ANALYTICAL REPORT

Job Number: 410-64660-1

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
12/6/2021 10:44 AM

Marrissa C Williams, Project Manager
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12/06/2021

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.
^c	CCV Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-64660-1

Receipt
The samples were received on 11/23/2021 6:34 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C

GC/MS VOA
Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-200572 recovered above the upper control limit for 2-Butanone, 2-Hexanone and 4-Methyl-2-pentanone. Non-detections of the affected analytes are reported. Any detections are considered estimated.

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

Detection Summary

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

Job ID: 410-64660-1

Client Sample ID: HD-COD-SW-6-0/1-0 — Lab Sample ID: 410-64660-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.0	J	5.0	0.90	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.11	J	0.50	0.050	ug/L	1		8260D	Total/NA
Trichloroethene	0.12	J	0.50	0.060	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-7-0/1-0 — Lab Sample ID: 410-64660-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.2	J	5.0	0.90	ug/L	1		8260D	Total/NA
Carbon disulfide	0.062	J	1.0	0.060	ug/L	1		8260D	Total/NA
Chloroform	0.094	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.12	J	0.50	0.050	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.076	J	0.50	0.060	ug/L	1		8260D	Total/NA
Trichloroethene	0.15	J	0.50	0.060	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-8-0/1-0 — Lab Sample ID: 410-64660-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.0	J	5.0	0.90	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.17	J	0.50	0.050	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.49	J	0.50	0.060	ug/L	1		8260D	Total/NA
Trichloroethene	0.22	J	0.50	0.060	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-9-0/1-0 — Lab Sample ID: 410-64660-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.6	J	5.0	0.90	ug/L	1		8260D	Total/NA
Chloroform	0.10	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.11	J	0.50	0.050	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.19	J	0.50	0.060	ug/L	1		8260D	Total/NA
Trichloroethene	0.13	J	0.50	0.060	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-13-0/1-0 — Lab Sample ID: 410-64660-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	0.91	J	5.0	0.90	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.17	J	0.50	0.050	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.56		0.50	0.060	ug/L	1		8260D	Total/NA
Trichloroethene	0.20	J	0.50	0.060	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-15-0/1-0 — Lab Sample ID: 410-64660-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.19	J	0.50	0.060	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.11	J	0.50	0.070	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.13	J	0.50	0.060	ug/L	1		8260D	Total/NA
Chloroform	0.34	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.93		0.50	0.050	ug/L	1		8260D	Total/NA
Tetrachloroethene	4.8		0.50	0.060	ug/L	1		8260D	Total/NA
Trichloroethene	1.1		0.50	0.060	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-16-0/1-0 — Lab Sample ID: 410-64660-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.072	J	0.50	0.060	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: 410-64660-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.2	J	5.0	0.90	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.18	J	0.50	0.050	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.93		0.50	0.060	ug/L	1		8260D	Total/NA
Trichloroethene	0.24	J	0.50	0.060	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-17-0/1-0 — Lab Sample ID: 410-64660-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	6.2		0.50	0.060	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.91		0.50	0.070	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.56		0.50	0.060	ug/L	1		8260D	Total/NA
Chloroform	0.31	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	4.7		0.50	0.050	ug/L	1		8260D	Total/NA
Trichloroethene	9.4		0.50	0.060	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	61		5.0	0.60	ug/L	10		8260D	Total/NA

Client Sample ID: HD-COD-SW-26-0/1-0 — Lab Sample ID: 410-64660-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.20	J	0.50	0.060	ug/L	1		8260D	Total/NA
Chloroform	0.80		0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.093	J	0.50	0.050	ug/L	1		8260D	Total/NA
Tetrachloroethene	4.1		0.50	0.060	ug/L	1		8260D	Total/NA
Trichloroethene	0.20	J	0.50	0.060	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-27-0/1-0 — Lab Sample ID: 410-64660-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.2	J	5.0	0.90	ug/L	1		8260D	Total/NA
Carbon disulfide	0.073	J	1.0	0.060	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.11	J	0.50	0.050	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.098	J	0.50	0.060	ug/L	1		8260D	Total/NA
Trichloroethene	0.15	J	0.50	0.060	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-28-0/1-0 — Lab Sample ID: 410-64660-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.5	J	5.0	0.90	ug/L	1		8260D	Total/NA
Chloroform	0.10	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.11	J	0.50	0.050	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.19	J	0.50	0.060	ug/L	1		8260D	Total/NA
Trichloroethene	0.13	J	0.50	0.060	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-29-0/1-0 — Lab Sample ID: 410-64660-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.2	J	5.0	0.90	ug/L	1		8260D	Total/NA
Chloromethane	0.060	J	0.50	0.060	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.15	J	0.50	0.050	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.33	J	0.50	0.060	ug/L	1		8260D	Total/NA
Trichloroethene	0.19	J	0.50	0.060	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 410-64660-1

Client Sample ID: HD-QC1-0/1-1 — Lab Sample ID: 410-64660-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	6.1		0.50	0.060	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	0.90		0.50	0.070	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.55		0.50	0.060	ug/L	1		8260D	Total/NA
Chloroform	0.30	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	4.6		0.50	0.050	ug/L	1		8260D	Total/NA
Trichloroethene	9.2		0.50	0.060	ug/L	1		8260D	Total/NA
Tetrachloroethene - DL	60		5.0	0.60	ug/L	10		8260D	Total/NA

Client Sample ID: HD-QC1-0/1-2 — Lab Sample ID: 410-64660-14

No Detections.

This Detection Summary does not include radiochemical test results.

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

Date Collected: 11/23/21 10:00
Date Received: 11/23/21 18:34

Lab Sample ID: 410-64660-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/02/21 14:58	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			12/02/21 14:58	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/02/21 14:58	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			12/02/21 14:58	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			12/02/21 14:58	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			12/02/21 14:58	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			12/02/21 14:58	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			12/02/21 14:58	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			12/02/21 14:58	1
2-Butanone (MEK)	ND	^c	5.0	0.60	ug/L			12/02/21 14:58	1
2-Hexanone	ND	^c *+	5.0	0.60	ug/L			12/02/21 14:58	1
4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70	ug/L			12/02/21 14:58	1
Acetone	**1.0**	**J**	5.0	0.90	ug/L			12/02/21 14:58	1
Benzene	ND		0.50	0.050	ug/L			12/02/21 14:58	1
Bromochloromethane	ND		0.50	0.050	ug/L			12/02/21 14:58	1
Bromodichloromethane	ND		0.50	0.050	ug/L			12/02/21 14:58	1
Bromoform	ND		1.0	0.30	ug/L			12/02/21 14:58	1
Bromomethane	ND		0.50	0.070	ug/L			12/02/21 14:58	1
Carbon disulfide	ND		1.0	0.060	ug/L			12/02/21 14:58	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			12/02/21 14:58	1
Chlorobenzene	ND		0.50	0.060	ug/L			12/02/21 14:58	1
Chloroethane	ND		0.50	0.070	ug/L			12/02/21 14:58	1
Chloroform	ND		0.50	0.090	ug/L			12/02/21 14:58	1
Chloromethane	ND		0.50	0.060	ug/L			12/02/21 14:58	1
cis-1,2-Dichloroethene	**0.11**	**J**	0.50	0.050	ug/L			12/02/21 14:58	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			12/02/21 14:58	1
Dibromochloromethane	ND		0.50	0.070	ug/L			12/02/21 14:58	1
Ethylbenzene	ND		0.50	0.060	ug/L			12/02/21 14:58	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			12/02/21 14:58	1
Methylene Chloride	ND		0.50	0.070	ug/L			12/02/21 14:58	1
Styrene	ND		0.50	0.050	ug/L			12/02/21 14:58	1
Tetrachloroethene	ND		0.50	0.060	ug/L			12/02/21 14:58	1
Toluene	ND		0.50	0.070	ug/L			12/02/21 14:58	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			12/02/21 14:58	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			12/02/21 14:58	1
Trichloroethene	**0.12**	**J**	0.50	0.060	ug/L			12/02/21 14:58	1
Vinyl chloride	ND		0.50	0.10	ug/L			12/02/21 14:58	1
Xylenes, Total	ND		1.0	0.15	ug/L			12/02/21 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*12/02/21 14:58*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*12/02/21 14:58*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*12/02/21 14:58*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/02/21 14:58*	*1*

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

Date Collected: 11/23/21 10:40
Date Received: 11/23/21 18:34

Lab Sample ID: 410-64660-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/02/21 15:19	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			12/02/21 15:19	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/02/21 15:19	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			12/02/21 15:19	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			12/02/21 15:19	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			12/02/21 15:19	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			12/02/21 15:19	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			12/02/21 15:19	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			12/02/21 15:19	1
2-Butanone (MEK)	ND	^c	5.0	0.60	ug/L			12/02/21 15:19	1
2-Hexanone	ND	^c *+	5.0	0.60	ug/L			12/02/21 15:19	1
4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70	ug/L			12/02/21 15:19	1
Acetone	**1.2**	**J**	5.0	0.90	ug/L			12/02/21 15:19	1
Benzene	ND		0.50	0.050	ug/L			12/02/21 15:19	1
Bromochloromethane	ND		0.50	0.050	ug/L			12/02/21 15:19	1
Bromodichloromethane	ND		0.50	0.050	ug/L			12/02/21 15:19	1
Bromoform	ND		1.0	0.30	ug/L			12/02/21 15:19	1
Bromomethane	ND		0.50	0.070	ug/L			12/02/21 15:19	1
Carbon disulfide	**0.062**	**J**	1.0	0.060	ug/L			12/02/21 15:19	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			12/02/21 15:19	1
Chlorobenzene	ND		0.50	0.060	ug/L			12/02/21 15:19	1
Chloroethane	ND		0.50	0.070	ug/L			12/02/21 15:19	1
Chloroform	**0.094**	**J**	0.50	0.090	ug/L			12/02/21 15:19	1
Chloromethane	ND		0.50	0.060	ug/L			12/02/21 15:19	1
cis-1,2-Dichloroethene	**0.12**	**J**	0.50	0.050	ug/L			12/02/21 15:19	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			12/02/21 15:19	1
Dibromochloromethane	ND		0.50	0.070	ug/L			12/02/21 15:19	1
Ethylbenzene	ND		0.50	0.060	ug/L			12/02/21 15:19	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			12/02/21 15:19	1
Methylene Chloride	ND		0.50	0.070	ug/L			12/02/21 15:19	1
Styrene	ND		0.50	0.050	ug/L			12/02/21 15:19	1
Tetrachloroethene	**0.076**	**J**	0.50	0.060	ug/L			12/02/21 15:19	1
Toluene	ND		0.50	0.070	ug/L			12/02/21 15:19	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			12/02/21 15:19	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			12/02/21 15:19	1
Trichloroethene	**0.15**	**J**	0.50	0.060	ug/L			12/02/21 15:19	1
Vinyl chloride	ND		0.50	0.10	ug/L			12/02/21 15:19	1
Xylenes, Total	ND		1.0	0.15	ug/L			12/02/21 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*12/02/21 15:19*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*12/02/21 15:19*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*12/02/21 15:19*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/02/21 15:19*	*1*

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

Date Collected: 11/23/21 08:55
Date Received: 11/23/21 18:34

Lab Sample ID: 410-64660-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/02/21 15:41	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			12/02/21 15:41	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/02/21 15:41	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			12/02/21 15:41	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			12/02/21 15:41	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			12/02/21 15:41	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			12/02/21 15:41	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			12/02/21 15:41	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			12/02/21 15:41	1
2-Butanone (MEK)	ND	^c	5.0	0.60	ug/L			12/02/21 15:41	1
2-Hexanone	ND	^c *+	5.0	0.60	ug/L			12/02/21 15:41	1
4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70	ug/L			12/02/21 15:41	1
Acetone	**1.0**	**J**	5.0	0.90	ug/L			12/02/21 15:41	1
Benzene	ND		0.50	0.050	ug/L			12/02/21 15:41	1
Bromochloromethane	ND		0.50	0.050	ug/L			12/02/21 15:41	1
Bromodichloromethane	ND		0.50	0.050	ug/L			12/02/21 15:41	1
Bromoform	ND		1.0	0.30	ug/L			12/02/21 15:41	1
Bromomethane	ND		0.50	0.070	ug/L			12/02/21 15:41	1
Carbon disulfide	ND		1.0	0.060	ug/L			12/02/21 15:41	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			12/02/21 15:41	1
Chlorobenzene	ND		0.50	0.060	ug/L			12/02/21 15:41	1
Chloroethane	ND		0.50	0.070	ug/L			12/02/21 15:41	1
Chloroform	ND		0.50	0.090	ug/L			12/02/21 15:41	1
Chloromethane	ND		0.50	0.060	ug/L			12/02/21 15:41	1
cis-1,2-Dichloroethene	**0.17**	**J**	0.50	0.050	ug/L			12/02/21 15:41	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			12/02/21 15:41	1
Dibromochloromethane	ND		0.50	0.070	ug/L			12/02/21 15:41	1
Ethylbenzene	ND		0.50	0.060	ug/L			12/02/21 15:41	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			12/02/21 15:41	1
Methylene Chloride	ND		0.50	0.070	ug/L			12/02/21 15:41	1
Styrene	ND		0.50	0.050	ug/L			12/02/21 15:41	1
Tetrachloroethene	**0.49**	**J**	0.50	0.060	ug/L			12/02/21 15:41	1
Toluene	ND		0.50	0.070	ug/L			12/02/21 15:41	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			12/02/21 15:41	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			12/02/21 15:41	1
Trichloroethene	**0.22**	**J**	0.50	0.060	ug/L			12/02/21 15:41	1
Vinyl chloride	ND		0.50	0.10	ug/L			12/02/21 15:41	1
Xylenes, Total	ND		1.0	0.15	ug/L			12/02/21 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*12/02/21 15:41*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*12/02/21 15:41*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*12/02/21 15:41*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/02/21 15:41*	*1*

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

Date Collected: 11/23/21 11:50
Date Received: 11/23/21 18:34

Lab Sample ID: 410-64660-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/02/21 16:02	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			12/02/21 16:02	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/02/21 16:02	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			12/02/21 16:02	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			12/02/21 16:02	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			12/02/21 16:02	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			12/02/21 16:02	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			12/02/21 16:02	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			12/02/21 16:02	1
2-Butanone (MEK)	ND	^c	5.0	0.60	ug/L			12/02/21 16:02	1
2-Hexanone	ND	^c *+	5.0	0.60	ug/L			12/02/21 16:02	1
4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70	ug/L			12/02/21 16:02	1
Acetone	**1.6**	**J**	5.0	0.90	ug/L			12/02/21 16:02	1
Benzene	ND		0.50	0.050	ug/L			12/02/21 16:02	1
Bromochloromethane	ND		0.50	0.050	ug/L			12/02/21 16:02	1
Bromodichloromethane	ND		0.50	0.050	ug/L			12/02/21 16:02	1
Bromoform	ND		1.0	0.30	ug/L			12/02/21 16:02	1
Bromomethane	ND		0.50	0.070	ug/L			12/02/21 16:02	1
Carbon disulfide	ND		1.0	0.060	ug/L			12/02/21 16:02	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			12/02/21 16:02	1
Chlorobenzene	ND		0.50	0.060	ug/L			12/02/21 16:02	1
Chloroethane	ND		0.50	0.070	ug/L			12/02/21 16:02	1
Chloroform	**0.10**	**J**	0.50	0.090	ug/L			12/02/21 16:02	1
Chloromethane	ND		0.50	0.060	ug/L			12/02/21 16:02	1
cis-1,2-Dichloroethene	**0.11**	**J**	0.50	0.050	ug/L			12/02/21 16:02	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			12/02/21 16:02	1
Dibromochloromethane	ND		0.50	0.070	ug/L			12/02/21 16:02	1
Ethylbenzene	ND		0.50	0.060	ug/L			12/02/21 16:02	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			12/02/21 16:02	1
Methylene Chloride	ND		0.50	0.070	ug/L			12/02/21 16:02	1
Styrene	ND		0.50	0.050	ug/L			12/02/21 16:02	1
Tetrachloroethene	**0.19**	**J**	0.50	0.060	ug/L			12/02/21 16:02	1
Toluene	ND		0.50	0.070	ug/L			12/02/21 16:02	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			12/02/21 16:02	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			12/02/21 16:02	1
Trichloroethene	**0.13**	**J**	0.50	0.060	ug/L			12/02/21 16:02	1
Vinyl chloride	ND		0.50	0.10	ug/L			12/02/21 16:02	1
Xylenes, Total	ND		1.0	0.15	ug/L			12/02/21 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*12/02/21 16:02*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*12/02/21 16:02*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*12/02/21 16:02*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/02/21 16:02*	*1*

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

Date Collected: 11/23/21 09:10
Date Received: 11/23/21 18:34

Lab Sample ID: 410-64660-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/02/21 16:23	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			12/02/21 16:23	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/02/21 16:23	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			12/02/21 16:23	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			12/02/21 16:23	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			12/02/21 16:23	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			12/02/21 16:23	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			12/02/21 16:23	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			12/02/21 16:23	1
2-Butanone (MEK)	ND	^c	5.0	0.60	ug/L			12/02/21 16:23	1
2-Hexanone	ND	^c *+	5.0	0.60	ug/L			12/02/21 16:23	1
4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70	ug/L			12/02/21 16:23	1
Acetone	**0.91**	**J**	5.0	0.90	ug/L			12/02/21 16:23	1
Benzene	ND		0.50	0.050	ug/L			12/02/21 16:23	1
Bromochloromethane	ND		0.50	0.050	ug/L			12/02/21 16:23	1
Bromodichloromethane	ND		0.50	0.050	ug/L			12/02/21 16:23	1
Bromoform	ND		1.0	0.30	ug/L			12/02/21 16:23	1
Bromomethane	ND		0.50	0.070	ug/L			12/02/21 16:23	1
Carbon disulfide	ND		1.0	0.060	ug/L			12/02/21 16:23	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			12/02/21 16:23	1
Chlorobenzene	ND		0.50	0.060	ug/L			12/02/21 16:23	1
Chloroethane	ND		0.50	0.070	ug/L			12/02/21 16:23	1
Chloroform	ND		0.50	0.090	ug/L			12/02/21 16:23	1
Chloromethane	ND		0.50	0.060	ug/L			12/02/21 16:23	1
cis-1,2-Dichloroethene	**0.17**	**J**	0.50	0.050	ug/L			12/02/21 16:23	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			12/02/21 16:23	1
Dibromochloromethane	ND		0.50	0.070	ug/L			12/02/21 16:23	1
Ethylbenzene	ND		0.50	0.060	ug/L			12/02/21 16:23	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			12/02/21 16:23	1
Methylene Chloride	ND		0.50	0.070	ug/L			12/02/21 16:23	1
Styrene	ND		0.50	0.050	ug/L			12/02/21 16:23	1
Tetrachloroethene	**0.56**		0.50	0.060	ug/L			12/02/21 16:23	1
Toluene	ND		0.50	0.070	ug/L			12/02/21 16:23	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			12/02/21 16:23	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			12/02/21 16:23	1
Trichloroethene	**0.20**	**J**	0.50	0.060	ug/L			12/02/21 16:23	1
Vinyl chloride	ND		0.50	0.10	ug/L			12/02/21 16:23	1
Xylenes, Total	ND		1.0	0.15	ug/L			12/02/21 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*12/02/21 16:23*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*12/02/21 16:23*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*12/02/21 16:23*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/02/21 16:23*	*1*

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

Date Collected: 11/23/21 11:05
Date Received: 11/23/21 18:34

Lab Sample ID: 410-64660-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/02/21 13:34	1
1,1,1-Trichloroethane	**0.19**	**J**	0.50	0.060	ug/L			12/02/21 13:34	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/02/21 13:34	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			12/02/21 13:34	1
1,1-Dichloroethane	**0.11**	**J**	0.50	0.070	ug/L			12/02/21 13:34	1
1,1-Dichloroethene	**0.13**	**J**	0.50	0.060	ug/L			12/02/21 13:34	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			12/02/21 13:34	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			12/02/21 13:34	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			12/02/21 13:34	1
2-Butanone (MEK)	ND	^c	5.0	0.60	ug/L			12/02/21 13:34	1
2-Hexanone	ND	^c *+	5.0	0.60	ug/L			12/02/21 13:34	1
4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70	ug/L			12/02/21 13:34	1
Acetone	ND		5.0	0.90	ug/L			12/02/21 13:34	1
Benzene	ND		0.50	0.050	ug/L			12/02/21 13:34	1
Bromochloromethane	ND		0.50	0.050	ug/L			12/02/21 13:34	1
Bromodichloromethane	ND		0.50	0.050	ug/L			12/02/21 13:34	1
Bromoform	ND		1.0	0.30	ug/L			12/02/21 13:34	1
Bromomethane	ND		0.50	0.070	ug/L			12/02/21 13:34	1
Carbon disulfide	ND		1.0	0.060	ug/L			12/02/21 13:34	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			12/02/21 13:34	1
Chlorobenzene	ND		0.50	0.060	ug/L			12/02/21 13:34	1
Chloroethane	ND		0.50	0.070	ug/L			12/02/21 13:34	1
Chloroform	**0.34**	**J**	0.50	0.090	ug/L			12/02/21 13:34	1
Chloromethane	ND		0.50	0.060	ug/L			12/02/21 13:34	1
cis-1,2-Dichloroethene	**0.93**		0.50	0.050	ug/L			12/02/21 13:34	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			12/02/21 13:34	1
Dibromochloromethane	ND		0.50	0.070	ug/L			12/02/21 13:34	1
Ethylbenzene	ND		0.50	0.060	ug/L			12/02/21 13:34	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			12/02/21 13:34	1
Methylene Chloride	ND		0.50	0.070	ug/L			12/02/21 13:34	1
Styrene	ND		0.50	0.050	ug/L			12/02/21 13:34	1
Tetrachloroethene	**4.8**		0.50	0.060	ug/L			12/02/21 13:34	1
Toluene	ND		0.50	0.070	ug/L			12/02/21 13:34	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			12/02/21 13:34	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			12/02/21 13:34	1
Trichloroethene	**1.1**		0.50	0.060	ug/L			12/02/21 13:34	1
Vinyl chloride	ND		0.50	0.10	ug/L			12/02/21 13:34	1
Xylenes, Total	ND		1.0	0.15	ug/L			12/02/21 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*12/02/21 13:34*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*12/02/21 13:34*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*12/02/21 13:34*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/02/21 13:34*	*1*

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

Date Collected: 11/23/21 09:30
Date Received: 11/23/21 18:34

Lab Sample ID: 410-64660-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/03/21 16:31	1
1,1,1-Trichloroethane	**0.072**	**J**	0.50	0.060	ug/L			12/03/21 16:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/03/21 16:31	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			12/03/21 16:31	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			12/03/21 16:31	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			12/03/21 16:31	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			12/03/21 16:31	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			12/03/21 16:31	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			12/03/21 16:31	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			12/03/21 16:31	1
2-Hexanone	ND		5.0	0.60	ug/L			12/03/21 16:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			12/03/21 16:31	1
Acetone	**1.2**	**J**	5.0	0.90	ug/L			12/03/21 16:31	1
Benzene	ND		0.50	0.050	ug/L			12/03/21 16:31	1
Bromochloromethane	ND		0.50	0.050	ug/L			12/03/21 16:31	1
Bromodichloromethane	ND		0.50	0.050	ug/L			12/03/21 16:31	1
Bromoform	ND		1.0	0.30	ug/L			12/03/21 16:31	1
Bromomethane	ND		0.50	0.070	ug/L			12/03/21 16:31	1
Carbon disulfide	ND		1.0	0.060	ug/L			12/03/21 16:31	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			12/03/21 16:31	1
Chlorobenzene	ND		0.50	0.060	ug/L			12/03/21 16:31	1
Chloroethane	ND		0.50	0.070	ug/L			12/03/21 16:31	1
Chloroform	ND		0.50	0.090	ug/L			12/03/21 16:31	1
Chloromethane	ND		0.50	0.060	ug/L			12/03/21 16:31	1
cis-1,2-Dichloroethene	**0.18**	**J**	0.50	0.050	ug/L			12/03/21 16:31	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			12/03/21 16:31	1
Dibromochloromethane	ND		0.50	0.070	ug/L			12/03/21 16:31	1
Ethylbenzene	ND		0.50	0.060	ug/L			12/03/21 16:31	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			12/03/21 16:31	1
Methylene Chloride	ND		0.50	0.070	ug/L			12/03/21 16:31	1
Styrene	ND		0.50	0.050	ug/L			12/03/21 16:31	1
Tetrachloroethene	**0.93**		0.50	0.060	ug/L			12/03/21 16:31	1
Toluene	ND		0.50	0.070	ug/L			12/03/21 16:31	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			12/03/21 16:31	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			12/03/21 16:31	1
Trichloroethene	**0.24**	**J**	0.50	0.060	ug/L			12/03/21 16:31	1
Vinyl chloride	ND		0.50	0.10	ug/L			12/03/21 16:31	1
Xylenes, Total	ND		1.0	0.15	ug/L			12/03/21 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*12/03/21 16:31*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*12/03/21 16:31*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*12/03/21 16:31*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/03/21 16:31*	*1*

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

Date Collected: 11/23/21 09:40
Date Received: 11/23/21 18:34

Lab Sample ID: 410-64660-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/03/21 16:53	1
1,1,1-Trichloroethane	**6.2**		0.50	0.060	ug/L			12/03/21 16:53	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/03/21 16:53	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			12/03/21 16:53	1
1,1-Dichloroethane	**0.91**		0.50	0.070	ug/L			12/03/21 16:53	1
1,1-Dichloroethene	**0.56**		0.50	0.060	ug/L			12/03/21 16:53	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			12/03/21 16:53	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			12/03/21 16:53	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			12/03/21 16:53	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			12/03/21 16:53	1
2-Hexanone	ND		5.0	0.60	ug/L			12/03/21 16:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			12/03/21 16:53	1
Acetone	ND		5.0	0.90	ug/L			12/03/21 16:53	1
Benzene	ND		0.50	0.050	ug/L			12/03/21 16:53	1
Bromochloromethane	ND		0.50	0.050	ug/L			12/03/21 16:53	1
Bromodichloromethane	ND		0.50	0.050	ug/L			12/03/21 16:53	1
Bromoform	ND		1.0	0.30	ug/L			12/03/21 16:53	1
Bromomethane	ND		0.50	0.070	ug/L			12/03/21 16:53	1
Carbon disulfide	ND		1.0	0.060	ug/L			12/03/21 16:53	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			12/03/21 16:53	1
Chlorobenzene	ND		0.50	0.060	ug/L			12/03/21 16:53	1
Chloroethane	ND		0.50	0.070	ug/L			12/03/21 16:53	1
Chloroform	**0.31**	**J**	0.50	0.090	ug/L			12/03/21 16:53	1
Chloromethane	ND		0.50	0.060	ug/L			12/03/21 16:53	1
cis-1,2-Dichloroethene	**4.7**		0.50	0.050	ug/L			12/03/21 16:53	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			12/03/21 16:53	1
Dibromochloromethane	ND		0.50	0.070	ug/L			12/03/21 16:53	1
Ethylbenzene	ND		0.50	0.060	ug/L			12/03/21 16:53	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			12/03/21 16:53	1
Methylene Chloride	ND		0.50	0.070	ug/L			12/03/21 16:53	1
Styrene	ND		0.50	0.050	ug/L			12/03/21 16:53	1
Toluene	ND		0.50	0.070	ug/L			12/03/21 16:53	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			12/03/21 16:53	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			12/03/21 16:53	1
Trichloroethene	**9.4**		0.50	0.060	ug/L			12/03/21 16:53	1
Vinyl chloride	ND		0.50	0.10	ug/L			12/03/21 16:53	1
Xylenes, Total	ND		1.0	0.15	ug/L			12/03/21 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*12/03/21 16:53*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*12/03/21 16:53*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*12/03/21 16:53*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/03/21 16:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**61**		5.0	0.60	ug/L			12/04/21 17:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*		*12/04/21 17:24*	*10*

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

Lab Sample ID: 410-64660-8

Date Collected: 11/23/21 09:40
Matrix: Water
Date Received: 11/23/21 18:34

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*12/04/21 17:24*	*10*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*12/04/21 17:24*	*10*
Toluene-d8 (Surr)	*97*		*80 - 120*		*12/04/21 17:24*	*10*

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

Lab Sample ID: 410-64660-9

Date Collected: 11/23/21 10:25
Matrix: Water
Date Received: 11/23/21 18:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/03/21 17:14	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			12/03/21 17:14	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/03/21 17:14	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			12/03/21 17:14	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			12/03/21 17:14	1
1,1-Dichloroethene	**0.20**	**J**	0.50	0.060	ug/L			12/03/21 17:14	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			12/03/21 17:14	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			12/03/21 17:14	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			12/03/21 17:14	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			12/03/21 17:14	1
2-Hexanone	ND		5.0	0.60	ug/L			12/03/21 17:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			12/03/21 17:14	1
Acetone	ND		5.0	0.90	ug/L			12/03/21 17:14	1
Benzene	ND		0.50	0.050	ug/L			12/03/21 17:14	1
Bromochloromethane	ND		0.50	0.050	ug/L			12/03/21 17:14	1
Bromodichloromethane	ND		0.50	0.050	ug/L			12/03/21 17:14	1
Bromoform	ND		1.0	0.30	ug/L			12/03/21 17:14	1
Bromomethane	ND		0.50	0.070	ug/L			12/03/21 17:14	1
Carbon disulfide	ND		1.0	0.060	ug/L			12/03/21 17:14	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			12/03/21 17:14	1
Chlorobenzene	ND		0.50	0.060	ug/L			12/03/21 17:14	1
Chloroethane	ND		0.50	0.070	ug/L			12/03/21 17:14	1
Chloroform	**0.80**		0.50	0.090	ug/L			12/03/21 17:14	1
Chloromethane	ND		0.50	0.060	ug/L			12/03/21 17:14	1
cis-1,2-Dichloroethene	**0.093**	**J**	0.50	0.050	ug/L			12/03/21 17:14	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			12/03/21 17:14	1
Dibromochloromethane	ND		0.50	0.070	ug/L			12/03/21 17:14	1
Ethylbenzene	ND		0.50	0.060	ug/L			12/03/21 17:14	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			12/03/21 17:14	1
Methylene Chloride	ND		0.50	0.070	ug/L			12/03/21 17:14	1
Styrene	ND		0.50	0.050	ug/L			12/03/21 17:14	1
Tetrachloroethene	**4.1**		0.50	0.060	ug/L			12/03/21 17:14	1
Toluene	ND		0.50	0.070	ug/L			12/03/21 17:14	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			12/03/21 17:14	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			12/03/21 17:14	1
Trichloroethene	**0.20**	**J**	0.50	0.060	ug/L			12/03/21 17:14	1
Vinyl chloride	ND		0.50	0.10	ug/L			12/03/21 17:14	1
Xylenes, Total	ND		1.0	0.15	ug/L			12/03/21 17:14	1

Client Sample ID: HD-COD-SW-26-0/1-0
Lab Sample ID: 410-64660-9

Date Collected: 11/23/21 10:25
Matrix: Water
Date Received: 11/23/21 18:34

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		80 - 120		12/03/21 17:14	1
4-Bromofluorobenzene (Surr)	99		80 - 120		12/03/21 17:14	1
Dibromofluoromethane (Surr)	100		80 - 120		12/03/21 17:14	1
Toluene-d8 (Surr)	100		80 - 120		12/03/21 17:14	1

