	5.17	
141 1,2-Dichlorobenzene	146	13.054	13.054	0.000	99	701375	5.00	5.04	
142 p-Diethylbenzene	119	13.085	13.085	0.000	86	746795	5.00	5.09	
145 1,2-Dibromo-3-Chloropropane	155	13.609	13.609	0.000	89	40444	5.00	5.46	
146 1,3,5-Trichlorobenzene	180	13.737	13.737	0.000	98	612369	5.00	5.14	
147 1,2,4-Trichlorobenzene	180	14.164	14.164	0.000	94	522154	5.00	5.20	
148 Hexachlorobutadiene	225	14.249	14.249	0.000	96	262775	5.00	5.07	
149 Naphthalene	128	14.347	14.346	0.001	97	852539	5.00	5.34	
150 1,2,3-Trichlorobenzene	180	14.493	14.493	0.000	96	425824	5.00	5.26	
151 2-Methylnaphthalene	142	15.090	15.096	-0.006	92	437968	5.00	5.81	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00053	Amount Added:	5.00	Units: uL	
MSV_LL_#2_826_00057	Amount Added:	5.00	Units: uL	
MSV_LL_GAS826_00109	Amount Added:	5.00	Units: uL	
MSV_HP25_ISSS_00058	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 31-Aug-2022 08:31:44 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X16.D

Injection Date: 22-Aug-2022 21:41:30 Instrument ID: 10193 Operator ID: knk41612

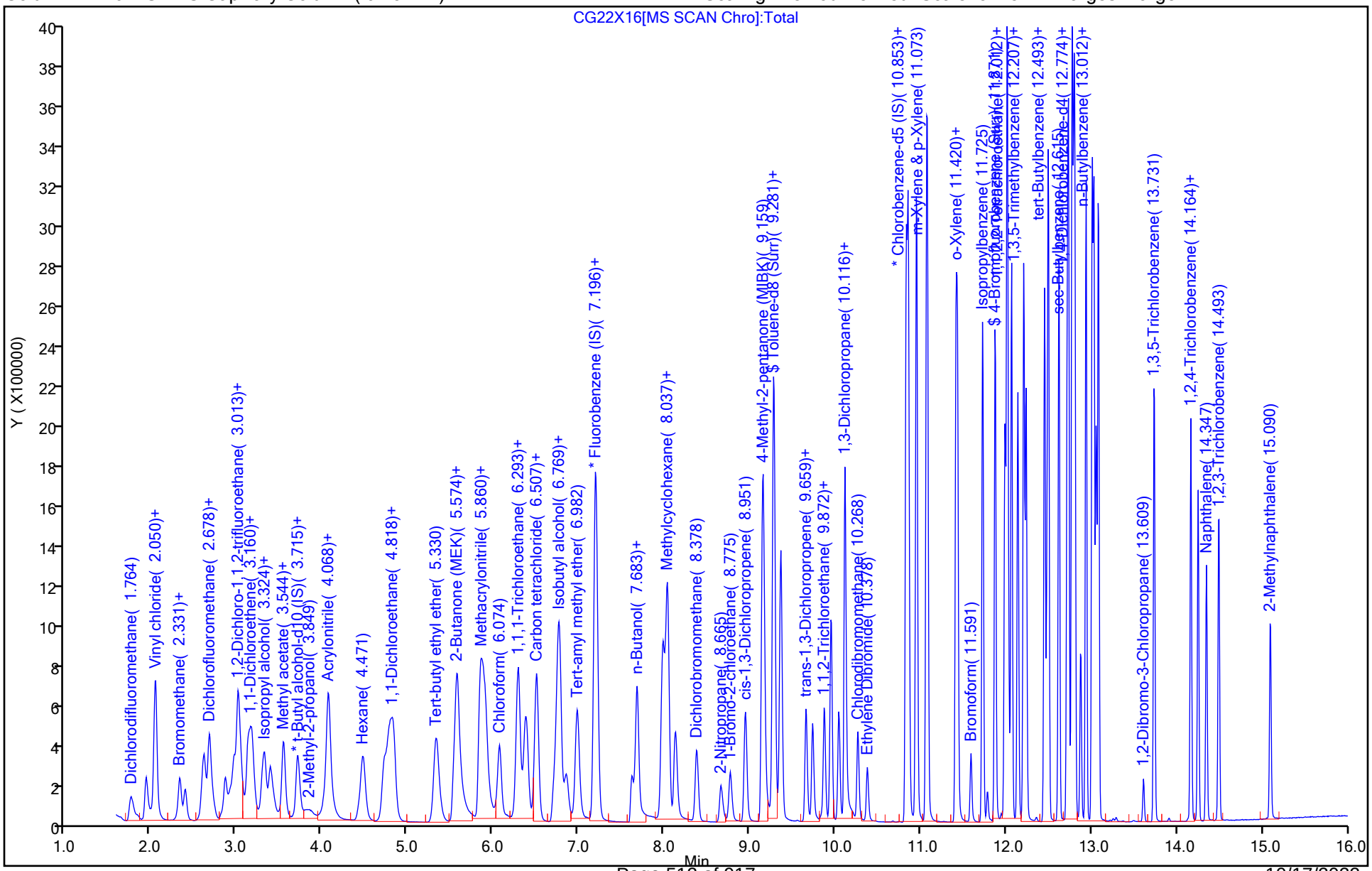
Lims ID: IC std5 5 Worklist Smp#: 17

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 16

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

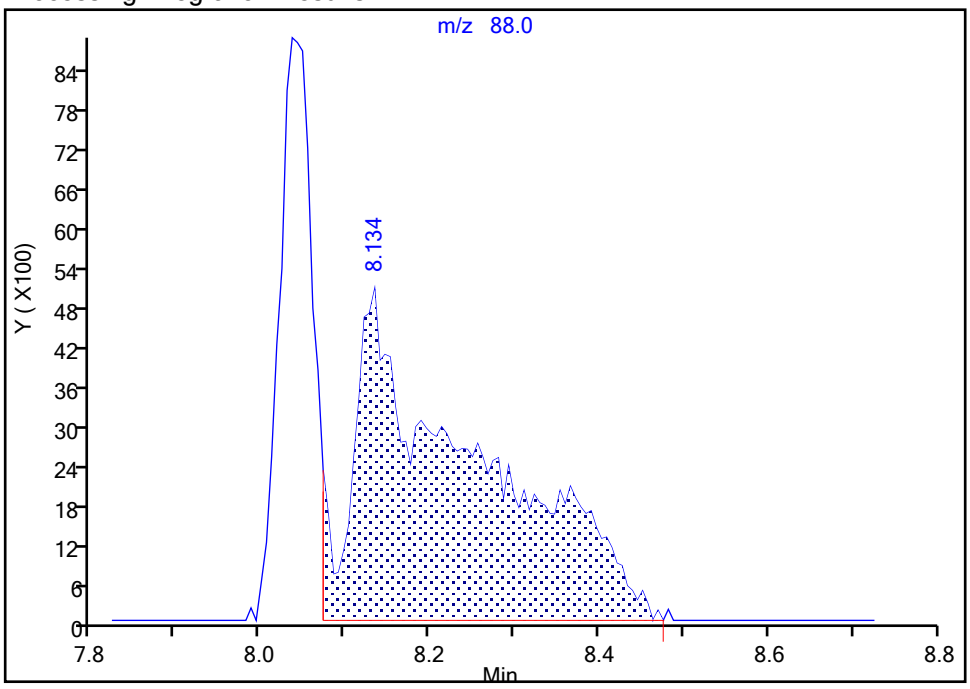
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X16.D
Injection Date: 22-Aug-2022 21:41:30 Instrument ID: 10193
Lims ID: IC std5 5
Client ID:
Operator ID: knk41612 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

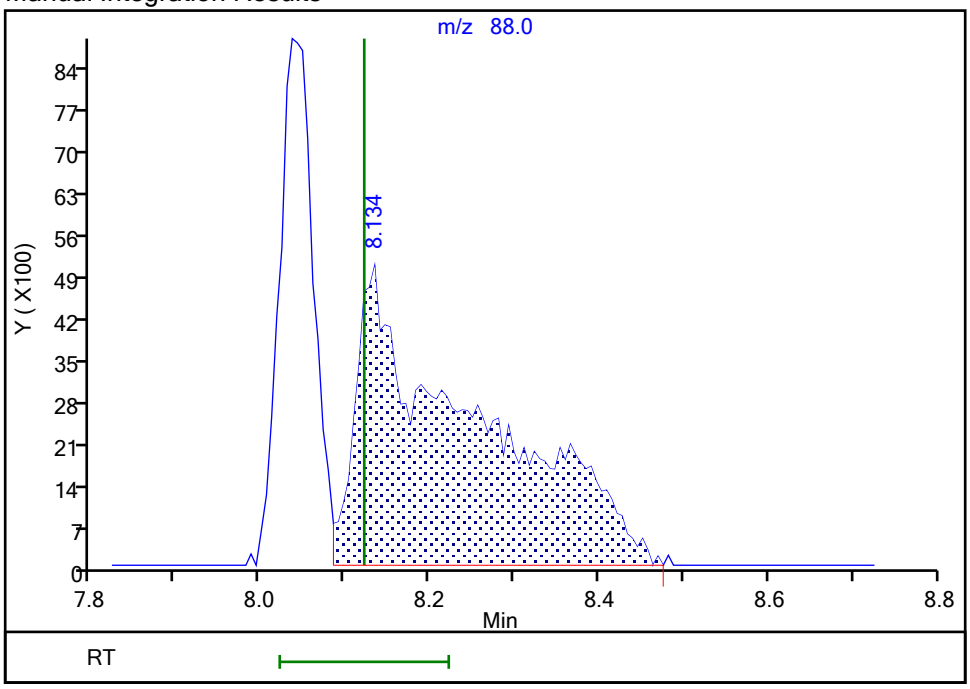
Processing Integration Results

RT: 8.13
Area: 50492
Amount: 258.2894
Amount Units: ug/l



Manual Integration Results

RT: 8.13
Area: 49073
Amount: 251.4945
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:31:22
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X17.D
Lims ID: ICIS 10
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 22-Aug-2022 22:04:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-018
Misc. Info.: IC STD10 LG
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:49 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: DVW2 Date: 23-Aug-2022 09:20:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.764	1.764	0.000	99	551391	10.0	9.72	
5 Chloromethane	50	1.940	1.940	0.000	99	702218	10.0	9.36	
6 Vinyl chloride	62	2.038	2.038	0.000	98	668019	10.0	9.60	
7 Butadiene	39	2.050	2.050	0.000	91	707641	10.0	9.51	
9 Bromomethane	94	2.331	2.331	0.000	89	447646	10.0	9.67	
10 Chloroethane	64	2.398	2.398	0.000	100	381713	10.0	9.44	
11 Dichlorofluoromethane	67	2.617	2.617	0.000	97	883302	10.0	9.46	
12 Trichlorofluoromethane	101	2.672	2.672	0.000	96	768569	10.0	9.74	
13 Pentane	43	2.678	2.678	0.000	97	652133	10.0	9.32	
15 Ethyl ether	59	2.861	2.861	0.000	92	403748	10.0	9.98	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.959	2.959	0.000	93	577792	10.0	9.40	
17 Acrolein	56	3.013	3.013	0.000	100	2878823	500.0	484.1	
19 1,1-Dichloroethene	96	3.135	3.135	0.000	98	420214	10.0	9.61	
20 Acetone	43	3.166	3.166	0.000	100	586839	100.0	87.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.178	3.178	0.000	92	391381	10.0	9.50	
23 Isopropyl alcohol	45	3.318	3.318	0.000	37	274962	200.0	186.4	
22 Iodomethane	142	3.300	3.300	0.000	97	795081	10.0	9.88	
24 Ethyl bromide	108	3.324	3.324	0.000	98	406210	10.0	9.87	
25 Carbon disulfide	76	3.391	3.391	0.000	99	1356041	10.0	10.0	
27 Methyl acetate	43	3.532	3.532	0.000	36	186144	10.0	9.45	
28 3-Chloro-1-propene	41	3.544	3.544	0.000	93	790937	10.0	9.81	
29 Methylene Chloride	84	3.708	3.708	0.000	94	506891	10.0	9.77	
* 30 t-Butyl alcohol-d10 (IS)	65	3.745	3.745	0.000	47	129707	50.0	50.0	M
31 2-Methyl-2-propanol	59	3.849	3.849	0.000	100	492429	200.0	182.2	M
32 Acrylonitrile	53	4.019	4.019	0.000	97	237647	25.0	23.6	
33 Methyl tert-butyl ether	73	4.068	4.068	0.000	91	1317373	10.0	9.92	
34 trans-1,2-Dichloroethene	96	4.074	4.074	0.000	99	522027	10.0	9.69	
35 Hexane	57	4.470	4.470	0.000	92	697755	10.0	9.65	
36 1,1-Dichloroethane	63	4.720	4.720	0.000	96	974846	10.0	9.83	
38 Isopropyl ether	45	4.787	4.787	0.000	95	1792406	10.0	9.83	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Chloro-1,3-butadiene	53	4.830	4.830	0.000	90	770625	10.0	9.95	
40 Tert-butyl ethyl ether	59	5.330	5.330	0.000	98	1678851	10.0	9.97	
41 2-Butanone (MEK)	43	5.543	5.543	0.000	100	1312882	100.0	96.3	
42 cis-1,2-Dichloroethene	96	5.574	5.574	0.000	82	582324	10.0	9.86	
43 2,2-Dichloropropane	77	5.586	5.586	0.000	90	764497	10.0	9.76	
45 Propionitrile	54	5.635	5.635	0.000	99	680863	200.0	200.7	
46 Methacrylonitrile	67	5.860	5.860	0.000	93	1412977	100.0	98.1	
47 Chlorobromomethane	128	5.909	5.909	0.000	95	258754	10.0	9.89	
48 Tetrahydrofuran	71	5.927	5.927	0.000	88	182320	50.0	47.2	
50 Chloroform	83	6.074	6.074	0.000	93	914023	10.0	9.78	
52 1,1,1-Trichloroethane	97	6.293	6.293	0.000	98	801358	10.0	9.81	
$ 53 Dibromofluoromethane (Surr)	113	6.293	6.293	0.000	80	465740	10.0	10.0	
54 Cyclohexane	56	6.385	6.385	0.000	91	901372	10.0	9.81	
55 Carbon tetrachloride	117	6.501	6.501	0.000	97	687136	10.0	10.0	
56 1,1-Dichloropropene	75	6.513	6.513	0.000	97	748768	10.0	9.80	
57 Isobutyl alcohol	41	6.708	6.708	0.000	95	459860	500.0	479.2	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.757	6.757	0.000	91	96949	10.0	10.1	
59 Benzene	78	6.775	6.775	0.000	97	2233141	10.0	9.76	
61 1,2-Dichloroethane	62	6.860	6.860	0.000	97	553463	10.0	9.55	
63 Tert-amyl methyl ether	73	6.982	6.982	0.000	99	1522599	10.0	10.0	
* 64 Fluorobenzene (IS)	96	7.196	7.196	0.000	99	1988424	10.0	10.0	
65 n-Heptane	43	7.208	7.208	0.000	93	805860	10.0	9.81	
66 n-Butanol	56	7.622	7.622	0.000	89	733904	875.0	953.8	
67 Trichloroethene	95	7.683	7.683	0.000	98	579842	10.0	9.88	
68 Methylcyclohexane	83	7.982	7.982	0.000	90	961769	10.0	9.86	
69 1,2-Dichloropropane	63	8.025	8.025	0.000	98	598697	10.0	9.85	
70 2-ethoxy-2-methyl butane	87	8.043	8.043	0.000	92	900733	10.0	10.2	
72 1,4-Dioxane	88	8.134	8.134	0.000	31	92194	500.0	499.1	
71 Methyl methacrylate	69	8.128	8.128	0.000	93	269988	10.0	10.3	
73 Dibromomethane	93	8.134	8.134	0.000	92	266367	10.0	9.82	
75 Dichlorobromomethane	83	8.384	8.384	0.000	99	673095	10.0	10.1	
76 2-Nitropropane	41	8.665	8.665	0.000	97	364359	50.0	48.7	
78 1-Bromo-2-chloroethane	63	8.774	8.774	0.000	98	605618	10.0	9.99	
79 cis-1,3-Dichloropropene	75	8.951	8.951	0.000	97	913681	10.0	10.4	
81 4-Methyl-2-pentanone (MIBK)	43	9.159	9.159	0.000	96	3642524	100.0	98.8	
$ 82 Toluene-d8 (Surr)	98	9.280	9.280	0.000	93	2005572	10.0	10.0	
83 Toluene	92	9.366	9.366	0.000	98	1452698	10.0	9.81	
84 trans-1,3-Dichloropropene	75	9.658	9.658	0.000	92	749823	10.0	10.5	
85 Ethyl methacrylate	69	9.738	9.738	0.000	90	610058	10.0	10.6	
86 1,1,2-Trichloroethane	97	9.872	9.872	0.000	90	404572	10.0	9.86	
87 Tetrachloroethene	166	9.951	9.951	0.000	97	682338	10.0	9.89	
102 1,3-Dichloropropane	76	10.043	10.043	0.000	90	705748	10.0	9.96	
104 2-Hexanone	43	10.116	10.116	0.000	96	2660875	100.0	101.9	
106 Chlorodibromomethane	129	10.268	10.268	0.000	90	512238	10.0	10.5	
107 Ethylene Dibromide	107	10.378	10.378	0.000	99	394261	10.0	10.2	
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	85	1523479	10.0	10.0	
109 1-Chlorohexane	91	10.853	10.853	0.000	98	811122	10.0	9.61	
110 Chlorobenzene	112	10.859	10.859	0.000	96	1718683	10.0	9.84	
111 1,1,1,2-Tetrachloroethane	131	10.951	10.951	0.000	97	584797	10.0	10.1	
112 Ethylbenzene	91	10.957	10.957	0.000	98	2898705	10.0	10.1	
113 m-Xylene & p-Xylene	106	11.079	11.079	0.000	100	2318735	20.0	20.1	
115 o-Xylene	106	11.414	11.414	0.000	96	1149776	10.0	10.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 Styrene	104	11.432	11.432	0.000	95	1930190	10.0	10.3	
117 Bromoform	173	11.591	11.591	0.000	98	304772	10.0	10.7	
118 Isopropylbenzene	105	11.725	11.725	0.000	95	2934036	10.0	10.1	
$ 121 4-Bromofluorobenzene (Surr)	95	11.871	11.871	0.000	93	746355	10.0	10.0	
123 1,1,2,2-Tetrachloroethane	83	11.987	11.987	0.000	71	521855	10.0	9.80	
122 Bromobenzene	156	11.987	11.987	0.000	91	739659	10.0	9.87	
124 trans-1,4-Dichloro-2-butene	53	12.012	12.012	0.000	89	1316632	100.0	102.3	
125 1,2,3-Trichloropropane	110	12.030	12.030	0.000	78	135978	10.0	9.76	
126 N-Propylbenzene	91	12.067	12.067	0.000	99	3563972	10.0	9.93	
127 2-Chlorotoluene	126	12.140	12.140	0.000	97	742687	10.0	9.87	
128 1,3,5-Trimethylbenzene	105	12.207	12.207	0.000	94	2602668	10.0	10.1	
129 4-Chlorotoluene	126	12.237	12.237	0.000	97	762667	10.0	9.88	
130 tert-Butylbenzene	134	12.451	12.451	0.000	93	564379	10.0	9.90	
131 Pentachloroethane	167	12.481	12.481	0.000	94	452438	10.0	10.5	
132 1,2,4-Trimethylbenzene	105	12.493	12.493	0.000	97	2700369	10.0	10.1	
133 sec-Butylbenzene	105	12.621	12.621	0.000	94	3277891	10.0	9.97	
134 1,3-Dichlorobenzene	146	12.719	12.719	0.000	98	1524668	10.0	9.93	
135 4-Isopropyltoluene	119	12.731	12.731	0.000	97	2933697	10.0	10.0	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	93	900908	10.0	10.0	
137 1,4-Dichlorobenzene	146	12.792	12.792	0.000	95	1560415	10.0	9.95	
138 1,2,3-Trimethylbenzene	120	12.804	12.804	0.000	98	1203438	10.0	9.83	
139 Benzyl chloride	126	12.877	12.877	0.000	98	237062	10.0	10.8	
140 n-Butylbenzene	92	13.030	13.030	0.000	97	1479651	10.0	10.0	
141 1,2-Dichlorobenzene	146	13.054	13.054	0.000	99	1412566	10.0	10.0	
142 p-Diethylbenzene	119	13.085	13.085	0.000	86	1474273	10.0	9.88	
145 1,2-Dibromo-3-Chloropropane	155	13.609	13.609	0.000	89	78968	10.0	10.5	
146 1,3,5-Trichlorobenzene	180	13.737	13.737	0.000	98	1217566	10.0	10.1	
147 1,2,4-Trichlorobenzene	180	14.164	14.164	0.000	94	1052807	10.0	10.3	
148 Hexachlorobutadiene	225	14.249	14.249	0.000	96	526010	10.0	9.99	
149 Naphthalene	128	14.347	14.347	0.000	96	1734949	10.0	10.7	
150 1,2,3-Trichlorobenzene	180	14.493	14.493	0.000	96	857542	10.0	10.4	
151 2-Methylnaphthalene	142	15.090	15.090	0.000	92	909593	10.0	11.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00053	Amount Added: 10.00	Units: uL	
MSV_LL_#2_826_00057	Amount Added: 10.00	Units: uL	
MSV_LL_GAS826_00109	Amount Added: 10.00	Units: uL	
MSV_HP25_ISSS_00058	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 31-Aug-2022 08:31:50 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X17.D

Injection Date: 22-Aug-2022 22:04:30 Instrument ID: 10193 Operator ID: knk41612

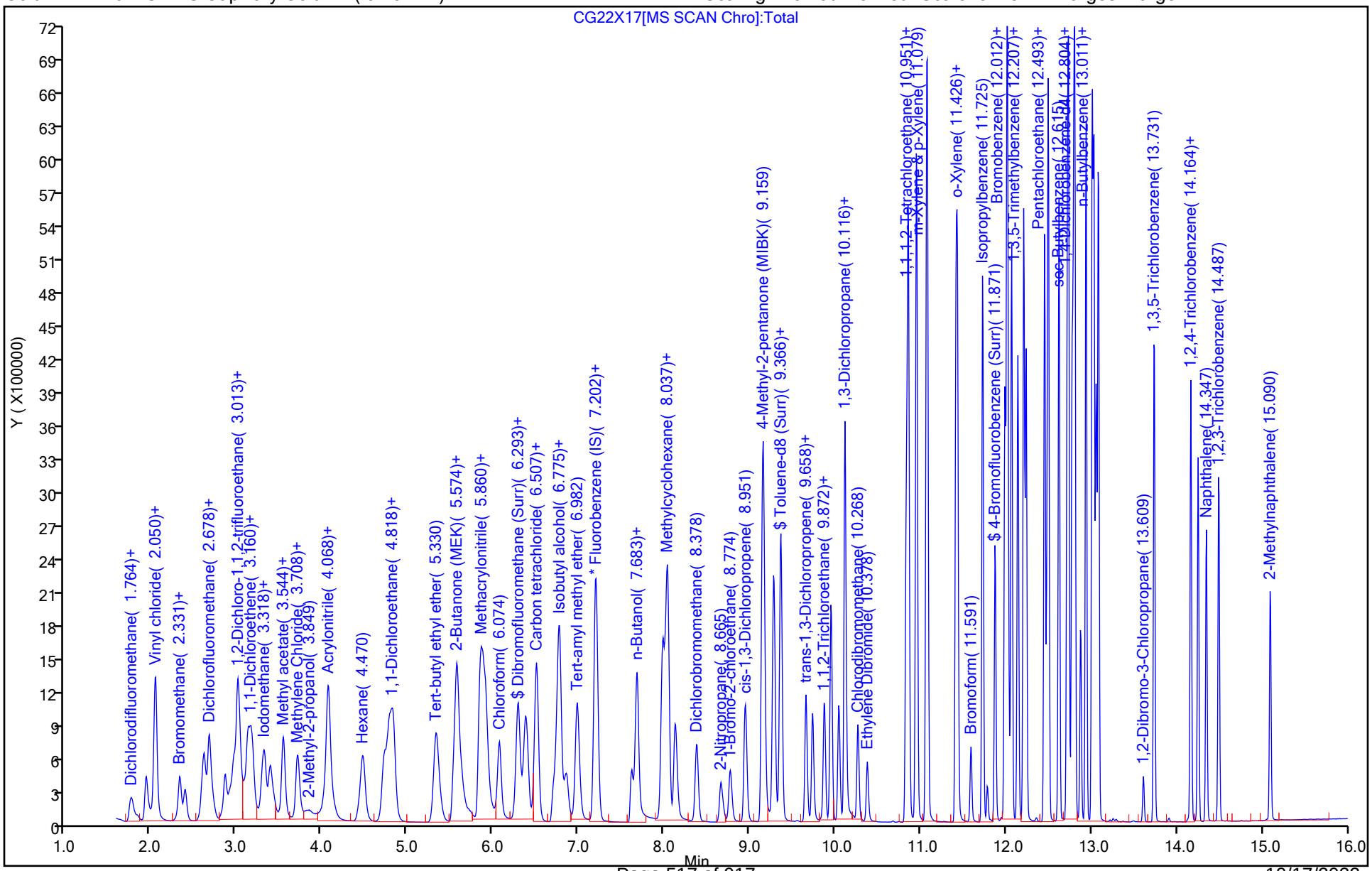
Lims ID: ICIS 10 Worklist Smp#: 18

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 17

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

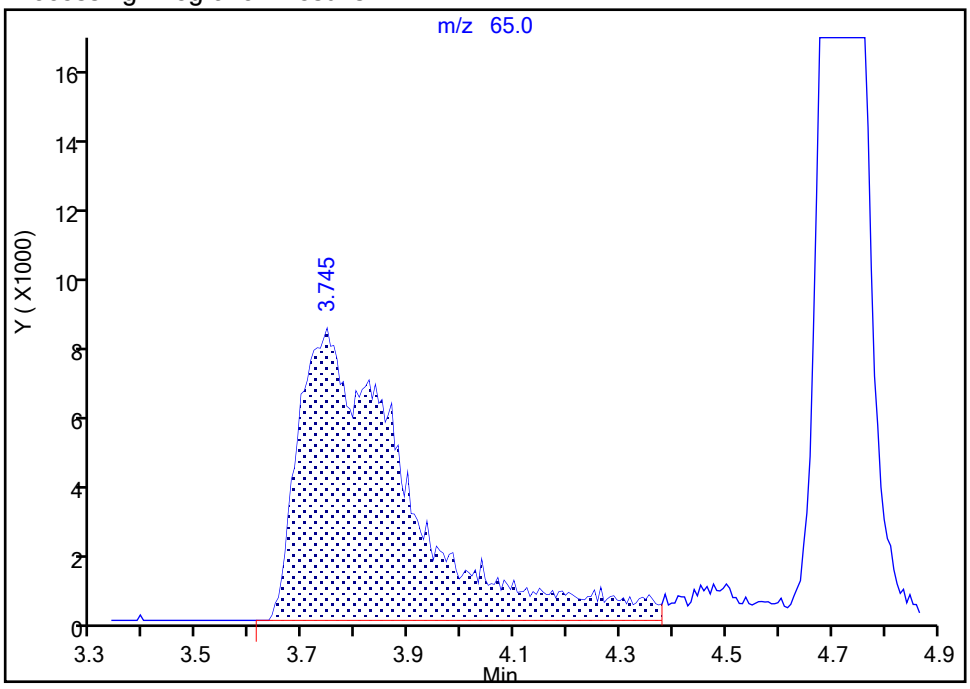
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X17.D
Injection Date: 22-Aug-2022 22:04:30 Instrument ID: 10193
Lims ID: ICIS 10
Client ID:
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 30 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

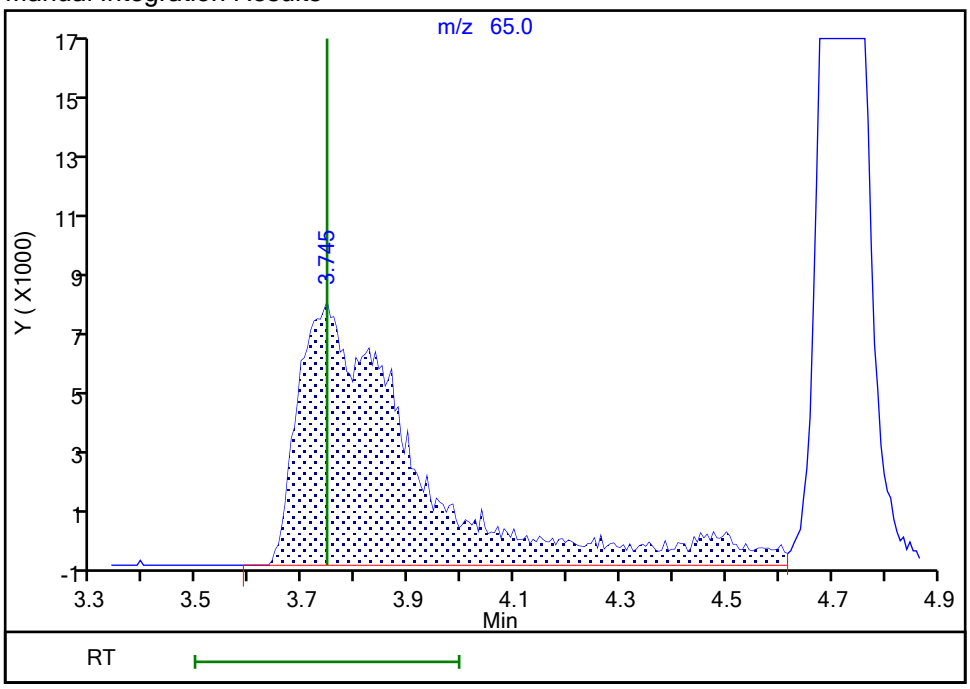
Processing Integration Results

RT: 3.74
Area: 120301
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 3.74
Area: 129707
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:19:14
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

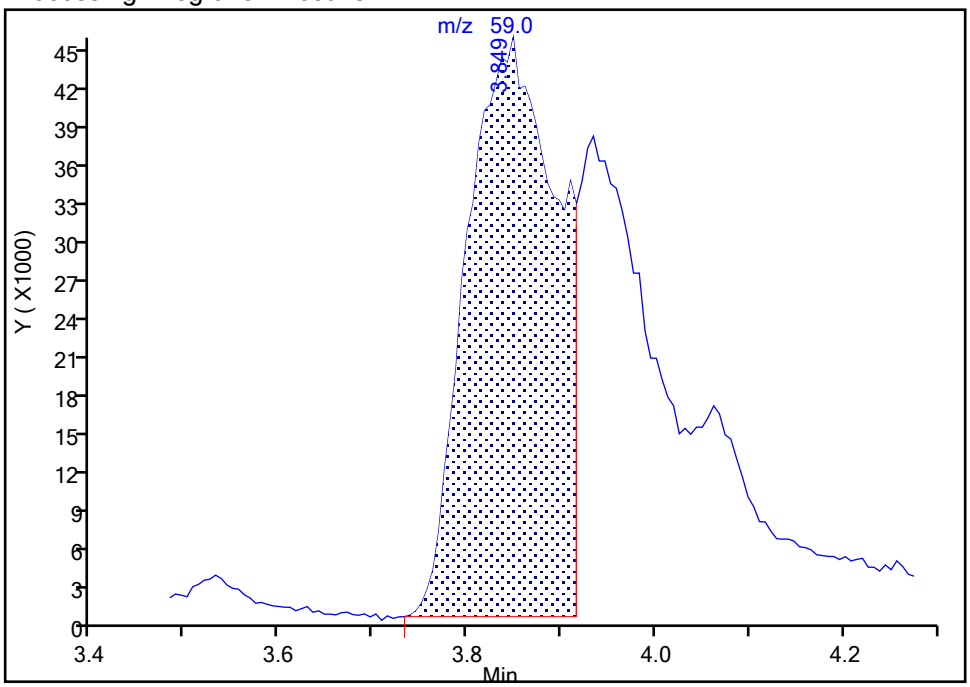
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X17.D
Injection Date: 22-Aug-2022 22:04:30 Instrument ID: 10193
Lims ID: ICIS 10
Client ID:
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

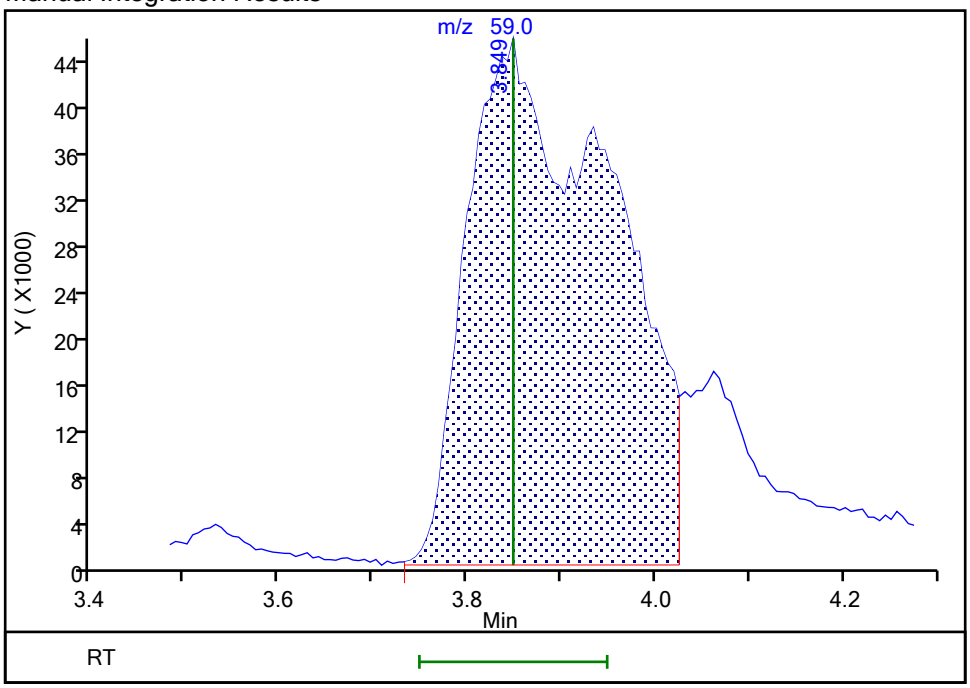
Processing Integration Results

RT: 3.85
Area: 306915
Amount: 117.2326
Amount Units: ug/l



Manual Integration Results

RT: 3.85
Area: 492429
Amount: 182.1553
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:19:40
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D
Lims ID: IC std7 25
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 22-Aug-2022 22:26:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-019
Misc. Info.: IC STD25 LG
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:55 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

First Level Reviewer: UJML Date: 31-Aug-2022 08:30:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.757	1.764	-0.007	99	1410396	25.0	24.5	
5 Chloromethane	50	1.934	1.940	-0.006	99	1779819	25.0	23.4	
6 Vinyl chloride	62	2.032	2.038	-0.006	98	1714605	25.0	24.3	
7 Butadiene	39	2.044	2.050	-0.006	91	1795374	25.0	23.8	
9 Bromomethane	94	2.324	2.331	-0.007	90	1146630	25.0	24.5	
10 Chloroethane	64	2.385	2.398	-0.013	100	963317	25.0	23.5	
11 Dichlorofluoromethane	67	2.611	2.617	-0.006	97	2258999	25.0	23.9	
12 Trichlorofluoromethane	101	2.666	2.672	-0.006	99	1999820	25.0	25.0	
13 Pentane	43	2.672	2.678	-0.006	97	1717969	25.0	24.2	
15 Ethyl ether	59	2.855	2.861	-0.006	92	1020863	25.0	24.9	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.952	2.959	-0.007	93	1499422	25.0	24.1	
17 Acrolein	56	3.007	3.013	-0.006	100	6770476	1250.0	1233.2	
19 1,1-Dichloroethene	96	3.123	3.135	-0.012	98	1076196	25.0	24.3	
20 Acetone	43	3.154	3.166	-0.012	99	1331375	250.0	215.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.172	3.178	-0.006	92	1041622	25.0	25.0	
22 Iodomethane	142	3.294	3.300	-0.006	97	2027086	25.0	24.9	
23 Isopropyl alcohol	45	3.318	3.318	0.000	39	640851	500.0	470.6	
24 Ethyl bromide	108	3.318	3.324	-0.006	98	1050082	25.0	25.2	
25 Carbon disulfide	76	3.385	3.391	-0.006	99	3504627	25.0	25.6	
27 Methyl acetate	43	3.519	3.532	-0.013	98	454980	25.0	25.0	
28 3-Chloro-1-propene	41	3.538	3.544	-0.006	98	2024085	25.0	24.8	
29 Methylene Chloride	84	3.702	3.708	-0.006	93	1278708	25.0	24.3	
* 30 t-Butyl alcohol-d10 (IS)	65	3.751	3.745	0.006	88	119756	50.0	50.0	
31 2-Methyl-2-propanol	59	3.848	3.849	-0.001	100	1155957	500.0	463.1	
32 Acrylonitrile	53	4.013	4.019	-0.006	98	555307	62.5	59.8	
33 Methyl tert-butyl ether	73	4.062	4.068	-0.006	93	3325509	25.0	24.7	
34 trans-1,2-Dichloroethene	96	4.062	4.074	-0.012	99	1331383	25.0	24.4	
35 Hexane	57	4.464	4.470	-0.006	92	1826385	25.0	24.9	
36 1,1-Dichloroethane	63	4.708	4.720	-0.012	96	2479604	25.0	24.7	
38 Isopropyl ether	45	4.775	4.787	-0.012	95	4568886	25.0	24.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Chloro-1,3-butadiene	53	4.824	4.830	-0.006	90	1997924	25.0	25.5	
40 Tert-butyl ethyl ether	59	5.330	5.330	0.000	98	4241387	25.0	24.9	
41 2-Butanone (MEK)	43	5.543	5.543	0.000	100	3086272	250.0	245.2	
42 cis-1,2-Dichloroethene	96	5.568	5.574	-0.006	82	1473992	25.0	24.7	
43 2,2-Dichloropropane	77	5.586	5.586	0.000	87	1959021	25.0	24.7	
45 Propionitrile	54	5.641	5.635	0.006	99	1495301	500.0	477.4	
46 Methacrylonitrile	67	5.860	5.860	0.000	92	3448269	250.0	259.3	
47 Chlorobromomethane	128	5.909	5.909	0.000	97	664992	25.0	25.1	
48 Tetrahydrofuran	71	5.915	5.927	-0.012	86	440047	125.0	123.4	
50 Chloroform	83	6.068	6.074	-0.006	93	2332920	25.0	24.6	
S 51 1,2-Dichloroethene, Total	100				0			49.1	
52 1,1,1-Trichloroethane	97	6.281	6.293	-0.012	98	2064391	25.0	25.0	
$ 53 Dibromofluoromethane (Surr)	113	6.287	6.293	-0.006	94	473798	10.0	10.1	
54 Cyclohexane	56	6.378	6.385	-0.007	91	2397181	25.0	25.8	
55 Carbon tetrachloride	117	6.494	6.501	-0.007	95	1814532	25.0	26.1	
56 1,1-Dichloropropene	75	6.507	6.513	-0.007	98	1946573	25.0	25.2	
57 Isobutyl alcohol	41	6.708	6.708	0.000	96	1029246	1250.0	1161.7	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.750	6.757	-0.007	87	96466	10.0	9.97	
59 Benzene	78	6.775	6.775	0.000	96	5715737	25.0	24.7	
61 1,2-Dichloroethane	62	6.854	6.860	-0.006	97	1397962	25.0	23.8	
63 Tert-amyl methyl ether	73	6.982	6.982	0.000	99	3840751	25.0	25.0	
* 64 Fluorobenzene (IS)	96	7.189	7.196	-0.007	99	2013656	10.0	10.0	
65 n-Heptane	43	7.208	7.208	0.000	93	2044456	25.0	24.6	
66 n-Butanol	56	7.616	7.622	-0.006	88	1623603	2187.5	2285.5	
67 Trichloroethene	95	7.677	7.683	-0.006	98	1488472	25.0	25.1	
68 Methylcyclohexane	83	7.982	7.982	0.000	92	2536741	25.0	25.7	
69 1,2-Dichloropropane	63	8.018	8.025	-0.007	98	1515441	25.0	24.6	
70 2-ethoxy-2-methyl butane	87	8.043	8.043	0.000	93	2289397	25.0	25.5	
71 Methyl methacrylate	69	8.122	8.128	-0.006	93	689382	25.0	28.4	
72 1,4-Dioxane	88	8.128	8.134	-0.006	85	183524	1250.0	1250.1	M
73 Dibromomethane	93	8.128	8.134	-0.006	93	678275	25.0	24.7	
75 Dichlorobromomethane	83	8.378	8.384	-0.006	99	1729627	25.0	25.6	
76 2-Nitropropane	41	8.665	8.665	0.000	97	898761	125.0	130.2	
78 1-Bromo-2-chloroethane	63	8.774	8.774	0.000	98	1531442	25.0	24.9	
79 cis-1,3-Dichloropropene	75	8.951	8.951	0.000	97	2313525	25.0	26.1	
81 4-Methyl-2-pentanone (MIBK)	43	9.158	9.159	-0.001	96	8909564	250.0	261.7	
$ 82 Toluene-d8 (Surr)	98	9.280	9.280	0.000	93	2059118	10.0	10.1	
83 Toluene	92	9.366	9.366	0.000	98	3764778	25.0	25.1	
84 trans-1,3-Dichloropropene	75	9.658	9.658	0.000	92	1947599	25.0	27.0	
85 Ethyl methacrylate	69	9.738	9.738	0.000	90	1553687	25.0	26.6	
86 1,1,2-Trichloroethane	97	9.872	9.872	0.000	90	1020101	25.0	24.6	
87 Tetrachloroethene	166	9.951	9.951	0.000	97	1756341	25.0	25.1	
102 1,3-Dichloropropane	76	10.042	10.043	0.000	90	1766895	25.0	24.6	
S 103 1,3-Dichloropropene, Total	100				0			53.1	
104 2-Hexanone	43	10.116	10.116	0.000	96	6616151	250.0	274.3	
106 Chlorodibromomethane	129	10.268	10.268	0.000	90	1312207	25.0	26.4	
107 Ethylene Dibromide	107	10.378	10.378	0.000	99	996887	25.0	25.5	
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	86	1542455	10.0	10.0	
109 1-Chlorohexane	91	10.853	10.853	0.000	98	2117826	25.0	24.8	
110 Chlorobenzene	112	10.859	10.859	0.000	96	4385755	25.0	24.8	
111 1,1,1,2-Tetrachloroethane	131	10.951	10.951	0.000	98	1509448	25.0	25.8	
112 Ethylbenzene	91	10.957	10.957	0.000	98	7445839	25.0	25.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
113 m-Xylene & p-Xylene	106	11.073	11.079	-0.006	100	5955366	50.0	50.9	
S 114 Xylenes, Total	106				0			76.4	
115 o-Xylene	106	11.414	11.414	0.000	97	2961699	25.0	25.5	
116 Styrene	104	11.432	11.432	0.000	95	4961998	25.0	26.1	
117 Bromoform	173	11.591	11.591	0.000	98	802862	25.0	27.7	
118 Isopropylbenzene	105	11.725	11.725	0.000	96	7467245	25.0	25.3	
$ 121 4-Bromofluorobenzene (Surr)	95	11.871	11.871	0.000	92	758454	10.0	10.1	
123 1,1,2,2-Tetrachloroethane	83	11.987	11.987	0.000	92	1335844	25.0	24.4	
122 Bromobenzene	156	11.987	11.987	0.000	91	1876425	25.0	24.3	
124 trans-1,4-Dichloro-2-butene	53	12.012	12.012	0.000	89	3434592	250.0	259.4	
125 1,2,3-Trichloropropane	110	12.030	12.030	0.000	82	338831	25.0	23.6	
126 N-Propylbenzene	91	12.066	12.067	0.000	98	8940228	25.0	24.2	
127 2-Chlorotoluene	126	12.140	12.140	0.000	97	1879996	25.0	24.3	
128 1,3,5-Trimethylbenzene	105	12.207	12.207	0.000	94	6681135	25.0	25.1	
129 4-Chlorotoluene	126	12.237	12.237	0.000	97	1983516	25.0	25.0	
130 tert-Butylbenzene	134	12.450	12.451	-0.001	93	1467578	25.0	25.0	
131 Pentachloroethane	167	12.481	12.481	0.000	95	1186327	25.0	26.8	
132 1,2,4-Trimethylbenzene	105	12.499	12.493	0.006	97	6914040	25.0	25.0	
133 sec-Butylbenzene	105	12.621	12.621	0.000	94	8318844	25.0	24.6	
134 1,3-Dichlorobenzene	146	12.719	12.719	0.000	98	3905280	25.0	24.7	
135 4-Isopropyltoluene	119	12.731	12.731	0.000	97	7465264	25.0	24.8	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	93	926990	10.0	10.0	
137 1,4-Dichlorobenzene	146	12.792	12.792	0.000	95	3914272	25.0	24.3	
138 1,2,3-Trimethylbenzene	120	12.804	12.804	0.000	98	3087805	25.0	24.5	
139 Benzyl chloride	126	12.871	12.877	-0.006	98	618066	25.0	27.3	
140 n-Butylbenzene	92	13.030	13.030	0.000	97	3805919	25.0	25.1	
141 1,2-Dichlorobenzene	146	13.054	13.054	0.000	99	3607202	25.0	24.8	
142 p-Diethylbenzene	119	13.084	13.085	-0.001	86	3817301	25.0	24.9	
145 1,2-Dibromo-3-Chloropropane	155	13.609	13.609	0.000	89	206473	25.0	26.7	
146 1,3,5-Trichlorobenzene	180	13.737	13.737	0.000	98	3141786	25.0	25.2	
147 1,2,4-Trichlorobenzene	180	14.164	14.164	0.000	94	2739507	25.0	26.1	
148 Hexachlorobutadiene	225	14.249	14.249	0.000	97	1349576	25.0	24.9	
149 Naphthalene	128	14.346	14.347	-0.001	96	4518703	25.0	27.1	
150 1,2,3-Trichlorobenzene	180	14.493	14.493	0.000	96	2228217	25.0	26.4	
151 2-Methylnaphthalene	142	15.090	15.090	0.000	93	2420259	25.0	30.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00053	Amount Added: 25.00	Units: uL	
MSV_LL_#2_826_00057	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00109	Amount Added: 25.00	Units: uL	
MSV_HP25_ISSS_00058	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 31-Aug-2022 08:31:56 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Injection Date: 22-Aug-2022 22:26:30 Instrument ID: 10193 Operator ID: knk41612

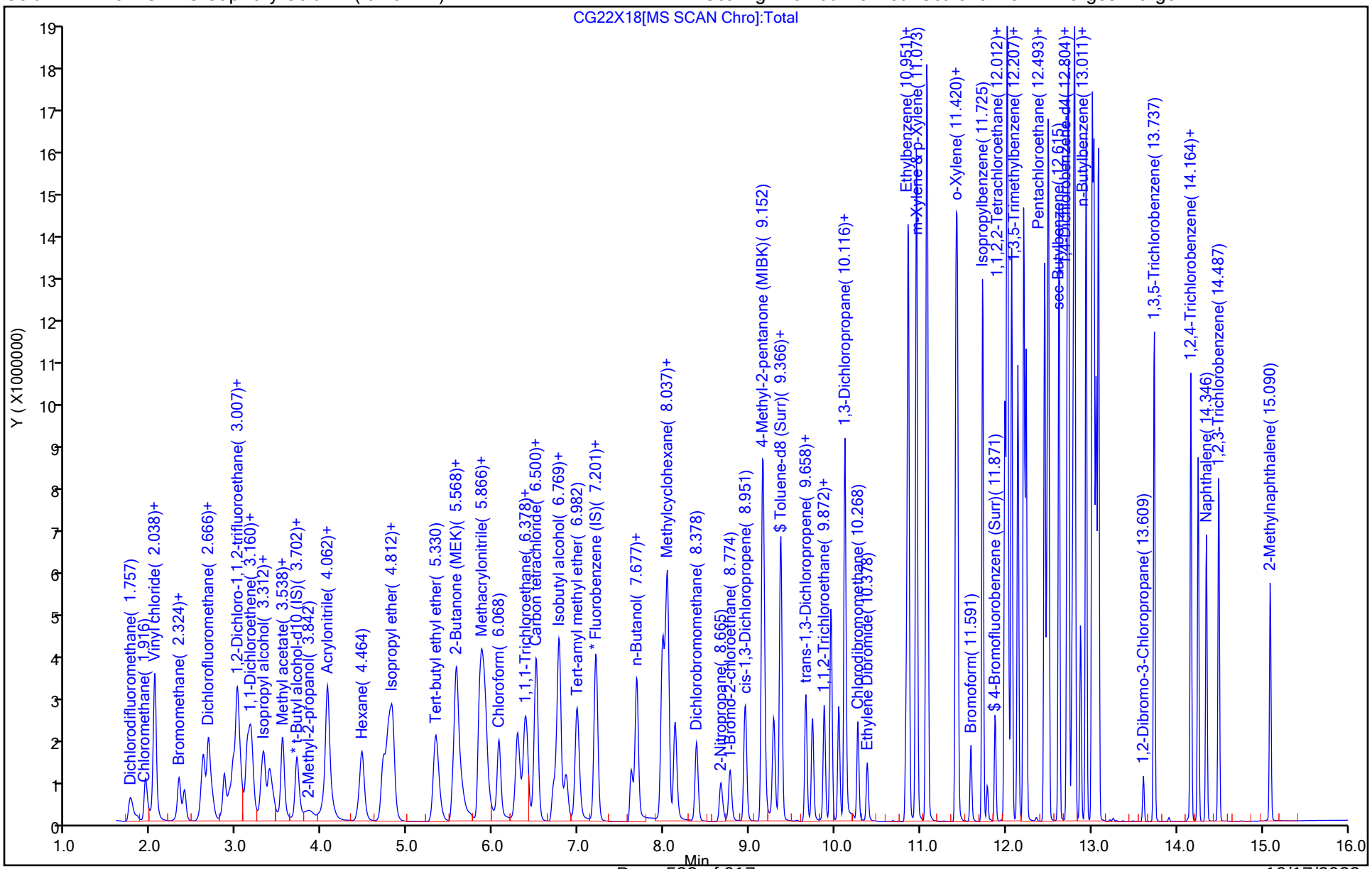
Lims ID: IC std7 25 Worklist Smp#: 19

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 18

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

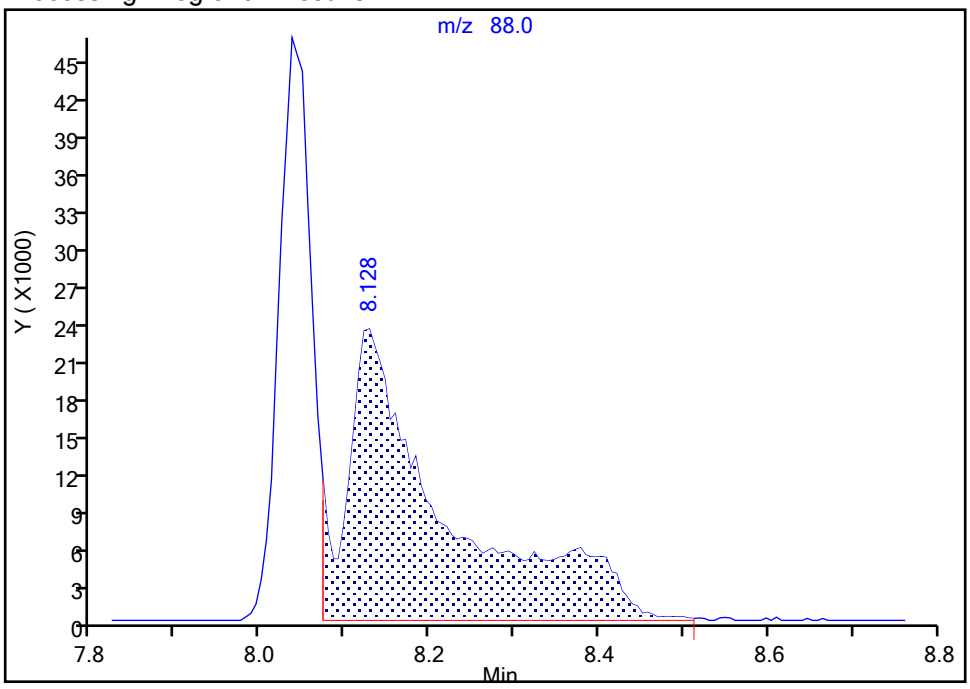
Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D
Injection Date: 22-Aug-2022 22:26:30 Instrument ID: 10193
Lims ID: IC std7 25
Client ID:
Operator ID: knk41612 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

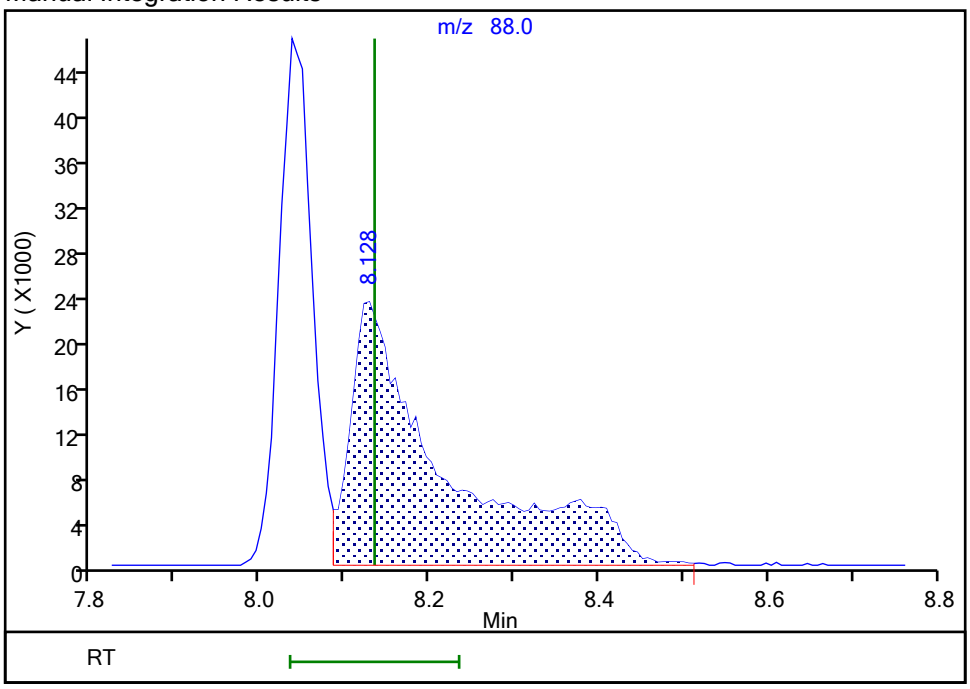
Processing Integration Results

RT: 8.13
Area: 190279
Amount: 1250.2793
Amount Units: ug/l



Manual Integration Results

RT: 8.13
Area: 183524
Amount: 1250.1240
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:32:37
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

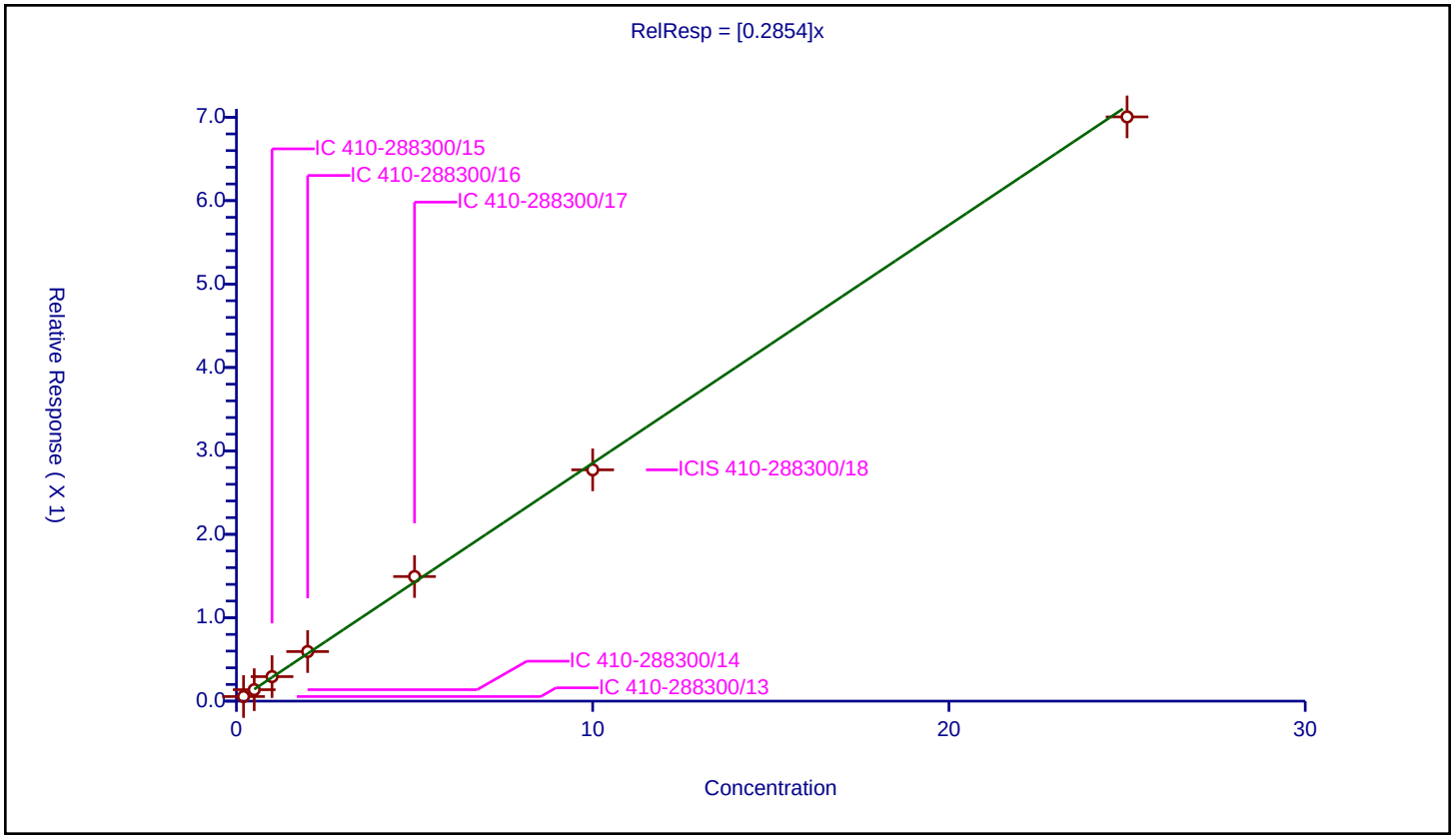
Curve Coefficients

Intercept:	0
Slope:	0.2854

Error Coefficients

Standard Error:	632000
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 410-288300/13	0.2	0.055036	10.0	1993587.0	0.275182	Y
2	IC 410-288300/14	0.5	0.137423	10.0	1985770.0	0.274846	Y
3	IC 410-288300/15	1.0	0.294031	10.0	1978464.0	0.294031	Y
4	IC 410-288300/16	2.0	0.594435	10.0	1976130.0	0.297217	Y
5	IC 410-288300/17	5.0	1.493859	10.0	1966718.0	0.298772	Y
6	ICIS 410-288300/18	10.0	2.773005	10.0	1988424.0	0.277301	Y
7	IC 410-288300/19	25.0	7.004156	10.0	2013656.0	0.280166	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

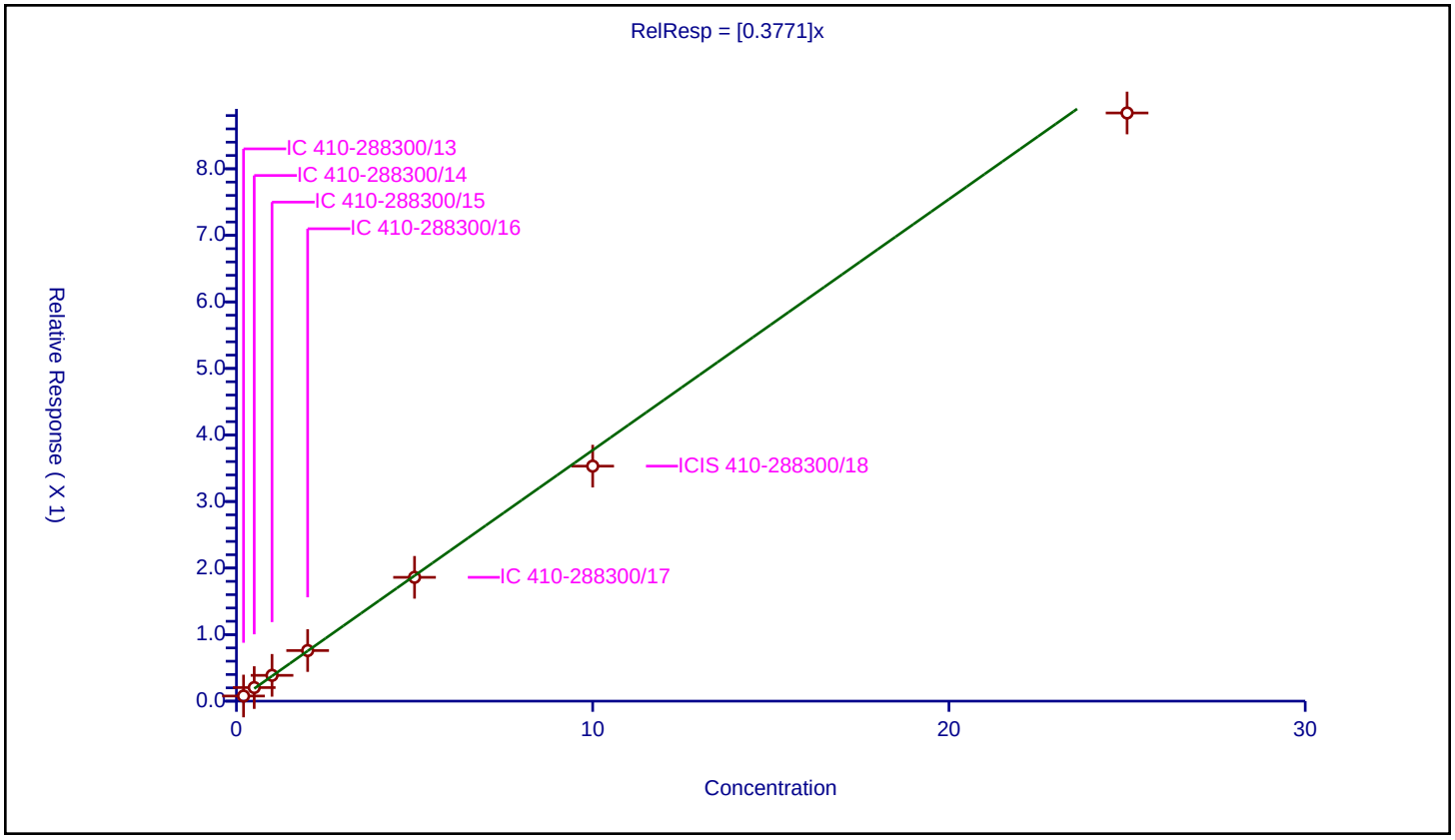
Curve Coefficients

Intercept:	0
Slope:	0.3771

Error Coefficients

Standard Error:	798000
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 410-288300/13	0.2	0.077092	10.0	1993587.0	0.385461	Y
2	IC 410-288300/14	0.5	0.204012	10.0	1985770.0	0.408023	Y
3	IC 410-288300/15	1.0	0.387624	10.0	1978464.0	0.387624	Y
4	IC 410-288300/16	2.0	0.760157	10.0	1976130.0	0.380079	Y
5	IC 410-288300/17	5.0	1.860562	10.0	1966718.0	0.372112	Y
6	ICIS 410-288300/18	10.0	3.53153	10.0	1988424.0	0.353153	Y
7	IC 410-288300/19	25.0	8.838744	10.0	2013656.0	0.35355	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

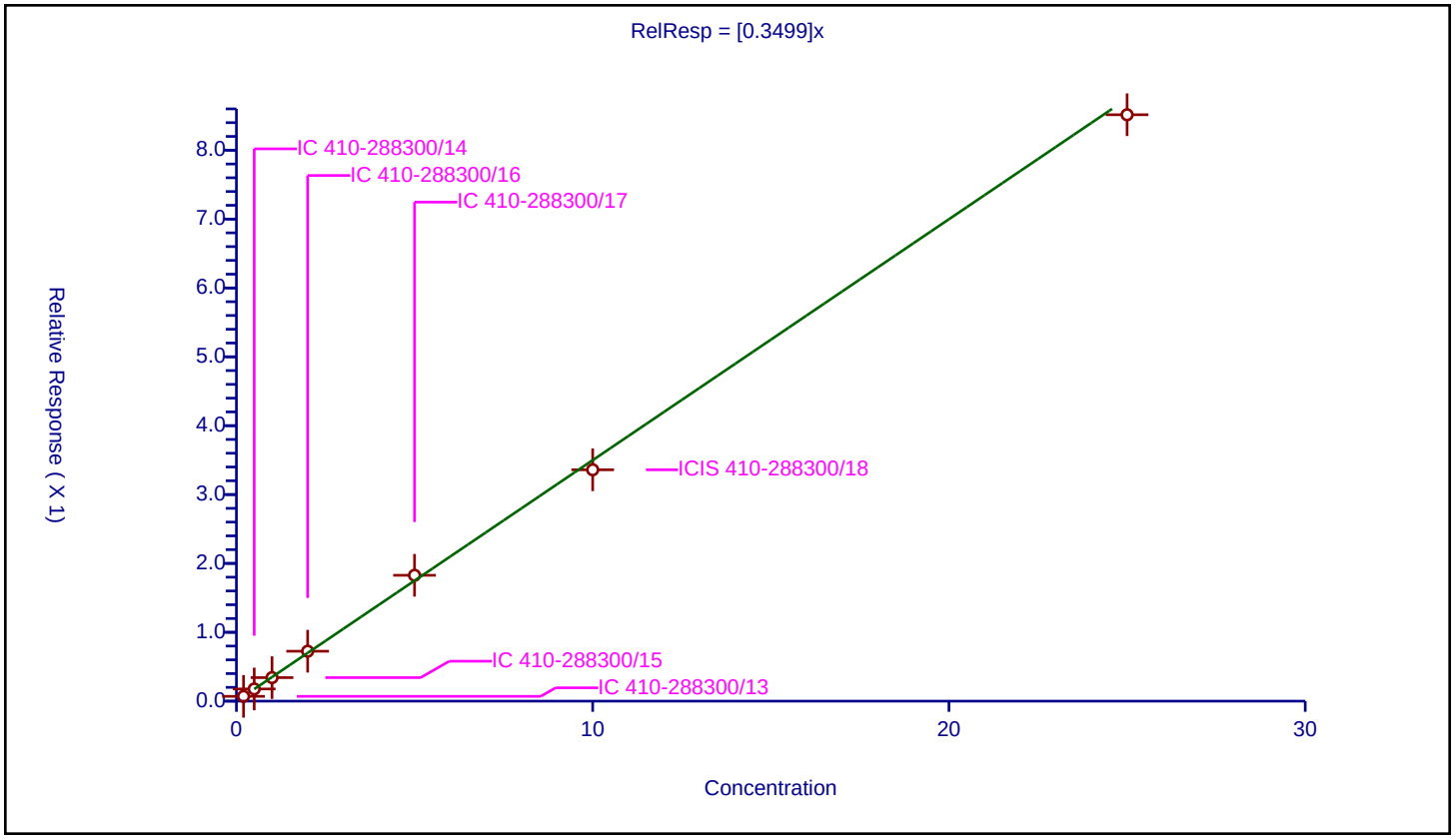
Curve Coefficients

Intercept:	0
Slope:	0.3499

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 410-288300/13	0.2	0.069809	10.0	1993587.0	0.349044	Y
2	IC 410-288300/14	0.5	0.17706	10.0	1985770.0	0.35412	Y
3	IC 410-288300/15	1.0	0.341553	10.0	1978464.0	0.341553	Y
4	IC 410-288300/16	2.0	0.724907	10.0	1976130.0	0.362453	Y
5	IC 410-288300/17	5.0	1.827552	10.0	1966718.0	0.36551	Y
6	ICIS 410-288300/18	10.0	3.35954	10.0	1988424.0	0.335954	Y
7	IC 410-288300/19	25.0	8.514885	10.0	2013656.0	0.340595	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

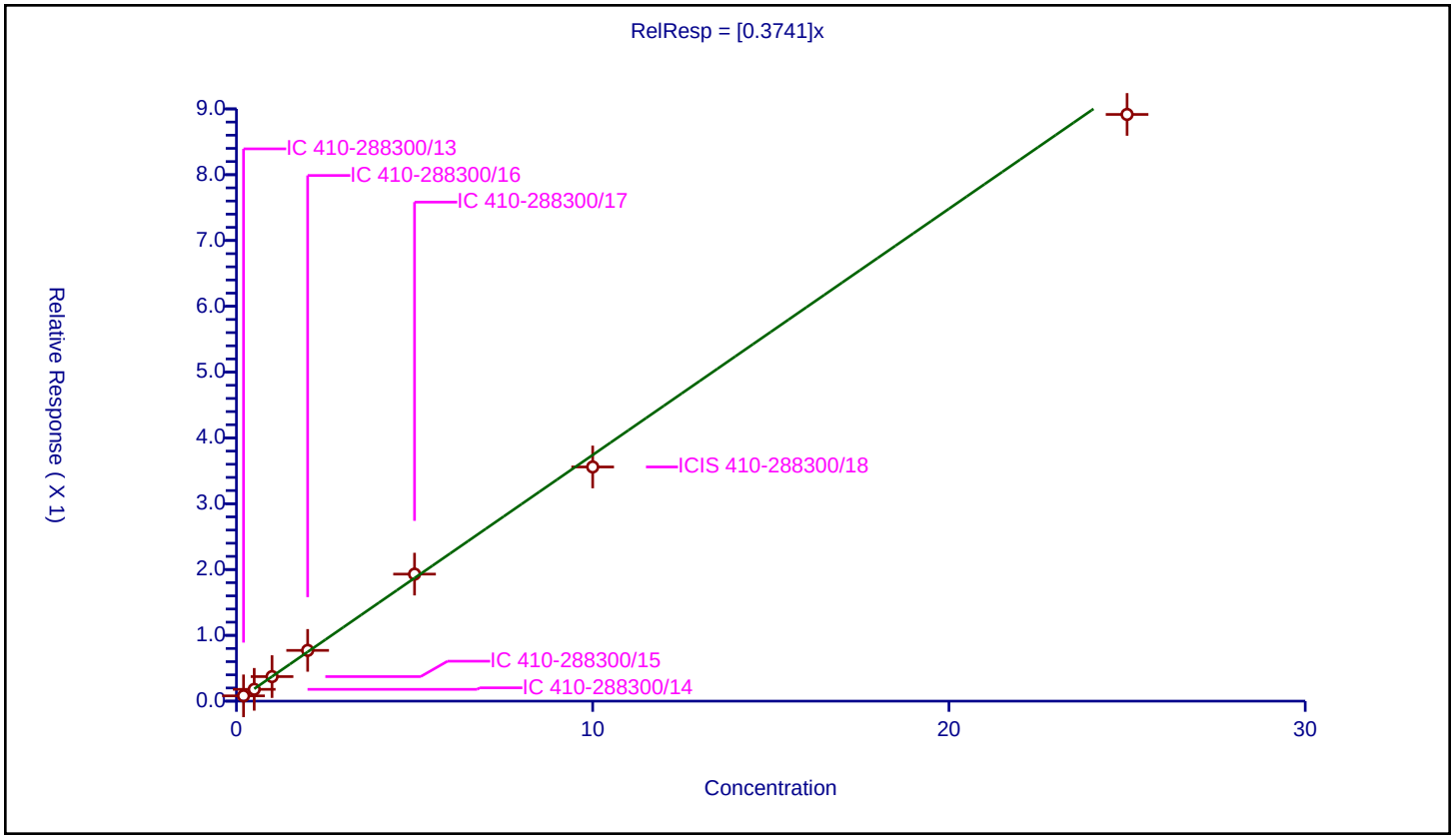
Curve Coefficients

Intercept:	0
Slope:	0.3741

Error Coefficients

Standard Error:	806000
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 410-288300/13	0.2	0.080453	10.0	1993587.0	0.402265	Y
2	IC 410-288300/14	0.5	0.179633	10.0	1985770.0	0.359266	Y
3	IC 410-288300/15	1.0	0.373001	10.0	1978464.0	0.373001	Y
4	IC 410-288300/16	2.0	0.771149	10.0	1976130.0	0.385574	Y
5	IC 410-288300/17	5.0	1.930338	10.0	1966718.0	0.386068	Y
6	ICIS 410-288300/18	10.0	3.558803	10.0	1988424.0	0.35588	Y
7	IC 410-288300/19	25.0	8.915992	10.0	2013656.0	0.35664	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

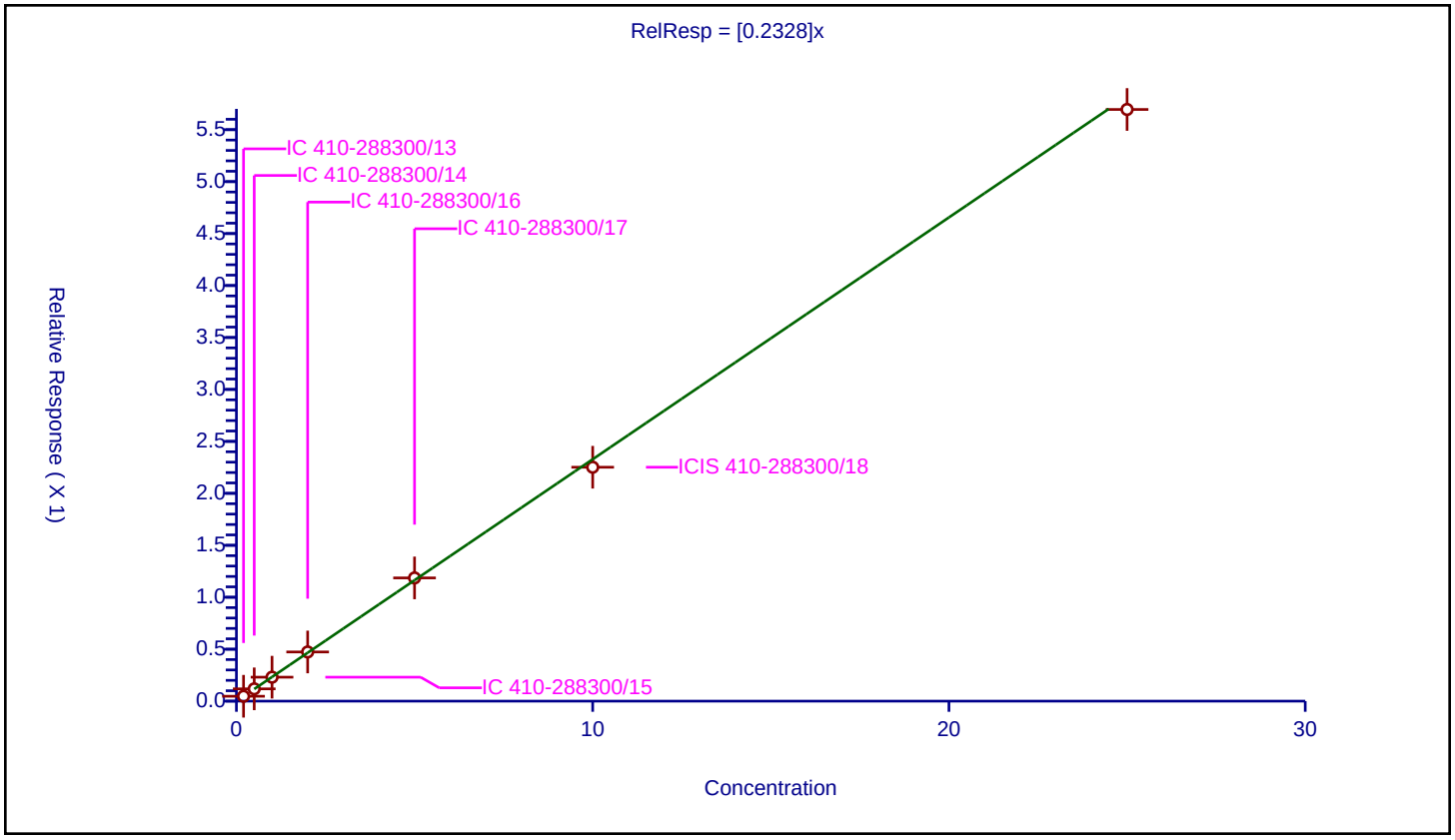
Curve Coefficients

Intercept:	0
Slope:	0.2328

Error Coefficients

Standard Error:	513000
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 410-288300/13	0.2	0.047036	10.0	1993587.0	0.235179	Y
2	IC 410-288300/14	0.5	0.118397	10.0	1985770.0	0.236795	Y
3	IC 410-288300/15	1.0	0.230694	10.0	1978464.0	0.230694	Y
4	IC 410-288300/16	2.0	0.473339	10.0	1976130.0	0.23667	Y
5	IC 410-288300/17	5.0	1.186017	10.0	1966718.0	0.237203	Y
6	ICIS 410-288300/18	10.0	2.25126	10.0	1988424.0	0.225126	Y
7	IC 410-288300/19	25.0	5.69427	10.0	2013656.0	0.227771	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

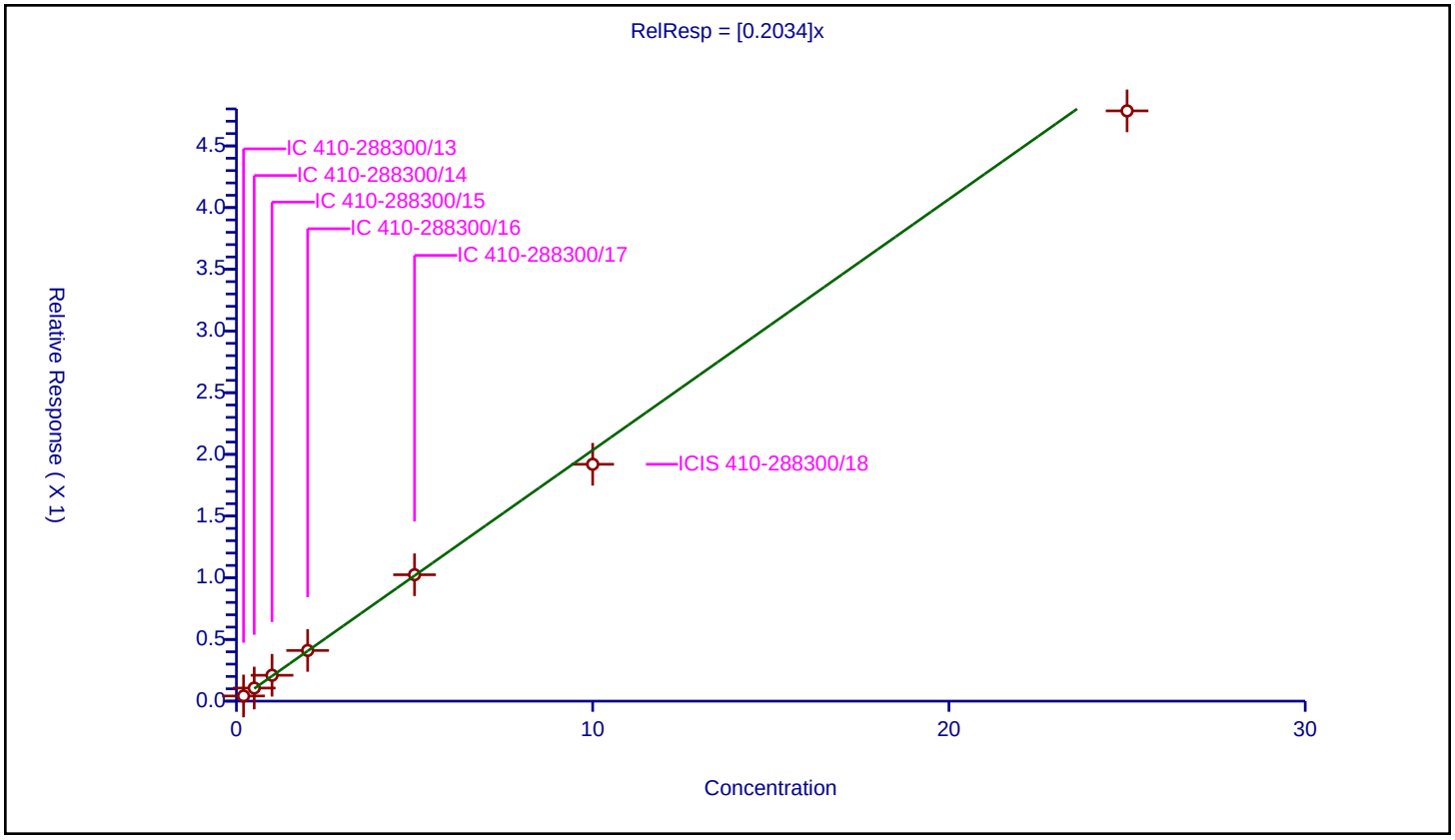
Curve Coefficients

Intercept:	0
Slope:	0.2034

Error Coefficients

Standard Error:	433000
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 410-288300/13	0.2	0.041679	10.0	1993587.0	0.208393	Y
2	IC 410-288300/14	0.5	0.10611	10.0	1985770.0	0.21222	Y
3	IC 410-288300/15	1.0	0.209678	10.0	1978464.0	0.209678	Y
4	IC 410-288300/16	2.0	0.410722	10.0	1976130.0	0.205361	Y
5	IC 410-288300/17	5.0	1.024412	10.0	1966718.0	0.204882	Y
6	ICIS 410-288300/18	10.0	1.919676	10.0	1988424.0	0.191968	Y
7	IC 410-288300/19	25.0	4.78392	10.0	2013656.0	0.191357	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

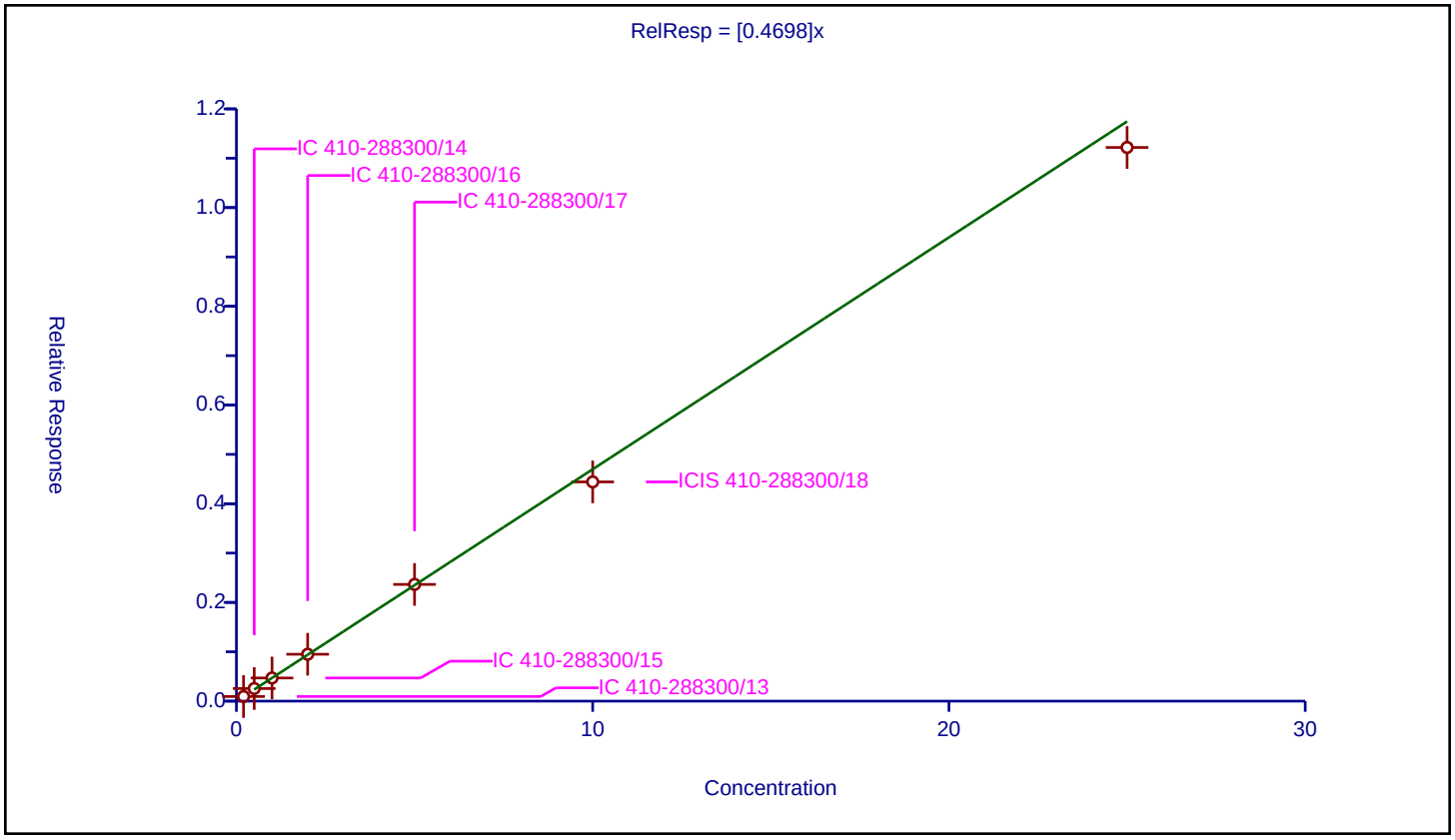
Curve Coefficients

Intercept:	0
Slope:	0.4698

Error Coefficients

Standard Error:	1010000
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 410-288300/13	0.2	0.093399	10.0	1993587.0	0.466997	Y
2	IC 410-288300/14	0.5	0.255714	10.0	1985770.0	0.511429	Y
3	IC 410-288300/15	1.0	0.469248	10.0	1978464.0	0.469248	Y
4	IC 410-288300/16	2.0	0.950079	10.0	1976130.0	0.47504	Y
5	IC 410-288300/17	5.0	2.364864	10.0	1966718.0	0.472973	Y
6	ICIS 410-288300/18	10.0	4.442222	10.0	1988424.0	0.444222	Y
7	IC 410-288300/19	25.0	11.218396	10.0	2013656.0	0.448736	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

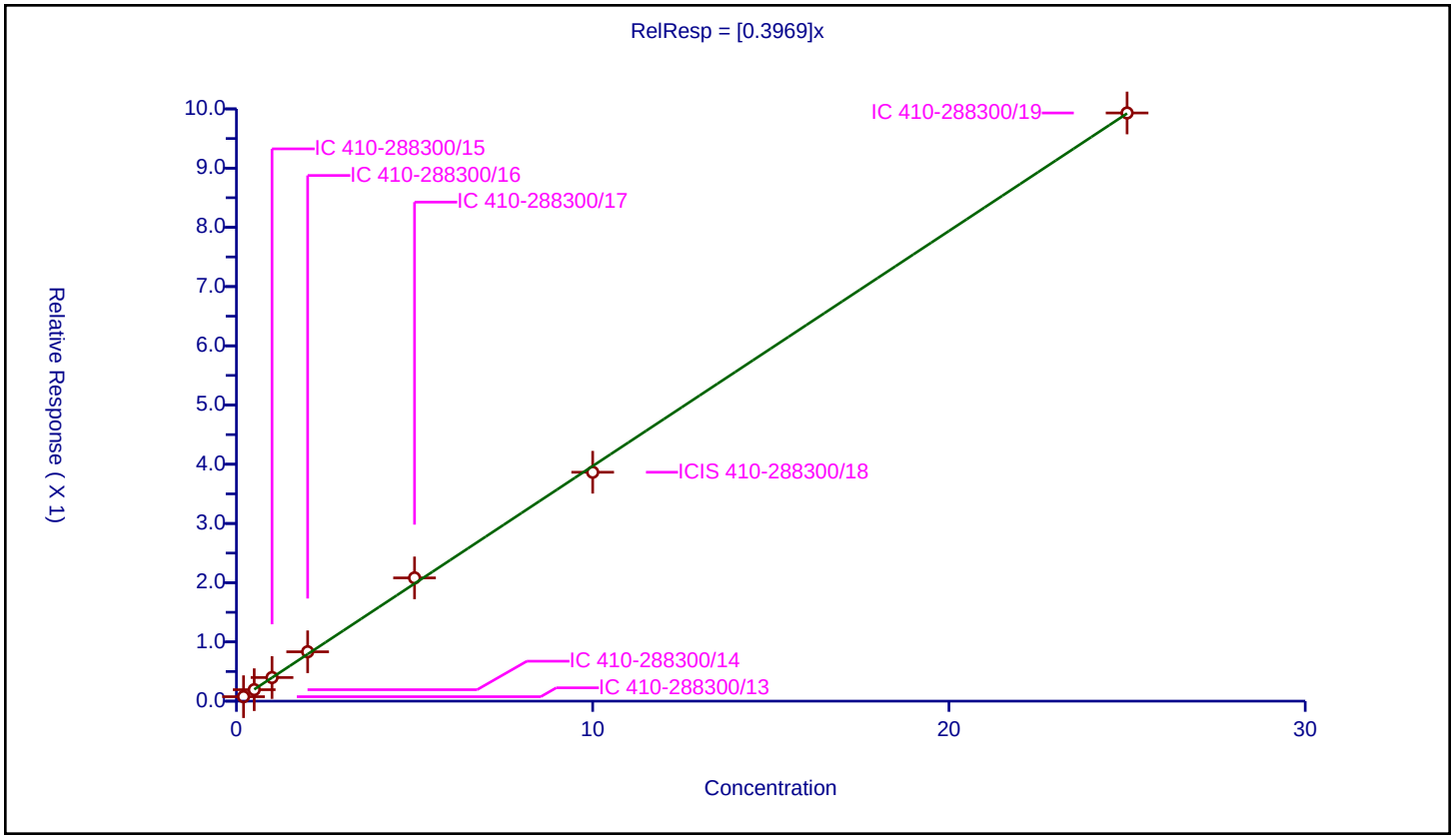
Curve Coefficients

Intercept:	0
Slope:	0.3969

Error Coefficients

Standard Error:	894000
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 410-288300/13	0.2	0.075136	10.0	1993587.0	0.37568	Y
2	IC 410-288300/14	0.5	0.193668	10.0	1985770.0	0.387336	Y
3	IC 410-288300/15	1.0	0.398739	10.0	1978464.0	0.398739	Y
4	IC 410-288300/16	2.0	0.833528	10.0	1976130.0	0.416764	Y
5	IC 410-288300/17	5.0	2.081061	10.0	1966718.0	0.416212	Y
6	ICIS 410-288300/18	10.0	3.865217	10.0	1988424.0	0.386522	Y
7	IC 410-288300/19	25.0	9.931289	10.0	2013656.0	0.397252	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

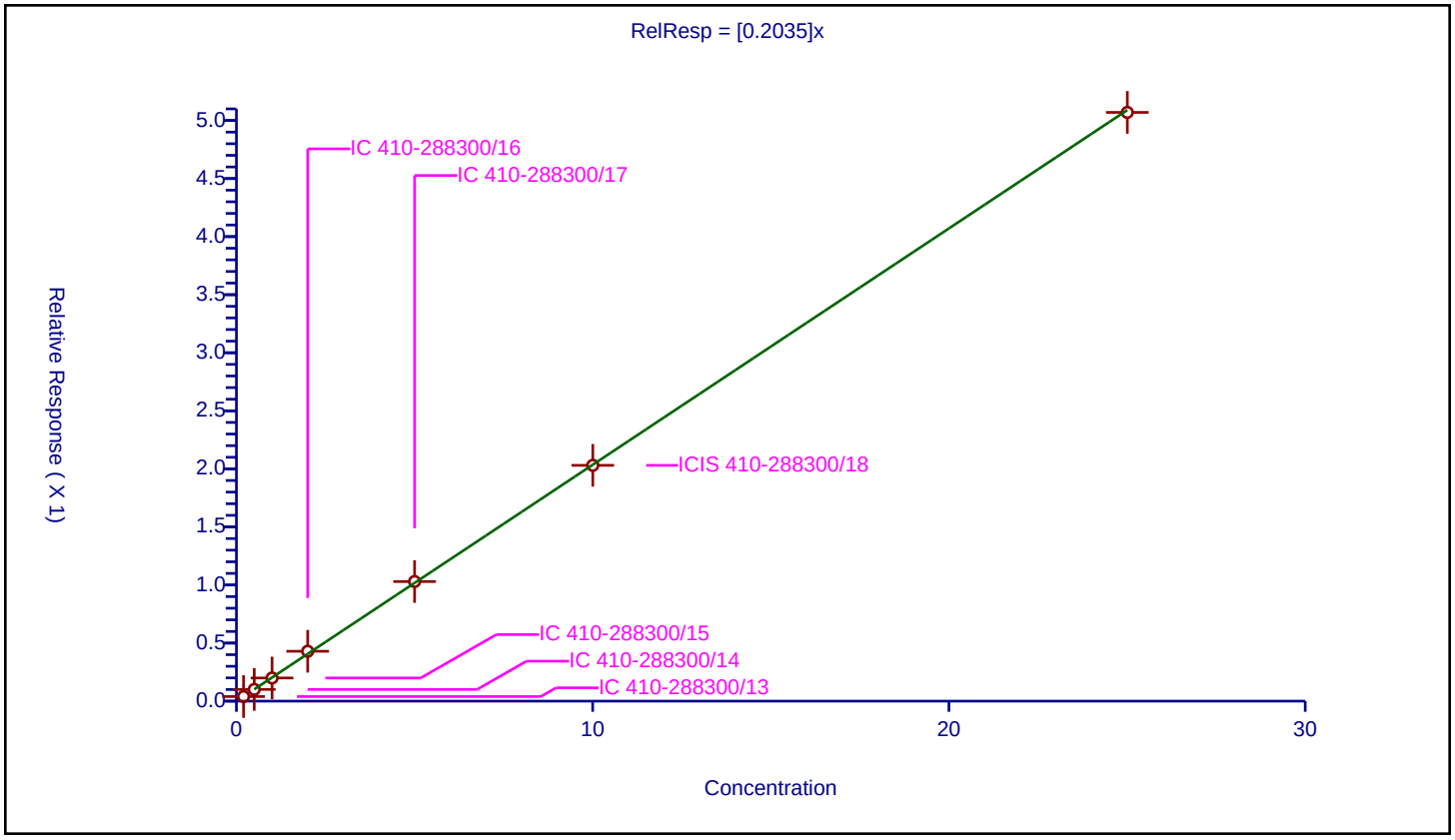
Curve Coefficients

Intercept:	0
Slope:	0.2035

Error Coefficients

Standard Error:	457000
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 410-288300/13	0.200057	0.039552	10.0	1993587.0	0.197703	Y
2	IC 410-288300/14	0.500143	0.100717	10.0	1985770.0	0.201376	Y
3	IC 410-288300/15	1.000286	0.199387	10.0	1978464.0	0.19933	Y
4	IC 410-288300/16	2.000572	0.429491	10.0	1976130.0	0.214684	Y
5	IC 410-288300/17	5.00143	1.02997	10.0	1966718.0	0.205935	Y
6	ICIS 410-288300/18	10.00286	2.030492	10.0	1988424.0	0.202991	Y
7	IC 410-288300/19	25.00715	5.069699	10.0	2013656.0	0.20273	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

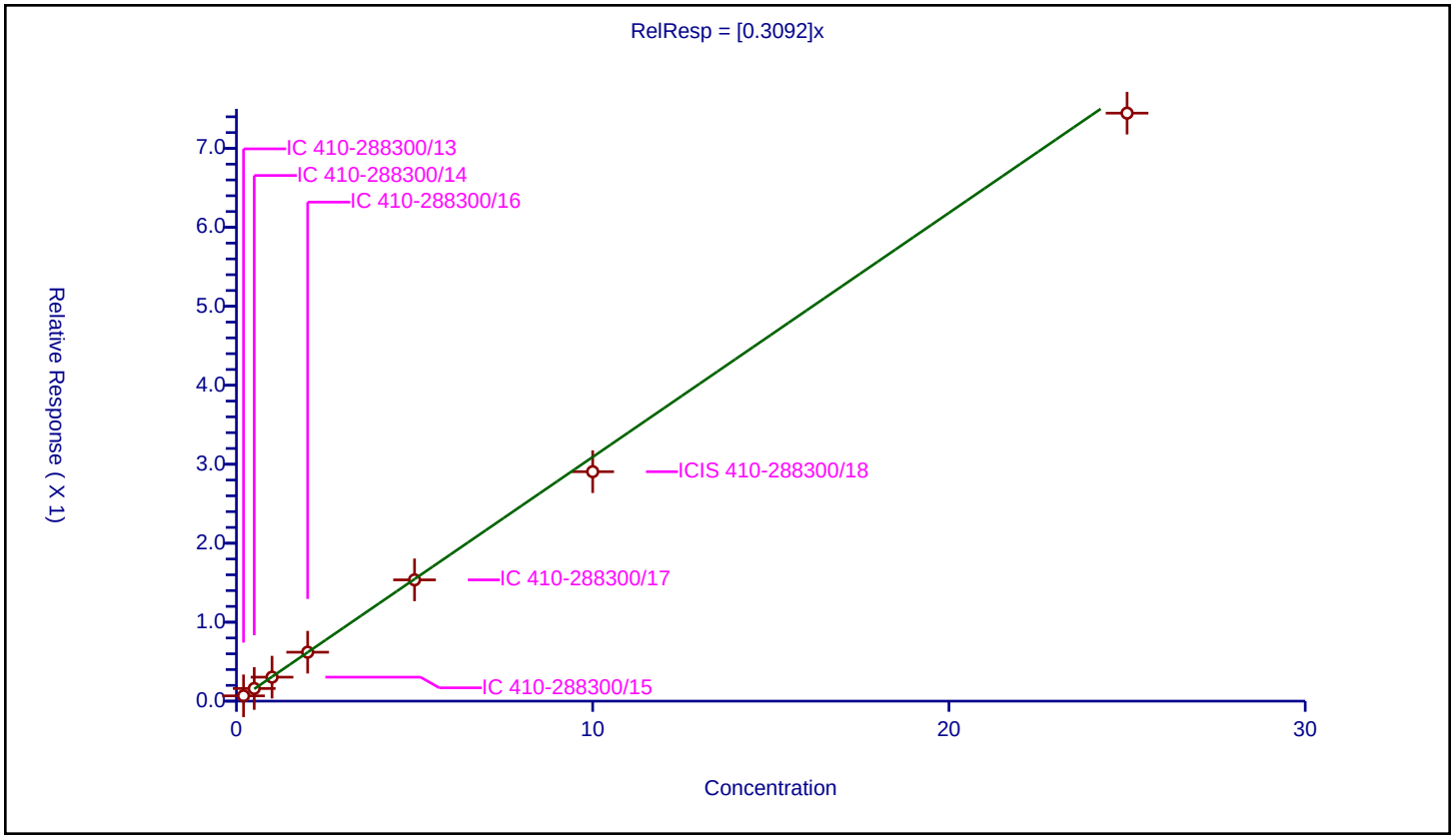
Curve Coefficients

Intercept:	0
Slope:	0.3092

Error Coefficients

Standard Error:	670000
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 410-288300/13	0.2	0.06701	10.0	1993587.0	0.335049	Y
2	IC 410-288300/14	0.5	0.159958	10.0	1985770.0	0.319916	Y
3	IC 410-288300/15	1.0	0.303741	10.0	1978464.0	0.303741	Y
4	IC 410-288300/16	2.0	0.619828	10.0	1976130.0	0.309914	Y
5	IC 410-288300/17	5.0	1.53569	10.0	1966718.0	0.307138	Y
6	ICIS 410-288300/18	10.0	2.905779	10.0	1988424.0	0.290578	Y
7	IC 410-288300/19	25.0	7.446267	10.0	2013656.0	0.297851	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

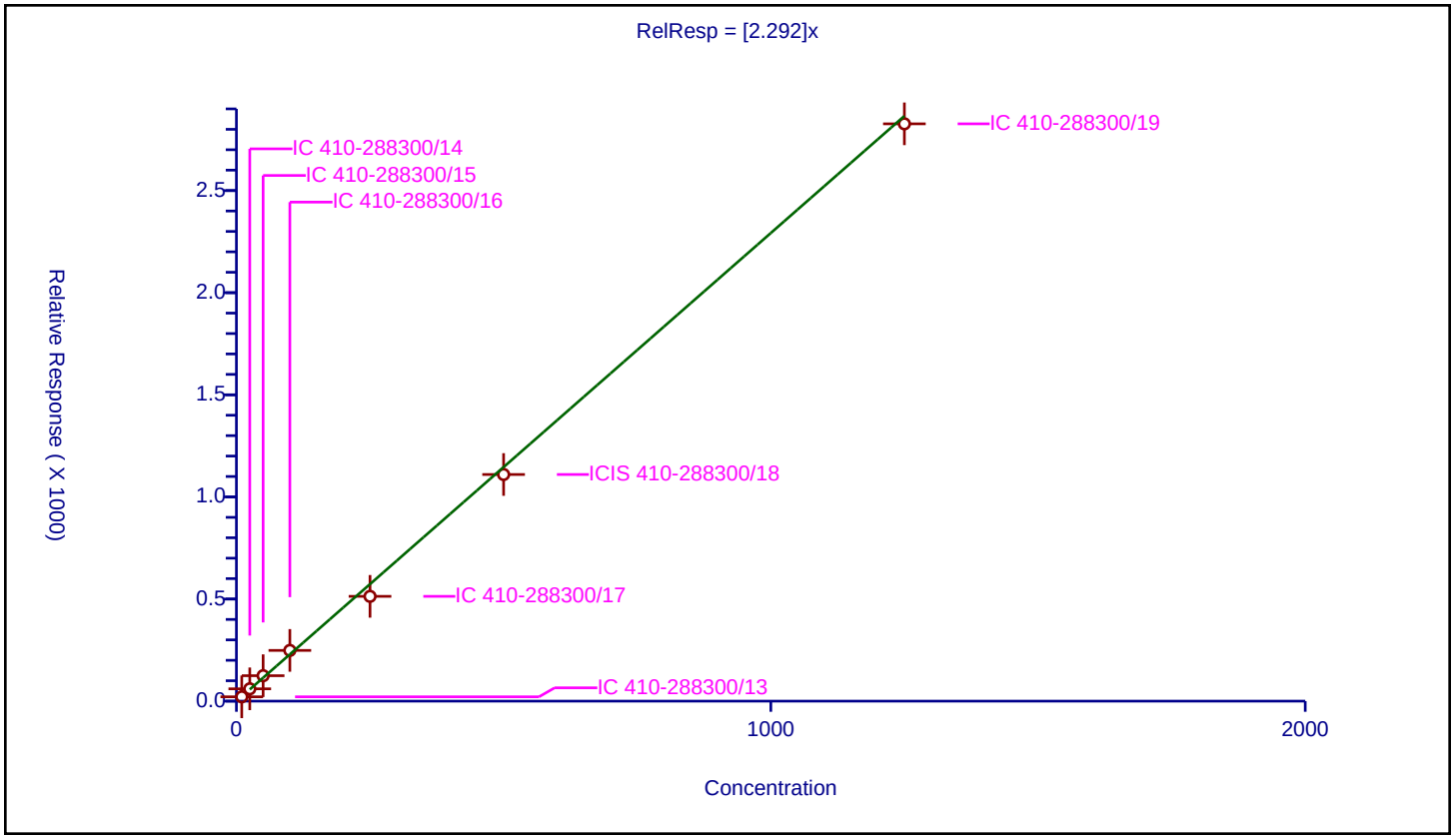
Curve Coefficients

Intercept:	0
Slope:	2.292

Error Coefficients

Standard Error:	3060000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	9.999752	21.220164	50.0	136580.0	2.122069	Y
2	IC 410-288300/14	24.999381	60.363212	50.0	132044.0	2.414588	Y
3	IC 410-288300/15	49.998762	124.549729	50.0	113154.0	2.491056	Y
4	IC 410-288300/16	99.997523	248.402971	50.0	117656.0	2.484091	Y
5	IC 410-288300/17	249.993808	513.079892	50.0	131878.0	2.05237	Y
6	ICIS 410-288300/18	499.987617	1109.7408	50.0	129707.0	2.219537	Y
7	IC 410-288300/19	1249.969042	2826.779452	50.0	119756.0	2.26148	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

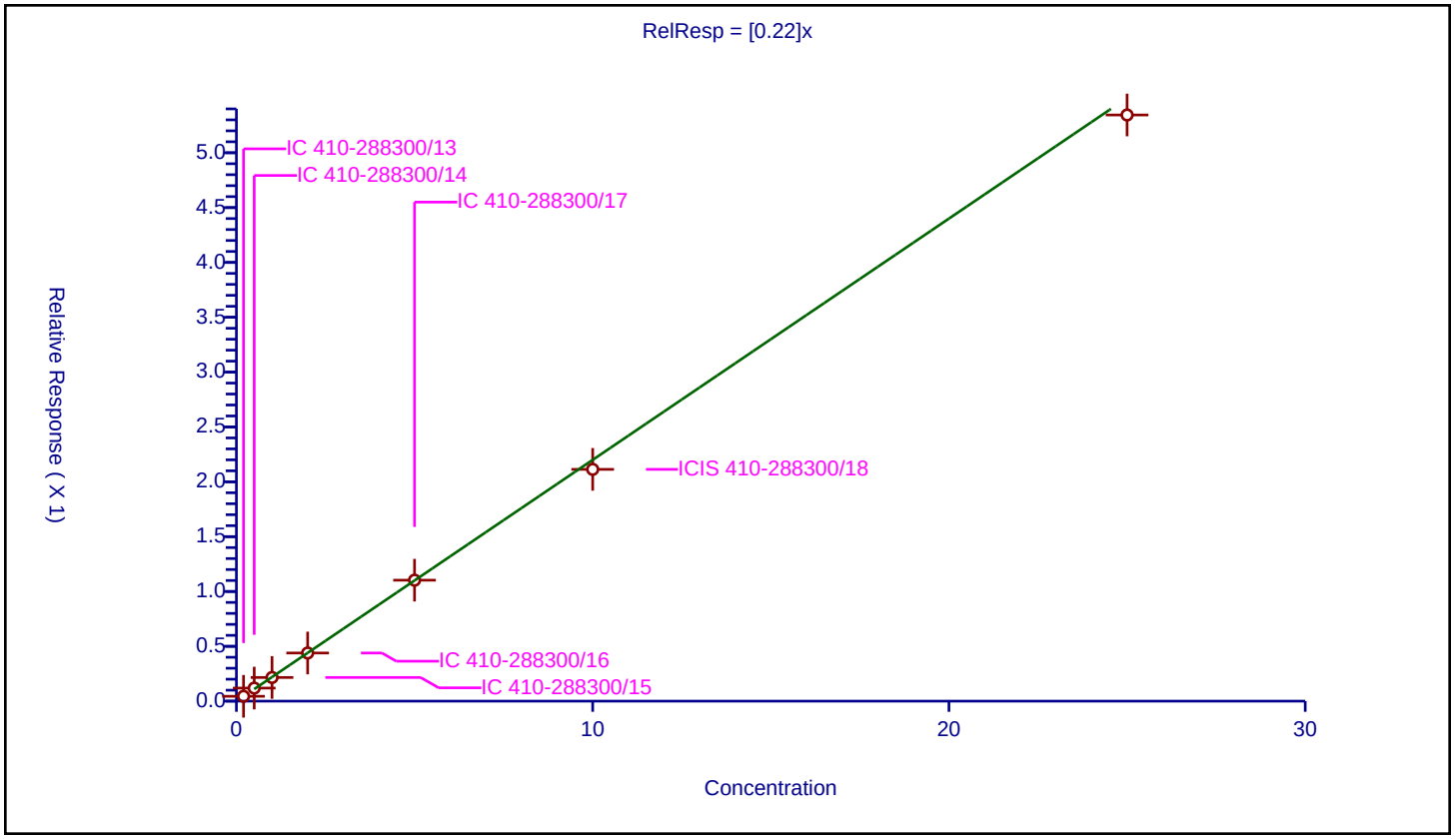
Curve Coefficients

Intercept:	0
Slope:	0.22

Error Coefficients

Standard Error:	482000
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 410-288300/13	0.2	0.044202	10.0	1993587.0	0.221009	Y
2	IC 410-288300/14	0.5	0.119007	10.0	1985770.0	0.238013	Y
3	IC 410-288300/15	1.0	0.215672	10.0	1978464.0	0.215672	Y
4	IC 410-288300/16	2.0	0.439015	10.0	1976130.0	0.219507	Y
5	IC 410-288300/17	5.0	1.102898	10.0	1966718.0	0.22058	Y
6	ICIS 410-288300/18	10.0	2.113302	10.0	1988424.0	0.21133	Y
7	IC 410-288300/19	25.0	5.344488	10.0	2013656.0	0.21378	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

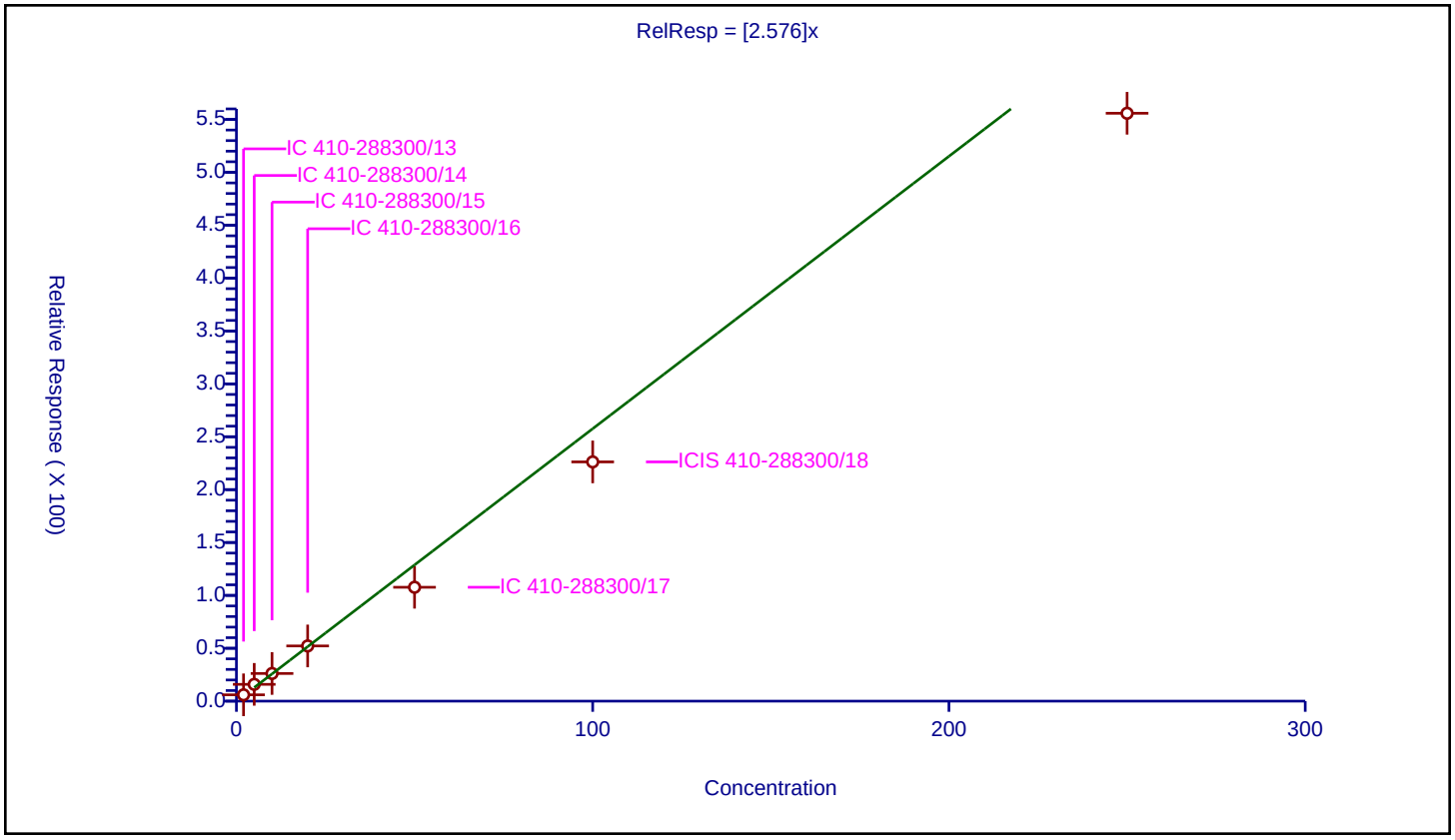
Curve Coefficients

Intercept:	0
Slope:	2.576

Error Coefficients

Standard Error:	608000
Relative Standard Error:	15.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.963

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	2.0	5.977083	50.0	136580.0	2.988542	Y
2	IC 410-288300/14	5.0	15.887507	50.0	132044.0	3.177501	Y
3	IC 410-288300/15	10.0	26.154621	50.0	113154.0	2.615462	Y
4	IC 410-288300/16	20.0	52.202183	50.0	117656.0	2.610109	Y
5	IC 410-288300/17	50.0	107.679446	50.0	131878.0	2.153589	Y
6	ICIS 410-288300/18	100.0	226.217166	50.0	129707.0	2.262172	Y
7	IC 410-288300/19	250.0	555.869852	50.0	119756.0	2.223479	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

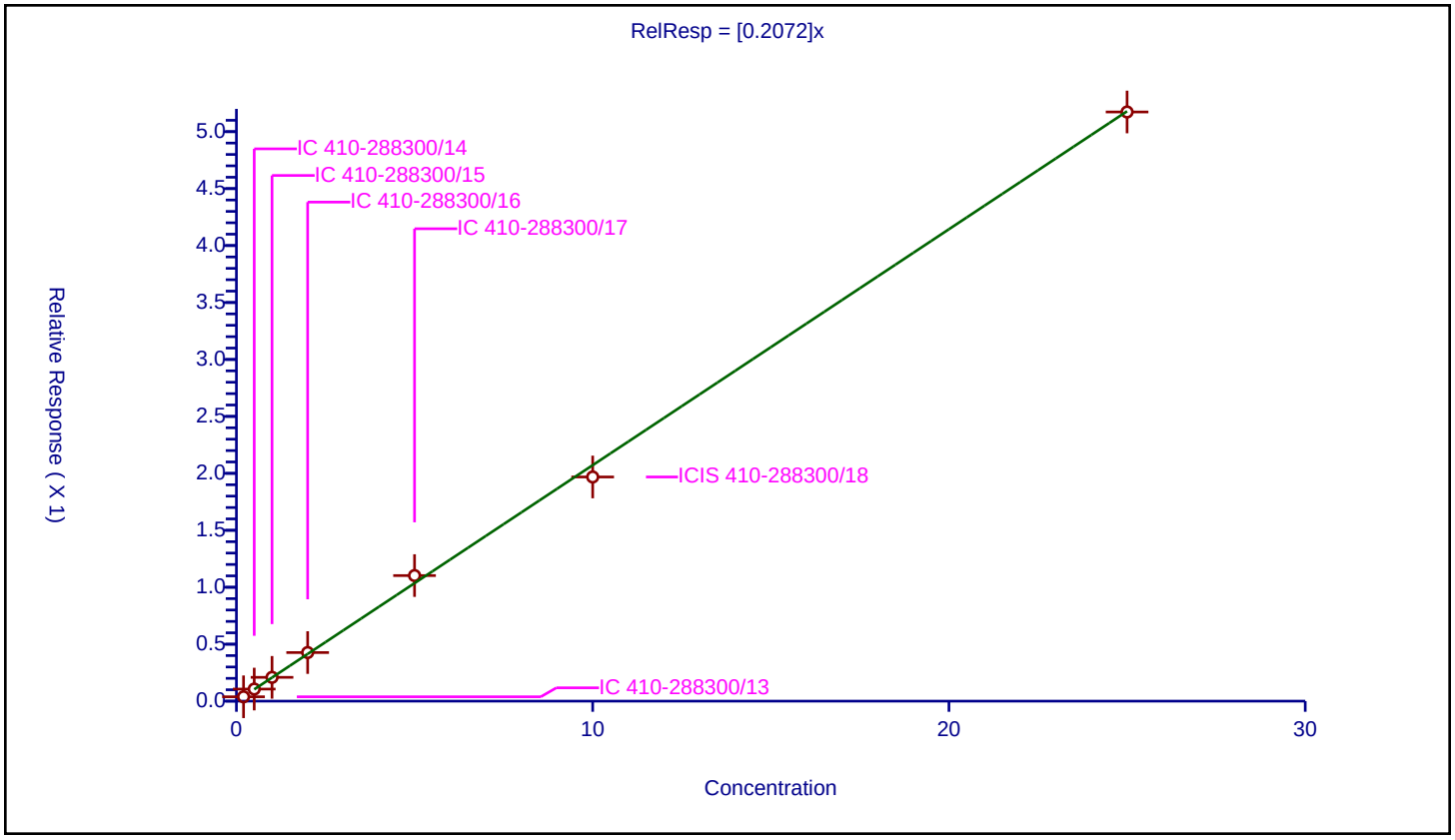
Curve Coefficients

Intercept:	0
Slope:	0.2072

Error Coefficients

Standard Error:	464000
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 410-288300/13	0.2	0.038313	10.0	1993587.0	0.191564	Y
2	IC 410-288300/14	0.5	0.10605	10.0	1985770.0	0.212099	Y
3	IC 410-288300/15	1.0	0.20899	10.0	1978464.0	0.20899	Y
4	IC 410-288300/16	2.0	0.426576	10.0	1976130.0	0.213288	Y
5	IC 410-288300/17	5.0	1.102512	10.0	1966718.0	0.220502	Y
6	ICIS 410-288300/18	10.0	1.968298	10.0	1988424.0	0.19683	Y
7	IC 410-288300/19	25.0	5.17279	10.0	2013656.0	0.206912	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

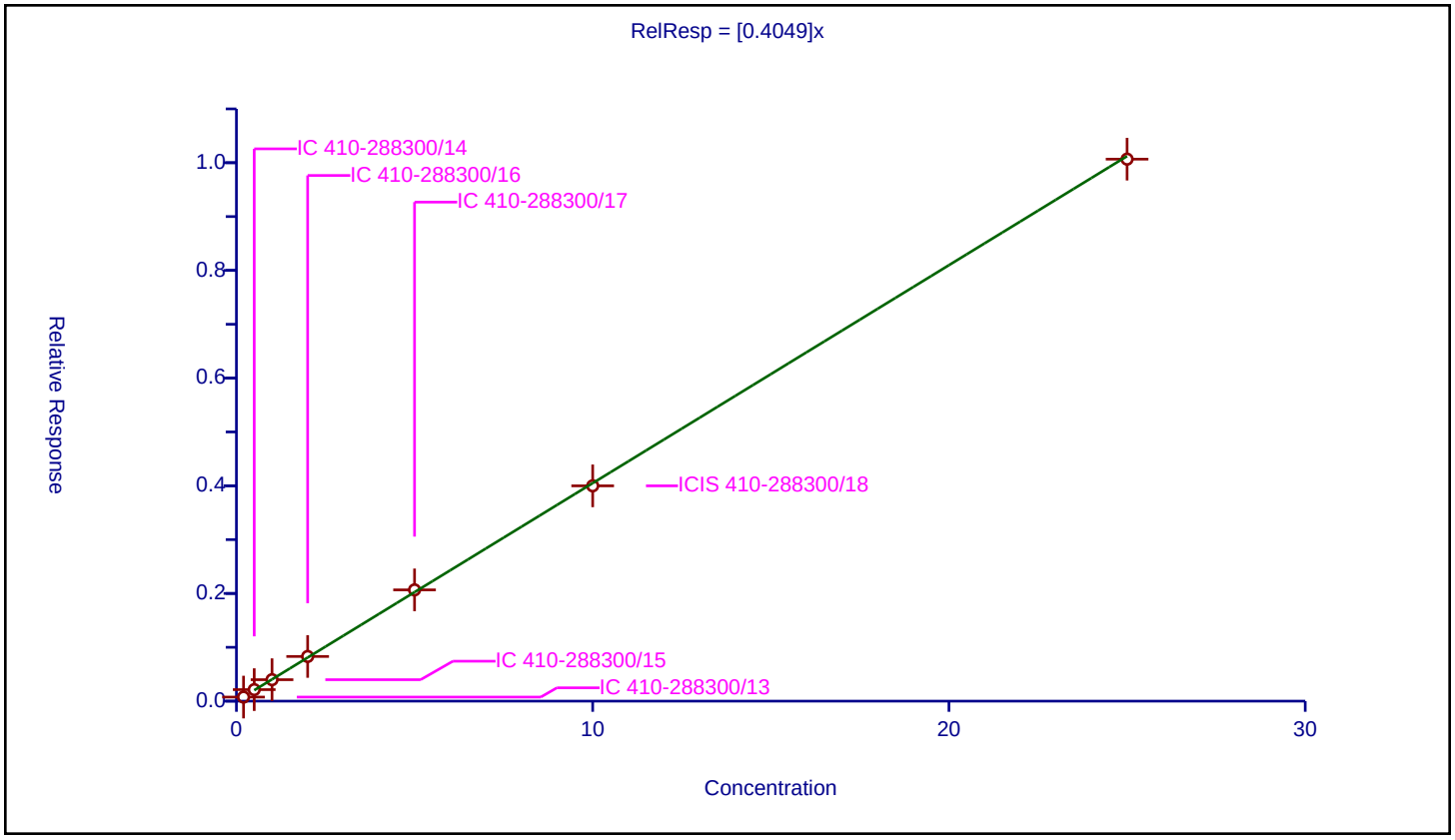
Curve Coefficients

Intercept:	0
Slope:	0.4049

Error Coefficients

Standard Error:	908000
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 410-288300/13	0.2	0.075477	10.0	1993587.0	0.377385	Y
2	IC 410-288300/14	0.5	0.213711	10.0	1985770.0	0.427421	Y
3	IC 410-288300/15	1.0	0.398531	10.0	1978464.0	0.398531	Y
4	IC 410-288300/16	2.0	0.829829	10.0	1976130.0	0.414915	Y
5	IC 410-288300/17	5.0	2.066702	10.0	1966718.0	0.41334	Y
6	ICIS 410-288300/18	10.0	3.998549	10.0	1988424.0	0.399855	Y
7	IC 410-288300/19	25.0	10.066695	10.0	2013656.0	0.402668	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

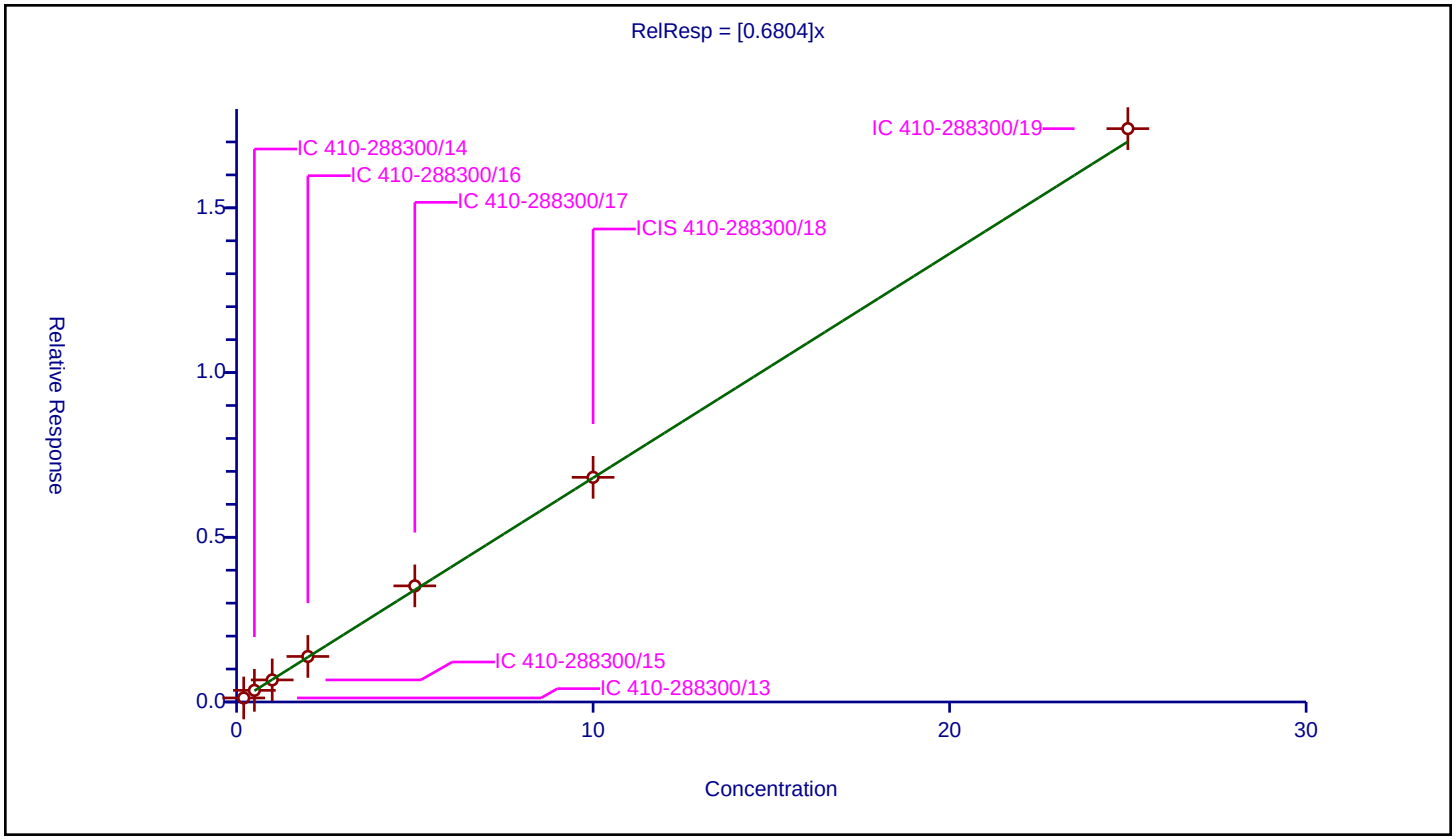
Curve Coefficients

Intercept:	0
Slope:	0.6804

Error Coefficients

Standard Error:	1570000
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 410-288300/13	0.2	0.122588	10.0	1993587.0	0.61294	Y
2	IC 410-288300/14	0.5	0.352997	10.0	1985770.0	0.705993	Y
3	IC 410-288300/15	1.0	0.669706	10.0	1978464.0	0.669706	Y
4	IC 410-288300/16	2.0	1.382186	10.0	1976130.0	0.691093	Y
5	IC 410-288300/17	5.0	3.524994	10.0	1966718.0	0.704999	Y
6	ICIS 410-288300/18	10.0	6.819677	10.0	1988424.0	0.681968	Y
7	IC 410-288300/19	25.0	17.404298	10.0	2013656.0	0.696172	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

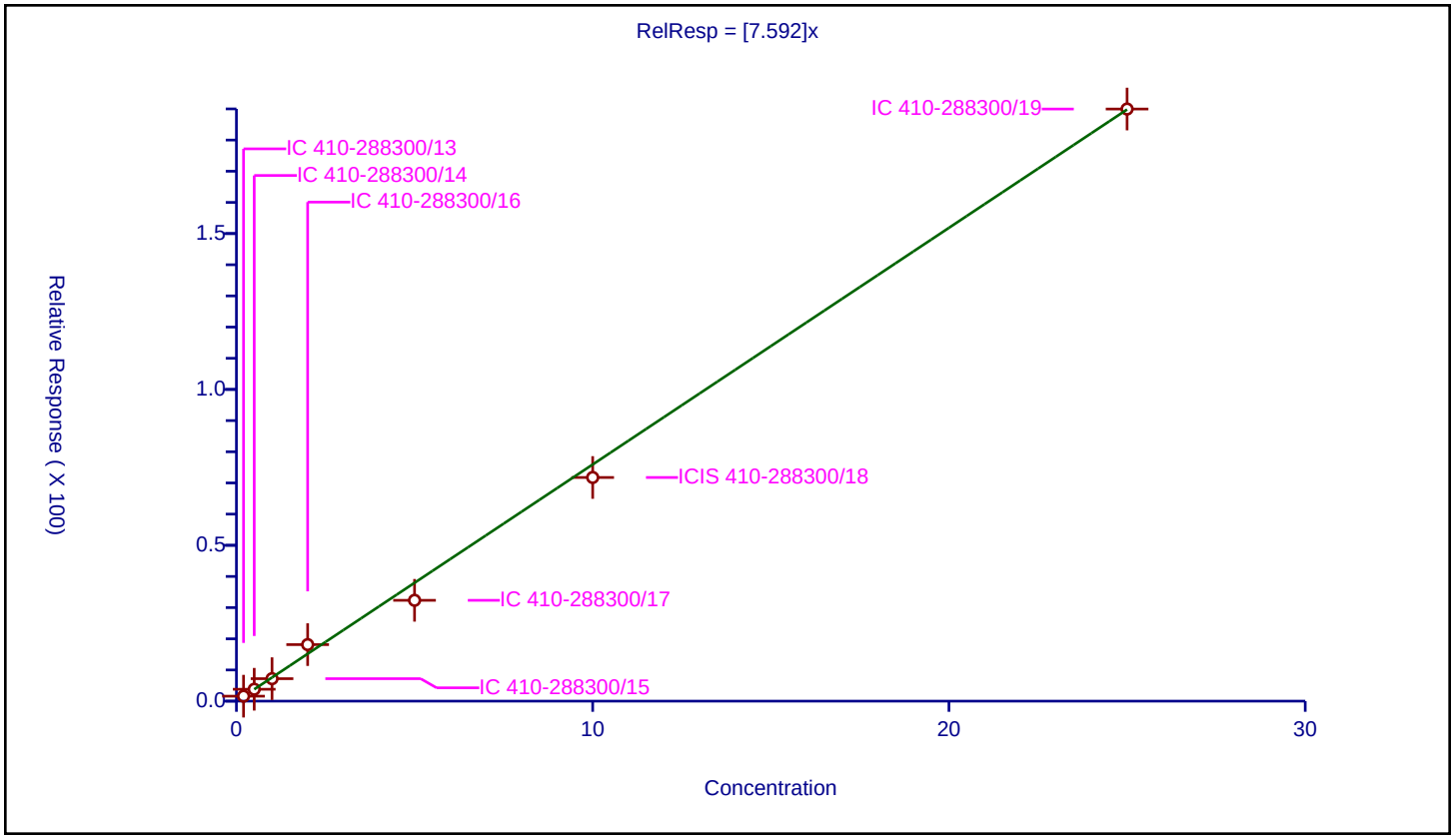
Curve Coefficients

Intercept:	0
Slope:	7.592

Error Coefficients

Standard Error:	205000
Relative Standard Error:	10.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	1.597598	50.0	136580.0	7.987992	Y
2	IC 410-288300/14	0.5	3.818045	50.0	132044.0	7.636091	Y
3	IC 410-288300/15	1.0	7.210085	50.0	113154.0	7.210085	Y
4	IC 410-288300/16	2.0	18.136347	50.0	117656.0	9.068173	Y
5	IC 410-288300/17	5.0	32.344667	50.0	131878.0	6.468933	Y
6	ICIS 410-288300/18	10.0	71.755572	50.0	129707.0	7.175557	Y
7	IC 410-288300/19	25.0	189.961255	50.0	119756.0	7.59845	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

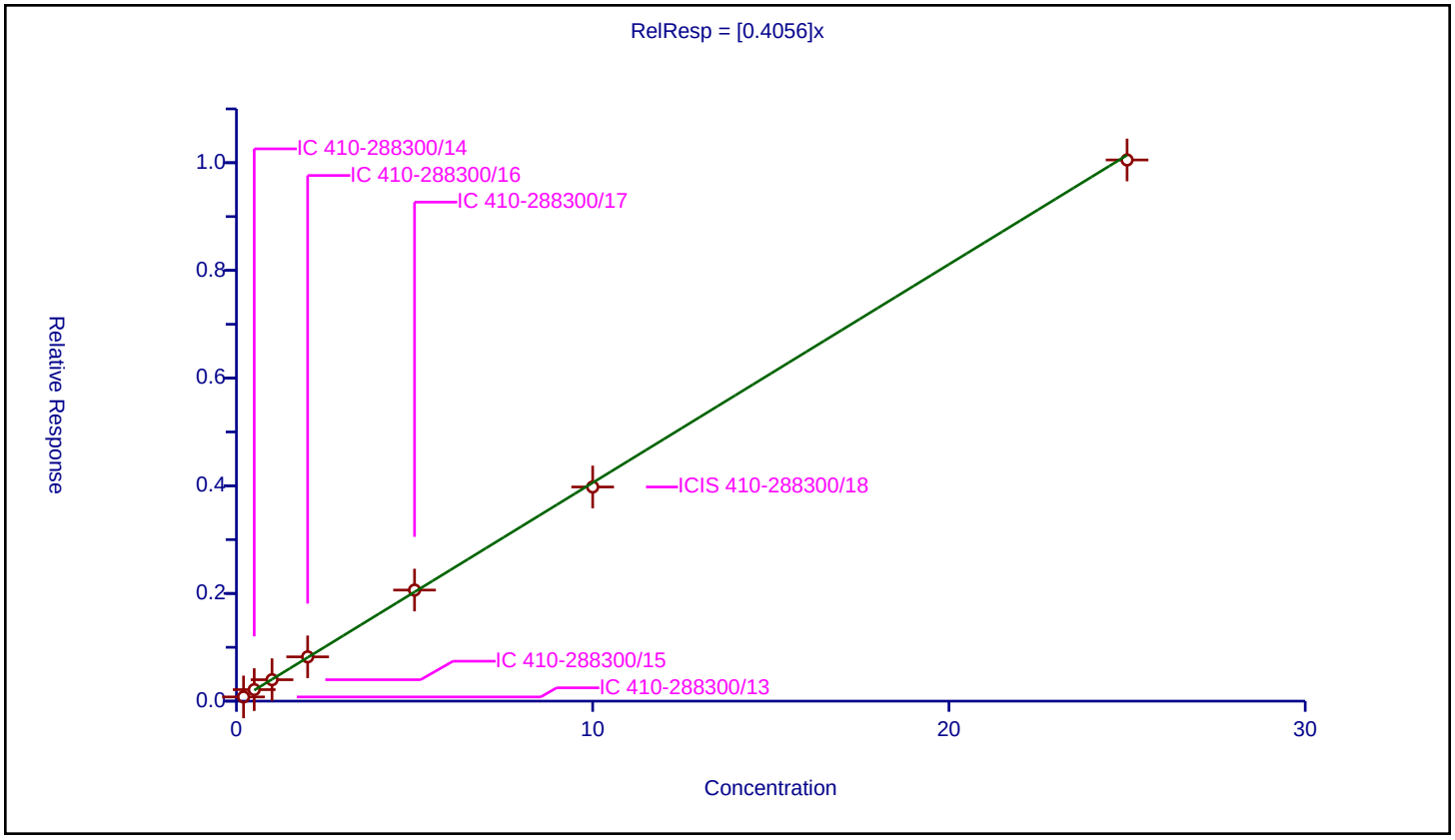
Curve Coefficients

Intercept:	0
Slope:	0.4056

Error Coefficients

Standard Error:	906000
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 410-288300/13	0.2	0.07808	10.0	1993587.0	0.390402	Y
2	IC 410-288300/14	0.5	0.213796	10.0	1985770.0	0.427592	Y
3	IC 410-288300/15	1.0	0.397758	10.0	1978464.0	0.397758	Y
4	IC 410-288300/16	2.0	0.822481	10.0	1976130.0	0.411241	Y
5	IC 410-288300/17	5.0	2.062914	10.0	1966718.0	0.412583	Y
6	ICIS 410-288300/18	10.0	3.977708	10.0	1988424.0	0.397771	Y
7	IC 410-288300/19	25.0	10.051791	10.0	2013656.0	0.402072	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

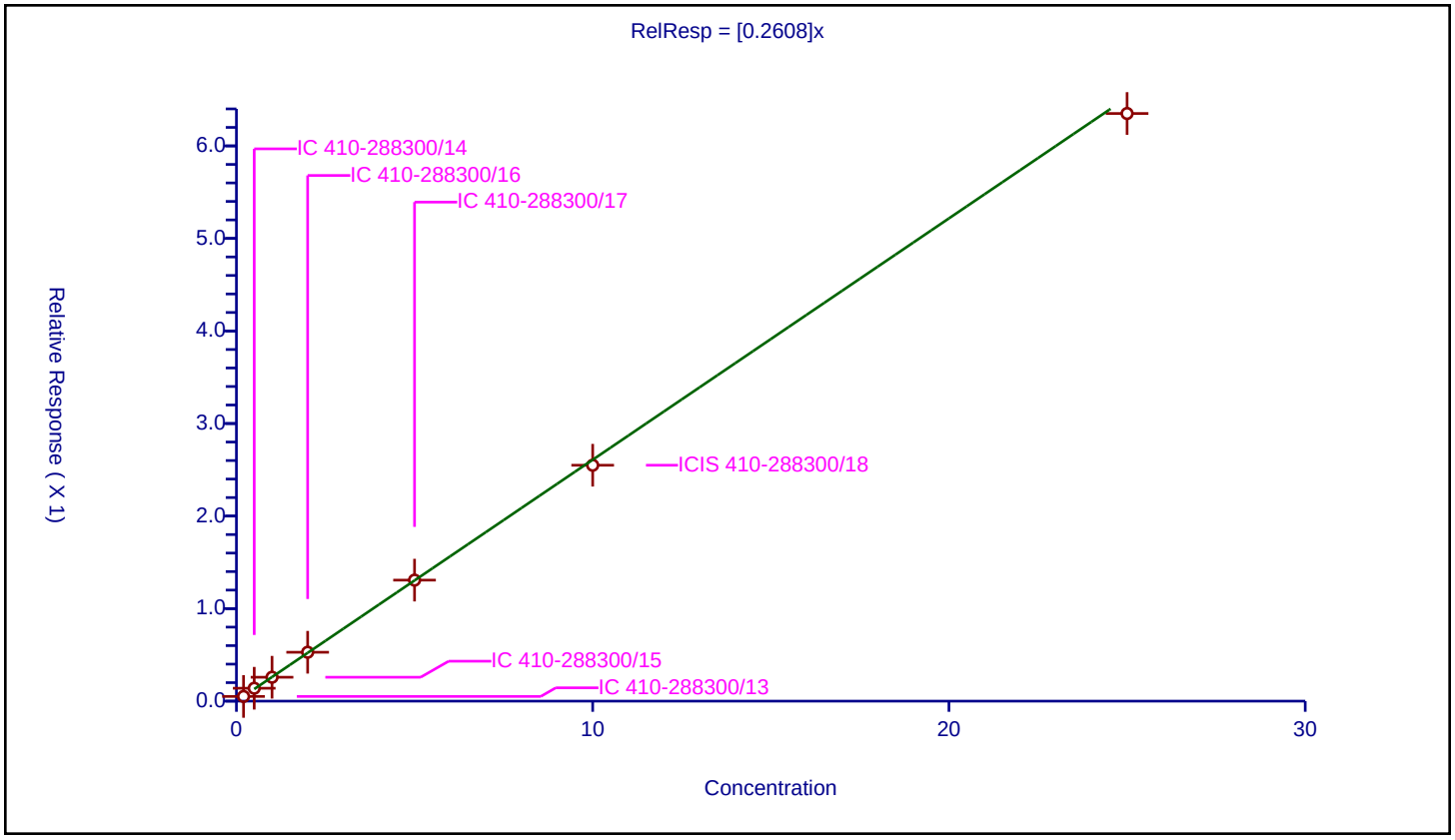
Curve Coefficients

Intercept:	0
Slope:	0.2608

Error Coefficients

Standard Error:	573000
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 410-288300/13	0.2	0.050888	10.0	1993587.0	0.254441	Y
2	IC 410-288300/14	0.5	0.139321	10.0	1985770.0	0.278643	Y
3	IC 410-288300/15	1.0	0.25821	10.0	1978464.0	0.25821	Y
4	IC 410-288300/16	2.0	0.528148	10.0	1976130.0	0.264074	Y
5	IC 410-288300/17	5.0	1.307757	10.0	1966718.0	0.261551	Y
6	ICIS 410-288300/18	10.0	2.54921	10.0	1988424.0	0.254921	Y
7	IC 410-288300/19	25.0	6.350181	10.0	2013656.0	0.254007	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

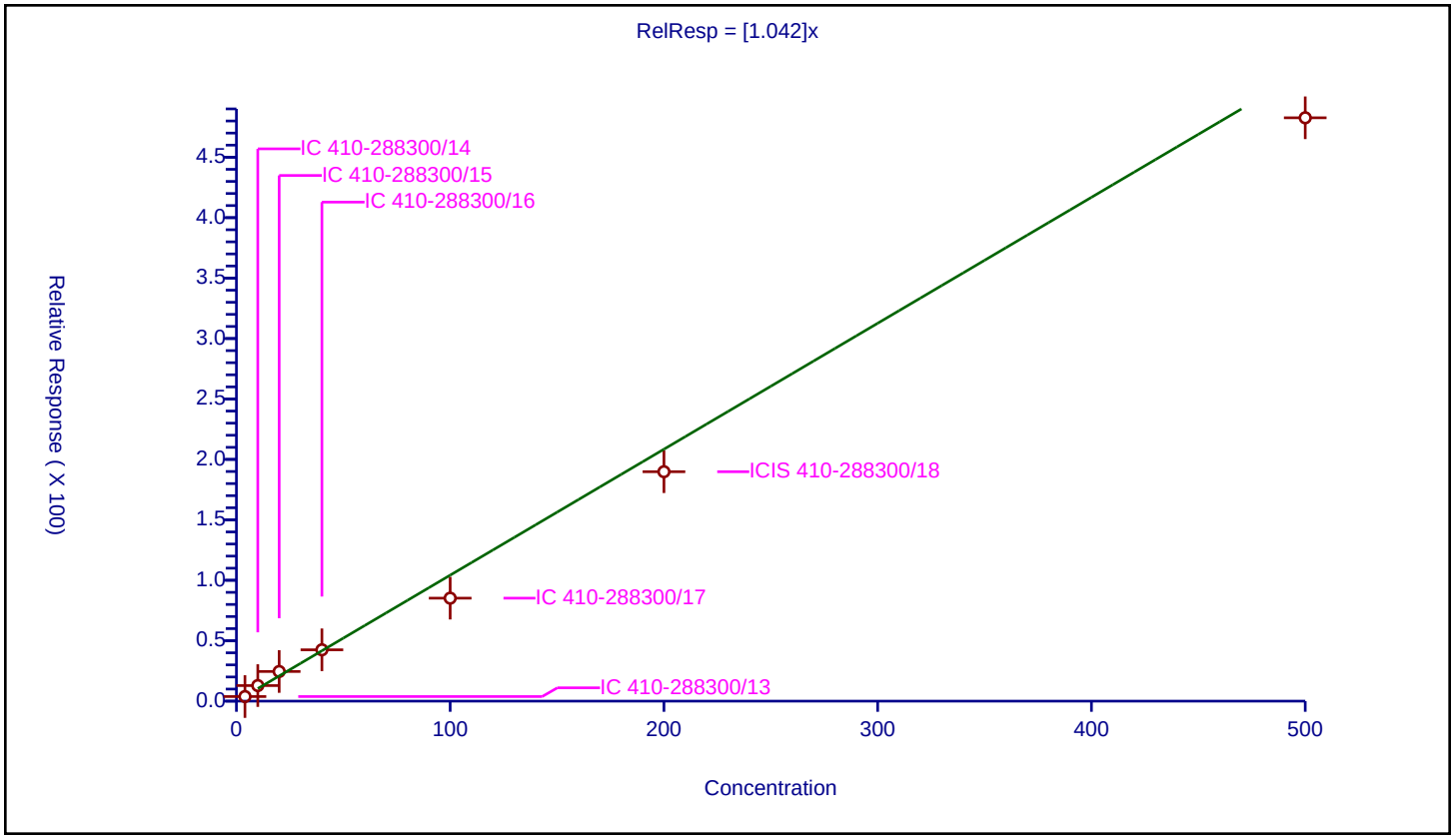
Curve Coefficients

Intercept:	0
Slope:	1.042

Error Coefficients

Standard Error:	523000
Relative Standard Error:	15.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.968

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	4.0	3.809123	50.0	136580.0	0.952281	Y
2	IC 410-288300/14	10.0	12.869574	50.0	132044.0	1.286957	Y
3	IC 410-288300/15	20.0	24.542659	50.0	113154.0	1.227133	Y
4	IC 410-288300/16	40.0	42.479772	50.0	117656.0	1.061994	Y
5	IC 410-288300/17	100.0	85.193891	50.0	131878.0	0.851939	Y
6	ICIS 410-288300/18	200.0	189.823602	50.0	129707.0	0.949118	Y
7	IC 410-288300/19	500.0	482.630098	50.0	119756.0	0.96526	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

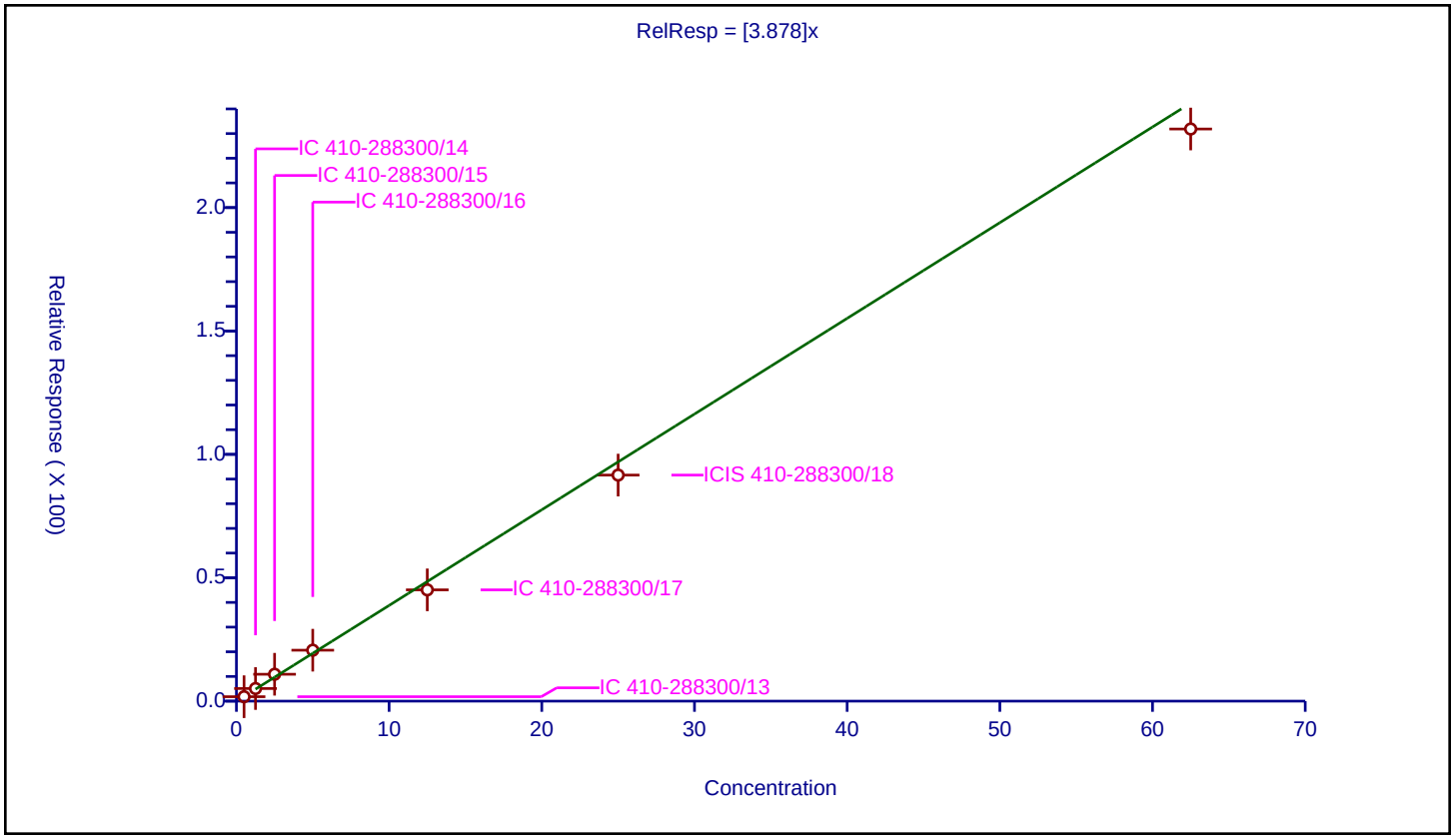
Curve Coefficients

Intercept:	0
Slope:	3.878

Error Coefficients

Standard Error:	252000
Relative Standard Error:	7.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.5	1.795285	50.0	136580.0	3.59057	Y
2	IC 410-288300/14	1.25	5.110418	50.0	132044.0	4.088334	Y
3	IC 410-288300/15	2.5	10.892677	50.0	113154.0	4.357071	Y
4	IC 410-288300/16	5.0	20.636857	50.0	117656.0	4.127371	Y
5	IC 410-288300/17	12.5	45.096604	50.0	131878.0	3.607728	Y
6	ICIS 410-288300/18	25.0	91.609165	50.0	129707.0	3.664367	Y
7	IC 410-288300/19	62.5	231.849344	50.0	119756.0	3.709589	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

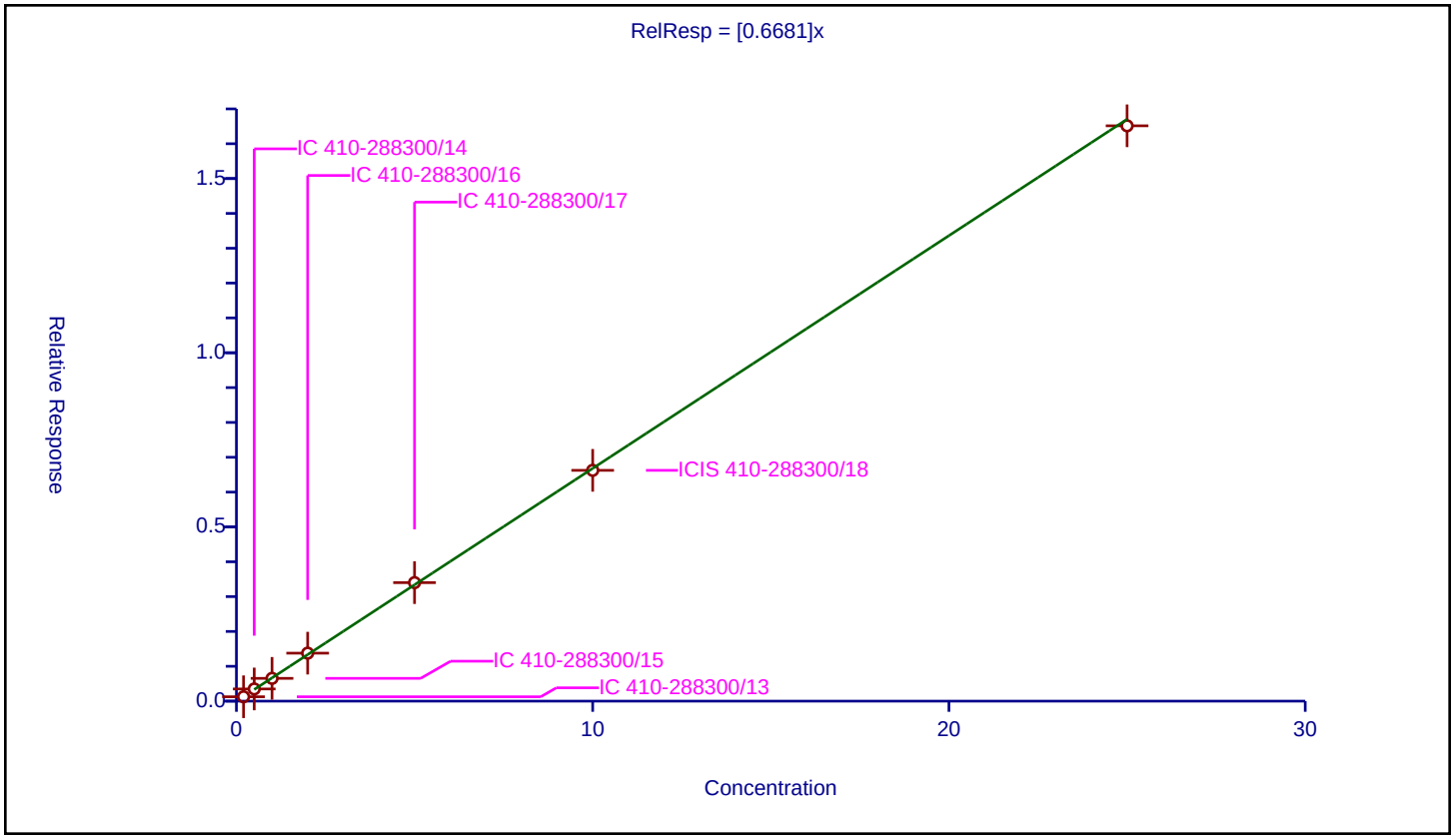
Curve Coefficients

Intercept:	0
Slope:	0.6681

Error Coefficients

Standard Error:	1490000
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 410-288300/13	0.2	0.126064	10.0	1993587.0	0.630321	Y
2	IC 410-288300/14	0.5	0.35002	10.0	1985770.0	0.700041	Y
3	IC 410-288300/15	1.0	0.653916	10.0	1978464.0	0.653916	Y
4	IC 410-288300/16	2.0	1.377526	10.0	1976130.0	0.688763	Y
5	IC 410-288300/17	5.0	3.401804	10.0	1966718.0	0.680361	Y
6	ICIS 410-288300/18	10.0	6.625212	10.0	1988424.0	0.662521	Y
7	IC 410-288300/19	25.0	16.514782	10.0	2013656.0	0.660591	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

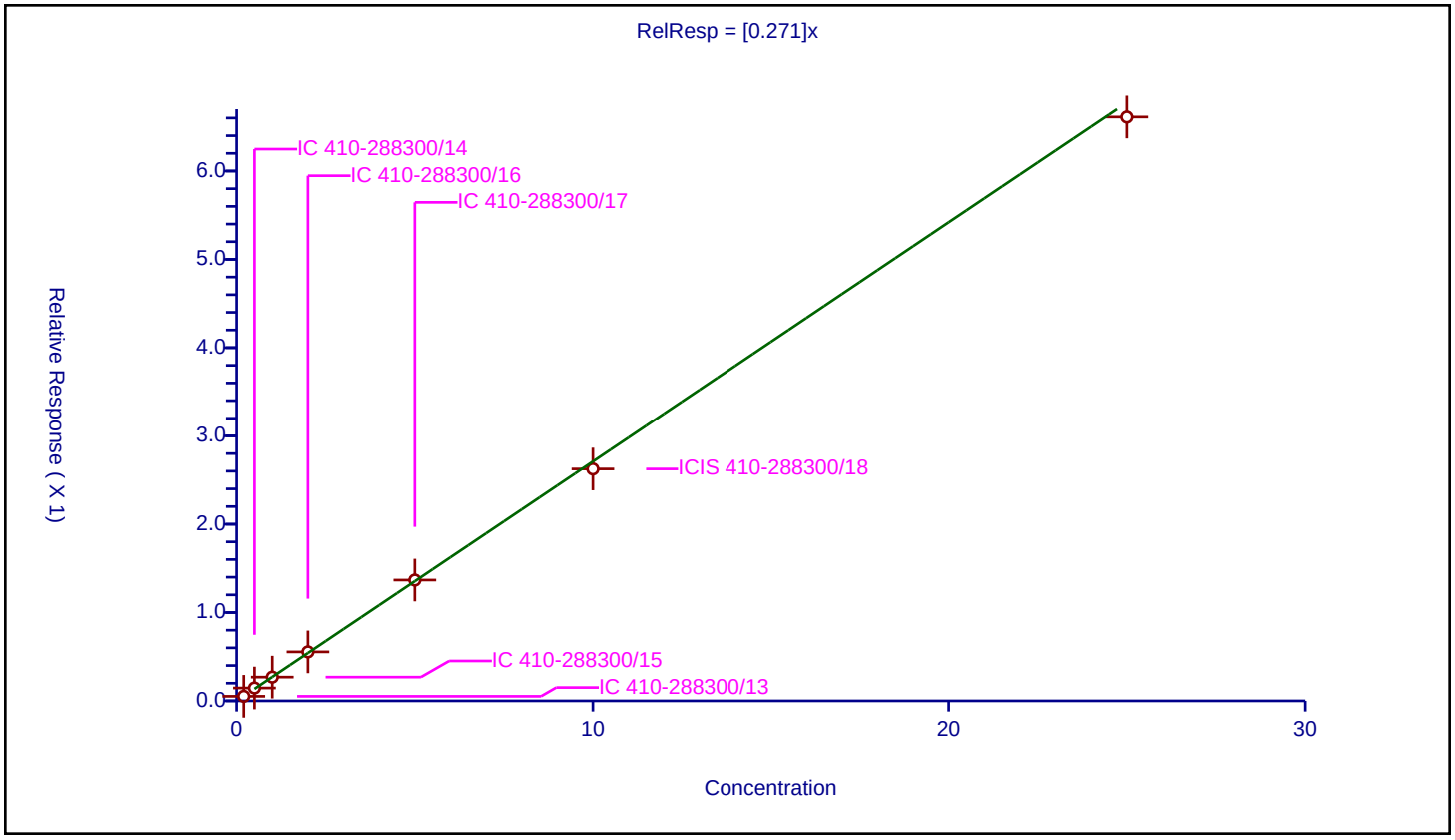
Curve Coefficients

Intercept:	0
Slope:	0.271

Error Coefficients

Standard Error:	596000
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 410-288300/13	0.2	0.051821	10.0	1993587.0	0.259106	Y
2	IC 410-288300/14	0.5	0.145566	10.0	1985770.0	0.291131	Y
3	IC 410-288300/15	1.0	0.26885	10.0	1978464.0	0.26885	Y
4	IC 410-288300/16	2.0	0.554412	10.0	1976130.0	0.277206	Y
5	IC 410-288300/17	5.0	1.367847	10.0	1966718.0	0.273569	Y
6	ICIS 410-288300/18	10.0	2.62533	10.0	1988424.0	0.262533	Y
7	IC 410-288300/19	25.0	6.61177	10.0	2013656.0	0.264471	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

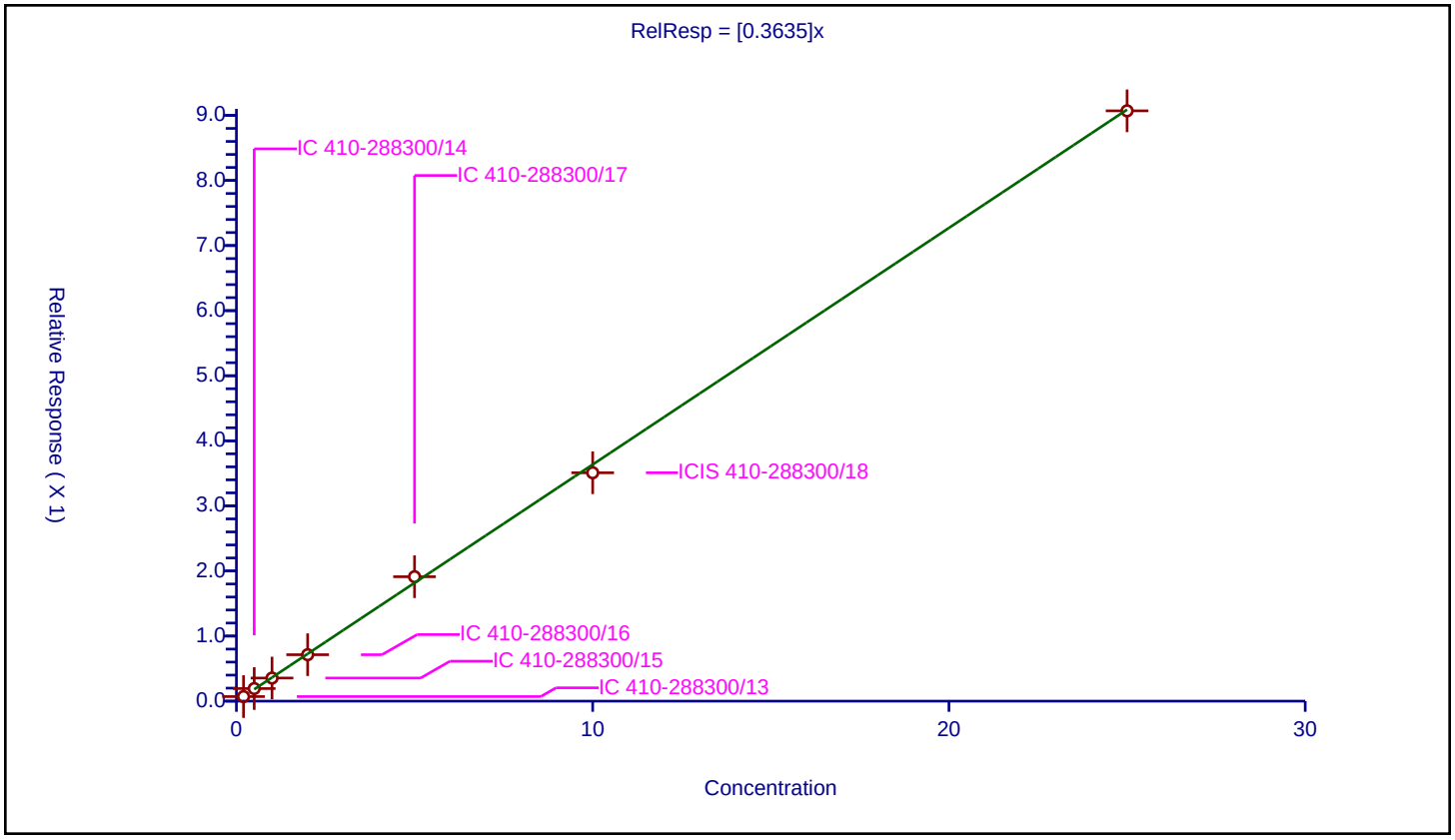
Curve Coefficients

Intercept:	0
Slope:	0.3635

Error Coefficients

Standard Error:	816000
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 410-288300/13	0.2	0.07015	10.0	1993587.0	0.35075	Y
2	IC 410-288300/14	0.5	0.193245	10.0	1985770.0	0.38649	Y
3	IC 410-288300/15	1.0	0.354826	10.0	1978464.0	0.354826	Y
4	IC 410-288300/16	2.0	0.713399	10.0	1976130.0	0.3567	Y
5	IC 410-288300/17	5.0	1.911743	10.0	1966718.0	0.382349	Y
6	ICIS 410-288300/18	10.0	3.509086	10.0	1988424.0	0.350909	Y
7	IC 410-288300/19	25.0	9.069995	10.0	2013656.0	0.3628	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

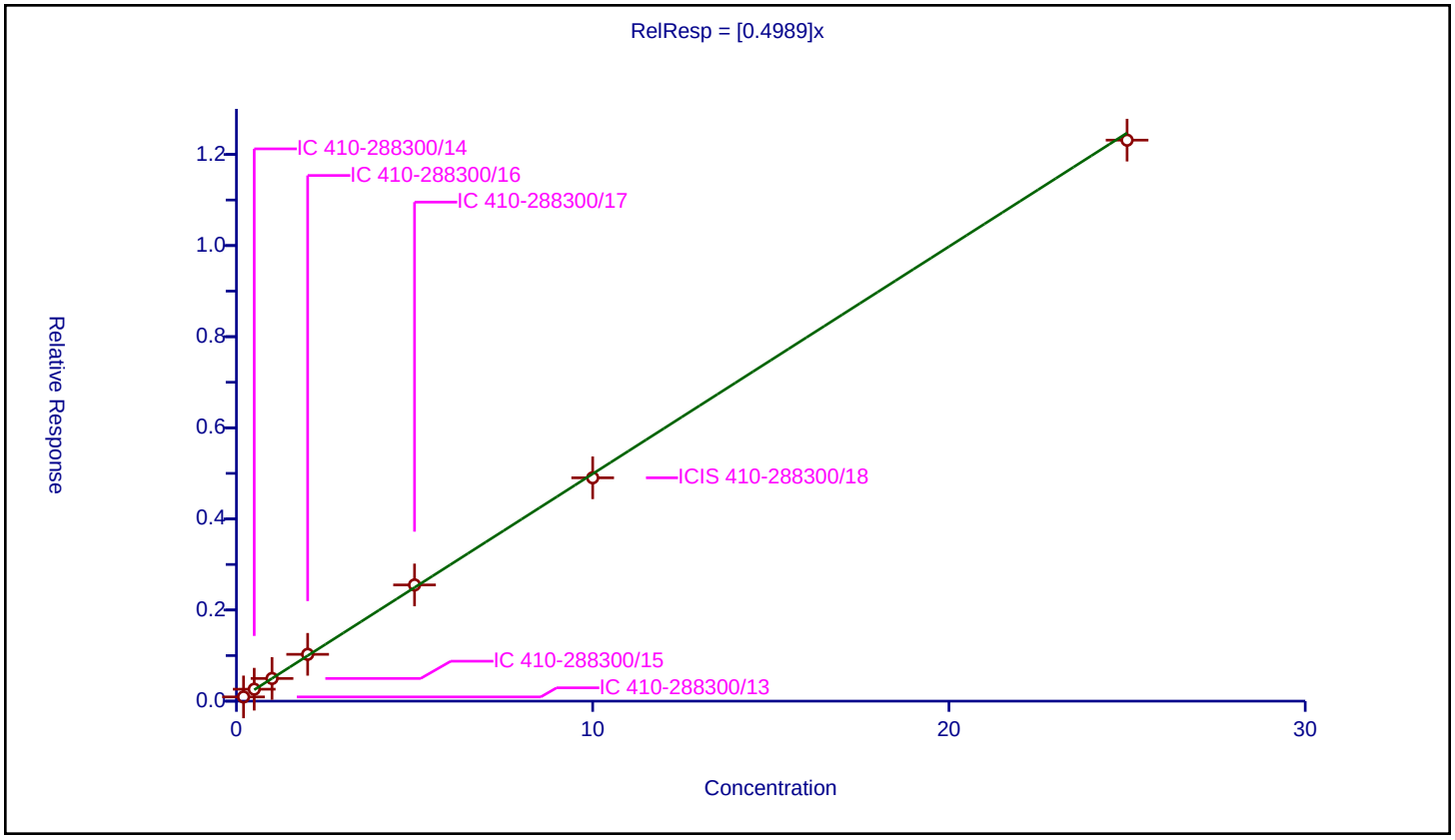
Curve Coefficients

Intercept:	0
Slope:	0.4989

Error Coefficients

Standard Error:	1110000
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 410-288300/13	0.2	0.092617	10.0	1993587.0	0.463085	Y
2	IC 410-288300/14	0.5	0.262266	10.0	1985770.0	0.524532	Y
3	IC 410-288300/15	1.0	0.497896	10.0	1978464.0	0.497896	Y
4	IC 410-288300/16	2.0	1.027281	10.0	1976130.0	0.51364	Y
5	IC 410-288300/17	5.0	2.550767	10.0	1966718.0	0.510153	Y
6	ICIS 410-288300/18	10.0	4.902606	10.0	1988424.0	0.490261	Y
7	IC 410-288300/19	25.0	12.31394	10.0	2013656.0	0.492558	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

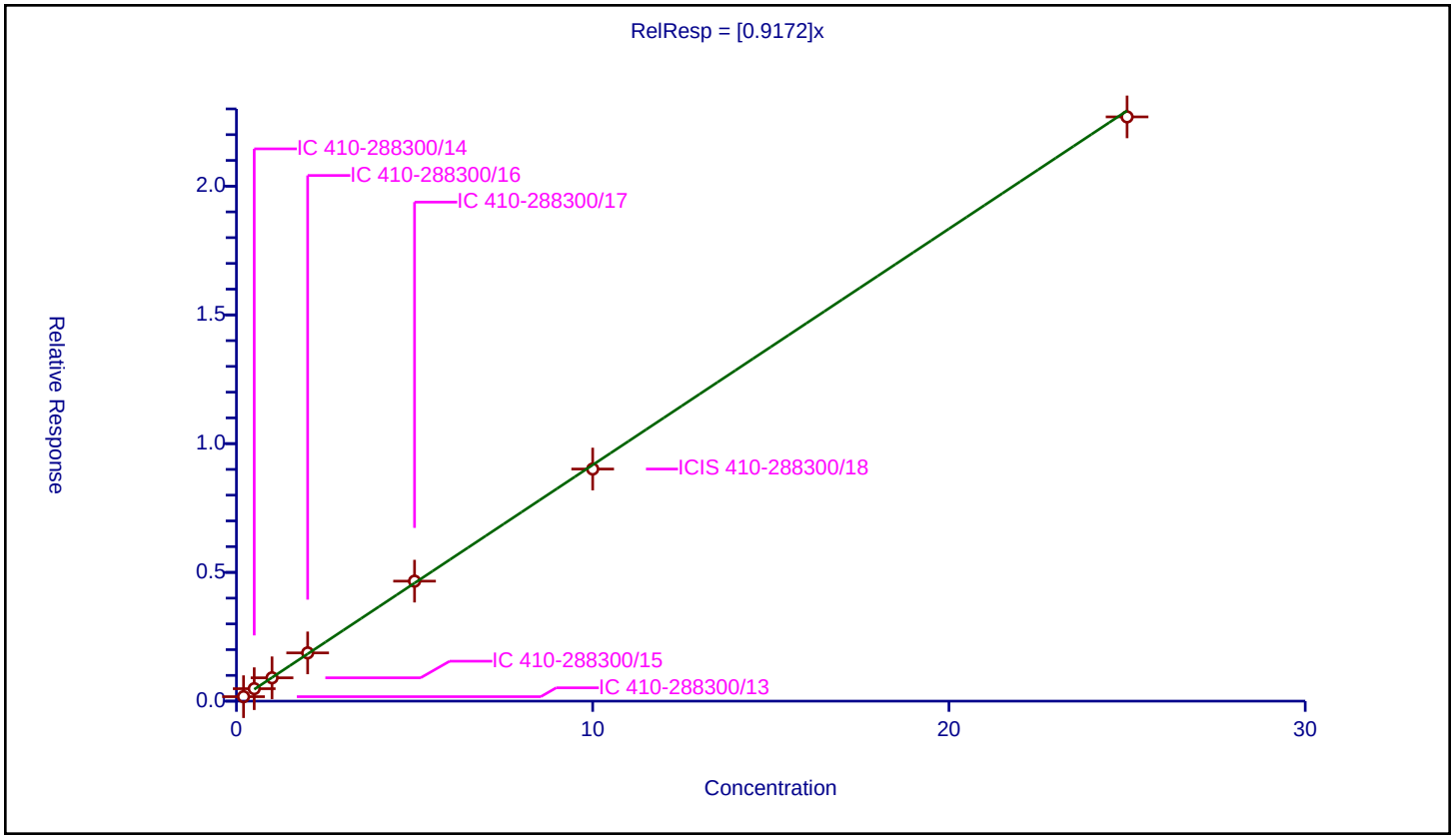
Curve Coefficients

Intercept:	0
Slope:	0.9172

Error Coefficients

Standard Error:	2050000
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 410-288300/13	0.2	0.173622	10.0	1993587.0	0.868109	Y
2	IC 410-288300/14	0.5	0.483958	10.0	1985770.0	0.967917	Y
3	IC 410-288300/15	1.0	0.906072	10.0	1978464.0	0.906072	Y
4	IC 410-288300/16	2.0	1.873713	10.0	1976130.0	0.936856	Y
5	IC 410-288300/17	5.0	4.660617	10.0	1966718.0	0.932123	Y
6	ICIS 410-288300/18	10.0	9.014204	10.0	1988424.0	0.90142	Y
7	IC 410-288300/19	25.0	22.689506	10.0	2013656.0	0.90758	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

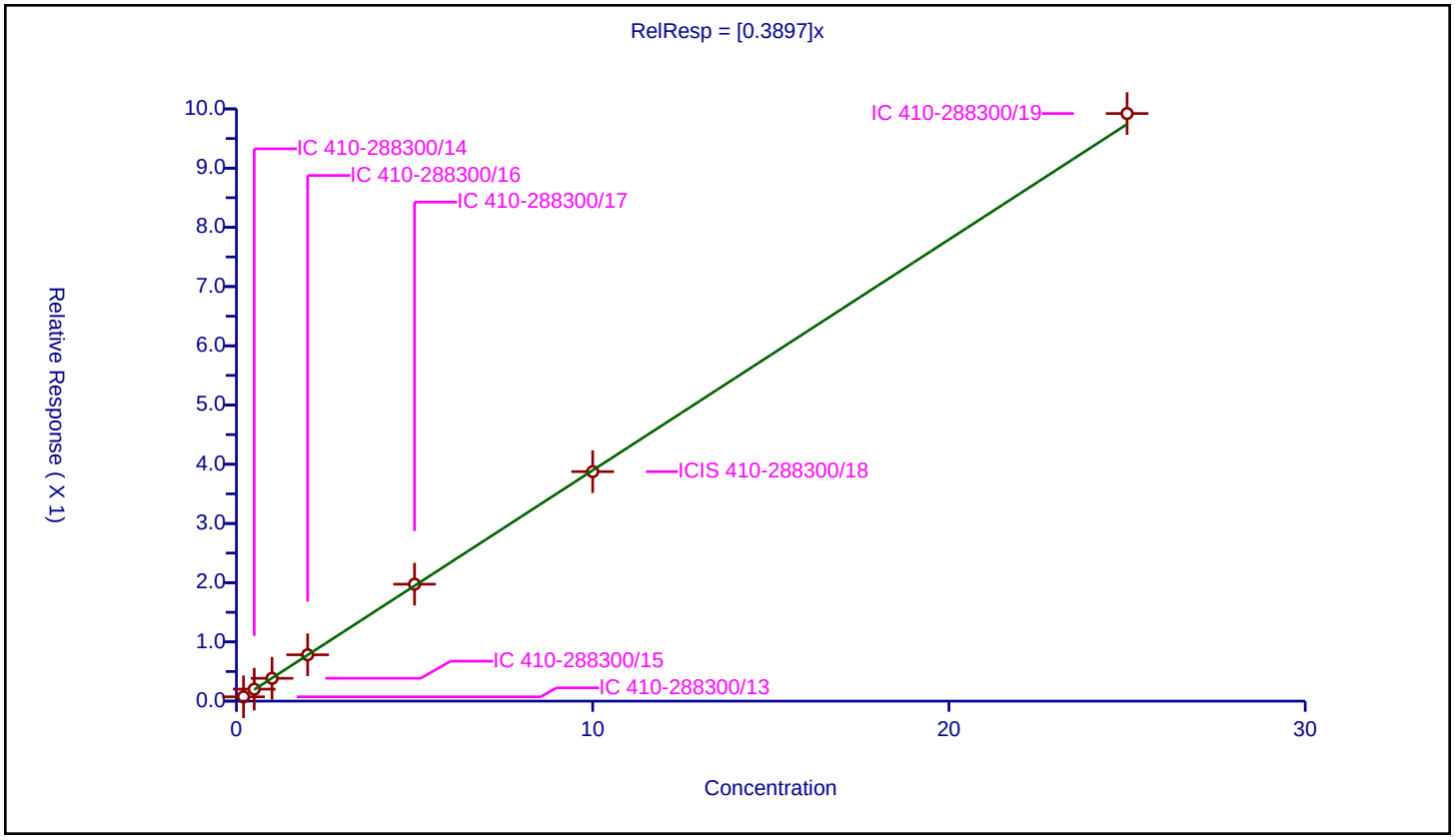
Curve Coefficients

Intercept:	0
Slope:	0.3897

Error Coefficients

Standard Error:	891000
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 410-288300/13	0.2	0.073265	10.0	1993587.0	0.366325	Y
2	IC 410-288300/14	0.5	0.202607	10.0	1985770.0	0.405213	Y
3	IC 410-288300/15	1.0	0.385572	10.0	1978464.0	0.385572	Y
4	IC 410-288300/16	2.0	0.782514	10.0	1976130.0	0.391257	Y
5	IC 410-288300/17	5.0	1.97497	10.0	1966718.0	0.394994	Y
6	ICIS 410-288300/18	10.0	3.875557	10.0	1988424.0	0.387556	Y
7	IC 410-288300/19	25.0	9.921873	10.0	2013656.0	0.396875	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

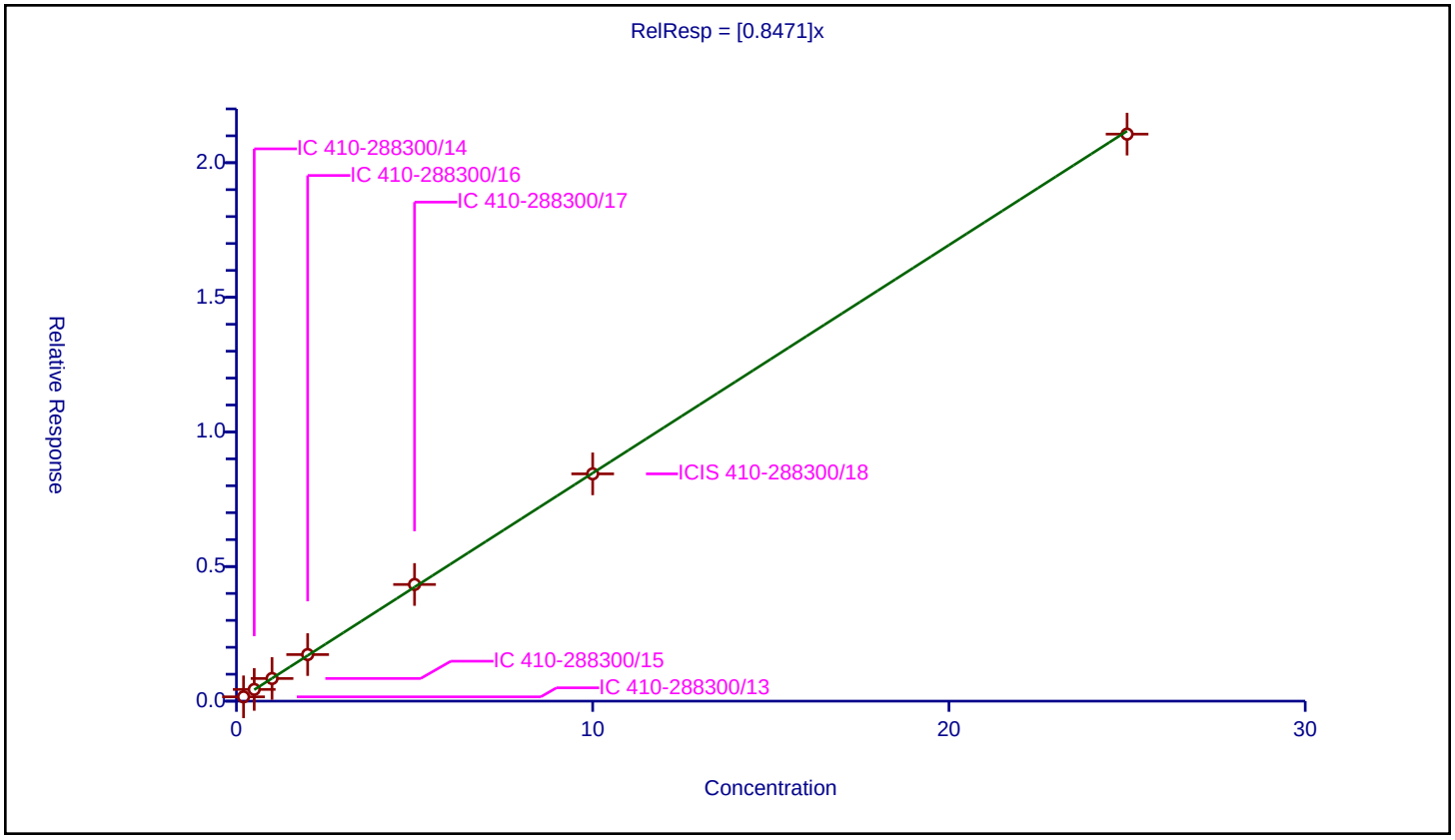
Curve Coefficients

Intercept:	0
Slope:	0.8471

Error Coefficients

Standard Error:	1900000
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 410-288300/13	0.2	0.159637	10.0	1993587.0	0.798184	Y
2	IC 410-288300/14	0.5	0.435987	10.0	1985770.0	0.871974	Y
3	IC 410-288300/15	1.0	0.841178	10.0	1978464.0	0.841178	Y
4	IC 410-288300/16	2.0	1.729608	10.0	1976130.0	0.864804	Y
5	IC 410-288300/17	5.0	4.333417	10.0	1966718.0	0.866683	Y
6	ICIS 410-288300/18	10.0	8.443124	10.0	1988424.0	0.844312	Y
7	IC 410-288300/19	25.0	21.063116	10.0	2013656.0	0.842525	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

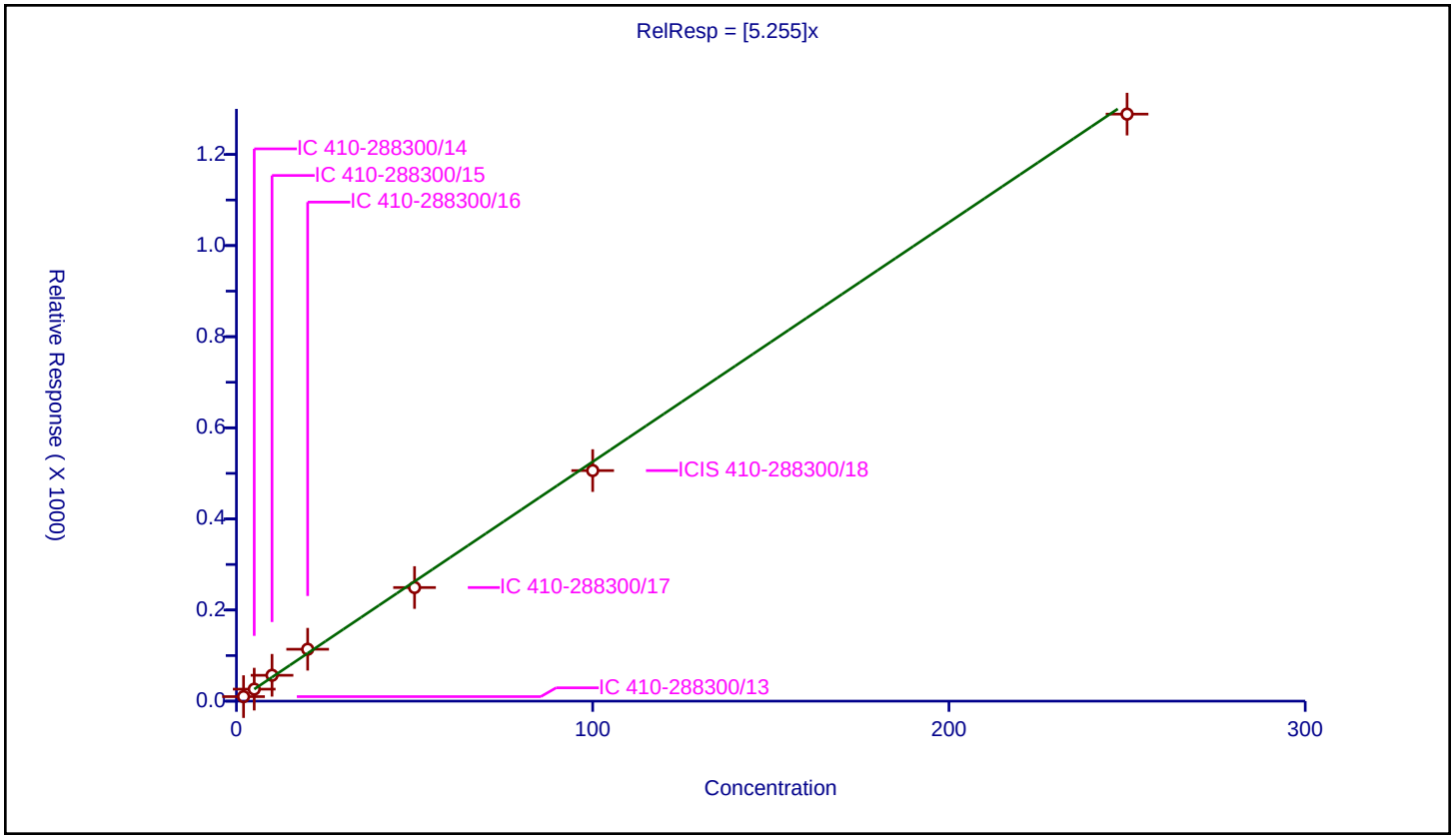
Curve Coefficients

Intercept:	0
Slope:	5.255

Error Coefficients

Standard Error:	1400000
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 410-288300/13	2.0	9.892737	50.0	136580.0	4.946368	Y
2	IC 410-288300/14	5.0	26.32683	50.0	132044.0	5.265366	Y
3	IC 410-288300/15	10.0	56.740372	50.0	113154.0	5.674037	Y
4	IC 410-288300/16	20.0	113.920242	50.0	117656.0	5.696012	Y
5	IC 410-288300/17	50.0	249.342195	50.0	131878.0	4.986844	Y
6	ICIS 410-288300/18	100.0	506.095276	50.0	129707.0	5.060953	Y
7	IC 410-288300/19	250.0	1288.566752	50.0	119756.0	5.154267	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

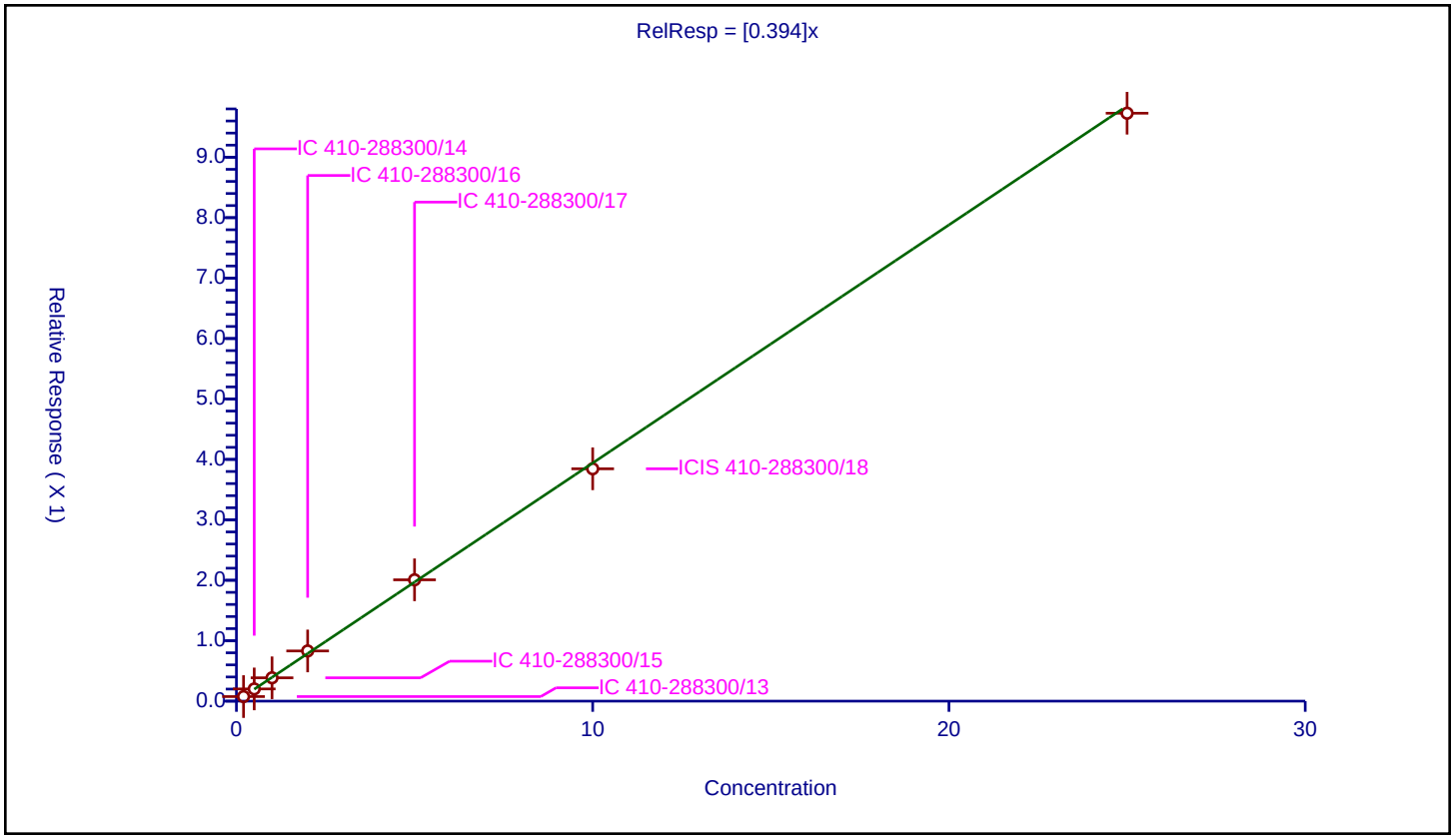
Curve Coefficients

Intercept:	0
Slope:	0.394

Error Coefficients

Standard Error:	877000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.075507	10.0	1993587.0	0.377536	Y
2	IC 410-288300/14	0.5	0.201871	10.0	1985770.0	0.403743	Y
3	IC 410-288300/15	1.0	0.386234	10.0	1978464.0	0.386234	Y
4	IC 410-288300/16	2.0	0.830735	10.0	1976130.0	0.415367	Y
5	IC 410-288300/17	5.0	2.00772	10.0	1966718.0	0.401544	Y
6	ICIS 410-288300/18	10.0	3.844738	10.0	1988424.0	0.384474	Y
7	IC 410-288300/19	25.0	9.728678	10.0	2013656.0	0.389147	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