Client Sample ID: HD-COD-SW-27-0/1-0
Lab Sample ID: 410-64660-10

Date Collected: 11/23/21 10:55
Matrix: Water
Date Received: 11/23/21 18:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/03/21 17:35	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			12/03/21 17:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/03/21 17:35	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			12/03/21 17:35	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			12/03/21 17:35	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			12/03/21 17:35	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			12/03/21 17:35	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			12/03/21 17:35	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			12/03/21 17:35	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			12/03/21 17:35	1
2-Hexanone	ND		5.0	0.60	ug/L			12/03/21 17:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			12/03/21 17:35	1
Acetone	**1.2**	**J**	5.0	0.90	ug/L			12/03/21 17:35	1
Benzene	ND		0.50	0.050	ug/L			12/03/21 17:35	1
Bromochloromethane	ND		0.50	0.050	ug/L			12/03/21 17:35	1
Bromodichloromethane	ND		0.50	0.050	ug/L			12/03/21 17:35	1
Bromoform	ND		1.0	0.30	ug/L			12/03/21 17:35	1
Bromomethane	ND		0.50	0.070	ug/L			12/03/21 17:35	1
Carbon disulfide	**0.073**	**J**	1.0	0.060	ug/L			12/03/21 17:35	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			12/03/21 17:35	1
Chlorobenzene	ND		0.50	0.060	ug/L			12/03/21 17:35	1
Chloroethane	ND		0.50	0.070	ug/L			12/03/21 17:35	1
Chloroform	ND		0.50	0.090	ug/L			12/03/21 17:35	1
Chloromethane	ND		0.50	0.060	ug/L			12/03/21 17:35	1
cis-1,2-Dichloroethene	**0.11**	**J**	0.50	0.050	ug/L			12/03/21 17:35	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			12/03/21 17:35	1
Dibromochloromethane	ND		0.50	0.070	ug/L			12/03/21 17:35	1
Ethylbenzene	ND		0.50	0.060	ug/L			12/03/21 17:35	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			12/03/21 17:35	1
Methylene Chloride	ND		0.50	0.070	ug/L			12/03/21 17:35	1
Styrene	ND		0.50	0.050	ug/L			12/03/21 17:35	1
Tetrachloroethene	**0.098**	**J**	0.50	0.060	ug/L			12/03/21 17:35	1
Toluene	ND		0.50	0.070	ug/L			12/03/21 17:35	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			12/03/21 17:35	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			12/03/21 17:35	1
Trichloroethene	**0.15**	**J**	0.50	0.060	ug/L			12/03/21 17:35	1
Vinyl chloride	ND		0.50	0.10	ug/L			12/03/21 17:35	1
Xylenes, Total	ND		1.0	0.15	ug/L			12/03/21 17:35	1

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

Lab Sample ID: 410-64660-10

Date Collected: 11/23/21 10:55
Matrix: Water
Date Received: 11/23/21 18:34

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		80 - 120		12/03/21 17:35	1
4-Bromofluorobenzene (Surr)	100		80 - 120		12/03/21 17:35	1
Dibromofluoromethane (Surr)	101		80 - 120		12/03/21 17:35	1
Toluene-d8 (Surr)	101		80 - 120		12/03/21 17:35	1

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

Lab Sample ID: 410-64660-11

Date Collected: 11/23/21 12:05
Matrix: Water
Date Received: 11/23/21 18:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/03/21 17:56	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			12/03/21 17:56	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/03/21 17:56	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			12/03/21 17:56	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			12/03/21 17:56	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			12/03/21 17:56	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			12/03/21 17:56	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			12/03/21 17:56	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			12/03/21 17:56	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			12/03/21 17:56	1
2-Hexanone	ND		5.0	0.60	ug/L			12/03/21 17:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			12/03/21 17:56	1
Acetone	**1.5**	**J**	5.0	0.90	ug/L			12/03/21 17:56	1
Benzene	ND		0.50	0.050	ug/L			12/03/21 17:56	1
Bromochloromethane	ND		0.50	0.050	ug/L			12/03/21 17:56	1
Bromodichloromethane	ND		0.50	0.050	ug/L			12/03/21 17:56	1
Bromoform	ND		1.0	0.30	ug/L			12/03/21 17:56	1
Bromomethane	ND		0.50	0.070	ug/L			12/03/21 17:56	1
Carbon disulfide	ND		1.0	0.060	ug/L			12/03/21 17:56	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			12/03/21 17:56	1
Chlorobenzene	ND		0.50	0.060	ug/L			12/03/21 17:56	1
Chloroethane	ND		0.50	0.070	ug/L			12/03/21 17:56	1
Chloroform	**0.10**	**J**	0.50	0.090	ug/L			12/03/21 17:56	1
Chloromethane	ND		0.50	0.060	ug/L			12/03/21 17:56	1
cis-1,2-Dichloroethene	**0.11**	**J**	0.50	0.050	ug/L			12/03/21 17:56	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			12/03/21 17:56	1
Dibromochloromethane	ND		0.50	0.070	ug/L			12/03/21 17:56	1
Ethylbenzene	ND		0.50	0.060	ug/L			12/03/21 17:56	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			12/03/21 17:56	1
Methylene Chloride	ND		0.50	0.070	ug/L			12/03/21 17:56	1
Styrene	ND		0.50	0.050	ug/L			12/03/21 17:56	1
Tetrachloroethene	**0.19**	**J**	0.50	0.060	ug/L			12/03/21 17:56	1
Toluene	ND		0.50	0.070	ug/L			12/03/21 17:56	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			12/03/21 17:56	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			12/03/21 17:56	1
Trichloroethene	**0.13**	**J**	0.50	0.060	ug/L			12/03/21 17:56	1
Vinyl chloride	ND		0.50	0.10	ug/L			12/03/21 17:56	1
Xylenes, Total	ND		1.0	0.15	ug/L			12/03/21 17:56	1

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

Lab Sample ID: 410-64660-11

Date Collected: 11/23/21 12:05
Matrix: Water
Date Received: 11/23/21 18:34

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*12/03/21 17:56*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*12/03/21 17:56*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*12/03/21 17:56*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/03/21 17:56*	*1*

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

Lab Sample ID: 410-64660-12

Date Collected: 11/23/21 08:40
Matrix: Water
Date Received: 11/23/21 18:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/03/21 18:17	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			12/03/21 18:17	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/03/21 18:17	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			12/03/21 18:17	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			12/03/21 18:17	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			12/03/21 18:17	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			12/03/21 18:17	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			12/03/21 18:17	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			12/03/21 18:17	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			12/03/21 18:17	1
2-Hexanone	ND		5.0	0.60	ug/L			12/03/21 18:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			12/03/21 18:17	1
Acetone	**1.2**	**J**	5.0	0.90	ug/L			12/03/21 18:17	1
Benzene	ND		0.50	0.050	ug/L			12/03/21 18:17	1
Bromochloromethane	ND		0.50	0.050	ug/L			12/03/21 18:17	1
Bromodichloromethane	ND		0.50	0.050	ug/L			12/03/21 18:17	1
Bromoform	ND		1.0	0.30	ug/L			12/03/21 18:17	1
Bromomethane	ND		0.50	0.070	ug/L			12/03/21 18:17	1
Carbon disulfide	ND		1.0	0.060	ug/L			12/03/21 18:17	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			12/03/21 18:17	1
Chlorobenzene	ND		0.50	0.060	ug/L			12/03/21 18:17	1
Chloroethane	ND		0.50	0.070	ug/L			12/03/21 18:17	1
Chloroform	ND		0.50	0.090	ug/L			12/03/21 18:17	1
Chloromethane	**0.060**	**J**	0.50	0.060	ug/L			12/03/21 18:17	1
cis-1,2-Dichloroethene	**0.15**	**J**	0.50	0.050	ug/L			12/03/21 18:17	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			12/03/21 18:17	1
Dibromochloromethane	ND		0.50	0.070	ug/L			12/03/21 18:17	1
Ethylbenzene	ND		0.50	0.060	ug/L			12/03/21 18:17	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			12/03/21 18:17	1
Methylene Chloride	ND		0.50	0.070	ug/L			12/03/21 18:17	1
Styrene	ND		0.50	0.050	ug/L			12/03/21 18:17	1
Tetrachloroethene	**0.33**	**J**	0.50	0.060	ug/L			12/03/21 18:17	1
Toluene	ND		0.50	0.070	ug/L			12/03/21 18:17	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			12/03/21 18:17	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			12/03/21 18:17	1
Trichloroethene	**0.19**	**J**	0.50	0.060	ug/L			12/03/21 18:17	1
Vinyl chloride	ND		0.50	0.10	ug/L			12/03/21 18:17	1
Xylenes, Total	ND		1.0	0.15	ug/L			12/03/21 18:17	1

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

Lab Sample ID: 410-64660-12

Date Collected: 11/23/21 08:40
Matrix: Water
Date Received: 11/23/21 18:34

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*12/03/21 18:17*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*12/03/21 18:17*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*12/03/21 18:17*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/03/21 18:17*	*1*

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

Lab Sample ID: 410-64660-13

Date Collected: 11/23/21 12:00
Matrix: Water
Date Received: 11/23/21 18:34

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/03/21 18:38	1
1,1,1-Trichloroethane	**6.1**		0.50	0.060	ug/L			12/03/21 18:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/03/21 18:38	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			12/03/21 18:38	1
1,1-Dichloroethane	**0.90**		0.50	0.070	ug/L			12/03/21 18:38	1
1,1-Dichloroethene	**0.55**		0.50	0.060	ug/L			12/03/21 18:38	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			12/03/21 18:38	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			12/03/21 18:38	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			12/03/21 18:38	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			12/03/21 18:38	1
2-Hexanone	ND		5.0	0.60	ug/L			12/03/21 18:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			12/03/21 18:38	1
Acetone	ND		5.0	0.90	ug/L			12/03/21 18:38	1
Benzene	ND		0.50	0.050	ug/L			12/03/21 18:38	1
Bromochloromethane	ND		0.50	0.050	ug/L			12/03/21 18:38	1
Bromodichloromethane	ND		0.50	0.050	ug/L			12/03/21 18:38	1
Bromoform	ND		1.0	0.30	ug/L			12/03/21 18:38	1
Bromomethane	ND		0.50	0.070	ug/L			12/03/21 18:38	1
Carbon disulfide	ND		1.0	0.060	ug/L			12/03/21 18:38	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			12/03/21 18:38	1
Chlorobenzene	ND		0.50	0.060	ug/L			12/03/21 18:38	1
Chloroethane	ND		0.50	0.070	ug/L			12/03/21 18:38	1
Chloroform	**0.30**	**J**	0.50	0.090	ug/L			12/03/21 18:38	1
Chloromethane	ND		0.50	0.060	ug/L			12/03/21 18:38	1
cis-1,2-Dichloroethene	**4.6**		0.50	0.050	ug/L			12/03/21 18:38	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			12/03/21 18:38	1
Dibromochloromethane	ND		0.50	0.070	ug/L			12/03/21 18:38	1
Ethylbenzene	ND		0.50	0.060	ug/L			12/03/21 18:38	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			12/03/21 18:38	1
Methylene Chloride	ND		0.50	0.070	ug/L			12/03/21 18:38	1
Styrene	ND		0.50	0.050	ug/L			12/03/21 18:38	1
Toluene	ND		0.50	0.070	ug/L			12/03/21 18:38	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			12/03/21 18:38	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			12/03/21 18:38	1
Trichloroethene	**9.2**		0.50	0.060	ug/L			12/03/21 18:38	1
Vinyl chloride	ND		0.50	0.10	ug/L			12/03/21 18:38	1
Xylenes, Total	ND		1.0	0.15	ug/L			12/03/21 18:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*12/03/21 18:38*	*1*

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

Date Collected: 11/23/21 12:00
Date Received: 11/23/21 18:34

Lab Sample ID: 410-64660-13

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*12/03/21 18:38*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*12/03/21 18:38*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/03/21 18:38*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**60**		5.0	0.60	ug/L			12/04/21 17:46	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*80 - 120*		*12/04/21 17:46*	*10*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*12/04/21 17:46*	*10*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*12/04/21 17:46*	*10*
Toluene-d8 (Surr)	*97*		*80 - 120*		*12/04/21 17:46*	*10*

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

Date Collected: 11/23/21 00:00
Date Received: 11/23/21 18:34

Lab Sample ID: 410-64660-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/03/21 13:20	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			12/03/21 13:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/03/21 13:20	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			12/03/21 13:20	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			12/03/21 13:20	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			12/03/21 13:20	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			12/03/21 13:20	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			12/03/21 13:20	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			12/03/21 13:20	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			12/03/21 13:20	1
2-Hexanone	ND		5.0	0.60	ug/L			12/03/21 13:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			12/03/21 13:20	1
Acetone	ND		5.0	0.90	ug/L			12/03/21 13:20	1
Benzene	ND		0.50	0.050	ug/L			12/03/21 13:20	1
Bromochloromethane	ND		0.50	0.050	ug/L			12/03/21 13:20	1
Bromodichloromethane	ND		0.50	0.050	ug/L			12/03/21 13:20	1
Bromoform	ND		1.0	0.30	ug/L			12/03/21 13:20	1
Bromomethane	ND		0.50	0.070	ug/L			12/03/21 13:20	1
Carbon disulfide	ND		1.0	0.060	ug/L			12/03/21 13:20	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			12/03/21 13:20	1
Chlorobenzene	ND		0.50	0.060	ug/L			12/03/21 13:20	1
Chloroethane	ND		0.50	0.070	ug/L			12/03/21 13:20	1
Chloroform	ND		0.50	0.090	ug/L			12/03/21 13:20	1
Chloromethane	ND		0.50	0.060	ug/L			12/03/21 13:20	1
cis-1,2-Dichloroethene	ND		0.50	0.050	ug/L			12/03/21 13:20	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			12/03/21 13:20	1
Dibromochloromethane	ND		0.50	0.070	ug/L			12/03/21 13:20	1
Ethylbenzene	ND		0.50	0.060	ug/L			12/03/21 13:20	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			12/03/21 13:20	1
Methylene Chloride	ND		0.50	0.070	ug/L			12/03/21 13:20	1

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

Job ID: 410-64660-1

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

Date Collected: 11/23/21 00:00
Date Received: 11/23/21 18:34

Lab Sample ID: 410-64660-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		0.50	0.050	ug/L			12/03/21 13:20	1
Tetrachloroethene	ND		0.50	0.060	ug/L			12/03/21 13:20	1
Toluene	ND		0.50	0.070	ug/L			12/03/21 13:20	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			12/03/21 13:20	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			12/03/21 13:20	1
Trichloroethene	ND		0.50	0.060	ug/L			12/03/21 13:20	1
Vinyl chloride	ND		0.50	0.10	ug/L			12/03/21 13:20	1
Xylenes, Total	ND		1.0	0.15	ug/L			12/03/21 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*12/03/21 13:20*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*12/03/21 13:20*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*12/03/21 13:20*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/03/21 13:20*	*1*

Default Detection Limits

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

Job ID: 410-64660-1

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	0.060	ug/L
1,1,2,2-Tetrachloroethane	0.50	0.070	ug/L
1,1,2-Trichloroethane	0.50	0.060	ug/L
1,1-Dichloroethane	0.50	0.070	ug/L
1,1-Dichloroethene	0.50	0.060	ug/L
1,2-Dibromoethane (EDB)	0.50	0.060	ug/L
1,2-Dichloroethane	0.50	0.050	ug/L
1,2-Dichloropropane	0.50	0.060	ug/L
2-Butanone (MEK)	5.0	0.60	ug/L
2-Hexanone	5.0	0.60	ug/L
4-Methyl-2-pentanone (MIBK)	5.0	0.70	ug/L
Acetone	5.0	0.90	ug/L
Benzene	0.50	0.050	ug/L
Bromochloromethane	0.50	0.050	ug/L
Bromodichloromethane	0.50	0.050	ug/L
Bromoform	1.0	0.30	ug/L
Bromomethane	0.50	0.070	ug/L
Carbon disulfide	1.0	0.060	ug/L
Carbon tetrachloride	0.50	0.070	ug/L
Chlorobenzene	0.50	0.060	ug/L
Chloroethane	0.50	0.070	ug/L
Chloroform	0.50	0.090	ug/L
Chloromethane	0.50	0.060	ug/L
cis-1,2-Dichloroethene	0.50	0.050	ug/L
cis-1,3-Dichloropropene	0.50	0.050	ug/L
Dibromochloromethane	0.50	0.070	ug/L
Ethylbenzene	0.50	0.060	ug/L
Methyl tert-butyl ether	0.50	0.050	ug/L
Methylene Chloride	0.50	0.070	ug/L
Styrene	0.50	0.050	ug/L
Tetrachloroethene	0.50	0.060	ug/L
Toluene	0.50	0.070	ug/L
trans-1,2-Dichloroethene	0.50	0.060	ug/L
trans-1,3-Dichloropropene	0.50	0.060	ug/L
Trichloroethene	0.50	0.060	ug/L
Vinyl chloride	0.50	0.10	ug/L
Xylenes, Total	1.0	0.15	ug/L

Surrogate Summary

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

Job ID: 410-64660-1

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)
410-64660-1	HD-COD-SW-6-0/1-0	102	100	101	101
410-64660-2	HD-COD-SW-7-0/1-0	103	100	102	101
410-64660-3	HD-COD-SW-8-0/1-0	101	101	101	101
410-64660-4	HD-COD-SW-9-0/1-0	105	100	101	101
410-64660-5	HD-COD-SW-13-0/1-0	101	99	100	101
410-64660-6	HD-COD-SW-15-0/1-0	101	101	101	101
410-64660-6 MS	HD-COD-SW-15-0/1-0 MS	101	100	101	101
410-64660-6 MSD	HD-COD-SW-15-0/1-0 MSD	100	100	100	102
410-64660-7	HD-COD-SW-16-0/1-0	100	99	100	101
410-64660-8	HD-COD-SW-17-0/1-0	102	99	101	101
410-64660-8 - DL	HD-COD-SW-17-0/1-0	95	99	103	97
410-64660-9	HD-COD-SW-26-0/1-0	103	99	100	100
410-64660-10	HD-COD-SW-27-0/1-0	102	100	101	101
410-64660-11	HD-COD-SW-28-0/1-0	104	99	101	100
410-64660-12	HD-COD-SW-29-0/1-0	104	99	102	100
410-64660-13	HD-QC1-0/1-1	103	100	101	100
410-64660-13 - DL	HD-QC1-0/1-1	99	99	101	97
410-64660-14	HD-QC1-0/1-2	104	100	101	101
LCS 410-200572/4	Lab Control Sample	101	101	100	102
LCS 410-201082/5	Lab Control Sample	103	99	103	100
LCS 410-201490/4	Lab Control Sample	96	103	100	99
LCSD 410-200572/5	Lab Control Sample Dup	101	100	101	102
LCSD 410-201082/6	Lab Control Sample Dup	102	100	100	101
LCSD 410-201490/5	Lab Control Sample Dup	95	103	101	100
MB 410-200572/8	Method Blank	100	100	100	101
MB 410-201082/11	Method Blank	104	100	102	101
MB 410-201490/8	Method Blank	97	99	101	98

Surrogate Legend

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

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

Lab Sample ID: MB 410-200572/8
Matrix: Water
Analysis Batch: 200572

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			12/02/21 12:30	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			12/02/21 12:30	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/02/21 12:30	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			12/02/21 12:30	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			12/02/21 12:30	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			12/02/21 12:30	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			12/02/21 12:30	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			12/02/21 12:30	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			12/02/21 12:30	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			12/02/21 12:30	1
2-Hexanone	ND		5.0	0.60	ug/L			12/02/21 12:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			12/02/21 12:30	1
Acetone	ND		5.0	0.90	ug/L			12/02/21 12:30	1
Benzene	ND		0.50	0.050	ug/L			12/02/21 12:30	1
Bromochloromethane	ND		0.50	0.050	ug/L			12/02/21 12:30	1
Bromodichloromethane	ND		0.50	0.050	ug/L			12/02/21 12:30	1
Bromoform	ND		1.0	0.30	ug/L			12/02/21 12:30	1
Bromomethane	ND		0.50	0.070	ug/L			12/02/21 12:30	1
Carbon disulfide	ND		1.0	0.060	ug/L			12/02/21 12:30	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			12/02/21 12:30	1
Chlorobenzene	ND		0.50	0.060	ug/L			12/02/21 12:30	1
Chloroethane	ND		0.50	0.070	ug/L			12/02/21 12:30	1
Chloroform	ND		0.50	0.090	ug/L			12/02/21 12:30	1
Chloromethane	ND		0.50	0.060	ug/L			12/02/21 12:30	1
cis-1,2-Dichloroethene	ND		0.50	0.050	ug/L			12/02/21 12:30	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			12/02/21 12:30	1
Dibromochloromethane	ND		0.50	0.070	ug/L			12/02/21 12:30	1
Ethylbenzene	ND		0.50	0.060	ug/L			12/02/21 12:30	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			12/02/21 12:30	1
Methylene Chloride	ND		0.50	0.070	ug/L			12/02/21 12:30	1
Styrene	ND		0.50	0.050	ug/L			12/02/21 12:30	1
Tetrachloroethene	ND		0.50	0.060	ug/L			12/02/21 12:30	1
Toluene	ND		0.50	0.070	ug/L			12/02/21 12:30	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			12/02/21 12:30	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			12/02/21 12:30	1
Trichloroethene	ND		0.50	0.060	ug/L			12/02/21 12:30	1
Vinyl chloride	ND		0.50	0.10	ug/L			12/02/21 12:30	1
Xylenes, Total	ND		1.0	0.15	ug/L			12/02/21 12:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*12/02/21 12:30*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*12/02/21 12:30*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*12/02/21 12:30*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/02/21 12:30*	*1*

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

Lab Sample ID: LCS 410-200572/4
Matrix: Water
Analysis Batch: 200572

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	5.55		ug/L		111	71 - 134
1,1,1-Trichloroethane	5.00	5.59		ug/L		112	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.62		ug/L		112	75 - 123
1,1,2-Trichloroethane	5.00	5.80		ug/L		116	80 - 120
1,1-Dichloroethane	5.00	5.45		ug/L		109	74 - 120
1,1-Dichloroethene	5.00	6.00		ug/L		120	80 - 131
1,2-Dibromoethane (EDB)	5.00	5.51		ug/L		110	80 - 120
1,2-Dichloroethane	5.00	5.09		ug/L		102	69 - 122
1,2-Dichloropropane	5.00	5.71		ug/L		114	80 - 120
2-Butanone (MEK)	62.5	80.4		ug/L		129	59 - 141
2-Hexanone	62.5	90.7	*+	ug/L		145	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	87.4		ug/L		140	55 - 140
Acetone	62.5	60.7		ug/L		97	60 - 146
Benzene	5.00	5.69		ug/L		114	80 - 120
Bromochloromethane	5.00	5.71		ug/L		114	80 - 120
Bromodichloromethane	5.00	5.69		ug/L		114	73 - 124
Bromoform	5.00	5.45		ug/L		109	49 - 144
Bromomethane	5.00	4.88		ug/L		98	60 - 136
Carbon disulfide	5.00	5.72		ug/L		114	67 - 130
Carbon tetrachloride	5.00	5.64		ug/L		113	64 - 141
Chlorobenzene	5.00	5.54		ug/L		111	80 - 120
Chloroethane	5.00	4.98		ug/L		100	63 - 120
Chloroform	5.00	5.57		ug/L		111	80 - 120
Chloromethane	5.00	4.95		ug/L		99	56 - 124
cis-1,2-Dichloroethene	5.00	5.78		ug/L		116	80 - 122
cis-1,3-Dichloropropene	5.00	5.45		ug/L		109	67 - 121
Dibromochloromethane	5.00	5.46		ug/L		109	64 - 138
Ethylbenzene	5.00	5.62		ug/L		112	80 - 120
Methyl tert-butyl ether	5.00	5.34		ug/L		107	69 - 120
Methylene Chloride	5.00	5.67		ug/L		113	80 - 120
Styrene	5.00	5.64		ug/L		113	80 - 120
Tetrachloroethene	5.00	5.66		ug/L		113	80 - 120
Toluene	5.00	5.54		ug/L		111	80 - 120
trans-1,2-Dichloroethene	5.00	5.62		ug/L		112	80 - 122
trans-1,3-Dichloropropene	5.00	5.51		ug/L		110	61 - 129
Trichloroethene	5.00	5.63		ug/L		113	80 - 120
Vinyl chloride	5.00	4.91		ug/L		98	60 - 125
Xylenes, Total	15.0	16.8		ug/L		112	80 - 120

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

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

Lab Sample ID: LCSD 410-200572/5
Matrix: Water
Analysis Batch: 200572

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			5.00	5.52		ug/L		110	71 - 134	0	30
1,1,1-Trichloroethane			5.00	5.51		ug/L		110	78 - 126	1	30
1,1,2,2-Tetrachloroethane			5.00	5.73		ug/L		115	75 - 123	2	30
1,1,2-Trichloroethane			5.00	5.64		ug/L		113	80 - 120	3	30
1,1-Dichloroethane			5.00	5.40		ug/L		108	74 - 120	1	30
1,1-Dichloroethene			5.00	5.97		ug/L		119	80 - 131	1	30
1,2-Dibromoethane (EDB)			5.00	5.52		ug/L		110	80 - 120	0	30
1,2-Dichloroethane			5.00	5.23		ug/L		105	69 - 122	3	30
1,2-Dichloropropane			5.00	5.72		ug/L		114	80 - 120	0	30
2-Butanone (MEK)			62.5	76.2		ug/L		122	59 - 141	5	30
2-Hexanone			62.5	89.7	*+	ug/L		143	52 - 140	1	30
4-Methyl-2-pentanone (MIBK)			62.5	85.8		ug/L		137	55 - 140	2	30
Acetone			62.5	57.7		ug/L		92	60 - 146	5	30
Benzene			5.00	5.64		ug/L		113	80 - 120	1	30
Bromochloromethane			5.00	5.65		ug/L		113	80 - 120	1	30
Bromodichloromethane			5.00	5.63		ug/L		113	73 - 124	1	30
Bromoform			5.00	5.40		ug/L		108	49 - 144	1	30
Bromomethane			5.00	4.79		ug/L		96	60 - 136	2	30
Carbon disulfide			5.00	5.61		ug/L		112	67 - 130	2	30
Carbon tetrachloride			5.00	5.55		ug/L		111	64 - 141	2	30
Chlorobenzene			5.00	5.51		ug/L		110	80 - 120	1	30
Chloroethane			5.00	4.87		ug/L		97	63 - 120	2	30
Chloroform			5.00	5.52		ug/L		110	80 - 120	1	30
Chloromethane			5.00	4.83		ug/L		97	56 - 124	2	30
cis-1,2-Dichloroethene			5.00	5.80		ug/L		116	80 - 122	0	30
cis-1,3-Dichloropropene			5.00	5.45		ug/L		109	67 - 121	0	30
Dibromochloromethane			5.00	5.36		ug/L		107	64 - 138	2	30
Ethylbenzene			5.00	5.54		ug/L		111	80 - 120	2	30
Methyl tert-butyl ether			5.00	5.38		ug/L		108	69 - 120	1	30
Methylene Chloride			5.00	5.62		ug/L		112	80 - 120	1	30
Styrene			5.00	5.52		ug/L		110	80 - 120	2	30
Tetrachloroethene			5.00	5.58		ug/L		112	80 - 120	1	30
Toluene			5.00	5.45		ug/L		109	80 - 120	2	30
trans-1,2-Dichloroethene			5.00	5.60		ug/L		112	80 - 122	0	30
trans-1,3-Dichloropropene			5.00	5.51		ug/L		110	61 - 129	0	30
Trichloroethene			5.00	5.58		ug/L		112	80 - 120	1	30
Vinyl chloride			5.00	5.01		ug/L		100	60 - 125	2	30
Xylenes, Total			15.0	16.5		ug/L		110	80 - 120	1	30

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

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

Lab Sample ID: 410-64660-6 MS
Matrix: Water
Analysis Batch: 200572

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	5.17		ug/L		103	71 - 134
1,1,1-Trichloroethane	0.19	J	5.00	5.92		ug/L		115	78 - 126
1,1,2,2-Tetrachloroethane	ND		5.00	5.09		ug/L		102	75 - 123
1,1,2-Trichloroethane	ND		5.00	5.33		ug/L		107	80 - 120
1,1-Dichloroethane	0.11	J	5.00	5.67		ug/L		111	74 - 120
1,1-Dichloroethene	0.13	J	5.00	6.53		ug/L		128	80 - 131
1,2-Dibromoethane (EDB)	ND		5.00	5.08		ug/L		101	80 - 120
1,2-Dichloroethane	ND		5.00	5.10		ug/L		102	69 - 122
1,2-Dichloropropane	ND		5.00	5.70		ug/L		114	80 - 120
2-Butanone (MEK)	ND	^c	62.6	65.6		ug/L		105	59 - 141
2-Hexanone	ND	^c *+	62.6	69.7		ug/L		111	52 - 140
4-Methyl-2-pentanone (MIBK)	ND	^c	62.6	66.5		ug/L		106	55 - 140
Acetone	ND		62.6	54.1		ug/L		86	60 - 146
Benzene	ND		5.00	5.74		ug/L		115	80 - 120
Bromochloromethane	ND		5.00	5.77		ug/L		115	80 - 120
Bromodichloromethane	ND		5.00	5.50		ug/L		110	73 - 124
Bromoform	ND		5.00	4.84		ug/L		97	49 - 144
Bromomethane	ND		5.00	4.79		ug/L		96	60 - 136
Carbon disulfide	ND		5.00	6.00		ug/L		120	67 - 130
Carbon tetrachloride	ND		5.00	5.86		ug/L		117	64 - 141
Chlorobenzene	ND		5.00	5.38		ug/L		107	80 - 120
Chloroethane	ND		5.00	4.88		ug/L		98	63 - 120
Chloroform	0.34	J	5.00	5.92		ug/L		112	80 - 120
Chloromethane	ND		5.00	5.01		ug/L		100	80 - 120
cis-1,2-Dichloroethene	0.93		5.00	6.78		ug/L		117	80 - 122
cis-1,3-Dichloropropene	ND		5.00	5.30		ug/L		106	67 - 121
Dibromochloromethane	ND		5.00	5.02		ug/L		100	64 - 138
Ethylbenzene	ND		5.00	5.43		ug/L		108	80 - 120
Methyl tert-butyl ether	ND		5.00	5.18		ug/L		104	69 - 120
Methylene Chloride	ND		5.00	5.69		ug/L		114	80 - 120
Styrene	ND		5.00	5.29		ug/L		106	80 - 120
Tetrachloroethene	4.8		5.00	10.7		ug/L		117	80 - 120
Toluene	ND		5.00	5.44		ug/L		109	80 - 120
trans-1,2-Dichloroethene	ND		5.00	5.87		ug/L		117	80 - 122
trans-1,3-Dichloropropene	ND		5.00	5.10		ug/L		102	61 - 129
Trichloroethene	1.1		5.00	6.83		ug/L		115	80 - 120
Vinyl chloride	ND		5.00	5.02		ug/L		100	60 - 125
Xylenes, Total	ND		15.0	16.2		ug/L		108	80 - 120

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

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

Lab Sample ID: 410-64660-6 MSD
Matrix: Water
Analysis Batch: 200572

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	5.30		ug/L		106	71 - 134	2	30
1,1,1-Trichloroethane	0.19	J	5.00	5.92		ug/L		115	78 - 126	0	30
1,1,2,2-Tetrachloroethane	ND		5.00	5.08		ug/L		102	75 - 123	0	30
1,1,2-Trichloroethane	ND		5.00	5.32		ug/L		106	80 - 120	0	30
1,1-Dichloroethane	0.11	J	5.00	5.63		ug/L		110	74 - 120	1	30
1,1-Dichloroethene	0.13	J	5.00	6.47		ug/L		127	80 - 131	1	30
1,2-Dibromoethane (EDB)	ND		5.00	5.11		ug/L		102	80 - 120	1	30
1,2-Dichloroethane	ND		5.00	4.93		ug/L		98	69 - 122	4	30
1,2-Dichloropropane	ND		5.00	5.68		ug/L		113	80 - 120	0	30
2-Butanone (MEK)	ND	^c	62.6	66.2		ug/L		106	59 - 141	1	30
2-Hexanone	ND	^c *+	62.6	77.7		ug/L		124	52 - 140	11	30
4-Methyl-2-pentanone (MIBK)	ND	^c	62.6	74.2		ug/L		119	55 - 140	11	30
Acetone	ND		62.6	50.7		ug/L		81	60 - 146	6	30
Benzene	ND		5.00	5.74		ug/L		115	80 - 120	0	30
Bromochloromethane	ND		5.00	5.53		ug/L		111	80 - 120	4	30
Bromodichloromethane	ND		5.00	5.47		ug/L		109	73 - 124	1	30
Bromoform	ND		5.00	4.79		ug/L		96	49 - 144	1	30
Bromomethane	ND		5.00	4.78		ug/L		96	60 - 136	0	30
Carbon disulfide	ND		5.00	5.96		ug/L		119	67 - 130	1	30
Carbon tetrachloride	ND		5.00	5.88		ug/L		118	64 - 141	0	30
Chlorobenzene	ND		5.00	5.39		ug/L		108	80 - 120	0	30
Chloroethane	ND		5.00	4.86		ug/L		97	63 - 120	0	30
Chloroform	0.34	J	5.00	5.88		ug/L		111	80 - 120	1	30
Chloromethane	ND		5.00	4.93		ug/L		99	80 - 120	1	30
cis-1,2-Dichloroethene	0.93		5.00	6.73		ug/L		116	80 - 122	1	30
cis-1,3-Dichloropropene	ND		5.00	5.33		ug/L		107	67 - 121	1	30
Dibromochloromethane	ND		5.00	5.04		ug/L		101	64 - 138	0	30
Ethylbenzene	ND		5.00	5.54		ug/L		111	80 - 120	2	30
Methyl tert-butyl ether	ND		5.00	5.09		ug/L		102	69 - 120	2	30
Methylene Chloride	ND		5.00	5.60		ug/L		112	80 - 120	2	30
Styrene	ND		5.00	5.36		ug/L		107	80 - 120	1	30
Tetrachloroethene	4.8		5.00	10.7		ug/L		117	80 - 120	0	30
Toluene	ND		5.00	5.54		ug/L		111	80 - 120	2	30
trans-1,2-Dichloroethene	ND		5.00	5.81		ug/L		116	80 - 122	1	30
trans-1,3-Dichloropropene	ND		5.00	5.19		ug/L		104	61 - 129	2	30
Trichloroethene	1.1		5.00	6.87		ug/L		116	80 - 120	1	30
Vinyl chloride	ND		5.00	5.11		ug/L		102	60 - 125	2	30
Xylenes, Total	ND		15.0	16.5		ug/L		110	80 - 120	2	30

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

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

Lab Sample ID: MB 410-201082/11
Matrix: Water
Analysis Batch: 201082

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			12/03/21 12:38	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			12/03/21 12:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/03/21 12:38	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			12/03/21 12:38	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			12/03/21 12:38	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			12/03/21 12:38	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			12/03/21 12:38	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			12/03/21 12:38	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			12/03/21 12:38	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			12/03/21 12:38	1
2-Hexanone	ND		5.0	0.60	ug/L			12/03/21 12:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			12/03/21 12:38	1
Acetone	ND		5.0	0.90	ug/L			12/03/21 12:38	1
Benzene	ND		0.50	0.050	ug/L			12/03/21 12:38	1
Bromochloromethane	ND		0.50	0.050	ug/L			12/03/21 12:38	1
Bromodichloromethane	ND		0.50	0.050	ug/L			12/03/21 12:38	1
Bromoform	ND		1.0	0.30	ug/L			12/03/21 12:38	1
Bromomethane	ND		0.50	0.070	ug/L			12/03/21 12:38	1
Carbon disulfide	ND		1.0	0.060	ug/L			12/03/21 12:38	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			12/03/21 12:38	1
Chlorobenzene	ND		0.50	0.060	ug/L			12/03/21 12:38	1
Chloroethane	ND		0.50	0.070	ug/L			12/03/21 12:38	1
Chloroform	ND		0.50	0.090	ug/L			12/03/21 12:38	1
Chloromethane	ND		0.50	0.060	ug/L			12/03/21 12:38	1
cis-1,2-Dichloroethene	ND		0.50	0.050	ug/L			12/03/21 12:38	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			12/03/21 12:38	1
Dibromochloromethane	ND		0.50	0.070	ug/L			12/03/21 12:38	1
Ethylbenzene	ND		0.50	0.060	ug/L			12/03/21 12:38	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			12/03/21 12:38	1
Methylene Chloride	ND		0.50	0.070	ug/L			12/03/21 12:38	1
Styrene	ND		0.50	0.050	ug/L			12/03/21 12:38	1
Tetrachloroethene	ND		0.50	0.060	ug/L			12/03/21 12:38	1
Toluene	ND		0.50	0.070	ug/L			12/03/21 12:38	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			12/03/21 12:38	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			12/03/21 12:38	1
Trichloroethene	ND		0.50	0.060	ug/L			12/03/21 12:38	1
Vinyl chloride	ND		0.50	0.10	ug/L			12/03/21 12:38	1
Xylenes, Total	ND		1.0	0.15	ug/L			12/03/21 12:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*12/03/21 12:38*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*12/03/21 12:38*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*12/03/21 12:38*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/03/21 12:38*	*1*

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

Lab Sample ID: LCS 410-201082/5
Matrix: Water
Analysis Batch: 201082

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	5.37		ug/L		107	71 - 134
1,1,1-Trichloroethane	5.00	5.57		ug/L		111	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.57		ug/L		111	75 - 123
1,1,2-Trichloroethane	5.00	5.58		ug/L		112	80 - 120
1,1-Dichloroethane	5.00	5.50		ug/L		110	74 - 120
1,1-Dichloroethene	5.00	5.99		ug/L		120	80 - 131
1,2-Dibromoethane (EDB)	5.00	5.47		ug/L		109	80 - 120
1,2-Dichloroethane	5.00	5.27		ug/L		105	69 - 122
1,2-Dichloropropane	5.00	5.80		ug/L		116	80 - 120
2-Butanone (MEK)	62.5	64.2		ug/L		103	59 - 141
2-Hexanone	62.5	66.1		ug/L		106	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	63.6		ug/L		102	55 - 140
Acetone	62.5	56.3		ug/L		90	60 - 146
Benzene	5.00	5.73		ug/L		115	80 - 120
Bromochloromethane	5.00	5.91		ug/L		118	80 - 120
Bromodichloromethane	5.00	5.75		ug/L		115	73 - 124
Bromoform	5.00	5.41		ug/L		108	49 - 144
Bromomethane	5.00	4.62		ug/L		92	60 - 136
Carbon disulfide	5.00	5.65		ug/L		113	67 - 130
Carbon tetrachloride	5.00	5.53		ug/L		111	64 - 141
Chlorobenzene	5.00	5.38		ug/L		108	80 - 120
Chloroethane	5.00	4.71		ug/L		94	63 - 120
Chloroform	5.00	5.62		ug/L		112	80 - 120
Chloromethane	5.00	4.72		ug/L		94	56 - 124
cis-1,2-Dichloroethene	5.00	5.85		ug/L		117	80 - 122
cis-1,3-Dichloropropene	5.00	5.55		ug/L		111	67 - 121
Dibromochloromethane	5.00	5.37		ug/L		107	64 - 138
Ethylbenzene	5.00	5.43		ug/L		109	80 - 120
Methyl tert-butyl ether	5.00	5.55		ug/L		111	69 - 120
Methylene Chloride	5.00	5.75		ug/L		115	80 - 120
Styrene	5.00	5.39		ug/L		108	80 - 120
Tetrachloroethene	5.00	5.47		ug/L		109	80 - 120
Toluene	5.00	5.44		ug/L		109	80 - 120
trans-1,2-Dichloroethene	5.00	5.64		ug/L		113	80 - 122
trans-1,3-Dichloropropene	5.00	5.45		ug/L		109	61 - 129
Trichloroethene	5.00	5.63		ug/L		113	80 - 120
Vinyl chloride	5.00	4.66		ug/L		93	60 - 125
Xylenes, Total	15.0	16.2		ug/L		108	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

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

Lab Sample ID: LCSD 410-201082/6
Matrix: Water
Analysis Batch: 201082

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			5.00	5.25		ug/L		105	71 - 134	2	30
1,1,1-Trichloroethane			5.00	5.46		ug/L		109	78 - 126	2	30
1,1,2,2-Tetrachloroethane			5.00	5.50		ug/L		110	75 - 123	1	30
1,1,2-Trichloroethane			5.00	5.46		ug/L		109	80 - 120	2	30
1,1-Dichloroethane			5.00	5.42		ug/L		108	74 - 120	1	30
1,1-Dichloroethene			5.00	5.84		ug/L		117	80 - 131	2	30
1,2-Dibromoethane (EDB)			5.00	5.32		ug/L		106	80 - 120	3	30
1,2-Dichloroethane			5.00	5.13		ug/L		103	69 - 122	3	30
1,2-Dichloropropane			5.00	5.64		ug/L		113	80 - 120	3	30
2-Butanone (MEK)			62.5	66.3		ug/L		106	59 - 141	3	30
2-Hexanone			62.5	68.7		ug/L		110	52 - 140	4	30
4-Methyl-2-pentanone (MIBK)			62.5	66.0		ug/L		106	55 - 140	4	30
Acetone			62.5	56.3		ug/L		90	60 - 146	0	30
Benzene			5.00	5.65		ug/L		113	80 - 120	1	30
Bromochloromethane			5.00	5.69		ug/L		114	80 - 120	4	30
Bromodichloromethane			5.00	5.54		ug/L		111	73 - 124	4	30
Bromoform			5.00	5.06		ug/L		101	49 - 144	7	30
Bromomethane			5.00	4.51		ug/L		90	60 - 136	2	30
Carbon disulfide			5.00	5.54		ug/L		111	67 - 130	2	30
Carbon tetrachloride			5.00	5.49		ug/L		110	64 - 141	1	30
Chlorobenzene			5.00	5.37		ug/L		107	80 - 120	0	30
Chloroethane			5.00	4.70		ug/L		94	63 - 120	0	30
Chloroform			5.00	5.50		ug/L		110	80 - 120	2	30
Chloromethane			5.00	4.61		ug/L		92	56 - 124	2	30
cis-1,2-Dichloroethene			5.00	5.71		ug/L		114	80 - 122	2	30
cis-1,3-Dichloropropene			5.00	5.38		ug/L		108	67 - 121	3	30
Dibromochloromethane			5.00	5.20		ug/L		104	64 - 138	3	30
Ethylbenzene			5.00	5.40		ug/L		108	80 - 120	1	30
Methyl tert-butyl ether			5.00	5.30		ug/L		106	69 - 120	4	30
Methylene Chloride			5.00	5.64		ug/L		113	80 - 120	2	30
Styrene			5.00	5.36		ug/L		107	80 - 120	0	30
Tetrachloroethene			5.00	5.50		ug/L		110	80 - 120	1	30
Toluene			5.00	5.45		ug/L		109	80 - 120	0	30
trans-1,2-Dichloroethene			5.00	5.65		ug/L		113	80 - 122	0	30
trans-1,3-Dichloropropene			5.00	5.31		ug/L		106	61 - 129	3	30
Trichloroethene			5.00	5.57		ug/L		111	80 - 120	1	30
Vinyl chloride			5.00	4.64		ug/L		93	60 - 125	0	30
Xylenes, Total			15.0	16.1		ug/L		107	80 - 120	1	30

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

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

Lab Sample ID: MB 410-201490/8
Matrix: Water
Analysis Batch: 201490

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			12/04/21 11:51	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			12/04/21 11:51	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			12/04/21 11:51	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			12/04/21 11:51	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			12/04/21 11:51	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			12/04/21 11:51	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			12/04/21 11:51	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			12/04/21 11:51	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			12/04/21 11:51	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			12/04/21 11:51	1
2-Hexanone	ND		5.0	0.60	ug/L			12/04/21 11:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			12/04/21 11:51	1
Acetone	ND		5.0	0.90	ug/L			12/04/21 11:51	1
Benzene	ND		0.50	0.050	ug/L			12/04/21 11:51	1
Bromochloromethane	ND		0.50	0.050	ug/L			12/04/21 11:51	1
Bromodichloromethane	ND		0.50	0.050	ug/L			12/04/21 11:51	1
Bromoform	ND		1.0	0.30	ug/L			12/04/21 11:51	1
Bromomethane	ND		0.50	0.070	ug/L			12/04/21 11:51	1
Carbon disulfide	ND		1.0	0.060	ug/L			12/04/21 11:51	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			12/04/21 11:51	1
Chlorobenzene	ND		0.50	0.060	ug/L			12/04/21 11:51	1
Chloroethane	ND		0.50	0.070	ug/L			12/04/21 11:51	1
Chloroform	ND		0.50	0.090	ug/L			12/04/21 11:51	1
Chloromethane	ND		0.50	0.060	ug/L			12/04/21 11:51	1
cis-1,2-Dichloroethene	ND		0.50	0.050	ug/L			12/04/21 11:51	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			12/04/21 11:51	1
Dibromochloromethane	ND		0.50	0.070	ug/L			12/04/21 11:51	1
Ethylbenzene	ND		0.50	0.060	ug/L			12/04/21 11:51	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			12/04/21 11:51	1
Methylene Chloride	ND		0.50	0.070	ug/L			12/04/21 11:51	1
Styrene	ND		0.50	0.050	ug/L			12/04/21 11:51	1
Tetrachloroethene	ND		0.50	0.060	ug/L			12/04/21 11:51	1
Toluene	ND		0.50	0.070	ug/L			12/04/21 11:51	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			12/04/21 11:51	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			12/04/21 11:51	1
Trichloroethene	ND		0.50	0.060	ug/L			12/04/21 11:51	1
Vinyl chloride	ND		0.50	0.10	ug/L			12/04/21 11:51	1
Xylenes, Total	ND		1.0	0.15	ug/L			12/04/21 11:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*80 - 120*		*12/04/21 11:51*	*1*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*12/04/21 11:51*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*12/04/21 11:51*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*12/04/21 11:51*	*1*

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

Lab Sample ID: LCS 410-201490/4
Matrix: Water
Analysis Batch: 201490

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5.00	4.73		ug/L		95	71 - 134
1,1,1-Trichloroethane	5.00	4.69		ug/L		94	78 - 126
1,1,2,2-Tetrachloroethane	5.00	5.08		ug/L		102	75 - 123
1,1,2-Trichloroethane	5.00	4.80		ug/L		96	80 - 120
1,1-Dichloroethane	5.00	4.26		ug/L		85	74 - 120
1,1-Dichloroethene	5.00	4.61		ug/L		92	80 - 131
1,2-Dibromoethane (EDB)	5.00	4.73		ug/L		95	80 - 120
1,2-Dichloroethane	5.00	4.54		ug/L		91	69 - 122
1,2-Dichloropropane	5.00	4.35		ug/L		87	80 - 120
2-Butanone (MEK)	62.5	55.8		ug/L		89	59 - 141
2-Hexanone	62.5	57.9		ug/L		93	52 - 140
4-Methyl-2-pentanone (MIBK)	62.5	54.4		ug/L		87	55 - 140
Acetone	62.5	48.6		ug/L		78	60 - 146
Benzene	5.00	4.54		ug/L		91	80 - 120
Bromochloromethane	5.00	4.62		ug/L		92	80 - 120
Bromodichloromethane	5.00	4.64		ug/L		93	73 - 124
Bromoform	5.00	4.19		ug/L		84	49 - 144
Bromomethane	5.00	4.55		ug/L		91	60 - 136
Carbon disulfide	5.00	4.53		ug/L		91	67 - 130
Carbon tetrachloride	5.00	4.61		ug/L		92	64 - 141
Chlorobenzene	5.00	4.69		ug/L		94	80 - 120
Chloroethane	5.00	4.50		ug/L		90	63 - 120
Chloroform	5.00	4.67		ug/L		93	80 - 120
Chloromethane	5.00	4.65		ug/L		93	56 - 124
cis-1,2-Dichloroethene	5.00	4.68		ug/L		94	80 - 122
cis-1,3-Dichloropropene	5.00	4.39		ug/L		88	67 - 121
Dibromochloromethane	5.00	4.55		ug/L		91	64 - 138
Ethylbenzene	5.00	4.68		ug/L		94	80 - 120
Methyl tert-butyl ether	5.00	4.58		ug/L		92	69 - 120
Methylene Chloride	5.00	4.56		ug/L		91	80 - 120
Styrene	5.00	4.80		ug/L		96	80 - 120
Tetrachloroethene	5.00	4.36		ug/L		87	80 - 120
Toluene	5.00	4.65		ug/L		93	80 - 120
trans-1,2-Dichloroethene	5.00	4.63		ug/L		93	80 - 122
trans-1,3-Dichloropropene	5.00	4.81		ug/L		96	61 - 129
Trichloroethene	5.00	4.63		ug/L		93	80 - 120
Vinyl chloride	5.00	4.38		ug/L		88	60 - 125
Xylenes, Total	15.0	14.1		ug/L		94	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

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

Lab Sample ID: LCSD 410-201490/5
Matrix: Water
Analysis Batch: 201490

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			5.00	4.70		ug/L		94	71 - 134	1	30
1,1,1-Trichloroethane			5.00	4.77		ug/L		95	78 - 126	2	30
1,1,2,2-Tetrachloroethane			5.00	4.90		ug/L		98	75 - 123	4	30
1,1,2-Trichloroethane			5.00	4.69		ug/L		94	80 - 120	2	30
1,1-Dichloroethane			5.00	4.20		ug/L		84	74 - 120	1	30
1,1-Dichloroethene			5.00	4.64		ug/L		93	80 - 131	1	30
1,2-Dibromoethane (EDB)			5.00	4.59		ug/L		92	80 - 120	3	30
1,2-Dichloroethane			5.00	4.30		ug/L		86	69 - 122	5	30
1,2-Dichloropropane			5.00	4.34		ug/L		87	80 - 120	0	30
2-Butanone (MEK)			62.5	60.7		ug/L		97	59 - 141	8	30
2-Hexanone			62.5	62.8		ug/L		101	52 - 140	8	30
4-Methyl-2-pentanone (MIBK)			62.5	59.9		ug/L		96	55 - 140	10	30
Acetone			62.5	52.4		ug/L		84	60 - 146	7	30
Benzene			5.00	4.49		ug/L		90	80 - 120	1	30
Bromochloromethane			5.00	4.58		ug/L		92	80 - 120	1	30
Bromodichloromethane			5.00	4.60		ug/L		92	73 - 124	1	30
Bromoform			5.00	4.08		ug/L		82	49 - 144	3	30
Bromomethane			5.00	4.74		ug/L		95	60 - 136	4	30
Carbon disulfide			5.00	4.51		ug/L		90	67 - 130	1	30
Carbon tetrachloride			5.00	4.61		ug/L		92	64 - 141	0	30
Chlorobenzene			5.00	4.58		ug/L		92	80 - 120	2	30
Chloroethane			5.00	4.53		ug/L		91	63 - 120	1	30
Chloroform			5.00	4.66		ug/L		93	80 - 120	0	30
Chloromethane			5.00	4.50		ug/L		90	56 - 124	3	30
cis-1,2-Dichloroethene			5.00	4.70		ug/L		94	80 - 122	0	30
cis-1,3-Dichloropropene			5.00	4.33		ug/L		87	67 - 121	1	30
Dibromochloromethane			5.00	4.47		ug/L		89	64 - 138	2	30
Ethylbenzene			5.00	4.59		ug/L		92	80 - 120	2	30
Methyl tert-butyl ether			5.00	4.60		ug/L		92	69 - 120	1	30
Methylene Chloride			5.00	4.46		ug/L		89	80 - 120	2	30
Styrene			5.00	4.69		ug/L		94	80 - 120	2	30
Tetrachloroethene			5.00	4.29		ug/L		86	80 - 120	2	30
Toluene			5.00	4.57		ug/L		91	80 - 120	2	30
trans-1,2-Dichloroethene			5.00	4.51		ug/L		90	80 - 122	3	30
trans-1,3-Dichloropropene			5.00	4.64		ug/L		93	61 - 129	4	30
Trichloroethene			5.00	4.54		ug/L		91	80 - 120	2	30
Vinyl chloride			5.00	4.34		ug/L		87	60 - 125	1	30
Xylenes, Total			15.0	13.7		ug/L		91	80 - 120	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

GC/MS VOA

Analysis Batch: 200572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-64660-1	HD-COD-SW-6-0/1-0	Total/NA	Water	8260D	
410-64660-2	HD-COD-SW-7-0/1-0	Total/NA	Water	8260D	
410-64660-3	HD-COD-SW-8-0/1-0	Total/NA	Water	8260D	
410-64660-4	HD-COD-SW-9-0/1-0	Total/NA	Water	8260D	
410-64660-5	HD-COD-SW-13-0/1-0	Total/NA	Water	8260D	
410-64660-6	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	
MB 410-200572/8	Method Blank	Total/NA	Water	8260D	
LCS 410-200572/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-200572/5	Lab Control Sample Dup	Total/NA	Water	8260D	
410-64660-6 MS	HD-COD-SW-15-0/1-0 MS	Total/NA	Water	8260D	
410-64660-6 MSD	HD-COD-SW-15-0/1-0 MSD	Total/NA	Water	8260D	

Analysis Batch: 201082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-64660-7	HD-COD-SW-16-0/1-0	Total/NA	Water	8260D	
410-64660-8	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-64660-9	HD-COD-SW-26-0/1-0	Total/NA	Water	8260D	
410-64660-10	HD-COD-SW-27-0/1-0	Total/NA	Water	8260D	
410-64660-11	HD-COD-SW-28-0/1-0	Total/NA	Water	8260D	
410-64660-12	HD-COD-SW-29-0/1-0	Total/NA	Water	8260D	
410-64660-13	HD-QC1-0/1-1	Total/NA	Water	8260D	
410-64660-14	HD-QC1-0/1-2	Total/NA	Water	8260D	
MB 410-201082/11	Method Blank	Total/NA	Water	8260D	
LCS 410-201082/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-201082/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 201490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-64660-8 - DL	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-64660-13 - DL	HD-QC1-0/1-1	Total/NA	Water	8260D	
MB 410-201490/8	Method Blank	Total/NA	Water	8260D	
LCS 410-201490/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-201490/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Client Sample ID: HD-COD-SW-6-0/1-0
Lab Sample ID: 410-64660-1
Date Collected: 11/23/21 10:00
Matrix: Water
Date Received: 11/23/21 18:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	200572	12/02/21 14:58	DVW2	ELLE

Client Sample ID: HD-COD-SW-7-0/1-0
Lab Sample ID: 410-64660-2
Date Collected: 11/23/21 10:40
Matrix: Water
Date Received: 11/23/21 18:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	200572	12/02/21 15:19	DVW2	ELLE

Client Sample ID: HD-COD-SW-8-0/1-0
Lab Sample ID: 410-64660-3
Date Collected: 11/23/21 08:55
Matrix: Water
Date Received: 11/23/21 18:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	200572	12/02/21 15:41	DVW2	ELLE

Client Sample ID: HD-COD-SW-9-0/1-0
Lab Sample ID: 410-64660-4
Date Collected: 11/23/21 11:50
Matrix: Water
Date Received: 11/23/21 18:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	200572	12/02/21 16:02	DVW2	ELLE

Client Sample ID: HD-COD-SW-13-0/1-0
Lab Sample ID: 410-64660-5
Date Collected: 11/23/21 09:10
Matrix: Water
Date Received: 11/23/21 18:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	200572	12/02/21 16:23	DVW2	ELLE

Client Sample ID: HD-COD-SW-15-0/1-0
Lab Sample ID: 410-64660-6
Date Collected: 11/23/21 11:05
Matrix: Water
Date Received: 11/23/21 18:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	200572	12/02/21 13:34	DVW2	ELLE

Client Sample ID: HD-COD-SW-16-0/1-0
Lab Sample ID: 410-64660-7
Date Collected: 11/23/21 09:30
Matrix: Water
Date Received: 11/23/21 18:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	201082	12/03/21 16:31	DVW2	ELLE

Client Sample ID: HD-COD-SW-17-0/1-0
Lab Sample ID: 410-64660-8
Date Collected: 11/23/21 09:40
Matrix: Water
Date Received: 11/23/21 18:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	DL	10	201490	12/04/21 17:24	USEJ	ELLE
Total/NA	Analysis	8260D		1	201082	12/03/21 16:53	DVW2	ELLE

Client Sample ID: HD-COD-SW-26-0/1-0
Lab Sample ID: 410-64660-9
Date Collected: 11/23/21 10:25
Matrix: Water
Date Received: 11/23/21 18:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	201082	12/03/21 17:14	DVW2	ELLE

Client Sample ID: HD-COD-SW-27-0/1-0
Lab Sample ID: 410-64660-10
Date Collected: 11/23/21 10:55
Matrix: Water
Date Received: 11/23/21 18:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	201082	12/03/21 17:35	DVW2	ELLE

Client Sample ID: HD-COD-SW-28-0/1-0
Lab Sample ID: 410-64660-11
Date Collected: 11/23/21 12:05
Matrix: Water
Date Received: 11/23/21 18:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	201082	12/03/21 17:56	DVW2	ELLE

Client Sample ID: HD-COD-SW-29-0/1-0
Lab Sample ID: 410-64660-12
Date Collected: 11/23/21 08:40
Matrix: Water
Date Received: 11/23/21 18:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	201082	12/03/21 18:17	DVW2	ELLE

Client Sample ID: HD-QC1-0/1-1
Lab Sample ID: 410-64660-13
Date Collected: 11/23/21 12:00
Matrix: Water
Date Received: 11/23/21 18:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	DL	10	201490	12/04/21 17:46	USEJ	ELLE
Total/NA	Analysis	8260D		1	201082	12/03/21 18:38	DVW2	ELLE

Client Sample ID: HD-QC1-0/1-2
Lab Sample ID: 410-64660-14
Date Collected: 11/23/21 00:00
Matrix: Water
Date Received: 11/23/21 18:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	201082	12/03/21 13:20	DVW2	ELLE

Laboratory References:

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

Accreditation/Certification Summary

Client: Groundwater Sciences Corporation
Job ID: 410-64660-1
Project/Site: fYNOP Monthly Surface Water

Laboratory: Eurofins Lancaster Laboratories Env, LLC

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

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-22

Method Summary

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

Job ID: 410-64660-1

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 Env, 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: 410-64660-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-64660-1	HD-COD-SW-6-0/1-0	Water	11/23/21 10:00	11/23/21 18:34
410-64660-2	HD-COD-SW-7-0/1-0	Water	11/23/21 10:40	11/23/21 18:34
410-64660-3	HD-COD-SW-8-0/1-0	Water	11/23/21 08:55	11/23/21 18:34
410-64660-4	HD-COD-SW-9-0/1-0	Water	11/23/21 11:50	11/23/21 18:34
410-64660-5	HD-COD-SW-13-0/1-0	Water	11/23/21 09:10	11/23/21 18:34
410-64660-6	HD-COD-SW-15-0/1-0	Water	11/23/21 11:05	11/23/21 18:34
410-64660-7	HD-COD-SW-16-0/1-0	Water	11/23/21 09:30	11/23/21 18:34
410-64660-8	HD-COD-SW-17-0/1-0	Water	11/23/21 09:40	11/23/21 18:34
410-64660-9	HD-COD-SW-26-0/1-0	Water	11/23/21 10:25	11/23/21 18:34
410-64660-10	HD-COD-SW-27-0/1-0	Water	11/23/21 10:55	11/23/21 18:34
410-64660-11	HD-COD-SW-28-0/1-0	Water	11/23/21 12:05	11/23/21 18:34
410-64660-12	HD-COD-SW-29-0/1-0	Water	11/23/21 08:40	11/23/21 18:34
410-64660-13	HD-QC1-0/1-1	Water	11/23/21 12:00	11/23/21 18:34
410-64660-14	HD-QC1-0/1-2	Water	11/23/21 00:00	11/23/21 18:34

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-64660-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 153227

Lab Sample ID: IC 410-153227/12 Client Sample ID:

Date Analyzed: 07/27/21 19:35 Lab File ID: GL27X12.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.96	Baseline	spositok	07/28/21 11:51
1,4-Dioxane	8.63	Incomplete Integration	spositok	07/28/21 11:57

Lab Sample ID: ICIS 410-153227/13 Client Sample ID:

Date Analyzed: 07/27/21 19:57 Lab File ID: GL27X13.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.95	Poor chromatography	spositok	07/28/21 11:53
1,4-Dioxane	8.65	Incomplete Integration	spositok	07/28/21 11:56

Lab Sample ID: IC 410-153227/14 Client Sample ID:

Date Analyzed: 07/27/21 20:19 Lab File ID: GL27X14.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.65	Incomplete Integration	spositok	07/28/21 11:55

Lab Sample ID: IC 410-153227/15 Client Sample ID:

Date Analyzed: 07/27/21 20:41 Lab File ID: GL27X15.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.65	Incomplete Integration	spositok	07/28/21 11:58

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-64660-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 153227

Lab Sample ID: IC 410-153227/16 Client Sample ID:

Date Analyzed: 07/27/21 21:03 Lab File ID: GL27X16.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.95	Baseline	spositok	07/28/21 12:00
1,4-Dioxane	8.62	Incomplete Integration	spositok	07/28/21 12:00

Lab Sample ID: IC 410-153227/17 Client Sample ID:

Date Analyzed: 07/27/21 21:25 Lab File ID: GL27X17.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethyl ether	3.20	Incomplete Integration	spositok	07/28/21 12:01
Acetone	3.56	Poor chromatography	spositok	07/28/21 12:02
Carbon disulfide	3.81	Incomplete Integration	spositok	07/28/21 12:02
Methyl acetate	3.95	Baseline	spositok	07/28/21 12:02
1,1-Dichloroethane	5.23	Baseline	spositok	07/28/21 12:02
1,4-Dioxane	8.62	Incomplete Integration	spositok	07/28/21 12:01