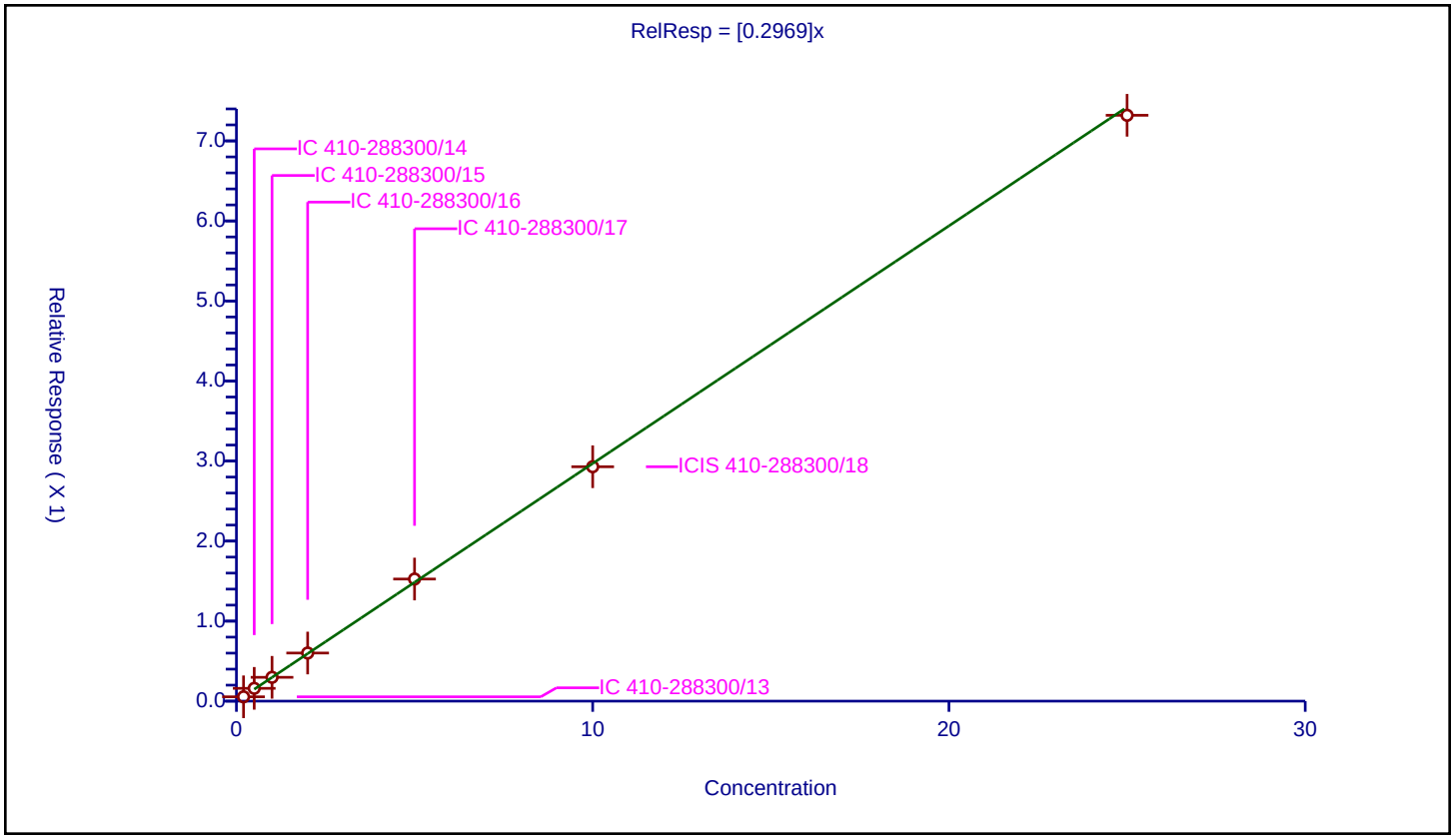
Curve Coefficients

Intercept:	0
Slope:	0.2969

Error Coefficients

Standard Error:	661000
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 410-288300/13	0.2	0.053928	10.0	1993587.0	0.26964	Y
2	IC 410-288300/14	0.5	0.159852	10.0	1985770.0	0.319705	Y
3	IC 410-288300/15	1.0	0.297716	10.0	1978464.0	0.297716	Y
4	IC 410-288300/16	2.0	0.6012	10.0	1976130.0	0.3006	Y
5	IC 410-288300/17	5.0	1.525704	10.0	1966718.0	0.305141	Y
6	ICIS 410-288300/18	10.0	2.928571	10.0	1988424.0	0.292857	Y
7	IC 410-288300/19	25.0	7.319979	10.0	2013656.0	0.292799	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

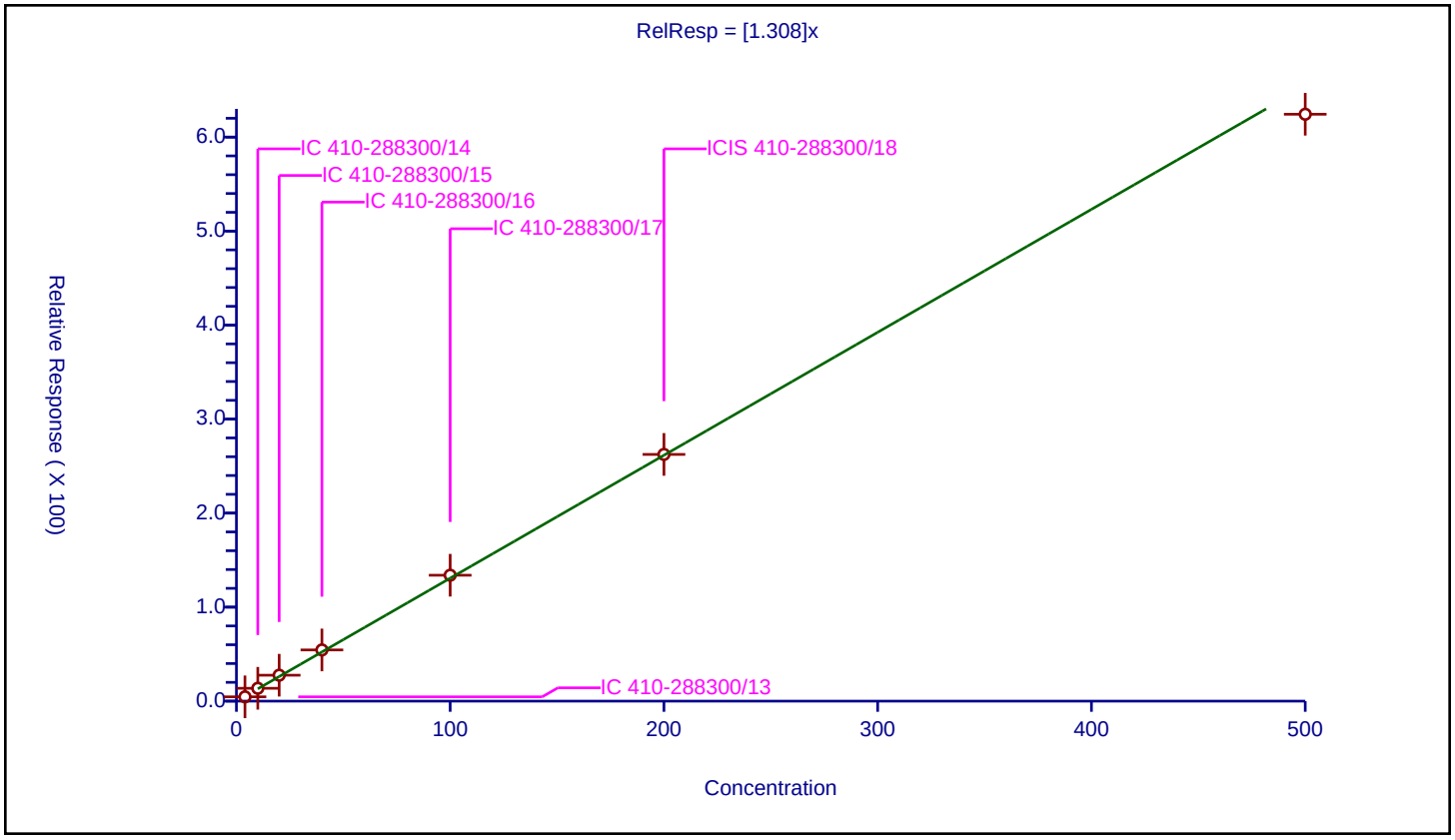
Curve Coefficients

Intercept:	0
Slope:	1.308

Error Coefficients

Standard Error:	688000
Relative Standard Error:	6.5
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	4.0	4.5801	50.0	136580.0	1.145025	Y
2	IC 410-288300/14	10.0	13.681424	50.0	132044.0	1.368142	Y
3	IC 410-288300/15	20.0	27.588508	50.0	113154.0	1.379425	Y
4	IC 410-288300/16	40.0	54.477035	50.0	117656.0	1.361926	Y
5	IC 410-288300/17	100.0	133.938564	50.0	131878.0	1.339386	Y
6	ICIS 410-288300/18	200.0	262.461933	50.0	129707.0	1.31231	Y
7	IC 410-288300/19	500.0	624.311517	50.0	119756.0	1.248623	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

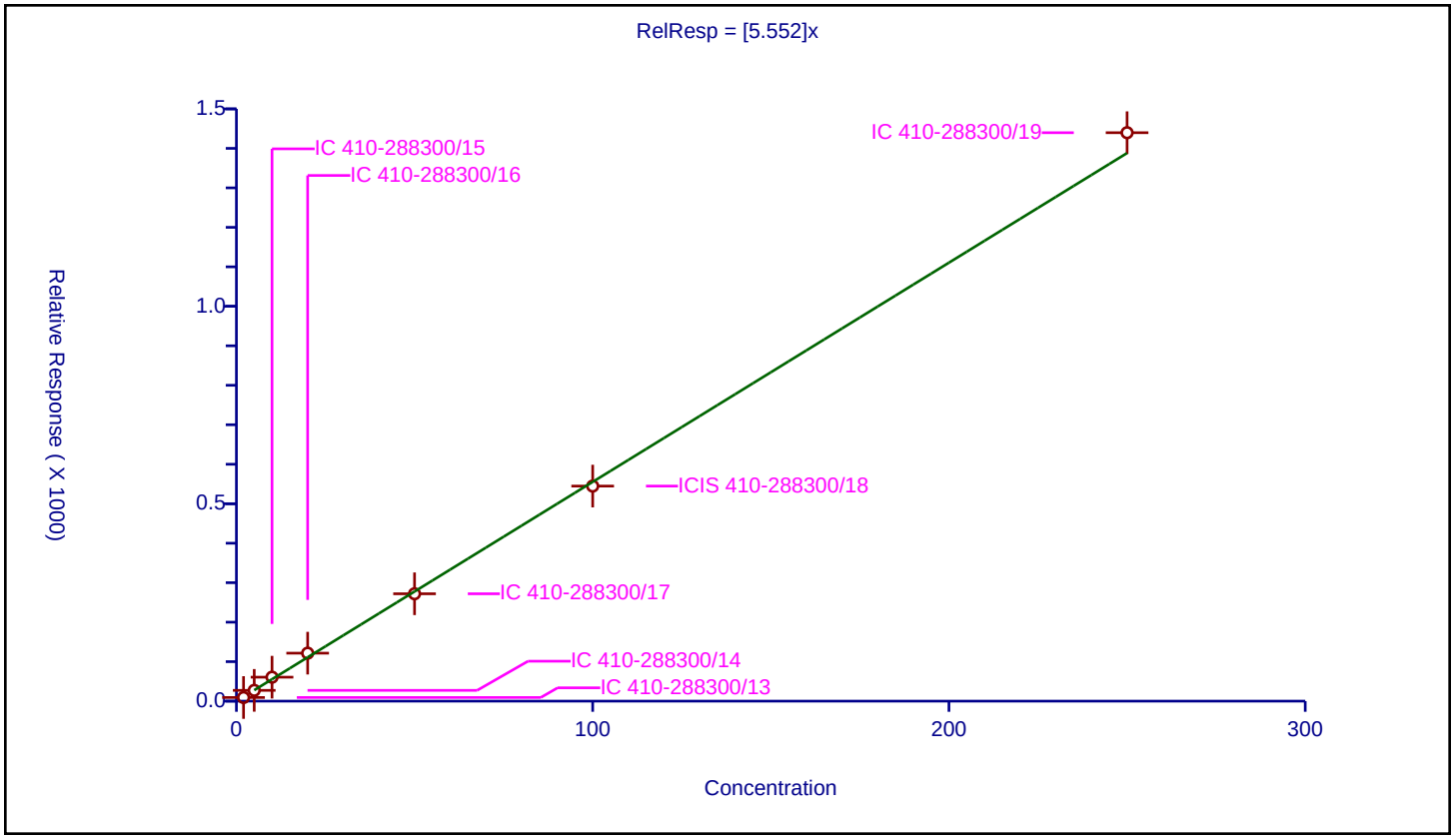
Curve Coefficients

Intercept:	0
Slope:	5.552

Error Coefficients

Standard Error:	1550000
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 410-288300/13	2.0	9.233416	50.0	136580.0	4.616708	Y
2	IC 410-288300/14	5.0	27.315137	50.0	132044.0	5.463027	Y
3	IC 410-288300/15	10.0	60.657158	50.0	113154.0	6.065716	Y
4	IC 410-288300/16	20.0	121.542888	50.0	117656.0	6.077144	Y
5	IC 410-288300/17	50.0	271.956657	50.0	131878.0	5.439133	Y
6	ICIS 410-288300/18	100.0	544.680318	50.0	129707.0	5.446803	Y
7	IC 410-288300/19	250.0	1439.706153	50.0	119756.0	5.758825	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

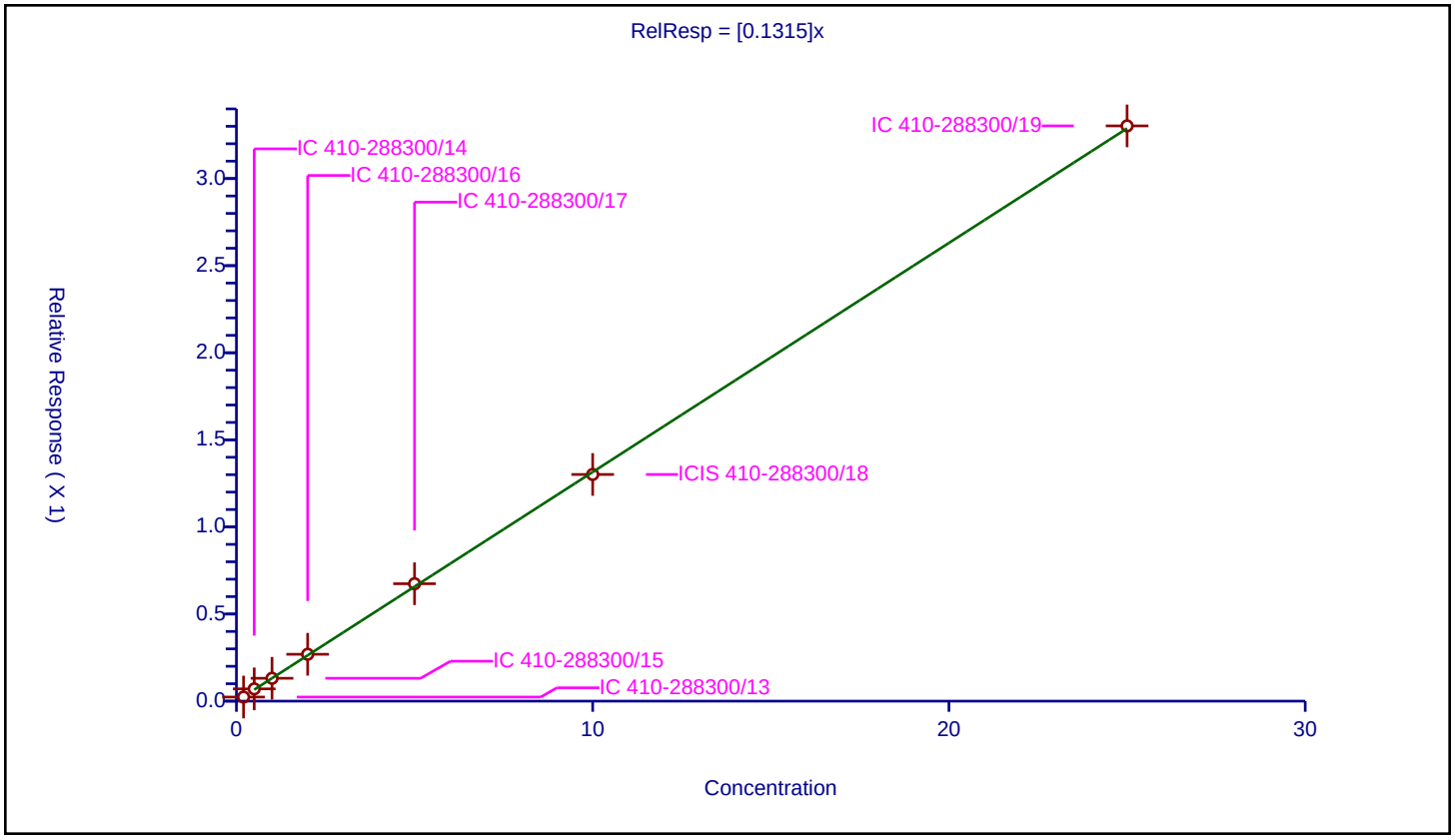
Curve Coefficients

Intercept:	0
Slope:	0.1315

Error Coefficients

Standard Error:	297000
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 410-288300/13	0.2	0.02343	10.0	1993587.0	0.117151	Y
2	IC 410-288300/14	0.5	0.07034	10.0	1985770.0	0.140681	Y
3	IC 410-288300/15	1.0	0.131243	10.0	1978464.0	0.131243	Y
4	IC 410-288300/16	2.0	0.269092	10.0	1976130.0	0.134546	Y
5	IC 410-288300/17	5.0	0.674057	10.0	1966718.0	0.134811	Y
6	ICIS 410-288300/18	10.0	1.301302	10.0	1988424.0	0.13013	Y
7	IC 410-288300/19	25.0	3.302411	10.0	2013656.0	0.132096	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

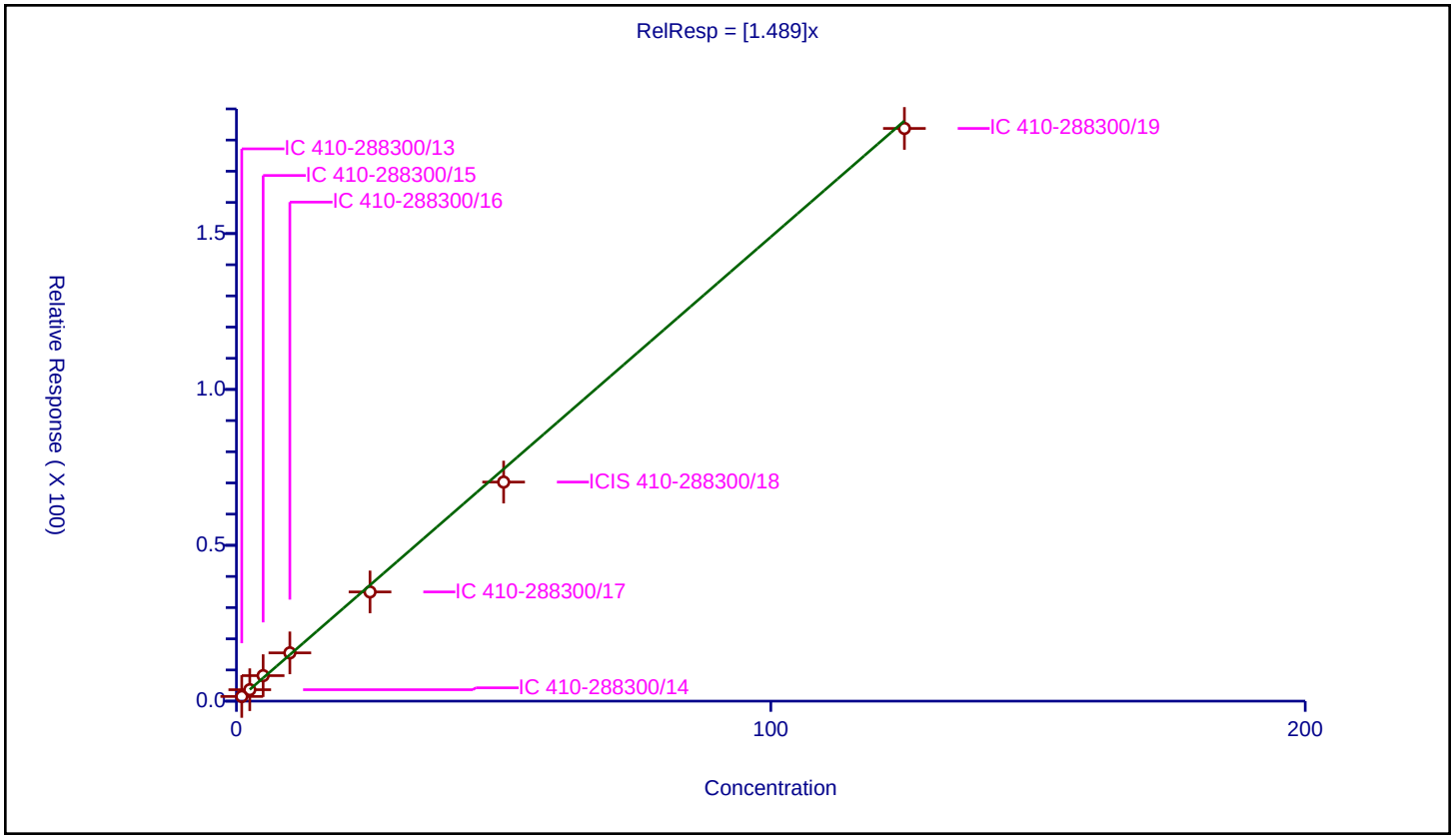
Curve Coefficients

Intercept:	0
Slope:	1.489

Error Coefficients

Standard Error:	199000
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 410-288300/13	1.0	1.497657	50.0	136580.0	1.497657	Y
2	IC 410-288300/14	2.5	3.665824	50.0	132044.0	1.466329	Y
3	IC 410-288300/15	5.0	8.177351	50.0	113154.0	1.63547	Y
4	IC 410-288300/16	10.0	15.485823	50.0	117656.0	1.548582	Y
5	IC 410-288300/17	25.0	35.035032	50.0	131878.0	1.401401	Y
6	ICIS 410-288300/18	50.0	70.281481	50.0	129707.0	1.40563	Y
7	IC 410-288300/19	125.0	183.726494	50.0	119756.0	1.469812	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

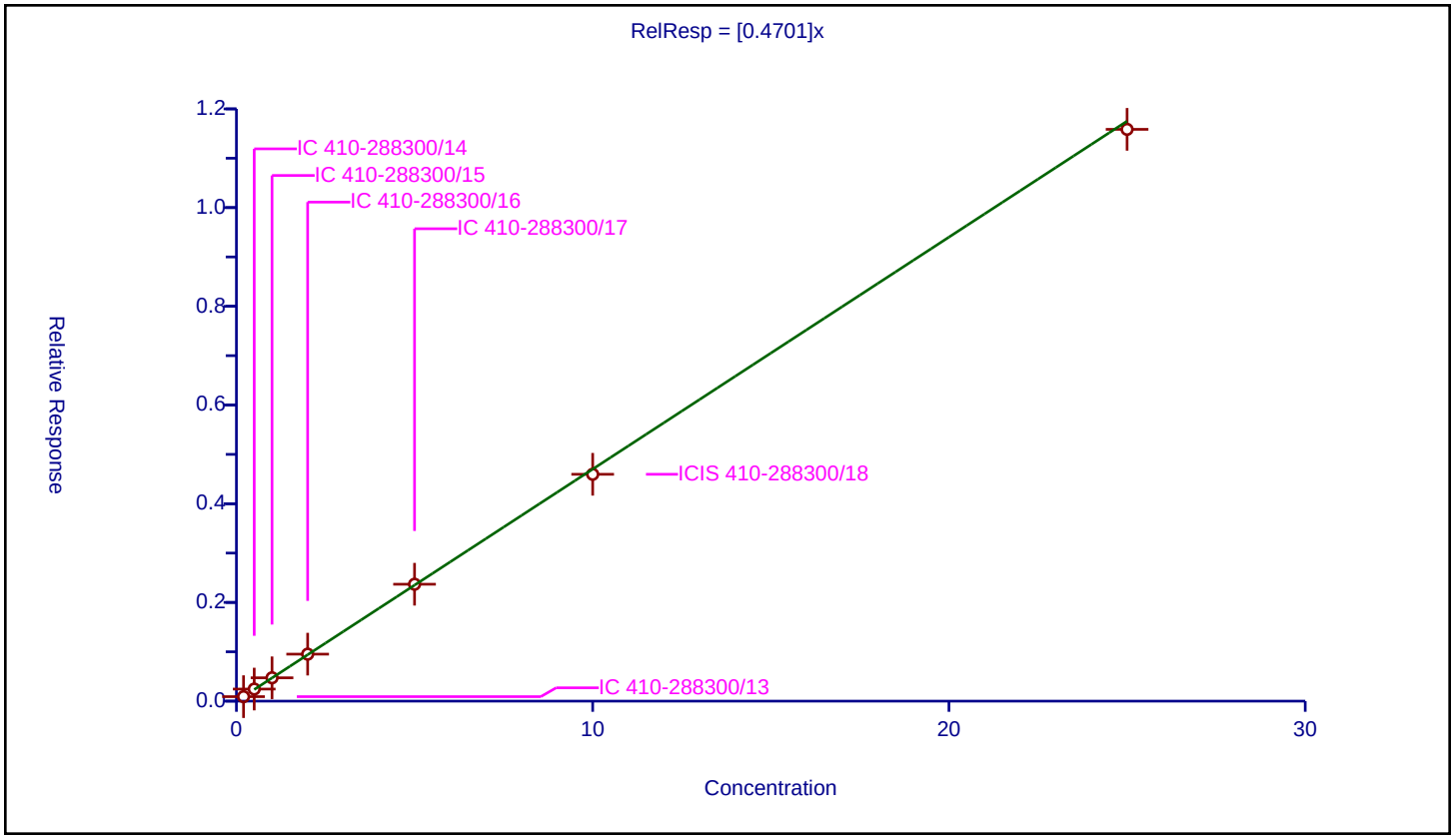
Curve Coefficients

Intercept:	0
Slope:	0.4701

Error Coefficients

Standard Error:	1040000
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 410-288300/13	0.2	0.091042	10.0	1993587.0	0.45521	Y
2	IC 410-288300/14	0.5	0.244641	10.0	1985770.0	0.489281	Y
3	IC 410-288300/15	1.0	0.47312	10.0	1978464.0	0.47312	Y
4	IC 410-288300/16	2.0	0.952103	10.0	1976130.0	0.476052	Y
5	IC 410-288300/17	5.0	2.368997	10.0	1966718.0	0.473799	Y
6	ICIS 410-288300/18	10.0	4.596721	10.0	1988424.0	0.459672	Y
7	IC 410-288300/19	25.0	11.585494	10.0	2013656.0	0.46342	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

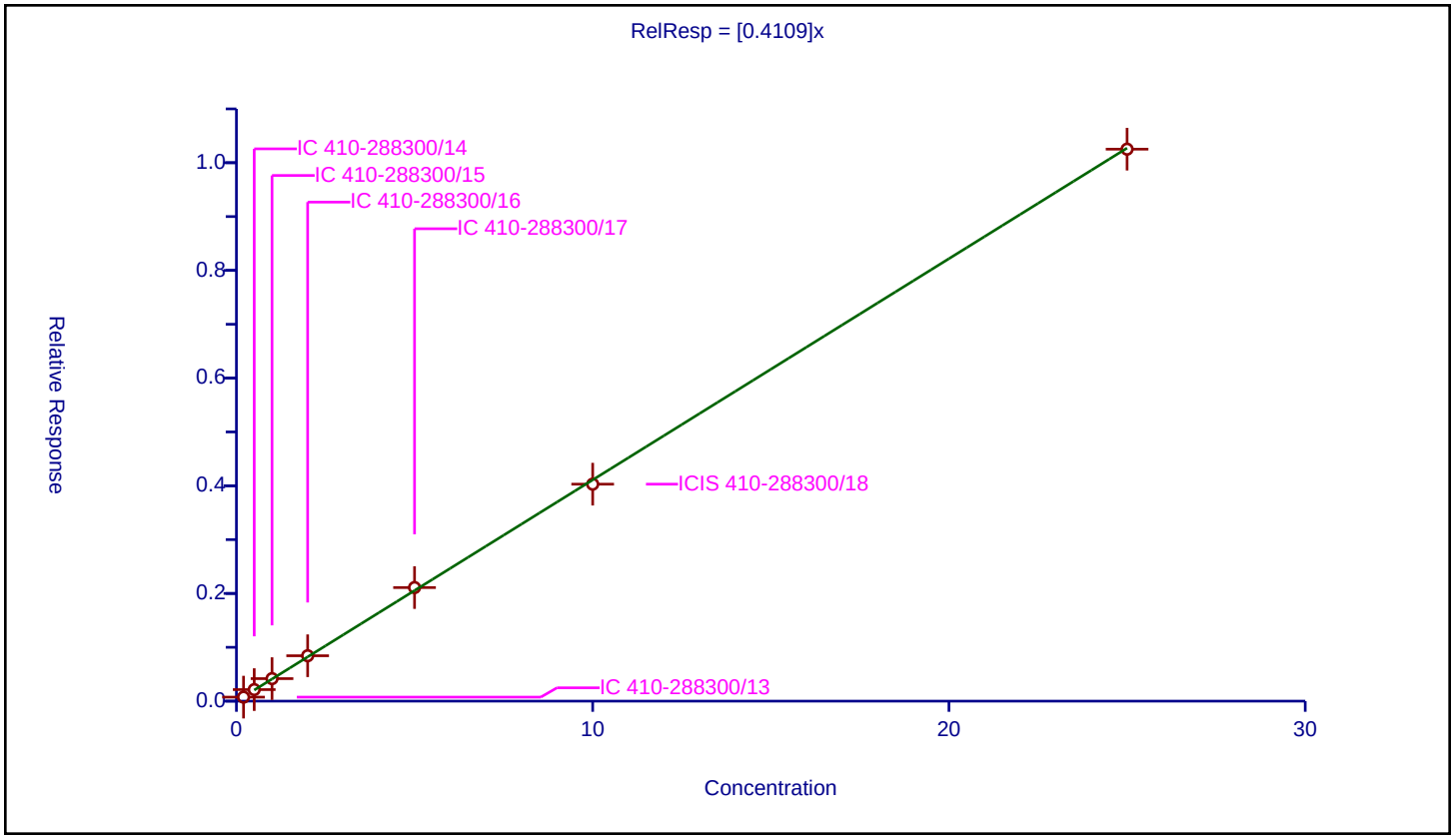
Curve Coefficients

Intercept:	0
Slope:	0.4109

Error Coefficients

Standard Error:	923000
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 410-288300/13	0.2	0.074549	10.0	1993587.0	0.372745	Y
2	IC 410-288300/14	0.5	0.21432	10.0	1985770.0	0.42864	Y
3	IC 410-288300/15	1.0	0.418239	10.0	1978464.0	0.418239	Y
4	IC 410-288300/16	2.0	0.843173	10.0	1976130.0	0.421587	Y
5	IC 410-288300/17	5.0	2.109697	10.0	1966718.0	0.421939	Y
6	ICIS 410-288300/18	10.0	4.030116	10.0	1988424.0	0.403012	Y
7	IC 410-288300/19	25.0	10.251955	10.0	2013656.0	0.410078	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

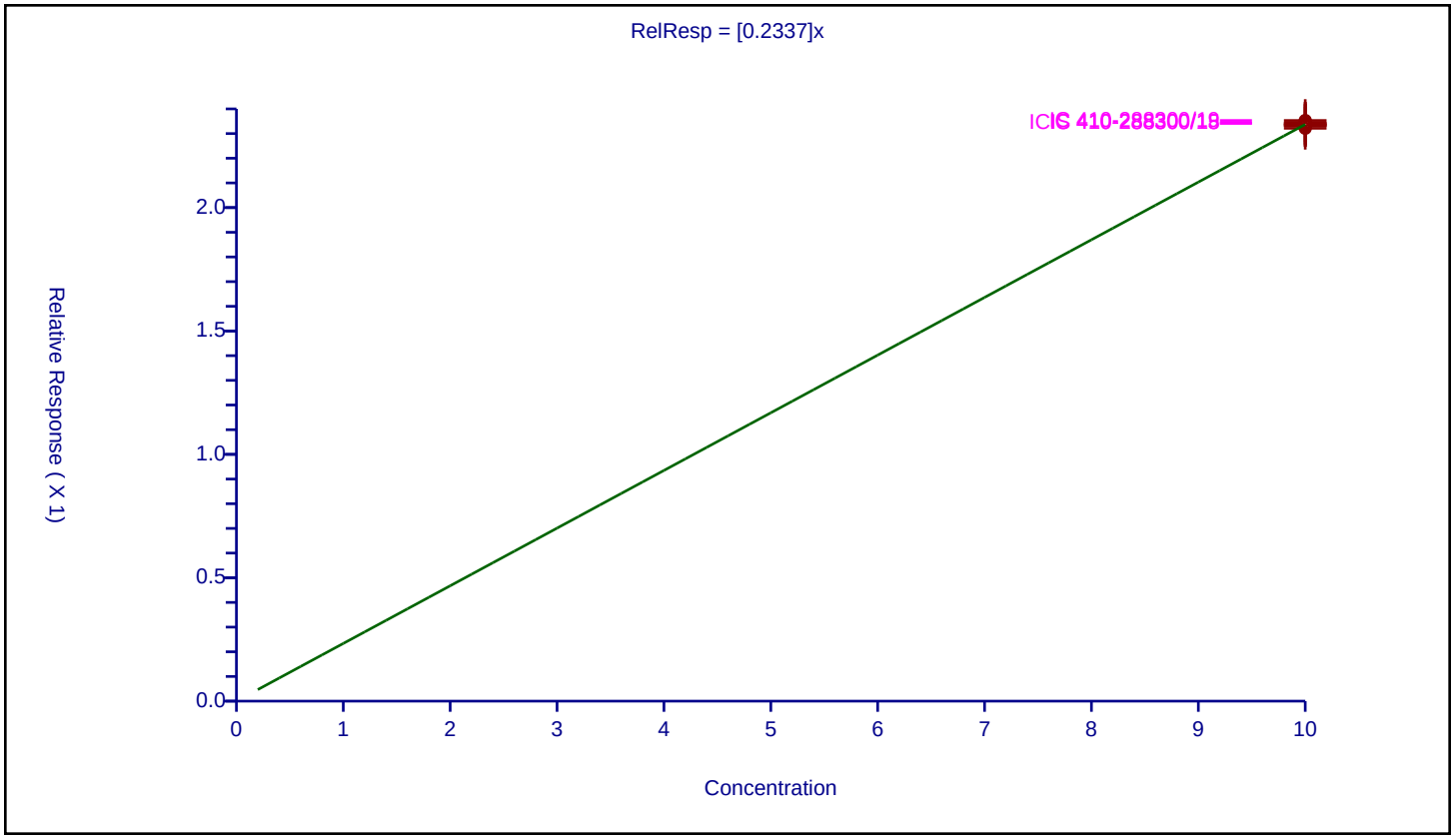
Curve Coefficients

Intercept:	0
Slope:	0.2337

Error Coefficients

Standard Error:	501000
Relative Standard Error:	0.4
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	10.0	2.332424	10.0	1993587.0	0.233242	Y
2	IC 410-288300/14	10.0	2.336162	10.0	1985770.0	0.233616	Y
3	IC 410-288300/15	10.0	2.341478	10.0	1978464.0	0.234148	Y
4	IC 410-288300/16	10.0	2.321391	10.0	1976130.0	0.232139	Y
5	IC 410-288300/17	10.0	2.332465	10.0	1966718.0	0.233246	Y
6	ICIS 410-288300/18	10.0	2.342257	10.0	1988424.0	0.234226	Y
7	IC 410-288300/19	10.0	2.352924	10.0	2013656.0	0.235292	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

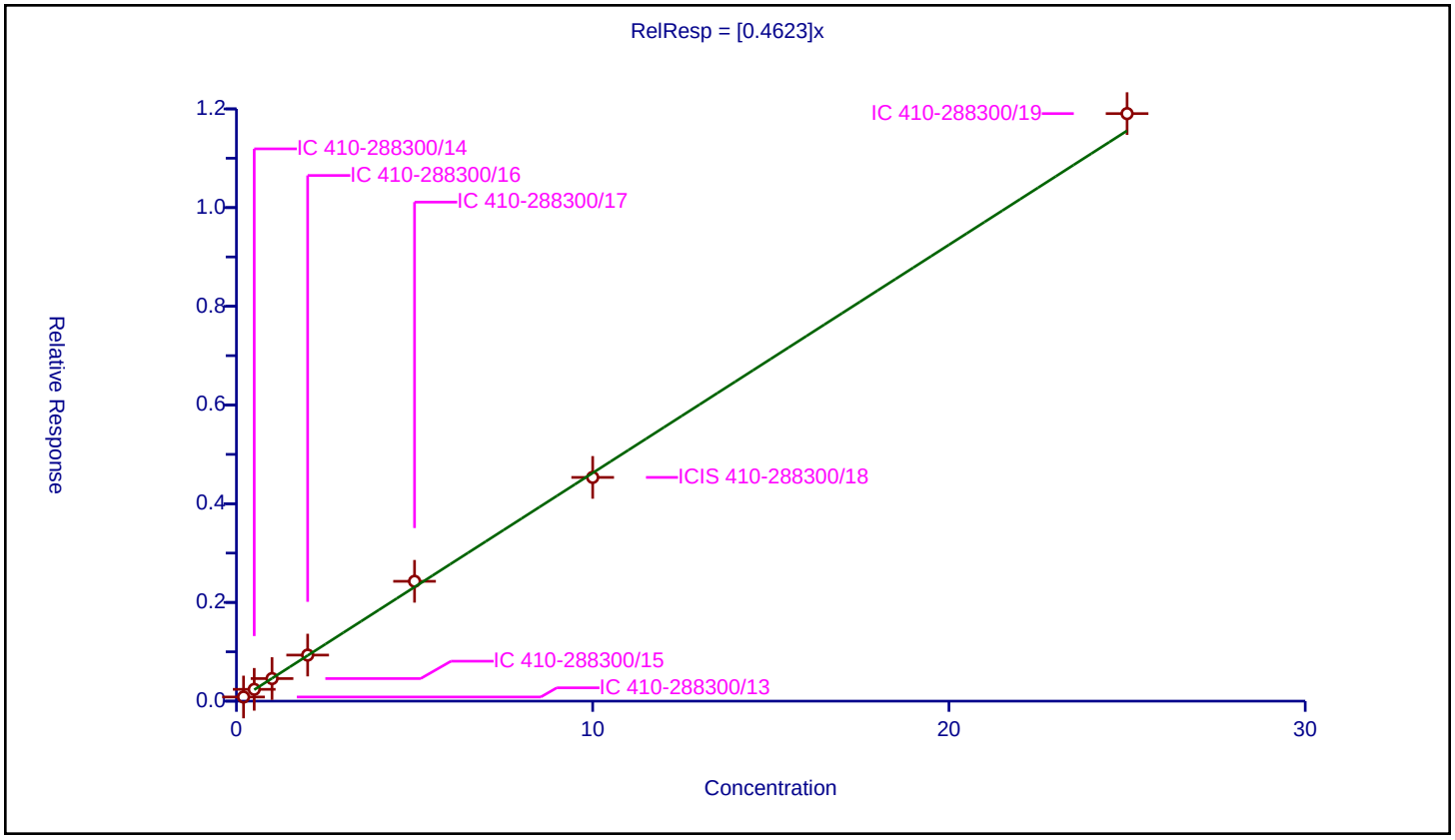
Curve Coefficients

Intercept:	0
Slope:	0.4623

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	4.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.083733	10.0	1993587.0	0.418667	Y
2	IC 410-288300/14	0.5	0.239187	10.0	1985770.0	0.478374	Y
3	IC 410-288300/15	1.0	0.457426	10.0	1978464.0	0.457426	Y
4	IC 410-288300/16	2.0	0.933071	10.0	1976130.0	0.466536	Y
5	IC 410-288300/17	5.0	2.428411	10.0	1966718.0	0.485682	Y
6	ICIS 410-288300/18	10.0	4.533098	10.0	1988424.0	0.45331	Y
7	IC 410-288300/19	25.0	11.90462	10.0	2013656.0	0.476185	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

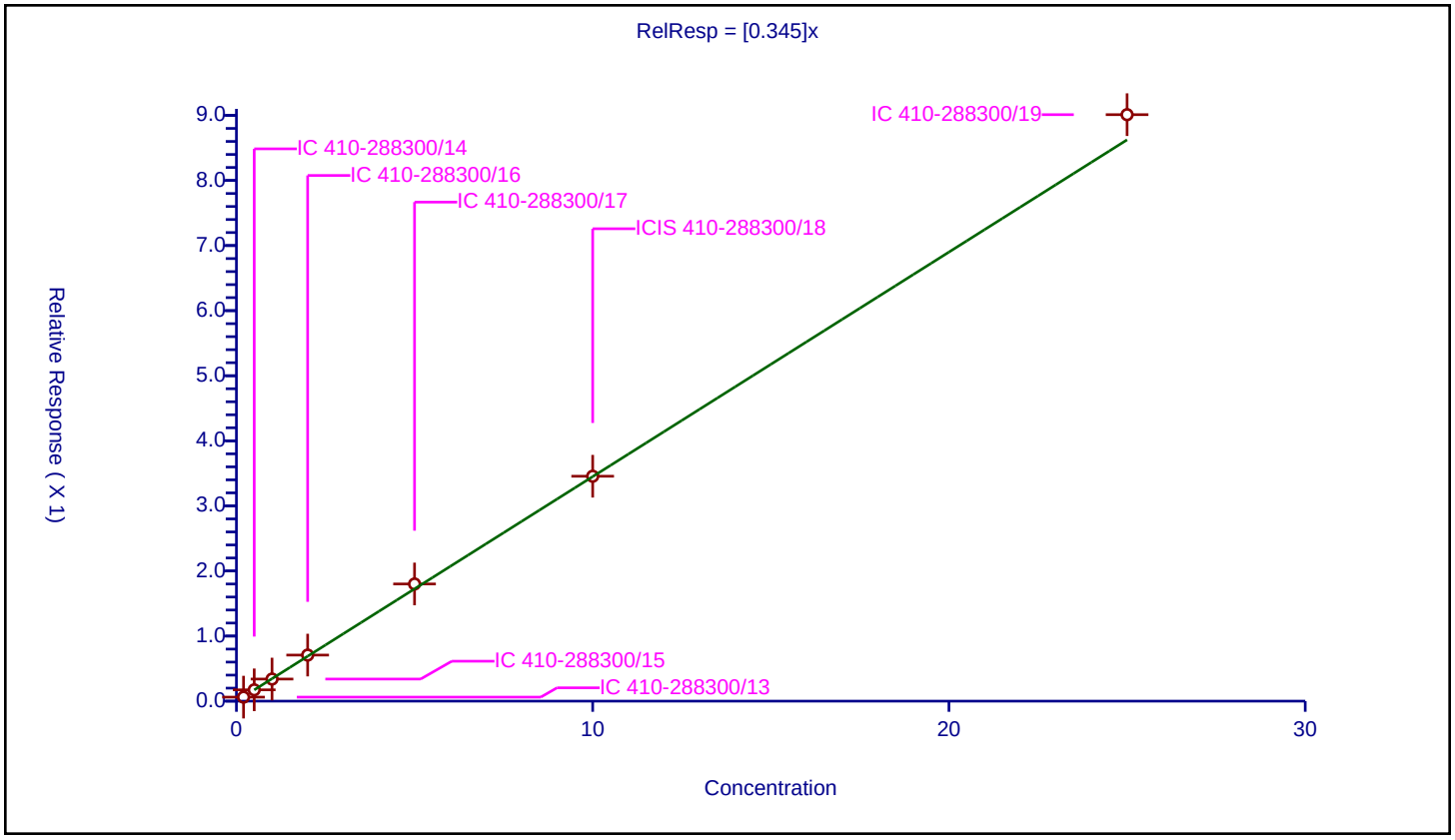
Curve Coefficients

Intercept:	0
Slope:	0.345

Error Coefficients

Standard Error:	808000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.061598	10.0	1993587.0	0.307988	Y
2	IC 410-288300/14	0.5	0.173842	10.0	1985770.0	0.347684	Y
3	IC 410-288300/15	1.0	0.339359	10.0	1978464.0	0.339359	Y
4	IC 410-288300/16	2.0	0.707686	10.0	1976130.0	0.353843	Y
5	IC 410-288300/17	5.0	1.800385	10.0	1966718.0	0.360077	Y
6	ICIS 410-288300/18	10.0	3.455681	10.0	1988424.0	0.345568	Y
7	IC 410-288300/19	25.0	9.011132	10.0	2013656.0	0.360445	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

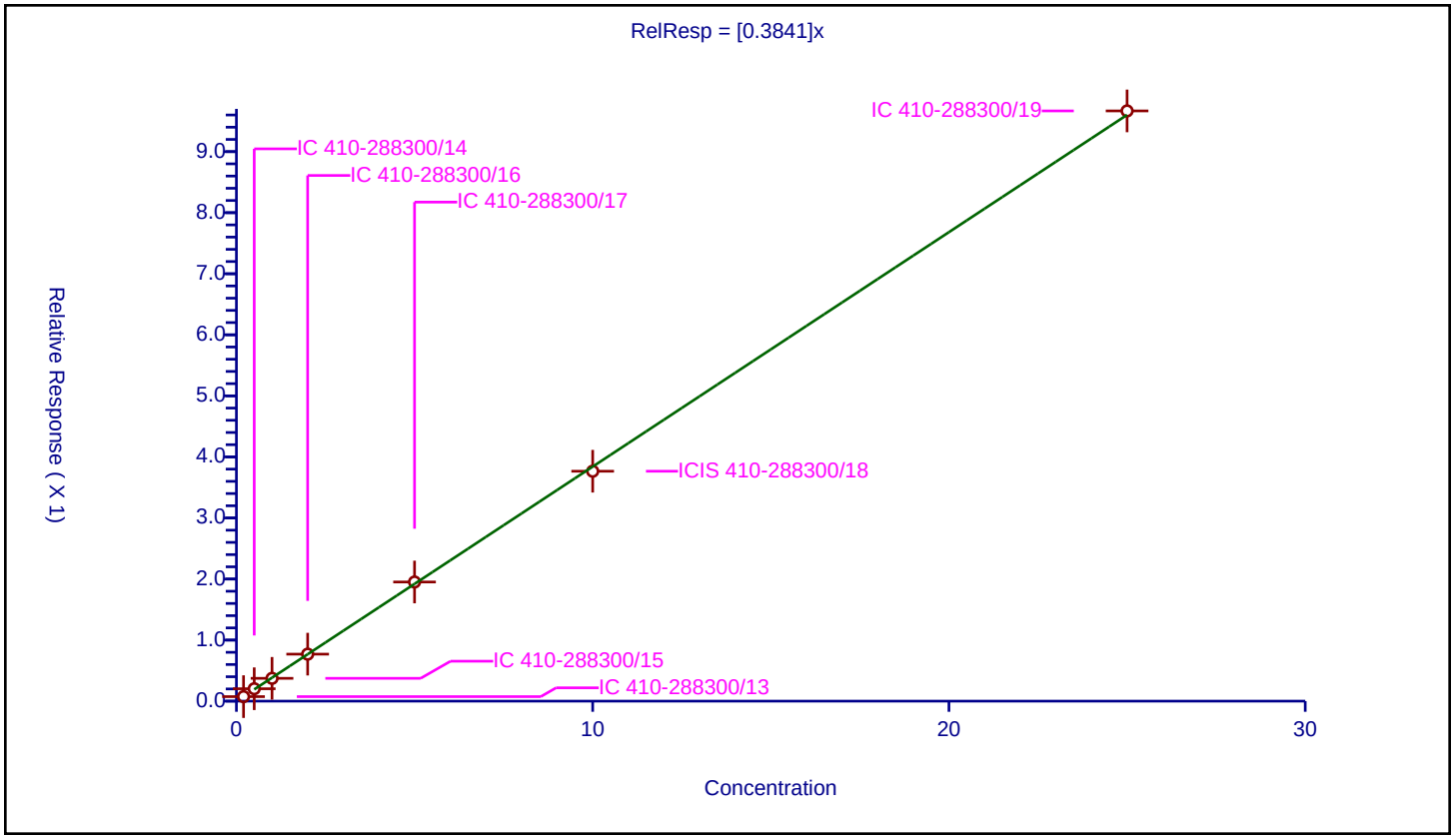
Curve Coefficients

Intercept:	0
Slope:	0.3841

Error Coefficients

Standard Error:	869000
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 410-288300/13	0.2	0.074123	10.0	1993587.0	0.370613	Y
2	IC 410-288300/14	0.5	0.203004	10.0	1985770.0	0.406009	Y
3	IC 410-288300/15	1.0	0.373537	10.0	1978464.0	0.373537	Y
4	IC 410-288300/16	2.0	0.769529	10.0	1976130.0	0.384765	Y
5	IC 410-288300/17	5.0	1.951556	10.0	1966718.0	0.390311	Y
6	ICIS 410-288300/18	10.0	3.765635	10.0	1988424.0	0.376564	Y
7	IC 410-288300/19	25.0	9.66686	10.0	2013656.0	0.386674	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

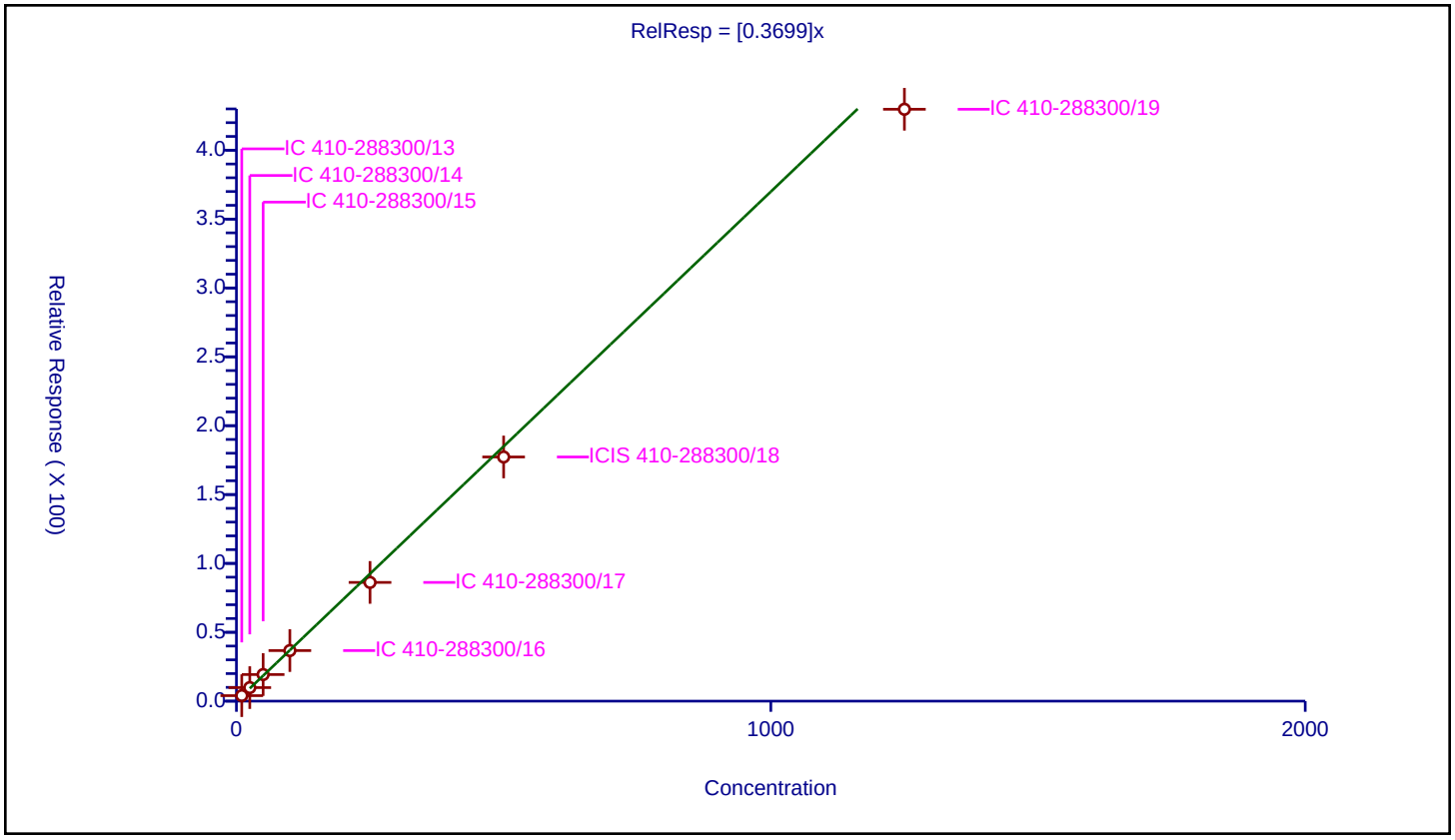
Curve Coefficients

Intercept:	0
Slope:	0.3699

Error Coefficients

Standard Error:	471000
Relative Standard Error:	6.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	10.0	3.995827	50.0	136580.0	0.399583	Y
2	IC 410-288300/14	25.0	9.828163	50.0	132044.0	0.393127	Y
3	IC 410-288300/15	50.0	19.317479	50.0	113154.0	0.38635	Y
4	IC 410-288300/16	100.0	36.713385	50.0	117656.0	0.367134	Y
5	IC 410-288300/17	250.0	86.198229	50.0	131878.0	0.344793	Y
6	ICIS 410-288300/18	500.0	177.268767	50.0	129707.0	0.354538	Y
7	IC 410-288300/19	1250.0	429.726277	50.0	119756.0	0.343781	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

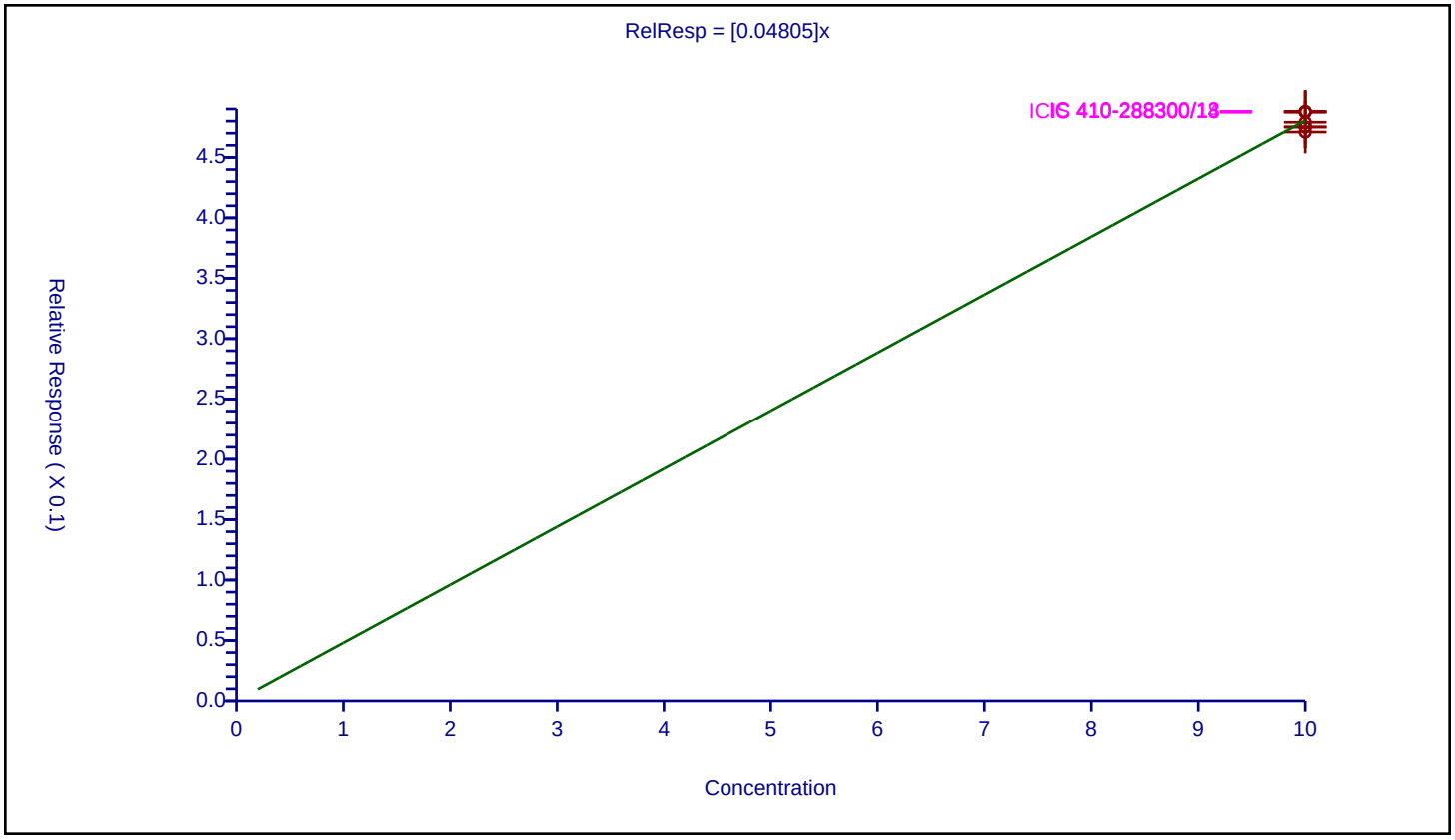
Curve Coefficients

Intercept:	0
Slope:	0.04805

Error Coefficients

Standard Error:	103000
Relative Standard Error:	1.5
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0.00000000000000000111

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	10.0	0.48801	10.0	1993587.0	0.048801	Y
2	IC 410-288300/14	10.0	0.487418	10.0	1985770.0	0.048742	Y
3	IC 410-288300/15	10.0	0.475222	10.0	1978464.0	0.047522	Y
4	IC 410-288300/16	10.0	0.475151	10.0	1976130.0	0.047515	Y
5	IC 410-288300/17	10.0	0.470978	10.0	1966718.0	0.047098	Y
6	ICIS 410-288300/18	10.0	0.487567	10.0	1988424.0	0.048757	Y
7	IC 410-288300/19	10.0	0.479059	10.0	2013656.0	0.047906	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

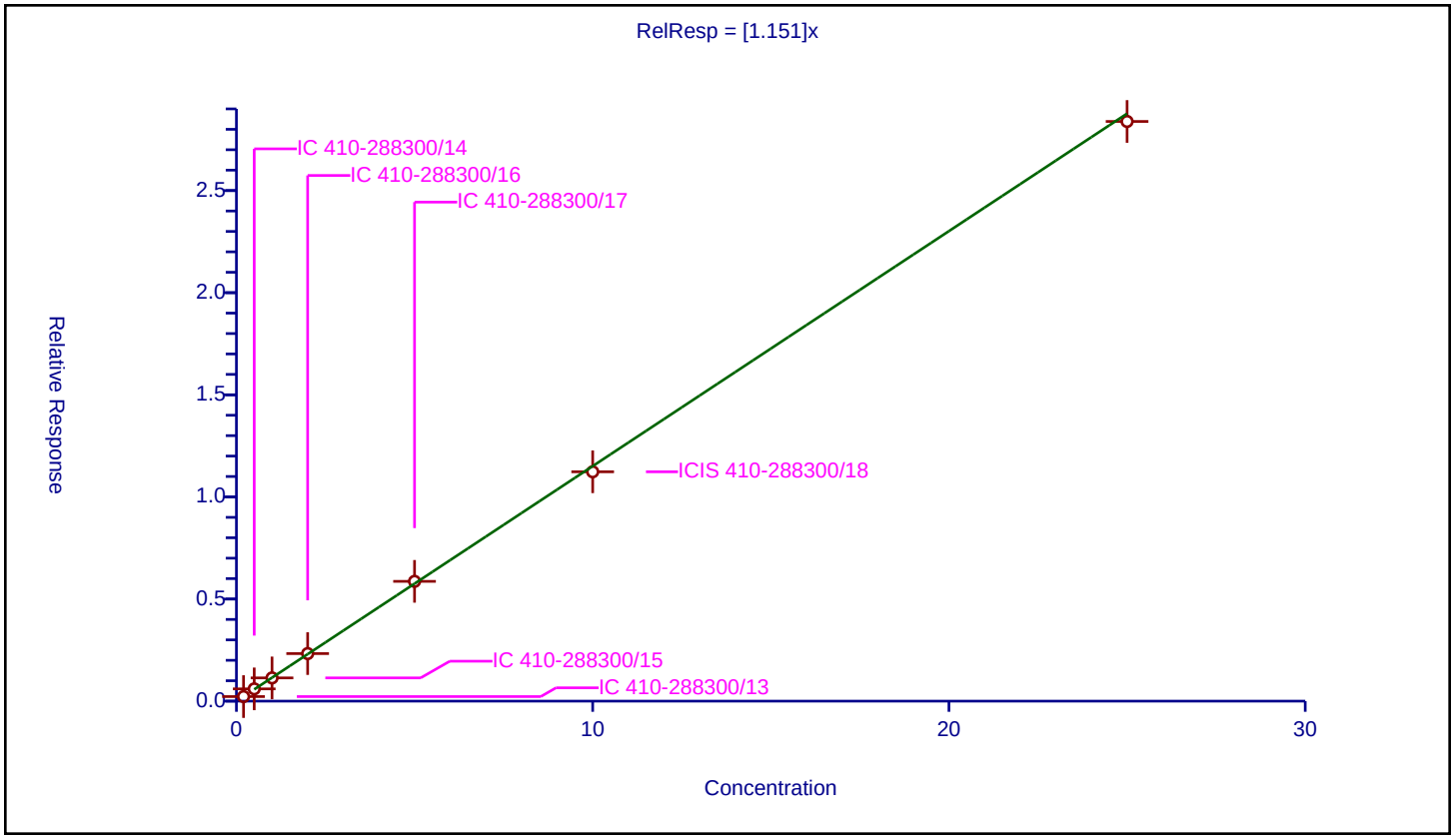
Curve Coefficients

Intercept:	0
Slope:	1.151

Error Coefficients

Standard Error:	2560000
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 410-288300/13	0.2	0.224063	10.0	1993587.0	1.120317	Y
2	IC 410-288300/14	0.5	0.600739	10.0	1985770.0	1.201479	Y
3	IC 410-288300/15	1.0	1.137514	10.0	1978464.0	1.137514	Y
4	IC 410-288300/16	2.0	2.329138	10.0	1976130.0	1.164569	Y
5	IC 410-288300/17	5.0	5.865869	10.0	1966718.0	1.173174	Y
6	ICIS 410-288300/18	10.0	11.230708	10.0	1988424.0	1.123071	Y
7	IC 410-288300/19	25.0	28.384873	10.0	2013656.0	1.135395	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

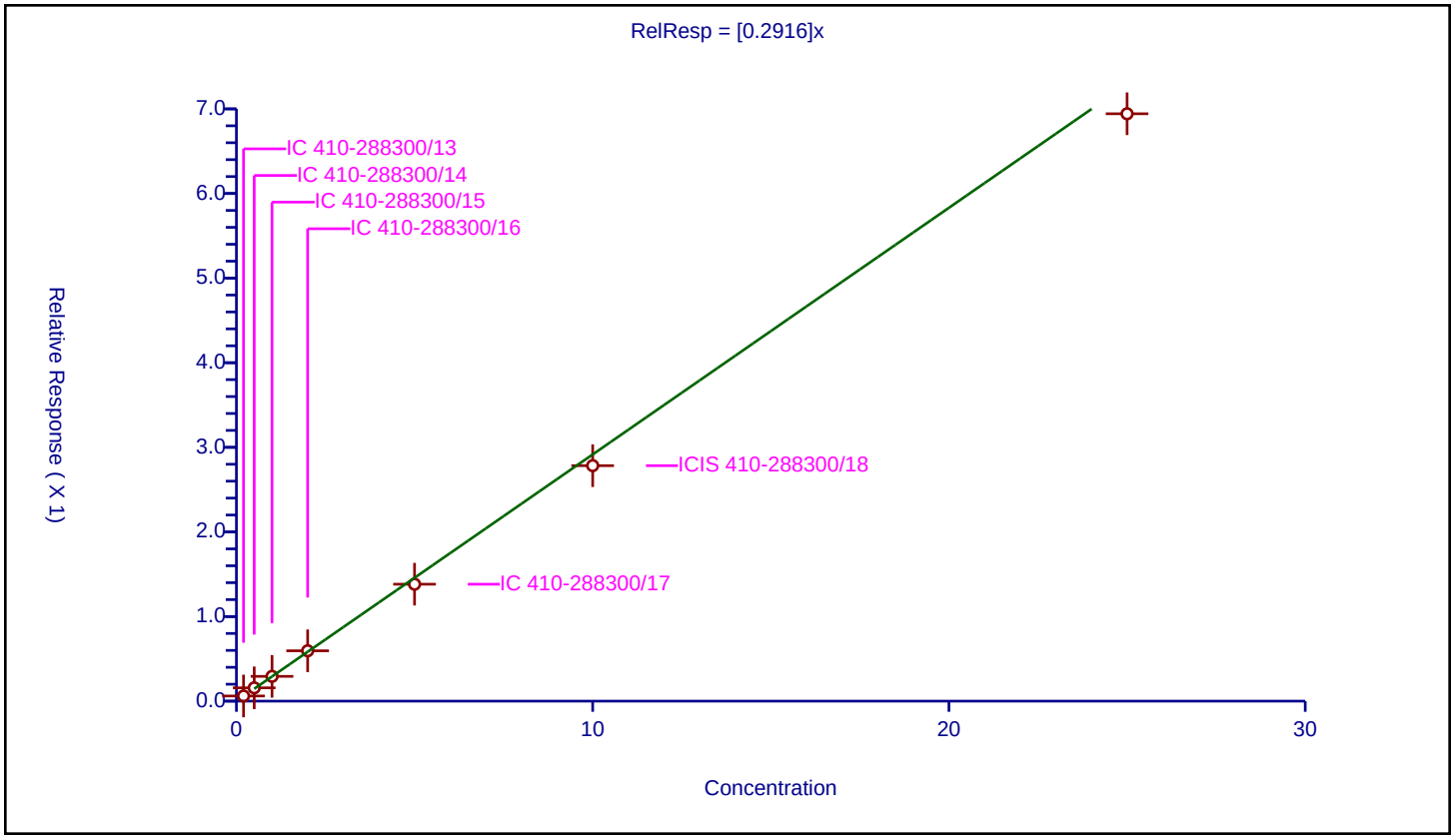
Curve Coefficients

Intercept:	0
Slope:	0.2916

Error Coefficients

Standard Error:	626000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.06076	10.0	1993587.0	0.303799	Y
2	IC 410-288300/14	0.5	0.157168	10.0	1985770.0	0.314337	Y
3	IC 410-288300/15	1.0	0.292798	10.0	1978464.0	0.292798	Y
4	IC 410-288300/16	2.0	0.595148	10.0	1976130.0	0.297574	Y
5	IC 410-288300/17	5.0	1.382023	10.0	1966718.0	0.276405	Y
6	ICIS 410-288300/18	10.0	2.783425	10.0	1988424.0	0.278343	Y
7	IC 410-288300/19	25.0	6.942407	10.0	2013656.0	0.277696	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

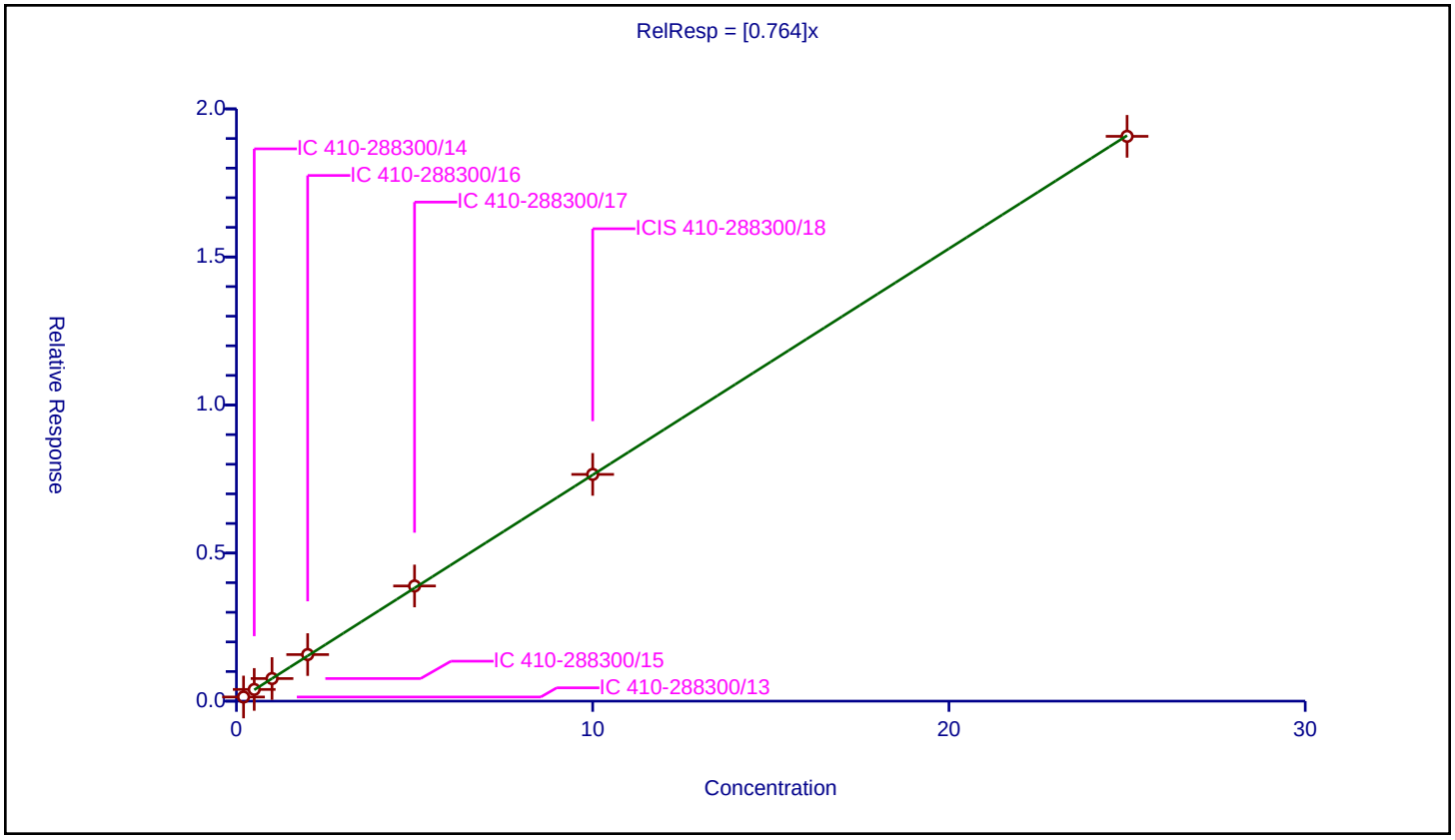
Curve Coefficients

Intercept:	0
Slope:	0.764

Error Coefficients

Standard Error:	1720000
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 410-288300/13	0.2	0.140205	10.0	1993587.0	0.701023	Y
2	IC 410-288300/14	0.5	0.39562	10.0	1985770.0	0.79124	Y
3	IC 410-288300/15	1.0	0.762915	10.0	1978464.0	0.762915	Y
4	IC 410-288300/16	2.0	1.57265	10.0	1976130.0	0.786325	Y
5	IC 410-288300/17	5.0	3.889663	10.0	1966718.0	0.777933	Y
6	ICIS 410-288300/18	10.0	7.657316	10.0	1988424.0	0.765732	Y
7	IC 410-288300/19	25.0	19.073521	10.0	2013656.0	0.762941	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

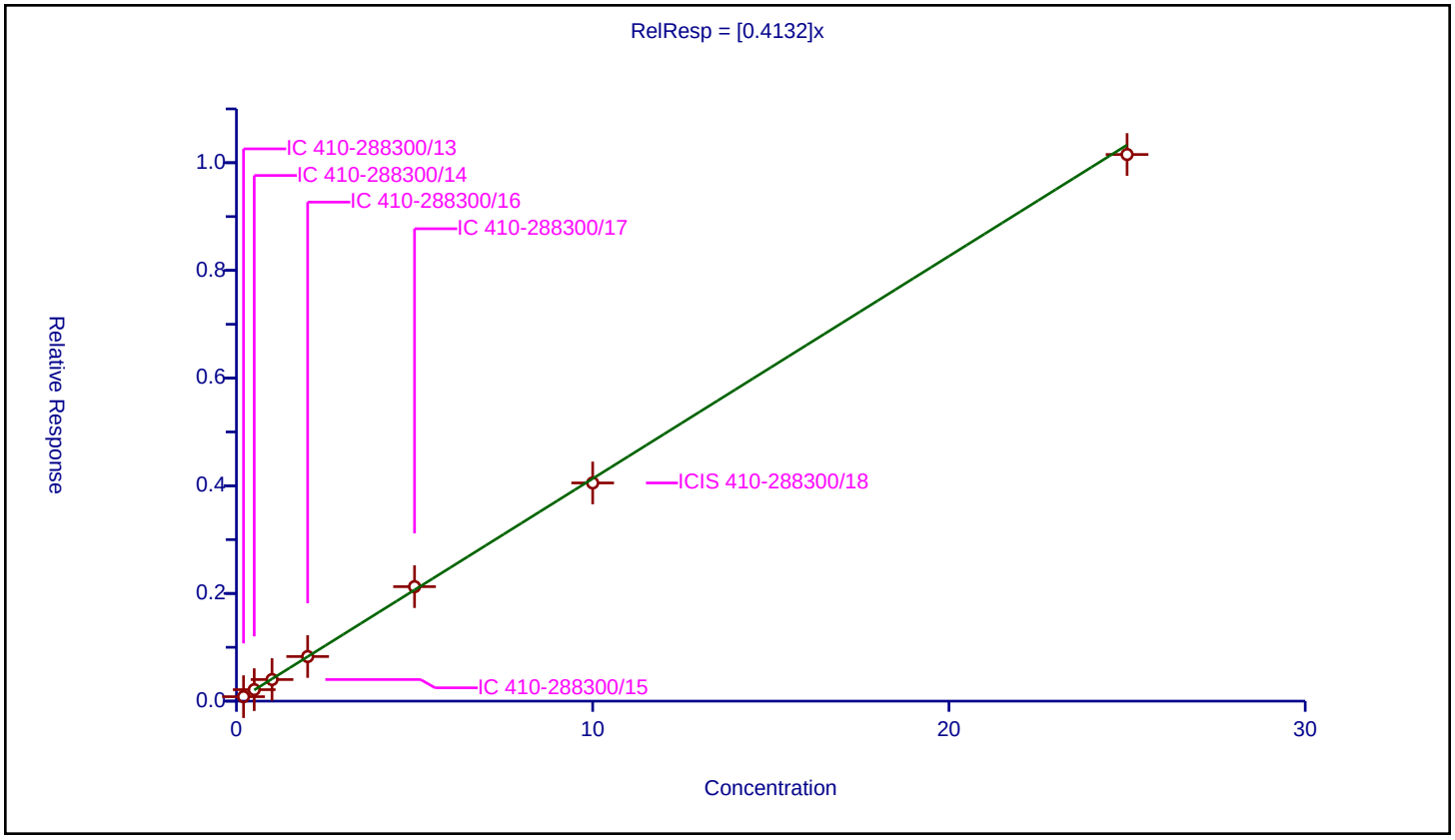
Curve Coefficients

Intercept:	0
Slope:	0.4132

Error Coefficients

Standard Error:	916000
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 410-288300/13	0.2	0.082851	10.0	1993587.0	0.414253	Y
2	IC 410-288300/14	0.5	0.213227	10.0	1985770.0	0.426454	Y
3	IC 410-288300/15	1.0	0.401074	10.0	1978464.0	0.401074	Y
4	IC 410-288300/16	2.0	0.828149	10.0	1976130.0	0.414074	Y
5	IC 410-288300/17	5.0	2.126334	10.0	1966718.0	0.425267	Y
6	ICIS 410-288300/18	10.0	4.052757	10.0	1988424.0	0.405276	Y
7	IC 410-288300/19	25.0	10.152956	10.0	2013656.0	0.406118	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

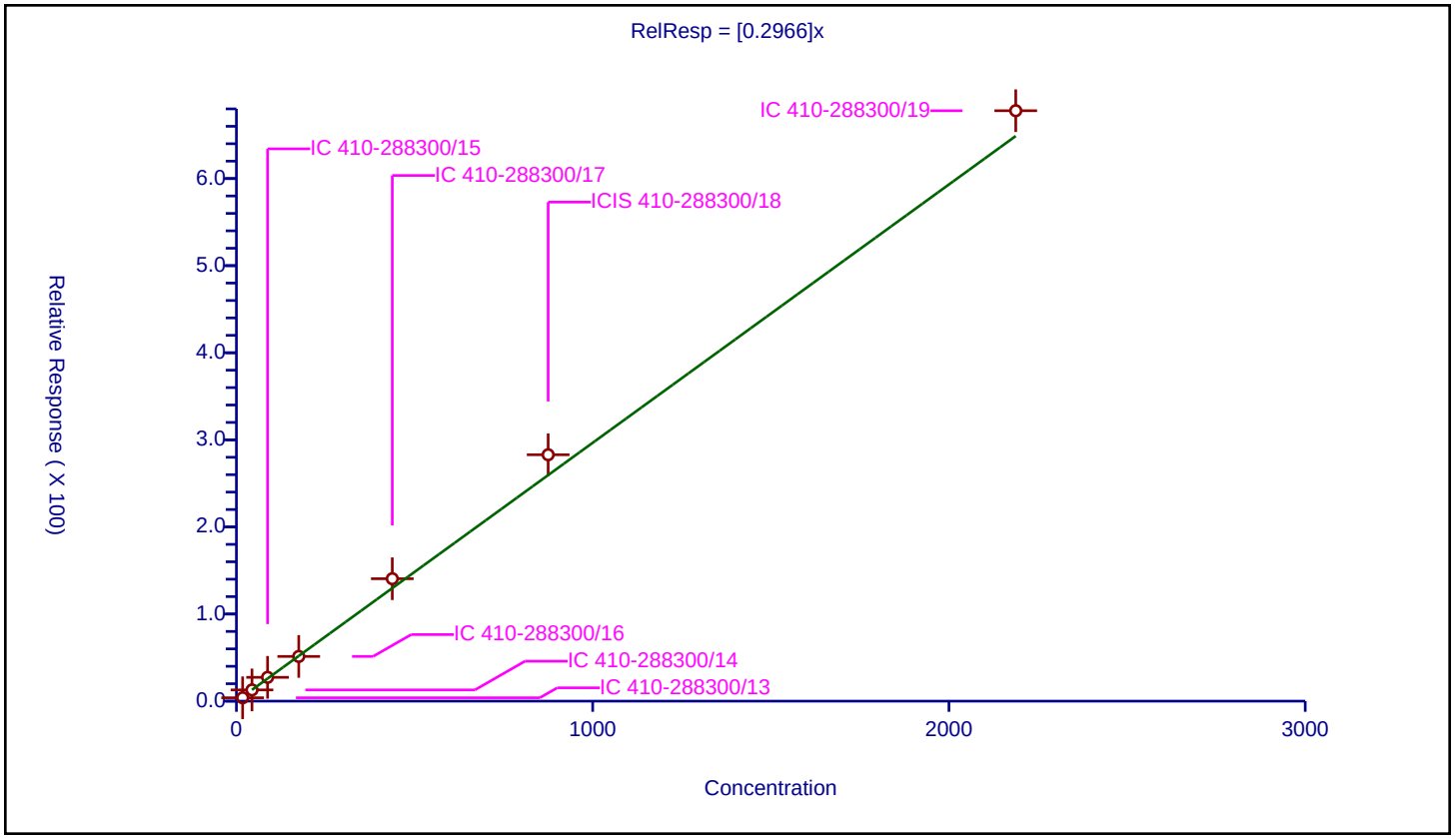
Curve Coefficients

Intercept:	0
Slope:	0.2966

Error Coefficients

Standard Error:	745000
Relative Standard Error:	11.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	17.5	3.877215	50.0	136580.0	0.221555	Y
2	IC 410-288300/14	43.75	12.886992	50.0	132044.0	0.29456	Y
3	IC 410-288300/15	87.5	27.324266	50.0	113154.0	0.312277	Y
4	IC 410-288300/16	175.0	51.331849	50.0	117656.0	0.293325	Y
5	IC 410-288300/17	437.5	140.571589	50.0	131878.0	0.321306	Y
6	ICIS 410-288300/18	875.0	282.908401	50.0	129707.0	0.323324	Y
7	IC 410-288300/19	2187.5	677.879605	50.0	119756.0	0.309888	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

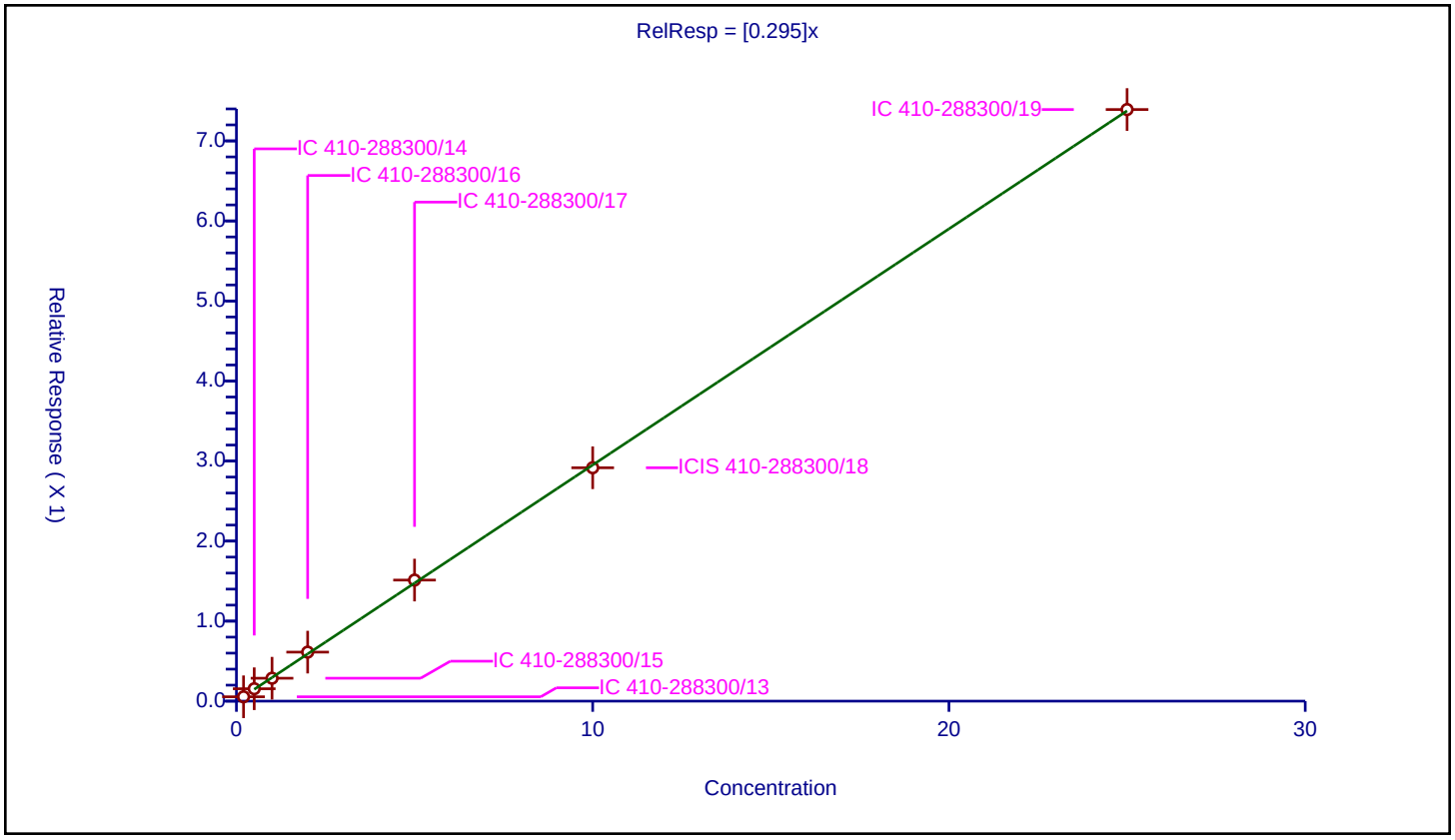
Curve Coefficients

Intercept:	0
Slope:	0.295

Error Coefficients

Standard Error:	666000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.054545	10.0	1993587.0	0.272724	Y
2	IC 410-288300/14	0.5	0.155058	10.0	1985770.0	0.310116	Y
3	IC 410-288300/15	1.0	0.286424	10.0	1978464.0	0.286424	Y
4	IC 410-288300/16	2.0	0.612338	10.0	1976130.0	0.306169	Y
5	IC 410-288300/17	5.0	1.512769	10.0	1966718.0	0.302554	Y
6	ICIS 410-288300/18	10.0	2.916088	10.0	1988424.0	0.291609	Y
7	IC 410-288300/19	25.0	7.391888	10.0	2013656.0	0.295676	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

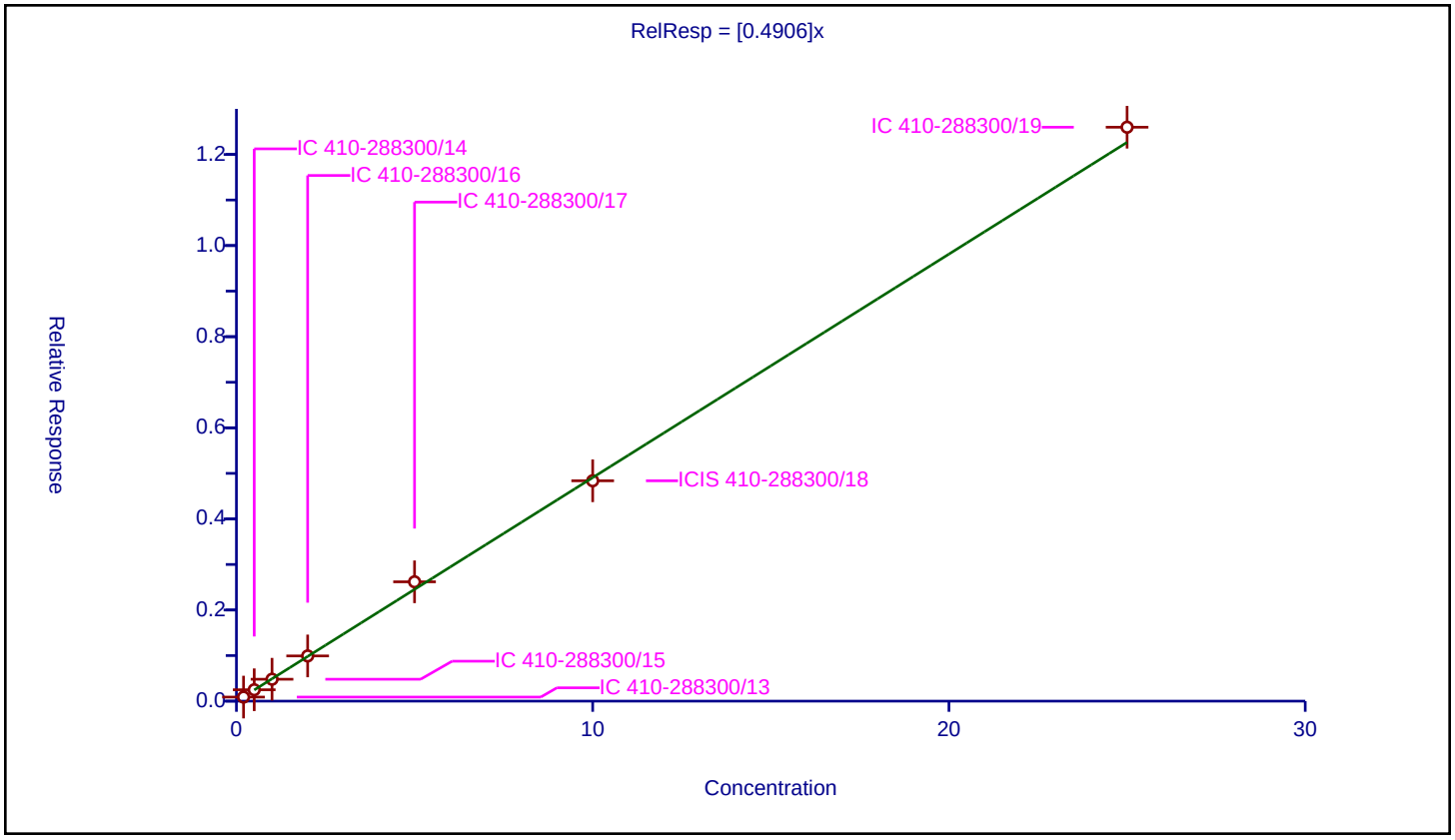
Curve Coefficients

Intercept:	0
Slope:	0.4906

Error Coefficients

Standard Error:	1130000
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 410-288300/13	0.2	0.089316	10.0	1993587.0	0.446582	Y
2	IC 410-288300/14	0.5	0.249702	10.0	1985770.0	0.499403	Y
3	IC 410-288300/15	1.0	0.480858	10.0	1978464.0	0.480858	Y
4	IC 410-288300/16	2.0	0.992222	10.0	1976130.0	0.496111	Y
5	IC 410-288300/17	5.0	2.619638	10.0	1966718.0	0.523928	Y
6	ICIS 410-288300/18	10.0	4.836841	10.0	1988424.0	0.483684	Y
7	IC 410-288300/19	25.0	12.597688	10.0	2013656.0	0.503908	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

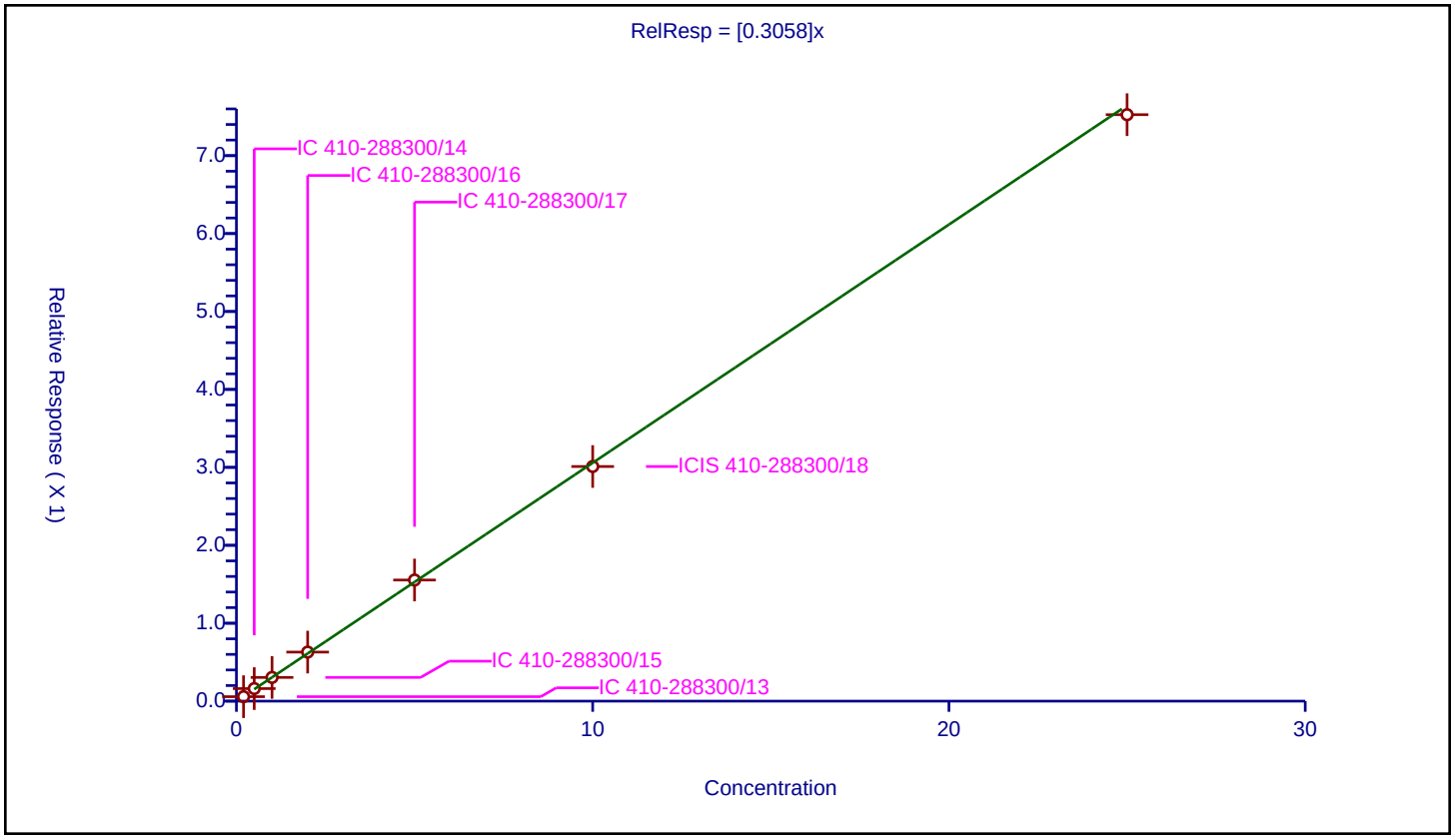
Curve Coefficients

Intercept:	0
Slope:	0.3058

Error Coefficients

Standard Error:	679000
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 410-288300/13	0.2	0.057173	10.0	1993587.0	0.285867	Y
2	IC 410-288300/14	0.5	0.161262	10.0	1985770.0	0.322525	Y
3	IC 410-288300/15	1.0	0.304463	10.0	1978464.0	0.304463	Y
4	IC 410-288300/16	2.0	0.629447	10.0	1976130.0	0.314724	Y
5	IC 410-288300/17	5.0	1.554132	10.0	1966718.0	0.310826	Y
6	ICIS 410-288300/18	10.0	3.010912	10.0	1988424.0	0.301091	Y
7	IC 410-288300/19	25.0	7.525819	10.0	2013656.0	0.301033	Y



Calibration / 1,4-Dioxane

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

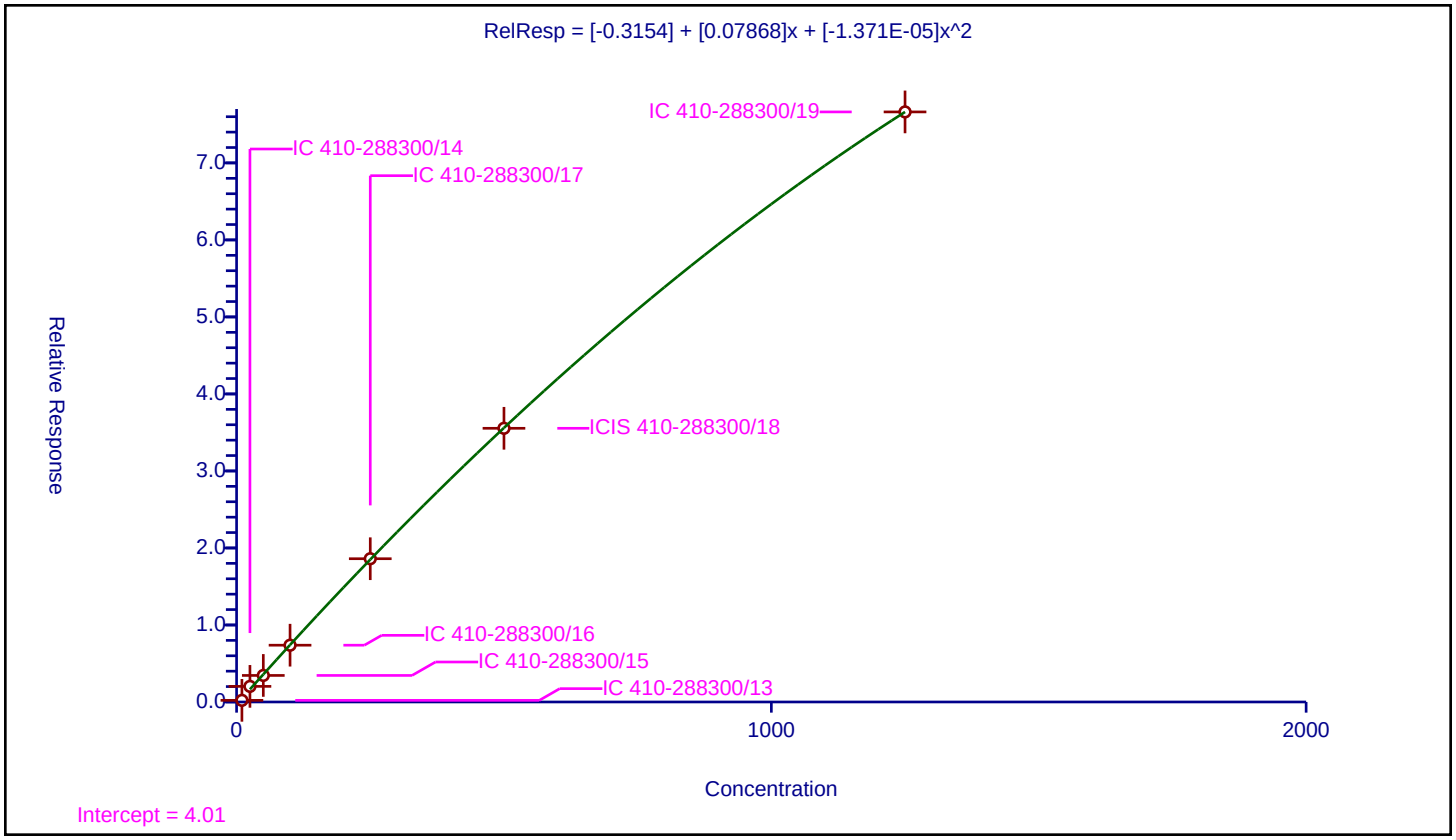
Curve Coefficients

Intercept:	-0.3154
Slope:	0.07868
Second Order:	-1.371E-05

Error Coefficients

Standard Error:	106000
Relative Standard Error:	19.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	10.0	0.21416	50.0	136580.0	0.021416	Y
2	IC 410-288300/14	25.0	2.026976	50.0	132044.0	0.081079	Y
3	IC 410-288300/15	50.0	3.445747	50.0	113154.0	0.068915	Y
4	IC 410-288300/16	100.0	7.37234	50.0	117656.0	0.073723	Y
5	IC 410-288300/17	250.0	18.605454	50.0	131878.0	0.074422	Y
6	ICIS 410-288300/18	500.0	35.539331	50.0	129707.0	0.071079	Y
7	IC 410-288300/19	1250.0	76.624136	50.0	119756.0	0.061299	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

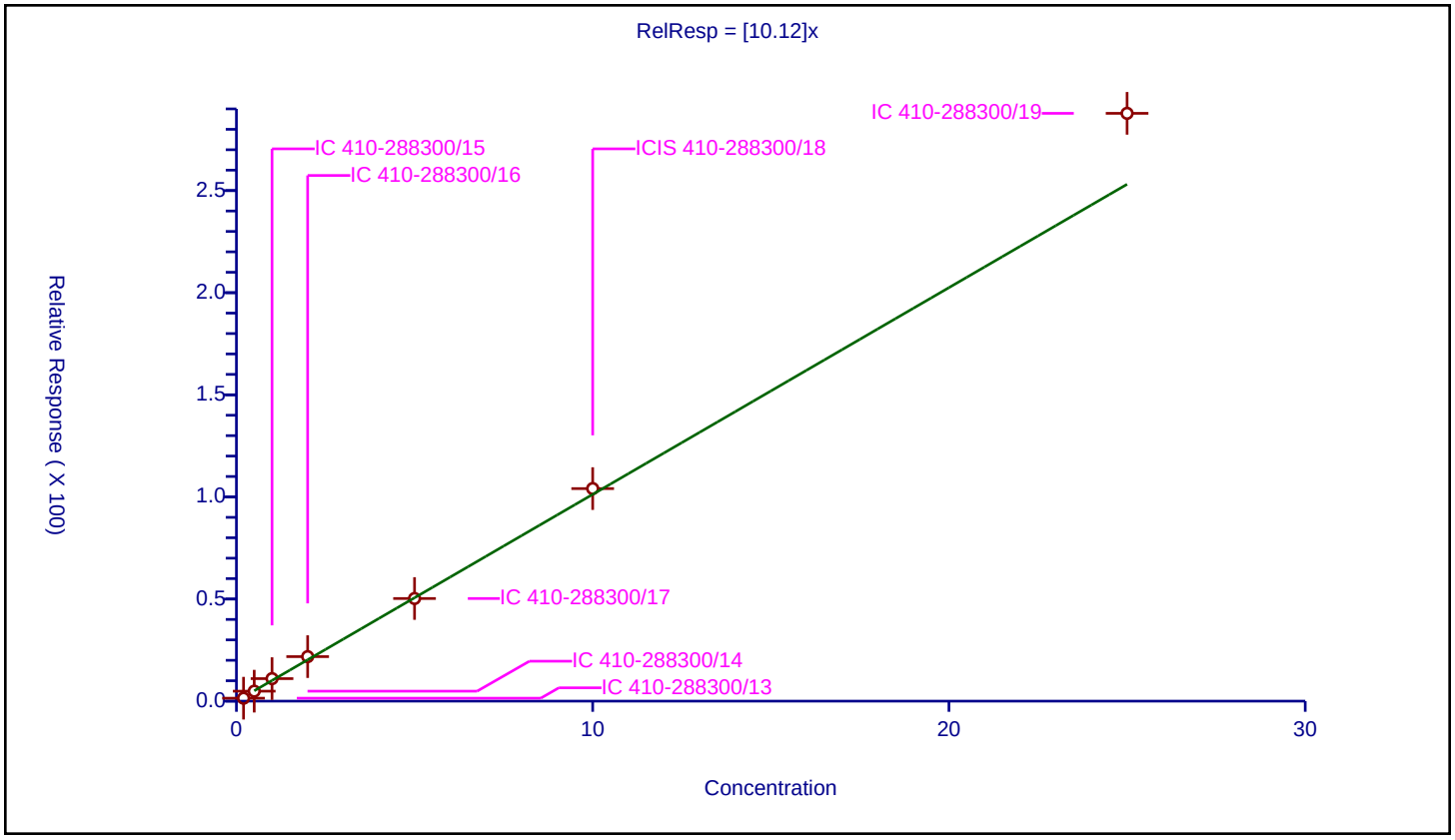
Curve Coefficients

Intercept:	0
Slope:	10.12

Error Coefficients

Standard Error:	308000
Relative Standard Error:	14.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	1.441646	50.0	136580.0	7.20823	Y
2	IC 410-288300/14	0.5	4.882842	50.0	132044.0	9.765684	Y
3	IC 410-288300/15	1.0	11.022147	50.0	113154.0	11.022147	Y
4	IC 410-288300/16	2.0	21.799143	50.0	117656.0	10.899572	Y
5	IC 410-288300/17	5.0	50.256297	50.0	131878.0	10.051259	Y
6	ICIS 410-288300/18	10.0	104.07611	50.0	129707.0	10.407611	Y
7	IC 410-288300/19	25.0	287.82775	50.0	119756.0	11.51311	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

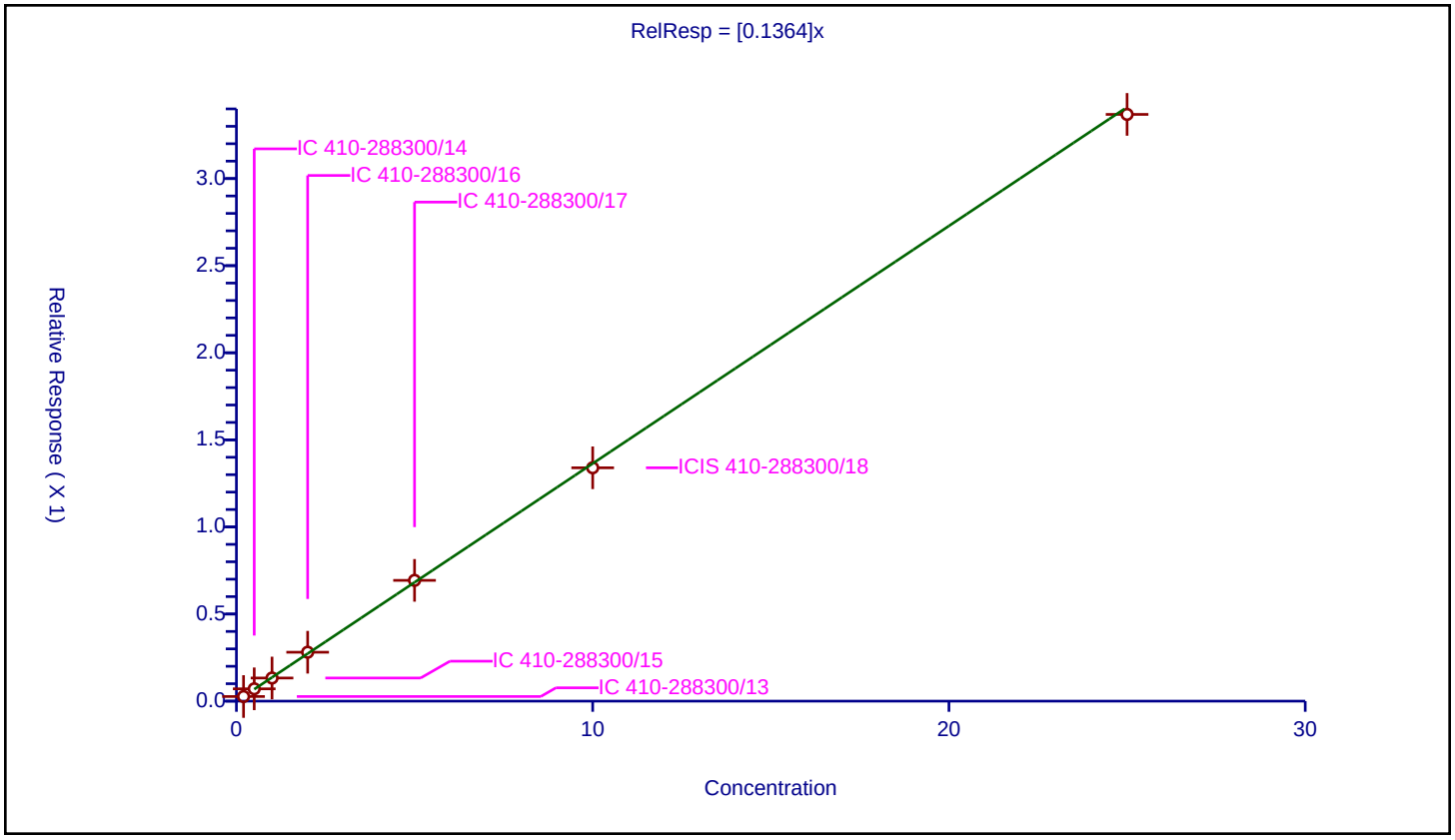
Curve Coefficients

Intercept:	0
Slope:	0.1364

Error Coefficients

Standard Error:	304000
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 410-288300/13	0.2	0.02655	10.0	1993587.0	0.132751	Y
2	IC 410-288300/14	0.5	0.070728	10.0	1985770.0	0.141456	Y
3	IC 410-288300/15	1.0	0.13283	10.0	1978464.0	0.13283	Y
4	IC 410-288300/16	2.0	0.280867	10.0	1976130.0	0.140434	Y
5	IC 410-288300/17	5.0	0.693323	10.0	1966718.0	0.138665	Y
6	ICIS 410-288300/18	10.0	1.339589	10.0	1988424.0	0.133959	Y
7	IC 410-288300/19	25.0	3.368376	10.0	2013656.0	0.134735	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

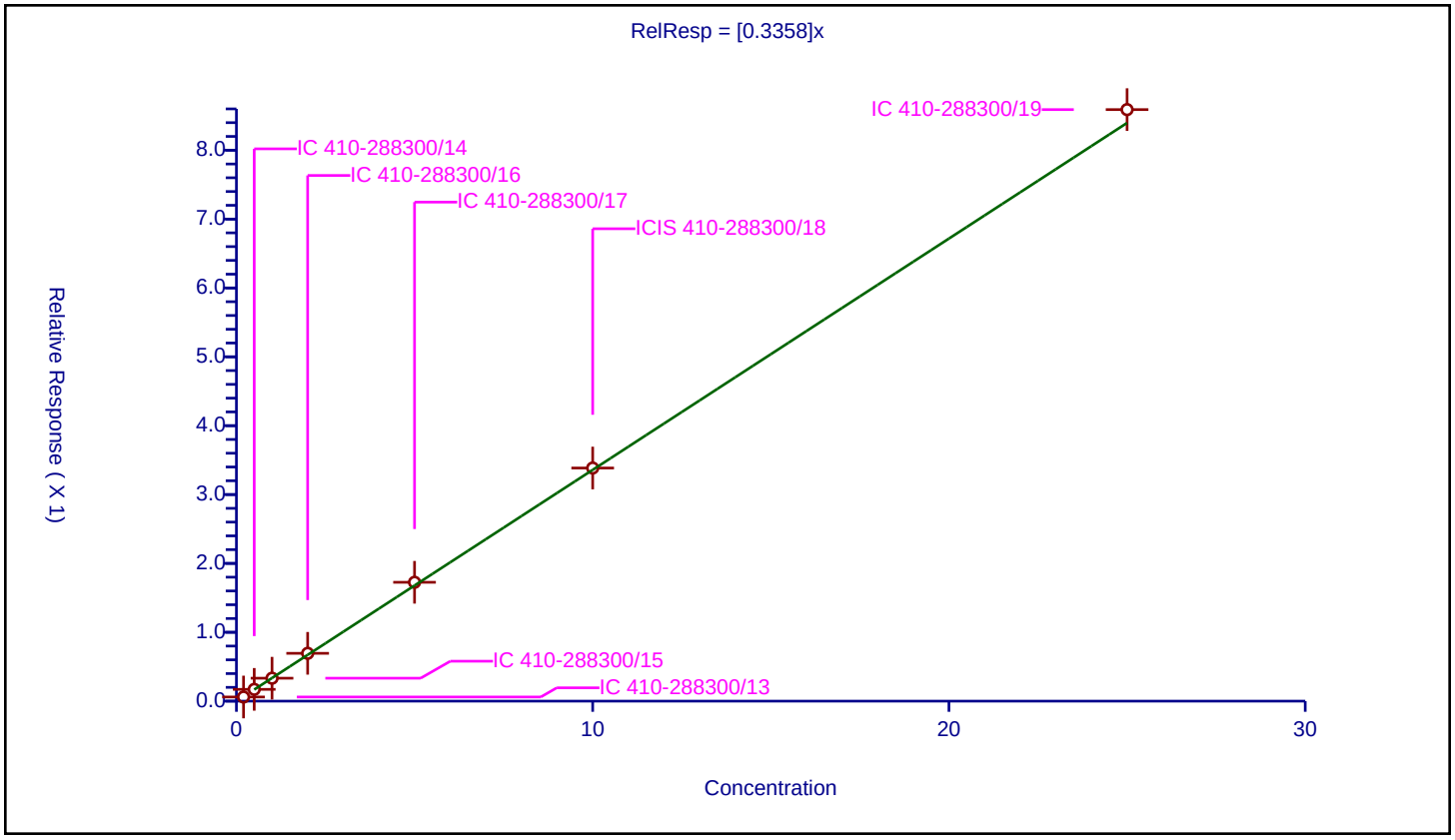
Curve Coefficients

Intercept:	0
Slope:	0.3358

Error Coefficients

Standard Error:	773000
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 410-288300/13	0.2	0.060228	10.0	1993587.0	0.301141	Y
2	IC 410-288300/14	0.5	0.171178	10.0	1985770.0	0.342356	Y
3	IC 410-288300/15	1.0	0.332996	10.0	1978464.0	0.332996	Y
4	IC 410-288300/16	2.0	0.694312	10.0	1976130.0	0.347156	Y
5	IC 410-288300/17	5.0	1.725967	10.0	1966718.0	0.345193	Y
6	ICIS 410-288300/18	10.0	3.385068	10.0	1988424.0	0.338507	Y
7	IC 410-288300/19	25.0	8.589486	10.0	2013656.0	0.343579	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

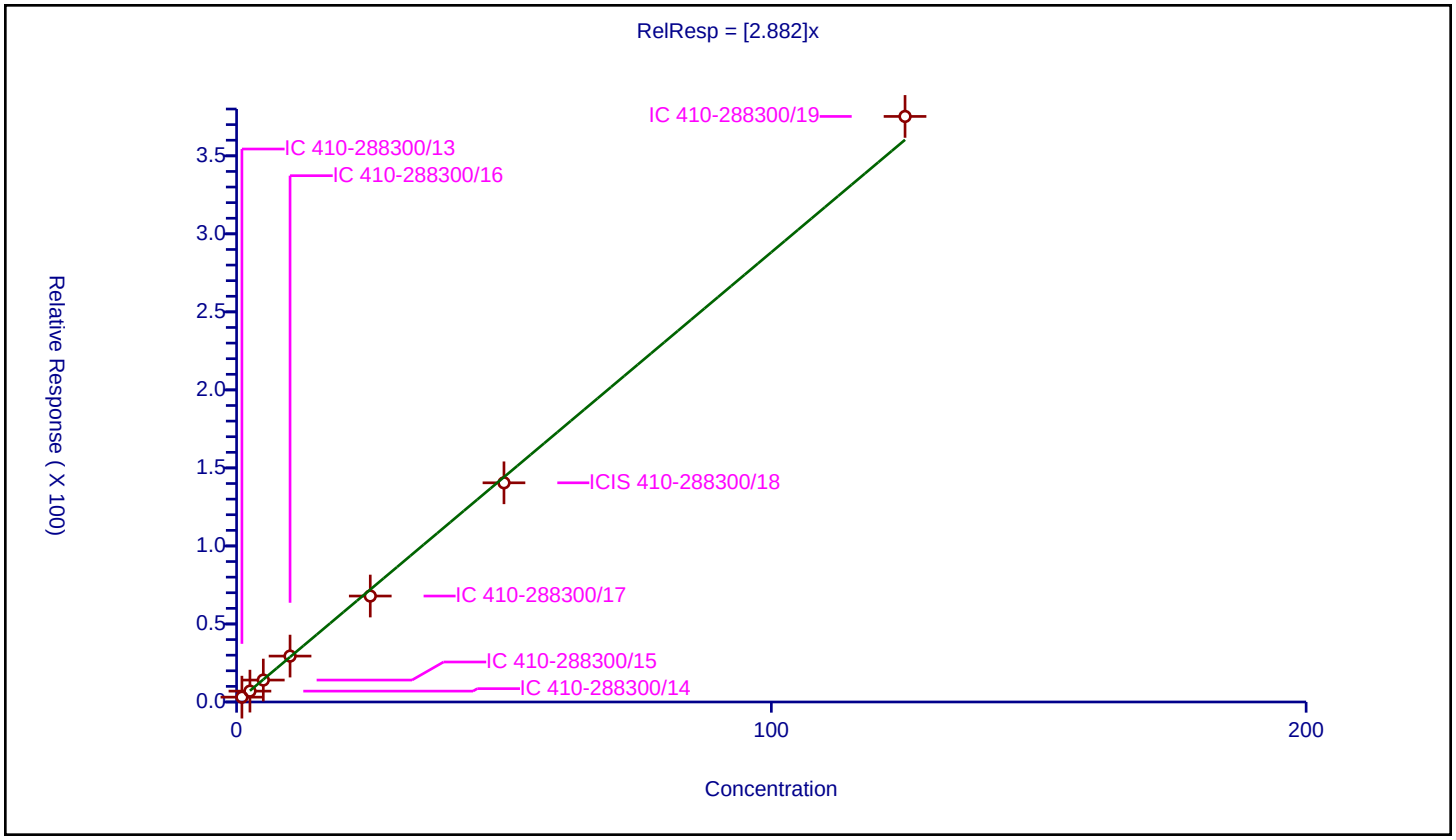
Curve Coefficients

Intercept:	0
Slope:	2.882

Error Coefficients

Standard Error:	404000
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 410-288300/13	1.0	3.109899	50.0	136580.0	3.109899	Y
2	IC 410-288300/14	2.5	6.970404	50.0	132044.0	2.788162	Y
3	IC 410-288300/15	5.0	14.048553	50.0	113154.0	2.809711	Y
4	IC 410-288300/16	10.0	29.412865	50.0	117656.0	2.941286	Y
5	IC 410-288300/17	25.0	67.896844	50.0	131878.0	2.715874	Y
6	ICIS 410-288300/18	50.0	140.45464	50.0	129707.0	2.809093	Y
7	IC 410-288300/19	125.0	375.246752	50.0	119756.0	3.001974	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

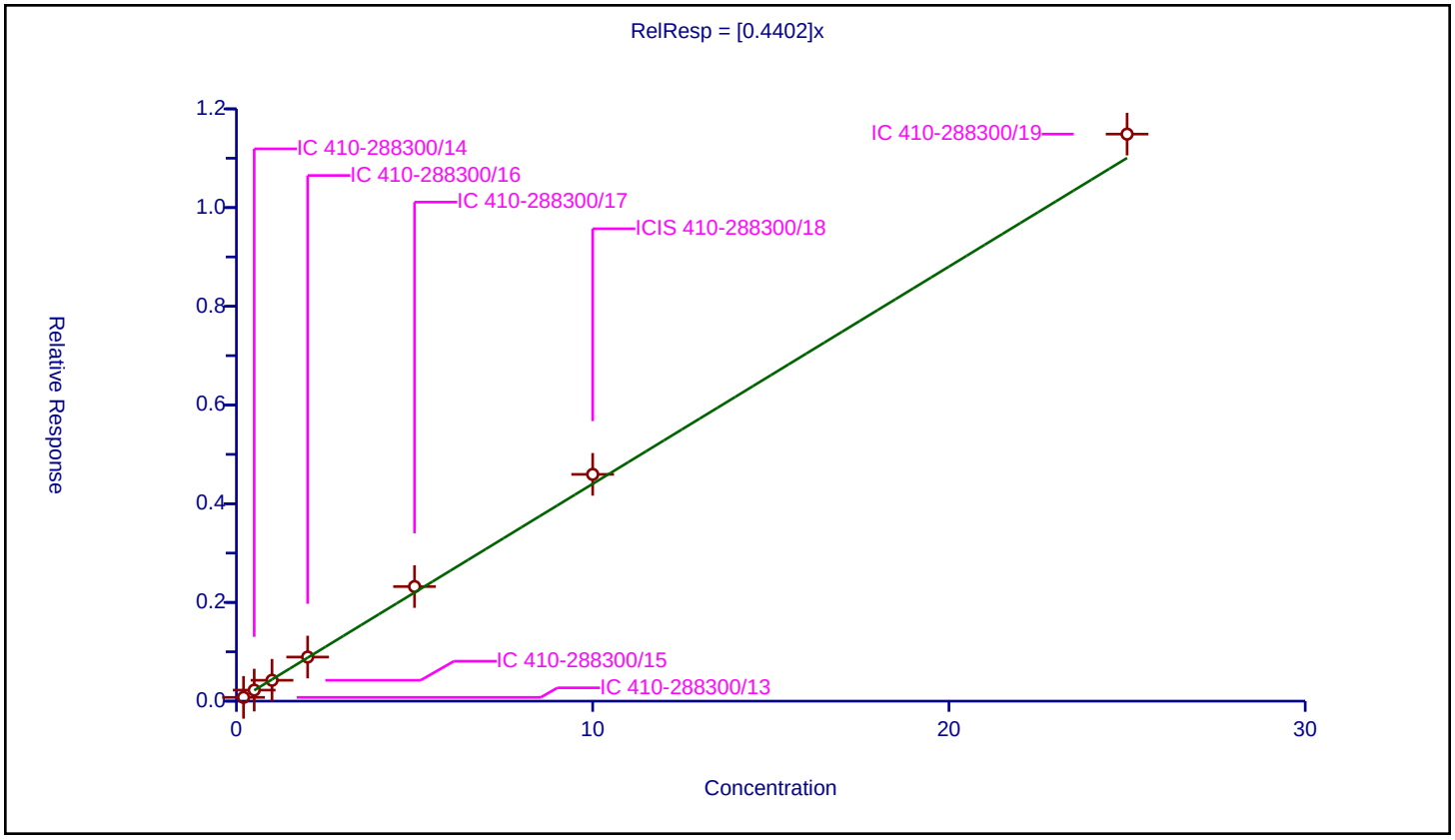
Curve Coefficients

Intercept:	0
Slope:	0.4402

Error Coefficients

Standard Error:	1040000
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 410-288300/13	0.2	0.07639	10.0	1993587.0	0.38195	Y
2	IC 410-288300/14	0.5	0.223445	10.0	1985770.0	0.44689	Y
3	IC 410-288300/15	1.0	0.422636	10.0	1978464.0	0.422636	Y
4	IC 410-288300/16	2.0	0.893534	10.0	1976130.0	0.446767	Y
5	IC 410-288300/17	5.0	2.321655	10.0	1966718.0	0.464331	Y
6	ICIS 410-288300/18	10.0	4.595001	10.0	1988424.0	0.4595	Y
7	IC 410-288300/19	25.0	11.489177	10.0	2013656.0	0.459567	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

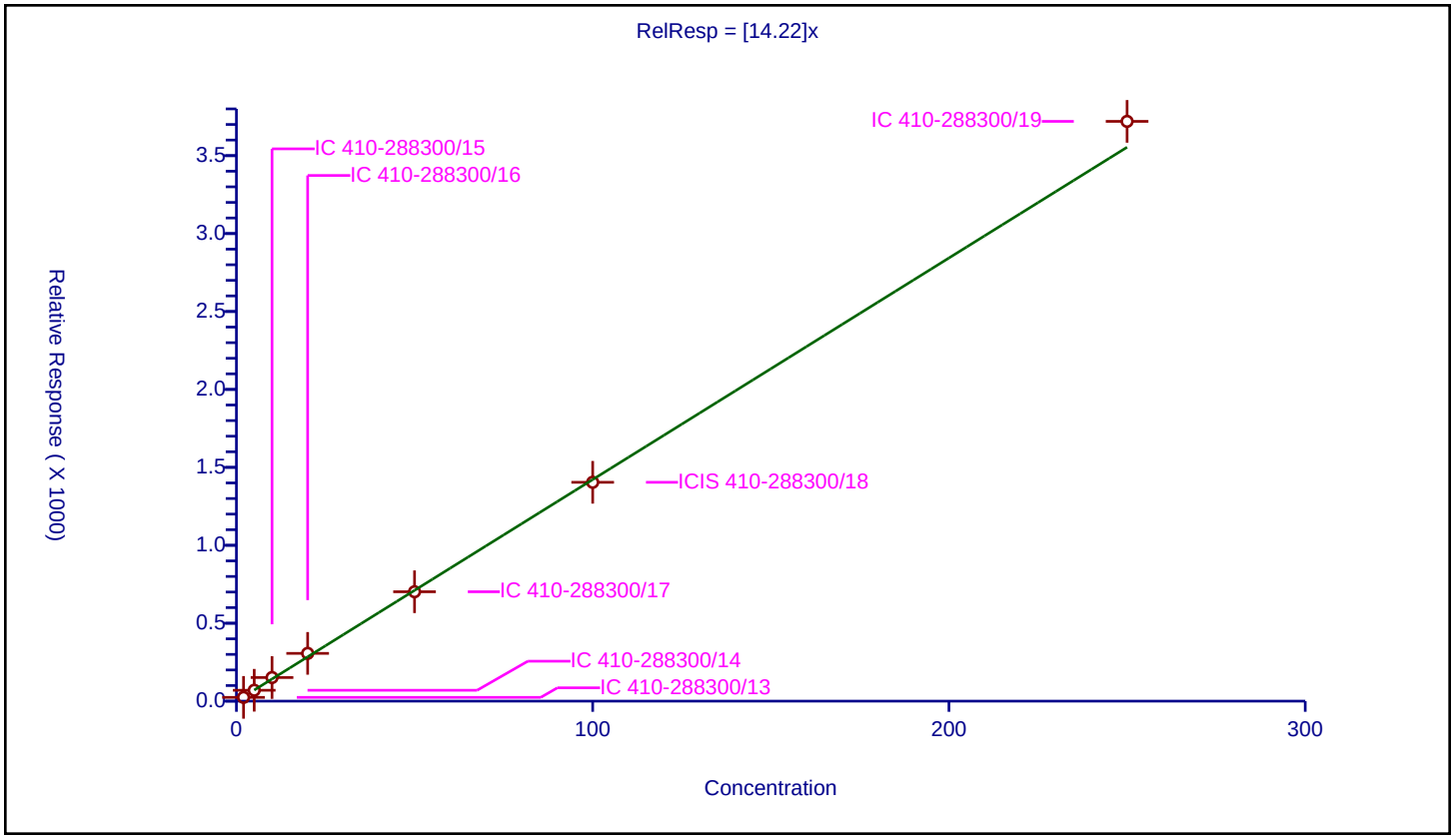
Curve Coefficients

Intercept:	0
Slope:	14.22

Error Coefficients

Standard Error:	4010000
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 410-288300/13	2.0	24.235247	50.0	136580.0	12.117623	Y
2	IC 410-288300/14	5.0	69.841871	50.0	132044.0	13.968374	Y
3	IC 410-288300/15	10.0	151.415328	50.0	113154.0	15.141533	Y
4	IC 410-288300/16	20.0	306.550452	50.0	117656.0	15.327523	Y
5	IC 410-288300/17	50.0	701.978344	50.0	131878.0	14.039567	Y
6	ICIS 410-288300/18	100.0	1404.135475	50.0	129707.0	14.041355	Y
7	IC 410-288300/19	250.0	3719.882094	50.0	119756.0	14.879528	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

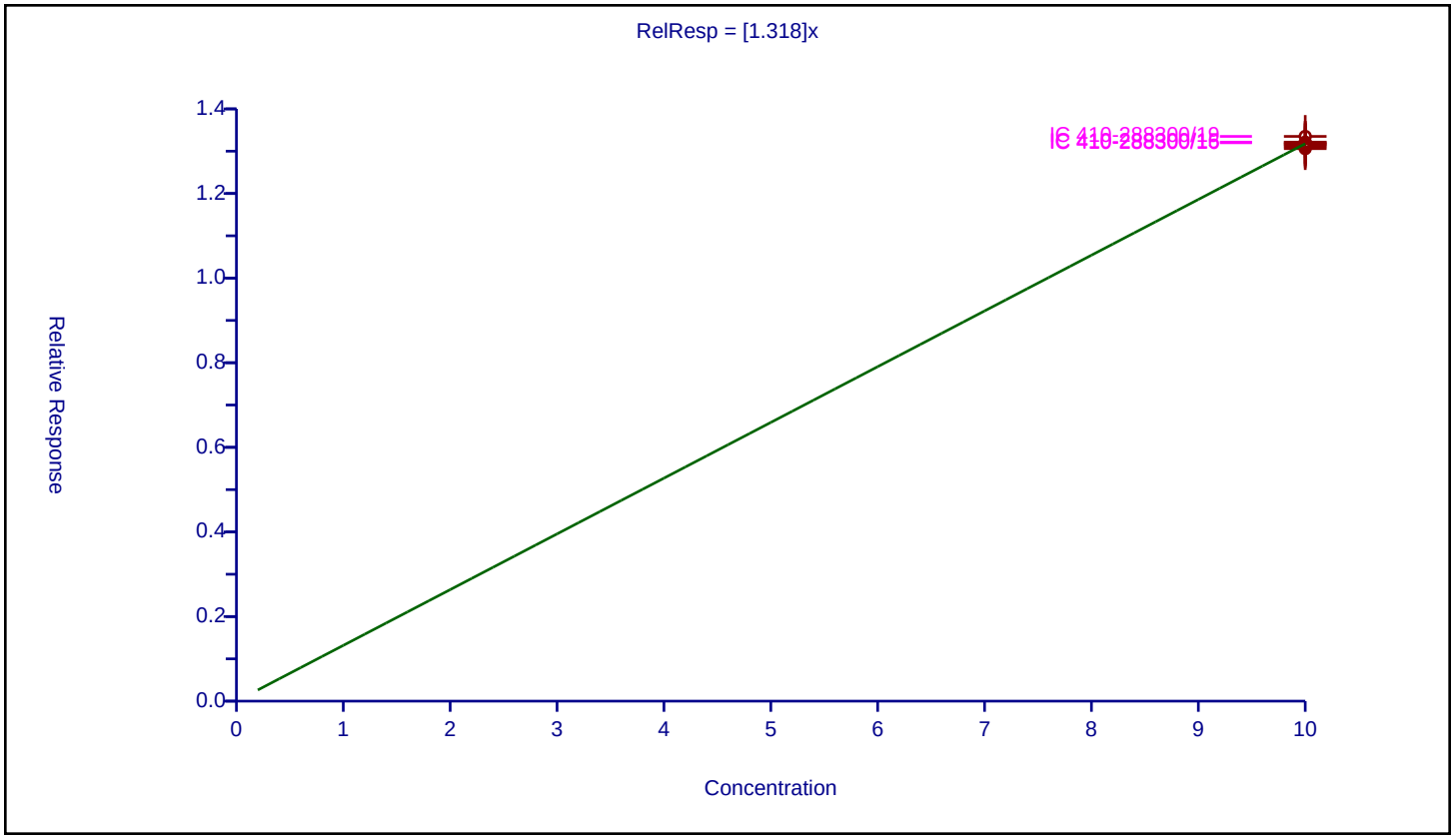
Curve Coefficients

Intercept:	0
Slope:	1.318

Error Coefficients

Standard Error:	2170000
Relative Standard Error:	0.7
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	10.0	13.104591	10.0	1542113.0	1.310459	Y
2	IC 410-288300/14	10.0	13.059751	10.0	1536465.0	1.305975	Y
3	IC 410-288300/15	10.0	13.214526	10.0	1510198.0	1.321453	Y
4	IC 410-288300/16	10.0	13.199246	10.0	1510978.0	1.319925	Y
5	IC 410-288300/17	10.0	13.144632	10.0	1523078.0	1.314463	Y
6	ICIS 410-288300/18	10.0	13.164422	10.0	1523479.0	1.316442	Y
7	IC 410-288300/19	10.0	13.349615	10.0	1542455.0	1.334961	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

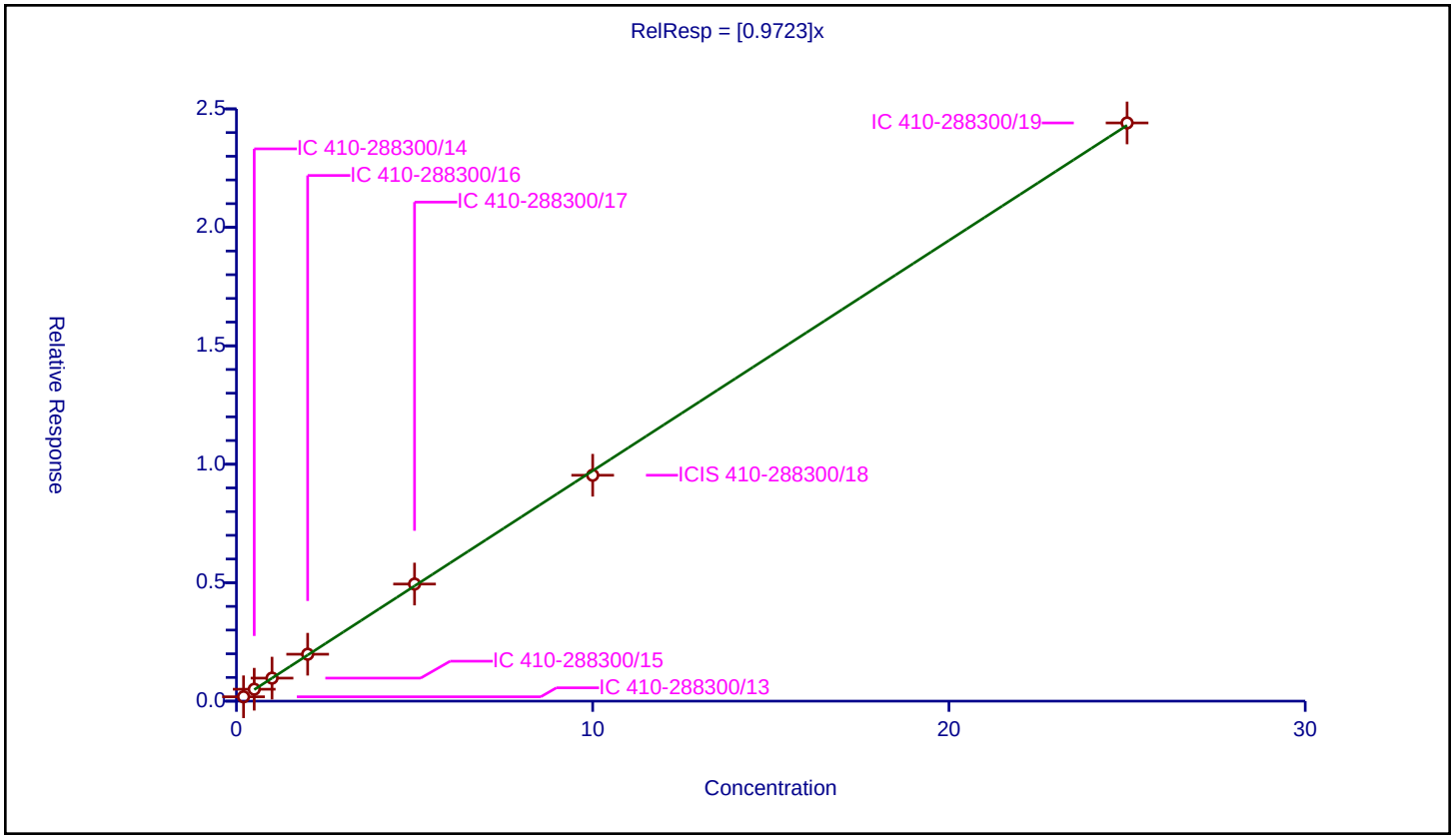
Curve Coefficients

Intercept:	0
Slope:	0.9723

Error Coefficients

Standard Error:	1680000
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 410-288300/13	0.2	0.18391	10.0	1542113.0	0.91955	Y
2	IC 410-288300/14	0.5	0.502849	10.0	1536465.0	1.005698	Y
3	IC 410-288300/15	1.0	0.97229	10.0	1510198.0	0.97229	Y
4	IC 410-288300/16	2.0	1.980538	10.0	1510978.0	0.990269	Y
5	IC 410-288300/17	5.0	4.942879	10.0	1523078.0	0.988576	Y
6	ICIS 410-288300/18	10.0	9.535399	10.0	1523479.0	0.95354	Y
7	IC 410-288300/19	25.0	24.407701	10.0	1542455.0	0.976308	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

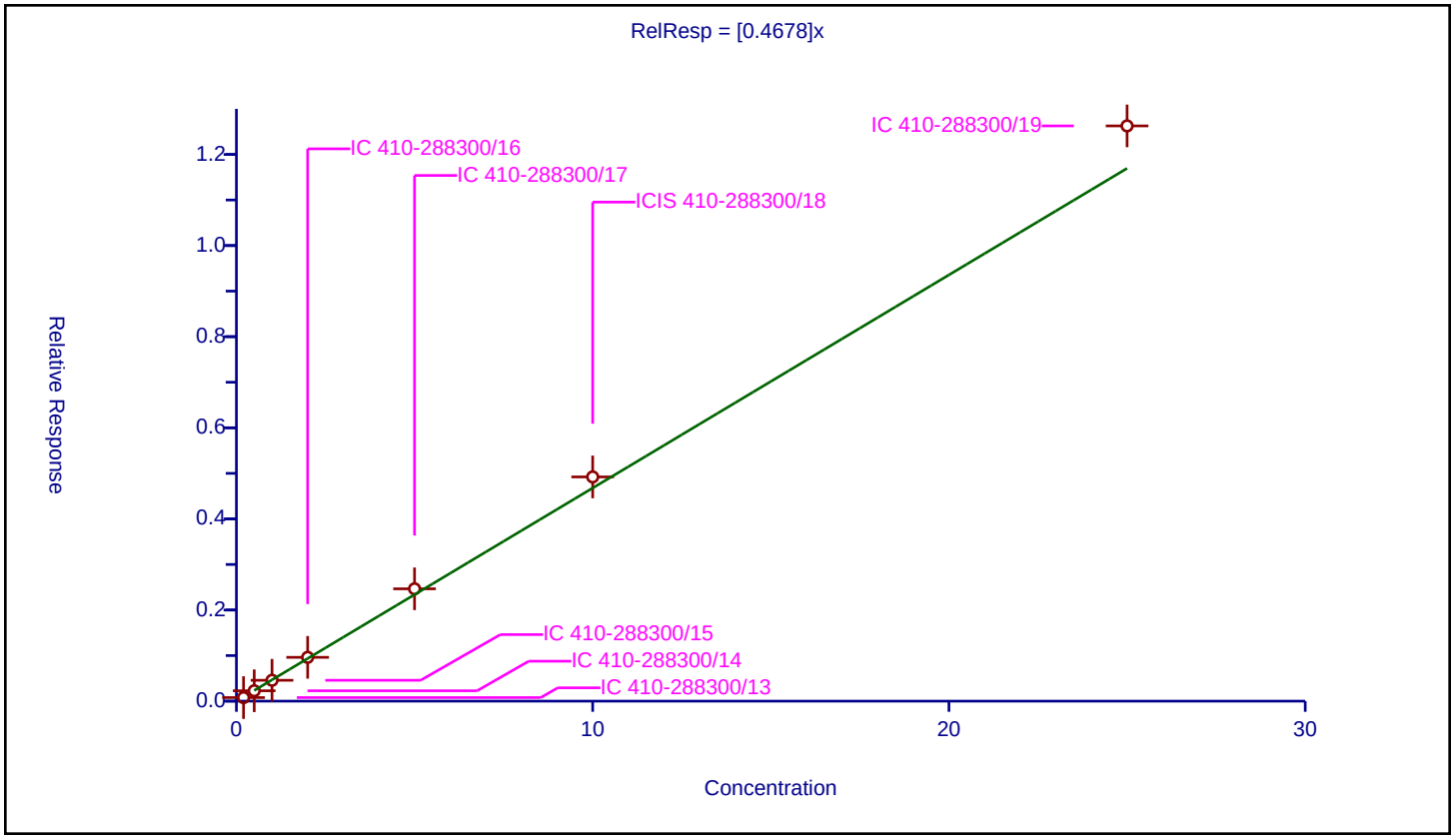
Curve Coefficients

Intercept:	0
Slope:	0.4678

Error Coefficients

Standard Error:	868000
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 410-288300/13	0.2	0.078029	10.0	1542113.0	0.390147	Y
2	IC 410-288300/14	0.5	0.227789	10.0	1536465.0	0.455578	Y
3	IC 410-288300/15	1.0	0.45788	10.0	1510198.0	0.45788	Y
4	IC 410-288300/16	2.0	0.961252	10.0	1510978.0	0.480626	Y
5	IC 410-288300/17	5.0	2.465435	10.0	1523078.0	0.493087	Y
6	ICIS 410-288300/18	10.0	4.921781	10.0	1523479.0	0.492178	Y
7	IC 410-288300/19	25.0	12.626618	10.0	1542455.0	0.505065	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

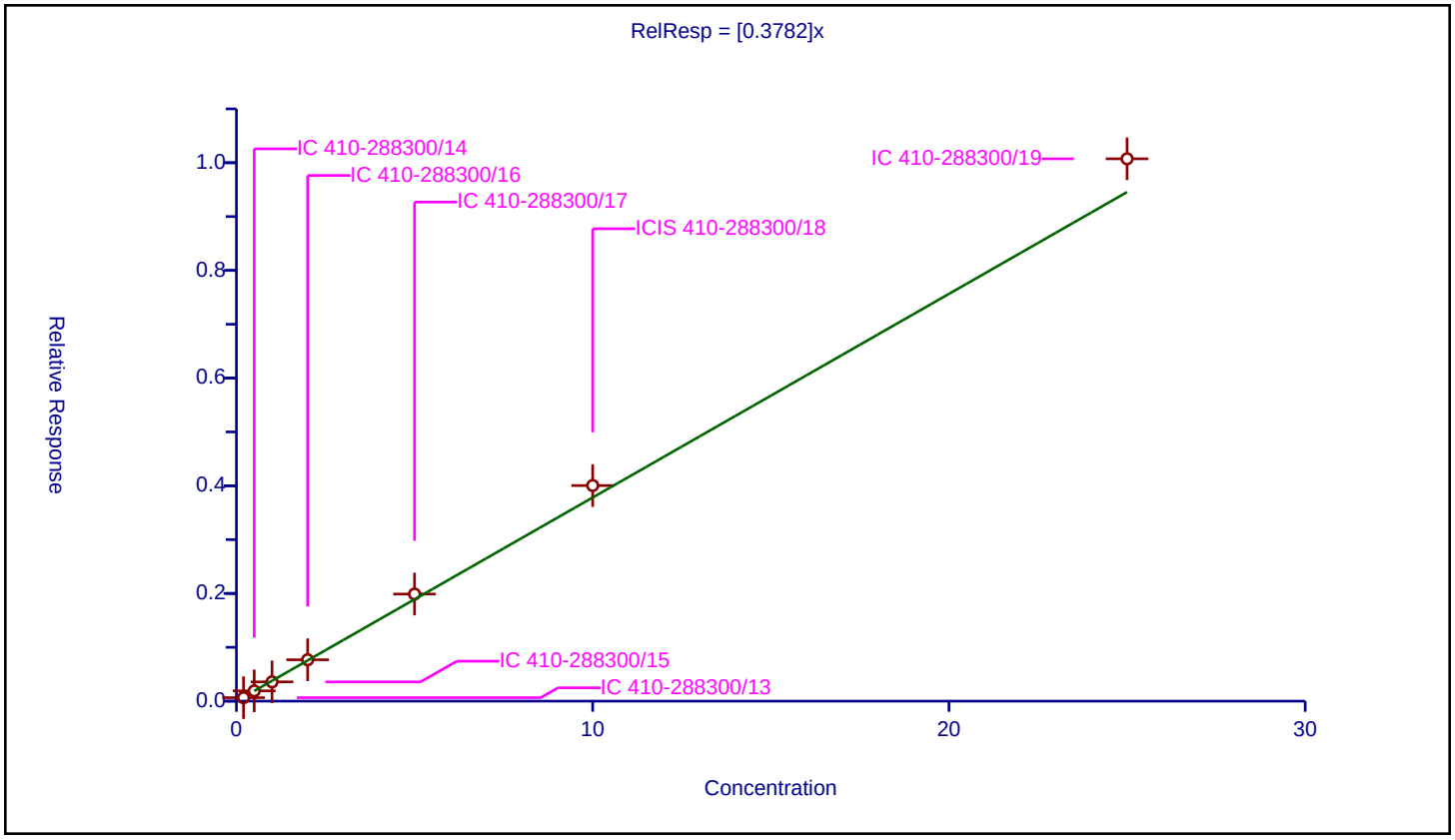
Curve Coefficients

Intercept:	0
Slope:	0.3782

Error Coefficients

Standard Error:	695000
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 410-288300/13	0.2	0.064632	10.0	1542113.0	0.32316	Y
2	IC 410-288300/14	0.5	0.190463	10.0	1536465.0	0.380926	Y
3	IC 410-288300/15	1.0	0.357834	10.0	1510198.0	0.357834	Y
4	IC 410-288300/16	2.0	0.768595	10.0	1510978.0	0.384297	Y
5	IC 410-288300/17	5.0	1.988966	10.0	1523078.0	0.397793	Y
6	ICIS 410-288300/18	10.0	4.004374	10.0	1523479.0	0.400437	Y
7	IC 410-288300/19	25.0	10.072819	10.0	1542455.0	0.402913	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

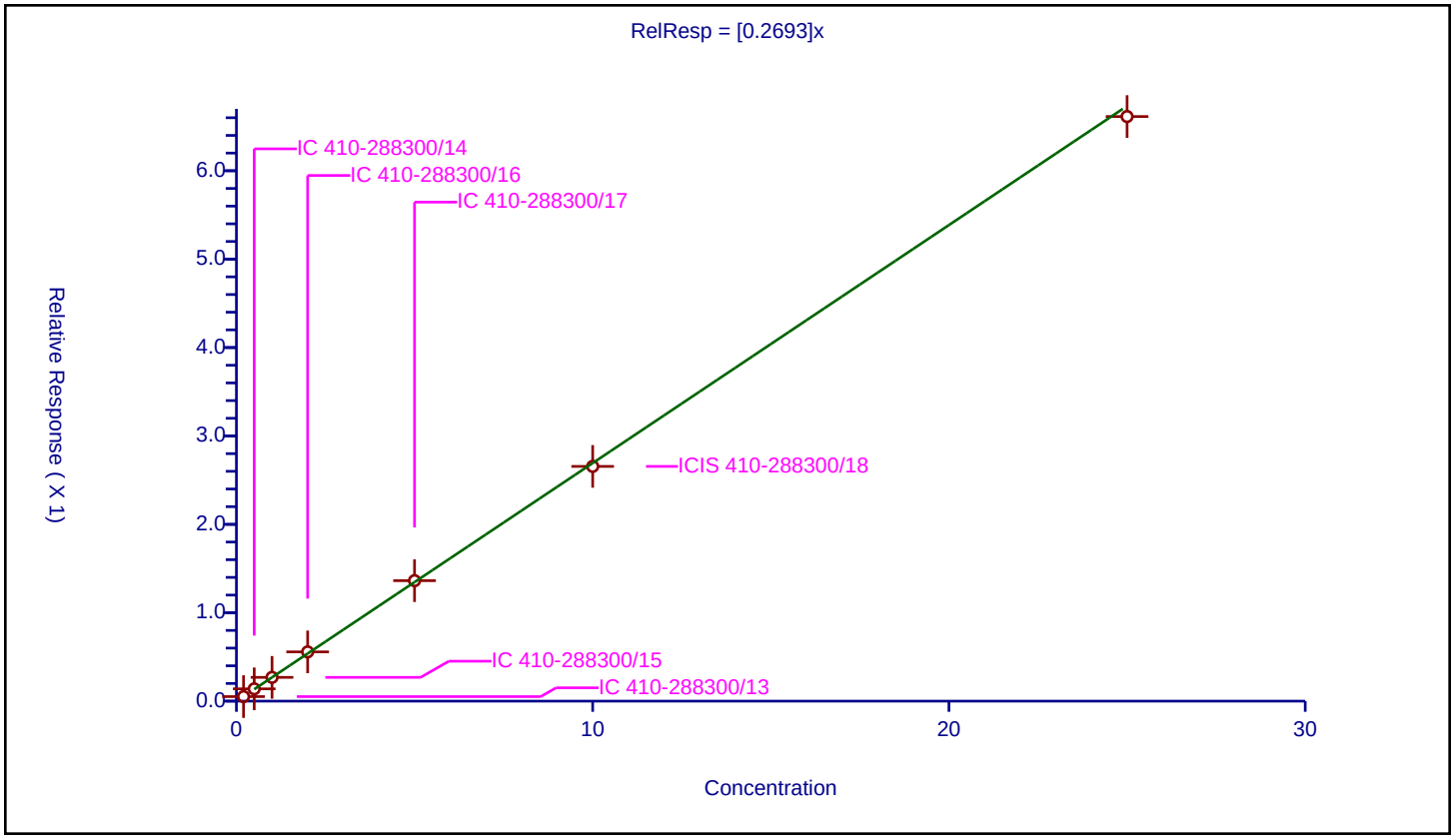
Curve Coefficients

Intercept:	0
Slope:	0.2693

Error Coefficients

Standard Error:	458000
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 410-288300/13	0.2	0.051306	10.0	1542113.0	0.256531	Y
2	IC 410-288300/14	0.5	0.139112	10.0	1536465.0	0.278223	Y
3	IC 410-288300/15	1.0	0.269018	10.0	1510198.0	0.269018	Y
4	IC 410-288300/16	2.0	0.557321	10.0	1510978.0	0.278661	Y
5	IC 410-288300/17	5.0	1.362931	10.0	1523078.0	0.272586	Y
6	ICIS 410-288300/18	10.0	2.65558	10.0	1523479.0	0.265558	Y
7	IC 410-288300/19	25.0	6.61349	10.0	1542455.0	0.26454	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

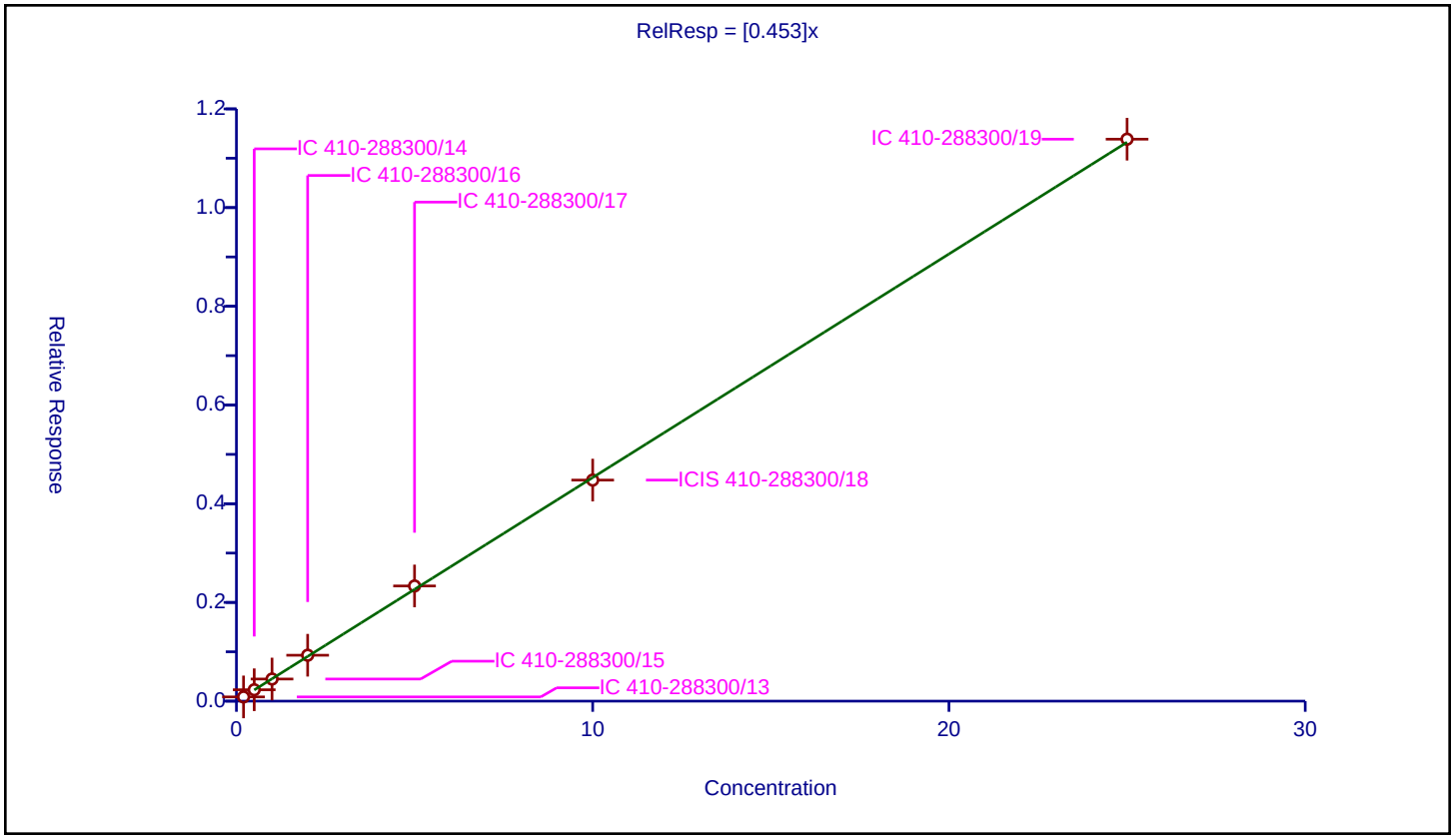
Curve Coefficients

Intercept:	0
Slope:	0.453

Error Coefficients

Standard Error:	786000
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 410-288300/13	0.2	0.085286	10.0	1542113.0	0.426428	Y
2	IC 410-288300/14	0.5	0.230614	10.0	1536465.0	0.461228	Y
3	IC 410-288300/15	1.0	0.44812	10.0	1510198.0	0.44812	Y
4	IC 410-288300/16	2.0	0.930292	10.0	1510978.0	0.465146	Y
5	IC 410-288300/17	5.0	2.333787	10.0	1523078.0	0.466757	Y
6	ICIS 410-288300/18	10.0	4.478815	10.0	1523479.0	0.447881	Y
7	IC 410-288300/19	25.0	11.38666	10.0	1542455.0	0.455466	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

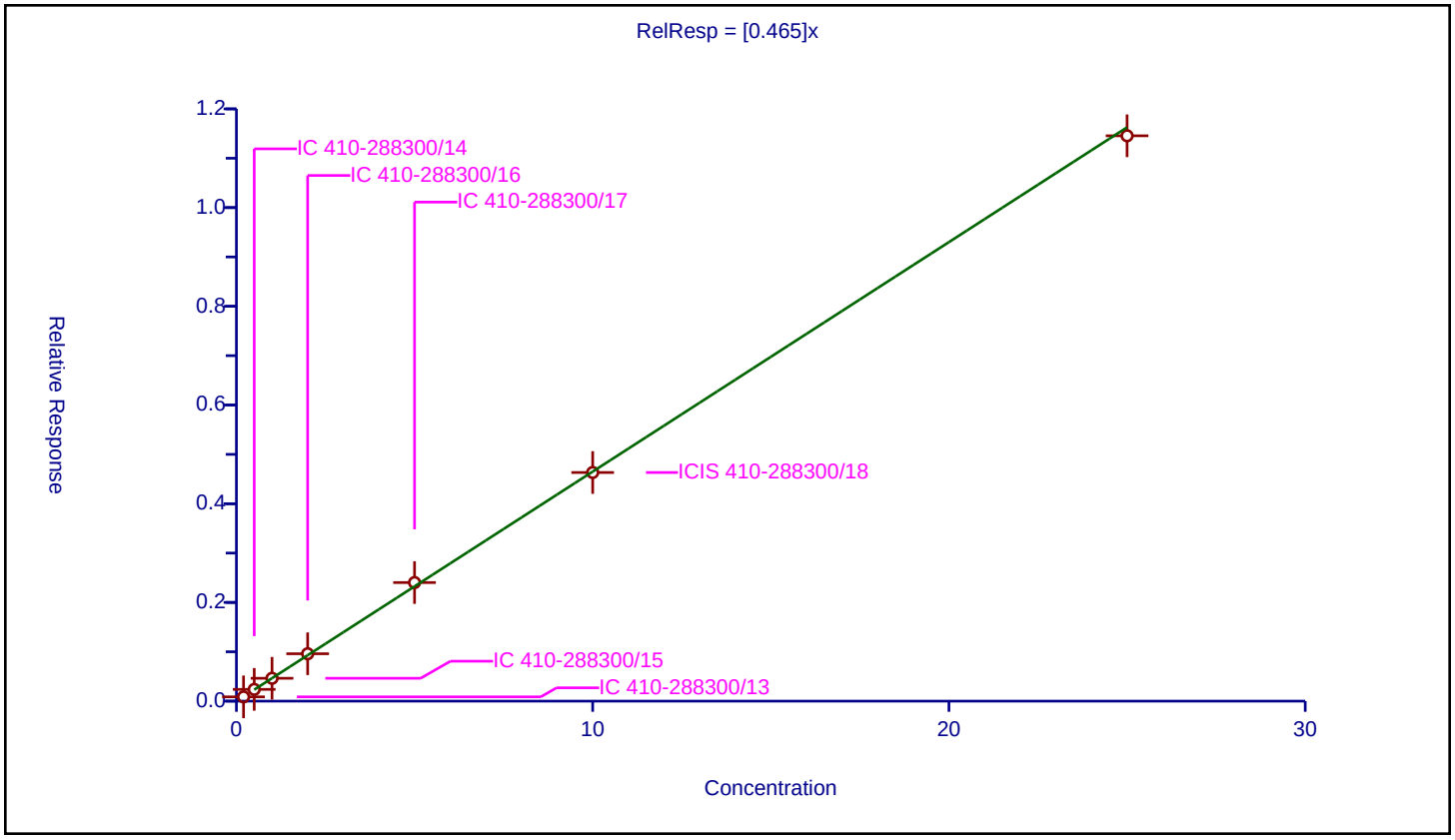
Curve Coefficients

Intercept:	0
Slope:	0.465

Error Coefficients

Standard Error:	794000
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 410-288300/13	0.2	0.086667	10.0	1542113.0	0.433334	Y
2	IC 410-288300/14	0.5	0.238209	10.0	1536465.0	0.476418	Y
3	IC 410-288300/15	1.0	0.463284	10.0	1510198.0	0.463284	Y
4	IC 410-288300/16	2.0	0.960391	10.0	1510978.0	0.480196	Y
5	IC 410-288300/17	5.0	2.403061	10.0	1523078.0	0.480612	Y
6	ICIS 410-288300/18	10.0	4.632476	10.0	1523479.0	0.463248	Y
7	IC 410-288300/19	25.0	11.455083	10.0	1542455.0	0.458203	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

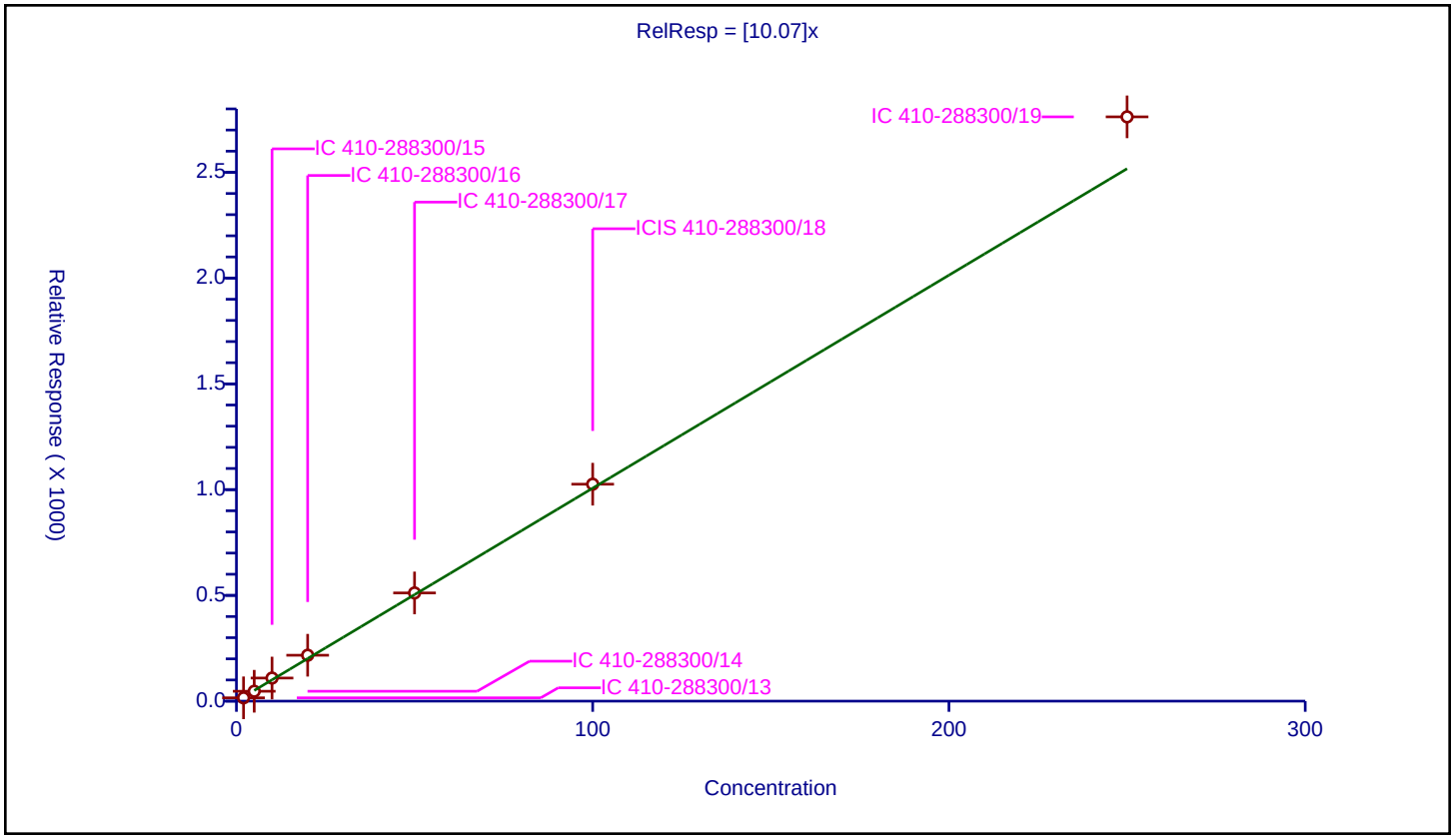
Curve Coefficients

Intercept:	0
Slope:	10.07

Error Coefficients

Standard Error:	2970000
Relative Standard Error:	11.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	2.0	15.641016	50.0	136580.0	7.820508	Y
2	IC 410-288300/14	5.0	46.798037	50.0	132044.0	9.359607	Y
3	IC 410-288300/15	10.0	109.174223	50.0	113154.0	10.917422	Y
4	IC 410-288300/16	20.0	216.959611	50.0	117656.0	10.847981	Y
5	IC 410-288300/17	50.0	511.583054	50.0	131878.0	10.231661	Y
6	ICIS 410-288300/18	100.0	1025.725289	50.0	129707.0	10.257253	Y
7	IC 410-288300/19	250.0	2762.346354	50.0	119756.0	11.049385	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

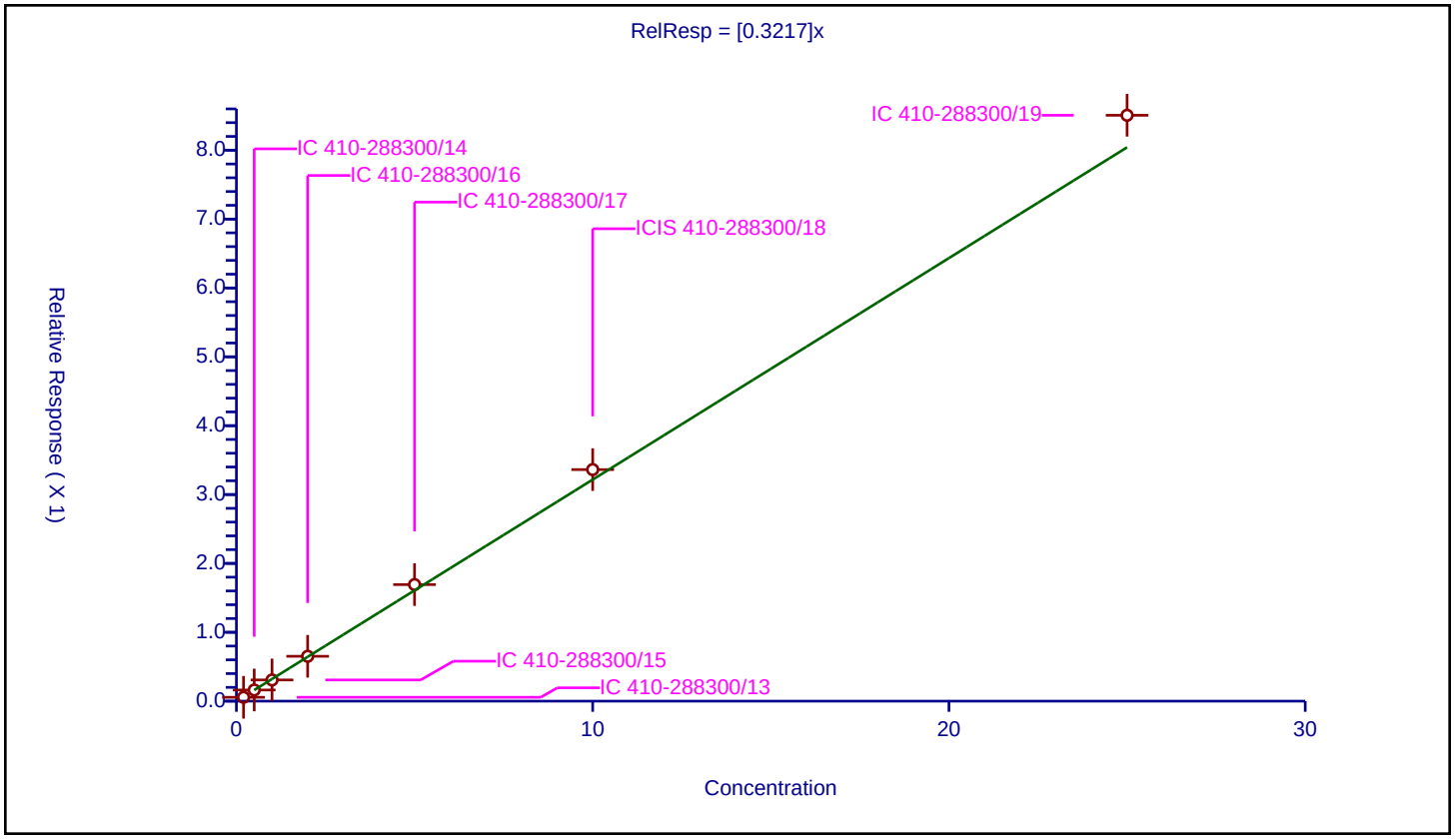
Curve Coefficients

Intercept:	0
Slope:	0.3217

Error Coefficients

Standard Error:	586000
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 410-288300/13	0.2	0.055904	10.0	1542113.0	0.279519	Y
2	IC 410-288300/14	0.5	0.161793	10.0	1536465.0	0.323587	Y
3	IC 410-288300/15	1.0	0.307781	10.0	1510198.0	0.307781	Y
4	IC 410-288300/16	2.0	0.651518	10.0	1510978.0	0.325759	Y
5	IC 410-288300/17	5.0	1.692756	10.0	1523078.0	0.338551	Y
6	ICIS 410-288300/18	10.0	3.362291	10.0	1523479.0	0.336229	Y
7	IC 410-288300/19	25.0	8.507263	10.0	1542455.0	0.340291	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

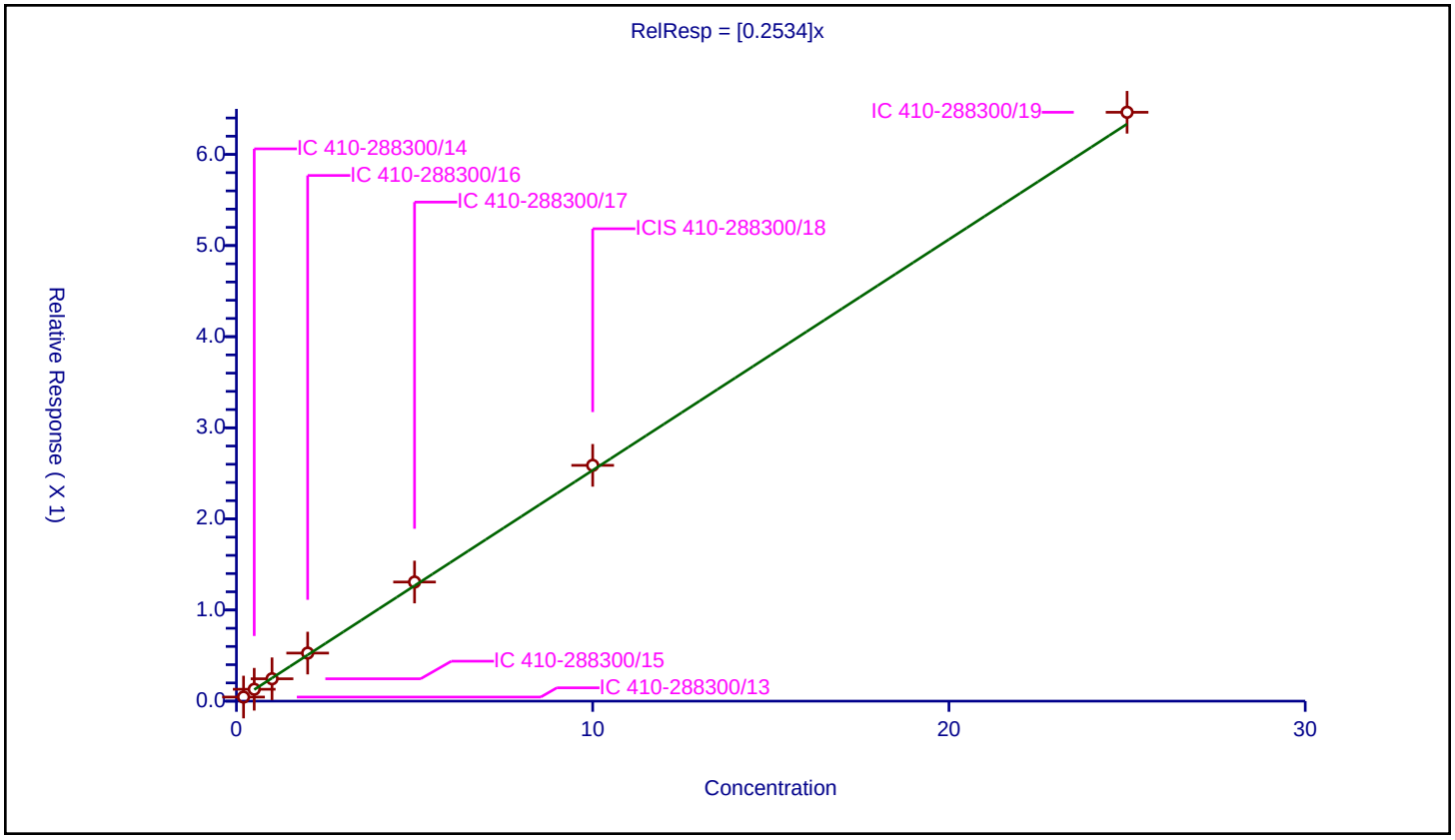
Curve Coefficients

Intercept:	0
Slope:	0.2534

Error Coefficients

Standard Error:	447000
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 410-288300/13	0.2	0.044958	10.0	1542113.0	0.224789	Y
2	IC 410-288300/14	0.5	0.130455	10.0	1536465.0	0.260911	Y
3	IC 410-288300/15	1.0	0.245425	10.0	1510198.0	0.245425	Y
4	IC 410-288300/16	2.0	0.527566	10.0	1510978.0	0.263783	Y
5	IC 410-288300/17	5.0	1.307353	10.0	1523078.0	0.261471	Y
6	ICIS 410-288300/18	10.0	2.587899	10.0	1523479.0	0.25879	Y
7	IC 410-288300/19	25.0	6.462989	10.0	1542455.0	0.25852	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

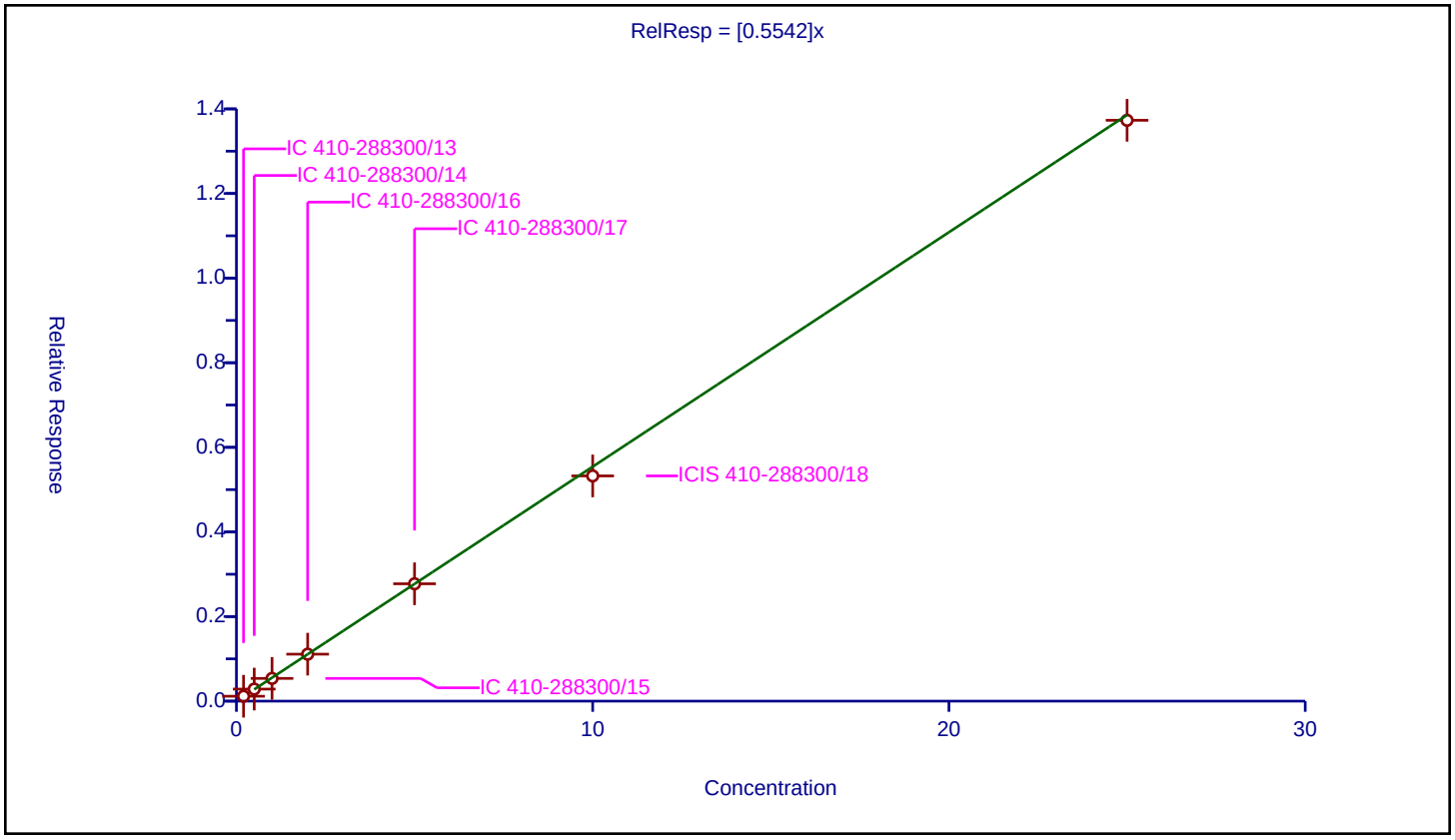
Curve Coefficients

Intercept:	0
Slope:	0.5542

Error Coefficients

Standard Error:	945000
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 410-288300/13	0.2	0.116113	10.0	1542113.0	0.580567	Y
2	IC 410-288300/14	0.5	0.285057	10.0	1536465.0	0.570114	Y
3	IC 410-288300/15	1.0	0.537327	10.0	1510198.0	0.537327	Y
4	IC 410-288300/16	2.0	1.110274	10.0	1510978.0	0.555137	Y
5	IC 410-288300/17	5.0	2.774008	10.0	1523078.0	0.554802	Y
6	ICIS 410-288300/18	10.0	5.324143	10.0	1523479.0	0.532414	Y
7	IC 410-288300/19	25.0	13.730229	10.0	1542455.0	0.549209	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

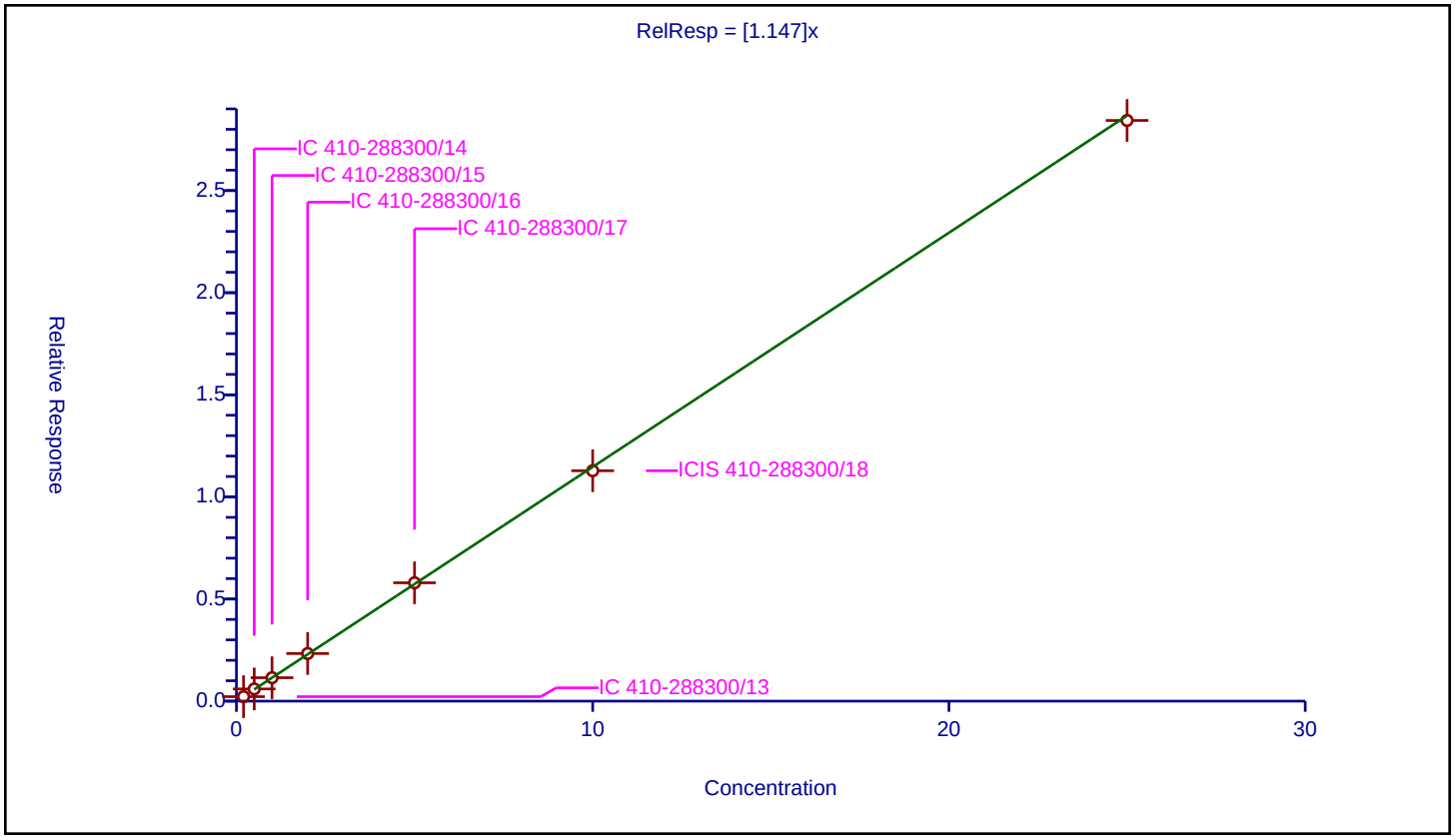
Curve Coefficients

Intercept:	0
Slope:	1.147

Error Coefficients

Standard Error:	1960000
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 410-288300/13	0.2	0.219575	10.0	1542113.0	1.097877	Y
2	IC 410-288300/14	0.5	0.596395	10.0	1536465.0	1.19279	Y
3	IC 410-288300/15	1.0	1.146823	10.0	1510198.0	1.146823	Y
4	IC 410-288300/16	2.0	2.331331	10.0	1510978.0	1.165666	Y
5	IC 410-288300/17	5.0	5.794917	10.0	1523078.0	1.158983	Y
6	ICIS 410-288300/18	10.0	11.281304	10.0	1523479.0	1.12813	Y
7	IC 410-288300/19	25.0	28.433601	10.0	1542455.0	1.137344	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

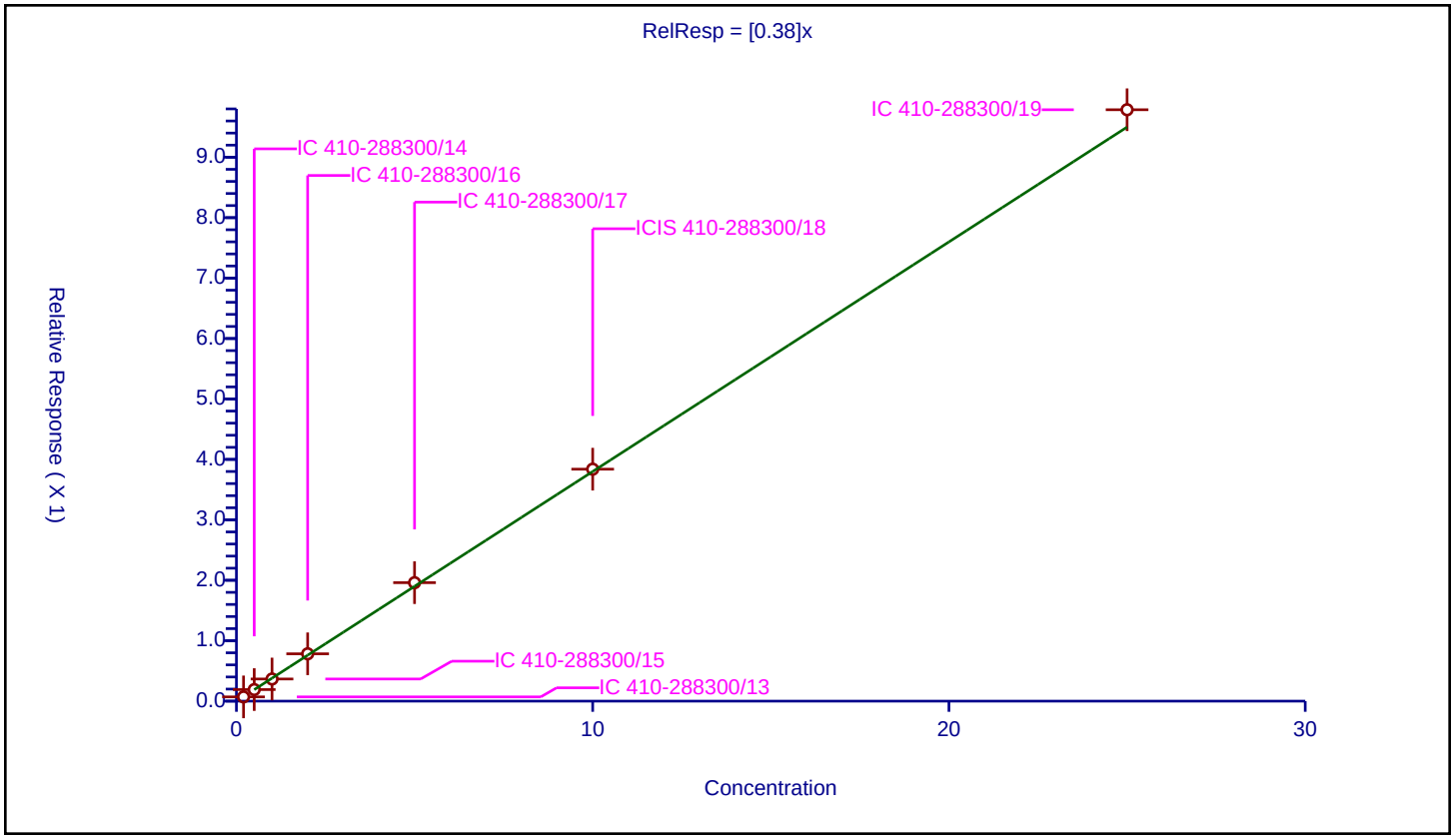
Curve Coefficients

Intercept:	0
Slope:	0.38

Error Coefficients

Standard Error:	674000
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 410-288300/13	0.2	0.070306	10.0	1542113.0	0.351531	Y
2	IC 410-288300/14	0.5	0.191426	10.0	1536465.0	0.382853	Y
3	IC 410-288300/15	1.0	0.366343	10.0	1510198.0	0.366343	Y
4	IC 410-288300/16	2.0	0.783188	10.0	1510978.0	0.391594	Y
5	IC 410-288300/17	5.0	1.960307	10.0	1523078.0	0.392061	Y
6	ICIS 410-288300/18	10.0	3.838563	10.0	1523479.0	0.383856	Y
7	IC 410-288300/19	25.0	9.78601	10.0	1542455.0	0.39144	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

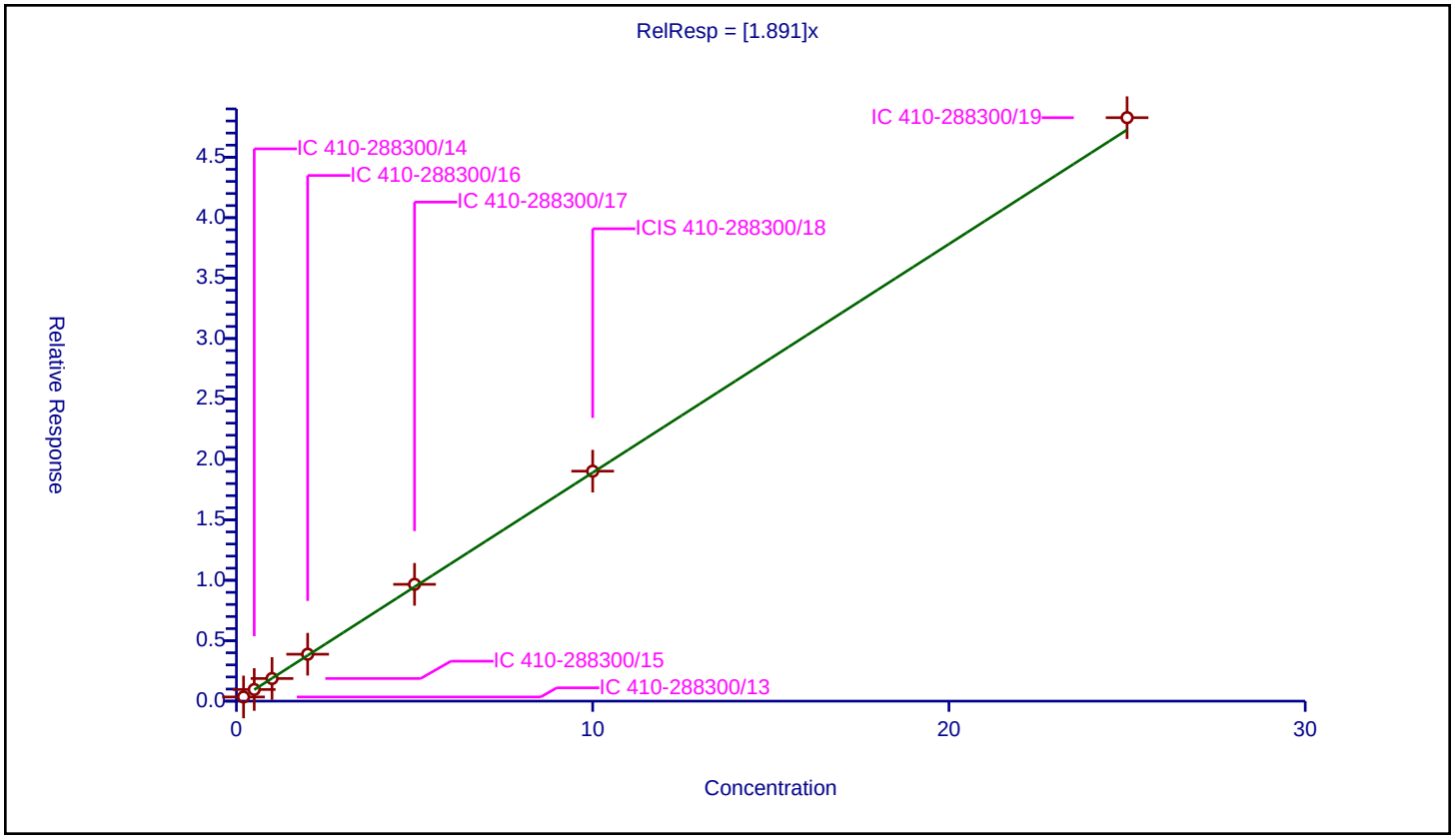
Curve Coefficients

Intercept:	0
Slope:	1.891

Error Coefficients

Standard Error:	3330000
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 410-288300/13	0.2	0.345545	10.0	1542113.0	1.727727	Y
2	IC 410-288300/14	0.5	0.964806	10.0	1536465.0	1.929611	Y
3	IC 410-288300/15	1.0	1.871145	10.0	1510198.0	1.871145	Y
4	IC 410-288300/16	2.0	3.882426	10.0	1510978.0	1.941213	Y
5	IC 410-288300/17	5.0	9.66416	10.0	1523078.0	1.932832	Y
6	ICIS 410-288300/18	10.0	19.026879	10.0	1523479.0	1.902688	Y
7	IC 410-288300/19	25.0	48.27265	10.0	1542455.0	1.930906	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

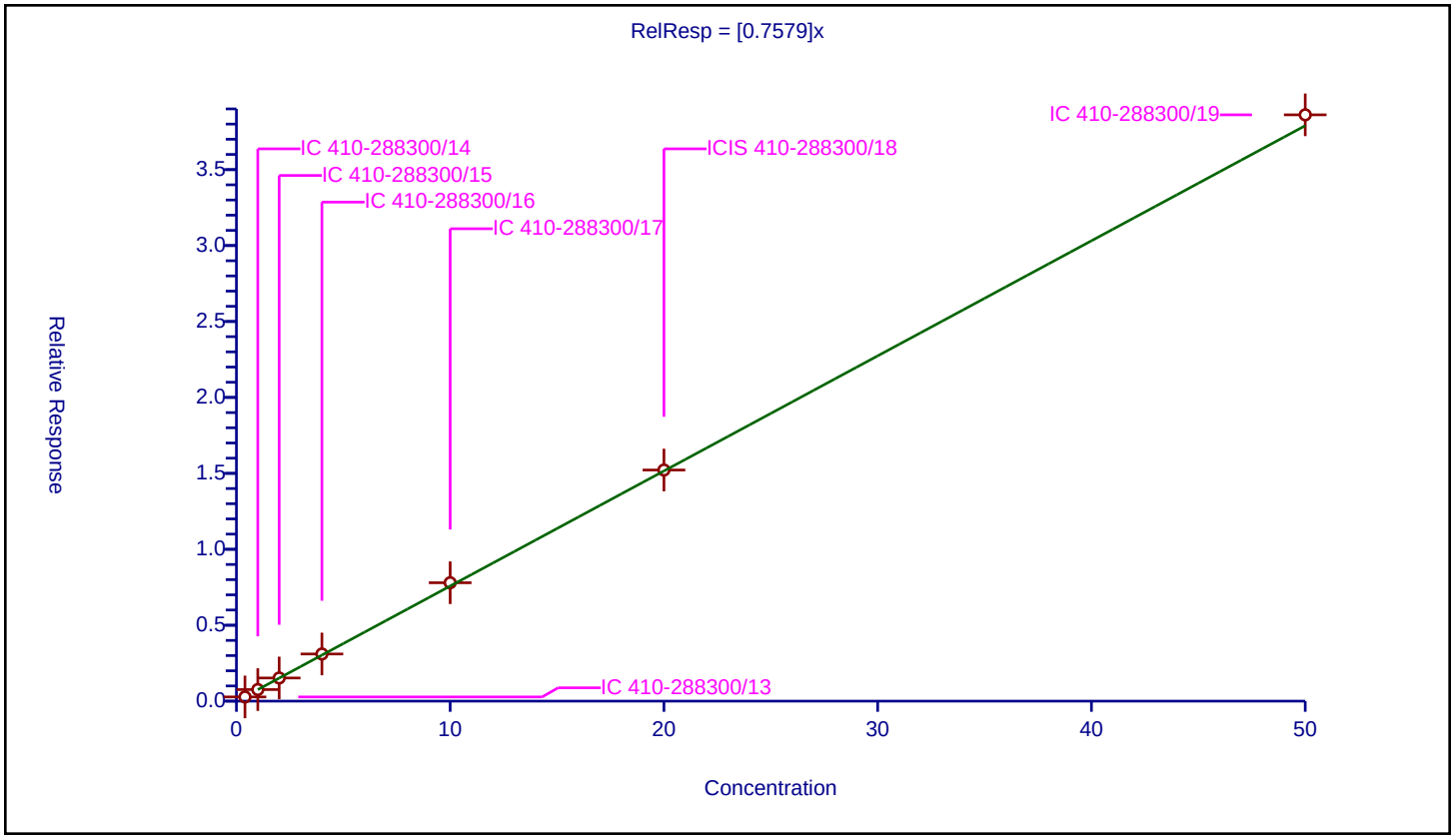
Curve Coefficients

Intercept:	0
Slope:	0.7579

Error Coefficients

Standard Error:	2660000
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 410-288300/13	0.4	0.27618	10.0	1542113.0	0.690449	Y
2	IC 410-288300/14	1.0	0.76277	10.0	1536465.0	0.76277	Y
3	IC 410-288300/15	2.0	1.525363	10.0	1510198.0	0.762681	Y
4	IC 410-288300/16	4.0	3.105386	10.0	1510978.0	0.776347	Y
5	IC 410-288300/17	10.0	7.796364	10.0	1523078.0	0.779636	Y
6	ICIS 410-288300/18	20.0	15.22	10.0	1523479.0	0.761	Y
7	IC 410-288300/19	50.0	38.609658	10.0	1542455.0	0.772193	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