Lab Sample ID: IC 410-153227/18 Client Sample ID:

Date Analyzed: 07/27/21 21:47 Lab File ID: GL27X18.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.97	Incomplete Integration	spositok	07/28/21 12:04
Freon 123a	3.31	Incomplete Integration	spositok	07/28/21 12:04
trans-1,2-Dichloroethene	4.56	Incomplete Integration	knouses	08/05/21 12:23
2-Chloro-1,3-butadiene	5.34	Incomplete Integration	spositok	07/28/21 12:04
1,1-Dichloropropene	6.98	Incomplete Integration	spositok	07/28/21 12:04
t-Amyl methyl ether	7.45	Incomplete Integration	spositok	07/28/21 12:04
1,4-Dioxane		Invalid Compound ID	spositok	07/28/21 12:05

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-64660-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 153227

Lab Sample ID: ICV 410-153227/19 Client Sample ID:

Date Analyzed: 07/27/21 22:09 Lab File ID: GL27X19.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.67	Incomplete Integration	spositok	07/28/21 12:12

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-64660-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 163707

Lab Sample ID: IC 410-163707/12 Client Sample ID:

Date Analyzed: 08/24/21 00:45 Lab File ID: IG23I01.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.63	Incomplete Integration	longj	08/24/21 15:03

Lab Sample ID: IC 410-163707/14 Client Sample ID:

Date Analyzed: 08/24/21 01:27 Lab File ID: IG23I03.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.63	Incomplete Integration	longj	08/24/21 15:02

Lab Sample ID: IC 410-163707/15 Client Sample ID:

Date Analyzed: 08/24/21 01:48 Lab File ID: IG23I04.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol-d10 (IS)	4.26	Incomplete Integration	longj	08/24/21 15:16
1,4-Dioxane	8.64	Split Peak	longj	08/24/21 15:15

Lab Sample ID: IC 410-163707/16 Client Sample ID:

Date Analyzed: 08/24/21 02:09 Lab File ID: IG23I05.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.62	Baseline	longj	08/24/21 15:05
1,4-Dioxane	8.65	Incomplete Integration	longj	08/24/21 15:17

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-64660-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 163707

Lab Sample ID: IC 410-163707/17 Client Sample ID:

Date Analyzed: 08/24/21 02:30 Lab File ID: IG23I06.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	4.05	Baseline	longj	08/24/21 15:07
1,4-Dioxane	8.64	Incomplete Integration	longj	08/24/21 15:07

Lab Sample ID: IC 410-163707/18 Client Sample ID:

Date Analyzed: 08/24/21 02:52 Lab File ID: IG23I07.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	4.03	Split Peak	longj	08/24/21 15:08

Lab Sample ID: ICV 410-163707/19 Client Sample ID:

Date Analyzed: 08/24/21 03:13 Lab File ID: IG23V01.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.63	Incomplete Integration	longj	08/24/21 15:37

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-64660-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 200572

Lab Sample ID: 410-64660-6 Client Sample ID: HD-COD-SW-15-0/1-0

Date Analyzed: 12/02/21 13:34 Lab File ID: ID02X10.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone		Invalid Compound ID	beckerk	12/02/21 18:41

Lab Sample ID: 410-64660-1 Client Sample ID: HD-COD-SW-6-0/1-0

Date Analyzed: 12/02/21 14:58 Lab File ID: ID02X14.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.57	Incomplete Integration	beckerk	12/02/21 18:43
cis-1,2-Dichloroethene	6.12	Incomplete Integration	beckerk	12/02/21 18:43

Lab Sample ID: 410-64660-3 Client Sample ID: HD-COD-SW-8-0/1-0

Date Analyzed: 12/02/21 15:41 Lab File ID: ID02X16.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.59	Split Peak	beckerk	12/02/21 18:44
cis-1,2-Dichloroethene	6.12	Split Peak	beckerk	12/02/21 18:44

Lab Sample ID: 410-64660-5 Client Sample ID: HD-COD-SW-13-0/1-0

Date Analyzed: 12/02/21 16:23 Lab File ID: ID02X18.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.56	Split Peak	beckerk	12/02/21 18:45

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-64660-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 201082

Lab Sample ID: CCVIS 410-201082/3 Client Sample ID:

Date Analyzed: 12/03/21 09:48 Lab File ID: ID03X02.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	3.00	Incomplete Integration	kephartk	12/03/21 10:21

Lab Sample ID: MB 410-201082/11 Client Sample ID:

Date Analyzed: 12/03/21 12:38 Lab File ID: ID03X10.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.16	Peak assignment corrected	kephartk	12/03/21 13:56

Lab Sample ID: 410-64660-7 Client Sample ID: HD-COD-SW-16-0/1-0

Date Analyzed: 12/03/21 16:31 Lab File ID: ID03X21.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.59	Split Peak	beckerk	12/03/21 17:42

Lab Sample ID: 410-64660-8 Client Sample ID: HD-COD-SW-17-0/1-0

Date Analyzed: 12/03/21 16:53 Lab File ID: ID03X22.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
trans-1,2-Dichloroethene	4.62	Incomplete Integration	beckerk	12/03/21 17:43
1,1,2-Trichloroethane		Invalid Compound ID	beckerk	12/03/21 17:43
Acetone		Invalid Compound ID	beckerk	12/03/21 17:43

Lab Sample ID: 410-64660-9 Client Sample ID: HD-COD-SW-26-0/1-0

Date Analyzed: 12/03/21 17:14 Lab File ID: ID03X23.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone		Invalid Compound ID	beckerk	12/03/21 20:33

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-64660-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 201082

Lab Sample ID: 410-64660-12 Client Sample ID: HD-COD-SW-29-0/1-0

Date Analyzed: 12/03/21 18:17 Lab File ID: ID03X26.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.57	Split Peak	beckerk	12/03/21 20:34

Lab Sample ID: 410-64660-13 Client Sample ID: HD-QC1-0/1-1

Date Analyzed: 12/03/21 18:38 Lab File ID: ID03X27.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl tert-butyl ether	4.60	Incomplete Integration	beckerk	12/03/21 20:35
Acetone		Invalid Compound ID	beckerk	12/03/21 20:35

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_29_826ISS_00020	12/28/21	06/28/21	Methanol, Lot DZ644	10 mL	MSV_8260_SS_00388	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_00322	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_00388	12/28/21		Restek, Lot A0146938		(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_00322	12/28/21		Restek, Lot A0160586		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_29_826ISS_00026	05/29/22	11/29/21	Methanol, Lot EB679	10 mL	MSV_Cus826_IS_00385	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_00385	08/31/24		Restek, Lot A0175453		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_29_826ISS_00026	05/29/22	11/29/21	Methanol, Lot EB679	10 mL	MSV_8260_SS_00531	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_00531	04/30/24		Restek, Lot A0171410		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
MSV_LCS_VOC#1_00011	08/26/21	07/27/21	Methanol, Lot DZ644	25 mL	MSV_M_MIX1SEC_00014	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

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Methylene Chloride	40 ug/mL
							Styrene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00014	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00015	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_00014	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_00014	04/30/24		Restek, Lot A0171837		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00015	01/31/24		Restek, Lot A0167987		(Purchased Reagent)		2-Butanone (MEK)	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		
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LCS_VOC#1_00015	09/22/21	08/23/21	Methanol, Lot DZ644	25 mL	MSV_M_MIX1SEC_00019	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_00028	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00019	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_00019	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

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
.MSV_M_MIX2SEC_00028	04/30/24		Restek, Lot A0171837		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00019	01/31/24		Restek, Lot A0167987		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LCS_VOC#1_00029	12/29/21	11/29/21	Methanol, Lot EB679	25 mL	MSV_M_MIX1SEC_00036	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

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00037	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00036	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_00036	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_00037	04/30/24		Restek, Lot A0171837		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00036	01/31/24		Restek, Lot A0167987		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LL_#1_826_00011	08/26/21	07/27/21	Methanol, Lot DZ644	1 mL	MSV_CCV_VOC#1_00012	50 uL	Ethyl methacrylate	50.0022 ug/mL
							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

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SDG No.:

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

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,4-Dioxane	2500 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							2-Nitropropane	250 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Acrylonitrile	125 ug/mL
							Benzyl chloride	50 ug/mL
							Carbon disulfide	50 ug/mL
							Cyclohexane	50 ug/mL
							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_00011	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
							Acrolein	2499.93 ug/mL
					MSV_V_VOA2_00097	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_00012	08/26/21	07/27/21	Methanol, Lot DZ644	5 mL	MSV_EM_Work_00001	1 mL	Ethyl methacrylate	1000.04 ug/mL
					MSV_MegaMIX#1_00011	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

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SDG No.:

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

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSV_MegaMix#2_00011	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
							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_EM_Work_00001	11/24/21	05/24/21	Methanol, Lot DZ644	50 mL	MSV_EthylM_St_00001	4.938 mL	Ethyl methacrylate	5000.22 ug/mL
...MSV_EthylM_St_00001	11/24/21	05/24/21	Methanol, Lot DZ644	10 mL	MSV_EthylMeth_00001	0.5063 g	Ethyl methacrylate	50630 ug/mL
....MSV_EthylMeth_00001	01/31/23	Chem Service, Lot 11325900			(Purchased Reagent)		Ethyl methacrylate	1 g/g
..MSV_MegaMIX#1_00011	08/26/21	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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trimethylbenzene	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL
							2-Chlorotoluene	5000 ug/mL
							4-Chlorotoluene	5000 ug/mL
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00011	08/26/21		Restek, Lot A0172089		(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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acrylonitrile	12500 ug/mL
							Benzyl chloride	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	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_00011	08/26/21	07/27/21	Methanol, Lot DZ644	5 mL	MSV_V_Ketones_00011	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_VACR_00018	0.5 mL	Acrolein	12499.6 ug/mL
..MSV_V_Ketones_00011	01/31/24		Restek, Lot A0168313		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..MSV_VACR_00018	09/08/21	07/09/21	Methanol, Lot DZ644	10 mL	MSV_VACR_STK_00020	9.253 mL	Acrolein	124996 ug/mL
...MSV_VACR_STK_00020	09/08/21	07/09/21	Methanol, Lot DZ644	10 mL	MSV_ACROLEIN_00013	1.4417 g	Acrolein	135087 ug/mL
....MSV_ACROLEIN_00013	09/30/21		Chem Service, Lot 10804400		(Purchased Reagent)		Acrolein	0.937 g/g
.MSV_V_VOA2_00097	08/26/21	07/27/21	Methanol, Lot DZ644	5 mL	MSV_V#2B_00227	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_00227	04/30/22		Restek, Lot A0171518		(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Methacrylonitrile	12500 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_LL_#1_826_00015	09/07/21	08/23/21	Methanol, Lot DZ644	1 mL	MSV_CCV_VOC#1_00017	50 uL	Ethyl methacrylate	50.0022 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1

SDG No.:

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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_00016	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
							Acrolein	2499.93 ug/mL
					MSV_V_VOA2_00101	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_00017	09/22/21	08/23/21	Methanol, Lot DZ644	5 mL	MSV_EM_Work_00001	1 mL	Ethyl methacrylate	1000.04 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSV_MegaMIX#1_00015	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_00015	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
							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_EM_Work_00001	11/24/21	05/24/21	Methanol, Lot DZ644	50 mL	MSV_EthylM_St_00001	4.938 mL	Ethyl methacrylate	5000.22 ug/mL
...MSV_EthylM_St_00001	11/24/21	05/24/21	Methanol, Lot DZ644	10 mL	MSV_EthylMeth_00001	0.5063 g	Ethyl methacrylate	50630 ug/mL
....MSV_EthylMeth_00001	01/31/23	Chem Service, Lot 11325900			(Purchased Reagent)		Ethyl methacrylate	1 g/g
..MSV_MegaMIX#1_00015	09/22/21	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

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trimethylbenzene	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL
							2-Chlorotoluene	5000 ug/mL
							4-Chlorotoluene	5000 ug/mL
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00015	09/22/21		Restek, Lot A0172089		(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

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							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_00016	09/07/21	08/23/21	Methanol, Lot DZ644	5 mL	MSV_V_Ketones_00014	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_VACR_00018	0.5 mL	Acrolein	12499.6 ug/mL
..MSV_V_Ketones_00014	01/31/24	Restek, Lot A0168313			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..MSV_VACR_00018	09/08/21	07/09/21	Methanol, Lot DZ644	10 mL	MSV_VACR_STK_00020	9.253 mL	Acrolein	124996 ug/mL
...MSV_VACR_STK_00020	09/08/21	07/09/21	Methanol, Lot DZ644	10 mL	MSV_ACROLEIN_00013	1.4417 g	Acrolein	135087 ug/mL
....MSV_ACROLEIN_00013	09/30/21	Chem Service, Lot 10804400			(Purchased Reagent)		Acrolein	0.937 g/g
.MSV_V_VOA2_00101	09/22/21	08/23/21	Methanol, Lot DZ644	5 mL	MSV_V#2B_00231	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_00231	04/30/22	Restek, Lot A0171518			(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Methacrylonitrile	12500 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_LL_#1_826_00025	12/15/21	11/16/21	Methanol, Lot EB679	1 mL	MSV_CCV_VOC#1_00035	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_00034	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_00035	12/15/21	11/15/21	Methanol, Lot EB679	5 mL	MSV_MegaMIX#1_00033	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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00033	1 mL	Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
..MSV_MegaMIX#1_00033	12/15/21		Restek, Lot A0171634		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							Benzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Methylene Chloride	5000 ug/mL
							Styrene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00033	12/15/21		Restek, Lot A0173454		(Purchased Reagent)		Carbon disulfide	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
.MSV_CCV_VOC#3_00034	12/15/21	11/15/21	Methanol, Lot EB679	5 mL	MSV_V_Ketones_00033	1 mL	2-Butanone (MEK)	2500 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone (MIBK)	2500 ug/mL
							Acetone	2500 ug/mL
..MSV_V_Ketones_00033	01/31/24		Restek, Lot A0168313		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LL_#2_826_00011	08/05/21	07/27/21	Methanol, Lot DZ644	1 mL	MSV_V_EE_00005	50 uL	Ethyl ether	50.0035 ug/mL
					MSV_V_PentaCL_00004	10 uL	Pentachloroethane	50 ug/mL
.MSV_V_EE_00005	10/14/21	04/14/21	Methanol, Lot DZ644	100 mL	MSV_EE_MISCSK_00006	1.989 mL	Ethyl ether	1000.07 ug/mL
..MSV_EE_MISCSK_00006	10/14/21	04/14/21	Methanol, Lot DZ644	10 mL	MSV_EE_Neat_00005	0.5028 g	Ethyl ether	50280 ug/mL
...MSV_EE_Neat_00005	11/30/21		Chem Service, Lot 11028800		(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_PentaCL_00004	08/18/21		Restek, Lot A0171341		(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_LL_#2_826_00015	09/01/21	08/23/21	Methanol, Lot DZ644	1 mL	MSV_V_EE_00005	50 uL	Ethyl ether	50.0035 ug/mL
					MSV_V_PentaCL_00005	10 uL	Pentachloroethane	50 ug/mL
.MSV_V_EE_00005	10/14/21	04/14/21	Methanol, Lot DZ644	100 mL	MSV_EE_MISCSK_00006	1.989 mL	Ethyl ether	1000.07 ug/mL
..MSV_EE_MISCSK_00006	10/14/21	04/14/21	Methanol, Lot DZ644	10 mL	MSV_EE_Neat_00005	0.5028 g	Ethyl ether	50280 ug/mL
...MSV_EE_Neat_00005	11/30/21		Chem Service, Lot 11028800		(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_PentaCL_00005	09/15/21		Restek, Lot A0171341		(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_LL_GAS826_00018	08/03/21	07/27/21	Methanol, Lot DZ644	1 mL	MSV_CCV_GASES_00047	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_00047	08/03/21		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_00027	08/30/21	08/23/21	Methanol, Lot DZ644	1 mL	MSV_CCV_GASES_00060	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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00060	08/30/21		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_00052	12/06/21	11/30/21	Methanol, Lot EB679	1 mL	MSV_CCV_GASES_00112	25 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_00112	12/06/21		Restek, Lot A0172364		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LLcentISS_00001	11/25/21	05/25/21	Methanol, Lot DZ644	50 mL	MSV_8260_SS_00366	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_00310	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_00366	03/31/22		Restek, Lot A0146938		(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_00310	05/31/23		Restek, Lot A0160586		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_LLcentISS_00002	04/18/22	10/18/21	Methanol, Lot EB679	50 mL	MSV_Cus826_IS_00361	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5 (IS)	50 ug/mL
							Fluorobenzene (IS)	50 ug/mL
							t-Butyl alcohol-d10 (IS)	250 ug/mL
.MSV_Cus826_IS_00361	08/31/24		Restek, Lot A0175453		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_LLcentISS_00002	04/18/22	10/18/21	Methanol, Lot EB679	50 mL	MSV_8260_SS_00493	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene-d8 (Surr)	50 ug/mL
.MSV_8260_SS_00493	04/30/24	Restek, Lot A0171410			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
MSV_QC_Gas826_00018	08/03/21	07/27/21	Methanol, Lot DZ644	1 mL	MSV_QC_2K_GAS_00020	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00020	08/03/21	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_00026	08/30/21	08/23/21	Methanol, Lot DZ644	1 mL	MSV_QC_2K_GAS_00030	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00030	08/30/21	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_00052	12/06/21	11/29/21	Methanol, Lot EB679	1 mL	MSV_QC_2K_GAS_00059	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00059	12/06/21	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_00006							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Xylenes, Total	
					MSV_VBFB_STK_00006	0.129 mL	BFB	49.8611 ug/mL
.MSV_VBFB_STK_00006	01/07/22	07/07/21	Methanol, Lot DZ644	10 mL	MSV_4BFB_NEAT_00006	0.9663 g	BFB	96630 ug/mL
..MSV_4BFB_NEAT_00006	02/28/25	Chem Service, Lot 10727100			(Purchased Reagent)		BFB	1 g/g

Reagent

MSV_8260_SS_00366

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 55671 **Lot No.:** A0146938

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, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibromofluoromethane		2,505.2 µg/mL	+/- 14.5653	µg/mL	Gravimetric
	CAS # 1868-53-7	(Lot 0012016)		+/- 140.4622	µg/mL	Unstressed
	Purity 99%			+/- 143.7488	µg/mL	Stressed
2	1,2-Dichloroethane-d4		2,517.2 µg/mL	+/- 14.6350	µg/mL	Gravimetric
	CAS # 17060-07-0	(Lot PR-26748)		+/- 141.1350	µg/mL	Unstressed
	Purity 99%			+/- 144.4374	µg/mL	Stressed
3	Toluene-d8		2,507.7 µg/mL	+/- 14.5798	µg/mL	Gravimetric
	CAS # 2037-26-5	(Lot PR-27311)		+/- 140.6024	µg/mL	Unstressed
	Purity 99%			+/- 143.8923	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)		2,507.7 µg/mL	+/- 14.5798	µg/mL	Gravimetric
	CAS # 460-00-4	(Lot 20401KO)		+/- 140.6024	µg/mL	Unstressed
	Purity 99%			+/- 143.8923	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)

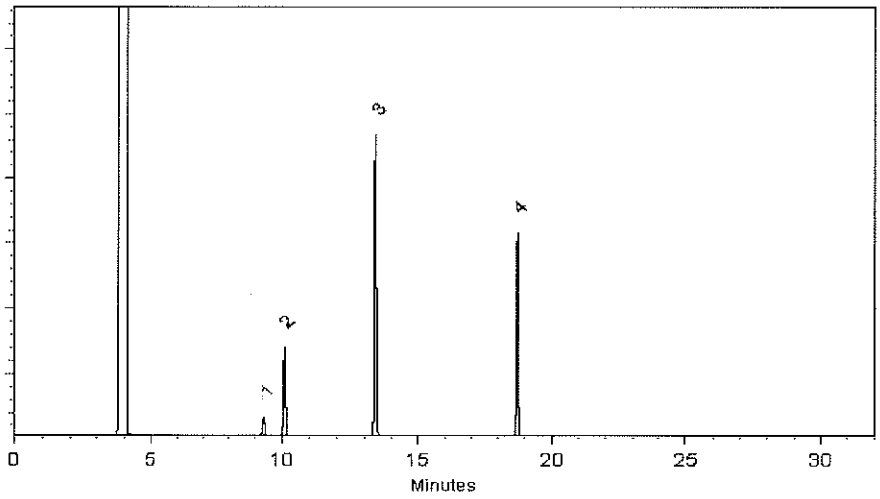
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Maggie Wang
Maggie Wang - Operations Technician I

Date Mixed: 12-Mar-2019 **Balance:** 1128342314

Jennifer J Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 15-Mar-2019

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)	< 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_8260_SS_00388

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 55671 **Lot No.:** A0146938

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, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibromofluoromethane		2,505.2 µg/mL	+/- 14.5653	µg/mL	Gravimetric
	CAS # 1868-53-7	(Lot 0012016)		+/- 140.4622	µg/mL	Unstressed
	Purity 99%			+/- 143.7488	µg/mL	Stressed
2	1,2-Dichloroethane-d4		2,517.2 µg/mL	+/- 14.6350	µg/mL	Gravimetric
	CAS # 17060-07-0	(Lot PR-26748)		+/- 141.1350	µg/mL	Unstressed
	Purity 99%			+/- 144.4374	µg/mL	Stressed
3	Toluene-d8		2,507.7 µg/mL	+/- 14.5798	µg/mL	Gravimetric
	CAS # 2037-26-5	(Lot PR-27311)		+/- 140.6024	µg/mL	Unstressed
	Purity 99%			+/- 143.8923	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)		2,507.7 µg/mL	+/- 14.5798	µg/mL	Gravimetric
	CAS # 460-00-4	(Lot 20401KO)		+/- 140.6024	µg/mL	Unstressed
	Purity 99%			+/- 143.8923	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)

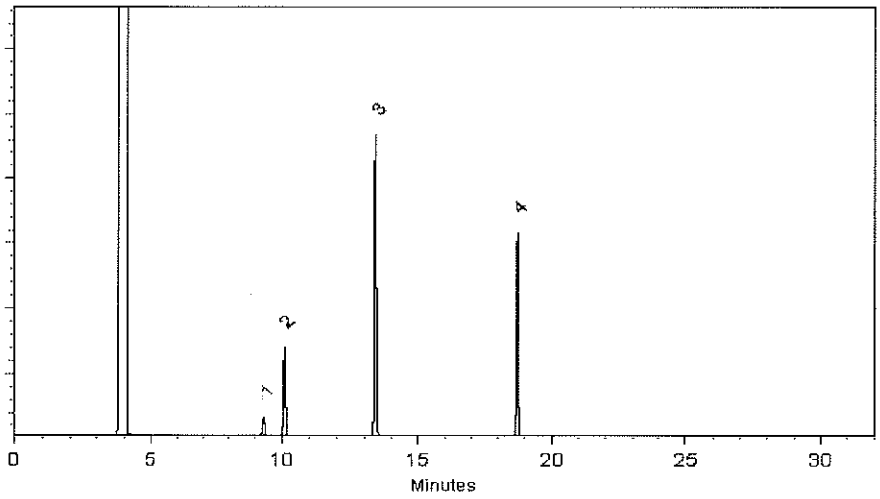
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Maggie Wang
Maggie Wang - Operations Technician I

Date Mixed: 12-Mar-2019 **Balance:** 1128342314

Jennifer J Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 15-Mar-2019

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)	< 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_8260_SS_00493

110 Benner Circle
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : 8260A Surrogate Mix

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

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

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

Ship: Ambient

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

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

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

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

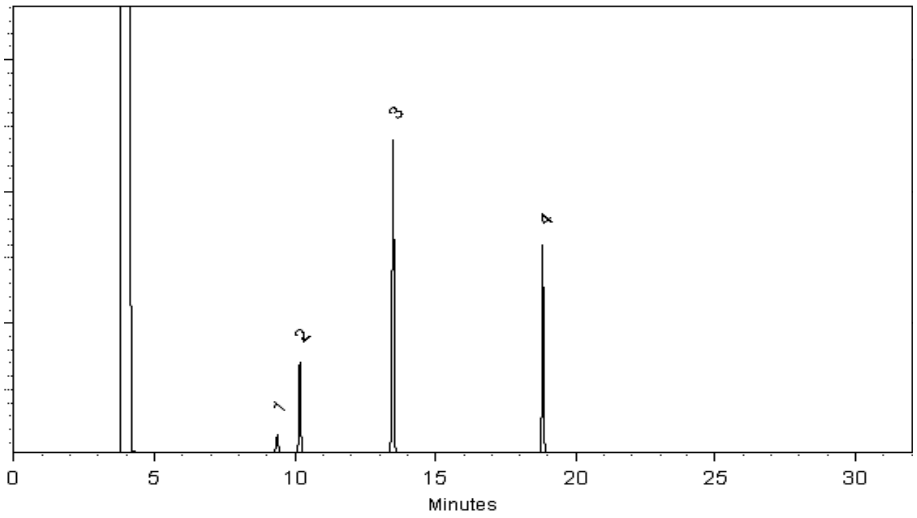
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Sam Moodler - Operations Tech I

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

Alexis Shelow - Operations Tech I

Date Passed: 19-Apr-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : 8260A Surrogate Mix

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

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

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

Ship: Ambient

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

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

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

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

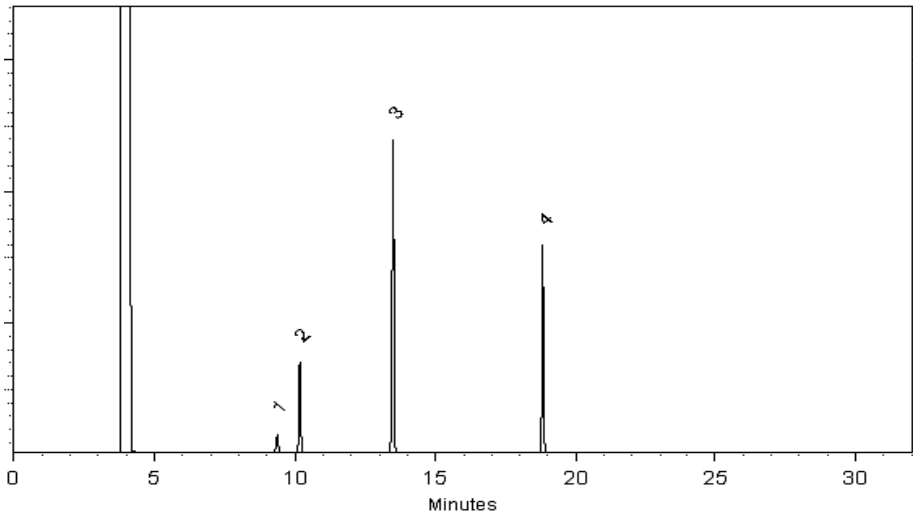
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Sam Moodler - Operations Tech I

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

Alexis Shelow - Operations Tech I

Date Passed: 19-Apr-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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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_CCV_GASES_00047

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577488 **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)

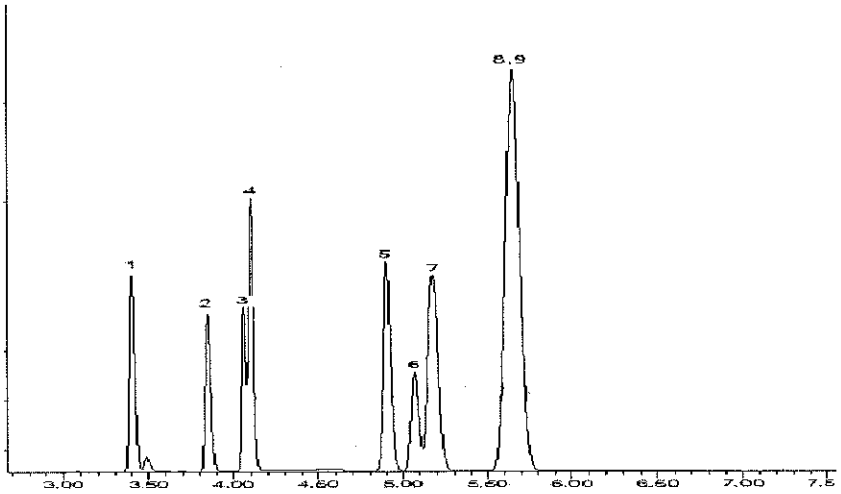
Carrier Gas:
helium-constant flow 2.0 mL/min.

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:

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0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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CERTIFIED REFERENCE MATERIAL

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

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

Description : Custom Gases Standard

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

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

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

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

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

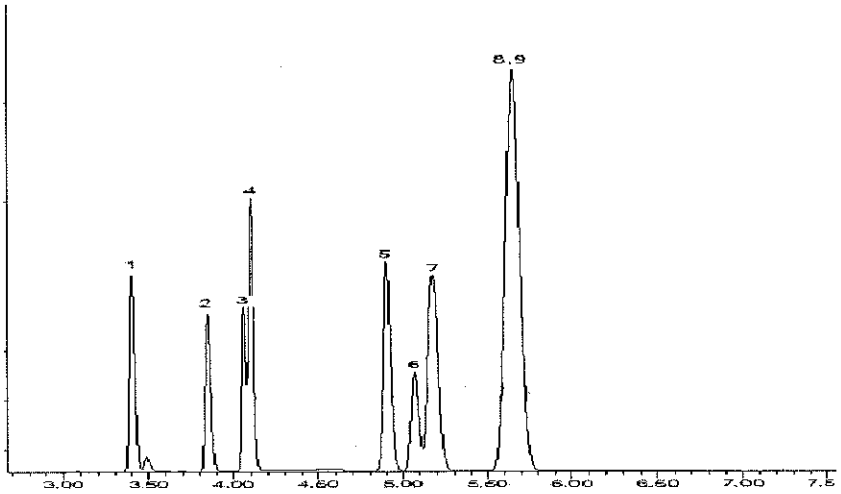
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Tom Suckar - Mix Technician

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

Alexis Shelow - Operations Tech I

Date Passed: 17-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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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)

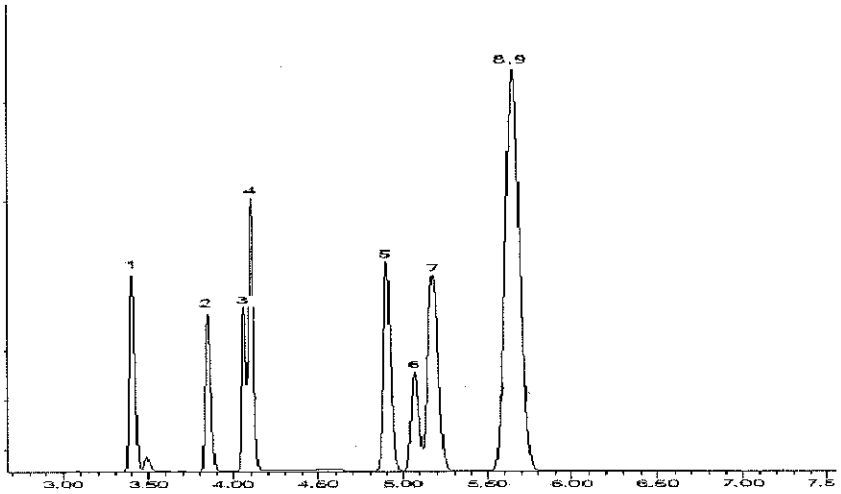
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.

Reagent

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Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 558267 **Lot No.:** A0160586

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 : May 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butyl Alcohol-d10		12,518.0	µg/mL	+/- 73.2956	µg/mL	Gravimetric
	CAS # 53001-22-2	(Lot PR-27803B)			+/- 268.1522	µg/mL	Unstressed
	Purity 99%				+/- 275.9398	µg/mL	Stressed
2	Fluorobenzene		2,506.0	µg/mL	+/- 14.7066	µg/mL	Gravimetric
	CAS # 462-06-6	(Lot BCBZ5549)			+/- 53.6910	µg/mL	Unstressed
	Purity 99%				+/- 55.2497	µg/mL	Stressed
3	Chlorobenzene-d5		2,512.0	µg/mL	+/- 14.7418	µg/mL	Gravimetric
	CAS # 3114-55-4	(Lot PR-29571)			+/- 53.8195	µg/mL	Unstressed
	Purity 99%				+/- 55.3820	µg/mL	Stressed
4	1,4-Dichlorobenzene-d4		2,520.0	µg/mL	+/- 14.7888	µg/mL	Gravimetric
	CAS # 3855-82-1	(Lot PR-30447)			+/- 53.9909	µg/mL	Unstressed
	Purity 99%				+/- 55.5584	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)

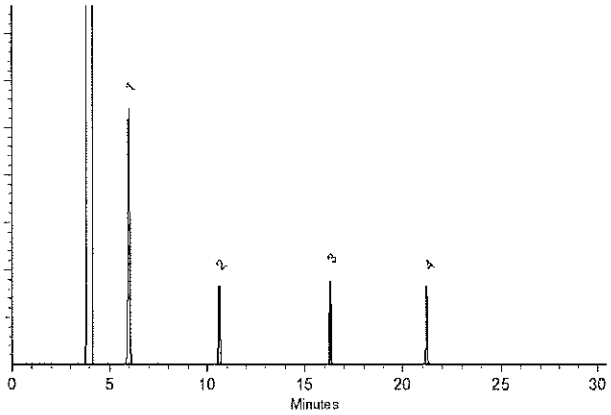
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Kylie Struble - Operations Technician I

Date Mixed: 05-May-2020 **Balance:** B707717271

Justine Albertson - Operations Tech-ARM QC

Date Passed: 06-May-2020

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)	< 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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. : 558267 **Lot No.:** A0160586

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 : May 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butyl Alcohol-d10		12,518.0 µg/mL		+/- 73.2956	µg/mL	Gravimetric
	CAS # 53001-22-2	(Lot PR-27803B)			+/- 268.1522	µg/mL	Unstressed
	Purity 99%				+/- 275.9398	µg/mL	Stressed
2	Fluorobenzene		2,506.0 µg/mL		+/- 14.7066	µg/mL	Gravimetric
	CAS # 462-06-6	(Lot BCBZ5549)			+/- 53.6910	µg/mL	Unstressed
	Purity 99%				+/- 55.2497	µg/mL	Stressed
3	Chlorobenzene-d5		2,512.0 µg/mL		+/- 14.7418	µg/mL	Gravimetric
	CAS # 3114-55-4	(Lot PR-29571)			+/- 53.8195	µg/mL	Unstressed
	Purity 99%				+/- 55.3820	µg/mL	Stressed
4	1,4-Dichlorobenzene-d4		2,520.0 µg/mL		+/- 14.7888	µg/mL	Gravimetric
	CAS # 3855-82-1	(Lot PR-30447)			+/- 53.9909	µg/mL	Unstressed
	Purity 99%				+/- 55.5584	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)

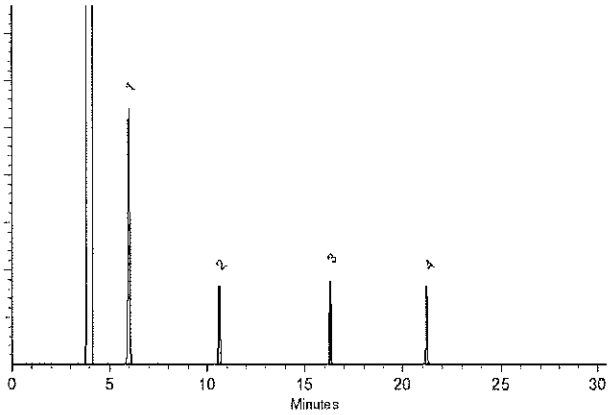
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Kylie Struble - Operations Technician I

Date Mixed: 05-May-2020 **Balance:** B707717271

Justine Albertson - Operations Tech-ARM QC

Date Passed: 06-May-2020

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)	< 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_Cus826_IS_00361

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. : 558267 **Lot No.:** A0175453

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 : August 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	12,519.0 µg/mL	+/- 73.3015 µg/mL	Gravimetric
	CAS # 53001-22-2 (Lot I-433)		+/- 268.1736 µg/mL	Unstressed
	Purity 99%		+/- 275.9618 µg/mL	Stressed
2	Fluorobenzene	2,505.0 µg/mL	+/- 14.7007 µg/mL	Gravimetric
	CAS # 462-06-6 (Lot BCBZ5549)		+/- 53.6696 µg/mL	Unstressed
	Purity 99%		+/- 55.2277 µg/mL	Stressed
3	Chlorobenzene-d5	2,509.0 µg/mL	+/- 14.7242 µg/mL	Gravimetric
	CAS # 3114-55-4 (Lot PR-29571)		+/- 53.7553 µg/mL	Unstressed
	Purity 99%		+/- 55.3159 µg/mL	Stressed
4	1,4-Dichlorobenzene-d4	2,516.0 µg/mL	+/- 14.7653 µg/mL	Gravimetric
	CAS # 3855-82-1 (Lot PR-30447)		+/- 53.9052 µg/mL	Unstressed
	Purity 99%		+/- 55.4702 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)

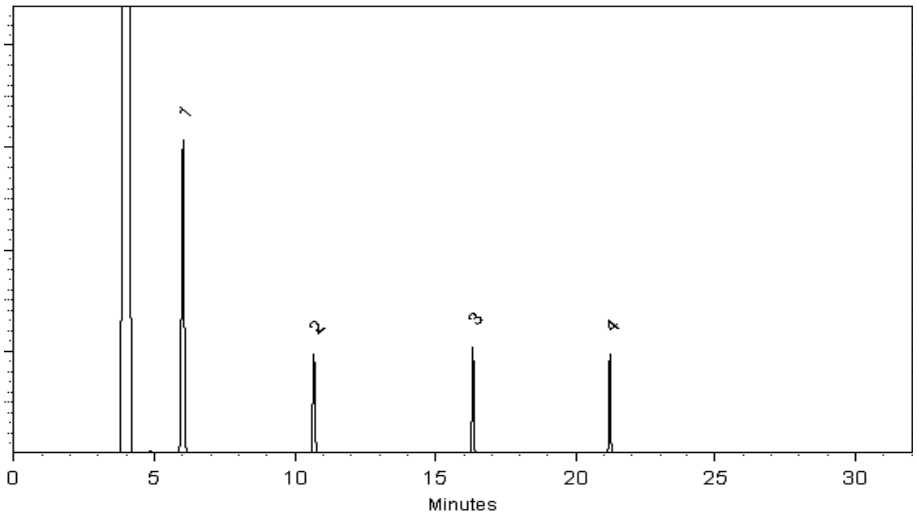
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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: 16-Aug-2021 **Balance:** 1128342314

Marlina Cowan - Operations Tech I

Date Passed: 18-Aug-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_Cus826_IS_00385

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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 : August 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		12,519.0 µg/mL	+/- 73.3015 µg/mL		Gravimetric
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	Purity 99%			+/- 275.9618 µg/mL		Stressed
2	Fluorobenzene		2,505.0 µg/mL	+/- 14.7007 µg/mL		Gravimetric
	CAS # 462-06-6	(Lot BCBZ5549)		+/- 53.6696 µg/mL		Unstressed
	Purity 99%			+/- 55.2277 µg/mL		Stressed
3	Chlorobenzene-d5		2,509.0 µg/mL	+/- 14.7242 µg/mL		Gravimetric
	CAS # 3114-55-4	(Lot PR-29571)		+/- 53.7553 µg/mL		Unstressed
	Purity 99%			+/- 55.3159 µg/mL		Stressed
4	1,4-Dichlorobenzene-d4		2,516.0 µg/mL	+/- 14.7653 µg/mL		Gravimetric
	CAS # 3855-82-1	(Lot PR-30447)		+/- 53.9052 µg/mL		Unstressed
	Purity 99%			+/- 55.4702 µg/mL		Stressed

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CAS # 67-56-1
Purity 99%

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

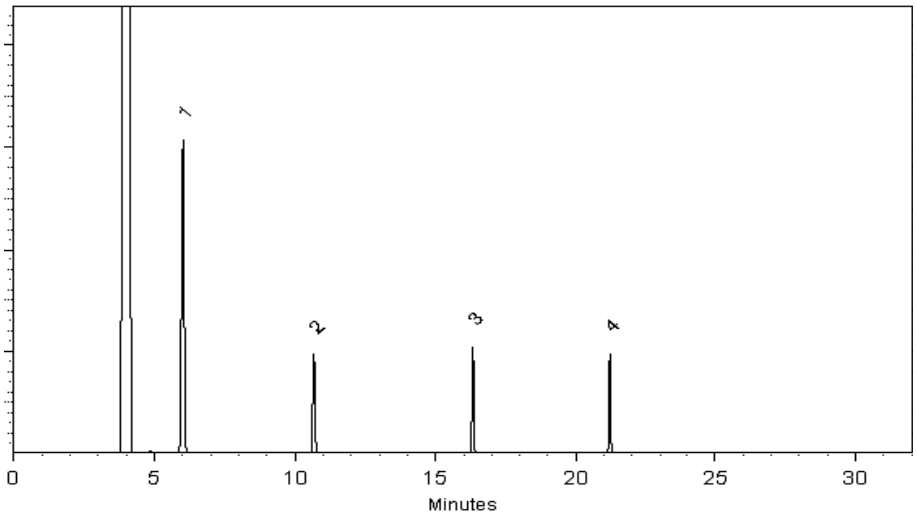
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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



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Jeremy Warefield - Operations Tech I

Date Mixed: 16-Aug-2021 **Balance:** 1128342314

Marlina Cowan - Operations Tech I

Date Passed: 18-Aug-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Manufacturing Notes:

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Handling Notes:

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Reagent

MSV_EthylMeth_00001

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

Ethyl methacrylate

CATALOG NUMBER	N-11903-1G
LOT NUMBER	11325900
DATE CERTIFIED	01/03/19
EXPIRATION DATE	01/31/23
CAS NUMBER	97-63-2
MOLECULAR FORMULA	C6H10O2
MOLECULAR WEIGHT	114.16
STORAGE	Refrigerator storage (2 - 8 °C)
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

✓ Rec'd 5/21/2021 JMcB

Analytical Test	Value
% PURITY (GC/FID)	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

Print Date: 05/20/21

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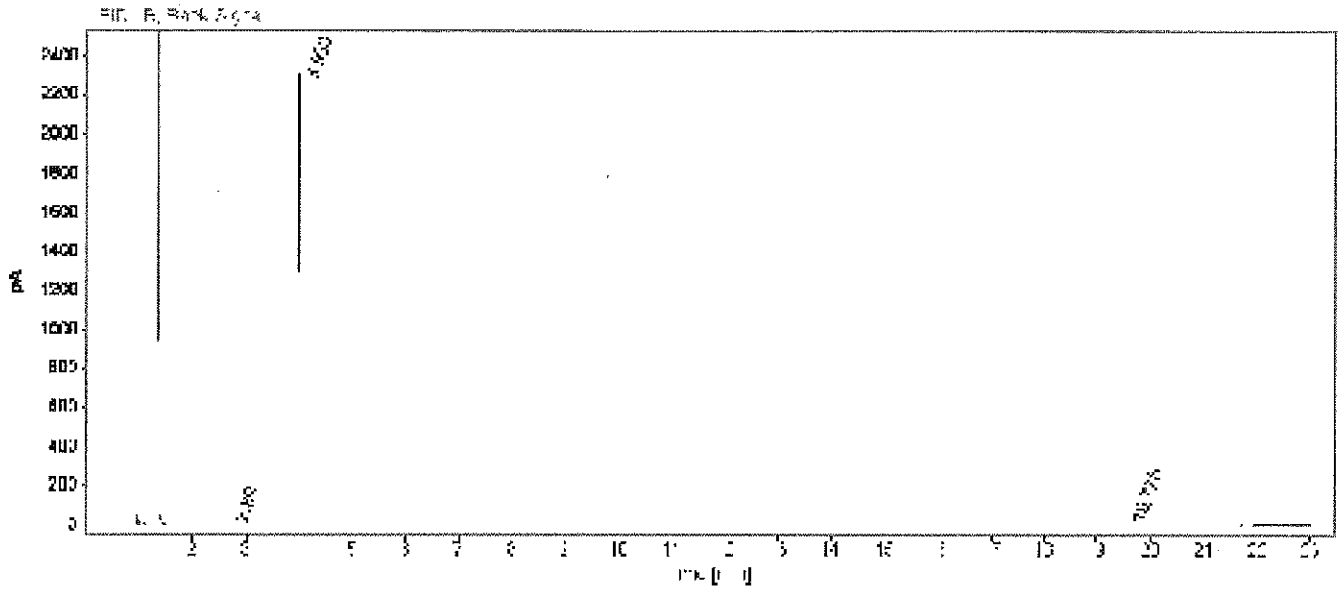
CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file:	C:\CHEM32\1\DATA\2018 DATA\1118\N-11803.D		
Sample name:	ethyl methacrylate		
Description:			
Acq. method:	MIX1.M		
		Location:	201
Instrument:	GC3	**Injection Vol:**	1.000
Injection date:	1/3/2019 7:57:33 AM	**# Of Injections:**	1
Column name:	HP-5ms Ultra Inert	**Diameter** 250.000 **Length** 30.000	**Particle Size** 0.250



Signal: FID1 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
2.890	BB	0.0199	3.0313	2.2234	0.0820
3.983	BB	0.0236	3687.9575	2288.7249	99.8245
19.775	BB	0.0395	3.4535	1.2477	0.0935
		Sum	3694.4423		

PJLA Testing

Reagent

MSV_M_MIX1SEC_00014

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

Description : Custom VOC MegaMix®.SEC #1 Standard

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

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

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

Ship: Ambient

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

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

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

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

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

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

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

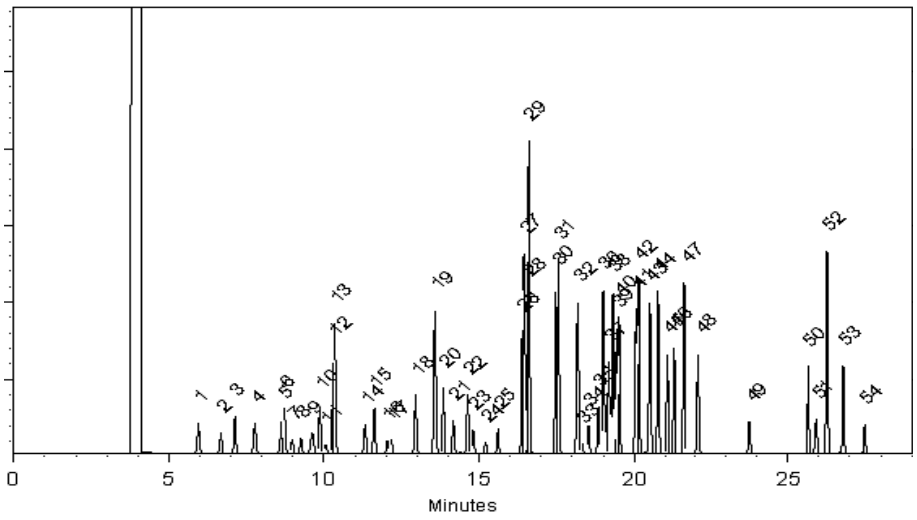
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Bradley Meyer - Mix Technician

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

Alexis Shelow - Operations Tech I

Date Passed: 30-Apr-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX1SEC_00019

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom VOC MegaMix®.SEC #1 Standard

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

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

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

Ship: Ambient

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

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

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

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

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

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

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

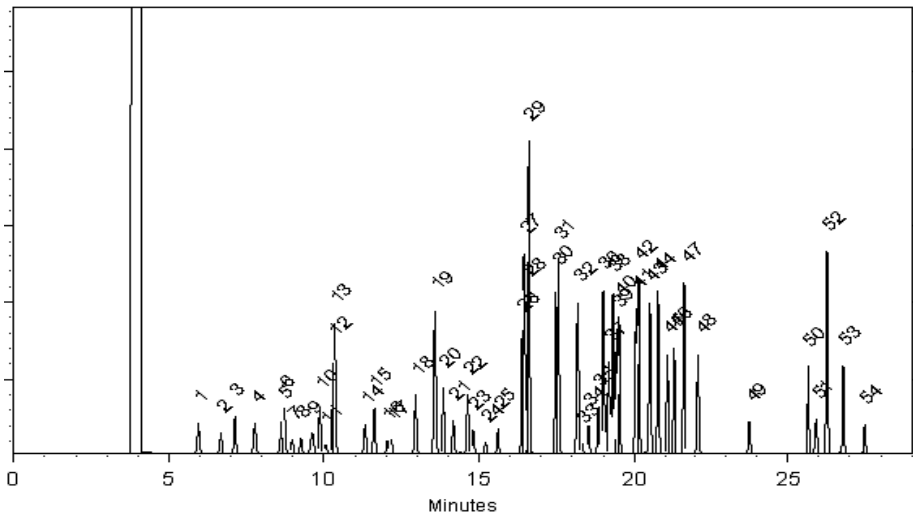
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Bradley Meyer - Mix Technician

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

Alexis Shelow - Operations Tech I

Date Passed: 30-Apr-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX1SEC_00036

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom VOC MegaMix®.SEC #1 Standard

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

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

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

Ship: Ambient

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

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

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

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

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

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

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

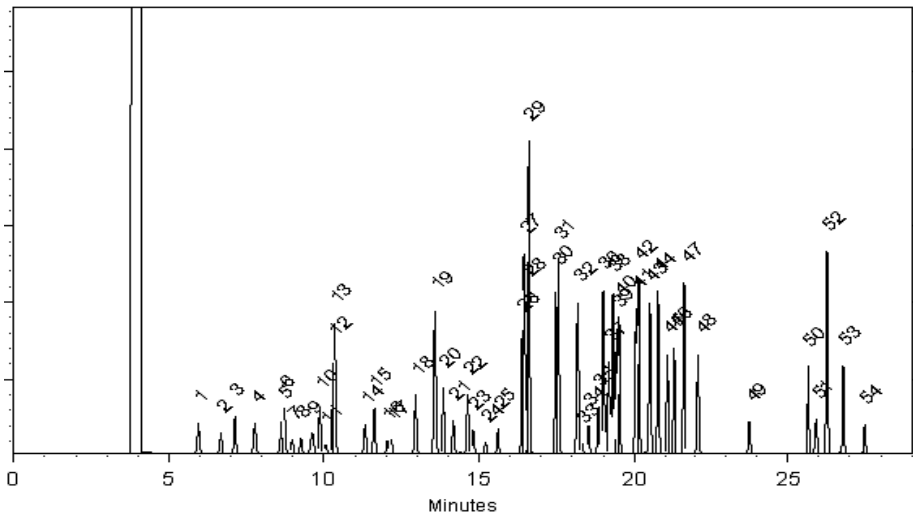
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Bradley Meyer - Mix Technician

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

Alexis Shelow - Operations Tech I

Date Passed: 30-Apr-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_M_MIX2SEC_00014

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)

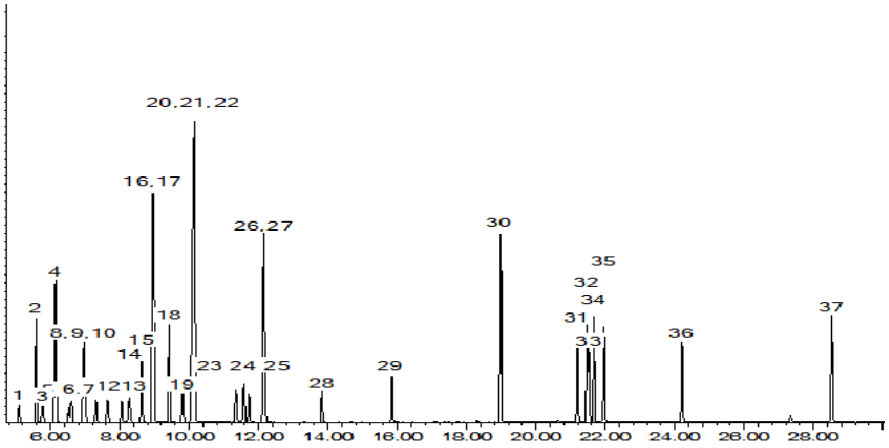
Carrier Gas:
helium-constant pressure 30 psi

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_00028

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)

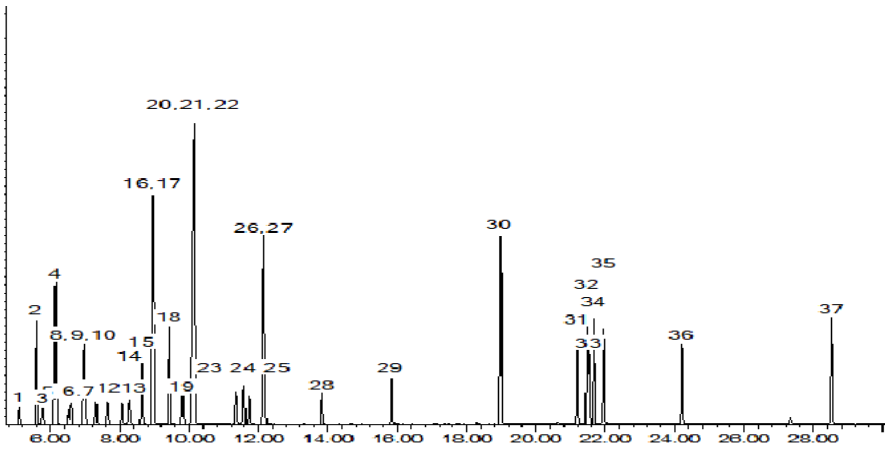
Carrier Gas:
helium-constant pressure 30 psi

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_00037

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)

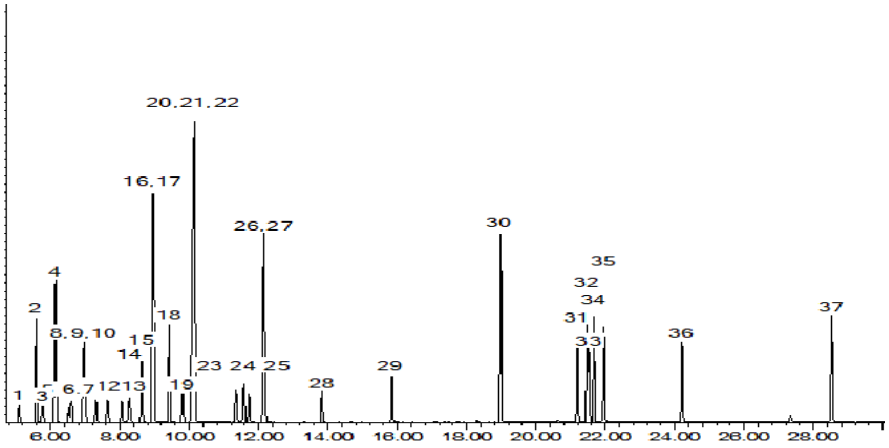
Carrier Gas:
helium-constant pressure 30 psi

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_MegaMIX#1_00011

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)

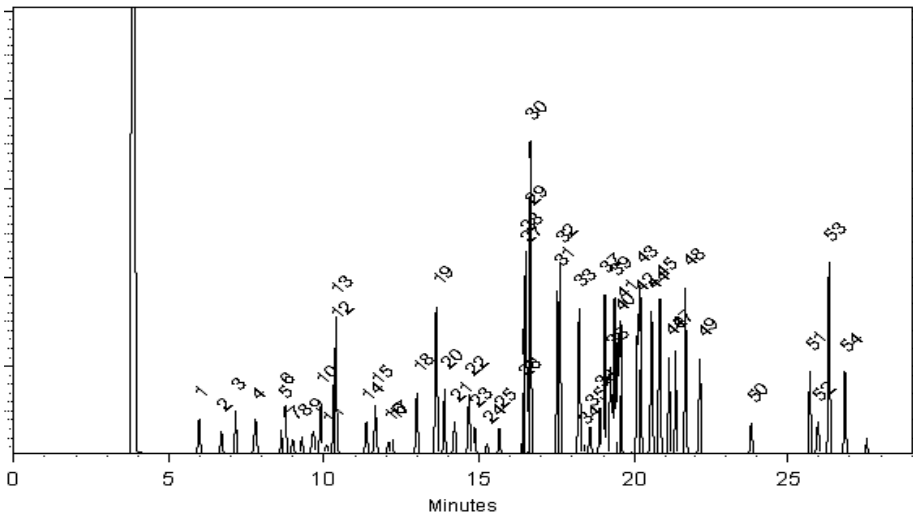
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_00015

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)

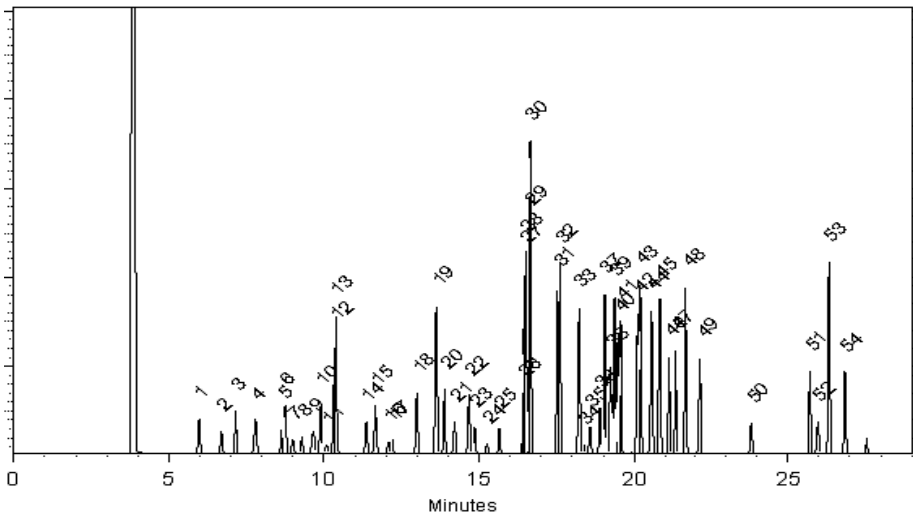
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_00033

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)

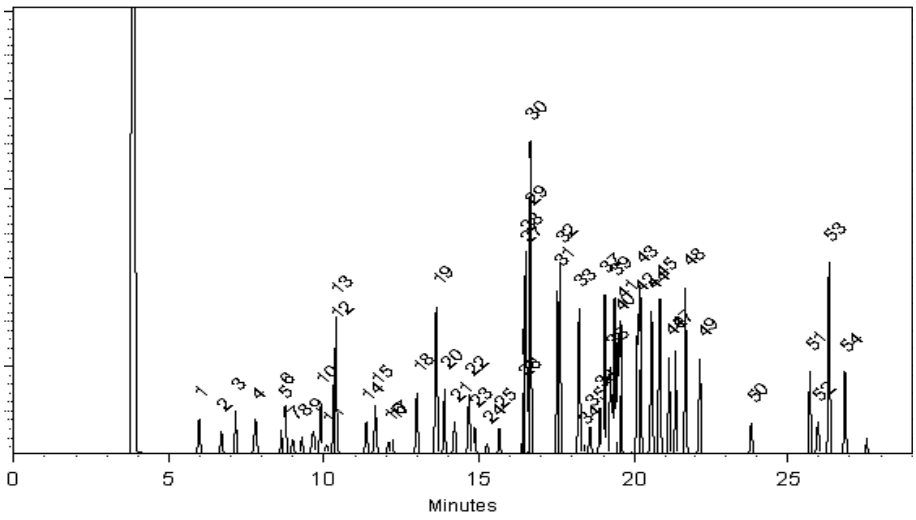
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_00011

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577487 **Lot No.:** A0172089

Description : Custom VOC MegaMix® #2 Standard

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

X8
5/12/21

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	n-Pentane (C5)	5,015.5 µg/mL	+/- 31.9907 µg/mL	Gravimetric
	CAS # 109-66-0 (Lot SHBM2439)		+/- 248.4545 µg/mL	Unstressed
	Purity 99%		+/- 254.6155 µg/mL	Stressed
2	2-Propanol (isopropanol)	25,058.5 µg/mL	+/- 146.7230 µg/mL	Gravimetric
	CAS # 67-63-0 (Lot SHBM4333)		+/- 1,239.7116 µg/mL	Unstressed
	Purity 99%		+/- 1,270.5322 µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	5,011.5 µg/mL	+/- 31.9652 µg/mL	Gravimetric
	CAS # 76-13-1 (Lot 00016133)		+/- 248.2564 µg/mL	Unstressed
	Purity 99%		+/- 254.4124 µg/mL	Stressed
4	tert-Butanol (TBA)	25,047.5 µg/mL	+/- 146.6586 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot SHBM7694)		+/- 1,239.1674 µg/mL	Unstressed
	Purity 99%		+/- 1,269.9744 µg/mL	Stressed
5	Methyl acetate	5,006.8 µg/mL	+/- 31.9354 µg/mL	Gravimetric
	CAS # 79-20-9 (Lot SHBK5436)		+/- 248.0252 µg/mL	Unstressed
	Purity 99%		+/- 254.1755 µg/mL	Stressed
6	Iodomethane (methyl iodide)	5,011.2 µg/mL	+/- 31.9631 µg/mL	Gravimetric
	CAS # 74-88-4 (Lot RD210503)		+/- 248.2399 µg/mL	Unstressed
	Purity 99%		+/- 254.3955 µg/mL	Stressed
7	Allyl chloride (3-chloropropene)	5,007.0 µg/mL	+/- 31.9365 µg/mL	Gravimetric
	CAS # 107-05-1 (Lot RD210402)		+/- 248.0335 µg/mL	Unstressed
	Purity 99%		+/- 254.1839 µg/mL	Stressed