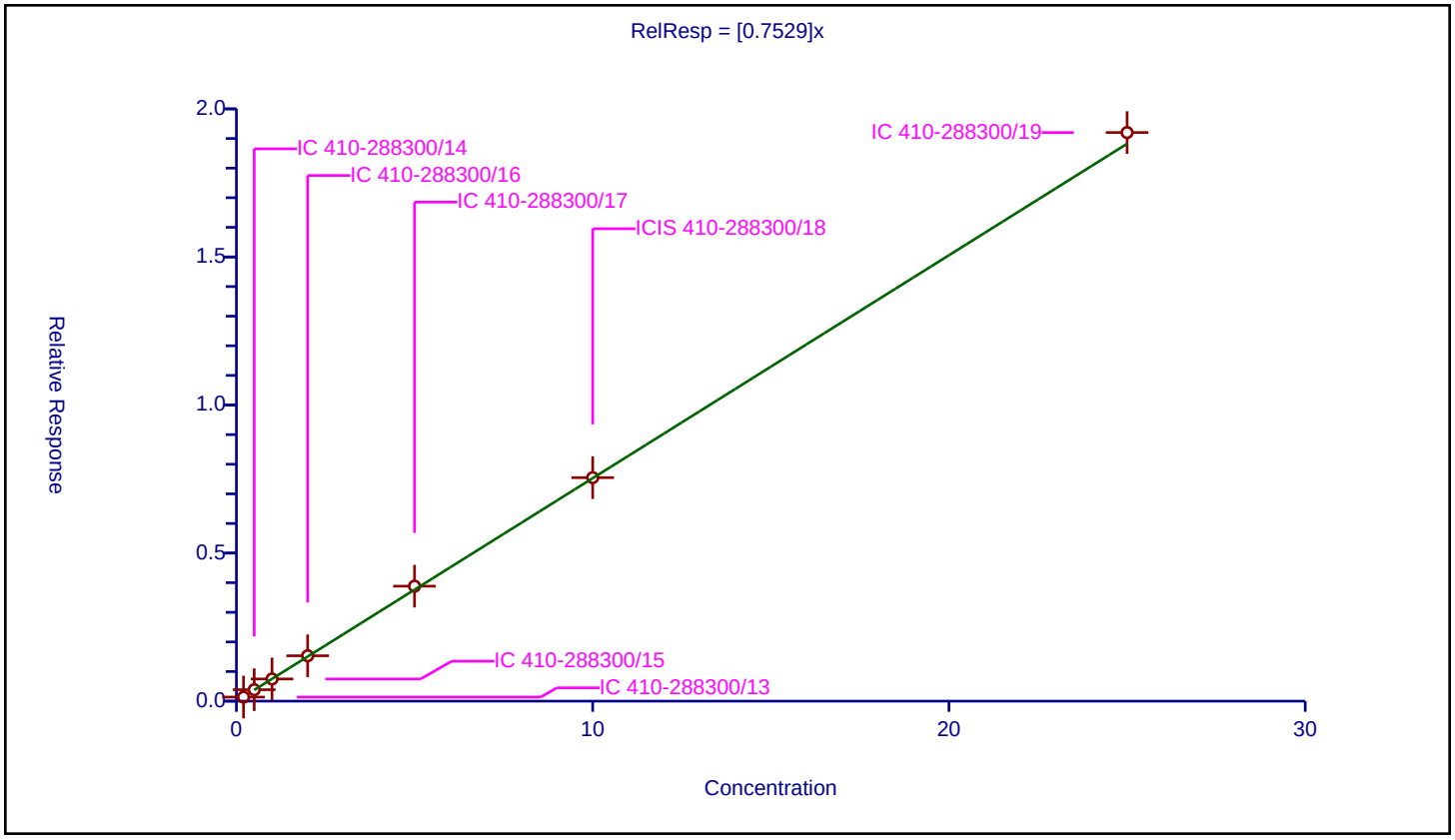
Curve Coefficients

Intercept:	0
Slope:	0.7529

Error Coefficients

Standard Error:	1320000
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 410-288300/13	0.2	0.136935	10.0	1542113.0	0.684677	Y
2	IC 410-288300/14	0.5	0.385899	10.0	1536465.0	0.771798	Y
3	IC 410-288300/15	1.0	0.748452	10.0	1510198.0	0.748452	Y
4	IC 410-288300/16	2.0	1.53216	10.0	1510978.0	0.76608	Y
5	IC 410-288300/17	5.0	3.881975	10.0	1523078.0	0.776395	Y
6	ICIS 410-288300/18	10.0	7.547042	10.0	1523479.0	0.754704	Y
7	IC 410-288300/19	25.0	19.201202	10.0	1542455.0	0.768048	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

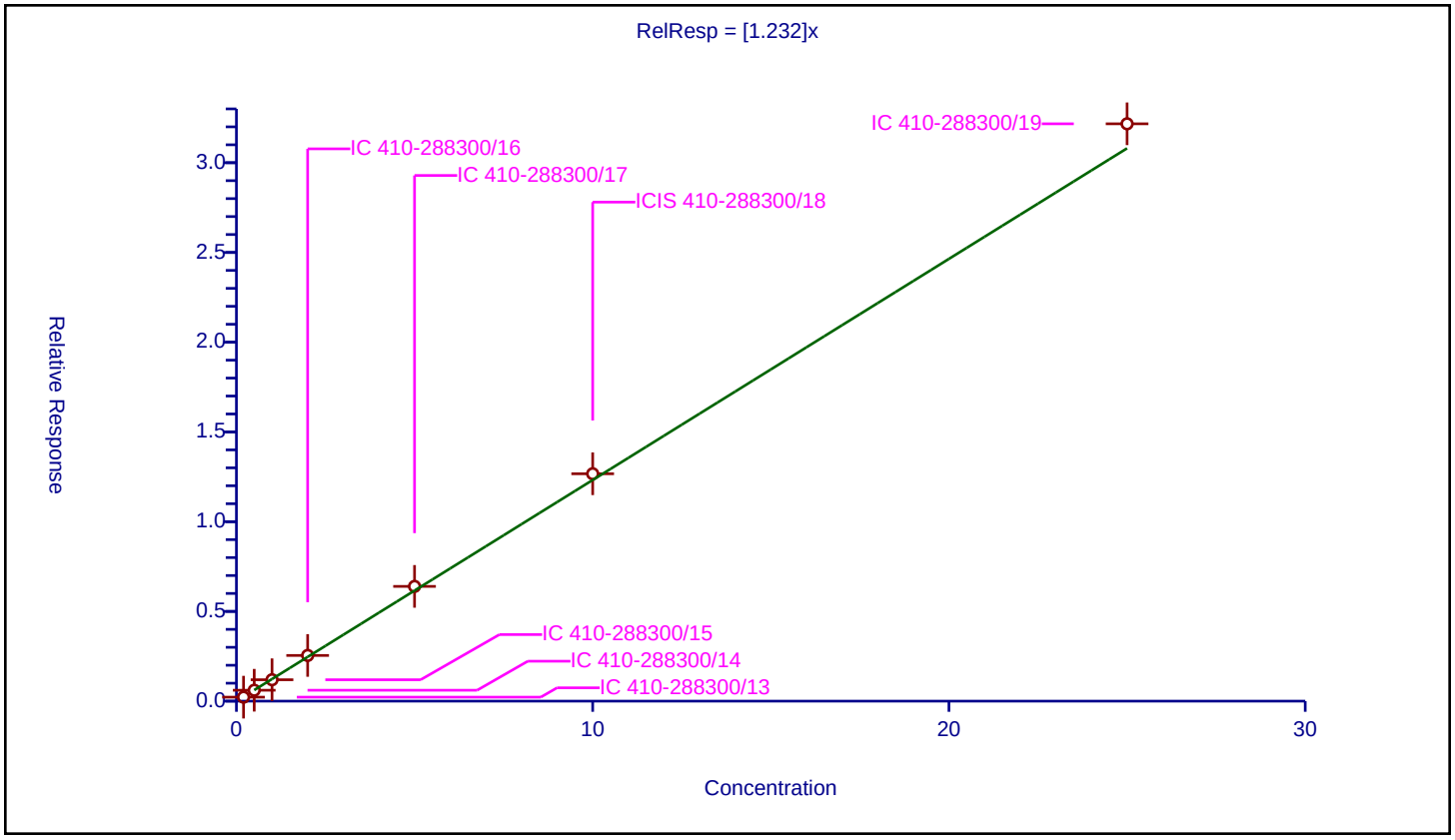
Curve Coefficients

Intercept:	0
Slope:	1.232

Error Coefficients

Standard Error:	2220000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.222532	10.0	1542113.0	1.112662	Y
2	IC 410-288300/14	0.5	0.607179	10.0	1536465.0	1.214359	Y
3	IC 410-288300/15	1.0	1.192665	10.0	1510198.0	1.192665	Y
4	IC 410-288300/16	2.0	2.54557	10.0	1510978.0	1.272785	Y
5	IC 410-288300/17	5.0	6.393533	10.0	1523078.0	1.278707	Y
6	ICIS 410-288300/18	10.0	12.66962	10.0	1523479.0	1.266962	Y
7	IC 410-288300/19	25.0	32.169483	10.0	1542455.0	1.286779	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

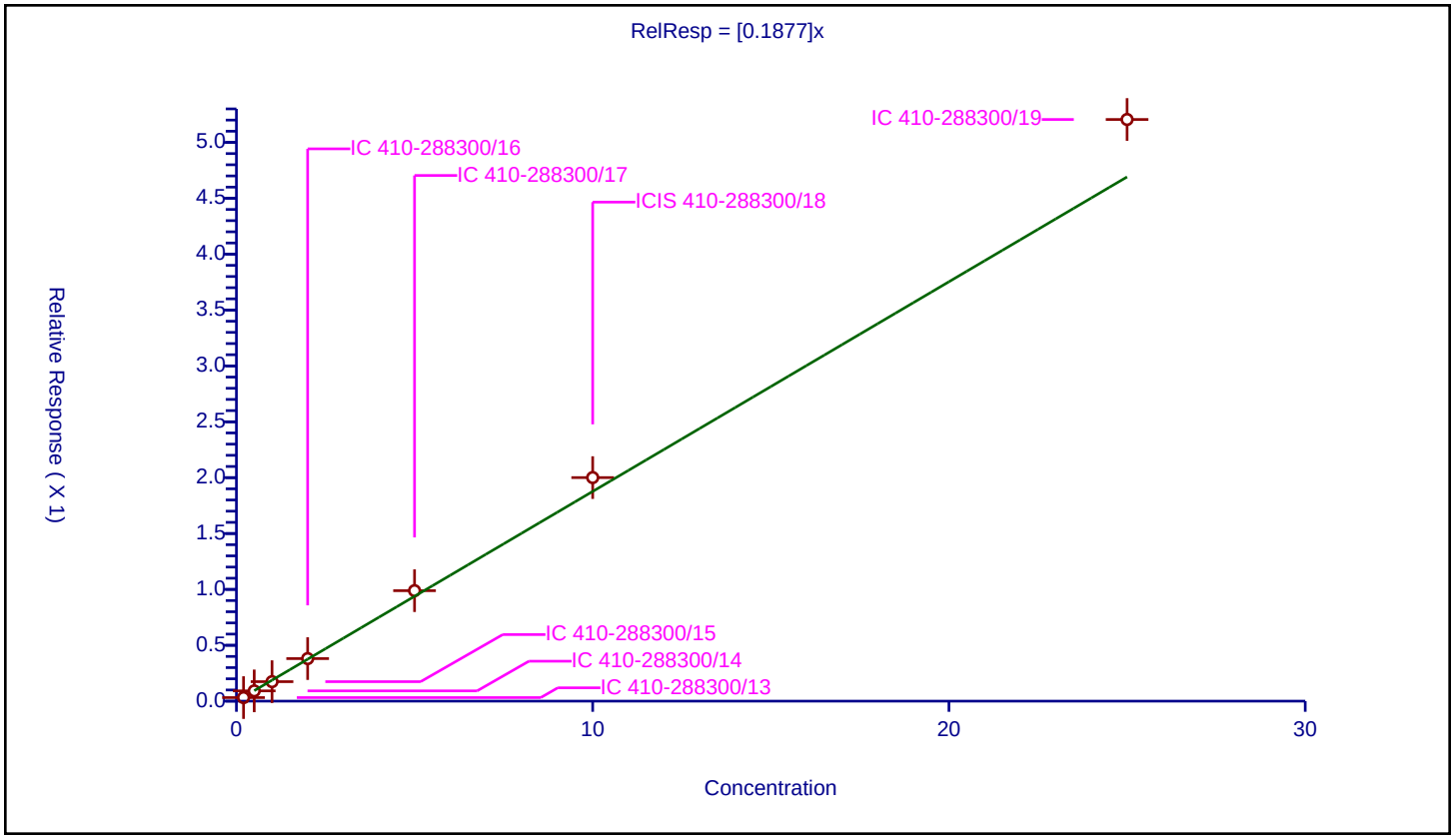
Curve Coefficients

Intercept:	0
Slope:	0.1877

Error Coefficients

Standard Error:	357000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.031846	10.0	1542113.0	0.15923	Y
2	IC 410-288300/14	0.5	0.09186	10.0	1536465.0	0.18372	Y
3	IC 410-288300/15	1.0	0.174322	10.0	1510198.0	0.174322	Y
4	IC 410-288300/16	2.0	0.380661	10.0	1510978.0	0.19033	Y
5	IC 410-288300/17	5.0	0.988636	10.0	1523078.0	0.197727	Y
6	ICIS 410-288300/18	10.0	2.0005	10.0	1523479.0	0.20005	Y
7	IC 410-288300/19	25.0	5.205092	10.0	1542455.0	0.208204	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

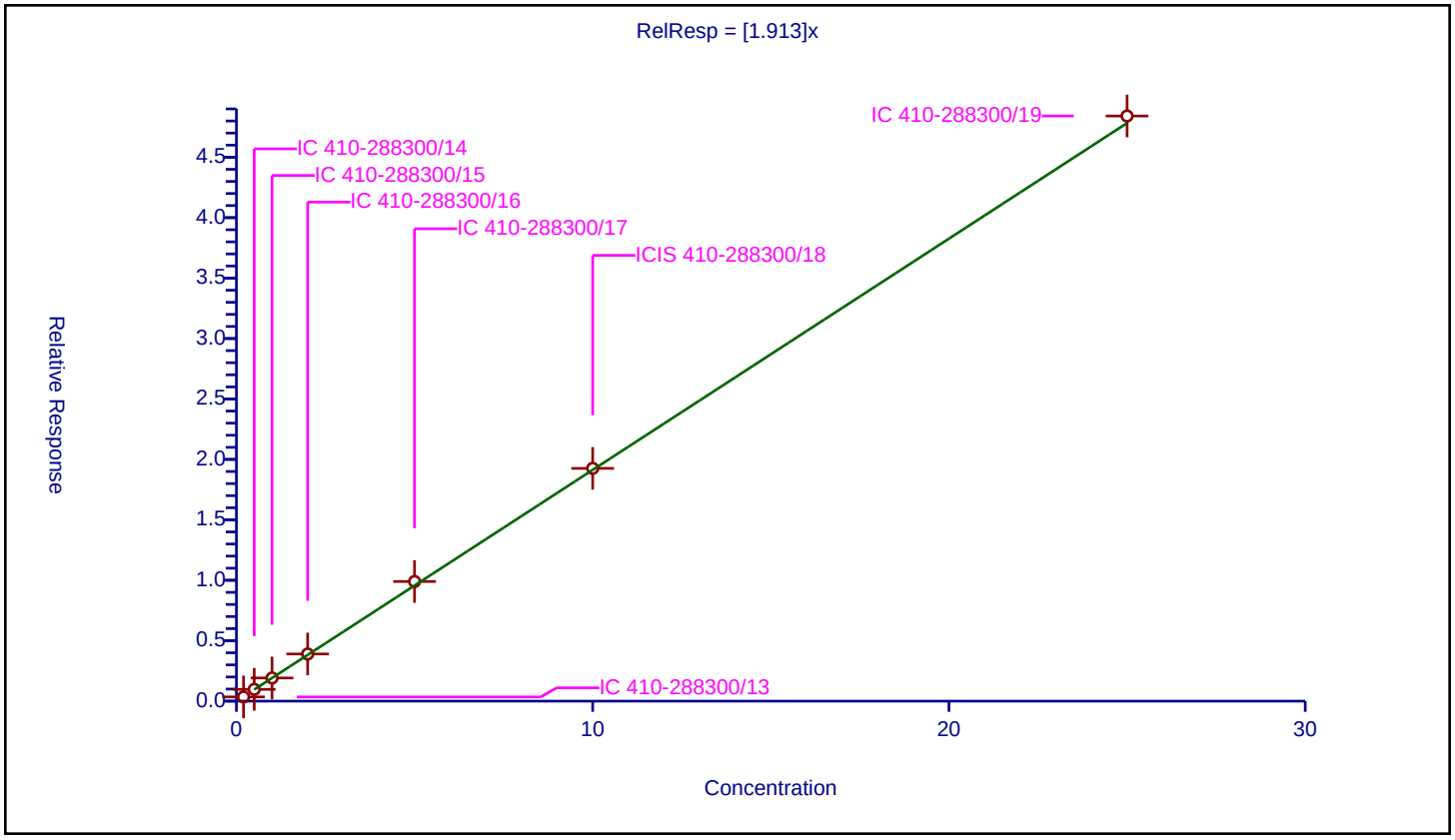
Curve Coefficients

Intercept:	0
Slope:	1.913

Error Coefficients

Standard Error:	3340000
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 410-288300/13	0.2	0.346116	10.0	1542113.0	1.73058	Y
2	IC 410-288300/14	0.5	0.975961	10.0	1536465.0	1.951922	Y
3	IC 410-288300/15	1.0	1.916226	10.0	1510198.0	1.916226	Y
4	IC 410-288300/16	2.0	3.902327	10.0	1510978.0	1.951163	Y
5	IC 410-288300/17	5.0	9.899598	10.0	1523078.0	1.97992	Y
6	ICIS 410-288300/18	10.0	19.258789	10.0	1523479.0	1.925879	Y
7	IC 410-288300/19	25.0	48.411429	10.0	1542455.0	1.936457	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

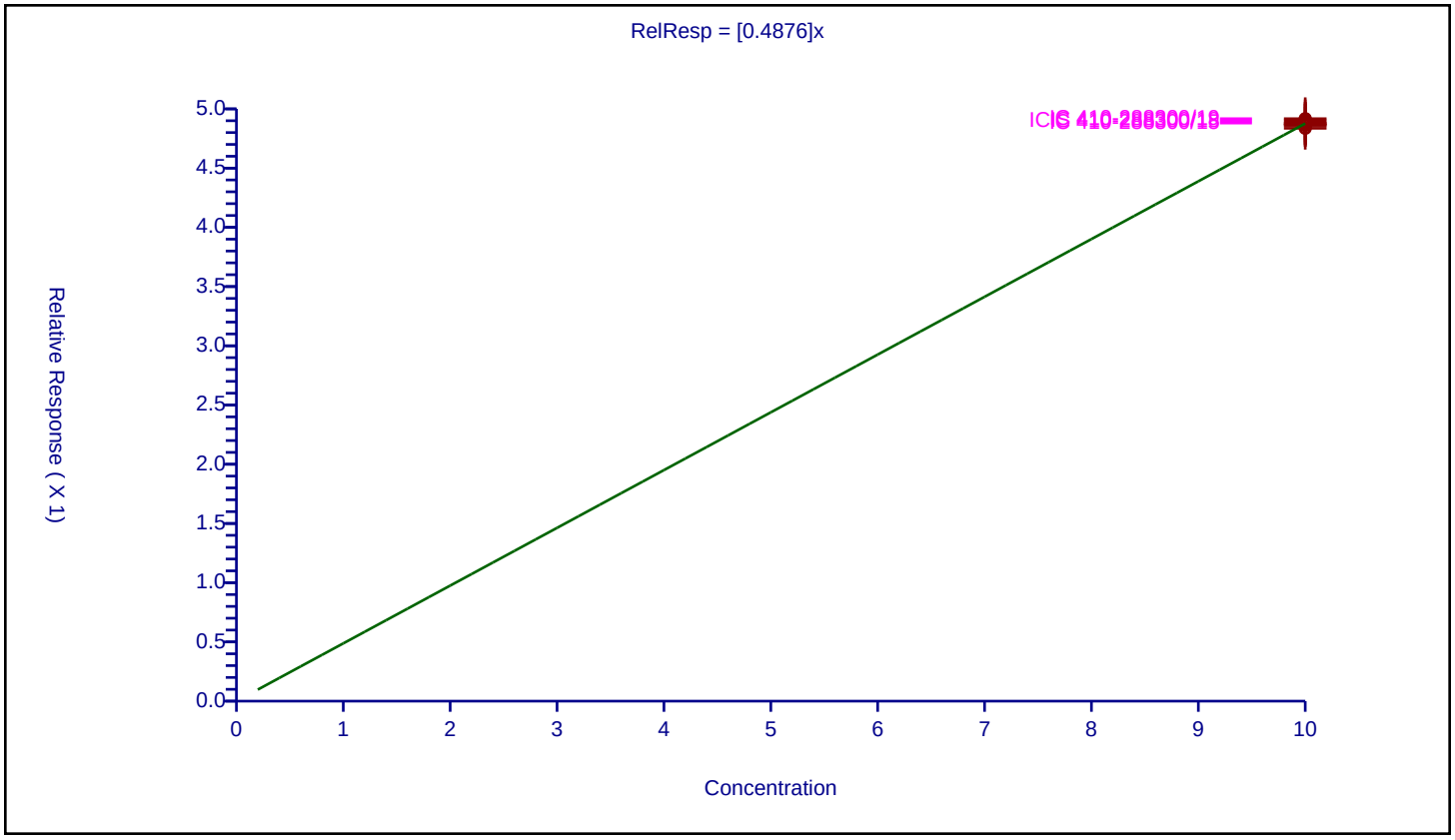
Curve Coefficients

Intercept:	0
Slope:	0.4876

Error Coefficients

Standard Error:	804000
Relative Standard Error:	0.5
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	10.0	4.860202	10.0	1542113.0	0.48602	Y
2	IC 410-288300/14	10.0	4.836251	10.0	1536465.0	0.483625	Y
3	IC 410-288300/15	10.0	4.880334	10.0	1510198.0	0.488033	Y
4	IC 410-288300/16	10.0	4.864565	10.0	1510978.0	0.486456	Y
5	IC 410-288300/17	10.0	4.876224	10.0	1523078.0	0.487622	Y
6	ICIS 410-288300/18	10.0	4.899017	10.0	1523479.0	0.489902	Y
7	IC 410-288300/19	10.0	4.917187	10.0	1542455.0	0.491719	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

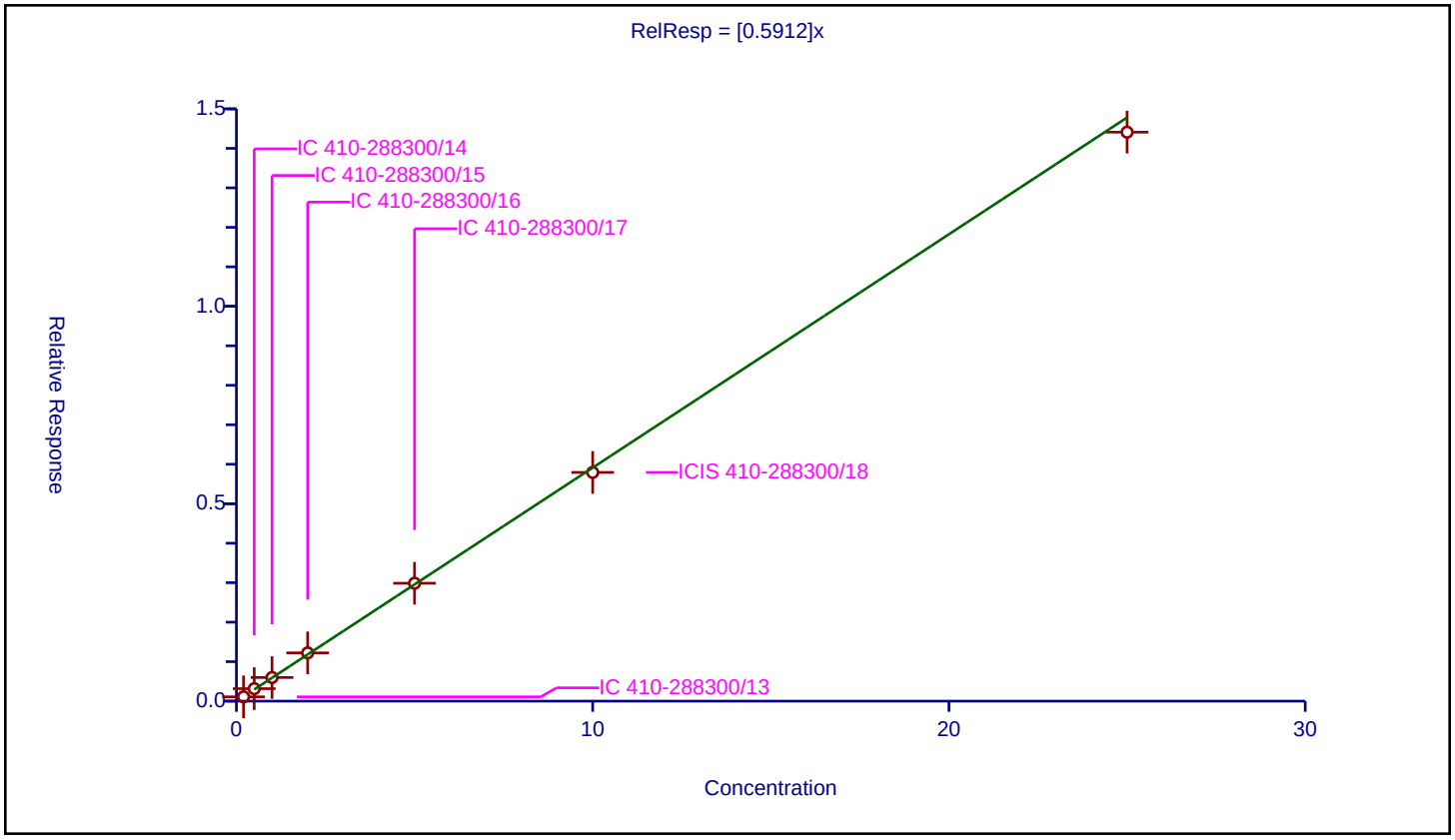
Curve Coefficients

Intercept:	0
Slope:	0.5912

Error Coefficients

Standard Error:	597000
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 410-288300/13	0.2	0.10881	10.0	881628.0	0.54405	Y
2	IC 410-288300/14	0.5	0.315918	10.0	871682.0	0.631836	Y
3	IC 410-288300/15	1.0	0.598962	10.0	860455.0	0.598962	Y
4	IC 410-288300/16	2.0	1.221822	10.0	872795.0	0.610911	Y
5	IC 410-288300/17	5.0	2.985761	10.0	886836.0	0.597152	Y
6	ICIS 410-288300/18	10.0	5.792545	10.0	900908.0	0.579254	Y
7	IC 410-288300/19	25.0	14.410555	10.0	926990.0	0.576422	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

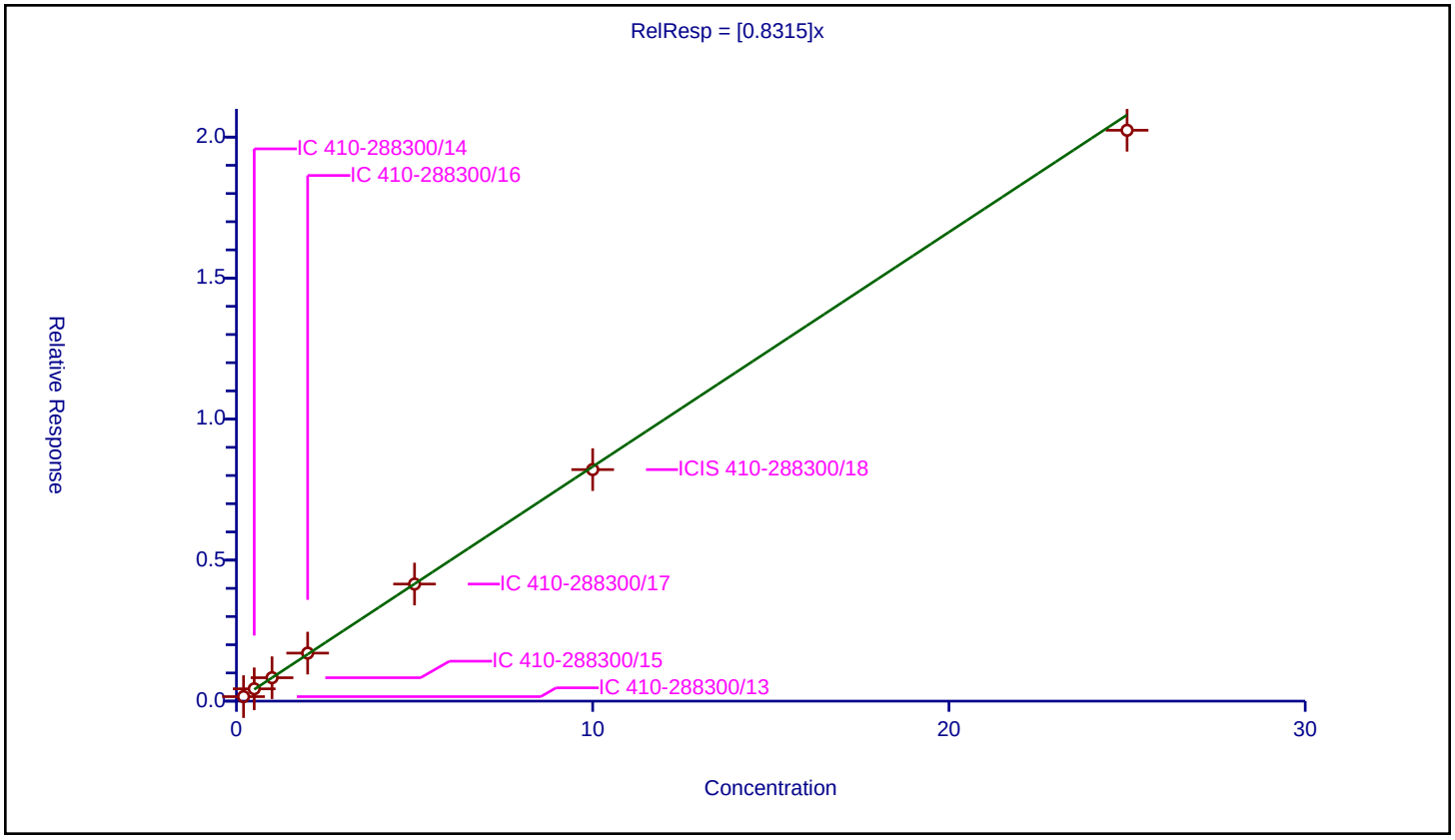
Curve Coefficients

Intercept:	0
Slope:	0.8315

Error Coefficients

Standard Error:	840000
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 410-288300/13	0.2	0.160533	10.0	881628.0	0.802663	Y
2	IC 410-288300/14	0.5	0.437086	10.0	871682.0	0.874172	Y
3	IC 410-288300/15	1.0	0.830874	10.0	860455.0	0.830874	Y
4	IC 410-288300/16	2.0	1.703241	10.0	872795.0	0.85162	Y
5	IC 410-288300/17	5.0	4.152425	10.0	886836.0	0.830485	Y
6	ICIS 410-288300/18	10.0	8.21015	10.0	900908.0	0.821015	Y
7	IC 410-288300/19	25.0	20.242128	10.0	926990.0	0.809685	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

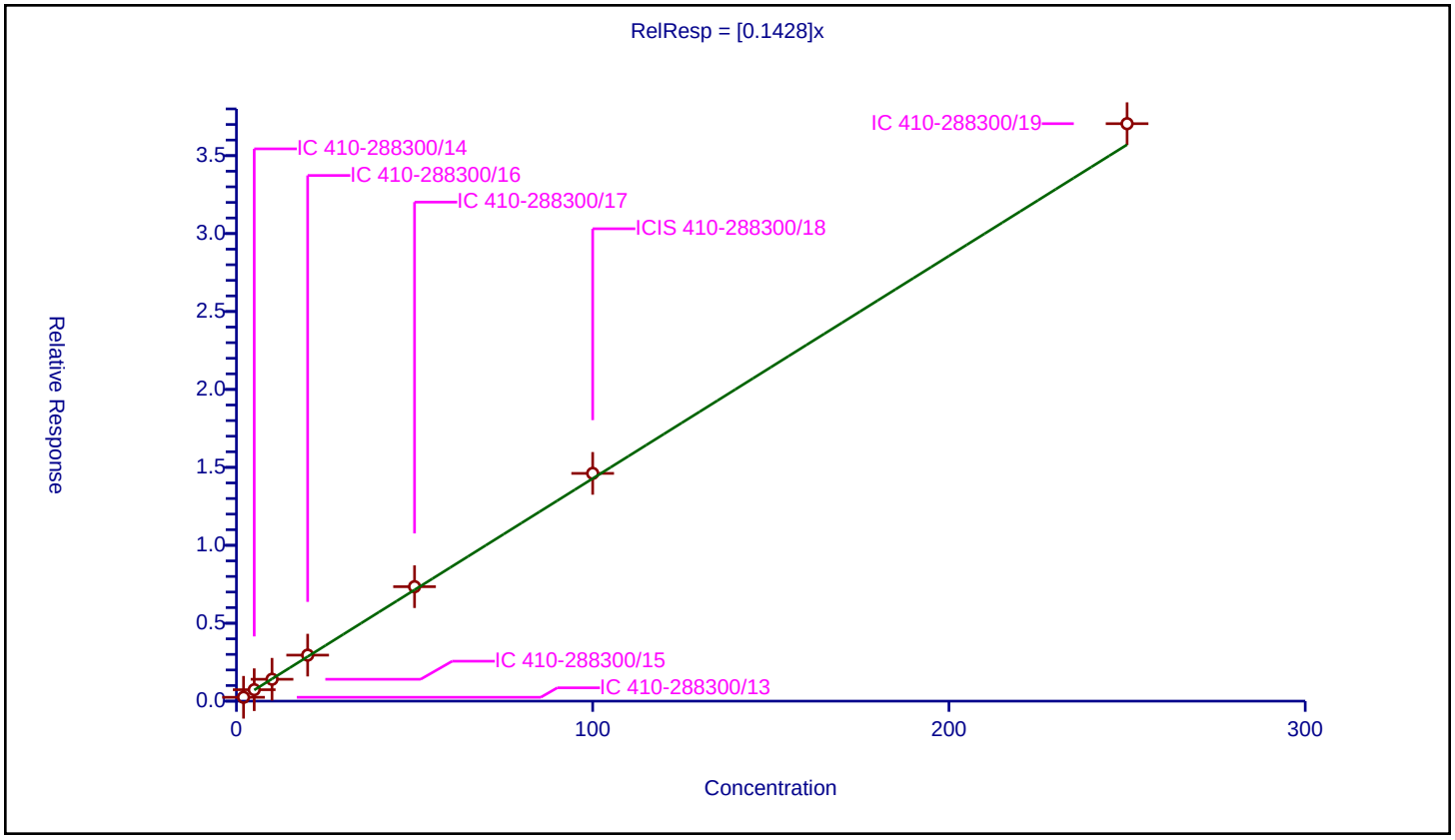
Curve Coefficients

Intercept:	0
Slope:	0.1428

Error Coefficients

Standard Error:	1530000
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 410-288300/13	2.0	0.247361	10.0	881628.0	0.12368	Y
2	IC 410-288300/14	5.0	0.733857	10.0	871682.0	0.146771	Y
3	IC 410-288300/15	10.0	1.404292	10.0	860455.0	0.140429	Y
4	IC 410-288300/16	20.0	2.952824	10.0	872795.0	0.147641	Y
5	IC 410-288300/17	50.0	7.344537	10.0	886836.0	0.146891	Y
6	ICIS 410-288300/18	100.0	14.6145	10.0	900908.0	0.146145	Y
7	IC 410-288300/19	250.0	37.051015	10.0	926990.0	0.148204	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

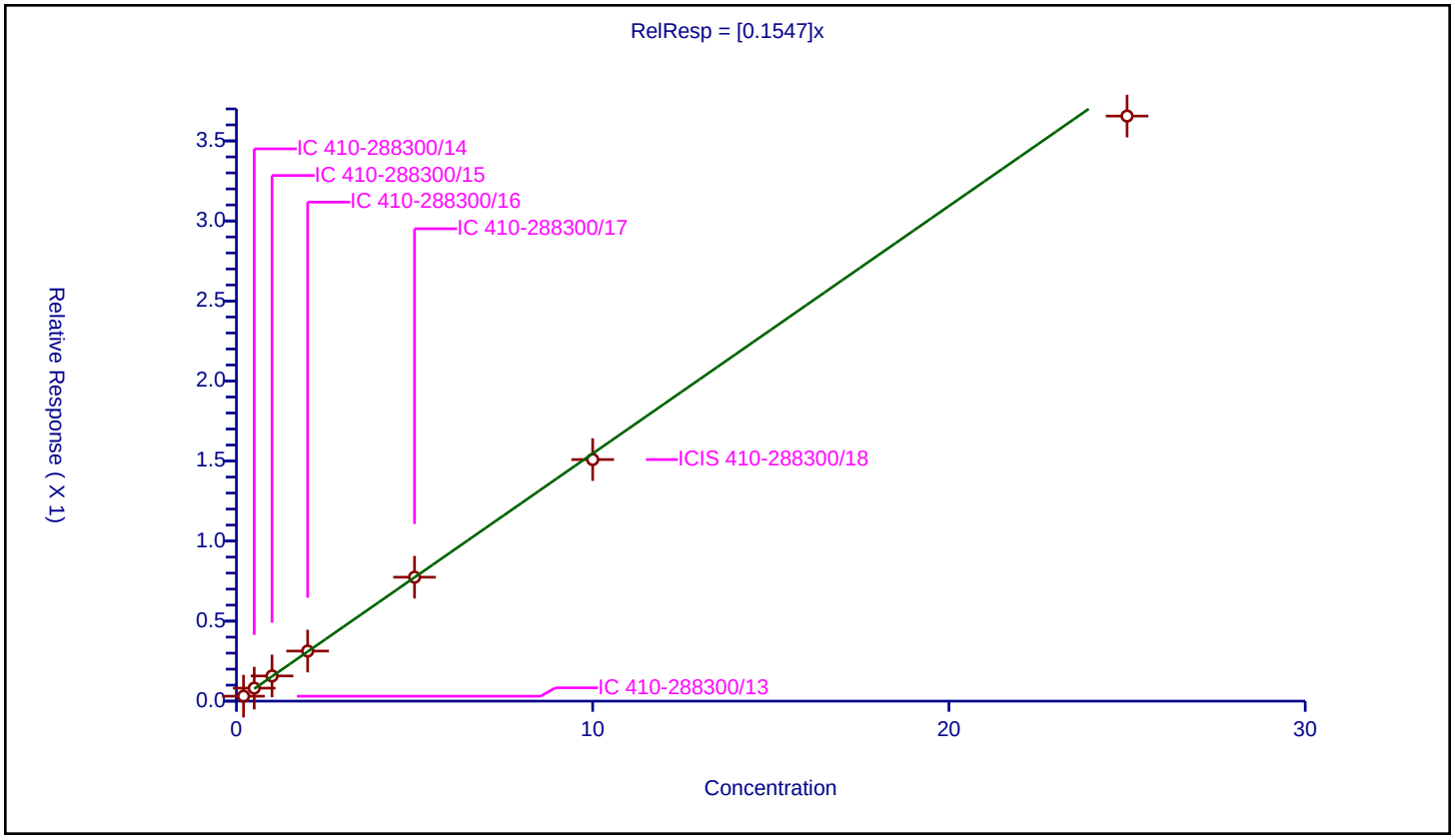
Curve Coefficients

Intercept:	0
Slope:	0.1547

Error Coefficients

Standard Error:	152000
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 410-288300/13	0.2	0.030852	10.0	881628.0	0.15426	Y
2	IC 410-288300/14	0.5	0.081257	10.0	871682.0	0.162513	Y
3	IC 410-288300/15	1.0	0.157324	10.0	860455.0	0.157324	Y
4	IC 410-288300/16	2.0	0.312983	10.0	872795.0	0.156492	Y
5	IC 410-288300/17	5.0	0.774258	10.0	886836.0	0.154852	Y
6	ICIS 410-288300/18	10.0	1.509344	10.0	900908.0	0.150934	Y
7	IC 410-288300/19	25.0	3.655174	10.0	926990.0	0.146207	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

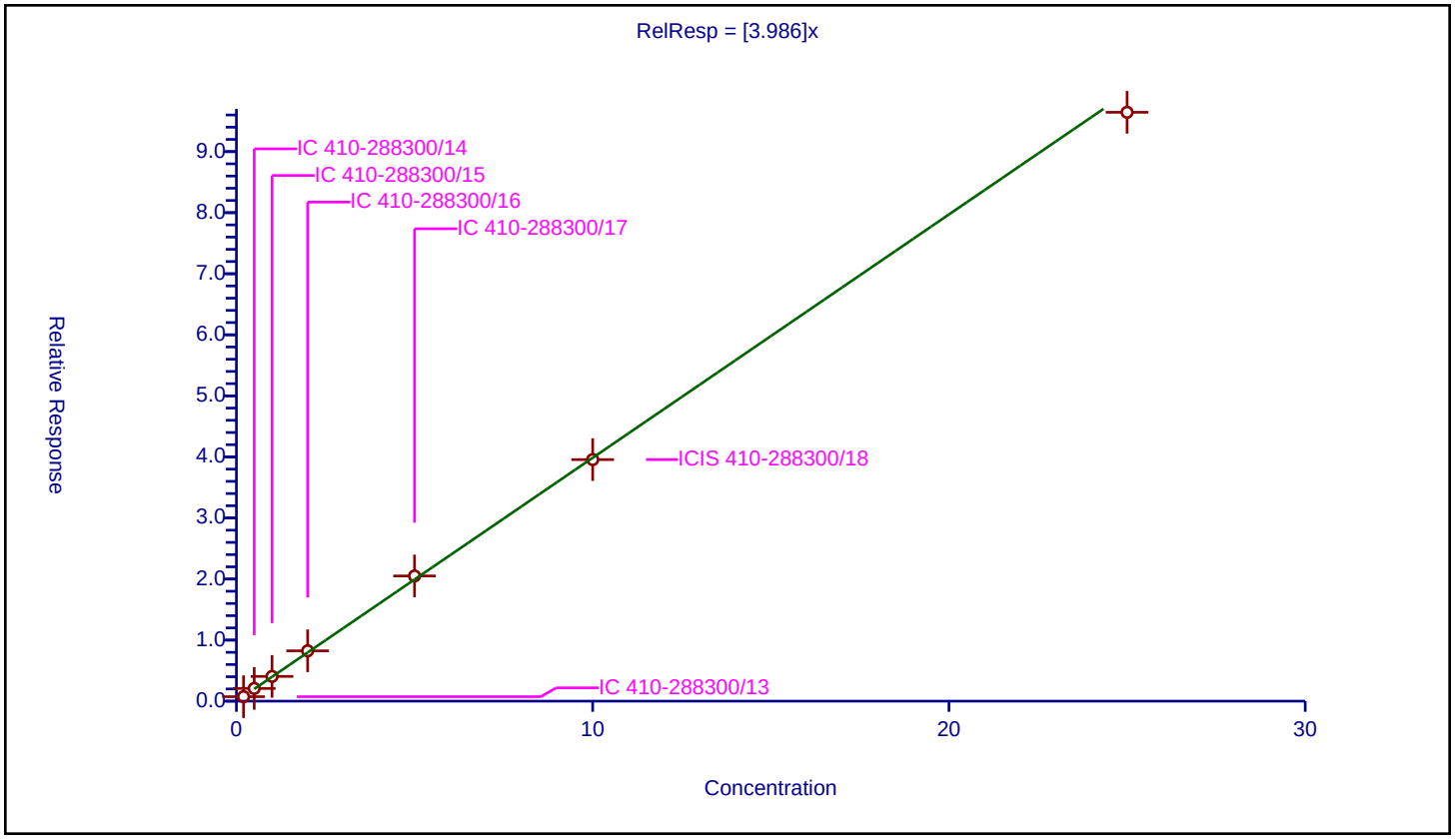
Curve Coefficients

Intercept:	0
Slope:	3.986

Error Coefficients

Standard Error:	4010000
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 410-288300/13	0.2	0.729911	10.0	881628.0	3.649555	Y
2	IC 410-288300/14	0.5	2.081688	10.0	871682.0	4.163376	Y
3	IC 410-288300/15	1.0	4.051566	10.0	860455.0	4.051566	Y
4	IC 410-288300/16	2.0	8.240366	10.0	872795.0	4.120183	Y
5	IC 410-288300/17	5.0	20.502641	10.0	886836.0	4.100528	Y
6	ICIS 410-288300/18	10.0	39.559777	10.0	900908.0	3.955978	Y
7	IC 410-288300/19	25.0	96.443629	10.0	926990.0	3.857745	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

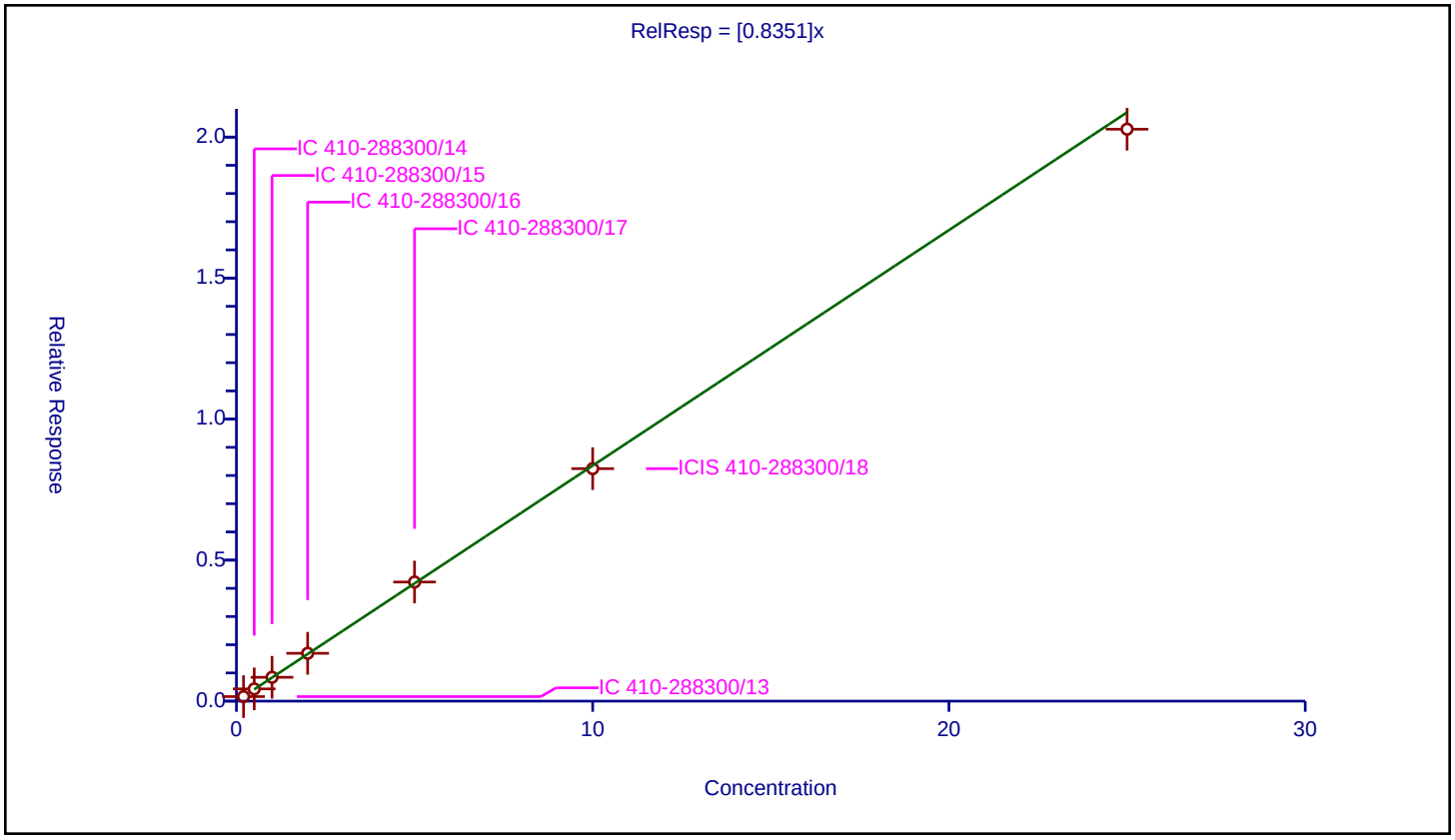
Curve Coefficients

Intercept:	0
Slope:	0.8351

Error Coefficients

Standard Error:	842000
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 410-288300/13	0.2	0.160737	10.0	881628.0	0.803684	Y
2	IC 410-288300/14	0.5	0.433472	10.0	871682.0	0.866945	Y
3	IC 410-288300/15	1.0	0.845994	10.0	860455.0	0.845994	Y
4	IC 410-288300/16	2.0	1.696985	10.0	872795.0	0.848492	Y
5	IC 410-288300/17	5.0	4.223926	10.0	886836.0	0.844785	Y
6	ICIS 410-288300/18	10.0	8.243761	10.0	900908.0	0.824376	Y
7	IC 410-288300/19	25.0	20.28065	10.0	926990.0	0.811226	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

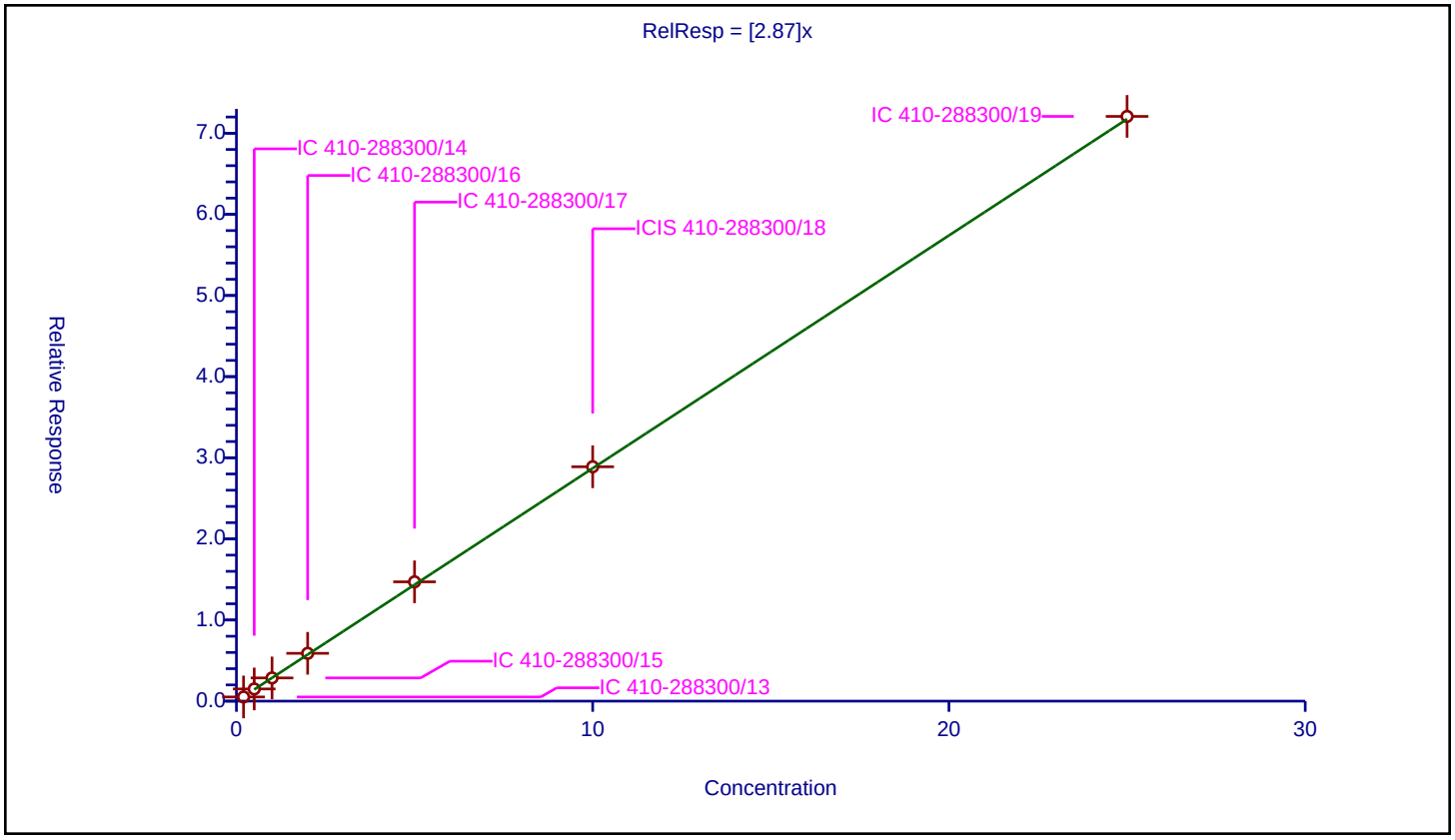
Curve Coefficients

Intercept:	0
Slope:	2.87

Error Coefficients

Standard Error:	2980000
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 410-288300/13	0.2	0.513187	10.0	881628.0	2.565935	Y
2	IC 410-288300/14	0.5	1.501018	10.0	871682.0	3.002035	Y
3	IC 410-288300/15	1.0	2.861928	10.0	860455.0	2.861928	Y
4	IC 410-288300/16	2.0	5.893515	10.0	872795.0	2.946757	Y
5	IC 410-288300/17	5.0	14.705605	10.0	886836.0	2.941121	Y
6	ICIS 410-288300/18	10.0	28.889387	10.0	900908.0	2.888939	Y
7	IC 410-288300/19	25.0	72.073431	10.0	926990.0	2.882937	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

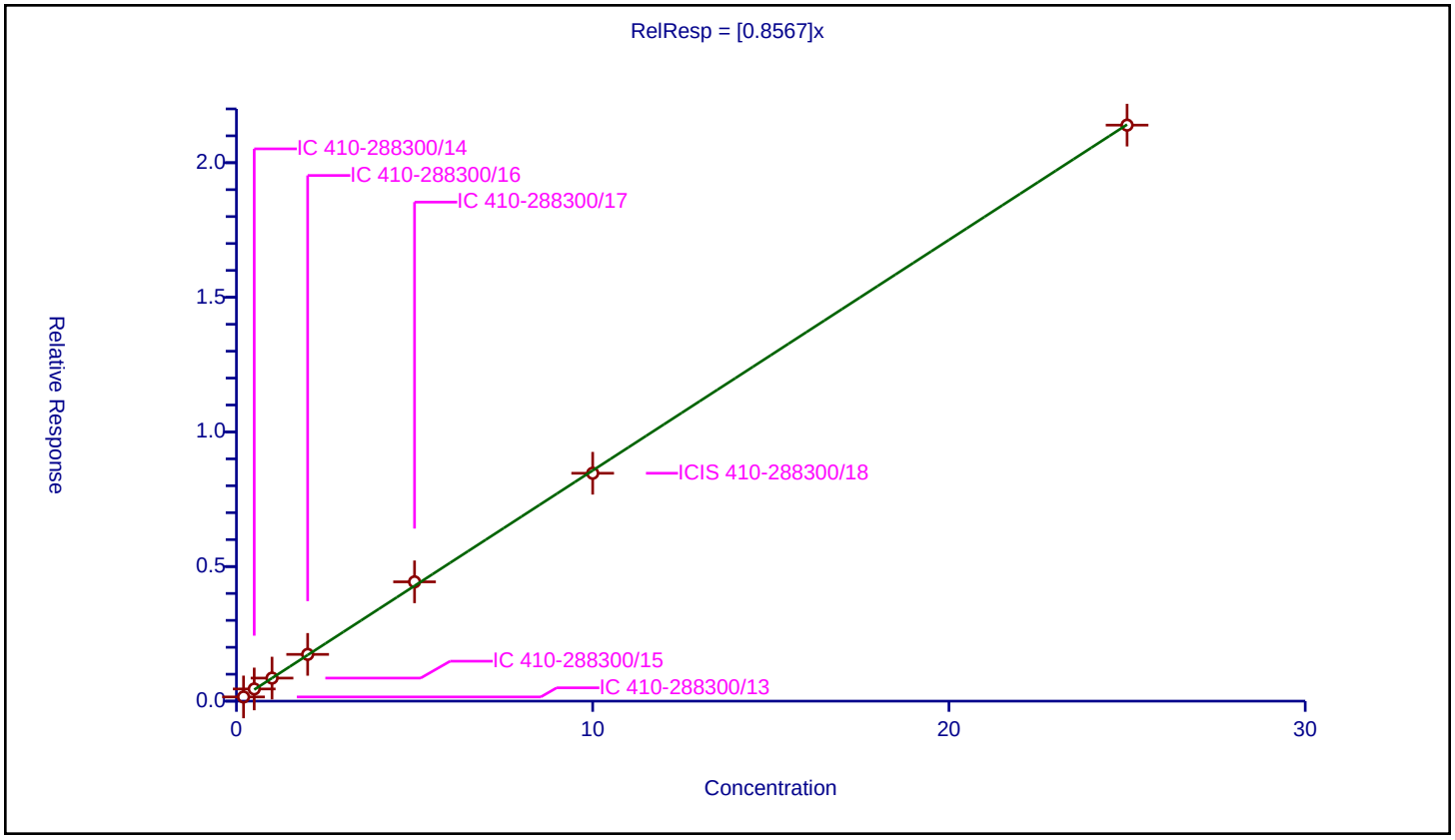
Curve Coefficients

Intercept:	0
Slope:	0.8567

Error Coefficients

Standard Error:	885000
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 410-288300/13	0.2	0.155757	10.0	881628.0	0.778787	Y
2	IC 410-288300/14	0.5	0.452527	10.0	871682.0	0.905055	Y
3	IC 410-288300/15	1.0	0.856256	10.0	860455.0	0.856256	Y
4	IC 410-288300/16	2.0	1.736353	10.0	872795.0	0.868176	Y
5	IC 410-288300/17	5.0	4.431439	10.0	886836.0	0.886288	Y
6	ICIS 410-288300/18	10.0	8.465537	10.0	900908.0	0.846554	Y
7	IC 410-288300/19	25.0	21.397383	10.0	926990.0	0.855895	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

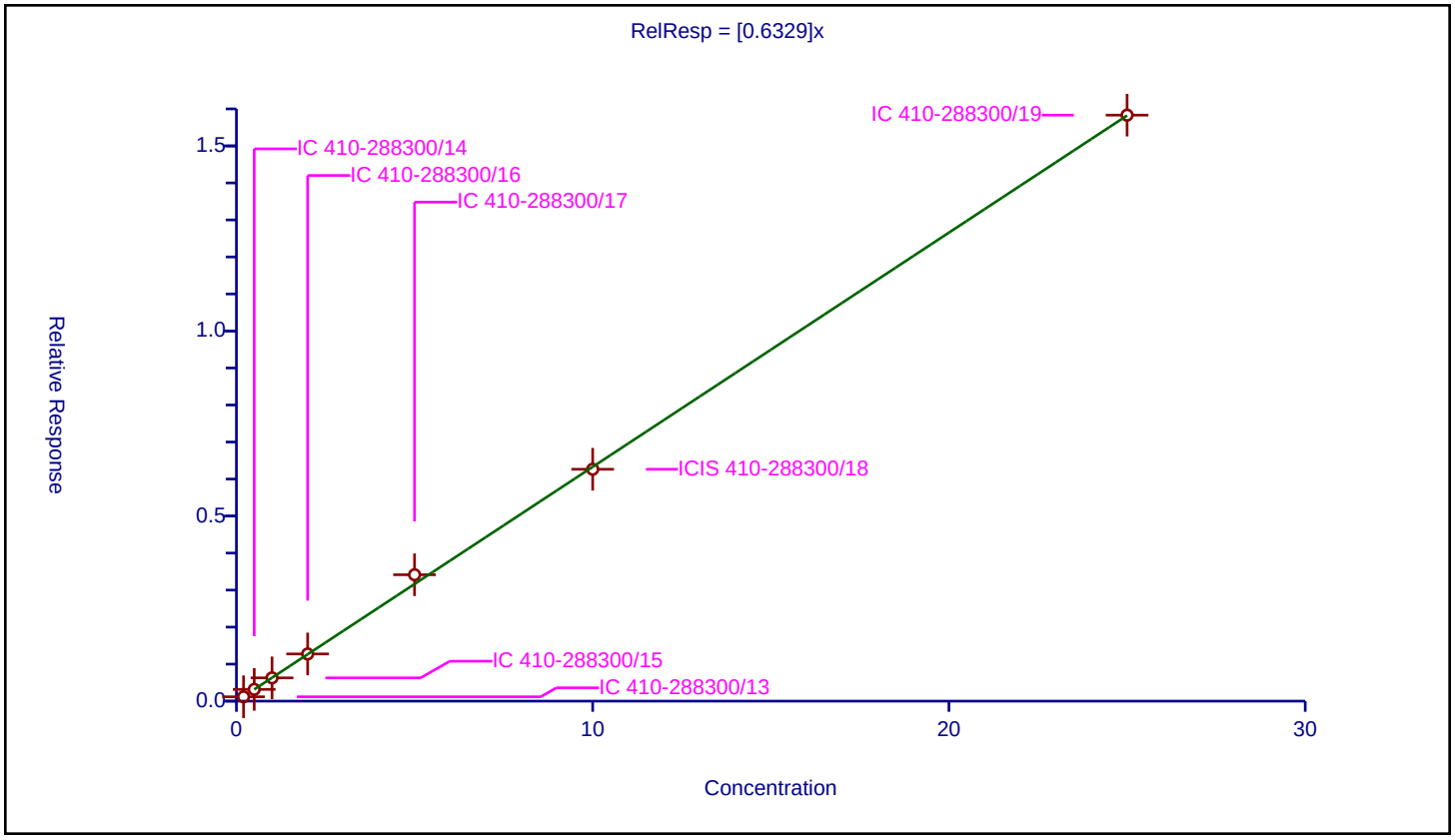
Curve Coefficients

Intercept:	0
Slope:	0.6329

Error Coefficients

Standard Error:	656000
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 410-288300/13	0.2	0.117294	10.0	881628.0	0.586472	Y
2	IC 410-288300/14	0.5	0.31749	10.0	871682.0	0.634979	Y
3	IC 410-288300/15	1.0	0.628551	10.0	860455.0	0.628551	Y
4	IC 410-288300/16	2.0	1.274767	10.0	872795.0	0.637383	Y
5	IC 410-288300/17	5.0	3.414904	10.0	886836.0	0.682981	Y
6	ICIS 410-288300/18	10.0	6.264558	10.0	900908.0	0.626456	Y
7	IC 410-288300/19	25.0	15.831649	10.0	926990.0	0.633266	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

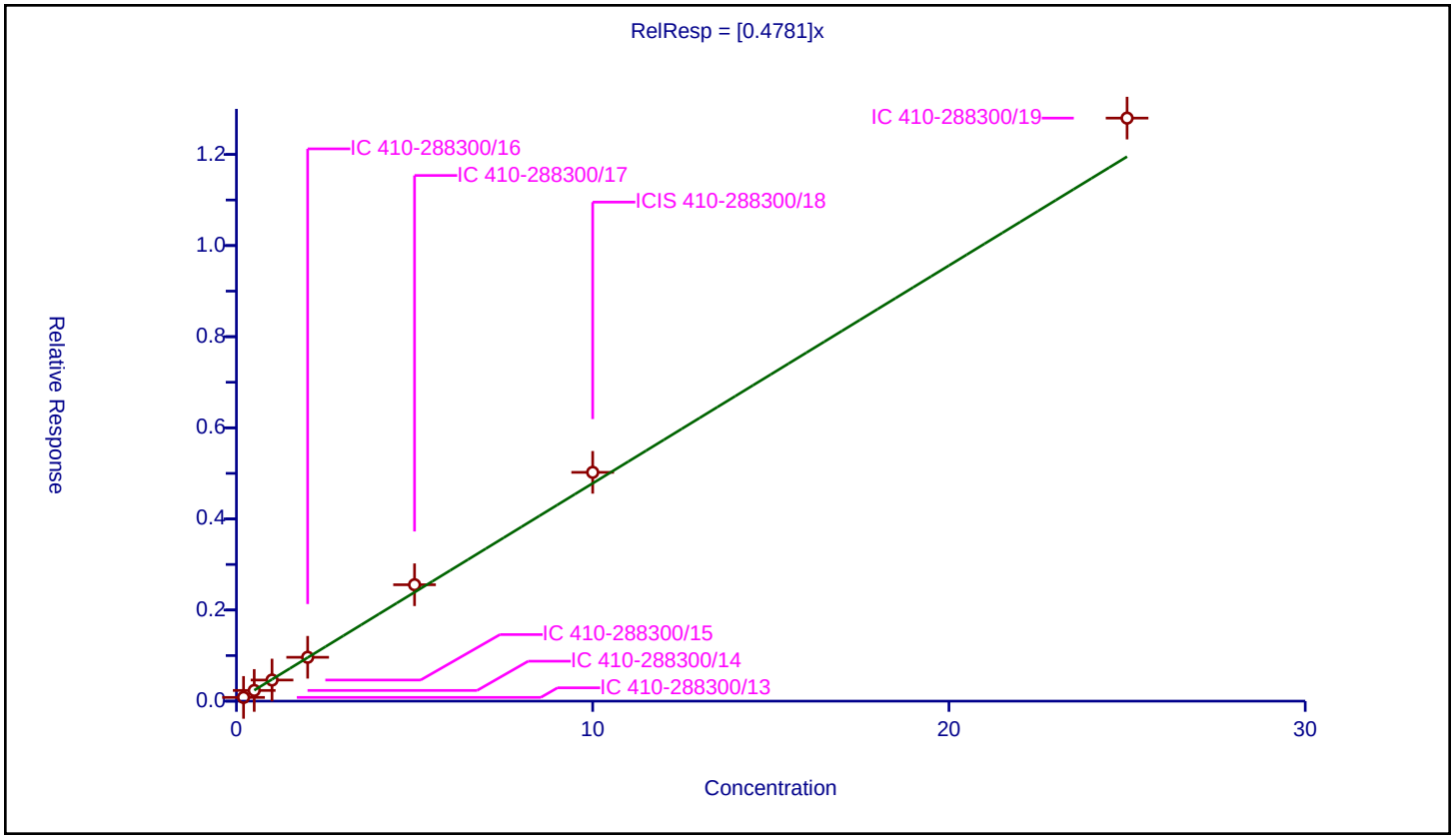
Curve Coefficients

Intercept:	0
Slope:	0.4781

Error Coefficients

Standard Error:	528000
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 410-288300/13	0.2	0.081656	10.0	881628.0	0.408279	Y
2	IC 410-288300/14	0.5	0.234512	10.0	871682.0	0.469024	Y
3	IC 410-288300/15	1.0	0.463139	10.0	860455.0	0.463139	Y
4	IC 410-288300/16	2.0	0.962334	10.0	872795.0	0.481167	Y
5	IC 410-288300/17	5.0	2.555016	10.0	886836.0	0.511003	Y
6	ICIS 410-288300/18	10.0	5.022022	10.0	900908.0	0.502202	Y
7	IC 410-288300/19	25.0	12.797625	10.0	926990.0	0.511905	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

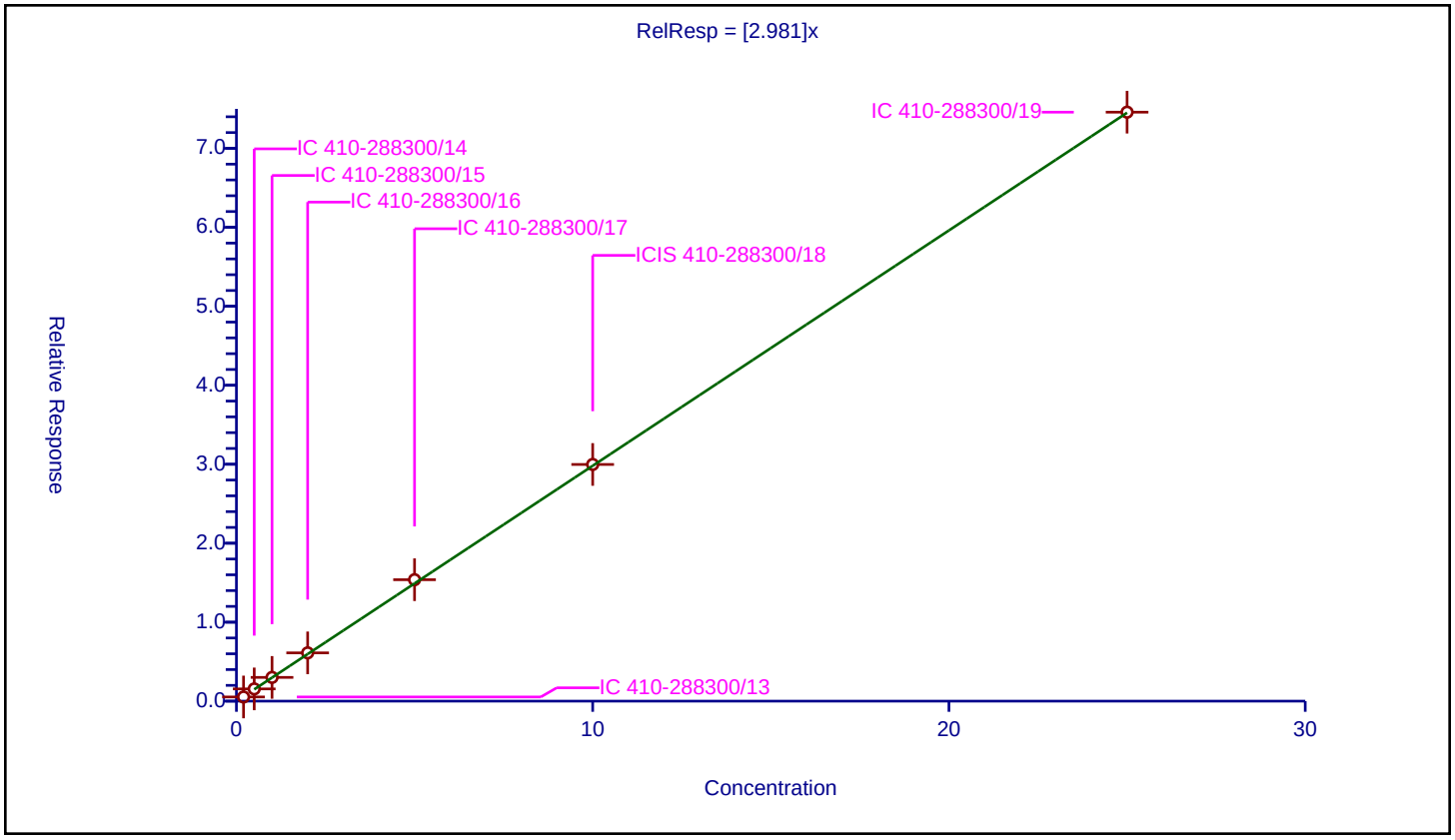
Curve Coefficients

Intercept:	0
Slope:	2.981

Error Coefficients

Standard Error:	3090000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.528908	10.0	881628.0	2.644539	Y
2	IC 410-288300/14	0.5	1.54998	10.0	871682.0	3.099961	Y
3	IC 410-288300/15	1.0	3.005329	10.0	860455.0	3.005329	Y
4	IC 410-288300/16	2.0	6.114746	10.0	872795.0	3.057373	Y
5	IC 410-288300/17	5.0	15.37945	10.0	886836.0	3.07589	Y
6	ICIS 410-288300/18	10.0	29.97386	10.0	900908.0	2.997386	Y
7	IC 410-288300/19	25.0	74.585918	10.0	926990.0	2.983437	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

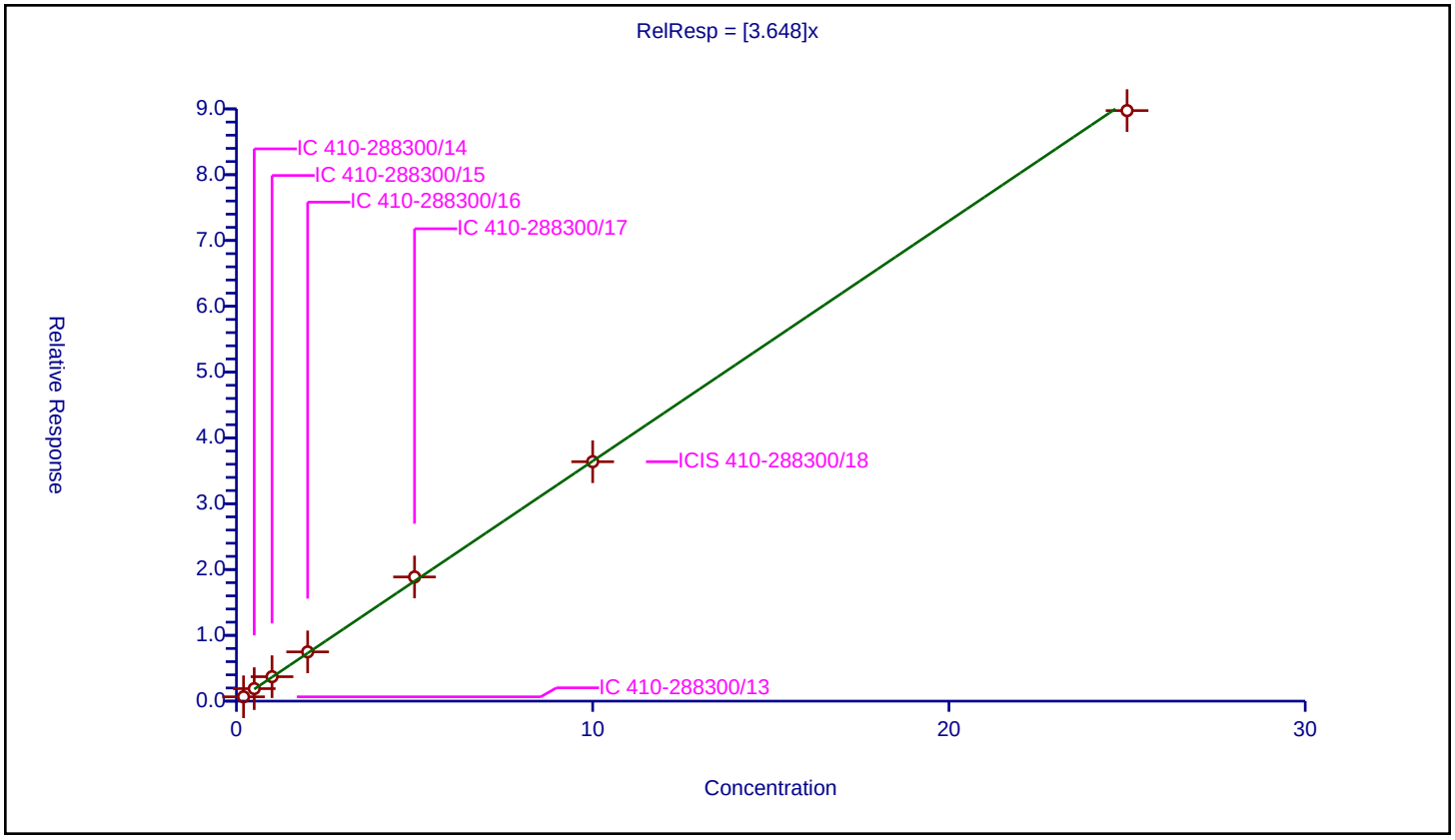
Curve Coefficients

Intercept:	0
Slope:	3.648

Error Coefficients

Standard Error:	3730000
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 410-288300/13	0.2	0.656025	10.0	881628.0	3.280125	Y
2	IC 410-288300/14	0.5	1.899741	10.0	871682.0	3.799482	Y
3	IC 410-288300/15	1.0	3.711722	10.0	860455.0	3.711722	Y
4	IC 410-288300/16	2.0	7.486122	10.0	872795.0	3.743061	Y
5	IC 410-288300/17	5.0	18.869171	10.0	886836.0	3.773834	Y
6	ICIS 410-288300/18	10.0	36.384303	10.0	900908.0	3.63843	Y
7	IC 410-288300/19	25.0	89.740386	10.0	926990.0	3.589615	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

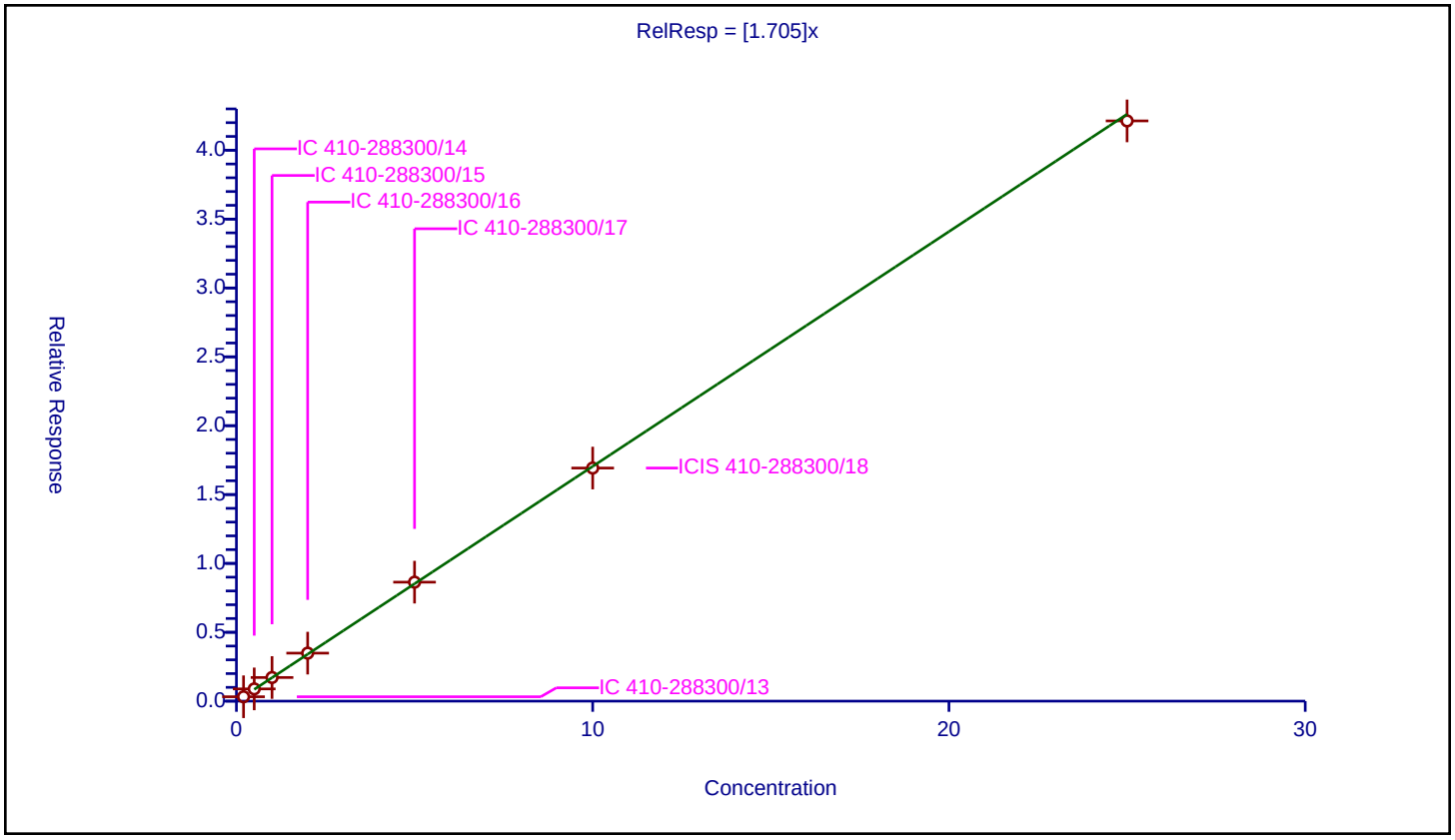
Curve Coefficients

Intercept:	0
Slope:	1.705

Error Coefficients

Standard Error:	1750000
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 410-288300/13	0.2	0.318116	10.0	881628.0	1.59058	Y
2	IC 410-288300/14	0.5	0.888719	10.0	871682.0	1.777437	Y
3	IC 410-288300/15	1.0	1.715941	10.0	860455.0	1.715941	Y
4	IC 410-288300/16	2.0	3.485584	10.0	872795.0	1.742792	Y
5	IC 410-288300/17	5.0	8.63835	10.0	886836.0	1.72767	Y
6	ICIS 410-288300/18	10.0	16.923681	10.0	900908.0	1.692368	Y
7	IC 410-288300/19	25.0	42.12861	10.0	926990.0	1.685144	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

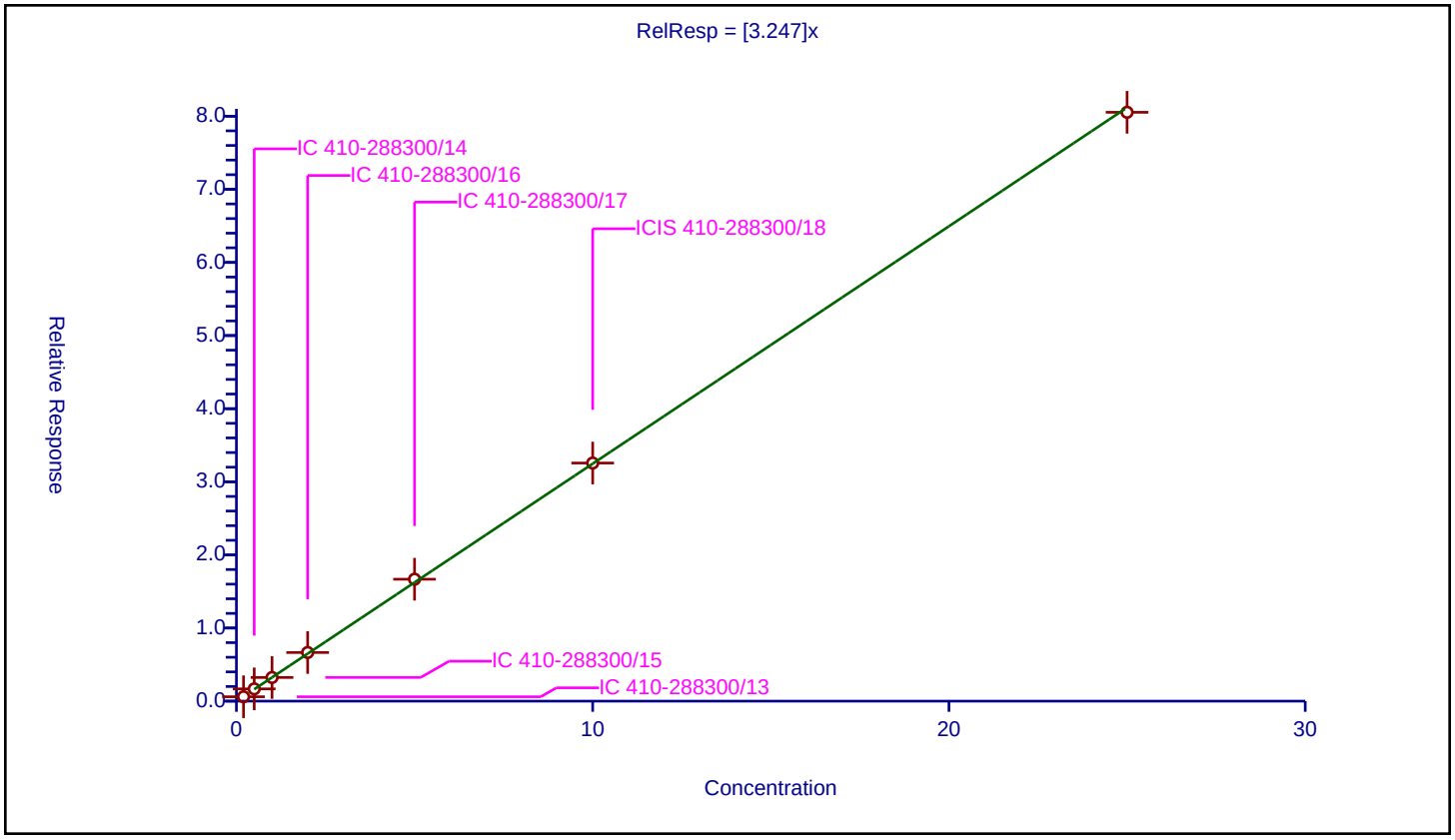
Curve Coefficients

Intercept:	0
Slope:	3.247

Error Coefficients

Standard Error:	3340000
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 410-288300/13	0.2	0.600752	10.0	881628.0	3.003761	Y
2	IC 410-288300/14	0.5	1.677183	10.0	871682.0	3.354365	Y
3	IC 410-288300/15	1.0	3.235056	10.0	860455.0	3.235056	Y
4	IC 410-288300/16	2.0	6.651814	10.0	872795.0	3.325907	Y
5	IC 410-288300/17	5.0	16.672632	10.0	886836.0	3.334526	Y
6	ICIS 410-288300/18	10.0	32.56378	10.0	900908.0	3.256378	Y
7	IC 410-288300/19	25.0	80.532303	10.0	926990.0	3.221292	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

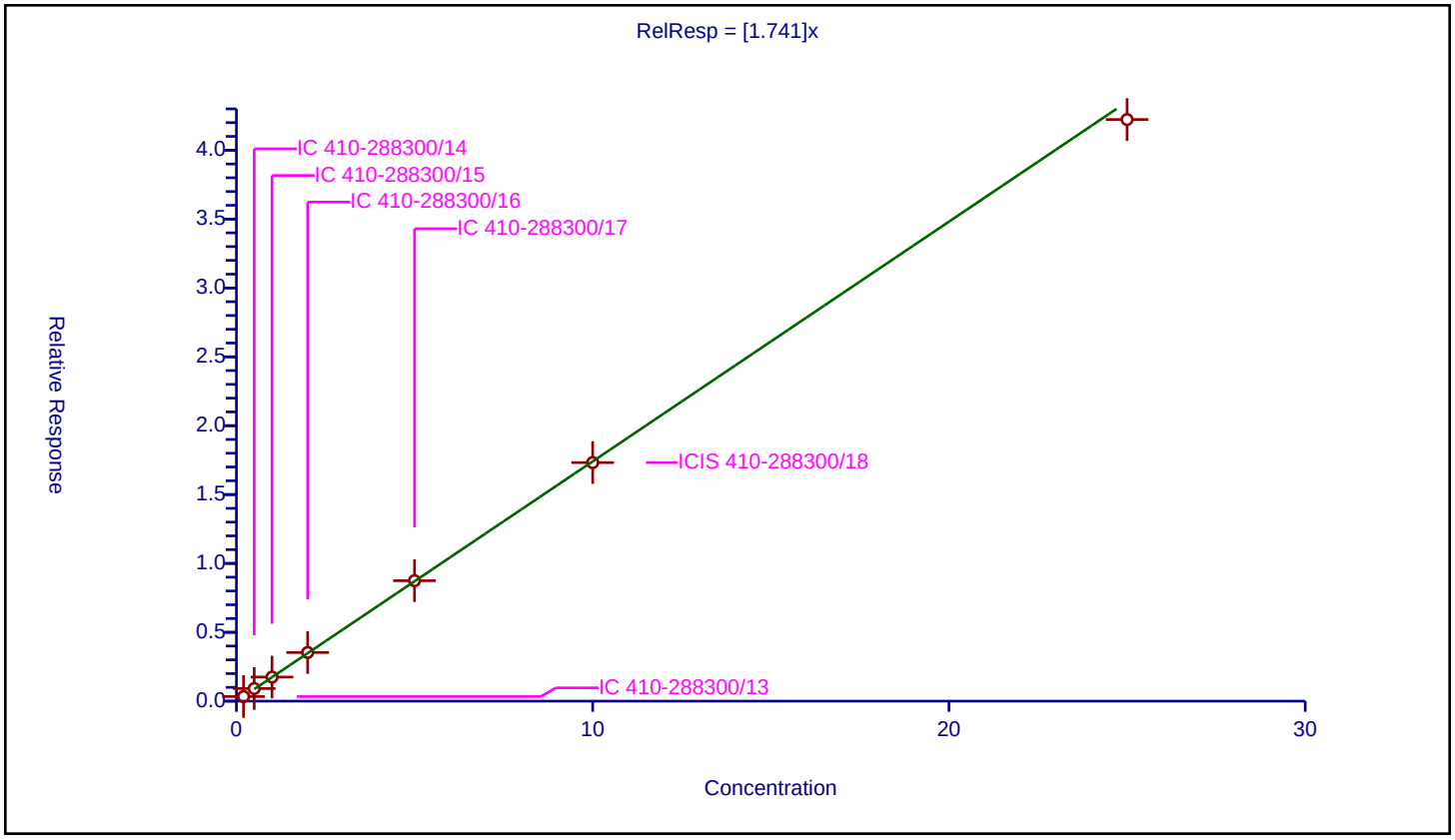
Curve Coefficients

Intercept:	0
Slope:	1.741

Error Coefficients

Standard Error:	1760000
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 410-288300/13	0.2	0.333292	10.0	881628.0	1.666462	Y
2	IC 410-288300/14	0.5	0.915701	10.0	871682.0	1.831402	Y
3	IC 410-288300/15	1.0	1.749818	10.0	860455.0	1.749818	Y
4	IC 410-288300/16	2.0	3.531757	10.0	872795.0	1.765879	Y
5	IC 410-288300/17	5.0	8.7458	10.0	886836.0	1.74916	Y
6	ICIS 410-288300/18	10.0	17.32047	10.0	900908.0	1.732047	Y
7	IC 410-288300/19	25.0	42.225612	10.0	926990.0	1.689024	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

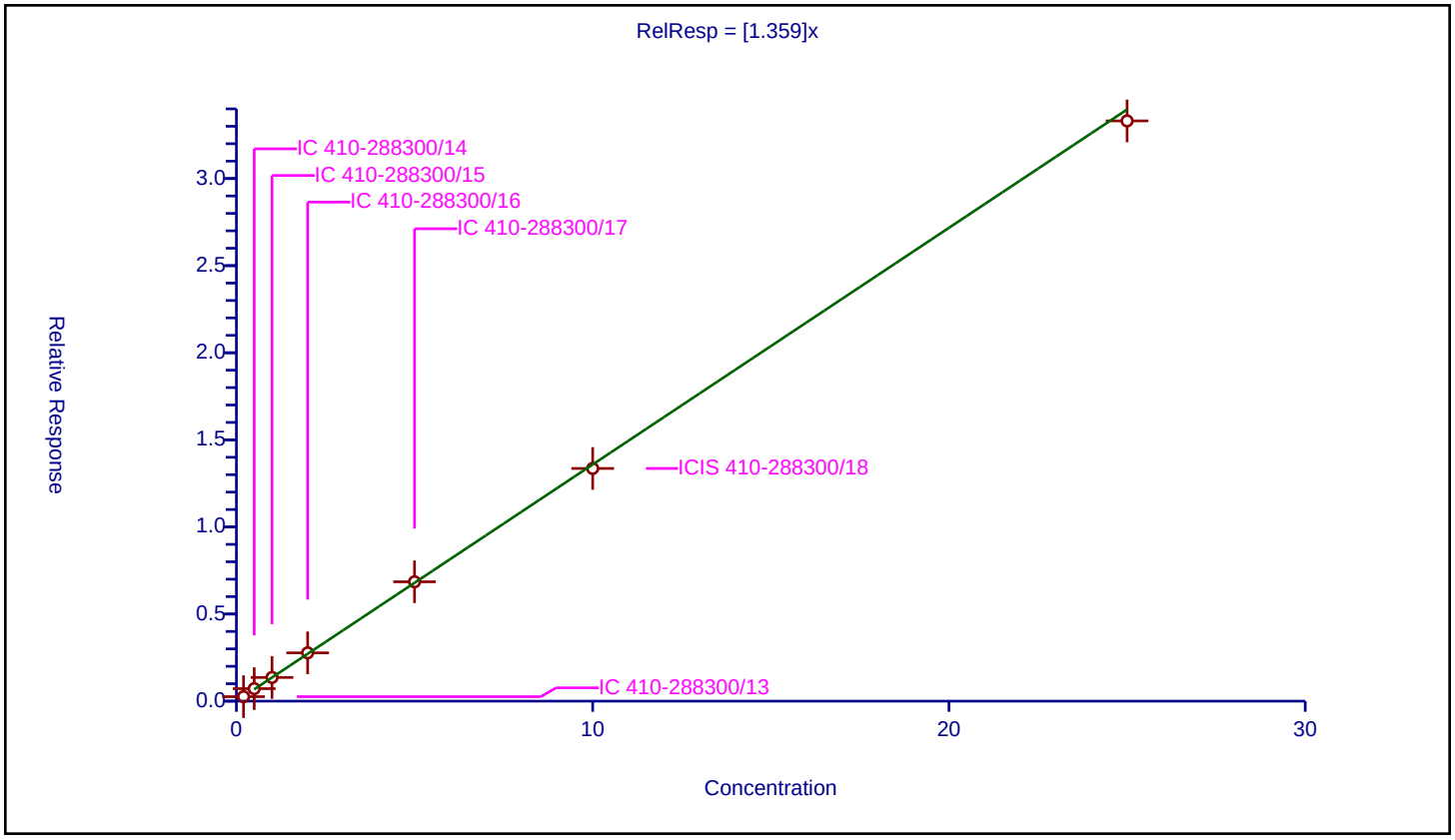
Curve Coefficients

Intercept:	0
Slope:	1.359

Error Coefficients

Standard Error:	1380000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.258	10.0	881628.0	1.29	Y
2	IC 410-288300/14	0.5	0.717268	10.0	871682.0	1.434537	Y
3	IC 410-288300/15	1.0	1.360594	10.0	860455.0	1.360594	Y
4	IC 410-288300/16	2.0	2.772644	10.0	872795.0	1.386322	Y
5	IC 410-288300/17	5.0	6.851921	10.0	886836.0	1.370384	Y
6	ICIS 410-288300/18	10.0	13.358057	10.0	900908.0	1.335806	Y
7	IC 410-288300/19	25.0	33.310014	10.0	926990.0	1.332401	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

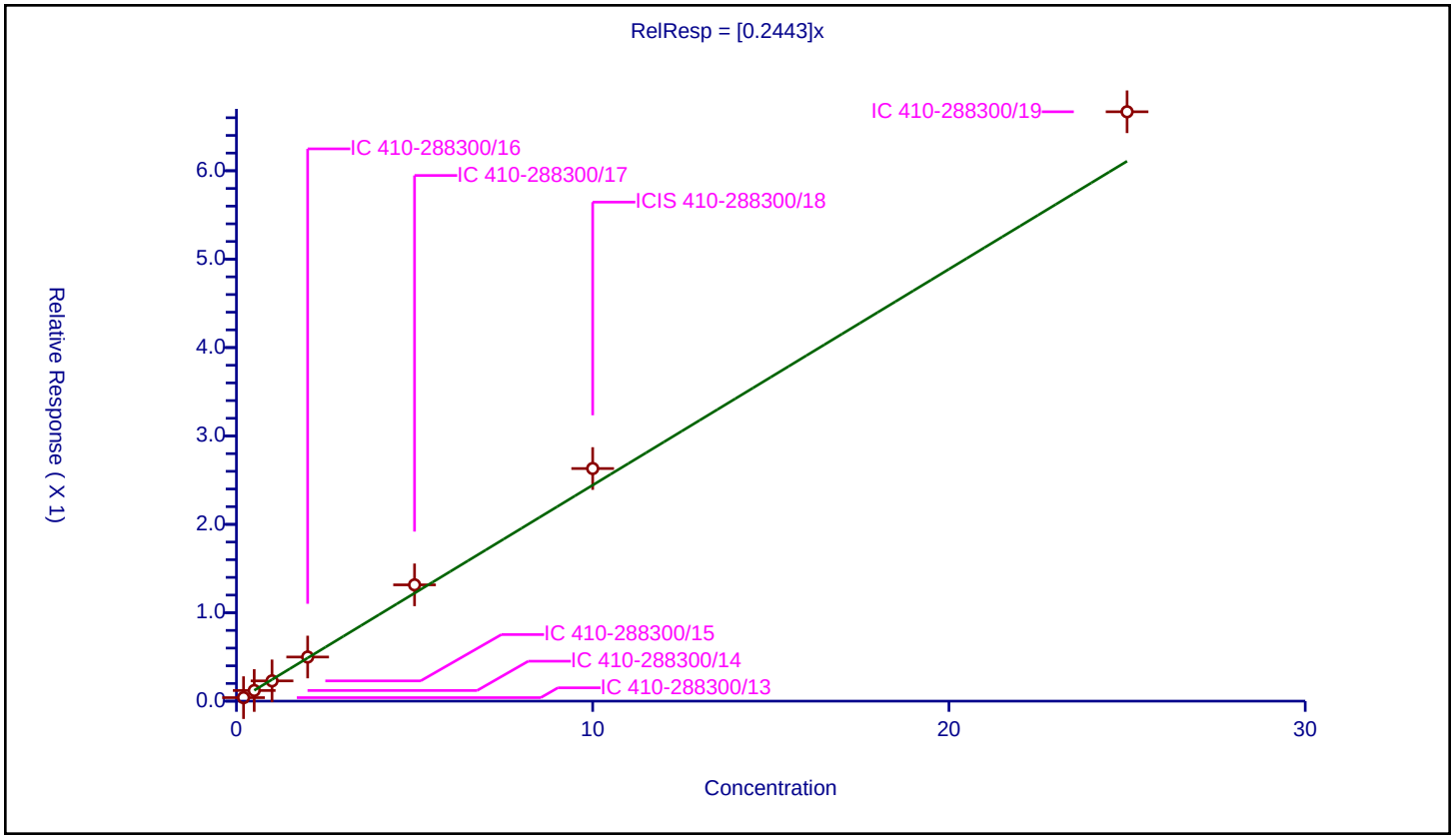
Curve Coefficients

Intercept:	0
Slope:	0.2443

Error Coefficients

Standard Error:	275000
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 410-288300/13	0.2	0.039575	10.0	881628.0	0.197873	Y
2	IC 410-288300/14	0.5	0.120422	10.0	871682.0	0.240845	Y
3	IC 410-288300/15	1.0	0.229228	10.0	860455.0	0.229228	Y
4	IC 410-288300/16	2.0	0.499029	10.0	872795.0	0.249514	Y
5	IC 410-288300/17	5.0	1.31561	10.0	886836.0	0.263122	Y
6	ICIS 410-288300/18	10.0	2.631367	10.0	900908.0	0.263137	Y
7	IC 410-288300/19	25.0	6.667451	10.0	926990.0	0.266698	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

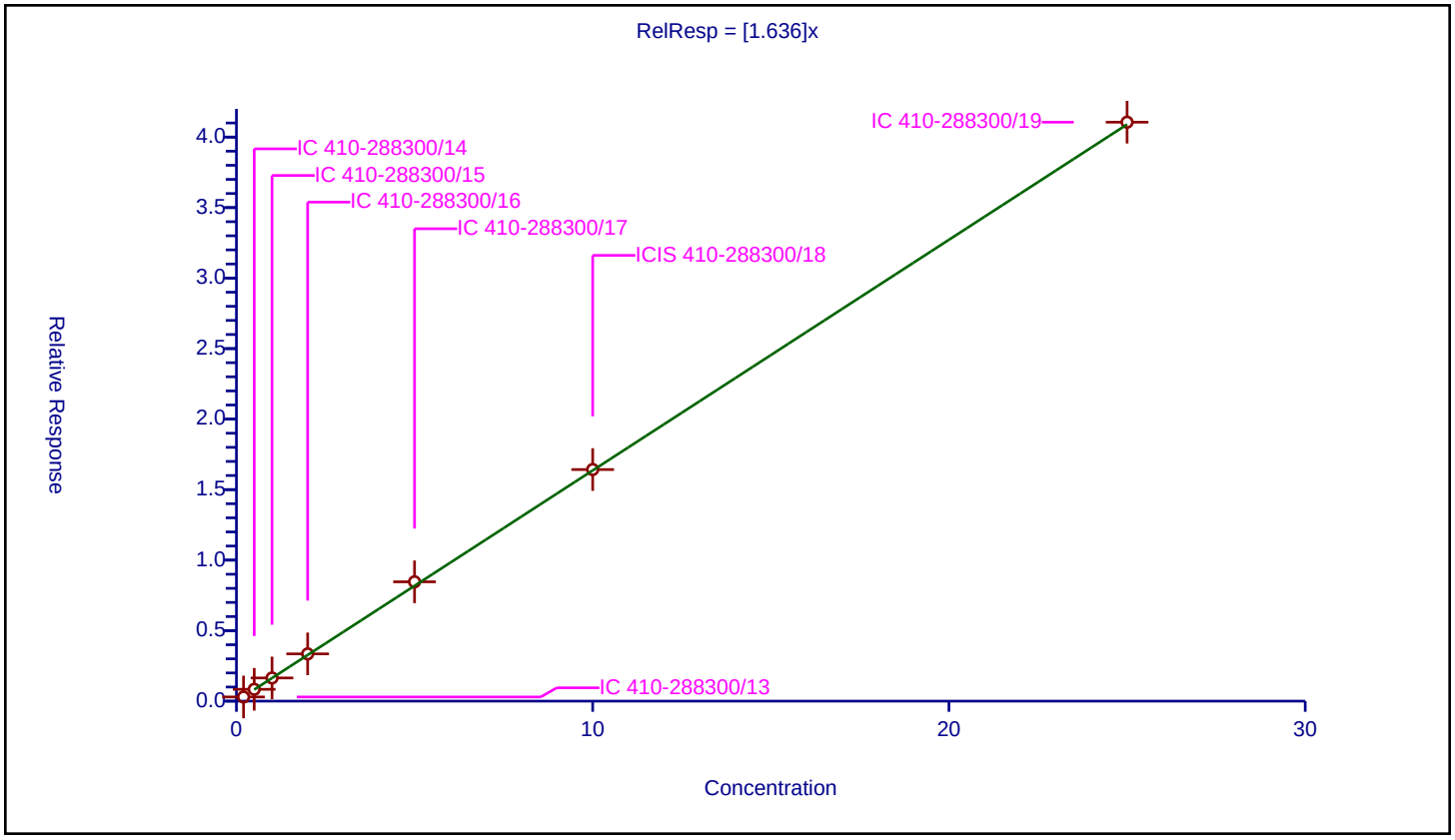
Curve Coefficients

Intercept:	0
Slope:	1.636

Error Coefficients

Standard Error:	1700000
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 410-288300/13	0.2	0.295011	10.0	881628.0	1.475055	Y
2	IC 410-288300/14	0.5	0.840008	10.0	871682.0	1.680016	Y
3	IC 410-288300/15	1.0	1.643503	10.0	860455.0	1.643503	Y
4	IC 410-288300/16	2.0	3.351703	10.0	872795.0	1.675852	Y
5	IC 410-288300/17	5.0	8.462241	10.0	886836.0	1.692448	Y
6	ICIS 410-288300/18	10.0	16.423997	10.0	900908.0	1.6424	Y
7	IC 410-288300/19	25.0	41.056743	10.0	926990.0	1.64227	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

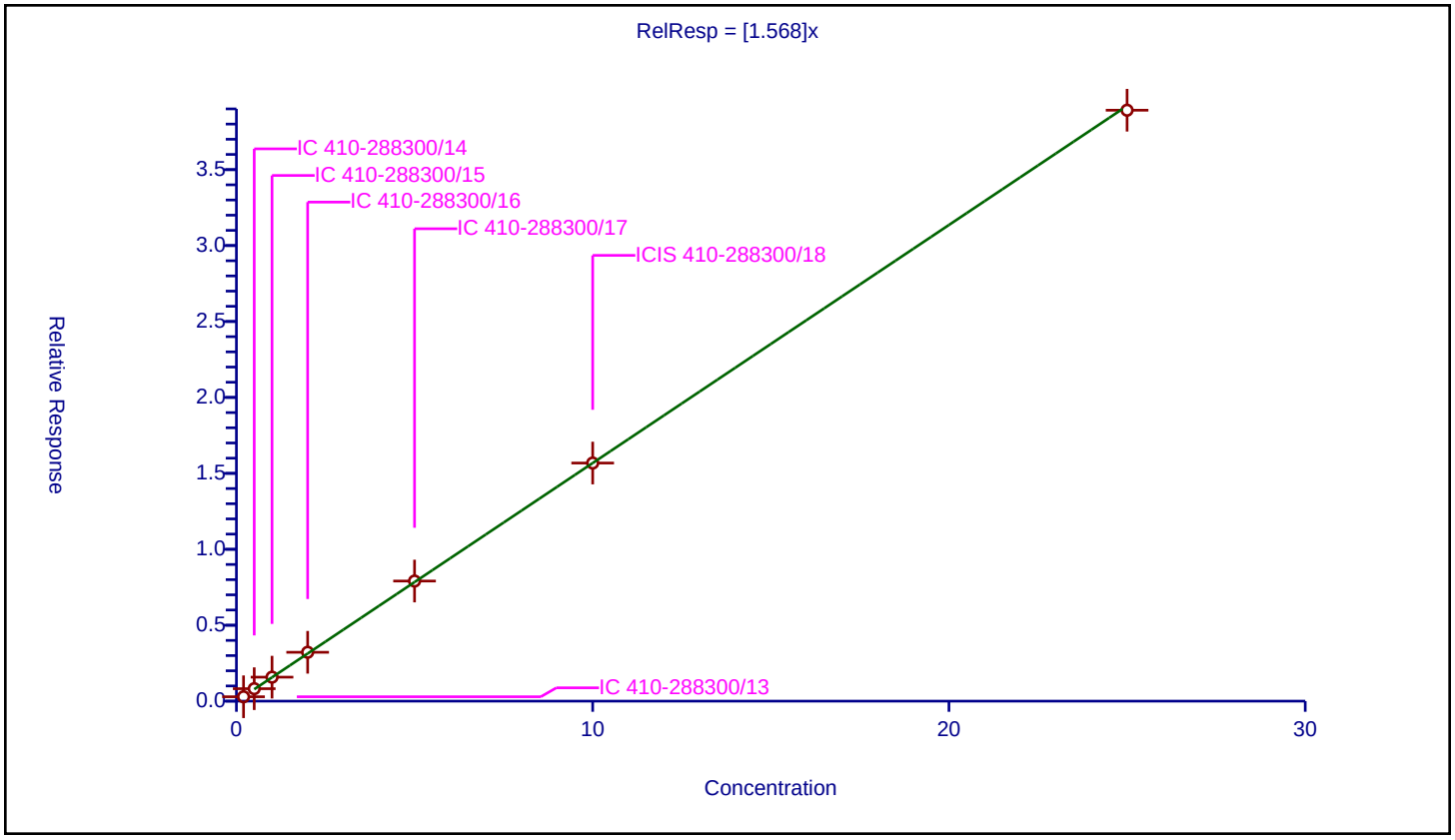
Curve Coefficients

Intercept:	0
Slope:	1.568

Error Coefficients

Standard Error:	1610000
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 410-288300/13	0.2	0.288137	10.0	881628.0	1.440687	Y
2	IC 410-288300/14	0.5	0.819691	10.0	871682.0	1.639382	Y
3	IC 410-288300/15	1.0	1.579618	10.0	860455.0	1.579618	Y
4	IC 410-288300/16	2.0	3.218121	10.0	872795.0	1.609061	Y
5	IC 410-288300/17	5.0	7.908734	10.0	886836.0	1.581747	Y
6	ICIS 410-288300/18	10.0	15.679359	10.0	900908.0	1.567936	Y
7	IC 410-288300/19	25.0	38.913063	10.0	926990.0	1.556523	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

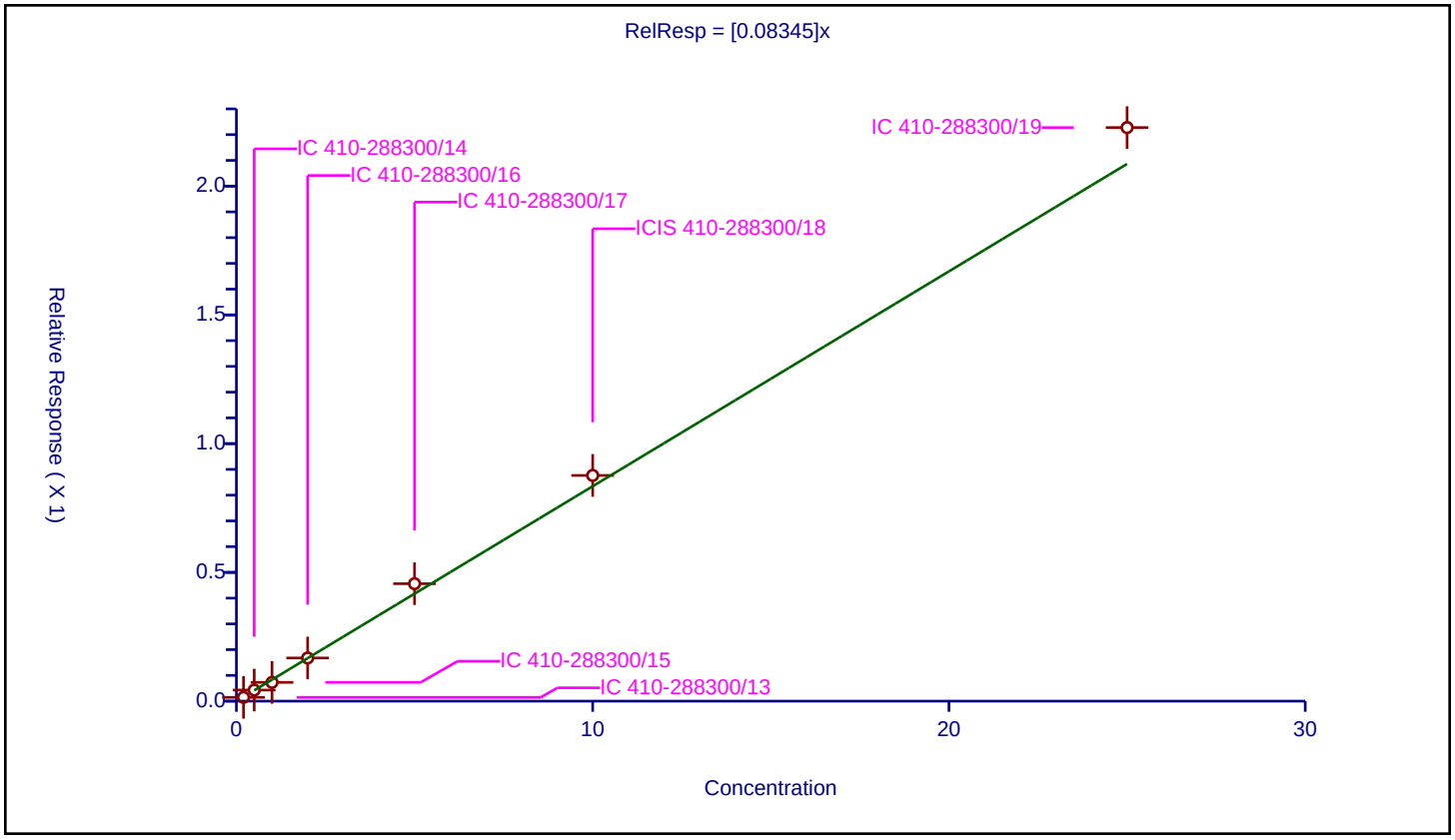
Curve Coefficients

Intercept:	0
Slope:	0.08345

Error Coefficients

Standard Error:	92000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-288300/13	0.2	0.014689	10.0	881628.0	0.073444	Y
2	IC 410-288300/14	0.5	0.04302	10.0	871682.0	0.086041	Y
3	IC 410-288300/15	1.0	0.072915	10.0	860455.0	0.072915	Y
4	IC 410-288300/16	2.0	0.167588	10.0	872795.0	0.083794	Y
5	IC 410-288300/17	5.0	0.456048	10.0	886836.0	0.09121	Y
6	ICIS 410-288300/18	10.0	0.876538	10.0	900908.0	0.087654	Y
7	IC 410-288300/19	25.0	2.227349	10.0	926990.0	0.089094	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

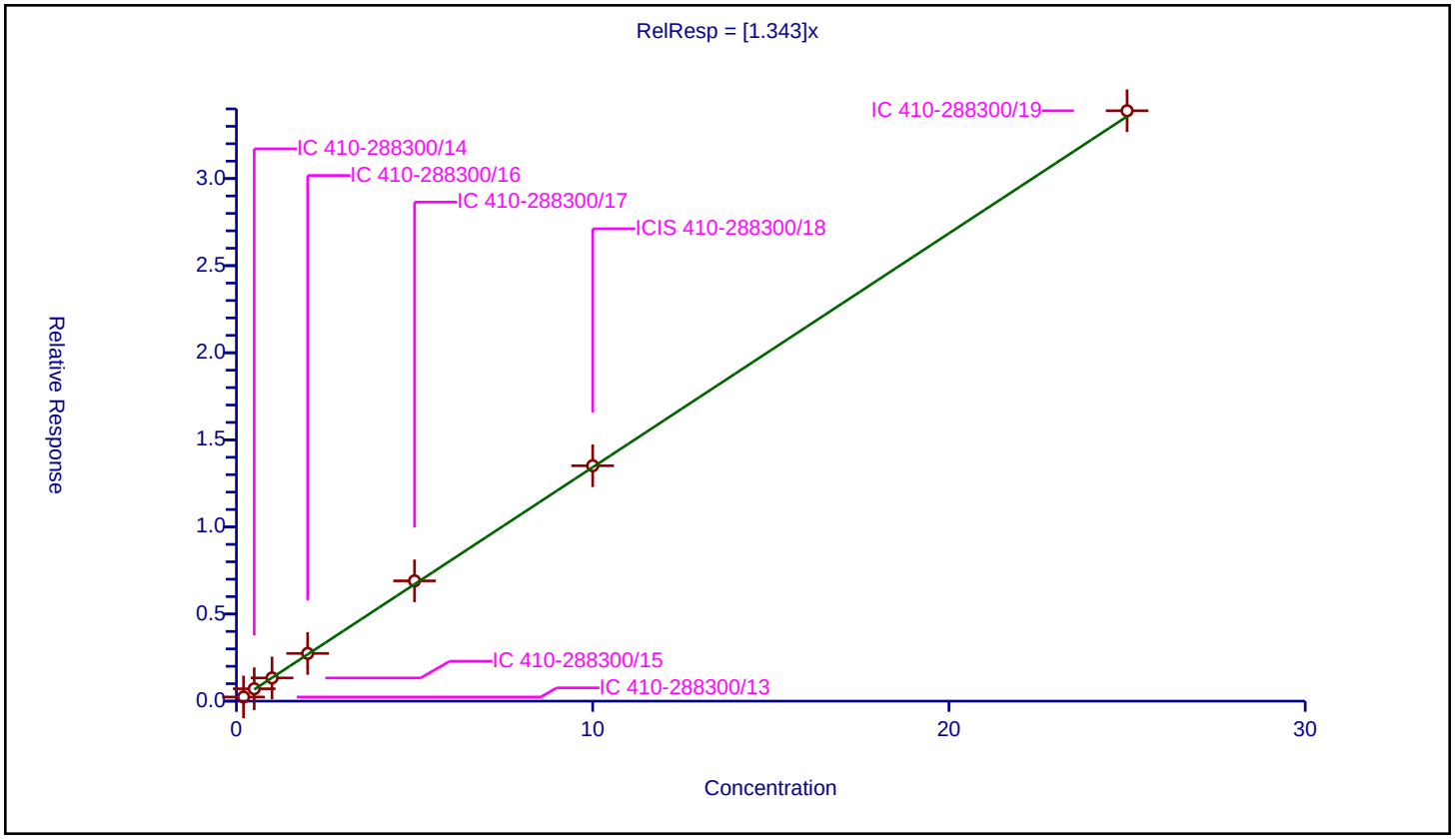
Curve Coefficients

Intercept:	0
Slope:	1.343

Error Coefficients

Standard Error:	1400000
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 410-288300/13	0.2	0.237356	10.0	881628.0	1.186782	Y
2	IC 410-288300/14	0.5	0.710638	10.0	871682.0	1.421275	Y
3	IC 410-288300/15	1.0	1.33319	10.0	860455.0	1.33319	Y
4	IC 410-288300/16	2.0	2.739406	10.0	872795.0	1.369703	Y
5	IC 410-288300/17	5.0	6.905099	10.0	886836.0	1.38102	Y
6	ICIS 410-288300/18	10.0	13.514876	10.0	900908.0	1.351488	Y
7	IC 410-288300/19	25.0	33.89234	10.0	926990.0	1.355694	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

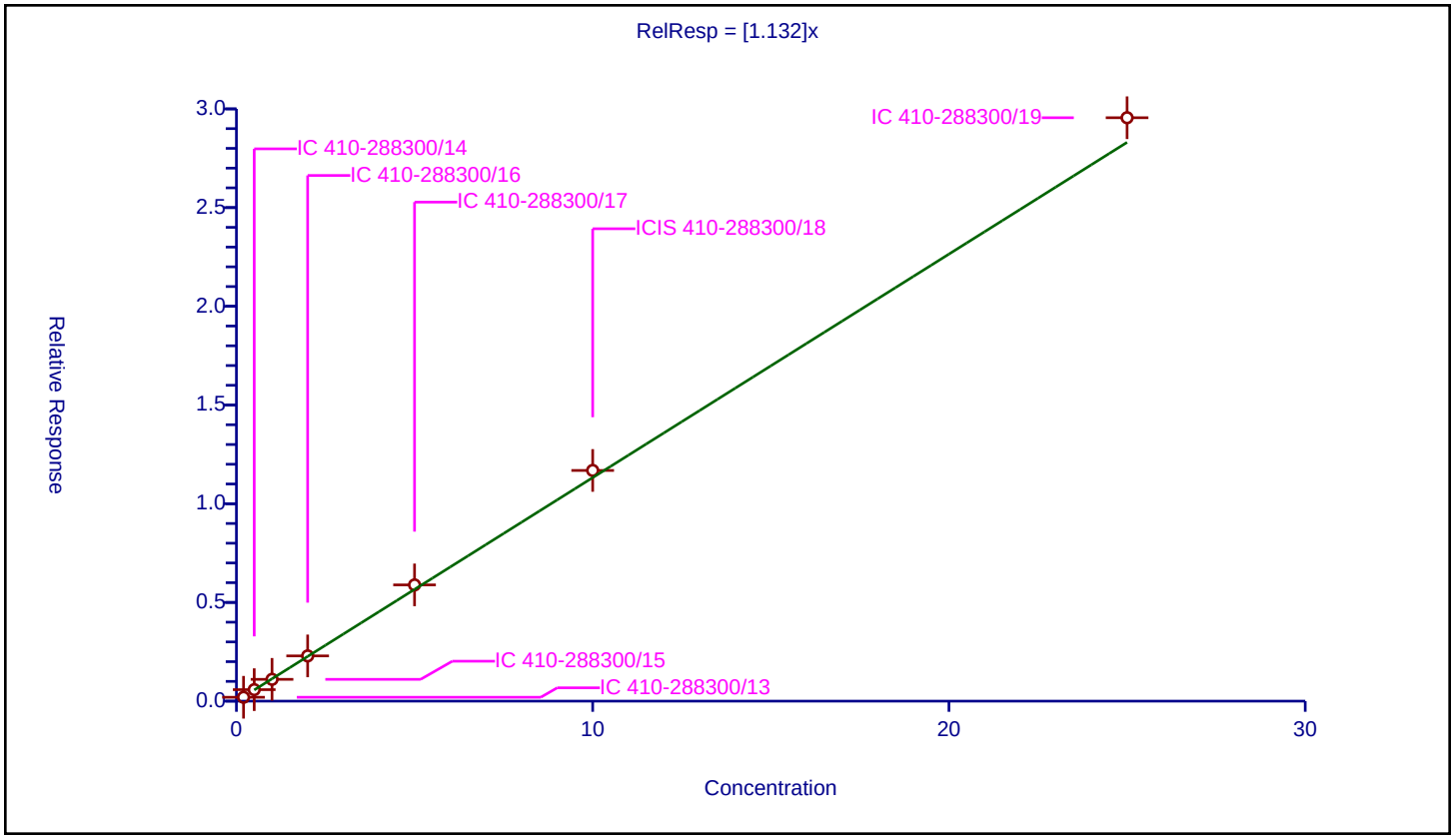
Curve Coefficients

Intercept:	0
Slope:	1.132

Error Coefficients

Standard Error:	1220000
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 410-288300/13	0.2	0.196511	10.0	881628.0	0.982557	Y
2	IC 410-288300/14	0.5	0.58238	10.0	871682.0	1.16476	Y
3	IC 410-288300/15	1.0	1.104032	10.0	860455.0	1.104032	Y
4	IC 410-288300/16	2.0	2.291913	10.0	872795.0	1.145956	Y
5	IC 410-288300/17	5.0	5.88783	10.0	886836.0	1.177566	Y
6	ICIS 410-288300/18	10.0	11.686066	10.0	900908.0	1.168607	Y
7	IC 410-288300/19	25.0	29.552714	10.0	926990.0	1.182109	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

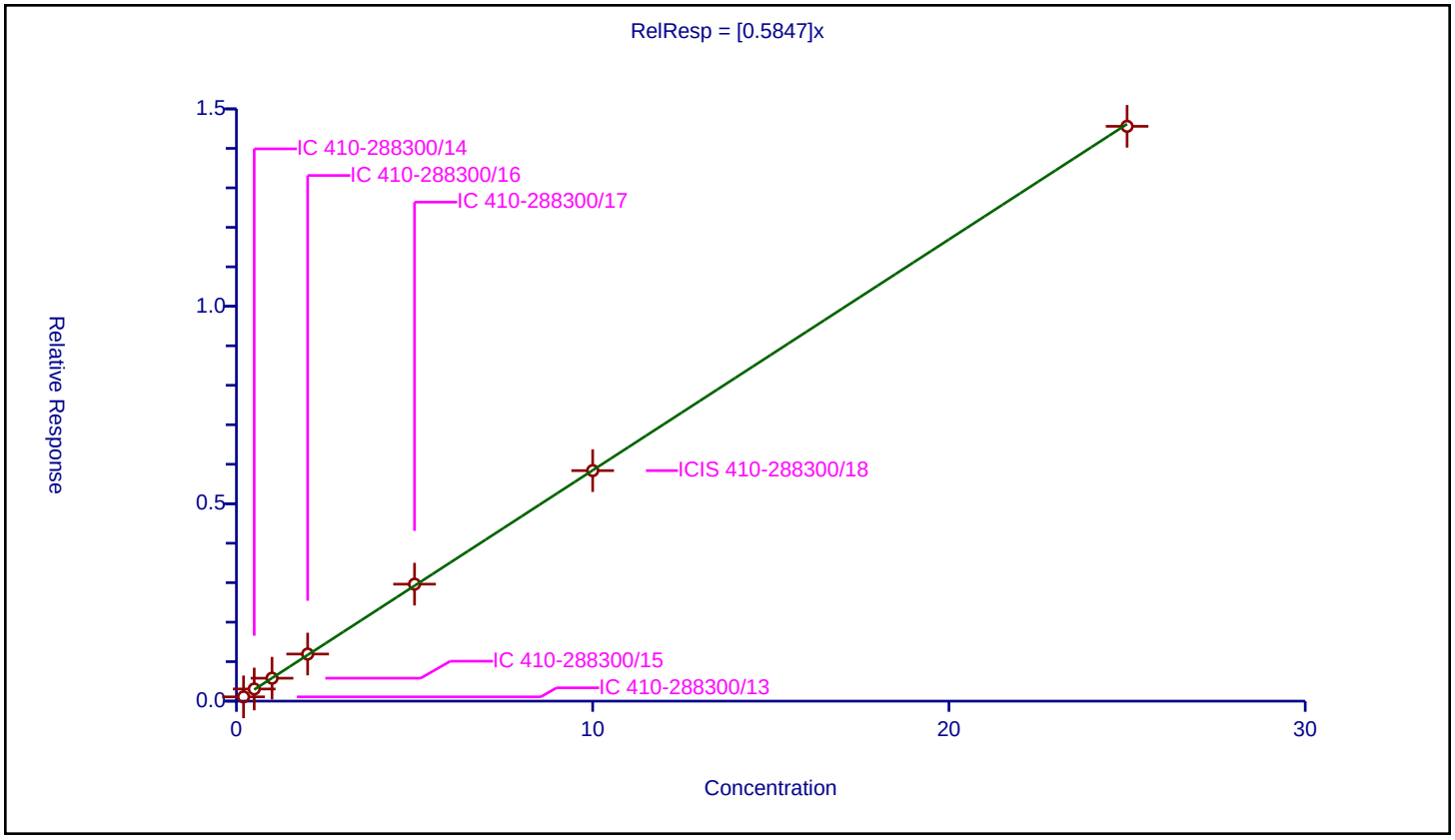
Curve Coefficients

Intercept:	0
Slope:	0.5847

Error Coefficients

Standard Error:	603000
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 410-288300/13	0.2	0.108107	10.0	881628.0	0.540534	Y
2	IC 410-288300/14	0.5	0.307922	10.0	871682.0	0.615844	Y
3	IC 410-288300/15	1.0	0.580972	10.0	860455.0	0.580972	Y
4	IC 410-288300/16	2.0	1.192835	10.0	872795.0	0.596417	Y
5	IC 410-288300/17	5.0	2.963062	10.0	886836.0	0.592612	Y
6	ICIS 410-288300/18	10.0	5.838665	10.0	900908.0	0.583866	Y
7	IC 410-288300/19	25.0	14.55869	10.0	926990.0	0.582348	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

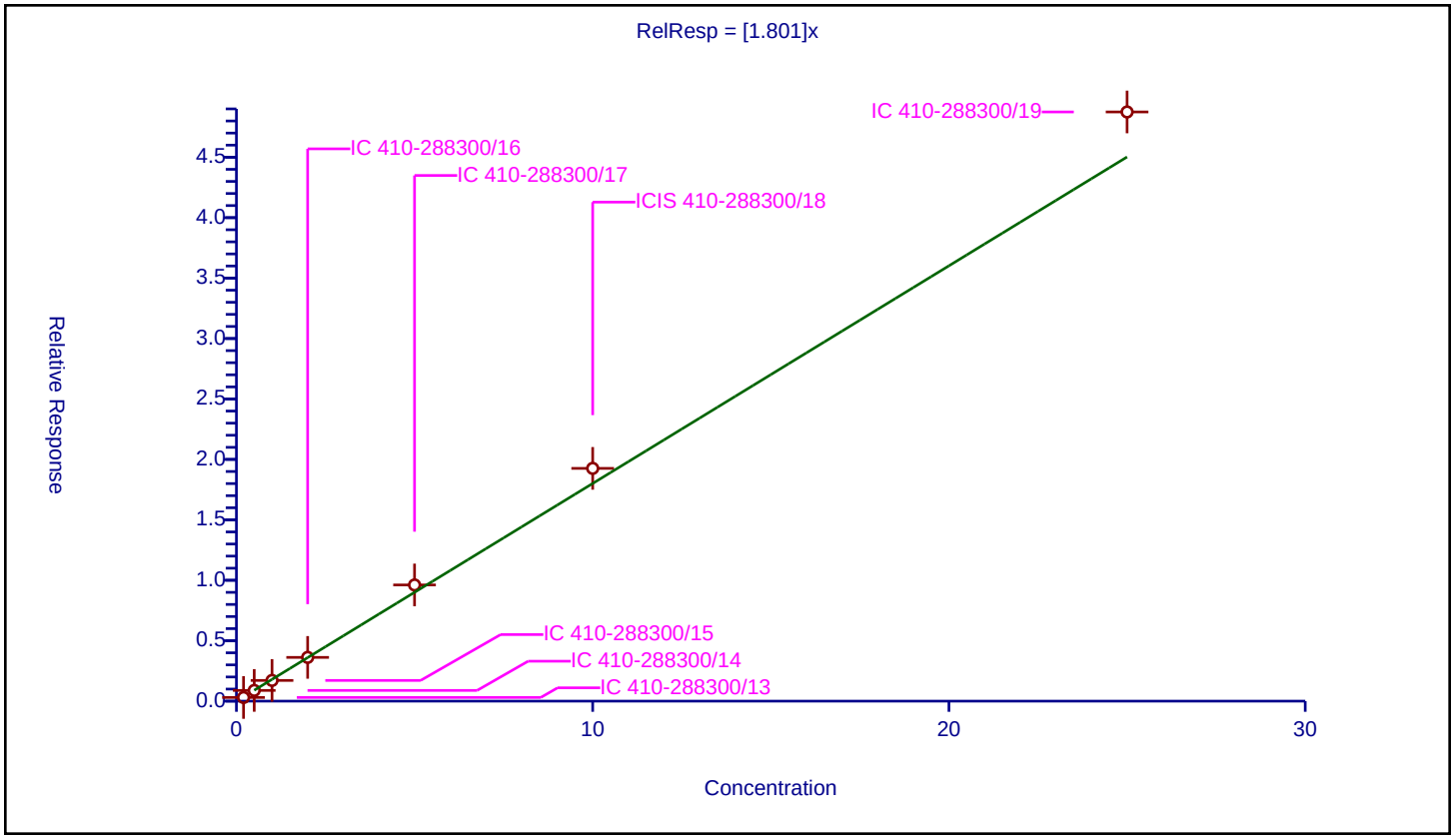
Curve Coefficients

Intercept:	0
Slope:	1.801

Error Coefficients

Standard Error:	2010000
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 410-288300/13	0.2	0.302996	10.0	881628.0	1.514981	Y
2	IC 410-288300/14	0.5	0.885851	10.0	871682.0	1.771701	Y
3	IC 410-288300/15	1.0	1.712315	10.0	860455.0	1.712315	Y
4	IC 410-288300/16	2.0	3.619246	10.0	872795.0	1.809623	Y
5	IC 410-288300/17	5.0	9.613266	10.0	886836.0	1.922653	Y
6	ICIS 410-288300/18	10.0	19.257782	10.0	900908.0	1.925778	Y
7	IC 410-288300/19	25.0	48.745974	10.0	926990.0	1.949839	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

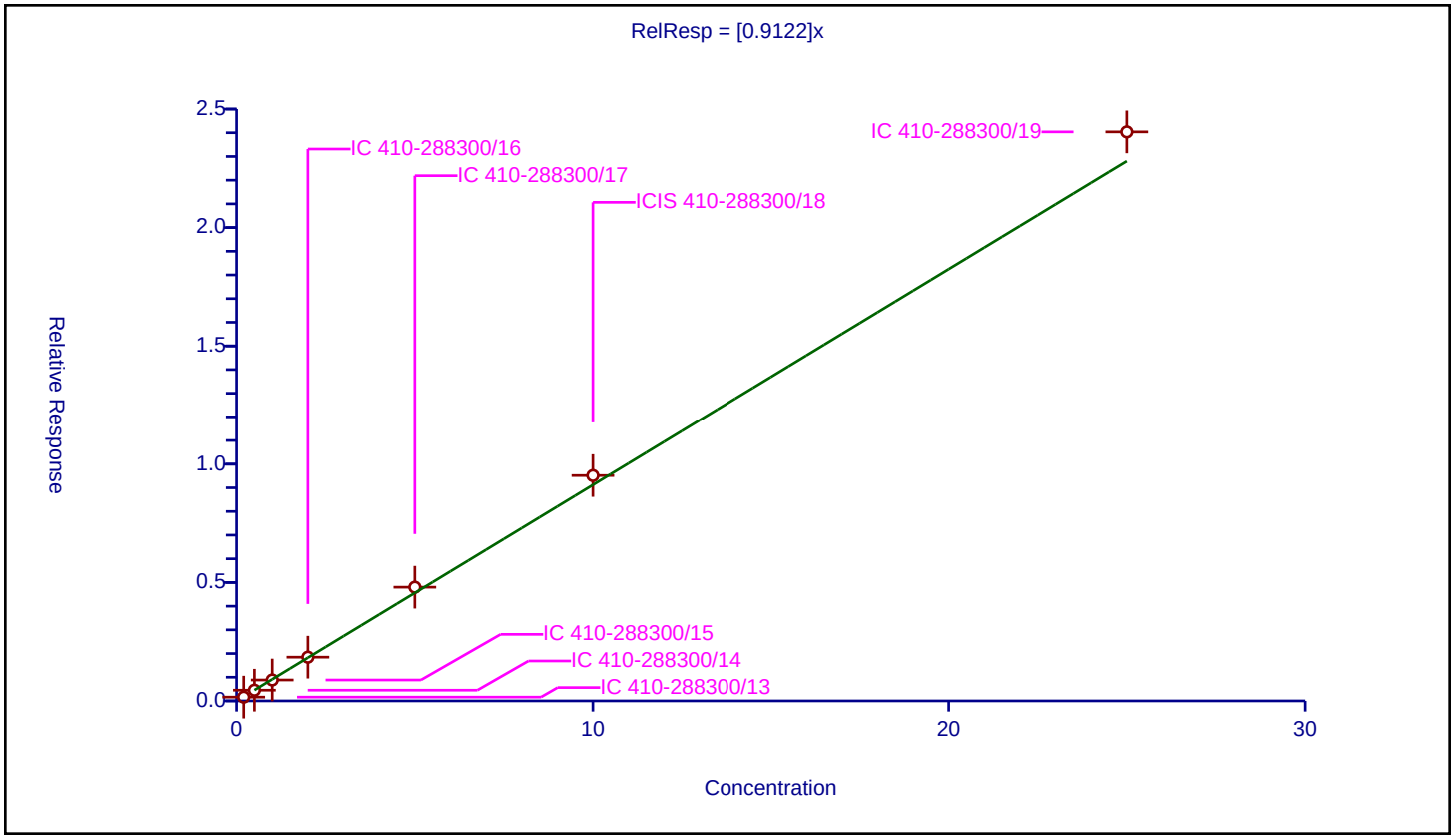
Curve Coefficients

Intercept:	0
Slope:	0.9122

Error Coefficients

Standard Error:	993000
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 410-288300/13	0.2	0.160204	10.0	881628.0	0.801018	Y
2	IC 410-288300/14	0.5	0.45208	10.0	871682.0	0.90416	Y
3	IC 410-288300/15	1.0	0.883335	10.0	860455.0	0.883335	Y
4	IC 410-288300/16	2.0	1.84631	10.0	872795.0	0.923155	Y
5	IC 410-288300/17	5.0	4.801609	10.0	886836.0	0.960322	Y
6	ICIS 410-288300/18	10.0	9.518641	10.0	900908.0	0.951864	Y
7	IC 410-288300/19	25.0	24.03712	10.0	926990.0	0.961485	Y



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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1 Analy Batch No.: 274149

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 16:51 Calibration End Date: 07/11/2022 18:52 Calibration ID: 40553

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-274149/18	Copy_HL11X18.D
Level 2	IC 410-274149/17	HL11X17.D
Level 3	IC 410-274149/16	HL11X16.D
Level 4	IC 410-274149/15	HL11X15.D
Level 5	IC 410-274149/14	HL11X14.D
Level 6	ICIS 410-274149/13	HL11X13.D
Level 7	IC 410-274149/12	HL11X12.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	0.2899 0.3243	0.2898 0.3074	0.2915	0.3276	0.3136	Ave		0.3063			0.1000	5.3		20.0			
Chloromethane	0.3803 0.3959	0.3521 0.3831	0.3530	0.4218	0.4001	Ave		0.3838			0.1000	6.6		20.0			
1,3-Butadiene	0.4055 0.3689	0.3193 0.3570	0.3445	0.3879	0.3541	Ave		0.3624				7.8		20.0			
Vinyl chloride	0.3544 0.4008	0.3380 0.3897	0.3606	0.4217	0.3964	Ave		0.3802			0.1000	7.8		20.0			
Bromomethane	0.2768 0.2762	0.2519 0.2644	0.2409	0.2851	0.2731	Ave		0.2669			0.1000	5.9		20.0			
Chloroethane	0.2241 0.2379	0.2198 0.2307	0.2148	0.2503	0.2371	Ave		0.2307			0.1000	5.3		20.0			
Dichlorofluoromethane	0.5070 0.5354	0.4704 0.5193	0.4649	0.5570	0.5251	Ave		0.5113			0.1000	6.6		20.0			
Trichlorofluoromethane	0.4267 0.4948	0.4087 0.4749	0.4290	0.5040	0.4836	Ave		0.4602			0.1000	8.2		20.0			
Ethyl ether	0.1851 0.2049	0.1696 0.1924	0.1805	0.2134	0.2012	Ave		0.1924				7.9		20.0			
Freon 123a	0.3385 0.3748	0.3443 0.3600	0.3305	0.3902	0.3710	Ave		0.3585				6.0		20.0			
Acrolein	2.1925 2.9237	3.0932 2.9018	2.8924	2.7403	2.4897	Ave		2.7476				11.2		20.0			
1,1-Dichloroethene	0.2329 0.2740	0.2636 0.2583	0.2505	0.2750	0.2660	Ave		0.2601			0.1000	5.7		20.0			
Acetone	3.8921 2.9605	3.8819 2.7109	3.2721	2.8654	2.8088	Ave		3.1988			0.1000	15.7		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.: 410-99372-1 Analy Batch No.: 274149

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 16:51 Calibration End Date: 07/11/2022 18:52 Calibration ID: 40553

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	0.2250 0.2706	0.2422 0.2558	0.2525	0.2621	0.2670	Ave		0.2536			0.1000	6.2		20.0			
Methyl iodide	0.4263 0.4671	0.4537 0.4452	0.4414	0.4691	0.4628	Ave		0.4522				3.4		20.0			
Carbon disulfide	0.6592 0.7282	0.6881 0.6934	0.6636	0.7292	0.7115	Ave		0.6962			0.1000	4.1		20.0			
Methyl acetate	8.7050 9.1432	8.0756 9.3005	8.7296	8.2006	7.0968	Ave		8.4645			0.1000	8.9		20.0			
Allyl chloride	0.4589 0.4587	0.4514 0.4442	0.4246	0.4652	0.4563	Ave		0.4513				3.0		20.0			
Methylene Chloride	0.2481 0.2794	0.2749 0.2683	0.2572	0.2797	0.2780	Ave		0.2694			0.1000	4.6		20.0			
t-Butyl alcohol	1.0096 1.0682	1.1595 0.8930	1.1662	1.1599	1.1163	Ave		1.0818				9.4		20.0			
Acrylonitrile	2.5952 4.8609	4.7395 4.9642	4.4206	4.5792	4.0677	Ave		4.3182				18.9		20.0			
Methyl tert-butyl ether	0.5266 0.6097	0.5807 0.5882	0.5531	0.6069	0.6043	Ave		0.5814			0.1000	5.4		20.0			
trans-1,2-Dichloroethene	0.2623 0.3005	0.2878 0.2946	0.2788	0.3030	0.2953	Ave		0.2889			0.1000	4.9		20.0			
n-Hexane	0.3849 0.4227	0.3999 0.4054	0.3819	0.4182	0.4164	Ave		0.4042				4.0		20.0			
1,1-Dichloroethane	0.4886 0.5634	0.5501 0.5553	0.5126	0.5538	0.5563	Ave		0.5400			0.2000	5.2		20.0			
di-Isopropyl ether	0.8535 0.9560	0.9006 0.9387	0.8798	0.9481	0.9560	Ave		0.9190				4.5		20.0			
2-Chloro-1,3-butadiene	0.4022 0.4636	0.4317 0.4607	0.4113	0.4594	0.4584	Ave		0.4410				5.9		20.0			
Ethyl t-butyl ether	0.7690 0.8422	0.8029 0.8224	0.7792	0.8446	0.8304	Ave		0.8130				3.7		20.0			
2-Butanone (MEK)	4.5344 6.0368	5.6651 6.1255	5.8778	5.4913	5.2204	Ave		5.5645			0.1000	9.9		20.0			
cis-1,2-Dichloroethene	0.3052 0.3291	0.3106 0.3220	0.3019	0.3266	0.3258	Ave		0.3173			0.1000	3.5		20.0			
2,2-Dichloropropane	0.4080 0.4688	0.4528 0.4668	0.4314	0.4725	0.4666	Ave		0.4524				5.3		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.: 410-99372-1 Analy Batch No.: 274149

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 16:51 Calibration End Date: 07/11/2022 18:52 Calibration ID: 40553

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	1.0525 1.6328	1.3219 1.5249	1.4750	1.5063	1.4751	Ave		1.4269				13.2		20.0			
Methacrylonitrile	4.5018 6.5489	7.1162 6.8274	6.5565	6.0351	5.5456	Ave		6.1616				14.5		20.0			
Bromochloromethane	0.1301 0.1308	0.1200 0.1275	0.1187	0.1299	0.1305	Ave		0.1268				4.1		20.0			
Tetrahydrofuran	1.2863 1.6785	1.6222 1.7068	1.7892	1.5815	1.4719	Ave		1.5909				10.5		20.0			
Chloroform	0.4541 0.5291	0.5277 0.5209	0.4810	0.5263	0.5271	Ave		0.5095			0.2000	5.8		20.0			
1,1,1-Trichloroethane	0.4522 0.4958	0.4661 0.4815	0.4504	0.4871	0.4862	Ave		0.4742			0.1000	3.8		20.0			
Cyclohexane	0.5094 0.5608	0.5380 0.5462	0.5117	0.5568	0.5426	Ave		0.5379			0.1000	3.8		20.0			
1,1-Dichloropropene	0.4167 0.4429	0.4207 0.4385	0.4059	0.4401	0.4359	Ave		0.4287				3.3		20.0			
Carbon tetrachloride	0.3749 0.4331	0.3920 0.4280	0.3926	0.4228	0.4271	Ave		0.4101			0.1000	5.6		20.0			
Isobutyl alcohol	0.3269 0.3867	0.3610 0.3137	0.3554	0.3695	0.3565	Ave		0.3528				7.1		20.0			
Benzene	1.1897 1.2999	1.2346 1.2702	1.1980	1.2787	1.2755	Ave		1.2495			0.5000	3.4		20.0			
1,2-Dichloroethane	0.2669 0.2773	0.2742 0.2690	0.2543	0.2762	0.2772	Ave		0.2708			0.1000	3.1		20.0			
t-Amyl methyl ether	0.6173 0.7276	0.6973 0.7095	0.6683	0.7088	0.7201	Ave		0.6927				5.5		20.0			
n-Heptane	0.4682 0.4523	0.4498 0.4336	0.4226	0.4328	0.4374	Ave		0.4424				3.5		20.0			
n-Butanol	0.2883 0.3287	0.2355 0.2501	0.3090	0.3539	0.3464	Ave		0.3017				15.3		20.0			
Trichloroethene	0.3182 0.3421	0.3246 0.3379	0.3124	0.3332	0.3357	Ave		0.3292			0.2000	3.3		20.0			
Methylcyclohexane	0.5298 0.5805	0.5438 0.5550	0.5350	0.5691	0.5738	Ave		0.5553			0.1000	3.6		20.0			
1,2-Dichloropropane	0.2859 0.3269	0.3148 0.3229	0.2995	0.3227	0.3229	Ave		0.3137			0.1000	4.9		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.: 410-99372-1 Analy Batch No.: 274149

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 16:51 Calibration End Date: 07/11/2022 18:52 Calibration ID: 40553

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	7.9673 13.751	13.725 14.205	13.051	12.020	11.199	Ave		12.274				17.7		20.0			
1,4-Dioxane	+++++ 0.0586	0.0835 +++++	0.0840	0.0865	0.0793	Ave		0.0784			0.0050	14.5		20.0			
Dibromomethane	0.1301 0.1344	0.1301 0.1318	0.1240	0.1298	0.1340	Ave		0.1306				2.7		20.0			
Bromodichloromethane	0.3400 0.3712	0.3425 0.3650	0.3280	0.3610	0.3632	Ave		0.3530			0.2000	4.5		20.0			
2-Nitropropane	2.4865 3.3083	3.3456 3.3399	3.1361	2.9608	2.7261	Ave		3.0433				11.0		20.0			
cis-1,3-Dichloropropene	0.3880 0.4741	0.4274 0.4691	0.4088	0.4607	0.4718	Ave		0.4429			0.2000	7.8		20.0			
4-Methyl-2-pentanone (MIBK)	11.162 15.918	17.688 16.156	16.577	14.434	13.643	Ave		15.082			0.1000	14.5		20.0			
Toluene	0.8901 0.9385	0.9089 0.9125	0.8572	0.9277	0.9282	Ave		0.9090			0.4000	3.1		20.0			
trans-1,3-Dichloropropene	0.3614 0.4103	0.3692 0.4040	0.3649	0.3966	0.4037	Ave		0.3871			0.1000	5.4		20.0			
Ethyl methacrylate	0.2654 0.3179	0.2797 0.3081	0.2847	0.3037	0.3174	Ave		0.2967				6.8		20.0			
1,1,2-Trichloroethane	0.2326 0.2169	0.2081 0.2116	0.2023	0.2148	0.2209	Ave		0.2153			0.1000	4.5		20.0			
Tetrachloroethene	0.3952 0.4333	0.4290 0.4232	0.4029	0.4275	0.4264	Ave		0.4197			0.2000	3.5		20.0			
1,3-Dichloropropane	0.3559 0.3853	0.3661 0.3746	0.3576	0.3741	0.3845	Ave		0.3711				3.2		20.0			
2-Hexanone	6.9530 10.879	11.395 11.116	10.721	9.7750	9.2405	Ave		10.011			0.1000	15.5		20.0			
Dibromochloromethane	0.2584 0.2823	0.2522 0.2783	0.2474	0.2686	0.2783	Ave		0.2665				5.2		20.0			
1,2-Dibromoethane (EDB)	0.1601 0.2117	0.2006 0.2052	0.1867	0.2071	0.2093	Ave		0.1972			0.1000	9.3		20.0			
1-Chlorohexane	0.6023 0.5639	0.5613 0.5424	0.5361	0.5700	0.5563	Ave		0.5617				3.8		20.0			
Chlorobenzene	0.9385 0.9973	0.9603 0.9758	0.9243	0.9876	0.9954	Ave		0.9684			0.5000	2.9		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.: 410-99372-1 Analy Batch No.: 274149

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 16:51 Calibration End Date: 07/11/2022 18:52 Calibration ID: 40553

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	0.3211 0.3472	0.3234 0.3401	0.3097	0.3357	0.3483	Ave		0.3322				4.4		20.0			
Ethylbenzene	1.7083 1.8388	1.7359 1.7937	1.6923	1.8276	1.8295	Ave		1.7752			0.1000	3.5		20.0			
m&p-Xylene	0.6472 0.7031	0.6800 0.6834	0.6340	0.6912	0.6984	Ave		0.6768			0.1000	3.9		20.0			
o-Xylene	0.6202 0.6776	0.6474 0.6663	0.6238	0.6758	0.6684	Ave		0.6542			0.3000	3.7		20.0			
Styrene	0.9408 1.1299	1.0366 1.1046	1.0051	1.0969	1.1155	Ave		1.0613			0.3000	6.6		20.0			
Bromoform	0.1367 0.1677	0.1415 0.1668	0.1411	0.1578	0.1633	Ave		0.1536			0.1000	8.7		20.0			
Isopropylbenzene	1.6512 1.8462	1.7520 1.8070	1.6637	1.8290	1.8339	Ave		1.7690			0.1000	4.6		20.0			
1,1,2,2-Tetrachloroethane	0.4176 0.4696	0.4600 0.4516	0.4398	0.4858	0.4790	Ave		0.4576			0.3000	5.2		20.0			
Bromobenzene	0.6575 0.7070	0.6763 0.6801	0.6672	0.6993	0.7077	Ave		0.6850				2.9		20.0			
trans-1,4-Dichloro-2-butene	3.7180 5.7724	5.6507 6.0271	5.4339	5.0155	4.8649	Ave		5.2118				14.9		20.0			
1,2,3-Trichloropropane	0.1026 0.1162	0.1237 0.1124	0.1067	0.1237	0.1190	Ave		0.1149				7.1		20.0			
N-Propylbenzene	3.5065 3.9790	3.8348 3.8071	3.6449	3.9948	3.9727	Ave		3.8200				4.9		20.0			
2-Chlorotoluene	0.6876 0.7601	0.7303 0.7386	0.7115	0.7522	0.7654	Ave		0.7351				3.8		20.0			
1,3,5-Trimethylbenzene	2.4679 2.7533	2.6657 2.6501	2.5649	2.7895	2.7584	Ave		2.6643				4.4		20.0			
4-Chlorotoluene	0.6611 0.7662	0.7575 0.7464	0.7041	0.7583	0.7730	Ave		0.7381				5.5		20.0			
tert-Butylbenzene	0.5358 0.6306	0.5945 0.5803	0.5855	0.6004	0.5969	Ave		0.5892				4.8		20.0			
Pentachloroethane	0.3720 0.4466	0.3700 0.4318	0.3906	0.4463	0.4393	Ave		0.4138				8.4		20.0			
1,2,4-Trimethylbenzene	2.5049 2.7823	2.7162 2.7057	2.5558	2.7691	2.7848	Ave		2.6884				4.2		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.: 410-99372-1 Analy Batch No.: 274149

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 16:51 Calibration End Date: 07/11/2022 18:52 Calibration ID: 40553

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	3.3622 3.5869	3.4962 3.4314	3.3383	3.6286	3.5806	Ave		3.4892				3.3		20.0			
1,3-Dichlorobenzene	1.3649 1.4559	1.4354 1.4133	1.3234	1.4769	1.4596	Ave		1.4185			0.6000	3.9		20.0			
p-Isopropyltoluene	2.8662 3.0741	3.0004 2.9480	2.8503	3.1152	3.0827	Ave		2.9910				3.6		20.0			
1,4-Dichlorobenzene	1.3842 1.4450	1.4191 1.3948	1.3216	1.4520	1.4378	Ave		1.4078			0.5000	3.2		20.0			
1,2,3-Trimethylbenzene	1.1564 1.1744	1.1515 1.1295	1.0721	1.1696	1.1691	Ave		1.1461				3.1		20.0			
Benzyl chloride	0.1688 0.2024	0.1696 0.1972	0.1763	0.1917	0.1966	Ave		0.1861				7.6		20.0			
n-Butylbenzene	1.4789 1.5654	1.4558 1.5059	1.4358	1.5738	1.5521	Ave		1.5097				3.7		20.0			
1,2-Dichlorobenzene	1.2365 1.2987	1.2434 1.2492	1.1807	1.2880	1.3003	Ave		1.2567			0.4000	3.4		20.0			
1,2-Dibromo-3-Chloropropane	0.0414 0.0672	0.0536 0.0637	0.0554	0.0719	0.0696	Ave		0.0604			0.0500	18.0		20.0			
1,3,5-Trichlorobenzene	1.0362 1.1307	1.1093 1.0819	1.0701	1.1682	1.1264	Ave		1.1033				4.0		20.0			
1,2,4-Trichlorobenzene	0.8703 0.9596	0.9079 0.9056	0.8932	1.0010	0.9655	Ave		0.9290			0.2000	5.0		20.0			
Hexachlorobutadiene	0.5602 0.4200	0.4949 0.3905	0.4298	0.4426	0.4204	Ave		0.4512				12.8		20.0			
Naphthalene	1.4351 1.5595	1.4872 1.4130	1.4298	1.6005	1.5752	Ave		1.5000				5.2		20.0			
1,2,3-Trichlorobenzene	0.7394 0.8082	0.8042 0.7280	0.7753	0.8483	0.8176	Ave		0.7887				5.5		20.0			
Dibromofluoromethane (Surr)	0.2516 0.2536	0.2535 0.2519	0.2512	0.2563	0.2536	Ave		0.2531				0.7		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0468 0.0461	0.0463 0.0460	0.0450	0.0464	0.0467	Ave		0.0462				1.3		20.0			
Toluene-d8 (Surr)	1.2501 1.2244	1.2259 1.2138	1.2140	1.2235	1.2119	Ave		1.2234				1.1		20.0			
4-Bromofluorobenzene (Surr)	0.4975 0.5017	0.4934 0.4963	0.4930	0.4941	0.5005	Ave		0.4966				0.7		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1 Analy Batch No.: 274149

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 16:51 Calibration End Date: 07/11/2022 18:52 Calibration ID: 40553

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-274149/18	Copy_HL11X18.D
Level 2	IC 410-274149/17	HL11X17.D
Level 3	IC 410-274149/16	HL11X16.D
Level 4	IC 410-274149/15	HL11X15.D
Level 5	IC 410-274149/14	HL11X14.D
Level 6	ICIS 410-274149/13	HL11X13.D
Level 7	IC 410-274149/12	HL11X12.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	12093 675132	29441 1638876	59403	133086	330210	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	15861 824161	35764 2042758	71922	171365	421301	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	16912 767941	32434 1903361	70198	157585	372846	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	14783 834299	34329 2077605	73466	171314	417386	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	11545 574869	25582 1409920	49078	115842	287601	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	9347 495285	22322 1230005	43768	101707	249635	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	21148 1114554	47783 2768929	94716	226294	552979	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	17796 1030019	41511 2531940	87411	204745	509232	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	7722 426652	17231 1025975	36780	86711	211984	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 123a	FB	Ave	14120 780220	34976 1919633	67338	158543	390670	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd 10	Ave	56027 2963738	126498 7020232	251826	590053	1505959	10.0 500	25.0 1250	50.0	100	250
1,1-Dichloroethene	FB	Ave	9714 570272	26778 1377428	51047	111716	280143	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBAd 10	Ave	19892	31750	56977	123401	339789	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.: 410-99372-1 Analy Batch No.: 274149

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 16:51 Calibration End Date: 07/11/2022 18:52 Calibration ID: 40553

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
			600215	1311669				100	250			
Freon 113	FB	Ave	9385 563286	24601 1363934	51449	106489	281165	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl iodide	FB	Ave	17782 972304	46089 2373600	89934	190590	487298	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon disulfide	FB	Ave	27494 1515951	69895 3696914	135219	296255	749209	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd 10	Ave	4449 185370	6605 450003	15201	35316	85854	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	19139 954854	45854 2368143	86514	188981	480474	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	10350 581663	27920 1430268	52410	113641	292795	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd 10	Ave	10320 433119	18967 864137	40615	99901	270086	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd 10	Ave	3316 246376	9691 600481	19244	49301	123022	0.500 25.0	1.25 62.5	2.50	5.00	12.5
Methyl tert-butyl ether	FB	Ave	21966 1269252	58986 3136251	112695	246579	636323	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	10942 625545	29230 1570843	56807	123103	310962	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	16053 879832	40616 2161687	77822	169913	438476	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	20381 1172891	55872 2960872	104448	225005	585799	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	35599 1989982	91474 5004930	179260	385192	1006753	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	16777 965073	43848 2456305	83795	186653	482679	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	32074 1753246	81551 4384857	158776	343121	874477	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone (MEK)	TBAd 10	Ave	23175	46335	102351	236486	631533	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.: 410-99372-1 Analy Batch No.: 274149

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 16:51 Calibration End Date: 07/11/2022 18:52 Calibration ID: 40553

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
			1223902	2963836				100	250			
cis-1,2-Dichloroethene	FB	Ave	12731 685145	31554 1716580	61506	132683	343086	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	17016 975977	45990 2488997	87898	191971	491314	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Propionitrile	TBAd 10	Ave	10758 662067	21624 1475682	51370	129739	356903	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd 10	Ave	23008 1327716	58203 3303445	114169	259901	670885	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	5425 272299	12193 679591	24178	52761	137430	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd 10	Ave	3287 170150	6634 412918	15578	34053	89030	1.00 50.0	2.50 125	5.00	10.0	25.0
Chloroform	FB	Ave	18941 1101450	53597 2777171	98008	213834	555095	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	18862 1032101	47344 2567338	91770	197900	511965	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	21247 1167343	54650 2912163	104255	226192	571420	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	17380 922066	42736 2338039	82705	178784	459004	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	15638 901500	39816 2281907	79987	171753	449741	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	TBAd 10	Ave	8353 391967	14765 759018	30946	79569	215626	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	49624 2705977	125402 6772180	244107	519476	1343156	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	11134 577317	27855 1434259	51817	112224	291944	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	25747 1514685	70827 3782869	136162	287948	758276	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	19527	45690	86111	175823	460581	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.: 410-99372-1 Analy Batch No.: 274149

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 16:51 Calibration End Date: 07/11/2022 18:52 Calibration ID: 40553

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
			941472	2311911				10.0	25.0			
n-Butanol	TBAd 10	Ave	12895 583025	16852 1058699	47075	133360	366680	17.5 875	43.8 2188	87.5	175	438
Trichloroethene	FB	Ave	13274 712234	32976 1801642	63655	135366	353455	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	22098 1208386	55236 2958874	109016	231199	604203	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	11924 680594	31975 1721801	61027	131100	340026	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl methacrylate	TBAd 10	Ave	4072 278786	11226 687315	22726	51766	135474	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBAd 10	Ave	+++++ 59377	3415 +++++	7312	18622	47977	+++++ 500	25.0 +++++	50.0	100	250
Dibromomethane	FB	Ave	5425 279827	13211 702912	25263	52719	141139	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromodichloromethane	FB	Ave	14182 772695	34786 1945893	66840	146679	382494	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBAd 10	Ave	6354 335366	13682 808003	27305	63753	164896	1.00 50.0	2.50 125	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	16185 987001	43415 2501036	83305	187149	496791	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone (MIBK)	TBAd 10	Ave	57049 3227118	144667 7816948	288664	621615	1650404	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd 5	Ave	32116 1751935	81056 4396923	154507	336595	872692	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd 5	Ave	13040 765868	32928 1946661	65774	143896	379506	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd 5	Ave	9577	24949	51321	110202	298452	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.: 410-99372-1 Analy Batch No.: 274149

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 16:51 Calibration End Date: 07/11/2022 18:52 Calibration ID: 40553

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
			593374	1484677				10.0	25.0			
1,1,2-Trichloroethane	CBZd 5	Ave	8392 404842	18556 1019488	36462	77953	207686	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd 5	Ave	14261 808937	38259 2039197	72632	155095	400926	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd 5	Ave	12843 719249	32646 1804958	64455	135730	361499	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBAd 10	Ave	35536 2205566	93203 5378469	186685	420963	1117872	2.00 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd 5	Ave	9323 526982	22493 1341031	44590	97440	261621	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane (EDB)	CBZd 5	Ave	5776 395194	17888 988803	33650	75141	196751	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd 5	Ave	21731 1052702	50063 2613557	96628	206815	522985	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chlorobenzene	CBZd 5	Ave	33865 1861729	85642 4701939	166598	358343	935813	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd 5	Ave	11585 648069	28846 1638763	55816	121792	327478	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd 5	Ave	61642 3432722	154814 8643404	305034	663103	1720096	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd 5	Ave	46705 2625259	121299 6586157	228568	501557	1313262	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd 5	Ave	22378	57735	112434	245217	628447	0.200	0.500	1.00	2.00	5.00

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1 Analy Batch No.: 274149

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 16:51 Calibration End Date: 07/11/2022 18:52 Calibration ID: 40553

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
			1264897	3210811				10.0	25.0			
Styrene	CBZd 5	Ave	33946 2109282	92450 5322551	181168	398001	1048801	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd 5	Ave	4931 313065	12623 803826	25426	57271	153558	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd 5	Ave	59579 3446508	156254 8707027	299877	663631	1724175	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	8357 493678	22404 1230941	43665	96897	250852	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd 4	Ave	13159 743305	32939 1853897	66242	139476	370570	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	TBAd 10	Ave	19002 1170298	46217 2916204	94622	215992	588527	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	2053 122178	6024 306446	10598	24664	62318	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd 4	Ave	70175 4183114	186777 10377351	361905	796754	2080340	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd 4	Ave	13760 799066	35571 2013379	70640	150036	400793	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd 4	Ave	49390 2894539	129835 7223552	254672	556367	1444446	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd 4	Ave	13230 805513	36896 2034542	69914	151238	404813	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd 4	Ave	10722	28957	58136	119759	312596	0.200	0.500	1.00	2.00	5.00

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1 Analy Batch No.: 274149

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 16:51 Calibration End Date: 07/11/2022 18:52 Calibration ID: 40553

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
			662962	1581905				10.0	25.0			
Pentachloroethane	DCBd 4	Ave	7445 469487	18023 1176887	38784	89007	230027	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd 4	Ave	50131 2924954	132294 7375096	253767	552306	1458270	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd 4	Ave	67287 3770835	170282 9353447	331458	723734	1875046	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichlorobenzene	DCBd 4	Ave	27316 1530550	69911 3852445	131401	294576	764311	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd 4	Ave	57362 3231751	146134 8035560	283008	621334	1614275	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd 4	Ave	27701 1519120	69120 3801859	131226	289594	752898	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd 4	Ave	23143 1234652	56083 3078858	106449	233280	612197	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd 4	Ave	3379 212767	8260 537399	17500	38227	102930	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd 4	Ave	29597 1645635	70907 4104893	142558	313888	812754	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd 4	Ave	24746 1365343	60558 3405147	117234	256900	680916	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	829 70677	2609 173574	5499	14346	36445	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd 4	Ave	20738	54031	106250	233002	589869	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.: 410-99372-1 Analy Batch No.: 274149

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 16:51 Calibration End Date: 07/11/2022 18:52 Calibration ID: 40553

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
			1188689	2949107				10.0	25.0			
1,2,4-Trichlorobenzene	DCBd 4	Ave	17418 1008763	44220 2468365	88686	199643	505612	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd 4	Ave	11211 441537	24106 1064480	42671	88268	220140	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd 4	Ave	28721 1639471	72436 3851468	141968	319229	824852	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd 4	Ave	14798 849598	39169 1984437	76975	169189	428129	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	524666 527861	515062 537264	511791	520651	534194	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	97667 95893	94092 98178	91709	94159	98328	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd 5	Ave	2255316 2285826	2186651 2339533	2188271	2219533	2278814	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	897535 936498	880073 956657	888594	896459	941117	10.0 10.0	10.0 10.0	10.0	10.0	10.0

Curve Type Legend
Ave = Average ISTD

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1 Analy Batch No.: 274149

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 16:51 Calibration End Date: 07/11/2022 18:52 Calibration ID: 40553

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-274149/18	Copy_HL11X18.D
Level 2	IC 410-274149/17	HL11X17.D
Level 3	IC 410-274149/16	HL11X16.D
Level 4	IC 410-274149/15	HL11X15.D
Level 5	IC 410-274149/14	HL11X14.D
Level 6	ICIS 410-274149/13	HL11X13.D
Level 7	IC 410-274149/12	HL11X12.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	-5.3 0.3	-5.4	-4.8	6.9	2.4	5.9	50 30	30	30	30	30	30
Chloromethane	-0.9 -0.2	-8.2	-8.0	9.9	4.3	3.2	50 30	30	30	30	30	30
1,3-Butadiene	11.9 -1.5	-11.9	-4.9	7.0	-2.3	1.8	50 30	30	30	30	30	30
Vinyl chloride	-6.8 2.5	-11.1	-5.2	10.9	4.2	5.4	50 30	30	30	30	30	30
Bromomethane	3.7 -0.9	-5.6	-9.8	6.8	2.3	3.5	50 30	30	30	30	30	30
Chloroethane	-2.9 0.0	-4.7	-6.9	8.5	2.8	3.1	50 30	30	30	30	30	30
Dichlorofluoromethane	-0.8 1.6	-8.0	-9.1	8.9	2.7	4.7	50 30	30	30	30	30	30
Trichlorofluoromethane	-7.3 3.2	-11.2	-6.8	9.5	5.1	7.5	50 30	30	30	30	30	30
Ethyl ether	-3.8 0.0	-11.9	-6.2	10.9	4.6	6.5	50 30	30	30	30	30	30
Freon 123a	-5.6 0.4	-3.9	-7.8	8.9	3.5	4.6	50 30	30	30	30	30	30
Acrolein	-20.2 5.6	12.6	5.3	-0.3	-9.4	6.4	50 30	30	30	30	30	30
1,1-Dichloroethene	-10.4 -0.7	1.4	-3.7	5.7	2.3	5.3	50 30	30	30	30	30	30
Acetone	21.7 -15.3	21.4	2.3	-10.4	-12.2	-7.4	50 30	30	30	30	30	30
Freon 113	-11.3 0.9	-4.5	-0.4	3.4	5.3	6.7	50 30	30	30	30	30	30

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1 Analy Batch No.: 274149

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 16:51 Calibration End Date: 07/11/2022 18:52 Calibration ID: 40553

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	-5.7 -1.6	0.3	-2.4	3.7	2.3	3.3	50 30	30	30	30	30	30
Carbon disulfide	-5.3 -0.4	-1.2	-4.7	4.7	2.2	4.6	50 30	30	30	30	30	30
Methyl acetate	2.8 9.9	-4.6	3.1	-3.1	-16.2	8.0	50 30	30	30	30	30	30
Allyl chloride	1.7 -1.6	0.0	-5.9	3.1	1.1	1.6	50 30	30	30	30	30	30
Methylene Chloride	-7.9 -0.4	2.0	-4.5	3.8	3.2	3.7	50 30	30	30	30	30	30
t-Butyl alcohol	-6.7 -17.5	7.2	7.8	7.2	3.2	-1.3	50 30	30	30	30	30	30
Acrylonitrile	-39.9 15.0	9.8	2.4	6.0	-5.8	12.6	50 30	30	30	30	30	30
Methyl tert-butyl ether	-9.4 1.2	-0.1	-4.9	4.4	3.9	4.9	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-9.2 2.0	-0.4	-3.5	4.9	2.2	4.0	50 30	30	30	30	30	30
n-Hexane	-4.8 0.3	-1.1	-5.5	3.5	3.0	4.6	50 30	30	30	30	30	30
1,1-Dichloroethane	-9.5 2.8	1.9	-5.1	2.6	3.0	4.3	50 30	30	30	30	30	30
di-Isopropyl ether	-7.1 2.1	-2.0	-4.3	3.2	4.0	4.0	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-8.8 4.5	-2.1	-6.8	4.2	3.9	5.1	50 30	30	30	30	30	30
Ethyl t-butyl ether	-5.4 1.2	-1.2	-4.1	3.9	2.1	3.6	50 30	30	30	30	30	30
2-Butanone (MEK)	-18.5 10.1	1.8	5.6	-1.3	-6.2	8.5	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-3.8 1.5	-2.1	-4.9	2.9	2.7	3.7	50 30	30	30	30	30	30
2,2-Dichloropropane	-9.8 3.2	0.1	-4.6	4.4	3.1	3.6	50 30	30	30	30	30	30
Propionitrile	-26.2 6.9	-7.4	3.4	5.6	3.4	14.4	50 30	30	30	30	30	30
Methacrylonitrile	-26.9 10.8	15.5	6.4	-2.1	-10.0	6.3	50 30	30	30	30	30	30

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1 Analy Batch No.: 274149

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 16:51 Calibration End Date: 07/11/2022 18:52 Calibration ID: 40553

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	2.6 0.5	-5.3	-6.4	2.4	2.9	3.2	50 30	30	30	30	30	30
Tetrahydrofuran	-19.1 7.3	2.0	12.5	-0.6	-7.5	5.5	50 30	30	30	30	30	30
Chloroform	-10.9 2.2	3.6	-5.6	3.3	3.5	3.9	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-4.6 1.5	-1.7	-5.0	2.7	2.5	4.6	50 30	30	30	30	30	30
Cyclohexane	-5.3 1.5	0.0	-4.9	3.5	0.9	4.2	50 30	30	30	30	30	30
1,1-Dichloropropene	-2.8 2.3	-1.9	-5.3	2.7	1.7	3.3	50 30	30	30	30	30	30
Carbon tetrachloride	-8.6 4.4	-4.4	-4.3	3.1	4.2	5.6	50 30	30	30	30	30	30
Isobutyl alcohol	-7.4 -11.1	2.3	0.7	4.7	1.0	9.6	50 30	30	30	30	30	30
Benzene	-4.8 1.7	-1.2	-4.1	2.3	2.1	4.0	50 30	30	30	30	30	30
1,2-Dichloroethane	-1.4 -0.6	1.3	-6.1	2.0	2.4	2.4	50 30	30	30	30	30	30
t-Amyl methyl ether	-10.9 2.4	0.7	-3.5	2.3	4.0	5.0	50 30	30	30	30	30	30
n-Heptane	5.8 -2.0	1.7	-4.5	-2.2	-1.1	2.2	50 30	30	30	30	30	30
n-Butanol	-4.4 -17.1	-21.9	2.4	17.3	14.8	8.9	50 30	30	30	30	30	30
Trichloroethene	-3.3 2.7	-1.4	-5.1	1.2	2.0	3.9	50 30	30	30	30	30	30
Methylcyclohexane	-4.6 -0.1	-2.1	-3.6	2.5	3.3	4.5	50 30	30	30	30	30	30
1,2-Dichloropropane	-8.9 3.0	0.4	-4.5	2.9	2.9	4.2	50 30	30	30	30	30	30
Methyl methacrylate	-35.1 15.7	11.8	6.3	-2.1	-8.8	12.0	50 30	30	30	30	30	30
1,4-Dioxane	+++++ +++++	6.6	7.2	10.3	1.2	-25.3		50	30	30	30	30
Dibromomethane	-0.4 0.9	-0.4	-5.1	-0.6	2.6	2.9	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.: 410-99372-1 Analy Batch No.: 274149

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 16:51 Calibration End Date: 07/11/2022 18:52 Calibration ID: 40553

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	-3.7 3.4	-3.0	-7.1	2.3	2.9	5.2	50 30	30	30	30	30	30
2-Nitropropane	-18.3 9.7	9.9	3.0	-2.7	-10.4	8.7	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-12.4 5.9	-3.5	-7.7	4.0	6.5	7.1	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	-26.0 7.1	17.3	9.9	-4.3	-9.5	5.5	50 30	30	30	30	30	30
Toluene	-2.1 0.4	0.0	-5.7	2.1	2.1	3.2	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-6.7 4.4	-4.6	-5.7	2.4	4.3	6.0	50 30	30	30	30	30	30
Ethyl methacrylate	-10.5 3.8	-5.7	-4.0	2.4	7.0	7.1	50 30	30	30	30	30	30
1,1,2-Trichloroethane	8.0 -1.7	-3.4	-6.0	-0.2	2.6	0.7	50 30	30	30	30	30	30
Tetrachloroethene	-5.8 0.8	2.2	-4.0	1.9	1.6	3.3	50 30	30	30	30	30	30
1,3-Dichloropropane	-4.1 0.9	-1.4	-3.7	0.8	3.6	3.8	50 30	30	30	30	30	30
2-Hexanone	-30.5 11.0	13.8	7.1	-2.4	-7.7	8.7	50 30	30	30	30	30	30
Dibromochloromethane	-3.0 4.4	-5.4	-7.2	0.8	4.4	5.9	50 30	30	30	30	30	30
1,2-Dibromoethane (EDB)	-18.8 4.0	1.7	-5.3	5.0	6.1	7.3	50 30	30	30	30	30	30
1-Chlorohexane	7.2 -3.4	-0.1	-4.6	1.5	-1.0	0.4	50 30	30	30	30	30	30
Chlorobenzene	-3.1 0.8	-0.8	-4.6	2.0	2.8	3.0	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-3.4 2.4	-2.6	-6.8	1.0	4.9	4.5	50 30	30	30	30	30	30
Ethylbenzene	-3.8 1.0	-2.2	-4.7	3.0	3.1	3.6	50 30	30	30	30	30	30
m&p-Xylene	-4.4 1.0	0.5	-6.3	2.1	3.2	3.9	50 30	30	30	30	30	30
o-Xylene	-5.2 1.9	-1.0	-4.7	3.3	2.2	3.6	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.: 410-99372-1 Analy Batch No.: 274149

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 16:51 Calibration End Date: 07/11/2022 18:52 Calibration ID: 40553

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	-11.4 4.1	-2.3	-5.3	3.4	5.1	6.5	50 30	30	30	30	30	30
Bromoform	-11.0 8.6	-7.8	-8.1	2.8	6.4	9.2	50 30	30	30	30	30	30
Isopropylbenzene	-6.7 2.1	-1.0	-6.0	3.4	3.7	4.4	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-8.8 -1.3	0.5	-3.9	6.2	4.7	2.6	50 30	30	30	30	30	30
Bromobenzene	-4.0 -0.7	-1.3	-2.6	2.1	3.3	3.2	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-28.7 15.6	8.4	4.3	-3.8	-6.7	10.8	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-10.7 -2.2	7.6	-7.1	7.6	3.6	1.1	50 30	30	30	30	30	30
N-Propylbenzene	-8.2 -0.3	0.4	-4.6	4.6	4.0	4.2	50 30	30	30	30	30	30
2-Chlorotoluene	-6.5 0.5	-0.6	-3.2	2.3	4.1	3.4	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-7.4 -0.5	0.1	-3.7	4.7	3.5	3.3	50 30	30	30	30	30	30
4-Chlorotoluene	-10.4 1.1	2.6	-4.6	2.7	4.7	3.8	50 30	30	30	30	30	30
tert-Butylbenzene	-9.1 -1.5	0.9	-0.6	1.9	1.3	7.0	50 30	30	30	30	30	30
Pentachloroethane	-10.1 4.3	-10.6	-5.6	7.8	6.2	7.9	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-6.8 0.6	1.0	-4.9	3.0	3.6	3.5	50 30	30	30	30	30	30
sec-Butylbenzene	-3.6 -1.7	0.2	-4.3	4.0	2.6	2.8	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-3.8 -0.4	1.2	-6.7	4.1	2.9	2.6	50 30	30	30	30	30	30
p-Isopropyltoluene	-4.2 -1.4	0.3	-4.7	4.2	3.1	2.8	50 30	30	30	30	30	30
1,4-Dichlorobenzene	-1.7 -0.9	0.8	-6.1	3.1	2.1	2.6	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	0.9 -1.4	0.5	-6.5	2.1	2.0	2.5	50 30	30	30	30	30	30

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-99372-1 Analy Batch No.: 274149

SDG No.:

Instrument ID: 19094 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2022 16:51 Calibration End Date: 07/11/2022 18:52 Calibration ID: 40553

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	-9.3 6.0	-8.9	-5.3	3.0	5.6	8.8	50 30	30	30	30	30	30
n-Butylbenzene	-2.0 -0.2	-3.6	-4.9	4.2	2.8	3.7	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-1.6 -0.6	-1.1	-6.0	2.5	3.5	3.3	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-31.4 5.4	-11.3	-8.3	19.1	15.2	11.3	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-6.1 -1.9	0.5	-3.0	5.9	2.1	2.5	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-6.3 -2.5	-2.3	-3.9	7.7	3.9	3.3	50 30	30	30	30	30	30
Hexachlorobutadiene	24.2 -13.4	9.7	-4.7	-1.9	-6.8	-6.9	50 30	30	30	30	30	30
Naphthalene	-4.3 -5.8	-0.9	-4.7	6.7	5.0	4.0	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-6.2 -7.7	2.0	-1.7	7.6	3.7	2.5	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-0.6 -0.5	0.2	-0.8	1.3	0.2	0.2	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	1.4 -0.3	0.3	-2.5	0.4	1.1	-0.3	50 30	30	30	30	30	30
Toluene-d8 (Surr)	2.2 -0.8	0.2	-0.8	0.0	-0.9	0.1	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	0.2 -0.1	-0.7	-0.7	-0.5	0.8	1.0	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11X12.D
Lims ID: IC std7 25
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 11-Jul-2022 16:51:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052505-012
Operator ID: kas02648 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 12-Jul-2022 11:50:21 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1678

First Level Reviewer: UKAD Date: 12-Jul-2022 09:47:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.940	1.940	0.000	99	1638876	25.0	25.1	
6 Chloromethane	50	2.129	2.129	0.000	99	2042758	25.0	25.0	
8 Butadiene	39	2.245	2.245	0.000	91	1903361	25.0	24.6	
7 Vinyl chloride	62	2.245	2.251	-0.006	98	2077605	25.0	25.6	
9 Bromomethane	94	2.568	2.562	0.006	90	1409920	25.0	24.8	
10 Chloroethane	64	2.647	2.648	-0.001	100	1230005	25.0	25.0	
11 Dichlorofluoromethane	67	2.873	2.873	0.000	97	2768929	25.0	25.4	
13 Trichlorofluoromethane	101	2.952	2.952	0.000	98	2531940	25.0	25.8	
15 Ethyl ether	59	3.178	3.154	0.024	93	1025975	25.0	25.0	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.269	3.257	0.012	94	1919633	25.0	25.1	
17 Acrolein	56	3.342	3.349	-0.007	99	7020232	1250.0	1320.1	
18 1,1-Dichloroethene	96	3.489	3.489	0.000	98	1377428	25.0	24.8	
19 Acetone	43	3.501	3.507	-0.006	100	1311669	250.0	211.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.531	3.519	0.012	93	1363934	25.0	25.2	
21 Isopropyl alcohol	45	3.623	3.660	-0.037	96	406572	500.0	NQ	M
22 Iodomethane	142	3.678	3.672	0.006	98	2373600	25.0	24.6	
23 Ethyl bromide	108	3.708	3.708	0.000	98	1255606	25.0	25.8	
24 Carbon disulfide	76	3.788	3.788	0.000	98	3696914	25.0	24.9	
26 Methyl acetate	43	3.897	3.910	-0.013	99	450003	25.0	27.5	M
27 3-Chloro-1-propene	41	3.952	3.952	0.000	94	2368143	25.0	24.6	
29 Methylene Chloride	84	4.129	4.129	0.000	92	1430268	25.0	24.9	
* 28 t-Butyl alcohol-d10 (IS)	65	4.135	4.135	0.000	0	96770	50.0	50.0	
30 2-Methyl-2-propanol	59	4.257	4.275	-0.018	99	864137	500.0	412.7	
31 Acrylonitrile	53	4.446	4.464	-0.018	99	600481	62.5	71.9	
32 Methyl tert-butyl ether	73	4.525	4.519	0.006	94	3136251	25.0	25.3	
33 trans-1,2-Dichloroethene	96	4.543	4.544	-0.001	100	1570843	25.0	25.5	
34 Hexane	57	4.964	4.970	-0.006	92	2161687	25.0	25.1	
35 1,1-Dichloroethane	63	5.202	5.202	0.000	96	2960872	25.0	25.7	
37 Isopropyl ether	45	5.257	5.263	-0.006	96	5004930	25.0	25.5	
38 2-Chloro-1,3-butadiene	53	5.306	5.306	0.000	90	2456305	25.0	26.1	
39 Tert-butyl ethyl ether	59	5.793	5.793	0.000	98	4384857	25.0	25.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.982	5.988	-0.006	100	2963836	250.0	275.2	
42 cis-1,2-Dichloroethene	96	6.031	6.031	0.000	82	1716580	25.0	25.4	
43 2,2-Dichloropropane	77	6.055	6.055	0.000	86	2488997	25.0	25.8	
45 Propionitrile	54	6.068	6.074	-0.006	98	1475682	500.0	534.3	
S 40 1,2-Dichloroethene, Total	100				0			50.9	
47 Methacrylonitrile	67	6.287	6.293	-0.006	92	3303445	250.0	277.0	
48 Chlorobromomethane	128	6.366	6.360	0.006	94	679591	25.0	25.1	
49 Tetrahydrofuran	71	6.366	6.372	-0.006	77	412918	125.0	134.1	
50 Chloroform	83	6.519	6.513	0.006	93	2777171	25.0	25.6	
$ 51 Dibromofluoromethane (Surr)	113	6.732	6.726	0.006	94	537264	10.0	9.95	
52 1,1,1-Trichloroethane	97	6.756	6.757	-0.001	98	2567338	25.0	25.4	
53 Cyclohexane	56	6.860	6.860	0.000	90	2912163	25.0	25.4	
55 1,1-Dichloropropene	75	6.958	6.958	0.000	98	2338039	25.0	25.6	
56 Carbon tetrachloride	117	6.970	6.964	0.006	97	2281907	25.0	26.1	
57 Isobutyl alcohol	41	7.092	7.098	-0.006	95	759018	1250.0	1111.5	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.183	7.189	-0.006	0	98178	10.0	9.97	
59 Benzene	78	7.220	7.220	0.000	96	6772180	25.0	25.4	
60 1,2-Dichloroethane	62	7.293	7.293	0.000	97	1434259	25.0	24.8	
62 Tert-amyl methyl ether	73	7.421	7.415	0.006	99	3782869	25.0	25.6	
* 65 Fluorobenzene (IS)	96	7.628	7.628	0.000	99	2132698	10.0	10.0	
64 n-Heptane	43	7.647	7.653	-0.007	92	2311911	25.0	24.5	
66 n-Butanol	56	7.982	7.988	-0.006	87	1058699	2187.5	1813.2	
67 Trichloroethene	95	8.116	8.116	0.000	98	1801642	25.0	25.7	
68 Methylcyclohexane	83	8.433	8.433	0.000	94	2958874	25.0	25.0	
70 1,2-Dichloropropane	63	8.451	8.451	0.000	98	1721801	25.0	25.7	
69 2-ethoxy-2-methyl butane	87	8.463	8.451	0.012	92	2422099	25.0	25.8	
71 Methyl methacrylate	69	8.530	8.537	-0.007	91	687315	25.0	28.9	
72 1,4-Dioxane	88	8.537	8.549	-0.012	29	73635	1250.0	485.5	M
73 Dibromomethane	93	8.561	8.555	0.006	96	702912	25.0	25.2	
75 Dichlorobromomethane	83	8.793	8.799	-0.006	100	1945893	25.0	25.8	
76 2-Nitropropane	41	9.061	9.067	-0.006	97	808003	125.0	137.2	
79 1-Bromo-2-chloroethane	63	9.195	9.195	0.000	98	1602309	25.0	26.1	
80 cis-1,3-Dichloropropene	75	9.347	9.354	-0.007	97	2501036	25.0	26.5	
81 4-Methyl-2-pentanone (MIBK)	43	9.518	9.518	0.000	96	7816948	250.0	267.8	
$ 82 Toluene-d8 (Surr)	98	9.664	9.665	-0.001	93	2339533	10.0	9.92	
83 Toluene	92	9.744	9.744	0.000	98	4396923	25.0	25.1	
85 trans-1,3-Dichloropropene	75	10.000	10.000	0.000	92	1946661	25.0	26.1	
S 84 1,3-Dichloropropene, Total	100				0			52.6	
86 Ethyl methacrylate	69	10.061	10.067	-0.006	89	1484677	25.0	26.0	
87 1,1,2-Trichloroethane	97	10.207	10.207	0.000	89	1019488	25.0	24.6	
88 Tetrachloroethene	166	10.298	10.299	-0.001	97	2039197	25.0	25.2	
89 1,3-Dichloropropane	76	10.372	10.372	0.000	89	1804958	25.0	25.2	
91 2-Hexanone	43	10.420	10.420	0.000	97	5378469	250.0	277.6	
93 Chlorodibromomethane	129	10.591	10.591	0.000	90	1341031	25.0	26.1	
94 Ethylene Dibromide	107	10.701	10.701	0.000	99	988803	25.0	26.0	
* 97 Chlorobenzene-d5 (IS)	117	11.134	11.134	0.000	85	1927449	10.0	10.0	
96 1-Chlorohexane	91	11.146	11.146	0.000	97	2613557	25.0	24.1	
98 Chlorobenzene	112	11.164	11.164	0.000	99	4701939	25.0	25.2	
99 1,1,1,2-Tetrachloroethane	131	11.243	11.243	0.000	97	1638763	25.0	25.6	
S 95 Xylenes, Total	106				0			76.0	
100 Ethylbenzene	91	11.249	11.250	-0.001	98	8643404	25.0	25.3	
101 m-Xylene & p-Xylene	106	11.365	11.365	0.000	0	6586157	50.0	50.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 o-Xylene	106	11.694	11.695	-0.001	97	3210811	25.0	25.5	
103 Styrene	104	11.713	11.713	0.000	95	5322551	25.0	26.0	
104 Bromoform	173	11.871	11.871	0.000	98	803826	25.0	27.2	
105 Isopropylbenzene	105	11.999	11.999	0.000	96	8707027	25.0	25.5	
$ 108 4-Bromofluorobenzene (Surr)	95	12.140	12.140	0.000	92	956657	10.0	10.0	
109 1,1,2,2-Tetrachloroethane	83	12.243	12.243	0.000	91	1230941	25.0	24.7	
111 Bromobenzene	156	12.261	12.262	-0.001	96	1853897	25.0	24.8	
110 trans-1,4-Dichloro-2-butene	53	12.268	12.268	0.000	90	2916204	250.0	289.1	
112 1,2,3-Trichloropropane	110	12.286	12.292	-0.006	79	306446	25.0	24.5	
113 N-Propylbenzene	91	12.329	12.329	0.000	99	10377351	25.0	24.9	
114 2-Chlorotoluene	126	12.402	12.402	0.000	97	2013379	25.0	25.1	
115 1,3,5-Trimethylbenzene	105	12.463	12.463	0.000	94	7223552	25.0	24.9	
116 4-Chlorotoluene	126	12.493	12.493	0.000	97	2034542	25.0	25.3	
118 tert-Butylbenzene	134	12.706	12.707	-0.001	93	1581905	25.0	24.6	
119 Pentachloroethane	167	12.737	12.737	0.000	95	1176887	25.0	26.1	
120 1,2,4-Trimethylbenzene	105	12.749	12.749	0.000	97	7375096	25.0	25.2	
121 sec-Butylbenzene	105	12.871	12.871	0.000	94	9353447	25.0	24.6	
122 1,3-Dichlorobenzene	146	12.969	12.969	0.000	98	3852445	25.0	24.9	
123 4-Isopropyltoluene	119	12.975	12.975	0.000	97	8035560	25.0	24.6	
* 124 1,4-Dichlorobenzene-d4	152	13.024	13.024	0.000	94	1090322	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.042	13.042	0.000	94	3801859	25.0	24.8	
126 1,2,3-Trimethylbenzene	120	13.054	13.054	0.000	98	3078858	25.0	24.6	
127 Benzyl chloride	126	13.115	13.121	-0.006	98	537399	25.0	26.5	
129 p-Diethylbenzene	119	13.176	13.176	0.000	91	4705394	25.0	25.0	
130 n-Butylbenzene	92	13.267	13.267	0.000	96	4104893	25.0	24.9	
131 1,2-Dichlorobenzene	146	13.304	13.304	0.000	99	3405147	25.0	24.9	
134 1,2-Dibromo-3-Chloropropane	155	13.847	13.847	0.000	96	173574	25.0	26.4	
135 1,3,5-Trichlorobenzene	180	13.968	13.969	-0.001	98	2949107	25.0	24.5	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	2468365	25.0	24.4	
137 Hexachlorobutadiene	225	14.474	14.475	-0.001	95	1064480	25.0	21.6	
138 Naphthalene	128	14.572	14.572	0.000	97	3851468	25.0	23.5	
139 1,2,3-Trichlorobenzene	180	14.712	14.712	0.000	96	1984437	25.0	23.1	
140 2-Methylnaphthalene	142	15.334	15.340	-0.006	93	2004576	25.0	20.4	
194 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

NQ - Not Quantifiable

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00049	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00101	Amount Added: 25.00	Units: uL	
MSV_LL_#2_826_00053	Amount Added: 25.00	Units: uL	
MSV_LLcentISS_00005	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 12-Jul-2022 11:50:23 Chrom Revision: 2.3 08-Jul-2022 13:26:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11X12.D

Injection Date: 11-Jul-2022 16:51:30 Instrument ID: 19094 Operator ID: kas02648

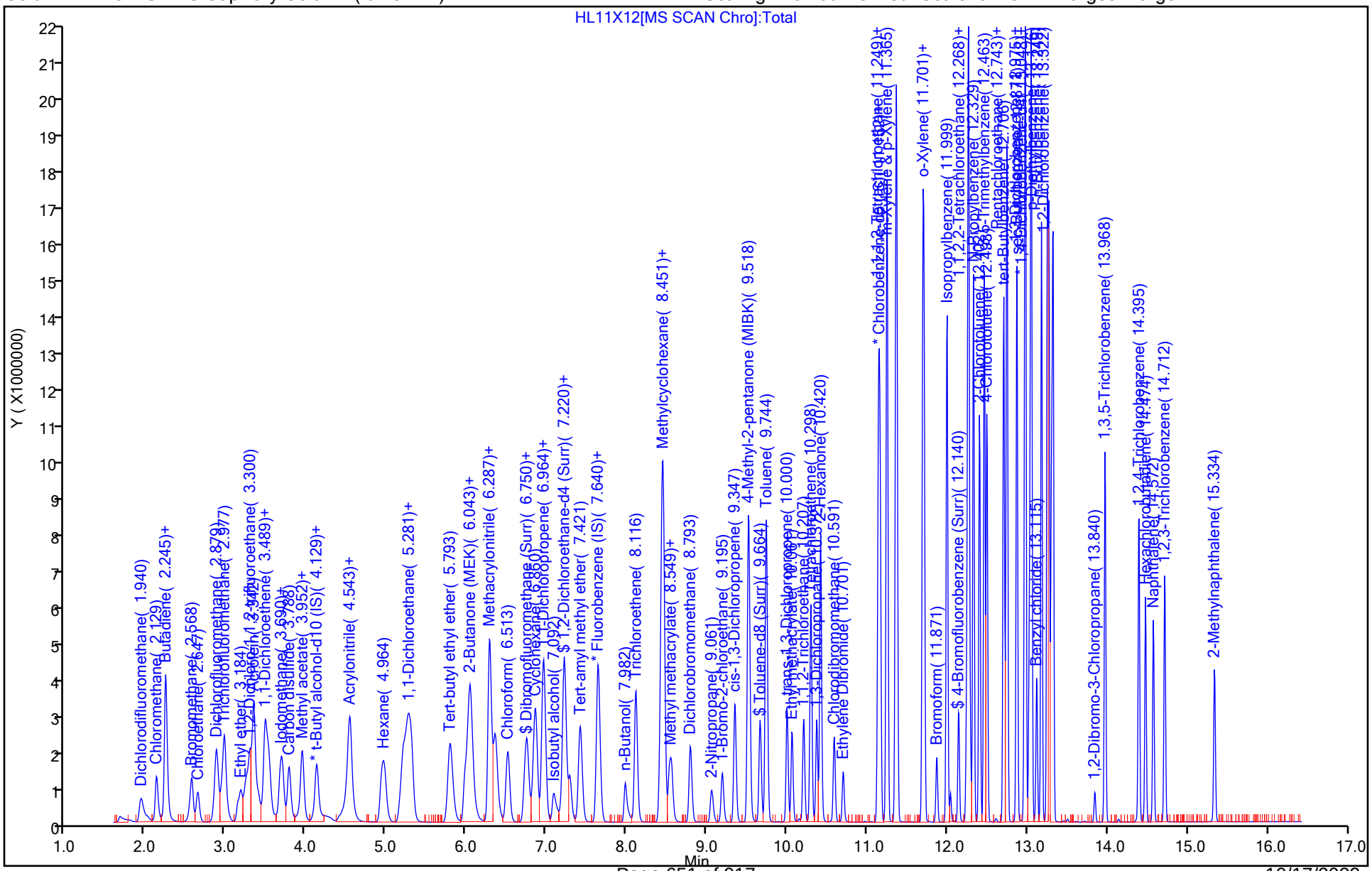
Lims ID: IC std7 25 Worklist Smp#: 12

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: MSV_19094_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