8	Carbon disulfide		5,014.7	µg/mL	+/-	31.9854	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot N28F701)			+/-	248.4132	µg/mL	Unstressed
	Purity 99%				+/-	254.5731	µg/mL	Stressed
9	Acrylonitrile		12,548.0	µg/mL	+/-	73.4713	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot M25F024)			+/-	620.7834	µg/mL	Unstressed
	Purity 99%				+/-	636.2168	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		5,010.0	µg/mL	+/-	31.9556	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBM3541)			+/-	248.1821	µg/mL	Unstressed
	Purity 99%				+/-	254.3362	µg/mL	Stressed
11	n-Hexane (C6)		5,009.3	µg/mL	+/-	31.9514	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBL9879)			+/-	248.1490	µg/mL	Unstressed
	Purity 99%				+/-	254.3024	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		5,015.0	µg/mL	+/-	31.9875	µg/mL	Gravimetric
	CAS # 108-20-3	(Lot SHBH1927V)			+/-	248.4298	µg/mL	Unstressed
	Purity 99%				+/-	254.5901	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		5,015.0	µg/mL	+/-	31.9875	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210413JLM)			+/-	248.4298	µg/mL	Unstressed
	Purity 99%				+/-	254.5901	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		5,011.5	µg/mL	+/-	31.9652	µg/mL	Gravimetric
	CAS # 637-92-3	(Lot MKCM3774)			+/-	248.2564	µg/mL	Unstressed
	Purity 99%				+/-	254.4124	µg/mL	Stressed
15	Propionitrile		25,085.0	µg/mL	+/-	146.8782	µg/mL	Gravimetric
	CAS # 107-12-0	(Lot BCBW0865)			+/-	1,241.0227	µg/mL	Unstressed
	Purity 99%				+/-	1,271.8758	µg/mL	Stressed
16	Methacrylonitrile		12,528.0	µg/mL	+/-	73.3542	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012014)			+/-	619.7940	µg/mL	Unstressed
	Purity 99%				+/-	635.2027	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,555.0	µg/mL	+/-	366.2544	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBM4836)			+/-	3,094.7625	µg/mL	Unstressed
	Purity 99%				+/-	3,171.7016	µg/mL	Stressed
18	Tetrahydrofuran		25,050.5	µg/mL	+/-	146.6762	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBM0434)			+/-	1,239.3159	µg/mL	Unstressed
	Purity 99%				+/-	1,270.1266	µg/mL	Stressed
19	Cyclohexane		5,017.5	µg/mL	+/-	32.0035	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKCF5831)			+/-	248.5536	µg/mL	Unstressed
	Purity 99%				+/-	254.7170	µg/mL	Stressed
20	1-Butanol		62,574.0	µg/mL	+/-	366.3656	µg/mL	Gravimetric
	CAS # 71-36-3	(Lot SHBM5061)			+/-	3,095.7025	µg/mL	Unstressed
	Purity 99%				+/-	3,172.6650	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		5,012.5	µg/mL	+/-	31.9716	µg/mL	Gravimetric
	CAS # 994-05-8	(Lot HMBG7745V)			+/-	248.3059	µg/mL	Unstressed
	Purity 99%				+/-	254.4632	µg/mL	Stressed
22	n-Heptane (C7)		5,012.5	µg/mL	+/-	31.9716	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SHBL9221)			+/-	248.3059	µg/mL	Unstressed
	Purity 99%				+/-	254.4632	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		5,012.7	µg/mL	+/-	31.9726	µg/mL	Gravimetric
	CAS # 919-94-8	(Lot 76U3A)			+/-	248.3142	µg/mL	Unstressed
	Purity 99%				+/-	254.4716	µg/mL	Stressed

24	Methylcyclohexane		5,015.2	µg/mL	+/-	31.9886	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBL0078)			+/-	248.4380	µg/mL	Unstressed
	Purity 99%				+/-	254.5985	µg/mL	Stressed
25	Methyl methacrylate		5,016.5	µg/mL	+/-	31.9971	µg/mL	Gravimetric
	CAS # 80-62-6	(Lot MKCN3027)			+/-	248.5041	µg/mL	Unstressed
	Purity 99%				+/-	254.6662	µg/mL	Stressed
26	1,4-Dioxane		62,582.5	µg/mL	+/-	366.4154	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBM5092)			+/-	3,096.1230	µg/mL	Unstressed
	Purity 99%				+/-	3,173.0960	µg/mL	Stressed
27	2-Nitropropane		25,020.2	µg/mL	+/-	146.4987	µg/mL	Gravimetric
	CAS # 79-46-9	(Lot BCCB9352)			+/-	1,237.8158	µg/mL	Unstressed
	Purity 97%				+/-	1,268.5893	µg/mL	Stressed
28	1-Chlorohexane		5,012.5	µg/mL	+/-	31.9718	µg/mL	Gravimetric
	CAS # 544-10-5	(Lot BCBS3368V)			+/-	248.3077	µg/mL	Unstressed
	Purity 98%				+/-	254.4650	µg/mL	Stressed
29	trans-1,4-dichloro-2-butene		12,532.9	µg/mL	+/-	73.3827	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot RD210331)			+/-	620.0352	µg/mL	Unstressed
	Purity 95%				+/-	635.4499	µg/mL	Stressed
30	1,2,3-Trimethylbenzene		5,009.9	µg/mL	+/-	31.9551	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 8776.10-36)			+/-	248.1783	µg/mL	Unstressed
	Purity 98%				+/-	254.3323	µg/mL	Stressed
31	1,3-Diethylbenzene		5,010.6	µg/mL	+/-	31.9593	µg/mL	Gravimetric
	CAS # 141-93-5	(Lot BCBT8967)			+/-	248.2106	µg/mL	Unstressed
	Purity 98%				+/-	254.3655	µg/mL	Stressed
32	Benzyl chloride		5,011.7	µg/mL	+/-	31.9663	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBH2102V)			+/-	248.2646	µg/mL	Unstressed
	Purity 99%				+/-	254.4209	µg/mL	Stressed
33	1,4-Diethylbenzene		5,008.5	µg/mL	+/-	31.9458	µg/mL	Gravimetric
	CAS # 105-05-5	(Lot RLHJK)			+/-	248.1055	µg/mL	Unstressed
	Purity 98%				+/-	254.2577	µg/mL	Stressed
34	1,2-Diethylbenzene		5,010.2	µg/mL	+/-	31.9567	µg/mL	Gravimetric
	CAS # 135-01-3	(Lot ECH2970181)			+/-	248.1903	µg/mL	Unstressed
	Purity 99%				+/-	254.3447	µg/mL	Stressed
35	1,3,5-Trichlorobenzene		5,012.0	µg/mL	+/-	31.9684	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/-	248.2811	µg/mL	Unstressed
	Purity 99%				+/-	254.4378	µg/mL	Stressed
36	2-Methylnaphthalene		5,009.0	µg/mL	+/-	31.9493	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot STBG8884)			+/-	248.1325	µg/mL	Unstressed
	Purity 99%				+/-	254.2855	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)

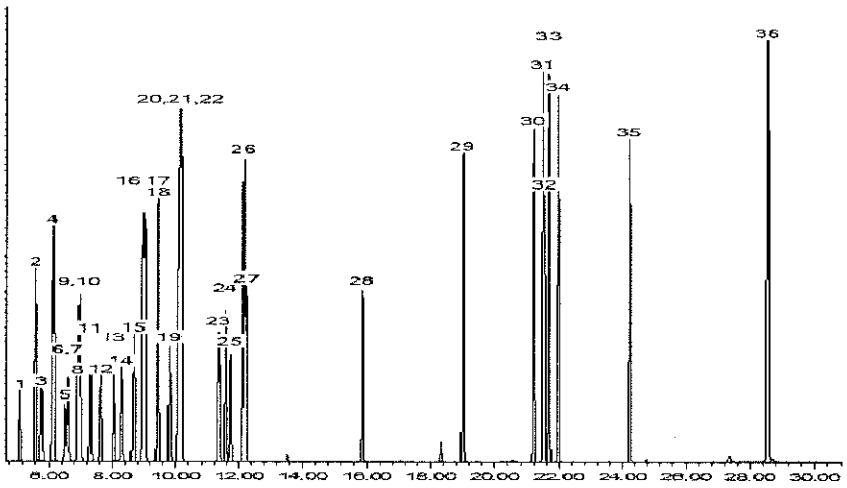
Carrier Gas:
hellum-constant pressure 30 psi

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.

Miranda Kline

Miranda Kline - Operations Technician I

Date Mixed: 05-May-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 11-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMix#2_00015

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577487 **Lot No.:** A0172089

Description : Custom VOC MegaMix® #2 Standard

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

X8 5/12/21

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	n-Pentane (C5)		5,015.5	µg/mL	+/- 31.9907	µg/mL	Gravimetric
	CAS # 109-66-0	(Lot SHBM2439)			+/- 248.4545	µg/mL	Unstressed
	Purity 99%				+/- 254.6155	µg/mL	Stressed
2	2-Propanol (isopropanol)		25,058.5	µg/mL	+/- 146.7230	µg/mL	Gravimetric
	CAS # 67-63-0	(Lot SHBM4333)			+/- 1,239.7116	µg/mL	Unstressed
	Purity 99%				+/- 1,270.5322	µg/mL	Stressed
3	1,1,2-Trichlorotrifluoroethane (CFC-113)		5,011.5	µg/mL	+/- 31.9652	µg/mL	Gravimetric
	CAS # 76-13-1	(Lot 00016133)			+/- 248.2564	µg/mL	Unstressed
	Purity 99%				+/- 254.4124	µg/mL	Stressed
4	tert-Butanol (TBA)		25,047.5	µg/mL	+/- 146.6586	µg/mL	Gravimetric
	CAS # 75-65-0	(Lot SHBM7694)			+/- 1,239.1674	µg/mL	Unstressed
	Purity 99%				+/- 1,269.9744	µg/mL	Stressed
5	Methyl acetate		5,006.8	µg/mL	+/- 31.9354	µg/mL	Gravimetric
	CAS # 79-20-9	(Lot SHBK5436)			+/- 248.0252	µg/mL	Unstressed
	Purity 99%				+/- 254.1755	µg/mL	Stressed
6	Iodomethane (methyl iodide)		5,011.2	µg/mL	+/- 31.9631	µg/mL	Gravimetric
	CAS # 74-88-4	(Lot RD210503)			+/- 248.2399	µg/mL	Unstressed
	Purity 99%				+/- 254.3955	µg/mL	Stressed
7	Allyl chloride (3-chloropropene)		5,007.0	µg/mL	+/- 31.9365	µg/mL	Gravimetric
	CAS # 107-05-1	(Lot RD210402)			+/- 248.0335	µg/mL	Unstressed
	Purity 99%				+/- 254.1839	µg/mL	Stressed

8	Carbon disulfide		5,014.7 µg/mL	+/-	31.9854	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot N28F701)		+/-	248.4132	µg/mL	Unstressed
	Purity 99%			+/-	254.5731	µg/mL	Stressed
9	Acrylonitrile		12,548.0 µg/mL	+/-	73.4713	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot M25F024)		+/-	620.7834	µg/mL	Unstressed
	Purity 99%			+/-	636.2168	µg/mL	Stressed
10	Methyl-tert-butyl ether (MTBE)		5,010.0 µg/mL	+/-	31.9556	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBM3541)		+/-	248.1821	µg/mL	Unstressed
	Purity 99%			+/-	254.3362	µg/mL	Stressed
11	n-Hexane (C6)		5,009.3 µg/mL	+/-	31.9514	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBL9879)		+/-	248.1490	µg/mL	Unstressed
	Purity 99%			+/-	254.3024	µg/mL	Stressed
12	Diisopropyl ether (DIPE)		5,015.0 µg/mL	+/-	31.9875	µg/mL	Gravimetric
	CAS # 108-20-3	(Lot SHBH1927V)		+/-	248.4298	µg/mL	Unstressed
	Purity 99%			+/-	254.5901	µg/mL	Stressed
13	Chloroprene (2-chloro-1,3-butadiene)		5,015.0 µg/mL	+/-	31.9875	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 210413JLM)		+/-	248.4298	µg/mL	Unstressed
	Purity 99%			+/-	254.5901	µg/mL	Stressed
14	Ethyl-tert-butyl ether (ETBE)		5,011.5 µg/mL	+/-	31.9652	µg/mL	Gravimetric
	CAS # 637-92-3	(Lot MKCM3774)		+/-	248.2564	µg/mL	Unstressed
	Purity 99%			+/-	254.4124	µg/mL	Stressed
15	Propionitrile		25,085.0 µg/mL	+/-	146.8782	µg/mL	Gravimetric
	CAS # 107-12-0	(Lot BCBW0865)		+/-	1,241.0227	µg/mL	Unstressed
	Purity 99%			+/-	1,271.8758	µg/mL	Stressed
16	Methacrylonitrile		12,528.0 µg/mL	+/-	73.3542	µg/mL	Gravimetric
	CAS # 126-98-7	(Lot 1012014)		+/-	619.7940	µg/mL	Unstressed
	Purity 99%			+/-	635.2027	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol)		62,555.0 µg/mL	+/-	366.2544	µg/mL	Gravimetric
	CAS # 78-83-1	(Lot SHBM4836)		+/-	3,094.7625	µg/mL	Unstressed
	Purity 99%			+/-	3,171.7016	µg/mL	Stressed
18	Tetrahydrofuran		25,050.5 µg/mL	+/-	146.6762	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBM0434)		+/-	1,239.3159	µg/mL	Unstressed
	Purity 99%			+/-	1,270.1266	µg/mL	Stressed
19	Cyclohexane		5,017.5 µg/mL	+/-	32.0035	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKCF5831)		+/-	248.5536	µg/mL	Unstressed
	Purity 99%			+/-	254.7170	µg/mL	Stressed
20	1-Butanol		62,574.0 µg/mL	+/-	366.3656	µg/mL	Gravimetric
	CAS # 71-36-3	(Lot SHBM5061)		+/-	3,095.7025	µg/mL	Unstressed
	Purity 99%			+/-	3,172.6650	µg/mL	Stressed
21	tert-Amyl methyl ether (TAME)		5,012.5 µg/mL	+/-	31.9716	µg/mL	Gravimetric
	CAS # 994-05-8	(Lot HMBG7745V)		+/-	248.3059	µg/mL	Unstressed
	Purity 99%			+/-	254.4632	µg/mL	Stressed
22	n-Heptane (C7)		5,012.5 µg/mL	+/-	31.9716	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SHBL9221)		+/-	248.3059	µg/mL	Unstressed
	Purity 99%			+/-	254.4632	µg/mL	Stressed
23	tert-Amyl ethyl ether (TAEE)		5,012.7 µg/mL	+/-	31.9726	µg/mL	Gravimetric
	CAS # 919-94-8	(Lot 76U3A)		+/-	248.3142	µg/mL	Unstressed
	Purity 99%			+/-	254.4716	µg/mL	Stressed

24	Methylcyclohexane		5,015.2	µg/mL	+/-	31.9886	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBL0078)			+/-	248.4380	µg/mL	Unstressed
	Purity 99%				+/-	254.5985	µg/mL	Stressed
25	Methyl methacrylate		5,016.5	µg/mL	+/-	31.9971	µg/mL	Gravimetric
	CAS # 80-62-6	(Lot MKCN3027)			+/-	248.5041	µg/mL	Unstressed
	Purity 99%				+/-	254.6662	µg/mL	Stressed
26	1,4-Dioxane		62,582.5	µg/mL	+/-	366.4154	µg/mL	Gravimetric
	CAS # 123-91-1	(Lot SHBM5092)			+/-	3,096.1230	µg/mL	Unstressed
	Purity 99%				+/-	3,173.0960	µg/mL	Stressed
27	2-Nitropropane		25,020.2	µg/mL	+/-	146.4987	µg/mL	Gravimetric
	CAS # 79-46-9	(Lot BCCB9352)			+/-	1,237.8158	µg/mL	Unstressed
	Purity 97%				+/-	1,268.5893	µg/mL	Stressed
28	1-Chlorohexane		5,012.5	µg/mL	+/-	31.9718	µg/mL	Gravimetric
	CAS # 544-10-5	(Lot BCBS3368V)			+/-	248.3077	µg/mL	Unstressed
	Purity 98%				+/-	254.4650	µg/mL	Stressed
29	trans-1,4-dichloro-2-butene		12,532.9	µg/mL	+/-	73.3827	µg/mL	Gravimetric
	CAS # 110-57-6	(Lot RD210331)			+/-	620.0352	µg/mL	Unstressed
	Purity 95%				+/-	635.4499	µg/mL	Stressed
30	1,2,3-Trimethylbenzene		5,009.9	µg/mL	+/-	31.9551	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 8776.10-36)			+/-	248.1783	µg/mL	Unstressed
	Purity 98%				+/-	254.3323	µg/mL	Stressed
31	1,3-Diethylbenzene		5,010.6	µg/mL	+/-	31.9593	µg/mL	Gravimetric
	CAS # 141-93-5	(Lot BCBT8967)			+/-	248.2106	µg/mL	Unstressed
	Purity 98%				+/-	254.3655	µg/mL	Stressed
32	Benzyl chloride		5,011.7	µg/mL	+/-	31.9663	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBH2102V)			+/-	248.2646	µg/mL	Unstressed
	Purity 99%				+/-	254.4209	µg/mL	Stressed
33	1,4-Diethylbenzene		5,008.5	µg/mL	+/-	31.9458	µg/mL	Gravimetric
	CAS # 105-05-5	(Lot RLHJK)			+/-	248.1055	µg/mL	Unstressed
	Purity 98%				+/-	254.2577	µg/mL	Stressed
34	1,2-Diethylbenzene		5,010.2	µg/mL	+/-	31.9567	µg/mL	Gravimetric
	CAS # 135-01-3	(Lot ECH2970181)			+/-	248.1903	µg/mL	Unstressed
	Purity 99%				+/-	254.3447	µg/mL	Stressed
35	1,3,5-Trichlorobenzene		5,012.0	µg/mL	+/-	31.9684	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/-	248.2811	µg/mL	Unstressed
	Purity 99%				+/-	254.4378	µg/mL	Stressed
36	2-Methylnaphthalene		5,009.0	µg/mL	+/-	31.9493	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot STBG8884)			+/-	248.1325	µg/mL	Unstressed
	Purity 99%				+/-	254.2855	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)

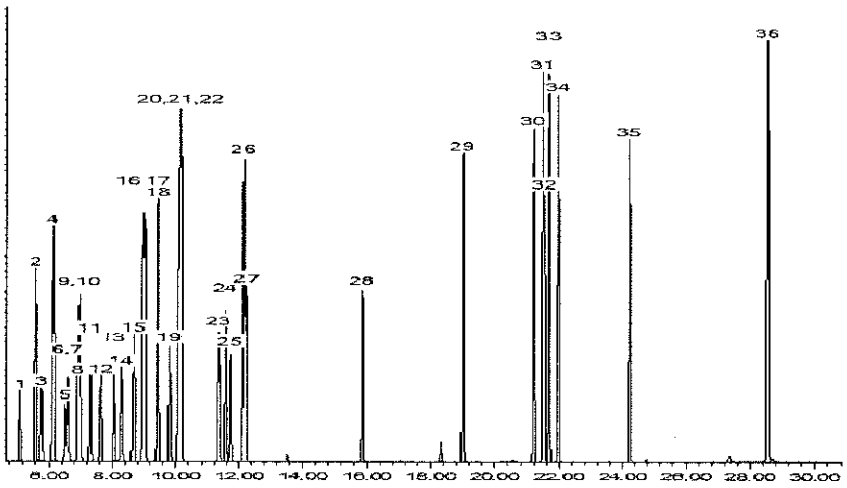
Carrier Gas:
hellum-constant pressure 30 psi

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.

Miranda Kline

Miranda Kline - Operations Technician I

Date Mixed: 05-May-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 11-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_MegaMix#2_00033

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)

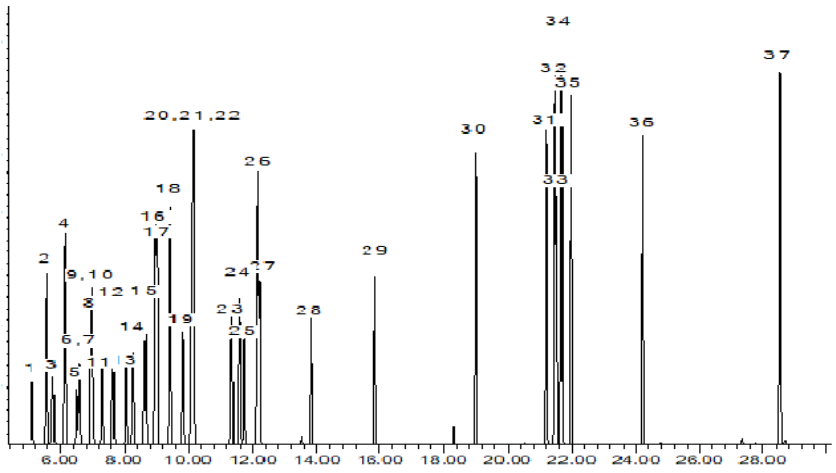
Carrier Gas:
helium-constant pressure 30 psi

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

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Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

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

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,567.5 µg/mL	+/- 73.5855 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot S25F025)		+/- 758.3030 µg/mL	Unstressed
	Purity 99%		+/- 760.1031 µg/mL	Stressed
2	2-Butanone (MEK)	12,553.0 µg/mL	+/- 73.5006 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 757.4280 µg/mL	Unstressed
	Purity 99%		+/- 759.2261 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,563.5 µg/mL	+/- 73.5621 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 758.0616 µg/mL	Unstressed
	Purity 99%		+/- 759.8611 µg/mL	Stressed
4	2-Hexanone	12,527.8 µg/mL	+/- 73.3532 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 755.9093 µg/mL	Unstressed
	Purity 98%		+/- 757.7037 µg/mL	Stressed

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

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

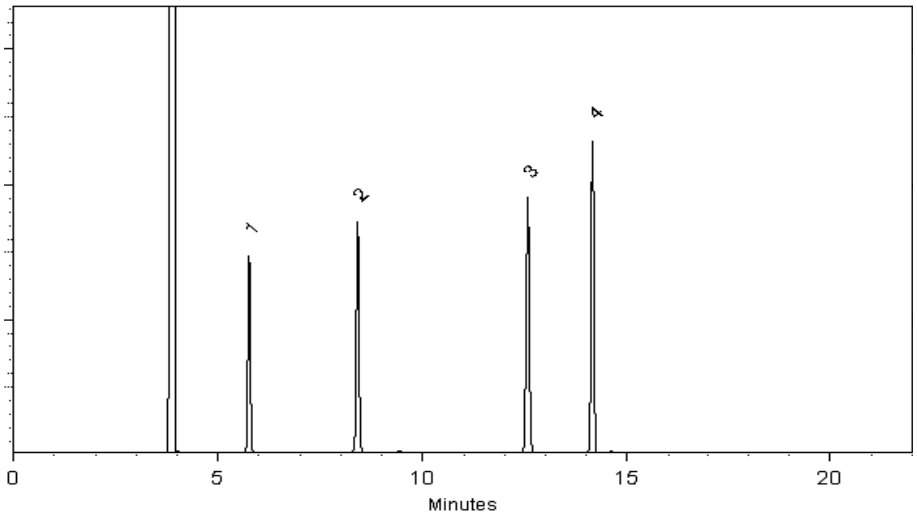
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Cory Meyer - Operations Tech I

Date Mixed: 11-Jan-2021 **Balance:** 1127510105

Marlina Cowan - Operations Tech I

Date Passed: 14-Jan-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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CERTIFIED REFERENCE MATERIAL

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,567.5 µg/mL	+/- 73.5855 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot S25F025)		+/- 758.3030 µg/mL	Unstressed
	Purity 99%		+/- 760.1031 µg/mL	Stressed
2	2-Butanone (MEK)	12,553.0 µg/mL	+/- 73.5006 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 757.4280 µg/mL	Unstressed
	Purity 99%		+/- 759.2261 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,563.5 µg/mL	+/- 73.5621 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 758.0616 µg/mL	Unstressed
	Purity 99%		+/- 759.8611 µg/mL	Stressed
4	2-Hexanone	12,527.8 µg/mL	+/- 73.3532 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 755.9093 µg/mL	Unstressed
	Purity 98%		+/- 757.7037 µg/mL	Stressed

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

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

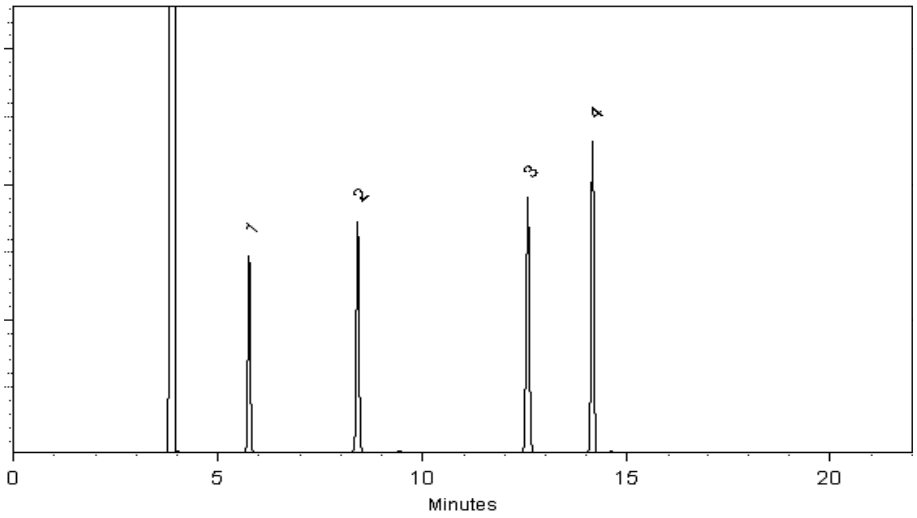
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Cory Meyer - Operations Tech I

Date Mixed: 11-Jan-2021 **Balance:** 1127510105

Marlina Cowan - Operations Tech I

Date Passed: 14-Jan-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_Q_Ketones_00036

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Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

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

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	12,567.5 µg/mL	+/- 73.5855 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot S25F025)		+/- 758.3030 µg/mL	Unstressed
	Purity 99%		+/- 760.1031 µg/mL	Stressed
2	2-Butanone (MEK)	12,553.0 µg/mL	+/- 73.5006 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 757.4280 µg/mL	Unstressed
	Purity 99%		+/- 759.2261 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,563.5 µg/mL	+/- 73.5621 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 758.0616 µg/mL	Unstressed
	Purity 99%		+/- 759.8611 µg/mL	Stressed
4	2-Hexanone	12,527.8 µg/mL	+/- 73.3532 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 755.9093 µg/mL	Unstressed
	Purity 98%		+/- 757.7037 µg/mL	Stressed

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

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

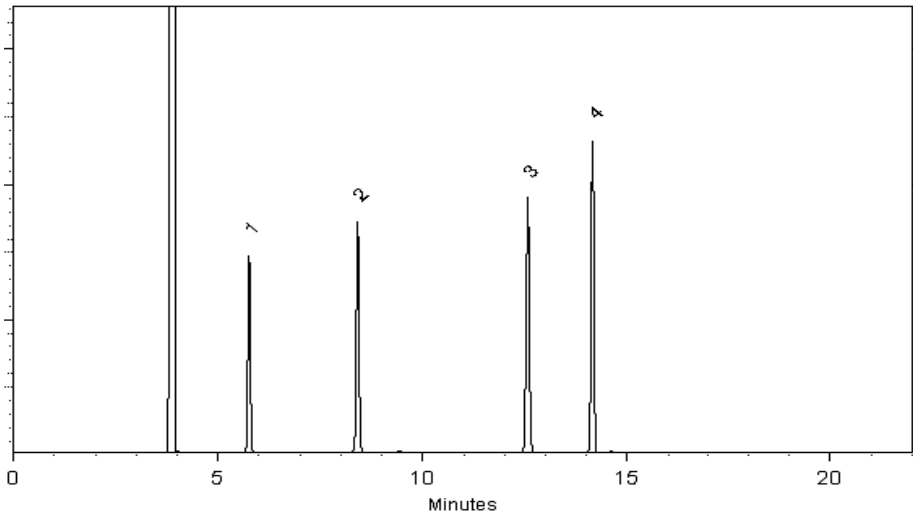
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Cory Meyer - Operations Tech I

Date Mixed: 11-Jan-2021 **Balance:** 1127510105

Marlina Cowan - Operations Tech I

Date Passed: 14-Jan-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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)

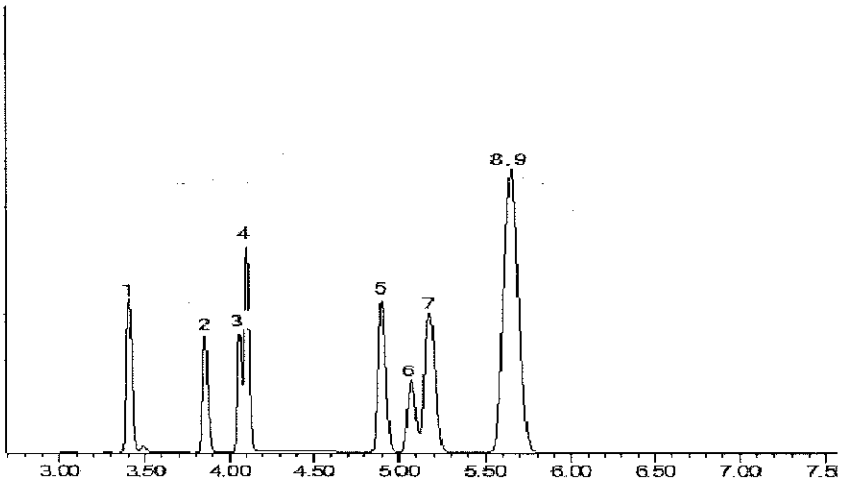
Carrier Gas:
helium-constant flow 2.0 mL/min.