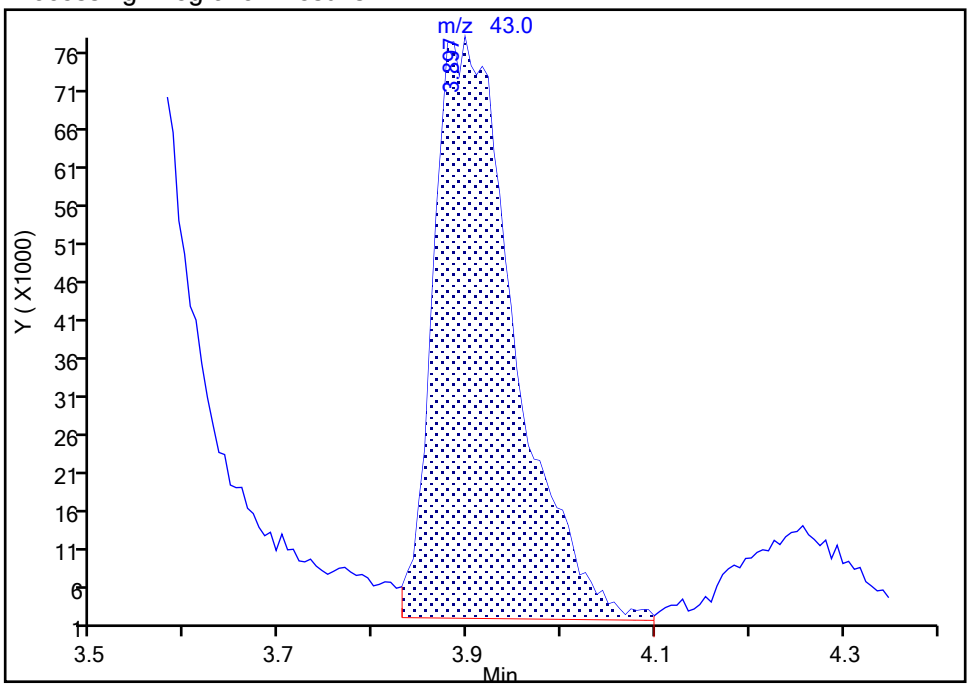
Data File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11X12.D				
Injection Date:	11-Jul-2022 16:51:30	Instrument ID:	19094		
Lims ID:	IC std7 25				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

26 Methyl acetate, CAS: 79-20-9

Signal: 1

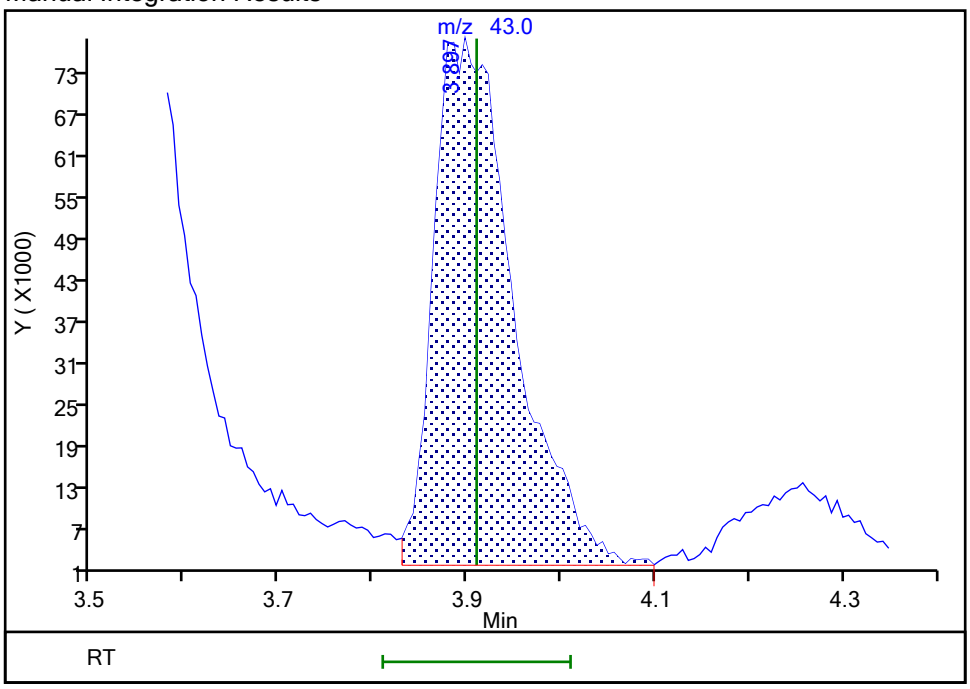
Processing Integration Results

RT: 3.90
Area: 455739
Amount: 24.981822
Amount Units: ug/l



Manual Integration Results

RT: 3.90
Area: 450003
Amount: 27.469157
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 09:48:02
Audit Action: Assigned New Baseline Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

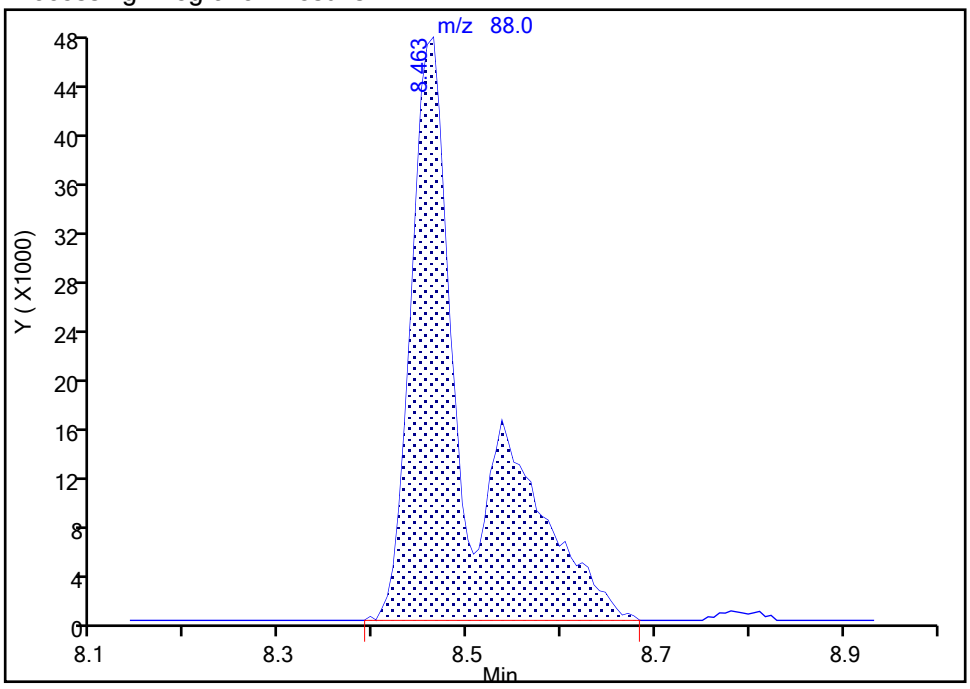
Data File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11X12.D				
Injection Date:	11-Jul-2022 16:51:30	Instrument ID:	19094		
Lims ID:	IC std7 25				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

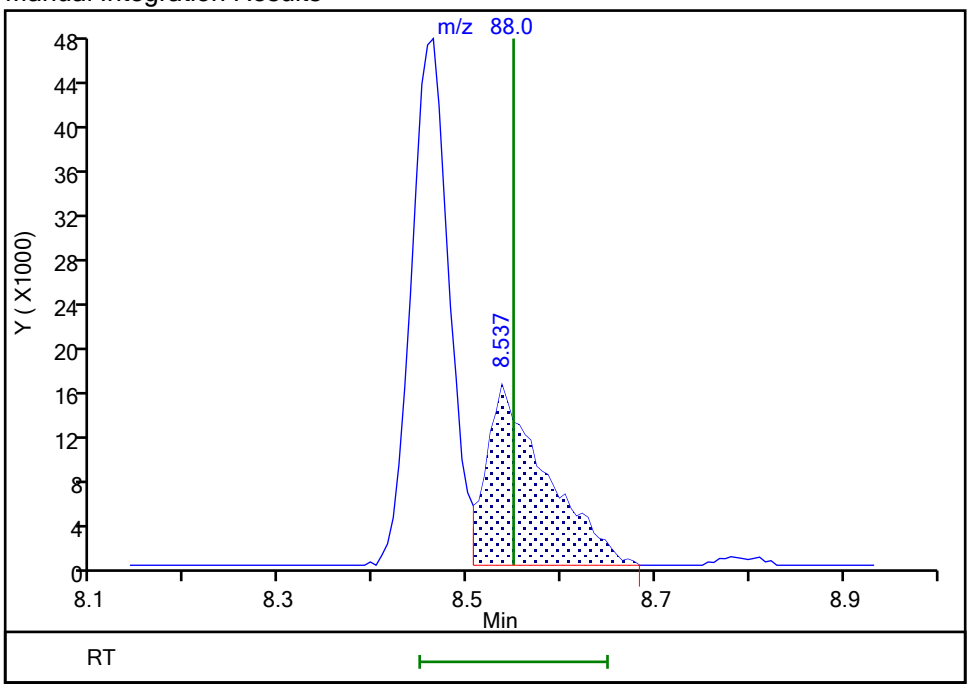
Processing Integration Results

RT: 8.46
Area: 206080
Amount: 1481.3689
Amount Units: ug/l



Manual Integration Results

RT: 8.54
Area: 73635
Amount: 485.4549
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 09:48:29

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11X13.D
Lims ID: ICIS 10
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 11-Jul-2022 17:11:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052505-013
Operator ID: kas02648 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 12-Jul-2022 11:50:31 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1678

First Level Reviewer: UKAD Date: 12-Jul-2022 09:47:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.934	1.934	0.000	99	675132	10.0	10.6	
6 Chloromethane	50	2.123	2.123	0.000	99	824161	10.0	10.3	
8 Butadiene	39	2.239	2.239	0.000	90	767941	10.0	10.2	
7 Vinyl chloride	62	2.245	2.245	0.000	97	834299	10.0	10.5	
9 Bromomethane	94	2.556	2.556	0.000	90	574869	10.0	10.3	
10 Chloroethane	64	2.641	2.641	0.000	100	495285	10.0	10.3	
11 Dichlorofluoromethane	67	2.867	2.867	0.000	97	1114554	10.0	10.5	
13 Trichlorofluoromethane	101	2.946	2.946	0.000	98	1030019	10.0	10.8	
15 Ethyl ether	59	3.172	3.172	0.000	93	426652	10.0	10.7	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.263	3.263	0.000	96	780220	10.0	10.5	
17 Acrolein	56	3.336	3.336	0.000	99	2963738	500.0	532.0	
18 1,1-Dichloroethene	96	3.483	3.483	0.000	98	570272	10.0	10.5	
19 Acetone	43	3.501	3.501	0.000	100	600215	100.0	92.6	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.525	3.525	0.000	92	563286	10.0	10.7	
21 Isopropyl alcohol	45	3.641	3.641	0.000	100	238428	200.0	192.7	
22 Iodomethane	142	3.672	3.672	0.000	98	972304	10.0	10.3	
23 Ethyl bromide	108	3.696	3.696	0.000	98	514602	10.0	10.8	
24 Carbon disulfide	76	3.775	3.775	0.000	98	1515951	10.0	10.5	
26 Methyl acetate	43	3.879	3.879	0.000	96	185370	10.0	10.8	M
27 3-Chloro-1-propene	41	3.940	3.940	0.000	95	954854	10.0	10.2	
29 Methylene Chloride	84	4.123	4.123	0.000	92	581663	10.0	10.4	
* 28 t-Butyl alcohol-d10 (IS)	65	4.123	4.123	0.000	0	101370	50.0	50.0	
30 2-Methyl-2-propanol	59	4.245	4.245	0.000	99	433119	200.0	197.5	
31 Acrylonitrile	53	4.434	4.434	0.000	99	246376	25.0	28.1	
32 Methyl tert-butyl ether	73	4.519	4.519	0.000	95	1269252	10.0	10.5	
33 trans-1,2-Dichloroethene	96	4.543	4.543	0.000	100	625545	10.0	10.4	
34 Hexane	57	4.958	4.958	0.000	92	879832	10.0	10.5	
35 1,1-Dichloroethane	63	5.196	5.196	0.000	95	1172891	10.0	10.4	
37 Isopropyl ether	45	5.257	5.257	0.000	96	1989982	10.0	10.4	
38 2-Chloro-1,3-butadiene	53	5.299	5.299	0.000	89	965073	10.0	10.5	
39 Tert-butyl ethyl ether	59	5.787	5.787	0.000	98	1753246	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
41 2-Butanone (MEK)	43	5.982	5.982	0.000	100	1223902	100.0	108.5	
42 cis-1,2-Dichloroethene	96	6.025	6.025	0.000	82	685145	10.0	10.4	
43 2,2-Dichloropropane	77	6.049	6.049	0.000	87	975977	10.0	10.4	
45 Propionitrile	54	6.061	6.061	0.000	99	662067	200.0	228.9	
47 Methacrylonitrile	67	6.287	6.287	0.000	91	1327716	100.0	106.3	
48 Chlorobromomethane	128	6.360	6.360	0.000	94	272299	10.0	10.3	
49 Tetrahydrofuran	71	6.366	6.366	0.000	77	170150	50.0	52.8	
50 Chloroform	83	6.513	6.513	0.000	92	1101450	10.0	10.4	
$ 51 Dibromofluoromethane (Surr)	113	6.726	6.726	0.000	94	527861	10.0	10.0	
52 1,1,1-Trichloroethane	97	6.750	6.750	0.000	98	1032101	10.0	10.5	
53 Cyclohexane	56	6.854	6.854	0.000	90	1167343	10.0	10.4	
55 1,1-Dichloropropene	75	6.958	6.958	0.000	98	922066	10.0	10.3	
56 Carbon tetrachloride	117	6.964	6.964	0.000	96	901500	10.0	10.6	
57 Isobutyl alcohol	41	7.086	7.086	0.000	95	391967	500.0	548.0	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.189	7.189	0.000	0	95893	10.0	9.97	
59 Benzene	78	7.220	7.220	0.000	96	2705977	10.0	10.4	
60 1,2-Dichloroethane	62	7.287	7.287	0.000	96	577317	10.0	10.2	
62 Tert-amyl methyl ether	73	7.415	7.415	0.000	99	1514685	10.0	10.5	
* 65 Fluorobenzene (IS)	96	7.628	7.628	0.000	99	2081655	10.0	10.0	
64 n-Heptane	43	7.647	7.647	0.000	90	941472	10.0	10.2	
66 n-Butanol	56	7.982	7.982	0.000	87	583025	875.0	953.2	
67 Trichloroethene	95	8.110	8.110	0.000	98	712234	10.0	10.4	
68 Methylcyclohexane	83	8.433	8.433	0.000	94	1208386	10.0	10.5	
70 1,2-Dichloropropane	63	8.445	8.445	0.000	97	680594	10.0	10.4	
69 2-ethoxy-2-methyl butane	87	8.457	8.457	0.000	93	967634	10.0	10.6	
71 Methyl methacrylate	69	8.530	8.530	0.000	93	278786	10.0	11.2	
72 1,4-Dioxane	88	8.537	8.537	0.000	35	59377	500.0	373.7	
73 Dibromomethane	93	8.555	8.555	0.000	97	279827	10.0	10.3	
75 Dichlorobromomethane	83	8.793	8.793	0.000	100	772695	10.0	10.5	
76 2-Nitropropane	41	9.061	9.061	0.000	98	335366	50.0	54.4	
79 1-Bromo-2-chloroethane	63	9.189	9.189	0.000	98	645473	10.0	10.8	
80 cis-1,3-Dichloropropene	75	9.347	9.347	0.000	97	987001	10.0	10.7	
81 4-Methyl-2-pentanone (MIBK)	43	9.518	9.518	0.000	96	3227118	100.0	105.5	
$ 82 Toluene-d8 (Surr)	98	9.664	9.664	0.000	93	2285826	10.0	10.0	
83 Toluene	92	9.744	9.744	0.000	98	1751935	10.0	10.3	
85 trans-1,3-Dichloropropene	75	10.000	10.000	0.000	92	765868	10.0	10.6	
86 Ethyl methacrylate	69	10.061	10.061	0.000	90	593374	10.0	10.7	
87 1,1,2-Trichloroethane	97	10.207	10.207	0.000	89	404842	10.0	10.1	
88 Tetrachloroethene	166	10.298	10.298	0.000	97	808937	10.0	10.3	
89 1,3-Dichloropropane	76	10.372	10.372	0.000	89	719249	10.0	10.4	
91 2-Hexanone	43	10.420	10.420	0.000	97	2205566	100.0	108.7	
93 Chlorodibromomethane	129	10.591	10.591	0.000	90	526982	10.0	10.6	
94 Ethylene Dibromide	107	10.701	10.701	0.000	99	395194	10.0	10.7	
* 97 Chlorobenzene-d5 (IS)	117	11.134	11.134	0.000	87	1866823	10.0	10.0	
96 1-Chlorohexane	91	11.146	11.146	0.000	97	1052702	10.0	10.0	
98 Chlorobenzene	112	11.164	11.164	0.000	95	1861729	10.0	10.3	
99 1,1,1,2-Tetrachloroethane	131	11.243	11.243	0.000	95	648069	10.0	10.5	
100 Ethylbenzene	91	11.249	11.249	0.000	98	3432722	10.0	10.4	
101 m-Xylene & p-Xylene	106	11.365	11.365	0.000	0	2625259	20.0	20.8	
102 o-Xylene	106	11.695	11.695	0.000	96	1264897	10.0	10.4	
103 Styrene	104	11.713	11.713	0.000	95	2109282	10.0	10.6	
104 Bromoform	173	11.871	11.871	0.000	98	313065	10.0	10.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 Isopropylbenzene	105	11.999	11.999	0.000	96	3446508	10.0	10.4	
$ 108 4-Bromofluorobenzene (Surr)	95	12.140	12.140	0.000	92	936498	10.0	10.1	
109 1,1,2,2-Tetrachloroethane	83	12.243	12.243	0.000	92	493678	10.0	10.3	
111 Bromobenzene	156	12.255	12.255	0.000	96	743305	10.0	10.3	
110 trans-1,4-Dichloro-2-butene	53	12.268	12.268	0.000	91	1170298	100.0	110.8	
112 1,2,3-Trichloropropane	110	12.286	12.286	0.000	80	122178	10.0	10.1	
113 N-Propylbenzene	91	12.329	12.329	0.000	99	4183114	10.0	10.4	
114 2-Chlorotoluene	126	12.402	12.402	0.000	97	799066	10.0	10.3	
115 1,3,5-Trimethylbenzene	105	12.463	12.463	0.000	94	2894539	10.0	10.3	
116 4-Chlorotoluene	126	12.493	12.493	0.000	97	805513	10.0	10.4	
118 tert-Butylbenzene	134	12.707	12.707	0.000	93	662962	10.0	10.7	
119 Pentachloroethane	167	12.737	12.737	0.000	89	469487	10.0	10.8	
120 1,2,4-Trimethylbenzene	105	12.749	12.749	0.000	97	2924954	10.0	10.3	
121 sec-Butylbenzene	105	12.871	12.871	0.000	94	3770835	10.0	10.3	
122 1,3-Dichlorobenzene	146	12.969	12.969	0.000	98	1530550	10.0	10.3	
123 4-Isopropyltoluene	119	12.975	12.975	0.000	97	3231751	10.0	10.3	
* 124 1,4-Dichlorobenzene-d4	152	13.024	13.024	0.000	94	1051287	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.042	13.042	0.000	94	1519120	10.0	10.3	
126 1,2,3-Trimethylbenzene	120	13.054	13.054	0.000	98	1234652	10.0	10.2	
127 Benzyl chloride	126	13.115	13.115	0.000	98	212767	10.0	10.9	
129 p-Diethylbenzene	119	13.176	13.176	0.000	91	1885445	10.0	10.4	
130 n-Butylbenzene	92	13.267	13.267	0.000	97	1645635	10.0	10.4	
131 1,2-Dichlorobenzene	146	13.304	13.304	0.000	99	1365343	10.0	10.3	
134 1,2-Dibromo-3-Chloropropane	155	13.847	13.847	0.000	90	70677	10.0	11.1	
135 1,3,5-Trichlorobenzene	180	13.968	13.968	0.000	98	1188689	10.0	10.2	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	1008763	10.0	10.3	
137 Hexachlorobutadiene	225	14.474	14.474	0.000	95	441537	10.0	9.31	
138 Naphthalene	128	14.572	14.572	0.000	97	1639471	10.0	10.4	
139 1,2,3-Trichlorobenzene	180	14.718	14.718	0.000	96	849598	10.0	10.2	
140 2-Methylnaphthalene	142	15.334	15.334	0.000	92	1005842	10.0	10.6	
194 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_00049	Amount Added: 10.00	Units: uL	
MSV_LL_GAS826_00101	Amount Added: 10.00	Units: uL	
MSV_LL_#2_826_00053	Amount Added: 10.00	Units: uL	
MSV_LLcentISS_00005	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 12-Jul-2022 11:50:32 Chrom Revision: 2.3 08-Jul-2022 13:26:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11X13.D

Injection Date: 11-Jul-2022 17:11:30 Instrument ID: 19094 Operator ID: kas02648

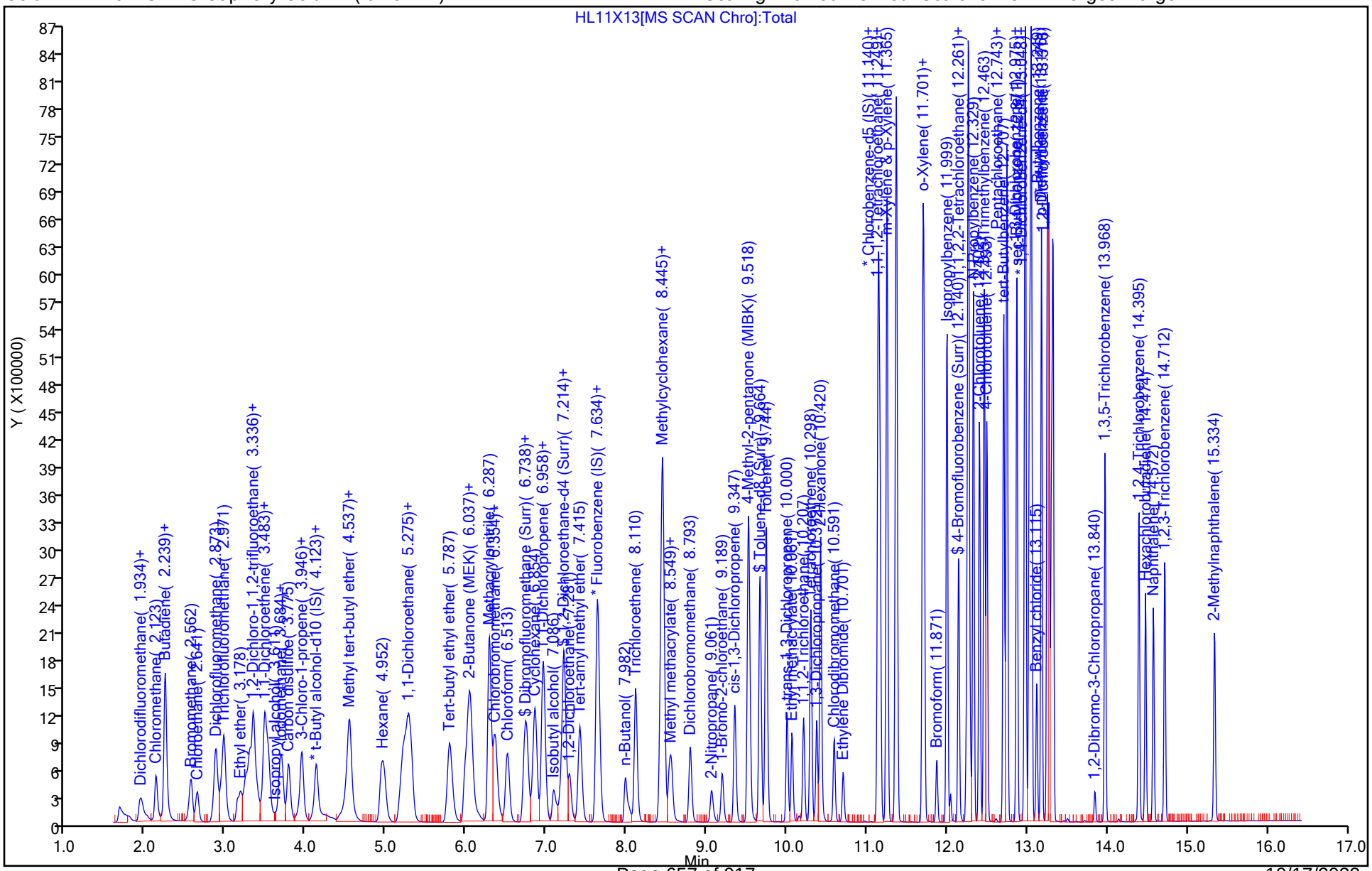
Lims ID: ICIS 10 Worklist Smp#: 13

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 13

Method: MSV_19094_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

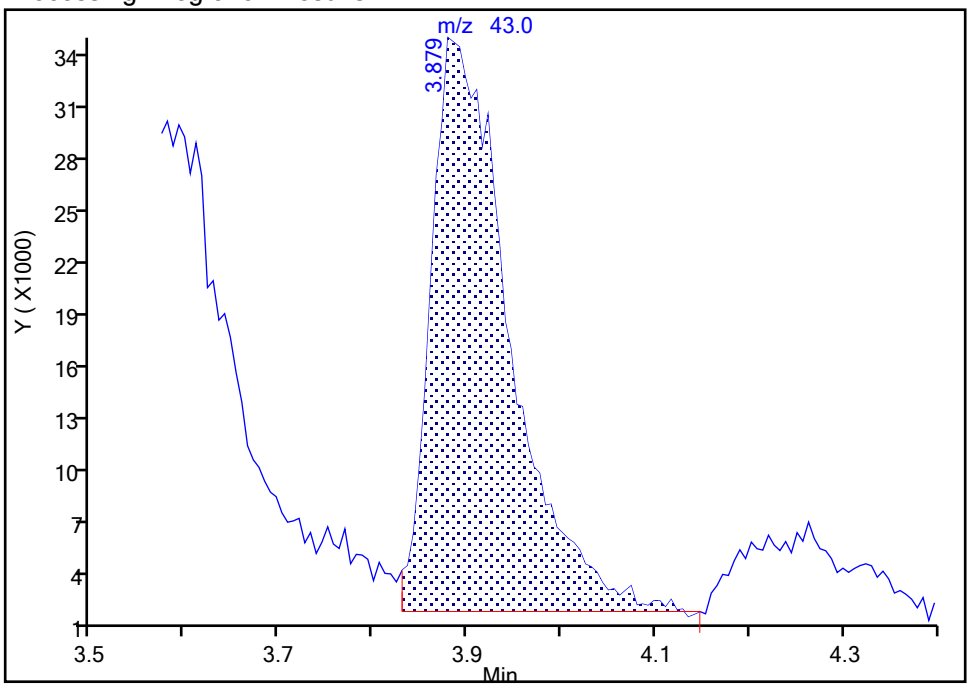
Data File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11X13.D
Injection Date: 11-Jul-2022 17:11:30 Instrument ID: 19094
Lims ID: ICIS 10
Client ID:
Operator ID: kas02648 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

26 Methyl acetate, CAS: 79-20-9

Signal: 1

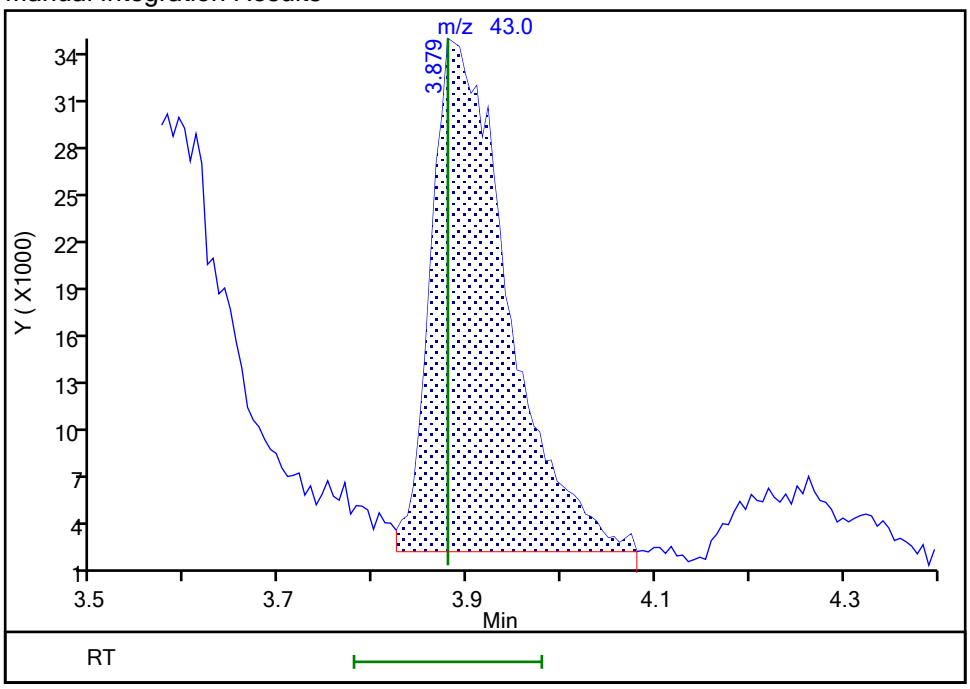
Processing Integration Results

RT: 3.88
Area: 191239
Amount: 10.070600
Amount Units: ug/l



Manual Integration Results

RT: 3.88
Area: 185370
Amount: 10.801913
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 09:49:27
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11X14.D
Lims ID: IC std5 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 11-Jul-2022 17:31:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052505-014
Operator ID: kas02648 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 12-Jul-2022 11:50:46 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1678

First Level Reviewer: UKAD Date: 12-Jul-2022 09:51:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.934	1.934	0.000	99	330210	5.00	5.12	
6 Chloromethane	50	2.129	2.123	0.006	99	421301	5.00	5.21	
8 Butadiene	39	2.239	2.239	0.000	92	372846	5.00	4.88	
7 Vinyl chloride	62	2.245	2.245	0.000	98	417386	5.00	5.21	
9 Bromomethane	94	2.568	2.556	0.012	91	287601	5.00	5.12	
10 Chloroethane	64	2.641	2.641	0.000	99	249635	5.00	5.14	
11 Dichlorofluoromethane	67	2.873	2.867	0.006	97	552979	5.00	5.14	
13 Trichlorofluoromethane	101	2.946	2.946	0.000	97	509232	5.00	5.25	
15 Ethyl ether	59	3.178	3.172	0.006	91	211984	5.00	5.23	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.269	3.263	0.006	93	390670	5.00	5.17	
17 Acrolein	56	3.343	3.336	0.007	99	1505959	250.0	226.5	
18 1,1-Dichloroethene	96	3.483	3.483	0.000	98	280143	5.00	5.11	
19 Acetone	43	3.507	3.501	0.006	98	339789	50.0	43.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.532	3.525	0.007	92	281165	5.00	5.26	
21 Isopropyl alcohol	45	3.660	3.641	0.019	96	148640	100.0	109.1	
22 Iodomethane	142	3.678	3.672	0.006	98	487298	5.00	5.12	
23 Ethyl bromide	108	3.702	3.696	0.006	98	254488	5.00	5.29	
24 Carbon disulfide	76	3.788	3.775	0.013	99	749209	5.00	5.11	
26 Methyl acetate	43	3.903	3.879	0.024	97	85854	5.00	4.19	
27 3-Chloro-1-propene	41	3.952	3.940	0.012	95	480474	5.00	5.05	
29 Methylene Chloride	84	4.129	4.123	0.006	93	292795	5.00	5.16	
* 28 t-Butyl alcohol-d10 (IS)	65	4.123	4.123	0.000	0	120975	50.0	50.0	
30 2-Methyl-2-propanol	59	4.257	4.245	0.012	99	270086	100.0	103.2	
31 Acrylonitrile	53	4.452	4.434	0.018	98	123022	12.5	11.8	
32 Methyl tert-butyl ether	73	4.519	4.519	0.000	94	636323	5.00	5.20	
33 trans-1,2-Dichloroethene	96	4.544	4.543	0.001	99	310962	5.00	5.11	
34 Hexane	57	4.958	4.958	0.000	92	438476	5.00	5.15	
35 1,1-Dichloroethane	63	5.196	5.196	0.000	95	585799	5.00	5.15	
37 Isopropyl ether	45	5.257	5.257	0.000	96	1006753	5.00	5.20	
38 2-Chloro-1,3-butadiene	53	5.312	5.299	0.013	91	482679	5.00	5.20	
39 Tert-butyl ethyl ether	59	5.787	5.787	0.000	98	874477	5.00	5.11	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.982	5.982	0.000	100	631533	50.0	46.9	
42 cis-1,2-Dichloroethene	96	6.025	6.025	0.000	82	343086	5.00	5.13	
43 2,2-Dichloropropane	77	6.049	6.049	0.000	87	491314	5.00	5.16	
45 Propionitrile	54	6.068	6.061	0.007	99	356903	100.0	103.4	
S 40 1,2-Dichloroethene, Total	100				0			10.2	
47 Methacrylonitrile	67	6.293	6.287	0.006	91	670885	50.0	45.0	
48 Chlorobromomethane	128	6.360	6.360	0.000	93	137430	5.00	5.15	
49 Tetrahydrofuran	71	6.366	6.366	0.000	80	89030	25.0	23.1	
50 Chloroform	83	6.513	6.513	0.000	93	555095	5.00	5.17	
$ 51 Dibromofluoromethane (Surr)	113	6.726	6.726	0.000	94	534194	10.0	10.0	
52 1,1,1-Trichloroethane	97	6.750	6.750	0.000	98	511965	5.00	5.13	
53 Cyclohexane	56	6.854	6.854	0.000	90	571420	5.00	5.04	
55 1,1-Dichloropropene	75	6.958	6.958	0.000	98	459004	5.00	5.08	
56 Carbon tetrachloride	117	6.970	6.964	0.006	85	449741	5.00	5.21	
57 Isobutyl alcohol	41	7.092	7.086	0.006	95	215626	250.0	252.6	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.189	7.189	0.000	0	98328	10.0	10.1	
59 Benzene	78	7.220	7.220	0.000	97	1343156	5.00	5.10	
60 1,2-Dichloroethane	62	7.293	7.287	0.006	97	291944	5.00	5.12	
62 Tert-amyl methyl ether	73	7.415	7.415	0.000	99	758276	5.00	5.20	
* 65 Fluorobenzene (IS)	96	7.628	7.628	0.000	98	2106074	10.0	10.0	
64 n-Heptane	43	7.647	7.647	0.000	88	460581	5.00	4.94	
66 n-Butanol	56	7.988	7.982	0.006	87	366680	437.5	502.3	
67 Trichloroethene	95	8.116	8.110	0.006	98	353455	5.00	5.10	
68 Methylcyclohexane	83	8.433	8.433	0.000	93	604203	5.00	5.17	
70 1,2-Dichloropropane	63	8.451	8.445	0.006	85	340026	5.00	5.15	
69 2-ethoxy-2-methyl butane	87	8.457	8.457	0.000	90	477549	5.00	5.16	
71 Methyl methacrylate	69	8.531	8.530	0.001	90	135474	5.00	4.56	
72 1,4-Dioxane	88	8.543	8.537	0.006	33	47977	250.0	253.0	M
73 Dibromomethane	93	8.555	8.555	0.000	96	141139	5.00	5.13	
75 Dichlorobromomethane	83	8.793	8.793	0.000	100	382494	5.00	5.14	
76 2-Nitropropane	41	9.061	9.061	0.000	98	164896	25.0	22.4	
79 1-Bromo-2-chloroethane	63	9.195	9.189	0.006	98	314354	5.00	5.18	
80 cis-1,3-Dichloropropene	75	9.348	9.347	0.001	97	496791	5.00	5.33	
81 4-Methyl-2-pentanone (MIBK)	43	9.518	9.518	0.000	96	1650404	50.0	45.2	
$ 82 Toluene-d8 (Surr)	98	9.665	9.664	0.000	93	2278814	10.0	9.91	
83 Toluene	92	9.744	9.744	0.000	98	872692	5.00	5.11	
85 trans-1,3-Dichloropropene	75	10.000	10.000	0.000	92	379506	5.00	5.21	
S 84 1,3-Dichloropropene, Total	100				0			10.5	
86 Ethyl methacrylate	69	10.061	10.061	0.000	88	298452	5.00	5.35	
87 1,1,2-Trichloroethane	97	10.207	10.207	0.000	89	207686	5.00	5.13	
88 Tetrachloroethene	166	10.299	10.298	0.001	97	400926	5.00	5.08	
89 1,3-Dichloropropane	76	10.372	10.372	0.000	88	361499	5.00	5.18	
91 2-Hexanone	43	10.420	10.420	0.000	97	1117872	50.0	46.2	
93 Chlorodibromomethane	129	10.591	10.591	0.000	90	261621	5.00	5.22	
94 Ethylene Dibromide	107	10.701	10.701	0.000	99	196751	5.00	5.31	
* 97 Chlorobenzene-d5 (IS)	117	11.134	11.134	0.000	88	1880356	10.0	10.0	
96 1-Chlorohexane	91	11.146	11.146	0.000	98	522985	5.00	4.95	
98 Chlorobenzene	112	11.164	11.164	0.000	95	935813	5.00	5.14	
99 1,1,1,2-Tetrachloroethane	131	11.243	11.243	0.000	97	327478	5.00	5.24	
S 95 Xylenes, Total	106				0			15.4	
100 Ethylbenzene	91	11.250	11.249	0.001	98	1720096	5.00	5.15	
101 m-Xylene & p-Xylene	106	11.365	11.365	0.000	0	1313262	10.0	10.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 o-Xylene	106	11.695	11.695	0.001	97	628447	5.00	5.11	
103 Styrene	104	11.713	11.713	0.000	95	1048801	5.00	5.26	
104 Bromoform	173	11.871	11.871	0.000	98	153558	5.00	5.32	
105 Isopropylbenzene	105	11.999	11.999	0.000	96	1724175	5.00	5.18	
$ 108 4-Bromofluorobenzene (Surr)	95	12.140	12.140	0.000	92	941117	10.0	10.1	
109 1,1,2,2-Tetrachloroethane	83	12.243	12.243	0.000	92	250852	5.00	5.23	
111 Bromobenzene	156	12.262	12.255	0.007	96	370570	5.00	5.17	
110 trans-1,4-Dichloro-2-butene	53	12.268	12.268	0.000	91	588527	50.0	46.7	
112 1,2,3-Trichloropropane	110	12.286	12.286	0.000	80	62318	5.00	5.18	
113 N-Propylbenzene	91	12.329	12.329	0.000	99	2080340	5.00	5.20	
114 2-Chlorotoluene	126	12.402	12.402	0.000	97	400793	5.00	5.21	
115 1,3,5-Trimethylbenzene	105	12.463	12.463	0.000	94	1444446	5.00	5.18	
116 4-Chlorotoluene	126	12.493	12.493	0.000	97	404813	5.00	5.24	
118 tert-Butylbenzene	134	12.707	12.707	0.001	93	312596	5.00	5.07	
119 Pentachloroethane	167	12.737	12.737	0.000	92	230027	5.00	5.31	
120 1,2,4-Trimethylbenzene	105	12.749	12.749	0.000	97	1458270	5.00	5.18	
121 sec-Butylbenzene	105	12.871	12.871	0.000	94	1875046	5.00	5.13	
122 1,3-Dichlorobenzene	146	12.969	12.969	0.000	98	764311	5.00	5.14	
123 4-Isopropyltoluene	119	12.975	12.975	0.000	97	1614275	5.00	5.15	
* 124 1,4-Dichlorobenzene-d4	152	13.024	13.024	0.000	94	1047322	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.042	13.042	0.000	95	752898	5.00	5.11	
126 1,2,3-Trimethylbenzene	120	13.054	13.054	0.000	98	612197	5.00	5.10	
127 Benzyl chloride	126	13.121	13.115	0.006	98	102930	5.00	5.28	
129 p-Diethylbenzene	119	13.176	13.176	0.000	91	933626	5.00	5.16	
130 n-Butylbenzene	92	13.267	13.267	0.000	98	812754	5.00	5.14	
131 1,2-Dichlorobenzene	146	13.304	13.304	0.000	99	680916	5.00	5.17	
134 1,2-Dibromo-3-Chloropropane	155	13.847	13.847	0.000	89	36445	5.00	5.76	
135 1,3,5-Trichlorobenzene	180	13.969	13.968	0.001	98	589869	5.00	5.10	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	505612	5.00	5.20	
137 Hexachlorobutadiene	225	14.475	14.474	0.001	95	220140	5.00	4.66	
138 Naphthalene	128	14.572	14.572	0.000	97	824852	5.00	5.25	
139 1,2,3-Trichlorobenzene	180	14.712	14.718	-0.006	96	428129	5.00	5.18	
140 2-Methylnaphthalene	142	15.340	15.334	0.006	92	500575	5.00	5.29	
194 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_00049	Amount Added:	5.00	Units: uL	
MSV_LL_GAS826_00101	Amount Added:	5.00	Units: uL	
MSV_LL_#2_826_00053	Amount Added:	5.00	Units: uL	
MSV_LLcentISS_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 12-Jul-2022 11:50:47 Chrom Revision: 2.3 08-Jul-2022 13:26:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11X14.D

Injection Date: 11-Jul-2022 17:31:30 Instrument ID: 19094 Operator ID: kas02648

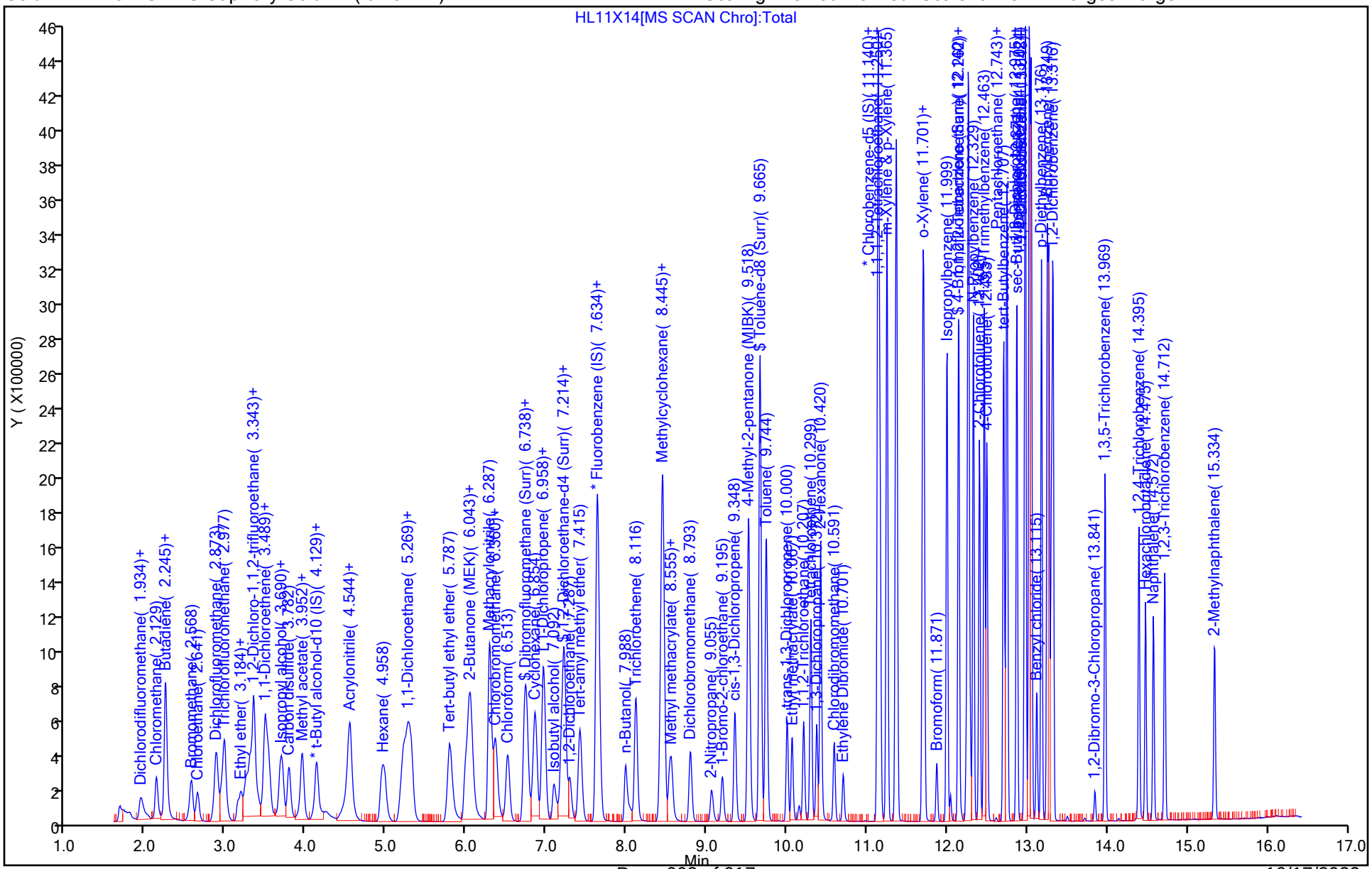
Lims ID: IC std5 5 Worklist Smp#: 14

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 14

Method: MSV_19094_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

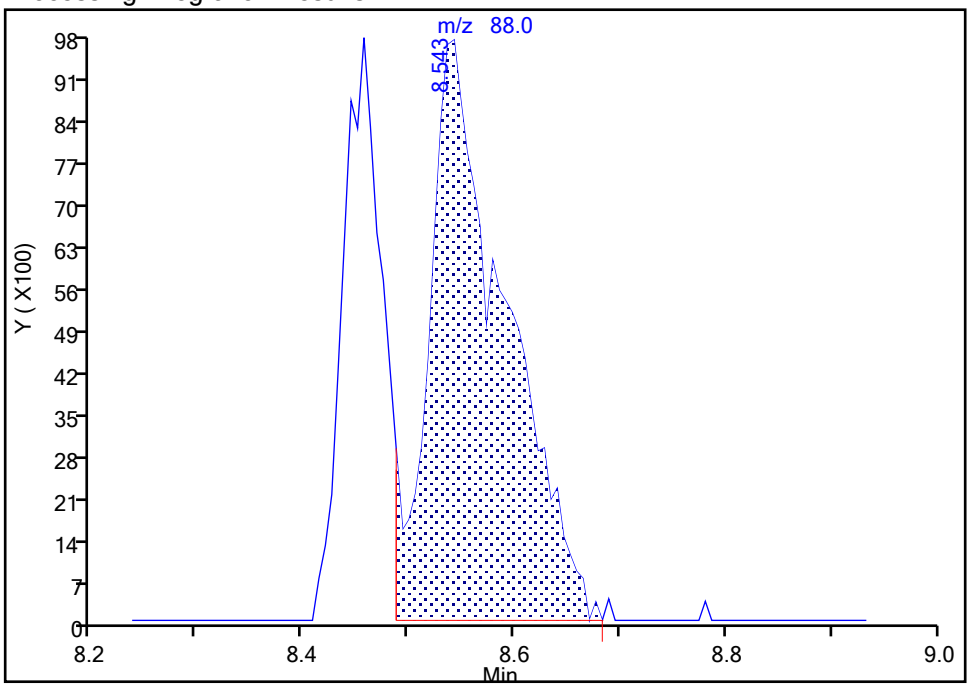
Data File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11X14.D				
Injection Date:	11-Jul-2022 17:31:30	Instrument ID:	19094		
Lims ID:	IC std5 5				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

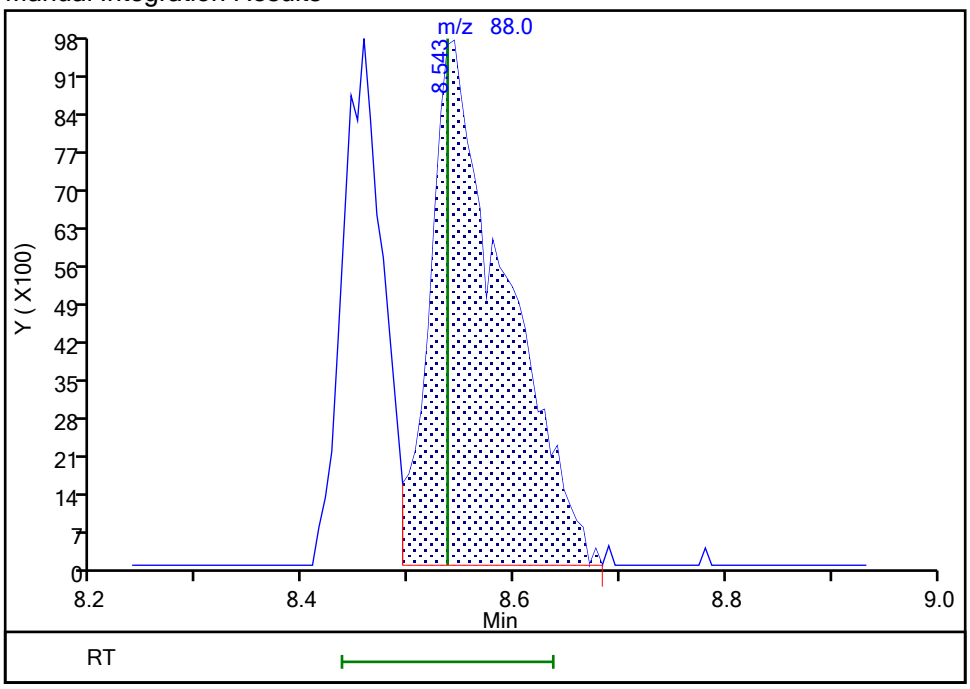
Processing Integration Results

RT: 8.54
Area: 49030
Amount: 357.4625
Amount Units: ug/l



Manual Integration Results

RT: 8.54
Area: 47977
Amount: 253.0130
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 09:51:05
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11X15.D
Lims ID: IC std4 2
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 11-Jul-2022 17:51:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052505-015
Operator ID: kas02648 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 12-Jul-2022 11:50:56 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1678

First Level Reviewer: UKAD Date: 12-Jul-2022 09:26:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.940	1.940	0.000	99	133086	2.00	2.14	
6 Chloromethane	50	2.129	2.129	0.000	99	171365	2.00	2.20	
8 Butadiene	39	2.245	2.245	0.000	91	157585	2.00	2.14	
7 Vinyl chloride	62	2.251	2.251	0.000	85	171314	2.00	2.22	
9 Bromomethane	94	2.562	2.562	0.000	90	115842	2.00	2.14	
10 Chloroethane	64	2.648	2.648	0.000	100	101707	2.00	2.17	
11 Dichlorofluoromethane	67	2.873	2.873	0.000	97	226294	2.00	2.18	
13 Trichlorofluoromethane	101	2.952	2.952	0.000	96	204745	2.00	2.19	
15 Ethyl ether	59	3.154	3.154	0.000	92	86711	2.00	2.22	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.257	3.257	0.000	95	158543	2.00	2.18	
17 Acrolein	56	3.349	3.349	0.000	100	590053	100.0	99.7	
18 1,1-Dichloroethene	96	3.489	3.489	0.000	98	111716	2.00	2.11	
19 Acetone	43	3.507	3.507	0.000	63	123401	20.0	17.9	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.519	3.519	0.000	91	106489	2.00	2.07	
21 Isopropyl alcohol	45	3.660	3.660	0.000	95	56636	40.0	41.8	
22 Iodomethane	142	3.672	3.672	0.000	99	190590	2.00	2.07	
23 Ethyl bromide	108	3.708	3.708	0.000	98	101436	2.00	2.19	
24 Carbon disulfide	76	3.788	3.788	0.000	99	296255	2.00	2.09	
26 Methyl acetate	43	3.910	3.910	0.000	20	35316	2.00	1.94	M
27 3-Chloro-1-propene	41	3.952	3.952	0.000	94	188981	2.00	2.06	
29 Methylene Chloride	84	4.129	4.129	0.000	92	113641	2.00	2.08	
* 28 t-Butyl alcohol-d10 (IS)	65	4.123	4.123	0.000	0	107663	50.0	50.0	
30 2-Methyl-2-propanol	59	4.275	4.275	0.000	98	99901	40.0	42.9	
31 Acrylonitrile	53	4.464	4.464	0.000	96	49301	5.00	5.30	
32 Methyl tert-butyl ether	73	4.519	4.519	0.000	94	246579	2.00	2.09	
33 trans-1,2-Dichloroethene	96	4.544	4.544	0.000	99	123103	2.00	2.10	
34 Hexane	57	4.970	4.970	0.000	93	169913	2.00	2.07	
35 1,1-Dichloroethane	63	5.202	5.202	0.000	95	225005	2.00	2.05	
37 Isopropyl ether	45	5.263	5.263	0.000	96	385192	2.00	2.06	
38 2-Chloro-1,3-butadiene	53	5.306	5.306	0.000	89	186653	2.00	2.08	
39 Tert-butyl ethyl ether	59	5.793	5.793	0.000	99	343121	2.00	2.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.988	5.988	0.000	100	236486	20.0	19.7	
42 cis-1,2-Dichloroethene	96	6.031	6.031	0.000	82	132683	2.00	2.06	
43 2,2-Dichloropropane	77	6.055	6.055	0.000	85	191971	2.00	2.09	
45 Propionitrile	54	6.074	6.074	0.000	99	129739	40.0	42.2	
S 40 1,2-Dichloroethene, Total	100				0			4.16	
47 Methacrylonitrile	67	6.293	6.293	0.000	91	259901	20.0	19.6	
48 Chlorobromomethane	128	6.360	6.360	0.000	96	52761	2.00	2.05	
49 Tetrahydrofuran	71	6.372	6.372	0.000	79	34053	10.0	9.94	
50 Chloroform	83	6.513	6.513	0.000	93	213834	2.00	2.07	
$ 51 Dibromofluoromethane (Surr)	113	6.726	6.726	0.000	94	520651	10.0	10.1	
52 1,1,1-Trichloroethane	97	6.757	6.757	0.000	98	197900	2.00	2.05	
53 Cyclohexane	56	6.860	6.860	0.000	90	226192	2.00	2.07	
55 1,1-Dichloropropene	75	6.958	6.958	0.000	98	178784	2.00	2.05	
56 Carbon tetrachloride	117	6.964	6.964	0.000	82	171753	2.00	2.06	
57 Isobutyl alcohol	41	7.098	7.098	0.000	96	79569	100.0	104.7	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.189	7.189	0.000	0	94159	10.0	10.0	
59 Benzene	78	7.220	7.220	0.000	97	519476	2.00	2.05	
60 1,2-Dichloroethane	62	7.293	7.293	0.000	96	112224	2.00	2.04	
62 Tert-amyl methyl ether	73	7.415	7.415	0.000	98	287948	2.00	2.05	
* 65 Fluorobenzene (IS)	96	7.628	7.628	0.000	98	2031307	10.0	10.0	
64 n-Heptane	43	7.653	7.653	0.000	93	175823	2.00	1.96	
66 n-Butanol	56	7.988	7.988	0.000	86	133360	175.0	205.3	
67 Trichloroethene	95	8.116	8.116	0.000	98	135366	2.00	2.02	
68 Methylcyclohexane	83	8.433	8.433	0.000	93	231199	2.00	2.05	
70 1,2-Dichloropropane	63	8.451	8.451	0.000	85	131100	2.00	2.06	
69 2-ethoxy-2-methyl butane	87	8.451	8.451	0.000	90	182421	2.00	2.04	
71 Methyl methacrylate	69	8.537	8.537	0.000	89	51766	2.00	1.96	
72 1,4-Dioxane	88	8.549	8.549	0.000	37	18622	100.0	110.3	
73 Dibromomethane	93	8.555	8.555	0.000	94	52719	2.00	1.99	
75 Dichlorobromomethane	83	8.799	8.799	0.000	100	146679	2.00	2.05	
76 2-Nitropropane	41	9.067	9.067	0.000	99	63753	10.0	9.73	
79 1-Bromo-2-chloroethane	63	9.195	9.195	0.000	98	128748	2.00	2.20	
80 cis-1,3-Dichloropropene	75	9.354	9.354	0.000	97	187149	2.00	2.08	
81 4-Methyl-2-pentanone (MIBK)	43	9.518	9.518	0.000	96	621615	20.0	19.1	
$ 82 Toluene-d8 (Surr)	98	9.665	9.665	0.000	93	2219533	10.0	10.0	
83 Toluene	92	9.744	9.744	0.000	99	336595	2.00	2.04	
85 trans-1,3-Dichloropropene	75	10.000	10.000	0.000	92	143896	2.00	2.05	
S 84 1,3-Dichloropropene, Total	100				0			4.13	
86 Ethyl methacrylate	69	10.067	10.067	0.000	88	110202	2.00	2.05	
87 1,1,2-Trichloroethane	97	10.207	10.207	0.000	89	77953	2.00	2.00	
88 Tetrachloroethene	166	10.299	10.299	0.000	97	155095	2.00	2.04	
89 1,3-Dichloropropane	76	10.372	10.372	0.000	90	135730	2.00	2.02	
91 2-Hexanone	43	10.420	10.420	0.000	97	420963	20.0	19.5	
93 Chlorodibromomethane	129	10.591	10.591	0.000	90	97440	2.00	2.02	
94 Ethylene Dibromide	107	10.701	10.701	0.000	99	75141	2.00	2.10	
* 97 Chlorobenzene-d5 (IS)	117	11.134	11.134	0.000	85	1814146	10.0	10.0	
96 1-Chlorohexane	91	11.146	11.146	0.000	96	206815	2.00	2.03	
98 Chlorobenzene	112	11.164	11.164	0.000	96	358343	2.00	2.04	
99 1,1,1,2-Tetrachloroethane	131	11.243	11.243	0.000	97	121792	2.00	2.02	
S 95 Xylenes, Total	106				0			6.15	
100 Ethylbenzene	91	11.250	11.250	0.000	98	663103	2.00	2.06	
101 m-Xylene & p-Xylene	106	11.365	11.365	0.000	0	501557	4.00	4.09	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 o-Xylene	106	11.695	11.695	0.000	97	245217	2.00	2.07	
103 Styrene	104	11.713	11.713	0.000	95	398001	2.00	2.07	
104 Bromoform	173	11.871	11.871	0.000	98	57271	2.00	2.06	
105 Isopropylbenzene	105	11.999	11.999	0.000	95	663631	2.00	2.07	
$ 108 4-Bromofluorobenzene (Surr)	95	12.140	12.140	0.000	91	896459	10.0	9.95	
109 1,1,2,2-Tetrachloroethane	83	12.243	12.243	0.000	92	96897	2.00	2.12	
111 Bromobenzene	156	12.262	12.262	0.000	97	139476	2.00	2.04	
110 trans-1,4-Dichloro-2-butene	53	12.268	12.268	0.000	91	215992	20.0	19.2	
112 1,2,3-Trichloropropane	110	12.292	12.292	0.000	81	24664	2.00	2.15	
113 N-Propylbenzene	91	12.329	12.329	0.000	99	796754	2.00	2.09	
114 2-Chlorotoluene	126	12.402	12.402	0.000	97	150036	2.00	2.05	
115 1,3,5-Trimethylbenzene	105	12.463	12.463	0.000	93	556367	2.00	2.09	
116 4-Chlorotoluene	126	12.493	12.493	0.000	97	151238	2.00	2.05	
118 tert-Butylbenzene	134	12.707	12.707	0.000	92	119759	2.00	2.04	
119 Pentachloroethane	167	12.737	12.737	0.000	93	89007	2.00	2.16	
120 1,2,4-Trimethylbenzene	105	12.749	12.749	0.000	97	552306	2.00	2.06	
121 sec-Butylbenzene	105	12.871	12.871	0.000	94	723734	2.00	2.08	
122 1,3-Dichlorobenzene	146	12.969	12.969	0.000	98	294576	2.00	2.08	
123 4-Isopropyltoluene	119	12.975	12.975	0.000	97	621334	2.00	2.08	
* 124 1,4-Dichlorobenzene-d4	152	13.024	13.024	0.000	95	997250	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.042	13.042	0.000	96	289594	2.00	2.06	
126 1,2,3-Trimethylbenzene	120	13.054	13.054	0.000	98	233280	2.00	2.04	
127 Benzyl chloride	126	13.121	13.121	0.000	98	38227	2.00	2.06	
129 p-Diethylbenzene	119	13.176	13.176	0.000	91	357868	2.00	2.08	
130 n-Butylbenzene	92	13.267	13.267	0.000	97	313888	2.00	2.08	
131 1,2-Dichlorobenzene	146	13.304	13.304	0.000	99	256900	2.00	2.05	
134 1,2-Dibromo-3-Chloropropane	155	13.847	13.847	0.000	89	14346	2.00	2.38	
135 1,3,5-Trichlorobenzene	180	13.969	13.969	0.000	98	233002	2.00	2.12	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	93	199643	2.00	2.15	
137 Hexachlorobutadiene	225	14.475	14.475	0.000	95	88268	2.00	1.96	
138 Naphthalene	128	14.572	14.572	0.000	97	319229	2.00	2.13	
139 1,2,3-Trichlorobenzene	180	14.712	14.712	0.000	95	169189	2.00	2.15	
140 2-Methylnaphthalene	142	15.340	15.340	0.000	92	196259	2.00	2.18	
194 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_00049	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00101	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00053	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 12-Jul-2022 11:50:57 Chrom Revision: 2.3 08-Jul-2022 13:26:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11X15.D

Injection Date: 11-Jul-2022 17:51:30 Instrument ID: 19094 Operator ID: kas02648

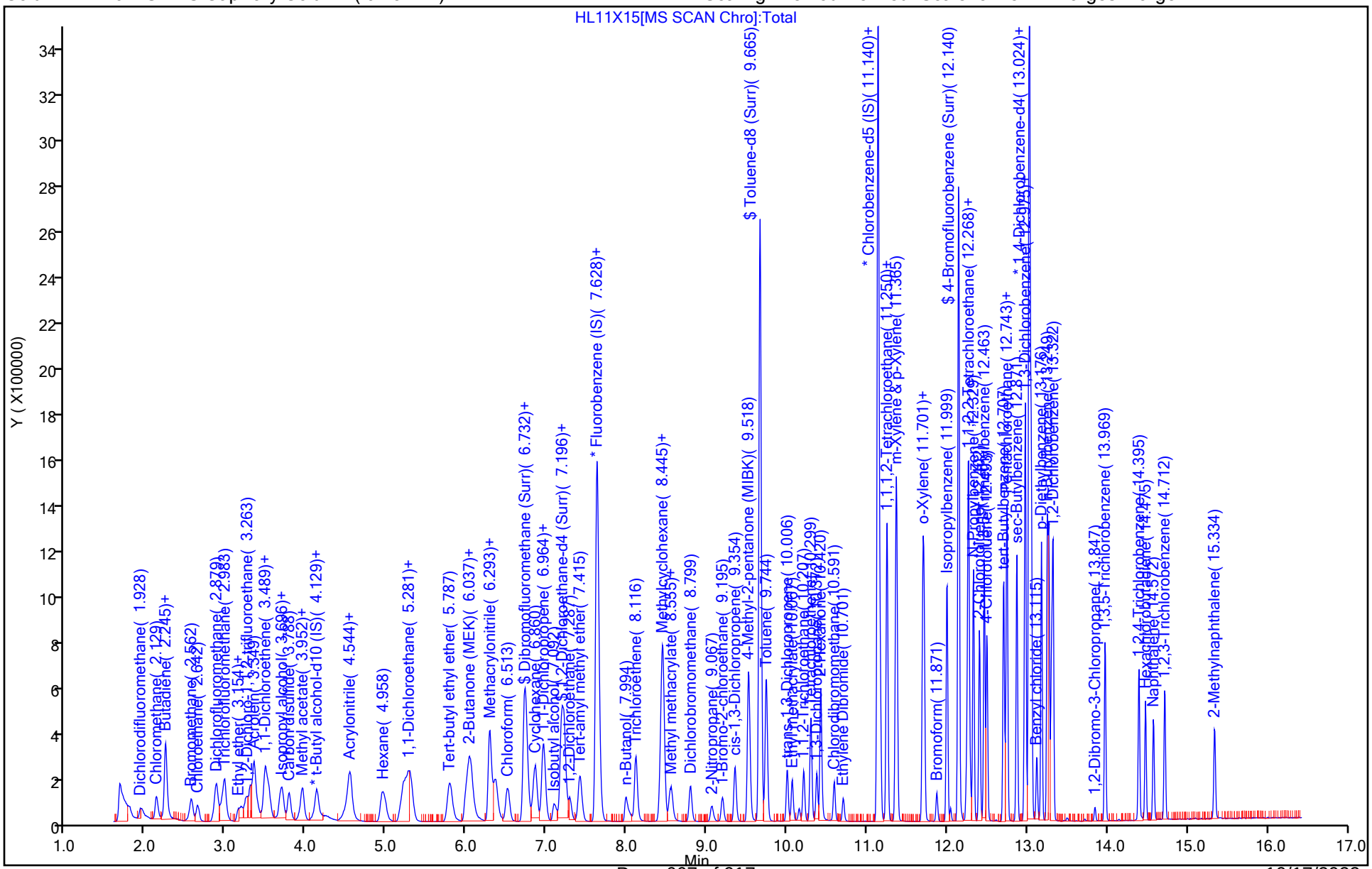
Lims ID: IC std4 2 Worklist Smp#: 15

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 15

Method: MSV_19094_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

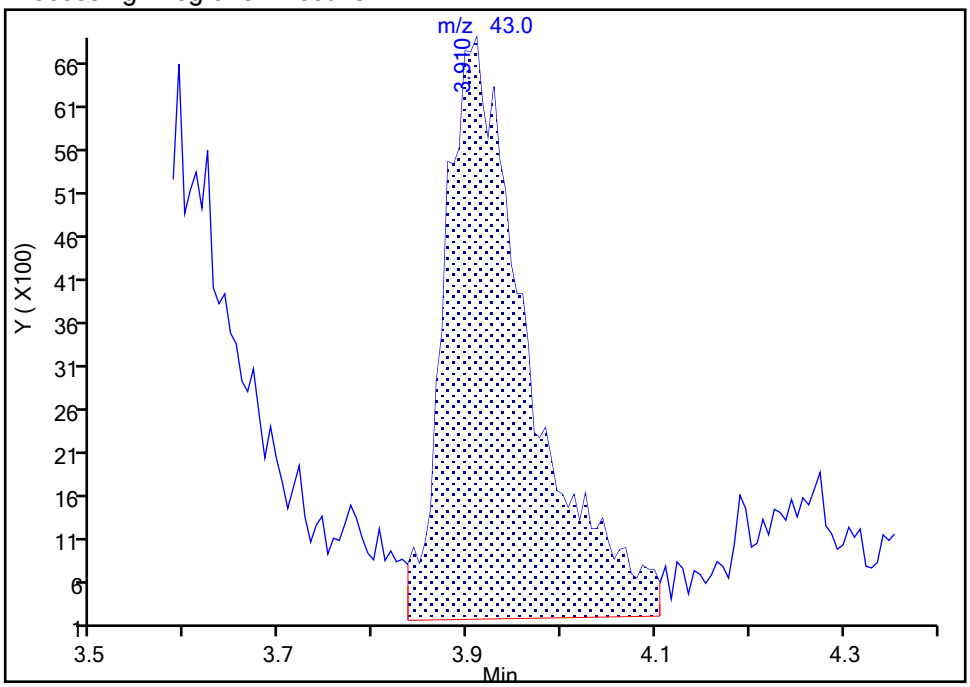
Data File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11X15.D				
Injection Date:	11-Jul-2022 17:51:30	Instrument ID:	19094		
Lims ID:	IC std4 2				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

26 Methyl acetate, CAS: 79-20-9

Signal: 1

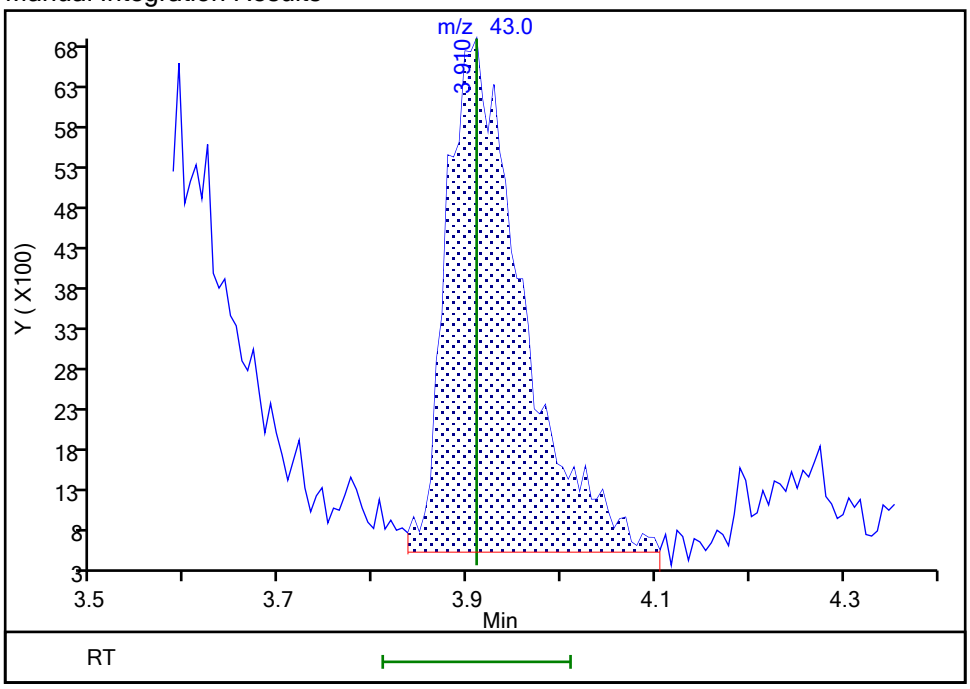
RT: 3.91
Area: 41579
Amount: 2.194579
Amount Units: ug/l

Processing Integration Results



Manual Integration Results

RT: 3.91
Area: 35316
Amount: 1.937652
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 09:51:53
Audit Action: Assigned New Baseline Audit Reason: Baseline

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11X16.D
Lims ID: IC std3 1
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-Jul-2022 18:11:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052505-016
Operator ID: kas02648 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 12-Jul-2022 11:51:06 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1678

First Level Reviewer: UKAD Date: 12-Jul-2022 09:54:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.934	1.940	-0.006	99	59403	1.00	0.9518	
6 Chloromethane	50	2.123	2.129	-0.006	99	71922	1.00	0.9198	
8 Butadiene	39	2.245	2.245	0.000	92	70198	1.00	0.9505	
7 Vinyl chloride	62	2.245	2.251	-0.006	87	73466	1.00	0.9483	
9 Bromomethane	94	2.562	2.562	0.000	88	49078	1.00	0.9024	
10 Chloroethane	64	2.641	2.648	-0.007	99	43768	1.00	0.9312	
11 Dichlorofluoromethane	67	2.873	2.873	0.000	97	94716	1.00	0.9091	
13 Trichlorofluoromethane	101	2.940	2.952	-0.012	96	87411	1.00	0.9321	
15 Ethyl ether	59	3.160	3.154	0.006	90	36780	1.00	0.9380	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.257	3.257	0.000	93	67338	1.00	0.9219	
17 Acrolein	56	3.349	3.349	0.000	99	251826	50.0	52.6	
18 1,1-Dichloroethene	96	3.483	3.489	-0.006	98	51047	1.00	0.9634	
19 Acetone	43	3.507	3.507	0.000	57	56977	10.0	10.2	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.525	3.519	0.006	91	51449	1.00	1.00	
21 Isopropyl alcohol	45	3.672	3.660	0.012	26	19191	20.0	15.4	
22 Iodomethane	142	3.678	3.672	0.006	97	89934	1.00	0.9760	
23 Ethyl bromide	108	3.702	3.708	-0.006	97	43476	1.00	0.9338	
24 Carbon disulfide	76	3.781	3.788	-0.007	98	135219	1.00	0.9533	
26 Methyl acetate	43	3.885	3.910	-0.025	20	15201	1.00	1.03	M
27 3-Chloro-1-propene	41	3.946	3.952	-0.006	94	86514	1.00	0.9408	
* 28 t-Butyl alcohol-d10 (IS)	65	4.147	4.123	0.024	0	87066	50.0	50.0	
29 Methylene Chloride	84	4.135	4.129	0.006	94	52410	1.00	0.9548	
30 2-Methyl-2-propanol	59	4.226	4.275	-0.049	77	40615	20.0	21.6	
31 Acrylonitrile	53	4.470	4.464	0.006	19	19244	2.50	2.56	M
32 Methyl tert-butyl ether	73	4.531	4.519	0.012	93	112695	1.00	0.9513	
33 trans-1,2-Dichloroethene	96	4.556	4.544	0.012	99	56807	1.00	0.9650	
34 Hexane	57	4.946	4.970	-0.024	93	77822	1.00	0.9449	
35 1,1-Dichloroethane	63	5.196	5.202	-0.006	95	104448	1.00	0.9492	
37 Isopropyl ether	45	5.257	5.263	-0.006	96	179260	1.00	0.9574	
38 2-Chloro-1,3-butadiene	53	5.306	5.306	0.000	91	83795	1.00	0.9325	
39 Tert-butyl ethyl ether	59	5.781	5.793	-0.012	99	158776	1.00	0.9585	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 2-Butanone (MEK)	43	5.988	5.988	0.000	100	102351	10.0	10.6	
42 cis-1,2-Dichloroethene	96	6.031	6.031	0.000	81	61506	1.00	0.9513	
43 2,2-Dichloropropane	77	6.049	6.055	-0.006	86	87898	1.00	0.9535	
45 Propionitrile	54	6.086	6.074	0.012	98	51370	20.0	20.7	
S 40 1,2-Dichloroethene, Total	100				0			1.92	
47 Methacrylonitrile	67	6.293	6.293	0.000	92	114169	10.0	10.6	
48 Chlorobromomethane	128	6.366	6.360	0.006	94	24178	1.00	0.9360	
49 Tetrahydrofuran	71	6.372	6.372	0.000	83	15578	5.00	5.62	
50 Chloroform	83	6.519	6.513	0.006	92	98008	1.00	0.9441	
$ 51 Dibromofluoromethane (Surr)	113	6.726	6.726	0.000	94	511791	10.0	9.92	
52 1,1,1-Trichloroethane	97	6.756	6.757	-0.001	98	91770	1.00	0.9498	
53 Cyclohexane	56	6.860	6.860	0.000	91	104255	1.00	0.9512	
55 1,1-Dichloropropene	75	6.952	6.958	-0.006	97	82705	1.00	0.9469	
56 Carbon tetrachloride	117	6.964	6.964	0.000	78	79987	1.00	0.9573	
57 Isobutyl alcohol	41	7.098	7.098	0.000	95	30946	50.0	50.4	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.189	-0.012	0	91709	10.0	9.75	
59 Benzene	78	7.220	7.220	0.000	95	244107	1.00	0.9588	
60 1,2-Dichloroethane	62	7.299	7.293	0.006	97	51817	1.00	0.9393	
62 Tert-amyl methyl ether	73	7.409	7.415	-0.006	98	136162	1.00	0.9647	
* 65 Fluorobenzene (IS)	96	7.628	7.628	0.000	99	2037557	10.0	10.0	
64 n-Heptane	43	7.647	7.653	-0.007	92	86111	1.00	0.9553	
66 n-Butanol	56	7.994	7.988	0.006	88	47075	87.5	89.6	
67 Trichloroethene	95	8.110	8.116	-0.006	98	63655	1.00	0.9491	
68 Methylcyclohexane	83	8.433	8.433	0.000	93	109016	1.00	0.9635	
70 1,2-Dichloropropane	63	8.451	8.451	0.000	88	61027	1.00	0.9549	
69 2-ethoxy-2-methyl butane	87	8.457	8.451	0.006	91	86257	1.00	0.9633	
71 Methyl methacrylate	69	8.537	8.537	0.000	91	22726	1.00	1.06	
72 1,4-Dioxane	88	8.567	8.549	0.018	33	7312	50.0	53.6	
73 Dibromomethane	93	8.561	8.555	0.006	95	25263	1.00	0.9494	
75 Dichlorobromomethane	83	8.793	8.799	-0.006	99	66840	1.00	0.9293	
76 2-Nitropropane	41	9.061	9.067	-0.006	96	27305	5.00	5.15	
79 1-Bromo-2-chloroethane	63	9.195	9.195	0.000	98	54639	1.00	0.9300	
80 cis-1,3-Dichloropropene	75	9.347	9.354	-0.007	96	83305	1.00	0.9232	
81 4-Methyl-2-pentanone (MIBK)	43	9.518	9.518	0.000	96	288664	10.0	11.0	
$ 82 Toluene-d8 (Surr)	98	9.664	9.665	-0.001	93	2188271	10.0	9.92	
83 Toluene	92	9.738	9.744	-0.006	98	154507	1.00	0.9430	
85 trans-1,3-Dichloropropene	75	10.006	10.000	0.006	91	65774	1.00	0.9426	
S 84 1,3-Dichloropropene, Total	100				0			1.87	
86 Ethyl methacrylate	69	10.067	10.067	0.000	88	51321	1.00	0.9596	
87 1,1,2-Trichloroethane	97	10.213	10.207	0.006	90	36462	1.00	0.9395	
88 Tetrachloroethene	166	10.298	10.299	-0.001	97	72632	1.00	0.9602	
89 1,3-Dichloropropane	76	10.372	10.372	0.000	88	64455	1.00	0.9635	
91 2-Hexanone	43	10.420	10.420	0.000	98	186685	10.0	10.7	
93 Chlorodibromomethane	129	10.591	10.591	0.000	89	44590	1.00	0.9283	
94 Ethylene Dibromide	107	10.701	10.701	0.000	97	33650	1.00	0.9465	
* 97 Chlorobenzene-d5 (IS)	117	11.134	11.134	0.000	85	1802515	10.0	10.0	
96 1-Chlorohexane	91	11.146	11.146	0.000	97	96628	1.00	0.9543	
98 Chlorobenzene	112	11.164	11.164	0.000	95	166598	1.00	0.9544	
99 1,1,1,2-Tetrachloroethane	131	11.243	11.243	0.000	95	55816	1.00	0.9321	
S 95 Xylenes, Total	106				0			2.83	
100 Ethylbenzene	91	11.249	11.250	-0.001	98	305034	1.00	0.9533	
101 m-Xylene & p-Xylene	106	11.365	11.365	0.000	0	228568	2.00	1.87	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 o-Xylene	106	11.695	11.695	-0.001	97	112434	1.00	0.9535	
103 Styrene	104	11.713	11.713	0.000	96	181168	1.00	0.9470	
104 Bromoform	173	11.871	11.871	0.000	97	25426	1.00	0.9186	
105 Isopropylbenzene	105	11.999	11.999	0.000	95	299877	1.00	0.9405	
$ 108 4-Bromofluorobenzene (Surr)	95	12.140	12.140	0.000	91	888594	10.0	9.93	
109 1,1,2,2-Tetrachloroethane	83	12.243	12.243	0.000	93	43665	1.00	0.9610	
111 Bromobenzene	156	12.261	12.262	-0.001	96	66242	1.00	0.9739	
110 trans-1,4-Dichloro-2-butene	53	12.268	12.268	0.000	91	94622	10.0	10.4	
112 1,2,3-Trichloropropane	110	12.286	12.292	-0.006	79	10598	1.00	0.9290	
113 N-Propylbenzene	91	12.329	12.329	0.000	99	361905	1.00	0.9542	
114 2-Chlorotoluene	126	12.402	12.402	0.000	97	70640	1.00	0.9678	
115 1,3,5-Trimethylbenzene	105	12.463	12.463	0.000	94	254672	1.00	0.9627	
116 4-Chlorotoluene	126	12.493	12.493	0.000	98	69914	1.00	0.9540	
118 tert-Butylbenzene	134	12.706	12.707	-0.001	93	58136	1.00	0.99	
119 Pentachloroethane	167	12.737	12.737	0.000	85	38784	1.00	0.9440	
120 1,2,4-Trimethylbenzene	105	12.749	12.749	0.000	97	253767	1.00	0.9507	
121 sec-Butylbenzene	105	12.871	12.871	0.000	94	331458	1.00	0.9568	
122 1,3-Dichlorobenzene	146	12.969	12.969	0.000	98	131401	1.00	0.9330	
123 4-Isopropyltoluene	119	12.975	12.975	0.000	97	283008	1.00	0.9530	
* 124 1,4-Dichlorobenzene-d4	152	13.024	13.024	0.000	94	992900	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.042	13.042	0.000	96	131226	1.00	0.9388	
126 1,2,3-Trimethylbenzene	120	13.054	13.054	0.000	96	106449	1.00	0.9354	
127 Benzyl chloride	126	13.121	13.121	0.000	98	17500	1.00	0.9473	
129 p-Diethylbenzene	119	13.176	13.176	0.000	92	164633	1.00	0.9591	
130 n-Butylbenzene	92	13.267	13.267	0.000	96	142558	1.00	0.9511	
131 1,2-Dichlorobenzene	146	13.304	13.304	0.000	98	117234	1.00	0.9395	
134 1,2-Dibromo-3-Chloropropane	155	13.847	13.847	0.000	85	5499	1.00	0.9169	
135 1,3,5-Trichlorobenzene	180	13.968	13.969	-0.001	98	106250	1.00	0.9699	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	88686	1.00	0.9615	
137 Hexachlorobutadiene	225	14.474	14.475	-0.001	96	42671	1.00	0.9525	
138 Naphthalene	128	14.572	14.572	0.000	97	141968	1.00	0.9532	
139 1,2,3-Trichlorobenzene	180	14.718	14.712	0.006	96	76975	1.00	0.9830	
140 2-Methylnaphthalene	142	15.334	15.340	-0.006	91	88905	1.00	0.99	
194 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_00049	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00101	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00053	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 12-Jul-2022 11:51:08 Chrom Revision: 2.3 08-Jul-2022 13:26:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11X16.D

Injection Date: 11-Jul-2022 18:11:30 Instrument ID: 19094 Operator ID: kas02648

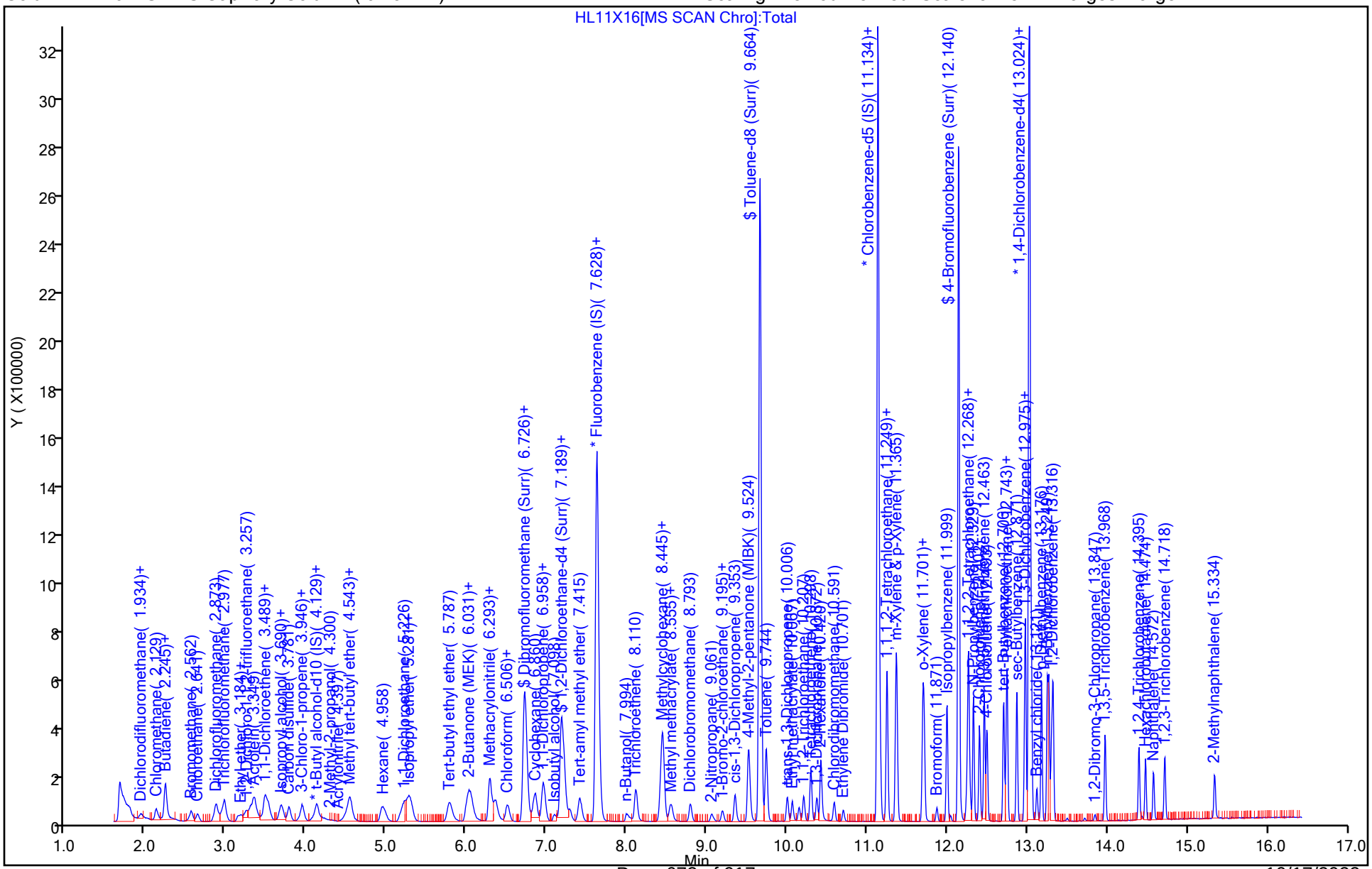
Lims ID: IC std3 1 Worklist Smp#: 16

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 16

Method: MSV_19094_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

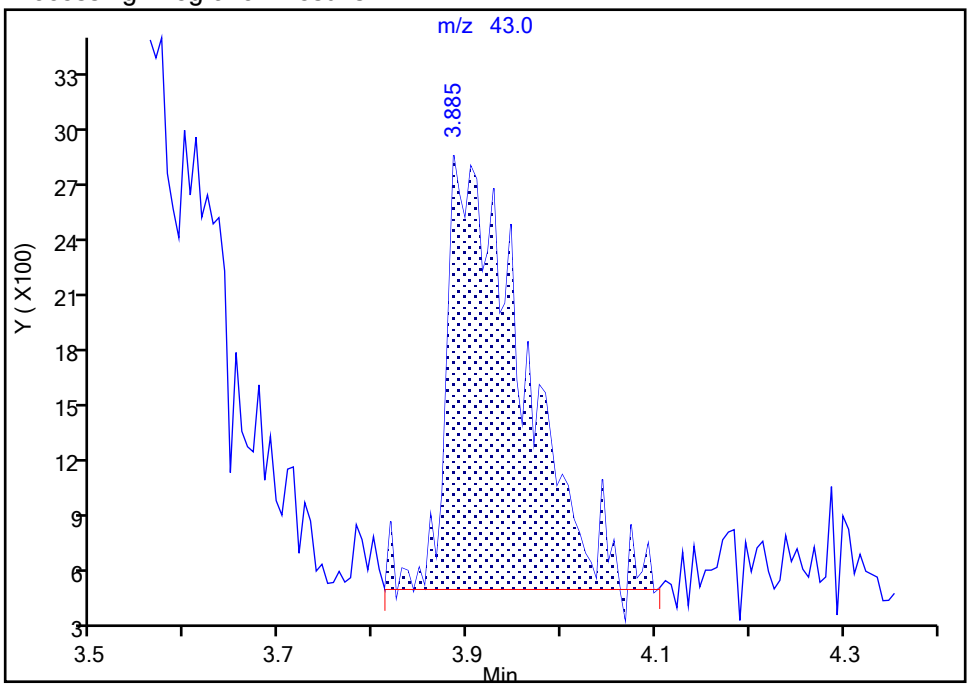
Data File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11X16.D				
Injection Date:	11-Jul-2022 18:11:30	Instrument ID:	19094		
Lims ID:	IC std3 1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

26 Methyl acetate, CAS: 79-20-9

Signal: 1

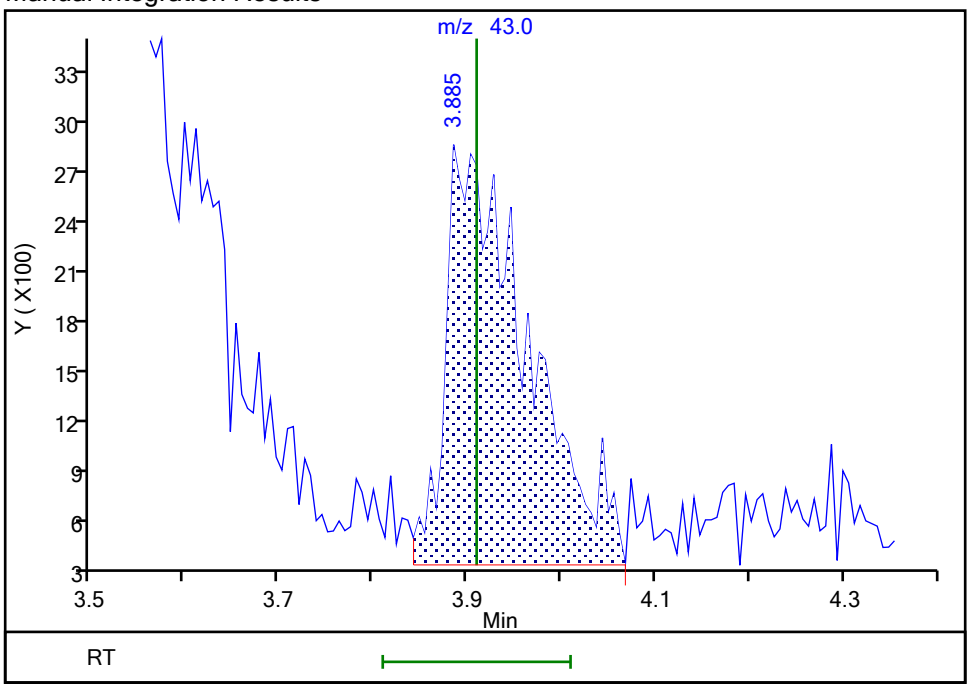
RT: 3.89
Area: 13369
Amount: 0.926818
Amount Units: ug/l

Processing Integration Results



RT: 3.89
Area: 15201
Amount: 1.031322
Amount Units: ug/l

Manual Integration Results



Reviewer: UKAD, 12-Jul-2022 09:53:38

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

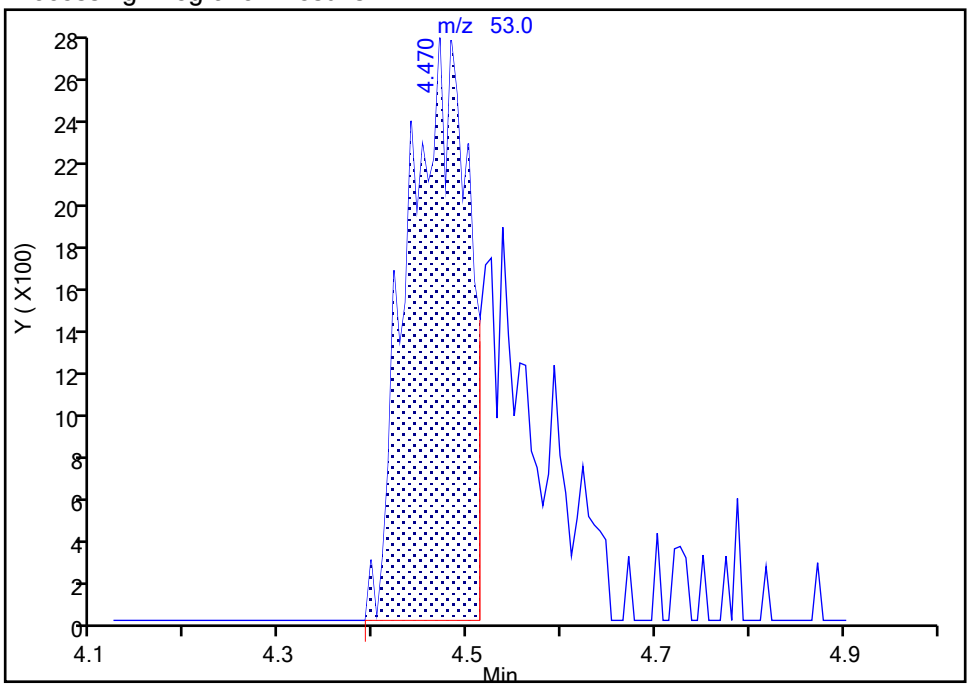
Data File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11X16.D				
Injection Date:	11-Jul-2022 18:11:30	Instrument ID:	19094		
Lims ID:	IC std3 1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

31 Acrylonitrile, CAS: 107-13-1

Signal: 1

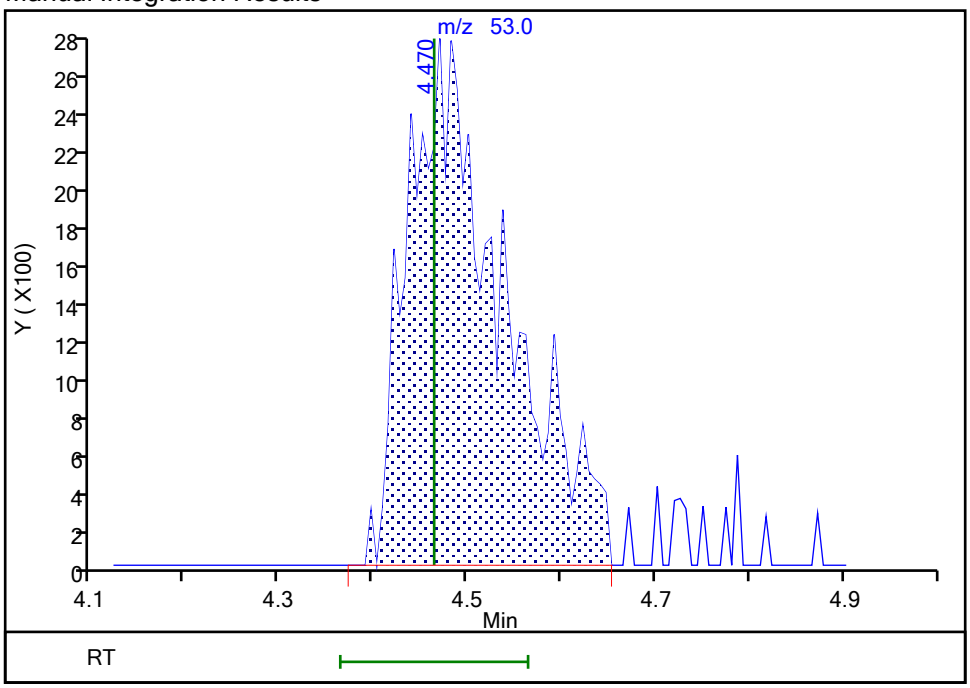
Processing Integration Results

RT: 4.47
Area: 12185
Amount: 1.927957
Amount Units: ug/l



Manual Integration Results

RT: 4.47
Area: 19244
Amount: 2.559270
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 10:11:14

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11X17.D
Lims ID: IC std2 0.5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-Jul-2022 18:32:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052505-017
Operator ID: kas02648 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 12-Jul-2022 11:51:15 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1678

First Level Reviewer: UKAD Date: 12-Jul-2022 09:56:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.946	1.940	0.006	98	29441	0.5000	0.4731	
6 Chloromethane	50	2.129	2.129	0.000	99	35764	0.5000	0.4588	
8 Butadiene	39	2.239	2.245	-0.006	91	32434	0.5000	0.4405	
7 Vinyl chloride	62	2.245	2.251	-0.006	83	34329	0.5000	0.4445	
9 Bromomethane	94	2.568	2.562	0.006	89	25582	0.5000	0.4718	
10 Chloroethane	64	2.641	2.648	-0.007	99	22322	0.5000	0.4764	
11 Dichlorofluoromethane	67	2.867	2.873	-0.006	96	47783	0.5000	0.4600	
13 Trichlorofluoromethane	101	2.952	2.952	0.000	96	41511	0.5000	0.4440	
15 Ethyl ether	59	3.154	3.154	0.000	84	17231	0.5001	0.4408	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.257	3.257	0.000	92	34976	0.5000	0.4803	
17 Acrolein	56	3.355	3.349	0.006	99	126498	25.0	28.1	
18 1,1-Dichloroethene	96	3.483	3.489	-0.006	97	26778	0.5000	0.5069	
19 Acetone	43	3.532	3.507	0.025	68	31750	5.00	6.07	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.525	3.519	0.006	88	24601	0.5000	0.4775	
21 Isopropyl alcohol	45	3.684	3.660	0.024	28	9017	10.0	8.58	M
22 Iodomethane	142	3.678	3.672	0.006	98	46089	0.5000	0.5017	
23 Ethyl bromide	108	3.708	3.708	0.000	97	20594	0.4999	0.4436	
24 Carbon disulfide	76	3.788	3.788	0.000	99	69895	0.5000	0.4942	
26 Methyl acetate	43	3.946	3.910	0.036	24	6605	0.5000	0.4770	M
27 3-Chloro-1-propene	41	3.952	3.952	0.000	93	45854	0.5000	0.5001	
* 28 t-Butyl alcohol-d10 (IS)	65	4.129	4.123	0.006	0	81790	50.0	50.0	
29 Methylene Chloride	84	4.135	4.129	0.006	93	27920	0.5000	0.5102	
30 2-Methyl-2-propanol	59	4.263	4.275	-0.012	63	18967	10.0	10.7	
31 Acrylonitrile	53	4.476	4.464	0.012	19	9691	1.25	1.37	M
32 Methyl tert-butyl ether	73	4.525	4.519	0.006	94	58986	0.5000	0.4994	
33 trans-1,2-Dichloroethene	96	4.550	4.544	0.006	100	29230	0.5000	0.4980	
34 Hexane	57	4.964	4.970	-0.006	90	40616	0.5000	0.4946	
35 1,1-Dichloroethane	63	5.190	5.202	-0.012	95	55872	0.5000	0.5093	
37 Isopropyl ether	45	5.257	5.263	-0.006	97	91474	0.5000	0.4900	
38 2-Chloro-1,3-butadiene	53	5.293	5.306	-0.013	89	43848	0.5000	0.4894	
39 Tert-butyl ethyl ether	59	5.787	5.793	-0.006	98	81551	0.5000	0.4938	

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	6.007	5.988	0.019	100	46335	5.00	5.09	
42 cis-1,2-Dichloroethene	96	6.031	6.031	0.000	82	31554	0.5000	0.4895	
43 2,2-Dichloropropane	77	6.049	6.055	-0.006	89	45990	0.5000	0.5004	
45 Propionitrile	54	6.098	6.074	0.024	90	21624	10.0	9.26	
S 40 1,2-Dichloroethene, Total	100				0			0.9875	
47 Methacrylonitrile	67	6.293	6.293	0.000	90	58203	5.00	5.77	
48 Chlorobromomethane	128	6.360	6.360	0.000	92	12193	0.5000	0.4734	
49 Tetrahydrofuran	71	6.366	6.372	-0.006	68	6634	2.50	2.55	
50 Chloroform	83	6.507	6.513	-0.006	93	53597	0.5000	0.5179	
$ 51 Dibromofluoromethane (Surr)	113	6.726	6.726	0.000	94	515062	10.0	10.0	
52 1,1,1-Trichloroethane	97	6.757	6.757	0.000	98	47344	0.5000	0.4915	
53 Cyclohexane	56	6.842	6.860	-0.018	90	54650	0.5000	0.5001	
55 1,1-Dichloropropene	75	6.958	6.958	0.000	97	42736	0.5000	0.4907	
56 Carbon tetrachloride	117	6.964	6.964	0.000	91	39816	0.5000	0.4780	
57 Isobutyl alcohol	41	7.141	7.098	0.043	98	14765	25.0	25.6	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.189	7.189	0.000	0	94092	10.0	10.0	
59 Benzene	78	7.220	7.220	0.000	92	125402	0.5000	0.4940	
60 1,2-Dichloroethane	62	7.293	7.293	0.000	96	27855	0.5000	0.5064	
62 Tert-amyl methyl ether	73	7.409	7.415	-0.006	98	70827	0.5000	0.5033	
* 65 Fluorobenzene (IS)	96	7.628	7.628	0.000	99	2031490	10.0	10.0	
64 n-Heptane	43	7.647	7.653	-0.006	89	45690	0.5000	0.5084	
66 n-Butanol	56	8.012	7.988	0.024	83	16852	43.8	34.1	
67 Trichloroethene	95	8.122	8.116	0.006	97	32976	0.5000	0.4931	
68 Methylcyclohexane	83	8.433	8.433	0.000	93	55236	0.5000	0.4897	
70 1,2-Dichloropropane	63	8.445	8.451	-0.006	74	31975	0.5000	0.5018	
69 2-ethoxy-2-methyl butane	87	8.451	8.451	0.000	90	44274	0.5000	0.4959	
71 Methyl methacrylate	69	8.537	8.537	0.000	95	11226	0.5000	0.5591	
72 1,4-Dioxane	88	8.561	8.549	0.012	34	3415	25.0	26.6	M
73 Dibromomethane	93	8.561	8.555	0.006	93	13211	0.5000	0.4980	
75 Dichlorobromomethane	83	8.793	8.799	-0.006	98	34786	0.5000	0.4851	
76 2-Nitropropane	41	9.067	9.067	0.000	93	13682	2.50	2.75	
79 1-Bromo-2-chloroethane	63	9.201	9.195	0.006	98	25444	0.5000	0.4344	
80 cis-1,3-Dichloropropene	75	9.354	9.354	0.000	97	43415	0.5000	0.4826	
81 4-Methyl-2-pentanone (MIBK)	43	9.518	9.518	0.000	96	144667	5.00	5.86	
$ 82 Toluene-d8 (Surr)	98	9.664	9.665	-0.001	93	2186651	10.0	10.0	
83 Toluene	92	9.744	9.744	0.000	98	81056	0.5000	0.4999	
85 trans-1,3-Dichloropropene	75	10.006	10.000	0.006	91	32928	0.5000	0.4768	
S 84 1,3-Dichloropropene, Total	100				0			0.9594	
86 Ethyl methacrylate	69	10.067	10.067	0.000	88	24949	0.5000	0.4714	
87 1,1,2-Trichloroethane	97	10.213	10.207	0.006	89	18556	0.5000	0.4832	
88 Tetrachloroethene	166	10.299	10.299	-0.001	97	38259	0.5000	0.5111	
89 1,3-Dichloropropane	76	10.372	10.372	0.000	88	32646	0.5000	0.4931	
91 2-Hexanone	43	10.427	10.420	0.007	96	93203	5.00	5.69	
93 Chlorodibromomethane	129	10.591	10.591	0.000	91	22493	0.5000	0.4732	
94 Ethylene Dibromide	107	10.701	10.701	0.000	97	17888	0.5000	0.5085	
* 97 Chlorobenzene-d5 (IS)	117	11.134	11.134	0.000	85	1783683	10.0	10.0	
96 1-Chlorohexane	91	11.146	11.146	0.000	97	50063	0.5000	0.4996	
98 Chlorobenzene	112	11.158	11.164	-0.006	95	85642	0.5000	0.4958	
99 1,1,1,2-Tetrachloroethane	131	11.243	11.243	0.000	94	28846	0.5000	0.4868	
S 95 Xylenes, Total	106				0			1.50	
100 Ethylbenzene	91	11.250	11.250	0.000	98	154814	0.5000	0.4889	
101 m-Xylene & p-Xylene	106	11.365	11.365	0.000	0	121299	1.00	1.00	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 o-Xylene	106	11.695	11.695	0.000	96	57735	0.5000	0.4948	
103 Styrene	104	11.713	11.713	0.000	95	92450	0.5000	0.4884	
104 Bromoform	173	11.871	11.871	0.000	97	12623	0.5000	0.4608	
105 Isopropylbenzene	105	11.999	11.999	0.000	95	156254	0.5000	0.4952	
$ 108 4-Bromofluorobenzene (Surr)	95	12.140	12.140	0.000	91	880073	10.0	9.93	
109 1,1,2,2-Tetrachloroethane	83	12.243	12.243	0.000	92	22404	0.5000	0.5026	
111 Bromobenzene	156	12.262	12.262	0.000	95	32939	0.5000	0.4936	
110 trans-1,4-Dichloro-2-butene	53	12.268	12.268	0.000	91	46217	5.00	5.42	
112 1,2,3-Trichloropropane	110	12.292	12.292	0.000	79	6024	0.5000	0.5382	
113 N-Propylbenzene	91	12.329	12.329	0.000	99	186777	0.5000	0.5019	
114 2-Chlorotoluene	126	12.408	12.402	0.006	97	35571	0.5000	0.4968	
115 1,3,5-Trimethylbenzene	105	12.463	12.463	0.000	94	129835	0.5000	0.5003	
116 4-Chlorotoluene	126	12.493	12.493	0.000	97	36896	0.5000	0.5132	
118 tert-Butylbenzene	134	12.707	12.707	0.000	93	28957	0.5000	0.5046	
119 Pentachloroethane	167	12.737	12.737	0.000	82	18023	0.5000	0.4471	
120 1,2,4-Trimethylbenzene	105	12.749	12.749	0.000	97	132294	0.5000	0.5052	
121 sec-Butylbenzene	105	12.871	12.871	0.000	94	170282	0.5000	0.5010	
122 1,3-Dichlorobenzene	146	12.969	12.969	0.000	98	69911	0.5000	0.5060	
123 4-Isopropyltoluene	119	12.981	12.975	0.006	97	146134	0.5000	0.5016	
* 124 1,4-Dichlorobenzene-d4	152	13.024	13.024	0.000	94	974107	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.042	13.042	0.000	93	69120	0.5000	0.5040	
126 1,2,3-Trimethylbenzene	120	13.054	13.054	0.000	98	56083	0.5000	0.5024	
127 Benzyl chloride	126	13.121	13.121	0.000	99	8260	0.5000	0.4557	
129 p-Diethylbenzene	119	13.176	13.176	0.000	90	85170	0.5000	0.5058	
130 n-Butylbenzene	92	13.267	13.267	0.000	97	70907	0.5000	0.4822	
131 1,2-Dichlorobenzene	146	13.304	13.304	0.000	98	60558	0.5000	0.4947	
134 1,2-Dibromo-3-Chloropropane	155	13.847	13.847	0.000	82	2609	0.5000	0.4434	
135 1,3,5-Trichlorobenzene	180	13.975	13.969	0.006	94	54031	0.5000	0.5027	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	44220	0.5000	0.4886	
137 Hexachlorobutadiene	225	14.475	14.475	0.000	93	24106	0.5000	0.5485	
138 Naphthalene	128	14.578	14.572	0.006	97	72436	0.5000	0.4957	
139 1,2,3-Trichlorobenzene	180	14.718	14.712	0.006	96	39169	0.5000	0.5098	
140 2-Methylnaphthalene	142	15.340	15.340	0.000	89	42541	0.5000	0.4835	
194 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_00049	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00101	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00053	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 12-Jul-2022 11:51:16 Chrom Revision: 2.3 08-Jul-2022 13:26:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11X17.D

Injection Date: 11-Jul-2022 18:32:30 Instrument ID: 19094 Operator ID: kas02648

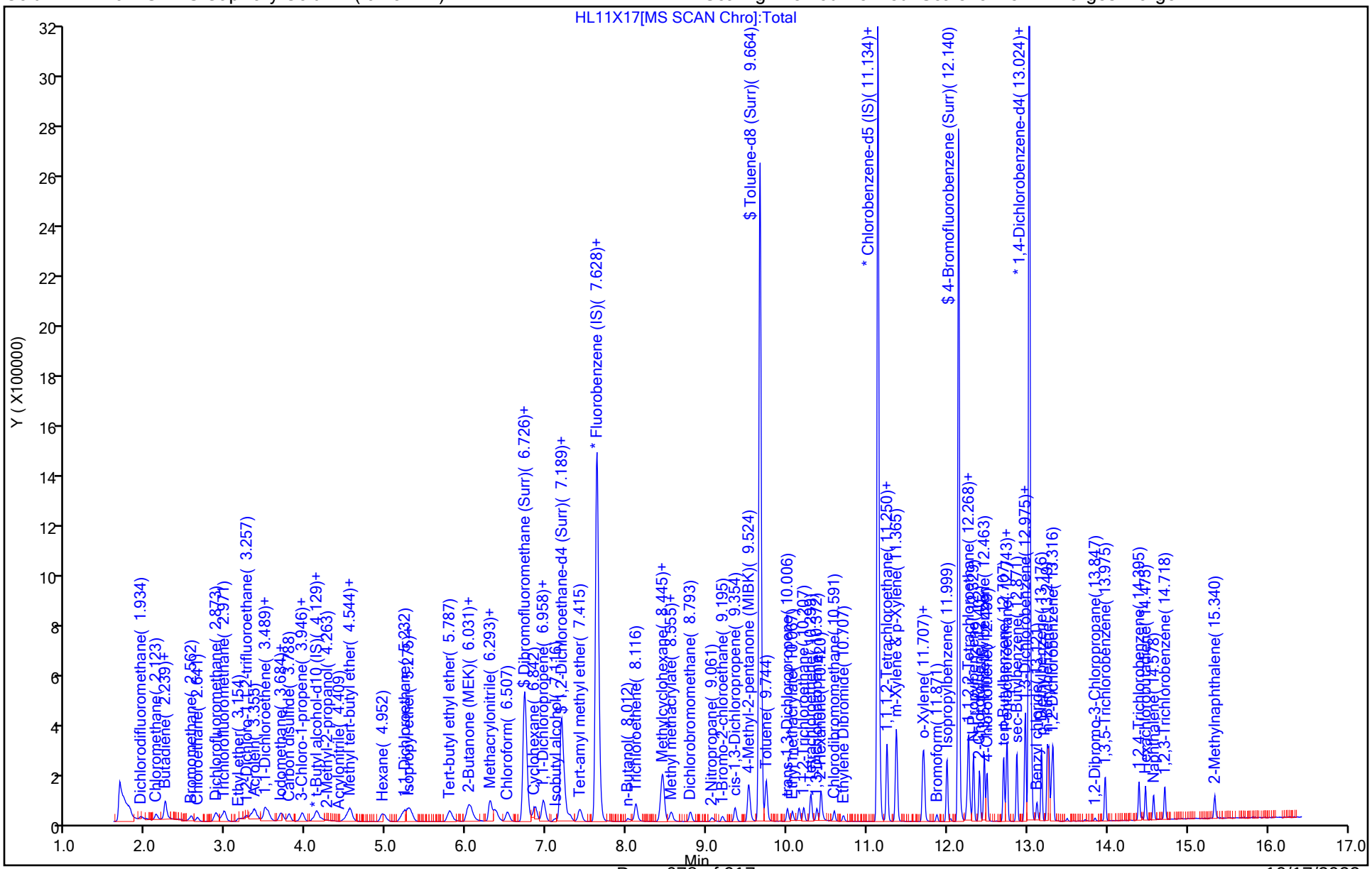
Lims ID: IC std2 0.5 Worklist Smp#: 17

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 17

Method: MSV_19094_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

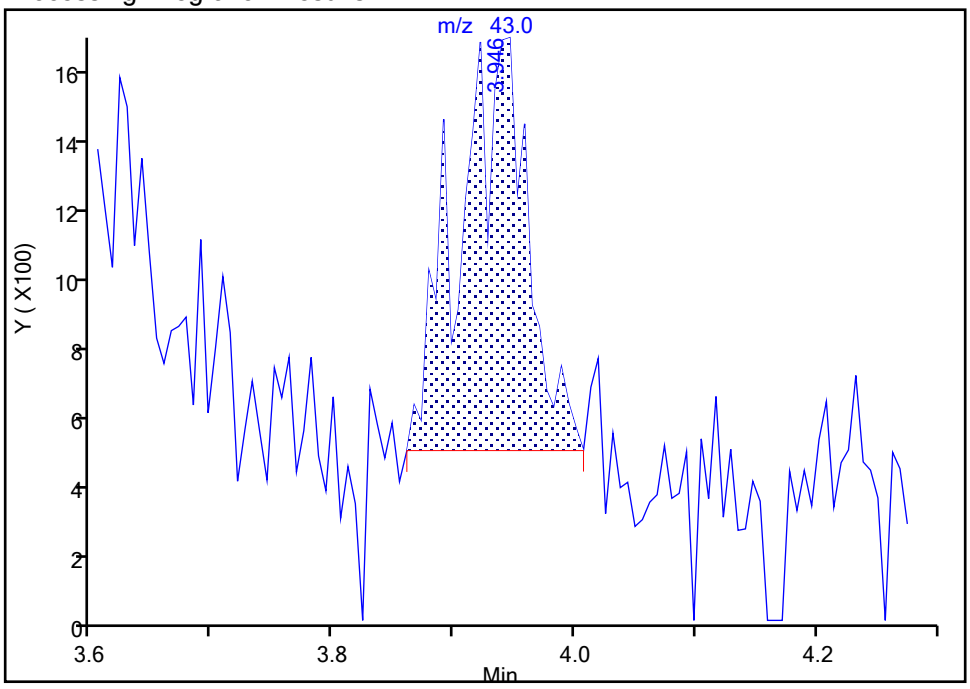
Data File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11X17.D				
Injection Date:	11-Jul-2022 18:32:30	Instrument ID:	19094		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

26 Methyl acetate, CAS: 79-20-9

Signal: 1

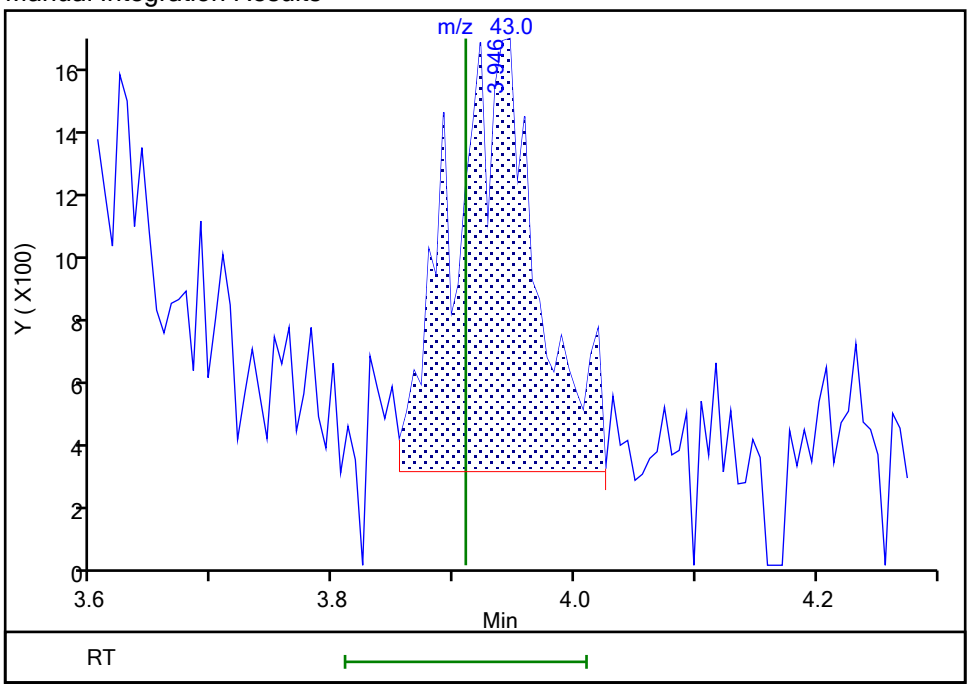
Processing Integration Results

RT: 3.95
Area: 4569
Amount: 0.348727
Amount Units: ug/l



Manual Integration Results

RT: 3.95
Area: 6605
Amount: 0.477027
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 09:54:55

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

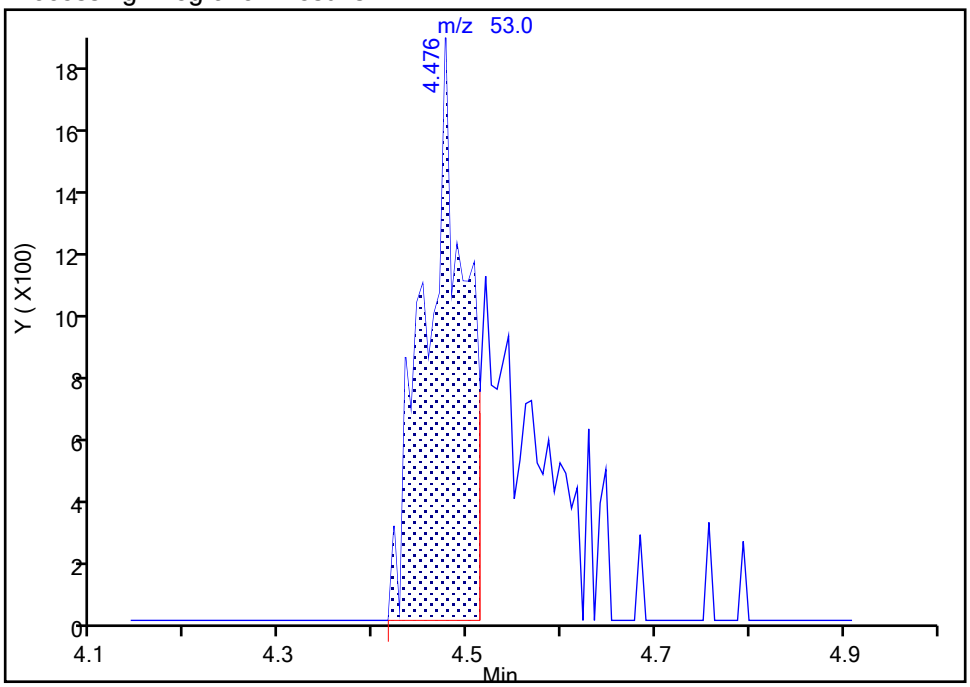
Data File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11X17.D				
Injection Date:	11-Jul-2022 18:32:30	Instrument ID:	19094		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

31 Acrylonitrile, CAS: 107-13-1

Signal: 1

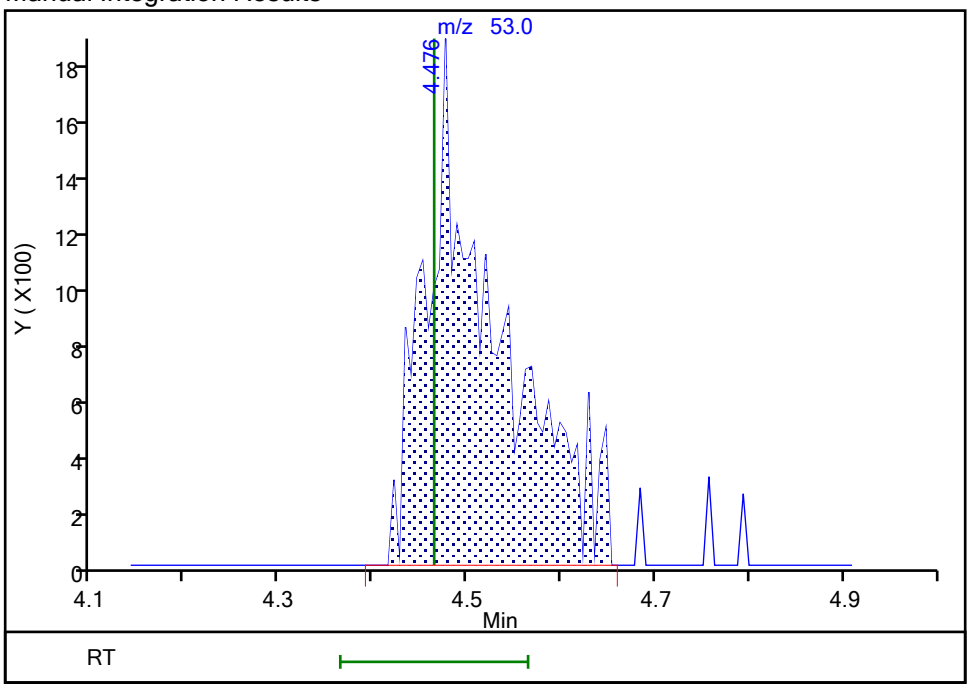
Processing Integration Results

RT: 4.48
Area: 5403
Amount: 1.079301
Amount Units: ug/l



Manual Integration Results

RT: 4.48
Area: 9691
Amount: 1.371948
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 10:11:30

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

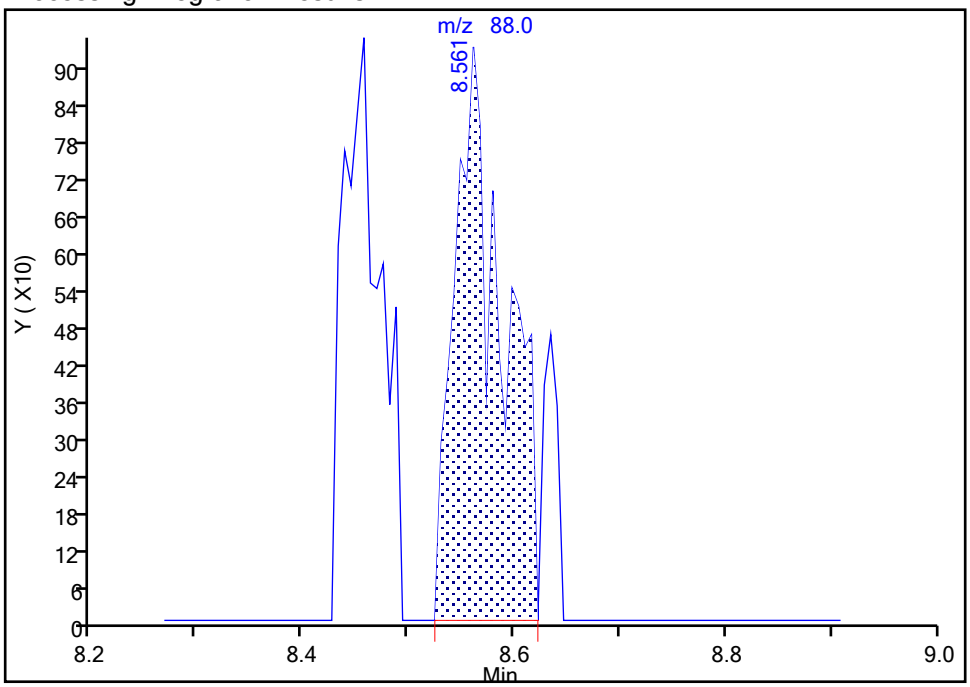
Data File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11X17.D				
Injection Date:	11-Jul-2022 18:32:30	Instrument ID:	19094		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

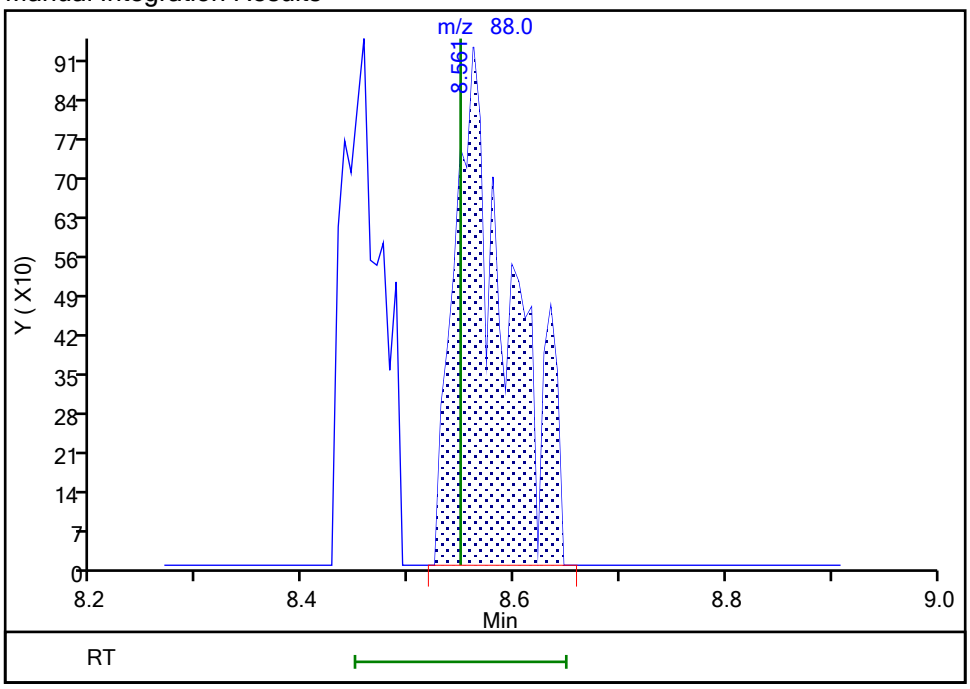
Processing Integration Results

RT: 8.56
Area: 2977
Amount: 28.394918
Amount Units: ug/l



Manual Integration Results

RT: 8.56
Area: 3415
Amount: 26.637646
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 10:13:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D
Lims ID: IC std1 0.2
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-Jul-2022 18:52:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0052505-019
Operator ID: kas02648 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 12-Jul-2022 11:51:24 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1678

First Level Reviewer: UKAD Date: 12-Jul-2022 09:59:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.922	1.940	-0.018	97	12093	0.2000	0.1893	
6 Chloromethane	50	2.117	2.129	-0.012	98	15861	0.2000	0.1982	
8 Butadiene	39	2.233	2.245	-0.012	97	16912	0.2000	0.2237	
7 Vinyl chloride	62	2.233	2.251	-0.018	85	14783	0.2000	0.1864	
9 Bromomethane	94	2.550	2.562	-0.012	92	11545	0.2000	0.2074	
10 Chloroethane	64	2.635	2.648	-0.013	98	9347	0.2000	0.1943	
11 Dichlorofluoromethane	67	2.867	2.873	-0.006	96	21148	0.2000	0.1983	
13 Trichlorofluoromethane	101	2.946	2.952	-0.006	93	17796	0.2000	0.1854	
15 Ethyl ether	59	3.172	3.154	0.018	70	7722	0.2001	0.1924	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.251	3.257	-0.006	86	14120	0.2000	0.1889	
17 Acrolein	56	3.336	3.349	-0.013	99	56027	10.0	7.98	
18 1,1-Dichloroethene	96	3.477	3.489	-0.012	97	9714	0.2000	0.1791	
19 Acetone	43	3.507	3.507	0.000	76	19892	2.00	2.43	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.513	3.519	-0.006	89	9385	0.2000	0.1774	
21 Isopropyl alcohol	45	3.611	3.660	-0.049	25	3822	4.00	5.02	M
22 Iodomethane	142	3.653	3.672	-0.019	99	17782	0.2000	0.1885	
23 Ethyl bromide	108	3.696	3.708	-0.012	96	8718	0.2000	0.1829	
24 Carbon disulfide	76	3.775	3.788	-0.013	98	27494	0.2000	0.1894	
26 Methyl acetate	43	3.946	3.910	0.036	22	4449	0.2000	0.2057	M
27 3-Chloro-1-propene	41	3.940	3.952	-0.012	94	19139	0.2000	0.2033	
* 28 t-Butyl alcohol-d10 (IS)	65	4.129	4.123	0.006	0	127772	50.0	50.0	
29 Methylene Chloride	84	4.117	4.129	-0.012	92	10350	0.2000	0.1842	
30 2-Methyl-2-propanol	59	4.239	4.275	-0.036	70	10320	4.00	3.73	
31 Acrylonitrile	53	4.476	4.464	0.012	21	3316	0.5000	0.3005	M
32 Methyl tert-butyl ether	73	4.519	4.519	0.000	93	21966	0.2000	0.1812	
33 trans-1,2-Dichloroethene	96	4.531	4.544	-0.013	96	10942	0.2000	0.1816	
34 Hexane	57	4.940	4.970	-0.030	90	16053	0.2000	0.1904	
35 1,1-Dichloroethane	63	5.196	5.202	-0.006	74	20381	0.2000	0.1810	
37 Isopropyl ether	45	5.232	5.263	-0.031	91	35599	0.2000	0.1858	
38 2-Chloro-1,3-butadiene	53	5.305	5.306	-0.001	43	16777	0.2000	0.1824	
39 Tert-butyl ethyl ether	59	5.781	5.793	-0.012	96	32074	0.2000	0.1892	

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	6.007	5.988	0.019	99	23175	2.00	1.63	
42 cis-1,2-Dichloroethene	96	6.031	6.031	0.000	80	12731	0.2000	0.1924	
43 2,2-Dichloropropane	77	6.037	6.055	-0.018	83	17016	0.2000	0.1803	
45 Propionitrile	54	6.086	6.074	0.012	95	10758	4.00	2.95	M
S 40 1,2-Dichloroethene, Total	100				0			0.3740	
47 Methacrylonitrile	67	6.293	6.293	0.000	92	23008	2.00	1.46	
48 Chlorobromomethane	128	6.360	6.360	0.000	75	5425	0.2000	0.2052	
49 Tetrahydrofuran	71	6.360	6.372	-0.012	71	3287	1.00	0.8085	
50 Chloroform	83	6.506	6.513	-0.007	92	18941	0.2000	0.1783	
$ 51 Dibromofluoromethane (Surr)	113	6.726	6.726	0.000	94	524666	10.0	9.94	
52 1,1,1-Trichloroethane	97	6.756	6.757	-0.001	93	18862	0.2000	0.1907	
53 Cyclohexane	56	6.848	6.860	-0.012	88	21247	0.2000	0.1894	
55 1,1-Dichloropropene	75	6.958	6.958	0.000	96	17380	0.2000	0.1944	
56 Carbon tetrachloride	117	6.958	6.964	-0.006	90	15638	0.2000	0.1829	
57 Isobutyl alcohol	41	7.104	7.098	0.006	94	8353	10.0	9.26	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.177	7.189	-0.012	0	97667	10.0	10.1	
59 Benzene	78	7.214	7.220	-0.006	93	49624	0.2000	0.1904	
60 1,2-Dichloroethane	62	7.287	7.293	-0.006	67	11134	0.2000	0.1972	
62 Tert-amyl methyl ether	73	7.403	7.415	-0.012	99	25747	0.2000	0.1782	
* 65 Fluorobenzene (IS)	96	7.622	7.628	-0.006	99	2085513	10.0	10.0	
64 n-Heptane	43	7.646	7.653	-0.007	36	19527	0.2000	0.2117	
66 n-Butanol	56	8.018	7.988	0.030	93	12895	17.5	16.7	
67 Trichloroethene	95	8.110	8.116	-0.006	95	13274	0.2000	0.1934	
68 Methylcyclohexane	83	8.433	8.433	0.000	94	22098	0.2000	0.1908	
70 1,2-Dichloropropane	63	8.445	8.451	-0.006	75	11924	0.2000	0.1823	
69 2-ethoxy-2-methyl butane	87	8.451	8.451	0.000	89	16495	0.2000	0.1800	
71 Methyl methacrylate	69	8.537	8.537	0.000	43	4072	0.2000	0.1298	
72 1,4-Dioxane	88	8.555	8.549	0.006	33	947	10.0	4.73	M
73 Dibromomethane	93	8.561	8.555	0.006	94	5425	0.2000	0.1992	
75 Dichlorobromomethane	83	8.793	8.799	-0.006	94	14182	0.2000	0.1926	
76 2-Nitropropane	41	9.061	9.067	-0.006	98	6354	1.00	0.8170	
79 1-Bromo-2-chloroethane	63	9.189	9.195	-0.006	96	11419	0.2000	0.1899	
80 cis-1,3-Dichloropropene	75	9.353	9.354	-0.001	96	16185	0.2000	0.1752	
81 4-Methyl-2-pentanone (MIBK)	43	9.512	9.518	-0.006	96	57049	2.00	1.48	
$ 82 Toluene-d8 (Surr)	98	9.658	9.665	-0.007	93	2255316	10.0	10.2	
83 Toluene	92	9.744	9.744	0.000	98	32116	0.2000	0.1958	
85 trans-1,3-Dichloropropene	75	10.006	10.000	0.006	90	13040	0.2000	0.1867	
S 84 1,3-Dichloropropene, Total	100				0			0.3619	
86 Ethyl methacrylate	69	10.067	10.067	0.000	83	9577	0.2000	0.1789	M
87 1,1,2-Trichloroethane	97	10.213	10.207	0.006	86	8392	0.2000	0.2160	
88 Tetrachloroethene	166	10.298	10.299	-0.001	96	14261	0.2000	0.1884	
89 1,3-Dichloropropane	76	10.378	10.372	0.006	88	12843	0.2000	0.1918	
91 2-Hexanone	43	10.426	10.420	0.006	96	35536	2.00	1.39	
93 Chlorodibromomethane	129	10.585	10.591	-0.006	88	9323	0.2000	0.1939	
94 Ethylene Dibromide	107	10.701	10.701	0.000	95	5776	0.2000	0.1623	
* 97 Chlorobenzene-d5 (IS)	117	11.134	11.134	0.000	85	1804145	10.0	10.0	
96 1-Chlorohexane	91	11.146	11.146	0.000	33	21731	0.2000	0.2144	
98 Chlorobenzene	112	11.158	11.164	-0.006	94	33865	0.2000	0.1938	
99 1,1,1,2-Tetrachloroethane	131	11.243	11.243	0.000	92	11585	0.2000	0.1933	
S 95 Xylenes, Total	106				0			0.5721	
100 Ethylbenzene	91	11.249	11.250	-0.001	98	61642	0.2000	0.1925	
101 m-Xylene & p-Xylene	106	11.365	11.365	0.000	0	46705	0.4000	0.3825	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 o-Xylene	106	11.694	11.695	-0.001	96	22378	0.2000	0.1896	
103 Styrene	104	11.713	11.713	0.000	96	33946	0.2000	0.1773	
104 Bromoform	173	11.871	11.871	0.000	96	4931	0.2000	0.1780	
105 Isopropylbenzene	105	11.993	11.999	-0.006	95	59579	0.2000	0.1867	
$ 108 4-Bromofluorobenzene (Surr)	95	12.140	12.140	0.000	91	897535	10.0	10.0	
109 1,1,2,2-Tetrachloroethane	83	12.243	12.243	0.000	91	8357	0.2000	0.1825	
111 Bromobenzene	156	12.255	12.262	-0.007	90	13159	0.2000	0.1920	
110 trans-1,4-Dichloro-2-butene	53	12.268	12.268	0.000	92	19002	2.00	1.43	
112 1,2,3-Trichloropropane	110	12.292	12.292	0.000	76	2053	0.2000	0.1786	
113 N-Propylbenzene	91	12.328	12.329	-0.001	99	70175	0.2000	0.1836	
114 2-Chlorotoluene	126	12.402	12.402	0.000	96	13760	0.2000	0.1871	
115 1,3,5-Trimethylbenzene	105	12.463	12.463	0.000	93	49390	0.2000	0.1853	
116 4-Chlorotoluene	126	12.499	12.493	0.006	96	13230	0.2000	0.1791	
118 tert-Butylbenzene	134	12.706	12.707	-0.001	92	10722	0.2000	0.1819	
119 Pentachloroethane	167	12.737	12.737	0.000	82	7445	0.2000	0.1798	
120 1,2,4-Trimethylbenzene	105	12.749	12.749	0.000	96	50131	0.2000	0.1864	
121 sec-Butylbenzene	105	12.871	12.871	0.000	94	67287	0.2000	0.1927	
122 1,3-Dichlorobenzene	146	12.969	12.969	0.000	98	27316	0.2000	0.1924	
123 4-Isopropyltoluene	119	12.975	12.975	0.000	97	57362	0.2000	0.1917	
* 124 1,4-Dichlorobenzene-d4	152	13.023	13.024	-0.001	94	1000650	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.042	13.042	0.000	93	27701	0.2000	0.1966	
126 1,2,3-Trimethylbenzene	120	13.054	13.054	0.000	96	23143	0.2000	0.2018	
127 Benzyl chloride	126	13.127	13.121	0.006	97	3379	0.2000	0.1815	
129 p-Diethylbenzene	119	13.176	13.176	0.000	91	31975	0.2000	0.1848	
130 n-Butylbenzene	92	13.267	13.267	0.000	98	29597	0.2000	0.1959	
131 1,2-Dichlorobenzene	146	13.304	13.304	0.000	97	24746	0.2000	0.1968	
134 1,2-Dibromo-3-Chloropropane	155	13.846	13.847	-0.001	83	829	0.2000	0.1372	
135 1,3,5-Trichlorobenzene	180	13.975	13.969	0.005	97	20738	0.2000	0.1878	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	17418	0.2000	0.1874	
137 Hexachlorobutadiene	225	14.474	14.475	-0.001	93	11211	0.2000	0.2483	
138 Naphthalene	128	14.578	14.572	0.006	97	28721	0.2000	0.1913	
139 1,2,3-Trichlorobenzene	180	14.718	14.712	0.006	93	14798	0.2000	0.1875	
140 2-Methylnaphthalene	142	15.340	15.340	0.000	94	18442	0.2000	0.2041	
194 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_00049	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00101	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00053	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 12-Jul-2022 11:51:25 Chrom Revision: 2.3 08-Jul-2022 13:26:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Injection Date: 11-Jul-2022 18:52:30 Instrument ID: 19094 Operator ID: kas02648

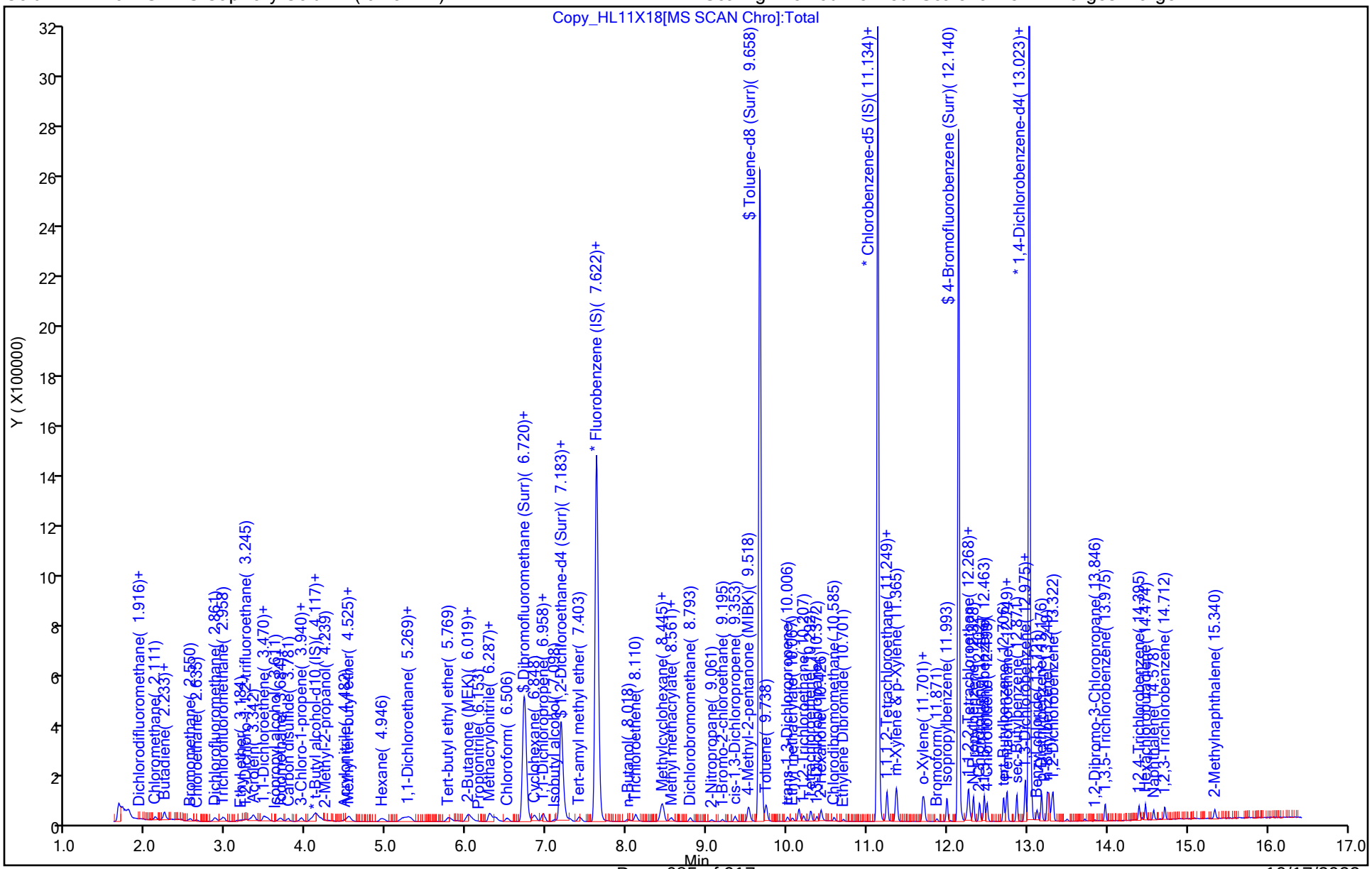
Lims ID: IC std1 0.2 Worklist Smp#: 18

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 18

Method: MSV_19094_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

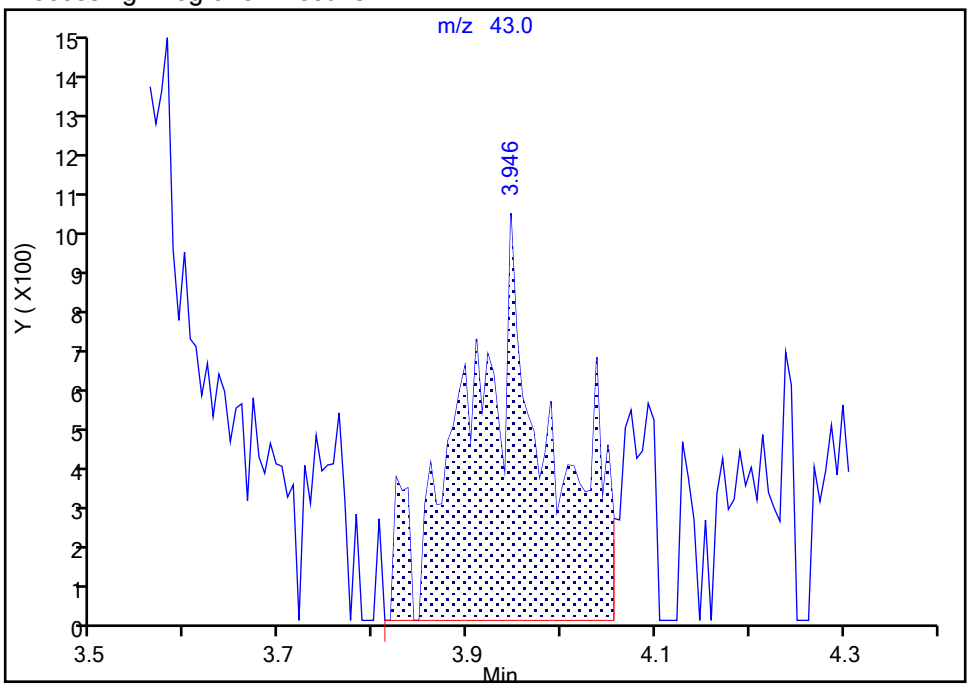
Data File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Injection Date:	11-Jul-2022 18:52:30	Instrument ID:	19094		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

26 Methyl acetate, CAS: 79-20-9

Signal: 1

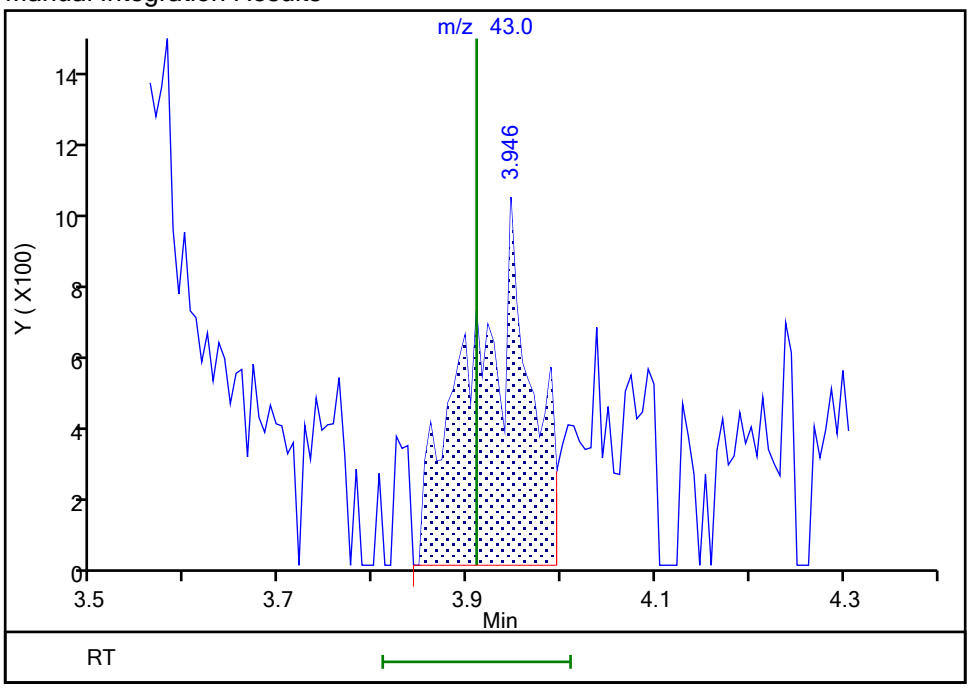
Processing Integration Results

RT: 3.95
Area: 6208
Amount: 0.271247
Amount Units: ug/l



Manual Integration Results

RT: 3.95
Area: 4449
Amount: 0.205683
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 09:57:38
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

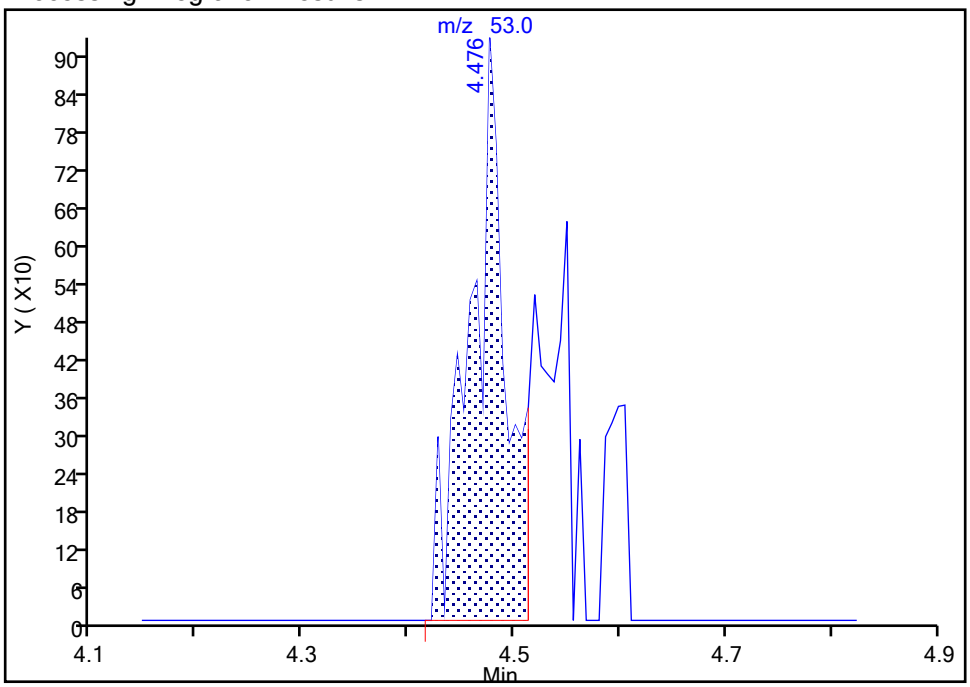
Data File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Injection Date:	11-Jul-2022 18:52:30	Instrument ID:	19094		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

31 Acrylonitrile, CAS: 107-13-1

Signal: 1

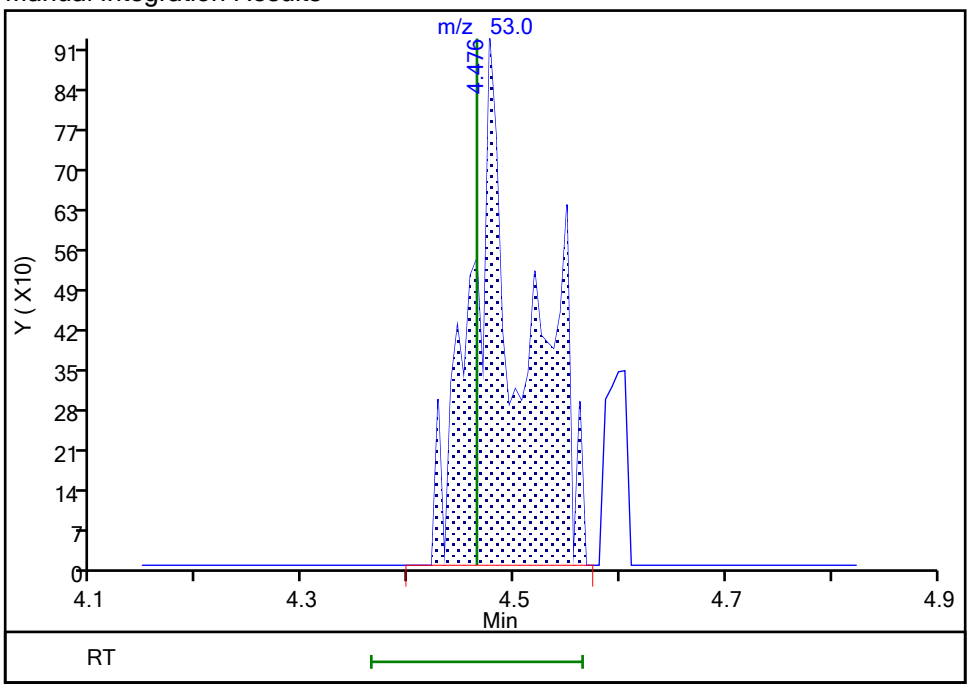
Processing Integration Results

RT: 4.48
Area: 2201
Amount: 0.454116
Amount Units: ug/l



Manual Integration Results

RT: 4.48
Area: 3316
Amount: 0.300503
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 10:11:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

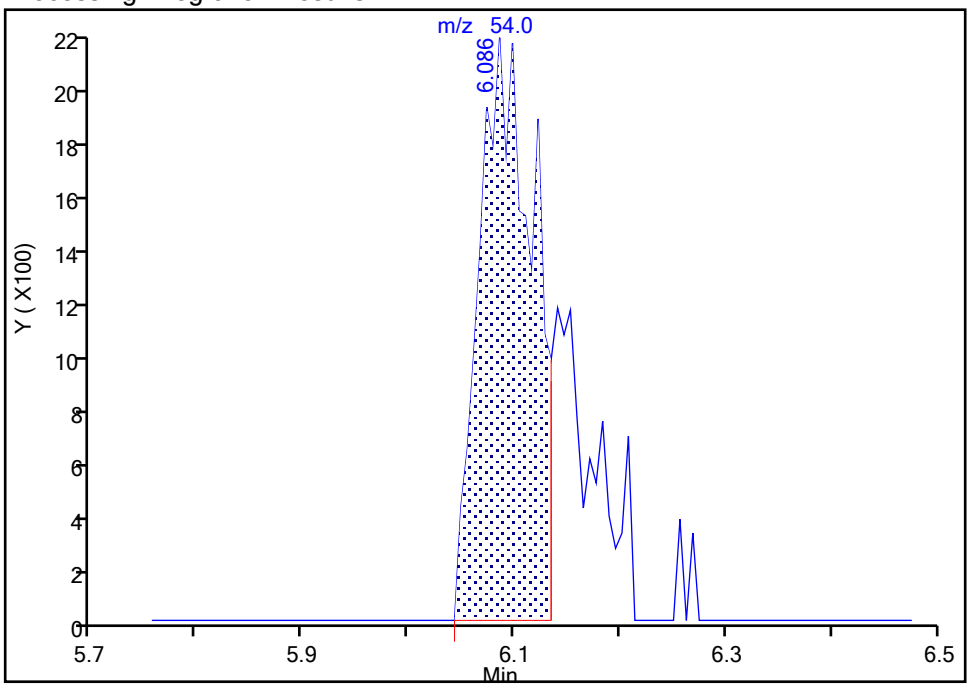
Data File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Injection Date:	11-Jul-2022 18:52:30	Instrument ID:	19094		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

45 Propionitrile, CAS: 107-12-0

Signal: 1

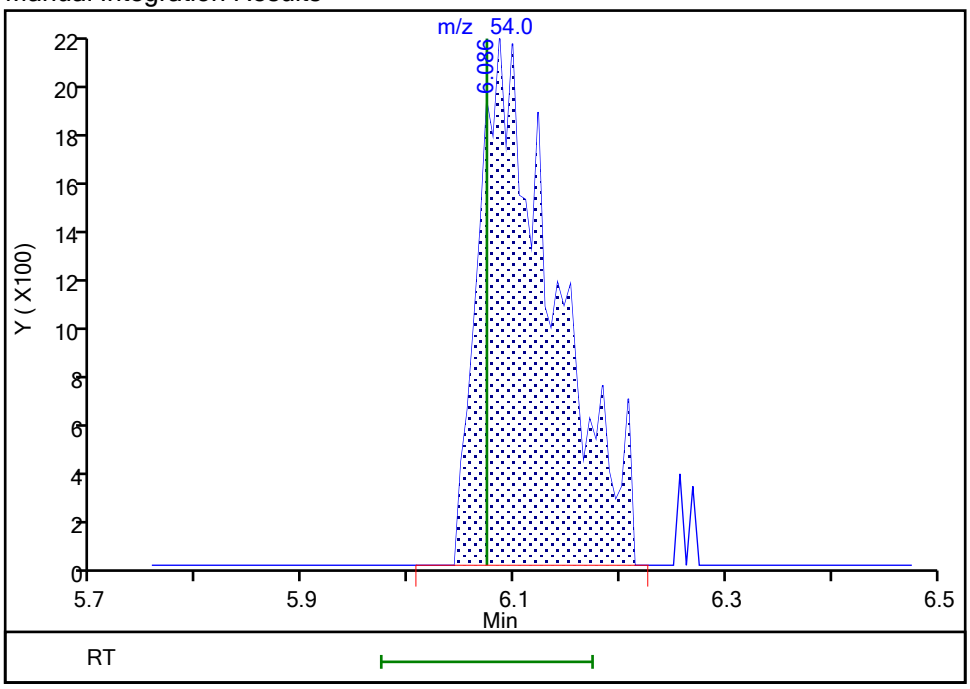
Processing Integration Results

RT: 6.09
Area: 7805
Amount: 2.135891
Amount Units: ug/l



Manual Integration Results

RT: 6.09
Area: 10758
Amount: 2.950262
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 09:57:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

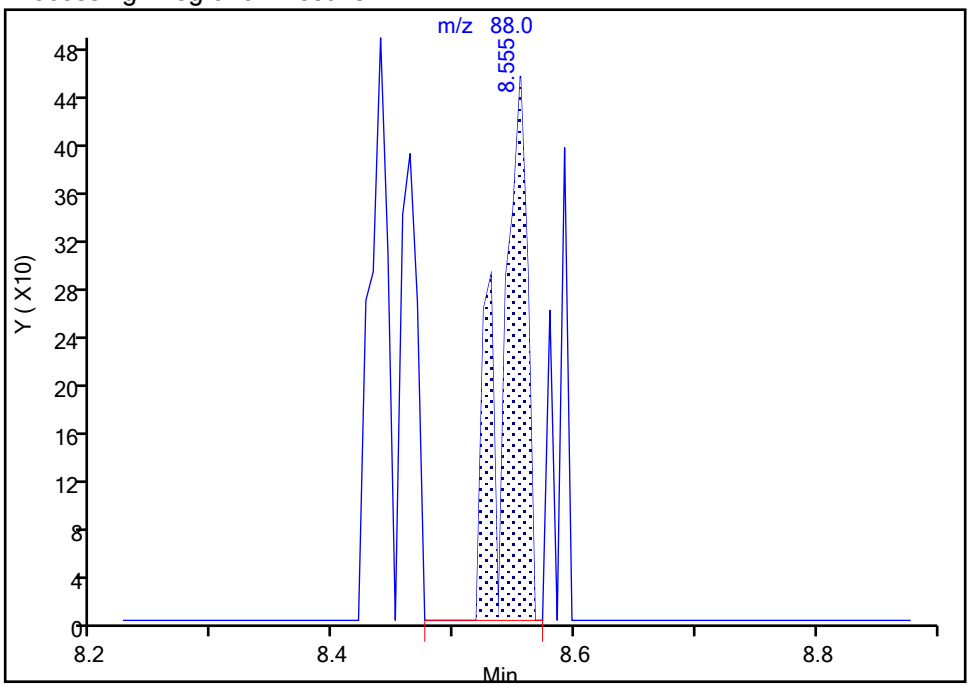
Data File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Injection Date:	11-Jul-2022 18:52:30	Instrument ID:	19094		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

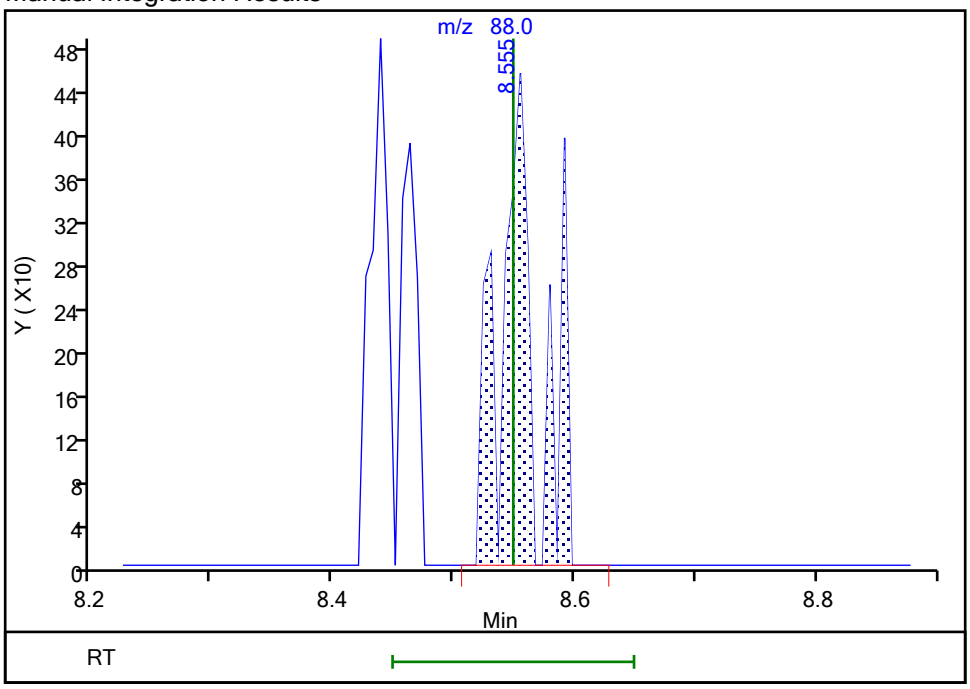
Processing Integration Results

RT: 8.55
Area: 707
Amount: 4.408933
Amount Units: ug/l



Manual Integration Results

RT: 8.55
Area: 947
Amount: 4.728459
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 09:58:10

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

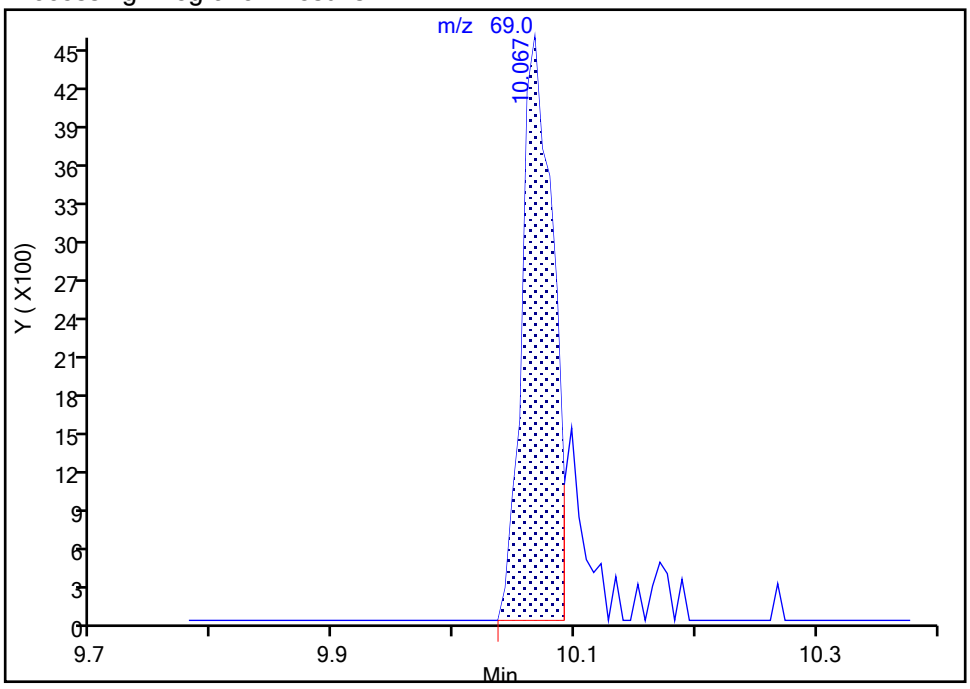
Data File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Injection Date:	11-Jul-2022 18:52:30	Instrument ID:	19094		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

86 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

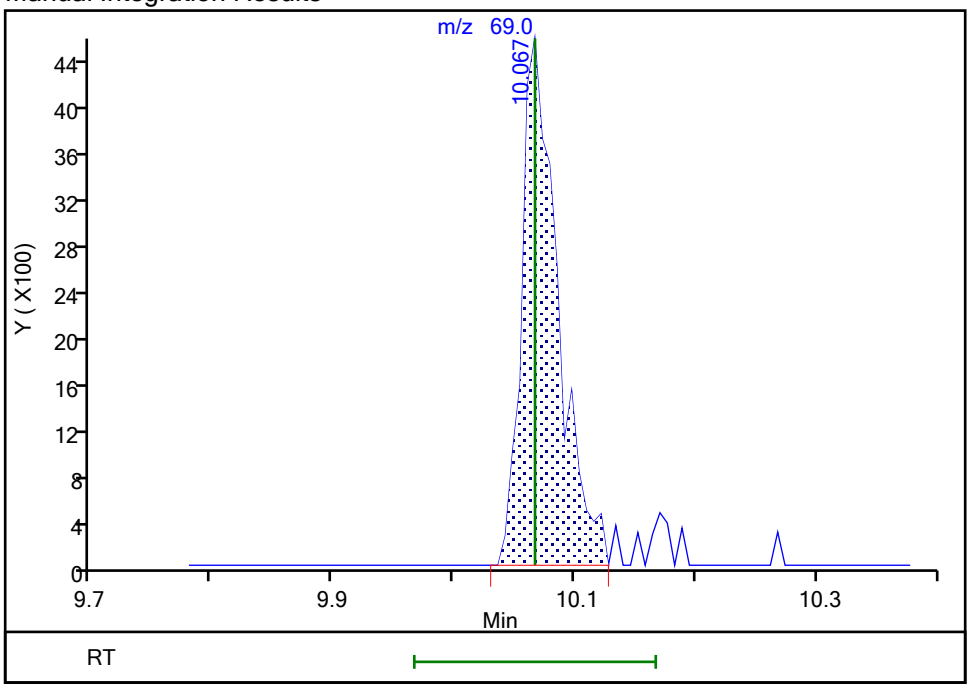
Processing Integration Results

RT: 10.07
Area: 8246
Amount: 0.156824
Amount Units: ug/l



Manual Integration Results

RT: 10.07
Area: 9577
Amount: 0.178902
Amount Units: ug/l



Reviewer: UKAD, 12-Jul-2022 09:58:23

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

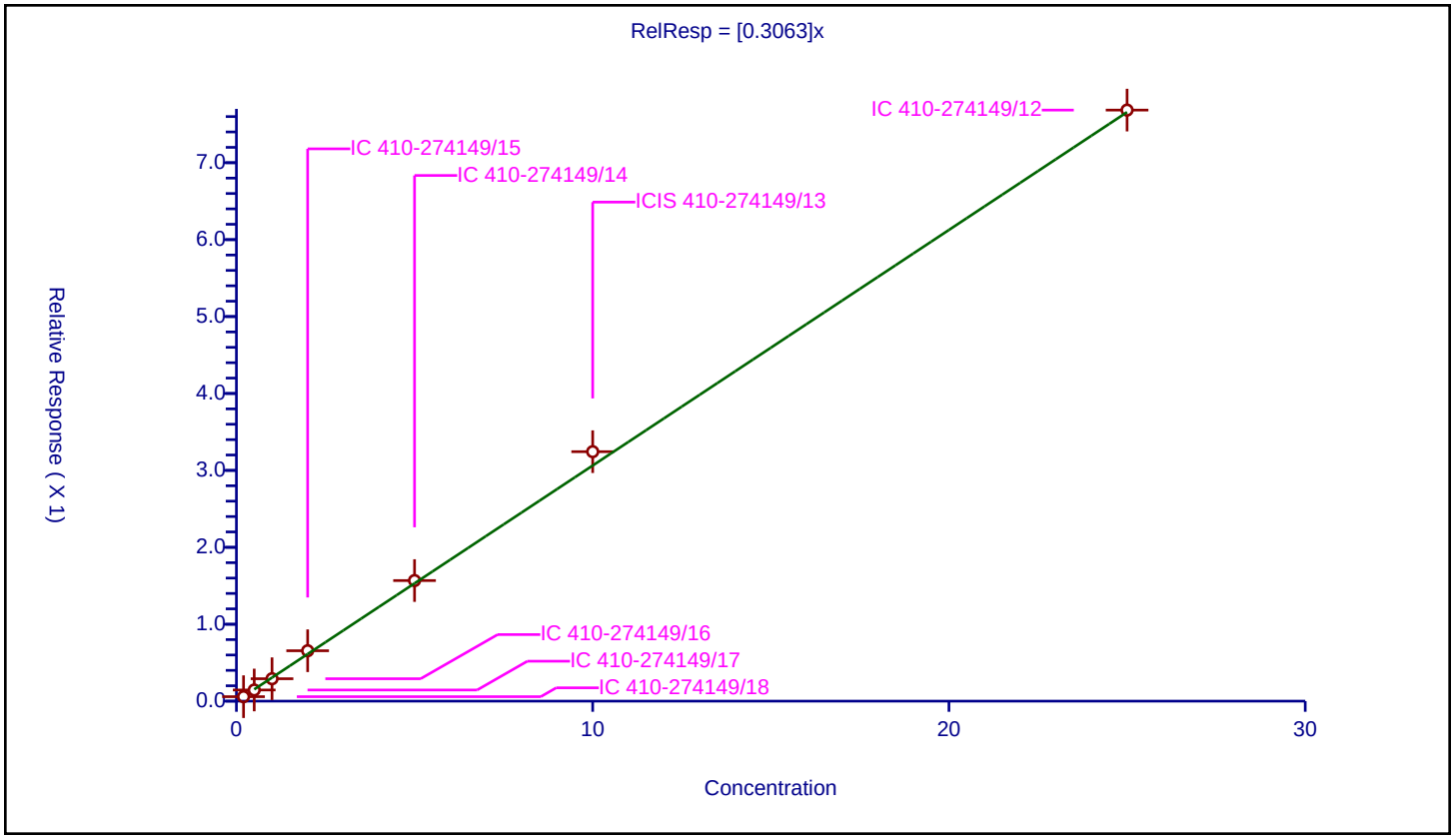
Curve Coefficients

Intercept:	0
Slope:	0.3063

Error Coefficients

Standard Error:	739000
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 410-274149/18	0.2	0.057986	10.0	2085513.0	0.289929	Y
2	IC 410-274149/17	0.5	0.144923	10.0	2031490.0	0.289846	Y
3	IC 410-274149/16	1.0	0.29154	10.0	2037557.0	0.29154	Y
4	IC 410-274149/15	2.0	0.655174	10.0	2031307.0	0.327587	Y
5	IC 410-274149/14	5.0	1.567894	10.0	2106074.0	0.313579	Y
6	ICIS 410-274149/13	10.0	3.243246	10.0	2081655.0	0.324325	Y
7	IC 410-274149/12	25.0	7.68452	10.0	2132698.0	0.307381	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

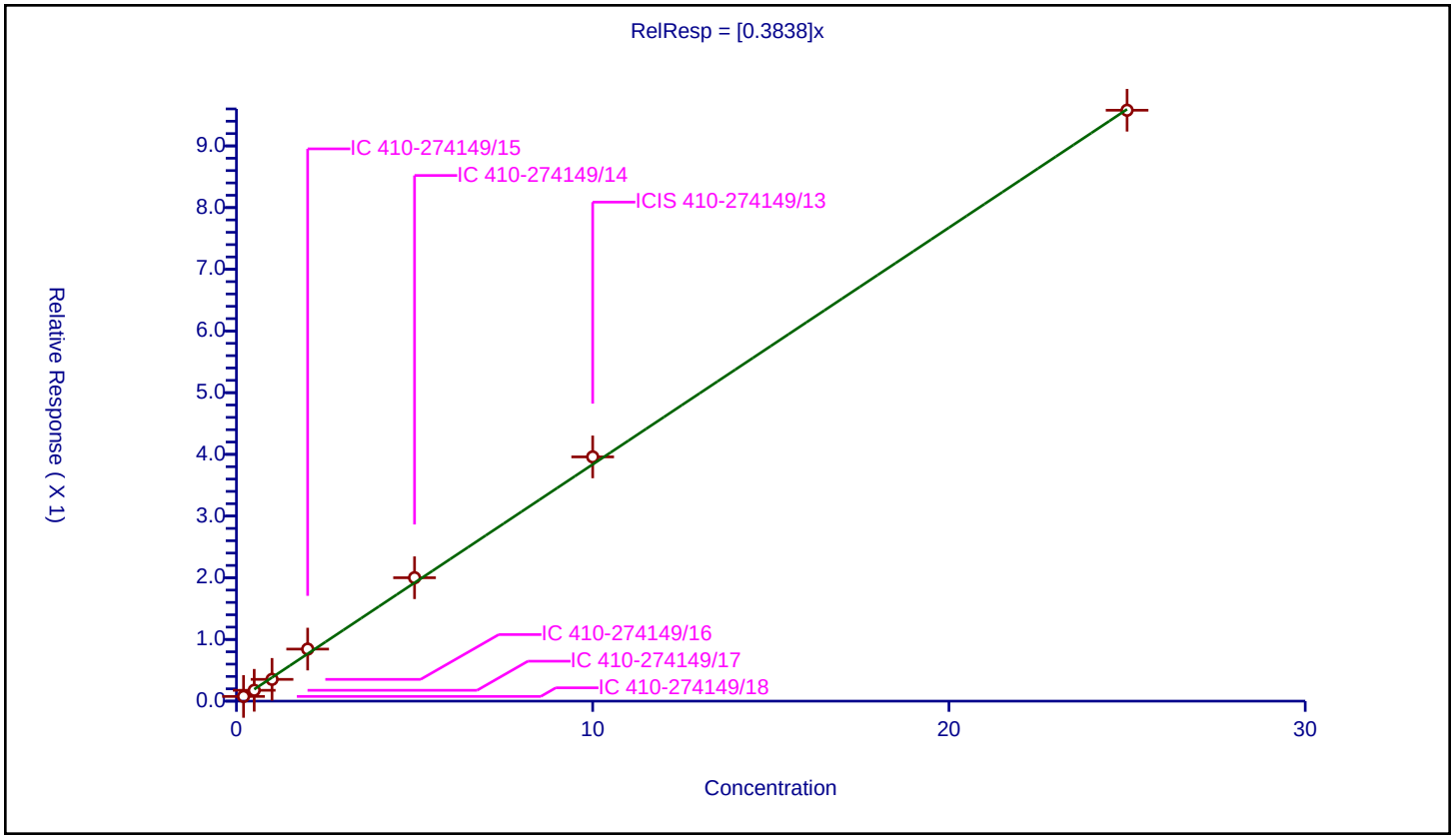
Curve Coefficients

Intercept:	0
Slope:	0.3838

Error Coefficients

Standard Error:	919000
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 410-274149/18	0.2	0.076053	10.0	2085513.0	0.380266	Y
2	IC 410-274149/17	0.5	0.176048	10.0	2031490.0	0.352096	Y
3	IC 410-274149/16	1.0	0.352982	10.0	2037557.0	0.352982	Y
4	IC 410-274149/15	2.0	0.843619	10.0	2031307.0	0.42181	Y
5	IC 410-274149/14	5.0	2.000409	10.0	2106074.0	0.400082	Y
6	ICIS 410-274149/13	10.0	3.959162	10.0	2081655.0	0.395916	Y
7	IC 410-274149/12	25.0	9.578281	10.0	2132698.0	0.383131	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

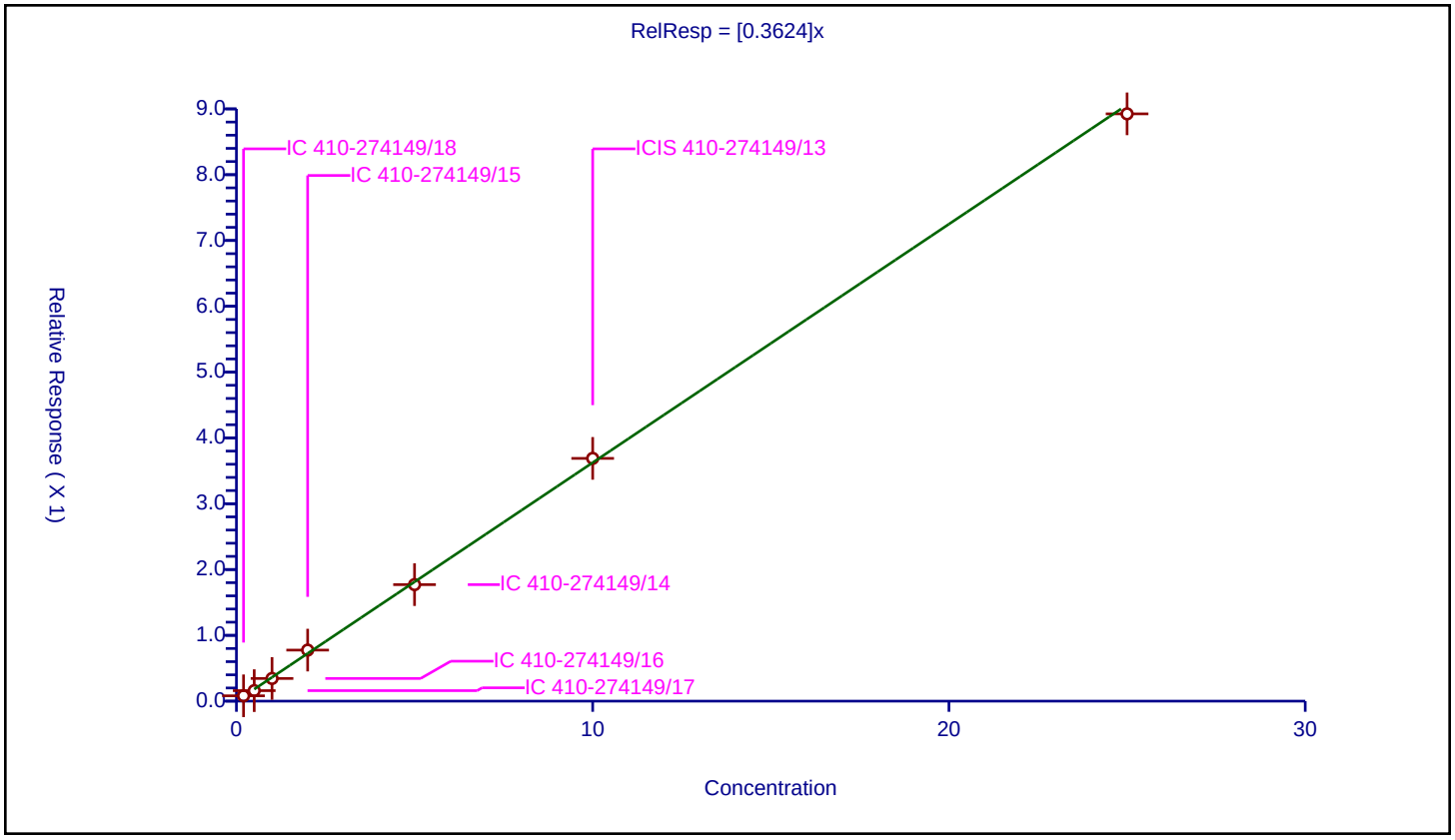
Curve Coefficients

Intercept:	0
Slope:	0.3624

Error Coefficients

Standard Error:	855000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	0.081093	10.0	2085513.0	0.405464	Y
2	IC 410-274149/17	0.5	0.159656	10.0	2031490.0	0.319312	Y
3	IC 410-274149/16	1.0	0.34452	10.0	2037557.0	0.34452	Y
4	IC 410-274149/15	2.0	0.775781	10.0	2031307.0	0.387891	Y
5	IC 410-274149/14	5.0	1.770337	10.0	2106074.0	0.354067	Y
6	ICIS 410-274149/13	10.0	3.689089	10.0	2081655.0	0.368909	Y
7	IC 410-274149/12	25.0	8.924663	10.0	2132698.0	0.356987	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

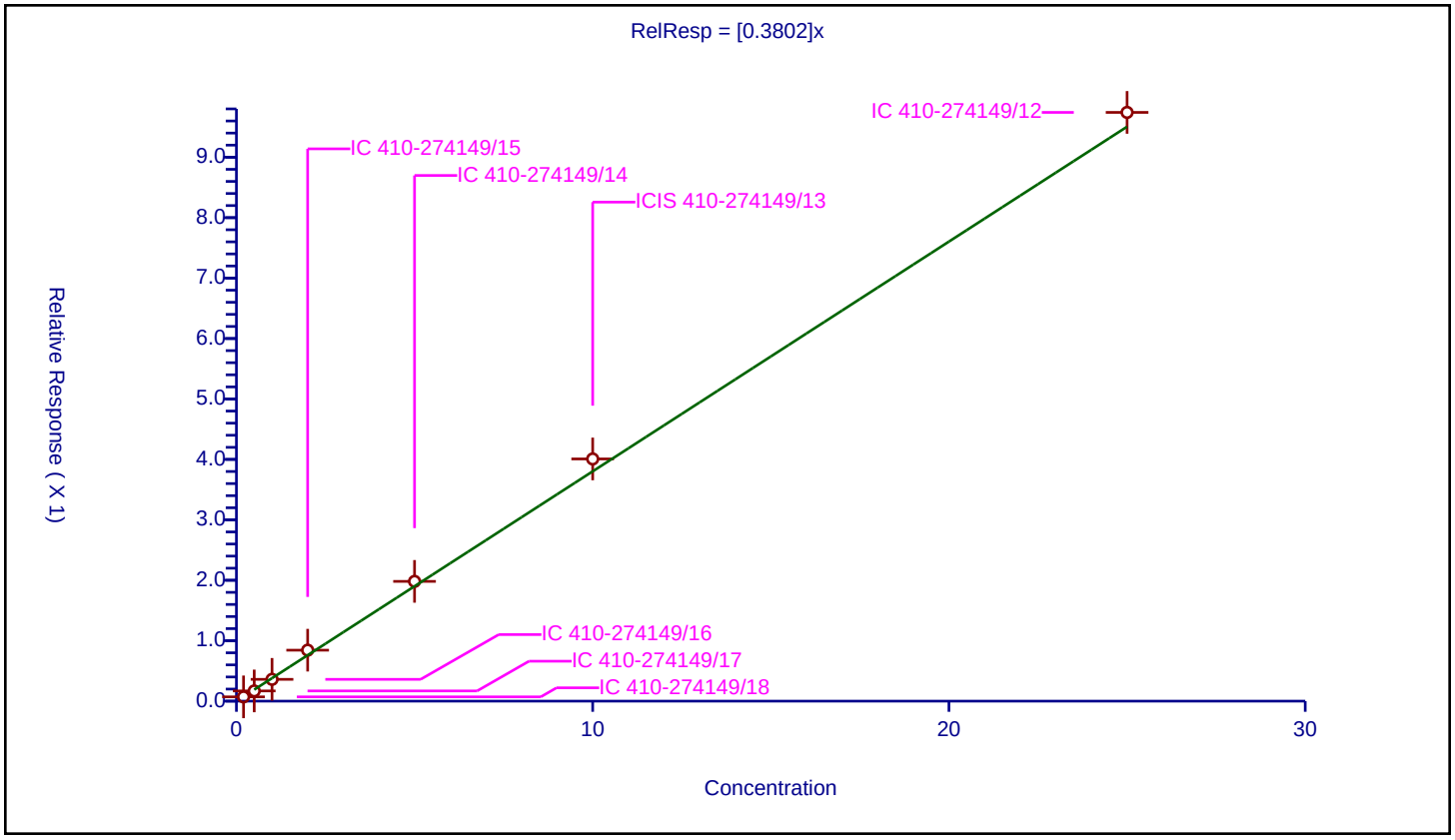
Curve Coefficients

Intercept:	0
Slope:	0.3802

Error Coefficients

Standard Error:	933000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	0.070884	10.0	2085513.0	0.354421	Y
2	IC 410-274149/17	0.5	0.168984	10.0	2031490.0	0.337969	Y
3	IC 410-274149/16	1.0	0.360559	10.0	2037557.0	0.360559	Y
4	IC 410-274149/15	2.0	0.843368	10.0	2031307.0	0.421684	Y
5	IC 410-274149/14	5.0	1.98182	10.0	2106074.0	0.396364	Y
6	ICIS 410-274149/13	10.0	4.007864	10.0	2081655.0	0.400786	Y
7	IC 410-274149/12	25.0	9.741675	10.0	2132698.0	0.389667	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

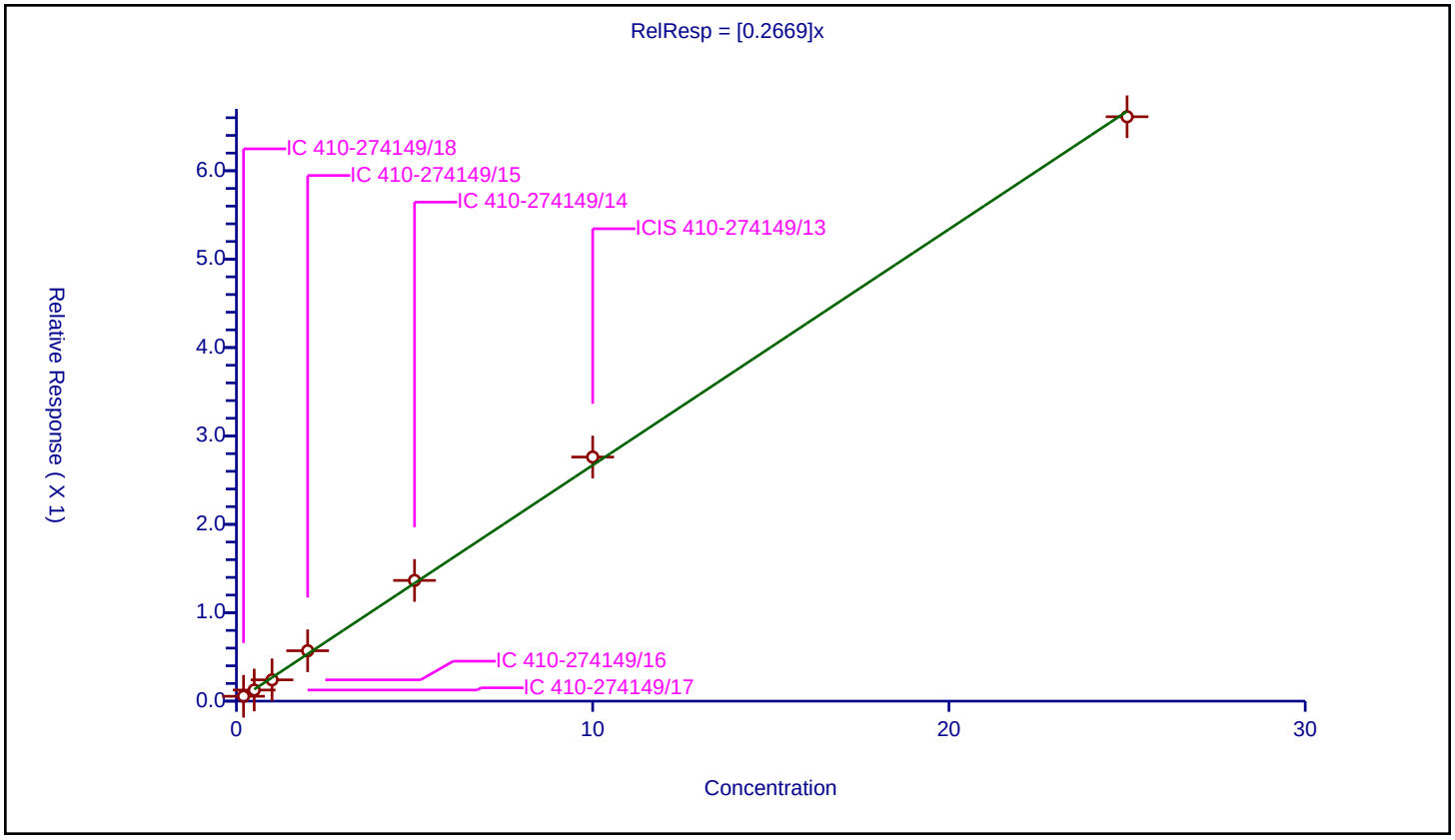
Curve Coefficients

Intercept:	0
Slope:	0.2669

Error Coefficients

Standard Error:	635000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	0.055358	10.0	2085513.0	0.27679	Y
2	IC 410-274149/17	0.5	0.125927	10.0	2031490.0	0.251855	Y
3	IC 410-274149/16	1.0	0.240867	10.0	2037557.0	0.240867	Y
4	IC 410-274149/15	2.0	0.570283	10.0	2031307.0	0.285142	Y
5	IC 410-274149/14	5.0	1.365579	10.0	2106074.0	0.273116	Y
6	ICIS 410-274149/13	10.0	2.761596	10.0	2081655.0	0.27616	Y
7	IC 410-274149/12	25.0	6.610969	10.0	2132698.0	0.264439	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

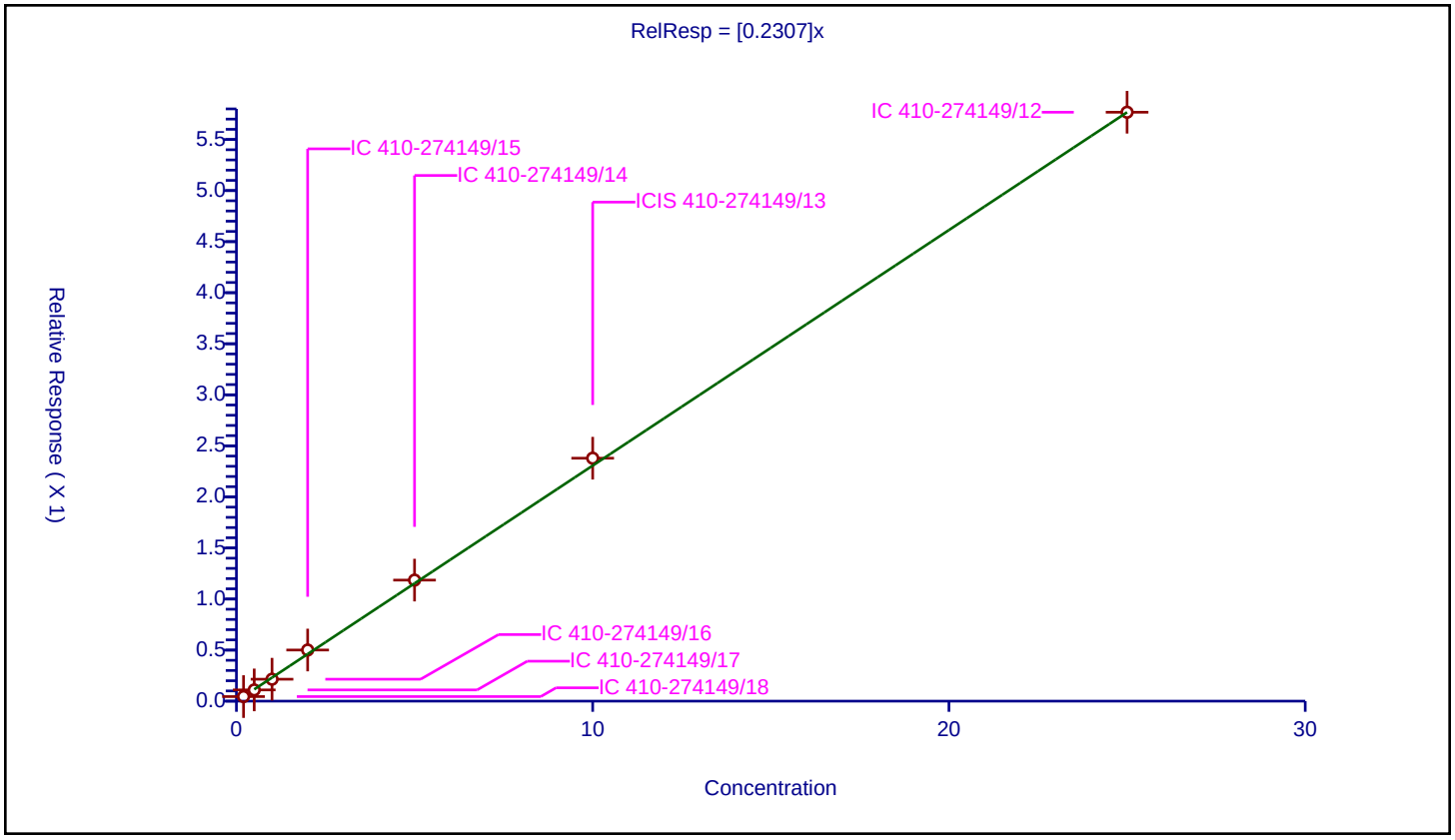
Curve Coefficients

Intercept:	0
Slope:	0.2307

Error Coefficients

Standard Error:	553000
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 410-274149/18	0.2	0.044819	10.0	2085513.0	0.224094	Y
2	IC 410-274149/17	0.5	0.10988	10.0	2031490.0	0.21976	Y
3	IC 410-274149/16	1.0	0.214806	10.0	2037557.0	0.214806	Y
4	IC 410-274149/15	2.0	0.500697	10.0	2031307.0	0.250349	Y
5	IC 410-274149/14	5.0	1.18531	10.0	2106074.0	0.237062	Y
6	ICIS 410-274149/13	10.0	2.379285	10.0	2081655.0	0.237928	Y
7	IC 410-274149/12	25.0	5.767366	10.0	2132698.0	0.230695	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

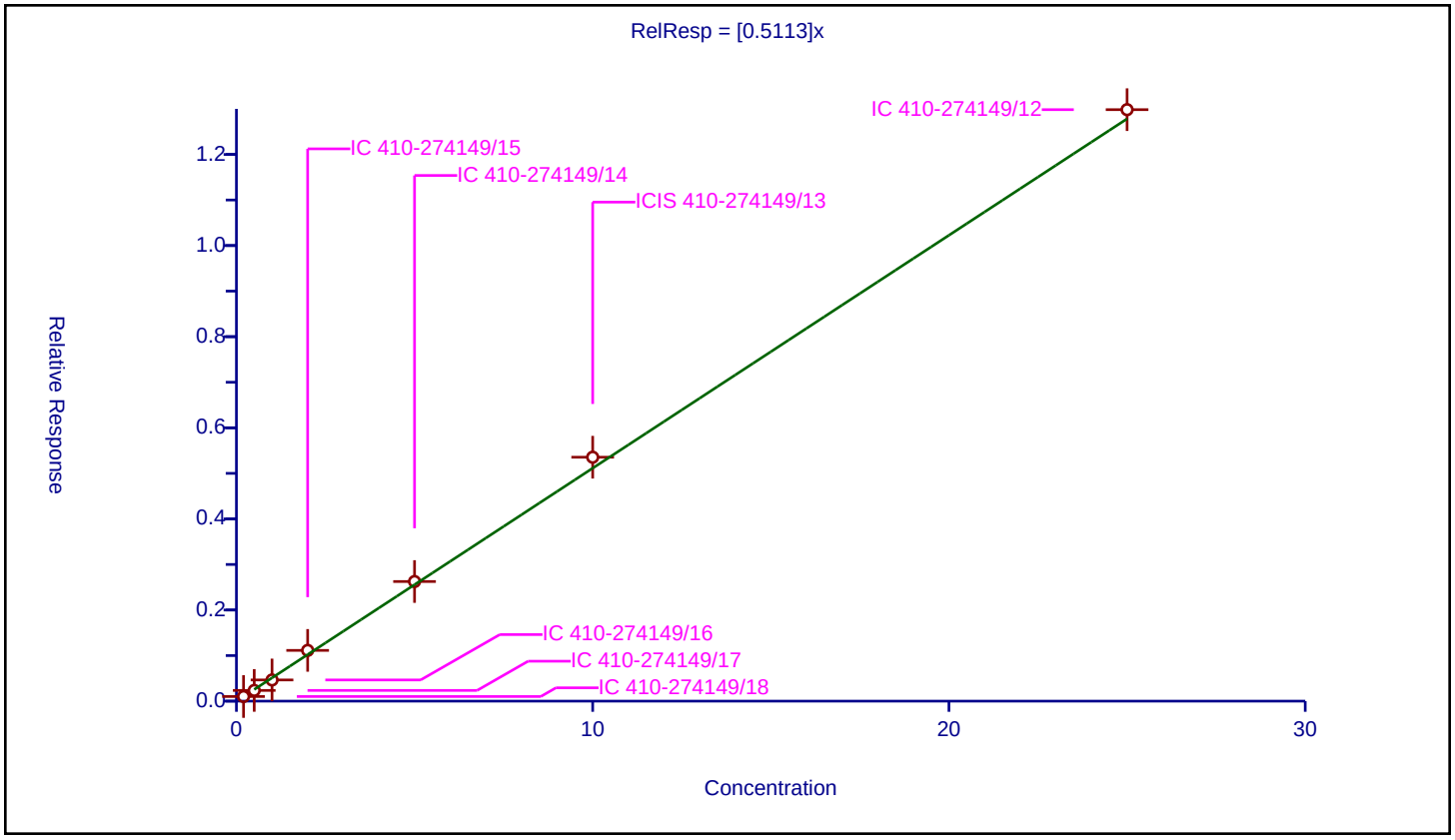
Curve Coefficients

Intercept:	0
Slope:	0.5113

Error Coefficients

Standard Error:	1240000
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 410-274149/18	0.2	0.101404	10.0	2085513.0	0.507022	Y
2	IC 410-274149/17	0.5	0.235212	10.0	2031490.0	0.470423	Y
3	IC 410-274149/16	1.0	0.464851	10.0	2037557.0	0.464851	Y
4	IC 410-274149/15	2.0	1.114032	10.0	2031307.0	0.557016	Y
5	IC 410-274149/14	5.0	2.625639	10.0	2106074.0	0.525128	Y
6	ICIS 410-274149/13	10.0	5.354173	10.0	2081655.0	0.535417	Y
7	IC 410-274149/12	25.0	12.983221	10.0	2132698.0	0.519329	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

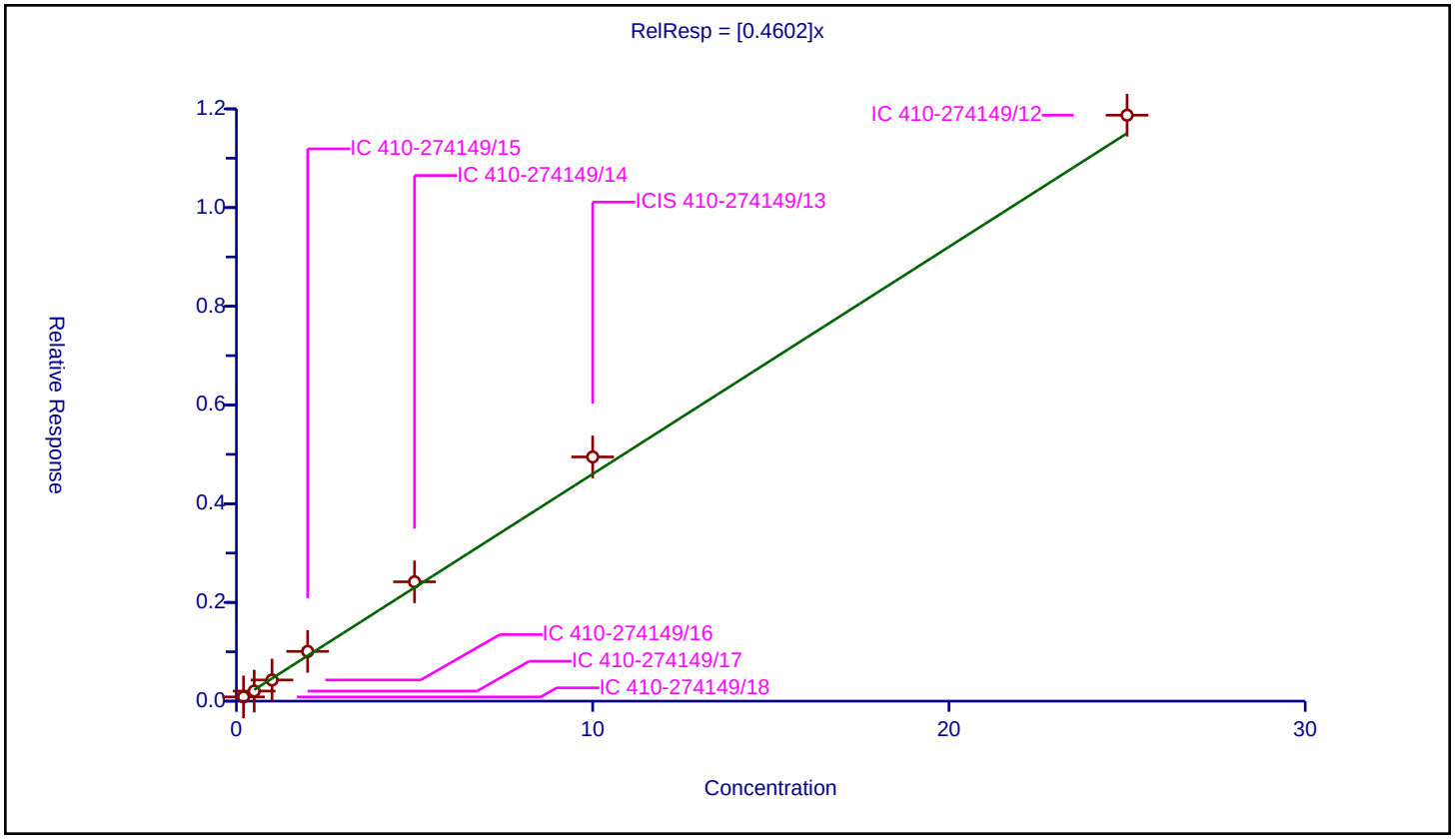
Curve Coefficients

Intercept:	0
Slope:	0.4602

Error Coefficients

Standard Error:	1140000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	0.085332	10.0	2085513.0	0.426658	Y
2	IC 410-274149/17	0.5	0.204338	10.0	2031490.0	0.408675	Y
3	IC 410-274149/16	1.0	0.428999	10.0	2037557.0	0.428999	Y
4	IC 410-274149/15	2.0	1.007947	10.0	2031307.0	0.503974	Y
5	IC 410-274149/14	5.0	2.417921	10.0	2106074.0	0.483584	Y
6	ICIS 410-274149/13	10.0	4.948077	10.0	2081655.0	0.494808	Y
7	IC 410-274149/12	25.0	11.872004	10.0	2132698.0	0.47488	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

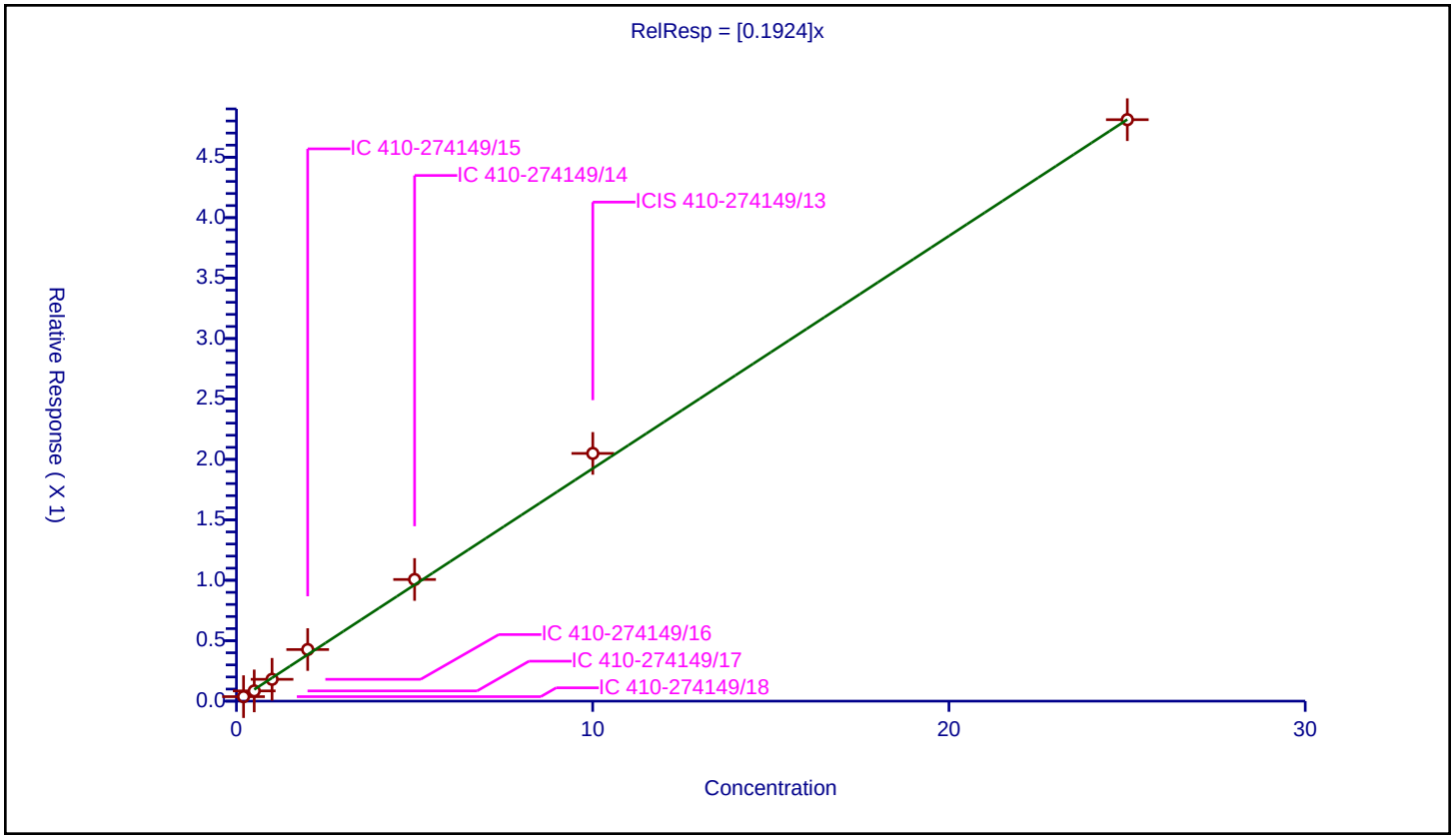
Curve Coefficients

Intercept:	0
Slope:	0.1924

Error Coefficients

Standard Error:	463000
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 410-274149/18	0.200057	0.037027	10.0	2085513.0	0.185081	Y
2	IC 410-274149/17	0.500143	0.08482	10.0	2031490.0	0.169591	Y
3	IC 410-274149/16	1.000286	0.18051	10.0	2037557.0	0.180459	Y
4	IC 410-274149/15	2.000572	0.426873	10.0	2031307.0	0.213375	Y
5	IC 410-274149/14	5.00143	1.006536	10.0	2106074.0	0.20125	Y
6	ICIS 410-274149/13	10.00286	2.049581	10.0	2081655.0	0.204899	Y
7	IC 410-274149/12	25.00715	4.81069	10.0	2132698.0	0.192373	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

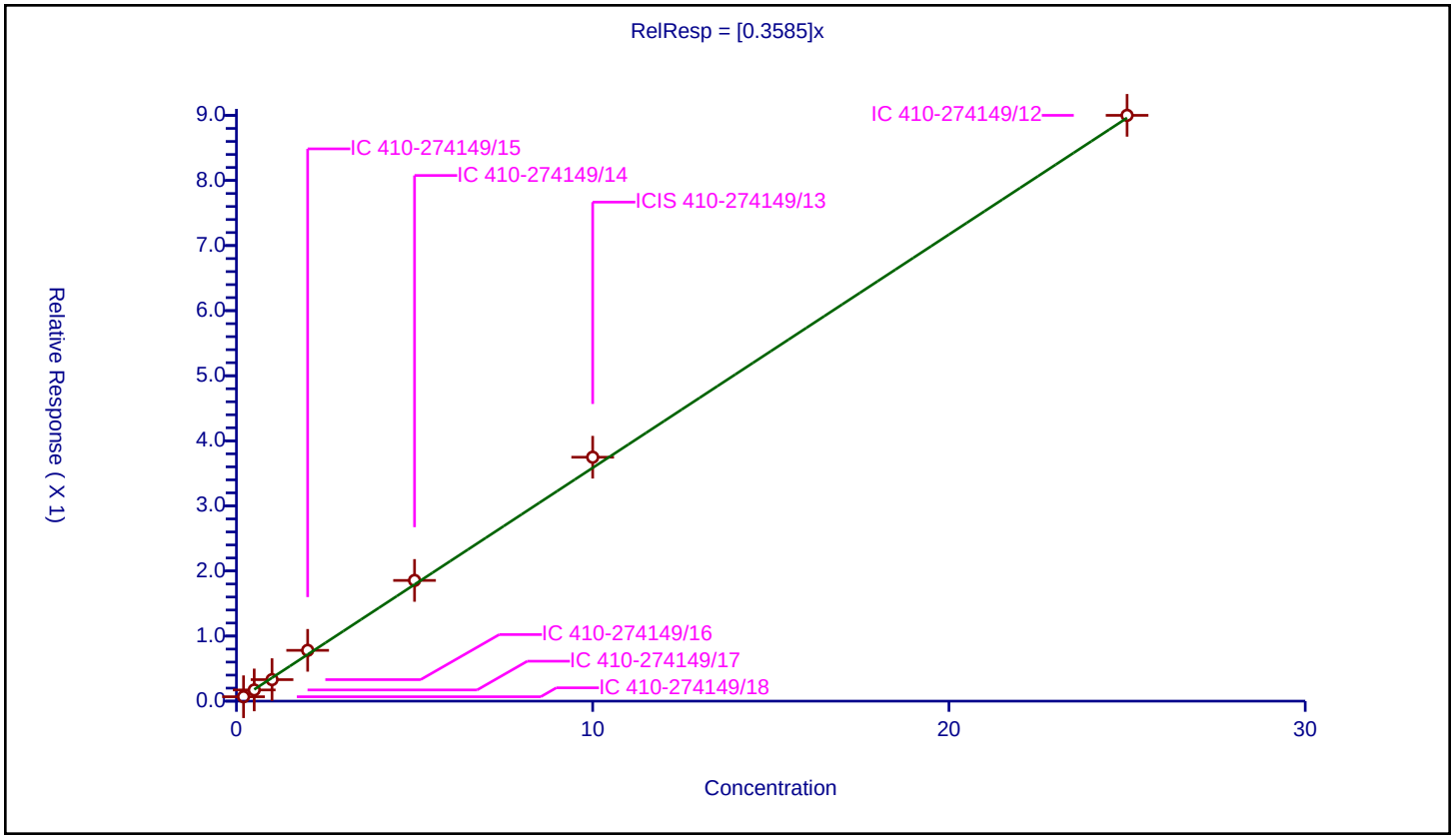
Curve Coefficients

Intercept:	0
Slope:	0.3585

Error Coefficients

Standard Error:	864000
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 410-274149/18	0.2	0.067705	10.0	2085513.0	0.338526	Y
2	IC 410-274149/17	0.5	0.172169	10.0	2031490.0	0.344338	Y
3	IC 410-274149/16	1.0	0.330484	10.0	2037557.0	0.330484	Y
4	IC 410-274149/15	2.0	0.780497	10.0	2031307.0	0.390249	Y
5	IC 410-274149/14	5.0	1.854968	10.0	2106074.0	0.370994	Y
6	ICIS 410-274149/13	10.0	3.748075	10.0	2081655.0	0.374808	Y
7	IC 410-274149/12	25.0	9.00096	10.0	2132698.0	0.360038	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

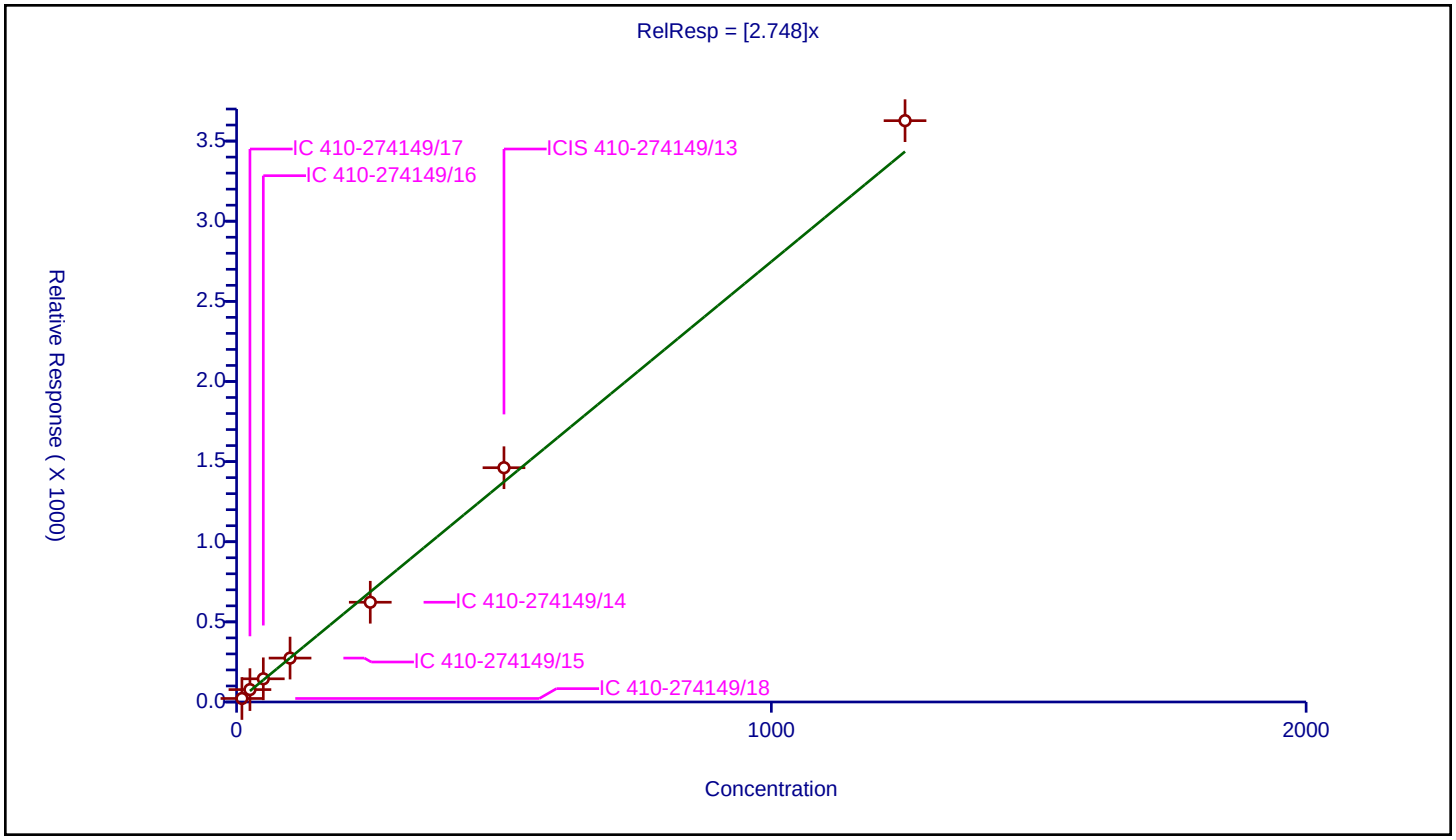
Curve Coefficients

Intercept:	0
Slope:	2.748

Error Coefficients

Standard Error:	3180000
Relative Standard Error:	11.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	10.000019	21.9246	50.0	127772.0	2.192456	Y
2	IC 410-274149/17	25.000046	77.33097	50.0	81790.0	3.093233	Y
3	IC 410-274149/16	50.000093	144.617876	50.0	87066.0	2.892352	Y
4	IC 410-274149/15	100.000185	274.027753	50.0	107663.0	2.740272	Y
5	IC 410-274149/14	250.000463	622.425708	50.0	120975.0	2.489698	Y
6	ICIS 410-274149/13	500.000926	1461.841768	50.0	101370.0	2.923678	Y
7	IC 410-274149/12	1250.002314	3627.277049	50.0	96770.0	2.901816	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

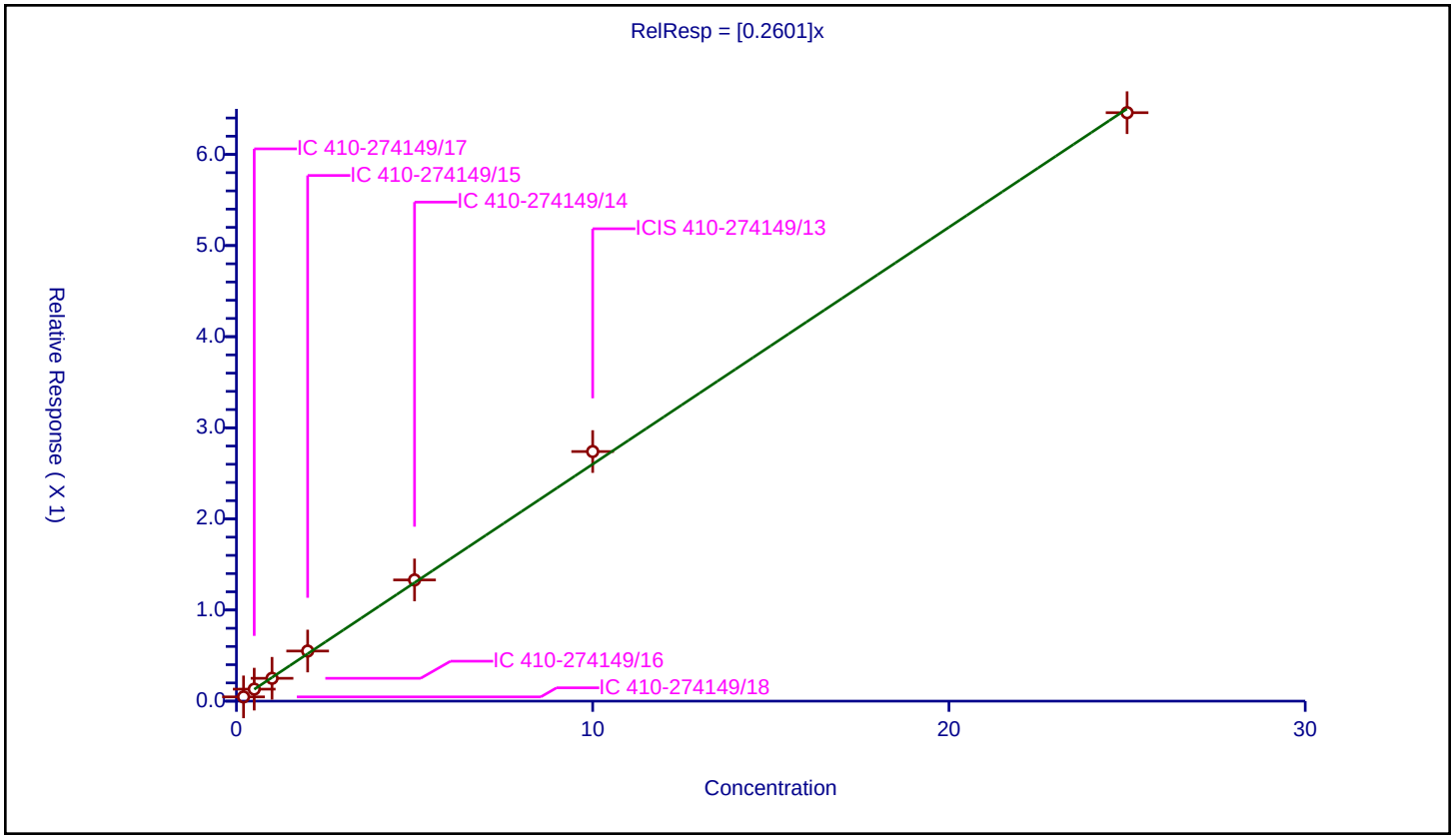
Curve Coefficients

Intercept:	0
Slope:	0.2601

Error Coefficients

Standard Error:	621000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	0.046578	10.0	2085513.0	0.232892	Y
2	IC 410-274149/17	0.5	0.131815	10.0	2031490.0	0.263629	Y
3	IC 410-274149/16	1.0	0.25053	10.0	2037557.0	0.25053	Y
4	IC 410-274149/15	2.0	0.549971	10.0	2031307.0	0.274986	Y
5	IC 410-274149/14	5.0	1.330167	10.0	2106074.0	0.266033	Y
6	ICIS 410-274149/13	10.0	2.739513	10.0	2081655.0	0.273951	Y
7	IC 410-274149/12	25.0	6.458617	10.0	2132698.0	0.258345	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

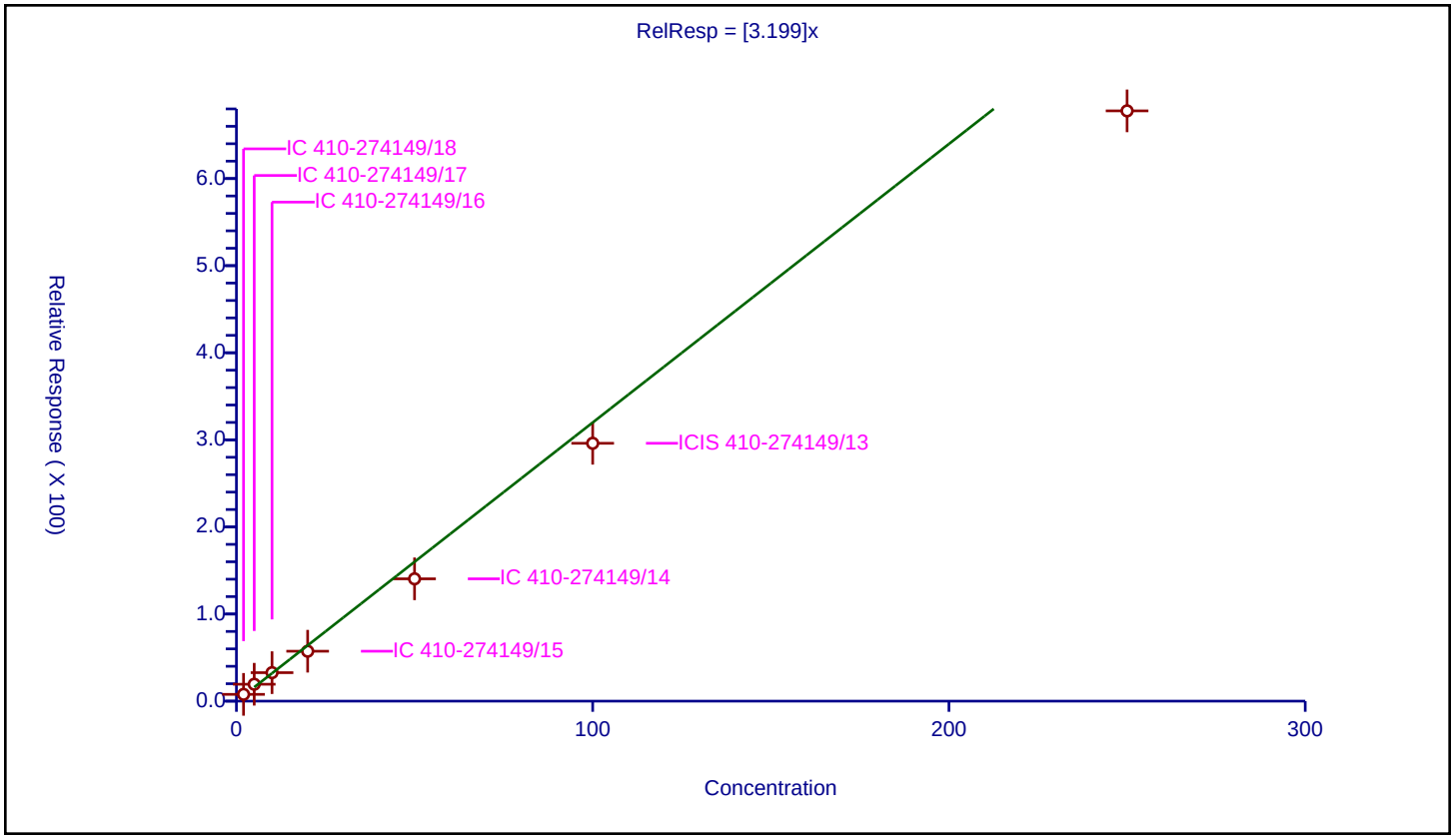
Curve Coefficients

Intercept:	0
Slope:	3.199

Error Coefficients

Standard Error:	607000
Relative Standard Error:	15.7
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.960

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	2.0	7.784178	50.0	127772.0	3.892089	Y
2	IC 410-274149/17	5.0	19.409463	50.0	81790.0	3.881893	Y
3	IC 410-274149/16	10.0	32.72058	50.0	87066.0	3.272058	Y
4	IC 410-274149/15	20.0	57.308918	50.0	107663.0	2.865446	Y
5	IC 410-274149/14	50.0	140.437694	50.0	120975.0	2.808754	Y
6	ICIS 410-274149/13	100.0	296.051593	50.0	101370.0	2.960516	Y
7	IC 410-274149/12	250.0	677.725018	50.0	96770.0	2.7109	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

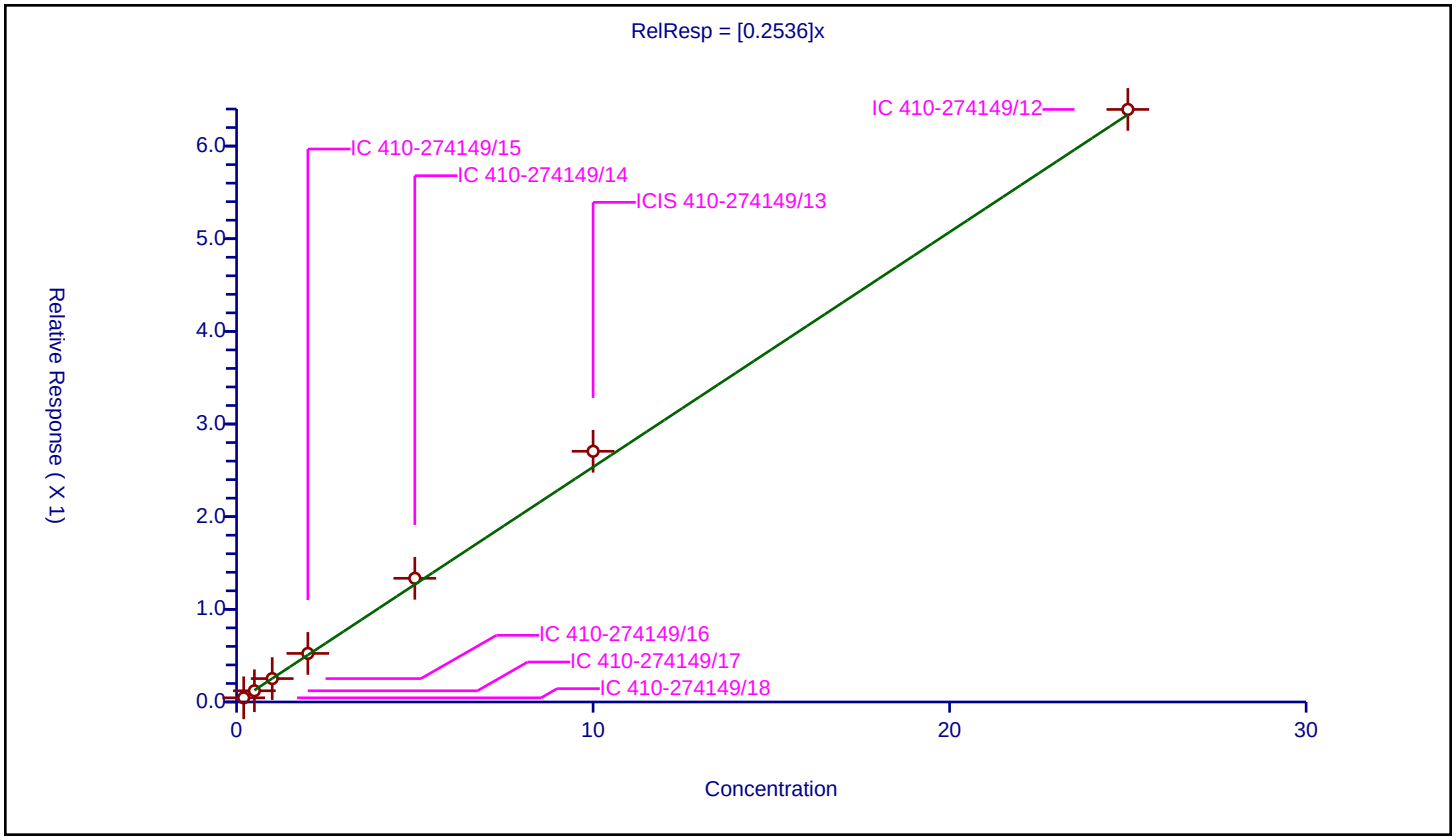
Curve Coefficients

Intercept:	0
Slope:	0.2536

Error Coefficients

Standard Error:	615000
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 410-274149/18	0.2	0.045001	10.0	2085513.0	0.225005	Y
2	IC 410-274149/17	0.5	0.121098	10.0	2031490.0	0.242197	Y
3	IC 410-274149/16	1.0	0.252503	10.0	2037557.0	0.252503	Y
4	IC 410-274149/15	2.0	0.524239	10.0	2031307.0	0.262119	Y
5	IC 410-274149/14	5.0	1.33502	10.0	2106074.0	0.267004	Y
6	ICIS 410-274149/13	10.0	2.705953	10.0	2081655.0	0.270595	Y
7	IC 410-274149/12	25.0	6.395345	10.0	2132698.0	0.255814	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

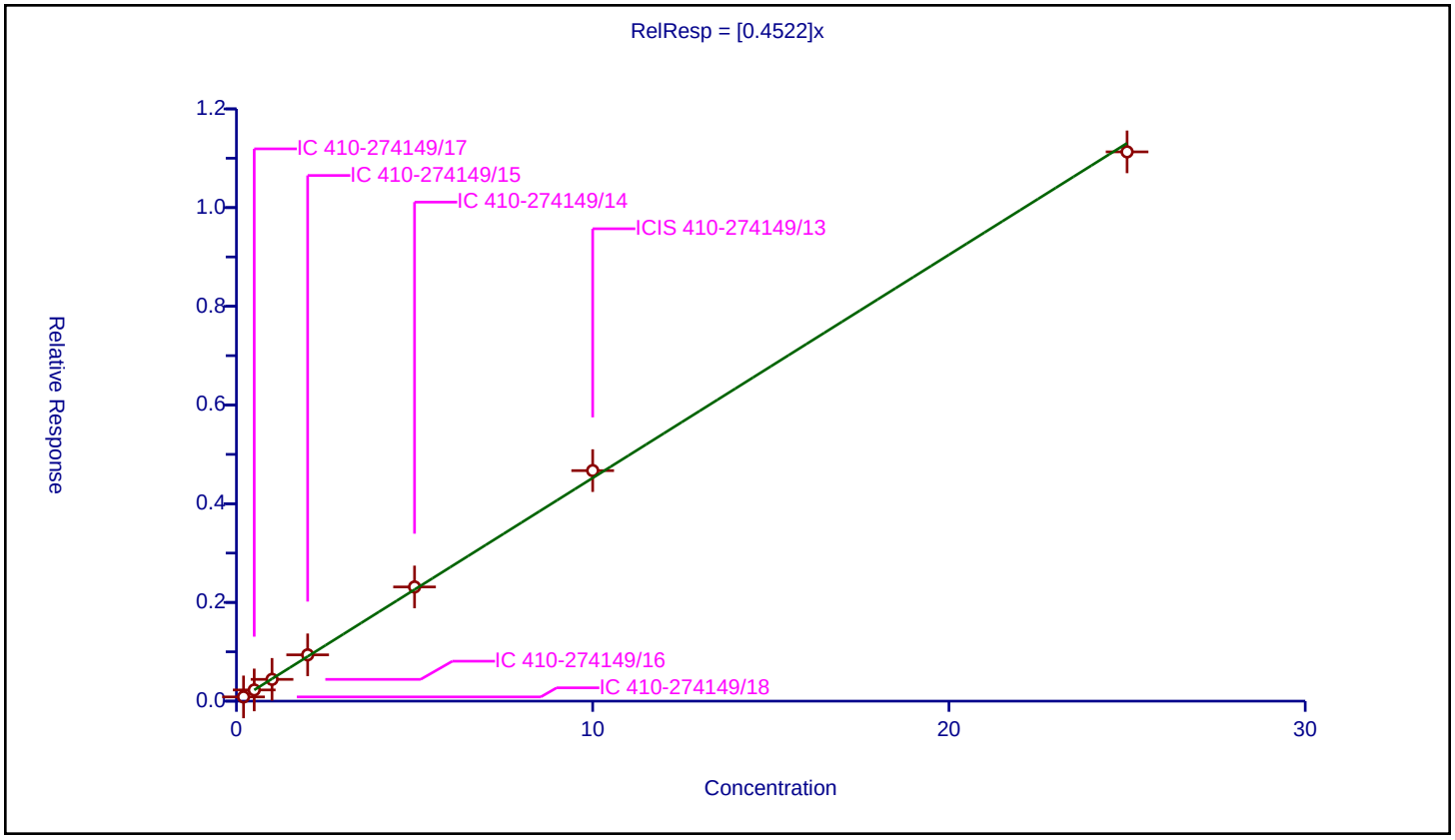
Curve Coefficients

Intercept:	0
Slope:	0.4522

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	0.085264	10.0	2085513.0	0.426322	Y
2	IC 410-274149/17	0.5	0.226873	10.0	2031490.0	0.453746	Y
3	IC 410-274149/16	1.0	0.441382	10.0	2037557.0	0.441382	Y
4	IC 410-274149/15	2.0	0.938263	10.0	2031307.0	0.469131	Y
5	IC 410-274149/14	5.0	2.313774	10.0	2106074.0	0.462755	Y
6	ICIS 410-274149/13	10.0	4.670822	10.0	2081655.0	0.467082	Y
7	IC 410-274149/12	25.0	11.129565	10.0	2132698.0	0.445183	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

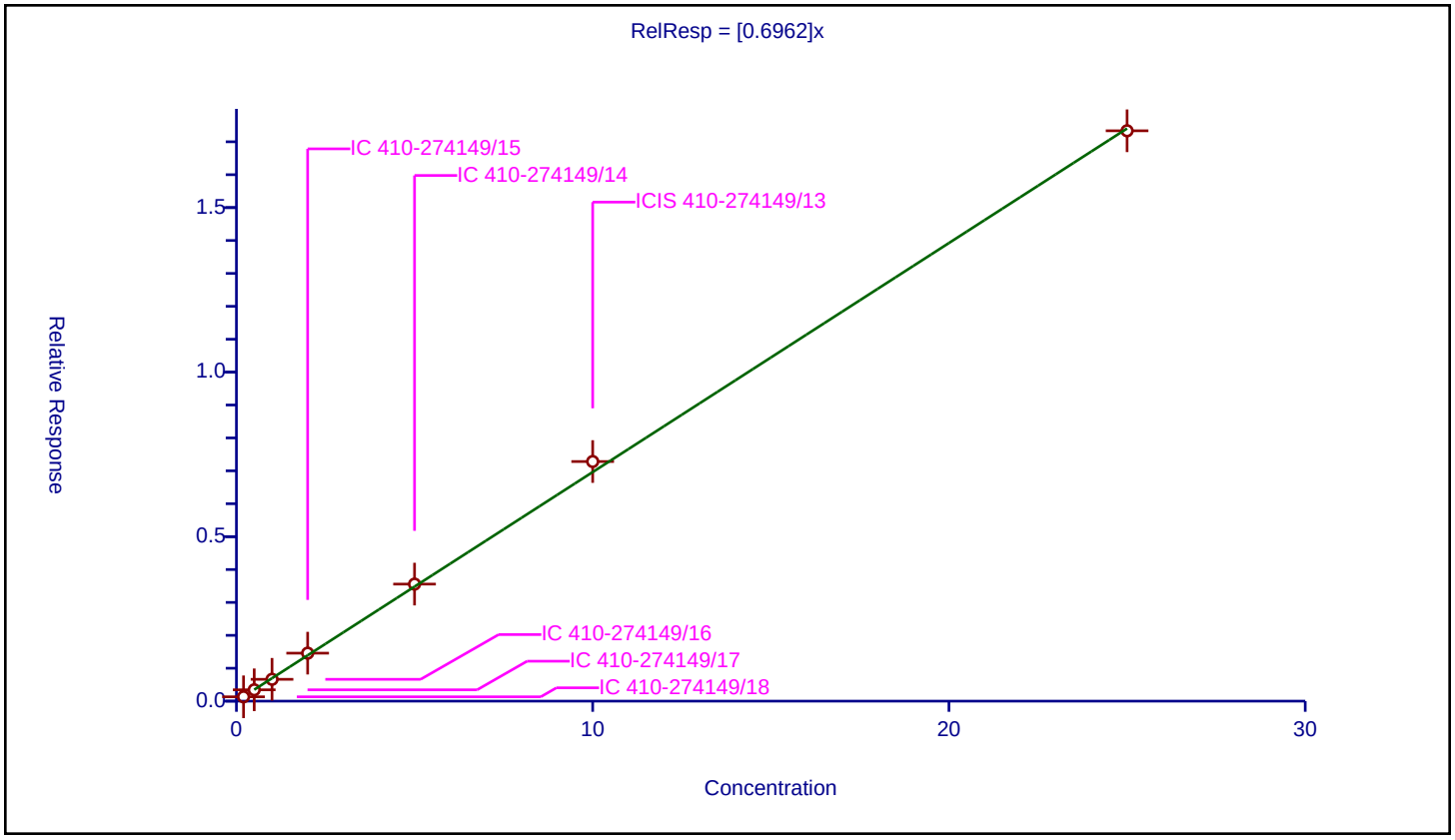
Curve Coefficients

Intercept:	0
Slope:	0.6962

Error Coefficients

Standard Error:	1670000
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 410-274149/18	0.2	0.131833	10.0	2085513.0	0.659166	Y
2	IC 410-274149/17	0.5	0.344058	10.0	2031490.0	0.688116	Y
3	IC 410-274149/16	1.0	0.663633	10.0	2037557.0	0.663633	Y
4	IC 410-274149/15	2.0	1.458445	10.0	2031307.0	0.729223	Y
5	IC 410-274149/14	5.0	3.557373	10.0	2106074.0	0.711475	Y
6	ICIS 410-274149/13	10.0	7.282432	10.0	2081655.0	0.728243	Y
7	IC 410-274149/12	25.0	17.334447	10.0	2132698.0	0.693378	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

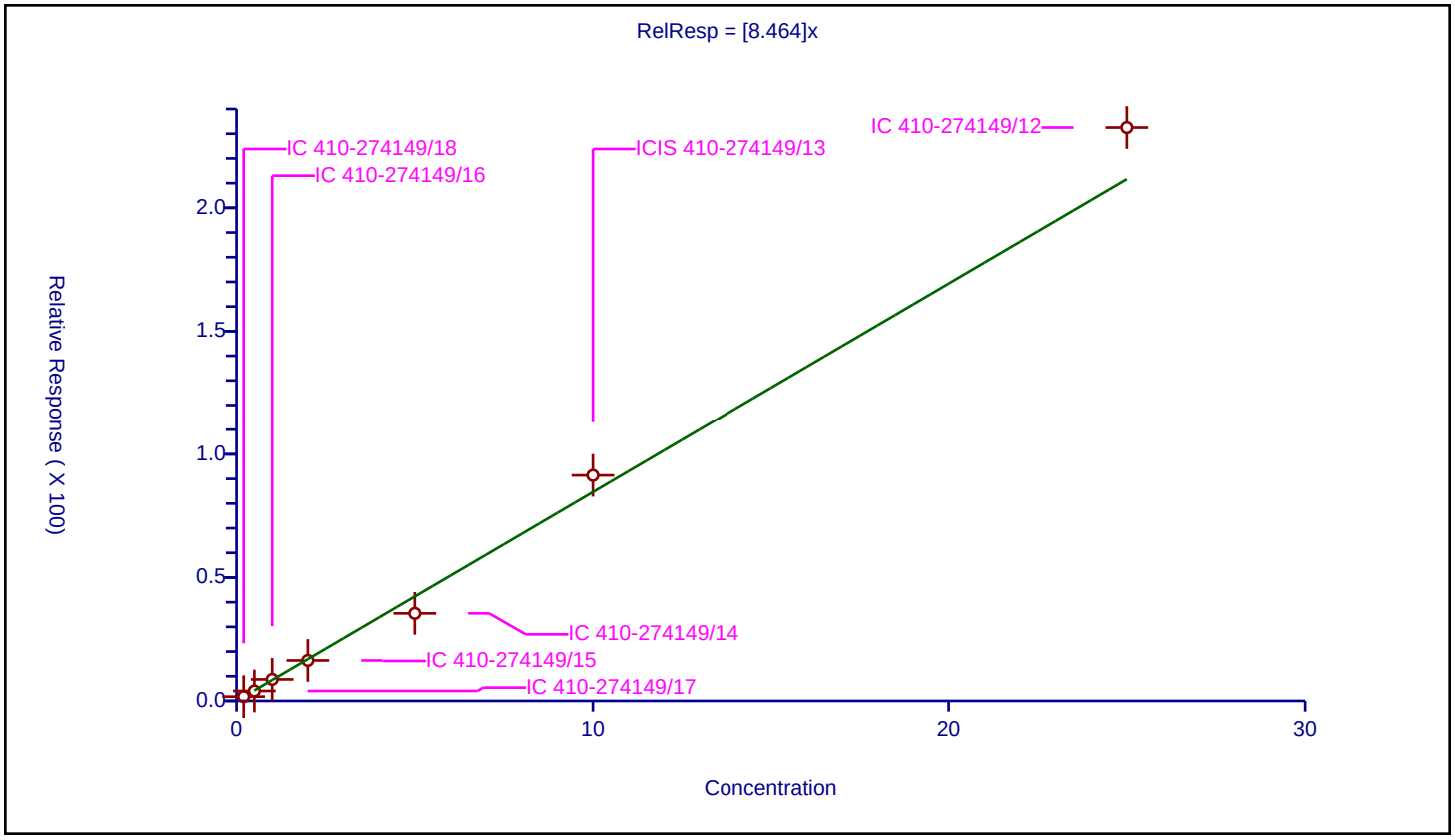
Curve Coefficients

Intercept:	0
Slope:	8.464

Error Coefficients

Standard Error:	202000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	1.740992	50.0	127772.0	8.704959	Y
2	IC 410-274149/17	0.5	4.03778	50.0	81790.0	8.075559	Y
3	IC 410-274149/16	1.0	8.729584	50.0	87066.0	8.729584	Y
4	IC 410-274149/15	2.0	16.401178	50.0	107663.0	8.200589	Y
5	IC 410-274149/14	5.0	35.484191	50.0	120975.0	7.096838	Y
6	ICIS 410-274149/13	10.0	91.432376	50.0	101370.0	9.143238	Y
7	IC 410-274149/12	25.0	232.511626	50.0	96770.0	9.300465	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

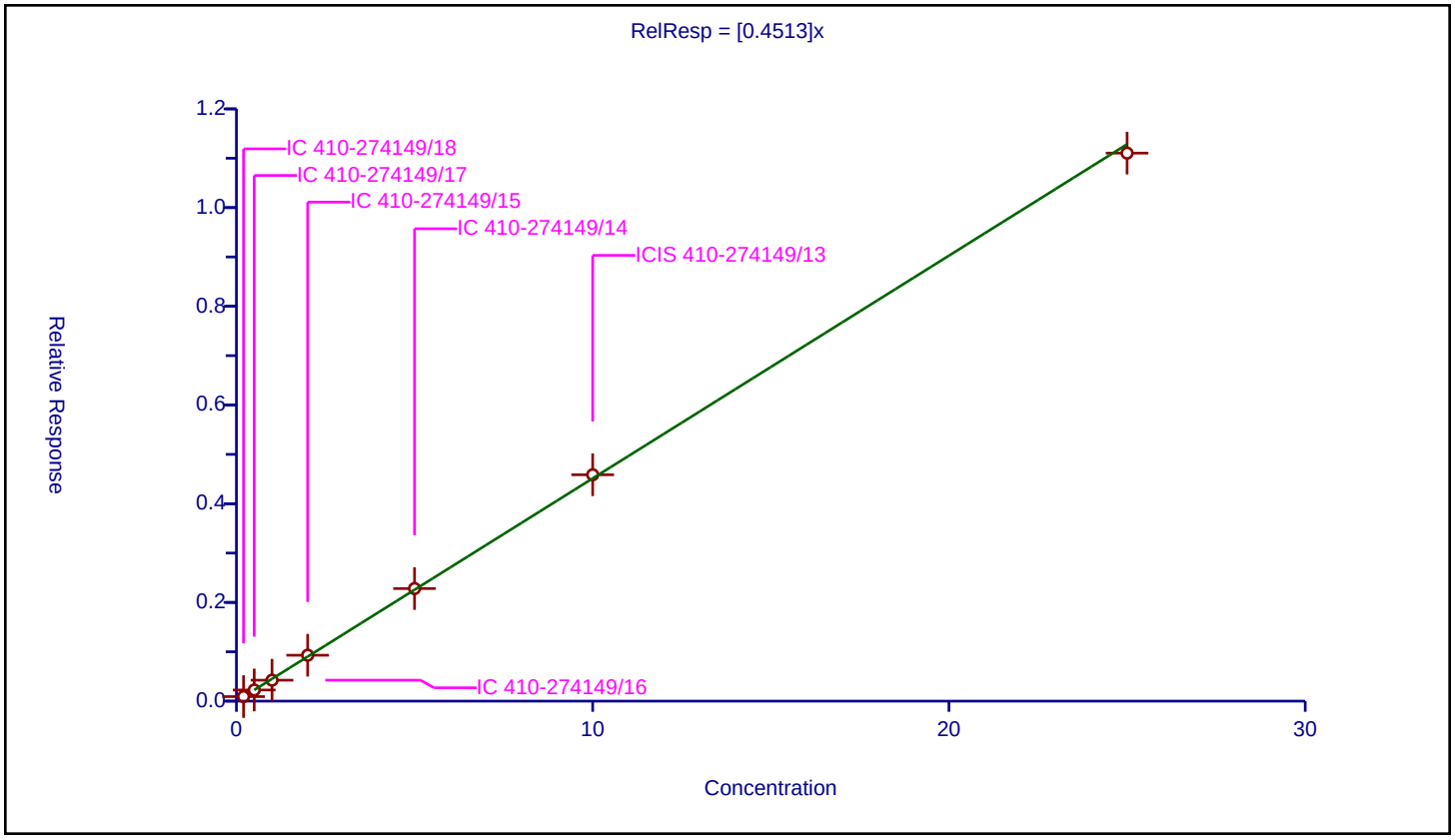
Curve Coefficients

Intercept:	0
Slope:	0.4513

Error Coefficients

Standard Error:	1060000
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 410-274149/18	0.2	0.091771	10.0	2085513.0	0.458856	Y
2	IC 410-274149/17	0.5	0.225716	10.0	2031490.0	0.451432	Y
3	IC 410-274149/16	1.0	0.424597	10.0	2037557.0	0.424597	Y
4	IC 410-274149/15	2.0	0.930342	10.0	2031307.0	0.465171	Y
5	IC 410-274149/14	5.0	2.281373	10.0	2106074.0	0.456275	Y
6	ICIS 410-274149/13	10.0	4.586994	10.0	2081655.0	0.458699	Y
7	IC 410-274149/12	25.0	11.103977	10.0	2132698.0	0.444159	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

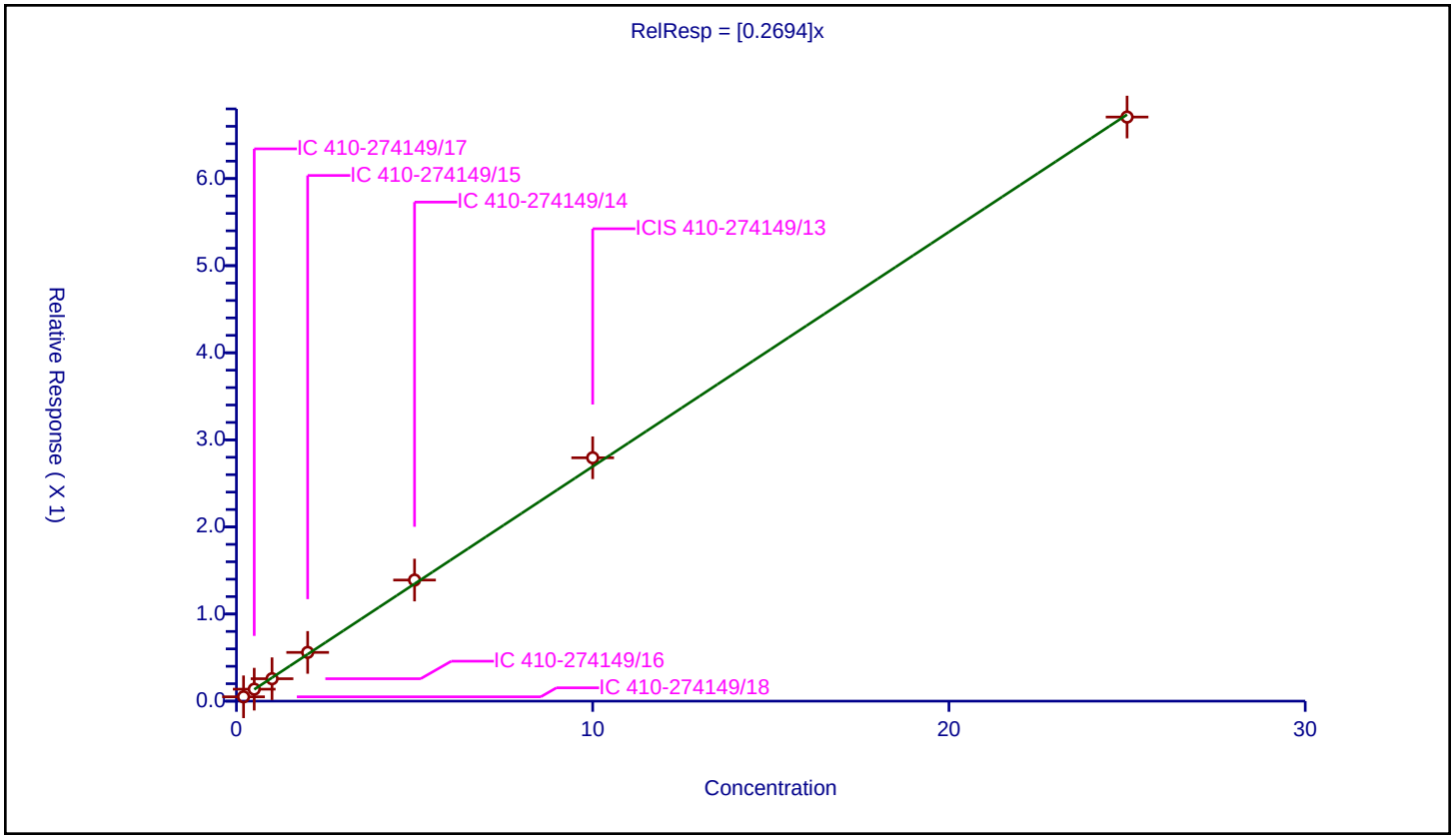
Curve Coefficients

Intercept:	0
Slope:	0.2694

Error Coefficients

Standard Error:	644000
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 410-274149/18	0.2	0.049628	10.0	2085513.0	0.24814	Y
2	IC 410-274149/17	0.5	0.137436	10.0	2031490.0	0.274872	Y
3	IC 410-274149/16	1.0	0.25722	10.0	2037557.0	0.25722	Y
4	IC 410-274149/15	2.0	0.559448	10.0	2031307.0	0.279724	Y
5	IC 410-274149/14	5.0	1.390241	10.0	2106074.0	0.278048	Y
6	ICIS 410-274149/13	10.0	2.794233	10.0	2081655.0	0.279423	Y
7	IC 410-274149/12	25.0	6.706378	10.0	2132698.0	0.268255	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

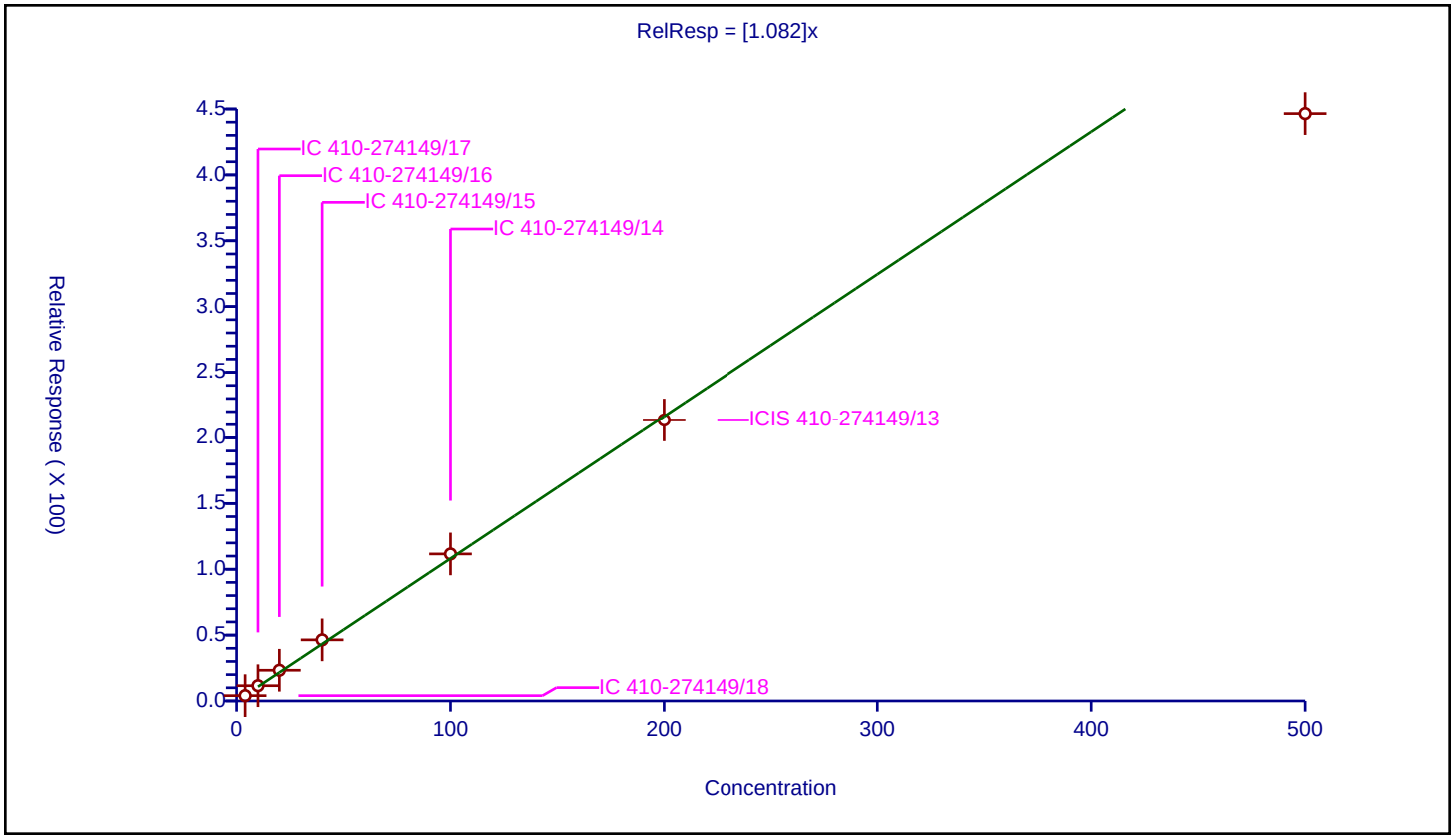
Curve Coefficients

Intercept:	0
Slope:	1.082

Error Coefficients

Standard Error:	412000
Relative Standard Error:	9.4
Correlation Coefficient:	0.982
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	4.0	4.038443	50.0	127772.0	1.009611	Y
2	IC 410-274149/17	10.0	11.594938	50.0	81790.0	1.159494	Y
3	IC 410-274149/16	20.0	23.32426	50.0	87066.0	1.166213	Y
4	IC 410-274149/15	40.0	46.395233	50.0	107663.0	1.159881	Y
5	IC 410-274149/14	100.0	111.628849	50.0	120975.0	1.116288	Y
6	ICIS 410-274149/13	200.0	213.632732	50.0	101370.0	1.068164	Y
7	IC 410-274149/12	500.0	446.490131	50.0	96770.0	0.89298	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

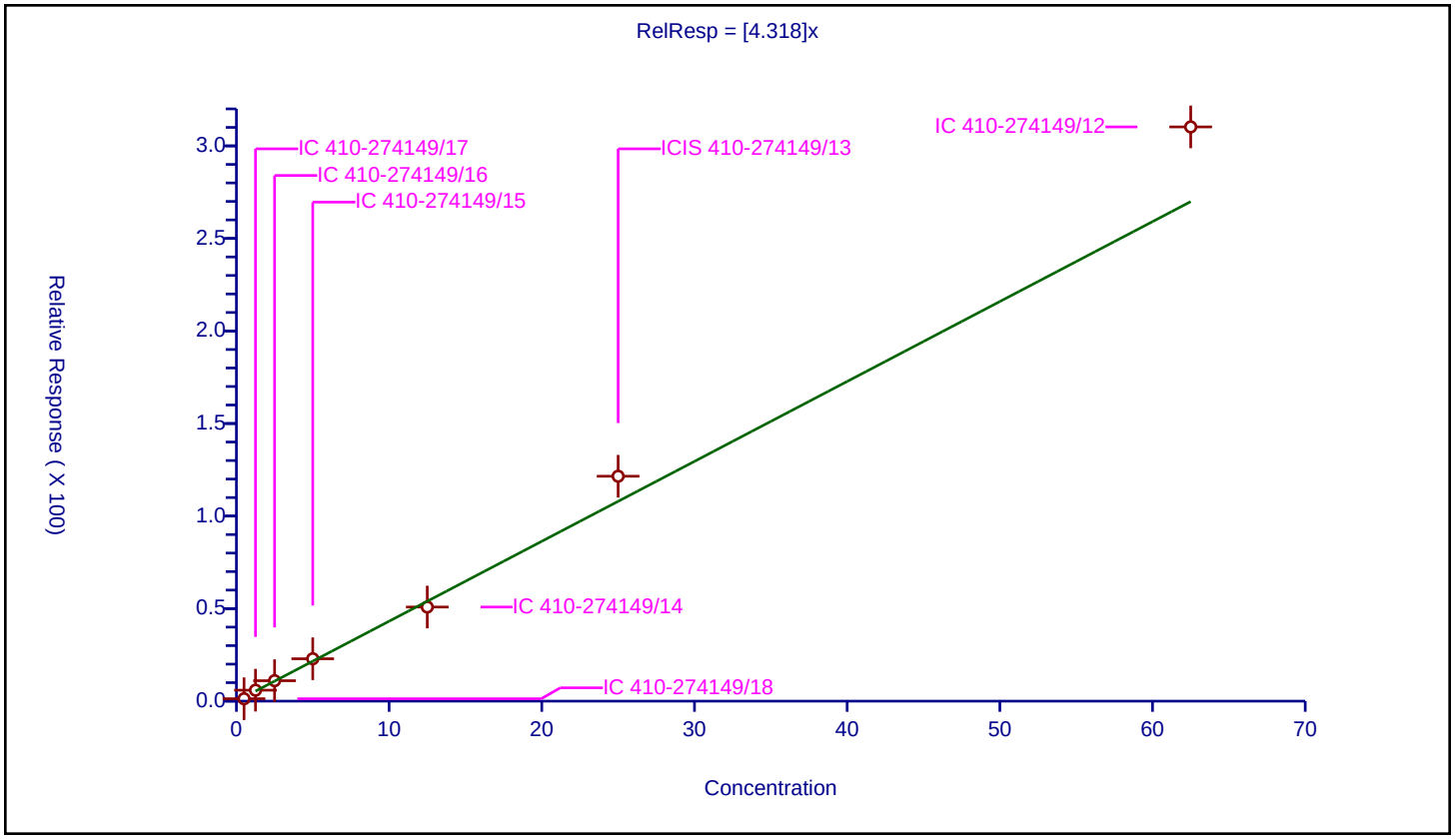
Curve Coefficients

Intercept:	0
Slope:	4.318

Error Coefficients

Standard Error:	270000
Relative Standard Error:	18.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.961

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.5	1.297624	50.0	127772.0	2.595248	Y
2	IC 410-274149/17	1.25	5.924318	50.0	81790.0	4.739455	Y
3	IC 410-274149/16	2.5	11.051386	50.0	87066.0	4.420555	Y
4	IC 410-274149/15	5.0	22.895981	50.0	107663.0	4.579196	Y
5	IC 410-274149/14	12.5	50.846043	50.0	120975.0	4.067683	Y
6	ICIS 410-274149/13	25.0	121.523133	50.0	101370.0	4.860925	Y
7	IC 410-274149/12	62.5	310.261961	50.0	96770.0	4.964191	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

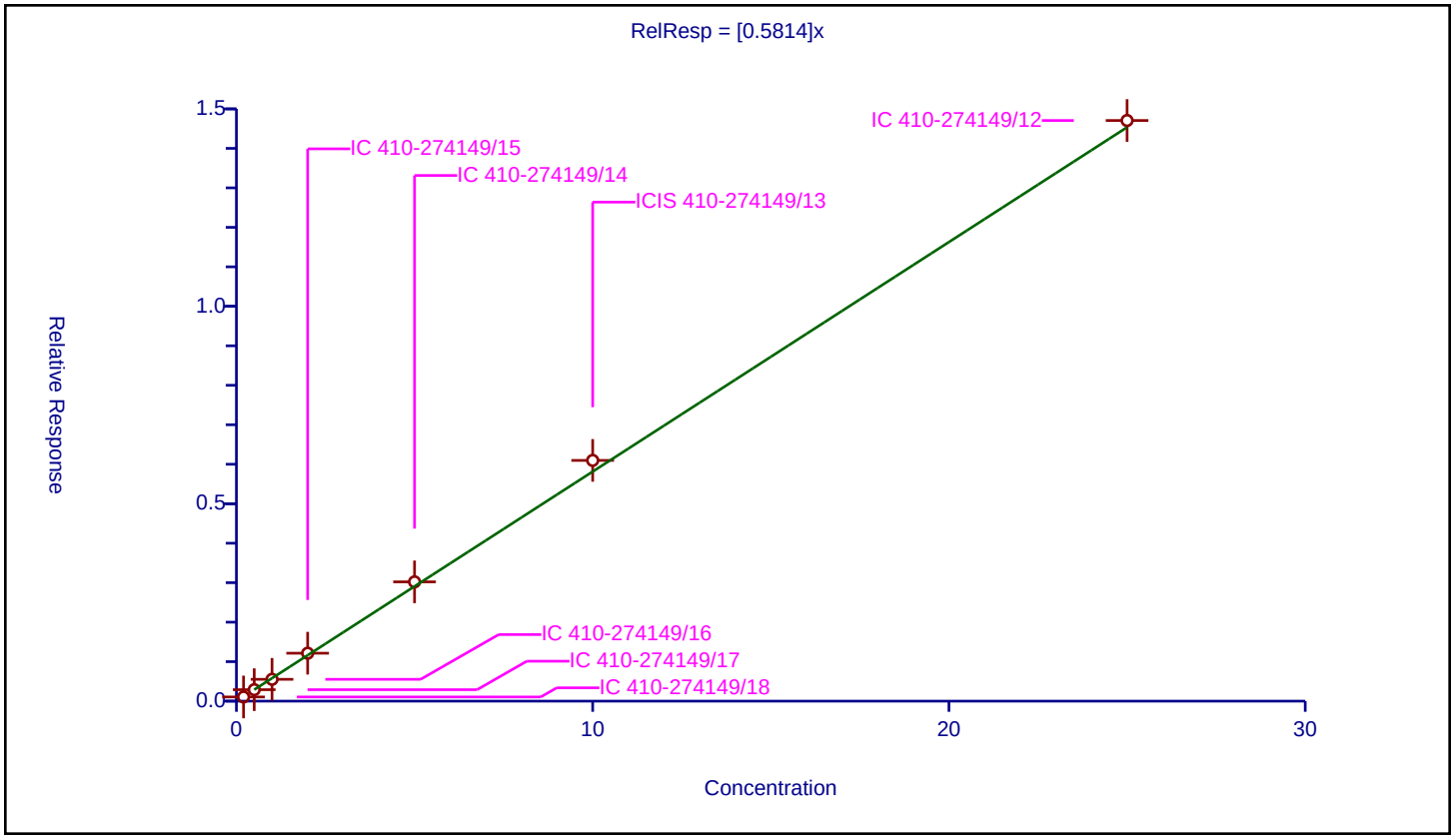
Curve Coefficients

Intercept:	0
Slope:	0.5814

Error Coefficients

Standard Error:	1410000
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 410-274149/18	0.2	0.105327	10.0	2085513.0	0.526633	Y
2	IC 410-274149/17	0.5	0.290358	10.0	2031490.0	0.580717	Y
3	IC 410-274149/16	1.0	0.553089	10.0	2037557.0	0.553089	Y
4	IC 410-274149/15	2.0	1.213893	10.0	2031307.0	0.606947	Y
5	IC 410-274149/14	5.0	3.021371	10.0	2106074.0	0.604274	Y
6	ICIS 410-274149/13	10.0	6.097322	10.0	2081655.0	0.609732	Y
7	IC 410-274149/12	25.0	14.705556	10.0	2132698.0	0.588222	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

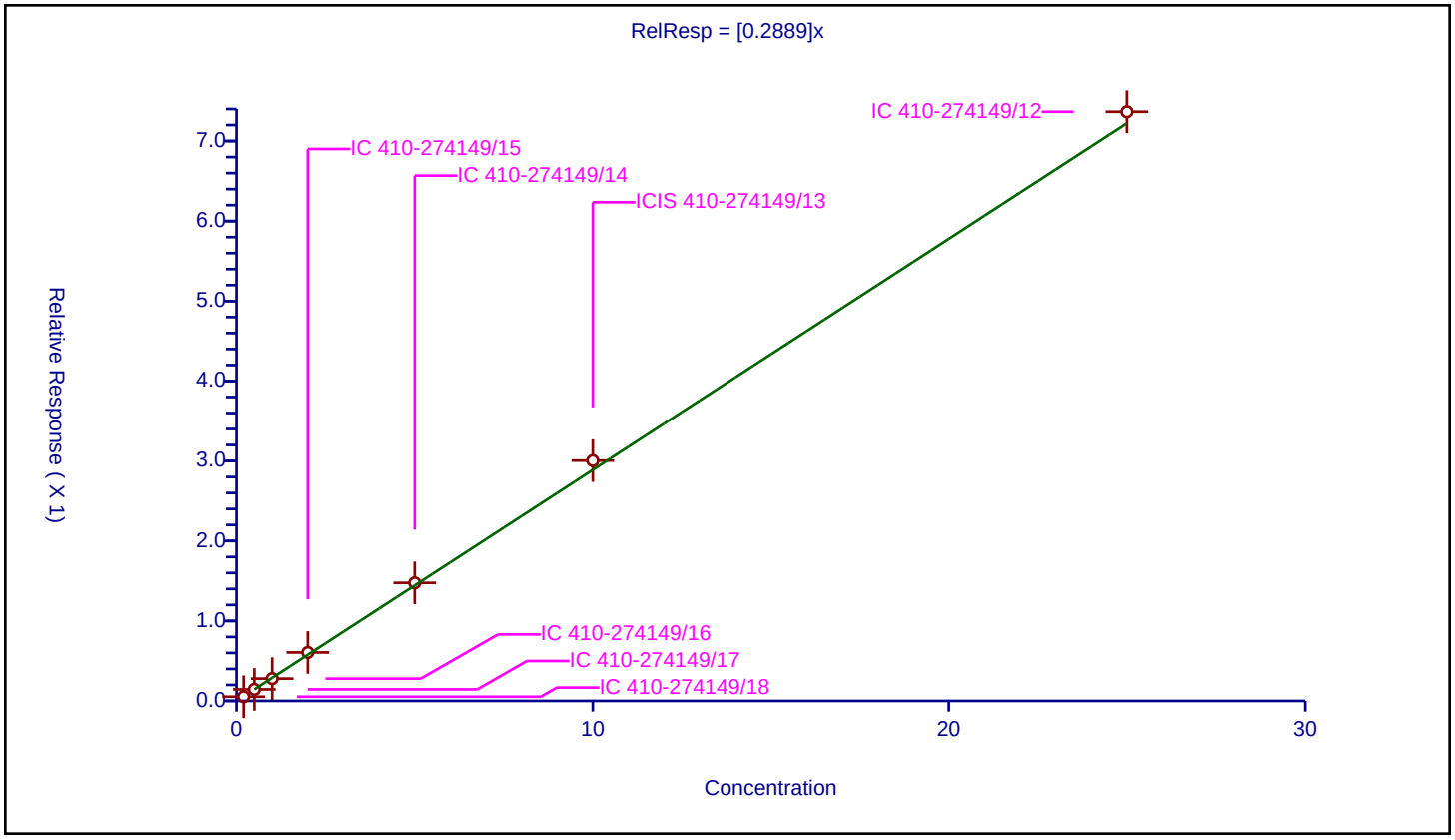
Curve Coefficients

Intercept:	0
Slope:	0.2889

Error Coefficients

Standard Error:	704000
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 410-274149/18	0.2	0.052467	10.0	2085513.0	0.262334	Y
2	IC 410-274149/17	0.5	0.143885	10.0	2031490.0	0.287769	Y
3	IC 410-274149/16	1.0	0.2788	10.0	2037557.0	0.2788	Y
4	IC 410-274149/15	2.0	0.606029	10.0	2031307.0	0.303014	Y
5	IC 410-274149/14	5.0	1.476501	10.0	2106074.0	0.2953	Y
6	ICIS 410-274149/13	10.0	3.005037	10.0	2081655.0	0.300504	Y
7	IC 410-274149/12	25.0	7.36552	10.0	2132698.0	0.294621	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

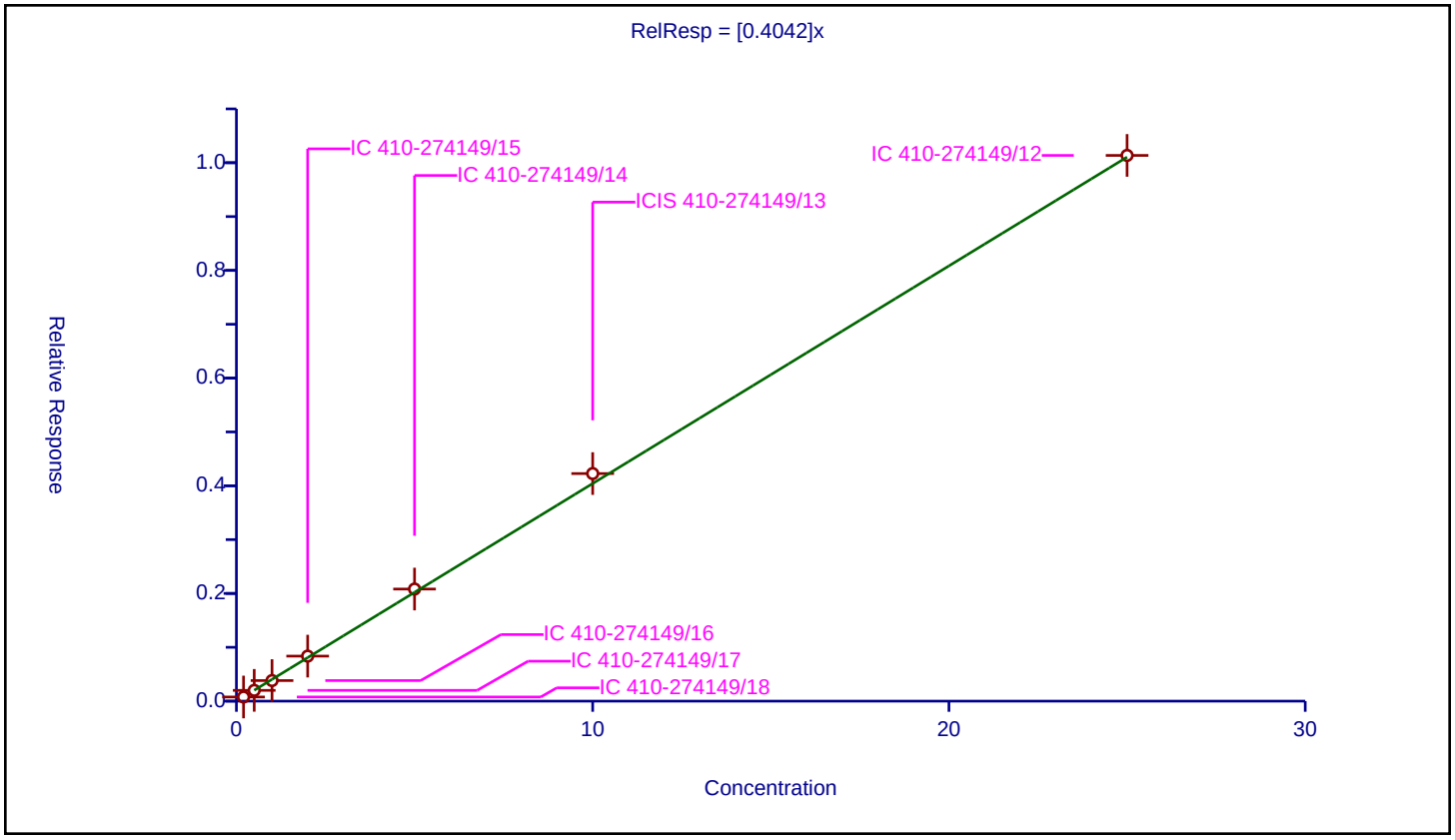
Curve Coefficients

Intercept:	0
Slope:	0.4042

Error Coefficients

Standard Error:	973000
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 410-274149/18	0.2	0.076974	10.0	2085513.0	0.384869	Y
2	IC 410-274149/17	0.5	0.199932	10.0	2031490.0	0.399864	Y
3	IC 410-274149/16	1.0	0.381938	10.0	2037557.0	0.381938	Y
4	IC 410-274149/15	2.0	0.836471	10.0	2031307.0	0.418236	Y
5	IC 410-274149/14	5.0	2.081959	10.0	2106074.0	0.416392	Y
6	ICIS 410-274149/13	10.0	4.226599	10.0	2081655.0	0.42266	Y
7	IC 410-274149/12	25.0	10.135926	10.0	2132698.0	0.405437	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

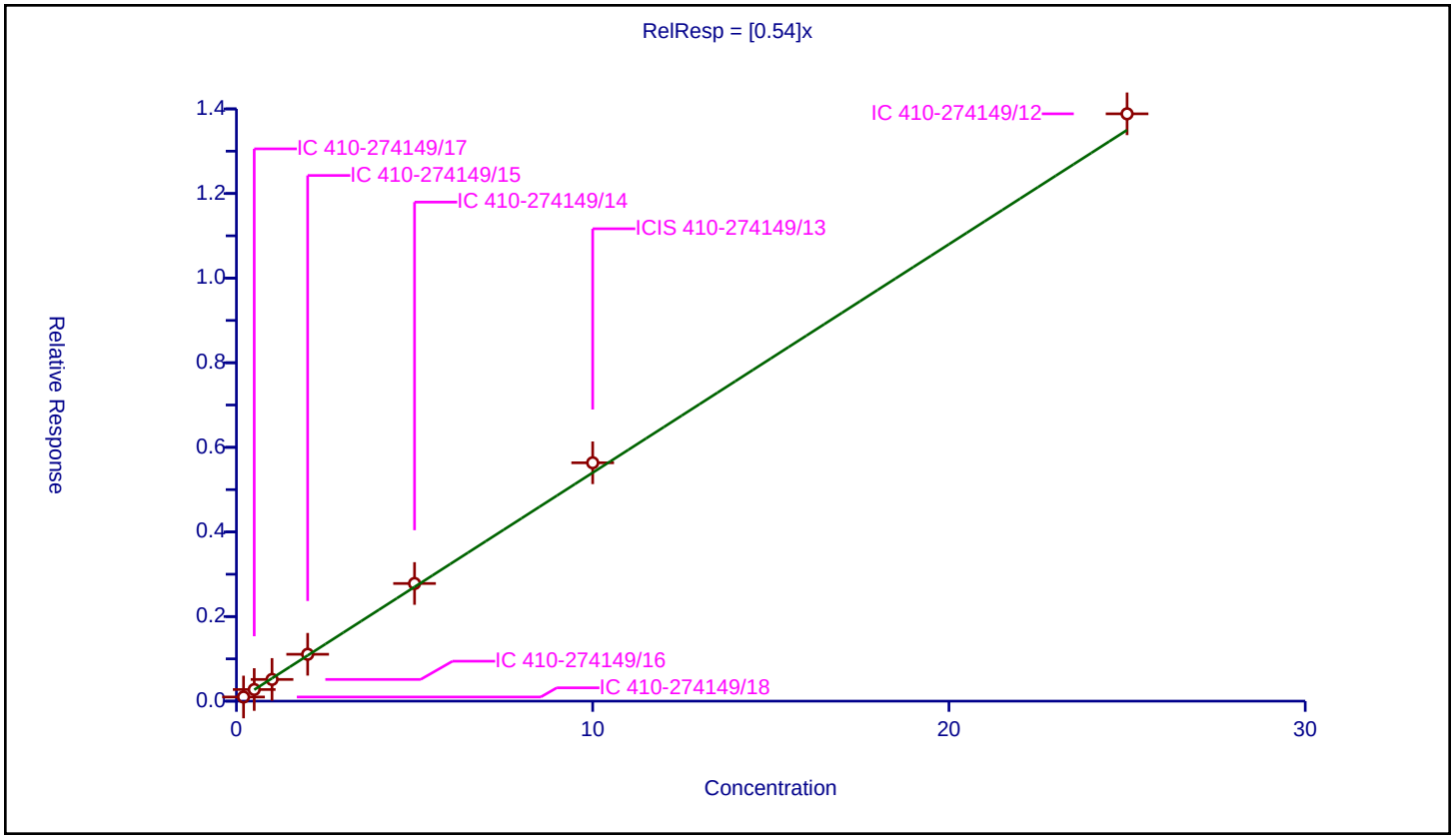
Curve Coefficients

Intercept:	0
Slope:	0.54

Error Coefficients

Standard Error:	1330000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	0.097727	10.0	2085513.0	0.488633	Y
2	IC 410-274149/17	0.5	0.27503	10.0	2031490.0	0.550059	Y
3	IC 410-274149/16	1.0	0.512614	10.0	2037557.0	0.512614	Y
4	IC 410-274149/15	2.0	1.107686	10.0	2031307.0	0.553843	Y
5	IC 410-274149/14	5.0	2.781474	10.0	2106074.0	0.556295	Y
6	ICIS 410-274149/13	10.0	5.634416	10.0	2081655.0	0.563442	Y
7	IC 410-274149/12	25.0	13.883222	10.0	2132698.0	0.555329	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

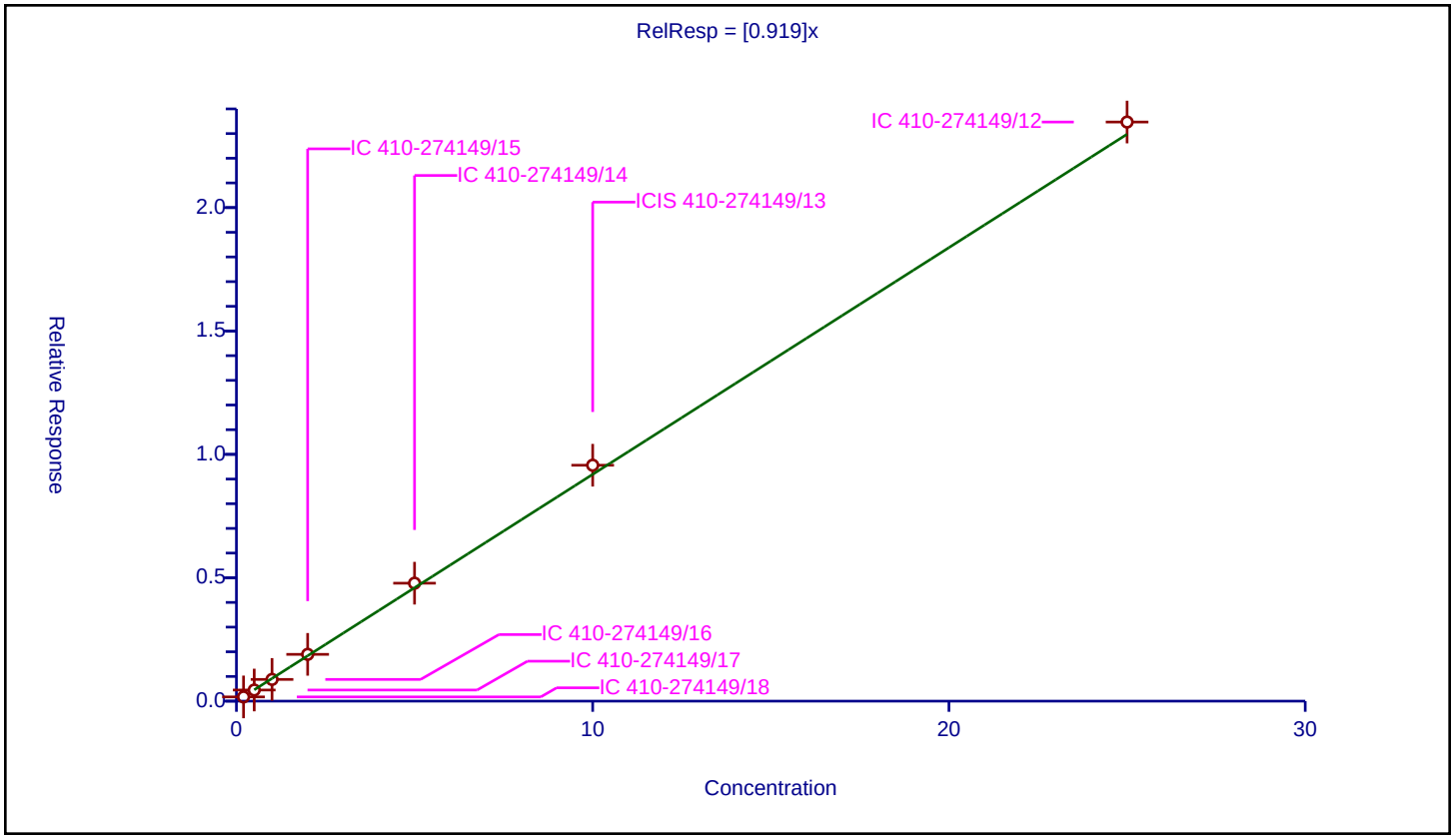
Curve Coefficients

Intercept:	0
Slope:	0.919

Error Coefficients

Standard Error:	2240000
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 410-274149/18	0.2	0.170697	10.0	2085513.0	0.853483	Y
2	IC 410-274149/17	0.5	0.45028	10.0	2031490.0	0.900561	Y
3	IC 410-274149/16	1.0	0.879779	10.0	2037557.0	0.879779	Y
4	IC 410-274149/15	2.0	1.896277	10.0	2031307.0	0.948138	Y
5	IC 410-274149/14	5.0	4.780236	10.0	2106074.0	0.956047	Y
6	ICIS 410-274149/13	10.0	9.559615	10.0	2081655.0	0.955961	Y
7	IC 410-274149/12	25.0	23.467598	10.0	2132698.0	0.938704	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

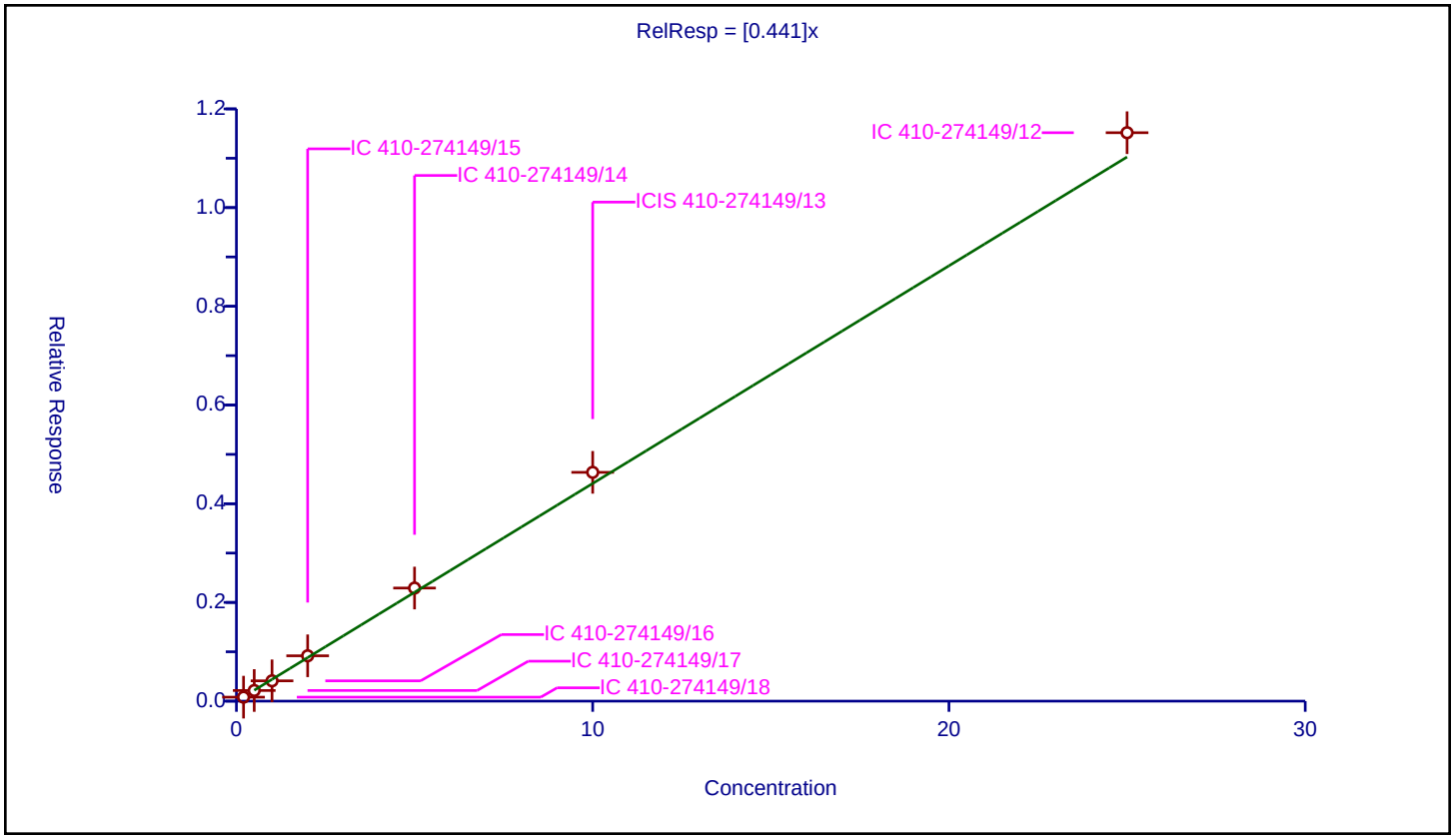
Curve Coefficients

Intercept:	0
Slope:	0.441

Error Coefficients

Standard Error:	1100000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	0.080445	10.0	2085513.0	0.402227	Y
2	IC 410-274149/17	0.5	0.215842	10.0	2031490.0	0.431683	Y
3	IC 410-274149/16	1.0	0.411252	10.0	2037557.0	0.411252	Y
4	IC 410-274149/15	2.0	0.918881	10.0	2031307.0	0.459441	Y
5	IC 410-274149/14	5.0	2.291843	10.0	2106074.0	0.458369	Y
6	ICIS 410-274149/13	10.0	4.636085	10.0	2081655.0	0.463609	Y
7	IC 410-274149/12	25.0	11.51736	10.0	2132698.0	0.460694	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

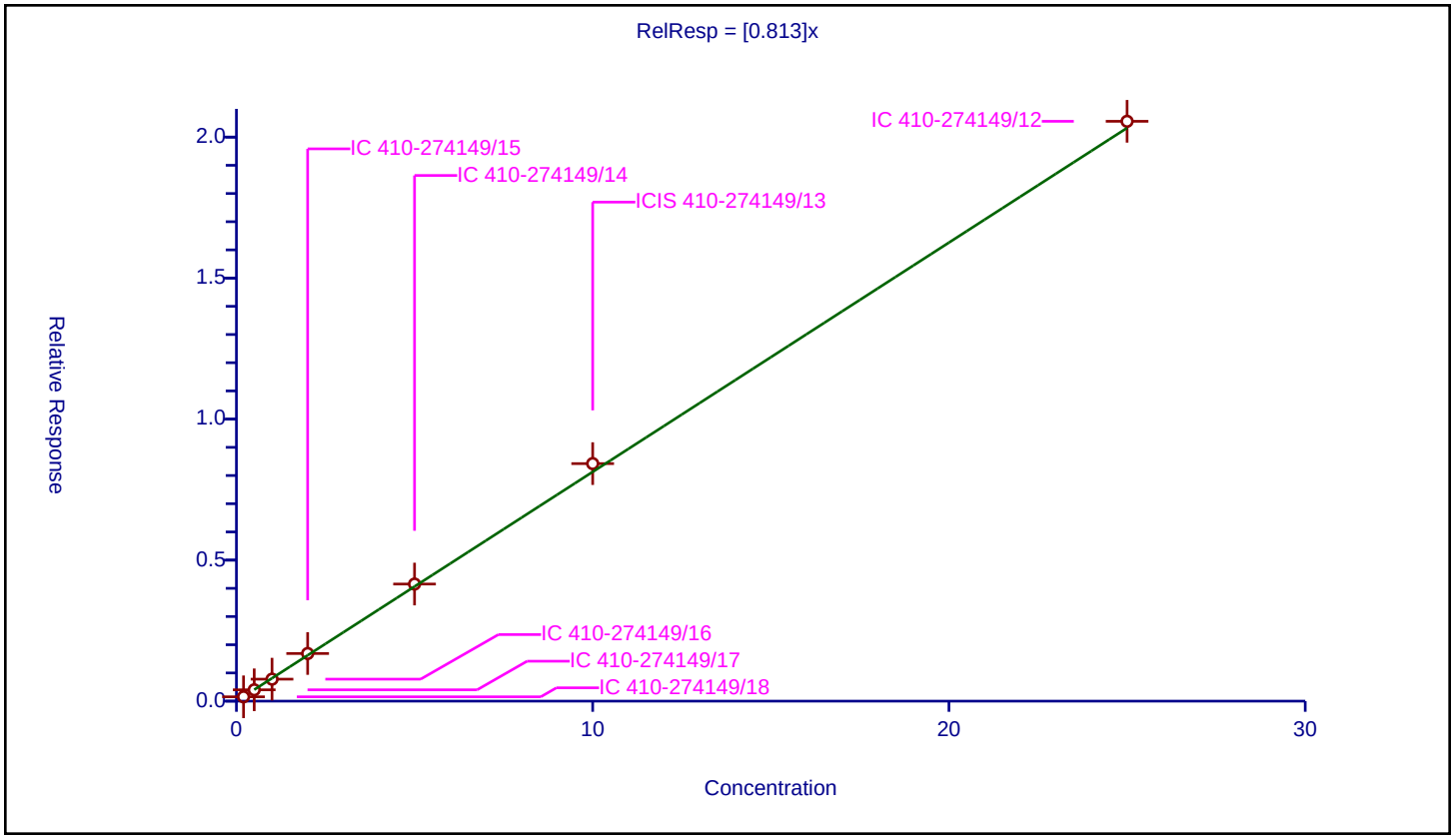
Curve Coefficients

Intercept:	0
Slope:	0.813

Error Coefficients

Standard Error:	1970000
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 410-274149/18	0.2	0.153794	10.0	2085513.0	0.768971	Y
2	IC 410-274149/17	0.5	0.401434	10.0	2031490.0	0.802869	Y
3	IC 410-274149/16	1.0	0.779247	10.0	2037557.0	0.779247	Y
4	IC 410-274149/15	2.0	1.689164	10.0	2031307.0	0.844582	Y
5	IC 410-274149/14	5.0	4.152167	10.0	2106074.0	0.830433	Y
6	ICIS 410-274149/13	10.0	8.422366	10.0	2081655.0	0.842237	Y
7	IC 410-274149/12	25.0	20.56014	10.0	2132698.0	0.822406	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

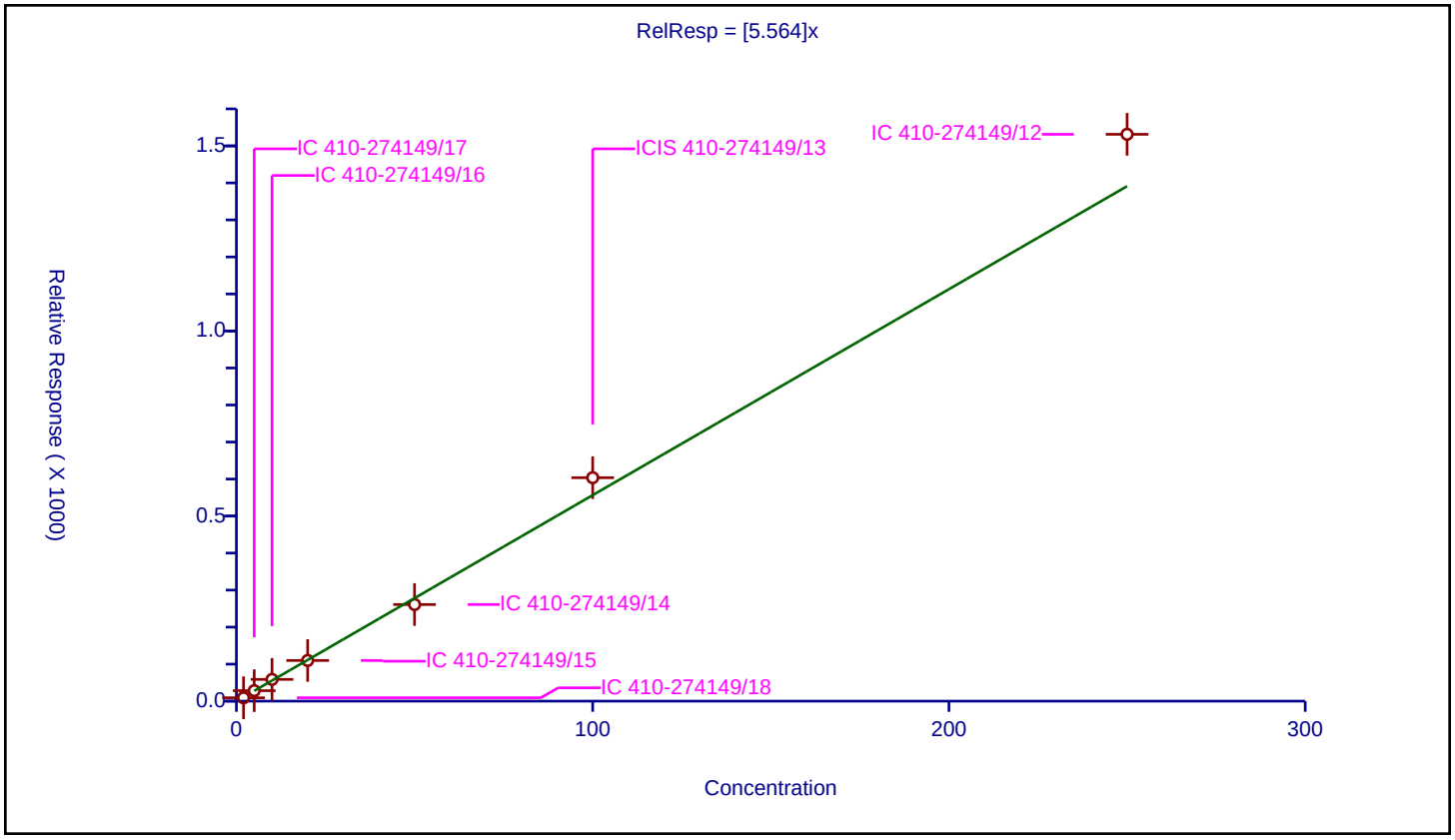
Curve Coefficients

Intercept:	0
Slope:	5.564

Error Coefficients

Standard Error:	1340000
Relative Standard Error:	9.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	2.0	9.068888	50.0	127772.0	4.534444	Y
2	IC 410-274149/17	5.0	28.32559	50.0	81790.0	5.665118	Y
3	IC 410-274149/16	10.0	58.777824	50.0	87066.0	5.877782	Y
4	IC 410-274149/15	20.0	109.82696	50.0	107663.0	5.491348	Y
5	IC 410-274149/14	50.0	261.017979	50.0	120975.0	5.22036	Y
6	ICIS 410-274149/13	100.0	603.680576	50.0	101370.0	6.036806	Y
7	IC 410-274149/12	250.0	1531.381627	50.0	96770.0	6.125527	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

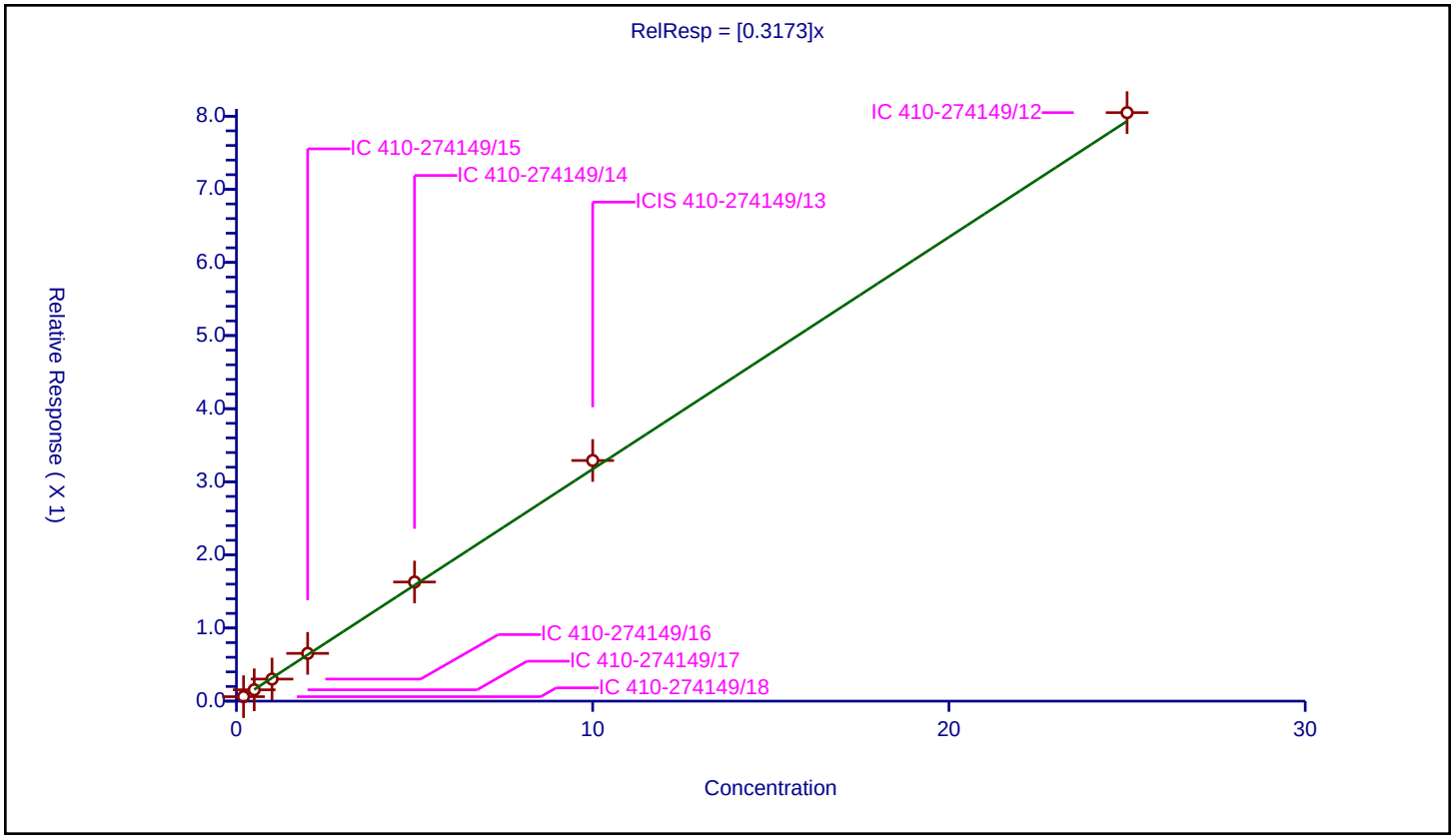
Curve Coefficients

Intercept:	0
Slope:	0.3173

Error Coefficients

Standard Error:	770000
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 410-274149/18	0.2	0.061045	10.0	2085513.0	0.305225	Y
2	IC 410-274149/17	0.5	0.155324	10.0	2031490.0	0.310649	Y
3	IC 410-274149/16	1.0	0.301861	10.0	2037557.0	0.301861	Y
4	IC 410-274149/15	2.0	0.65319	10.0	2031307.0	0.326595	Y
5	IC 410-274149/14	5.0	1.629031	10.0	2106074.0	0.325806	Y
6	ICIS 410-274149/13	10.0	3.291348	10.0	2081655.0	0.329135	Y
7	IC 410-274149/12	25.0	8.048866	10.0	2132698.0	0.321955	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

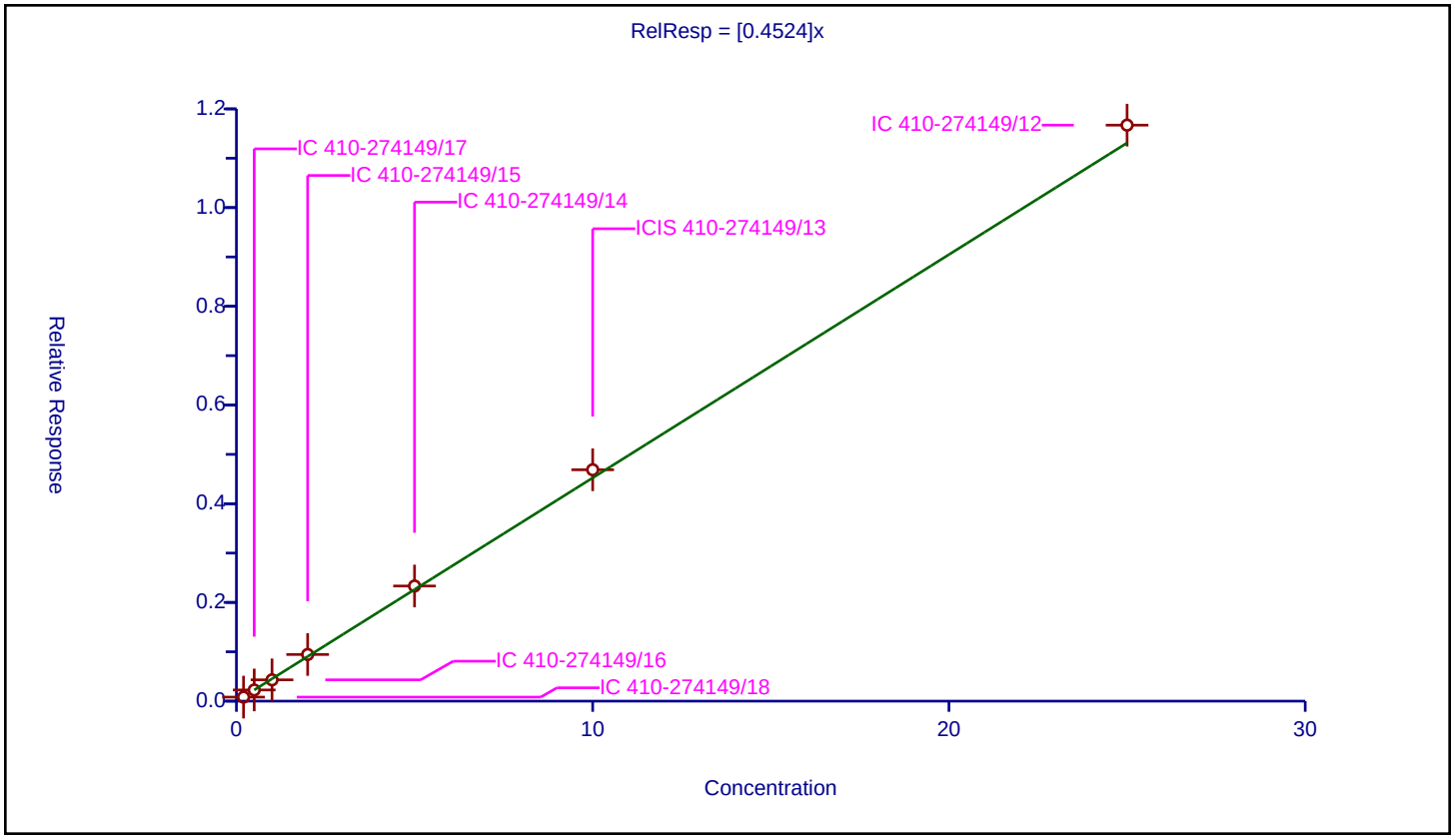
Curve Coefficients

Intercept:	0
Slope:	0.4524

Error Coefficients

Standard Error:	1110000
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 410-274149/18	0.2	0.081591	10.0	2085513.0	0.407957	Y
2	IC 410-274149/17	0.5	0.226386	10.0	2031490.0	0.452771	Y
3	IC 410-274149/16	1.0	0.431389	10.0	2037557.0	0.431389	Y
4	IC 410-274149/15	2.0	0.945061	10.0	2031307.0	0.472531	Y
5	IC 410-274149/14	5.0	2.332843	10.0	2106074.0	0.466569	Y
6	ICIS 410-274149/13	10.0	4.688467	10.0	2081655.0	0.468847	Y
7	IC 410-274149/12	25.0	11.670649	10.0	2132698.0	0.466826	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

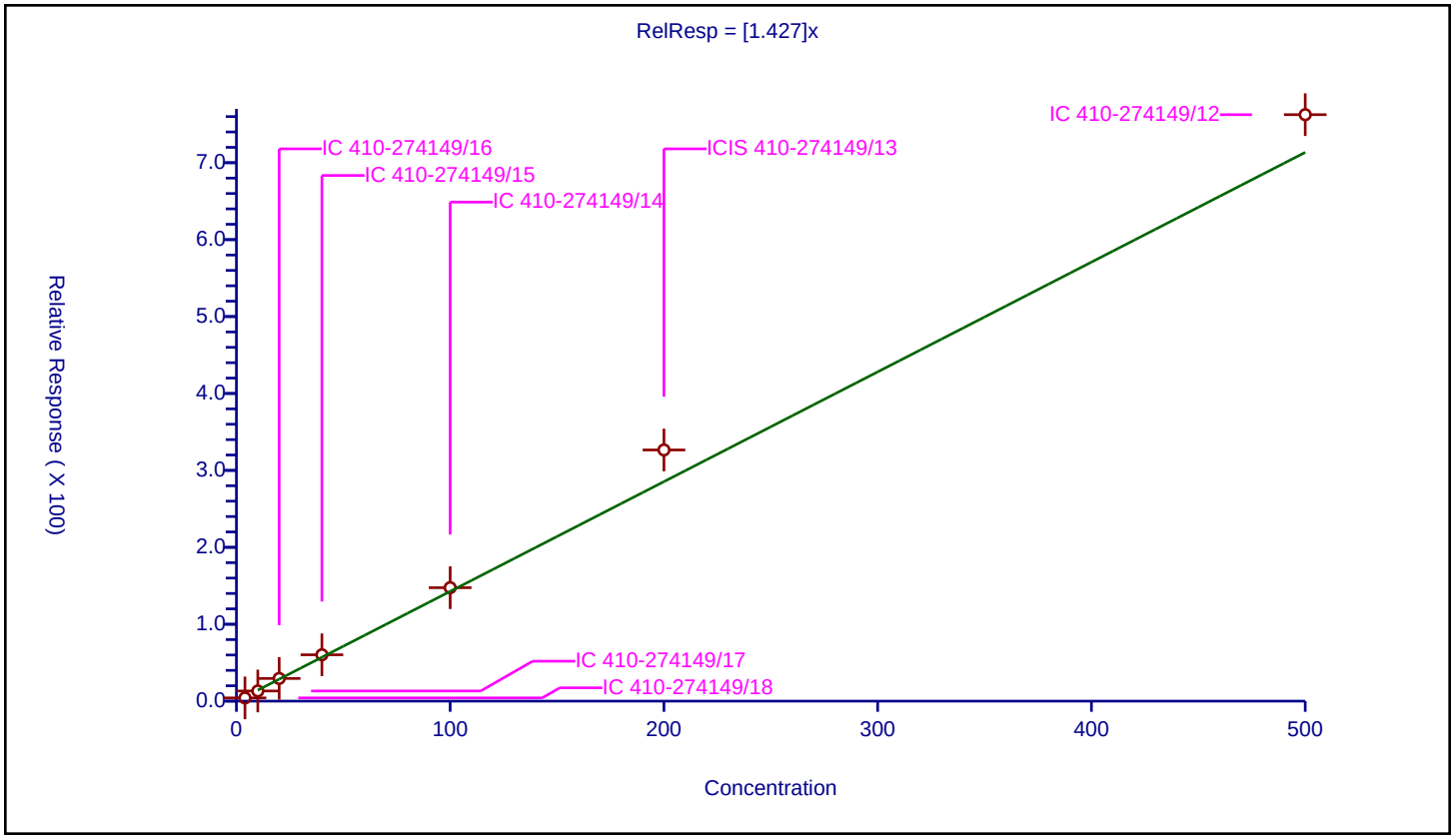
Curve Coefficients

Intercept:	0
Slope:	1.427

Error Coefficients

Standard Error:	678000
Relative Standard Error:	13.2
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	4.0	4.209843	50.0	127772.0	1.052461	Y
2	IC 410-274149/17	10.0	13.21922	50.0	81790.0	1.321922	Y
3	IC 410-274149/16	20.0	29.500609	50.0	87066.0	1.47503	Y
4	IC 410-274149/15	40.0	60.252362	50.0	107663.0	1.506309	Y
5	IC 410-274149/14	100.0	147.511056	50.0	120975.0	1.475111	Y
6	ICIS 410-274149/13	200.0	326.559633	50.0	101370.0	1.632798	Y
7	IC 410-274149/12	500.0	762.46874	50.0	96770.0	1.524937	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

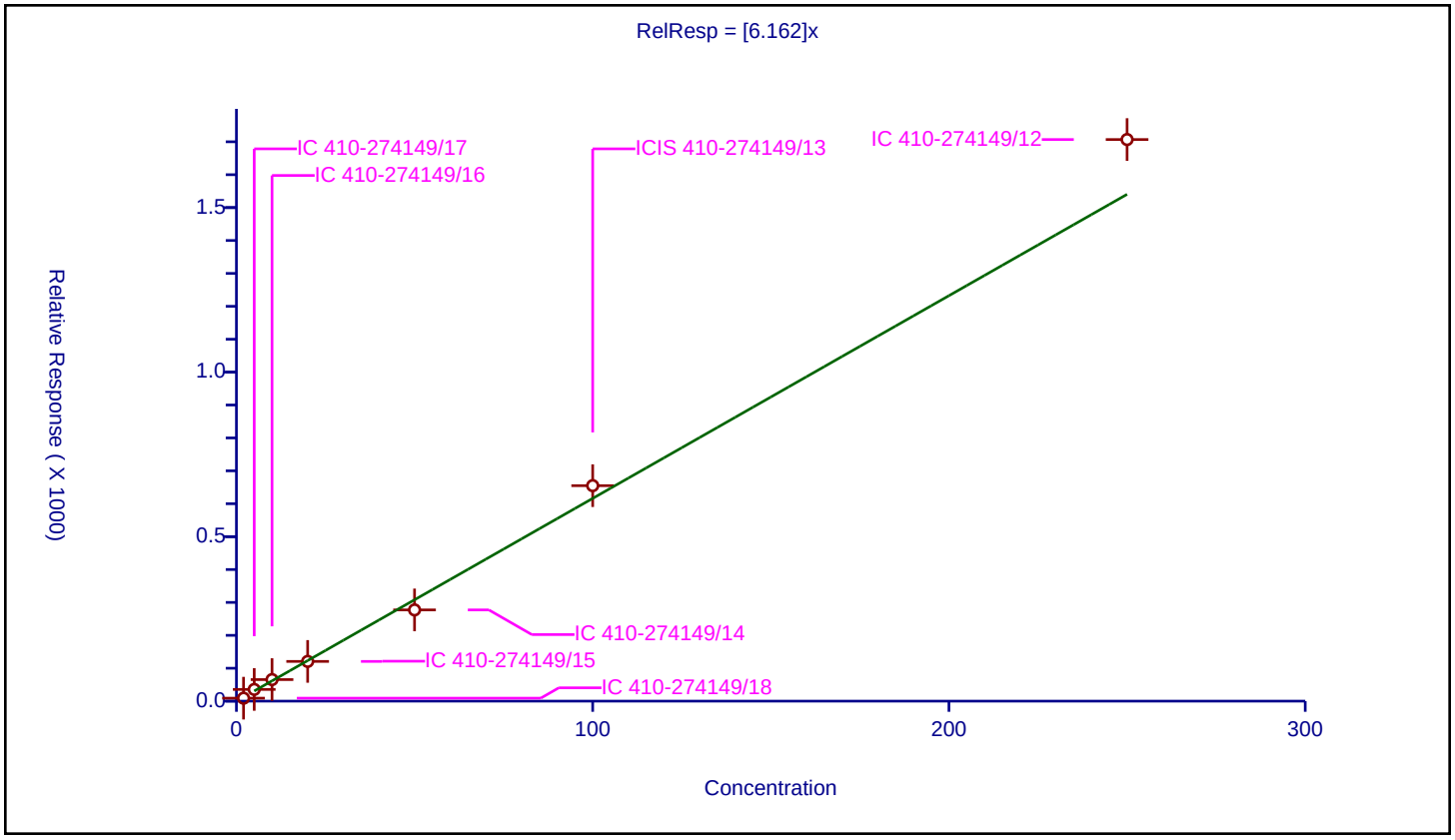
Curve Coefficients

Intercept:	0
Slope:	6.162

Error Coefficients

Standard Error:	1480000
Relative Standard Error:	14.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	2.0	9.003538	50.0	127772.0	4.501769	Y
2	IC 410-274149/17	5.0	35.580756	50.0	81790.0	7.116151	Y
3	IC 410-274149/16	10.0	65.564629	50.0	87066.0	6.556463	Y
4	IC 410-274149/15	20.0	120.701169	50.0	107663.0	6.035058	Y
5	IC 410-274149/14	50.0	277.282496	50.0	120975.0	5.54565	Y
6	ICIS 410-274149/13	100.0	654.886061	50.0	101370.0	6.548861	Y
7	IC 410-274149/12	250.0	1706.85388	50.0	96770.0	6.827416	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

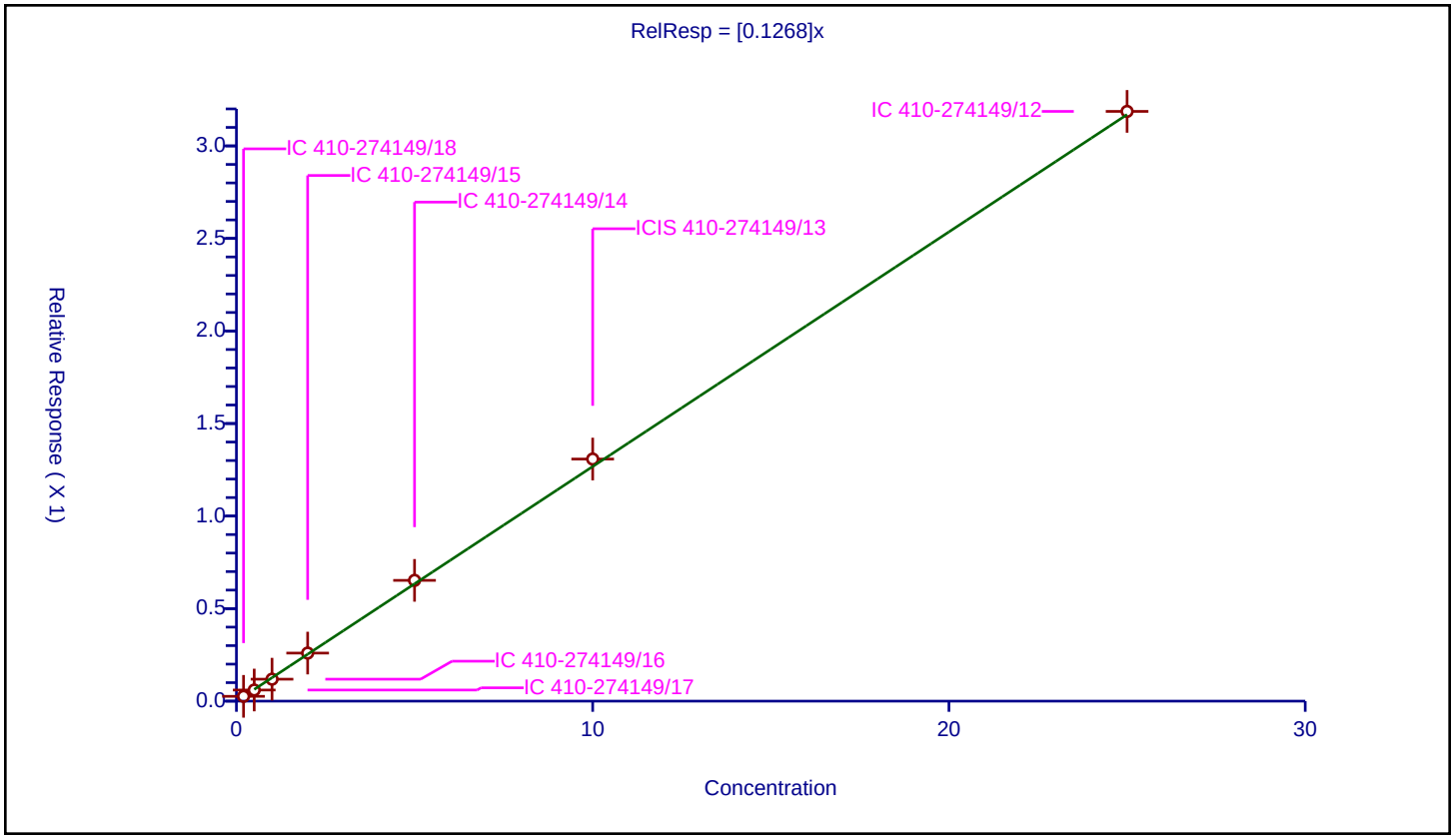
Curve Coefficients

Intercept:	0
Slope:	0.1268

Error Coefficients

Standard Error:	305000
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 410-274149/18	0.2	0.026013	10.0	2085513.0	0.130064	Y
2	IC 410-274149/17	0.5	0.06002	10.0	2031490.0	0.12004	Y
3	IC 410-274149/16	1.0	0.118662	10.0	2037557.0	0.118662	Y
4	IC 410-274149/15	2.0	0.259739	10.0	2031307.0	0.12987	Y
5	IC 410-274149/14	5.0	0.652541	10.0	2106074.0	0.130508	Y
6	ICIS 410-274149/13	10.0	1.308089	10.0	2081655.0	0.130809	Y
7	IC 410-274149/12	25.0	3.186532	10.0	2132698.0	0.127461	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

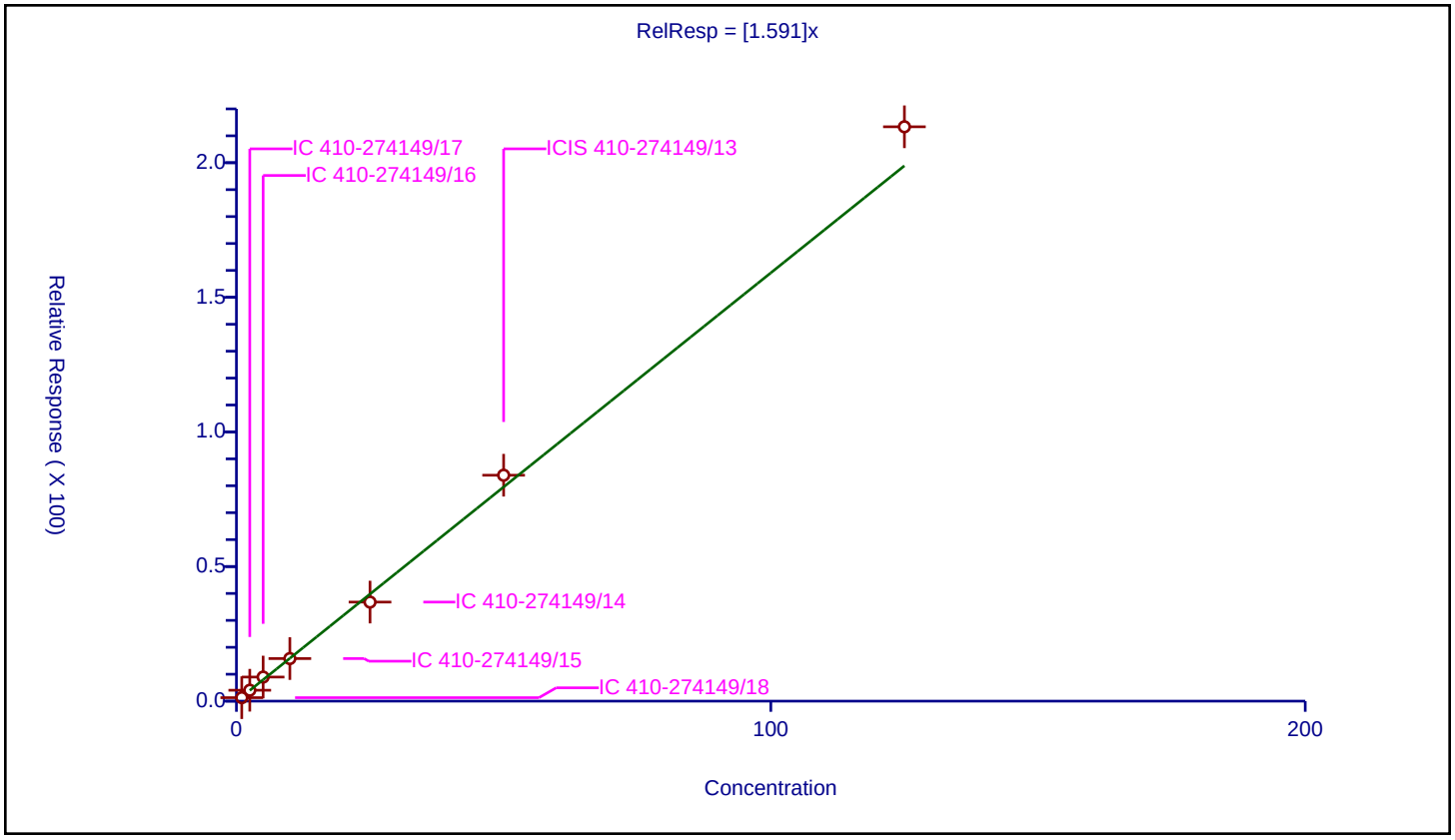
Curve Coefficients

Intercept:	0
Slope:	1.591

Error Coefficients

Standard Error:	186000
Relative Standard Error:	10.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	1.0	1.286276	50.0	127772.0	1.286276	Y
2	IC 410-274149/17	2.5	4.055508	50.0	81790.0	1.622203	Y
3	IC 410-274149/16	5.0	8.946087	50.0	87066.0	1.789217	Y
4	IC 410-274149/15	10.0	15.814625	50.0	107663.0	1.581463	Y
5	IC 410-274149/14	25.0	36.796859	50.0	120975.0	1.471874	Y
6	ICIS 410-274149/13	50.0	83.925224	50.0	101370.0	1.678504	Y
7	IC 410-274149/12	125.0	213.350212	50.0	96770.0	1.706802	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

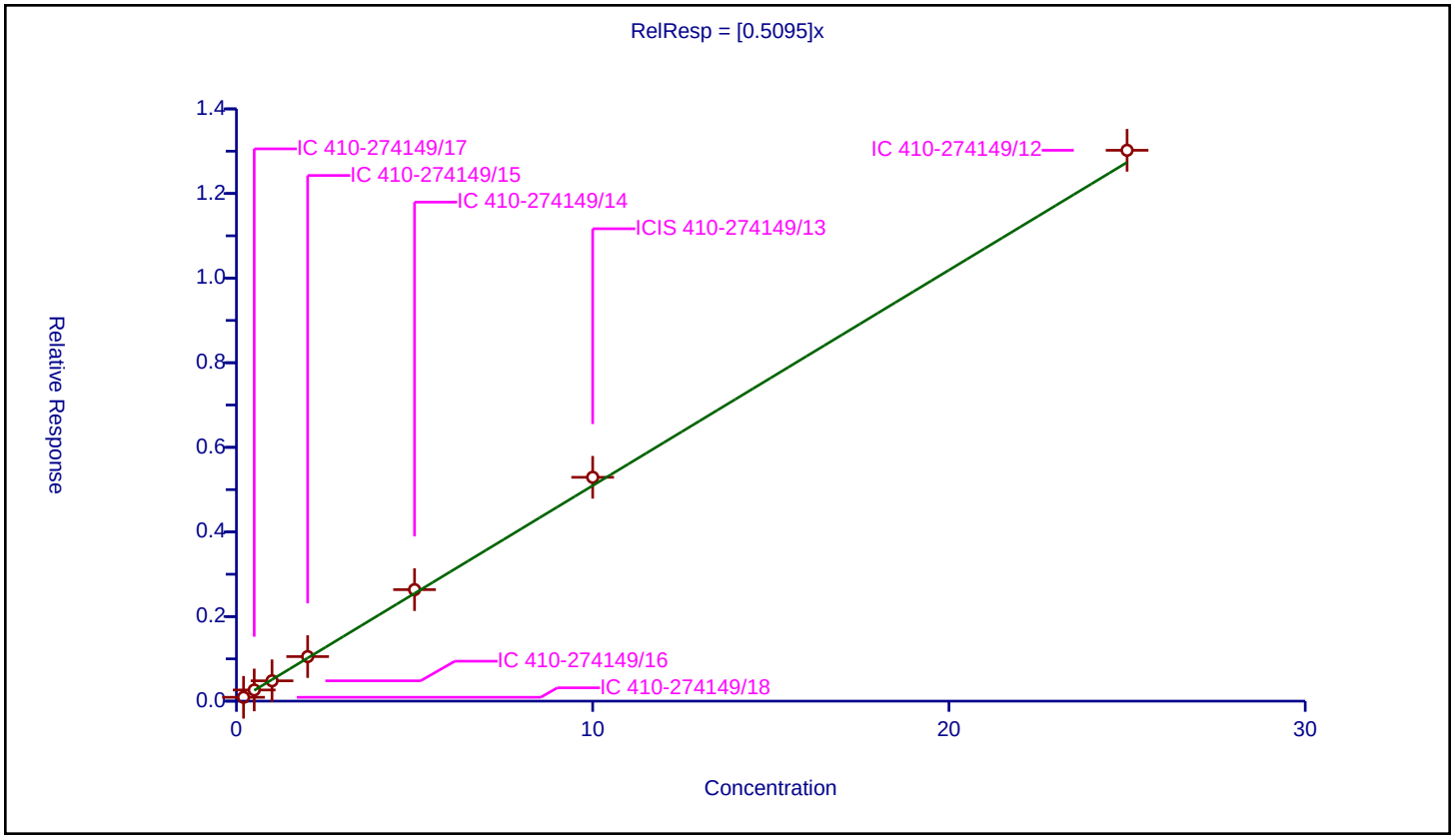
Curve Coefficients

Intercept:	0
Slope:	0.5095

Error Coefficients

Standard Error:	1240000
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 410-274149/18	0.2	0.090822	10.0	2085513.0	0.454109	Y
2	IC 410-274149/17	0.5	0.263831	10.0	2031490.0	0.527662	Y
3	IC 410-274149/16	1.0	0.481007	10.0	2037557.0	0.481007	Y
4	IC 410-274149/15	2.0	1.052692	10.0	2031307.0	0.526346	Y
5	IC 410-274149/14	5.0	2.635686	10.0	2106074.0	0.527137	Y
6	ICIS 410-274149/13	10.0	5.291223	10.0	2081655.0	0.529122	Y
7	IC 410-274149/12	25.0	13.021867	10.0	2132698.0	0.520875	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

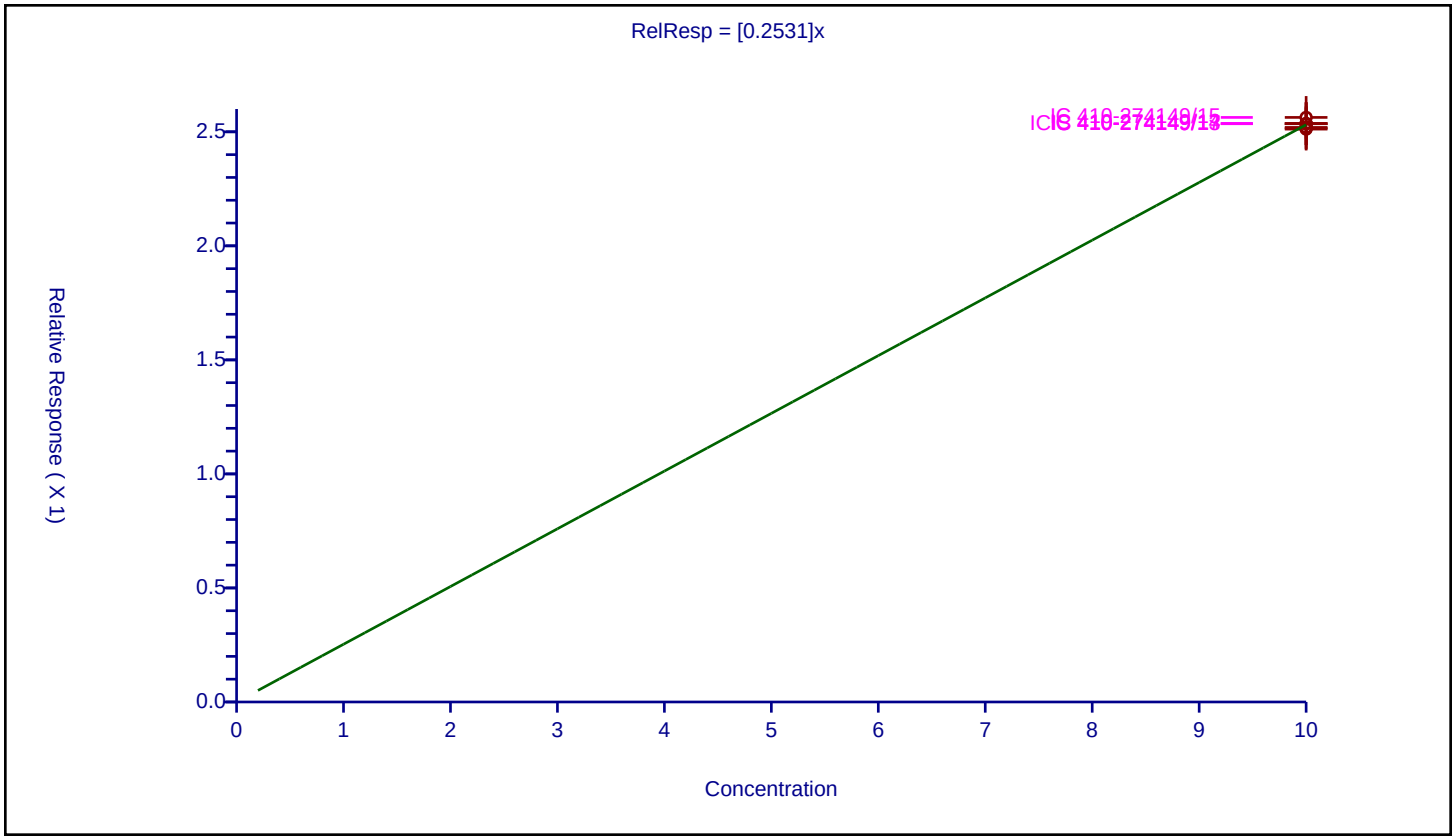
Curve Coefficients

Intercept:	0
Slope:	0.2531

Error Coefficients

Standard Error:	567000
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 410-274149/12	10.0	2.519175	10.0	2132698.0	0.251918	Y
2	ICIS 410-274149/13	10.0	2.535776	10.0	2081655.0	0.253578	Y
3	IC 410-274149/14	10.0	2.536445	10.0	2106074.0	0.253644	Y
4	IC 410-274149/15	10.0	2.563133	10.0	2031307.0	0.256313	Y
5	IC 410-274149/16	10.0	2.511787	10.0	2037557.0	0.251179	Y
6	IC 410-274149/17	10.0	2.53539	10.0	2031490.0	0.253539	Y
7	IC 410-274149/18	10.0	2.515765	10.0	2085513.0	0.251576	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

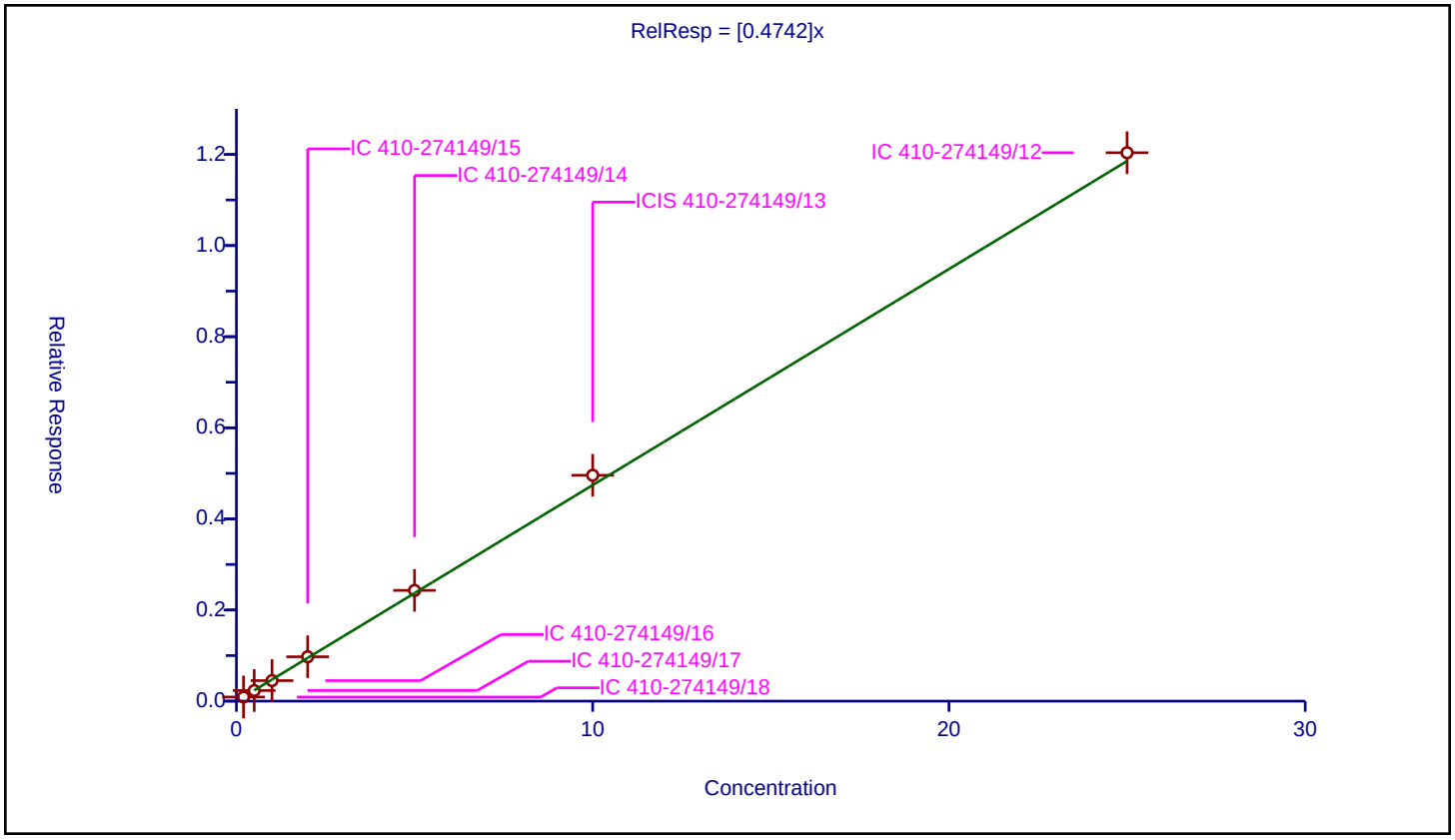
Curve Coefficients

Intercept:	0
Slope:	0.4742

Error Coefficients

Standard Error:	1150000
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 410-274149/18	0.2	0.090443	10.0	2085513.0	0.452215	Y
2	IC 410-274149/17	0.5	0.233051	10.0	2031490.0	0.466101	Y
3	IC 410-274149/16	1.0	0.450392	10.0	2037557.0	0.450392	Y
4	IC 410-274149/15	2.0	0.97425	10.0	2031307.0	0.487125	Y
5	IC 410-274149/14	5.0	2.430897	10.0	2106074.0	0.486179	Y
6	ICIS 410-274149/13	10.0	4.958079	10.0	2081655.0	0.495808	Y
7	IC 410-274149/12	25.0	12.037982	10.0	2132698.0	0.481519	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

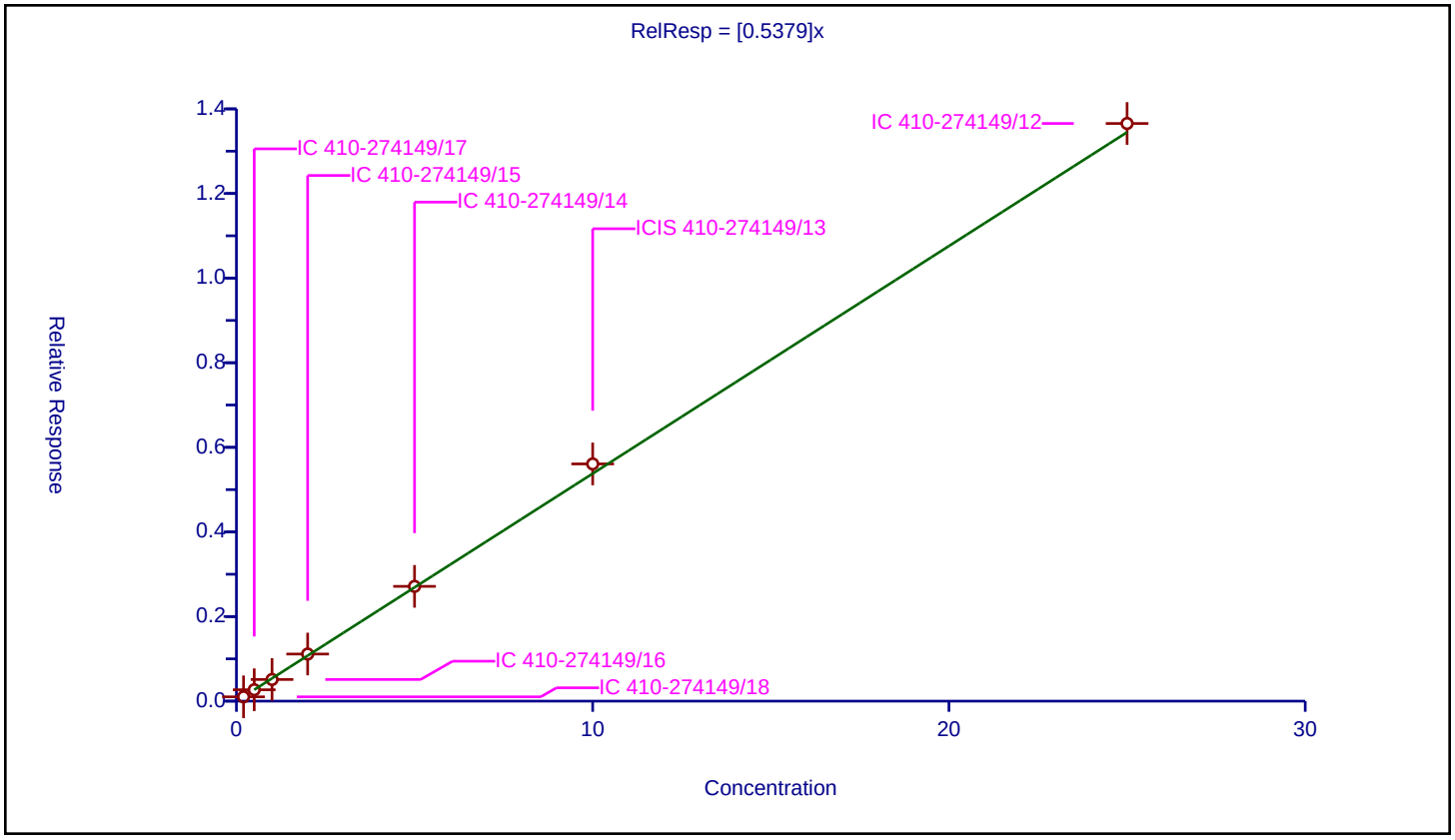
Curve Coefficients

Intercept:	0
Slope:	0.5379

Error Coefficients

Standard Error:	1310000
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 410-274149/18	0.2	0.101879	10.0	2085513.0	0.509395	Y
2	IC 410-274149/17	0.5	0.269014	10.0	2031490.0	0.538029	Y
3	IC 410-274149/16	1.0	0.511667	10.0	2037557.0	0.511667	Y
4	IC 410-274149/15	2.0	1.113529	10.0	2031307.0	0.556765	Y
5	IC 410-274149/14	5.0	2.7132	10.0	2106074.0	0.54264	Y
6	ICIS 410-274149/13	10.0	5.607764	10.0	2081655.0	0.560776	Y
7	IC 410-274149/12	25.0	13.654831	10.0	2132698.0	0.546193	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

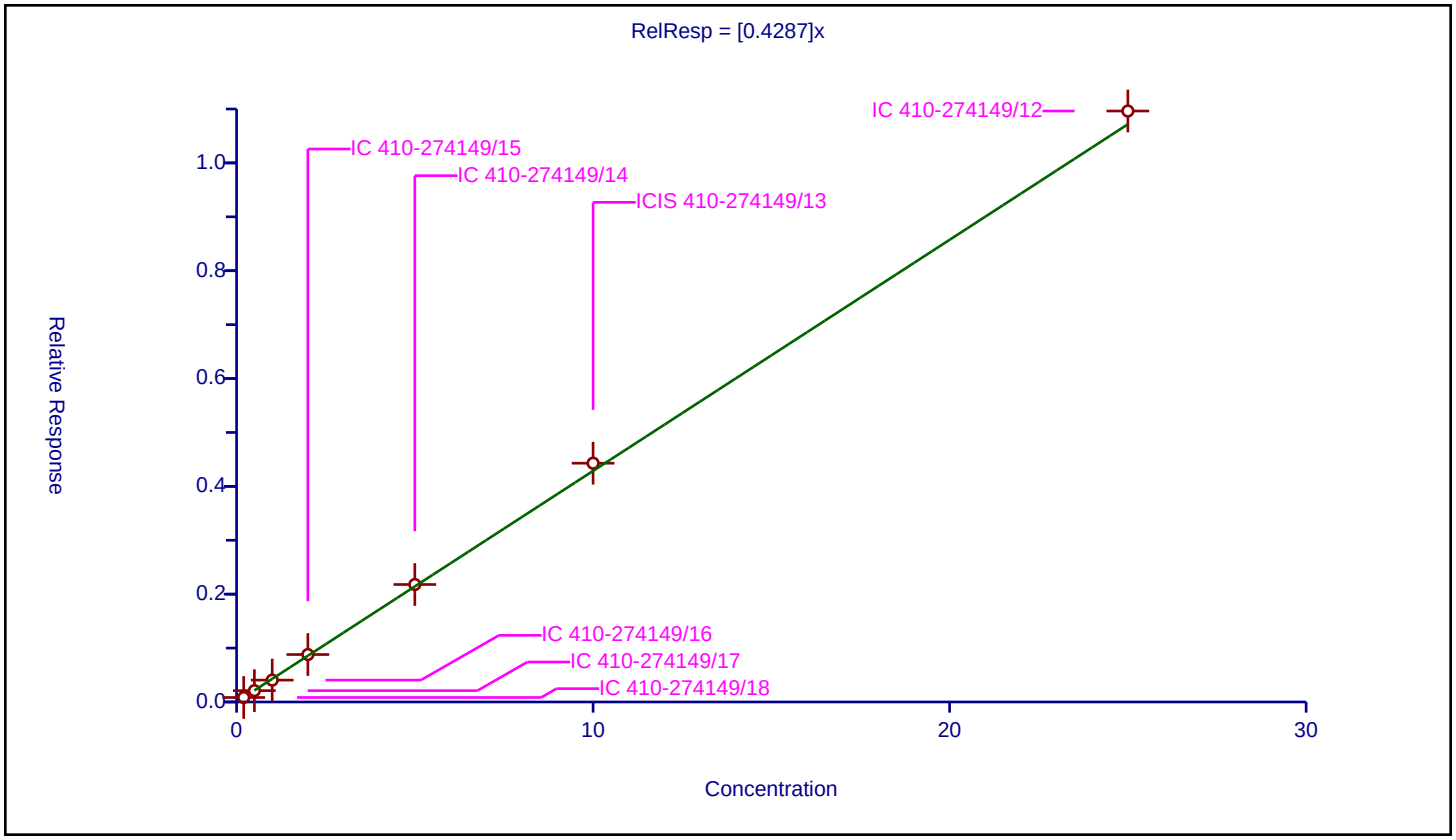
Curve Coefficients

Intercept:	0
Slope:	0.4287

Error Coefficients

Standard Error:	1050000
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 410-274149/18	0.2	0.083337	10.0	2085513.0	0.416684	Y
2	IC 410-274149/17	0.5	0.210368	10.0	2031490.0	0.420736	Y
3	IC 410-274149/16	1.0	0.405903	10.0	2037557.0	0.405903	Y
4	IC 410-274149/15	2.0	0.880143	10.0	2031307.0	0.440071	Y
5	IC 410-274149/14	5.0	2.17943	10.0	2106074.0	0.435886	Y
6	ICIS 410-274149/13	10.0	4.429485	10.0	2081655.0	0.442949	Y
7	IC 410-274149/12	25.0	10.962823	10.0	2132698.0	0.438513	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

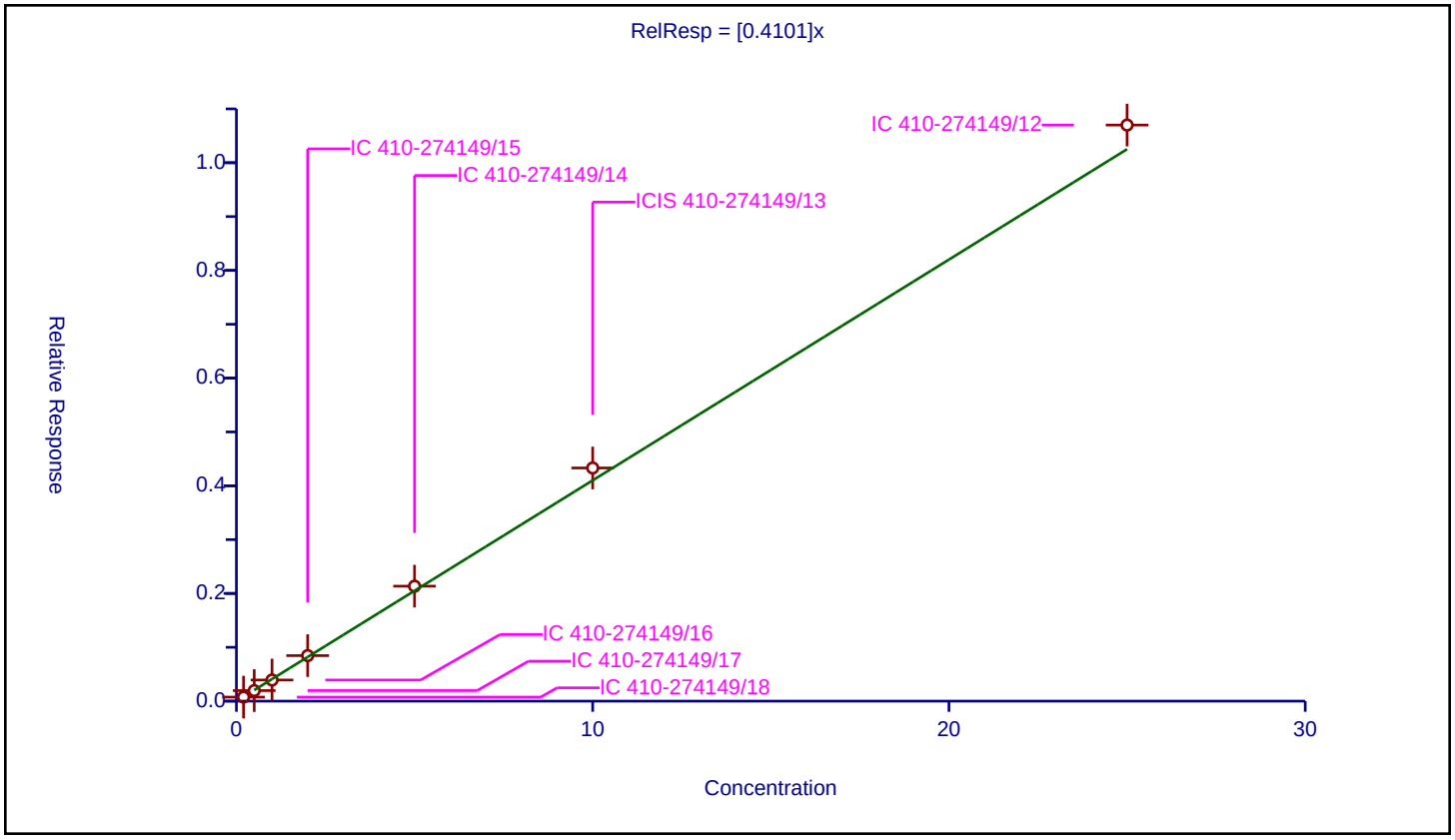
Curve Coefficients

Intercept:	0
Slope:	0.4101

Error Coefficients

Standard Error:	1020000
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 410-274149/18	0.2	0.074984	10.0	2085513.0	0.37492	Y
2	IC 410-274149/17	0.5	0.195994	10.0	2031490.0	0.391988	Y
3	IC 410-274149/16	1.0	0.392563	10.0	2037557.0	0.392563	Y
4	IC 410-274149/15	2.0	0.84553	10.0	2031307.0	0.422765	Y
5	IC 410-274149/14	5.0	2.135447	10.0	2106074.0	0.427089	Y
6	ICIS 410-274149/13	10.0	4.330689	10.0	2081655.0	0.433069	Y
7	IC 410-274149/12	25.0	10.699626	10.0	2132698.0	0.427985	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

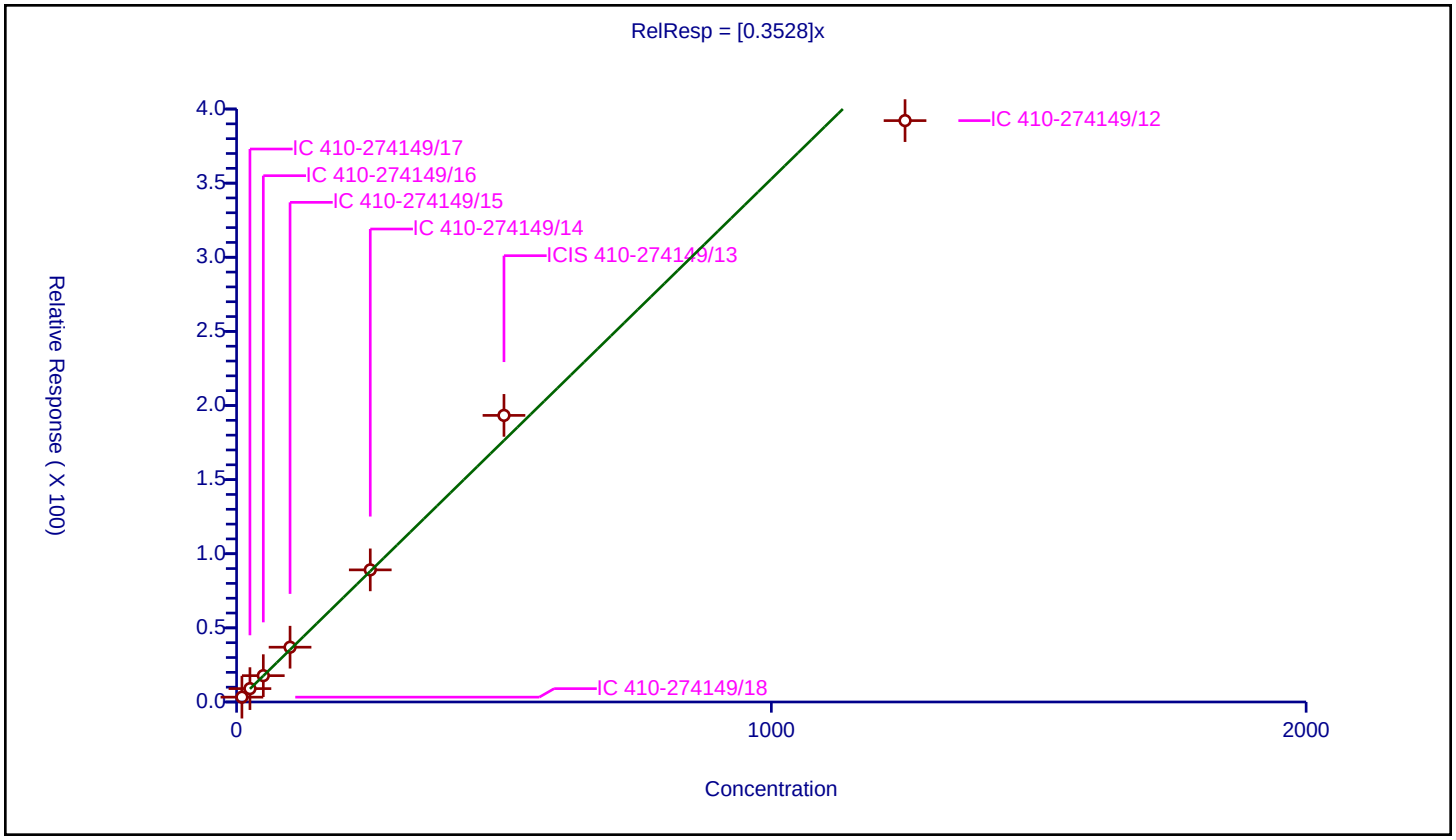
Curve Coefficients

Intercept:	0
Slope:	0.3528

Error Coefficients

Standard Error:	361000
Relative Standard Error:	7.1
Correlation Coefficient:	0.983
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	10.0	3.268713	50.0	127772.0	0.326871	Y
2	IC 410-274149/17	25.0	9.026165	50.0	81790.0	0.361047	Y
3	IC 410-274149/16	50.0	17.771576	50.0	87066.0	0.355432	Y
4	IC 410-274149/15	100.0	36.952806	50.0	107663.0	0.369528	Y
5	IC 410-274149/14	250.0	89.120066	50.0	120975.0	0.35648	Y
6	ICIS 410-274149/13	500.0	193.334813	50.0	101370.0	0.38667	Y
7	IC 410-274149/12	1250.0	392.176294	50.0	96770.0	0.313741	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

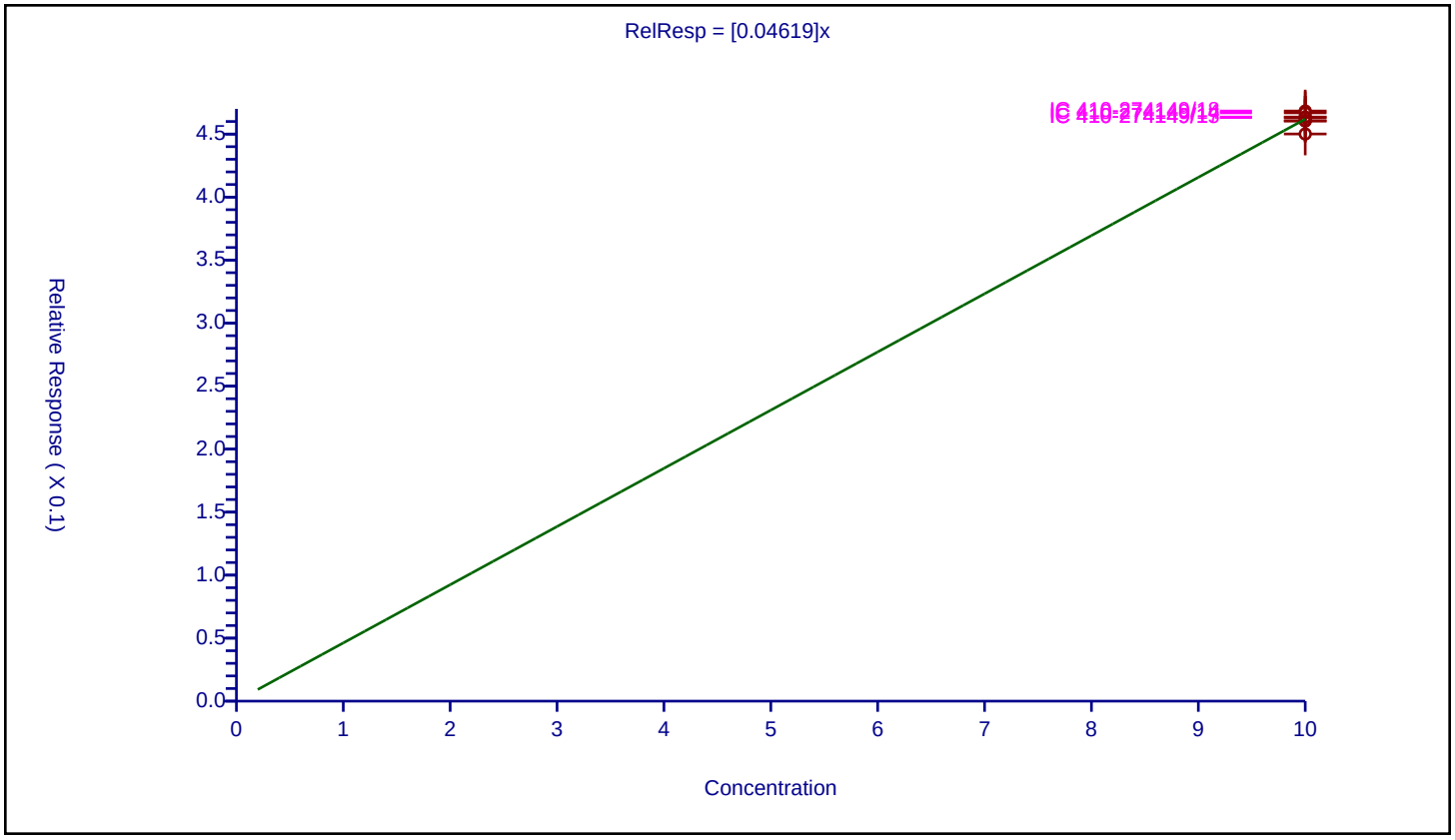
Curve Coefficients

Intercept:	0
Slope:	0.04619

Error Coefficients

Standard Error:	103000
Relative Standard Error:	1.3
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/12	10.0	0.460346	10.0	2132698.0	0.046035	Y
2	ICIS 410-274149/13	10.0	0.460658	10.0	2081655.0	0.046066	Y
3	IC 410-274149/14	10.0	0.466878	10.0	2106074.0	0.046688	Y
4	IC 410-274149/15	10.0	0.463539	10.0	2031307.0	0.046354	Y
5	IC 410-274149/16	10.0	0.450093	10.0	2037557.0	0.045009	Y
6	IC 410-274149/17	10.0	0.463167	10.0	2031490.0	0.046317	Y
7	IC 410-274149/18	10.0	0.468312	10.0	2085513.0	0.046831	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

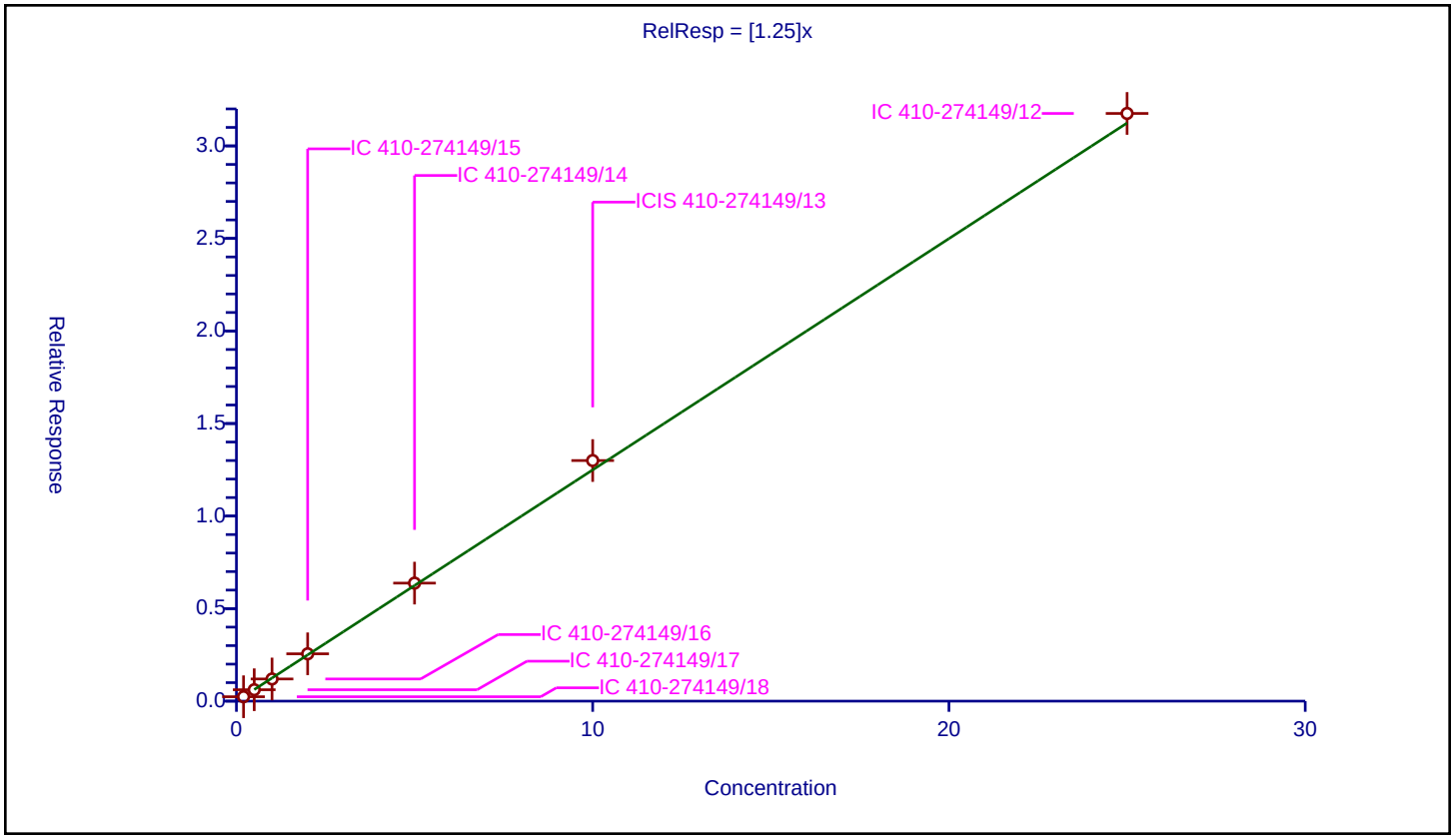
Curve Coefficients

Intercept:	0
Slope:	1.25

Error Coefficients

Standard Error:	3040000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	0.237946	10.0	2085513.0	1.189731	Y
2	IC 410-274149/17	0.5	0.617291	10.0	2031490.0	1.234582	Y
3	IC 410-274149/16	1.0	1.198038	10.0	2037557.0	1.198038	Y
4	IC 410-274149/15	2.0	2.557349	10.0	2031307.0	1.278674	Y
5	IC 410-274149/14	5.0	6.377535	10.0	2106074.0	1.275507	Y
6	ICIS 410-274149/13	10.0	12.999162	10.0	2081655.0	1.299916	Y
7	IC 410-274149/12	25.0	31.754051	10.0	2132698.0	1.270162	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

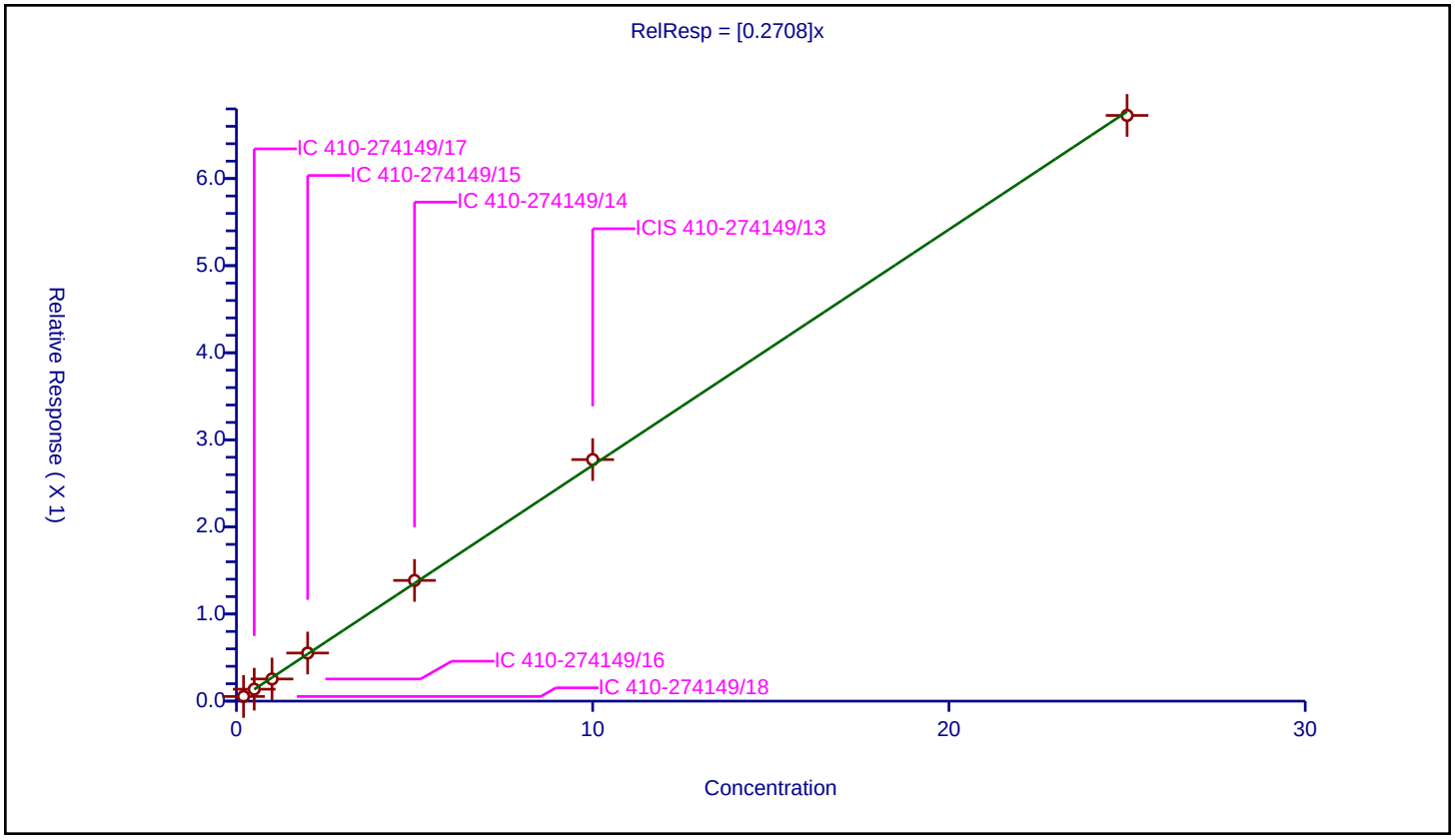
Curve Coefficients

Intercept:	0
Slope:	0.2708

Error Coefficients

Standard Error:	644000
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 410-274149/18	0.2	0.053387	10.0	2085513.0	0.266937	Y
2	IC 410-274149/17	0.5	0.137116	10.0	2031490.0	0.274232	Y
3	IC 410-274149/16	1.0	0.254309	10.0	2037557.0	0.254309	Y
4	IC 410-274149/15	2.0	0.552472	10.0	2031307.0	0.276236	Y
5	IC 410-274149/14	5.0	1.3862	10.0	2106074.0	0.27724	Y
6	ICIS 410-274149/13	10.0	2.773356	10.0	2081655.0	0.277336	Y
7	IC 410-274149/12	25.0	6.725092	10.0	2132698.0	0.269004	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

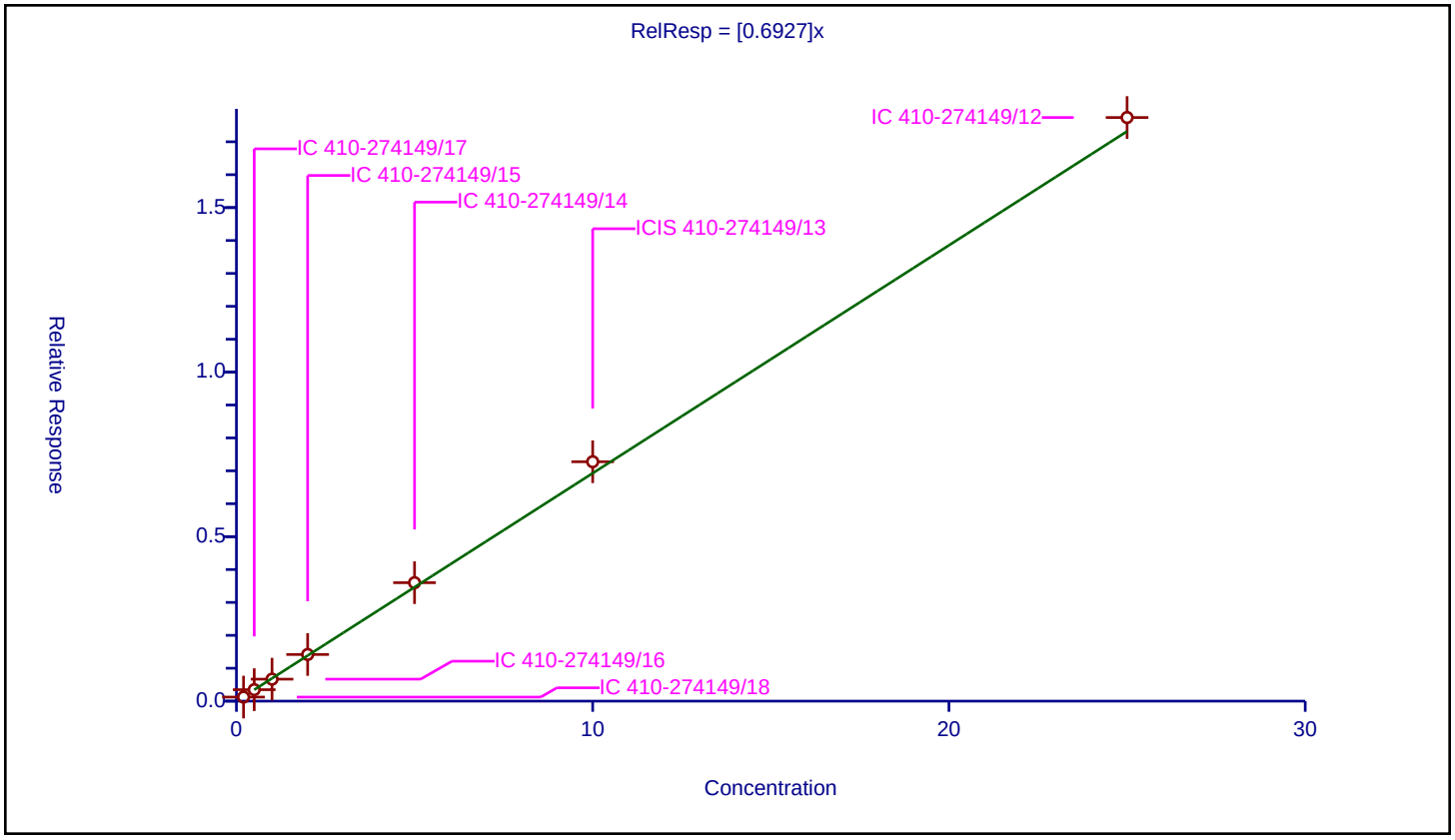
Curve Coefficients

Intercept:	0
Slope:	0.6927

Error Coefficients

Standard Error:	1700000
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 410-274149/18	0.2	0.123456	10.0	2085513.0	0.617282	Y
2	IC 410-274149/17	0.5	0.348646	10.0	2031490.0	0.697291	Y
3	IC 410-274149/16	1.0	0.668261	10.0	2037557.0	0.668261	Y
4	IC 410-274149/15	2.0	1.41755	10.0	2031307.0	0.708775	Y
5	IC 410-274149/14	5.0	3.600424	10.0	2106074.0	0.720085	Y
6	ICIS 410-274149/13	10.0	7.27635	10.0	2081655.0	0.727635	Y
7	IC 410-274149/12	25.0	17.737481	10.0	2132698.0	0.709499	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

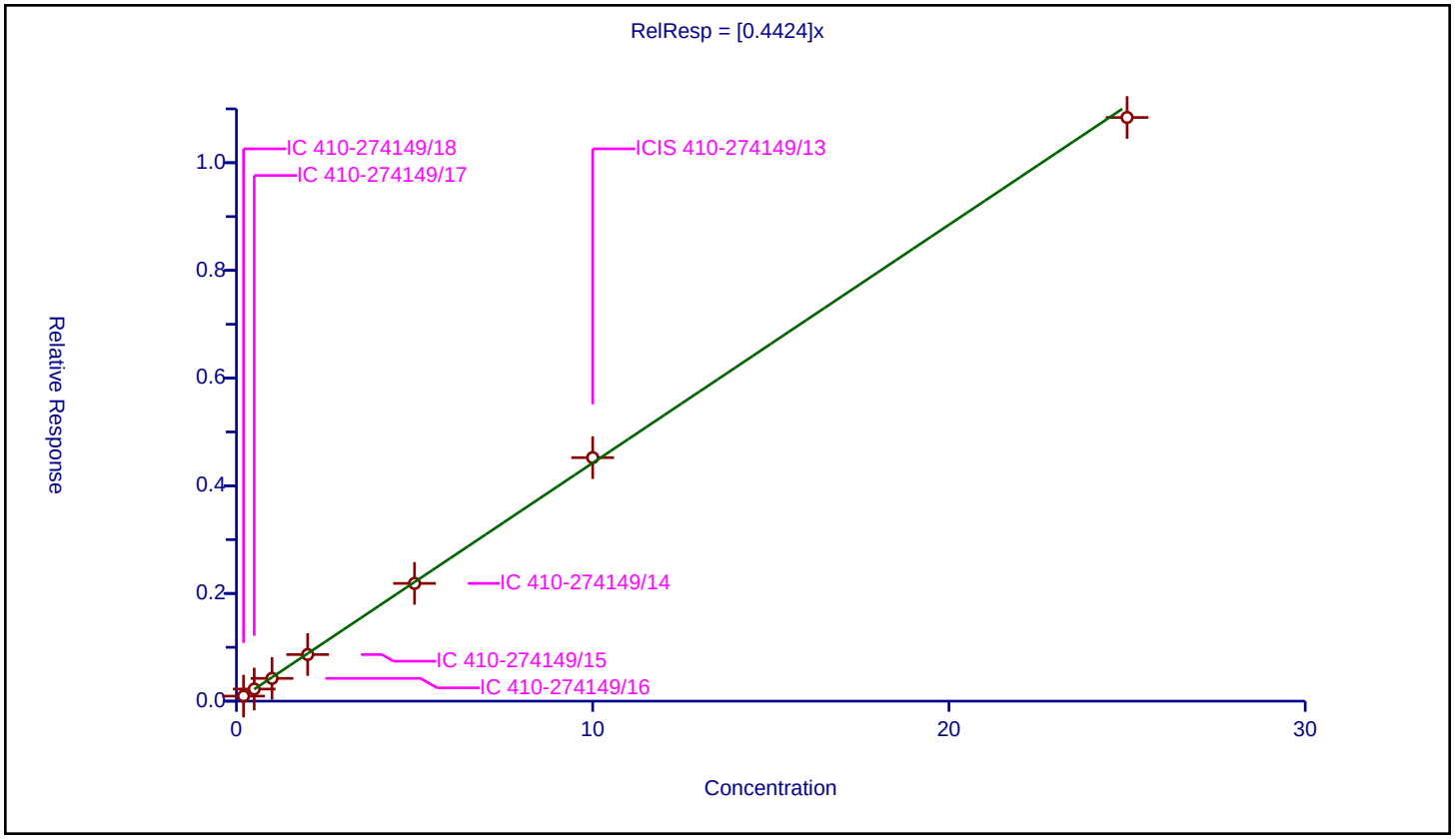
Curve Coefficients

Intercept:	0
Slope:	0.4424

Error Coefficients

Standard Error:	1040000
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 410-274149/18	0.2	0.093632	10.0	2085513.0	0.468158	Y
2	IC 410-274149/17	0.5	0.224909	10.0	2031490.0	0.449818	Y
3	IC 410-274149/16	1.0	0.422619	10.0	2037557.0	0.422619	Y
4	IC 410-274149/15	2.0	0.865566	10.0	2031307.0	0.432783	Y
5	IC 410-274149/14	5.0	2.186917	10.0	2106074.0	0.437383	Y
6	ICIS 410-274149/13	10.0	4.522709	10.0	2081655.0	0.452271	Y
7	IC 410-274149/12	25.0	10.840311	10.0	2132698.0	0.433612	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

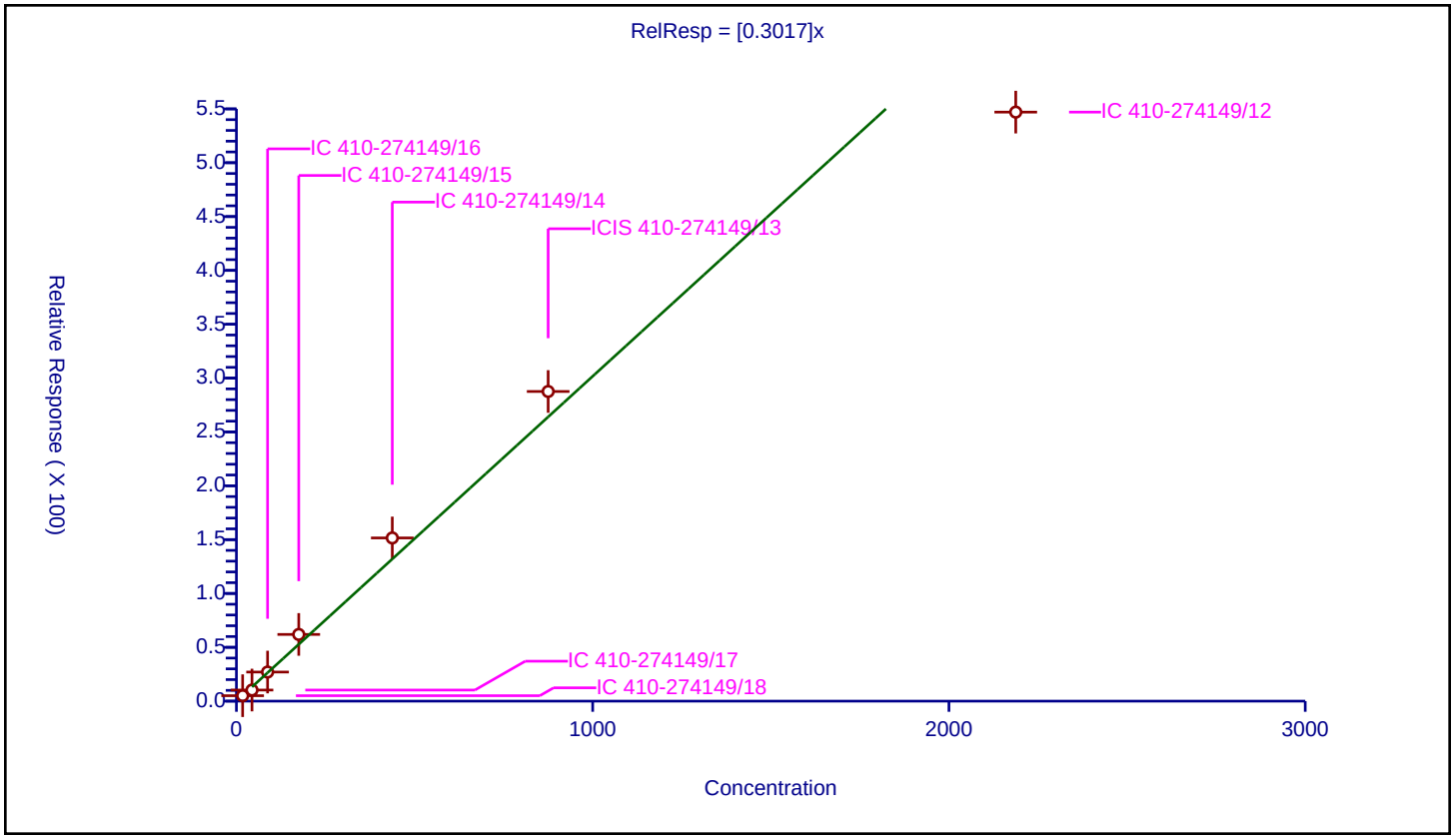
Curve Coefficients

Intercept:	0
Slope:	0.3017

Error Coefficients

Standard Error:	519000
Relative Standard Error:	15.3
Correlation Coefficient:	0.964
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	17.5	5.046098	50.0	127772.0	0.288348	Y
2	IC 410-274149/17	43.75	10.301993	50.0	81790.0	0.235474	Y
3	IC 410-274149/16	87.5	27.034089	50.0	87066.0	0.308961	Y
4	IC 410-274149/15	175.0	61.933998	50.0	107663.0	0.353909	Y
5	IC 410-274149/14	437.5	151.551974	50.0	120975.0	0.346405	Y
6	ICIS 410-274149/13	875.0	287.572753	50.0	101370.0	0.328655	Y
7	IC 410-274149/12	2187.5	547.018187	50.0	96770.0	0.250065	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

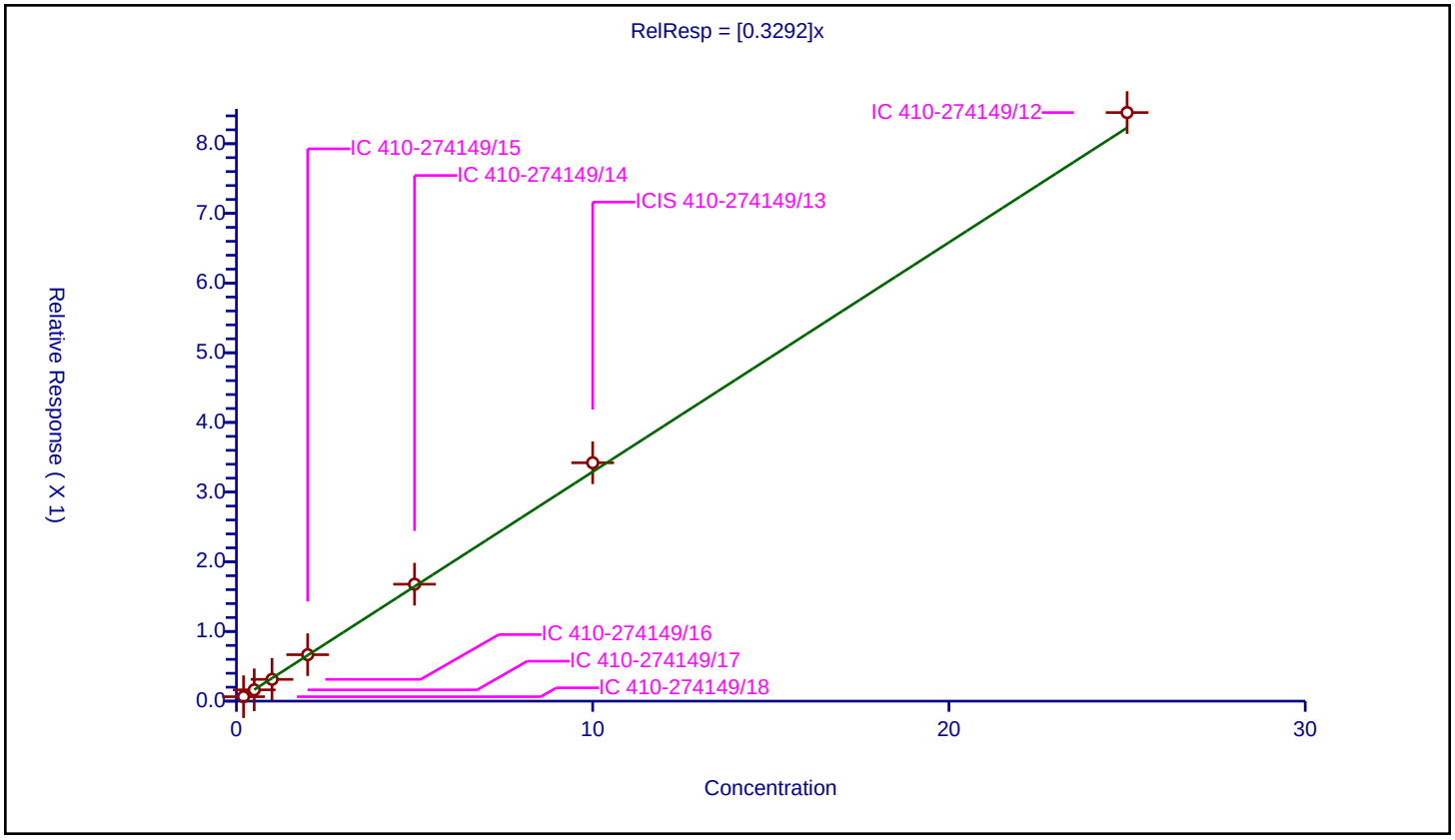
Curve Coefficients

Intercept:	0
Slope:	0.3292

Error Coefficients

Standard Error:	806000
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 410-274149/18	0.2	0.063649	10.0	2085513.0	0.318243	Y
2	IC 410-274149/17	0.5	0.162324	10.0	2031490.0	0.324648	Y
3	IC 410-274149/16	1.0	0.312408	10.0	2037557.0	0.312408	Y
4	IC 410-274149/15	2.0	0.666399	10.0	2031307.0	0.333199	Y
5	IC 410-274149/14	5.0	1.678265	10.0	2106074.0	0.335653	Y
6	ICIS 410-274149/13	10.0	3.42148	10.0	2081655.0	0.342148	Y
7	IC 410-274149/12	25.0	8.447713	10.0	2132698.0	0.337909	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