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_00030

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Fax: (814)353-1309

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Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577488.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)

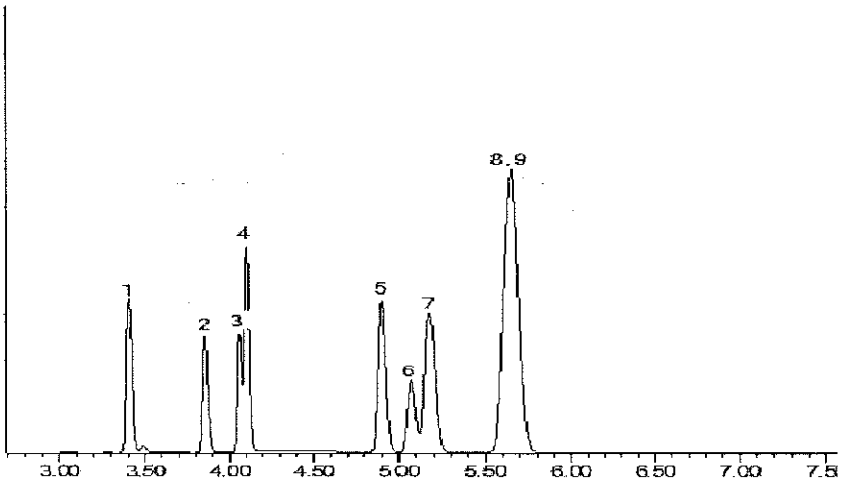
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Manufacturing Notes:

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Reagent

MSV_QC_2K_GAS_00059

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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. : 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
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	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%

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

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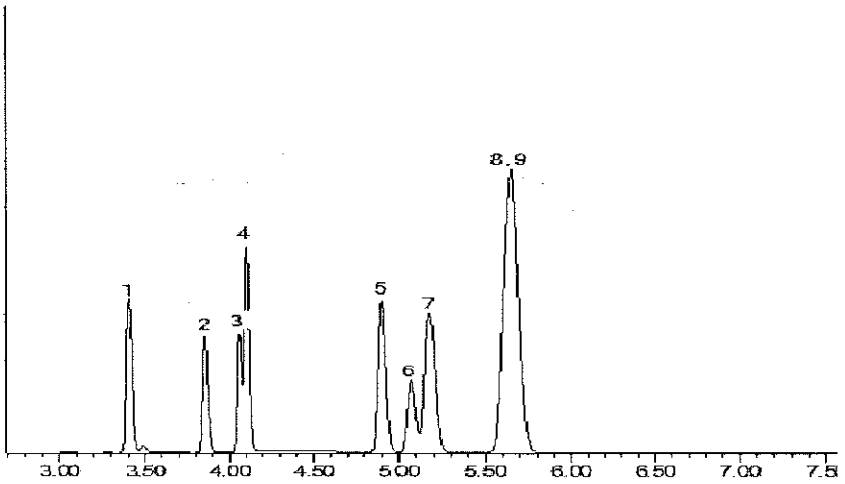
Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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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.
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- Purity of isomeric compounds is reported as the sum of the isomers.
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25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
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0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V#2B_00227

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

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 56734 **Lot No.:** A0171518

Description : Custom V # 2B Standard

Custom V #2B Standard 12,500-125,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : April 30, 2023 **Storage:** 0°C or colder

Ship: Ambient

Elution Order	Compound	CAS #	Percent Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Propanol (isopropanol)	67-63-0	99%	25,038.0 µg/mL	+/- 146.6030 µg/mL
2	tert-Butanol (TBA)	75-65-0	99%	25,047.0 µg/mL	+/- 146.6557 µg/mL
3	Propionitrile	107-12-0	99%	25,015.0 µg/mL	+/- 146.4683 µg/mL
4	Methacrylonitrile	126-98-7	99%	12,515.0 µg/mL	+/- 73.2781 µg/mL
5	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	62,529.0 µg/mL	+/- 366.1210 µg/mL
6	1-Butanol	71-36-3	99%	125,072.0 µg/mL	+/- 732.2863 µg/mL
7	1,4-Dioxane	123-91-1	99%	62,509.0 µg/mL	+/- 366.0039 µg/mL
8	trans-1,4-dichloro-2-butene	110-57-6	95%	12,504.9 µg/mL	+/- 73.2186 µg/mL
Solvent:	P&T Methanol	67-56-1	99%		

Specific Reference Material Notes:

This RM (Reference Material) is not a CRM (Certified Reference Material) due to the 1-butanol concentration exceeding the maximum concentration on Restek's ISO Guide 34 scope of accreditation.

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

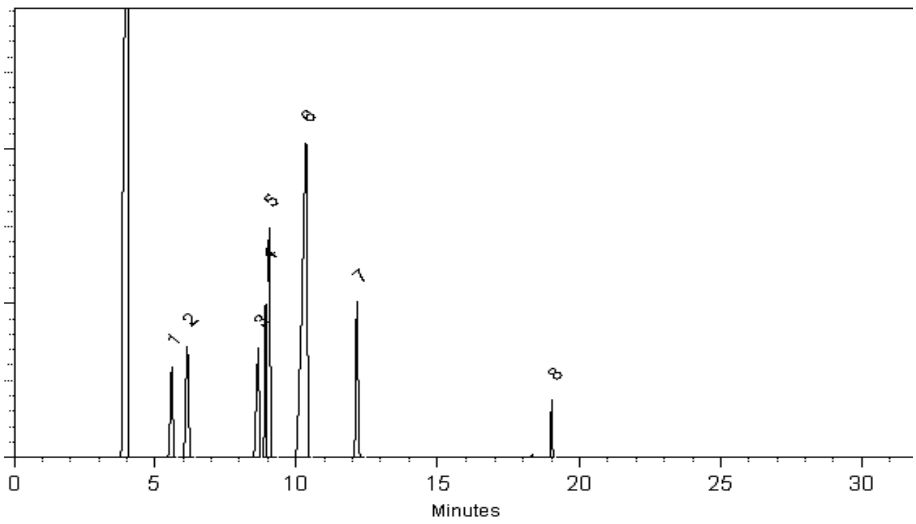
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Erik Strommer - Operations Tech I

Date Mixed: 20-Apr-2021 **Balance:** B707717271

Marlina Cowan - Operations Tech I

Date Passed: 23-Apr-2021

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

General Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Uncertainty Value Notes:

- Uncertainties are determined using data from balances and glassware, raw material purity, and, when significant, equipment tolerances or calibration results.

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V#2B_00231

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

www.restek.com

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 56734 **Lot No.:** A0171518

Description : Custom V # 2B Standard

Custom V #2B Standard 12,500-125,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : April 30, 2023 **Storage:** 0°C or colder

Ship: Ambient

Elution Order	Compound	CAS #	Percent Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Propanol (isopropanol)	67-63-0	99%	25,038.0 µg/mL	+/- 146.6030 µg/mL
2	tert-Butanol (TBA)	75-65-0	99%	25,047.0 µg/mL	+/- 146.6557 µg/mL
3	Propionitrile	107-12-0	99%	25,015.0 µg/mL	+/- 146.4683 µg/mL
4	Methacrylonitrile	126-98-7	99%	12,515.0 µg/mL	+/- 73.2781 µg/mL
5	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	62,529.0 µg/mL	+/- 366.1210 µg/mL
6	1-Butanol	71-36-3	99%	125,072.0 µg/mL	+/- 732.2863 µg/mL
7	1,4-Dioxane	123-91-1	99%	62,509.0 µg/mL	+/- 366.0039 µg/mL
8	trans-1,4-dichloro-2-butene	110-57-6	95%	12,504.9 µg/mL	+/- 73.2186 µg/mL
Solvent:	P&T Methanol	67-56-1	99%		

Specific Reference Material Notes:

This RM (Reference Material) is not a CRM (Certified Reference Material) due to the 1-butanol concentration exceeding the maximum concentration on Restek's ISO Guide 34 scope of accreditation.

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

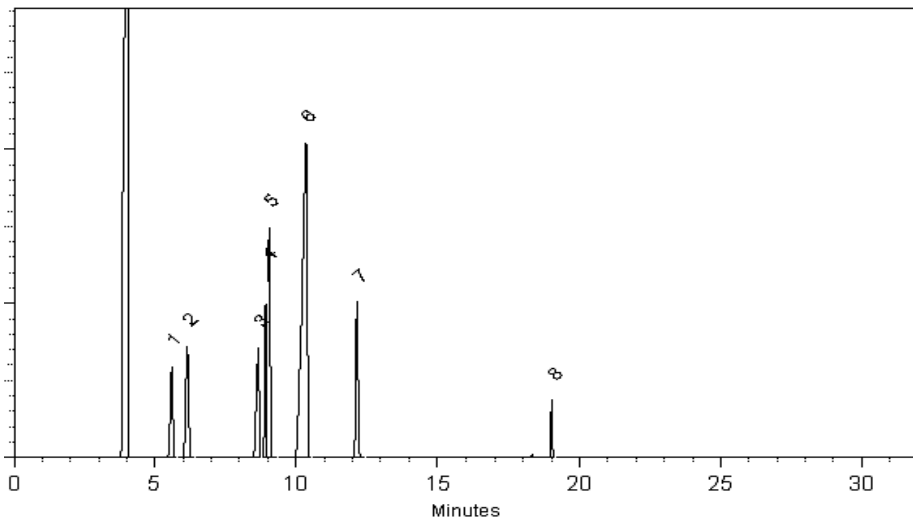
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Erik Strommer - Operations Tech I

Date Mixed: 20-Apr-2021 **Balance:** B707717271

Marlina Cowan - Operations Tech I

Date Passed: 23-Apr-2021

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

General Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Uncertainty Value Notes:

- Uncertainties are determined using data from balances and glassware, raw material purity, and, when significant, equipment tolerances or calibration results.

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_Ketones_00011

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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 **Lot No.:** A0168313

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

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

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

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

Ship: Ambient

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	12,516.4 µg/mL	+/- 73.2863 µg/mL	Gravimetric
	CAS # 67-64-1 (Lot SHBM6699)		+/- 755.2197 µg/mL	Unstressed
	Purity 99%		+/- 757.0124 µg/mL	Stressed
2	2-Butanone (MEK)	12,515.2 µg/mL	+/- 73.2792 µg/mL	Gravimetric
	CAS # 78-93-3 (Lot SHBL6194)		+/- 755.1473 µg/mL	Unstressed
	Purity 99%		+/- 756.9399 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,512.0 µg/mL	+/- 73.2605 µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBM2797)		+/- 754.9542 µg/mL	Unstressed
	Purity 99%		+/- 756.7463 µg/mL	Stressed
4	2-Hexanone	12,504.4 µg/mL	+/- 73.2160 µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKCL1599)		+/- 754.4956 µg/mL	Unstressed
	Purity 99%		+/- 756.2867 µg/mL	Stressed

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

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

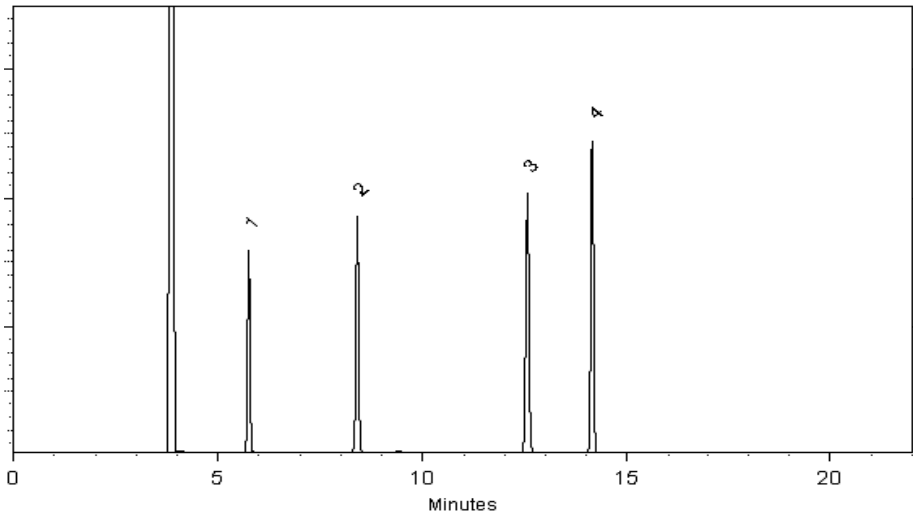
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Cathleen Soltis - Mix Technician

Date Mixed: 20-Jan-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 21-Jan-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_Ketones_00014

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CERTIFIED REFERENCE MATERIAL

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Catalog No. : 569721 **Lot No.:** A0168313

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

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

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

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

Ship: Ambient

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	12,516.4 µg/mL	+/- 73.2863 µg/mL	Gravimetric
	CAS # 67-64-1 (Lot SHBM6699)		+/- 755.2197 µg/mL	Unstressed
	Purity 99%		+/- 757.0124 µg/mL	Stressed
2	2-Butanone (MEK)	12,515.2 µg/mL	+/- 73.2792 µg/mL	Gravimetric
	CAS # 78-93-3 (Lot SHBL6194)		+/- 755.1473 µg/mL	Unstressed
	Purity 99%		+/- 756.9399 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,512.0 µg/mL	+/- 73.2605 µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBM2797)		+/- 754.9542 µg/mL	Unstressed
	Purity 99%		+/- 756.7463 µg/mL	Stressed
4	2-Hexanone	12,504.4 µg/mL	+/- 73.2160 µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKCL1599)		+/- 754.4956 µg/mL	Unstressed
	Purity 99%		+/- 756.2867 µg/mL	Stressed

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

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

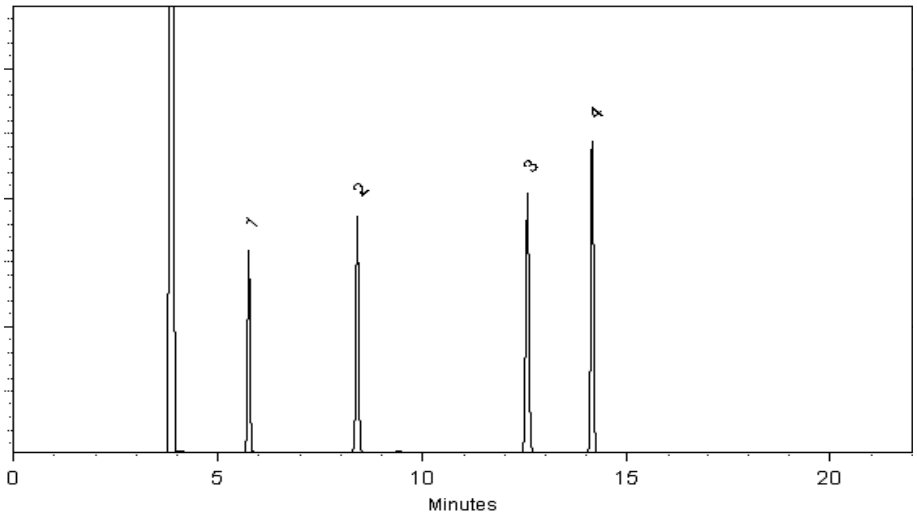
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Cathleen Soltis - Mix Technician

Date Mixed: 20-Jan-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 21-Jan-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_Ketones_00033

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Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

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Catalog No. : 569721 **Lot No.:** A0168313

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

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

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

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

Ship: Ambient

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	12,516.4 µg/mL	+/- 73.2863 µg/mL	Gravimetric
	CAS # 67-64-1 (Lot SHBM6699)		+/- 755.2197 µg/mL	Unstressed
	Purity 99%		+/- 757.0124 µg/mL	Stressed
2	2-Butanone (MEK)	12,515.2 µg/mL	+/- 73.2792 µg/mL	Gravimetric
	CAS # 78-93-3 (Lot SHBL6194)		+/- 755.1473 µg/mL	Unstressed
	Purity 99%		+/- 756.9399 µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	12,512.0 µg/mL	+/- 73.2605 µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBM2797)		+/- 754.9542 µg/mL	Unstressed
	Purity 99%		+/- 756.7463 µg/mL	Stressed
4	2-Hexanone	12,504.4 µg/mL	+/- 73.2160 µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKCL1599)		+/- 754.4956 µg/mL	Unstressed
	Purity 99%		+/- 756.2867 µg/mL	Stressed

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

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

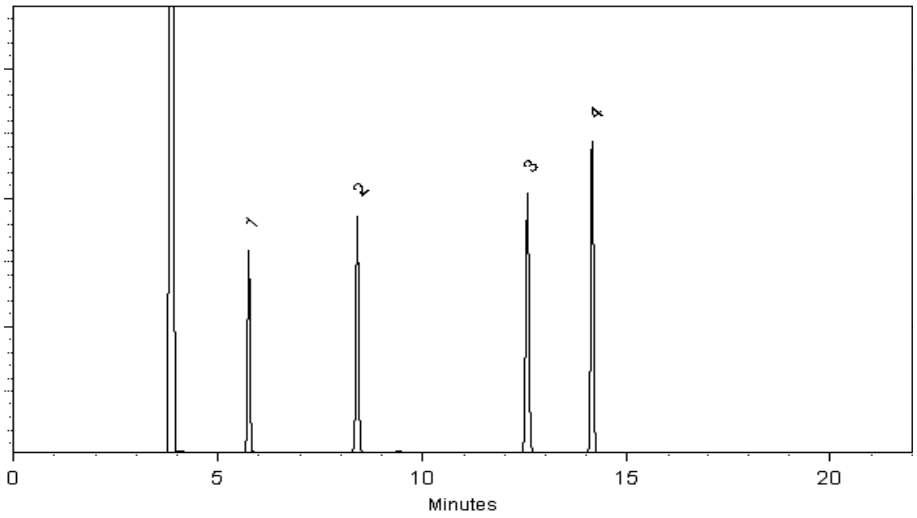
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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Cathleen Soltis - Mix Technician

Date Mixed: 20-Jan-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 21-Jan-2021

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

General Certified Reference Material Notes

Expiration Notes:

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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:

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Handling Notes:

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Reagent

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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)

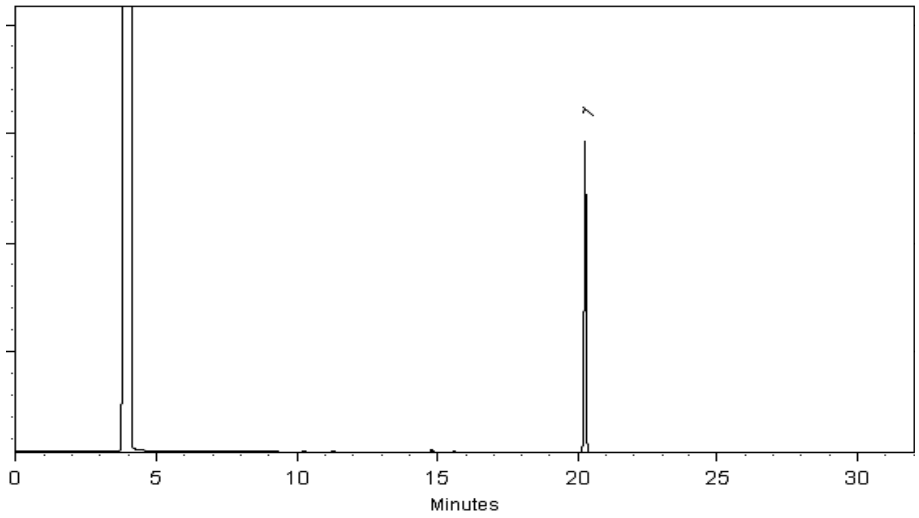
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_00005

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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. : 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)

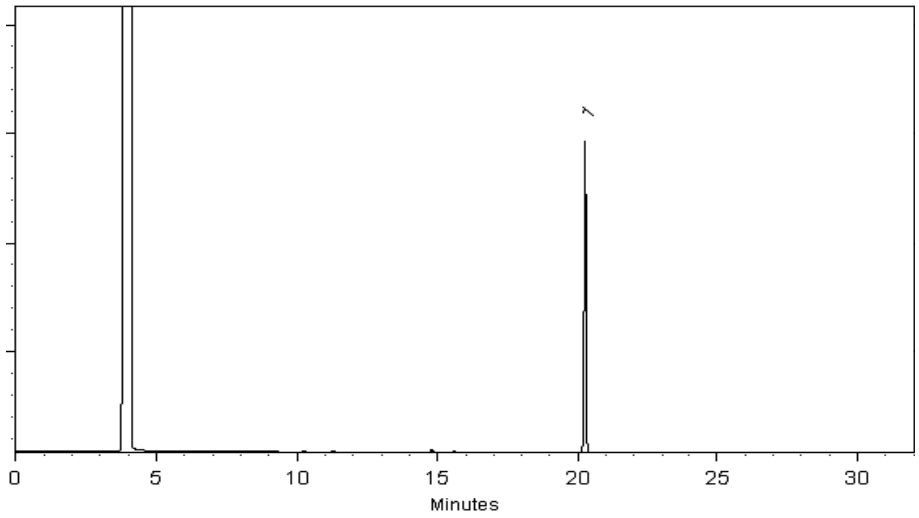
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.
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0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

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

Manufacturing Notes:

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

Handling Notes:

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

Method 8260D Low Level

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-64660-1

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	410-64660-1	101	102	101	100
HD-COD-SW-7-0/1-0	410-64660-2	102	103	101	100
HD-COD-SW-8-0/1-0	410-64660-3	101	101	101	101
HD-COD-SW-9-0/1-0	410-64660-4	101	105	101	100
HD-COD-SW-13-0/1-0	410-64660-5	100	101	101	99
HD-COD-SW-15-0/1-0	410-64660-6	101	101	101	101
HD-COD-SW-16-0/1-0	410-64660-7	100	100	101	99
HD-COD-SW-17-0/1-0	410-64660-8	101	102	101	99
HD-COD-SW-17-0/1-0 DL	410-64660-8 DL	103	95	97	99
HD-COD-SW-26-0/1-0	410-64660-9	100	103	100	99
HD-COD-SW-27-0/1-0	410-64660-10	101	102	101	100
HD-COD-SW-28-0/1-0	410-64660-11	101	104	100	99
HD-COD-SW-29-0/1-0	410-64660-12	102	104	100	99
HD-QC1-0/1-1	410-64660-13	101	103	100	100
HD-QC1-0/1-1 DL	410-64660-13 DL	101	99	97	99
HD-QC1-0/1-2	410-64660-14	101	104	101	100
	MB 410-200572/8	100	100	101	100
	MB 410-201082/11	102	104	101	100
	MB 410-201490/8	101	97	98	99
	LCS 410-200572/4	100	101	102	101
	LCS 410-201082/5	103	103	100	99
	LCS 410-201490/4	100	96	99	103
	LCSD 410-200572/5	101	101	102	100
	LCSD 410-201082/6	100	102	101	100
	LCSD 410-201490/5	101	95	100	103
HD-COD-SW-15-0/1-0 MS MS	410-64660-6 MS	101	101	101	100
HD-COD-SW-15-0/1-0 MSD MSD	410-64660-6 MSD	100	100	102	100

	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 Env, LLC Job No.: 410-64660-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ID02X03.D

Lab ID: LCS 410-200572/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.55	111	71-134	
1,1,1-Trichloroethane	5.00	5.59	112	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.62	112	75-123	
1,1,2-Trichloroethane	5.00	5.80	116	80-120	
1,1-Dichloroethane	5.00	5.45	109	74-120	
1,1-Dichloroethene	5.00	6.00	120	80-131	
1,2-Dibromoethane (EDB)	5.00	5.51	110	80-120	
1,2-Dichloroethane	5.00	5.09	102	69-122	
1,2-Dichloropropane	5.00	5.71	114	80-120	
2-Butanone (MEK)	62.5	80.4	129	59-141	
2-Hexanone	62.5	90.7	145	52-140	*+
4-Methyl-2-pentanone (MIBK)	62.5	87.4	140	55-140	
Acetone	62.5	60.7	97	60-146	
Benzene	5.00	5.69	114	80-120	
Bromochloromethane	5.00	5.71	114	80-120	
Bromodichloromethane	5.00	5.69	114	73-124	
Bromoform	5.00	5.45	109	49-144	
Bromomethane	5.00	4.88	98	60-136	
Carbon disulfide	5.00	5.72	114	67-130	
Carbon tetrachloride	5.00	5.64	113	64-141	
Chlorobenzene	5.00	5.54	111	80-120	
Chloroethane	5.00	4.98	100	63-120	
Chloroform	5.00	5.57	111	80-120	
Chloromethane	5.00	4.95	99	56-124	
cis-1,2-Dichloroethene	5.00	5.78	116	80-122	
cis-1,3-Dichloropropene	5.00	5.45	109	67-121	
Dibromochloromethane	5.00	5.46	109	64-138	
Ethylbenzene	5.00	5.62	112	80-120	
Methyl tert-butyl ether	5.00	5.34	107	69-120	
Methylene Chloride	5.00	5.67	113	80-120	
Styrene	5.00	5.64	113	80-120	
Tetrachloroethene	5.00	5.66	113	80-120	
Toluene	5.00	5.54	111	80-120	
trans-1,2-Dichloroethene	5.00	5.62	112	80-122	
trans-1,3-Dichloropropene	5.00	5.51	110	61-129	
Trichloroethene	5.00	5.63	113	80-120	
Vinyl chloride	5.00	4.91	98	60-125	
Xylenes, Total	15.0	16.8	112	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 Env, LLC Job No.: 410-64660-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ID03X04.D

Lab ID: LCS 410-201082/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.37	107	71-134	
1,1,1-Trichloroethane	5.00	5.57	111	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.57	111	75-123	
1,1,2-Trichloroethane	5.00	5.58	112	80-120	
1,1-Dichloroethane	5.00	5.50	110	74-120	
1,1-Dichloroethene	5.00	5.99	120	80-131	
1,2-Dibromoethane (EDB)	5.00	5.47	109	80-120	
1,2-Dichloroethane	5.00	5.27	105	69-122	
1,2-Dichloropropane	5.00	5.80	116	80-120	
2-Butanone (MEK)	62.5	64.2	103	59-141	
2-Hexanone	62.5	66.1	106	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	63.6	102	55-140	
Acetone	62.5	56.3	90	60-146	
Benzene	5.00	5.73	115	80-120	
Bromochloromethane	5.00	5.91	118	80-120	
Bromodichloromethane	5.00	5.75	115	73-124	
Bromoform	5.00	5.41	108	49-144	
Bromomethane	5.00	4.62	92	60-136	
Carbon disulfide	5.00	5.65	113	67-130	
Carbon tetrachloride	5.00	5.53	111	64-141	
Chlorobenzene	5.00	5.38	108	80-120	
Chloroethane	5.00	4.71	94	63-120	
Chloroform	5.00	5.62	112	80-120	
Chloromethane	5.00	4.72	94	56-124	
cis-1,2-Dichloroethene	5.00	5.85	117	80-122	
cis-1,3-Dichloropropene	5.00	5.55	111	67-121	
Dibromochloromethane	5.00	5.37	107	64-138	
Ethylbenzene	5.00	5.43	109	80-120	
Methyl tert-butyl ether	5.00	5.55	111	69-120	
Methylene Chloride	5.00	5.75	115	80-120	
Styrene	5.00	5.39	108	80-120	
Tetrachloroethene	5.00	5.47	109	80-120	
Toluene	5.00	5.44	109	80-120	
trans-1,2-Dichloroethene	5.00	5.64	113	80-122	
trans-1,3-Dichloropropene	5.00	5.45	109	61-129	
Trichloroethene	5.00	5.63	113	80-120	
Vinyl chloride	5.00	4.66	93	60-125	
Xylenes, Total	15.0	16.2	108	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 Env, LLC Job No.: 410-64660-1

SDG No.:

Matrix: Water Level: Low Lab File ID: GD04X03.D

Lab ID: LCS 410-201490/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	4.73	95	71-134	
1,1,1-Trichloroethane	5.00	4.69	94	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.08	102	75-123	
1,1,2-Trichloroethane	5.00	4.80	96	80-120	
1,1-Dichloroethane	5.00	4.26	85	74-120	
1,1-Dichloroethene	5.00	4.61	92	80-131	
1,2-Dibromoethane (EDB)	5.00	4.73	95	80-120	
1,2-Dichloroethane	5.00	4.54	91	69-122	
1,2-Dichloropropane	5.00	4.35	87	80-120	
2-Butanone (MEK)	62.5	55.8	89	59-141	
2-Hexanone	62.5	57.9	93	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	54.4	87	55-140	
Acetone	62.5	48.6	78	60-146	
Benzene	5.00	4.54	91	80-120	
Bromochloromethane	5.00	4.62	92	80-120	
Bromodichloromethane	5.00	4.64	93	73-124	
Bromoform	5.00	4.19	84	49-144	
Bromomethane	5.00	4.55	91	60-136	
Carbon disulfide	5.00	4.53	91	67-130	
Carbon tetrachloride	5.00	4.61	92	64-141	
Chlorobenzene	5.00	4.69	94	80-120	
Chloroethane	5.00	4.50	90	63-120	
Chloroform	5.00	4.67	93	80-120	
Chloromethane	5.00	4.65	93	56-124	
cis-1,2-Dichloroethene	5.00	4.68	94	80-122	
cis-1,3-Dichloropropene	5.00	4.39	88	67-121	
Dibromochloromethane	5.00	4.55	91	64-138	
Ethylbenzene	5.00	4.68	94	80-120	
Methyl tert-butyl ether	5.00	4.58	92	69-120	
Methylene Chloride	5.00	4.56	91	80-120	
Styrene	5.00	4.80	96	80-120	
Tetrachloroethene	5.00	4.36	87	80-120	
Toluene	5.00	4.65	93	80-120	
trans-1,2-Dichloroethene	5.00	4.63	93	80-122	
trans-1,3-Dichloropropene	5.00	4.81	96	61-129	
Trichloroethene	5.00	4.63	93	80-120	
Vinyl chloride	5.00	4.38	88	60-125	
Xylenes, Total	15.0	14.1	94	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-64660-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ID02X04.D

Lab ID: LCSD 410-200572/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.52	110	0	30	71-134	
1,1,1-Trichloroethane	5.00	5.51	110	1	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.73	115	2	30	75-123	
1,1,2-Trichloroethane	5.00	5.64	113	3	30	80-120	
1,1-Dichloroethane	5.00	5.40	108	1	30	74-120	
1,1-Dichloroethene	5.00	5.97	119	1	30	80-131	
1,2-Dibromoethane (EDB)	5.00	5.52	110	0	30	80-120	
1,2-Dichloroethane	5.00	5.23	105	3	30	69-122	
1,2-Dichloropropane	5.00	5.72	114	0	30	80-120	
2-Butanone (MEK)	62.5	76.2	122	5	30	59-141	
2-Hexanone	62.5	89.7	143	1	30	52-140	*+
4-Methyl-2-pentanone (MIBK)	62.5	85.8	137	2	30	55-140	
Acetone	62.5	57.7	92	5	30	60-146	
Benzene	5.00	5.64	113	1	30	80-120	
Bromochloromethane	5.00	5.65	113	1	30	80-120	
Bromodichloromethane	5.00	5.63	113	1	30	73-124	
Bromoform	5.00	5.40	108	1	30	49-144	
Bromomethane	5.00	4.79	96	2	30	60-136	
Carbon disulfide	5.00	5.61	112	2	30	67-130	
Carbon tetrachloride	5.00	5.55	111	2	30	64-141	
Chlorobenzene	5.00	5.51	110	1	30	80-120	
Chloroethane	5.00	4.87	97	2	30	63-120	
Chloroform	5.00	5.52	110	1	30	80-120	
Chloromethane	5.00	4.83	97	2	30	56-124	
cis-1,2-Dichloroethene	5.00	5.80	116	0	30	80-122	
cis-1,3-Dichloropropene	5.00	5.45	109	0	30	67-121	
Dibromochloromethane	5.00	5.36	107	2	30	64-138	
Ethylbenzene	5.00	5.54	111	2	30	80-120	
Methyl tert-butyl ether	5.00	5.38	108	1	30	69-120	
Methylene Chloride	5.00	5.62	112	1	30	80-120	
Styrene	5.00	5.52	110	2	30	80-120	
Tetrachloroethene	5.00	5.58	112	1	30	80-120	
Toluene	5.00	5.45	109	2	30	80-120	
trans-1,2-Dichloroethene	5.00	5.60	112	0	30	80-122	
trans-1,3-Dichloropropene	5.00	5.51	110	0	30	61-129	
Trichloroethene	5.00	5.58	112	1	30	80-120	
Vinyl chloride	5.00	5.01	100	2	30	60-125	
Xylenes, Total	15.0	16.5	110	1	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-64660-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ID03X05.D