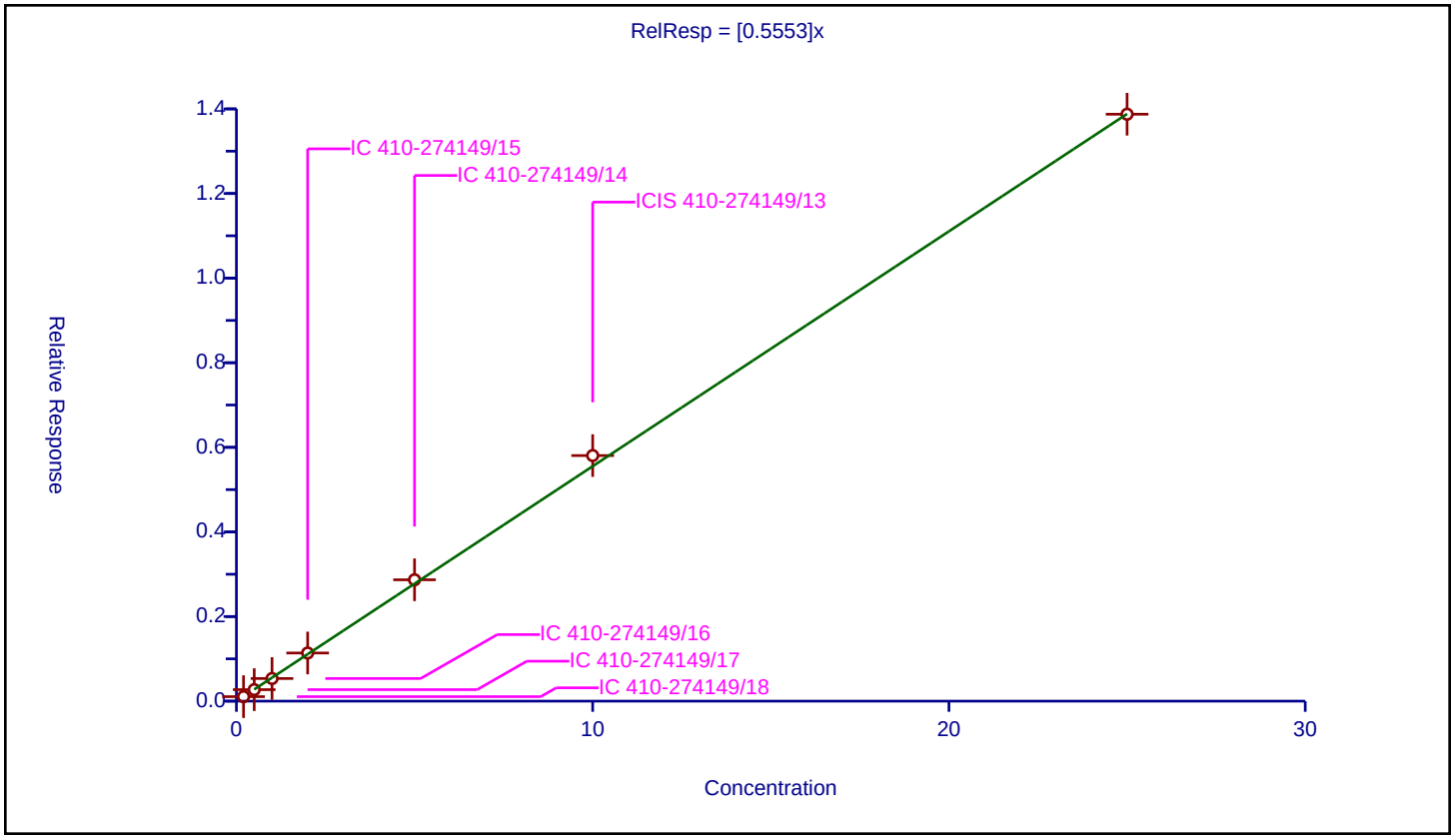
Curve Coefficients

Intercept:	0
Slope:	0.5553

Error Coefficients

Standard Error:	1330000
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 410-274149/18	0.2	0.10596	10.0	2085513.0	0.529798	Y
2	IC 410-274149/17	0.5	0.271899	10.0	2031490.0	0.543798	Y
3	IC 410-274149/16	1.0	0.535033	10.0	2037557.0	0.535033	Y
4	IC 410-274149/15	2.0	1.138179	10.0	2031307.0	0.569089	Y
5	IC 410-274149/14	5.0	2.868859	10.0	2106074.0	0.573772	Y
6	ICIS 410-274149/13	10.0	5.804929	10.0	2081655.0	0.580493	Y
7	IC 410-274149/12	25.0	13.873854	10.0	2132698.0	0.554954	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

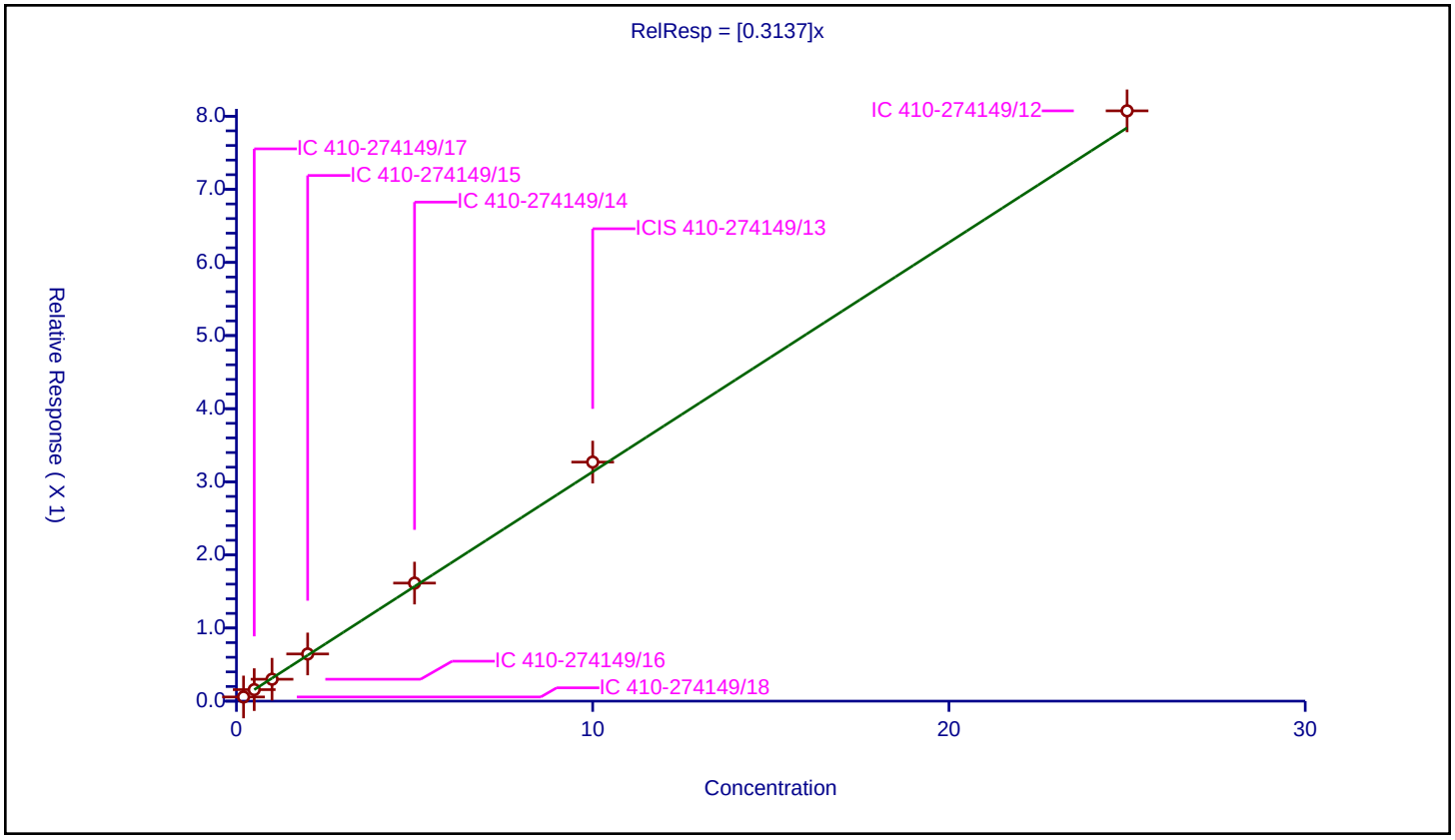
Curve Coefficients

Intercept:	0
Slope:	0.3137

Error Coefficients

Standard Error:	771000
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 410-274149/18	0.2	0.057175	10.0	2085513.0	0.285877	Y
2	IC 410-274149/17	0.5	0.157397	10.0	2031490.0	0.314794	Y
3	IC 410-274149/16	1.0	0.299511	10.0	2037557.0	0.299511	Y
4	IC 410-274149/15	2.0	0.645397	10.0	2031307.0	0.322699	Y
5	IC 410-274149/14	5.0	1.614502	10.0	2106074.0	0.3229	Y
6	ICIS 410-274149/13	10.0	3.269485	10.0	2081655.0	0.326949	Y
7	IC 410-274149/12	25.0	8.073347	10.0	2132698.0	0.322934	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

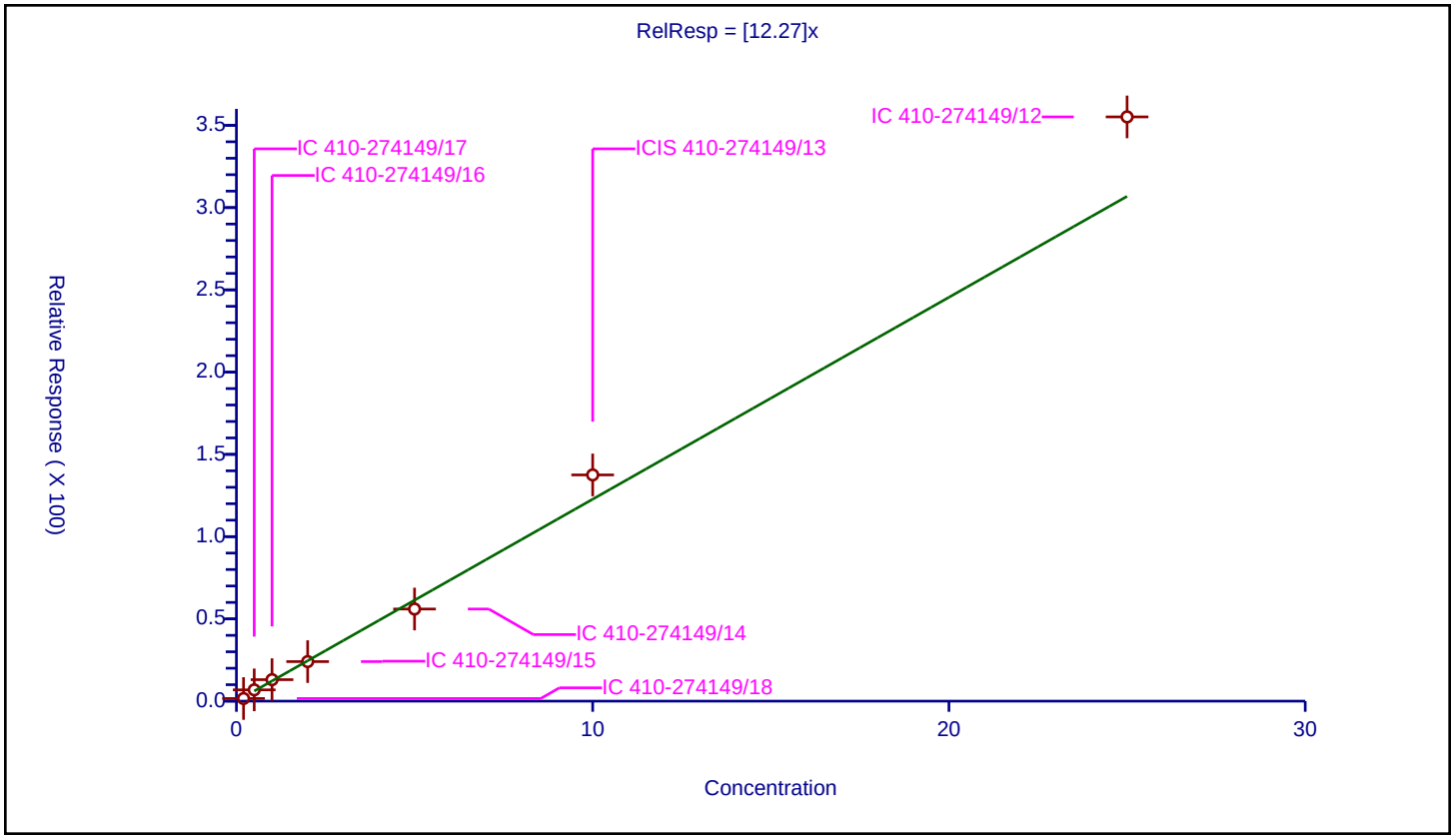
Curve Coefficients

Intercept:	0
Slope:	12.27

Error Coefficients

Standard Error:	309000
Relative Standard Error:	17.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.965

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	1.593463	50.0	127772.0	7.967317	Y
2	IC 410-274149/17	0.5	6.862697	50.0	81790.0	13.725394	Y
3	IC 410-274149/16	1.0	13.051019	50.0	87066.0	13.051019	Y
4	IC 410-274149/15	2.0	24.040757	50.0	107663.0	12.020378	Y
5	IC 410-274149/14	5.0	55.99256	50.0	120975.0	11.198512	Y
6	ICIS 410-274149/13	10.0	137.509125	50.0	101370.0	13.750912	Y
7	IC 410-274149/12	25.0	355.128139	50.0	96770.0	14.205126	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

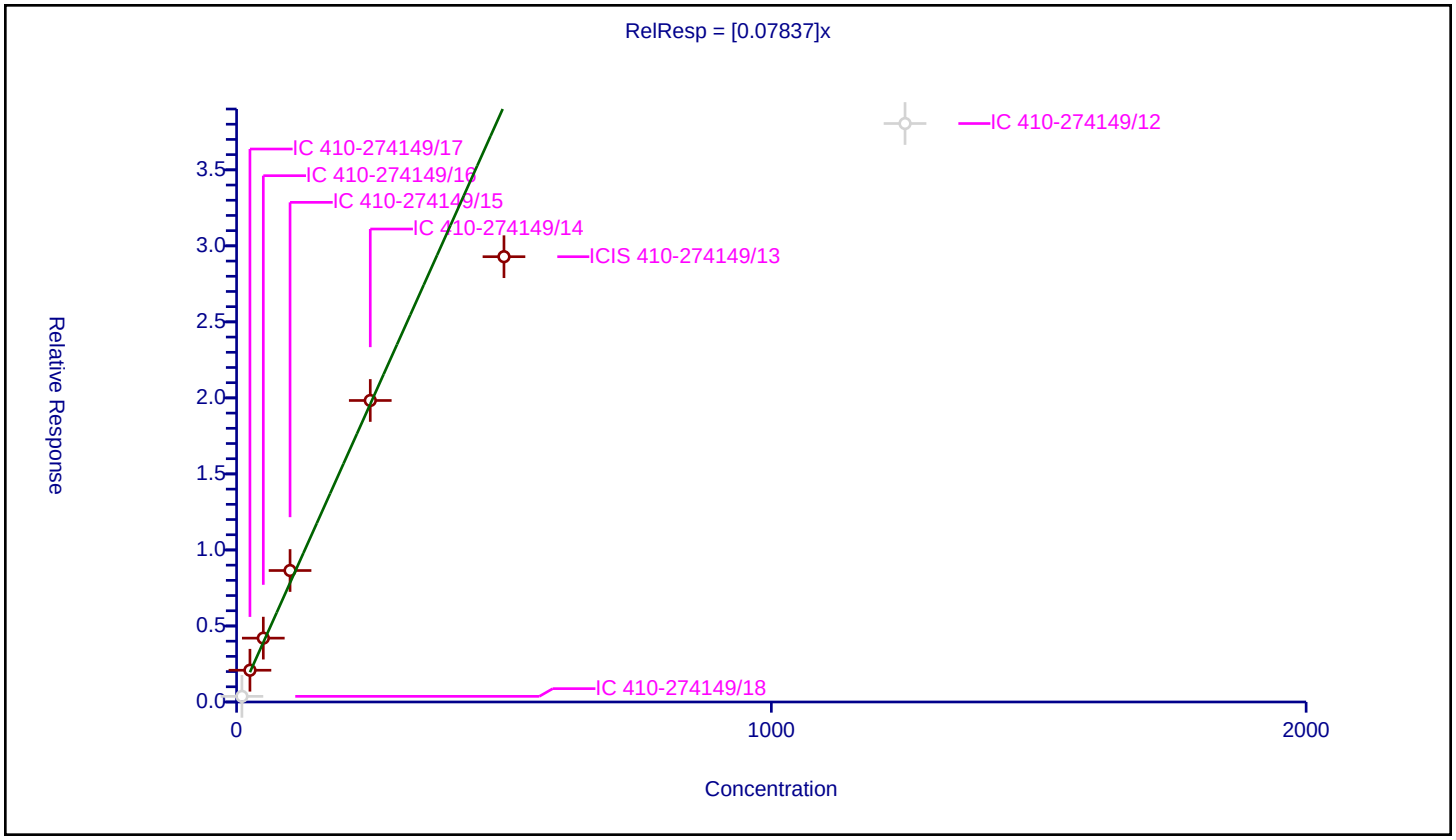
Curve Coefficients

Intercept:	0
Slope:	0.07837

Error Coefficients

Standard Error:	39500
Relative Standard Error:	14.5
Correlation Coefficient:	0.905
Coefficient of Determination (Adjusted):	0.958

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	10.0	0.370582	50.0	127772.0	0.037058	N
2	IC 410-274149/17	25.0	2.087664	50.0	81790.0	0.083507	Y
3	IC 410-274149/16	50.0	4.199113	50.0	87066.0	0.083982	Y
4	IC 410-274149/15	100.0	8.648282	50.0	107663.0	0.086483	Y
5	IC 410-274149/14	250.0	19.829304	50.0	120975.0	0.079317	Y
6	ICIS 410-274149/13	500.0	29.287264	50.0	101370.0	0.058575	Y
7	IC 410-274149/12	1250.0	38.046399	50.0	96770.0	0.030437	N



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

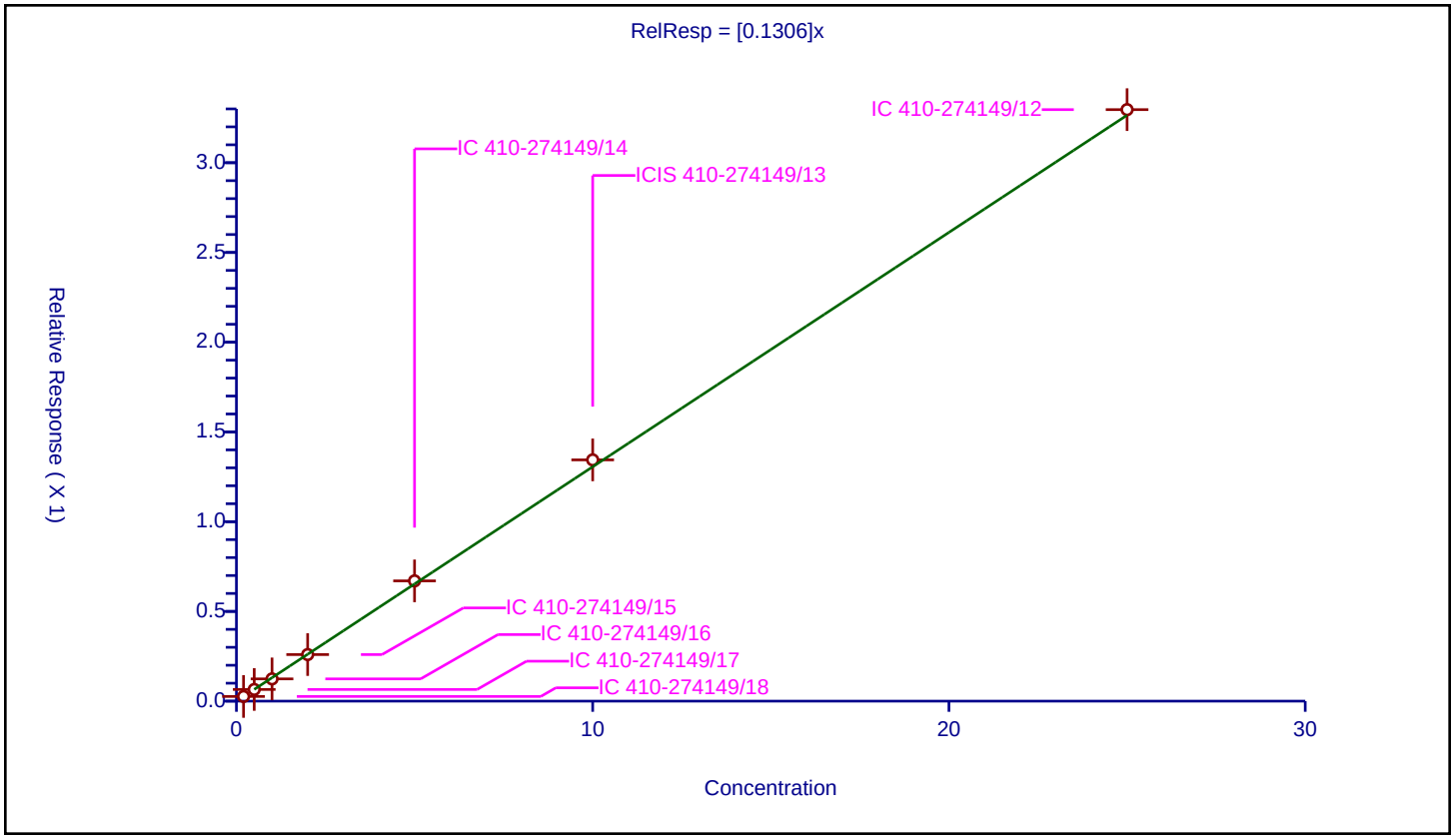
Curve Coefficients

Intercept:	0
Slope:	0.1306

Error Coefficients

Standard Error:	315000
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 410-274149/18	0.2	0.026013	10.0	2085513.0	0.130064	Y
2	IC 410-274149/17	0.5	0.065031	10.0	2031490.0	0.130062	Y
3	IC 410-274149/16	1.0	0.123987	10.0	2037557.0	0.123987	Y
4	IC 410-274149/15	2.0	0.259532	10.0	2031307.0	0.129766	Y
5	IC 410-274149/14	5.0	0.670152	10.0	2106074.0	0.13403	Y
6	ICIS 410-274149/13	10.0	1.344253	10.0	2081655.0	0.134425	Y
7	IC 410-274149/12	25.0	3.295882	10.0	2132698.0	0.131835	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

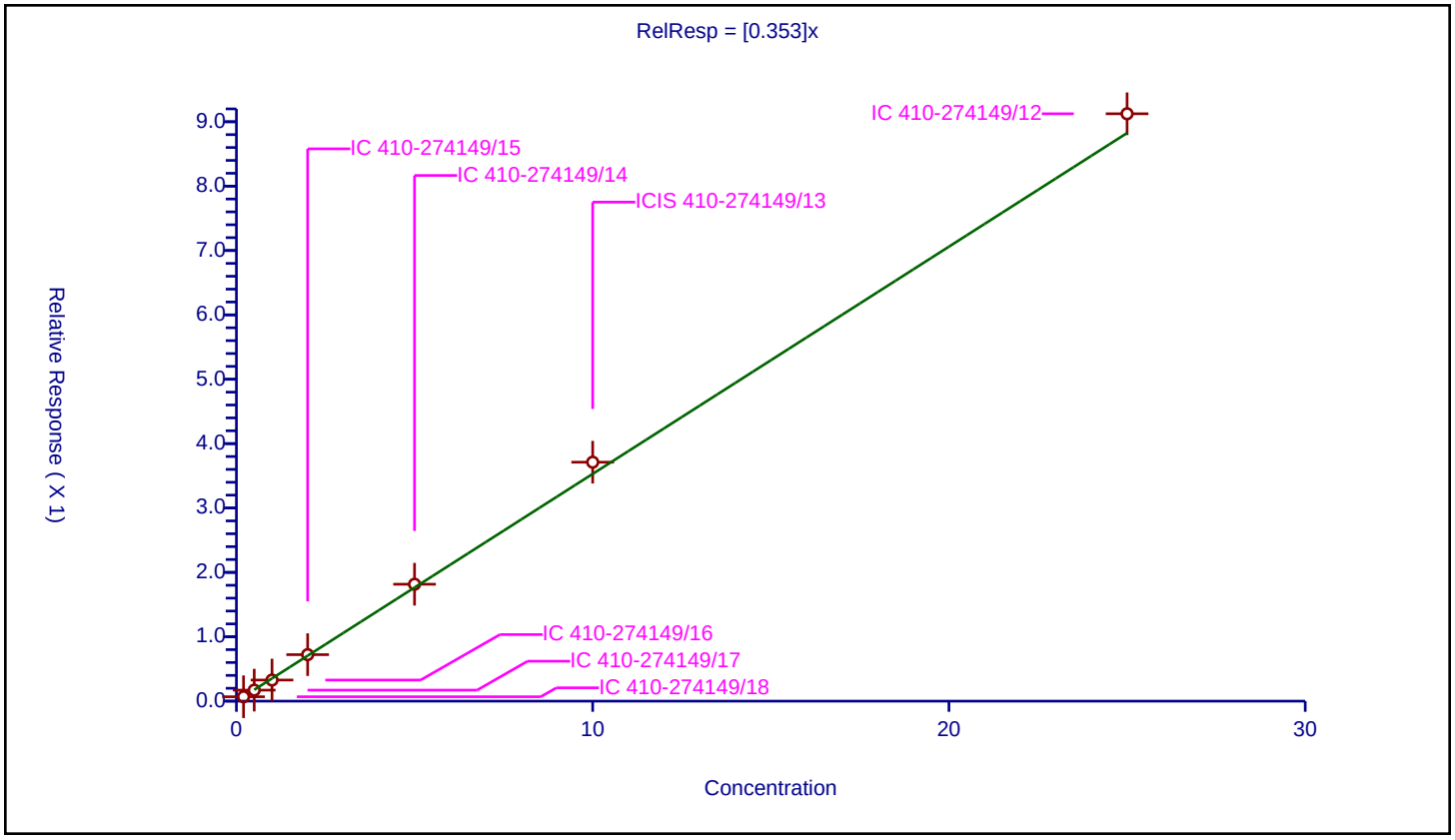
Curve Coefficients

Intercept:	0
Slope:	0.353

Error Coefficients

Standard Error:	872000
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 410-274149/18	0.2	0.068002	10.0	2085513.0	0.340012	Y
2	IC 410-274149/17	0.5	0.171234	10.0	2031490.0	0.342468	Y
3	IC 410-274149/16	1.0	0.32804	10.0	2037557.0	0.32804	Y
4	IC 410-274149/15	2.0	0.722092	10.0	2031307.0	0.361046	Y
5	IC 410-274149/14	5.0	1.816147	10.0	2106074.0	0.363229	Y
6	ICIS 410-274149/13	10.0	3.711926	10.0	2081655.0	0.371193	Y
7	IC 410-274149/12	25.0	9.124091	10.0	2132698.0	0.364964	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

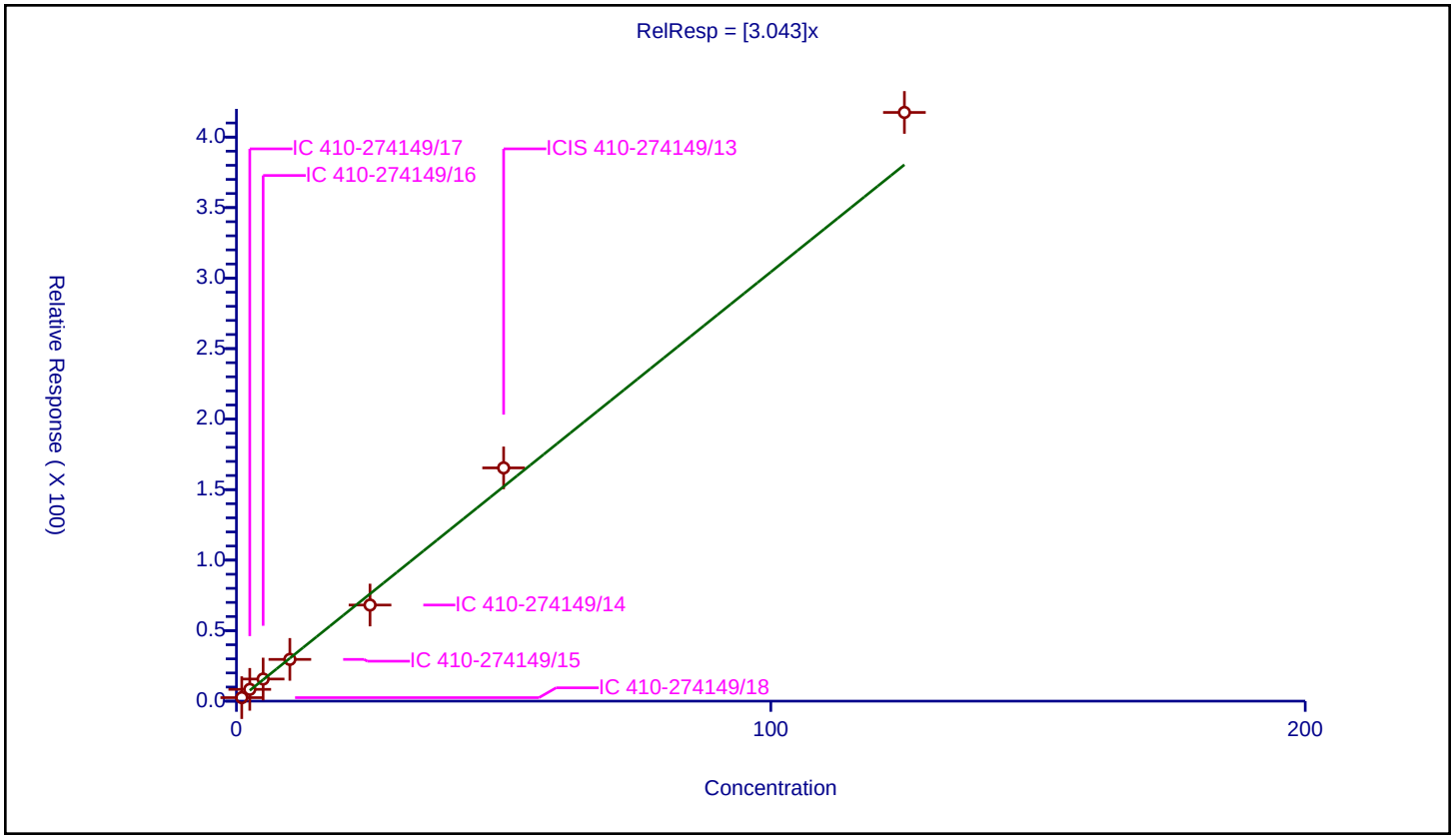
Curve Coefficients

Intercept:	0
Slope:	3.043

Error Coefficients

Standard Error:	364000
Relative Standard Error:	11.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	1.0	2.48646	50.0	127772.0	2.48646	Y
2	IC 410-274149/17	2.5	8.364103	50.0	81790.0	3.345641	Y
3	IC 410-274149/16	5.0	15.680633	50.0	87066.0	3.136127	Y
4	IC 410-274149/15	10.0	29.607665	50.0	107663.0	2.960766	Y
5	IC 410-274149/14	25.0	68.152924	50.0	120975.0	2.726117	Y
6	ICIS 410-274149/13	50.0	165.41679	50.0	101370.0	3.308336	Y
7	IC 410-274149/12	125.0	417.486308	50.0	96770.0	3.33989	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

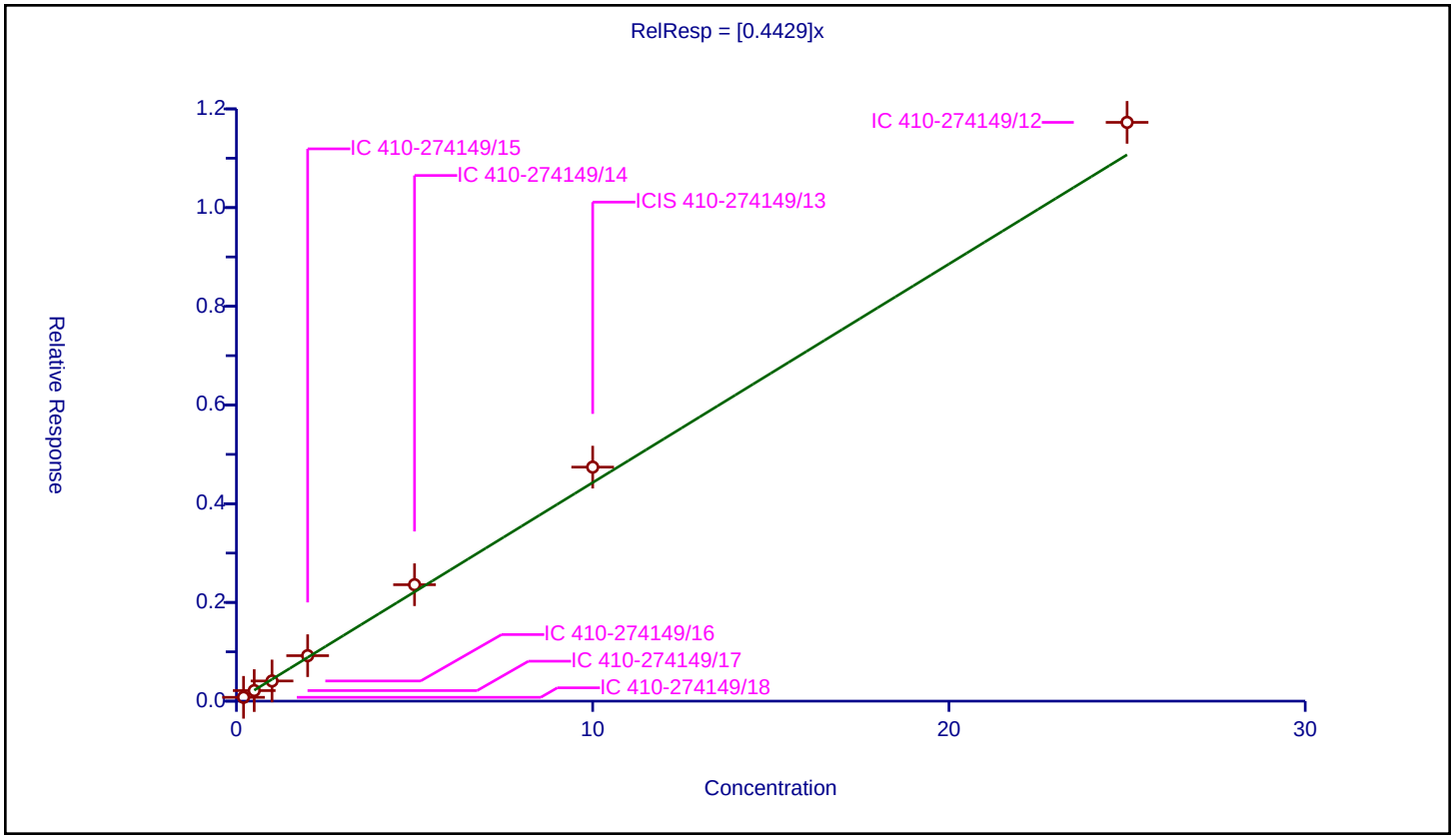
Curve Coefficients

Intercept:	0
Slope:	0.4429

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	0.077607	10.0	2085513.0	0.388034	Y
2	IC 410-274149/17	0.5	0.21371	10.0	2031490.0	0.42742	Y
3	IC 410-274149/16	1.0	0.408847	10.0	2037557.0	0.408847	Y
4	IC 410-274149/15	2.0	0.921323	10.0	2031307.0	0.460662	Y
5	IC 410-274149/14	5.0	2.358849	10.0	2106074.0	0.47177	Y
6	ICIS 410-274149/13	10.0	4.741424	10.0	2081655.0	0.474142	Y
7	IC 410-274149/12	25.0	11.727099	10.0	2132698.0	0.469084	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

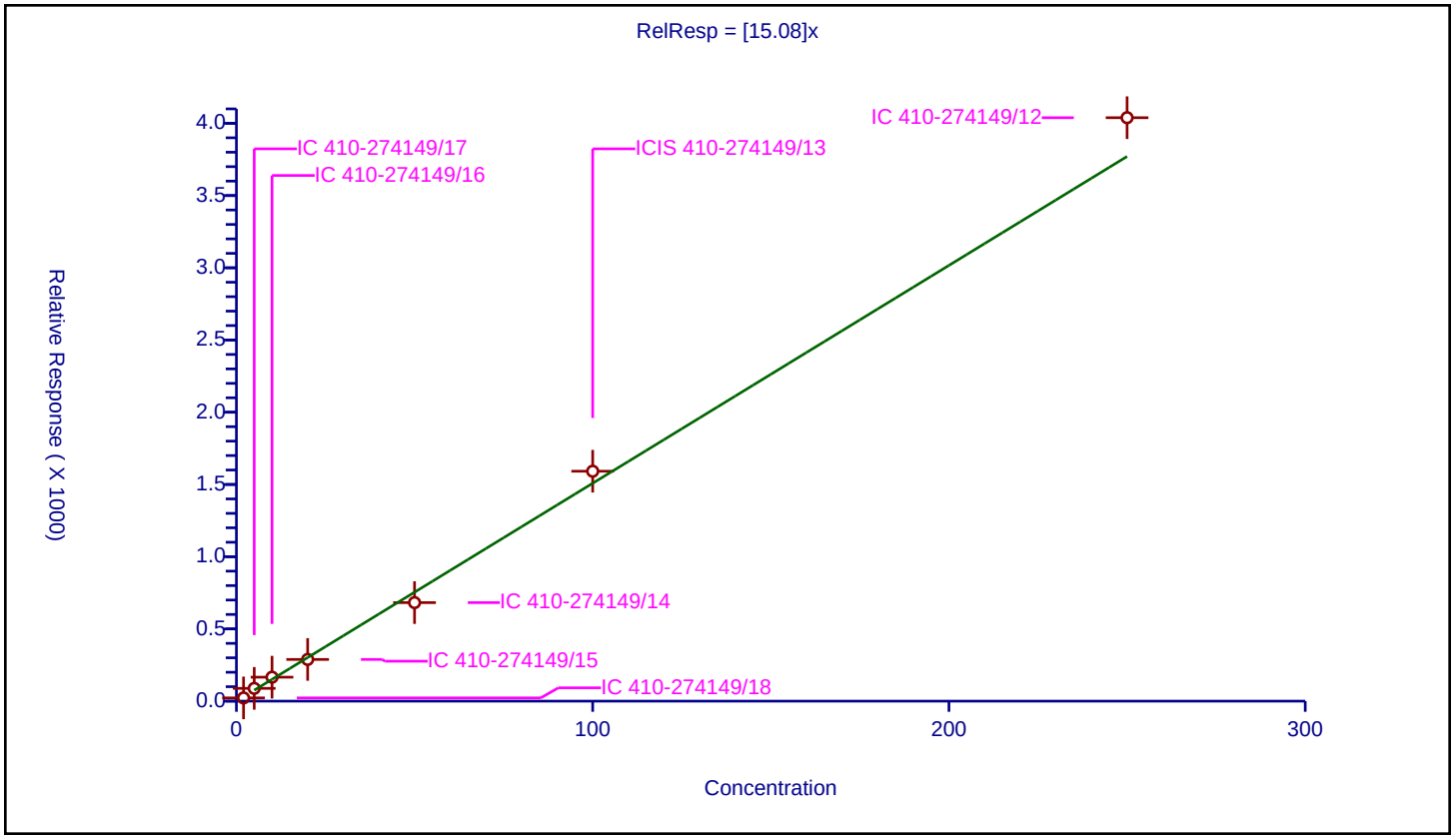
Curve Coefficients

Intercept:	0
Slope:	15.08

Error Coefficients

Standard Error:	3530000
Relative Standard Error:	14.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	2.0	22.324531	50.0	127772.0	11.162266	Y
2	IC 410-274149/17	5.0	88.438073	50.0	81790.0	17.687615	Y
3	IC 410-274149/16	10.0	165.773092	50.0	87066.0	16.577309	Y
4	IC 410-274149/15	20.0	288.685528	50.0	107663.0	14.434276	Y
5	IC 410-274149/14	50.0	682.126059	50.0	120975.0	13.642521	Y
6	ICIS 410-274149/13	100.0	1591.751998	50.0	101370.0	15.91752	Y
7	IC 410-274149/12	250.0	4038.931487	50.0	96770.0	16.155726	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

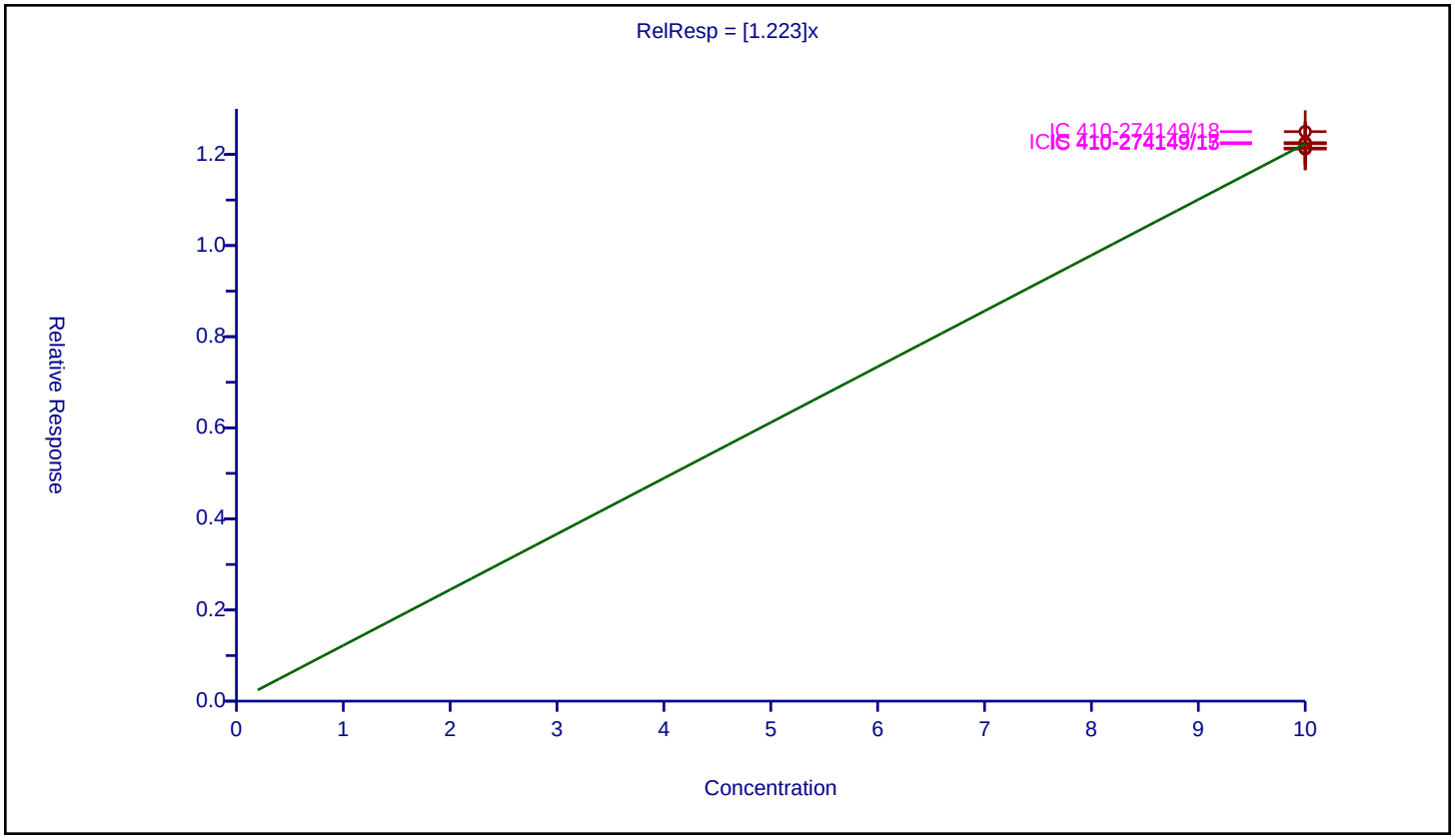
Curve Coefficients

Intercept:	0
Slope:	1.223

Error Coefficients

Standard Error:	2430000
Relative Standard Error:	1.1
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0.000000000000000222

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/12	10.0	12.137976	10.0	1927449.0	1.213798	Y
2	ICIS 410-274149/13	10.0	12.244471	10.0	1866823.0	1.224447	Y
3	IC 410-274149/14	10.0	12.119056	10.0	1880356.0	1.211906	Y
4	IC 410-274149/15	10.0	12.234589	10.0	1814146.0	1.223459	Y
5	IC 410-274149/16	10.0	12.140099	10.0	1802515.0	1.21401	Y
6	IC 410-274149/17	10.0	12.259191	10.0	1783683.0	1.225919	Y
7	IC 410-274149/18	10.0	12.500747	10.0	1804145.0	1.250075	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

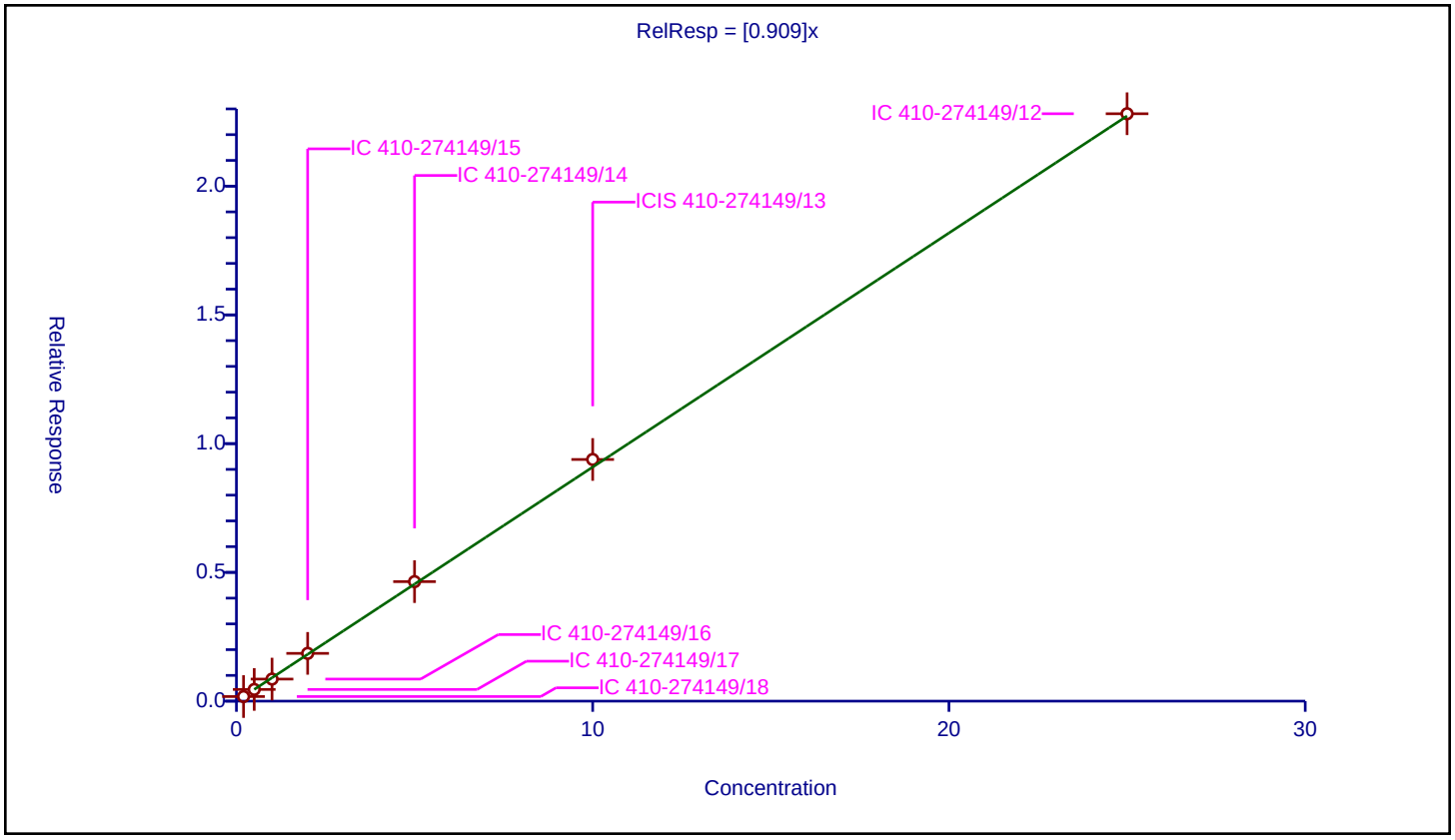
Curve Coefficients

Intercept:	0
Slope:	0.909

Error Coefficients

Standard Error:	1970000
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 410-274149/18	0.2	0.178012	10.0	1804145.0	0.890061	Y
2	IC 410-274149/17	0.5	0.454431	10.0	1783683.0	0.908861	Y
3	IC 410-274149/16	1.0	0.857175	10.0	1802515.0	0.857175	Y
4	IC 410-274149/15	2.0	1.855391	10.0	1814146.0	0.927695	Y
5	IC 410-274149/14	5.0	4.6411	10.0	1880356.0	0.92822	Y
6	ICIS 410-274149/13	10.0	9.38458	10.0	1866823.0	0.938458	Y
7	IC 410-274149/12	25.0	22.812137	10.0	1927449.0	0.912485	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

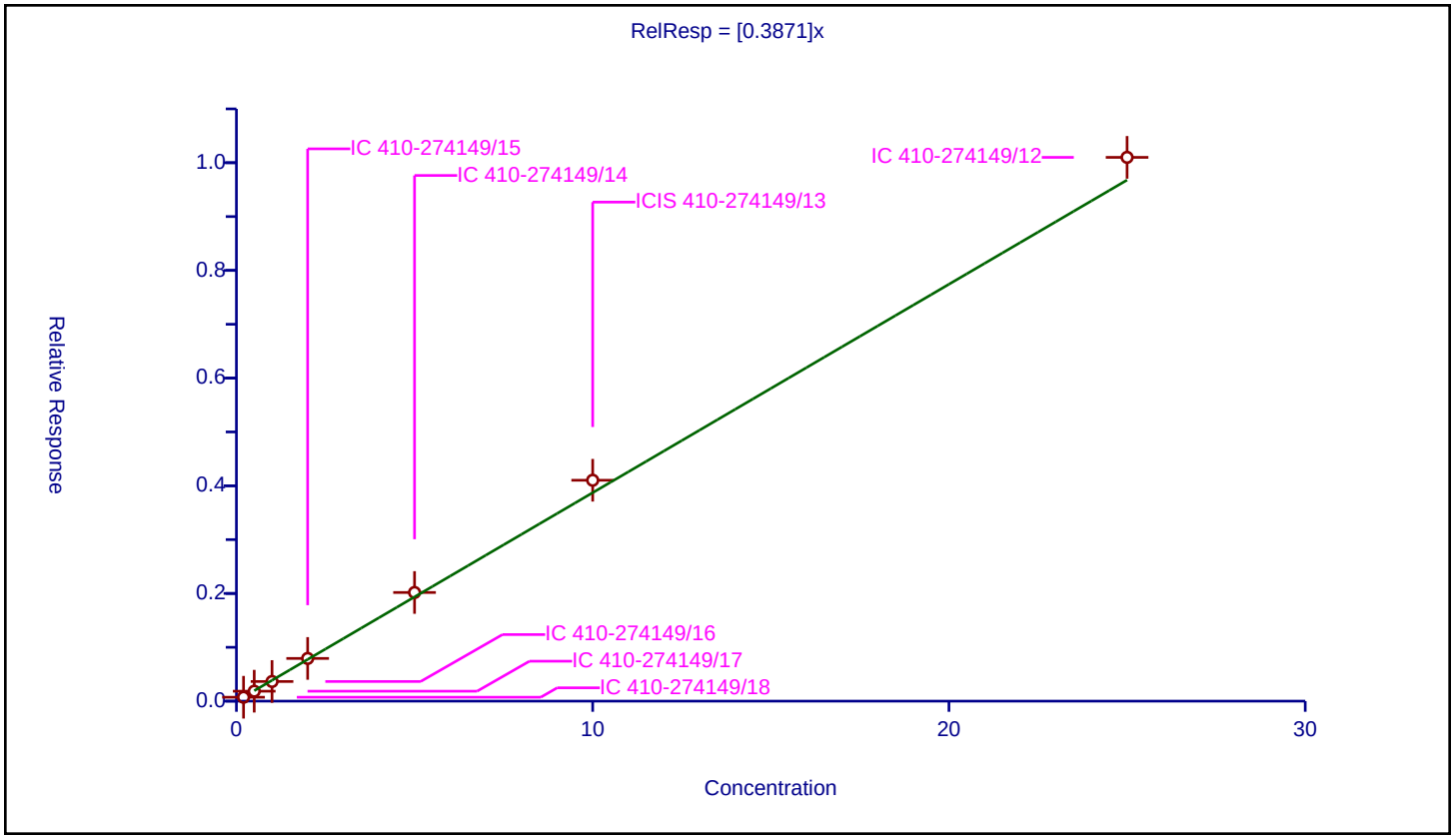
Curve Coefficients

Intercept:	0
Slope:	0.3871

Error Coefficients

Standard Error:	870000
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 410-274149/18	0.2	0.072278	10.0	1804145.0	0.36139	Y
2	IC 410-274149/17	0.5	0.184607	10.0	1783683.0	0.369214	Y
3	IC 410-274149/16	1.0	0.364901	10.0	1802515.0	0.364901	Y
4	IC 410-274149/15	2.0	0.793189	10.0	1814146.0	0.396594	Y
5	IC 410-274149/14	5.0	2.018267	10.0	1880356.0	0.403653	Y
6	ICIS 410-274149/13	10.0	4.102521	10.0	1866823.0	0.410252	Y
7	IC 410-274149/12	25.0	10.099676	10.0	1927449.0	0.403987	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

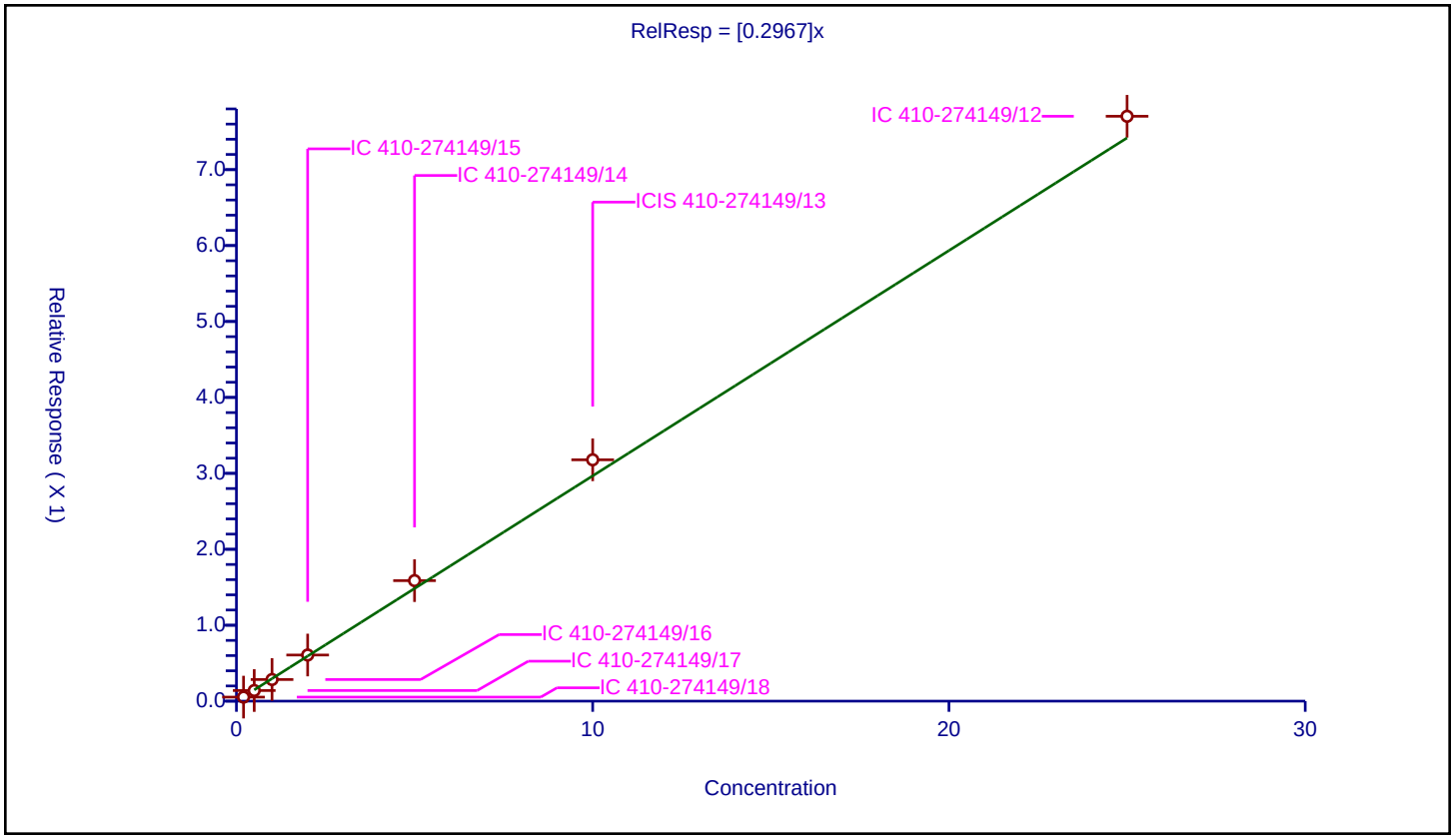
Curve Coefficients

Intercept:	0
Slope:	0.2967

Error Coefficients

Standard Error:	666000
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 410-274149/18	0.2	0.053083	10.0	1804145.0	0.265417	Y
2	IC 410-274149/17	0.5	0.139874	10.0	1783683.0	0.279747	Y
3	IC 410-274149/16	1.0	0.284719	10.0	1802515.0	0.284719	Y
4	IC 410-274149/15	2.0	0.607459	10.0	1814146.0	0.30373	Y
5	IC 410-274149/14	5.0	1.58721	10.0	1880356.0	0.317442	Y
6	ICIS 410-274149/13	10.0	3.178523	10.0	1866823.0	0.317852	Y
7	IC 410-274149/12	25.0	7.702808	10.0	1927449.0	0.308112	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

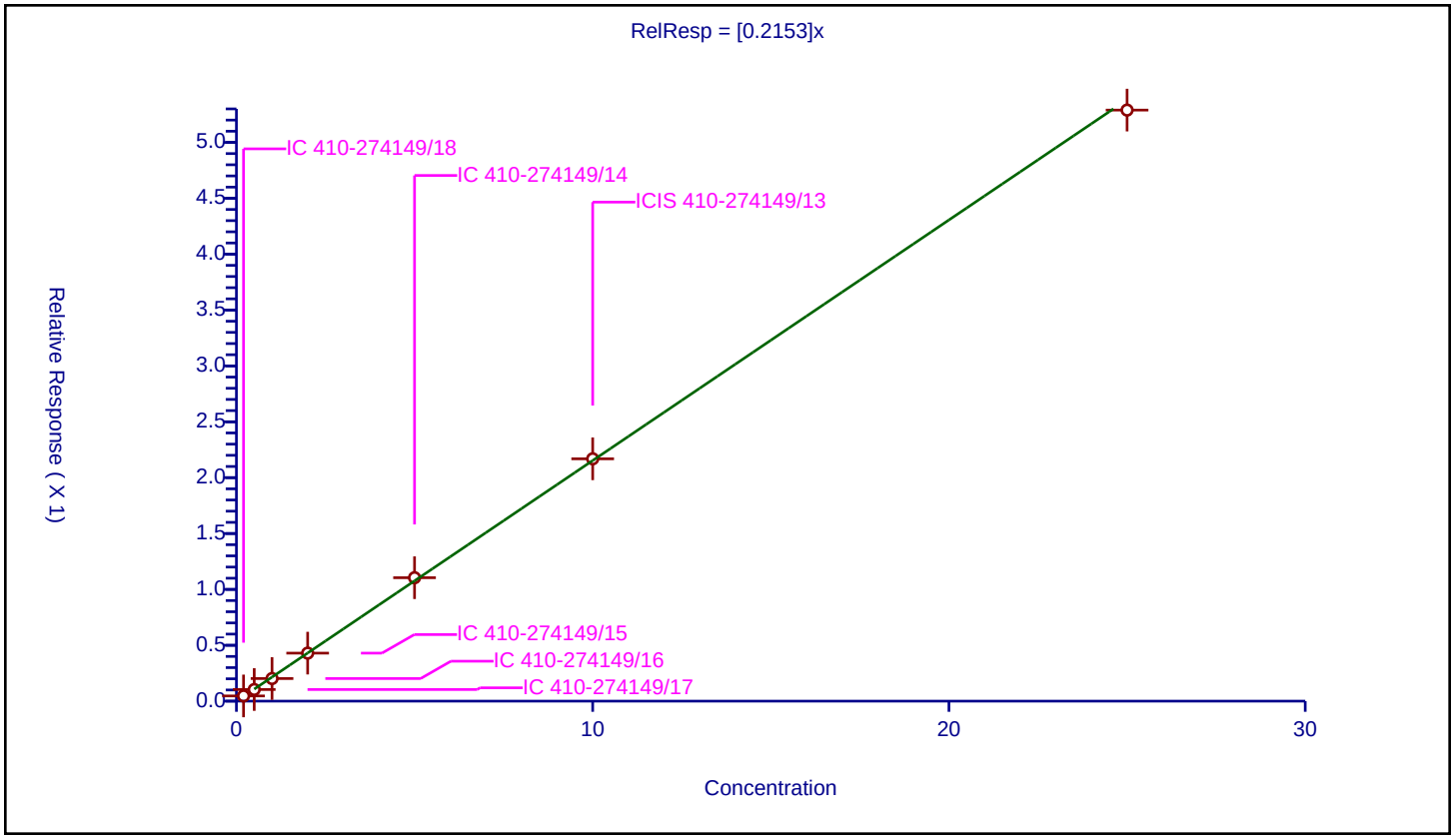
Curve Coefficients

Intercept:	0
Slope:	0.2153

Error Coefficients

Standard Error:	457000
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 410-274149/18	0.2	0.046515	10.0	1804145.0	0.232576	Y
2	IC 410-274149/17	0.5	0.104032	10.0	1783683.0	0.208064	Y
3	IC 410-274149/16	1.0	0.202284	10.0	1802515.0	0.202284	Y
4	IC 410-274149/15	2.0	0.429695	10.0	1814146.0	0.214848	Y
5	IC 410-274149/14	5.0	1.104504	10.0	1880356.0	0.220901	Y
6	ICIS 410-274149/13	10.0	2.168615	10.0	1866823.0	0.216861	Y
7	IC 410-274149/12	25.0	5.289312	10.0	1927449.0	0.211572	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

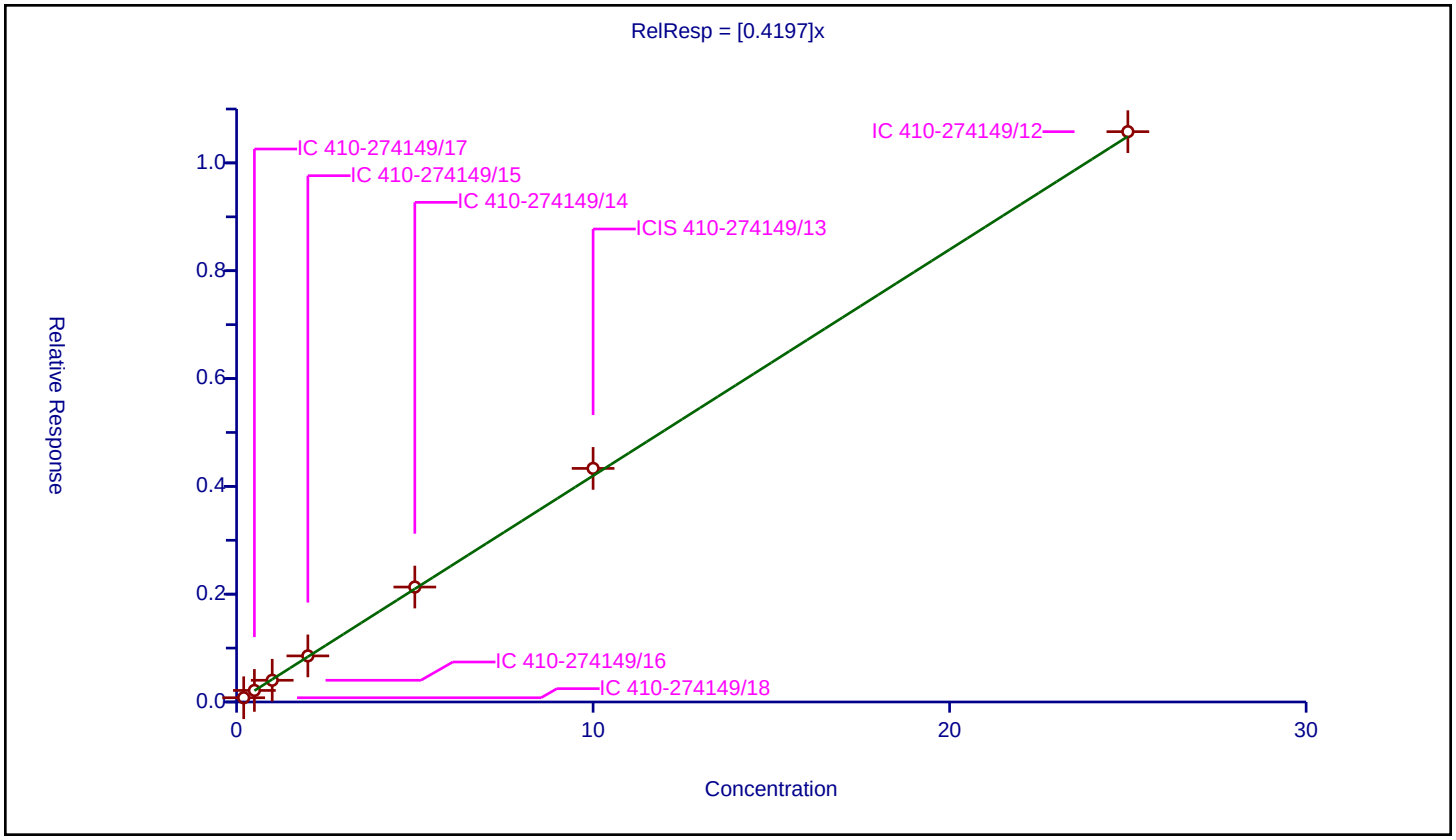
Curve Coefficients

Intercept:	0
Slope:	0.4197

Error Coefficients

Standard Error:	913000
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 410-274149/18	0.2	0.079046	10.0	1804145.0	0.395229	Y
2	IC 410-274149/17	0.5	0.214494	10.0	1783683.0	0.428989	Y
3	IC 410-274149/16	1.0	0.402948	10.0	1802515.0	0.402948	Y
4	IC 410-274149/15	2.0	0.85492	10.0	1814146.0	0.42746	Y
5	IC 410-274149/14	5.0	2.132181	10.0	1880356.0	0.426436	Y
6	ICIS 410-274149/13	10.0	4.333228	10.0	1866823.0	0.433323	Y
7	IC 410-274149/12	25.0	10.579772	10.0	1927449.0	0.423191	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

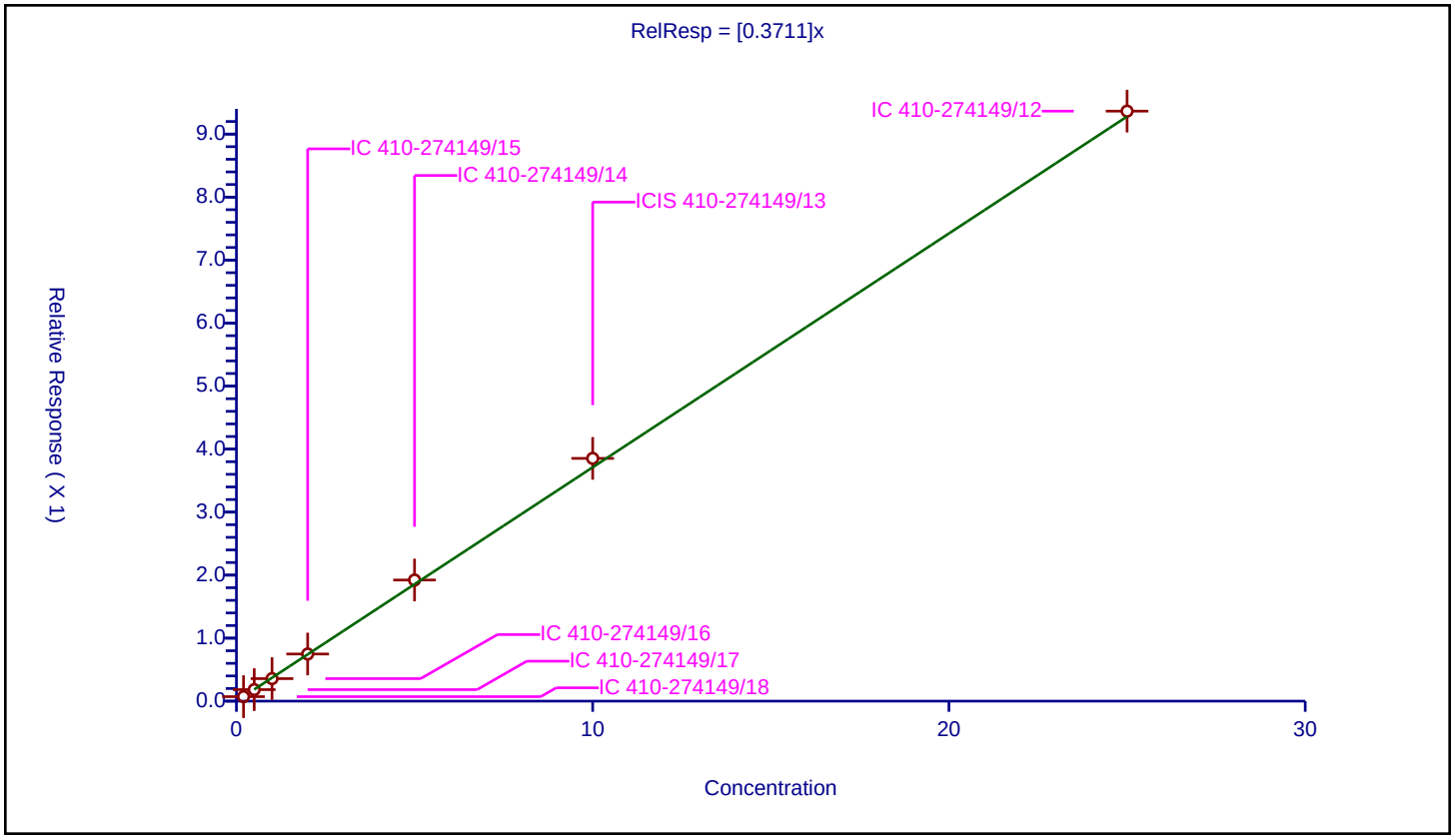
Curve Coefficients

Intercept:	0
Slope:	0.3711

Error Coefficients

Standard Error:	809000
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 410-274149/18	0.2	0.071186	10.0	1804145.0	0.35593	Y
2	IC 410-274149/17	0.5	0.183026	10.0	1783683.0	0.366052	Y
3	IC 410-274149/16	1.0	0.357584	10.0	1802515.0	0.357584	Y
4	IC 410-274149/15	2.0	0.748176	10.0	1814146.0	0.374088	Y
5	IC 410-274149/14	5.0	1.922503	10.0	1880356.0	0.384501	Y
6	ICIS 410-274149/13	10.0	3.852797	10.0	1866823.0	0.38528	Y
7	IC 410-274149/12	25.0	9.364492	10.0	1927449.0	0.37458	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

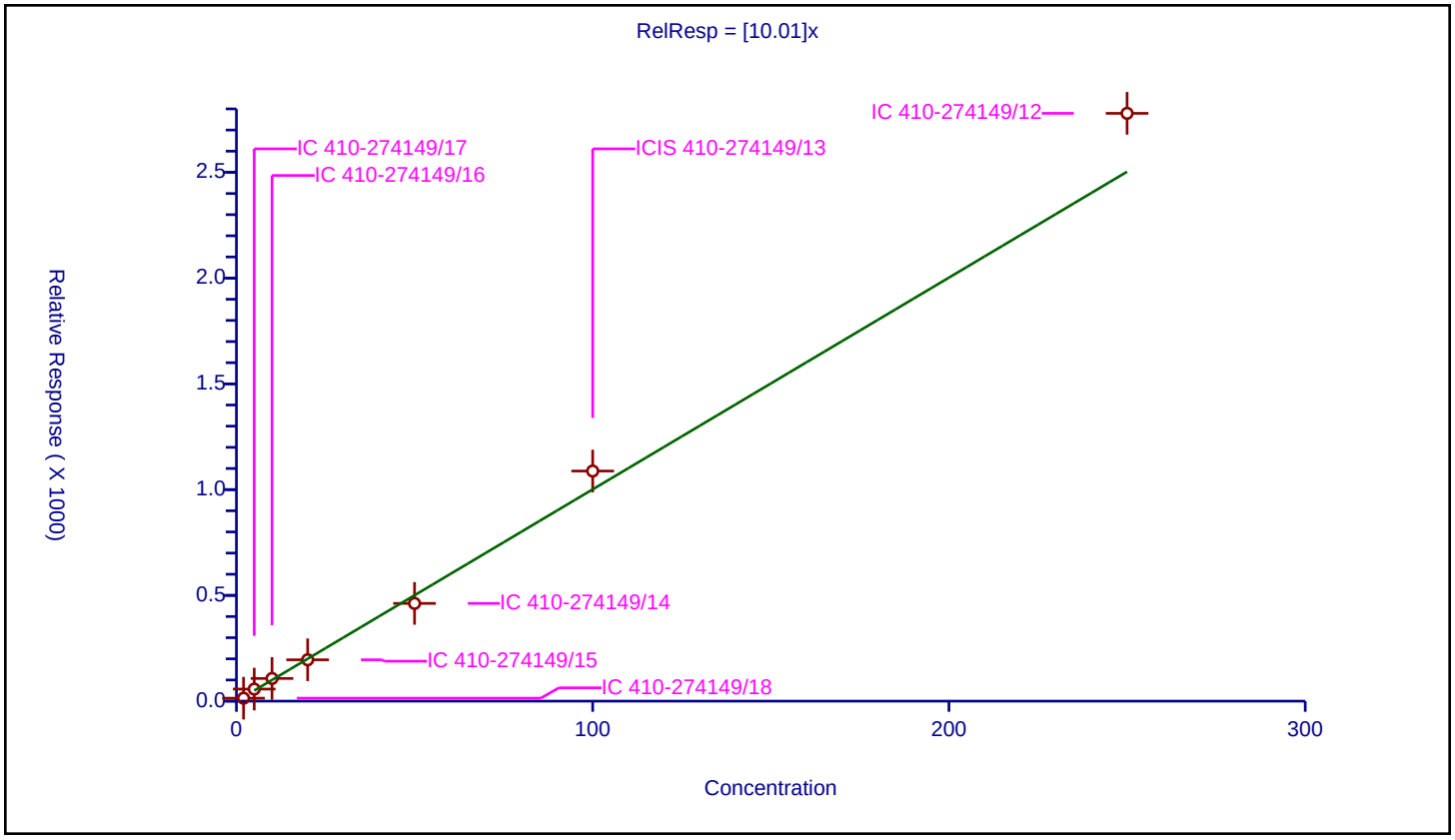
Curve Coefficients

Intercept:	0
Slope:	10.01

Error Coefficients

Standard Error:	2420000
Relative Standard Error:	15.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	2.0	13.90602	50.0	127772.0	6.95301	Y
2	IC 410-274149/17	5.0	56.977014	50.0	81790.0	11.395403	Y
3	IC 410-274149/16	10.0	107.208899	50.0	87066.0	10.72089	Y
4	IC 410-274149/15	20.0	195.500311	50.0	107663.0	9.775016	Y
5	IC 410-274149/14	50.0	462.026038	50.0	120975.0	9.240521	Y
6	ICIS 410-274149/13	100.0	1087.879057	50.0	101370.0	10.878791	Y
7	IC 410-274149/12	250.0	2778.996073	50.0	96770.0	11.115984	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

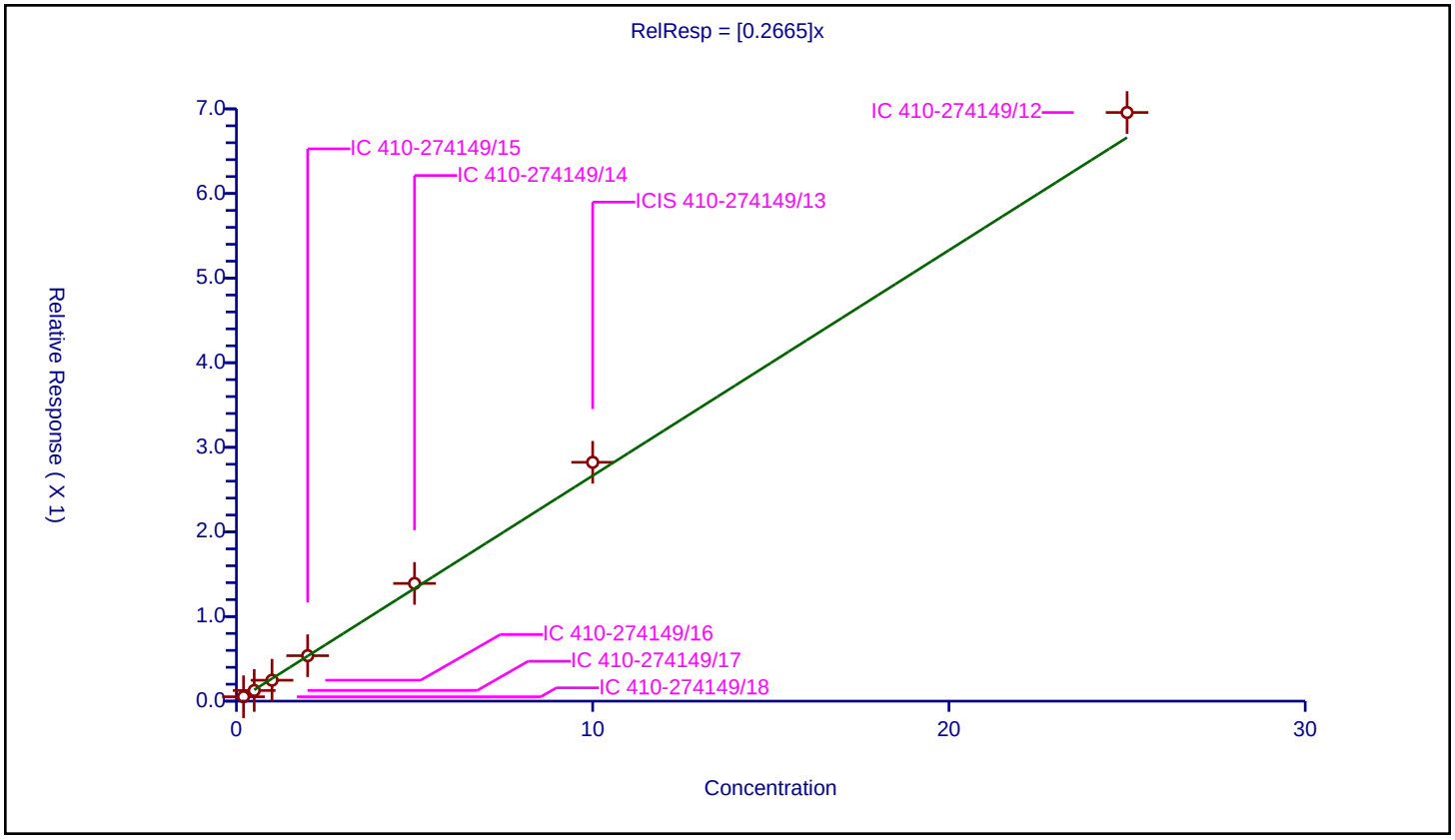
Curve Coefficients

Intercept:	0
Slope:	0.2665

Error Coefficients

Standard Error:	600000
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 410-274149/18	0.2	0.051675	10.0	1804145.0	0.258377	Y
2	IC 410-274149/17	0.5	0.126104	10.0	1783683.0	0.252208	Y
3	IC 410-274149/16	1.0	0.247377	10.0	1802515.0	0.247377	Y
4	IC 410-274149/15	2.0	0.537112	10.0	1814146.0	0.268556	Y
5	IC 410-274149/14	5.0	1.391338	10.0	1880356.0	0.278268	Y
6	ICIS 410-274149/13	10.0	2.822881	10.0	1866823.0	0.282288	Y
7	IC 410-274149/12	25.0	6.957543	10.0	1927449.0	0.278302	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

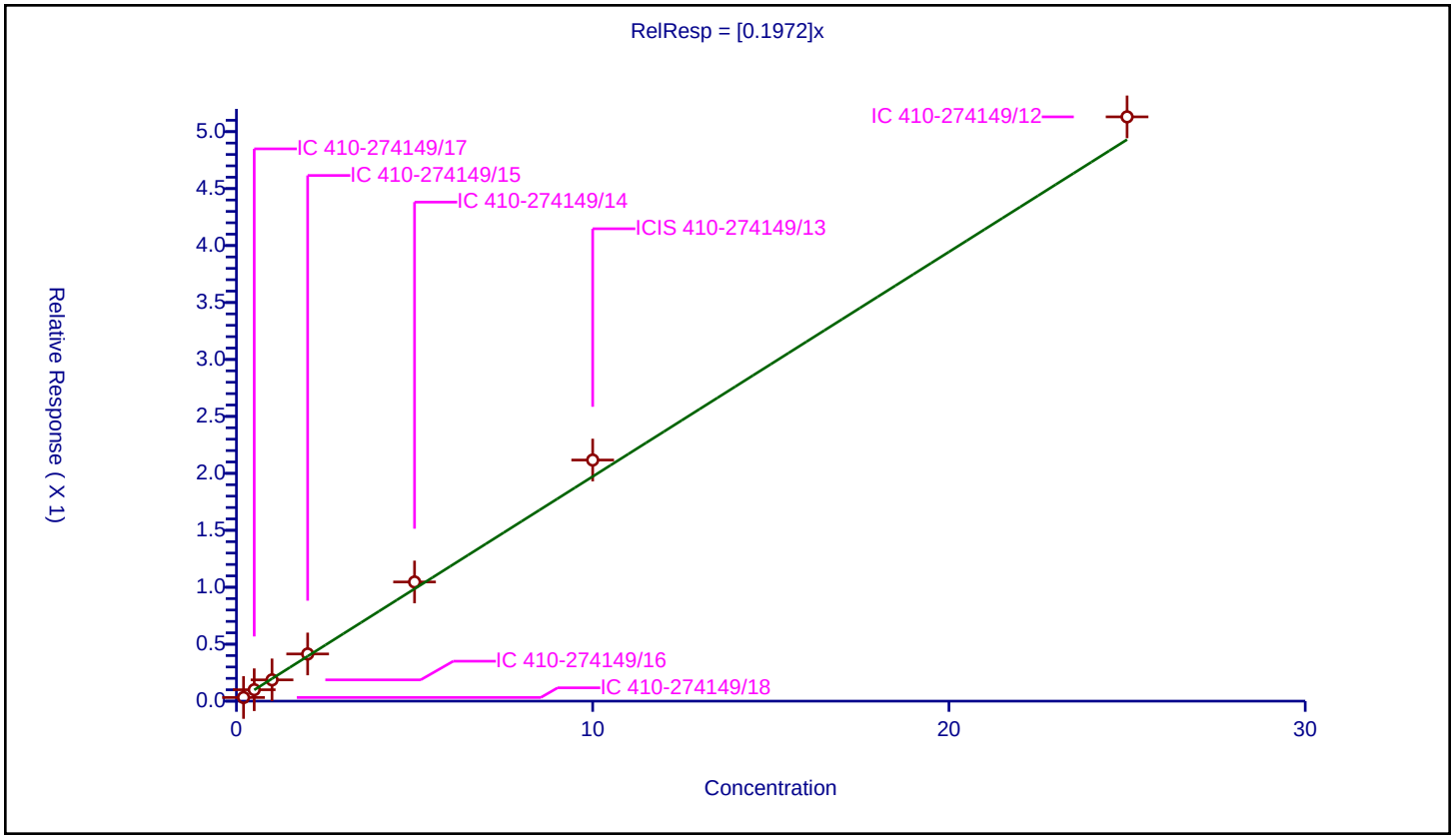
Curve Coefficients

Intercept:	0
Slope:	0.1972

Error Coefficients

Standard Error:	443000
Relative Standard Error:	9.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	0.032015	10.0	1804145.0	0.160076	Y
2	IC 410-274149/17	0.5	0.100287	10.0	1783683.0	0.200574	Y
3	IC 410-274149/16	1.0	0.186684	10.0	1802515.0	0.186684	Y
4	IC 410-274149/15	2.0	0.414195	10.0	1814146.0	0.207097	Y
5	IC 410-274149/14	5.0	1.04635	10.0	1880356.0	0.20927	Y
6	ICIS 410-274149/13	10.0	2.116933	10.0	1866823.0	0.211693	Y
7	IC 410-274149/12	25.0	5.130112	10.0	1927449.0	0.205204	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

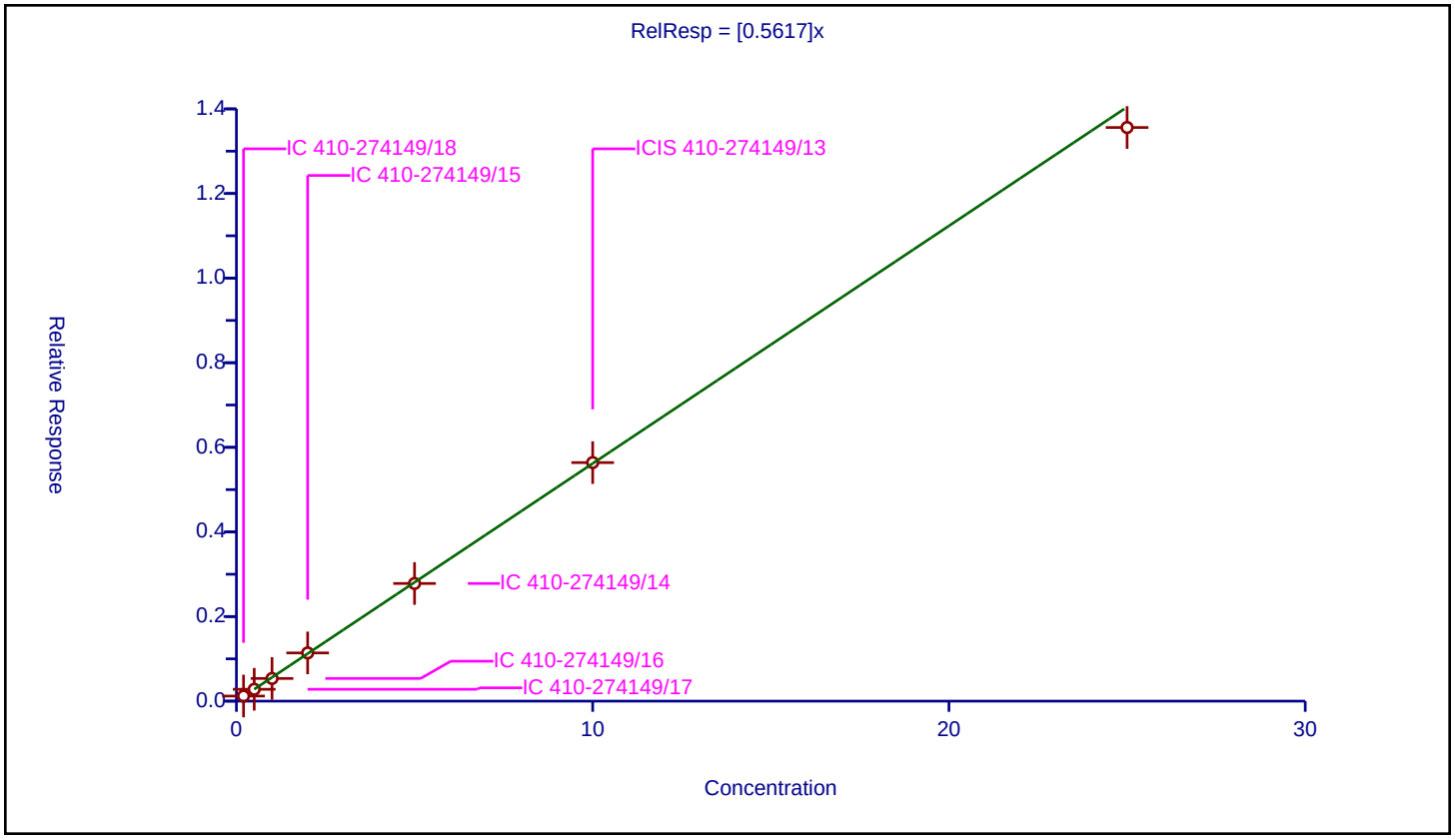
Curve Coefficients

Intercept:	0
Slope:	0.5617

Error Coefficients

Standard Error:	1170000
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 410-274149/18	0.2	0.12045	10.0	1804145.0	0.602252	Y
2	IC 410-274149/17	0.5	0.280672	10.0	1783683.0	0.561344	Y
3	IC 410-274149/16	1.0	0.536073	10.0	1802515.0	0.536073	Y
4	IC 410-274149/15	2.0	1.140013	10.0	1814146.0	0.570006	Y
5	IC 410-274149/14	5.0	2.781308	10.0	1880356.0	0.556262	Y
6	ICIS 410-274149/13	10.0	5.639003	10.0	1866823.0	0.5639	Y
7	IC 410-274149/12	25.0	13.559669	10.0	1927449.0	0.542387	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

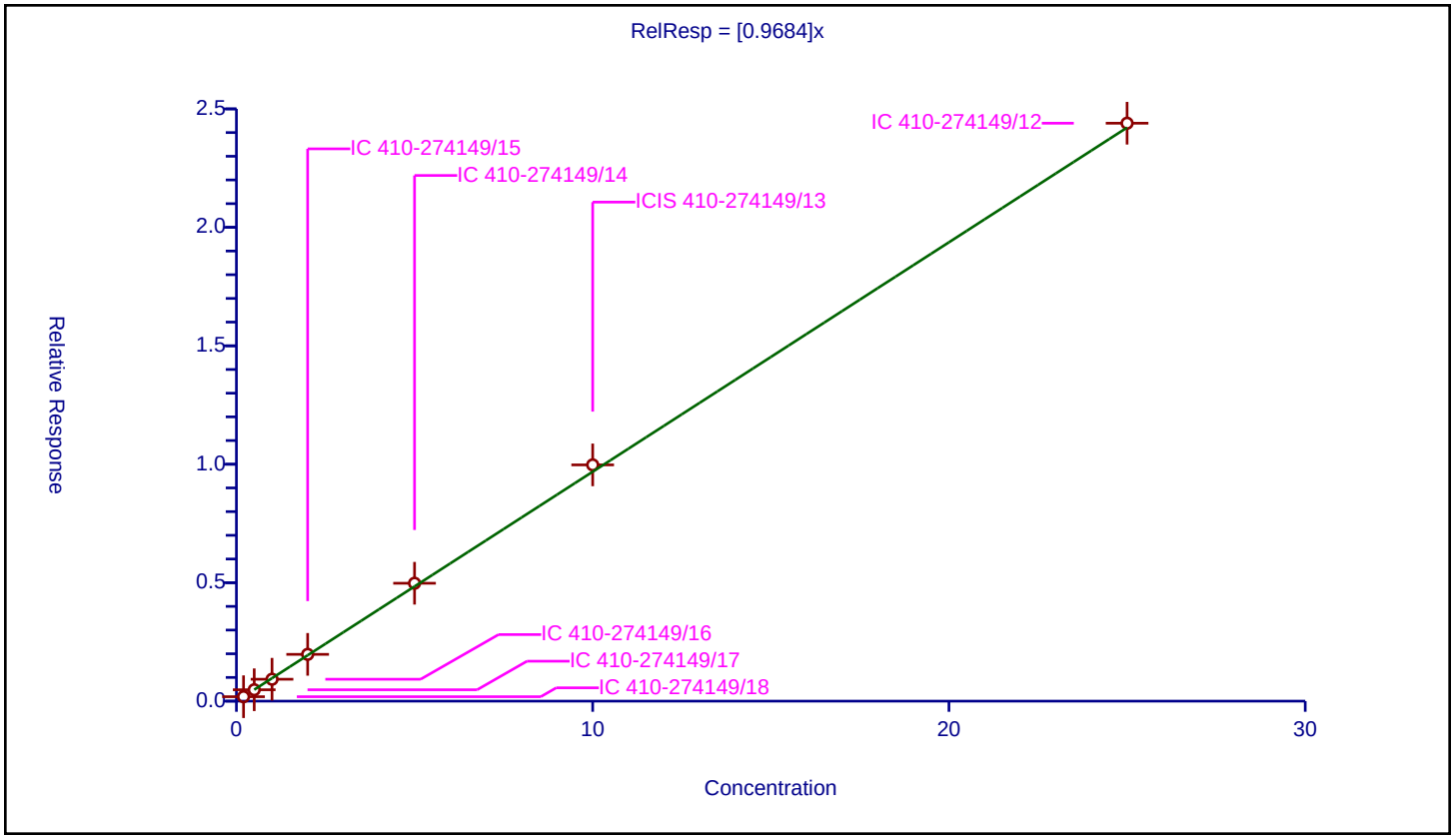
Curve Coefficients

Intercept:	0
Slope:	0.9684

Error Coefficients

Standard Error:	2110000
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 410-274149/18	0.2	0.187707	10.0	1804145.0	0.938533	Y
2	IC 410-274149/17	0.5	0.480141	10.0	1783683.0	0.960283	Y
3	IC 410-274149/16	1.0	0.924253	10.0	1802515.0	0.924253	Y
4	IC 410-274149/15	2.0	1.975271	10.0	1814146.0	0.987636	Y
5	IC 410-274149/14	5.0	4.976786	10.0	1880356.0	0.995357	Y
6	ICIS 410-274149/13	10.0	9.972713	10.0	1866823.0	0.997271	Y
7	IC 410-274149/12	25.0	24.394622	10.0	1927449.0	0.975785	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

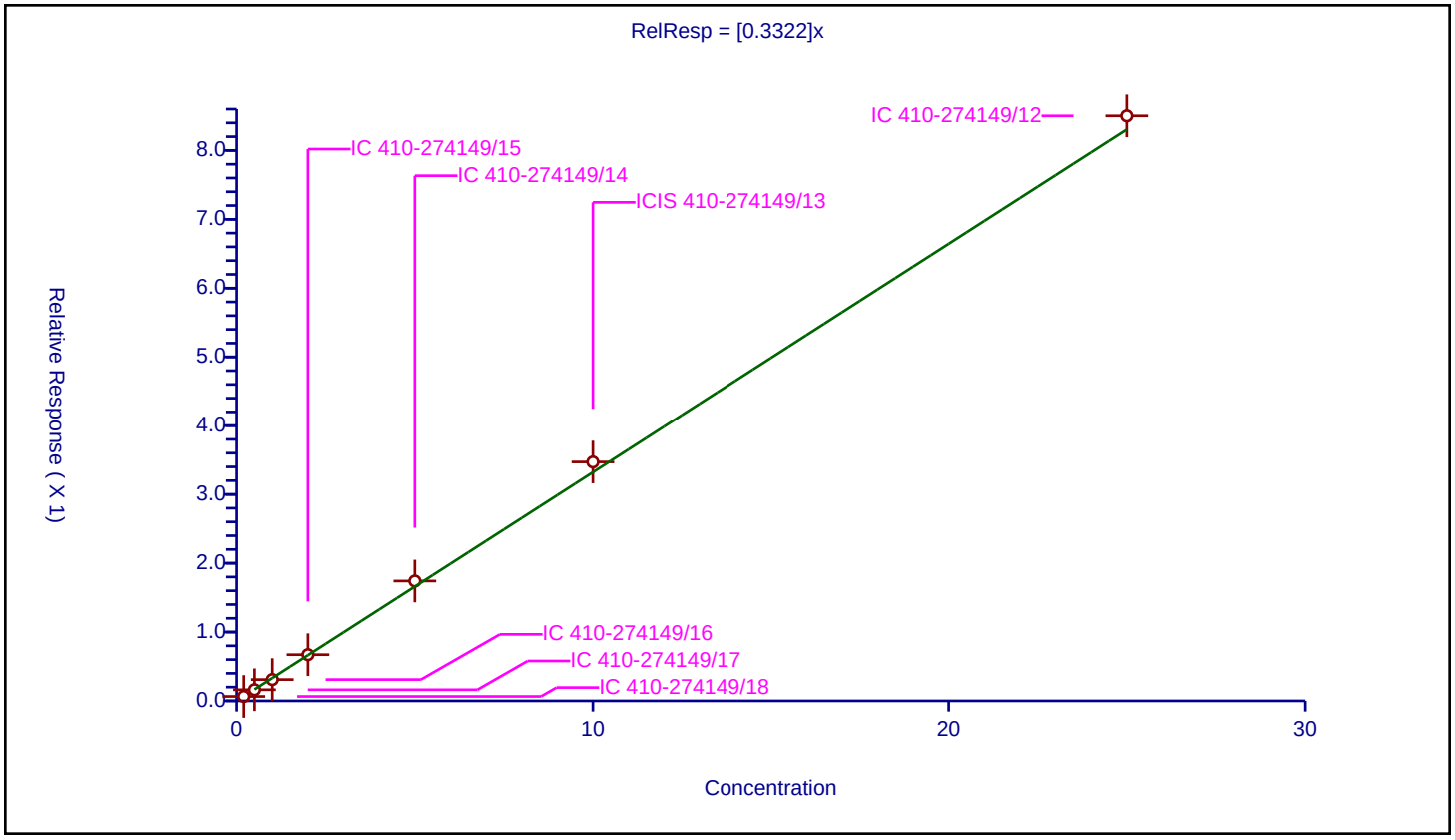
Curve Coefficients

Intercept:	0
Slope:	0.3322

Error Coefficients

Standard Error:	734000
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 410-274149/18	0.2	0.064213	10.0	1804145.0	0.321066	Y
2	IC 410-274149/17	0.5	0.161722	10.0	1783683.0	0.323443	Y
3	IC 410-274149/16	1.0	0.309656	10.0	1802515.0	0.309656	Y
4	IC 410-274149/15	2.0	0.671346	10.0	1814146.0	0.335673	Y
5	IC 410-274149/14	5.0	1.741574	10.0	1880356.0	0.348315	Y
6	ICIS 410-274149/13	10.0	3.471507	10.0	1866823.0	0.347151	Y
7	IC 410-274149/12	25.0	8.502238	10.0	1927449.0	0.34009	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

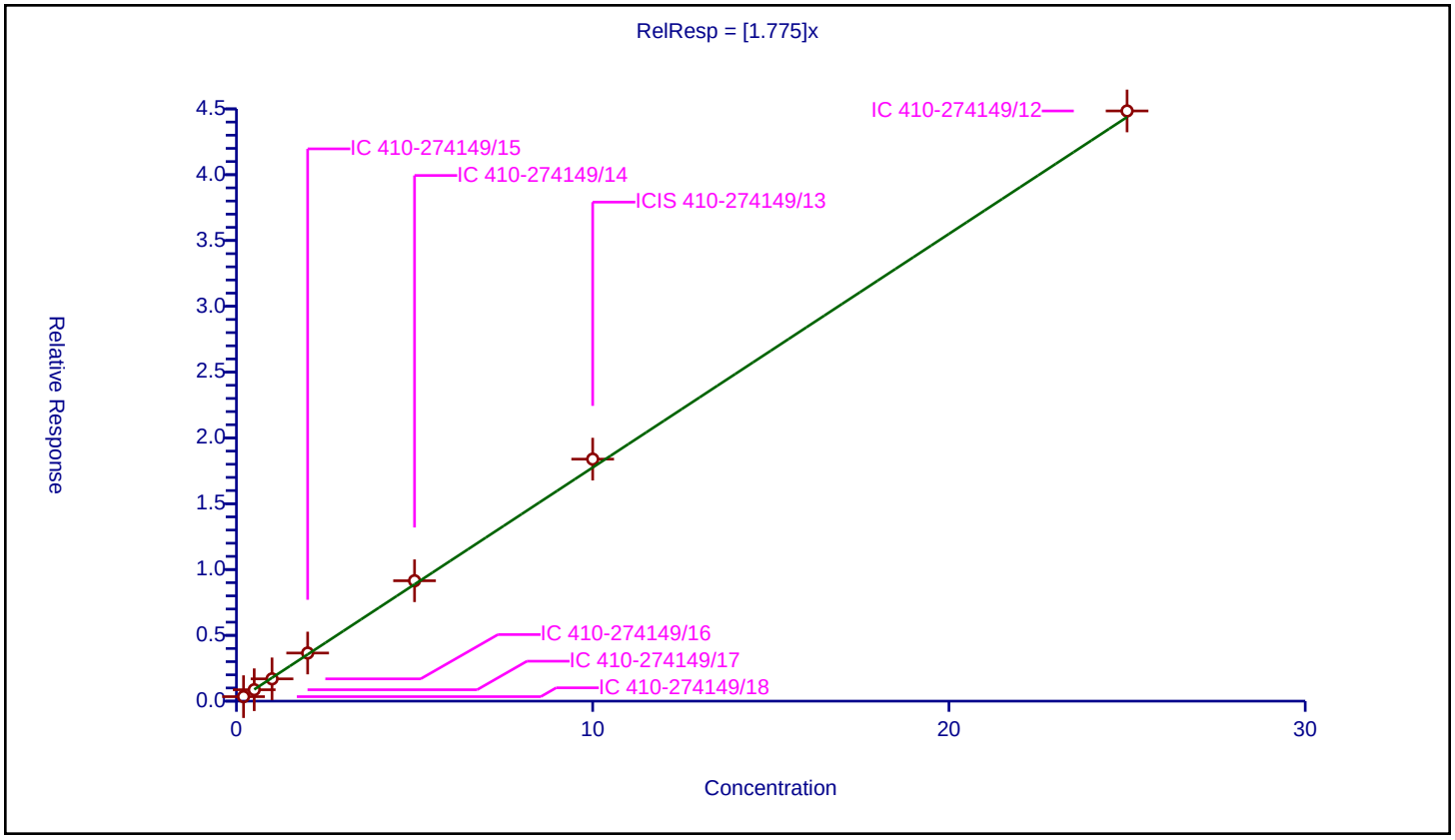
Curve Coefficients

Intercept:	0
Slope:	1.775

Error Coefficients

Standard Error:	3870000
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 410-274149/18	0.2	0.341669	10.0	1804145.0	1.708344	Y
2	IC 410-274149/17	0.5	0.867946	10.0	1783683.0	1.735891	Y
3	IC 410-274149/16	1.0	1.692269	10.0	1802515.0	1.692269	Y
4	IC 410-274149/15	2.0	3.65518	10.0	1814146.0	1.82759	Y
5	IC 410-274149/14	5.0	9.147715	10.0	1880356.0	1.829543	Y
6	ICIS 410-274149/13	10.0	18.388042	10.0	1866823.0	1.838804	Y
7	IC 410-274149/12	25.0	44.843749	10.0	1927449.0	1.79375	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

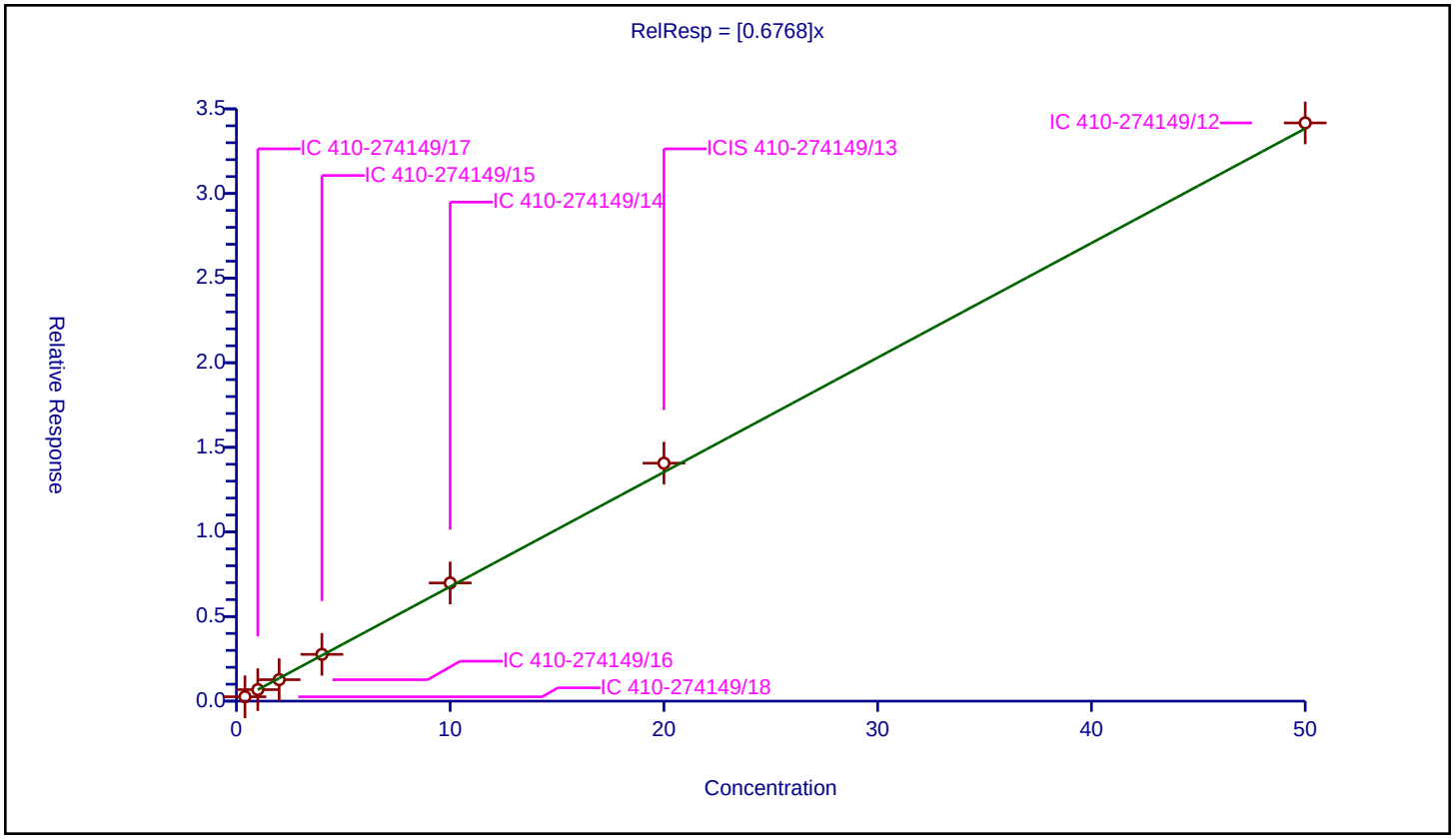
Curve Coefficients

Intercept:	0
Slope:	0.6768

Error Coefficients

Standard Error:	2950000
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 410-274149/18	0.4	0.258876	10.0	1804145.0	0.64719	Y
2	IC 410-274149/17	1.0	0.680048	10.0	1783683.0	0.680048	Y
3	IC 410-274149/16	2.0	1.26805	10.0	1802515.0	0.634025	Y
4	IC 410-274149/15	4.0	2.7647	10.0	1814146.0	0.691175	Y
5	IC 410-274149/14	10.0	6.984114	10.0	1880356.0	0.698411	Y
6	ICIS 410-274149/13	20.0	14.06271	10.0	1866823.0	0.703135	Y
7	IC 410-274149/12	50.0	34.170331	10.0	1927449.0	0.683407	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

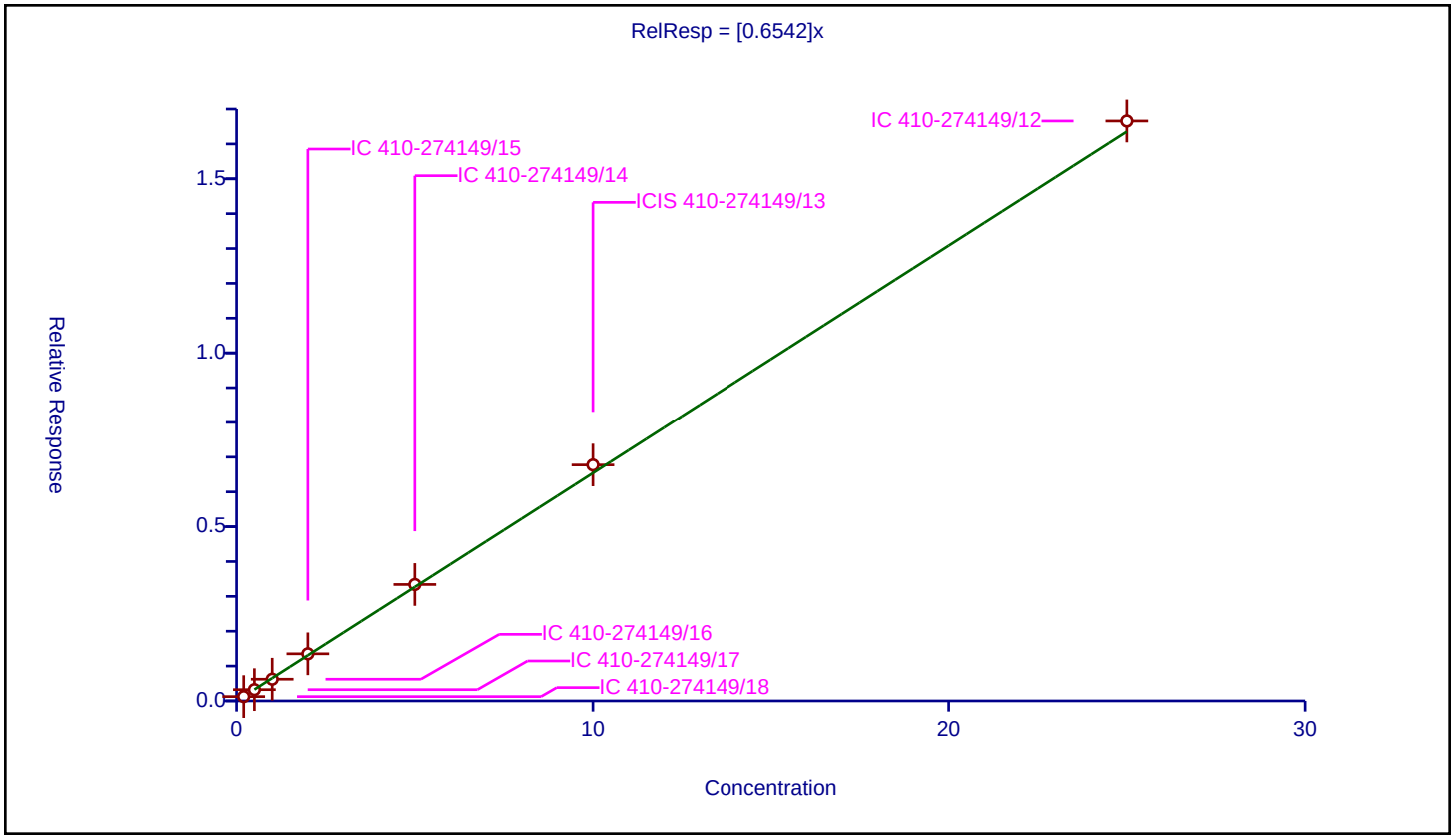
Curve Coefficients

Intercept:	0
Slope:	0.6542

Error Coefficients

Standard Error:	1440000
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 410-274149/18	0.2	0.124037	10.0	1804145.0	0.620183	Y
2	IC 410-274149/17	0.5	0.323684	10.0	1783683.0	0.647368	Y
3	IC 410-274149/16	1.0	0.623762	10.0	1802515.0	0.623762	Y
4	IC 410-274149/15	2.0	1.351694	10.0	1814146.0	0.675847	Y
5	IC 410-274149/14	5.0	3.34217	10.0	1880356.0	0.668434	Y
6	ICIS 410-274149/13	10.0	6.775666	10.0	1866823.0	0.677567	Y
7	IC 410-274149/12	25.0	16.658345	10.0	1927449.0	0.666334	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

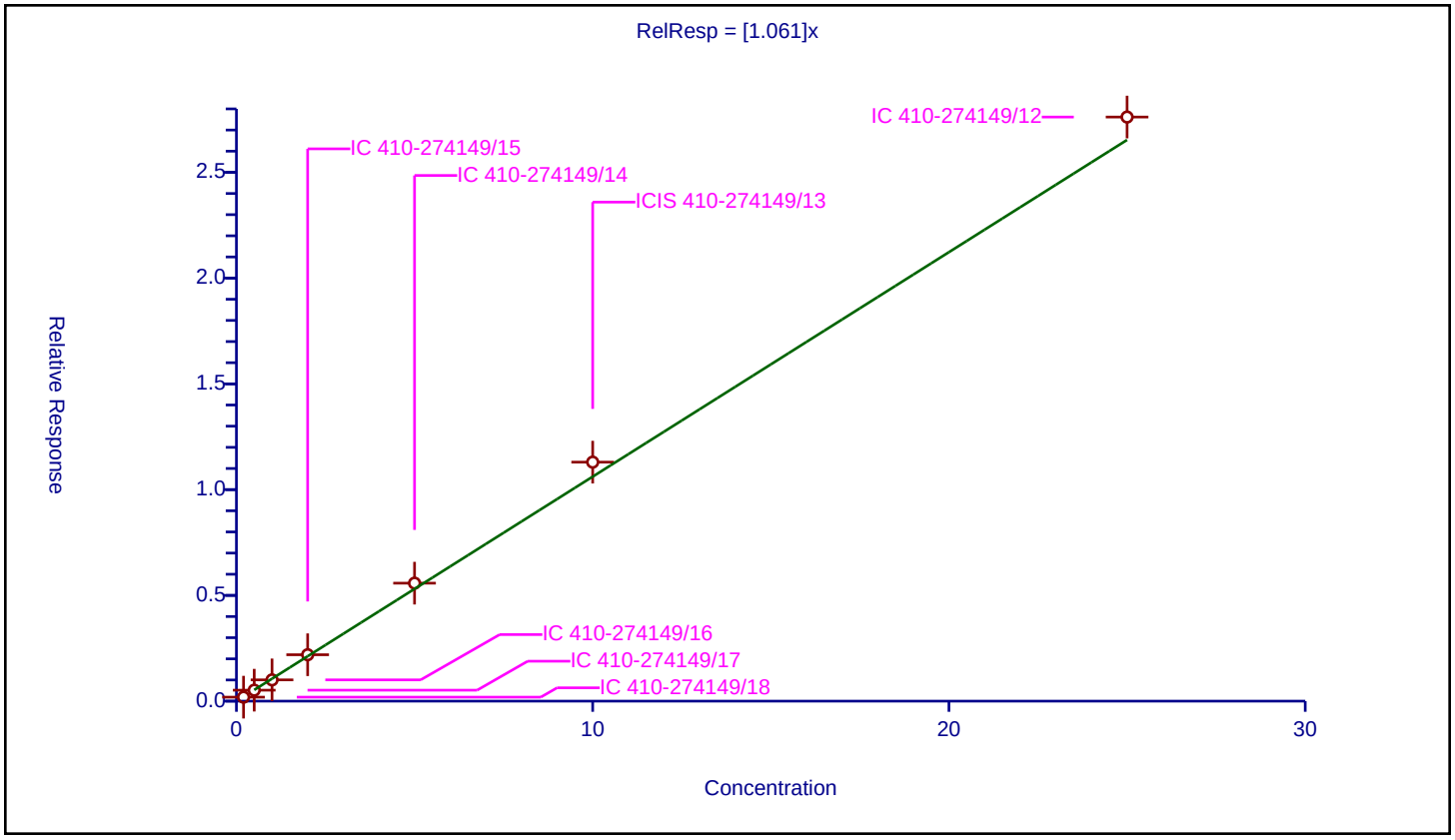
Curve Coefficients

Intercept:	0
Slope:	1.061

Error Coefficients

Standard Error:	2380000
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 410-274149/18	0.2	0.188156	10.0	1804145.0	0.940778	Y
2	IC 410-274149/17	0.5	0.51831	10.0	1783683.0	1.036619	Y
3	IC 410-274149/16	1.0	1.005085	10.0	1802515.0	1.005085	Y
4	IC 410-274149/15	2.0	2.193875	10.0	1814146.0	1.096938	Y
5	IC 410-274149/14	5.0	5.577673	10.0	1880356.0	1.115535	Y
6	ICIS 410-274149/13	10.0	11.298779	10.0	1866823.0	1.129878	Y
7	IC 410-274149/12	25.0	27.614484	10.0	1927449.0	1.104579	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

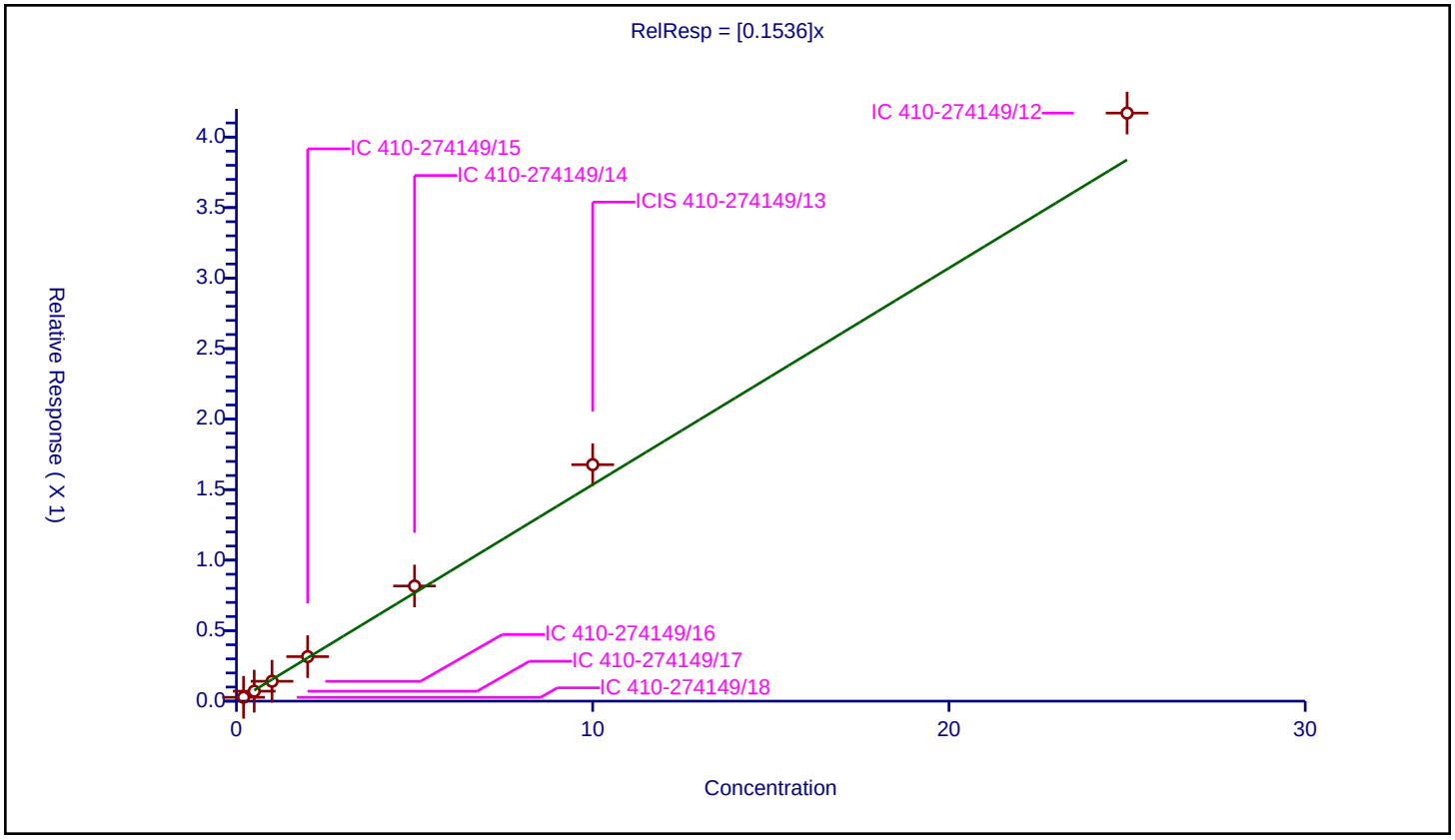
Curve Coefficients

Intercept:	0
Slope:	0.1536

Error Coefficients

Standard Error:	359000
Relative Standard Error:	8.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	0.027332	10.0	1804145.0	0.136658	Y
2	IC 410-274149/17	0.5	0.070769	10.0	1783683.0	0.141539	Y
3	IC 410-274149/16	1.0	0.141058	10.0	1802515.0	0.141058	Y
4	IC 410-274149/15	2.0	0.315691	10.0	1814146.0	0.157846	Y
5	IC 410-274149/14	5.0	0.816643	10.0	1880356.0	0.163329	Y
6	ICIS 410-274149/13	10.0	1.676993	10.0	1866823.0	0.167699	Y
7	IC 410-274149/12	25.0	4.170414	10.0	1927449.0	0.166817	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

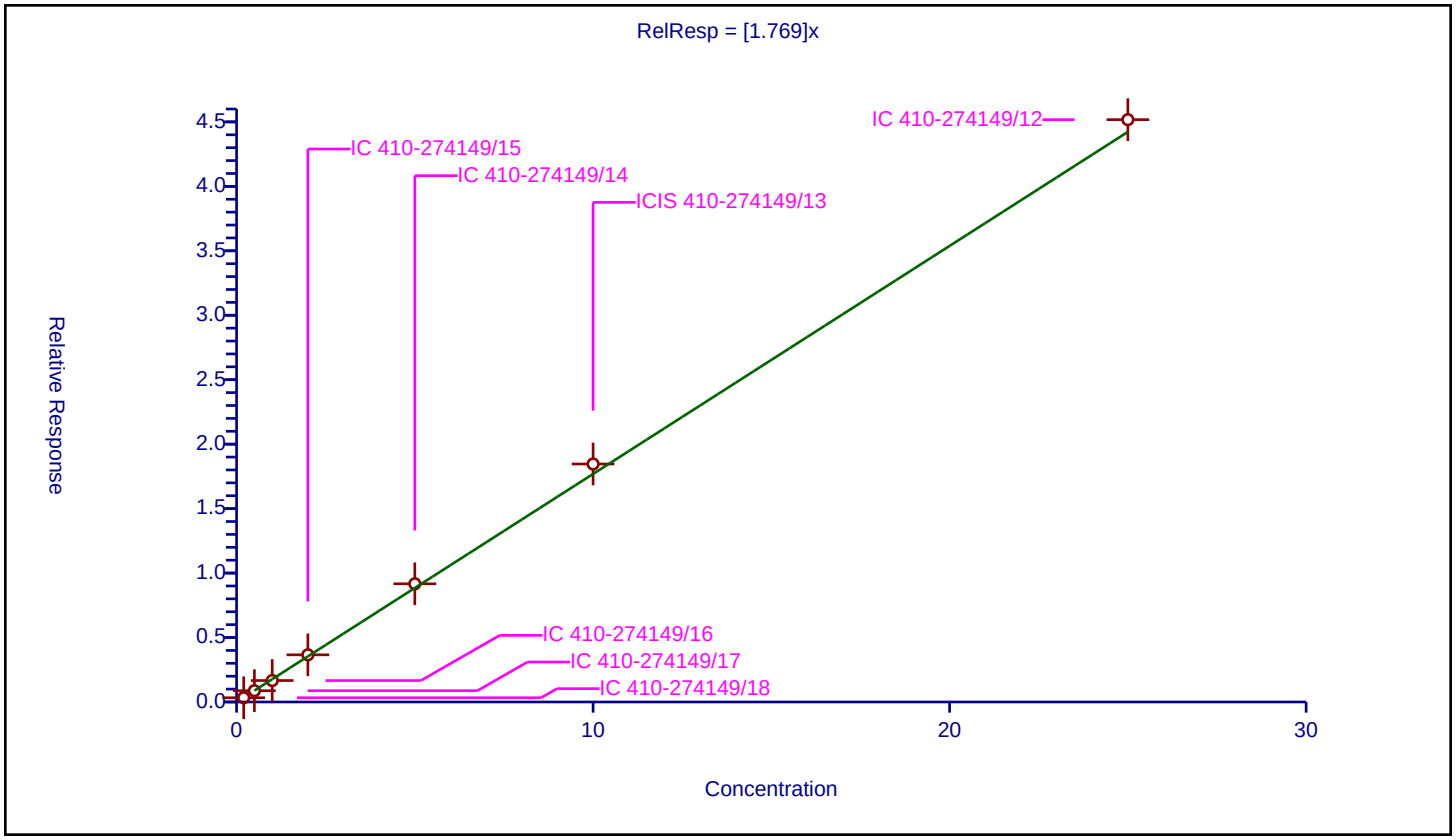
Curve Coefficients

Intercept:	0
Slope:	1.769

Error Coefficients

Standard Error:	3900000
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 410-274149/18	0.2	0.330234	10.0	1804145.0	1.65117	Y
2	IC 410-274149/17	0.5	0.876019	10.0	1783683.0	1.752038	Y
3	IC 410-274149/16	1.0	1.663659	10.0	1802515.0	1.663659	Y
4	IC 410-274149/15	2.0	3.65809	10.0	1814146.0	1.829045	Y
5	IC 410-274149/14	5.0	9.169407	10.0	1880356.0	1.833881	Y
6	ICIS 410-274149/13	10.0	18.46189	10.0	1866823.0	1.846189	Y
7	IC 410-274149/12	25.0	45.173839	10.0	1927449.0	1.806954	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

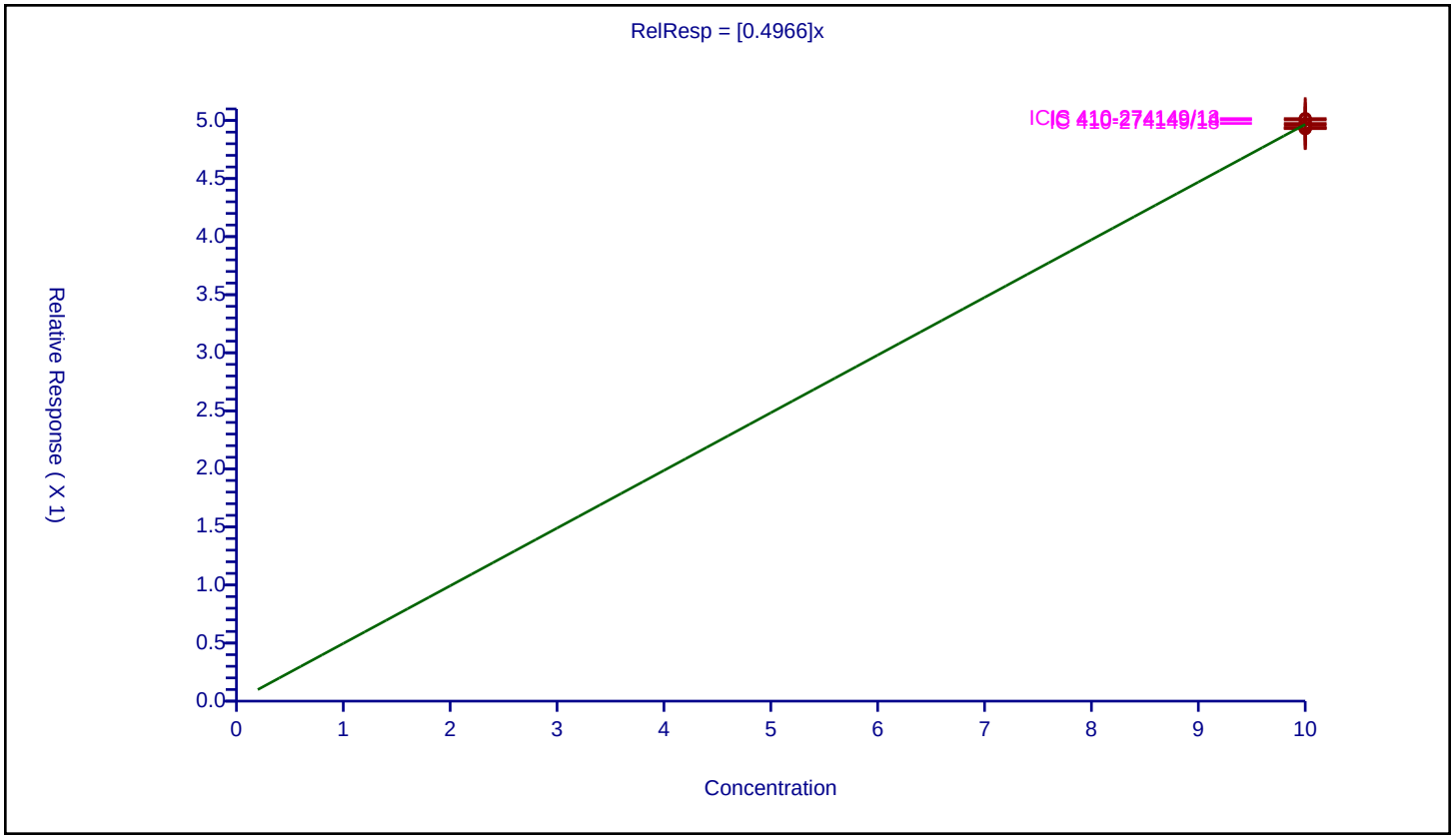
Curve Coefficients

Intercept:	0
Slope:	0.4966

Error Coefficients

Standard Error:	988000
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 410-274149/12	10.0	4.963332	10.0	1927449.0	0.496333	Y
2	ICIS 410-274149/13	10.0	5.016533	10.0	1866823.0	0.501653	Y
3	IC 410-274149/14	10.0	5.004994	10.0	1880356.0	0.500499	Y
4	IC 410-274149/15	10.0	4.941493	10.0	1814146.0	0.494149	Y
5	IC 410-274149/16	10.0	4.929745	10.0	1802515.0	0.492975	Y
6	IC 410-274149/17	10.0	4.934021	10.0	1783683.0	0.493402	Y
7	IC 410-274149/18	10.0	4.97485	10.0	1804145.0	0.497485	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

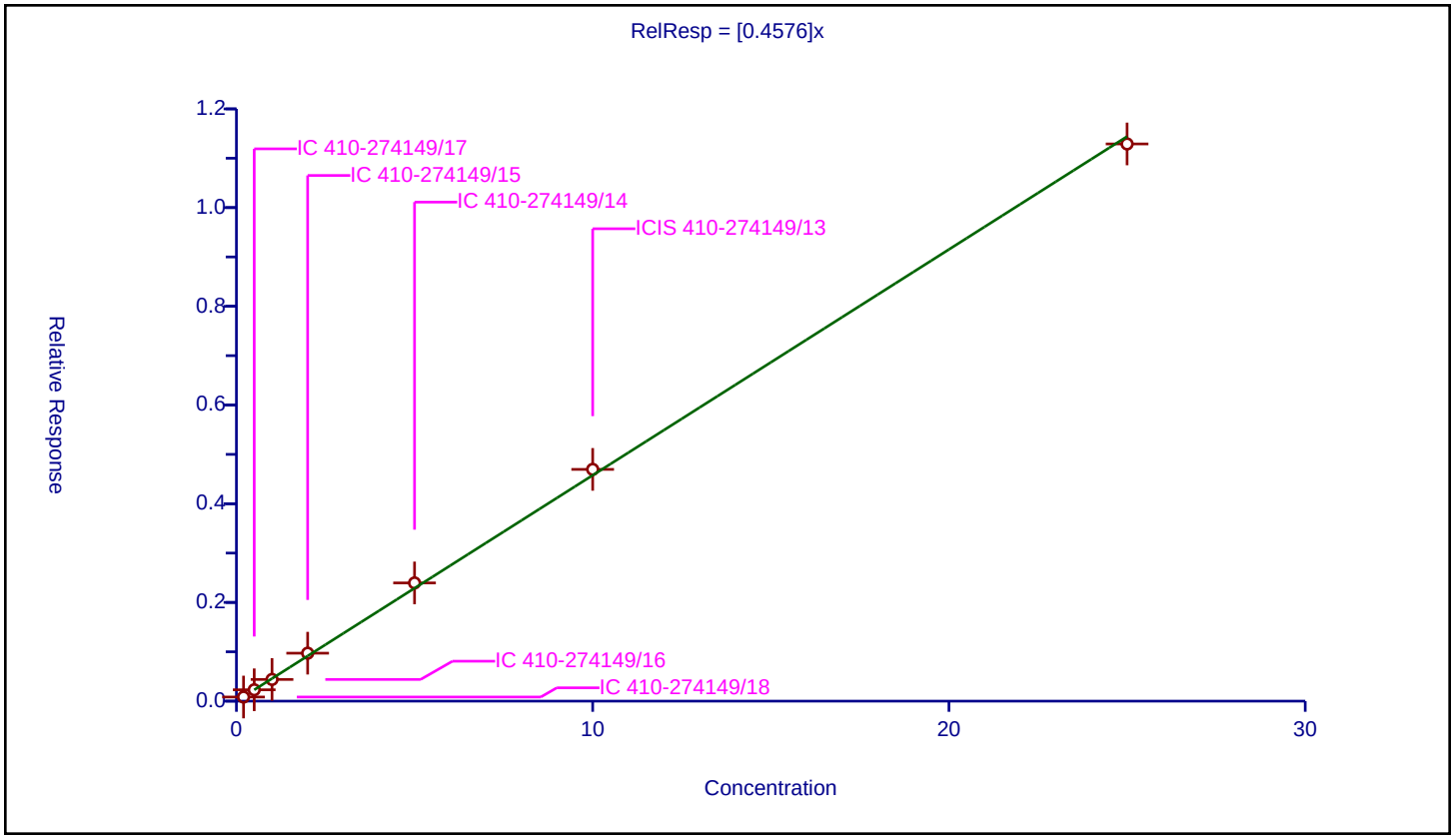
Curve Coefficients

Intercept:	0
Slope:	0.4576

Error Coefficients

Standard Error:	553000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	0.083516	10.0	1000650.0	0.417579	Y
2	IC 410-274149/17	0.5	0.229995	10.0	974107.0	0.459991	Y
3	IC 410-274149/16	1.0	0.439772	10.0	992900.0	0.439772	Y
4	IC 410-274149/15	2.0	0.971642	10.0	997250.0	0.485821	Y
5	IC 410-274149/14	5.0	2.395176	10.0	1047322.0	0.479035	Y
6	ICIS 410-274149/13	10.0	4.695939	10.0	1051287.0	0.469594	Y
7	IC 410-274149/12	25.0	11.289702	10.0	1090322.0	0.451588	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

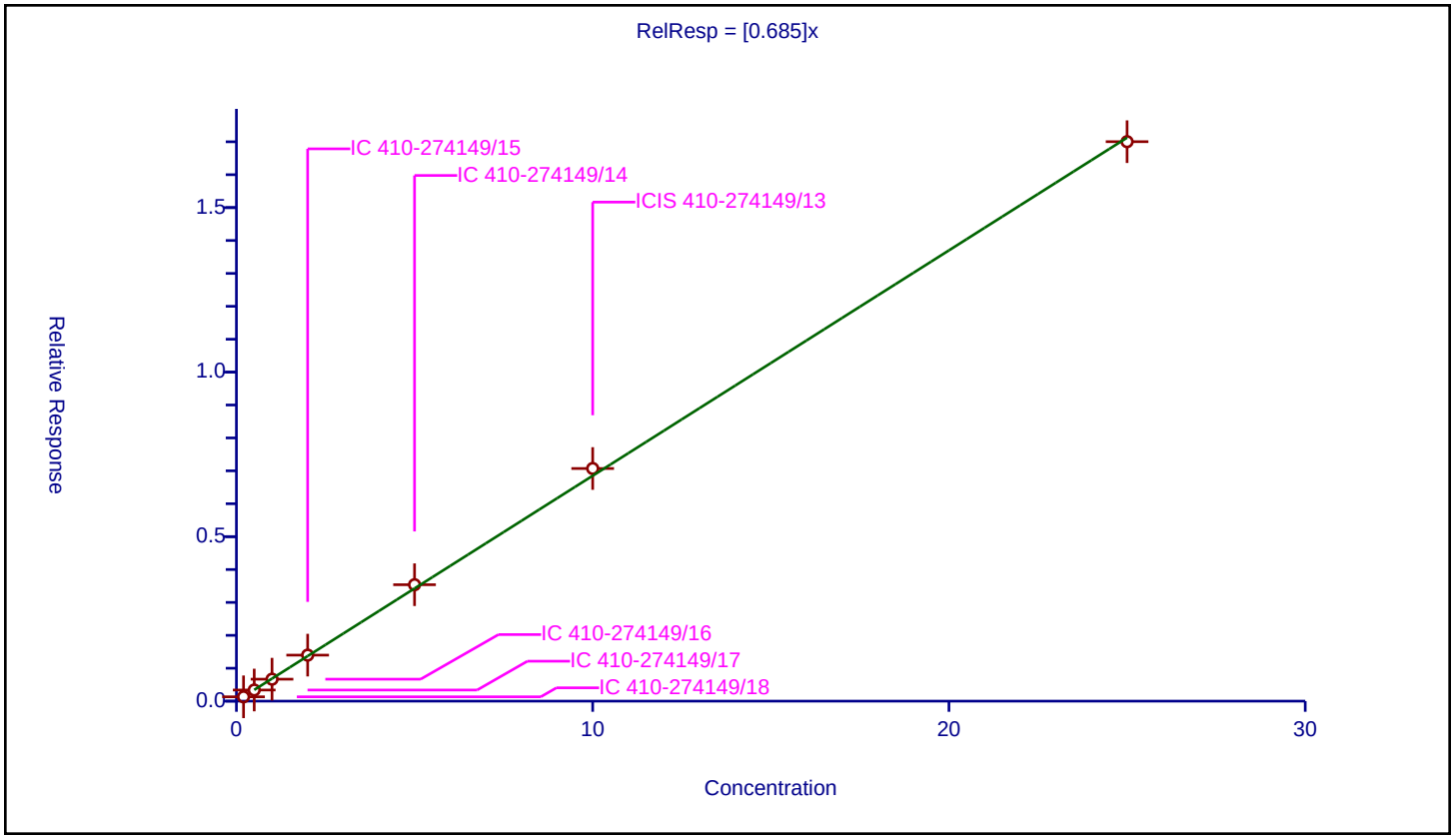
Curve Coefficients

Intercept:	0
Slope:	0.685

Error Coefficients

Standard Error:	832000
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 410-274149/18	0.2	0.131505	10.0	1000650.0	0.657523	Y
2	IC 410-274149/17	0.5	0.338146	10.0	974107.0	0.676291	Y
3	IC 410-274149/16	1.0	0.667157	10.0	992900.0	0.667157	Y
4	IC 410-274149/15	2.0	1.398606	10.0	997250.0	0.699303	Y
5	IC 410-274149/14	5.0	3.538262	10.0	1047322.0	0.707652	Y
6	ICIS 410-274149/13	10.0	7.070429	10.0	1051287.0	0.707043	Y
7	IC 410-274149/12	25.0	17.003206	10.0	1090322.0	0.680128	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

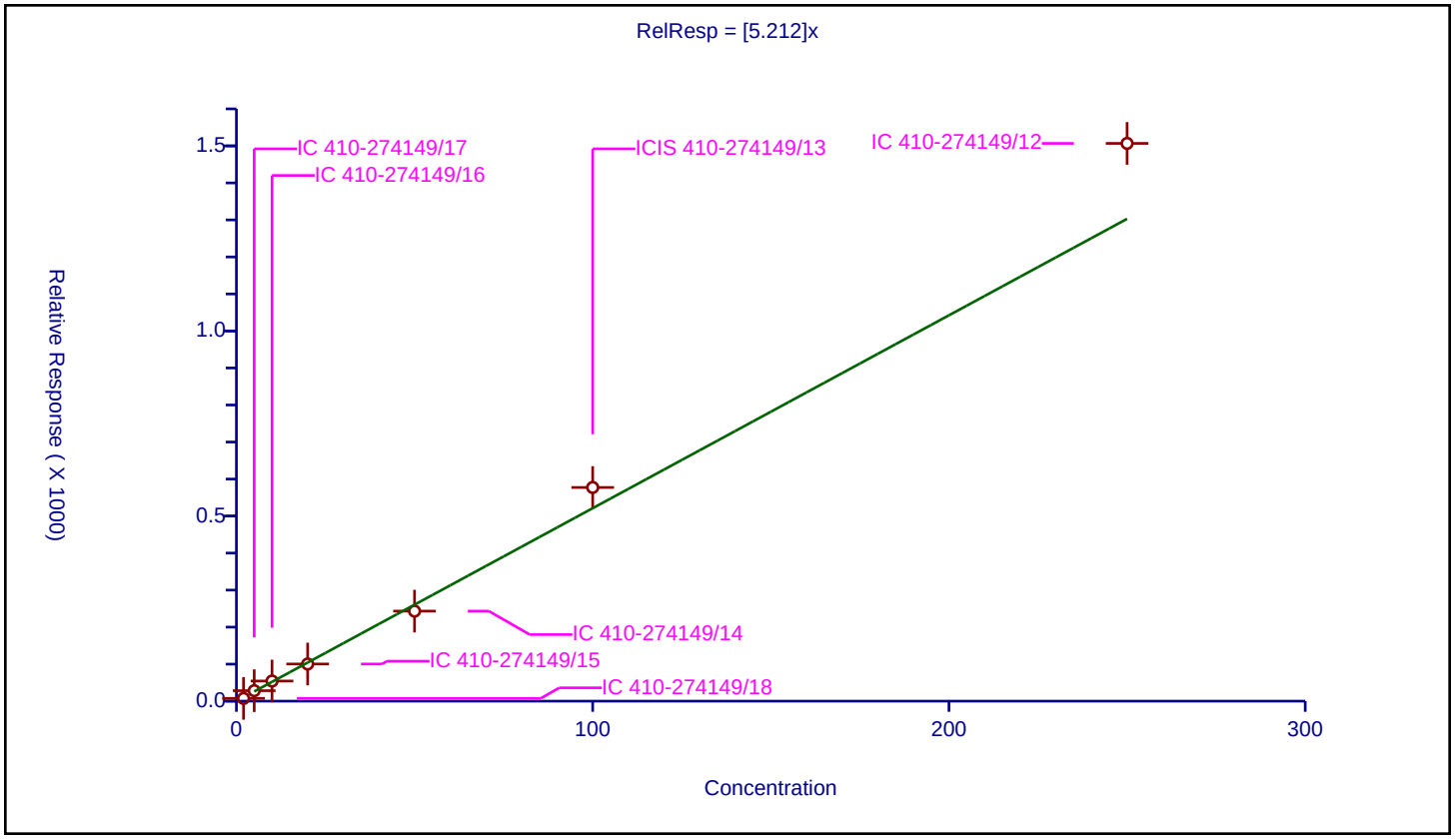
Curve Coefficients

Intercept:	0
Slope:	5.212

Error Coefficients

Standard Error:	1310000
Relative Standard Error:	14.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	2.0	7.435901	50.0	127772.0	3.717951	Y
2	IC 410-274149/17	5.0	28.253454	50.0	81790.0	5.650691	Y
3	IC 410-274149/16	10.0	54.339237	50.0	87066.0	5.433924	Y
4	IC 410-274149/15	20.0	100.309298	50.0	107663.0	5.015465	Y
5	IC 410-274149/14	50.0	243.243232	50.0	120975.0	4.864865	Y
6	ICIS 410-274149/13	100.0	577.240801	50.0	101370.0	5.772408	Y
7	IC 410-274149/12	250.0	1506.770693	50.0	96770.0	6.027083	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

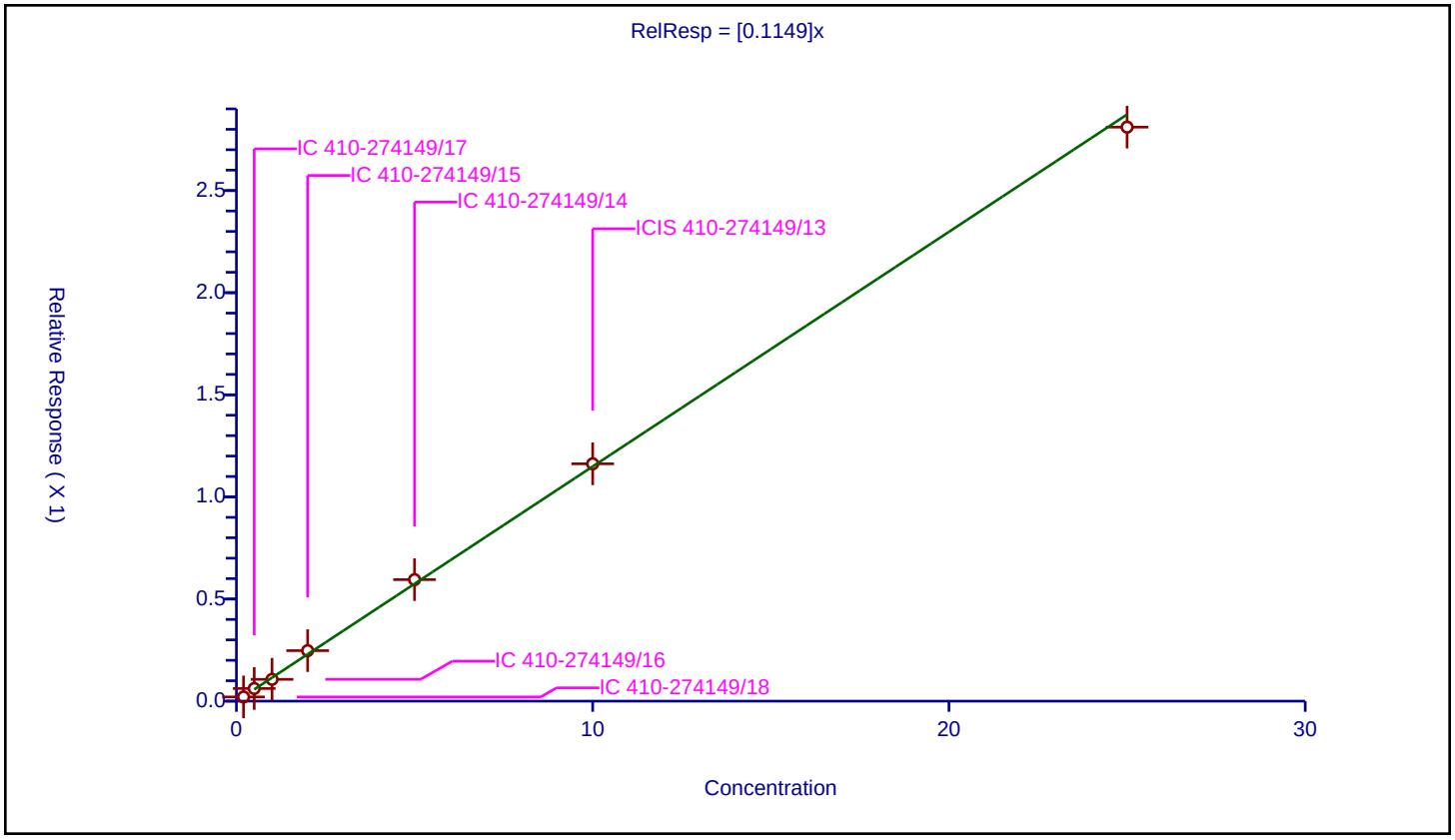
Curve Coefficients

Intercept:	0
Slope:	0.1149

Error Coefficients

Standard Error:	138000
Relative Standard Error:	7.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	0.020517	10.0	1000650.0	0.102583	Y
2	IC 410-274149/17	0.5	0.061841	10.0	974107.0	0.123683	Y
3	IC 410-274149/16	1.0	0.106738	10.0	992900.0	0.106738	Y
4	IC 410-274149/15	2.0	0.24732	10.0	997250.0	0.12366	Y
5	IC 410-274149/14	5.0	0.595022	10.0	1047322.0	0.119004	Y
6	ICIS 410-274149/13	10.0	1.162176	10.0	1051287.0	0.116218	Y
7	IC 410-274149/12	25.0	2.810601	10.0	1090322.0	0.112424	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

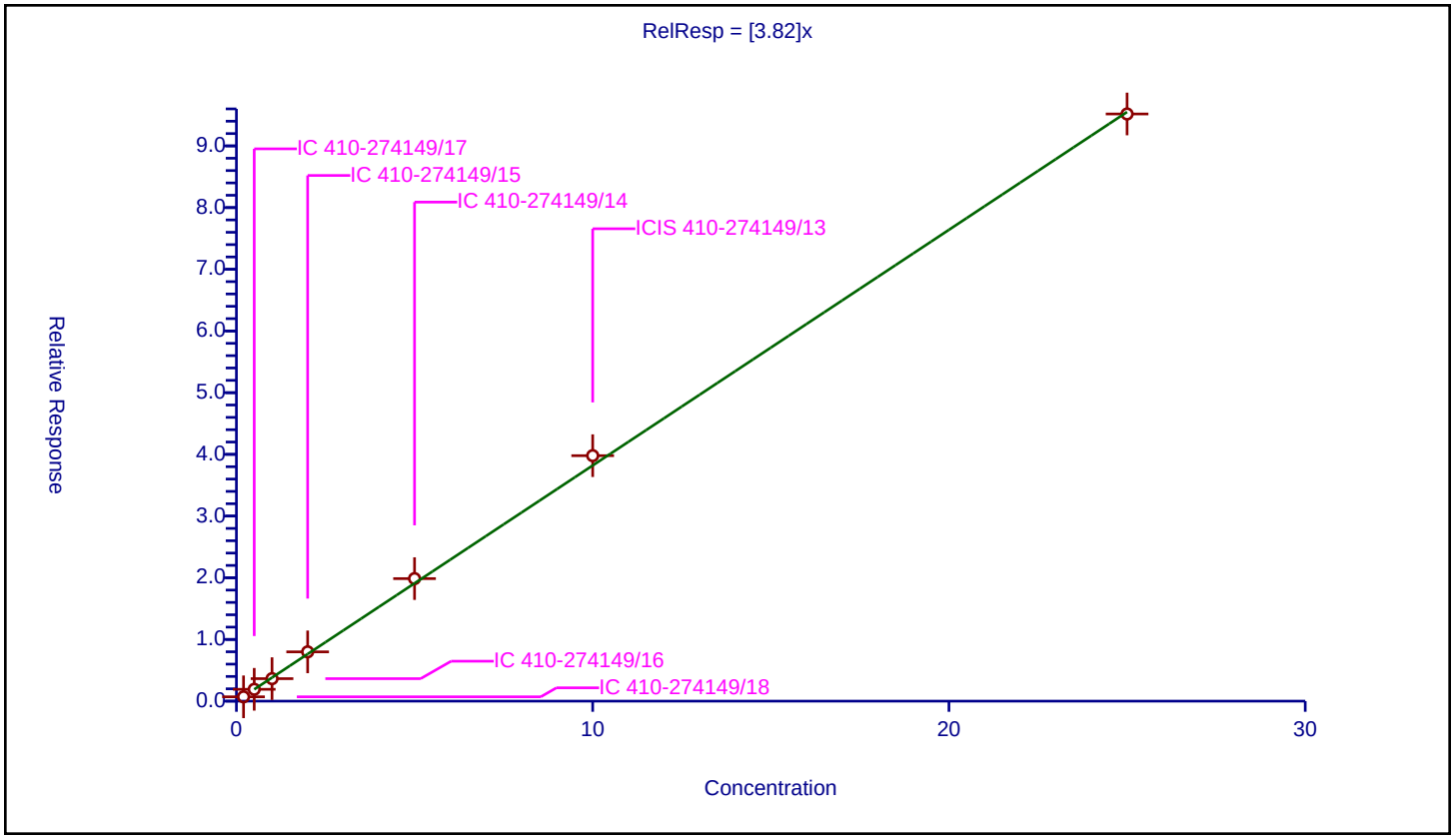
Curve Coefficients

Intercept:	0
Slope:	3.82

Error Coefficients

Standard Error:	4660000
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 410-274149/18	0.2	0.701294	10.0	1000650.0	3.506471	Y
2	IC 410-274149/17	0.5	1.917418	10.0	974107.0	3.834835	Y
3	IC 410-274149/16	1.0	3.644929	10.0	992900.0	3.644929	Y
4	IC 410-274149/15	2.0	7.989511	10.0	997250.0	3.994756	Y
5	IC 410-274149/14	5.0	19.863423	10.0	1047322.0	3.972685	Y
6	ICIS 410-274149/13	10.0	39.790409	10.0	1051287.0	3.979041	Y
7	IC 410-274149/12	25.0	95.176939	10.0	1090322.0	3.807078	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

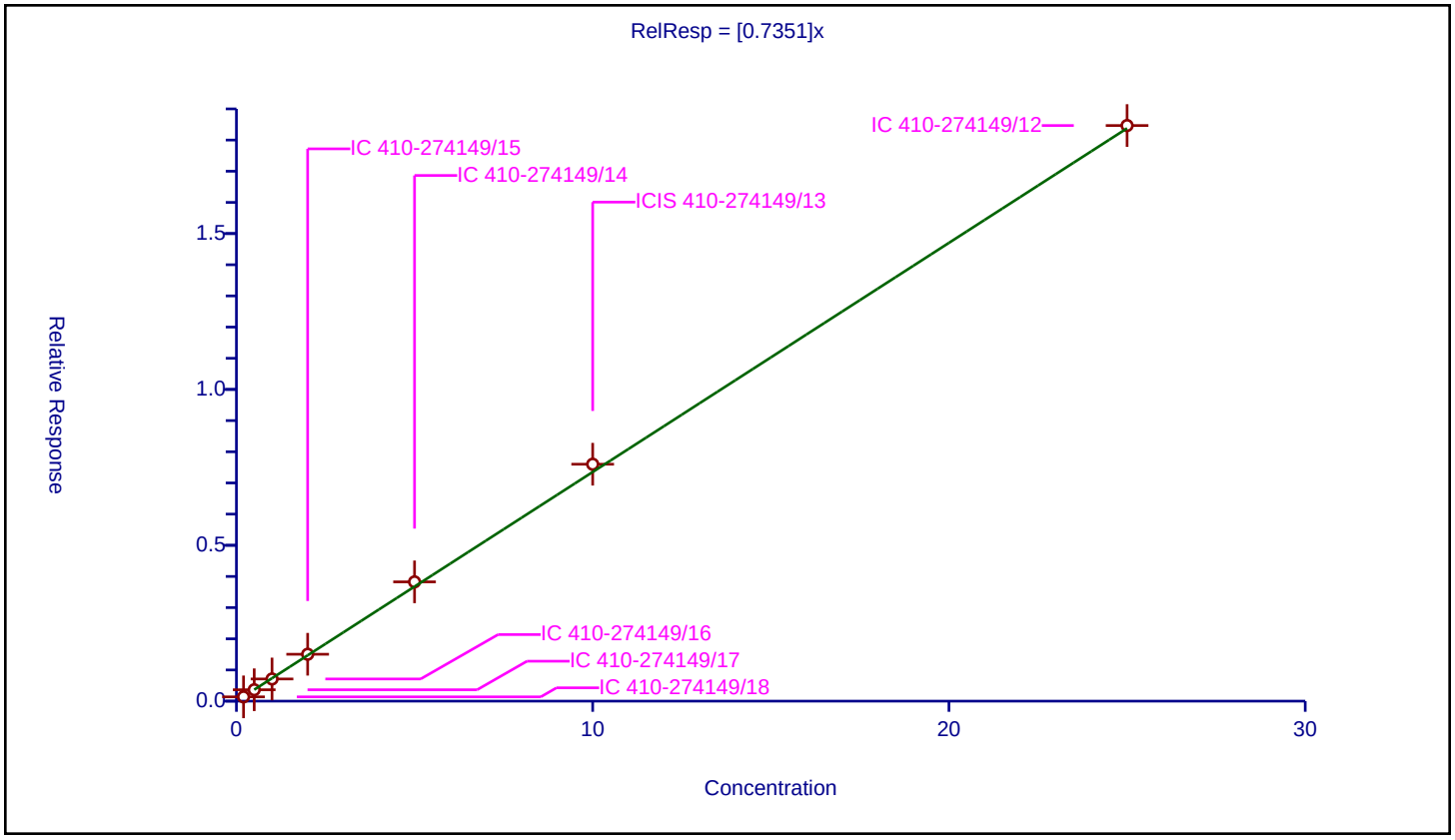
Curve Coefficients

Intercept:	0
Slope:	0.7351

Error Coefficients

Standard Error:	902000
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 410-274149/18	0.2	0.137511	10.0	1000650.0	0.687553	Y
2	IC 410-274149/17	0.5	0.365165	10.0	974107.0	0.73033	Y
3	IC 410-274149/16	1.0	0.711451	10.0	992900.0	0.711451	Y
4	IC 410-274149/15	2.0	1.504497	10.0	997250.0	0.752249	Y
5	IC 410-274149/14	5.0	3.826836	10.0	1047322.0	0.765367	Y
6	ICIS 410-274149/13	10.0	7.600836	10.0	1051287.0	0.760084	Y
7	IC 410-274149/12	25.0	18.465912	10.0	1090322.0	0.738636	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

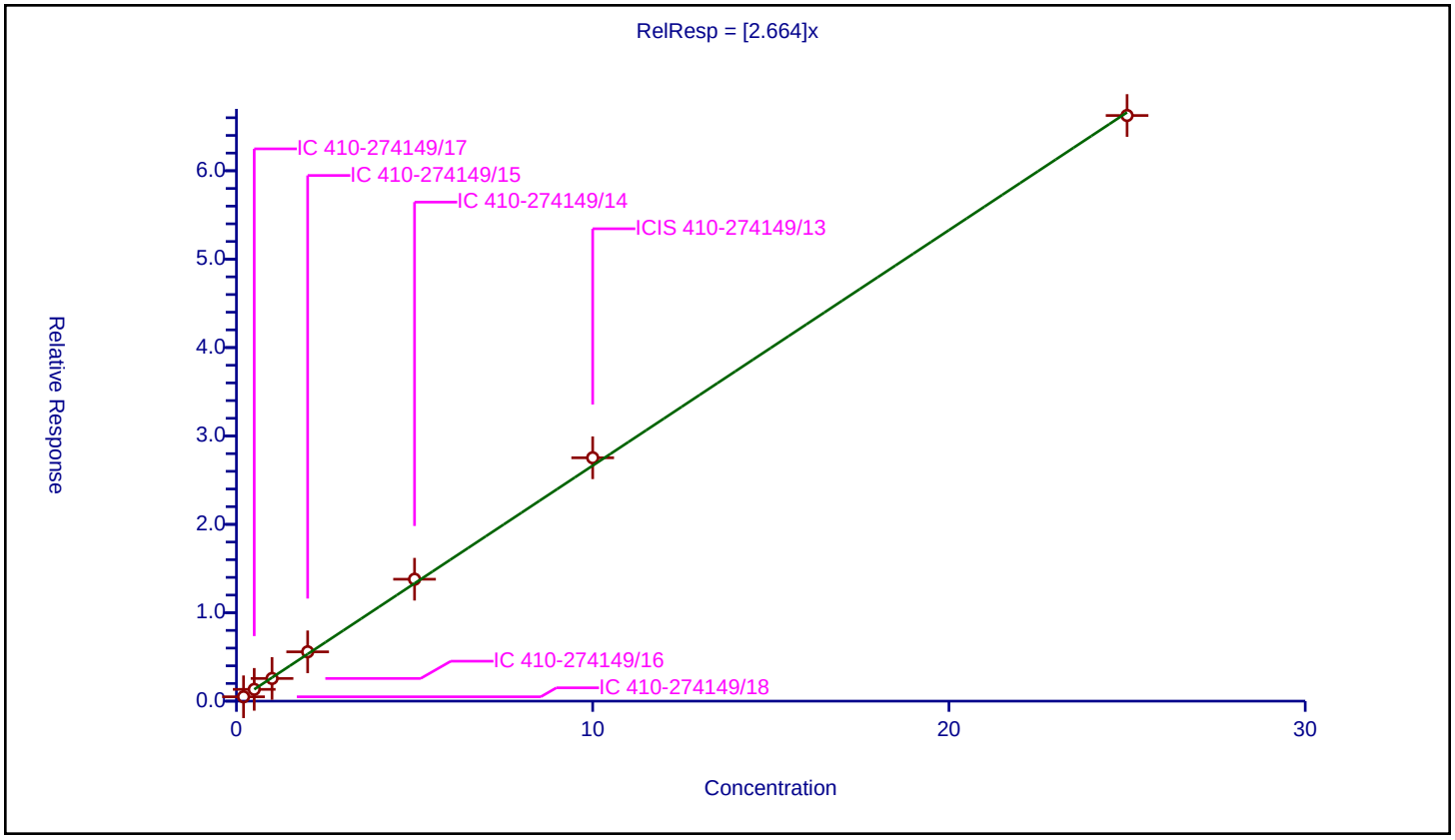
Curve Coefficients

Intercept:	0
Slope:	2.664

Error Coefficients

Standard Error:	3240000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	0.493579	10.0	1000650.0	2.467896	Y
2	IC 410-274149/17	0.5	1.332862	10.0	974107.0	2.665724	Y
3	IC 410-274149/16	1.0	2.564931	10.0	992900.0	2.564931	Y
4	IC 410-274149/15	2.0	5.579012	10.0	997250.0	2.789506	Y
5	IC 410-274149/14	5.0	13.791804	10.0	1047322.0	2.758361	Y
6	ICIS 410-274149/13	10.0	27.53329	10.0	1051287.0	2.753329	Y
7	IC 410-274149/12	25.0	66.251548	10.0	1090322.0	2.650062	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

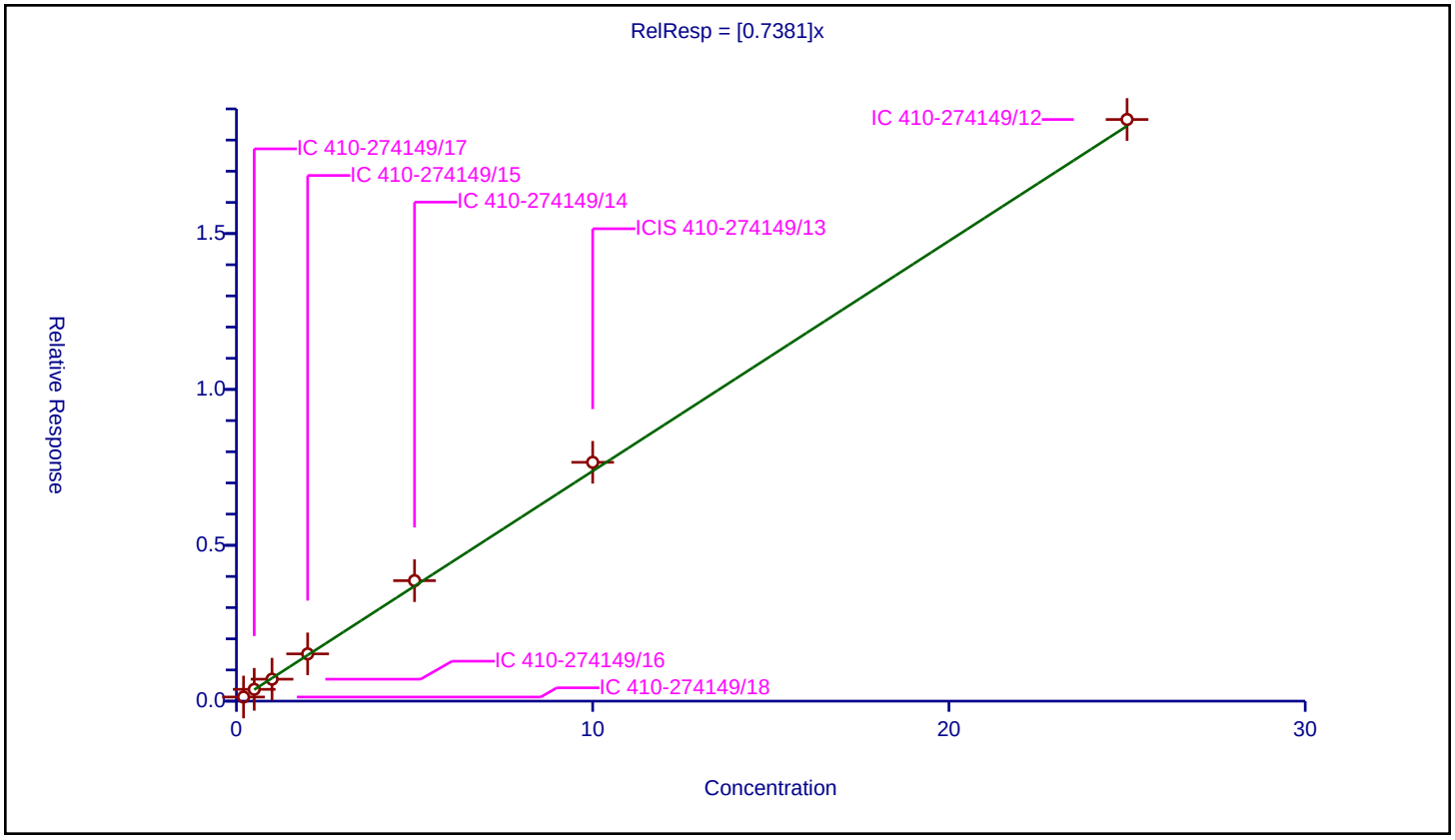
Curve Coefficients

Intercept:	0
Slope:	0.7381

Error Coefficients

Standard Error:	911000
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 410-274149/18	0.2	0.132214	10.0	1000650.0	0.66107	Y
2	IC 410-274149/17	0.5	0.378767	10.0	974107.0	0.757535	Y
3	IC 410-274149/16	1.0	0.704139	10.0	992900.0	0.704139	Y
4	IC 410-274149/15	2.0	1.516551	10.0	997250.0	0.758275	Y
5	IC 410-274149/14	5.0	3.86522	10.0	1047322.0	0.773044	Y
6	ICIS 410-274149/13	10.0	7.662161	10.0	1051287.0	0.766216	Y
7	IC 410-274149/12	25.0	18.660011	10.0	1090322.0	0.7464	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

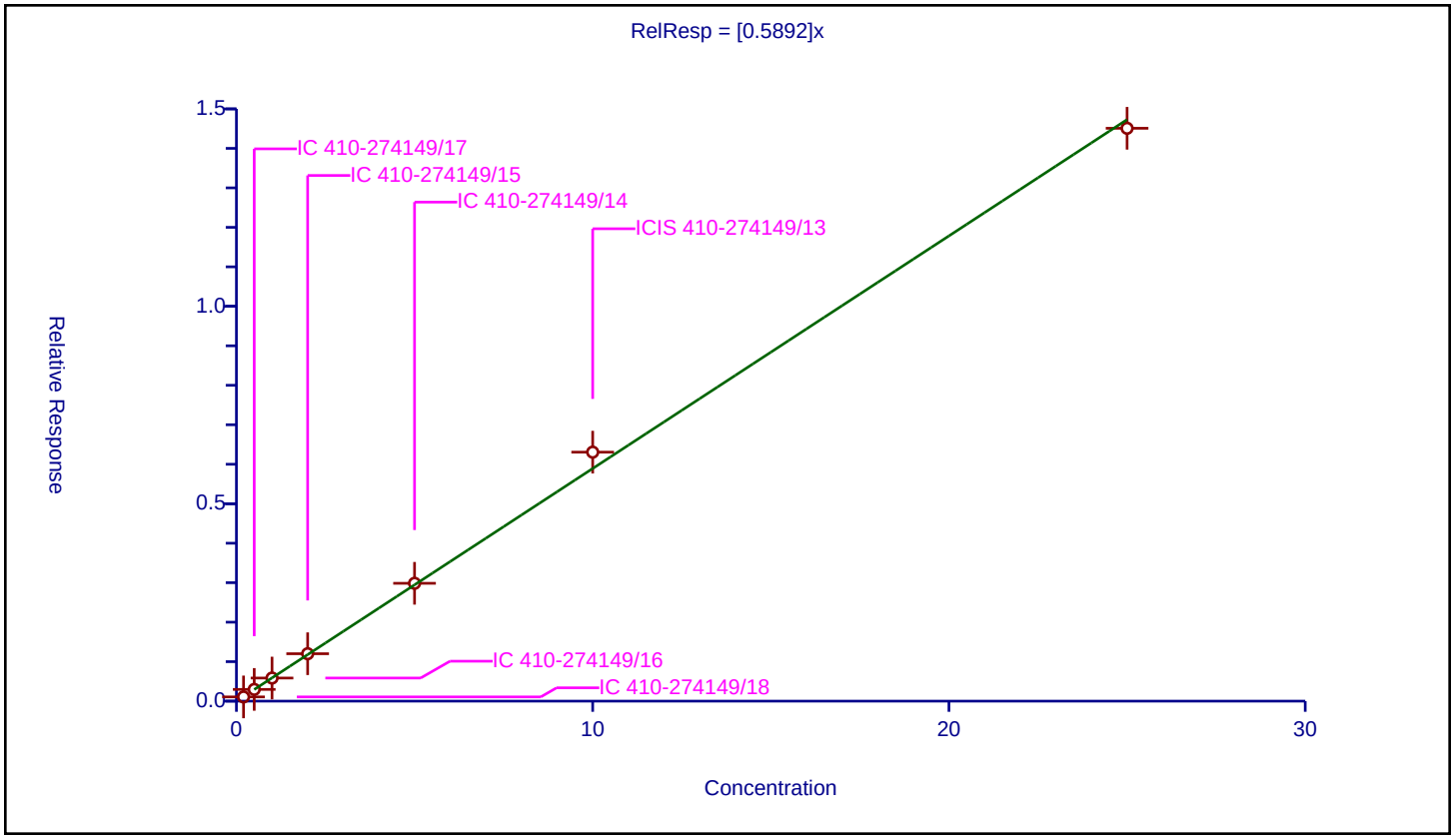
Curve Coefficients

Intercept:	0
Slope:	0.5892

Error Coefficients

Standard Error:	714000
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 410-274149/18	0.2	0.10715	10.0	1000650.0	0.535752	Y
2	IC 410-274149/17	0.5	0.297267	10.0	974107.0	0.594534	Y
3	IC 410-274149/16	1.0	0.585517	10.0	992900.0	0.585517	Y
4	IC 410-274149/15	2.0	1.200892	10.0	997250.0	0.600446	Y
5	IC 410-274149/14	5.0	2.984717	10.0	1047322.0	0.596943	Y
6	ICIS 410-274149/13	10.0	6.306194	10.0	1051287.0	0.630619	Y
7	IC 410-274149/12	25.0	14.508604	10.0	1090322.0	0.580344	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

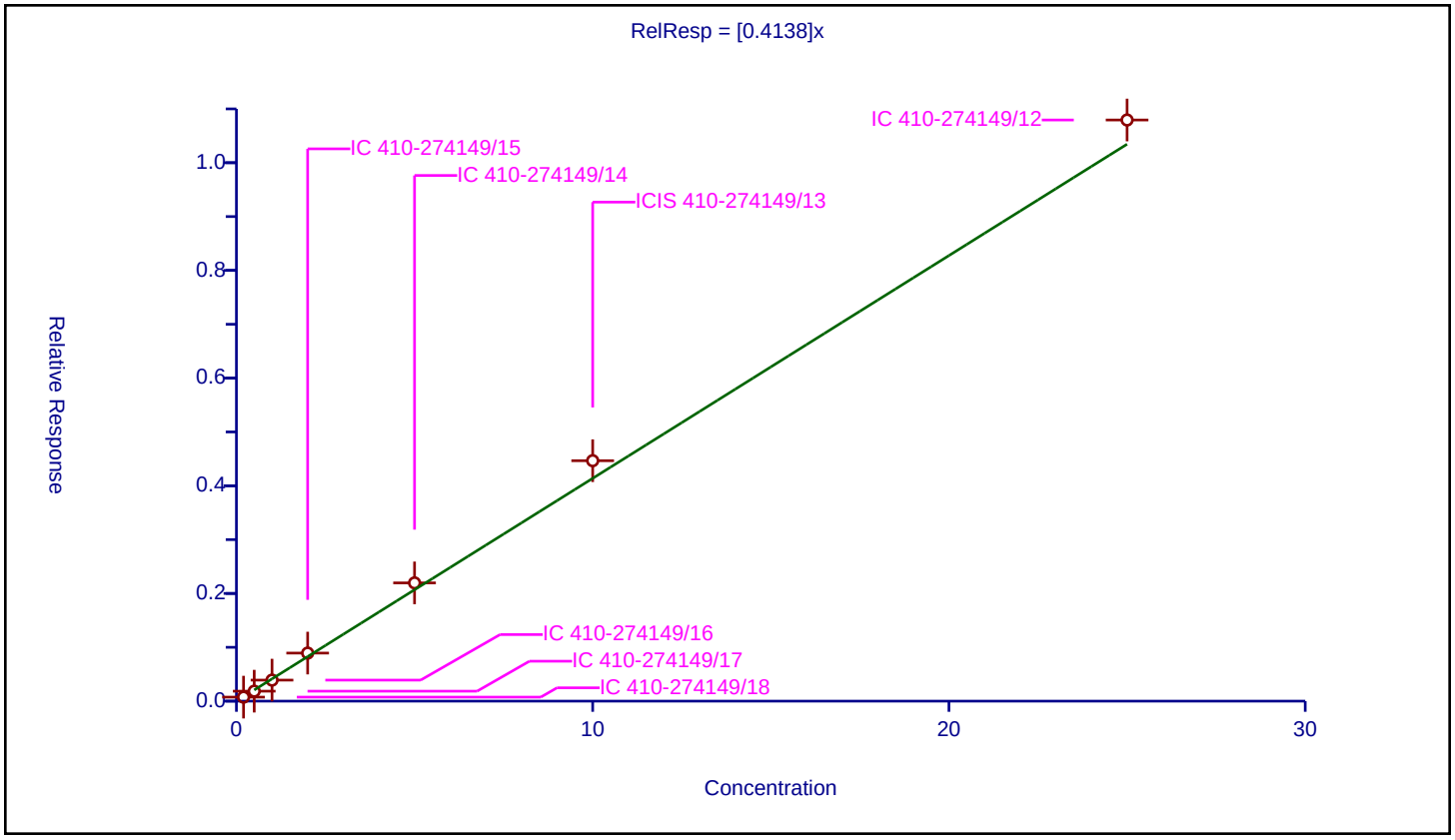
Curve Coefficients

Intercept:	0
Slope:	0.4138

Error Coefficients

Standard Error:	527000
Relative Standard Error:	8.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	0.074402	10.0	1000650.0	0.372008	Y
2	IC 410-274149/17	0.5	0.185021	10.0	974107.0	0.370041	Y
3	IC 410-274149/16	1.0	0.390613	10.0	992900.0	0.390613	Y
4	IC 410-274149/15	2.0	0.892524	10.0	997250.0	0.446262	Y
5	IC 410-274149/14	5.0	2.196335	10.0	1047322.0	0.439267	Y
6	ICIS 410-274149/13	10.0	4.465831	10.0	1051287.0	0.446583	Y
7	IC 410-274149/12	25.0	10.79394	10.0	1090322.0	0.431758	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

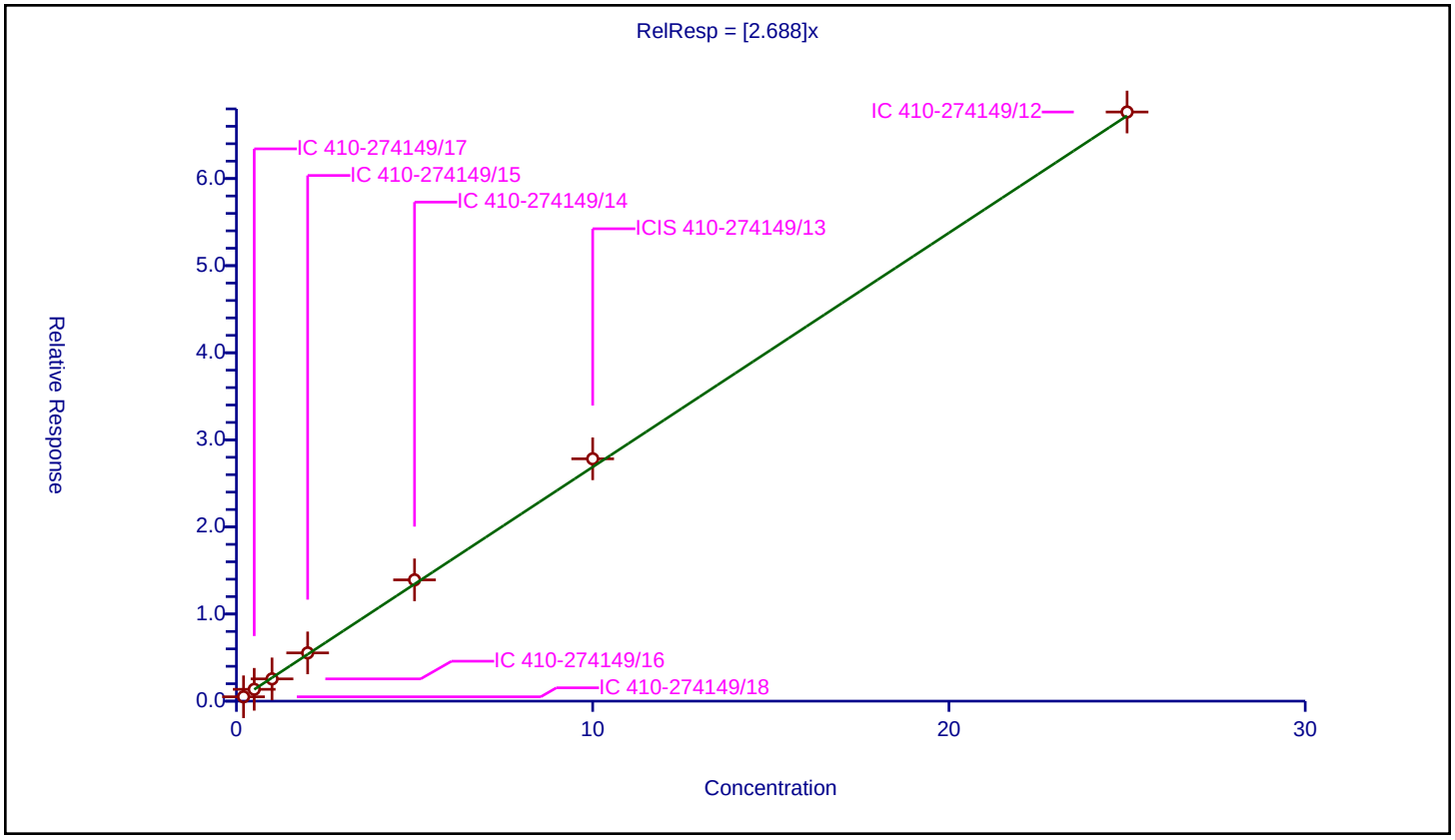
Curve Coefficients

Intercept:	0
Slope:	2.688

Error Coefficients

Standard Error:	3300000
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 410-274149/18	0.2	0.500984	10.0	1000650.0	2.504922	Y
2	IC 410-274149/17	0.5	1.358105	10.0	974107.0	2.716211	Y
3	IC 410-274149/16	1.0	2.555816	10.0	992900.0	2.555816	Y
4	IC 410-274149/15	2.0	5.53829	10.0	997250.0	2.769145	Y
5	IC 410-274149/14	5.0	13.923798	10.0	1047322.0	2.78476	Y
6	ICIS 410-274149/13	10.0	27.822602	10.0	1051287.0	2.78226	Y
7	IC 410-274149/12	25.0	67.641449	10.0	1090322.0	2.705658	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

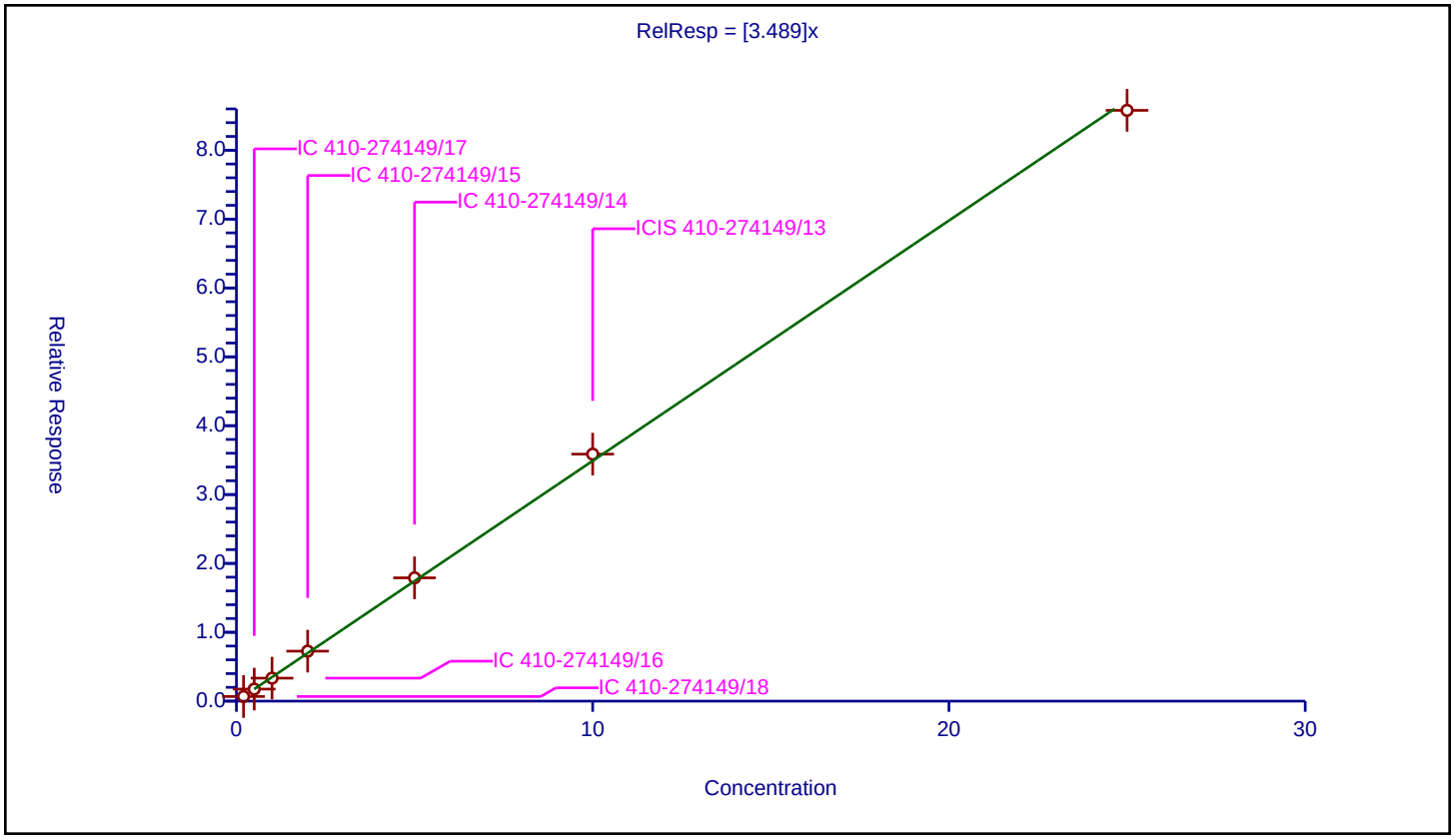
Curve Coefficients

Intercept:	0
Slope:	3.489

Error Coefficients

Standard Error:	4200000
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 410-274149/18	0.2	0.672433	10.0	1000650.0	3.362165	Y
2	IC 410-274149/17	0.5	1.748083	10.0	974107.0	3.496166	Y
3	IC 410-274149/16	1.0	3.338282	10.0	992900.0	3.338282	Y
4	IC 410-274149/15	2.0	7.257298	10.0	997250.0	3.628649	Y
5	IC 410-274149/14	5.0	17.903243	10.0	1047322.0	3.580649	Y
6	ICIS 410-274149/13	10.0	35.868749	10.0	1051287.0	3.586875	Y
7	IC 410-274149/12	25.0	85.786098	10.0	1090322.0	3.431444	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

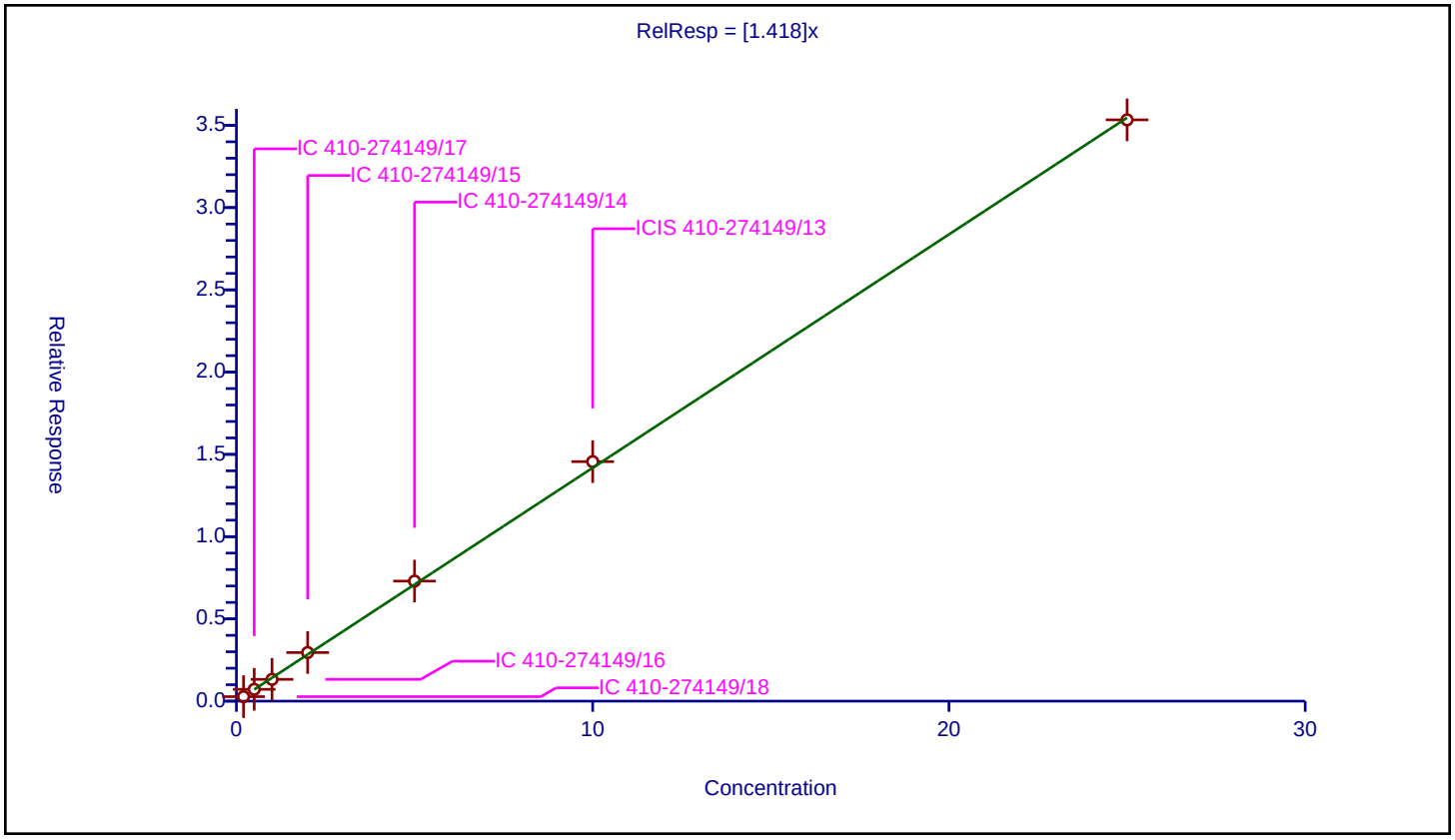
Curve Coefficients

Intercept:	0
Slope:	1.418

Error Coefficients

Standard Error:	1730000
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 410-274149/18	0.2	0.272983	10.0	1000650.0	1.364913	Y
2	IC 410-274149/17	0.5	0.717693	10.0	974107.0	1.435386	Y
3	IC 410-274149/16	1.0	1.323406	10.0	992900.0	1.323406	Y
4	IC 410-274149/15	2.0	2.953883	10.0	997250.0	1.476942	Y
5	IC 410-274149/14	5.0	7.297765	10.0	1047322.0	1.459553	Y
6	ICIS 410-274149/13	10.0	14.558822	10.0	1051287.0	1.455882	Y
7	IC 410-274149/12	25.0	35.333094	10.0	1090322.0	1.413324	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

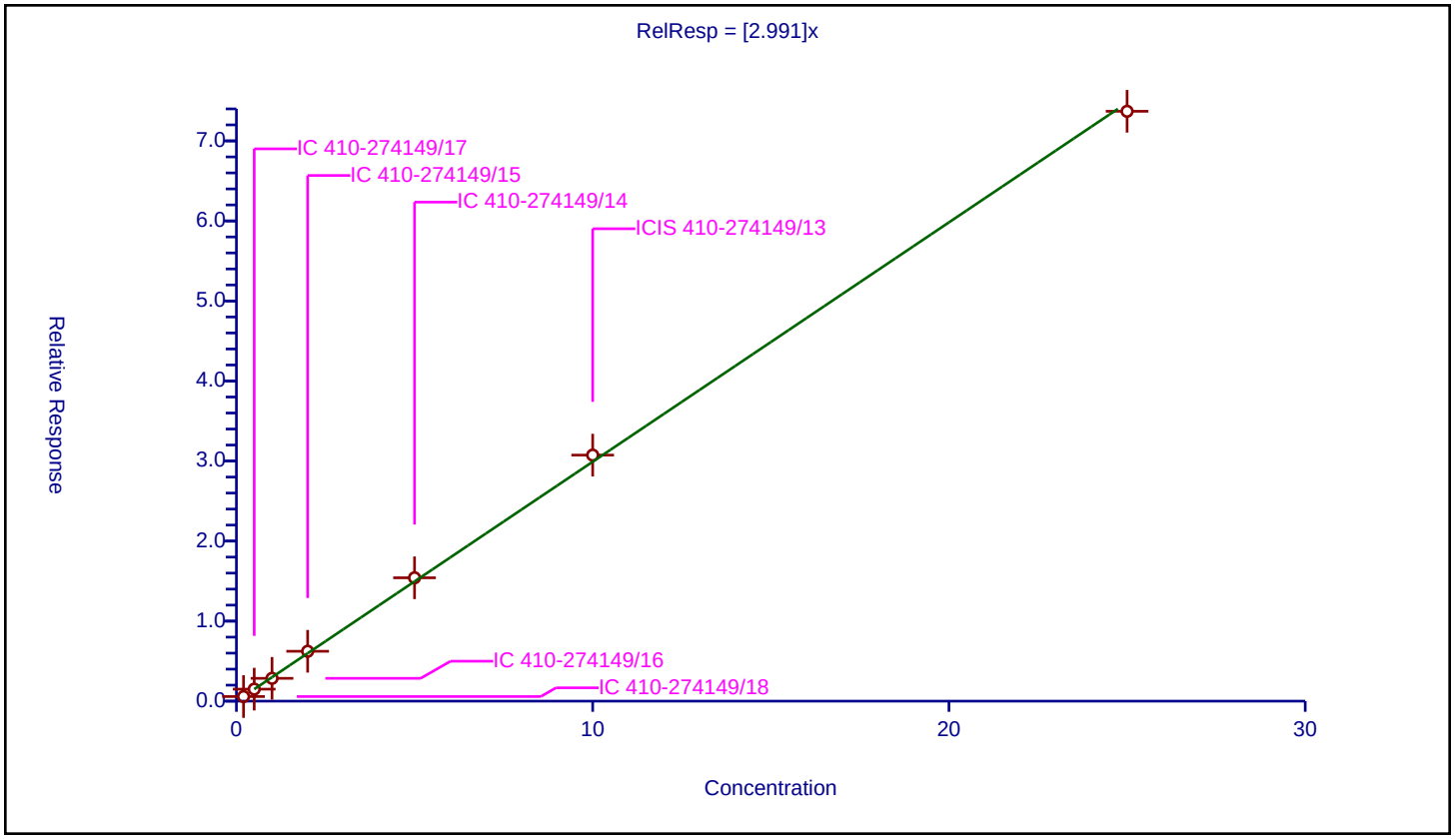
Curve Coefficients

Intercept:	0
Slope:	2.991

Error Coefficients

Standard Error:	3610000
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 410-274149/18	0.2	0.573247	10.0	1000650.0	2.866237	Y
2	IC 410-274149/17	0.5	1.500184	10.0	974107.0	3.000369	Y
3	IC 410-274149/16	1.0	2.850317	10.0	992900.0	2.850317	Y
4	IC 410-274149/15	2.0	6.230474	10.0	997250.0	3.115237	Y
5	IC 410-274149/14	5.0	15.413359	10.0	1047322.0	3.082672	Y
6	ICIS 410-274149/13	10.0	30.740901	10.0	1051287.0	3.07409	Y
7	IC 410-274149/12	25.0	73.698962	10.0	1090322.0	2.947958	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

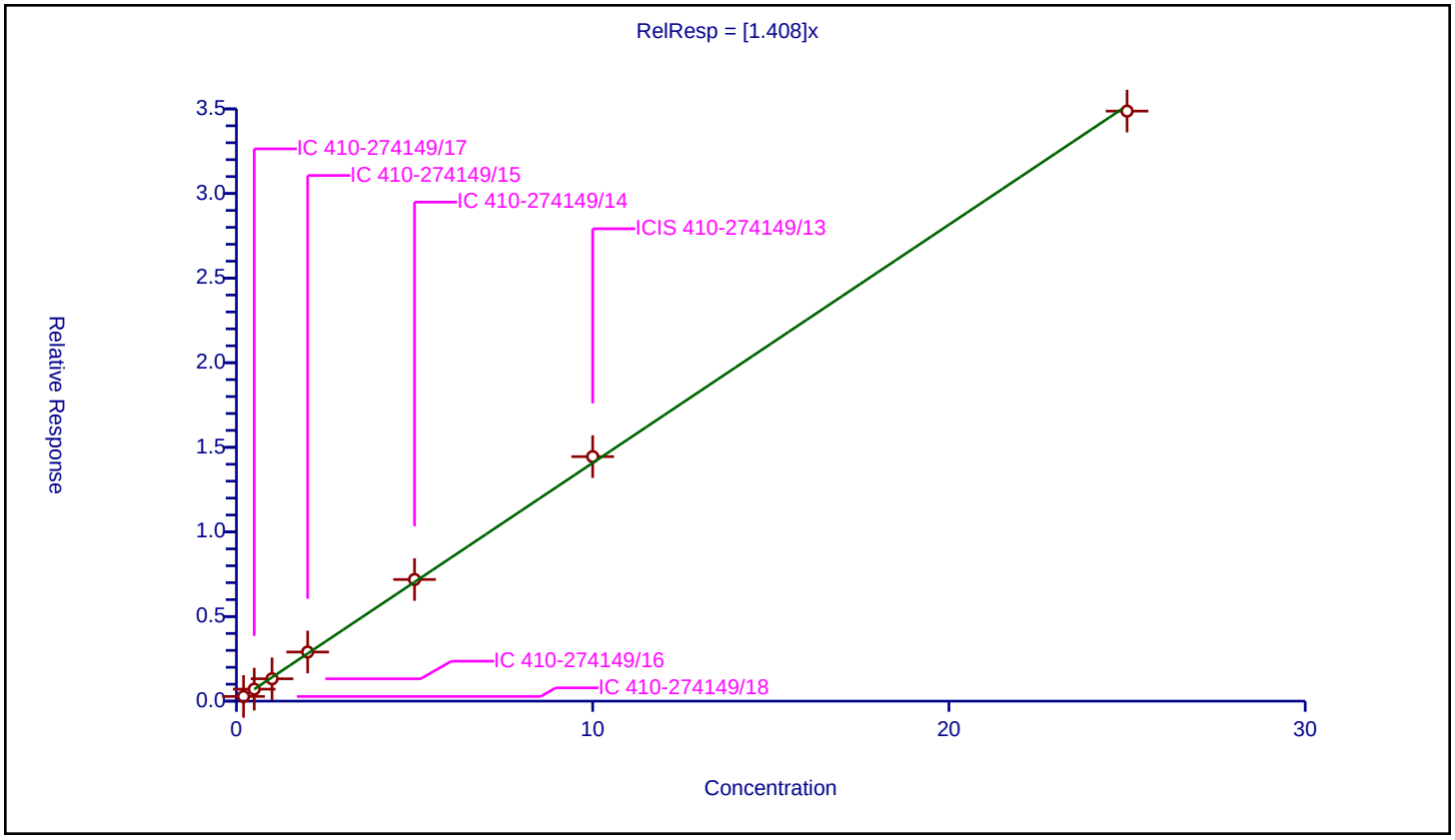
Curve Coefficients

Intercept:	0
Slope:	1.408

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 410-274149/18	0.2	0.27683	10.0	1000650.0	1.38415	Y
2	IC 410-274149/17	0.5	0.709573	10.0	974107.0	1.419146	Y
3	IC 410-274149/16	1.0	1.321644	10.0	992900.0	1.321644	Y
4	IC 410-274149/15	2.0	2.903926	10.0	997250.0	1.451963	Y
5	IC 410-274149/14	5.0	7.188792	10.0	1047322.0	1.437758	Y
6	ICIS 410-274149/13	10.0	14.450098	10.0	1051287.0	1.44501	Y
7	IC 410-274149/12	25.0	34.86914	10.0	1090322.0	1.394766	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

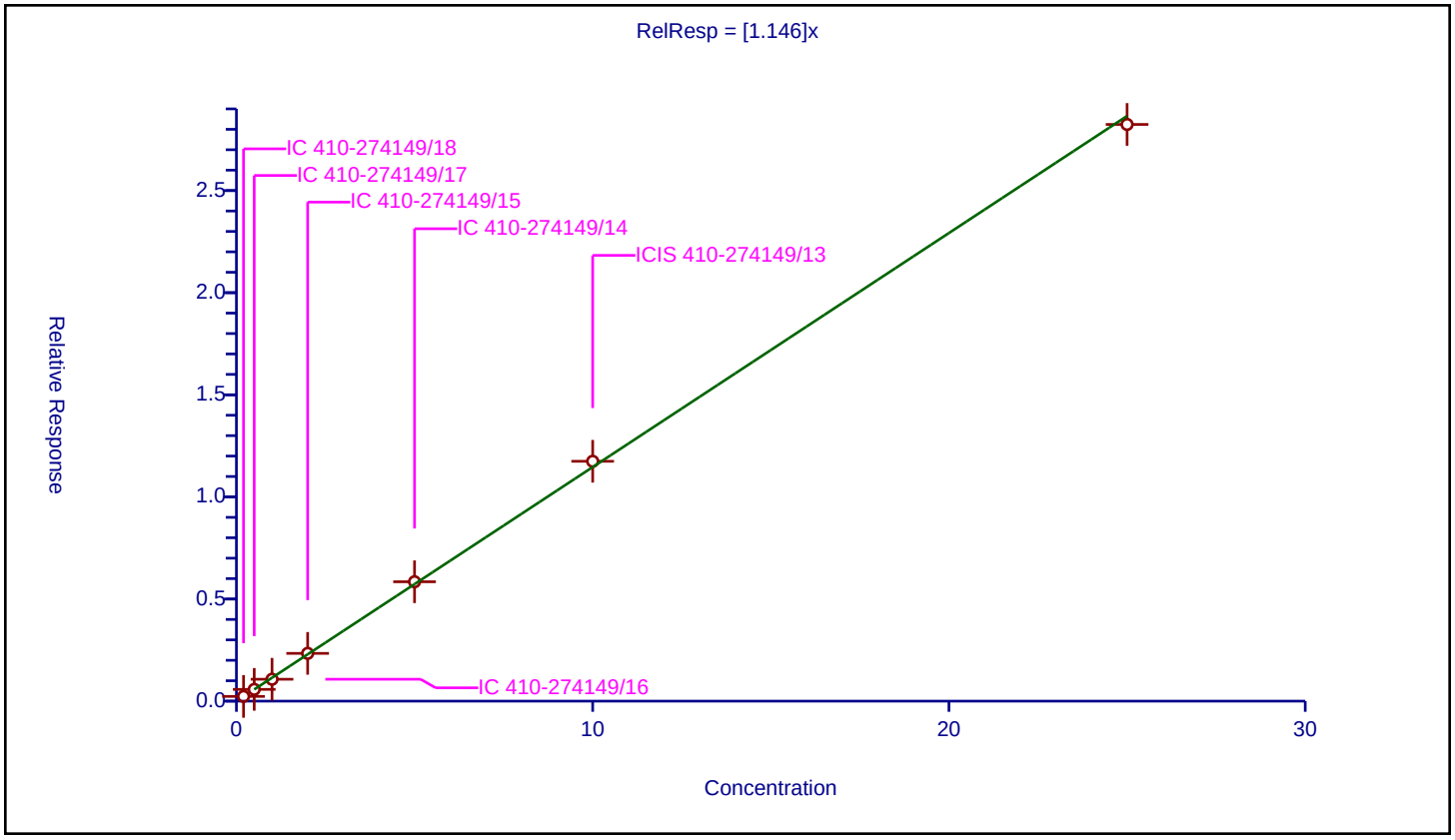
Curve Coefficients

Intercept:	0
Slope:	1.146

Error Coefficients

Standard Error:	1380000
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 410-274149/18	0.2	0.23128	10.0	1000650.0	1.156398	Y
2	IC 410-274149/17	0.5	0.575738	10.0	974107.0	1.151475	Y
3	IC 410-274149/16	1.0	1.072102	10.0	992900.0	1.072102	Y
4	IC 410-274149/15	2.0	2.339233	10.0	997250.0	1.169616	Y
5	IC 410-274149/14	5.0	5.845356	10.0	1047322.0	1.169071	Y
6	ICIS 410-274149/13	10.0	11.744195	10.0	1051287.0	1.17442	Y
7	IC 410-274149/12	25.0	28.238062	10.0	1090322.0	1.129522	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

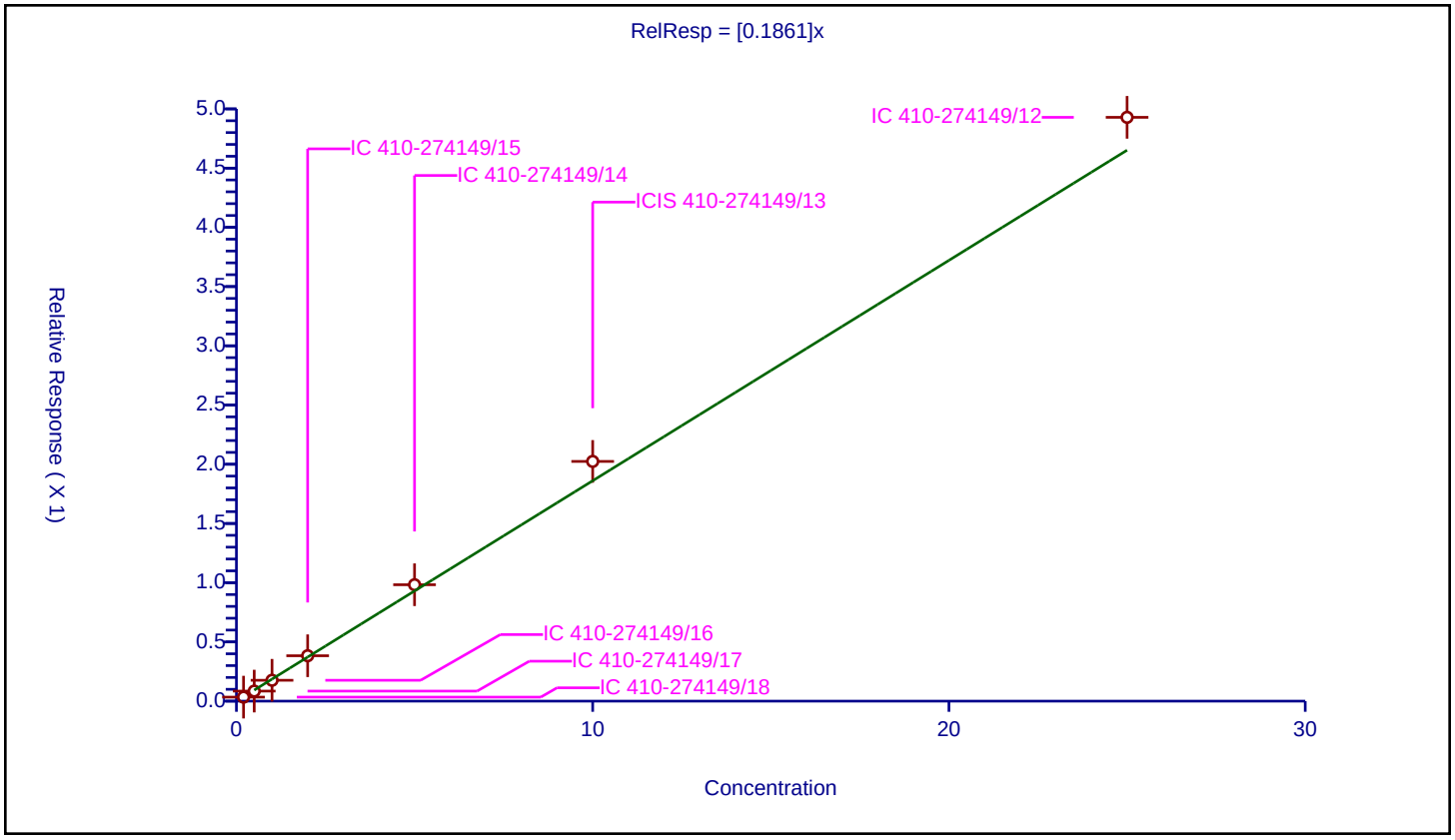
Curve Coefficients

Intercept:	0
Slope:	0.1861

Error Coefficients

Standard Error:	240000
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 410-274149/18	0.2	0.033768	10.0	1000650.0	0.16884	Y
2	IC 410-274149/17	0.5	0.084796	10.0	974107.0	0.169591	Y
3	IC 410-274149/16	1.0	0.176251	10.0	992900.0	0.176251	Y
4	IC 410-274149/15	2.0	0.383324	10.0	997250.0	0.191662	Y
5	IC 410-274149/14	5.0	0.982792	10.0	1047322.0	0.196558	Y
6	ICIS 410-274149/13	10.0	2.023872	10.0	1051287.0	0.202387	Y
7	IC 410-274149/12	25.0	4.92881	10.0	1090322.0	0.197152	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

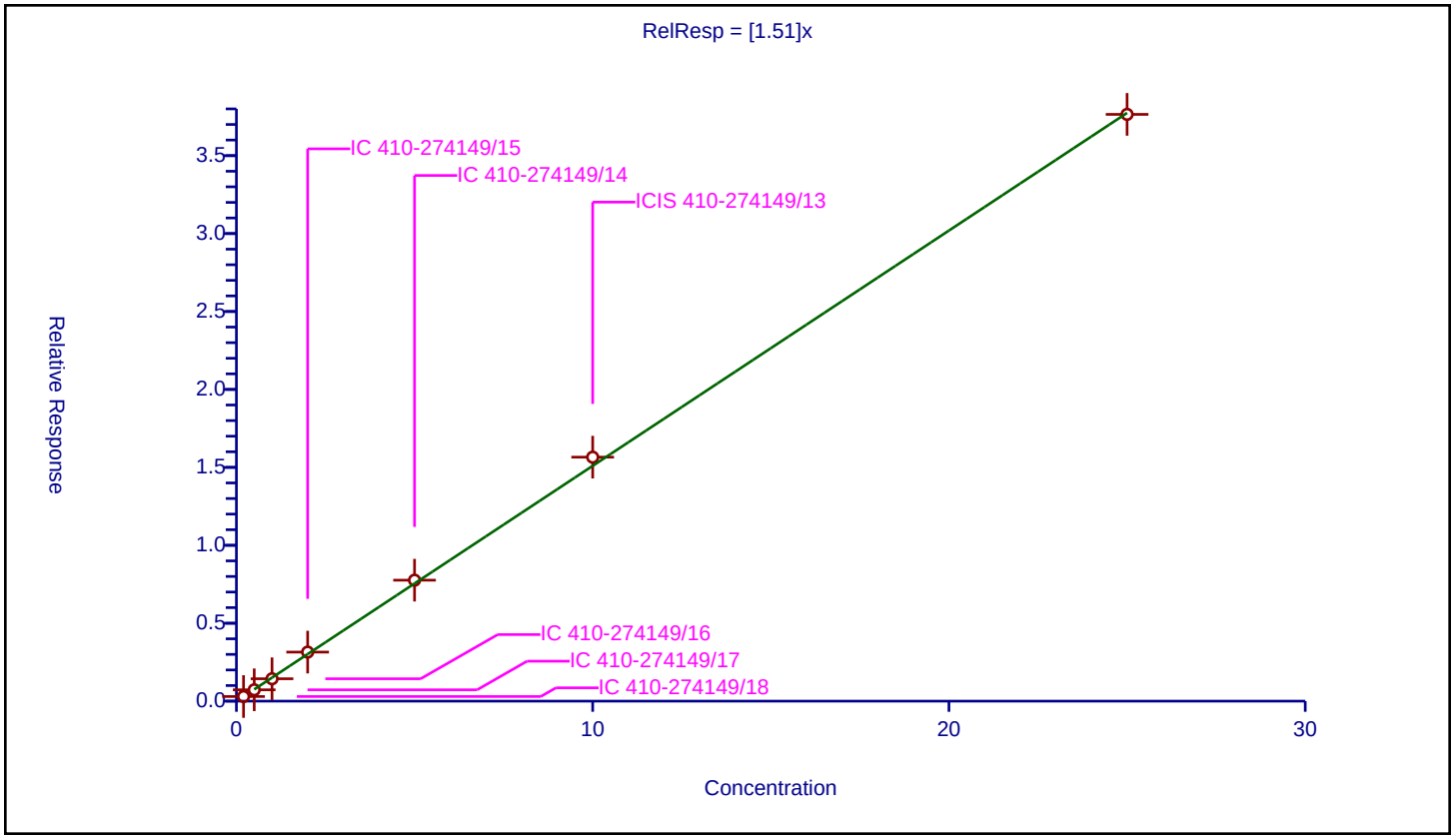
Curve Coefficients

Intercept:	0
Slope:	1.51

Error Coefficients

Standard Error:	1840000
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 410-274149/18	0.2	0.295778	10.0	1000650.0	1.478889	Y
2	IC 410-274149/17	0.5	0.727918	10.0	974107.0	1.455836	Y
3	IC 410-274149/16	1.0	1.435774	10.0	992900.0	1.435774	Y
4	IC 410-274149/15	2.0	3.147536	10.0	997250.0	1.573768	Y
5	IC 410-274149/14	5.0	7.760307	10.0	1047322.0	1.552061	Y
6	ICIS 410-274149/13	10.0	15.653528	10.0	1051287.0	1.565353	Y
7	IC 410-274149/12	25.0	37.648447	10.0	1090322.0	1.505938	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

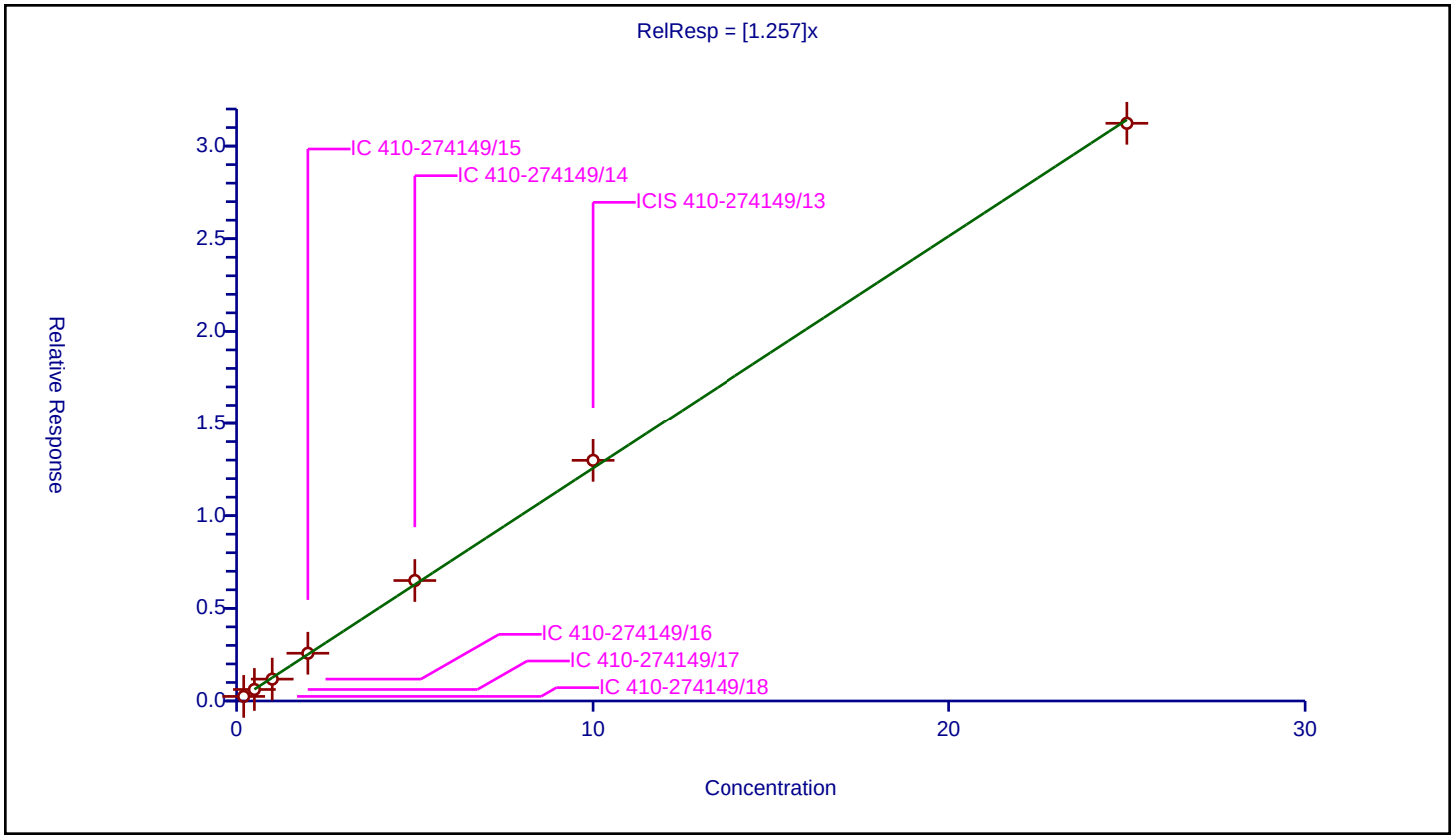
Curve Coefficients

Intercept:	0
Slope:	1.257

Error Coefficients

Standard Error:	1530000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	0.247299	10.0	1000650.0	1.236496	Y
2	IC 410-274149/17	0.5	0.621677	10.0	974107.0	1.243354	Y
3	IC 410-274149/16	1.0	1.180723	10.0	992900.0	1.180723	Y
4	IC 410-274149/15	2.0	2.576084	10.0	997250.0	1.288042	Y
5	IC 410-274149/14	5.0	6.501496	10.0	1047322.0	1.300299	Y
6	ICIS 410-274149/13	10.0	12.987348	10.0	1051287.0	1.298735	Y
7	IC 410-274149/12	25.0	31.230655	10.0	1090322.0	1.249226	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

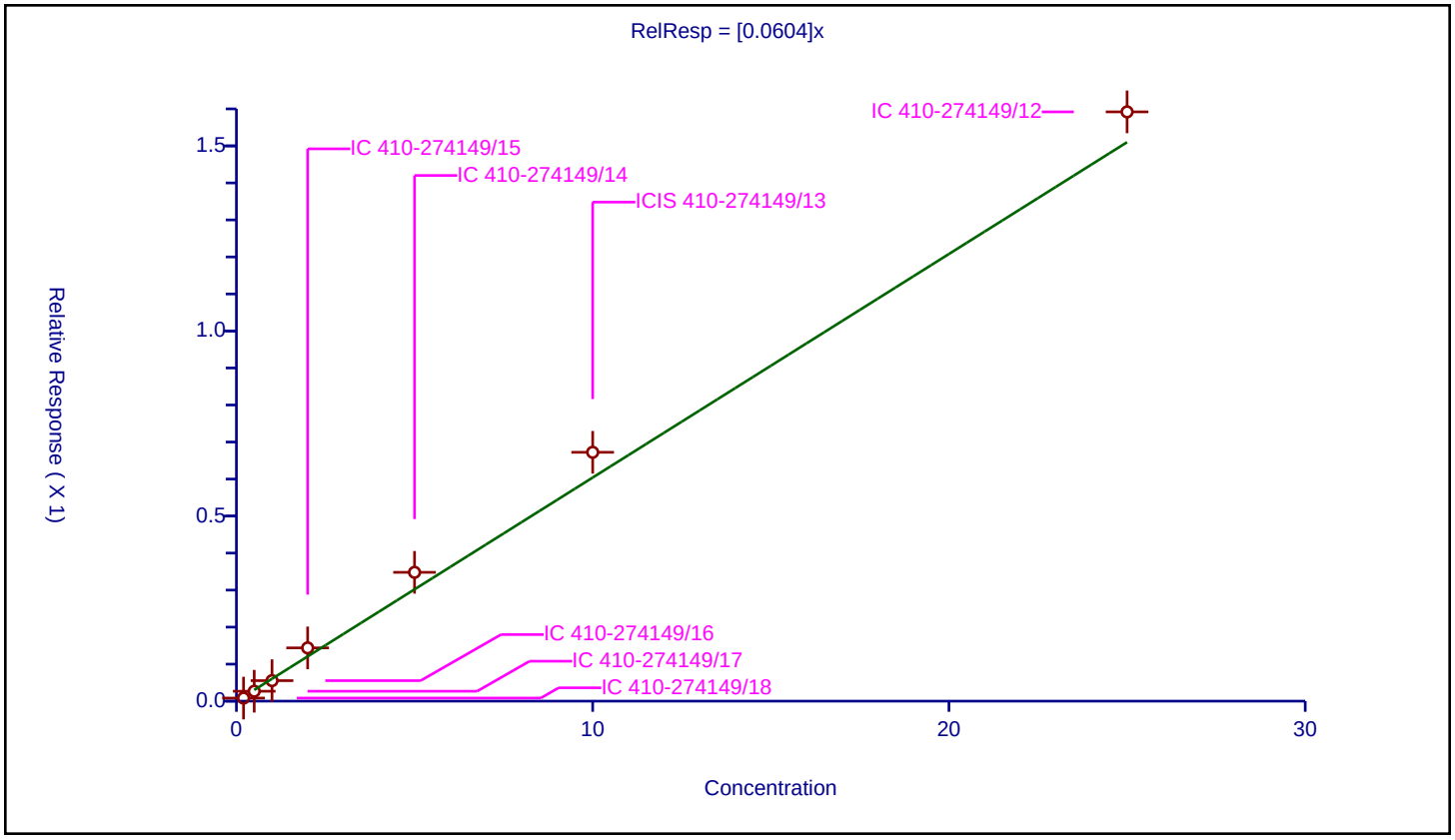
Curve Coefficients

Intercept:	0
Slope:	0.0604

Error Coefficients

Standard Error:	78200
Relative Standard Error:	18.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.965

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	0.008285	10.0	1000650.0	0.041423	Y
2	IC 410-274149/17	0.5	0.026784	10.0	974107.0	0.053567	Y
3	IC 410-274149/16	1.0	0.055383	10.0	992900.0	0.055383	Y
4	IC 410-274149/15	2.0	0.143856	10.0	997250.0	0.071928	Y
5	IC 410-274149/14	5.0	0.347983	10.0	1047322.0	0.069597	Y
6	ICIS 410-274149/13	10.0	0.67229	10.0	1051287.0	0.067229	Y
7	IC 410-274149/12	25.0	1.591952	10.0	1090322.0	0.063678	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

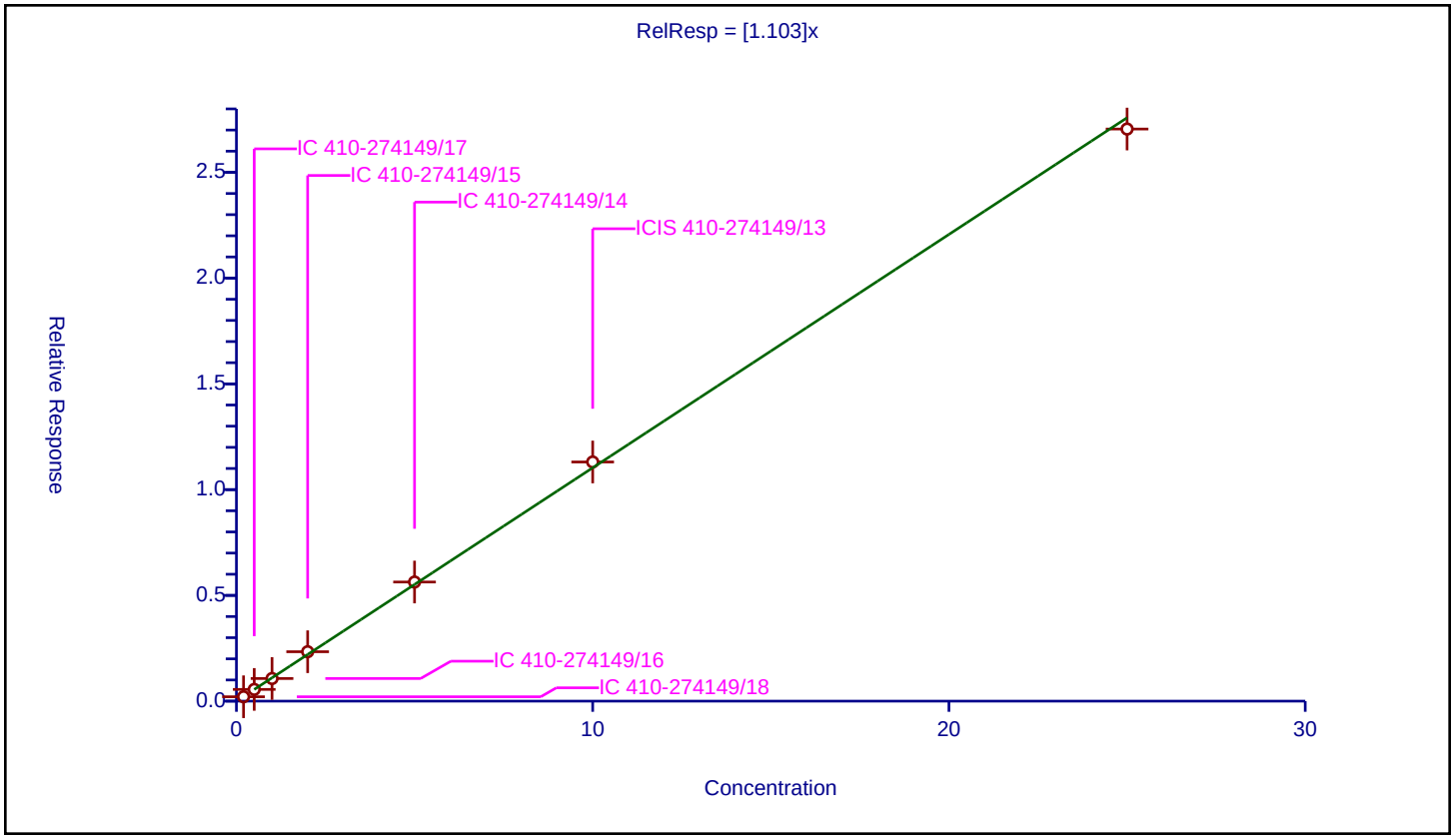
Curve Coefficients

Intercept:	0
Slope:	1.103

Error Coefficients

Standard Error:	1320000
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 410-274149/18	0.2	0.207245	10.0	1000650.0	1.036226	Y
2	IC 410-274149/17	0.5	0.554672	10.0	974107.0	1.109344	Y
3	IC 410-274149/16	1.0	1.070098	10.0	992900.0	1.070098	Y
4	IC 410-274149/15	2.0	2.336445	10.0	997250.0	1.168223	Y
5	IC 410-274149/14	5.0	5.632165	10.0	1047322.0	1.126433	Y
6	ICIS 410-274149/13	10.0	11.306988	10.0	1051287.0	1.130699	Y
7	IC 410-274149/12	25.0	27.048037	10.0	1090322.0	1.081921	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

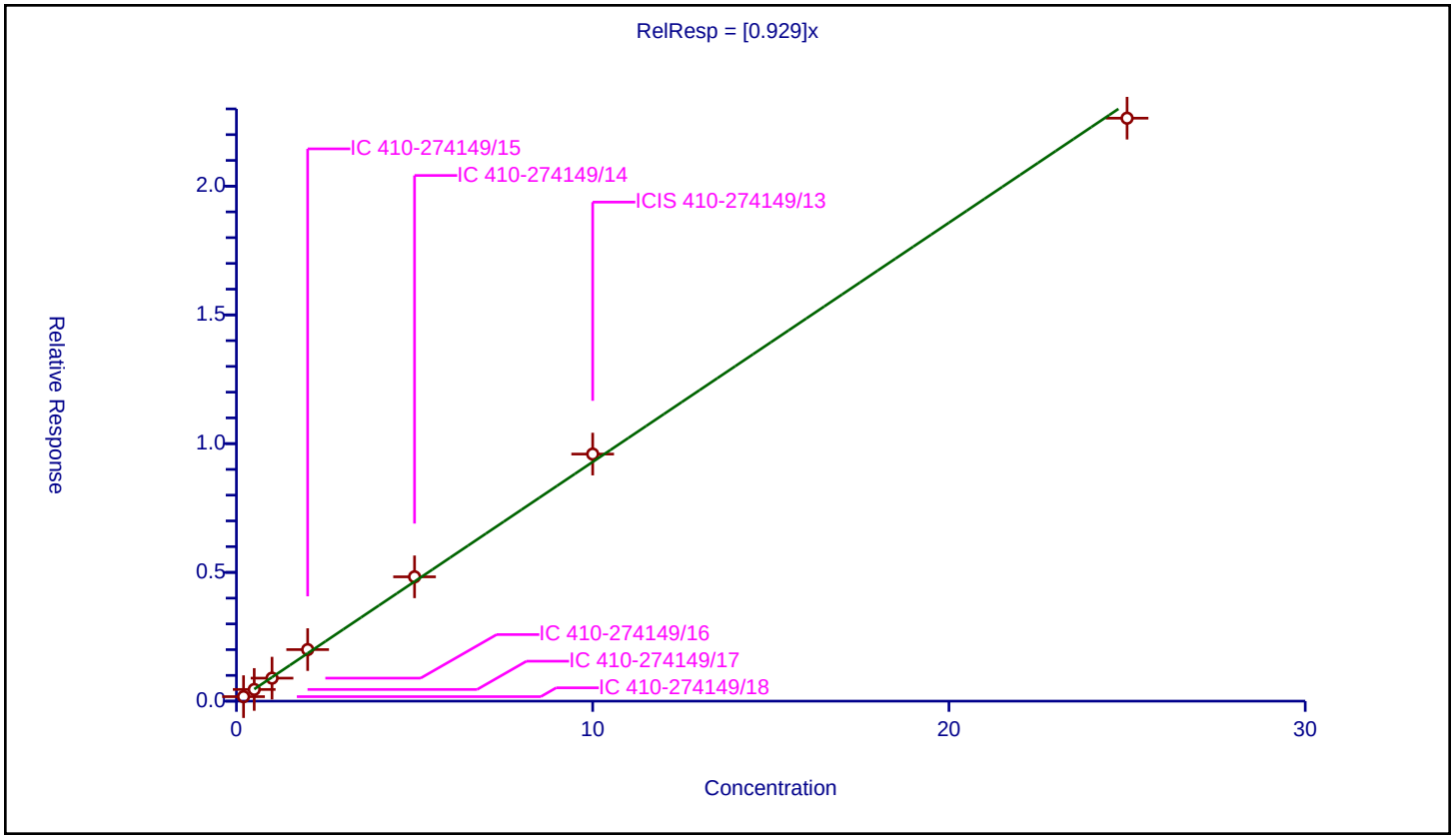
Curve Coefficients

Intercept:	0
Slope:	0.929

Error Coefficients

Standard Error:	1110000
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 410-274149/18	0.2	0.174067	10.0	1000650.0	0.870334	Y
2	IC 410-274149/17	0.5	0.453954	10.0	974107.0	0.907908	Y
3	IC 410-274149/16	1.0	0.893202	10.0	992900.0	0.893202	Y
4	IC 410-274149/15	2.0	2.001935	10.0	997250.0	1.000968	Y
5	IC 410-274149/14	5.0	4.827665	10.0	1047322.0	0.965533	Y
6	ICIS 410-274149/13	10.0	9.595505	10.0	1051287.0	0.959551	Y
7	IC 410-274149/12	25.0	22.638863	10.0	1090322.0	0.905555	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

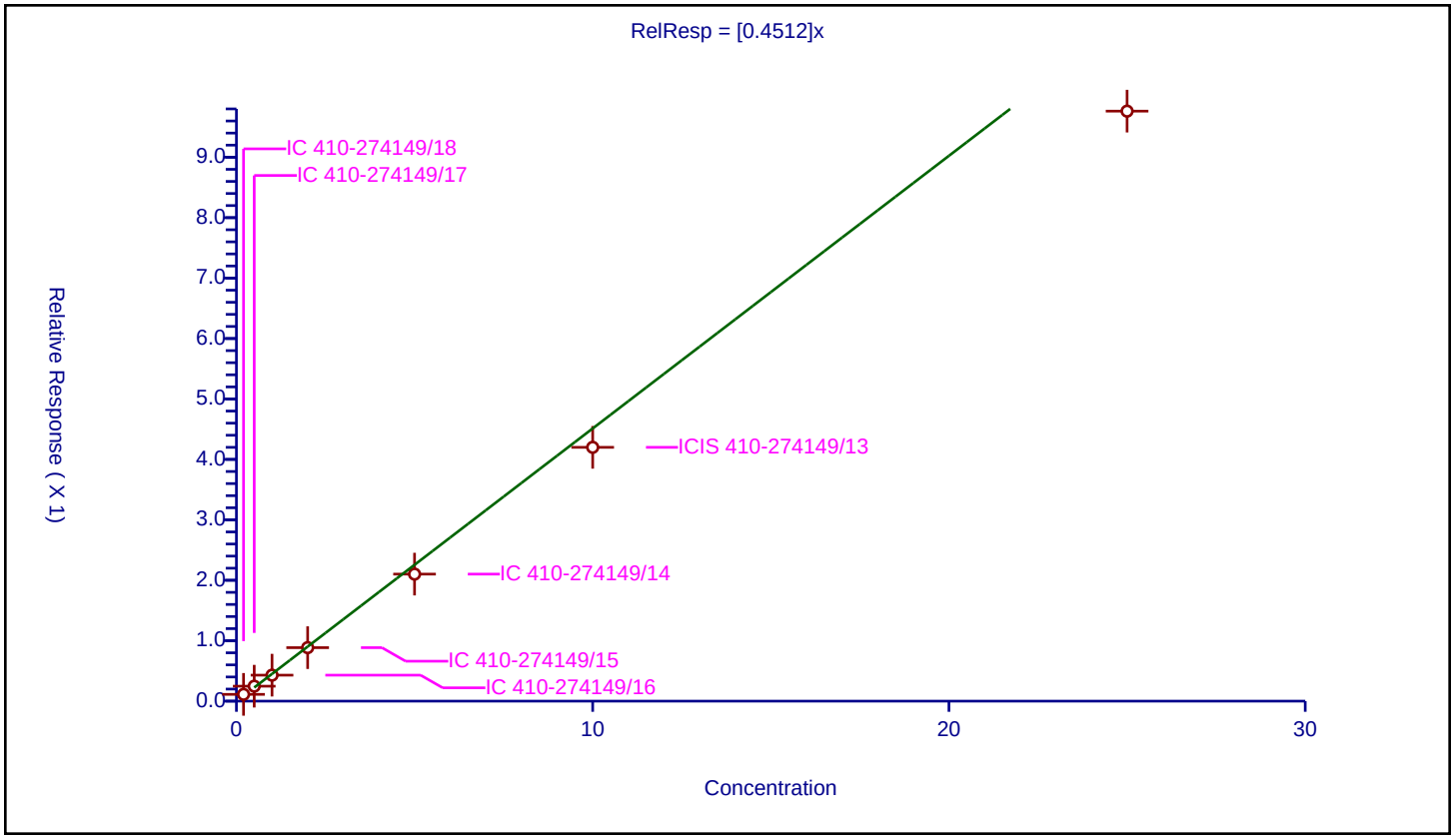
Curve Coefficients

Intercept:	0
Slope:	0.4512

Error Coefficients

Standard Error:	481000
Relative Standard Error:	12.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	0.112037	10.0	1000650.0	0.560186	Y
2	IC 410-274149/17	0.5	0.247468	10.0	974107.0	0.494935	Y
3	IC 410-274149/16	1.0	0.429761	10.0	992900.0	0.429761	Y
4	IC 410-274149/15	2.0	0.885114	10.0	997250.0	0.442557	Y
5	IC 410-274149/14	5.0	2.101932	10.0	1047322.0	0.420386	Y
6	ICIS 410-274149/13	10.0	4.199966	10.0	1051287.0	0.419997	Y
7	IC 410-274149/12	25.0	9.762987	10.0	1090322.0	0.390519	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

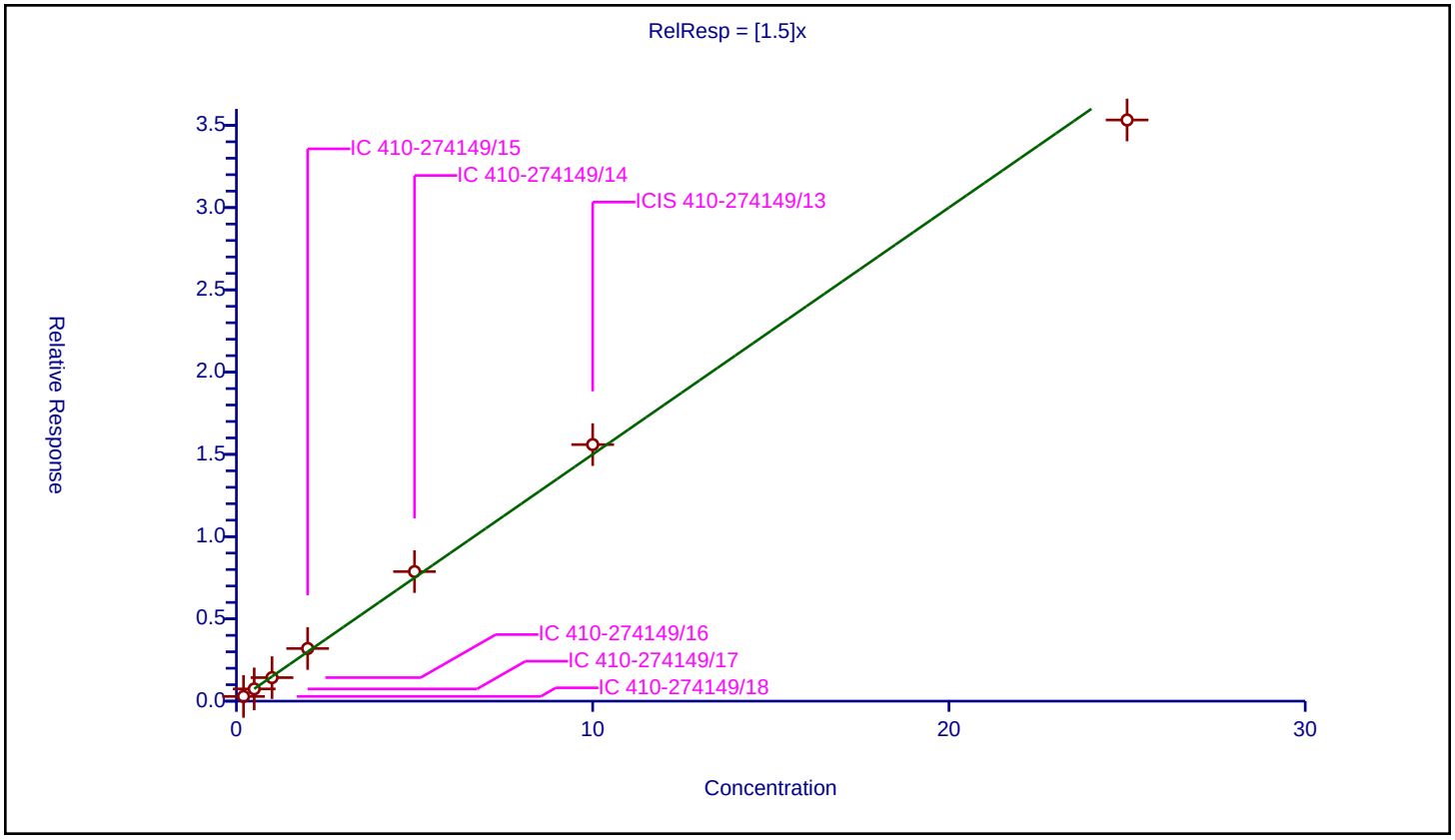
Curve Coefficients

Intercept:	0
Slope:	1.5

Error Coefficients

Standard Error:	1750000
Relative Standard Error:	5.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	0.287023	10.0	1000650.0	1.435117	Y
2	IC 410-274149/17	0.5	0.743614	10.0	974107.0	1.487229	Y
3	IC 410-274149/16	1.0	1.429832	10.0	992900.0	1.429832	Y
4	IC 410-274149/15	2.0	3.201093	10.0	997250.0	1.600547	Y
5	IC 410-274149/14	5.0	7.87582	10.0	1047322.0	1.575164	Y
6	ICIS 410-274149/13	10.0	15.594895	10.0	1051287.0	1.559489	Y
7	IC 410-274149/12	25.0	35.324134	10.0	1090322.0	1.412965	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

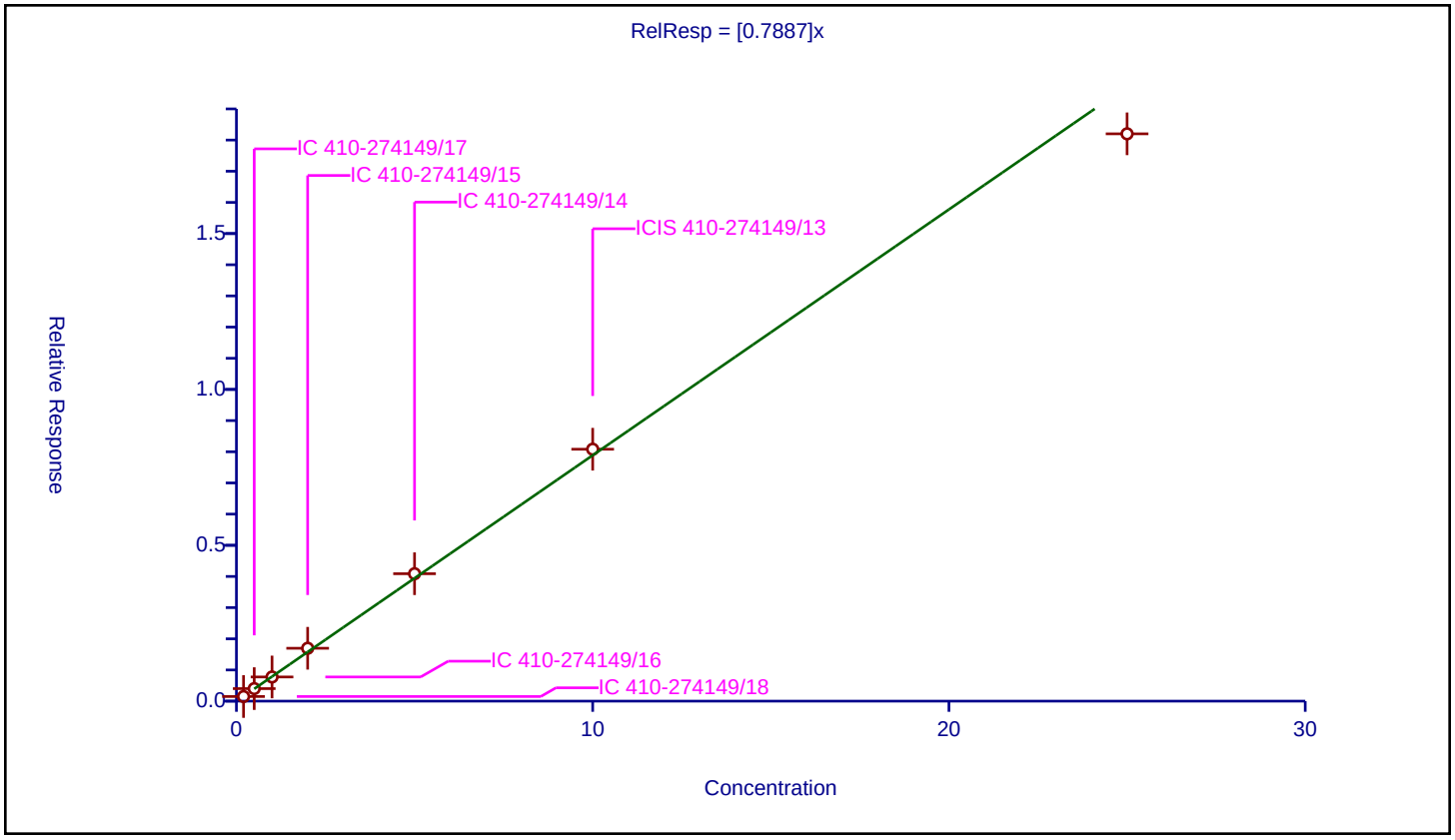
Curve Coefficients

Intercept:	0
Slope:	0.7887

Error Coefficients

Standard Error:	902000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-274149/18	0.2	0.147884	10.0	1000650.0	0.739419	Y
2	IC 410-274149/17	0.5	0.402102	10.0	974107.0	0.804203	Y
3	IC 410-274149/16	1.0	0.775254	10.0	992900.0	0.775254	Y
4	IC 410-274149/15	2.0	1.696556	10.0	997250.0	0.848278	Y
5	IC 410-274149/14	5.0	4.087845	10.0	1047322.0	0.817569	Y
6	ICIS 410-274149/13	10.0	8.081504	10.0	1051287.0	0.80815	Y
7	IC 410-274149/12	25.0	18.200467	10.0	1090322.0	0.728019	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-99372-1

SDG No.:

Lab Sample ID: ICV 410-288300/21 Calibration Date: 08/22/2022 23:10

Instrument ID: 10193 Calib Start Date: 08/22/2022 20:12

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/22/2022 22:26

Lab File ID: CG22X20.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	0.2854	0.2842	0.1000	4.98	5.00	-0.4	30.0
Chloromethane	Ave	0.3771	0.3566	0.1000	4.73	5.00	-5.4	30.0
Vinyl chloride	Ave	0.3499	0.3479	0.1000	4.97	5.00	-0.6	30.0
1,3-Butadiene	Ave	0.3741	0.3338		4.46	5.00	-10.8	30.0
Bromomethane	Ave	0.2328	0.2226	0.1000	4.78	5.00	-4.4	30.0
Chloroethane	Ave	0.2034	0.1964	0.1000	4.83	5.00	-3.4	30.0
Dichlorofluoromethane	Ave	0.4698	0.4781		5.09	5.00	1.8	30.0
Trichlorofluoromethane	Ave	0.3969	0.3996	0.1000	5.03	5.00	0.7	30.0
Ethyl ether	Ave	0.2035	0.2095		5.13	4.98	2.9	30.0
Freon 123a	Ave	0.3092	0.3058		4.95	5.00	-1.1	30.0
Acrolein	Ave	2.292	2.196		35.9	37.5	-4.2	30.0
1,1-Dichloroethene	Ave	0.2200	0.2431	0.1000	5.53	5.00	10.5	30.0
Acetone	Ave	2.576	2.212	0.1000	53.7	62.5	-14.1	30.0
Freon 113	Ave	0.2072	0.2389	0.1000	5.77	5.00	15.3	30.0
Methyl iodide	Ave	0.4049	0.4471		5.52	5.00	10.4	30.0
Ethyl bromide	Ave	0.2070	0.1864		4.40	4.89	-10.0	30.0
Carbon disulfide	Ave	0.6804	0.8401	0.1000	6.17	5.00	23.5	30.0
Methyl acetate	Ave	7.592	7.684	0.1000	5.06	5.00	1.2	30.0
Allyl chloride	Ave	0.4056	0.4511		5.56	5.00	11.2	30.0
Methylene Chloride	Ave	0.2608	0.2717	0.1000	5.21	5.00	4.2	30.0
t-Butyl alcohol	Ave	1.042	0.9534		45.7	50.0	-8.5	30.0
Acrylonitrile	Ave	3.878	3.885		25.0	25.0	0.2	30.0
Methyl tertiary butyl ether	Ave	0.6681	0.6920	0.1000	5.18	5.00	3.6	30.0
trans-1,2-Dichloroethene	Ave	0.2710	0.2797	0.1000	5.16	5.00	3.2	30.0
n-Hexane	Ave	0.3635	0.3831		5.27	5.00	5.4	30.0
1,1-Dichloroethane	Ave	0.4989	0.5052	0.2000	5.06	5.00	1.3	30.0
di-Isopropyl ether	Ave	0.9172	0.9321		5.08	5.00	1.6	30.0
2-Chloro-1,3-butadiene	Ave	0.3897	0.4239		5.44	5.00	8.8	30.0
Ethyl t-butyl ether	Ave	0.8471	0.8879		5.24	5.00	4.8	30.0
2-Butanone	Ave	5.255	5.268	0.1000	62.7	62.5	0.2	30.0
cis-1,2-Dichloroethene	Ave	0.2969	0.3142	0.1000	5.29	5.00	5.8	30.0
2,2-Dichloropropane	Ave	0.3940	0.4132		5.24	5.00	4.9	30.0
Propionitrile	Ave	1.308	1.255		36.0	37.5	-4.0	30.0
Methacrylonitrile	Ave	5.552	5.615		37.9	37.5	1.1	30.0
Bromochloromethane	Ave	0.1315	0.1360		5.17	5.00	3.4	30.0
Tetrahydrofuran	Ave	1.489	1.516		25.5	25.0	1.8	30.0
Chloroform	Ave	0.4701	0.4718	0.2000	5.02	5.00	0.4	30.0
1,1,1-Trichloroethane	Ave	0.4109	0.4176	0.1000	5.08	5.00	1.6	30.0
Cyclohexane	Ave	0.4623	0.4951	0.1000	5.35	5.00	7.1	30.0
Carbon tetrachloride	Ave	0.3450	0.3656	0.1000	5.30	5.00	6.0	30.0
1,1-Dichloropropene	Ave	0.3841	0.3935		5.12	5.00	2.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-99372-1

SDG No.:

Lab Sample ID: ICV 410-288300/21 Calibration Date: 08/22/2022 23:10

Instrument ID: 10193 Calib Start Date: 08/22/2022 20:12

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/22/2022 22:26

Lab File ID: CG22X20.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	0.3699	0.3322		112	125	-10.2	30.0
Benzene	Ave	1.151	1.169	0.5000	5.08	5.00	1.6	30.0
1,2-Dichloroethane	Ave	0.2916	0.2817	0.1000	4.83	5.00	-3.4	30.0
t-Amyl methyl ether	Ave	0.7640	0.7714		5.05	5.00	1.0	30.0
n-Heptane	Ave	0.4132	0.4172		5.05	5.00	1.0	30.0
n-Butanol	Ave	0.2966	0.2726		230	250	-8.1	30.0
Trichloroethene	Ave	0.2950	0.3015	0.2000	5.11	5.00	2.2	30.0
Methylcyclohexane	Ave	0.4906	0.5135	0.1000	5.23	5.00	4.7	30.0
1,2-Dichloropropane	Ave	0.3058	0.3067	0.1000	5.01	5.00	0.3	30.0
1,4-Dioxane	Qua		0.0627	0.0050	105	125	-15.6	30.0
Dibromomethane	Ave	0.1364	0.1353		4.96	5.00	-0.8	30.0
Methyl methacrylate	Ave	10.12	11.31		5.59	5.00	11.7	30.0
Bromodichloromethane	Ave	0.3358	0.3415	0.2000	5.08	5.00	1.7	30.0
2-Nitropropane	Ave	2.882	2.596		4.50	5.00	-9.9	30.0
1-Bromo-2-chloroethane	Ave	0.3050	0.3061		5.02	5.00	0.4	30.0
cis-1,3-Dichloropropene	Ave	0.4402	0.4513	0.2000	5.13	5.00	2.5	30.0
4-Methyl-2-pentanone	Ave	14.22	14.79	0.1000	65.0	62.5	4.0	30.0
Toluene	Ave	0.9723	0.9862	0.4000	5.07	5.00	1.4	30.0
trans-1,3-Dichloropropene	Ave	0.4678	0.5045	0.1000	5.39	5.00	7.8	30.0
Ethyl methacrylate	Ave	0.3782	0.3944		5.21	5.00	4.3	30.0
1,1,2-Trichloroethane	Ave	0.2693	0.2688	0.1000	4.99	5.00	-0.2	30.0
Tetrachloroethene	Ave	0.4530	0.4623	0.2000	5.10	5.00	2.1	30.0
1,3-Dichloropropane	Ave	0.4650	0.4721		5.08	5.00	1.5	30.0
2-Hexanone	Ave	10.07	10.81	0.1000	67.1	62.5	7.4	30.0
Dibromochloromethane	Ave	0.3217	0.3269		5.08	5.00	1.6	30.0
1,2-Dibromoethane	Ave	0.2534	0.2527	0.1000	4.99	5.00	-0.3	30.0
1-Chlorohexane	Ave	0.5542	0.5406		4.88	5.00	-2.5	30.0
Chlorobenzene	Ave	1.147	1.136	0.5000	4.95	5.00	-0.9	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3800	0.3842		5.06	5.00	1.1	30.0
Ethylbenzene	Ave	1.891	1.923	0.1000	5.08	5.00	1.7	30.0
m&p-Xylene	Ave	0.7579	0.7699	0.1000	10.2	10.0	1.6	30.0
o-Xylene	Ave	0.7529	0.7604	0.3000	5.05	5.00	1.0	30.0
Styrene	Ave	1.232	1.264	0.3000	5.13	5.00	2.6	30.0
Bromoform	Ave	0.1877	0.1917	0.1000	5.11	5.00	2.2	30.0
Isopropylbenzene	Ave	1.913	1.973	0.1000	5.16	5.00	3.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5912	0.5849	0.3000	4.95	5.00	-1.1	30.0
Bromobenzene	Ave	0.8315	0.8445		5.08	5.00	1.6	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1428	0.1407		24.6	25.0	-1.5	30.0
1,2,3-Trichloropropane	Ave	0.1547	0.1500		4.85	5.00	-3.0	30.0
N-Propylbenzene	Ave	3.986	3.968		4.98	5.00	-0.4	30.0
2-Chlorotoluene	Ave	0.8351	0.8268		4.95	5.00	-1.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-99372-1

SDG No.:

Lab Sample ID: ICV 410-288300/21 Calibration Date: 08/22/2022 23:10

Instrument ID: 10193 Calib Start Date: 08/22/2022 20:12

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/22/2022 22:26

Lab File ID: CG22X20.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	2.870	2.899		5.05	5.00	1.0	30.0
4-Chlorotoluene	Ave	0.8567	0.8718		5.09	5.00	1.8	30.0
tert-Butylbenzene	Ave	0.6329	0.6271		4.95	5.00	-0.9	30.0
Pentachloroethane	Ave	0.4781	0.5019		5.25	5.00	5.0	30.0
1,2,4-Trimethylbenzene	Ave	2.981	2.989		5.01	5.00	0.3	30.0
sec-Butylbenzene	Ave	3.648	3.771		5.17	5.00	3.4	30.0
1,3-Dichlorobenzene	Ave	1.705	1.684	0.6000	4.94	5.00	-1.2	30.0
p-Isopropyltoluene	Ave	3.247	3.316		5.11	5.00	2.1	30.0
1,4-Dichlorobenzene	Ave	1.741	1.735	0.5000	4.98	5.00	-0.3	30.0
1,2,3-Trimethylbenzene	Ave	1.359	1.335		4.91	5.00	-1.7	30.0
Benzyl chloride	Ave	0.2443	0.2441		4.99	5.00	-0.1	30.0
n-Butylbenzene	Ave	1.636	1.641		5.01	5.00	0.3	30.0
1,2-Dichlorobenzene	Ave	1.568	1.542	0.4000	4.92	5.00	-1.7	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0835	0.0824	0.0500	4.94	5.00	-1.2	30.0
1,3,5-Trichlorobenzene	Ave	1.343	1.346		5.01	5.00	0.2	30.0
1,2,4-Trichlorobenzene	Ave	1.132	1.144	0.2000	5.05	5.00	1.0	30.0
Hexachlorobutadiene	Ave	0.5847	0.5904		5.05	5.00	1.0	30.0
Naphthalene	Ave	1.801	1.869		5.19	5.00	3.8	30.0
1,2,3-Trichlorobenzene	Ave	0.9122	0.9437		5.17	5.00	3.5	30.0
Dibromofluoromethane (Surr)	Ave	0.2337	0.2337		10.0	10.0	-0.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0480	0.0470		9.78	10.0	-2.2	30.0
Toluene-d8 (Surr)	Ave	1.318	1.338		10.2	10.0	1.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4876	0.4886		10.0	10.0	0.2	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X20.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 22-Aug-2022 23:10:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0064657-021
Misc. Info.: ICV LG
Operator ID: knk41612 Instrument ID: 10193
Sublist:

Method: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 31-Aug-2022 08:31:04 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1647

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.757	1.764	-0.007	99	282292	5.00	4.98	
5 Chloromethane	50	1.934	1.940	-0.006	99	354285	5.00	4.73	
6 Vinyl chloride	62	2.038	2.038	0.000	98	345644	5.00	4.97	
7 Butadiene	39	2.044	2.050	-0.006	92	331620	5.00	4.46	
9 Bromomethane	94	2.331	2.331	0.000	90	221169	5.00	4.78	
10 Chloroethane	64	2.392	2.398	-0.006	100	195131	5.00	4.83	
11 Dichlorofluoromethane	67	2.611	2.617	-0.006	97	474895	5.00	5.09	
12 Trichlorofluoromethane	101	2.672	2.672	0.000	94	396941	5.00	5.03	
13 Pentane	43	2.678	2.678	0.000	97	432531	5.00	6.19	
15 Ethyl ether	59	2.861	2.861	0.000	91	207447	4.98	5.13	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.952	2.959	-0.007	93	303765	5.00	4.95	
17 Acrolein	56	3.013	3.013	0.000	99	197886	37.5	35.9	
19 1,1-Dichloroethene	96	3.129	3.135	-0.006	98	241473	5.00	5.53	
20 Acetone	43	3.160	3.166	-0.006	92	332224	62.5	53.7	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.172	3.178	-0.006	91	237340	5.00	5.77	
22 Iodomethane	142	3.300	3.300	0.000	97	444106	5.00	5.52	
23 Isopropyl alcohol	45	3.306	3.318	-0.012	29	47539	37.5	34.8	
24 Ethyl bromide	108	3.324	3.324	0.000	98	180913	4.89	4.40	
25 Carbon disulfide	76	3.391	3.391	0.000	99	834493	5.00	6.17	
27 Methyl acetate	43	3.525	3.532	-0.007	96	92316	5.00	5.06	
28 3-Chloro-1-propene	41	3.544	3.544	0.000	93	448073	5.00	5.56	
29 Methylene Chloride	84	3.708	3.708	0.000	94	269871	5.00	5.21	
* 30 t-Butyl alcohol-d10 (IS)	65	3.739	3.745	-0.006	44	120148	50.0	50.0	
31 2-Methyl-2-propanol	59	3.842	3.849	-0.007	99	114545	50.0	45.7	
32 Acrylonitrile	53	4.013	4.019	-0.006	99	233374	25.0	25.0	
33 Methyl tert-butyl ether	73	4.062	4.068	-0.006	95	687379	5.00	5.18	
34 trans-1,2-Dichloroethene	96	4.068	4.074	-0.006	99	277861	5.00	5.16	
35 Hexane	57	4.470	4.470	0.000	93	380592	5.00	5.27	
36 1,1-Dichloroethane	63	4.720	4.720	0.000	96	501807	5.00	5.06	
38 Isopropyl ether	45	4.781	4.787	-0.006	95	925912	5.00	5.08	
39 2-Chloro-1,3-butadiene	53	4.830	4.830	0.000	90	421079	5.00	5.44	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.330	5.330	0.000	98	882019	5.00	5.24	
41 2-Butanone (MEK)	43	5.543	5.543	0.000	100	791133	62.5	62.7	
42 cis-1,2-Dichloroethene	96	5.574	5.574	0.000	83	312149	5.00	5.29	
43 2,2-Dichloropropane	77	5.586	5.586	0.000	86	410431	5.00	5.24	
45 Propionitrile	54	5.641	5.635	0.006	97	113129	37.5	36.0	
46 Methacrylonitrile	67	5.854	5.860	-0.006	92	505945	37.5	37.9	
47 Chlorobromomethane	128	5.915	5.909	0.006	94	135066	5.00	5.17	
48 Tetrahydrofuran	71	5.915	5.927	-0.012	66	91079	25.0	25.5	
50 Chloroform	83	6.074	6.074	0.000	93	468690	5.00	5.02	
52 1,1,1-Trichloroethane	97	6.281	6.293	-0.012	82	414861	5.00	5.08	
$ 53 Dibromofluoromethane (Surr)	113	6.293	6.293	0.000	94	464280	10.0	10.0	
54 Cyclohexane	56	6.379	6.385	-0.006	91	491809	5.00	5.35	
55 Carbon tetrachloride	117	6.500	6.501	-0.001	95	363172	5.00	5.30	
56 1,1-Dichloropropene	75	6.507	6.513	-0.006	98	390936	5.00	5.12	
57 Isobutyl alcohol	41	6.714	6.708	0.006	93	99780	125.0	112.3	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.750	6.757	-0.007	95	93323	10.0	9.78	
59 Benzene	78	6.775	6.775	0.000	97	1161595	5.00	5.08	
61 1,2-Dichloroethane	62	6.854	6.860	-0.006	97	279852	5.00	4.83	
63 Tert-amyl methyl ether	73	6.982	6.982	0.000	99	766266	5.00	5.05	
* 64 Fluorobenzene (IS)	96	7.189	7.196	-0.007	98	1986750	10.0	10.0	
65 n-Heptane	43	7.208	7.208	0.000	93	414477	5.00	5.05	
66 n-Butanol	56	7.628	7.622	0.006	89	163781	250.0	229.8	
67 Trichloroethene	95	7.683	7.683	0.000	97	299491	5.00	5.11	
68 Methylcyclohexane	83	7.982	7.982	0.000	90	510062	5.00	5.23	
69 1,2-Dichloropropane	63	8.018	8.025	-0.007	98	304632	5.00	5.01	
70 2-ethoxy-2-methyl butane	87	8.043	8.043	0.000	93	456153	5.00	5.15	
71 Methyl methacrylate	69	8.128	8.128	0.000	93	135909	5.00	5.59	
72 1,4-Dioxane	88	8.122	8.134	-0.012	28	18820	125.0	105.5	M
73 Dibromomethane	93	8.128	8.134	-0.006	89	134407	5.00	4.96	
75 Dichlorobromomethane	83	8.378	8.384	-0.006	99	339287	5.00	5.08	
76 2-Nitropropane	41	8.665	8.665	0.000	97	31188	5.00	4.50	
78 1-Bromo-2-chloroethane	63	8.774	8.774	0.000	98	304063	5.00	5.02	
79 cis-1,3-Dichloropropene	75	8.951	8.951	0.000	97	448279	5.00	5.13	
81 4-Methyl-2-pentanone (MIBK)	43	9.152	9.159	-0.007	96	2221203	62.5	65.0	
$ 82 Toluene-d8 (Surr)	98	9.280	9.280	0.000	93	2032411	10.0	10.2	
83 Toluene	92	9.366	9.366	0.000	98	749022	5.00	5.07	
84 trans-1,3-Dichloropropene	75	9.658	9.658	0.000	92	383163	5.00	5.39	
85 Ethyl methacrylate	69	9.738	9.738	0.000	90	299555	5.00	5.21	
86 1,1,2-Trichloroethane	97	9.872	9.872	0.000	90	204141	5.00	4.99	
87 Tetrachloroethene	166	9.951	9.951	0.000	97	351097	5.00	5.10	
102 1,3-Dichloropropane	76	10.042	10.043	0.000	90	358561	5.00	5.08	
104 2-Hexanone	43	10.116	10.116	0.000	96	1624164	62.5	67.1	
106 Chlorodibromomethane	129	10.268	10.268	0.000	90	248296	5.00	5.08	
107 Ethylene Dibromide	107	10.378	10.378	0.000	98	191889	5.00	4.99	
* 108 Chlorobenzene-d5 (IS)	117	10.835	10.835	0.000	84	1518942	10.0	10.0	
109 1-Chlorohexane	91	10.853	10.853	0.000	98	410596	5.00	4.88	
110 Chlorobenzene	112	10.859	10.859	0.000	96	863044	5.00	4.95	
111 1,1,1,2-Tetrachloroethane	131	10.951	10.951	0.000	96	291817	5.00	5.06	
112 Ethylbenzene	91	10.951	10.957	-0.006	98	1460417	5.00	5.08	
113 m-Xylene & p-Xylene	106	11.073	11.079	-0.006	100	1169412	10.0	10.2	
115 o-Xylene	106	11.414	11.414	0.000	97	577534	5.00	5.05	
116 Styrene	104	11.432	11.432	0.000	95	960321	5.00	5.13	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
117 Bromoform	173	11.591	11.591	0.000	98	145618	5.00	5.11	
118 Isopropylbenzene	105	11.725	11.725	0.000	95	1498286	5.00	5.16	
$ 121 4-Bromofluorobenzene (Surr)	95	11.871	11.871	0.000	92	742222	10.0	10.0	
123 1,1,2,2-Tetrachloroethane	83	11.987	11.987	0.000	69	258034	5.00	4.95	
122 Bromobenzene	156	11.987	11.987	0.000	91	372540	5.00	5.08	
124 trans-1,4-Dichloro-2-butene	53	12.012	12.012	0.000	89	310247	25.0	24.6	
125 1,2,3-Trichloropropane	110	12.030	12.030	0.000	80	66152	5.00	4.85	
126 N-Propylbenzene	91	12.066	12.067	0.000	99	1750582	5.00	4.98	
127 2-Chlorotoluene	126	12.140	12.140	0.000	97	364744	5.00	4.95	
128 1,3,5-Trimethylbenzene	105	12.207	12.207	0.000	94	1278875	5.00	5.05	
129 4-Chlorotoluene	126	12.237	12.237	0.000	97	384610	5.00	5.09	
130 tert-Butylbenzene	134	12.451	12.451	0.000	93	276627	5.00	4.95	
131 Pentachloroethane	167	12.481	12.481	0.000	94	221423	5.00	5.25	
132 1,2,4-Trimethylbenzene	105	12.499	12.493	0.006	97	1318577	5.00	5.01	
133 sec-Butylbenzene	105	12.621	12.621	0.000	94	1663676	5.00	5.17	
134 1,3-Dichlorobenzene	146	12.719	12.719	0.000	98	742740	5.00	4.94	
135 4-Isopropyltoluene	119	12.731	12.731	0.000	97	1462889	5.00	5.11	
* 136 1,4-Dichlorobenzene-d4	152	12.774	12.774	0.000	93	882310	10.0	10.0	
137 1,4-Dichlorobenzene	146	12.792	12.792	0.000	96	765302	5.00	4.98	
138 1,2,3-Trimethylbenzene	120	12.804	12.804	0.000	98	588910	5.00	4.91	
139 Benzyl chloride	126	12.877	12.877	0.000	98	107673	5.00	4.99	
140 n-Butylbenzene	92	13.030	13.030	0.000	98	723776	5.00	5.01	
141 1,2-Dichlorobenzene	146	13.054	13.054	0.000	99	680239	5.00	4.92	
142 p-Diethylbenzene	119	13.085	13.085	0.000	86	727997	5.00	4.98	
145 1,2-Dibromo-3-Chloropropane	155	13.609	13.609	0.000	89	36358	5.00	4.94	
146 1,3,5-Trichlorobenzene	180	13.737	13.737	0.000	98	593651	5.00	5.01	
147 1,2,4-Trichlorobenzene	180	14.164	14.164	0.000	94	504730	5.00	5.05	
148 Hexachlorobutadiene	225	14.249	14.249	0.000	97	260470	5.00	5.05	
149 Naphthalene	128	14.346	14.347	-0.001	96	824478	5.00	5.19	
150 1,2,3-Trichlorobenzene	180	14.493	14.493	0.000	96	416330	5.00	5.17	
151 2-Methylnaphthalene	142	15.096	15.090	0.006	92	420238	5.00	5.60	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00069	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00096	Amount Added:	12.50	Units: uL	
MSV_LCS_EE_00003	Amount Added:	12.50	Units: uL	
LCS_ETBR_00003	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00072	Amount Added:	12.50	Units: uL	
MSV_LCS_Penta_00019	Amount Added:	12.50	Units: uL	
MSV_HP25_ISSS_00058	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 31-Aug-2022 08:31:04 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X20.D

Injection Date: 22-Aug-2022 23:10:30 Instrument ID: 10193 Operator ID: knk41612

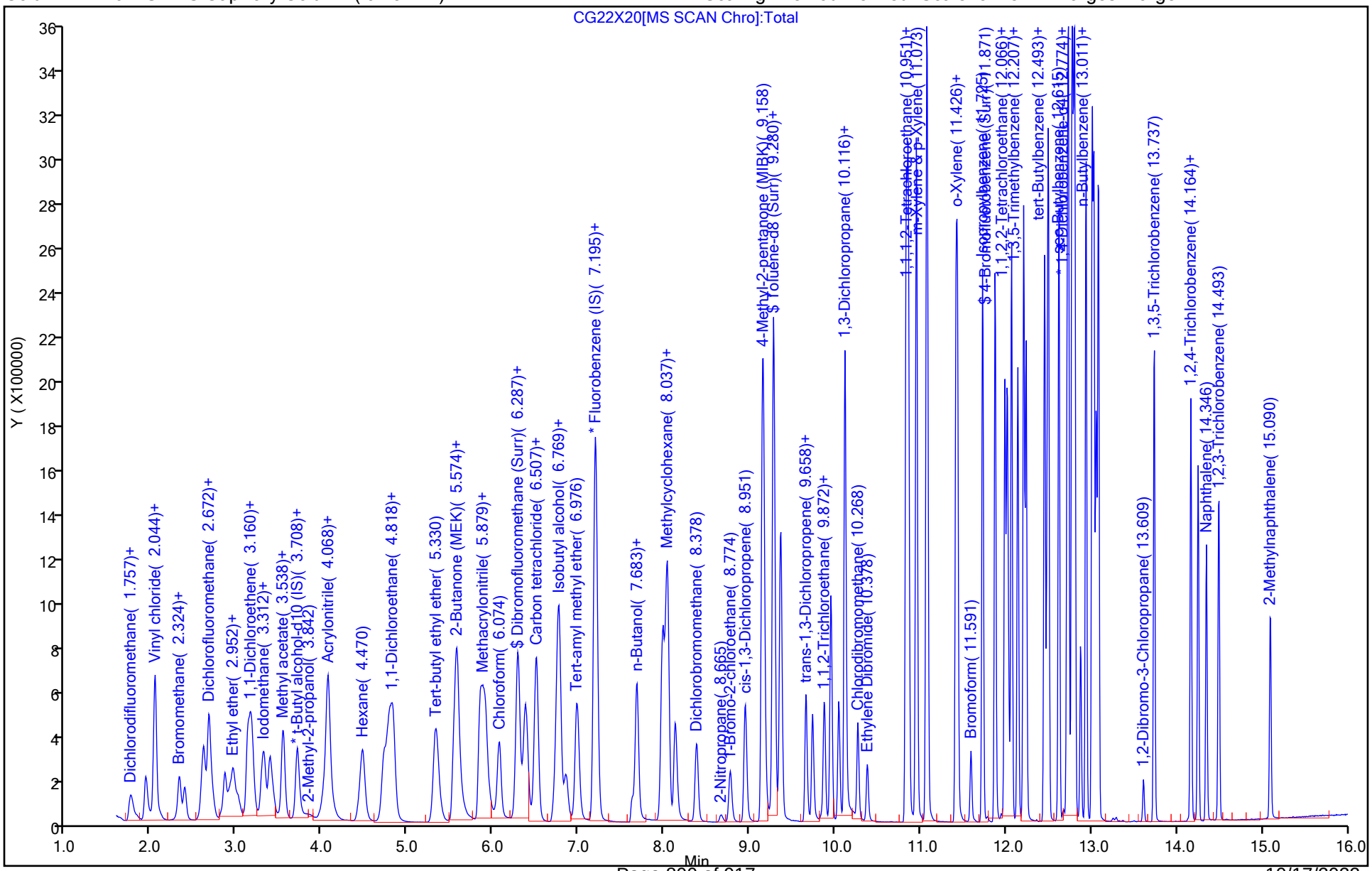
Lims ID: ICV Worklist Smp#: 21

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 20

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

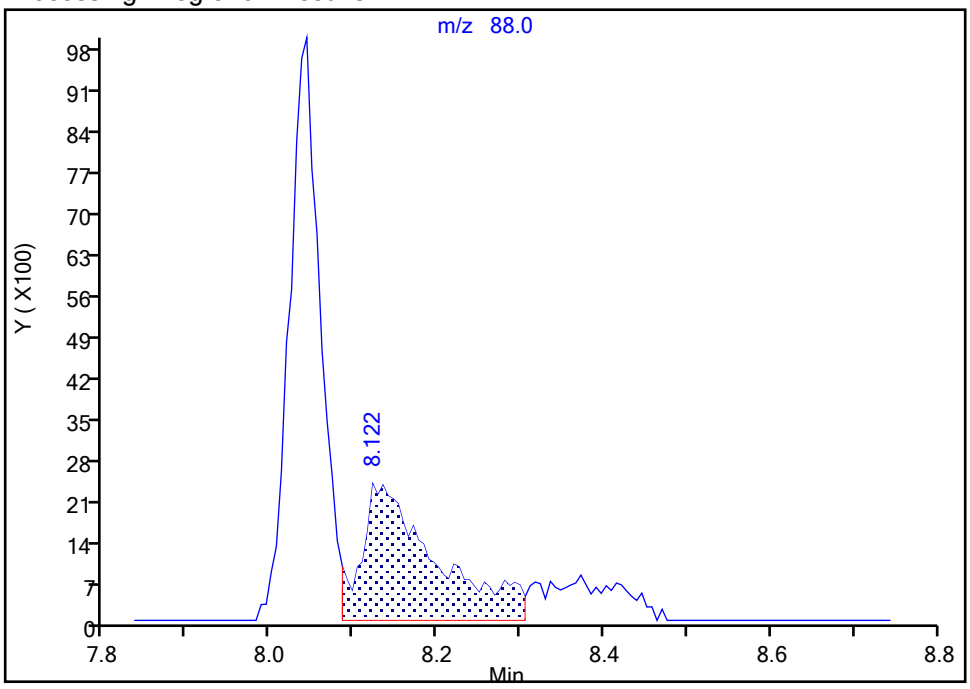
Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X20.D				
Injection Date:	22-Aug-2022 23:10:30	Instrument ID:	10193		
Lims ID:	ICV				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

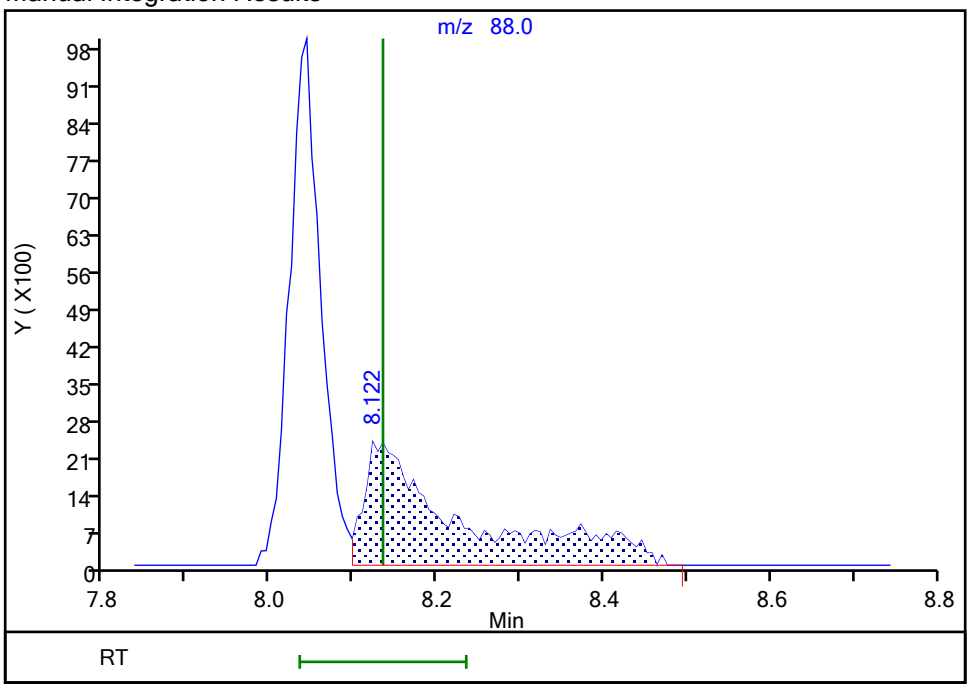
Processing Integration Results

RT: 8.12
Area: 14511
Amount: 81.928582
Amount Units: ug/l



Manual Integration Results

RT: 8.12
Area: 18820
Amount: 105.4887
Amount Units: ug/l



Reviewer: DVW2, 23-Aug-2022 09:33:51
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.: 410-99372-1

SDG No.:

Lab Sample ID: CCVIS 410-304184/3 Calibration Date: 10/07/2022 11:17

Instrument ID: 10193 Calib Start Date: 08/22/2022 20:12

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/22/2022 22:26

Lab File ID: CC07X02.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	0.2854	0.3231	0.1000	11.3	10.0	13.2	20.0
Chloromethane	Ave	0.3771	0.4255	0.1000	11.3	10.0	12.8	20.0
1,3-Butadiene	Ave	0.3741	0.8400		22.5	10.0	124.5*	20.0
Vinyl chloride	Ave	0.3499	0.3473	0.1000	9.93	10.0	-0.7	20.0
Bromomethane	Ave	0.2328	0.2365	0.1000	10.2	10.0	1.6	20.0
Chloroethane	Ave	0.2034	0.1962	0.1000	9.65	10.0	-3.5	20.0
Dichlorofluoromethane	Ave	0.4698	0.4488		9.55	10.0	-4.5	20.0
Trichlorofluoromethane	Ave	0.3969	0.3782	0.1000	9.53	10.0	-4.7	20.0
Ethyl ether	Ave	0.2035	0.2069		10.2	10.0	1.7	20.0
Freon 123a	Ave	0.3092	0.2836		9.17	10.0	-8.3	20.0
Acrolein	Ave	2.292	2.147		468	500	-6.3	20.0
1,1-Dichloroethene	Ave	0.2200	0.2286	0.1000	10.4	10.0	3.9	20.0
Acetone	Ave	2.576	2.472	0.1000	96.0	100	-4.0	20.0
Freon 113	Ave	0.2072	0.2222	0.1000	10.7	10.0	7.2	20.0
Methyl iodide	Ave	0.4049	0.4518		11.2	10.0	11.6	20.0
Ethyl bromide	Ave	0.2070	0.2162		10.4	10.0	4.4	20.0
Carbon disulfide	Ave	0.6804	0.7981	0.1000	11.7	10.0	17.3	20.0
Methyl acetate	Ave	7.592	8.170	0.1000	10.8	10.0	7.6	20.0
Allyl chloride	Ave	0.4056	0.3495		8.62	10.0	-13.8	20.0
Methylene Chloride	Ave	0.2608	0.2603	0.1000	9.98	10.0	-0.2	20.0
t-Butyl alcohol	Ave	1.042	0.9260		178	200	-11.1	20.0
Acrylonitrile	Ave	3.878	3.862		24.9	25.0	-0.4	20.0
Methyl tertiary butyl ether	Ave	0.6681	0.6563	0.1000	9.82	10.0	-1.8	20.0
trans-1,2-Dichloroethene	Ave	0.2710	0.2775	0.1000	10.2	10.0	2.4	20.0
n-Hexane	Ave	0.3635	0.3452		9.50	10.0	-5.0	20.0
1,1-Dichloroethane	Ave	0.4989	0.4810	0.2000	9.64	10.0	-3.6	20.0
di-Isopropyl ether	Ave	0.9172	0.8405		9.16	10.0	-8.4	20.0
2-Chloro-1,3-butadiene	Ave	0.3897	0.3619		9.29	10.0	-7.1	20.0
Ethyl t-butyl ether	Ave	0.8471	0.7930		9.36	10.0	-6.4	20.0
2-Butanone	Ave	5.255	5.339	0.1000	102	100	1.6	20.0
cis-1,2-Dichloroethene	Ave	0.2969	0.3054	0.1000	10.3	10.0	2.8	20.0
2,2-Dichloropropane	Ave	0.3940	0.3923		9.96	10.0	-0.4	20.0
Propionitrile	Ave	1.308	1.402		214	200	7.2	20.0
Methacrylonitrile	Ave	5.552	5.913		107	100	6.5	20.0
Bromochloromethane	Ave	0.1315	0.1434		10.9	10.0	9.0	20.0
Tetrahydrofuran	Ave	1.489	1.581		53.1	50.0	6.2	20.0
Chloroform	Ave	0.4701	0.4662	0.2000	9.92	10.0	-0.8	20.0
1,1,1-Trichloroethane	Ave	0.4109	0.4130	0.1000	10.1	10.0	0.5	20.0
Cyclohexane	Ave	0.4623	0.4337	0.1000	9.38	10.0	-6.2	20.0
1,1-Dichloropropene	Ave	0.3841	0.3747		9.76	10.0	-2.4	20.0
Carbon tetrachloride	Ave	0.3450	0.3658	0.1000	10.6	10.0	6.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-99372-1

SDG No.:

Lab Sample ID: CCVIS 410-304184/3 Calibration Date: 10/07/2022 11:17

Instrument ID: 10193 Calib Start Date: 08/22/2022 20:12

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/22/2022 22:26

Lab File ID: CC07X02.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	0.3699	0.3412		461	500	-7.8	20.0
Benzene	Ave	1.151	1.143	0.5000	9.93	10.0	-0.7	20.0
1,2-Dichloroethane	Ave	0.2916	0.2785	0.1000	9.55	10.0	-4.5	20.0
t-Amyl methyl ether	Ave	0.7640	0.7347		9.62	10.0	-3.8	20.0
n-Heptane	Ave	0.4132	0.3943		9.54	10.0	-4.6	20.0
n-Butanol	Ave	0.2966	0.3363		992	875	13.4	20.0
Trichloroethene	Ave	0.2950	0.3061	0.2000	10.4	10.0	3.8	20.0
Methylcyclohexane	Ave	0.4906	0.4735	0.1000	9.65	10.0	-3.5	20.0
1,2-Dichloropropane	Ave	0.3058	0.2993	0.1000	9.79	10.0	-2.1	20.0
1,4-Dioxane	Qua		0.0744	0.0050	525	500	4.9	20.0
Dibromomethane	Ave	0.1364	0.1428		10.5	10.0	4.7	20.0
Methyl methacrylate	Ave	10.12	10.96		10.8	10.0	8.3	20.0
Bromodichloromethane	Ave	0.3358	0.3411	0.2000	10.2	10.0	1.6	20.0
2-Nitropropane	Ave	2.882	2.897		50.3	50.0	0.5	20.0
1-Bromo-2-chloroethane	Ave	0.3050	0.3213		10.5	10.0	5.3	20.0
cis-1,3-Dichloropropene	Ave	0.4402	0.4297	0.2000	9.76	10.0	-2.4	20.0
4-Methyl-2-pentanone	Ave	14.22	14.62	0.1000	103	100	2.9	20.0
Toluene	Ave	0.9723	0.9176	0.4000	9.44	10.0	-5.6	20.0
trans-1,3-Dichloropropene	Ave	0.4678	0.4208	0.1000	9.00	10.0	-10.0	20.0
Ethyl methacrylate	Ave	0.3782	0.3658		9.67	10.0	-3.3	20.0
1,1,2-Trichloroethane	Ave	0.2693	0.2639	0.1000	9.80	10.0	-2.0	20.0
Tetrachloroethene	Ave	0.4530	0.4625	0.2000	10.2	10.0	2.1	20.0
1,3-Dichloropropane	Ave	0.4650	0.4414		9.49	10.0	-5.1	20.0
2-Hexanone	Ave	10.07	10.79	0.1000	107	100	7.2	20.0
Dibromochloromethane	Ave	0.3217	0.3323		10.3	10.0	3.3	20.0
1,2-Dibromoethane	Ave	0.2534	0.2647	0.1000	10.4	10.0	4.5	20.0
1-Chlorohexane	Ave	0.5542	0.5181		9.35	10.0	-6.5	20.0
Chlorobenzene	Ave	1.147	1.114	0.5000	9.71	10.0	-2.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3800	0.3912		10.3	10.0	3.0	20.0
Ethylbenzene	Ave	1.891	1.815	0.1000	9.60	10.0	-4.0	20.0
m&p-Xylene	Ave	0.7579	0.7351	0.1000	19.4	20.0	-3.0	20.0
o-Xylene	Ave	0.7529	0.7231	0.3000	9.60	10.0	-4.0	20.0
Styrene	Ave	1.232	1.198	0.3000	9.72	10.0	-2.8	20.0
Bromoform	Ave	0.1877	0.2075	0.1000	11.1	10.0	10.6	20.0
Isopropylbenzene	Ave	1.913	1.842	0.1000	9.63	10.0	-3.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5912	0.5292	0.3000	8.95	10.0	-10.5	20.0
Bromobenzene	Ave	0.8315	0.8022		9.65	10.0	-3.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1428	0.0177		12.4	100	-87.6*	20.0
1,2,3-Trichloropropane	Ave	0.1547	0.1397		9.03	10.0	-9.7	20.0
N-Propylbenzene	Ave	3.986	3.511		8.81	10.0	-11.9	20.0
2-Chlorotoluene	Ave	0.8351	0.7792		9.33	10.0	-6.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-99372-1

SDG No.:

Lab Sample ID: CCVIS 410-304184/3 Calibration Date: 10/07/2022 11:17

Instrument ID: 10193 Calib Start Date: 08/22/2022 20:12

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/22/2022 22:26

Lab File ID: CC07X02.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	2.870	2.570		8.95	10.0	-10.5	20.0
4-Chlorotoluene	Ave	0.8567	0.8155		9.52	10.0	-4.8	20.0
tert-Butylbenzene	Ave	0.6329	0.6241		9.86	10.0	-1.4	20.0
Pentachloroethane	Ave	0.4781	0.5055		10.6	10.0	5.7	20.0
1,2,4-Trimethylbenzene	Ave	2.981	2.687		9.01	10.0	-9.9	20.0
sec-Butylbenzene	Ave	3.648	3.274		8.97	10.0	-10.3	20.0
1,3-Dichlorobenzene	Ave	1.705	1.633	0.6000	9.58	10.0	-4.2	20.0
p-Isopropyltoluene	Ave	3.247	3.007		9.26	10.0	-7.4	20.0
1,4-Dichlorobenzene	Ave	1.741	1.654	0.5000	9.50	10.0	-5.0	20.0
1,2,3-Trimethylbenzene	Ave	1.359	1.231		9.06	10.0	-9.4	20.0
Benzyl chloride	Ave	0.2443	0.2617		10.7	10.0	7.1	20.0
n-Butylbenzene	Ave	1.636	1.465		8.95	10.0	-10.5	20.0
1,2-Dichlorobenzene	Ave	1.568	1.485	0.4000	9.47	10.0	-5.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0835	0.0841	0.0500	10.1	10.0	0.7	20.0
1,3,5-Trichlorobenzene	Ave	1.343	1.347		10.0	10.0	0.3	20.0
1,2,4-Trichlorobenzene	Ave	1.132	1.120	0.2000	9.89	10.0	-1.1	20.0
Hexachlorobutadiene	Ave	0.5847	0.5930		10.1	10.0	1.4	20.0
Naphthalene	Ave	1.801	1.675		9.30	10.0	-7.0	20.0
1,2,3-Trichlorobenzene	Ave	0.9122	0.8740		9.58	10.0	-4.2	20.0
Dibromofluoromethane (Surr)	Ave	0.2337	0.2472		10.6	10.0	5.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0480	0.0499		10.4	10.0	3.8	20.0
Toluene-d8 (Surr)	Ave	1.318	1.258		9.55	10.0	-4.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4876	0.4711		9.66	10.0	-3.4	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20221007-68180.b\CC07X02.D
Lims ID: CCVIS VSTD10
Client ID:
Sample Type: CCVIS
Inject. Date: 07-Oct-2022 11:17:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0068180-003
Misc. Info.: CCVIS VSTD10
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20221007-68180.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Oct-2022 12:09:46 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1660

First Level Reviewer: DVW2 Date: 07-Oct-2022 12:05:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.745	1.745	0.000	99	699787	10.0	11.3	
5 Chloromethane	50	1.922	1.922	0.000	99	921571	10.0	11.3	
6 Vinyl chloride	62	2.020	2.020	0.000	83	752221	10.0	9.93	
7 Butadiene	39	2.020	2.020	0.000	91	1819261	10.0	22.5	
9 Bromomethane	94	2.312	2.312	0.000	89	512095	10.0	10.2	
10 Chloroethane	64	2.379	2.379	0.000	100	424968	10.0	9.65	
11 Dichlorofluoromethane	67	2.593	2.593	0.000	97	972003	10.0	9.55	
12 Trichlorofluoromethane	101	2.648	2.648	0.000	99	819154	10.0	9.53	
13 Pentane	43	2.654	2.654	0.000	97	757372	10.0	9.94	
15 Ethyl ether	59	2.837	2.837	0.000	92	448212	10.0	10.2	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.934	2.934	0.000	91	614148	10.0	9.17	
17 Acrolein	56	2.989	2.989	0.000	100	2895872	500.0	468.3	
19 1,1-Dichloroethene	96	3.105	3.105	0.000	97	495031	10.0	10.4	
20 Acetone	43	3.135	3.135	0.000	99	666980	100.0	96.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.148	3.148	0.000	89	481189	10.0	10.7	
22 Iodomethane	142	3.276	3.276	0.000	97	978441	10.0	11.2	
23 Isopropyl alcohol	45	3.288	3.288	0.000	37	305774	200.0	199.3	
24 Ethyl bromide	108	3.300	3.300	0.000	98	468201	10.0	10.4	
25 Carbon disulfide	76	3.361	3.361	0.000	99	1728453	10.0	11.7	
27 Methyl acetate	43	3.495	3.495	0.000	97	220426	10.0	10.8	
28 3-Chloro-1-propene	41	3.519	3.519	0.000	94	756919	10.0	8.62	
29 Methylene Chloride	84	3.678	3.678	0.000	92	563639	10.0	9.98	
* 30 t-Butyl alcohol-d10 (IS)	65	3.708	3.708	0.000	98	134898	50.0	50.0	
31 2-Methyl-2-propanol	59	3.818	3.818	0.000	100	499647	200.0	177.7	
32 Acrylonitrile	53	3.983	3.983	0.000	98	260457	25.0	24.9	
33 Methyl tert-butyl ether	73	4.032	4.032	0.000	95	1421287	10.0	9.82	
34 trans-1,2-Dichloroethene	96	4.038	4.038	0.000	100	601030	10.0	10.2	
35 Hexane	57	4.440	4.440	0.000	92	747676	10.0	9.50	
36 1,1-Dichloroethane	63	4.684	4.684	0.000	96	1041701	10.0	9.64	
38 Isopropyl ether	45	4.745	4.745	0.000	95	1820390	10.0	9.16	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Chloro-1,3-butadiene	53	4.794	4.794	0.000	89	783738	10.0	9.29	
40 Tert-butyl ethyl ether	59	5.293	5.293	0.000	97	1717515	10.0	9.36	
41 2-Butanone (MEK)	43	5.519	5.519	0.000	100	1440344	100.0	101.6	
42 cis-1,2-Dichloroethene	96	5.537	5.537	0.000	82	661312	10.0	10.3	
43 2,2-Dichloropropane	77	5.550	5.550	0.000	86	849596	10.0	9.96	
45 Propionitrile	54	5.604	5.604	0.000	99	756735	200.0	214.5	
46 Methacrylonitrile	67	5.824	5.824	0.000	91	1595424	100.0	106.5	
47 Chlorobromomethane	128	5.873	5.873	0.000	92	310486	10.0	10.9	
48 Tetrahydrofuran	71	5.891	5.891	0.000	91	213262	50.0	53.1	
50 Chloroform	83	6.037	6.037	0.000	93	1009738	10.0	9.92	
$ 53 Dibromofluoromethane (Surr)	113	6.257	6.257	0.000	82	535341	10.0	10.6	
52 1,1,1-Trichloroethane	97	6.257	6.257	0.000	98	894541	10.0	10.1	
54 Cyclohexane	56	6.348	6.348	0.000	90	939252	10.0	9.38	
55 Carbon tetrachloride	117	6.470	6.470	0.000	96	792245	10.0	10.6	
56 1,1-Dichloropropene	75	6.470	6.470	0.000	98	811581	10.0	9.76	
57 Isobutyl alcohol	41	6.690	6.690	0.000	96	460207	500.0	461.1	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.714	6.714	0.000	98	108034	10.0	10.4	
59 Benzene	78	6.738	6.738	0.000	97	2474939	10.0	9.93	
61 1,2-Dichloroethane	62	6.818	6.818	0.000	97	603202	10.0	9.55	
63 Tert-amyl methyl ether	73	6.952	6.952	0.000	99	1591205	10.0	9.62	
* 64 Fluorobenzene (IS)	96	7.159	7.159	0.000	99	2165716	10.0	10.0	
65 n-Heptane	43	7.177	7.177	0.000	92	854024	10.0	9.54	
66 n-Butanol	56	7.604	7.604	0.000	87	793976	875.0	992.2	
67 Trichloroethene	95	7.647	7.647	0.000	95	662956	10.0	10.4	
68 Methylcyclohexane	83	7.951	7.951	0.000	91	1025385	10.0	9.65	
69 1,2-Dichloropropane	63	7.988	7.988	0.000	97	648095	10.0	9.79	
70 2-ethoxy-2-methyl butane	87	8.012	8.012	0.000	94	934268	10.0	9.68	
72 1,4-Dioxane	88	8.098	8.098	0.000	33	100323	500.0	524.5	
71 Methyl methacrylate	69	8.098	8.098	0.000	95	295706	10.0	10.8	
73 Dibromomethane	93	8.098	8.098	0.000	92	309195	10.0	10.5	
75 Dichlorobromomethane	83	8.348	8.348	0.000	99	738687	10.0	10.2	
76 2-Nitropropane	41	8.634	8.634	0.000	97	390795	50.0	50.3	
78 1-Bromo-2-chloroethane	63	8.744	8.744	0.000	98	695841	10.0	10.5	
79 cis-1,3-Dichloropropene	75	8.921	8.921	0.000	97	930616	10.0	9.76	
81 4-Methyl-2-pentanone (MIBK)	43	9.128	9.128	0.000	96	3945664	100.0	102.9	
$ 82 Toluene-d8 (Surr)	98	9.256	9.256	0.000	93	2257962	10.0	9.55	
83 Toluene	92	9.335	9.335	0.000	98	1646524	10.0	9.44	
84 trans-1,3-Dichloropropene	75	9.634	9.634	0.000	91	755125	10.0	9.00	
85 Ethyl methacrylate	69	9.713	9.713	0.000	89	656348	10.0	9.67	
86 1,1,2-Trichloroethane	97	9.847	9.847	0.000	89	473567	10.0	9.80	
87 Tetrachloroethene	166	9.927	9.927	0.000	97	829935	10.0	10.2	
102 1,3-Dichloropropane	76	10.018	10.018	0.000	89	792126	10.0	9.49	
104 2-Hexanone	43	10.091	10.091	0.000	96	2911355	100.0	107.2	
106 Chlorodibromomethane	129	10.244	10.244	0.000	90	596297	10.0	10.3	
107 Ethylene Dibromide	107	10.353	10.353	0.000	99	474991	10.0	10.4	
* 108 Chlorobenzene-d5 (IS)	117	10.811	10.811	0.000	82	1794432	10.0	10.0	
109 1-Chlorohexane	91	10.829	10.829	0.000	97	929695	10.0	9.35	
110 Chlorobenzene	112	10.841	10.841	0.000	99	1998117	10.0	9.71	
111 1,1,1,2-Tetrachloroethane	131	10.927	10.927	0.000	96	701938	10.0	10.3	
112 Ethylbenzene	91	10.933	10.933	0.000	97	3256353	10.0	9.60	
113 m-Xylene & p-Xylene	106	11.055	11.055	0.000	99	2638261	20.0	19.4	
115 o-Xylene	106	11.396	11.396	0.000	96	1297609	10.0	9.60	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 Styrene	104	11.414	11.414	0.000	95	2149010	10.0	9.72	
117 Bromoform	173	11.573	11.573	0.000	99	372400	10.0	11.1	
118 Isopropylbenzene	105	11.707	11.707	0.000	95	3304886	10.0	9.63	
$ 121 4-Bromofluorobenzene (Surr)	95	11.853	11.853	0.000	98	845418	10.0	9.66	
122 Bromobenzene	156	11.969	11.969	0.000	92	894673	10.0	9.65	
123 1,1,2,2-Tetrachloroethane	83	11.969	11.969	0.000	92	590233	10.0	8.95	
124 trans-1,4-Dichloro-2-butene	53	11.993	11.993	0.000	86	197593	100.0	12.4	
125 1,2,3-Trichloropropane	110	12.012	12.012	0.000	83	155789	10.0	9.03	
126 N-Propylbenzene	91	12.048	12.048	0.000	98	3916145	10.0	8.81	
127 2-Chlorotoluene	126	12.121	12.121	0.000	98	869083	10.0	9.33	
128 1,3,5-Trimethylbenzene	105	12.188	12.188	0.000	94	2866324	10.0	8.95	
129 4-Chlorotoluene	126	12.219	12.219	0.000	95	909550	10.0	9.52	
130 tert-Butylbenzene	134	12.432	12.432	0.000	92	696078	10.0	9.86	
131 Pentachloroethane	167	12.463	12.463	0.000	94	563741	10.0	10.6	
132 1,2,4-Trimethylbenzene	105	12.475	12.475	0.000	96	2996332	10.0	9.01	
133 sec-Butylbenzene	105	12.603	12.603	0.000	93	3651316	10.0	8.97	
134 1,3-Dichlorobenzene	146	12.701	12.701	0.000	98	1821414	10.0	9.58	
135 4-Isopropyltoluene	119	12.713	12.713	0.000	97	3353438	10.0	9.26	
* 136 1,4-Dichlorobenzene-d4	152	12.755	12.755	0.000	92	1115320	10.0	10.0	
137 1,4-Dichlorobenzene	146	12.774	12.774	0.000	96	1845021	10.0	9.50	
138 1,2,3-Trimethylbenzene	120	12.786	12.786	0.000	98	1373413	10.0	9.06	
139 Benzyl chloride	126	12.853	12.853	0.000	97	291864	10.0	10.7	
140 n-Butylbenzene	92	13.011	13.011	0.000	97	1633806	10.0	8.95	
141 1,2-Dichlorobenzene	146	13.036	13.036	0.000	99	1656225	10.0	9.47	
142 p-Diethylbenzene	119	13.066	13.066	0.000	86	1698556	10.0	9.20	
145 1,2-Dibromo-3-Chloropropane	155	13.591	13.591	0.000	93	93744	10.0	10.1	
146 1,3,5-Trichlorobenzene	180	13.719	13.719	0.000	97	1501870	10.0	10.0	
147 1,2,4-Trichlorobenzene	180	14.145	14.145	0.000	94	1249124	10.0	9.89	
148 Hexachlorobutadiene	225	14.231	14.231	0.000	94	661435	10.0	10.1	
149 Naphthalene	128	14.328	14.328	0.000	96	1868170	10.0	9.30	
150 1,2,3-Trichlorobenzene	180	14.475	14.475	0.000	95	974781	10.0	9.58	
151 2-Methylnaphthalene	142	15.072	15.072	0.000	92	793683	10.0	8.37	

QC Flag Legend

Processing Flags

Reagents:

MSV_LL_#2_826_00059	Amount Added: 20.00	Units: uL	
MSV_LL_#1_826_00055	Amount Added: 20.00	Units: uL	
MSV_LL_GAS826_00115	Amount Added: 20.00	Units: uL	
MSV_HP25_ISSS_00059	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 07-Oct-2022 12:09:46 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20221007-68180.b\CC07X02.D

Injection Date: 07-Oct-2022 11:17:30 Instrument ID: 10193 Operator ID: knk41612

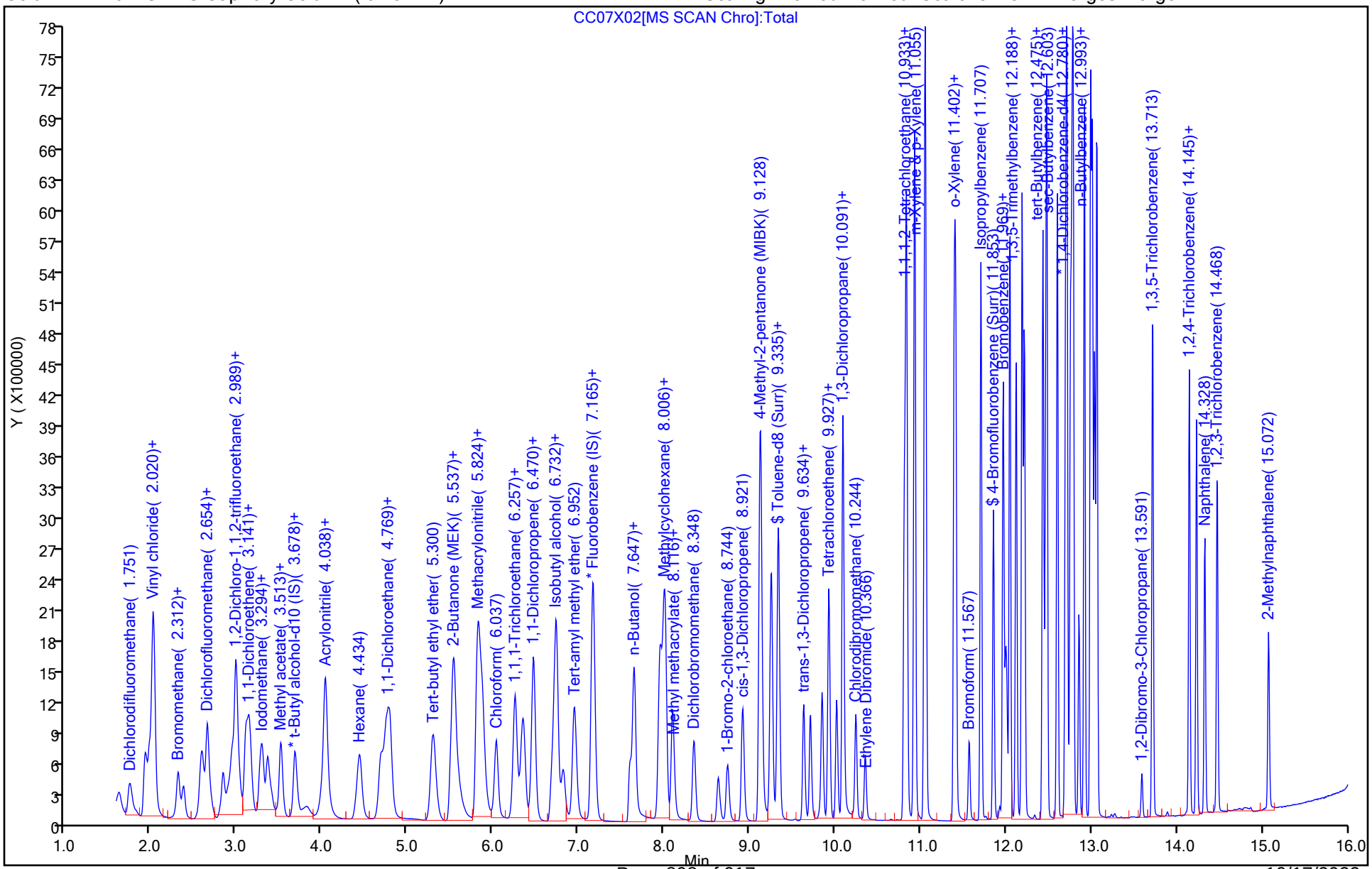
Lims ID: CCVIS VSTD10 Worklist Smp#: 3

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-99372-1

SDG No.:

Lab Sample ID: ICV 410-275687/4 Calibration Date: 07/14/2022 20:04

Instrument ID: 19094 Calib Start Date: 07/11/2022 16:51

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/11/2022 18:52

Lab File ID: copy_HL14X03.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	0.3063	0.2590	0.1000	4.23	5.00	-15.5	30.0
Chloromethane	Ave	0.3838	0.3406	0.1000	4.44	5.00	-11.2	30.0
1,3-Butadiene	Ave	0.3624	0.2894		3.99	5.00	-20.1	30.0
Vinyl chloride	Ave	0.3802	0.3321	0.1000	4.37	5.00	-12.6	30.0
Bromomethane	Ave	0.2669	0.2374	0.1000	4.45	5.00	-11.1	30.0
Chloroethane	Ave	0.2307	0.2091	0.1000	4.53	5.00	-9.4	30.0
Dichlorofluoromethane	Ave	0.5113	0.4758		4.65	5.00	-7.0	30.0
Trichlorofluoromethane	Ave	0.4602	0.4030	0.1000	4.38	5.00	-12.4	30.0
Ethyl ether	Ave	0.1924	0.1740		4.51	4.98	-9.6	30.0
Freon 123a	Ave	0.3585	0.3120		4.35	5.00	-13.0	30.0
Acrolein	Ave	2.748	2.918		39.8	37.5	6.2	30.0
1,1-Dichloroethene	Ave	0.2601	0.2385	0.1000	4.58	5.00	-8.3	30.0
Acetone	Ave	3.199	2.905	0.1000	56.8	62.5	-9.2	30.0
Freon 113	Ave	0.2536	0.2389	0.1000	4.71	5.00	-5.8	30.0
Methyl iodide	Ave	0.4522	0.4407		4.87	5.00	-2.5	30.0
Ethyl bromide	Ave	0.2285	0.1794		3.84	4.89	-21.5	30.0
Carbon disulfide	Ave	0.6962	0.6999	0.1000	5.03	5.00	0.5	30.0
Methyl acetate	Ave	8.464	10.17	0.1000	6.01	5.00	20.2	30.0
Allyl chloride	Ave	0.4513	0.4237		4.69	5.00	-6.1	30.0
Methylene Chloride	Ave	0.2694	0.2461	0.1000	4.57	5.00	-8.6	30.0
t-Butyl alcohol	Ave	1.082	1.257		58.1	50.0	16.2	30.0
Acrylonitrile	Ave	4.318	4.902		28.4	25.0	13.5	30.0
Methyl tert-butyl ether	Ave	0.5814	0.5286	0.1000	4.55	5.00	-9.1	30.0
trans-1,2-Dichloroethene	Ave	0.2889	0.2589	0.1000	4.48	5.00	-10.4	30.0
n-Hexane	Ave	0.4042	0.3482		4.31	5.00	-13.8	30.0
1,1-Dichloroethane	Ave	0.5400	0.4802	0.2000	4.45	5.00	-11.1	30.0
di-Isopropyl ether	Ave	0.9190	0.8318		4.53	5.00	-9.5	30.0
2-Chloro-1,3-butadiene	Ave	0.4410	0.4111		4.66	5.00	-6.8	30.0
Ethyl t-butyl ether	Ave	0.8130	0.7399		4.55	5.00	-9.0	30.0
2-Butanone (MEK)	Ave	5.564	6.373	0.1000	71.6	62.5	14.5	30.0
cis-1,2-Dichloroethene	Ave	0.3173	0.2894	0.1000	4.56	5.00	-8.8	30.0
2,2-Dichloropropane	Ave	0.4524	0.4185		4.63	5.00	-7.5	30.0
Propionitrile	Ave	1.427	1.628		42.8	37.5	14.1	30.0
Methacrylonitrile	Ave	6.162	6.912		42.1	37.5	12.2	30.0
Bromochloromethane	Ave	0.1268	0.1101		4.34	5.00	-13.1	30.0
Tetrahydrofuran	Ave	1.591	1.765		27.7	25.0	10.9	30.0
Chloroform	Ave	0.5095	0.4508	0.2000	4.42	5.00	-11.5	30.0
1,1,1-Trichloroethane	Ave	0.4742	0.4165	0.1000	4.39	5.00	-12.2	30.0
Cyclohexane	Ave	0.5379	0.4679	0.1000	4.35	5.00	-13.0	30.0
1,1-Dichloropropene	Ave	0.4287	0.3790		4.42	5.00	-11.6	30.0
Carbon tetrachloride	Ave	0.4101	0.3658	0.1000	4.46	5.00	-10.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-99372-1

SDG No.:

Lab Sample ID: ICV 410-275687/4 Calibration Date: 07/14/2022 20:04

Instrument ID: 19094 Calib Start Date: 07/11/2022 16:51

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/11/2022 18:52

Lab File ID: copy_HL14X03.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	0.3528	0.4228		150	125	19.8	30.0
Benzene	Ave	1.250	1.112	0.5000	4.45	5.00	-11.0	30.0
1,2-Dichloroethane	Ave	0.2708	0.2363	0.1000	4.36	5.00	-12.7	30.0
t-Amyl methyl ether	Ave	0.6927	0.6217		4.49	5.00	-10.3	30.0
n-Heptane	Ave	0.4424	0.3695		4.18	5.00	-16.5	30.0
n-Butanol	Ave	0.3017	0.3876		321	250	28.5	30.0
Trichloroethene	Ave	0.3292	0.2871	0.2000	4.36	5.00	-12.8	30.0
Methylcyclohexane	Ave	0.5553	0.4738	0.1000	4.27	5.00	-14.7	30.0
1,2-Dichloropropane	Ave	0.3137	0.2794	0.1000	4.45	5.00	-10.9	30.0
Methyl methacrylate	Ave	12.27	14.09		5.74	5.00	14.8	30.0
1,4-Dioxane	Ave	0.0784	0.1088	0.0050	174	125	38.8*	30.0
Dibromomethane	Ave	0.1306	0.1128		4.32	5.00	-13.6	30.0
Bromodichloromethane	Ave	0.3530	0.3184	0.2000	4.51	5.00	-9.8	30.0
2-Nitropropane	Ave	3.043	3.335		5.48	5.00	9.6	30.0
1-Bromo-2-chloroethane	Ave	0.2884	0.2512		4.36	5.00	-12.9	30.0
cis-1,3-Dichloropropene	Ave	0.4429	0.3951	0.2000	4.46	5.00	-10.8	30.0
4-Methyl-2-pentanone (MIBK)	Ave	15.08	17.02	0.1000	70.5	62.5	12.9	30.0
Toluene	Ave	0.9090	0.9510	0.4000	5.23	5.00	4.6	30.0
trans-1,3-Dichloropropene	Ave	0.3871	0.4277	0.1000	5.52	5.00	10.5	30.0
Ethyl methacrylate	Ave	0.2967	0.3279		5.53	5.00	10.5	30.0
1,1,2-Trichloroethane	Ave	0.2153	0.2263	0.1000	5.26	5.00	5.1	30.0
Tetrachloroethene	Ave	0.4197	0.4390	0.2000	5.23	5.00	4.6	30.0
1,3-Dichloropropane	Ave	0.3711	0.3928		5.29	5.00	5.8	30.0
2-Hexanone	Ave	10.01	11.61	0.1000	72.5	62.5	16.0	30.0
Dibromochloromethane	Ave	0.2665	0.2917		5.47	5.00	9.5	30.0
1,2-Dibromoethane (EDB)	Ave	0.1972	0.2124	0.1000	5.39	5.00	7.7	30.0
1-Chlorohexane	Ave	0.5617	0.5539		4.93	5.00	-1.4	30.0
Chlorobenzene	Ave	0.9684	1.013	0.5000	5.23	5.00	4.6	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3322	0.3578		5.39	5.00	7.7	30.0
Ethylbenzene	Ave	1.775	1.871	0.1000	5.27	5.00	5.4	30.0
m&p-Xylene	Ave	0.6768	0.7128	0.1000	10.5	10.0	5.3	30.0
o-Xylene	Ave	0.6542	0.6926	0.3000	5.29	5.00	5.9	30.0
Styrene	Ave	1.061	1.144	0.3000	5.39	5.00	7.8	30.0
Bromoform	Ave	0.1536	0.1691	0.1000	5.51	5.00	10.1	30.0
Isopropylbenzene	Ave	1.769	1.898	0.1000	5.37	5.00	7.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.4576	0.5046	0.3000	5.51	5.00	10.3	30.0
Bromobenzene	Ave	0.6850	0.7706		5.62	5.00	12.5	30.0
trans-1,4-Dichloro-2-butene	Ave	5.212	6.058		29.1	25.0	16.2	30.0
1,2,3-Trichloropropane	Ave	0.1149	0.1261		5.49	5.00	9.7	30.0
N-Propylbenzene	Ave	3.820	4.163		5.45	5.00	9.0	30.0
2-Chlorotoluene	Ave	0.7351	0.8087		5.50	5.00	10.0	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-99372-1

SDG No.:

Lab Sample ID: ICV 410-275687/4 Calibration Date: 07/14/2022 20:04

Instrument ID: 19094 Calib Start Date: 07/11/2022 16:51

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/11/2022 18:52

Lab File ID: copy_HL14X03.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	2.664	2.897		5.44	5.00	8.7	30.0
4-Chlorotoluene	Ave	0.7381	0.8125		5.50	5.00	10.1	30.0
tert-Butylbenzene	Ave	0.5892	0.6228		5.29	5.00	5.7	30.0
Pentachloroethane	Ave	0.4138	0.4711		5.69	5.00	13.9	30.0
1,2,4-Trimethylbenzene	Ave	2.688	2.935		5.46	5.00	9.2	30.0
sec-Butylbenzene	Ave	3.489	3.813		5.46	5.00	9.3	30.0
1,3-Dichlorobenzene	Ave	1.418	1.530	0.6000	5.39	5.00	7.8	30.0
p-Isopropyltoluene	Ave	2.991	3.252		5.44	5.00	8.7	30.0
1,4-Dichlorobenzene	Ave	1.408	1.536	0.5000	5.46	5.00	9.1	30.0
1,2,3-Trimethylbenzene	Ave	1.146	1.244		5.43	5.00	8.6	30.0
Benzyl chloride	Ave	0.1861	0.2164		5.81	5.00	16.3	30.0
n-Butylbenzene	Ave	1.510	1.613		5.34	5.00	6.8	30.0
1,2-Dichlorobenzene	Ave	1.257	1.361	0.4000	5.41	5.00	8.3	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0604	0.0657	0.0500	5.44	5.00	8.8	30.0
1,3,5-Trichlorobenzene	Ave	1.103	1.206		5.46	5.00	9.3	30.0
1,2,4-Trichlorobenzene	Ave	0.9290	1.003	0.2000	5.40	5.00	8.0	30.0
Hexachlorobutadiene	Ave	0.4512	0.4475		4.96	5.00	-0.8	30.0
Naphthalene	Ave	1.500	1.590		5.30	5.00	6.0	30.0
1,2,3-Trichlorobenzene	Ave	0.7887	0.8508		5.39	5.00	7.9	30.0
Dibromofluoromethane (Surr)	Ave	0.2531	0.2329		9.20	10.0	-8.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0462	0.0444		9.60	10.0	-4.0	30.0
Toluene-d8 (Surr)	Ave	1.223	1.331		10.9	10.0	8.8	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4966	0.4783		9.63	10.0	-3.7	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20220714-61834.b\copy_HL14X03.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 14-Jul-2022 20:04:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0061844-004
Misc. Info.: LCS
Operator ID: MEC29284 Instrument ID: 19094
Sublist:

Method: \\chromfs\Lancaster\ChromData\19094\20220714-61834.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 14-Jul-2022 20:49:54 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: K4WN Date: 14-Jul-2022 20:47:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
3 Dichlorodifluoromethane	85	1.928	1.934	-0.006	99	317261	5.00	4.23	M
6 Chloromethane	50	2.123	2.123	0.000	99	417299	5.00	4.44	
8 Butadiene	39	2.239	2.239	0.000	91	354600	5.00	3.99	M
7 Vinyl chloride	62	2.239	2.245	-0.006	87	406878	5.00	4.37	M
9 Bromomethane	94	2.562	2.562	0.000	90	290804	5.00	4.45	
10 Chloroethane	64	2.636	2.642	-0.006	100	256155	5.00	4.53	
11 Dichlorofluoromethane	67	2.867	2.873	-0.006	97	582865	5.00	4.65	
13 Trichlorofluoromethane	101	2.946	2.946	0.000	97	493715	5.00	4.38	
15 Ethyl ether	59	3.172	3.178	-0.006	92	212494	4.98	4.51	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.257	3.257	0.000	93	382207	5.00	4.35	
17 Acrolein	56	3.343	3.343	0.000	97	211963	37.5	39.8	
18 1,1-Dichloroethene	96	3.483	3.483	0.000	98	292133	5.00	4.58	
19 Acetone	43	3.501	3.501	0.000	100	351741	62.5	56.8	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.526	3.520	0.006	92	292691	5.00	4.71	
21 Isopropyl alcohol	45	3.654	3.623	0.031	96	66567	37.5	40.7	M
22 Iodomethane	142	3.672	3.672	0.000	98	539919	5.00	4.87	
23 Ethyl bromide	108	3.702	3.702	0.000	98	214737	4.89	3.84	
24 Carbon disulfide	76	3.782	3.782	0.000	98	857500	5.00	5.03	
26 Methyl acetate	43	3.904	3.897	0.007	97	98544	5.00	6.01	M
27 3-Chloro-1-propene	41	3.946	3.946	0.000	94	519083	5.00	4.69	
29 Methylene Chloride	84	4.123	4.123	0.000	92	301496	5.00	4.57	
* 28 t-Butyl alcohol-d10 (IS)	65	4.129	4.129	0.000	0	96858	50.0	50.0	
30 2-Methyl-2-propanol	59	4.245	4.245	0.000	100	121776	50.0	58.1	M
31 Acrylonitrile	53	4.440	4.446	-0.006	99	237419	25.0	28.4	
32 Methyl tert-butyl ether	73	4.519	4.525	-0.006	95	647586	5.00	4.55	
33 trans-1,2-Dichloroethene	96	4.544	4.544	0.000	100	317139	5.00	4.48	
34 Hexane	57	4.952	4.952	0.000	92	426626	5.00	4.31	
35 1,1-Dichloroethane	63	5.202	5.196	0.006	95	588266	5.00	4.45	
37 Isopropyl ether	45	5.251	5.251	0.000	96	1018982	5.00	4.53	
38 2-Chloro-1,3-butadiene	53	5.306	5.306	0.000	89	503677	5.00	4.66	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.793	5.787	0.006	98	906405	5.00	4.55	
41 2-Butanone (MEK)	43	5.982	5.982	0.000	100	771623	62.5	71.6	
42 cis-1,2-Dichloroethene	96	6.025	6.025	0.000	82	354488	5.00	4.56	
43 2,2-Dichloropropane	77	6.049	6.056	-0.007	86	512736	5.00	4.63	
45 Propionitrile	54	6.062	6.062	0.000	98	118244	37.5	42.8	
47 Methacrylonitrile	67	6.287	6.287	0.000	92	502139	37.5	42.1	
48 Chlorobromomethane	128	6.360	6.360	0.000	95	134934	5.00	4.34	
49 Tetrahydrofuran	71	6.360	6.367	-0.006	84	85478	25.0	27.7	
50 Chloroform	83	6.507	6.513	-0.006	93	552291	5.00	4.42	
$ 51 Dibromofluoromethane (Surr)	113	6.726	6.726	0.000	94	570532	10.0	9.20	
52 1,1,1-Trichloroethane	97	6.757	6.751	0.006	98	510286	5.00	4.39	
53 Cyclohexane	56	6.848	6.854	-0.006	90	573185	5.00	4.35	
55 1,1-Dichloropropene	75	6.952	6.958	-0.006	99	464331	5.00	4.42	
56 Carbon tetrachloride	117	6.970	6.964	0.006	96	448172	5.00	4.46	
57 Isobutyl alcohol	41	7.086	7.086	0.000	95	102383	125.0	149.8	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.183	7.183	0.000	0	108671	10.0	9.60	
59 Benzene	78	7.214	7.220	-0.006	97	1362583	5.00	4.45	
60 1,2-Dichloroethane	62	7.293	7.287	0.006	97	289443	5.00	4.36	
62 Tert-amyl methyl ether	73	7.415	7.415	0.000	99	761612	5.00	4.49	
* 65 Fluorobenzene (IS)	96	7.628	7.628	0.000	98	2450189	10.0	10.0	
64 n-Heptane	43	7.647	7.647	0.000	92	452715	5.00	4.18	
66 n-Butanol	56	7.988	7.982	0.006	86	187727	250.0	321.2	
67 Trichloroethene	95	8.110	8.110	0.000	98	351712	5.00	4.36	
68 Methylcyclohexane	83	8.433	8.427	0.006	93	580483	5.00	4.27	
70 1,2-Dichloropropane	63	8.445	8.445	0.000	80	342293	5.00	4.45	
69 2-ethoxy-2-methyl butane	87	8.451	8.458	-0.007	90	484021	5.00	4.50	
72 1,4-Dioxane	88	8.543	8.531	0.012	31	26349	125.0	173.6	
71 Methyl methacrylate	69	8.537	8.531	0.006	89	136500	5.00	5.74	
73 Dibromomethane	93	8.555	8.555	0.000	95	138155	5.00	4.32	
75 Dichlorobromomethane	83	8.793	8.793	0.000	100	390074	5.00	4.51	
76 2-Nitropropane	41	9.061	9.061	0.000	97	32304	5.00	5.48	
79 1-Bromo-2-chloroethane	63	9.189	9.195	-0.006	99	307741	5.00	4.36	
80 cis-1,3-Dichloropropene	75	9.348	9.348	0.000	97	484052	5.00	4.46	
81 4-Methyl-2-pentanone (MIBK)	43	9.518	9.518	0.000	96	2061124	62.5	70.5	
$ 82 Toluene-d8 (Surr)	98	9.665	9.665	0.000	93	2424916	10.0	10.9	
83 Toluene	92	9.744	9.738	0.006	99	866148	5.00	5.23	
85 trans-1,3-Dichloropropene	75	10.000	10.000	0.000	91	389562	5.00	5.52	
86 Ethyl methacrylate	69	10.061	10.061	0.000	89	298664	5.00	5.53	
87 1,1,2-Trichloroethane	97	10.207	10.207	0.000	89	206112	5.00	5.26	
88 Tetrachloroethene	166	10.299	10.299	0.000	97	399862	5.00	5.23	
89 1,3-Dichloropropane	76	10.372	10.372	0.000	89	357771	5.00	5.29	
91 2-Hexanone	43	10.421	10.421	0.000	97	1405955	62.5	72.5	
93 Chlorodibromomethane	129	10.591	10.591	0.000	89	265663	5.00	5.47	
94 Ethylene Dibromide	107	10.701	10.701	0.000	99	193481	5.00	5.39	
* 97 Chlorobenzene-d5 (IS)	117	11.134	11.134	0.000	85	1821571	10.0	10.0	
96 1-Chlorohexane	91	11.146	11.146	0.000	98	504456	5.00	4.93	
98 Chlorobenzene	112	11.164	11.164	0.000	95	922229	5.00	5.23	
99 1,1,1,2-Tetrachloroethane	131	11.244	11.244	0.000	96	325896	5.00	5.39	
100 Ethylbenzene	91	11.250	11.250	0.000	98	1703874	5.00	5.27	
101 m-Xylene & p-Xylene	106	11.366	11.366	0.000	0	1298435	10.0	10.5	
102 o-Xylene	106	11.695	11.695	0.000	96	630822	5.00	5.29	
103 Styrene	104	11.713	11.707	0.006	95	1041579	5.00	5.39	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 Bromoform	173	11.872	11.872	0.000	98	154007	5.00	5.51	
105 Isopropylbenzene	105	11.993	11.993	0.000	96	1728871	5.00	5.37	
$ 108 4-Bromofluorobenzene (Surr)	95	12.140	12.140	0.000	92	871254	10.0	9.63	
109 1,1,2,2-Tetrachloroethane	83	12.243	12.243	0.000	92	247560	5.00	5.51	
111 Bromobenzene	156	12.256	12.256	0.000	96	378040	5.00	5.62	
110 trans-1,4-Dichloro-2-butene	53	12.268	12.268	0.000	91	293360	25.0	29.1	
112 1,2,3-Trichloropropane	110	12.286	12.286	0.000	81	61842	5.00	5.49	
113 N-Propylbenzene	91	12.329	12.329	0.000	99	2042179	5.00	5.45	
114 2-Chlorotoluene	126	12.402	12.402	0.000	97	396739	5.00	5.50	
115 1,3,5-Trimethylbenzene	105	12.463	12.463	0.000	94	1421117	5.00	5.44	
116 4-Chlorotoluene	126	12.493	12.493	0.000	97	398583	5.00	5.50	
118 tert-Butylbenzene	134	12.707	12.707	0.000	93	305540	5.00	5.29	
119 Pentachloroethane	167	12.737	12.737	0.000	94	231131	5.00	5.69	
120 1,2,4-Trimethylbenzene	105	12.749	12.749	0.000	97	1439971	5.00	5.46	
121 sec-Butylbenzene	105	12.871	12.871	0.000	94	1870814	5.00	5.46	
122 1,3-Dichlorobenzene	146	12.969	12.969	0.000	98	750424	5.00	5.39	
123 4-Isopropyltoluene	119	12.975	12.975	0.000	97	1595293	5.00	5.44	
* 124 1,4-Dichlorobenzene-d4	152	13.024	13.024	0.000	94	981185	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.042	13.042	0.000	95	753566	5.00	5.46	
126 1,2,3-Trimethylbenzene	120	13.054	13.054	0.000	98	610505	5.00	5.43	
127 Benzyl chloride	126	13.115	13.115	0.000	98	106143	5.00	5.81	
129 p-Diethylbenzene	119	13.176	13.176	0.000	92	932730	5.00	5.50	
130 n-Butylbenzene	92	13.268	13.268	0.000	97	791229	5.00	5.34	
131 1,2-Dichlorobenzene	146	13.298	13.298	0.000	99	667486	5.00	5.41	
134 1,2-Dibromo-3-Chloropropane	155	13.847	13.847	0.000	89	32241	5.00	5.44	
135 1,3,5-Trichlorobenzene	180	13.969	13.969	0.000	98	591489	5.00	5.46	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	492177	5.00	5.40	
137 Hexachlorobutadiene	225	14.475	14.475	0.000	95	219557	5.00	4.96	
138 Naphthalene	128	14.572	14.572	0.000	97	780013	5.00	5.30	
139 1,2,3-Trichlorobenzene	180	14.712	14.712	0.000	95	417400	5.00	5.39	
140 2-Methylnaphthalene	142	15.334	15.334	0.000	93	464135	5.00	5.24	
194 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00063	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00066	Amount Added:	12.50	Units: uL	
MSV_LCS_EE_00003	Amount Added:	12.50	Units: uL	
LCS_ETBR_00003	Amount Added:	12.50	Units: uL	
MSV_LCS_Penta_00017	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00089	Amount Added:	12.50	Units: uL	
MSV_LLcentISS_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 14-Jul-2022 20:49:59 Chrom Revision: 2.3 08-Jul-2022 13:26:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20220714-61834.b\copy_HL14X03.D

Injection Date: 14-Jul-2022 20:04:30 Instrument ID: 19094 Operator ID: MEC29284

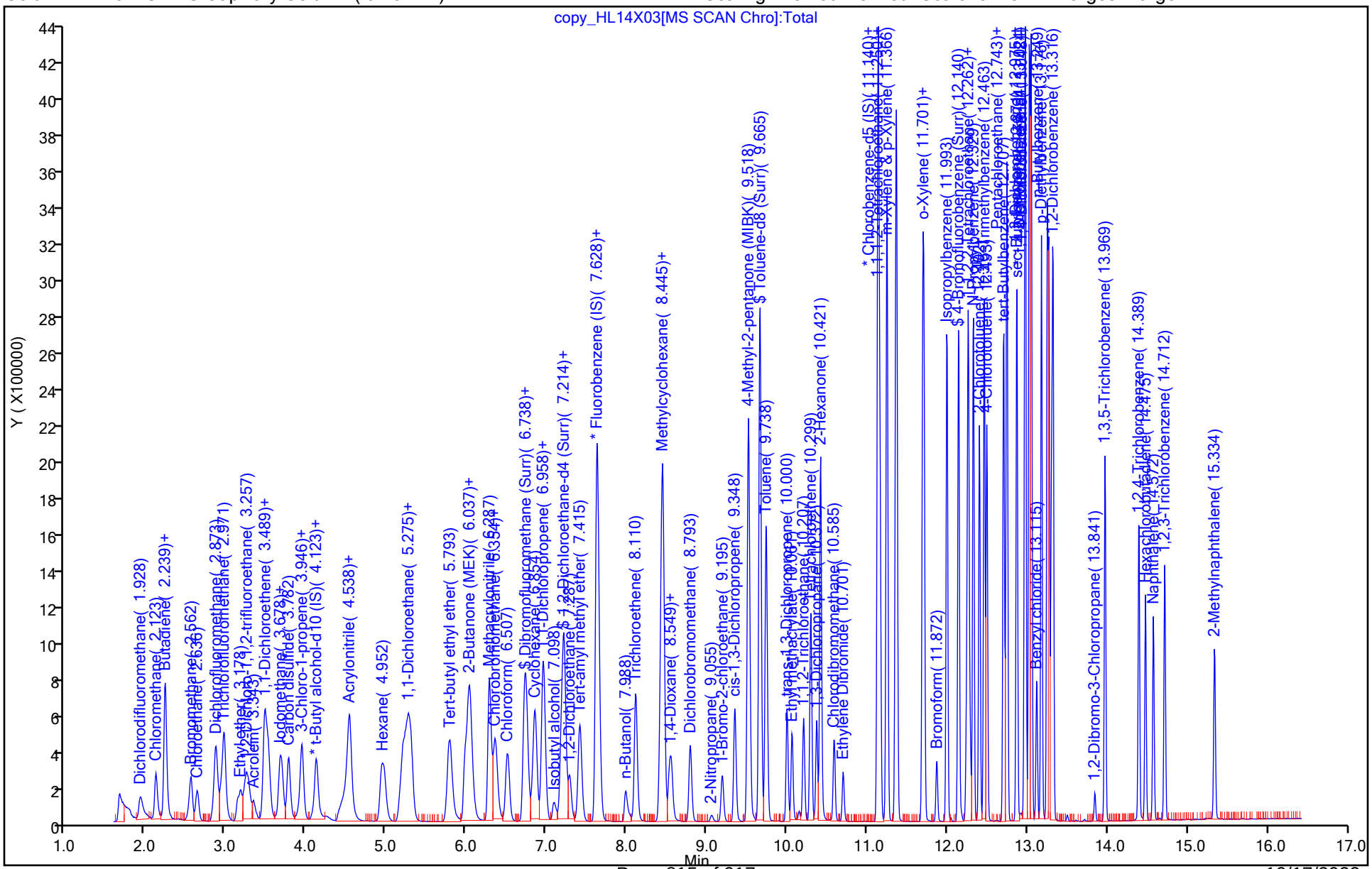
Lims ID: ICV Worklist Smp#: 4

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: MSV_19094_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

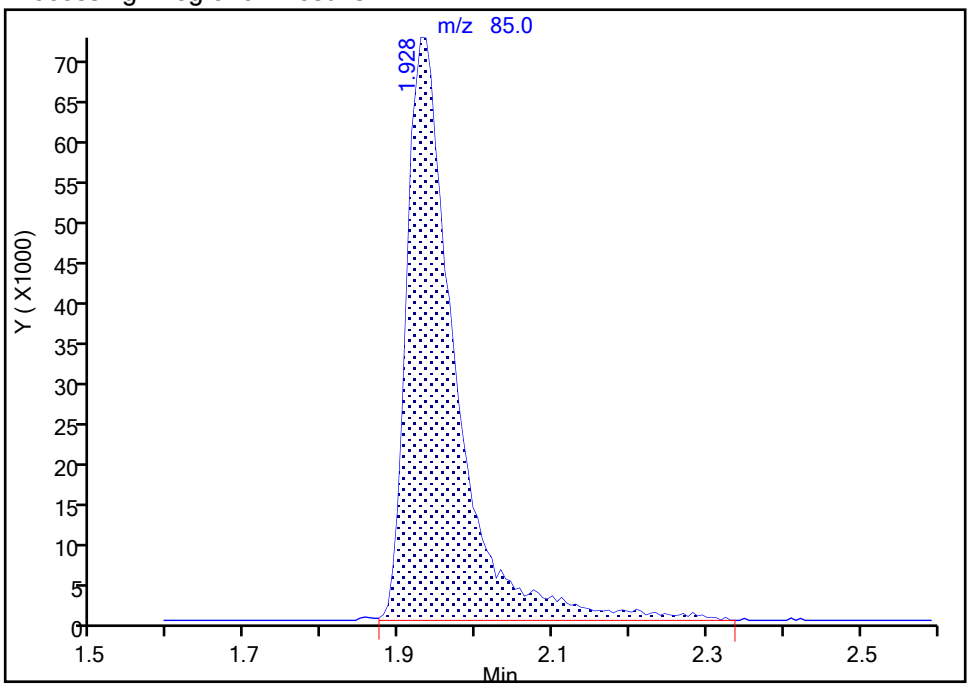
Data File:	\\chromfs\Lancaster\ChromData\19094\20220714-61834.b\copy_HL14X03.D				
Injection Date:	14-Jul-2022 20:04:30	Instrument ID:	19094		
Lims ID:	ICV				
Client ID:					
Operator ID:	MEC29284	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

3 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

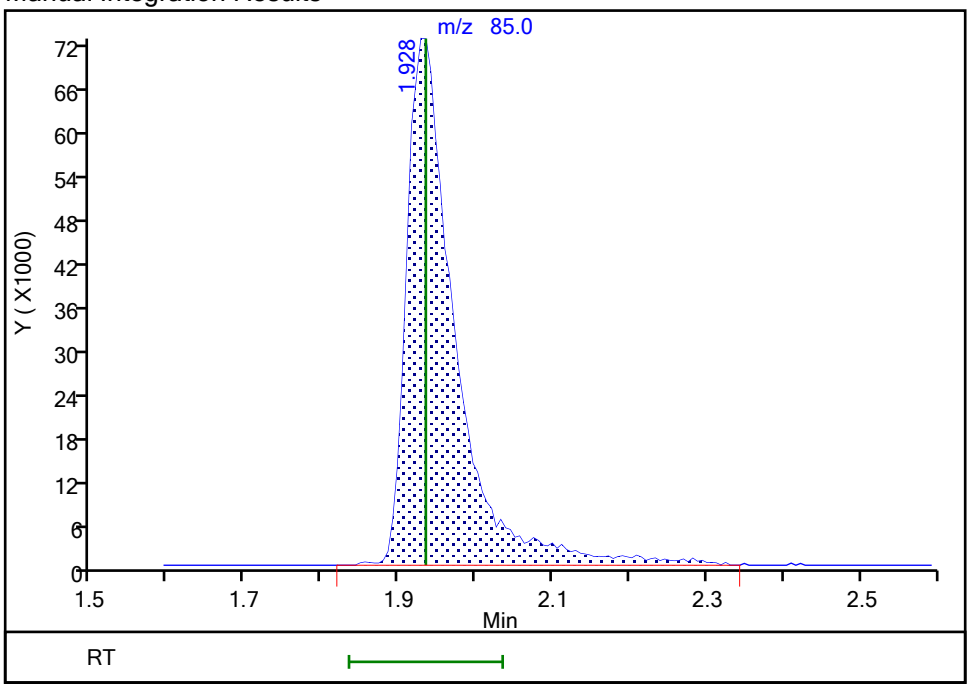
Processing Integration Results

RT: 1.93
Area: 316797
Amount: 4.221015
Amount Units: ug/l



Manual Integration Results

RT: 1.93
Area: 317261
Amount: 4.227198
Amount Units: ug/l



Reviewer: K4WN, 14-Jul-2022 20:43:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

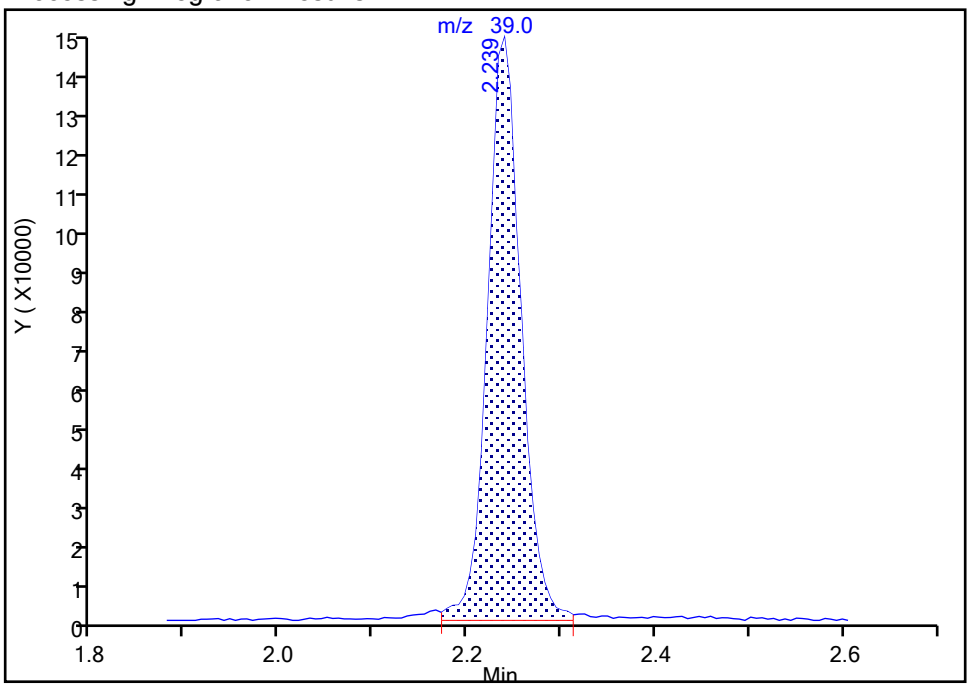
Data File:	\\chromfs\Lancaster\ChromData\19094\20220714-61834.b\copy_HL14X03.D				
Injection Date:	14-Jul-2022 20:04:30	Instrument ID:	19094		
Lims ID:	ICV				
Client ID:					
Operator ID:	MEC29284	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

8 Butadiene, CAS: 106-99-0

Signal: 1

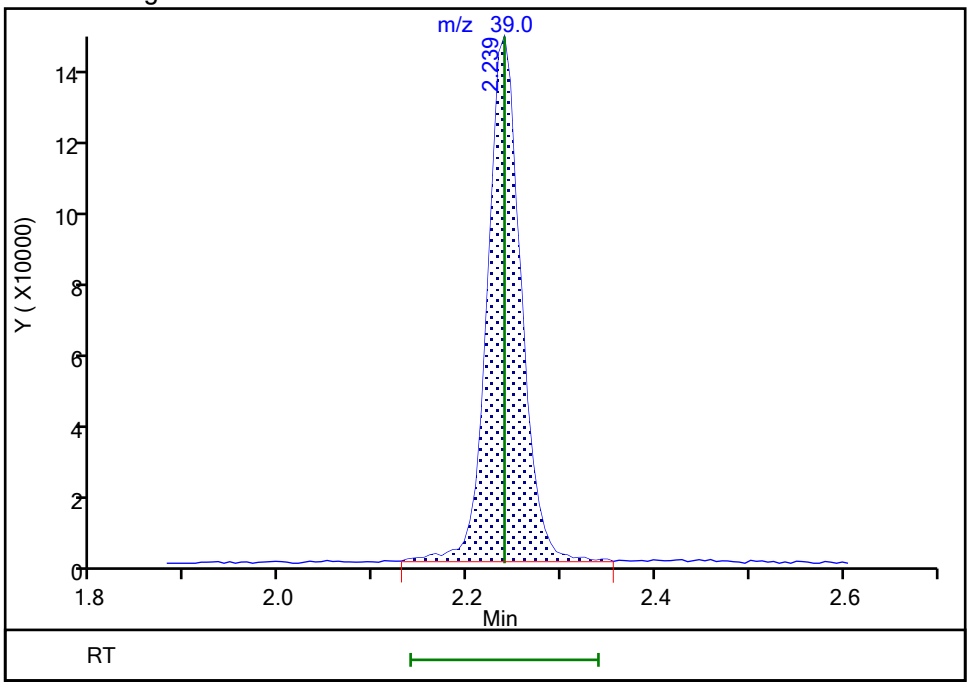
Processing Integration Results

RT: 2.24
Area: 353737
Amount: 3.983206
Amount Units: ug/l



Manual Integration Results

RT: 2.24
Area: 354600
Amount: 3.992924
Amount Units: ug/l



Reviewer: K4WN, 14-Jul-2022 20:44:09
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

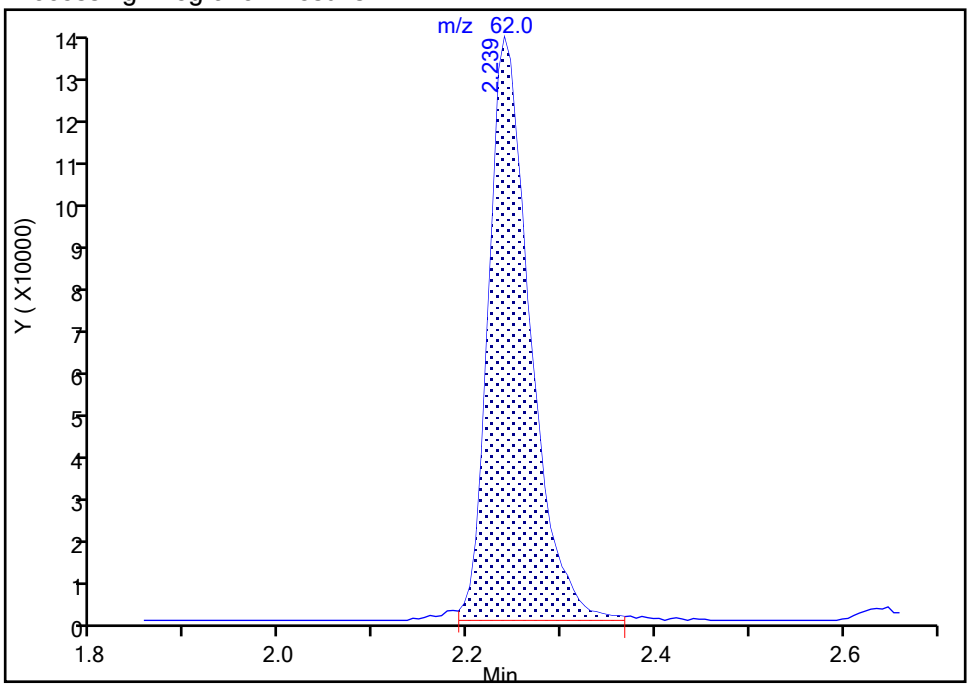
Data File:	\\chromfs\Lancaster\ChromData\19094\20220714-61834.b\copy_HL14X03.D				
Injection Date:	14-Jul-2022 20:04:30	Instrument ID:	19094		
Lims ID:	ICV				
Client ID:					
Operator ID:	MEC29284	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

7 Vinyl chloride, CAS: 75-01-4

Signal: 1

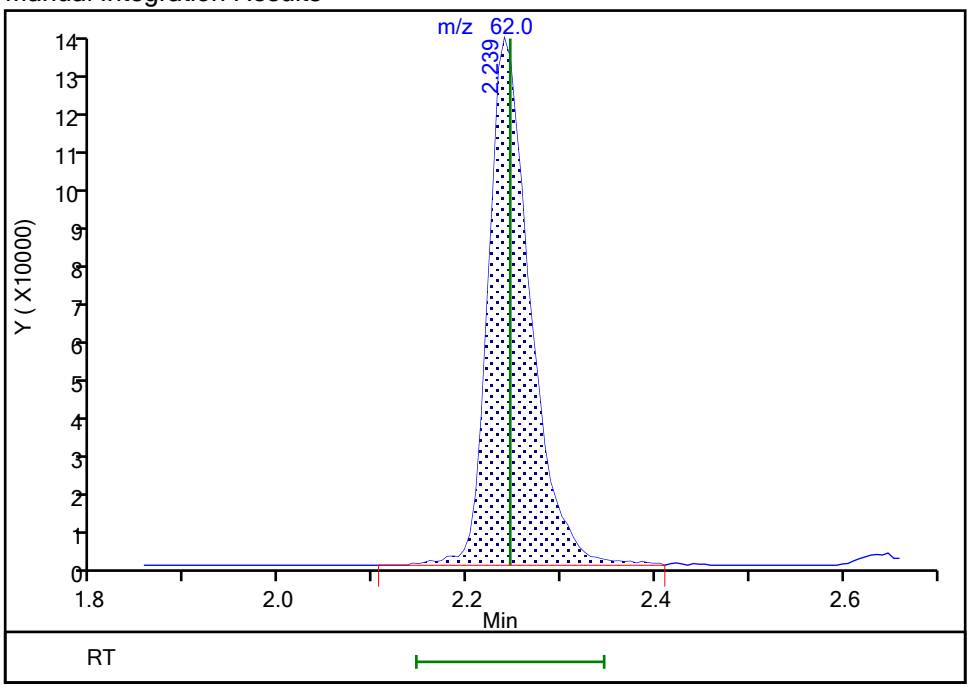
Processing Integration Results

RT: 2.24
Area: 402254
Amount: 4.317978
Amount Units: ug/l



Manual Integration Results

RT: 2.24
Area: 406878
Amount: 4.367614
Amount Units: ug/l



Reviewer: K4WN, 14-Jul-2022 20:44:16

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

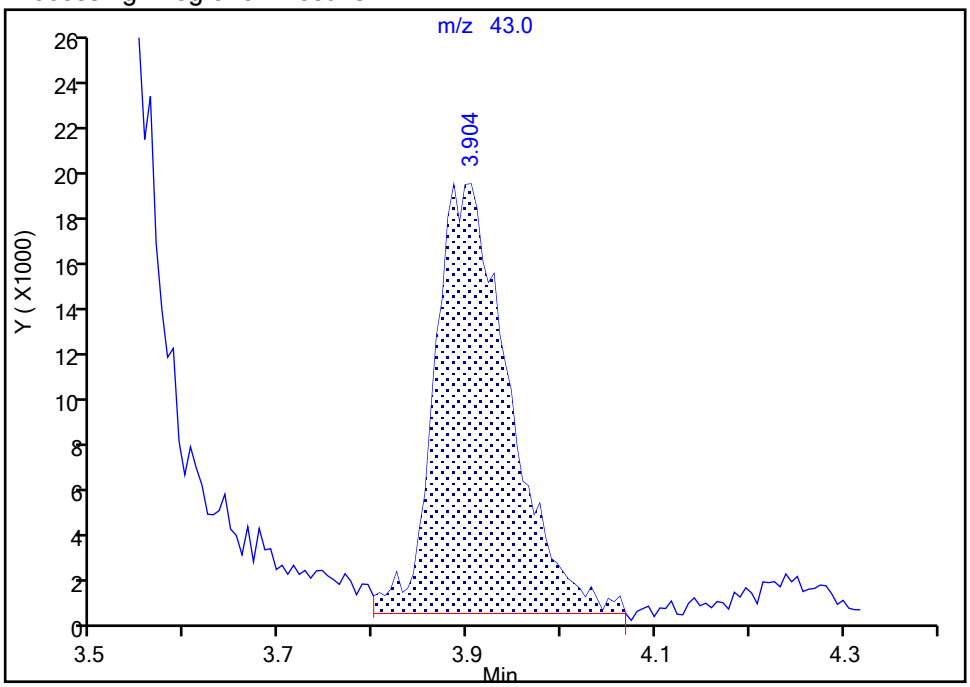
Data File:	\\chromfs\Lancaster\ChromData\19094\20220714-61834.b\copy_HL14X03.D				
Injection Date:	14-Jul-2022 20:04:30	Instrument ID:	19094		
Lims ID:	ICV				
Client ID:					
Operator ID:	MEC29284	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

26 Methyl acetate, CAS: 79-20-9

Signal: 1

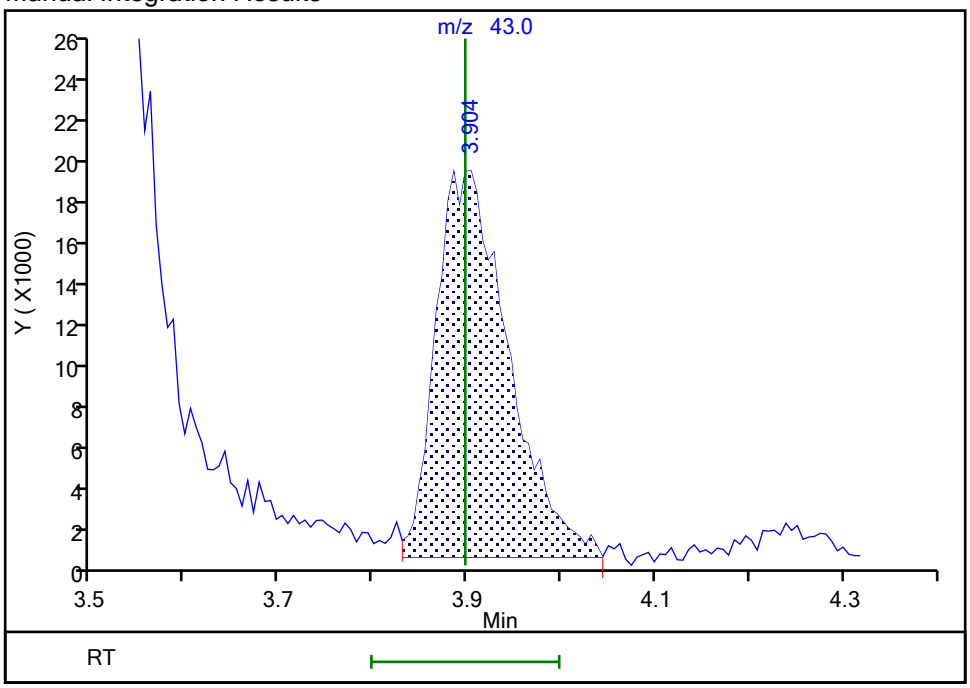
Processing Integration Results

RT: 3.90
Area: 102033
Amount: 6.222656
Amount Units: ug/l



Manual Integration Results

RT: 3.90
Area: 98544
Amount: 6.009874
Amount Units: ug/l



Reviewer: K4WN, 14-Jul-2022 20:44:53
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

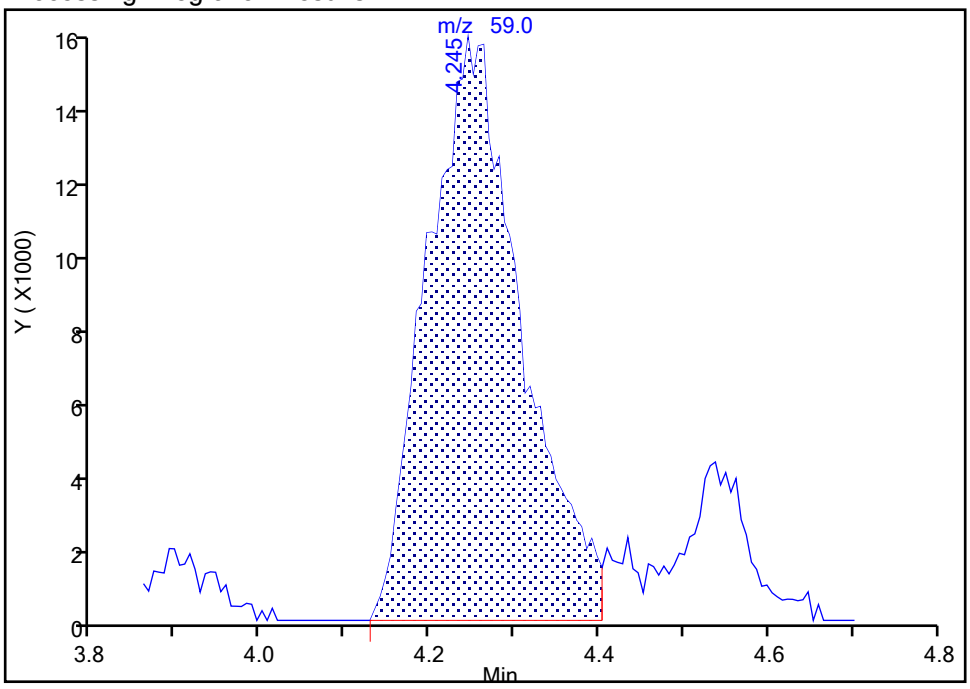
Data File:	\\chromfs\Lancaster\ChromData\19094\20220714-61834.b\copy_HL14X03.D				
Injection Date:	14-Jul-2022 20:04:30	Instrument ID:	19094		
Lims ID:	ICV				
Client ID:					
Operator ID:	MEC29284	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

30 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

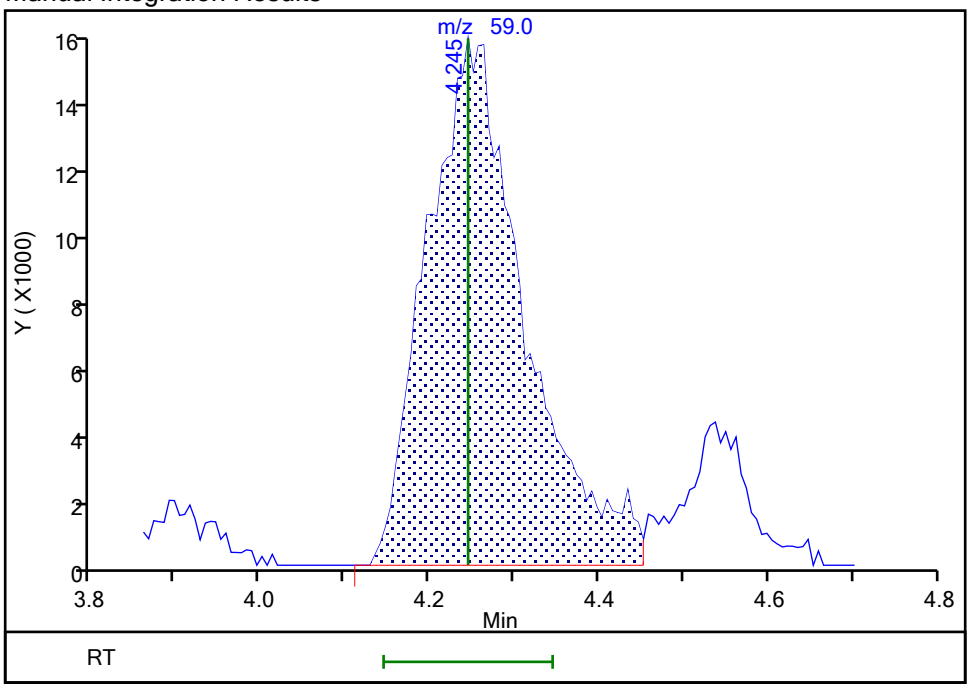
Processing Integration Results

RT: 4.24
Area: 117435
Amount: 56.038088
Amount Units: ug/l



Manual Integration Results

RT: 4.24
Area: 121776
Amount: 58.109543
Amount Units: ug/l



Reviewer: K4WN, 14-Jul-2022 20:45:07
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.: 410-99372-1

SDG No.:

Lab Sample ID: CCVIS 410-303234/3 Calibration Date: 10/05/2022 09:46

Instrument ID: 19094 Calib Start Date: 07/11/2022 16:51

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/11/2022 18:52

Lab File ID: HO05X02.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	0.3063	0.3462	0.1000	11.3	10.0	13.0	20.0
Chloromethane	Ave	0.3838	0.3852	0.1000	10.0	10.0	0.4	20.0
Vinyl chloride	Ave	0.3802	0.3582	0.1000	9.42	10.0	-5.8	20.0
1,3-Butadiene	Ave	0.3624	0.4459		12.3	10.0	23.0*	20.0
Bromomethane	Ave	0.2669	0.2410	0.1000	9.03	10.0	-9.7	20.0
Chloroethane	Ave	0.2307	0.2169	0.1000	9.40	10.0	-6.0	20.0
Dichlorofluoromethane	Ave	0.5113	0.4879		9.54	10.0	-4.6	20.0
Trichlorofluoromethane	Ave	0.4602	0.4544	0.1000	9.87	10.0	-1.3	20.0
Ethyl ether	Ave	0.1924	0.1785		9.28	10.0	-7.3	20.0
Freon 123a	Ave	0.3585	0.3169		8.84	10.0	-11.6	20.0
Acrolein	Ave	2.748	2.016		367	500	-26.6*	20.0
1,1-Dichloroethene	Ave	0.2601	0.2287	0.1000	8.79	10.0	-12.1	20.0
Acetone	Ave	3.199	2.774	0.1000	86.7	100	-13.3	20.0
Freon 113	Ave	0.2536	0.2140	0.1000	8.44	10.0	-15.6	20.0
Methyl iodide	Ave	0.4522	0.4079		9.02	10.0	-9.8	20.0
Ethyl bromide	Ave	0.2285	0.2012		8.80	10.0	-12.0	20.0
Carbon disulfide	Ave	0.6962	0.6456	0.1000	9.27	10.0	-7.3	20.0
Methyl acetate	Ave	8.464	6.798	0.1000	8.03	10.0	-19.7	20.0
Allyl chloride	Ave	0.4513	0.4049		8.97	10.0	-10.3	20.0
Methylene Chloride	Ave	0.2694	0.2452	0.1000	9.10	10.0	-9.0	20.0
t-Butyl alcohol	Ave	1.082	1.055		195	200	-2.5	20.0
Acrylonitrile	Ave	4.318	3.784		21.9	25.0	-12.4	20.0
Methyl tert-butyl ether	Ave	0.5814	0.5421	0.1000	9.32	10.0	-6.8	20.0
trans-1,2-Dichloroethene	Ave	0.2889	0.2581	0.1000	8.93	10.0	-10.7	20.0
n-Hexane	Ave	0.4042	0.3471		8.59	10.0	-14.1	20.0
1,1-Dichloroethane	Ave	0.5400	0.4999	0.2000	9.26	10.0	-7.4	20.0
di-Isopropyl ether	Ave	0.9190	0.8401		9.14	10.0	-8.6	20.0
2-Chloro-1,3-butadiene	Ave	0.4410	0.4165		9.44	10.0	-5.6	20.0
Ethyl t-butyl ether	Ave	0.8130	0.7333		9.02	10.0	-9.8	20.0
2-Butanone (MEK)	Ave	5.564	5.099	0.1000	91.6	100	-8.4	20.0
cis-1,2-Dichloroethene	Ave	0.3173	0.2849	0.1000	8.98	10.0	-10.2	20.0
2,2-Dichloropropane	Ave	0.4524	0.4195		9.27	10.0	-7.3	20.0
Propionitrile	Ave	1.427	1.418		199	200	-0.6	20.0
Methacrylonitrile	Ave	6.162	4.996		81.1	100	-18.9	20.0
Bromochloromethane	Ave	0.1268	0.1189		9.38	10.0	-6.2	20.0
Tetrahydrofuran	Ave	1.591	1.307		41.1	50.0	-17.8	20.0
Chloroform	Ave	0.5095	0.4800	0.2000	9.42	10.0	-5.8	20.0
1,1,1-Trichloroethane	Ave	0.4742	0.4362	0.1000	9.20	10.0	-8.0	20.0
Cyclohexane	Ave	0.5379	0.4510	0.1000	8.38	10.0	-16.2	20.0
1,1-Dichloropropene	Ave	0.4287	0.4061		9.47	10.0	-5.3	20.0
Carbon tetrachloride	Ave	0.4101	0.3809	0.1000	9.29	10.0	-7.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-99372-1

SDG No.:

Lab Sample ID: CCVIS 410-303234/3 Calibration Date: 10/05/2022 09:46

Instrument ID: 19094 Calib Start Date: 07/11/2022 16:51

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/11/2022 18:52

Lab File ID: HO05X02.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	0.3528	0.3552		503	500	0.7	20.0
Benzene	Ave	1.250	1.155	0.5000	9.25	10.0	-7.5	20.0
1,2-Dichloroethane	Ave	0.2708	0.2936	0.1000	10.8	10.0	8.5	20.0
t-Amyl methyl ether	Ave	0.6927	0.6440		9.30	10.0	-7.0	20.0
n-Heptane	Ave	0.4424	0.3699		8.36	10.0	-16.4	20.0
n-Butanol	Ave	0.3017	0.3206		930	875	6.3	20.0
Trichloroethene	Ave	0.3292	0.3070	0.2000	9.33	10.0	-6.7	20.0
Methylcyclohexane	Ave	0.5553	0.4723	0.1000	8.51	10.0	-14.9	20.0
1,2-Dichloropropane	Ave	0.3137	0.3048	0.1000	9.72	10.0	-2.8	20.0
Methyl methacrylate	Ave	12.27	9.589		7.81	10.0	-21.9*	20.0
1,4-Dioxane	Ave	0.0784	0.0650	0.0050	415	500	-17.0	20.0
Dibromomethane	Ave	0.1306	0.1285		9.84	10.0	-1.6	20.0
Bromodichloromethane	Ave	0.3530	0.3498	0.2000	9.91	10.0	-0.9	20.0
2-Nitropropane	Ave	3.043	2.723		44.7	50.0	-10.5	20.0
1-Bromo-2-chloroethane	Ave	0.2884	0.2981		10.3	10.0	3.4	20.0
cis-1,3-Dichloropropene	Ave	0.4429	0.4475	0.2000	10.1	10.0	1.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	15.08	13.10	0.1000	86.8	100	-13.2	20.0
Toluene	Ave	0.9090	0.9041	0.4000	9.95	10.0	-0.5	20.0
trans-1,3-Dichloropropene	Ave	0.3871	0.4356	0.1000	11.3	10.0	12.5	20.0
Ethyl methacrylate	Ave	0.2967	0.3223		10.9	10.0	8.6	20.0
1,1,2-Trichloroethane	Ave	0.2153	0.2281	0.1000	10.6	10.0	6.0	20.0
Tetrachloroethene	Ave	0.4197	0.4272	0.2000	10.2	10.0	1.8	20.0
1,3-Dichloropropane	Ave	0.3711	0.4078		11.0	10.0	9.9	20.0
2-Hexanone	Ave	10.01	9.121	0.1000	91.1	100	-8.9	20.0
Dibromochloromethane	Ave	0.2665	0.2964		11.1	10.0	11.2	20.0
1,2-Dibromoethane (EDB)	Ave	0.1972	0.2222	0.1000	11.3	10.0	12.7	20.0
1-Chlorohexane	Ave	0.5617	0.5297		9.43	10.0	-5.7	20.0
Chlorobenzene	Ave	0.9684	0.9855	0.5000	10.2	10.0	1.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3322	0.3412		10.3	10.0	2.7	20.0
Ethylbenzene	Ave	1.775	1.776	0.1000	10.0	10.0	0.0	20.0
m&p-Xylene	Ave	0.6768	0.6908	0.1000	20.4	20.0	2.1	20.0
o-Xylene	Ave	0.6542	0.6607	0.3000	10.1	10.0	1.0	20.0
Styrene	Ave	1.061	1.092	0.3000	10.3	10.0	2.9	20.0
Bromoform	Ave	0.1536	0.1727	0.1000	11.2	10.0	12.4	20.0
Isopropylbenzene	Ave	1.769	1.742	0.1000	9.85	10.0	-1.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.4576	0.4808	0.3000	10.5	10.0	5.1	20.0
Bromobenzene	Ave	0.6850	0.6883		10.0	10.0	0.5	20.0
trans-1,4-Dichloro-2-butene	Ave	5.212	3.620		69.5	100	-30.5*	20.0
1,2,3-Trichloropropane	Ave	0.1149	0.1239		10.8	10.0	7.9	20.0
N-Propylbenzene	Ave	3.820	3.717		9.73	10.0	-2.7	20.0
2-Chlorotoluene	Ave	0.7351	0.7287		9.91	10.0	-0.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-99372-1

SDG No.:

Lab Sample ID: CCVIS 410-303234/3 Calibration Date: 10/05/2022 09:46

Instrument ID: 19094 Calib Start Date: 07/11/2022 16:51

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/11/2022 18:52

Lab File ID: HO05X02.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	2.664	2.541		9.54	10.0	-4.6	20.0
4-Chlorotoluene	Ave	0.7381	0.7398		10.0	10.0	0.2	20.0
tert-Butylbenzene	Ave	0.5892	0.5730		9.73	10.0	-2.7	20.0
Pentachloroethane	Ave	0.4138	0.4411		10.7	10.0	6.6	20.0
1,2,4-Trimethylbenzene	Ave	2.688	2.605		9.69	10.0	-3.1	20.0
sec-Butylbenzene	Ave	3.489	3.247		9.31	10.0	-6.9	20.0
1,3-Dichlorobenzene	Ave	1.418	1.409	0.6000	9.93	10.0	-0.7	20.0
p-Isopropyltoluene	Ave	2.991	2.854		9.54	10.0	-4.6	20.0
1,4-Dichlorobenzene	Ave	1.408	1.403	0.5000	9.97	10.0	-0.3	20.0
1,2,3-Trimethylbenzene	Ave	1.146	1.103		9.62	10.0	-3.8	20.0
Benzyl chloride	Ave	0.1861	0.2108		11.3	10.0	13.3	20.0
n-Butylbenzene	Ave	1.510	1.392		9.22	10.0	-7.8	20.0
1,2-Dichlorobenzene	Ave	1.257	1.249	0.4000	9.94	10.0	-0.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0604	0.0692	0.0500	11.5	10.0	14.5	20.0
1,3,5-Trichlorobenzene	Ave	1.103	1.030		9.34	10.0	-6.6	20.0
1,2,4-Trichlorobenzene	Ave	0.9290	0.8413	0.2000	9.06	10.0	-9.4	20.0
Hexachlorobutadiene	Ave	0.4512	0.3301		7.32	10.0	-26.8*	20.0
Naphthalene	Ave	1.500	1.399		9.33	10.0	-6.7	20.0
1,2,3-Trichlorobenzene	Ave	0.7887	0.6879		8.72	10.0	-12.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2531	0.2465		9.74	10.0	-2.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0462	0.0484		10.5	10.0	4.7	20.0
Toluene-d8 (Surr)	Ave	1.223	1.291		10.5	10.0	5.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4966	0.4950		9.97	10.0	-0.3	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X02.D
Lims ID: CCVIS VSTD10
Client ID:
Sample Type: CCVIS
Inject. Date: 05-Oct-2022 09:46:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0067970-003
Misc. Info.: CCVIS VSTD10
Operator ID: knk41612 Instrument ID: 19094
Sublist: chrom-MSV_19094_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2022 13:57:50 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: DVW2 Date: 05-Oct-2022 10:18:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.934	1.934	0.000	99	606920	10.0	11.3	
5 Chloromethane	50	2.123	2.123	0.000	99	675357	10.0	10.0	
7 Vinyl chloride	62	2.239	2.239	0.000	97	627993	10.0	9.42	
6 Butadiene	39	2.251	2.251	0.000	94	781682	10.0	12.3	
9 Bromomethane	94	2.575	2.575	0.000	91	422498	10.0	9.03	
10 Chloroethane	64	2.654	2.654	0.000	100	380152	10.0	9.40	
11 Dichlorofluoromethane	67	2.885	2.885	0.000	97	855369	10.0	9.54	
12 Trichlorofluoromethane	101	2.959	2.959	0.000	97	796615	10.0	9.87	
14 Ethyl ether	59	3.209	3.209	0.000	93	312973	10.0	9.28	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.288	3.288	0.000	93	555503	10.0	8.84	
16 Acrolein	56	3.373	3.373	0.000	100	2256730	500.0	366.9	
18 1,1-Dichloroethene	96	3.513	3.513	0.000	98	400893	10.0	8.79	
19 Acetone	43	3.532	3.532	0.000	100	620941	100.0	86.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.544	3.544	0.000	92	375210	10.0	8.44	
21 Isopropyl alcohol	45	3.690	3.690	0.000	39	262358	200.0	279.5	
22 Iodomethane	142	3.708	3.708	0.000	99	714985	10.0	9.02	
23 Ethyl bromide	108	3.733	3.733	0.000	98	352584	10.0	8.80	
24 Carbon disulfide	76	3.812	3.812	0.000	99	1131711	10.0	9.27	
25 Methyl acetate	43	3.958	3.958	0.000	98	152170	10.0	8.03	
27 3-Chloro-1-propene	41	3.989	3.989	0.000	93	709876	10.0	8.97	
* 29 t-Butyl alcohol-d10 (IS)	65	4.166	4.166	0.000	98	111918	50.0	50.0	
28 Methylene Chloride	84	4.166	4.166	0.000	95	429894	10.0	9.10	
31 2-Methyl-2-propanol	59	4.294	4.294	0.000	100	472328	200.0	195.1	
32 Acrylonitrile	53	4.507	4.507	0.000	99	211774	25.0	21.9	
33 Methyl tert-butyl ether	73	4.568	4.568	0.000	95	950285	10.0	9.32	
34 trans-1,2-Dichloroethene	96	4.592	4.592	0.000	98	452462	10.0	8.93	
35 Hexane	57	5.013	5.013	0.000	94	608529	10.0	8.59	
37 1,1-Dichloroethane	63	5.245	5.245	0.000	96	876363	10.0	9.26	
38 Isopropyl ether	45	5.300	5.300	0.000	96	1472692	10.0	9.14	
39 2-Chloro-1,3-butadiene	53	5.348	5.348	0.000	90	730187	10.0	9.44	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 Tert-butyl ethyl ether	59	5.830	5.830	0.000	98	1285565	10.0	9.02	
42 2-Butanone (MEK)	43	6.019	6.019	0.000	100	1141366	100.0	91.6	
43 cis-1,2-Dichloroethene	96	6.068	6.068	0.000	83	499440	10.0	8.98	
44 2,2-Dichloropropane	77	6.080	6.080	0.000	86	735331	10.0	9.27	
45 Propionitrile	54	6.104	6.104	0.000	99	634940	200.0	198.8	
48 Methacrylonitrile	67	6.318	6.318	0.000	92	1118310	100.0	81.1	
49 Chlorobromomethane	128	6.397	6.397	0.000	94	208396	10.0	9.38	
50 Tetrahydrofuran	71	6.403	6.403	0.000	78	146313	50.0	41.1	
52 Chloroform	83	6.549	6.549	0.000	93	841415	10.0	9.42	
$ 53 Dibromofluoromethane (Surr)	113	6.757	6.757	0.000	94	432122	10.0	9.74	
54 1,1,1-Trichloroethane	97	6.781	6.781	0.000	98	764638	10.0	9.20	
55 Cyclohexane	56	6.879	6.879	0.000	91	790555	10.0	8.38	
56 1,1-Dichloropropene	75	6.988	6.988	0.000	97	711914	10.0	9.47	
57 Carbon tetrachloride	117	6.988	6.988	0.000	96	667805	10.0	9.29	
58 Isobutyl alcohol	41	7.122	7.122	0.000	95	397503	500.0	503.3	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.214	7.214	0.000	96	84766	10.0	10.5	
60 Benzene	78	7.244	7.244	0.000	97	2025223	10.0	9.25	
62 1,2-Dichloroethane	62	7.311	7.311	0.000	97	514773	10.0	10.8	
64 Tert-amyl methyl ether	73	7.433	7.433	0.000	98	1128925	10.0	9.30	
* 65 Fluorobenzene (IS)	96	7.653	7.653	0.000	99	1753053	10.0	10.0	
66 n-Heptane	43	7.665	7.665	0.000	92	648417	10.0	8.36	
68 n-Butanol	56	8.000	8.000	0.000	88	627841	875.0	929.7	
69 Trichloroethene	95	8.128	8.128	0.000	98	538149	10.0	9.33	
70 Methylcyclohexane	83	8.439	8.439	0.000	93	828037	10.0	8.51	
71 1,2-Dichloropropane	63	8.458	8.458	0.000	95	534409	10.0	9.72	
72 2-ethoxy-2-methyl butane	87	8.470	8.470	0.000	90	709477	10.0	9.21	
74 Methyl methacrylate	69	8.543	8.543	0.000	90	214642	10.0	7.81	
73 1,4-Dioxane	88	8.549	8.549	0.000	38	72802	500.0	415.0	
75 Dibromomethane	93	8.567	8.567	0.000	96	225228	10.0	9.84	
77 Dichlorobromomethane	83	8.799	8.799	0.000	99	613269	10.0	9.91	
78 2-Nitropropane	41	9.061	9.061	0.000	98	304772	50.0	44.7	
80 1-Bromo-2-chloroethane	63	9.195	9.195	0.000	98	522563	10.0	10.3	
81 cis-1,3-Dichloropropene	75	9.348	9.348	0.000	96	784507	10.0	10.1	
83 4-Methyl-2-pentanone (MIBK)	43	9.512	9.512	0.000	97	2931696	100.0	86.8	
$ 84 Toluene-d8 (Surr)	98	9.658	9.658	0.000	93	1847377	10.0	10.5	
85 Toluene	92	9.732	9.732	0.000	98	1294133	10.0	9.95	
86 trans-1,3-Dichloropropene	75	9.988	9.988	0.000	93	623519	10.0	11.3	
105 Ethyl methacrylate	69	10.055	10.055	0.000	89	461350	10.0	10.9	
106 1,1,2-Trichloroethane	97	10.195	10.195	0.000	90	326553	10.0	10.6	
107 Tetrachloroethene	166	10.286	10.286	0.000	98	611439	10.0	10.2	
108 1,3-Dichloropropane	76	10.360	10.360	0.000	89	583672	10.0	11.0	
109 2-Hexanone	43	10.402	10.402	0.000	98	2041714	100.0	91.1	
111 Chlorodibromomethane	129	10.573	10.573	0.000	90	424325	10.0	11.1	
112 Ethylene Dibromide	107	10.683	10.683	0.000	98	318112	10.0	11.3	
* 113 Chlorobenzene-d5 (IS)	117	11.109	11.109	0.000	85	1431417	10.0	10.0	
114 1-Chlorohexane	91	11.122	11.122	0.000	98	758280	10.0	9.43	
115 Chlorobenzene	112	11.140	11.140	0.000	95	1410648	10.0	10.2	
116 1,1,1,2-Tetrachloroethane	131	11.219	11.219	0.000	94	488400	10.0	10.3	
118 Ethylbenzene	91	11.225	11.225	0.000	98	2542056	10.0	10.0	
119 m-Xylene & p-Xylene	106	11.341	11.341	0.000	99	1977788	20.0	20.4	
120 o-Xylene	106	11.664	11.664	0.000	97	945709	10.0	10.1	
121 Styrene	104	11.682	11.682	0.000	95	1563818	10.0	10.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
122 Bromoform	173	11.841	11.841	0.000	97	247165	10.0	11.2	
123 Isopropylbenzene	105	11.963	11.963	0.000	96	2493521	10.0	9.85	
$ 126 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	91	708611	10.0	9.97	
127 1,1,2,2-Tetrachloroethane	83	12.207	12.207	0.000	92	393759	10.0	10.5	
128 Bromobenzene	156	12.225	12.225	0.000	95	563611	10.0	10.0	
129 trans-1,4-Dichloro-2-butene	53	12.231	12.231	0.000	92	810394	100.0	69.5	
130 1,2,3-Trichloropropane	110	12.256	12.256	0.000	83	101486	10.0	10.8	
131 N-Propylbenzene	91	12.292	12.292	0.000	99	3043964	10.0	9.73	
132 2-Chlorotoluene	126	12.371	12.371	0.000	97	596769	10.0	9.91	
133 1,3,5-Trimethylbenzene	105	12.426	12.426	0.000	94	2080506	10.0	9.54	
134 4-Chlorotoluene	126	12.463	12.463	0.000	97	605809	10.0	10.0	
135 tert-Butylbenzene	134	12.670	12.670	0.000	93	469260	10.0	9.73	
136 Pentachloroethane	167	12.701	12.701	0.000	92	361204	10.0	10.7	
137 1,2,4-Trimethylbenzene	105	12.707	12.707	0.000	97	2133343	10.0	9.69	
138 sec-Butylbenzene	105	12.829	12.829	0.000	94	2659146	10.0	9.31	
139 1,3-Dichlorobenzene	146	12.932	12.932	0.000	98	1153454	10.0	9.93	
140 4-Isopropyltoluene	119	12.938	12.938	0.000	97	2337307	10.0	9.54	
* 141 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	94	818898	10.0	10.0	
142 1,4-Dichlorobenzene	146	13.005	13.005	0.000	94	1149303	10.0	9.97	
143 1,2,3-Trimethylbenzene	120	13.012	13.012	0.000	98	903069	10.0	9.62	
144 Benzyl chloride	126	13.079	13.079	0.000	98	172663	10.0	11.3	
145 p-Diethylbenzene	119	13.133	13.133	0.000	92	1353509	10.0	9.56	
146 n-Butylbenzene	92	13.225	13.225	0.000	97	1139532	10.0	9.22	
147 1,2-Dichlorobenzene	146	13.261	13.261	0.000	98	1023190	10.0	9.94	
149 1,2-Dibromo-3-Chloropropane	155	13.798	13.798	0.000	86	56636	10.0	11.5	
150 1,3,5-Trichlorobenzene	180	13.926	13.926	0.000	98	843549	10.0	9.34	
151 1,2,4-Trichlorobenzene	180	14.347	14.347	0.000	94	688914	10.0	9.06	
152 Hexachlorobutadiene	225	14.426	14.426	0.000	96	270311	10.0	7.32	
153 Naphthalene	128	14.523	14.523	0.000	97	1146044	10.0	9.33	
154 1,2,3-Trichlorobenzene	180	14.670	14.670	0.000	96	563316	10.0	8.72	
155 2-Methylnaphthalene	142	15.279	15.279	0.000	92	519979	10.0	7.03	
158 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MSV_LL_#2_826_00058	Amount Added: 20.00	Units: uL	
MSV_LL_#1_826_00054	Amount Added: 20.00	Units: uL	
MSV_LL_GAS826_00115	Amount Added: 20.00	Units: uL	
MSV_HP25_ISSS_00057	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 06-Oct-2022 13:57:51 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X02.D

Injection Date: 05-Oct-2022 09:46:30 Instrument ID: 19094 Operator ID: knk41612

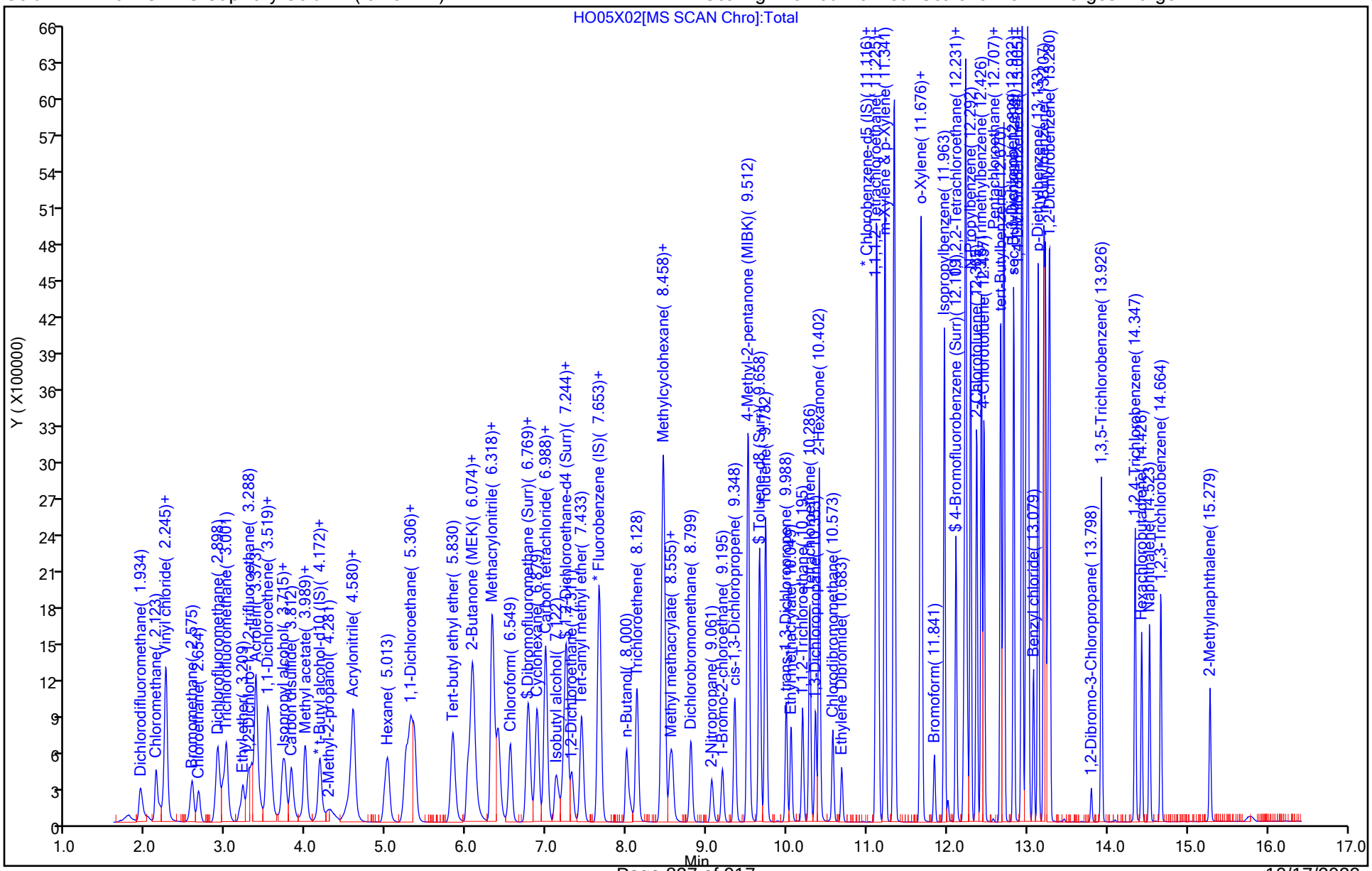
Lims ID: CCVIS VSTD10 Worklist Smp#: 3

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSV_19094_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22T04.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	22-Aug-2022 15:51:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0064657-001				
Misc. Info.:	BFB				
Operator ID:	knk41612	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	30-Aug-2022 13:30:27	Calib Date:	22-Aug-2022 22:26:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.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
$ 165 BFB	95	4.946	4.946	0.000	0	89754	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

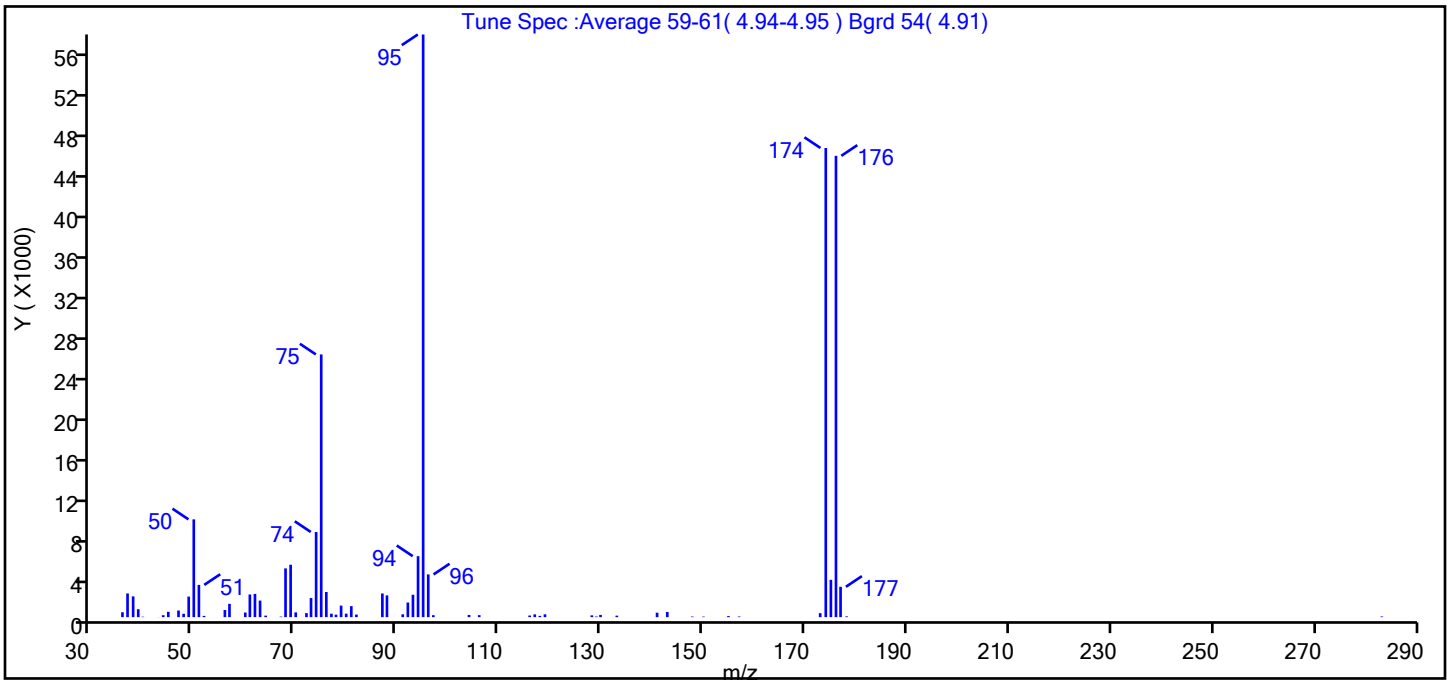
MSV_V_BFB_00008 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22T04.D
Injection Date: 22-Aug-2022 15:51:30 Instrument ID: 10193
Lims ID: BFB
Client ID:
Operator ID: knk41612 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 165 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.8
75	30 to 60% of m/z 95	45.1
96	5 to 9% of m/z 95	7.3
173	Less than 2% of m/z 174	0.7 (0.9)
174	50 to 120% of m/z 95	80.5
175	5 to 9% of m/z 174	6.4 (8.0)
176	Greater than 95% but less than 101% of m/z 174	79.2 (98.3)
177	5 to 9% of m/z 176	5.2 (6.6)

Data File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22T04.D\MSV_10193_25mL.rslt\spectra.d
Injection Date: 22-Aug-2022 15:51:30
Spectrum: Tune Spec :Average 59-61(4.94-4.95) Bgrd 54(4.91)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 68

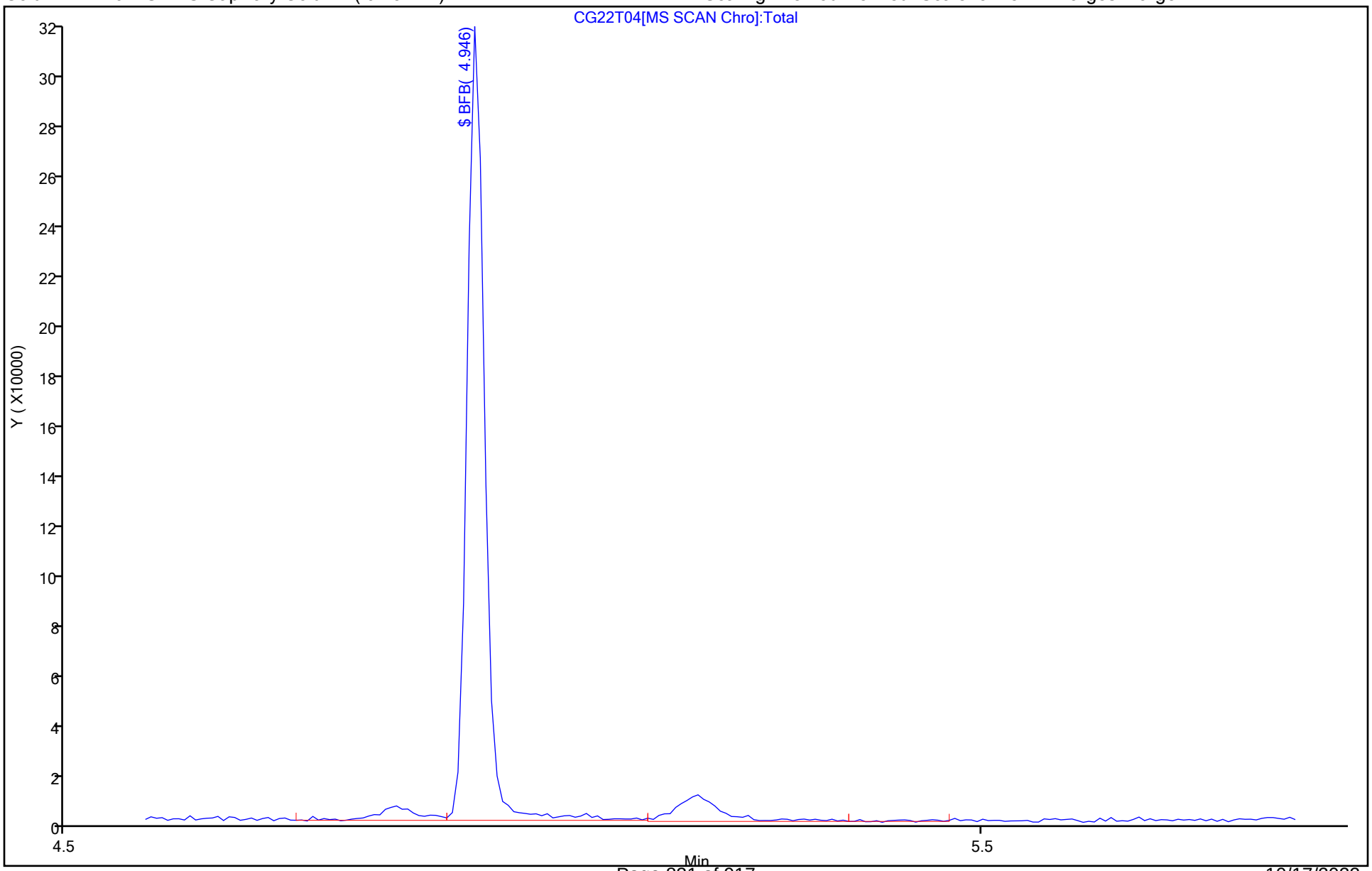
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	484	61.00	2245	81.00	1091	128.00	179
37.00	2348	62.00	2302	82.00	257	129.00	61
38.00	2059	63.00	1641	87.00	2345	130.00	220
39.00	788	64.00	151	88.00	2153	133.00	148
40.00	44	67.00	53	91.00	281	141.00	442
43.00	10	68.00	4831	92.00	1449	143.00	507
44.00	192	69.00	5193	93.00	2219	148.00	59
45.00	527	70.00	471	94.00	6043	150.00	53
47.00	657	72.00	400	95.00	57736	155.00	105
48.00	332	73.00	1893	96.00	4234	157.00	63
49.00	2036	74.00	8439	97.00	193	173.00	396
50.00	9690	75.00	26032	104.00	219	174.00	46488
51.00	3195	76.00	2490	106.00	197	175.00	3698
52.00	124	77.00	339	116.00	161	176.00	45712
56.00	707	78.00	246	117.00	275	177.00	3008
57.00	1319	79.00	1143	118.00	127	178.00	73
60.00	457	80.00	344	119.00	279	283.00	66

Report Date: 30-Aug-2022 13:30:27 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22T04.D				
Injection Date:	22-Aug-2022 15:51:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20221007-68180.b\CC07T01.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	07-Oct-2022 10:39:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0068180-001				
Misc. Info.:	BFB				
Operator ID:	knk41612	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20221007-68180.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Oct-2022 12:09:54	Calib Date:	22-Aug-2022 22:26:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1660				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 170 BFB	95	4.928	4.928	0.000	94	230711	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

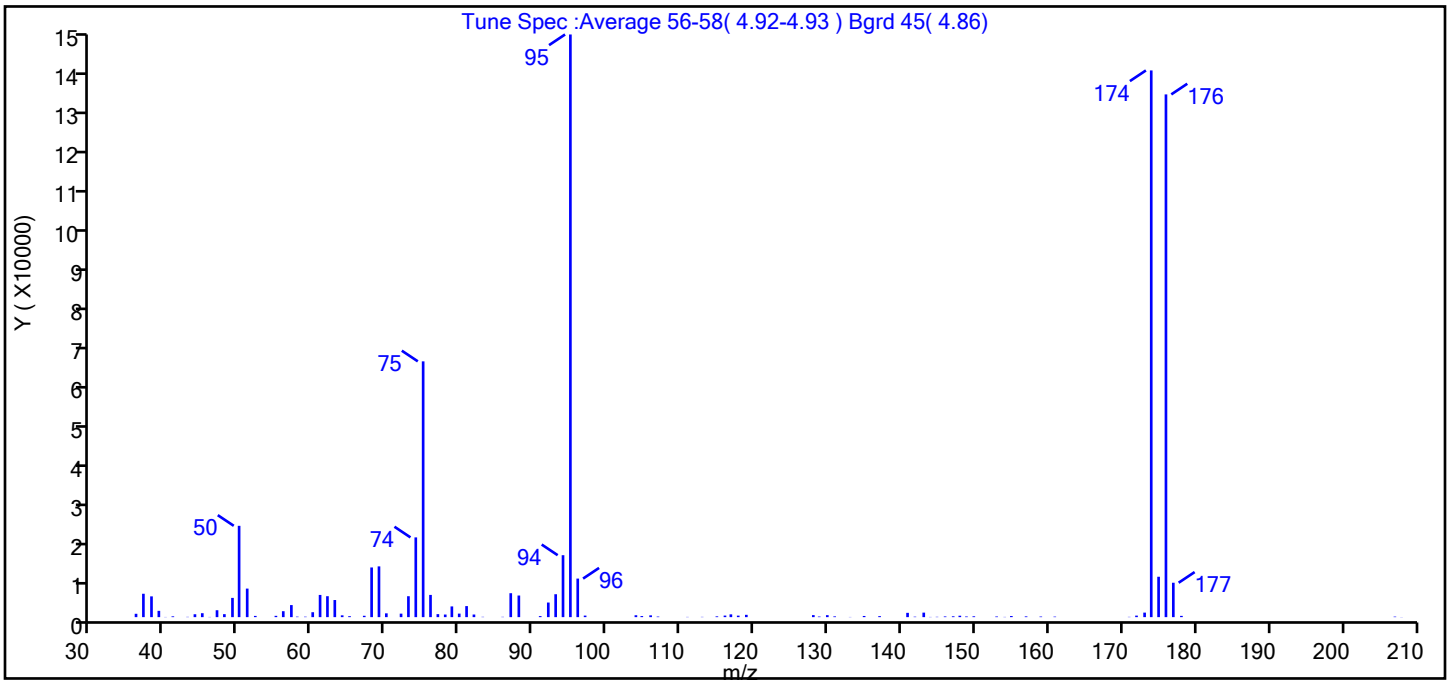
MSV_V_BFB_00008 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20221007-68180.b\CC07T01.D
Injection Date: 07-Oct-2022 10:39:30 Instrument ID: 10193
Lims ID: BFB
Client ID:
Operator ID: knk41612 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 170 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.7
75	30 to 60% of m/z 95	43.9
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.8 (0.8)
174	50 to 120% of m/z 95	93.8
175	5 to 9% of m/z 174	6.9 (7.4)
176	Greater than 95% but less than 101% of m/z 174	89.7 (95.6)
177	5 to 9% of m/z 176	5.9 (6.6)

Data File: \\chromfs\Lancaster\ChromData\10193\20221007-68180.b\CC07T01.D\MSV_10193_25mL.rslt\spectra.d
Injection Date: 07-Oct-2022 10:39:30
Spectrum: Tune Spec :Average 56-58(4.92-4.93) Bgrd 45(4.86)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 97

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	843	64.00	453	95.00	146240	145.00	82
37.00	5871	65.00	240	96.00	9676	146.00	175
38.00	5214	67.00	343	97.00	388	147.00	211
39.00	1582	68.00	12470	104.00	476	148.00	357
40.00	46	69.00	12740	105.00	270	149.00	165
41.00	201	70.00	956	106.00	449	150.00	211
43.00	70	72.00	879	107.00	143	153.00	167
44.00	728	73.00	5253	111.00	57	154.00	57
45.00	989	74.00	20016	113.00	67	155.00	274
46.00	50	75.00	64200	115.00	201	157.00	190
47.00	1735	76.00	5579	116.00	393	159.00	150
48.00	750	77.00	754	117.00	698	161.00	131
49.00	4831	78.00	655	118.00	381	171.00	69
50.00	22920	79.00	2693	119.00	581	172.00	385
51.00	7164	80.00	887	128.00	509	173.00	1137
52.00	311	81.00	2774	129.00	148	174.00	137216
55.00	329	82.00	661	130.00	496	175.00	10138
56.00	1492	83.00	78	131.00	190	176.00	131200
57.00	3026	86.00	75	133.00	47	177.00	8636
58.00	127	87.00	6008	135.00	292	178.00	320
59.00	111	88.00	5427	137.00	254	207.00	131
60.00	1236	91.00	262	141.00	1079	208.00	33
61.00	5574	92.00	3665	142.00	115		
62.00	5256	93.00	5752	143.00	1133		
63.00	4295	94.00	15547	144.00	51		

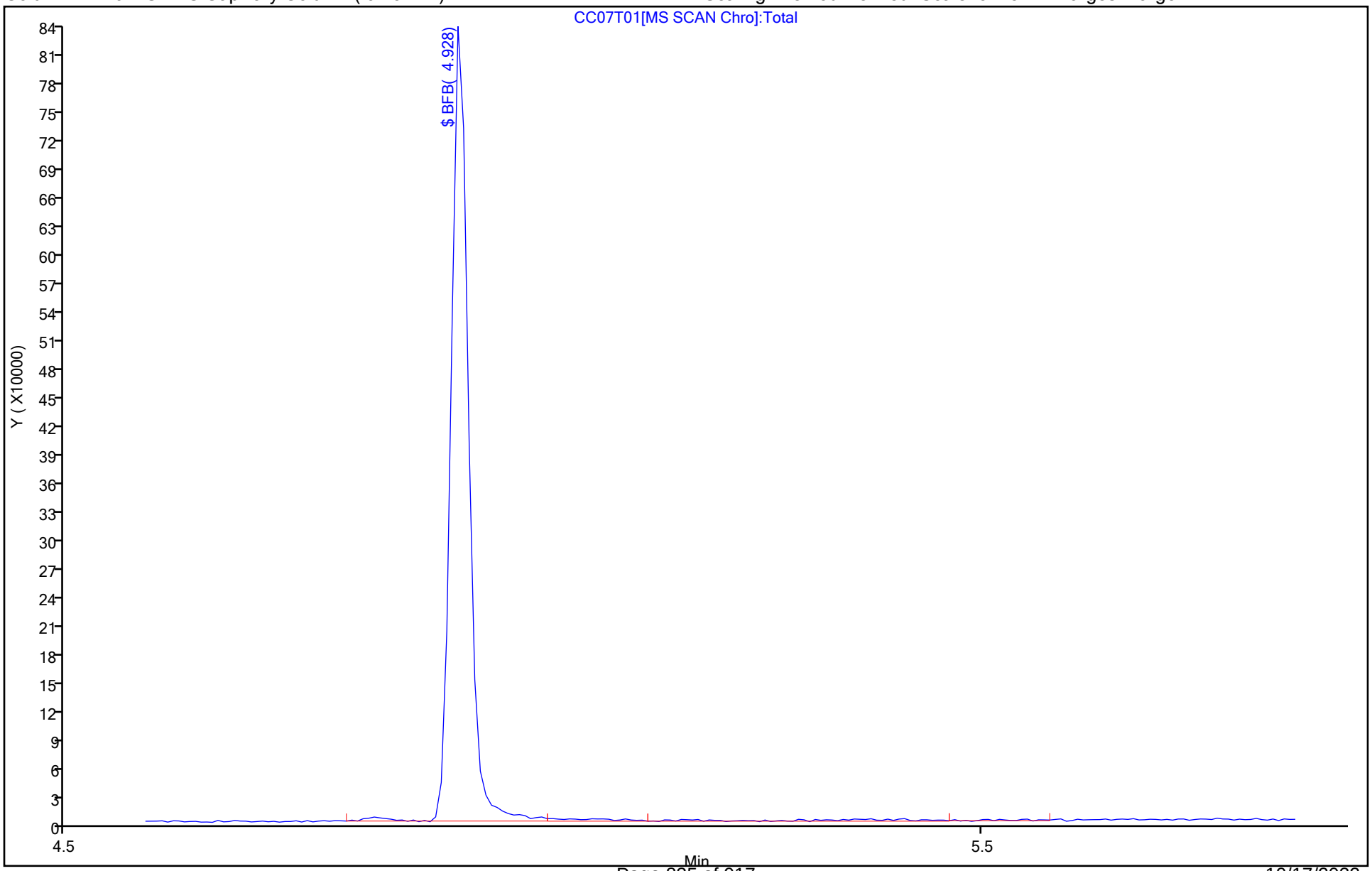
Report Date: 07-Oct-2022 12:09:54 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20221007-68180.b\CC07T01.D

Injection Date:	07-Oct-2022 10:39:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11T03.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	11-Jul-2022 13:17:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0061489-001				
Misc. Info.:	BFB				
Operator ID:	kas02648	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	12-Jul-2022 11:53:41	Calib Date:	11-Jul-2022 18:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1678				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 165 BFB	95	5.154	5.154	0.000	91	142888	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

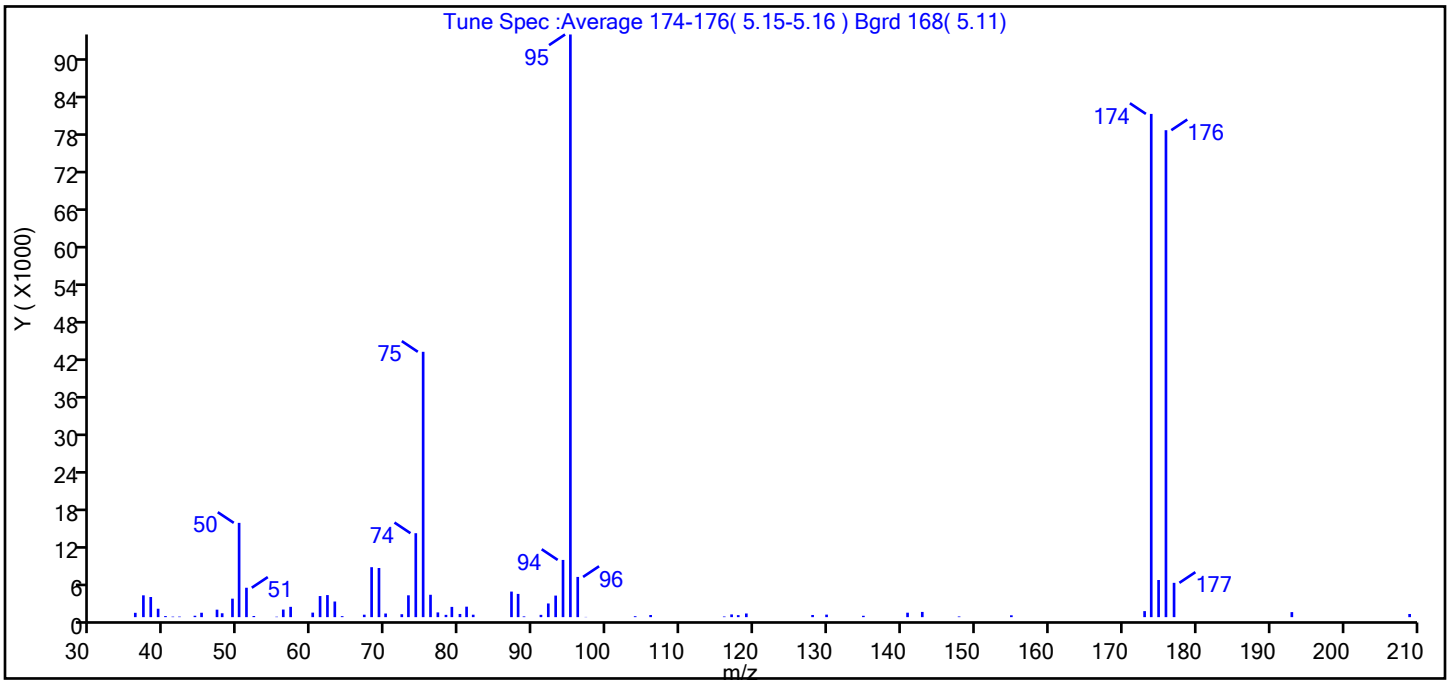
MSV_V_BFB_00008 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11T03.D
Injection Date: 11-Jul-2022 13:17:30 Instrument ID: 19094
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_19094_25mL Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 165 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	45.5
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	1.0 (1.2)
174	50 to 120% of m/z 95	86.4
175	5 to 9% of m/z 174	6.4 (7.4)
176	Greater than 95% but less than 101% of m/z 174	83.6 (96.8)
177	5 to 9% of m/z 176	5.9 (7.0)

Data File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11T03.D\MSV_19094_25mL.rslt\spectra.d
Injection Date: 11-Jul-2022 13:17:30
Spectrum: Tune Spec :Average 174-176(5.15-5.16) Bgrd 168(5.11)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 68

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	695	57.00	1653	79.00	1645	117.00	438
37.00	3502	60.00	727	80.00	510	118.00	322
38.00	3232	61.00	3386	81.00	1681	119.00	588
39.00	1351	62.00	3541	82.00	393	128.00	347
40.00	173	63.00	2508	87.00	4103	130.00	405
41.00	83	64.00	160	88.00	3731	135.00	218
42.00	90	67.00	394	89.00	119	141.00	714
44.00	225	68.00	8019	91.00	368	143.00	839
45.00	706	69.00	7887	92.00	2197	148.00	109
47.00	1201	70.00	582	93.00	3461	155.00	296
48.00	623	72.00	470	94.00	9186	173.00	966
49.00	2967	73.00	3505	95.00	93544	174.00	80792
50.00	15136	74.00	13476	96.00	6457	175.00	5961
51.00	4721	75.00	42600	97.00	34	176.00	78176
52.00	181	76.00	3592	104.00	150	177.00	5509
55.00	69	77.00	760	106.00	344	193.00	809
56.00	1220	78.00	370	116.00	104	209.00	506

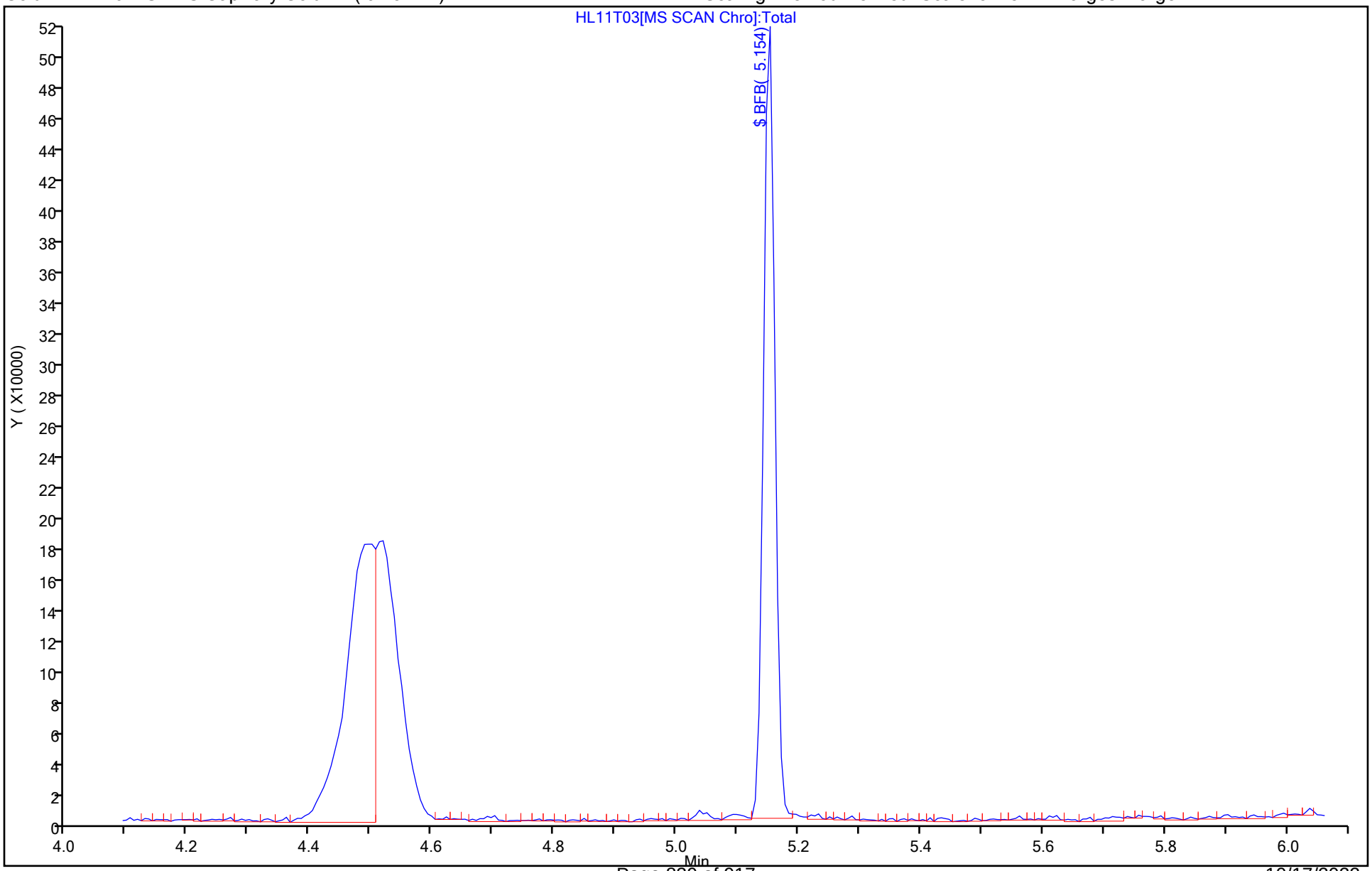
Report Date: 12-Jul-2022 11:53:41 Chrom Revision: 2.3 08-Jul-2022 13:26:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\HL11T03.D

Injection Date:	11-Jul-2022 13:17:30	Instrument ID:	19094	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_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20220714-61834.b\copy_HL14T01.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	14-Jul-2022 19:09:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	BFB				
Operator ID:	MEC29284	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20220714-61834.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	14-Jul-2022 20:50:16	Calib Date:	11-Jul-2022 18:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1670				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 165 BFB	95	5.148	5.148	0.000	87	217282	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

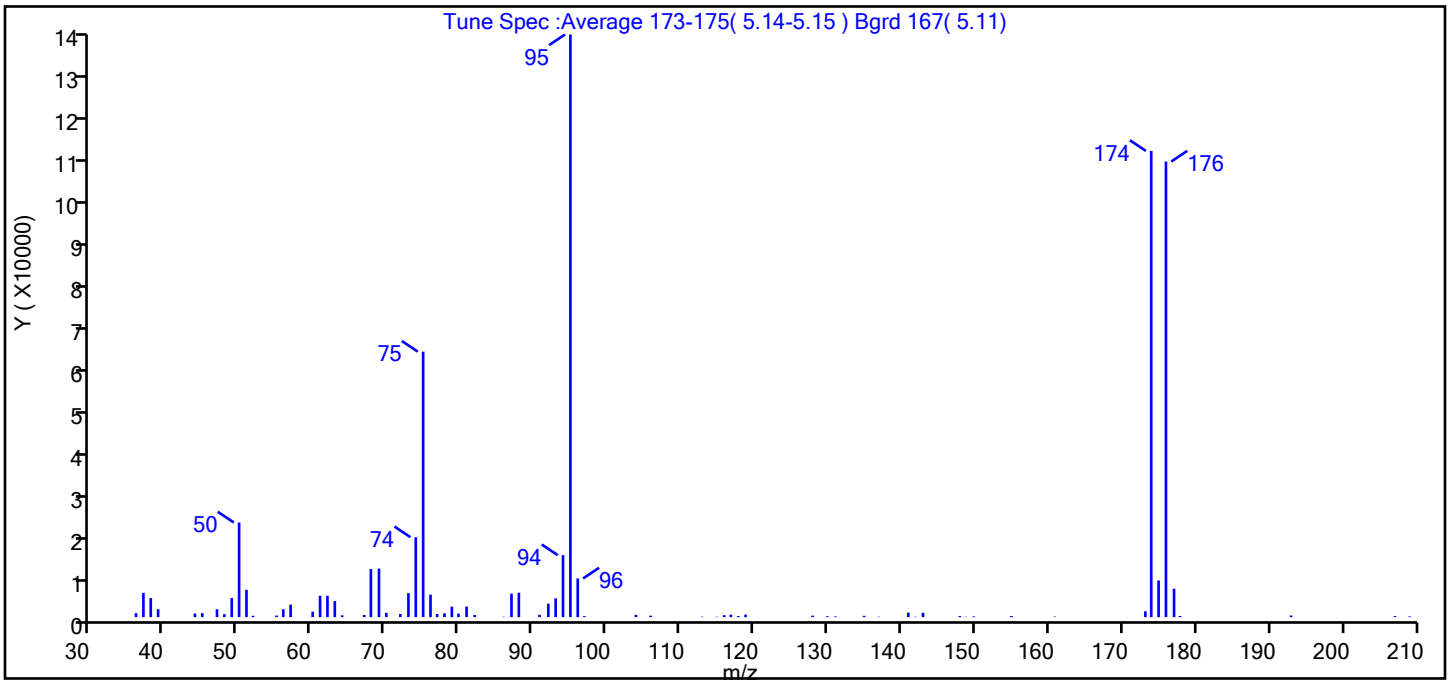
MSV_V_BFB_00008 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20220714-61834.b\copy_HL14T01.D
Injection Date: 14-Jul-2022 19:09:30 Instrument ID: 19094
Lims ID: bfb
Client ID:
Operator ID: MEC29284 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 165 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	45.6
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	1.0 (1.3)
174	50 to 120% of m/z 95	80.0
175	5 to 9% of m/z 174	6.3 (7.9)
176	Greater than 95% but less than 101% of m/z 174	78.2 (97.7)
177	5 to 9% of m/z 176	4.9 (6.2)

Data File: \\chromfs\Lancaster\ChromData\19094\20220714-61834.b\copy_HL14T01.D\MSV_19094_25mL.rslt\spec
Injection Date: 14-Jul-2022 19:09:30
Spectrum: Tune Spec :Average 173-175(5.14-5.15) Bgrd 167(5.11)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 75

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	949	64.00	430	91.00	552	137.00	93
37.00	5703	67.00	499	92.00	3178	141.00	1057
38.00	4480	68.00	11322	93.00	4431	142.00	88
39.00	1876	69.00	11439	94.00	14605	143.00	1023
44.00	845	70.00	999	95.00	137216	148.00	258
45.00	933	72.00	745	96.00	9108	149.00	85
47.00	1853	73.00	5647	97.00	244	150.00	181
48.00	699	74.00	18824	104.00	539	155.00	272
49.00	4499	75.00	62520	106.00	345	161.00	122
50.00	22296	76.00	5309	113.00	101	173.00	1373
51.00	6441	77.00	732	115.00	99	174.00	109792
52.00	325	78.00	920	116.00	465	175.00	8634
55.00	376	79.00	2467	117.00	593	176.00	107296
56.00	1858	80.00	822	118.00	264	177.00	6682
57.00	2957	81.00	2489	119.00	592	178.00	274
60.00	1291	82.00	506	128.00	361	193.00	390
61.00	5042	86.00	86	130.00	222	207.00	254
62.00	5025	87.00	5525	131.00	173	209.00	168
63.00	3790	88.00	5746	135.00	309		

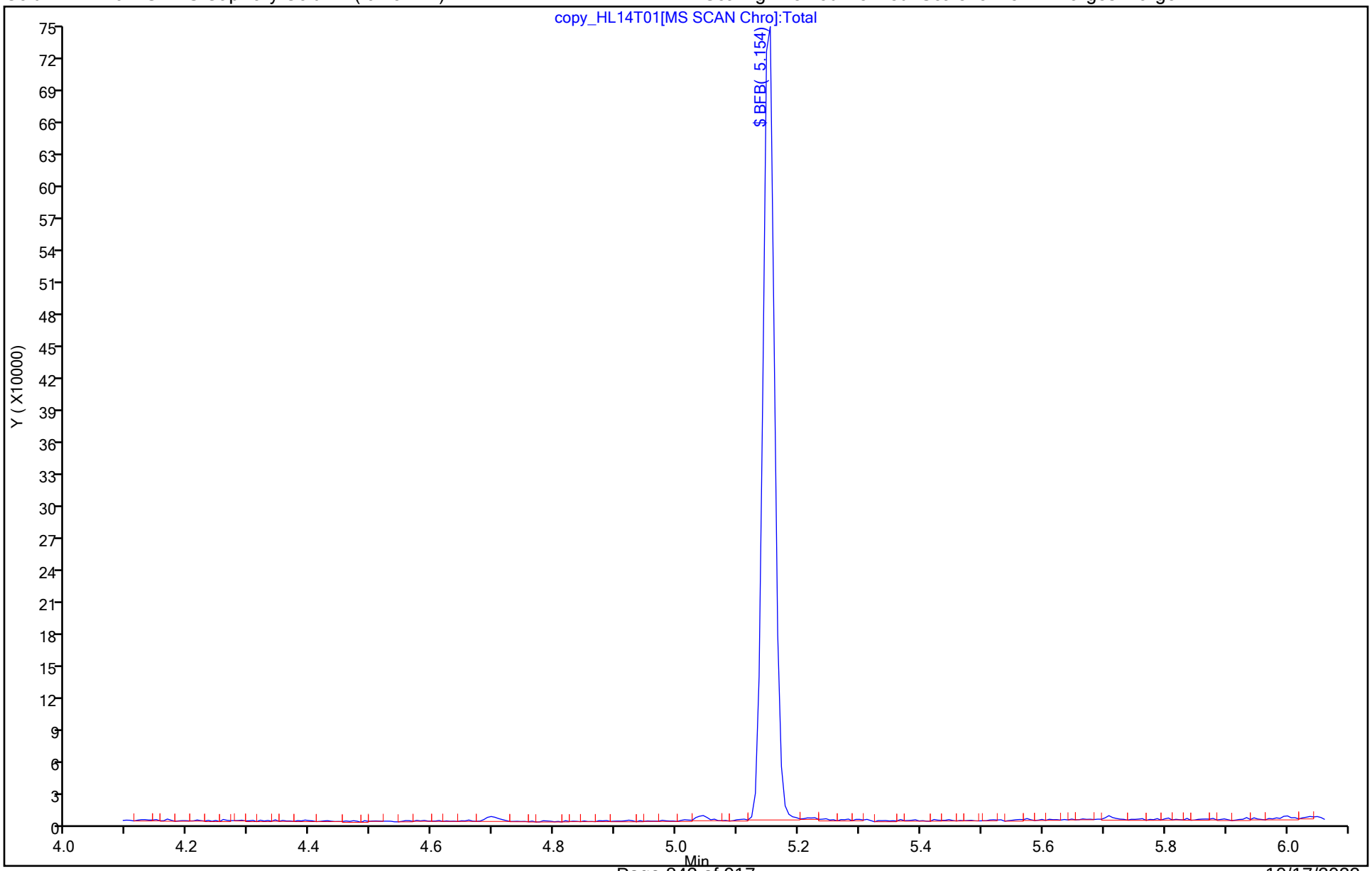
Report Date: 14-Jul-2022 20:50:17 Chrom Revision: 2.3 08-Jul-2022 13:26:50

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20220714-61834.b\copy_HL14T01.D

Injection Date:	14-Jul-2022 19:09:30	Instrument ID:	19094	Operator ID:	MEC29284
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05T01.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	05-Oct-2022 09:13:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0067970-001				
Misc. Info.:	BFB				
Operator ID:	knk41612	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	05-Oct-2022 10:57:05	Calib Date:	11-Jul-2022 18:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.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
$ 167 BFB	95	5.117	5.117	0.000	92	247178	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

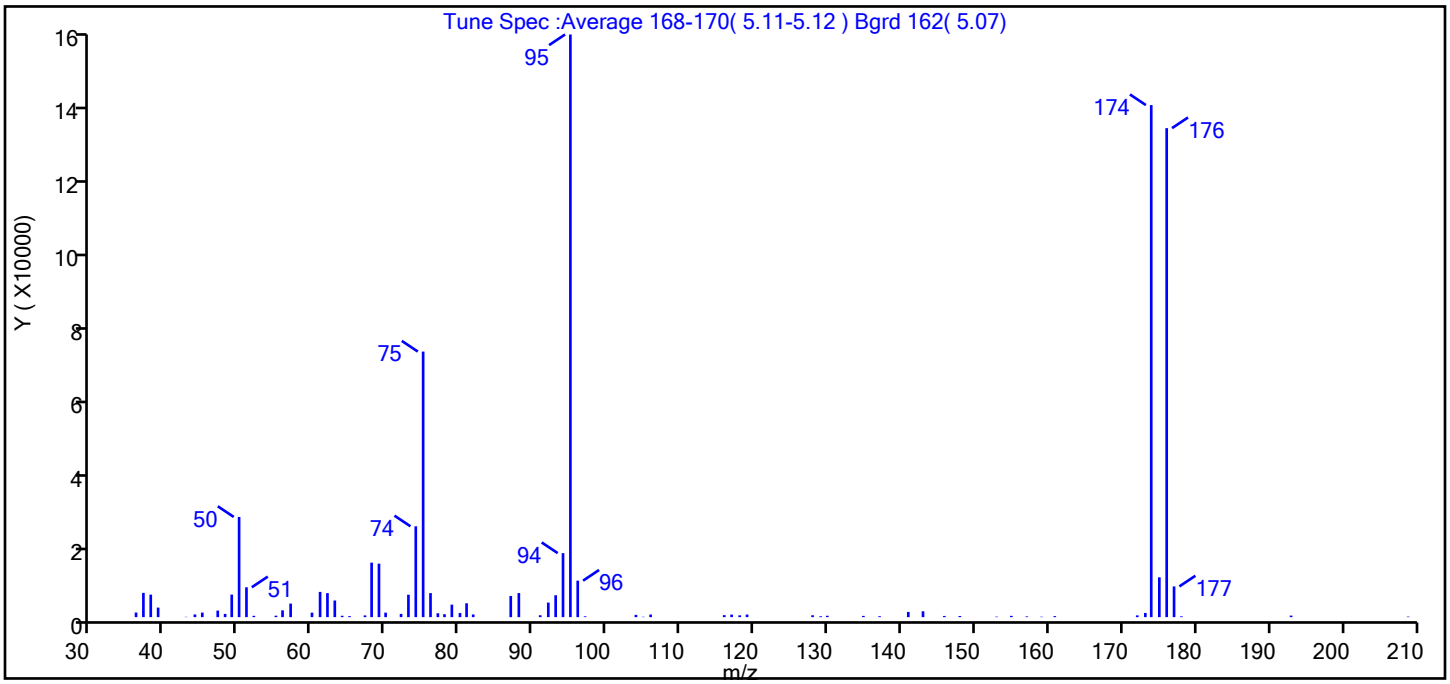
MSV_V_BFB_00008 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05T01.D
Injection Date: 05-Oct-2022 09:13:30 Instrument ID: 19094
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_19094_25mL Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 167 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.2
75	30 to 60% of m/z 95	45.6
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.7 (0.8)
174	50 to 120% of m/z 95	87.9
175	5 to 9% of m/z 174	6.8 (7.8)
176	Greater than 95% but less than 101% of m/z 174	83.9 (95.5)
177	5 to 9% of m/z 176	5.3 (6.3)

Data File: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05T01.D\MSV_19094_25mL.rslt\spectra.d
Injection Date: 05-Oct-2022 09:13:30
Spectrum: Tune Spec :Average 168-170(5.11-5.12) Bgrd 162(5.07)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 76

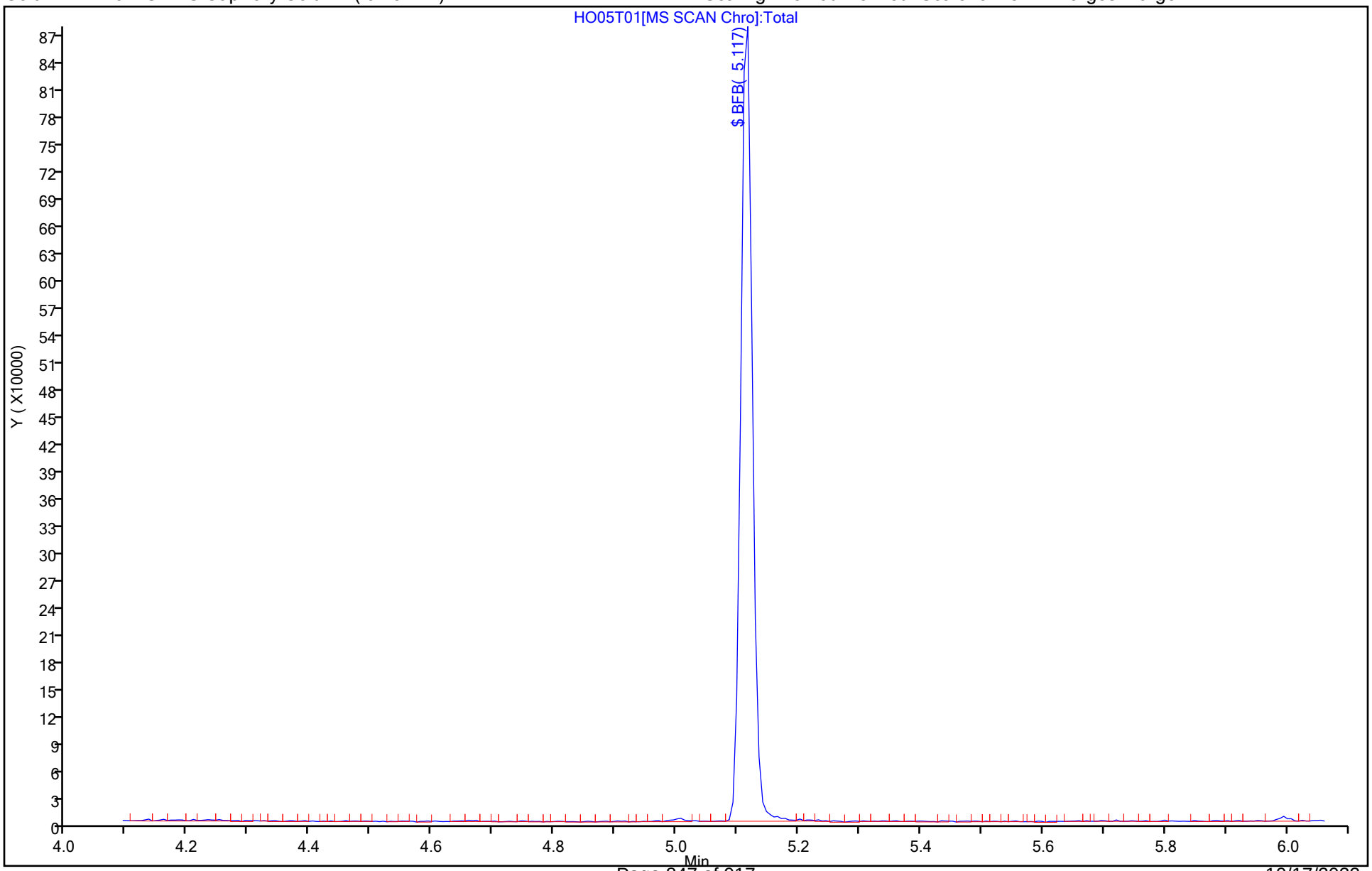
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1260	63.00	4524	88.00	6547	137.00	244
37.00	6598	64.00	373	91.00	517	141.00	1417
38.00	6129	65.00	273	92.00	3956	143.00	1587
39.00	2596	67.00	469	93.00	5962	146.00	325
43.00	84	68.00	14823	94.00	17416	148.00	301
44.00	736	69.00	14551	95.00	158464	153.00	141
45.00	1241	70.00	1221	96.00	9924	155.00	353
47.00	1781	72.00	886	97.00	223	157.00	202
48.00	880	73.00	6095	104.00	611	159.00	111
49.00	6131	74.00	24704	105.00	101	161.00	282
50.00	27248	75.00	72224	106.00	704	172.00	481
51.00	8124	76.00	6539	116.00	551	173.00	1137
52.00	359	77.00	1056	117.00	695	174.00	139264
55.00	401	78.00	793	118.00	494	175.00	10826
56.00	1852	79.00	3398	119.00	711	176.00	132992
57.00	3691	80.00	1117	128.00	514	177.00	8354
60.00	1227	81.00	3773	129.00	236	178.00	217
61.00	6866	82.00	730	130.00	382	193.00	421
62.00	6538	87.00	5757	135.00	343	209.00	146

Report Date: 05-Oct-2022 10:57:05 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05T01.D				
Injection Date:	05-Oct-2022 09:13:30	Instrument ID:	19094	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_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-99372-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-303234/6

Matrix: Water Lab File ID: HO05X05.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 10:47

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.: 303234 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	0.138	J	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.: 410-99372-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-303234/6

Matrix: Water Lab File ID: HO05X05.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 10:47

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.: 303234 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 05-Oct-2022 10:47:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0067970-006
Misc. Info.: MB
Operator ID: knk41612 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2022 13:57:50 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: DVW2 Date: 05-Oct-2022 11:35:59

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		1.934					ND	
3 Chlorodifluoromethane	51		1.934					ND	
4 Dimethyl ether	45		2.001					ND	
5 Chloromethane	50		2.123					ND	
7 Vinyl chloride	62		2.239					ND	
6 Butadiene	39		2.251					ND	7
8 2-Chloro-1,1,1-Trifluoroethane	118		2.312					ND	
9 Bromomethane	94		2.575					ND	
10 Chloroethane	64		2.654					ND	
11 Dichlorofluoromethane	67		2.885					ND	
12 Trichlorofluoromethane	101		2.959					ND	
13 Ethanol	45		3.111					ND	
14 Ethyl ether	59		3.209					ND	
15 1,2-Dichloro-1,1,2-trifluoroetha	67		3.288					ND	
16 Acrolein	56		3.373					ND	
18 1,1-Dichloroethene	96		3.513					ND	
19 Acetone	43		3.532					ND	7
20 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.544					ND	
21 Isopropyl alcohol	45		3.690					ND	
22 Iodomethane	142		3.708					ND	
23 Ethyl bromide	108		3.733					ND	
24 Carbon disulfide	76	3.806	3.812	-0.006	99	16465		0.1380	M
26 Acetonitrile	41		3.897					ND	
25 Methyl acetate	43		3.958					ND	
27 3-Chloro-1-propene	41		3.989					ND	
* 29 t-Butyl alcohol-d10 (IS)	65	4.160	4.166	-0.006	19	103427	50.0	50.0	
28 Methylene Chloride	84		4.166					ND	
31 2-Methyl-2-propanol	59		4.294					ND	
32 Acrylonitrile	53		4.507					ND	
33 Methyl tert-butyl ether	73		4.568					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		4.592				ND		
35 Hexane	57		5.013				ND		
36 Vinyl acetate	43		5.214				ND		
37 1,1-Dichloroethane	63		5.245				ND		
38 Isopropyl ether	45		5.300				ND		
39 2-Chloro-1,3-butadiene	53		5.348				ND		
41 Tert-butyl ethyl ether	59		5.830				ND		
42 2-Butanone (MEK)	43		6.019				ND		7
43 cis-1,2-Dichloroethene	96		6.068				ND		
44 2,2-Dichloropropane	77		6.080				ND		
46 Ethyl acetate	43		6.098				ND		
45 Propionitrile	54		6.104				ND		
S 47 1,2-Dichloroethene, Total	100		6.155				ND		7
48 Methacrylonitrile	67		6.318				ND		
49 Chlorobromomethane	128		6.397				ND		
50 Tetrahydrofuran	71		6.403				ND		
51 Methyl acrylate	55		6.482				ND		
52 Chloroform	83		6.549				ND		
$ 53 Dibromofluoromethane (Surr)	113	6.763	6.757	0.006	94	427204	10.0	9.85	
54 1,1,1-Trichloroethane	97		6.781				ND		
55 Cyclohexane	56		6.879				ND		
56 1,1-Dichloropropene	75		6.988				ND		
57 Carbon tetrachloride	117		6.988				ND		
58 Isobutyl alcohol	41		7.122				ND		
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.220	7.214	0.006	52	82659	10.0	10.4	
60 Benzene	78		7.244				ND		
61 1-Chlorobutane	56		7.250				ND		
62 1,2-Dichloroethane	62		7.311				ND		7
63 Isopropyl acetate	43		7.324				ND		
64 Tert-amyl methyl ether	73		7.433				ND		
* 65 Fluorobenzene (IS)	96	7.653	7.653	0.000	99	1713624	10.0	10.0	
66 n-Heptane	43		7.665				ND		U
67 t-Amyl alcohol	73		7.842				ND		
68 n-Butanol	56		8.000				ND		
69 Trichloroethene	95		8.128				ND		
70 Methylcyclohexane	83		8.439				ND		7
71 1,2-Dichloropropane	63		8.458				ND		
72 2-ethoxy-2-methyl butane	87		8.470				ND		
74 Methyl methacrylate	69		8.543				ND		
73 1,4-Dioxane	88		8.549				ND		
75 Dibromomethane	93		8.567				ND		
76 n-Propyl acetate	61		8.622				ND		
77 Dichlorobromomethane	83		8.799				ND		
78 2-Nitropropane	41		9.061				ND		
79 2-Chloroethyl vinyl ether	63		9.171				ND		
80 1-Bromo-2-chloroethane	63		9.195				ND		
81 cis-1,3-Dichloropropene	75		9.348				ND		
82 Chloroacetonitrile	75		9.427				ND		
83 4-Methyl-2-pentanone (MIBK)	43		9.512				ND		
$ 84 Toluene-d8 (Surr)	98	9.658	9.658	0.000	93	1769468	10.0	10.4	
85 Toluene	92		9.732				ND		
86 trans-1,3-Dichloropropene	75		9.988				ND		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 Ethyl methacrylate	69		10.055					ND	
S 104 1,3-Dichloropropene, Total	100		10.060					ND	7
106 1,1,2-Trichloroethane	97		10.195					ND	
107 Tetrachloroethene	166		10.286					ND	
108 1,3-Dichloropropane	76		10.360					ND	
109 2-Hexanone	43		10.402					ND	
110 n-Butyl acetate	43		10.530					ND	
111 Chlorodibromomethane	129		10.573					ND	
112 Ethylene Dibromide	107		10.683					ND	
* 113 Chlorobenzene-d5 (IS)	117	11.115	11.109	0.006	86	1387637	10.0	10.0	
114 1-Chlorohexane	91		11.122					ND	7
115 Chlorobenzene	112		11.140					ND	7
116 1,1,1,2-Tetrachloroethane	131		11.219					ND	
118 Ethylbenzene	91		11.225					ND	
S 117 Xylenes, Total	106		11.245					ND	7
119 m-Xylene & p-Xylene	106		11.341					ND	
120 o-Xylene	106		11.664					ND	
121 Styrene	104		11.682					ND	
122 Bromoform	173		11.841					ND	
123 Isopropylbenzene	105		11.963					ND	7
124 cis-1,4-Dichloro-2-butene	88		12.012					ND	
125 Cyclohexanone	55		12.042					ND	
$ 126 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	92	662956	10.0	9.62	
127 1,1,2,2-Tetrachloroethane	83		12.207					ND	
128 Bromobenzene	156		12.225					ND	
129 trans-1,4-Dichloro-2-butene	53		12.231					ND	
130 1,2,3-Trichloropropane	110		12.256					ND	
131 N-Propylbenzene	91		12.292					ND	7
132 2-Chlorotoluene	126		12.371					ND	
133 1,3,5-Trimethylbenzene	105		12.426					ND	7
134 4-Chlorotoluene	126		12.463					ND	
135 tert-Butylbenzene	134		12.670					ND	7
136 Pentachloroethane	167		12.701					ND	
137 1,2,4-Trimethylbenzene	105		12.707					ND	7
138 sec-Butylbenzene	105		12.829					ND	7
139 1,3-Dichlorobenzene	146		12.932					ND	7
140 4-Isopropyltoluene	119		12.938					ND	7
* 141 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	95	757942	10.0	10.0	
142 1,4-Dichlorobenzene	146		13.005					ND	7
143 1,2,3-Trimethylbenzene	120		13.012					ND	7
144 Benzyl chloride	126		13.079					ND	
145 p-Diethylbenzene	119	13.146	13.133	0.013	88	1975		0.0151	
146 n-Butylbenzene	92		13.225					ND	7
147 1,2-Dichlorobenzene	146		13.261					ND	
148 Hexachloroethane	201		13.682					ND	
149 1,2-Dibromo-3-Chloropropane	155		13.798					ND	
150 1,3,5-Trichlorobenzene	180		13.926					ND	7
151 1,2,4-Trichlorobenzene	180	14.359	14.347	0.012	88	2176		0.0309	
152 Hexachlorobutadiene	225	14.432	14.426	0.006	90	2492		0.0729	
153 Naphthalene	128		14.523					ND	7
154 1,2,3-Trichlorobenzene	180	14.676	14.670	0.006	91	2534		0.0424	
155 2-Methylnaphthalene	142	15.291	15.279	0.012	91	6523		0.0953	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
156 tert-Butyl Formate	1		0.000					ND	
157 Dodecane	57		0.000					ND	
158 Pentane	43		0.000					ND	
159 1,1-Dichloroacetone	1		0.000					ND	
160 n-Decane	57		0.000					ND	
161 1-Bromo-3-Chloropropane	1		0.000					ND	
162 1-Chloropropane	1		0.000					ND	
163 Propene oxide	1		0.000					ND	
164 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
165 Methylal	1		0.000					ND	
166 2-Bromo-1-chloropropane	1		0.000					ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
U - Marked Undetected

Reagents:

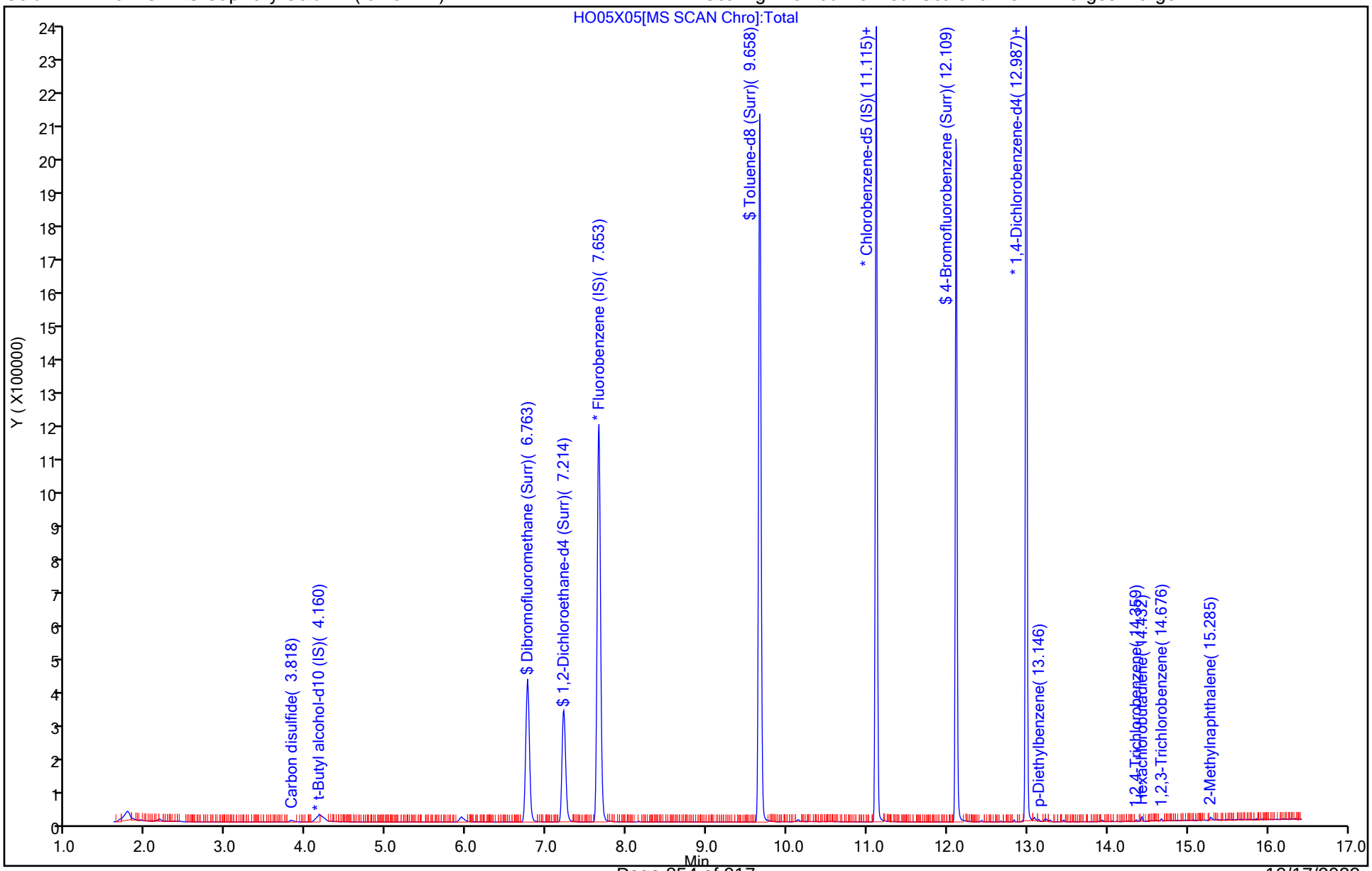
MSV_HP25_ISSS_00057 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 06-Oct-2022 13:59:43 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X05.D				
Injection Date:	05-Oct-2022 10:47:30	Instrument ID:	19094	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_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 05-Oct-2022 10:47:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0067970-006
Misc. Info.: MB
Operator ID: knk41612 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2022 13:57:50 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: DVW2 Date: 05-Oct-2022 11:35:59

Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	9.85	98.50
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.44
$ 84 Toluene-d8 (Surr)	10.0	10.4	104.23
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.62	96.20

Report Date: 06-Oct-2022 13:59:43 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X05.D

Injection Date: 05-Oct-2022 10:47:30 Instrument ID: 19094

Lims ID: MB

Client ID:

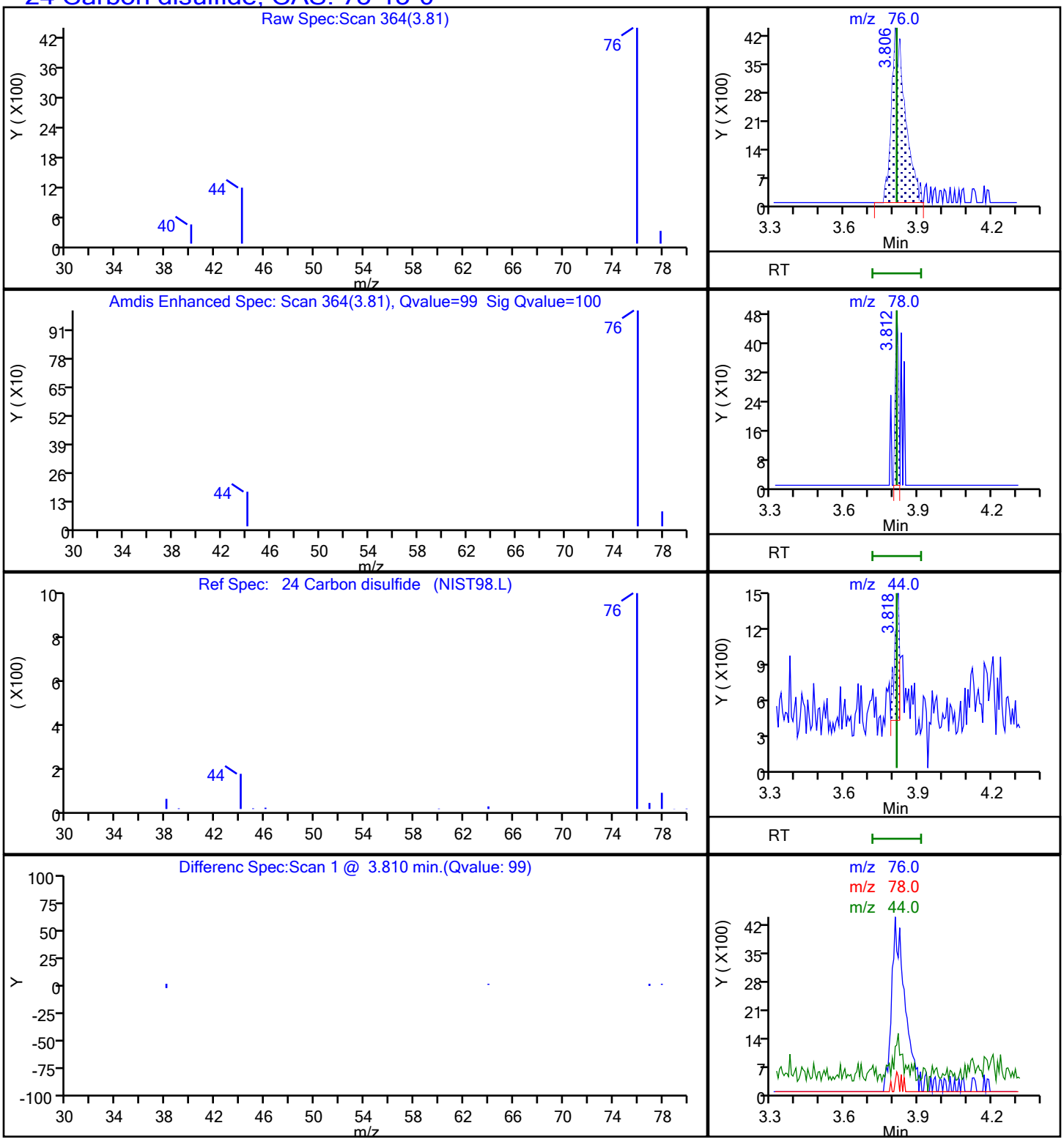
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 6

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_19094_25mL Limit Group: MSV - 8260C_D

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

24 Carbon disulfide, CAS: 75-15-0



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

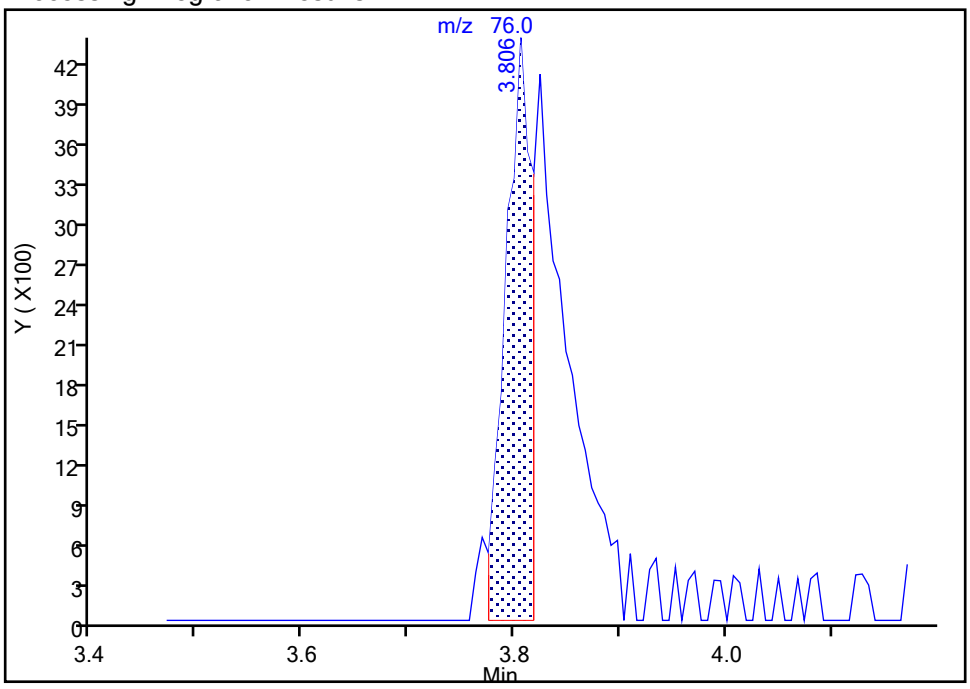
Data File: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X05.D
Injection Date: 05-Oct-2022 10:47:30 Instrument ID: 19094
Lims ID: MB
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_19094_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

24 Carbon disulfide, CAS: 75-15-0

Signal: 1

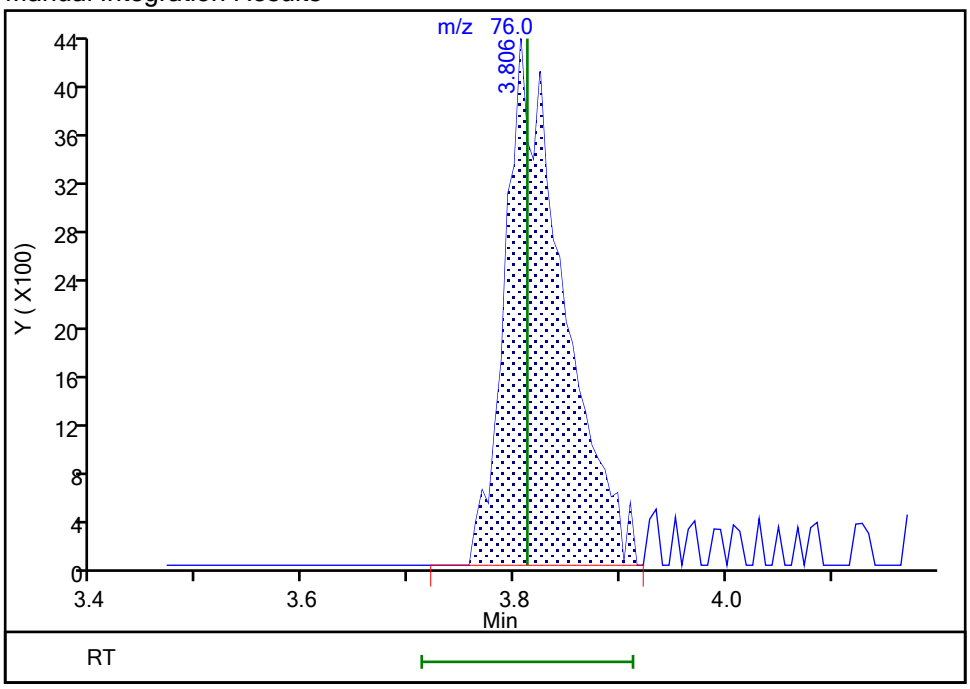
Processing Integration Results

RT: 3.81
Area: 7609
Amount: 0.063781
Amount Units: ug/l



Manual Integration Results

RT: 3.81
Area: 16465
Amount: 0.138015
Amount Units: ug/l



Reviewer: DVW2, 05-Oct-2022 11:34:31
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.: 410-99372-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-304184/6

Matrix: Water Lab File ID: CC07X05.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 10/07/2022 12:23

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.: 304184 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	0.550	J	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.: 410-99372-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-304184/6

Matrix: Water Lab File ID: CC07X05.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 10/07/2022 12:23

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.: 304184 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)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20221007-68180.b\CC07X05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 07-Oct-2022 12:23:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0068180-006
Misc. Info.: MB
Operator ID: knk41612 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20221007-68180.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 10-Oct-2022 17:31:38 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1675

First Level Reviewer: DVW2 Date: 07-Oct-2022 13:10:46

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Chlorotrifluoroethene	116		1.715					ND	
2	Dichlorodifluoromethane	85		1.745					ND	
3	Chlorodifluoromethane	51		1.764					ND	7
4	Dimethyl ether	45		1.806					ND	
5	Chloromethane	50		1.922					ND	7
6	Vinyl chloride	62		2.020					ND	7
7	Butadiene	39		2.020					ND	7
8	2-Chloro-1,1,1-Trifluoroethane	118		2.099					ND	
9	Bromomethane	94		2.312					ND	7
10	Chloroethane	64		2.379					ND	7
11	Dichlorofluoromethane	67		2.593					ND	7
12	Trichlorofluoromethane	101		2.648					ND	
13	Pentane	43		2.654					ND	U
15	Ethyl ether	59		2.837					ND	7
16	1,2-Dichloro-1,1,2-trifluoroetha	67		2.934					ND	7
17	Acrolein	56		2.989					ND	7
19	1,1-Dichloroethene	96		3.105					ND	U
20	Acetone	43		3.135					ND	7
21	1,1,2-Trichloro-1,2,2-trifluoroe	101		3.148					ND	
22	Iodomethane	142		3.276					ND	
23	Isopropyl alcohol	45		3.288					ND	U
24	Ethyl bromide	108		3.300					ND	
25	Carbon disulfide	76	3.379	3.361	0.018	99	79203		0.5503	M
26	Acetonitrile	41		3.477					ND	7
27	Methyl acetate	43		3.495					ND	7
28	3-Chloro-1-propene	41		3.519					ND	
29	Methylene Chloride	84		3.678					ND	
* 30	t-Butyl alcohol-d10 (IS)	65	3.714	3.708	0.006	99	187083	50.0	50.0	
31	2-Methyl-2-propanol	59		3.818					ND	
32	Acrylonitrile	53		3.983					ND	
33	Methyl tert-butyl ether	73		4.032					ND	7

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		4.038					ND	
35 Hexane	57		4.440					ND	
36 1,1-Dichloroethane	63		4.684					ND	
37 Vinyl acetate	43		4.696					ND	
38 Isopropyl ether	45		4.745					ND	
39 2-Chloro-1,3-butadiene	53		4.794					ND	
40 Tert-butyl ethyl ether	59		5.293					ND	
41 2-Butanone (MEK)	43		5.519					ND	7
42 cis-1,2-Dichloroethene	96		5.537					ND	
43 2,2-Dichloropropane	77		5.550					ND	7
44 Ethyl acetate	43		5.586					ND	7
45 Propionitrile	54		5.604					ND	
46 Methacrylonitrile	67		5.824					ND	
47 Chlorobromomethane	128		5.873					ND	
48 Tetrahydrofuran	71		5.891					ND	
49 Methyl acrylate	55		6.013					ND	
50 Chloroform	83		6.037					ND	
S 51 1,2-Dichloroethene, Total	100		6.155					ND	7
$ 53 Dibromofluoromethane (Surr)	113	6.257	6.257	0.000	95	520002	10.0	10.5	
52 1,1,1-Trichloroethane	97		6.257					ND	
54 Cyclohexane	56		6.348					ND	
55 Carbon tetrachloride	117		6.470					ND	
56 1,1-Dichloropropene	75		6.470					ND	
57 Isobutyl alcohol	41		6.690					ND	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.720	6.714	0.006	41	109358	10.0	10.8	
59 Benzene	78		6.738					ND	7
60 1-Chlorobutane	56		6.781					ND	
61 1,2-Dichloroethane	62		6.818					ND	7
62 Isopropyl acetate	43		6.860					ND	
63 Tert-amyl methyl ether	73		6.952					ND	
* 64 Fluorobenzene (IS)	96	7.159	7.159	0.000	99	2115114	10.0	10.0	
65 n-Heptane	43		7.177					ND	7
66 n-Butanol	56		7.604					ND	
67 Trichloroethene	95		7.647					ND	
68 Methylcyclohexane	83		7.951					ND	
69 1,2-Dichloropropane	63		7.988					ND	
70 2-ethoxy-2-methyl butane	87		8.012					ND	
72 1,4-Dioxane	88		8.098					ND	
71 Methyl methacrylate	69		8.098					ND	
73 Dibromomethane	93		8.098					ND	
74 n-Propyl acetate	61		8.189					ND	
75 Dichlorobromomethane	83		8.348					ND	
76 2-Nitropropane	41		8.634					ND	7
77 2-Chloroethyl vinyl ether	63		8.738					ND	
78 1-Bromo-2-chloroethane	63		8.744					ND	
79 cis-1,3-Dichloropropene	75		8.921					ND	
80 Chloroacetonitrile	75		9.067					ND	
81 4-Methyl-2-pentanone (MIBK)	43		9.128					ND	7
$ 82 Toluene-d8 (Surr)	98	9.250	9.256	-0.006	93	2186198	10.0	9.49	
83 Toluene	92		9.335					ND	7
84 trans-1,3-Dichloropropene	75		9.634					ND	
85 Ethyl methacrylate	69		9.713					ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 1,1,2-Trichloroethane	97		9.847					ND	
87 Tetrachloroethene	166		9.927					ND	
102 1,3-Dichloropropane	76		10.018					ND	
S 103 1,3-Dichloropropene, Total	100		10.060					ND	7
104 2-Hexanone	43		10.091					ND	7
105 n-Butyl acetate	43		10.231					ND	U
106 Chlorodibromomethane	129		10.244					ND	
107 Ethylene Dibromide	107		10.353					ND	
* 108 Chlorobenzene-d5 (IS)	117	10.811	10.811	0.000	83	1748791	10.0	10.0	
109 1-Chlorohexane	91		10.829					ND	7
110 Chlorobenzene	112		10.841					ND	
111 1,1,1,2-Tetrachloroethane	131		10.927					ND	
112 Ethylbenzene	91		10.933					ND	
113 m-Xylene & p-Xylene	106		11.055					ND	7
S 114 Xylenes, Total	106		11.245					ND	7
115 o-Xylene	106		11.396					ND	
116 Styrene	104		11.414					ND	7
117 Bromoform	173		11.573					ND	
118 Isopropylbenzene	105		11.707					ND	
119 cis-1,4-Dichloro-2-butene	88		11.768					ND	
120 Cyclohexanone	55		11.792					ND	
$ 121 4-Bromofluorobenzene (Surr)	95	11.853	11.853	0.000	98	807007	10.0	9.46	
122 Bromobenzene	156		11.969					ND	
123 1,1,2,2-Tetrachloroethane	83		11.969					ND	
124 trans-1,4-Dichloro-2-butene	53		11.993					ND	
125 1,2,3-Trichloropropane	110		12.012					ND	
126 N-Propylbenzene	91		12.048					ND	
127 2-Chlorotoluene	126		12.121					ND	7
128 1,3,5-Trimethylbenzene	105		12.188					ND	7
129 4-Chlorotoluene	126		12.219					ND	7
130 tert-Butylbenzene	134		12.432					ND	
131 Pentachloroethane	167		12.463					ND	
132 1,2,4-Trimethylbenzene	105		12.475					ND	7
133 sec-Butylbenzene	105		12.603					ND	7
134 1,3-Dichlorobenzene	146		12.701					ND	7
135 4-Isopropyltoluene	119		12.713					ND	7
* 136 1,4-Dichlorobenzene-d4	152	12.755	12.755	0.000	93	1027698	10.0	10.0	
137 1,4-Dichlorobenzene	146		12.774					ND	7
138 1,2,3-Trimethylbenzene	120		12.786					ND	7
139 Benzyl chloride	126		12.853					ND	7
140 n-Butylbenzene	92		13.011					ND	7
141 1,2-Dichlorobenzene	146		13.036					ND	7
142 p-Diethylbenzene	119		13.066					ND	U
144 Hexachloroethane	117		13.444					ND	
145 1,2-Dibromo-3-Chloropropane	155		13.591					ND	
146 1,3,5-Trichlorobenzene	180		13.719					ND	7
147 1,2,4-Trichlorobenzene	180		14.145					ND	7
148 Hexachlorobutadiene	225		14.231					ND	7
149 Naphthalene	128		14.328					ND	7
150 1,2,3-Trichlorobenzene	180		14.475					ND	7
151 2-Methylnaphthalene	142	15.078	15.072	0.006	88	5792		0.0663	
152 Dodecane	57		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
156 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
168 Propargyl alcohol TIC	1		0.000					ND	
167 1,3-Dichloro-2-propanol TIC	1		0.000					ND	
166 Vinyl acetate (TIC)	1		0.000					ND	
165 tert-Butyl Formate	1		0.000					ND	
164 2-Bromo-1-chloropropane	1		0.000					ND	
163 1-Chloropropane	1		0.000					ND	
162 1,1-Dichloroacetone	1		0.000					ND	
169 Pentachloroethane TIC	1		0.000					ND	
161 Methylal	1		0.000					ND	
159 Isopropyl alcohol TIC	1		0.000					ND	
158 Propene oxide	1		0.000					ND	
157 t-Amyl alcohol	1		0.000					ND	
155 Ethanol	45		0.000					ND	
241 Vinyl Fluoride TIC	1		0.000					ND	
154 Acetonitrile TIC	1		0.000					ND	
153 n-Decane	57		0.000					ND	
160 1-Bromo-3-Chloropropane	1		0.000					ND	
232 Chlorofluoromethane TIC	1		0.000					ND	
233 Dichloro-1,1,2,2-tetrafluoretha	1		0.000					ND	
234 1-Chloro-1,1-difluoroethane TIC	1		0.000					ND	
235 Ethyl ether TIC	1		0.000					ND	
236 Freon 115 TIC	1		0.000					ND	
237 Fluoromethane TIC	1		0.000					ND	
238 1,1,1-Trifluoro-2,2-dichloroetha	1		0.000					ND	
239 1,2-Dichlorofluoroethane TIC	1		0.000					ND	
240 1,1,1-Trichloro-2,2,2-trifluoroe	1		0.000					ND	
242 1,1,2-Trifluoroethane TIC	1		0.000					ND	

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected

Reagents:

MSV_HP25_ISSS_00059 Amount Added: 1.00 Units: uL Run Reagent

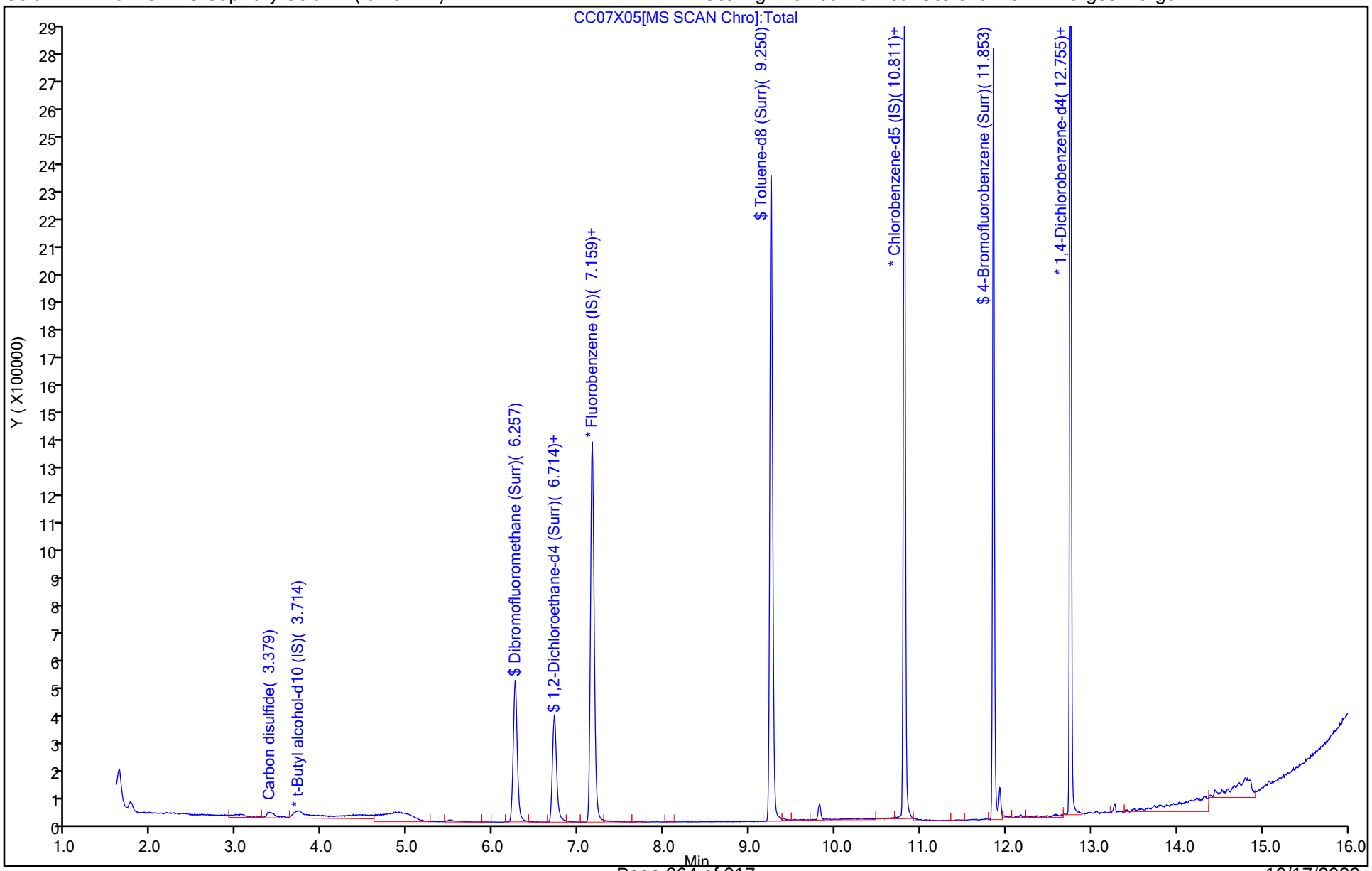
Report Date: 10-Oct-2022 17:31:39 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20221007-68180.b\CC07X05.D

Injection Date:	07-Oct-2022 12:23:30	Instrument ID:	10193	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_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20221007-68180.b\CC07X05.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 07-Oct-2022 12:23:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0068180-006
Misc. Info.: MB
Operator ID: knk41612 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20221007-68180.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 10-Oct-2022 17:31:38 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1675

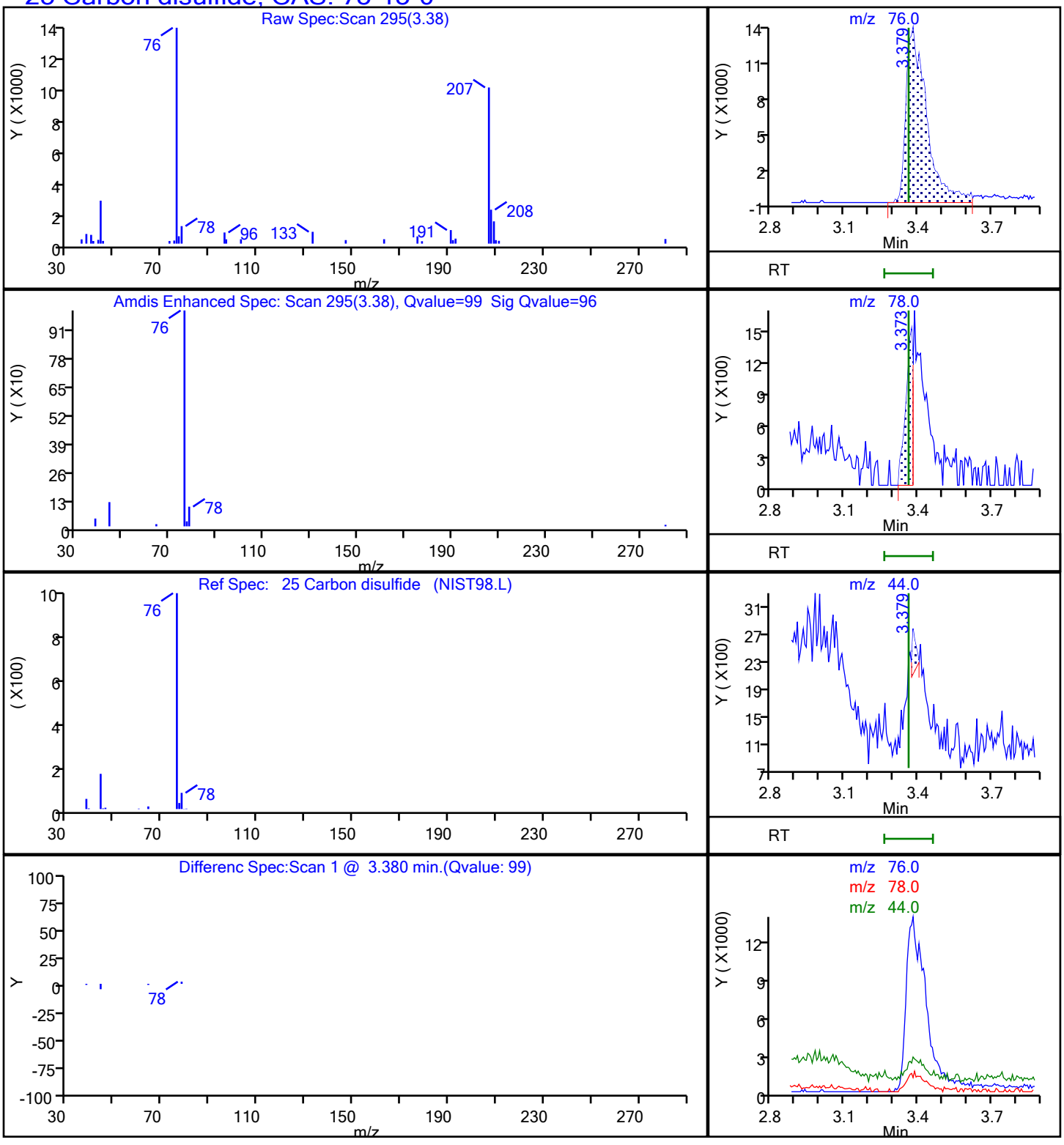
First Level Reviewer: DVW2 Date: 07-Oct-2022 13:10:46

Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	10.5	105.20
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.8	107.61
$ 82 Toluene-d8 (Surr)	10.0	9.49	94.87
$ 121 4-Bromofluorobenzene (Surr)	10.0	9.46	94.64

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20221007-68180.b\CC07X05.D
Injection Date: 07-Oct-2022 12:23:30 Instrument ID: 10193
Lims ID: MB
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

25 Carbon disulfide, CAS: 75-15-0



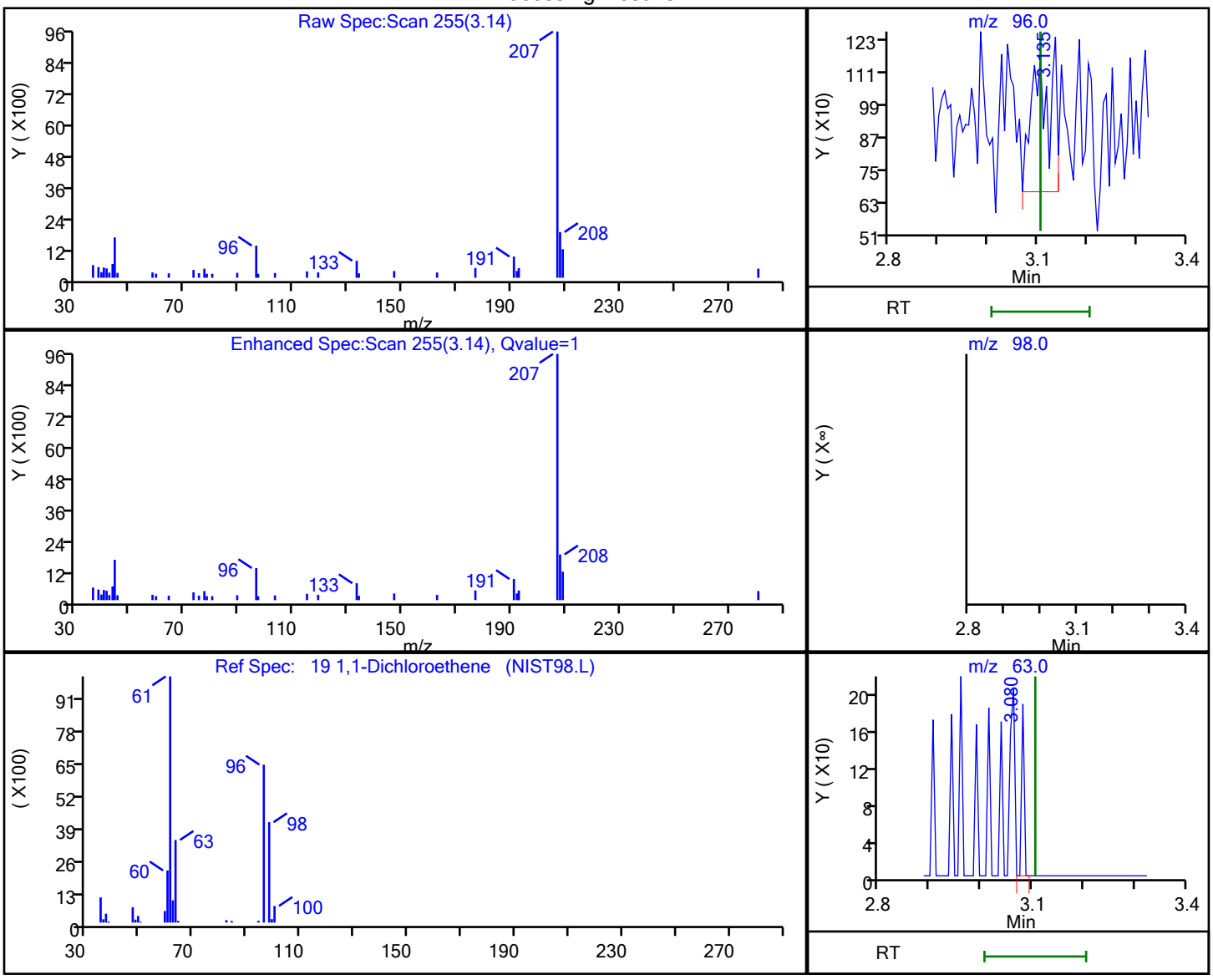
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20221007-68180.b\CC07X05.D
Injection Date: 07-Oct-2022 12:23:30 Instrument ID: 10193
Lims ID: MB
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

19 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



RT	Mass	Response	Amount
3.14	96.00	1436	0.030862
3.10	98.00	0	
3.08	63.00	68	
3.10	61.00	198	

Reviewer: DVW2, 07-Oct-2022 12:55:24
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

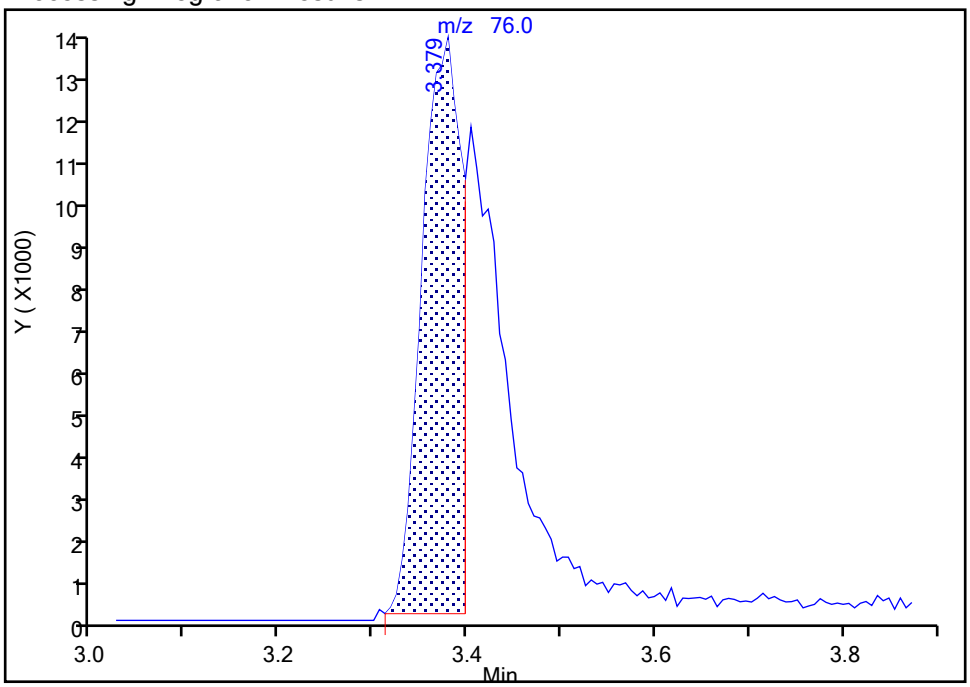
Data File:	\\chromfs\Lancaster\ChromData\10193\20221007-68180.b\CC07X05.D				
Injection Date:	07-Oct-2022 12:23:30	Instrument ID:	10193		
Lims ID:	MB				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

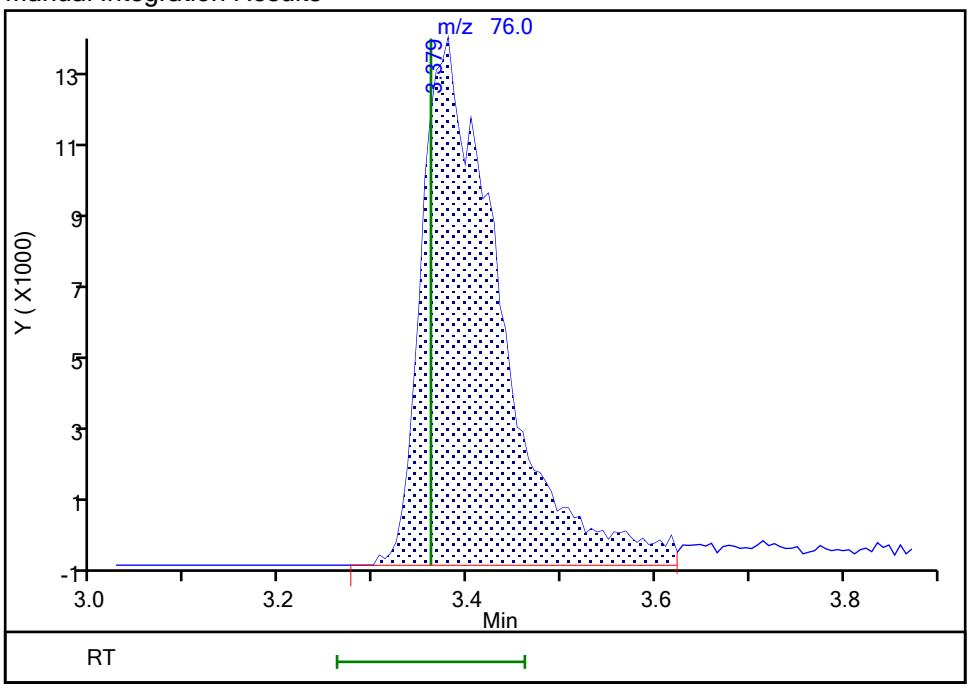
Processing Integration Results

RT: 3.38
Area: 39837
Amount: 0.276810
Amount Units: ug/l



Manual Integration Results

RT: 3.38
Area: 79203
Amount: 0.550348
Amount Units: ug/l



Reviewer: DVW2, 07-Oct-2022 12:55:48
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-99372-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-303234/4

Matrix: Water Lab File ID: HO05X03.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 10:06

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.: 303234 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	4.87		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.68		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.50		0.50	0.080
75-34-3	1,1-Dichloroethane	4.96		0.50	0.10
75-35-4	1,1-Dichloroethene	4.79		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.71		0.50	0.080
107-06-2	1,2-Dichloroethane	5.61		0.50	0.070
78-87-5	1,2-Dichloropropane	4.98		0.50	0.10
78-93-3	2-Butanone (MEK)	58.5		5.0	1.0
591-78-6	2-Hexanone	57.1		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	54.3		5.0	1.0
67-64-1	Acetone	53.8		5.0	1.0
71-43-2	Benzene	4.88		0.50	0.10
74-97-5	Bromochloromethane	5.19		0.50	0.080
75-27-4	Bromodichloromethane	5.35		0.50	0.080
75-25-2	Bromoform	5.91		1.0	0.30
74-83-9	Bromomethane	4.39		0.50	0.10
75-15-0	Carbon disulfide	5.39		1.0	0.10
56-23-5	Carbon tetrachloride	4.87		0.50	0.10
108-90-7	Chlorobenzene	5.32		0.50	0.070
75-00-3	Chloroethane	4.61		0.50	0.10
67-66-3	Chloroform	4.99		0.50	0.090
74-87-3	Chloromethane	4.45		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	4.98		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.05		0.50	0.10
124-48-1	Dibromochloromethane	5.66		0.50	0.080
100-41-4	Ethylbenzene	5.22		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.16		0.50	0.080
75-09-2	Methylene Chloride	4.99		0.50	0.10
100-42-5	Styrene	5.33		0.50	0.070
127-18-4	Tetrachloroethene	5.22		0.50	0.20
108-88-3	Toluene	5.25		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-99372-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-303234/4

Matrix: Water Lab File ID: HO05X03.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 10:06

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.: 303234 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	4.78		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.83		0.50	0.080
79-01-6	Trichloroethene	4.81		0.50	0.080
75-01-4	Vinyl chloride	4.24		0.50	0.10
1330-20-7	Xylenes, Total	15.8		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		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\19094\20221005-67970.b\HO05X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 05-Oct-2022 10:06:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0067970-004
Misc. Info.: LCS
Operator ID: knk41612 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2022 13:57:50 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: DVW2 Date: 05-Oct-2022 10:34:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.934	1.934	0.000	99	234957	5.00	4.37	
5 Chloromethane	50	2.123	2.123	0.000	99	299491	5.00	4.45	
7 Vinyl chloride	62	2.239	2.239	0.000	98	282540	5.00	4.24	
6 Butadiene	39	2.251	2.251	0.000	93	319077	5.00	5.02	
9 Bromomethane	94	2.568	2.575	-0.006	91	205837	5.00	4.39	
10 Chloroethane	64	2.654	2.654	0.000	100	186459	5.00	4.61	
11 Dichlorofluoromethane	67	2.892	2.885	0.007	97	434188	5.00	4.84	
12 Trichlorofluoromethane	101	2.965	2.959	0.006	97	346414	5.00	4.29	
14 Ethyl ether	59	3.209	3.209	0.000	92	157506	4.98	4.66	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.282	3.288	-0.006	94	280103	5.00	4.45	
16 Acrolein	56	3.373	3.373	0.000	95	159612	37.5	25.5	
18 1,1-Dichloroethene	96	3.513	3.513	0.000	98	218670	5.00	4.79	
19 Acetone	43	3.538	3.532	0.006	100	391491	62.5	53.8	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.550	3.544	0.006	92	205814	5.00	4.63	
21 Isopropyl alcohol	45	3.696	3.690	0.006	26	36166	37.5	31.2	
22 Iodomethane	142	3.708	3.708	0.000	99	407029	5.00	5.13	
23 Ethyl bromide	108	3.739	3.733	0.006	98	148253	4.89	3.70	
24 Carbon disulfide	76	3.812	3.812	0.000	99	657910	5.00	5.39	
25 Methyl acetate	43	3.965	3.958	0.007	98	84553	5.00	4.39	
27 3-Chloro-1-propene	41	3.989	3.989	0.000	93	402048	5.00	5.08	
* 29 t-Butyl alcohol-d10 (IS)	65	4.166	4.166	0.000	99	113794	50.0	50.0	
28 Methylene Chloride	84	4.172	4.166	0.006	94	236004	5.00	4.99	
31 2-Methyl-2-propanol	59	4.282	4.294	-0.012	100	133252	50.0	54.1	
32 Acrylonitrile	53	4.507	4.507	0.000	98	225660	25.0	23.0	
33 Methyl tert-butyl ether	73	4.568	4.568	0.000	95	526156	5.00	5.16	
34 trans-1,2-Dichloroethene	96	4.592	4.592	0.000	98	242293	5.00	4.78	
35 Hexane	57	5.013	5.013	0.000	93	330056	5.00	4.65	
37 1,1-Dichloroethane	63	5.239	5.245	-0.006	96	470069	5.00	4.96	
38 Isopropyl ether	45	5.306	5.300	0.006	95	804550	5.00	4.99	
39 2-Chloro-1,3-butadiene	53	5.355	5.348	0.006	91	398608	5.00	5.15	
41 Tert-butyl ethyl ether	59	5.836	5.830	0.006	98	705499	5.00	4.95	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
42 2-Butanone (MEK)	43	6.025	6.019	0.006	100	741200	62.5	58.5	
43 cis-1,2-Dichloroethene	96	6.074	6.068	0.006	83	277297	5.00	4.98	
44 2,2-Dichloropropane	77	6.086	6.080	0.006	87	401825	5.00	5.06	
45 Propionitrile	54	6.110	6.104	0.006	97	123701	37.5	38.1	
48 Methacrylonitrile	67	6.330	6.318	0.012	93	443072	37.5	31.6	
49 Chlorobromomethane	128	6.403	6.397	0.006	96	115544	5.00	5.19	
50 Tetrahydrofuran	71	6.403	6.403	0.000	79	78607	25.0	21.7	
52 Chloroform	83	6.555	6.549	0.006	94	446119	5.00	4.99	
$ 53 Dibromofluoromethane (Surr)	113	6.763	6.757	0.006	94	437772	10.0	9.86	
54 1,1,1-Trichloroethane	97	6.781	6.781	0.000	98	404824	5.00	4.87	
55 Cyclohexane	56	6.885	6.879	0.006	91	422872	5.00	4.48	
56 1,1-Dichloropropene	75	6.988	6.988	0.000	96	375375	5.00	4.99	
57 Carbon tetrachloride	117	6.988	6.988	0.000	88	350238	5.00	4.87	
58 Isobutyl alcohol	41	7.135	7.122	0.013	95	111422	125.0	138.8	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.214	7.214	0.000	97	83911	10.0	10.4	
60 Benzene	78	7.250	7.244	0.006	97	1069717	5.00	4.88	
62 1,2-Dichloroethane	62	7.318	7.311	0.007	97	266697	5.00	5.61	
64 Tert-amyl methyl ether	73	7.439	7.433	0.006	98	614091	5.00	5.05	
* 65 Fluorobenzene (IS)	96	7.653	7.653	0.000	98	1754695	10.0	10.0	
66 n-Heptane	43	7.671	7.665	0.006	92	331039	5.00	4.26	
68 n-Butanol	56	8.006	8.000	0.006	91	179612	250.0	261.6	
69 Trichloroethene	95	8.128	8.128	0.000	97	277743	5.00	4.81	
70 Methylcyclohexane	83	8.439	8.439	0.000	93	429939	5.00	4.41	
71 1,2-Dichloropropane	63	8.464	8.458	0.006	89	274068	5.00	4.98	
72 2-ethoxy-2-methyl butane	87	8.470	8.470	0.000	91	377859	5.00	4.90	
74 Methyl methacrylate	69	8.543	8.543	0.000	91	114429	5.00	4.10	
73 1,4-Dioxane	88	8.561	8.549	0.012	30	20589	125.0	115.4	
75 Dibromomethane	93	8.567	8.567	0.000	95	120155	5.00	5.24	
77 Dichlorobromomethane	83	8.805	8.799	0.006	99	331682	5.00	5.35	
78 2-Nitropropane	41	9.067	9.061	0.006	96	31581	5.00	4.56	
80 1-Bromo-2-chloroethane	63	9.195	9.195	0.000	99	247659	5.00	4.89	
81 cis-1,3-Dichloropropene	75	9.354	9.348	0.006	96	392539	5.00	5.05	
83 4-Methyl-2-pentanone (MIBK)	43	9.518	9.512	0.006	97	1865291	62.5	54.3	
$ 84 Toluene-d8 (Surr)	98	9.659	9.658	0.001	93	1851044	10.0	10.5	
85 Toluene	92	9.738	9.732	0.006	98	685281	5.00	5.25	
86 trans-1,3-Dichloropropene	75	9.994	9.988	0.006	93	324199	5.00	5.83	
105 Ethyl methacrylate	69	10.055	10.055	0.000	89	237476	5.00	5.57	
106 1,1,2-Trichloroethane	97	10.201	10.195	0.006	90	170172	5.00	5.50	
107 Tetrachloroethene	166	10.286	10.286	0.000	98	314761	5.00	5.22	
108 1,3-Dichloropropane	76	10.360	10.360	0.000	90	302776	5.00	5.68	
109 2-Hexanone	43	10.408	10.402	0.006	98	1301239	62.5	57.1	
111 Chlorodibromomethane	129	10.573	10.573	0.000	90	216461	5.00	5.66	
112 Ethylene Dibromide	107	10.689	10.683	0.006	98	161812	5.00	5.71	
* 113 Chlorobenzene-d5 (IS)	117	11.116	11.109	0.007	86	1436122	10.0	10.0	
114 1-Chlorohexane	91	11.122	11.122	0.000	98	390007	5.00	4.83	
115 Chlorobenzene	112	11.140	11.140	0.000	94	739319	5.00	5.32	
116 1,1,1,2-Tetrachloroethane	131	11.225	11.219	0.006	96	257734	5.00	5.40	
118 Ethylbenzene	91	11.225	11.225	0.000	98	1330252	5.00	5.22	
119 m-Xylene & p-Xylene	106	11.341	11.341	0.000	99	1034459	10.0	10.6	
120 o-Xylene	106	11.670	11.664	0.006	97	489612	5.00	5.21	
121 Styrene	104	11.683	11.682	0.001	95	811755	5.00	5.33	
122 Bromoform	173	11.841	11.841	0.000	97	130317	5.00	5.91	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
123 Isopropylbenzene	105	11.969	11.963	0.006	96	1310729	5.00	5.16	
$ 126 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	91	709948	10.0	9.95	
127 1,1,2,2-Tetrachloroethane	83	12.207	12.207	0.000	93	212106	5.00	5.68	
128 Bromobenzene	156	12.225	12.225	0.000	95	299846	5.00	5.37	
129 trans-1,4-Dichloro-2-butene	53	12.231	12.231	0.000	92	175719	25.0	14.8	
130 1,2,3-Trichloropropane	110	12.256	12.256	0.000	83	54820	5.00	5.85	
131 N-Propylbenzene	91	12.292	12.292	0.000	99	1593575	5.00	5.12	
132 2-Chlorotoluene	126	12.371	12.371	0.000	96	303299	5.00	5.06	
133 1,3,5-Trimethylbenzene	105	12.426	12.426	0.000	94	1096695	5.00	5.05	
134 4-Chlorotoluene	126	12.463	12.463	0.000	97	319712	5.00	5.31	
135 tert-Butylbenzene	134	12.670	12.670	0.000	93	242388	5.00	5.05	
136 Pentachloroethane	167	12.701	12.701	0.000	93	177131	5.00	5.25	
137 1,2,4-Trimethylbenzene	105	12.713	12.707	0.006	97	1117902	5.00	5.10	
138 sec-Butylbenzene	105	12.835	12.829	0.006	94	1431382	5.00	5.03	
139 1,3-Dichlorobenzene	146	12.932	12.932	0.000	98	599586	5.00	5.18	
140 4-Isopropyltoluene	119	12.938	12.938	0.000	97	1235546	5.00	5.07	
* 141 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	94	815435	10.0	10.0	
142 1,4-Dichlorobenzene	146	13.005	13.005	0.000	94	604694	5.00	5.27	
143 1,2,3-Trimethylbenzene	120	13.012	13.012	0.000	98	478822	5.00	5.12	
144 Benzyl chloride	126	13.079	13.079	0.000	98	87930	5.00	5.80	
145 p-Diethylbenzene	119	13.140	13.133	0.007	92	706830	5.00	5.01	
146 n-Butylbenzene	92	13.231	13.225	0.006	97	598723	5.00	4.86	
147 1,2-Dichlorobenzene	146	13.262	13.261	0.001	98	536014	5.00	5.23	
149 1,2-Dibromo-3-Chloropropane	155	13.798	13.798	0.000	86	27986	5.00	5.68	
150 1,3,5-Trichlorobenzene	180	13.926	13.926	0.000	97	445738	5.00	4.95	
151 1,2,4-Trichlorobenzene	180	14.347	14.347	0.000	94	376350	5.00	4.97	
152 Hexachlorobutadiene	225	14.426	14.426	0.000	96	150940	5.00	4.10	
153 Naphthalene	128	14.530	14.523	0.007	97	615944	5.00	5.04	
154 1,2,3-Trichlorobenzene	180	14.670	14.670	0.000	95	315031	5.00	4.90	
155 2-Methylnaphthalene	142	15.279	15.279	0.000	92	349673	5.00	4.75	
158 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

LCS_ETBR_00003	Amount Added:	12.50	Units: uL	
MSV_LCS_VOC#1_00076	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00078	Amount Added:	12.50	Units: uL	
MSV_LCS_EE_00003	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00103	Amount Added:	12.50	Units: uL	
MSV_LCS_Penta_00020	Amount Added:	12.50	Units: uL	
MSV_HP25_ISSS_00057	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 06-Oct-2022 13:58:24 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X03.D

Injection Date: 05-Oct-2022 10:06:30 Instrument ID: 19094 Operator ID: knk41612

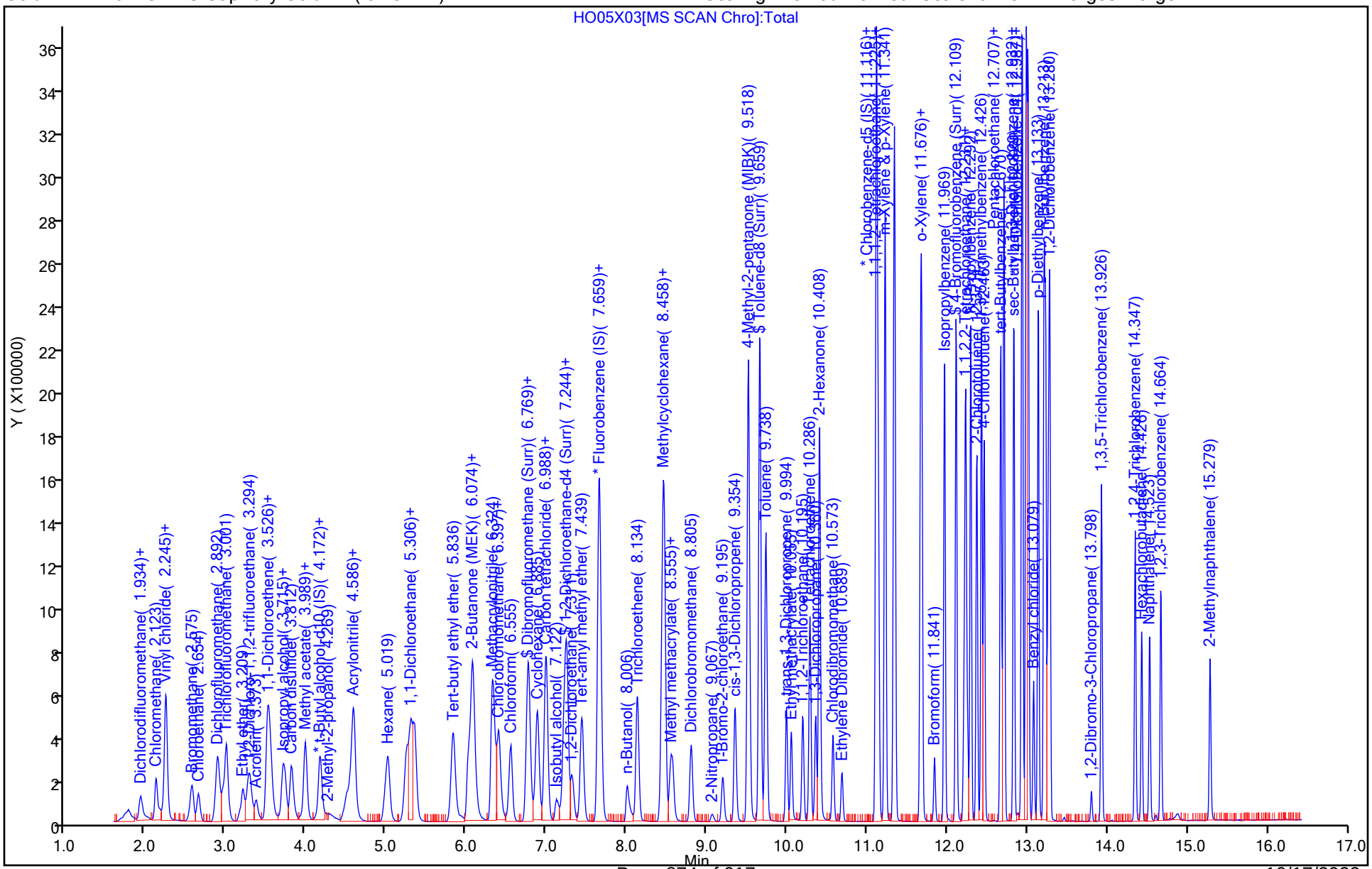
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: MSV_19094_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X03.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	05-Oct-2022 10:06:30	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0067970-004				
Misc. Info.:	LCS				
Operator ID:	knk41612	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Oct-2022 13:57:50	Calib Date:	11-Jul-2022 18:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1671				

First Level Reviewer: DVW2 Date: 05-Oct-2022 10:34:27

Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	9.86	98.57
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	103.54
$ 84 Toluene-d8 (Surr)	10.0	10.5	105.36
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.95	99.54

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-99372-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-304184/4

Matrix: Water Lab File ID: CC07X03.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 10/07/2022 11:39

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 304184 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.23		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.96		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	4.74		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.06		0.50	0.080
75-34-3	1,1-Dichloroethane	4.74		0.50	0.10
75-35-4	1,1-Dichloroethene	5.38		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.27		0.50	0.080
107-06-2	1,2-Dichloroethane	4.72		0.50	0.070
78-87-5	1,2-Dichloropropane	4.89		0.50	0.10
78-93-3	2-Butanone (MEK)	62.3		5.0	1.0
591-78-6	2-Hexanone	65.5		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	63.5		5.0	1.0
67-64-1	Acetone	56.8		5.0	1.0
71-43-2	Benzene	4.98		0.50	0.10
74-97-5	Bromochloromethane	5.61		0.50	0.080
75-27-4	Bromodichloromethane	5.19		0.50	0.080
75-25-2	Bromoform	5.32		1.0	0.30
74-83-9	Bromomethane	4.97		0.50	0.10
75-15-0	Carbon disulfide	6.54		1.0	0.10
56-23-5	Carbon tetrachloride	5.24		0.50	0.10
108-90-7	Chlorobenzene	4.88		0.50	0.070
75-00-3	Chloroethane	4.63		0.50	0.10
67-66-3	Chloroform	4.97		0.50	0.090
74-87-3	Chloromethane	4.92		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	5.36		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.64		0.50	0.10
124-48-1	Dibromochloromethane	5.09		0.50	0.080
100-41-4	Ethylbenzene	4.78		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.03		0.50	0.080
75-09-2	Methylene Chloride	5.06		0.50	0.10
100-42-5	Styrene	4.81		0.50	0.070
127-18-4	Tetrachloroethene	5.25		0.50	0.20
108-88-3	Toluene	4.72		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-99372-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-304184/4

Matrix: Water Lab File ID: CC07X03.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 10/07/2022 11:39

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 304184 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.06		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	4.54		0.50	0.080
79-01-6	Trichloroethene	5.14		0.50	0.080
75-01-4	Vinyl chloride	4.78		0.50	0.10
1330-20-7	Xylenes, Total	14.6		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		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\10193\20221007-68180.b\CC07X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 07-Oct-2022 11:39:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0068180-004
Misc. Info.: LCS
Operator ID: knk41612 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20221007-68180.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 07-Oct-2022 12:09:46 Calib Date: 22-Aug-2022 22:26:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1660

First Level Reviewer: DVW2 Date: 07-Oct-2022 12:06:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.751	1.745	0.006	99	276121	5.00	4.44	
5 Chloromethane	50	1.922	1.922	0.000	99	404527	5.00	4.92	
6 Vinyl chloride	62	2.026	2.020	0.006	98	364549	5.00	4.78	
7 Butadiene	39	2.026	2.020	0.006	91	629538	5.00	7.72	
9 Bromomethane	94	2.318	2.312	0.006	90	252520	5.00	4.97	
10 Chloroethane	64	2.379	2.379	0.000	100	205519	5.00	4.63	
11 Dichlorofluoromethane	67	2.599	2.593	0.006	97	489588	5.00	4.78	
12 Trichlorofluoromethane	101	2.647	2.648	-0.001	97	354369	5.00	4.09	
13 Pentane	43	2.660	2.654	0.006	96	433219	5.00	5.64	
15 Ethyl ether	59	2.836	2.837	-0.001	92	214182	4.98	4.82	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.934	2.934	0.000	91	310392	5.00	4.60	
17 Acrolein	56	2.989	2.989	0.000	99	218540	37.5	34.6	
19 1,1-Dichloroethene	96	3.111	3.105	0.006	98	257993	5.00	5.38	
20 Acetone	43	3.141	3.135	0.006	99	403300	62.5	56.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.153	3.148	0.005	90	259558	5.00	5.74	
22 Iodomethane	142	3.275	3.276	-0.001	97	518803	5.00	5.87	
23 Isopropyl alcohol	45	3.294	3.288	0.006	30	50366	37.5	32.1	
24 Ethyl bromide	108	3.300	3.300	0.000	97	187502	4.89	4.15	
25 Carbon disulfide	76	3.367	3.361	0.006	99	970586	5.00	6.54	
27 Methyl acetate	43	3.501	3.495	0.006	96	115721	5.00	5.53	M
28 3-Chloro-1-propene	41	3.519	3.519	0.000	94	398079	5.00	4.50	
29 Methylene Chloride	84	3.684	3.678	0.006	92	287805	5.00	5.06	
* 30 t-Butyl alcohol-d10 (IS)	65	3.708	3.708	0.000	90	137816	50.0	50.0	
31 2-Methyl-2-propanol	59	3.824	3.818	0.006	99	126117	50.0	43.9	
32 Acrylonitrile	53	3.989	3.983	0.006	100	273227	25.0	25.6	
33 Methyl tert-butyl ether	73	4.037	4.032	0.005	94	733570	5.00	5.03	
34 trans-1,2-Dichloroethene	96	4.037	4.038	-0.001	100	298804	5.00	5.06	
35 Hexane	57	4.434	4.440	-0.006	91	401880	5.00	5.07	
36 1,1-Dichloroethane	63	4.684	4.684	0.000	96	516127	5.00	4.74	
38 Isopropyl ether	45	4.751	4.745	0.006	95	938288	5.00	4.69	
39 2-Chloro-1,3-butadiene	53	4.793	4.794	-0.001	89	400526	5.00	4.71	

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	5.299	5.293	0.006	97	894602	5.00	4.84	
41 2-Butanone (MEK)	43	5.513	5.519	-0.006	99	902446	62.5	62.3	
42 cis-1,2-Dichloroethene	96	5.537	5.537	0.000	81	347162	5.00	5.36	
43 2,2-Dichloropropane	77	5.549	5.550	-0.001	86	451185	5.00	5.25	
45 Propionitrile	54	5.604	5.604	0.000	97	135248	37.5	37.5	
46 Methacrylonitrile	67	5.830	5.824	0.006	91	598957	37.5	39.1	
47 Chlorobromomethane	128	5.879	5.873	0.006	93	160937	5.00	5.61	
48 Tetrahydrofuran	71	5.891	5.891	0.000	78	115246	25.0	28.1	
50 Chloroform	83	6.037	6.037	0.000	93	509731	5.00	4.97	
$ 53 Dibromofluoromethane (Surr)	113	6.257	6.257	-0.001	94	538145	10.0	10.6	
52 1,1,1-Trichloroethane	97	6.257	6.257	-0.001	86	444499	5.00	4.96	
54 Cyclohexane	56	6.348	6.348	0.000	90	485407	5.00	4.81	
55 Carbon tetrachloride	117	6.470	6.470	0.000	98	394086	5.00	5.24	
56 1,1-Dichloropropene	75	6.476	6.470	0.006	96	408933	5.00	4.88	
57 Isobutyl alcohol	41	6.689	6.690	-0.001	90	112262	125.0	110.1	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	6.714	6.714	0.000	95	109502	10.0	10.4	
59 Benzene	78	6.738	6.738	0.000	96	1250726	5.00	4.98	
61 1,2-Dichloroethane	62	6.817	6.818	-0.001	97	300453	5.00	4.72	
63 Tert-amyl methyl ether	73	6.951	6.952	-0.001	99	840267	5.00	5.04	
* 64 Fluorobenzene (IS)	96	7.159	7.159	0.000	98	2181142	10.0	10.0	
65 n-Heptane	43	7.171	7.177	-0.006	93	429681	5.00	4.77	
66 n-Butanol	56	7.610	7.604	0.006	88	206386	250.0	252.4	
67 Trichloroethene	95	7.653	7.647	0.006	96	330774	5.00	5.14	
68 Methylcyclohexane	83	7.951	7.951	0.000	88	528060	5.00	4.93	
69 1,2-Dichloropropane	63	7.988	7.988	0.000	97	326338	5.00	4.89	
70 2-ethoxy-2-methyl butane	87	8.012	8.012	0.000	94	479077	5.00	4.93	
72 1,4-Dioxane	88	8.092	8.098	-0.006	30	28330	125.0	138.0	
71 Methyl methacrylate	69	8.098	8.098	0.000	91	154120	5.00	5.52	
73 Dibromomethane	93	8.098	8.098	0.000	92	156076	5.00	5.25	
75 Dichlorobromomethane	83	8.348	8.348	0.000	99	379853	5.00	5.19	
76 2-Nitropropane	41	8.628	8.634	-0.006	99	36763	5.00	4.63	
78 1-Bromo-2-chloroethane	63	8.744	8.744	0.000	98	313660	5.00	4.72	
79 cis-1,3-Dichloropropene	75	8.921	8.921	0.000	97	445277	5.00	4.64	
81 4-Methyl-2-pentanone (MIBK)	43	9.128	9.128	0.000	96	2486783	62.5	63.5	
$ 82 Toluene-d8 (Surr)	98	9.250	9.256	-0.006	93	2251899	10.0	9.62	
83 Toluene	92	9.335	9.335	0.000	98	814180	5.00	4.72	
84 trans-1,3-Dichloropropene	75	9.634	9.634	0.000	91	377350	5.00	4.54	
85 Ethyl methacrylate	69	9.713	9.713	0.000	89	324297	5.00	4.83	
86 1,1,2-Trichloroethane	97	9.847	9.847	0.000	89	241840	5.00	5.06	
87 Tetrachloroethene	166	9.927	9.927	0.000	97	422379	5.00	5.25	
102 1,3-Dichloropropane	76	10.018	10.018	0.000	89	402115	5.00	4.87	
104 2-Hexanone	43	10.091	10.091	0.000	96	1817571	62.5	65.5	
106 Chlorodibromomethane	129	10.244	10.244	0.000	90	290930	5.00	5.09	
107 Ethylene Dibromide	107	10.353	10.353	0.000	99	237157	5.00	5.27	
* 108 Chlorobenzene-d5 (IS)	117	10.811	10.811	-0.001	83	1775607	10.0	10.0	
109 1-Chlorohexane	91	10.829	10.829	0.000	98	459217	5.00	4.67	
110 Chlorobenzene	112	10.835	10.841	-0.006	97	994697	5.00	4.88	
111 1,1,1,2-Tetrachloroethane	131	10.926	10.927	0.000	95	352865	5.00	5.23	
112 Ethylbenzene	91	10.932	10.933	-0.001	97	1605428	5.00	4.78	
113 m-Xylene & p-Xylene	106	11.054	11.055	-0.001	99	1324339	10.0	9.84	
115 o-Xylene	106	11.396	11.396	0.000	95	640530	5.00	4.79	
116 Styrene	104	11.414	11.414	0.000	95	1051773	5.00	4.81	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
117 Bromoform	173	11.573	11.573	0.000	99	177253	5.00	5.32	
118 Isopropylbenzene	105	11.707	11.707	0.000	95	1653035	5.00	4.87	
$ 121 4-Bromofluorobenzene (Surr)	95	11.853	11.853	0.000	98	845107	10.0	9.76	
122 Bromobenzene	156	11.969	11.969	0.000	93	461931	5.00	5.14	
123 1,1,2,2-Tetrachloroethane	83	11.969	11.969	0.000	93	303067	5.00	4.74	
124 trans-1,4-Dichloro-2-butene	53	11.993	11.993	0.000	79	22448	25.0	1.45	a
125 1,2,3-Trichloropropane	110	12.011	12.012	-0.001	84	79504	5.00	4.75	
126 N-Propylbenzene	91	12.048	12.048	0.000	98	1925827	5.00	4.47	
127 2-Chlorotoluene	126	12.121	12.121	0.000	98	433523	5.00	4.80	
128 1,3,5-Trimethylbenzene	105	12.188	12.188	0.000	94	1410042	5.00	4.54	
129 4-Chlorotoluene	126	12.219	12.219	0.000	95	454367	5.00	4.90	
130 tert-Butylbenzene	134	12.432	12.432	0.000	93	345951	5.00	5.05	
131 Pentachloroethane	167	12.463	12.463	0.000	92	266137	5.00	5.15	
132 1,2,4-Trimethylbenzene	105	12.475	12.475	0.000	96	1467463	5.00	4.55	
133 sec-Butylbenzene	105	12.603	12.603	0.000	93	1851143	5.00	4.69	
134 1,3-Dichlorobenzene	146	12.700	12.701	-0.001	98	884587	5.00	4.80	
135 4-Isopropyltoluene	119	12.713	12.713	0.000	97	1672197	5.00	4.76	
* 136 1,4-Dichlorobenzene-d4	152	12.755	12.755	0.000	92	1081773	10.0	10.0	
137 1,4-Dichlorobenzene	146	12.774	12.774	0.000	96	922083	5.00	4.90	
138 1,2,3-Trimethylbenzene	120	12.786	12.786	0.000	98	682138	5.00	4.64	
139 Benzyl chloride	126	12.853	12.853	0.000	98	141268	5.00	5.34	
140 n-Butylbenzene	92	13.011	13.011	0.000	96	806116	5.00	4.56	
141 1,2-Dichlorobenzene	146	13.036	13.036	0.000	99	823226	5.00	4.85	
142 p-Diethylbenzene	119	13.060	13.066	-0.006	86	834789	5.00	4.66	
145 1,2-Dibromo-3-Chloropropane	155	13.590	13.591	-0.001	92	44423	5.00	4.92	
146 1,3,5-Trichlorobenzene	180	13.718	13.719	-0.001	97	752235	5.00	5.18	
147 1,2,4-Trichlorobenzene	180	14.145	14.145	0.000	94	629389	5.00	5.14	
148 Hexachlorobutadiene	225	14.231	14.231	0.000	94	343449	5.00	5.43	
149 Naphthalene	128	14.328	14.328	0.000	96	939294	5.00	4.82	
150 1,2,3-Trichlorobenzene	180	14.474	14.475	-0.001	96	509742	5.00	5.17	
151 2-Methylnaphthalene	142	15.072	15.072	0.000	92	445649	5.00	4.85	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

LCS_ETBR_00003	Amount Added:	12.50	Units: uL	
MSV_LCS_VOC#1_00076	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00078	Amount Added:	12.50	Units: uL	
MSV_LCS_EE_00003	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00103	Amount Added:	12.50	Units: uL	
MSV_LCS_Penta_00020	Amount Added:	12.50	Units: uL	
MSV_HP25_ISSS_00059	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 07-Oct-2022 12:09:51 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20221007-68180.b\CC07X03.D

Injection Date: 07-Oct-2022 11:39:30 Instrument ID: 10193 Operator ID: knk41612

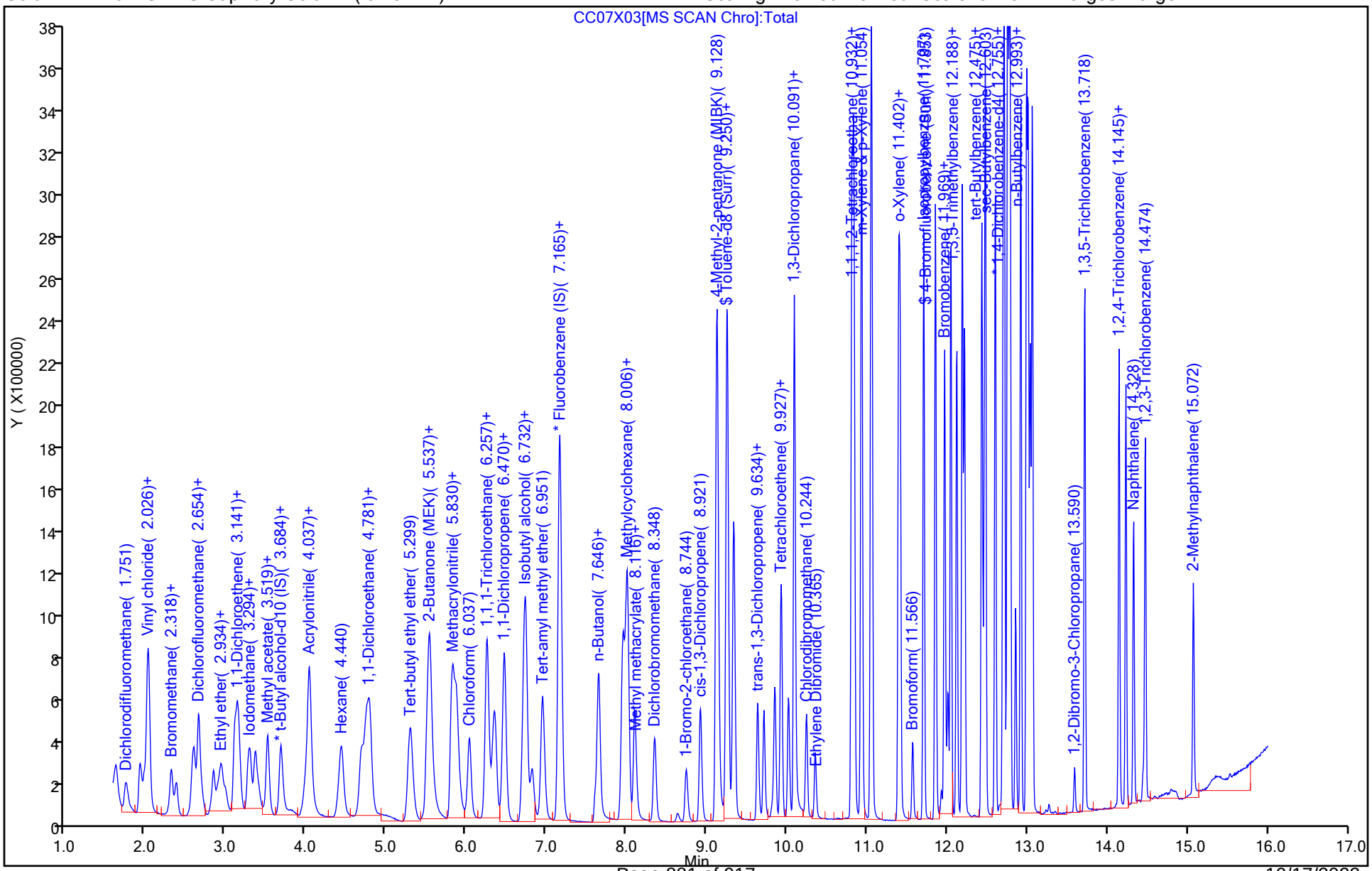
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20221007-68180.b\CC07X03.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	07-Oct-2022 11:39:30	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0068180-004				
Misc. Info.:	LCS				
Operator ID:	knk41612	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20221007-68180.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	07-Oct-2022 12:09:46	Calib Date:	22-Aug-2022 22:26:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20220822-64657.b\CG22X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1660				

First Level Reviewer: DVW2 Date: 07-Oct-2022 12:06:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	10.6	105.57
$ 58 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.49
$ 82 Toluene-d8 (Surr)	10.0	9.62	96.25
$ 121 4-Bromofluorobenzene (Surr)	10.0	9.76	97.61

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MS MS Lab Sample ID: 410-99372-6 MS

Matrix: Water Lab File ID: HO05X16.D

Analysis Method: 8260D Date Collected: 09/23/2022 11:25

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 14:30

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 303234 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.19		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	5.25		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.26		0.50	0.080
75-34-3	1,1-Dichloroethane	4.96		0.50	0.10
75-35-4	1,1-Dichloroethene	5.10		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.55		0.50	0.080
107-06-2	1,2-Dichloroethane	5.40		0.50	0.070
78-87-5	1,2-Dichloropropane	4.93		0.50	0.10
78-93-3	2-Butanone (MEK)	56.7		5.0	1.0
591-78-6	2-Hexanone	57.6		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	54.6		5.0	1.0
67-64-1	Acetone	53.7		5.0	1.0
71-43-2	Benzene	4.87		0.50	0.10
74-97-5	Bromochloromethane	4.95		0.50	0.080
75-27-4	Bromodichloromethane	5.10		0.50	0.080
75-25-2	Bromoform	5.40		1.0	0.30
74-83-9	Bromomethane	4.55		0.50	0.10
75-15-0	Carbon disulfide	5.33		1.0	0.10
56-23-5	Carbon tetrachloride	4.97		0.50	0.10
108-90-7	Chlorobenzene	5.28		0.50	0.070
75-00-3	Chloroethane	4.76		0.50	0.10
67-66-3	Chloroform	5.30		0.50	0.090
74-87-3	Chloromethane	4.76		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	6.17		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	4.93		0.50	0.10
124-48-1	Dibromochloromethane	5.50		0.50	0.080
100-41-4	Ethylbenzene	5.15		0.50	0.080
1634-04-4	Methyl tert-butyl ether	4.93		0.50	0.080
75-09-2	Methylene Chloride	4.86		0.50	0.10
100-42-5	Styrene	5.24		0.50	0.070
127-18-4	Tetrachloroethene	10.8		0.50	0.20
108-88-3	Toluene	5.19		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MS MS Lab Sample ID: 410-99372-6 MS

Matrix: Water Lab File ID: HO05X16.D

Analysis Method: 8260D Date Collected: 09/23/2022 11:25

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 14:30

Soil Aliquot Vol: Dilution Factor: 1

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

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

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

Analysis Batch No.: 303234 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	4.82		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.60		0.50	0.080
79-01-6	Trichloroethene	6.08		0.50	0.080
75-01-4	Vinyl chloride	4.53		0.50	0.10
1330-20-7	Xylenes, Total	15.7		1.0	0.070

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X16.D
Lims ID: 410-99372-A-6 MS
Client ID: HD-COD-SW-15-0/1-0 MS
Sample Type: MS
Inject. Date: 05-Oct-2022 14:30:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0067970-017
Operator ID: knk41612 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2022 14:08:22 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:08:22

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	1.934	-0.012	99	259291	5.00	4.98	
5 Chloromethane	50	2.117	2.123	-0.006	99	310471	5.00	4.76	
7 Vinyl chloride	62	2.233	2.239	-0.006	98	292416	5.00	4.53	
6 Butadiene	39	2.245	2.251	-0.006	94	365188	5.00	5.93	
9 Bromomethane	94	2.568	2.575	-0.006	91	206251	5.00	4.55	
10 Chloroethane	64	2.654	2.654	0.000	100	186557	5.00	4.76	
11 Dichlorofluoromethane	67	2.885	2.885	0.000	97	432211	5.00	4.97	
12 Trichlorofluoromethane	101	2.958	2.959	-0.001	96	377501	5.00	4.83	
14 Ethyl ether	59	3.202	3.209	-0.007	92	150986	4.99	4.62	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.282	3.288	-0.006	94	290754	5.00	4.77	
16 Acrolein	56	3.367	3.373	-0.006	98	154442	37.5	27.3	
18 1,1-Dichloroethene	96	3.507	3.513	-0.006	97	225250	5.00	5.10	
19 Acetone	43	3.532	3.532	0.000	90	353537	62.6	53.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.544	3.544	0.000	92	227180	5.00	5.27	
21 Isopropyl alcohol	45	3.702	3.690	0.012	46	32883	37.5	29.4	
22 Iodomethane	142	3.702	3.708	-0.006	98	395954	5.00	5.15	
23 Ethyl bromide	108	3.727	3.733	-0.006	98	152325	4.89	3.92	
24 Carbon disulfide	76	3.812	3.812	0.000	99	630270	5.00	5.33	
25 Methyl acetate	43	3.958	3.958	0.000	98	85412	5.00	4.90	
27 3-Chloro-1-propene	41	3.983	3.989	-0.006	93	383941	5.00	5.01	
* 29 t-Butyl alcohol-d10 (IS)	65	4.178	4.166	0.012	99	102889	50.0	50.0	
28 Methylene Chloride	84	4.166	4.166	0.000	94	222671	5.00	4.86	
31 2-Methyl-2-propanol	59	4.294	4.294	0.000	99	90534	50.0	40.7	
32 Acrylonitrile	53	4.501	4.507	-0.006	98	199120	25.0	22.4	
33 Methyl tert-butyl ether	73	4.562	4.568	-0.006	97	486819	5.00	4.93	
34 trans-1,2-Dichloroethene	96	4.586	4.592	-0.006	98	236557	5.00	4.82	
35 Hexane	57	5.007	5.013	-0.006	93	357143	5.00	5.20	
37 1,1-Dichloroethane	63	5.239	5.245	-0.006	96	455486	5.00	4.96	
38 Isopropyl ether	45	5.293	5.300	-0.007	95	742084	5.00	4.75	
39 2-Chloro-1,3-butadiene	53	5.348	5.348	0.000	90	395308	5.00	5.27	
41 Tert-butyl ethyl ether	59	5.830	5.830	0.000	99	654352	5.00	4.74	
42 2-Butanone (MEK)	43	6.019	6.019	0.000	100	649189	62.6	56.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 cis-1,2-Dichloroethene	96	6.068	6.068	0.000	83	332587	5.00	6.17	
44 2,2-Dichloropropane	77	6.086	6.080	0.006	87	387252	5.00	5.04	
45 Propionitrile	54	6.110	6.104	0.006	98	110250	37.5	37.5	
48 Methacrylonitrile	67	6.324	6.318	0.006	93	400441	37.5	31.6	
49 Chlorobromomethane	128	6.397	6.397	0.000	96	106589	5.00	4.95	
50 Tetrahydrofuran	71	6.397	6.403	-0.006	78	69810	25.0	21.3	
52 Chloroform	83	6.543	6.549	-0.006	93	459080	5.00	5.30	
$ 53 Dibromofluoromethane (Surr)	113	6.763	6.757	0.006	93	431930	10.0	10.0	
54 1,1,1-Trichloroethane	97	6.781	6.781	0.000	98	416897	5.00	5.17	
55 Cyclohexane	56	6.885	6.879	0.006	90	442034	5.00	4.84	
56 1,1-Dichloropropene	75	6.988	6.988	0.000	96	374079	5.00	5.13	
57 Carbon tetrachloride	117	6.988	6.988	0.000	85	346163	5.00	4.97	
58 Isobutyl alcohol	41	7.116	7.122	-0.006	94	89608	125.1	123.4	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.214	7.214	0.000	78	82710	10.0	10.5	
60 Benzene	78	7.244	7.244	0.000	96	1033637	5.00	4.87	
62 1,2-Dichloroethane	62	7.317	7.311	0.006	97	248702	5.00	5.40	
64 Tert-amyl methyl ether	73	7.439	7.433	0.006	98	564626	5.00	4.80	
* 65 Fluorobenzene (IS)	96	7.653	7.653	0.000	98	1699509	10.0	10.0	
66 n-Heptane	43	7.665	7.665	0.000	93	350930	5.00	4.67	
68 n-Butanol	56	8.006	8.000	0.006	88	140440	250.2	226.2	
69 Trichloroethene	95	8.128	8.128	0.000	98	339886	5.00	6.08	
70 Methylcyclohexane	83	8.445	8.439	0.006	93	448792	5.00	4.76	
71 1,2-Dichloropropane	63	8.457	8.458	-0.001	96	262809	5.00	4.93	
72 2-ethoxy-2-methyl butane	87	8.470	8.470	0.000	91	344388	5.00	4.61	
74 Methyl methacrylate	69	8.543	8.543	0.000	92	99428	5.00	3.94	
73 1,4-Dioxane	88	8.555	8.549	0.006	29	13845	125.1	85.8	M
75 Dibromomethane	93	8.567	8.567	0.000	95	111356	5.00	5.02	
77 Dichlorobromomethane	83	8.799	8.799	0.000	99	306125	5.00	5.10	
78 2-Nitropropane	41	9.067	9.061	0.006	97	26657	5.00	4.26	
80 1-Bromo-2-chloroethane	63	9.195	9.195	0.000	99	235786	5.00	4.81	
81 cis-1,3-Dichloropropene	75	9.354	9.348	0.006	96	371035	5.00	4.93	
83 4-Methyl-2-pentanone (MIBK)	43	9.518	9.512	0.006	97	1695881	62.6	54.6	
$ 84 Toluene-d8 (Surr)	98	9.658	9.658	0.000	93	1784824	10.0	10.4	
85 Toluene	92	9.738	9.732	0.006	98	661862	5.00	5.19	
86 trans-1,3-Dichloropropene	75	9.994	9.988	0.006	93	304021	5.00	5.60	
105 Ethyl methacrylate	69	10.055	10.055	0.000	89	214609	5.00	5.16	
106 1,1,2-Trichloroethane	97	10.195	10.195	0.000	91	158906	5.00	5.26	
107 Tetrachloroethene	166	10.286	10.286	0.000	98	635899	5.00	10.8	
108 1,3-Dichloropropane	76	10.359	10.360	-0.001	89	284450	5.00	5.47	
109 2-Hexanone	43	10.408	10.402	0.006	98	1185990	62.6	57.6	
111 Chlorodibromomethane	129	10.573	10.573	0.000	89	205631	5.00	5.50	
112 Ethylene Dibromide	107	10.689	10.683	0.006	99	153461	5.00	5.55	
* 113 Chlorobenzene-d5 (IS)	117	11.115	11.109	0.006	86	1402342	10.0	10.0	
114 1-Chlorohexane	91	11.122	11.122	0.000	97	392268	5.00	4.98	
115 Chlorobenzene	112	11.140	11.140	0.000	96	716706	5.00	5.28	
116 1,1,1,2-Tetrachloroethane	131	11.225	11.219	0.006	96	241766	5.00	5.19	
118 Ethylbenzene	91	11.225	11.225	0.000	99	1282680	5.00	5.15	
119 m-Xylene & p-Xylene	106	11.341	11.341	0.000	99	1002870	10.0	10.6	
120 o-Xylene	106	11.670	11.664	0.006	97	468703	5.00	5.11	
121 Styrene	104	11.682	11.682	0.000	95	780002	5.00	5.24	
122 Bromoform	173	11.841	11.841	0.000	98	116343	5.00	5.40	
123 Isopropylbenzene	105	11.969	11.963	0.006	96	1294623	5.00	5.22	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 126 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	91	693322	10.0	9.95	
127 1,1,2,2-Tetrachloroethane	83	12.207	12.207	0.000	93	195264	5.00	5.25	
128 Bromobenzene	156	12.225	12.225	0.000	95	296624	5.00	5.33	
129 trans-1,4-Dichloro-2-butene	53	12.231	12.231	0.000	91	146223	25.0	13.6	
130 1,2,3-Trichloropropane	110	12.255	12.256	-0.001	83	50239	5.00	5.38	
131 N-Propylbenzene	91	12.292	12.292	0.000	99	1557910	5.00	5.02	
132 2-Chlorotoluene	126	12.371	12.371	0.000	97	300937	5.00	5.04	
133 1,3,5-Trimethylbenzene	105	12.426	12.426	0.000	94	1059294	5.00	4.89	
134 4-Chlorotoluene	126	12.463	12.463	0.000	97	308723	5.00	5.15	
135 tert-Butylbenzene	134	12.670	12.670	0.000	93	240037	5.00	5.01	
136 Pentachloroethane	167	12.700	12.701	-0.001	93	178288	5.00	5.30	
137 1,2,4-Trimethylbenzene	105	12.713	12.707	0.006	97	1070854	5.00	4.90	
138 sec-Butylbenzene	105	12.835	12.829	0.006	94	1381782	5.00	4.87	
139 1,3-Dichlorobenzene	146	12.932	12.932	0.000	98	576295	5.00	5.00	
140 4-Isopropyltoluene	119	12.938	12.938	0.000	97	1196194	5.00	4.92	
* 141 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	94	812401	10.0	10.0	
142 1,4-Dichlorobenzene	146	13.005	13.005	0.000	95	579109	5.00	5.06	
143 1,2,3-Trimethylbenzene	120	13.011	13.012	-0.001	98	463668	5.00	4.98	
144 Benzyl chloride	126	13.078	13.079	-0.001	99	77391	5.00	5.12	
145 p-Diethylbenzene	119	13.139	13.133	0.006	92	682301	5.00	4.86	
146 n-Butylbenzene	92	13.231	13.225	0.006	97	571374	5.00	4.66	
147 1,2-Dichlorobenzene	146	13.261	13.261	0.000	99	505929	5.00	4.96	
149 1,2-Dibromo-3-Chloropropane	155	13.798	13.798	0.000	88	25239	5.00	5.14	
150 1,3,5-Trichlorobenzene	180	13.926	13.926	0.000	97	416167	5.00	4.64	
151 1,2,4-Trichlorobenzene	180	14.346	14.347	-0.001	94	332458	5.00	4.41	
152 Hexachlorobutadiene	225	14.426	14.426	0.000	96	134645	5.00	3.67	
153 Naphthalene	128	14.529	14.523	0.006	97	539671	5.00	4.43	
154 1,2,3-Trichlorobenzene	180	14.670	14.670	0.000	95	274622	5.00	4.29	
155 2-Methylnaphthalene	142	15.279	15.279	0.000	93	241545	5.00	3.29	
158 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

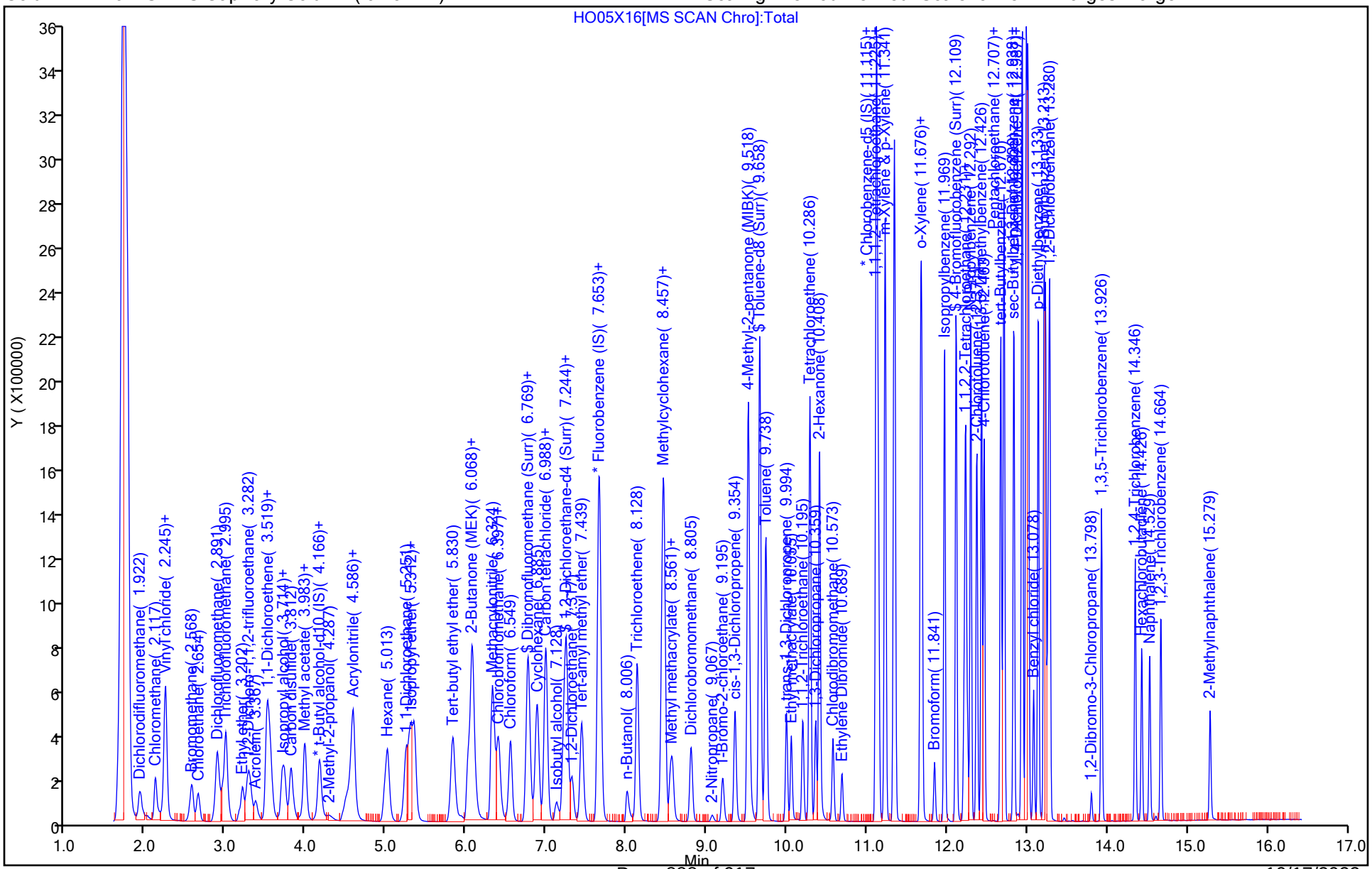
LCS_ETBR_00003	Amount Added:	5.38	Units: uL	
MSV_LCS_VOC#1_00076	Amount Added:	5.38	Units: uL	
MSV_LCS_ACROL_00078	Amount Added:	5.38	Units: uL	
MSV_LCS_EE_00003	Amount Added:	5.38	Units: uL	
MSV_QC_Gas826_00103	Amount Added:	5.38	Units: uL	
MSV_LCS_Penta_00020	Amount Added:	5.38	Units: uL	
MSV_HP25_ISSS_00057	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 06-Oct-2022 14:08:23 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X16.D				
Injection Date:	05-Oct-2022 14:30:30	Instrument ID:	19094	Operator ID:	knk41612
Lims ID:	410-99372-A-6 MS			Worklist Smp#:	17
Client ID:	HD-COD-SW-15-0/1-0 MS				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSV_19094_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X16.D				
Lims ID:	410-99372-A-6 MS				
Client ID:	HD-COD-SW-15-0/1-0 MS				
Sample Type:	MS				
Inject. Date:	05-Oct-2022 14:30:30	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0067970-017				
Operator ID:	knk41612	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Oct-2022 14:08:22	Calib Date:	11-Jul-2022 18:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1671				

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:08:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	10.0	100.41
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.37
$ 84 Toluene-d8 (Surr)	10.0	10.4	104.04
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.95	99.55

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MSD MSD Lab Sample ID: 410-99372-6 MSD

Matrix: Water Lab File ID: HO05X17.D

Analysis Method: 8260D Date Collected: 09/23/2022 11:25

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 14:51

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.: 303234 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.51		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.46		0.50	0.080
79-34-5	1,1,2,2-Tetrachloroethane	5.57		0.50	0.10
79-00-5	1,1,2-Trichloroethane	5.70		0.50	0.080
75-34-3	1,1-Dichloroethane	5.31		0.50	0.10
75-35-4	1,1-Dichloroethene	5.46		0.50	0.10
106-93-4	1,2-Dibromoethane (EDB)	5.83		0.50	0.080
107-06-2	1,2-Dichloroethane	5.69		0.50	0.070
78-87-5	1,2-Dichloropropane	5.20		0.50	0.10
78-93-3	2-Butanone (MEK)	61.3		5.0	1.0
591-78-6	2-Hexanone	61.2		5.0	0.10
108-10-1	4-Methyl-2-pentanone (MIBK)	57.9		5.0	1.0
67-64-1	Acetone	55.4		5.0	1.0
71-43-2	Benzene	5.17		0.50	0.10
74-97-5	Bromochloromethane	5.30		0.50	0.080
75-27-4	Bromodichloromethane	5.36		0.50	0.080
75-25-2	Bromoform	5.76		1.0	0.30
74-83-9	Bromomethane	4.92		0.50	0.10
75-15-0	Carbon disulfide	5.65		1.0	0.10
56-23-5	Carbon tetrachloride	5.40		0.50	0.10
108-90-7	Chlorobenzene	5.54		0.50	0.070
75-00-3	Chloroethane	5.05		0.50	0.10
67-66-3	Chloroform	5.62		0.50	0.090
74-87-3	Chloromethane	5.04		0.50	0.10
156-59-2	cis-1,2-Dichloroethene	6.56		0.50	0.080
10061-01-5	cis-1,3-Dichloropropene	5.17		0.50	0.10
124-48-1	Dibromochloromethane	5.81		0.50	0.080
100-41-4	Ethylbenzene	5.51		0.50	0.080
1634-04-4	Methyl tert-butyl ether	5.16		0.50	0.080
75-09-2	Methylene Chloride	5.12		0.50	0.10
100-42-5	Styrene	5.44		0.50	0.070
127-18-4	Tetrachloroethene	11.4		0.50	0.20
108-88-3	Toluene	5.52		0.50	0.080

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-99372-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MSD MSD Lab Sample ID: 410-99372-6 MSD

Matrix: Water Lab File ID: HO05X17.D

Analysis Method: 8260D Date Collected: 09/23/2022 11:25

Sample wt/vol: 25(mL) Date Analyzed: 10/05/2022 14:51

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.: 303234 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
156-60-5	trans-1,2-Dichloroethene	5.16		0.50	0.10
10061-02-6	trans-1,3-Dichloropropene	5.84		0.50	0.080
79-01-6	Trichloroethene	6.47		0.50	0.080
75-01-4	Vinyl chloride	4.93		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)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		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\19094\20221005-67970.b\HO05X17.D
Lims ID: 410-99372-A-6 MSD
Client ID: HD-COD-SW-15-0/1-0 MSD
Sample Type: MSD
Inject. Date: 05-Oct-2022 14:51:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0067970-018
Operator ID: knk41612 Instrument ID: 19094

Method: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Oct-2022 14:09:10 Calib Date: 11-Jul-2022 18:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1671

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:09:10

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	1.934	-0.006	99	292020	5.00	5.47	
5 Chloromethane	50	2.123	2.123	0.000	99	337124	5.00	5.04	
7 Vinyl chloride	62	2.239	2.239	0.000	97	326546	5.00	4.93	
6 Butadiene	39	2.251	2.251	0.000	94	366660	5.00	5.81	
9 Bromomethane	94	2.575	2.575	0.001	91	228879	5.00	4.92	
10 Chloroethane	64	2.654	2.654	0.000	100	202777	5.00	5.05	
11 Dichlorofluoromethane	67	2.892	2.885	0.007	97	475367	5.00	5.34	
12 Trichlorofluoromethane	101	2.965	2.959	0.006	96	420034	5.00	5.24	
14 Ethyl ether	59	3.209	3.209	0.000	93	162603	4.99	4.85	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.288	3.288	0.000	95	324419	5.00	5.20	
16 Acrolein	56	3.379	3.373	0.006	98	168553	37.5	29.6	
18 1,1-Dichloroethene	96	3.520	3.513	0.007	97	247339	5.00	5.46	
19 Acetone	43	3.538	3.532	0.006	87	366843	62.6	55.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.550	3.544	0.006	91	240223	5.00	5.44	
21 Isopropyl alcohol	45	3.709	3.690	0.018	26	38354	37.5	33.3	
22 Iodomethane	142	3.709	3.708	0.000	99	421702	5.00	5.35	
23 Ethyl bromide	108	3.739	3.733	0.006	99	161938	4.89	4.07	
24 Carbon disulfide	76	3.818	3.812	0.006	99	684996	5.00	5.65	
25 Methyl acetate	43	3.958	3.958	0.000	98	90452	5.00	5.16	
27 3-Chloro-1-propene	41	3.989	3.989	0.000	93	422235	5.00	5.37	
* 29 t-Butyl alcohol-d10 (IS)	65	4.172	4.166	0.006	99	103591	50.0	50.0	
28 Methylene Chloride	84	4.166	4.166	0.000	94	240146	5.00	5.12	
31 2-Methyl-2-propanol	59	4.294	4.294	0.000	99	108064	50.0	48.2	
32 Acrylonitrile	53	4.495	4.507	-0.012	99	217030	25.0	24.3	
33 Methyl tert-butyl ether	73	4.568	4.568	0.000	95	522286	5.00	5.16	
34 trans-1,2-Dichloroethene	96	4.592	4.592	0.000	97	259626	5.00	5.16	
35 Hexane	57	5.019	5.013	0.006	93	381044	5.00	5.41	
37 1,1-Dichloroethane	63	5.245	5.245	0.000	96	499222	5.00	5.31	
38 Isopropyl ether	45	5.306	5.300	0.006	95	807774	5.00	5.05	
39 2-Chloro-1,3-butadiene	53	5.355	5.348	0.007	90	429610	5.00	5.59	
41 Tert-butyl ethyl ether	59	5.830	5.830	0.000	98	705701	5.00	4.98	
42 2-Butanone (MEK)	43	6.025	6.019	0.006	100	706771	62.6	61.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 cis-1,2-Dichloroethene	96	6.074	6.068	0.006	83	362338	5.00	6.56	
44 2,2-Dichloropropane	77	6.086	6.080	0.006	88	426917	5.00	5.42	
45 Propionitrile	54	6.110	6.104	0.006	98	104581	37.5	35.4	
48 Methacrylonitrile	67	6.324	6.318	0.006	92	427627	37.5	33.5	
49 Chlorobromomethane	128	6.409	6.397	0.012	95	116983	5.00	5.30	
50 Tetrahydrofuran	71	6.415	6.403	0.012	81	74810	25.0	22.7	
52 Chloroform	83	6.549	6.549	0.000	93	498252	5.00	5.62	
$ 53 Dibromofluoromethane (Surr)	113	6.763	6.757	0.006	93	442319	10.0	10.0	
54 1,1,1-Trichloroethane	97	6.781	6.781	0.000	99	451046	5.00	5.46	
55 Cyclohexane	56	6.879	6.879	0.000	92	489102	5.00	5.22	
56 1,1-Dichloropropene	75	6.988	6.988	0.000	96	406141	5.00	5.44	
57 Carbon tetrachloride	117	7.001	6.988	0.013	94	385825	5.00	5.40	
58 Isobutyl alcohol	41	7.129	7.122	0.007	96	87180	125.1	119.3	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.220	7.214	0.006	94	85062	10.0	10.6	
60 Benzene	78	7.251	7.244	0.006	97	1123942	5.00	5.17	
62 1,2-Dichloroethane	62	7.318	7.311	0.007	97	268345	5.00	5.69	
64 Tert-amyl methyl ether	73	7.446	7.433	0.013	99	611338	5.00	5.07	
* 65 Fluorobenzene (IS)	96	7.653	7.653	0.000	98	1741410	10.0	10.0	
66 n-Heptane	43	7.665	7.665	0.000	87	379354	5.00	4.92	
68 n-Butanol	56	8.006	8.000	0.006	89	154967	250.2	247.9	
69 Trichloroethene	95	8.134	8.128	0.006	98	370631	5.00	6.47	
70 Methylcyclohexane	83	8.445	8.439	0.006	93	489312	5.00	5.06	
71 1,2-Dichloropropane	63	8.458	8.458	0.000	96	283988	5.00	5.20	
72 2-ethoxy-2-methyl butane	87	8.470	8.470	0.000	91	376193	5.00	4.92	
74 Methyl methacrylate	69	8.549	8.543	0.006	91	107012	5.00	4.21	
73 1,4-Dioxane	88	8.543	8.549	-0.006	31	17024	125.1	104.8	M
75 Dibromomethane	93	8.573	8.567	0.006	97	120613	5.00	5.30	
77 Dichlorobromomethane	83	8.805	8.799	0.006	99	329666	5.00	5.36	
78 2-Nitropropane	41	9.073	9.061	0.012	98	27590	5.00	4.38	
80 1-Bromo-2-chloroethane	63	9.195	9.195	0.000	98	257001	5.00	5.12	
81 cis-1,3-Dichloropropene	75	9.354	9.348	0.006	96	398545	5.00	5.17	
83 4-Methyl-2-pentanone (MIBK)	43	9.518	9.512	0.006	97	1809078	62.6	57.9	
$ 84 Toluene-d8 (Surr)	98	9.659	9.658	0.001	93	1838079	10.0	10.5	
85 Toluene	92	9.738	9.732	0.006	98	714731	5.00	5.52	
86 trans-1,3-Dichloropropene	75	9.994	9.988	0.006	93	322163	5.00	5.84	
105 Ethyl methacrylate	69	10.055	10.055	0.000	89	233016	5.00	5.51	
106 1,1,2-Trichloroethane	97	10.195	10.195	0.000	90	175052	5.00	5.70	
107 Tetrachloroethene	166	10.286	10.286	0.000	98	681618	5.00	11.4	
108 1,3-Dichloropropane	76	10.360	10.360	0.000	90	303345	5.00	5.73	
109 2-Hexanone	43	10.408	10.402	0.006	98	1269303	62.6	61.2	
111 Chlorodibromomethane	129	10.573	10.573	0.000	94	220670	5.00	5.81	
112 Ethylene Dibromide	107	10.689	10.683	0.006	97	163834	5.00	5.83	
* 113 Chlorobenzene-d5 (IS)	117	11.116	11.109	0.007	86	1425175	10.0	10.0	
114 1-Chlorohexane	91	11.122	11.122	0.000	98	421214	5.00	5.26	
115 Chlorobenzene	112	11.140	11.140	0.000	95	764742	5.00	5.54	
116 1,1,1,2-Tetrachloroethane	131	11.225	11.219	0.006	96	260640	5.00	5.51	
118 Ethylbenzene	91	11.225	11.225	0.000	98	1394383	5.00	5.51	
119 m-Xylene & p-Xylene	106	11.341	11.341	0.000	99	1073854	10.0	11.1	
120 o-Xylene	106	11.670	11.664	0.006	97	507978	5.00	5.45	
121 Styrene	104	11.683	11.682	0.001	95	822363	5.00	5.44	
122 Bromoform	173	11.841	11.841	0.000	98	126056	5.00	5.76	
123 Isopropylbenzene	105	11.969	11.963	0.006	96	1381498	5.00	5.48	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 126 4-Bromofluorobenzene (Surr)	95	12.109	12.109	0.000	92	699304	10.0	9.88	
127 1,1,2,2-Tetrachloroethane	83	12.207	12.207	0.000	94	203546	5.00	5.57	
128 Bromobenzene	156	12.225	12.225	0.000	95	312760	5.00	5.72	
129 trans-1,4-Dichloro-2-butene	53	12.231	12.231	0.000	90	163128	25.0	15.1	
130 1,2,3-Trichloropropane	110	12.256	12.256	0.000	83	53538	5.00	5.84	
131 N-Propylbenzene	91	12.292	12.292	0.000	99	1650000	5.00	5.41	
132 2-Chlorotoluene	126	12.371	12.371	0.000	97	321826	5.00	5.48	
133 1,3,5-Trimethylbenzene	105	12.426	12.426	0.000	94	1117372	5.00	5.25	
134 4-Chlorotoluene	126	12.463	12.463	0.000	97	331069	5.00	5.62	
135 tert-Butylbenzene	134	12.670	12.670	0.000	94	266757	5.00	5.67	
136 Pentachloroethane	167	12.701	12.701	0.000	92	188146	5.00	5.70	
137 1,2,4-Trimethylbenzene	105	12.713	12.707	0.006	97	1133229	5.00	5.28	
138 sec-Butylbenzene	105	12.829	12.829	0.000	94	1475384	5.00	5.30	
139 1,3-Dichlorobenzene	146	12.932	12.932	0.000	98	613036	5.00	5.41	
140 4-Isopropyltoluene	119	12.938	12.938	0.000	97	1271696	5.00	5.33	
* 141 1,4-Dichlorobenzene-d4	152	12.987	12.987	0.000	94	798275	10.0	10.0	
142 1,4-Dichlorobenzene	146	13.005	13.005	0.000	95	615148	5.00	5.47	
143 1,2,3-Trimethylbenzene	120	13.012	13.012	0.000	98	486556	5.00	5.32	
144 Benzyl chloride	126	13.079	13.079	0.000	99	80920	5.00	5.45	
145 p-Diethylbenzene	119	13.140	13.133	0.007	92	731587	5.00	5.30	
146 n-Butylbenzene	92	13.225	13.225	0.000	97	612536	5.00	5.08	
147 1,2-Dichlorobenzene	146	13.262	13.261	0.001	98	536762	5.00	5.35	
149 1,2-Dibromo-3-Chloropropane	155	13.798	13.798	0.000	87	27490	5.00	5.70	
150 1,3,5-Trichlorobenzene	180	13.926	13.926	0.000	98	449747	5.00	5.11	
151 1,2,4-Trichlorobenzene	180	14.347	14.347	0.000	94	366369	5.00	4.94	
152 Hexachlorobutadiene	225	14.432	14.426	0.006	96	157060	5.00	4.36	
153 Naphthalene	128	14.530	14.523	0.007	97	576319	5.00	4.81	
154 1,2,3-Trichlorobenzene	180	14.670	14.670	0.000	95	298932	5.00	4.75	
155 2-Methylnaphthalene	142	15.286	15.279	0.007	93	283330	5.00	3.93	
158 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:	5.38	Units: uL	
MSV_LCS_VOC#1_00076	Amount Added:	5.38	Units: uL	
MSV_LCS_ACROL_00078	Amount Added:	5.38	Units: uL	
MSV_LCS_EE_00003	Amount Added:	5.38	Units: uL	
MSV_QC_Gas826_00103	Amount Added:	5.38	Units: uL	
MSV_LCS_Penta_00020	Amount Added:	5.38	Units: uL	
MSV_HP25_ISSS_00057	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 06-Oct-2022 14:09:10 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X17.D

Injection Date: 05-Oct-2022 14:51:30 Instrument ID: 19094 Operator ID: knk41612

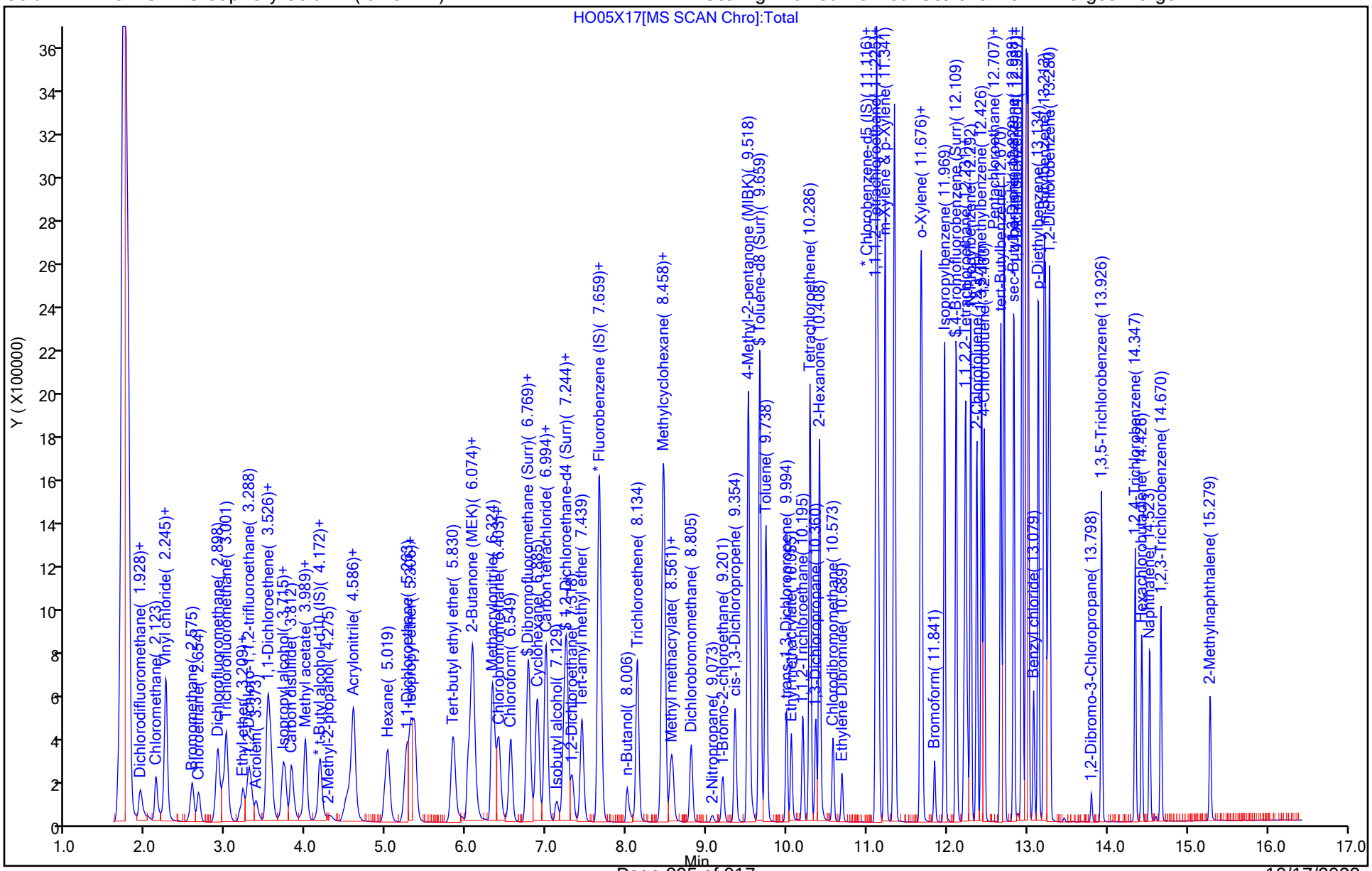
Lims ID: 410-99372-A-6 MSD Worklist Smp#: 18

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

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 17

Method: MSV_19094_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\HO05X17.D				
Lims ID:	410-99372-A-6 MSD				
Client ID:	HD-COD-SW-15-0/1-0 MSD				
Sample Type:	MSD				
Inject. Date:	05-Oct-2022 14:51:30	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0067970-018				
Operator ID:	knk41612	Instrument ID:	19094		
Method:	\\chromfs\Lancaster\ChromData\19094\20221005-67970.b\MSV_19094_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	06-Oct-2022 14:09:10	Calib Date:	11-Jul-2022 18:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19094\20220711-61489.b\Copy_HL11X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1671				

First Level Reviewer: pongsawatp Date: 06-Oct-2022 14:09:10

Compound	Amount Added	Amount Recovered	% Rec.
$ 53 Dibromofluoromethane (Surr)	10.0	10.0	100.35
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.76
$ 84 Toluene-d8 (Surr)	10.0	10.5	105.42
$ 126 4-Bromofluorobenzene (Surr)	10.0	9.88	98.80

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-99372-1

SDG No.:

Instrument ID: 19094 Start Date: 07/11/2022 13:17

Analysis Batch Number: 274149 End Date: 07/11/2022 20:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-274149/1		07/11/2022 13:17	1	HL11T03.D	R-624SilMS 30m 0.25(mm)
IC 410-274149/3		07/11/2022 13:50	1		R-624SilMS 30m 0.25(mm)
IC 410-274149/4		07/11/2022 14:10	1		R-624SilMS 30m 0.25(mm)
CCV 410-274149/1004		07/11/2022 14:10	1		R-624SilMS 30m 0.25(mm)
IC 410-274149/5		07/11/2022 14:30	1		R-624SilMS 30m 0.25(mm)
IC 410-274149/6		07/11/2022 14:50	1		R-624SilMS 30m 0.25(mm)
IC 410-274149/7		07/11/2022 15:10	1		R-624SilMS 30m 0.25(mm)
IC 410-274149/8		07/11/2022 15:30	1		R-624SilMS 30m 0.25(mm)
IC 410-274149/9		07/11/2022 15:51	1		R-624SilMS 30m 0.25(mm)
ICV 410-274149/10		07/11/2022 16:11	1		R-624SilMS 30m 0.25(mm)
IC 410-274149/12		07/11/2022 16:51	1	HL11X12.D	R-624SilMS 30m 0.25(mm)
ICIS 410-274149/13		07/11/2022 17:11	1	HL11X13.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-274149/1013		07/11/2022 17:11	1		R-624SilMS 30m 0.25(mm)
IC 410-274149/14		07/11/2022 17:31	1	HL11X14.D	R-624SilMS 30m 0.25(mm)
IC 410-274149/15		07/11/2022 17:51	1	HL11X15.D	R-624SilMS 30m 0.25(mm)
IC 410-274149/16		07/11/2022 18:11	1	HL11X16.D	R-624SilMS 30m 0.25(mm)
IC 410-274149/17		07/11/2022 18:32	1	HL11X17.D	R-624SilMS 30m 0.25(mm)
IC 410-274149/18		07/11/2022 18:52	1	Copy_HL11X18.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/11/2022 19:52	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/11/2022 20:12	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/11/2022 20:32	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-99372-1

SDG No.:

Instrument ID: 19094 Start Date: 07/14/2022 19:09

Analysis Batch Number: 275687 End Date: 07/14/2022 20:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-275687/1		07/14/2022 19:09	1	copy_HL14T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-275687/3		07/14/2022 19:44	1		R-624SilMS 30m 0.25(mm)
ICV 410-275687/4		07/14/2022 20:04	1	copy_HL14X03.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/14/2022 20:04	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/14/2022 20:24	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/14/2022 20:44	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-99372-1

SDG No.:

Instrument ID: 10193 Start Date: 08/22/2022 15:51

Analysis Batch Number: 288300 End Date: 08/22/2022 23:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-288300/1		08/22/2022 15:51	1	CG22T04.D	R-624SilMS 30m 0.25(mm)
IC 410-288300/3		08/22/2022 16:29	1		R-624SilMS 30m 0.25(mm)
IC 410-288300/4		08/22/2022 16:52	1		R-624SilMS 30m 0.25(mm)
IC 410-288300/5		08/22/2022 17:14	1		R-624SilMS 30m 0.25(mm)
IC 410-288300/6		08/22/2022 17:36	1		R-624SilMS 30m 0.25(mm)
IC 410-288300/7		08/22/2022 17:58	1		R-624SilMS 30m 0.25(mm)
IC 410-288300/8		08/22/2022 18:21	1		R-624SilMS 30m 0.25(mm)
IC 410-288300/9		08/22/2022 18:43	1		R-624SilMS 30m 0.25(mm)
IC 410-288300/13		08/22/2022 20:12	1	CG22X12.D	R-624SilMS 30m 0.25(mm)
IC 410-288300/14		08/22/2022 20:34	1	CG22X13.D	R-624SilMS 30m 0.25(mm)
IC 410-288300/15		08/22/2022 20:57	1	CG22X14.D	R-624SilMS 30m 0.25(mm)
IC 410-288300/16		08/22/2022 21:19	1	CG22X15.D	R-624SilMS 30m 0.25(mm)
IC 410-288300/17		08/22/2022 21:41	1	CG22X16.D	R-624SilMS 30m 0.25(mm)
ICIS 410-288300/18		08/22/2022 22:04	1	CG22X17.D	R-624SilMS 30m 0.25(mm)
IC 410-288300/19		08/22/2022 22:26	1	CG22X18.D	R-624SilMS 30m 0.25(mm)
ICV 410-288300/21		08/22/2022 23:10	1	CG22X20.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-99372-1

SDG No.:

Instrument ID: 19094 Start Date: 10/05/2022 09:13

Analysis Batch Number: 303234 End Date: 10/05/2022 19:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-303234/1		10/05/2022 09:13	1	HO05T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-303234/3		10/05/2022 09:46	1	HO05X02.D	R-624SilMS 30m 0.25(mm)
LCS 410-303234/4		10/05/2022 10:06	1	HO05X03.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		10/05/2022 10:26	1		R-624SilMS 30m 0.25(mm)
MB 410-303234/6		10/05/2022 10:47	1	HO05X05.D	R-624SilMS 30m 0.25(mm)
410-99372-14	HD-COD-QC1-0/1-2	10/05/2022 11:07	1	HO05X06.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		10/05/2022 11:27	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/05/2022 11:48	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/05/2022 12:08	1		R-624SilMS 30m 0.25(mm)
410-99372-1	HD-COD-SW-6-0/1-0	10/05/2022 12:28	1	HO05X10.D	R-624SilMS 30m 0.25(mm)
410-99372-2	HD-COD-SW-7-0/1-0	10/05/2022 12:49	1	HO05X11.D	R-624SilMS 30m 0.25(mm)
410-99372-3	HD-COD-SW-8-0/1-0	10/05/2022 13:09	1	HO05X12.D	R-624SilMS 30m 0.25(mm)
410-99372-4	HD-COD-SW-9-0/1-0	10/05/2022 13:29	1	HO05X13.D	R-624SilMS 30m 0.25(mm)
410-99372-5	HD-COD-SW-13-0/1-0	10/05/2022 13:50	1	HO05X14.D	R-624SilMS 30m 0.25(mm)
410-99372-6	HD-COD-SW-15-0/1-0	10/05/2022 14:10	1	HO05X15.D	R-624SilMS 30m 0.25(mm)
410-99372-6 MS	HD-COD-SW-15-0/1-0 MS MS	10/05/2022 14:30	1	HO05X16.D	R-624SilMS 30m 0.25(mm)
410-99372-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	10/05/2022 14:51	1	HO05X17.D	R-624SilMS 30m 0.25(mm)
410-99372-7	HD-COD-SW-16-0/1-0	10/05/2022 15:11	1	HO05X18.D	R-624SilMS 30m 0.25(mm)
410-99372-8	HD-COD-SW-17-0/1-0	10/05/2022 15:31	1	HO05X19.D	R-624SilMS 30m 0.25(mm)
410-99372-9	HD-COD-SW-26-0/1-0	10/05/2022 15:52	1	HO05X20.D	R-624SilMS 30m 0.25(mm)
410-99372-10	HD-COD-SW-27-0/1-0	10/05/2022 16:12	1	HO05X21.D	R-624SilMS 30m 0.25(mm)
410-99372-11	HD-COD-SW-28-0/1-0	10/05/2022 16:33	1	HO05X22.D	R-624SilMS 30m 0.25(mm)
410-99372-12	HD-COD-SW-29-0/1-0	10/05/2022 16:53	1	HO05X23.D	R-624SilMS 30m 0.25(mm)
410-99372-13	HD-COD-QC1-0/1-1	10/05/2022 17:13	1	HO05X24.D	R-624SilMS 30m 0.25(mm)
410-99372-13 DL	HD-COD-QC1-0/1-1 DL	10/05/2022 17:34	10	HO05X25.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		10/05/2022 17:54	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/05/2022 18:14	100		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/05/2022 18:35	50		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/05/2022 18:55	500		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/05/2022 19:15	1000		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/05/2022 19:36	10000		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Envi Job No.: 410-99372-1

SDG No.:

Instrument ID: 10193 Start Date: 10/07/2022 10:39

Analysis Batch Number: 304184 End Date: 10/07/2022 21:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-304184/1		10/07/2022 10:39	1	CC07T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-304184/3		10/07/2022 11:17	1	CC07X02.D	R-624SilMS 30m 0.25(mm)
LCS 410-304184/4		10/07/2022 11:39	1	CC07X03.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 12:01	1		R-624SilMS 30m 0.25(mm)
MB 410-304184/6		10/07/2022 12:23	1	CC07X05.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 12:46	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 13:08	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 13:48	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 14:10	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 14:32	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 14:55	100		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 15:17	250		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 15:39	500		R-624SilMS 30m 0.25(mm)
410-99372-8 DL	HD-COD-SW-17-0/1-0 DL	10/07/2022 16:01	10	CC07X14.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 16:24	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 16:46	100		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 17:08	20		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 17:30	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 17:53	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 18:15	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 18:37	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 19:00	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 19:22	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 19:44	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 20:06	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 20:29	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 20:51	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 21:13	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		10/07/2022 21:35	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-99372-1

SDG No.:

Batch Number: 274149 Batch Start Date: 07/11/22 13:17 Batch Analyst: Sposito, Kevin A

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	MSV_LL_#1_826 00049	MSV_LL_#2_826 00053	MSV_LL_GAS826 00101
BFB 410-274149/1		8260D		1 uL	1 uL				
IC 410-274149/12		8260D		25 mL	25 mL	2646	25 uL	25 uL	25 uL
ICIS 410-274149/13		8260D		25 mL	25 mL	2646	10 uL	10 uL	10 uL
IC 410-274149/14		8260D		25 mL	25 mL	2646	5 uL	5 uL	5 uL
IC 410-274149/15		8260D		25 mL	25 mL	2646	2 uL	2 uL	2 uL
IC 410-274149/16		8260D		25 mL	25 mL	2646	2 uL	2 uL	2 uL
IC 410-274149/17		8260D		25 mL	25 mL	2646	2 uL	2 uL	2 uL
IC 410-274149/18		8260D		25 mL	25 mL	2646	2 uL	2 uL	2 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LLcentISS 00005	MSV_V_BFB 00008				
BFB 410-274149/1		8260D			1 uL				
IC 410-274149/12		8260D		5 uL					
ICIS 410-274149/13		8260D		5 uL					
IC 410-274149/14		8260D		5 uL					
IC 410-274149/15		8260D		5 uL					
IC 410-274149/16		8260D		5 uL					
IC 410-274149/17		8260D		5 uL					
IC 410-274149/18		8260D		5 uL					

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.: 410-99372-1

SDG No.:

Batch Number: 274149 Batch Start Date: 07/11/22 13:17 Batch Analyst: Sposito, Kevin A

Batch Method: 8260D Batch End Date:

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.: 410-99372-1

SDG No.:

Batch Number: 275687 Batch Start Date: 07/14/22 19:09 Batch Analyst: Campbell, Miranda E

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	LCS_ETBR 00003	MSV_LCS_ACROL 00066	MSV_LCS_EE 00003
BFB 410-275687/1		8260D		1 uL	1 uL				
ICV 410-275687/4		8260D		25 mL	25 mL	2646	12.5 uL	12.5 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_Penta 00017	MSV_LCS_VOC#1 00063	MSV_LLcentISS 00005	MSV_QC_Gas826 00089	MSV_V_BFB 00008	
BFB 410-275687/1		8260D						1 uL	
ICV 410-275687/4		8260D		12.5 uL	12.5 uL	5 uL	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.: 410-99372-1

SDG No.:

Batch Number: 288300 Batch Start Date: 08/22/22 15:51 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	LCS_ETBR 00003	MSV_HP25_ISSS 00058	MSV_LCS_ACROL 00072
BFB 410-288300/1		8260D		1 uL	1 uL				
IC 410-288300/13		8260D		25 mL	25 mL	2656		1 uL	
IC 410-288300/14		8260D		25 mL	25 mL	2656		1 uL	
IC 410-288300/15		8260D		25 mL	25 mL	2656		1 uL	
IC 410-288300/16		8260D		25 mL	25 mL	2656		1 uL	
IC 410-288300/17		8260D		25 mL	25 mL	2656		1 uL	
ICIS 410-288300/18		8260D		25 mL	25 mL	2656		1 uL	
IC 410-288300/19		8260D		25 mL	25 mL	2656		1 uL	
ICV 410-288300/21		8260D		25 mL	25 mL	2656	12.5 uL	1 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_EE 00003	MSV_LCS_Penta 00019	MSV_LCS_VOC#1 00069	MSV_LL_#1_826 00053	MSV_LL_#2_826 00057	MSV_LL_GAS826 00109
BFB 410-288300/1		8260D							
IC 410-288300/13		8260D					2 uL	2 uL	2 uL
IC 410-288300/14		8260D					2 uL	2 uL	2 uL
IC 410-288300/15		8260D					2 uL	2 uL	2 uL
IC 410-288300/16		8260D					2 uL	2 uL	2 uL
IC 410-288300/17		8260D					5 uL	5 uL	5 uL
ICIS 410-288300/18		8260D					10 uL	10 uL	10 uL
IC 410-288300/19		8260D					25 uL	25 uL	25 uL
ICV 410-288300/21		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.: 410-99372-1

SDG No.:

Batch Number: 288300 Batch Start Date: 08/22/22 15:51 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_QC_Gas826 00096	MSV_V_BFB 00008				
BFB 410-288300/1		8260D			1 uL				
IC 410-288300/13		8260D							
IC 410-288300/14		8260D							
IC 410-288300/15		8260D							
IC 410-288300/16		8260D							
IC 410-288300/17		8260D							
ICIS 410-288300/18		8260D							
IC 410-288300/19		8260D							
ICV 410-288300/21		8260D		12.5 uL					

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-99372-1

SDG No.:

Batch Number: 303234 Batch Start Date: 10/05/22 09:13 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 410-303234/1		8260D		1 uL	1 uL				
CCVIS 410-303234/3		8260D		25 mL	25 mL				2660
LCS 410-303234/4		8260D		25 mL	25 mL				2660
MB 410-303234/6		8260D		25 mL	25 mL				2660
410-99372-A-14	HD-COD-QC1-0/1-2	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-99372-A-1	HD-COD-SW-6-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-99372-A-2	HD-COD-SW-7-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-99372-A-3	HD-COD-SW-8-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-99372-A-4	HD-COD-SW-9-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-99372-A-5	HD-COD-SW-13-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-99372-A-6	HD-COD-SW-15-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-99372-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-99372-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-99372-A-7	HD-COD-SW-16-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-99372-A-8	HD-COD-SW-17-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-99372-A-9	HD-COD-SW-26-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-99372-A-10	HD-COD-SW-27-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-99372-A-11	HD-COD-SW-28-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-99372-A-12	HD-COD-SW-29-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-99372-A-13	HD-COD-QC1-0/1-1	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-99372-B-13	HD-COD-QC1-0/1-1	8260D	T	25 mL	25 mL	<2 SU	N	N	2660

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.: 410-99372-1

SDG No.:

Batch Number: 303234 Batch Start Date: 10/05/22 09:13 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCS_ETBR 00003	MSV_HP25_ISSS 00057	MSV_LCS_ACROL 00078	MSV_LCS_EE 00003	MSV_LCS_Penta 00020	MSV_LCS_VOC#1 00076
BFB 410-303234/1		8260D							
CCVIS 410-303234/3		8260D			1 uL				
LCS 410-303234/4		8260D		12.5 uL	1 uL	12.5 uL	12.5 uL	12.5 uL	12.5 uL
MB 410-303234/6		8260D			1 uL				
410-99372-A-14	HD-COD-QC1-0/1-2	8260D	T		1 uL				
410-99372-A-1	HD-COD-SW-6-0/1-0	8260D	T		1 uL				
410-99372-A-2	HD-COD-SW-7-0/1-0	8260D	T		1 uL				
410-99372-A-3	HD-COD-SW-8-0/1-0	8260D	T		1 uL				
410-99372-A-4	HD-COD-SW-9-0/1-0	8260D	T		1 uL				
410-99372-A-5	HD-COD-SW-13-0/1-0	8260D	T		1 uL				
410-99372-A-6	HD-COD-SW-15-0/1-0	8260D	T		1 uL				
410-99372-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
410-99372-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
410-99372-A-7	HD-COD-SW-16-0/1-0	8260D	T		1 uL				
410-99372-A-8	HD-COD-SW-17-0/1-0	8260D	T		1 uL				
410-99372-A-9	HD-COD-SW-26-0/1-0	8260D	T		1 uL				
410-99372-A-10	HD-COD-SW-27-0/1-0	8260D	T		1 uL				
410-99372-A-11	HD-COD-SW-28-0/1-0	8260D	T		1 uL				
410-99372-A-12	HD-COD-SW-29-0/1-0	8260D	T		1 uL				
410-99372-A-13	HD-COD-QC1-0/1-1	8260D	T		1 uL				
410-99372-B-13	HD-COD-QC1-0/1-1	8260D	T		1 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_#1_826 00054	MSV_LL_#2_826 00058	MSV_LL_GAS826 00115	MSV_QC_Gas826 00103	MSV_V_BFB 00008	

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.: 410-99372-1

SDG No.:

Batch Number: 303234 Batch Start Date: 10/05/22 09:13 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_#1_826 00054	MSV_LL_#2_826 00058	MSV_LL_GAS826 00115	MSV_QC_Gas826 00103	MSV_V_BFB 00008	
BFB 410-303234/1		8260D						1 uL	
CCVIS 410-303234/3		8260D		20 uL	20 uL	20 uL			
LCS 410-303234/4		8260D					12.5 uL		
MB 410-303234/6		8260D							
410-99372-A-14	HD-COD-QC1-0/1-2	8260D	T						
410-99372-A-1	HD-COD-SW-6-0/1-0	8260D	T						
410-99372-A-2	HD-COD-SW-7-0/1-0	8260D	T						
410-99372-A-3	HD-COD-SW-8-0/1-0	8260D	T						
410-99372-A-4	HD-COD-SW-9-0/1-0	8260D	T						
410-99372-A-5	HD-COD-SW-13-0/1-0	8260D	T						
410-99372-A-6	HD-COD-SW-15-0/1-0	8260D	T						
410-99372-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	T				5.38 uL		
410-99372-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	T				5.38 uL		
410-99372-A-7	HD-COD-SW-16-0/1-0	8260D	T						
410-99372-A-8	HD-COD-SW-17-0/1-0	8260D	T						
410-99372-A-9	HD-COD-SW-26-0/1-0	8260D	T						
410-99372-A-10	HD-COD-SW-27-0/1-0	8260D	T						
410-99372-A-11	HD-COD-SW-28-0/1-0	8260D	T						
410-99372-A-12	HD-COD-SW-29-0/1-0	8260D	T						
410-99372-A-13	HD-COD-QC1-0/1-1	8260D	T						
410-99372-B-13	HD-COD-QC1-0/1-1	8260D	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-99372-1

SDG No.:

Batch Number: 303234 Batch Start Date: 10/05/22 09:13 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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-99372-1

SDG No.:

Batch Number: 304184 Batch Start Date: 10/07/22 10:39 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 410-304184/1		8260D		1 uL	1 uL				
CCVIS 410-304184/3		8260D		25 mL	25 mL				2660
LCS 410-304184/4		8260D		25 mL	25 mL				2660
MB 410-304184/6		8260D		25 mL	25 mL				2660
410-99372-B-8	HD-COD-SW-17-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	2660

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCS_ETBR 00003	MSV_HP25_ISSS 00059	MSV_LCS_ACROL 00078	MSV_LCS_EE 00003	MSV_LCS_Penta 00020	MSV_LCS_VOC#1 00076
BFB 410-304184/1		8260D							
CCVIS 410-304184/3		8260D			1 uL				
LCS 410-304184/4		8260D		12.5 uL	1 uL	12.5 uL	12.5 uL	12.5 uL	12.5 uL
MB 410-304184/6		8260D			1 uL				
410-99372-B-8	HD-COD-SW-17-0/1-0	8260D	T		1 uL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_#1_826 00055	MSV_LL_#2_826 00059	MSV_LL_GAS826 00115	MSV_QC_Gas826 00103	MSV_V_BFB 00008	
BFB 410-304184/1		8260D						1 uL	
CCVIS 410-304184/3		8260D		20 uL	20 uL	20 uL			
LCS 410-304184/4		8260D					12.5 uL		
MB 410-304184/6		8260D							
410-99372-B-8	HD-COD-SW-17-0/1-0	8260D	T						

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-99372-1

SDG No.:

Batch Number: 304184 Batch Start Date: 10/07/22 10:39 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.

Shipping and Receiving Documents

180504
Harrisburg, PA

Environmental Analysis Request

410-99372 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 / ~~Chris O'Neil~~ SCOTT MORGAN	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	Ground	Potable	Surface	NPDES	Other:	Total # of Containers	Analyses Requested: Aqueous VOCs via 8260D (low level - 25 ml purge)	Preservation Codes: H
HD-COD-SW-6-0/1-0	9/23/22	1010	X					X						3	X	
HD-COD-SW-7-0/1-0		1055	X					X						3	X	
HD-COD-SW-8-0/1-0		0900	X					X						3	X	
HD-COD-SW-9-0/1-0		1220	X					X						3	X	
HD-COD-SW-13-0/1-0		0915	X					X						3	X	
HD-COD-SW-15-0/1-0		1125	X					X						3	X	
HD-COD-SW-15-0/1-0 MS		1125	X					X						3	X	
HD-COD-SW-15-0/1-0 MSD		1125	X					X						3	X	
HD-COD-SW-16-0/1-0		0935	X					X						3	X	
HD-COD-SW-17-0/1-0		0955	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

Remarks

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☒ Phone ☐

E-mail Address: ON-FILE

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category	☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: _ CLP Like Deliverables, Project Specific Analyte List

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	9/23/22	1351	[signature]	9/23/22	1351
[signature]	9/26/22	1710	[signature]	9/26/22	1710
[signature]	9/26/22	1631	[signature]		
			[signature]	9-26-22	1845

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 3.2 °C

180504
Harrisburg, PA

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 / ~~Chris O'Neil~~ SCOTT MORGAN	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)	Remarks
HD-COD-SW-26-0/1-0	9/23/22	1035	X					X					3	X	
HD-COD-SW-27-0/1-0		1115	X					X					3	X	
HD-COD-SW-28-0/1-0		1235	X					X					3	X	
HD-COD-SW-29-0/1-0		0845	X					X					3	X	
HD-QC1-0/1-1		0800	X					X					3	X	DUPLICATE
HD-QC1-0/1-2		—	X									X	2	X	Trip Blank

For Lab Use Only
SF #: _____
SCR #: _____

Preservation Codes
H = HCl (circled) T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
O = Other

Preservation Codes: H

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]	9/23/22	1351	[signature]	9/23/22	1357
[signature]	9/26/22	1710	[signature]	9/26/22	1710
[signature]	9/26/22	1831			
			[signature]	9-26-22	1845

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 3.2 °C

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-99372-1

Login Number: 99372
List Number: 1
Creator: Renner, Melissa

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature 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.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation Job Number: 410-99372-1

Login Number: 99372 **List Source: Eurofins Lancaster Laboratories Environment Testing, LLC**
List Number: 2
Creator: Renner, Melissa

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		