Lab ID: LCSD 410-201082/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	5.25	105	2	30	71-134	
1,1,1-Trichloroethane	5.00	5.46	109	2	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.50	110	1	30	75-123	
1,1,2-Trichloroethane	5.00	5.46	109	2	30	80-120	
1,1-Dichloroethane	5.00	5.42	108	1	30	74-120	
1,1-Dichloroethene	5.00	5.84	117	2	30	80-131	
1,2-Dibromoethane (EDB)	5.00	5.32	106	3	30	80-120	
1,2-Dichloroethane	5.00	5.13	103	3	30	69-122	
1,2-Dichloropropane	5.00	5.64	113	3	30	80-120	
2-Butanone (MEK)	62.5	66.3	106	3	30	59-141	
2-Hexanone	62.5	68.7	110	4	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	66.0	106	4	30	55-140	
Acetone	62.5	56.3	90	0	30	60-146	
Benzene	5.00	5.65	113	1	30	80-120	
Bromochloromethane	5.00	5.69	114	4	30	80-120	
Bromodichloromethane	5.00	5.54	111	4	30	73-124	
Bromoform	5.00	5.06	101	7	30	49-144	
Bromomethane	5.00	4.51	90	2	30	60-136	
Carbon disulfide	5.00	5.54	111	2	30	67-130	
Carbon tetrachloride	5.00	5.49	110	1	30	64-141	
Chlorobenzene	5.00	5.37	107	0	30	80-120	
Chloroethane	5.00	4.70	94	0	30	63-120	
Chloroform	5.00	5.50	110	2	30	80-120	
Chloromethane	5.00	4.61	92	2	30	56-124	
cis-1,2-Dichloroethene	5.00	5.71	114	2	30	80-122	
cis-1,3-Dichloropropene	5.00	5.38	108	3	30	67-121	
Dibromochloromethane	5.00	5.20	104	3	30	64-138	
Ethylbenzene	5.00	5.40	108	1	30	80-120	
Methyl tert-butyl ether	5.00	5.30	106	4	30	69-120	
Methylene Chloride	5.00	5.64	113	2	30	80-120	
Styrene	5.00	5.36	107	0	30	80-120	
Tetrachloroethene	5.00	5.50	110	1	30	80-120	
Toluene	5.00	5.45	109	0	30	80-120	
trans-1,2-Dichloroethene	5.00	5.65	113	0	30	80-122	
trans-1,3-Dichloropropene	5.00	5.31	106	3	30	61-129	
Trichloroethene	5.00	5.57	111	1	30	80-120	
Vinyl chloride	5.00	4.64	93	0	30	60-125	
Xylenes, Total	15.0	16.1	107	1	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Env, LLC Job No.: 410-64660-1

SDG No.:

Matrix: Water Level: Low Lab File ID: GD04X04.D

Lab ID: LCSD 410-201490/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	4.70	94	1	30	71-134	
1,1,1-Trichloroethane	5.00	4.77	95	2	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	4.90	98	4	30	75-123	
1,1,2-Trichloroethane	5.00	4.69	94	2	30	80-120	
1,1-Dichloroethane	5.00	4.20	84	1	30	74-120	
1,1-Dichloroethene	5.00	4.64	93	1	30	80-131	
1,2-Dibromoethane (EDB)	5.00	4.59	92	3	30	80-120	
1,2-Dichloroethane	5.00	4.30	86	5	30	69-122	
1,2-Dichloropropane	5.00	4.34	87	0	30	80-120	
2-Butanone (MEK)	62.5	60.7	97	8	30	59-141	
2-Hexanone	62.5	62.8	101	8	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.5	59.9	96	10	30	55-140	
Acetone	62.5	52.4	84	7	30	60-146	
Benzene	5.00	4.49	90	1	30	80-120	
Bromochloromethane	5.00	4.58	92	1	30	80-120	
Bromodichloromethane	5.00	4.60	92	1	30	73-124	
Bromoform	5.00	4.08	82	3	30	49-144	
Bromomethane	5.00	4.74	95	4	30	60-136	
Carbon disulfide	5.00	4.51	90	1	30	67-130	
Carbon tetrachloride	5.00	4.61	92	0	30	64-141	
Chlorobenzene	5.00	4.58	92	2	30	80-120	
Chloroethane	5.00	4.53	91	1	30	63-120	
Chloroform	5.00	4.66	93	0	30	80-120	
Chloromethane	5.00	4.50	90	3	30	56-124	
cis-1,2-Dichloroethene	5.00	4.70	94	0	30	80-122	
cis-1,3-Dichloropropene	5.00	4.33	87	1	30	67-121	
Dibromochloromethane	5.00	4.47	89	2	30	64-138	
Ethylbenzene	5.00	4.59	92	2	30	80-120	
Methyl tert-butyl ether	5.00	4.60	92	1	30	69-120	
Methylene Chloride	5.00	4.46	89	2	30	80-120	
Styrene	5.00	4.69	94	2	30	80-120	
Tetrachloroethene	5.00	4.29	86	2	30	80-120	
Toluene	5.00	4.57	91	2	30	80-120	
trans-1,2-Dichloroethene	5.00	4.51	90	3	30	80-122	
trans-1,3-Dichloropropene	5.00	4.64	93	4	30	61-129	
Trichloroethene	5.00	4.54	91	2	30	80-120	
Vinyl chloride	5.00	4.34	87	1	30	60-125	
Xylenes, Total	15.0	13.7	91	3	30	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 Env, LLC Job No.: 410-64660-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ID02X11.D

Lab ID: 410-64660-6 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	5.17	103	71-134	
1,1,1-Trichloroethane	5.00	0.19 J	5.92	115	78-126	
1,1,2,2-Tetrachloroethane	5.00	ND	5.09	102	75-123	
1,1,2-Trichloroethane	5.00	ND	5.33	107	80-120	
1,1-Dichloroethane	5.00	0.11 J	5.67	111	74-120	
1,1-Dichloroethene	5.00	0.13 J	6.53	128	80-131	
1,2-Dibromoethane (EDB)	5.00	ND	5.08	101	80-120	
1,2-Dichloroethane	5.00	ND	5.10	102	69-122	
1,2-Dichloropropane	5.00	ND	5.70	114	80-120	
2-Butanone (MEK)	62.6	ND	65.6	105	59-141	
2-Hexanone	62.6	ND	69.7	111	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	ND	66.5	106	55-140	
Acetone	62.6	ND	54.1	86	60-146	
Benzene	5.00	ND	5.74	115	80-120	
Bromochloromethane	5.00	ND	5.77	115	80-120	
Bromodichloromethane	5.00	ND	5.50	110	73-124	
Bromoform	5.00	ND	4.84	97	49-144	
Bromomethane	5.00	ND	4.79	96	60-136	
Carbon disulfide	5.00	ND	6.00	120	67-130	
Carbon tetrachloride	5.00	ND	5.86	117	64-141	
Chlorobenzene	5.00	ND	5.38	107	80-120	
Chloroethane	5.00	ND	4.88	98	63-120	
Chloroform	5.00	0.34 J	5.92	112	80-120	
Chloromethane	5.00	ND	5.01	100	80-120	
cis-1,2-Dichloroethene	5.00	0.93	6.78	117	80-122	
cis-1,3-Dichloropropene	5.00	ND	5.30	106	67-121	
Dibromochloromethane	5.00	ND	5.02	100	64-138	
Ethylbenzene	5.00	ND	5.43	108	80-120	
Methyl tert-butyl ether	5.00	ND	5.18	104	69-120	
Methylene Chloride	5.00	ND	5.69	114	80-120	
Styrene	5.00	ND	5.29	106	80-120	
Tetrachloroethene	5.00	4.8	10.7	117	80-120	
Toluene	5.00	ND	5.44	109	80-120	
trans-1,2-Dichloroethene	5.00	ND	5.87	117	80-122	
trans-1,3-Dichloropropene	5.00	ND	5.10	102	61-129	
Trichloroethene	5.00	1.1	6.83	115	80-120	
Vinyl chloride	5.00	ND	5.02	100	60-125	
Xylenes, Total	15.0	ND	16.2	108	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 Env, LLC Job No.: 410-64660-1

SDG No.:

Matrix: Water Level: Low Lab File ID: ID02X12.D

Lab ID: 410-64660-6 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	5.30	106	2	30	71-134	
1,1,1-Trichloroethane	5.00	5.92	115	0	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	5.08	102	0	30	75-123	
1,1,2-Trichloroethane	5.00	5.32	106	0	30	80-120	
1,1-Dichloroethane	5.00	5.63	110	1	30	74-120	
1,1-Dichloroethene	5.00	6.47	127	1	30	80-131	
1,2-Dibromoethane (EDB)	5.00	5.11	102	1	30	80-120	
1,2-Dichloroethane	5.00	4.93	98	4	30	69-122	
1,2-Dichloropropane	5.00	5.68	113	0	30	80-120	
2-Butanone (MEK)	62.6	66.2	106	1	30	59-141	
2-Hexanone	62.6	77.7	124	11	30	52-140	
4-Methyl-2-pentanone (MIBK)	62.6	74.2	119	11	30	55-140	
Acetone	62.6	50.7	81	6	30	60-146	
Benzene	5.00	5.74	115	0	30	80-120	
Bromochloromethane	5.00	5.53	111	4	30	80-120	
Bromodichloromethane	5.00	5.47	109	1	30	73-124	
Bromoform	5.00	4.79	96	1	30	49-144	
Bromomethane	5.00	4.78	96	0	30	60-136	
Carbon disulfide	5.00	5.96	119	1	30	67-130	
Carbon tetrachloride	5.00	5.88	118	0	30	64-141	
Chlorobenzene	5.00	5.39	108	0	30	80-120	
Chloroethane	5.00	4.86	97	0	30	63-120	
Chloroform	5.00	5.88	111	1	30	80-120	
Chloromethane	5.00	4.93	99	1	30	80-120	
cis-1,2-Dichloroethene	5.00	6.73	116	1	30	80-122	
cis-1,3-Dichloropropene	5.00	5.33	107	1	30	67-121	
Dibromochloromethane	5.00	5.04	101	0	30	64-138	
Ethylbenzene	5.00	5.54	111	2	30	80-120	
Methyl tert-butyl ether	5.00	5.09	102	2	30	69-120	
Methylene Chloride	5.00	5.60	112	2	30	80-120	
Styrene	5.00	5.36	107	1	30	80-120	
Tetrachloroethene	5.00	10.7	117	0	30	80-120	
Toluene	5.00	5.54	111	2	30	80-120	
trans-1,2-Dichloroethene	5.00	5.81	116	1	30	80-122	
trans-1,3-Dichloropropene	5.00	5.19	104	2	30	61-129	
Trichloroethene	5.00	6.87	116	1	30	80-120	
Vinyl chloride	5.00	5.11	102	2	30	60-125	
Xylenes, Total	15.0	16.5	110	2	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 Job No.: 410-64660-1

SDG No.:

Lab File ID: ID02X07.D Lab Sample ID: MB 410-200572/8

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

Instrument ID: 19930 Date Analyzed: 12/02/2021 12:30

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 410-200572/4	ID02X03.D	12/02/2021 11:05
	LCSD 410-200572/5	ID02X04.D	12/02/2021 11:26
HD-COD-SW-15-0/1-0	410-64660-6	ID02X10.D	12/02/2021 13:34
HD-COD-SW-15-0/1-0 MS MS	410-64660-6 MS	ID02X11.D	12/02/2021 13:55
HD-COD-SW-15-0/1-0 MSD MSD	410-64660-6 MSD	ID02X12.D	12/02/2021 14:16
HD-COD-SW-6-0/1-0	410-64660-1	ID02X14.D	12/02/2021 14:58
HD-COD-SW-7-0/1-0	410-64660-2	ID02X15.D	12/02/2021 15:19
HD-COD-SW-8-0/1-0	410-64660-3	ID02X16.D	12/02/2021 15:41
HD-COD-SW-9-0/1-0	410-64660-4	ID02X17.D	12/02/2021 16:02
HD-COD-SW-13-0/1-0	410-64660-5	ID02X18.D	12/02/2021 16:23

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-64660-1

SDG No.:

Lab File ID: ID03X10.D Lab Sample ID: MB 410-201082/11

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

Instrument ID: 19930 Date Analyzed: 12/03/2021 12:38

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 410-201082/5	ID03X04.D	12/03/2021 10:31
	LCSD 410-201082/6	ID03X05.D	12/03/2021 10:52
HD-QC1-0/1-2	410-64660-14	ID03X12.D	12/03/2021 13:20
HD-COD-SW-16-0/1-0	410-64660-7	ID03X21.D	12/03/2021 16:31
HD-COD-SW-17-0/1-0	410-64660-8	ID03X22.D	12/03/2021 16:53
HD-COD-SW-26-0/1-0	410-64660-9	ID03X23.D	12/03/2021 17:14
HD-COD-SW-27-0/1-0	410-64660-10	ID03X24.D	12/03/2021 17:35
HD-COD-SW-28-0/1-0	410-64660-11	ID03X25.D	12/03/2021 17:56
HD-COD-SW-29-0/1-0	410-64660-12	ID03X26.D	12/03/2021 18:17
HD-QC1-0/1-1	410-64660-13	ID03X27.D	12/03/2021 18:38

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-64660-1

SDG No.:

Lab File ID: GD04X07.D Lab Sample ID: MB 410-201490/8

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

Instrument ID: 16334 Date Analyzed: 12/04/2021 11:51

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 410-201490/4	GD04X03.D	12/04/2021 10:22
	LCSD 410-201490/5	GD04X04.D	12/04/2021 10:44
HD-COD-SW-17-0/1-0 DL	410-64660-8 DL	GD04X22.D	12/04/2021 17:24
HD-QC1-0/1-1 DL	410-64660-13 DL	GD04X23.D	12/04/2021 17:46

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Lab File ID: GL27T02.D BFB Injection Date: 07/27/2021

Instrument ID: 16334 BFB Injection Time: 15:41

Analysis Batch No.: 153227

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.4	
75	30.0 - 60.0 % of mass 95	45.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.4	(0.4) 1
174	Greater than 50% of mass 95	87.4	
175	5.0 - 9.0 % of mass 174	7.1	(8.1) 1
176	95.0 - 101.0 % of mass 174	84.9	(97.1) 1
177	5.0 - 9.0 % of mass 176	5.5	(6.5) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 410-153227/12	GL27X12.D	07/27/2021	19:35
	ICIS 410-153227/13	GL27X13.D	07/27/2021	19:57
	IC 410-153227/14	GL27X14.D	07/27/2021	20:19
	IC 410-153227/15	GL27X15.D	07/27/2021	20:41
	IC 410-153227/16	GL27X16.D	07/27/2021	21:03
	IC 410-153227/17	GL27X17.D	07/27/2021	21:25
	IC 410-153227/18	GL27X18.D	07/27/2021	21:47
	ICV 410-153227/19	GL27X19.D	07/27/2021	22:09

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Lab File ID: GD04T01.D BFB Injection Date: 12/04/2021

Instrument ID: 16334 BFB Injection Time: 09:25

Analysis Batch No.: 201490

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.5	
75	30.0 - 60.0 % of mass 95	46.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	83.9	
175	5.0 - 9.0 % of mass 174	6.9	(8.2) 1
176	95.0 - 101.0 % of mass 174	80.4	(95.9) 1
177	5.0 - 9.0 % of mass 176	5.4	(6.7) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-201490/3	GD04X02.D	12/04/2021	10:00
	LCS 410-201490/4	GD04X03.D	12/04/2021	10:22
	LCSD 410-201490/5	GD04X04.D	12/04/2021	10:44
	MB 410-201490/8	GD04X07.D	12/04/2021	11:51
HD-COD-SW-17-0/1-0 DL	410-64660-8 DL	GD04X22.D	12/04/2021	17:24
HD-QC1-0/1-1 DL	410-64660-13 DL	GD04X23.D	12/04/2021	17:46

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Lab File ID: IG23T01.D BFB Injection Date: 08/23/2021

Instrument ID: 19930 BFB Injection Time: 20:56

Analysis Batch No.: 163707

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.7	
75	30.0 - 60.0 % of mass 95	46.5	
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	1.1	(1.2) 1
174	Greater than 50% of mass 95	92.2	
175	5.0 - 9.0 % of mass 174	7.2	(7.8) 1
176	95.0 - 101.0 % of mass 174	87.7	(95.2) 1
177	5.0 - 9.0 % of mass 176	5.6	(6.4) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 410-163707/12	IG23I01.D	08/24/2021	0:45
	ICIS 410-163707/13	IG23I02.D	08/24/2021	1:06
	IC 410-163707/14	IG23I03.D	08/24/2021	1:27
	IC 410-163707/15	IG23I04.D	08/24/2021	1:48
	IC 410-163707/16	IG23I05.D	08/24/2021	2:09
	IC 410-163707/17	IG23I06.D	08/24/2021	2:30
	IC 410-163707/18	IG23I07.D	08/24/2021	2:52
	ICV 410-163707/19	IG23V01.D	08/24/2021	3:13

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Lab File ID: ID02T01.D BFB Injection Date: 12/02/2021

Instrument ID: 19930 BFB Injection Time: 10:06

Analysis Batch No.: 200572

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.5	
75	30.0 - 60.0 % of mass 95	46.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.8	(0.9) 1
174	Greater than 50% of mass 95	88.5	
175	5.0 - 9.0 % of mass 174	7.1	(8.1) 1
176	95.0 - 101.0 % of mass 174	87.4	(98.8) 1
177	5.0 - 9.0 % of mass 176	5.8	(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 410-200572/3	ID02X02.D	12/02/2021	10:44
	LCS 410-200572/4	ID02X03.D	12/02/2021	11:05
	LCSD 410-200572/5	ID02X04.D	12/02/2021	11:26
	MB 410-200572/8	ID02X07.D	12/02/2021	12:30
HD-COD-SW-15-0/1-0	410-64660-6	ID02X10.D	12/02/2021	13:34
HD-COD-SW-15-0/1-0 MS MS	410-64660-6 MS	ID02X11.D	12/02/2021	13:55
HD-COD-SW-15-0/1-0 MSD MSD	410-64660-6 MSD	ID02X12.D	12/02/2021	14:16
HD-COD-SW-6-0/1-0	410-64660-1	ID02X14.D	12/02/2021	14:58
HD-COD-SW-7-0/1-0	410-64660-2	ID02X15.D	12/02/2021	15:19
HD-COD-SW-8-0/1-0	410-64660-3	ID02X16.D	12/02/2021	15:41
HD-COD-SW-9-0/1-0	410-64660-4	ID02X17.D	12/02/2021	16:02
HD-COD-SW-13-0/1-0	410-64660-5	ID02X18.D	12/02/2021	16:23

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Lab File ID: ID03T01.D BFB Injection Date: 12/03/2021

Instrument ID: 19930 BFB Injection Time: 09:12

Analysis Batch No.: 201082

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.3	
75	30.0 - 60.0 % of mass 95	46.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.6	(0.6) 1
174	Greater than 50% of mass 95	89.5	
175	5.0 - 9.0 % of mass 174	6.8	(7.6) 1
176	95.0 - 101.0 % of mass 174	87.9	(98.2) 1
177	5.0 - 9.0 % of mass 176	5.9	(6.7) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-201082/3	ID03X02.D	12/03/2021	9:48
	LCS 410-201082/5	ID03X04.D	12/03/2021	10:31
	LCSD 410-201082/6	ID03X05.D	12/03/2021	10:52
	MB 410-201082/11	ID03X10.D	12/03/2021	12:38
HD-QC1-0/1-2	410-64660-14	ID03X12.D	12/03/2021	13:20
HD-COD-SW-16-0/1-0	410-64660-7	ID03X21.D	12/03/2021	16:31
HD-COD-SW-17-0/1-0	410-64660-8	ID03X22.D	12/03/2021	16:53
HD-COD-SW-26-0/1-0	410-64660-9	ID03X23.D	12/03/2021	17:14
HD-COD-SW-27-0/1-0	410-64660-10	ID03X24.D	12/03/2021	17:35
HD-COD-SW-28-0/1-0	410-64660-11	ID03X25.D	12/03/2021	17:56
HD-COD-SW-29-0/1-0	410-64660-12	ID03X26.D	12/03/2021	18:17
HD-QC1-0/1-1	410-64660-13	ID03X27.D	12/03/2021	18:38

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Sample No.: ICIS 410-153227/13 Date Analyzed: 07/27/2021 19:57

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

Lab File ID (Standard): GL27X13.D Heated Purge: (Y/N) N

Calibration ID: 29447

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		143636	4.25	1956692	7.66	1539325	11.15
UPPER LIMIT		287272	4.75	3913384	8.16	3078650	11.65
LOWER LIMIT		71818	3.75	978346	7.16	769663	10.65
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-153227/19		136619	4.26	1902658	7.66	1483632	11.15
CCVIS 410-201490/3		136587	4.25	2315186	7.66	1826928	11.13

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.: 410-64660-1

SDG No.:

Sample No.: ICIS 410-153227/13 Date Analyzed: 07/27/2021 19:57

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

Lab File ID (Standard): GL27X13.D Heated Purge: (Y/N) N

Calibration ID: 29447

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		901681	13.02				
UPPER LIMIT		1803362	13.52				
LOWER LIMIT		450841	12.52				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-153227/19		880820	13.03				
CCVIS 410-201490/3		1018962	13.00				

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.: 410-64660-1

SDG No.:

Sample No.: CCVIS 410-201490/3 Date Analyzed: 12/04/2021 10:00

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

Lab File ID (Standard): GD04X02.D Heated Purge: (Y/N) N

Calibration ID: 29447

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		136587	4.25	2315186	7.66	1826928	11.13
UPPER LIMIT		273174	4.75	4630372	8.16	3653856	11.63
LOWER LIMIT		68294	3.75	1157593	7.16	913464	10.63
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-201490/4		163697	4.20	2273751	7.66	1754419	11.13
LCSD 410-201490/5		147074	4.22	2297910	7.66	1792903	11.13
MB 410-201490/8		135704	4.22	2190836	7.66	1705640	11.13
410-64660-8 DL	HD-COD-SW-17-0/1-0 DL	191888	4.22	2130973	7.66	1662196	11.13
410-64660-13 DL	HD-QC1-0/1-1 DL	180382	4.23	2131051	7.66	1667849	11.13

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.: 410-64660-1

SDG No.:

Sample No.: CCVIS 410-201490/3 Date Analyzed: 12/04/2021 10:00

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

Lab File ID (Standard): GD04X02.D Heated Purge: (Y/N) N

Calibration ID: 29447

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		1018962	13.00				
UPPER LIMIT		2037924	13.50				
LOWER LIMIT		509481	12.50				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-201490/4		977408	13.00				
LCSD 410-201490/5		1001171	13.00				
MB 410-201490/8		920831	13.00				
410-64660-8 DL	HD-COD-SW-17-0/1-0 DL	909723	13.00				
410-64660-13 DL	HD-QC1-0/1-1 DL	908533	13.00				

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.: 410-64660-1

SDG No.:

Sample No.: ICIS 410-163707/13 Date Analyzed: 08/24/2021 01:06

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

Lab File ID (Standard): IG23I02.D Heated Purge: (Y/N) N

Calibration ID: 29976

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		165205	4.27	2122537	7.74	1640634	11.18
UPPER LIMIT		330410	4.77	4245074	8.24	3281268	11.68
LOWER LIMIT		82603	3.77	1061269	7.24	820317	10.68
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-163707/19		170769	4.26	2182088	7.74	1693972	11.18
CCVIS 410-200572/3		133978	4.29	2431739	7.70	1955286	11.16
CCVIS 410-201082/3		178434	4.21	2656975	7.70	2161537	11.16

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

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

Column used to flag values outside QC limits

FORM VIII 8260D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Sample No.: ICIS 410-163707/13 Date Analyzed: 08/24/2021 01:06

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

Lab File ID (Standard): IG23I02.D Heated Purge: (Y/N) N

Calibration ID: 29976

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		963407	13.06				
UPPER LIMIT		1926814	13.56				
LOWER LIMIT		481704	12.56				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-163707/19		994893	13.06				
CCVIS 410-200572/3		1117669	13.04				
CCVIS 410-201082/3		1250629	13.04				

DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Sample No.: CCVIS 410-200572/3 Date Analyzed: 12/02/2021 10:44

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

Lab File ID (Standard): ID02X02.D Heated Purge: (Y/N) N

Calibration ID: 29976

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		133978	4.29	2431739	7.70	1955286	11.16
UPPER LIMIT		267956	4.79	4863478	8.20	3910572	11.66
LOWER LIMIT		66989	3.79	1215870	7.20	977643	10.66
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-200572/4		135211	4.23	2431312	7.69	1930120	11.16
LCSD 410-200572/5		137453	4.21	2429812	7.69	1942194	11.16
MB 410-200572/8		132251	4.25	2485721	7.69	1982143	11.16
410-64660-6	HD-COD-SW-15-0/1-0	177219	4.19	2502608	7.69	2009803	11.16
410-64660-6 MS	HD-COD-SW-15-0/1-0 MS MS	160347	4.23	2456215	7.69	1978119	11.16
410-64660-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	141632	4.23	2474068	7.69	1976298	11.16
410-64660-1	HD-COD-SW-6-0/1-0	170928	4.20	2488305	7.69	1996920	11.16
410-64660-2	HD-COD-SW-7-0/1-0	182619	4.20	2426014	7.69	1966620	11.16
410-64660-3	HD-COD-SW-8-0/1-0	192880	4.22	2437215	7.70	1955098	11.16
410-64660-4	HD-COD-SW-9-0/1-0	163639	4.24	2413073	7.69	1951021	11.16
410-64660-5	HD-COD-SW-13-0/1-0	150816	4.19	2429647	7.69	1958094	11.16

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

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

Column used to flag values outside QC limits

FORM VIII 8260D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Sample No.: CCVIS 410-200572/3 Date Analyzed: 12/02/2021 10:44

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

Lab File ID (Standard): ID02X02.D Heated Purge: (Y/N) N

Calibration ID: 29976

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		1117669	13.04				
UPPER LIMIT		2235338	13.54				
LOWER LIMIT		558835	12.54				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-200572/4		1125189	13.04				
LCSD 410-200572/5		1111177	13.04				
MB 410-200572/8		1154305	13.04				
410-64660-6	HD-COD-SW-15-0/1-0	1168339	13.04				
410-64660-6 MS	HD-COD-SW-15-0/1-0 MS MS	1128618	13.04				
410-64660-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	1129921	13.04				
410-64660-1	HD-COD-SW-6-0/1-0	1175311	13.04				
410-64660-2	HD-COD-SW-7-0/1-0	1146411	13.04				
410-64660-3	HD-COD-SW-8-0/1-0	1145177	13.04				
410-64660-4	HD-COD-SW-9-0/1-0	1132434	13.04				
410-64660-5	HD-COD-SW-13-0/1-0	1141609	13.04				

DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8260D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Sample No.: CCVIS 410-201082/3 Date Analyzed: 12/03/2021 09:48

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

Lab File ID (Standard): ID03X02.D Heated Purge: (Y/N) N

Calibration ID: 29976

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		178434	4.21	2656975	7.70	2161537	11.16
UPPER LIMIT		356868	4.71	5313950	8.20	4323074	11.66
LOWER LIMIT		89217	3.71	1328488	7.20	1080769	10.66
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-201082/5		182481	4.19	2351440	7.69	1914192	11.16
LCSD 410-201082/6		169478	4.20	2392172	7.69	1921179	11.16
MB 410-201082/11		160804	4.19	2423687	7.69	1954568	11.16
410-64660-14	HD-QC1-0/1-2	165537	4.18	2343379	7.69	1887436	11.16
410-64660-7	HD-COD-SW-16-0/1-0	118709	4.24	2368967	7.69	1903496	11.16
410-64660-8	HD-COD-SW-17-0/1-0	107476	4.26	2360302	7.70	1901905	11.16
410-64660-9	HD-COD-SW-26-0/1-0	142041	4.25	2385496	7.69	1920151	11.16
410-64660-10	HD-COD-SW-27-0/1-0	187936	4.20	2363508	7.70	1917061	11.16
410-64660-11	HD-COD-SW-28-0/1-0	177511	4.21	2380035	7.70	1927788	11.16
410-64660-12	HD-COD-SW-29-0/1-0	192410	4.23	2382127	7.70	1928990	11.16
410-64660-13	HD-QC1-0/1-1	189408	4.18	2409629	7.70	1951004	11.16

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

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

Column used to flag values outside QC limits

FORM VIII 8260D

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Sample No.: CCVIS 410-201082/3 Date Analyzed: 12/03/2021 09:48

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

Lab File ID (Standard): ID03X02.D Heated Purge: (Y/N) N

Calibration ID: 29976

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		1250629	13.04				
UPPER LIMIT		2501258	13.54				
LOWER LIMIT		625315	12.54				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-201082/5		1097754	13.04				
LCSD 410-201082/6		1100843	13.04				
MB 410-201082/11		1137870	13.04				
410-64660-14	HD-QC1-0/1-2	1106115	13.04				
410-64660-7	HD-COD-SW-16-0/1-0	1082621	13.04				
410-64660-8	HD-COD-SW-17-0/1-0	1096396	13.05				
410-64660-9	HD-COD-SW-26-0/1-0	1102063	13.05				
410-64660-10	HD-COD-SW-27-0/1-0	1114182	13.05				
410-64660-11	HD-COD-SW-28-0/1-0	1119409	13.04				
410-64660-12	HD-COD-SW-29-0/1-0	1119382	13.05				
410-64660-13	HD-QC1-0/1-1	1134937	13.05				

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 E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-6-0/1-0 Lab Sample ID: 410-64660-1

Matrix: Water Lab File ID: ID02X14.D

Analysis Method: 8260D Date Collected: 11/23/2021 10:00

Sample wt/vol: 25(mL) Date Analyzed: 12/02/2021 14:58

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 200572 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND	^c	5.0	0.60
591-78-6	2-Hexanone	ND	^c *+	5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70
67-64-1	Acetone	1.0	J	5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.11	J	0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	ND		0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	0.12	J	0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-6-0/1-0 Lab Sample ID: 410-64660-1

Matrix: Water Lab File ID: ID02X14.D

Analysis Method: 8260D Date Collected: 11/23/2021 10:00

Sample wt/vol: 25(mL) Date Analyzed: 12/02/2021 14:58

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 200572 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X14.D
Lims ID: 410-64660-A-1
Client ID: HD-COD-SW-6-0/1-0
Sample Type: Client
Inject. Date: 02-Dec-2021 14:58:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045241-015
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 02-Dec-2021 18:51:26 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1601

First Level Reviewer: beckerk Date: 02-Dec-2021 18:43:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.160	2.166	-0.006	93	4009	0.0452	
5 Vinyl chloride	62		2.282				ND	
7 Bromomethane	94		2.611				ND	7
8 Chloroethane	64		2.690				ND	
14 1,1-Dichloroethene	96		3.538				ND	
15 Acetone	43	3.568	3.574	-0.006	95	9659	1.02	M
19 Carbon disulfide	76	3.842	3.842	0.000	97	7728	0.0471	
23 Methylene Chloride	84		4.202				ND	7
* 24 t-Butyl alcohol-d10 (IS)	65	4.202	4.288	-0.086	18	170928	50.0	
27 Methyl tert-butyl ether	73		4.605				ND	7
28 trans-1,2-Dichloroethene	96		4.617				ND	
31 1,1-Dichloroethane	63		5.275				ND	
36 2-Butanone (MEK)	43		6.080				ND	7
37 cis-1,2-Dichloroethene	96	6.116	6.110	0.006	78	8183	0.1089	M
43 Chlorobromomethane	128		6.440				ND	
45 Chloroform	83	6.592	6.592	0.000	86	5816	0.0480	
$ 46 Dibromofluoromethane (Surr)	113	6.799	6.805	-0.006	94	631183	10.1	
47 1,1,1-Trichloroethane	97		6.818				ND	
50 Carbon tetrachloride	117		7.031				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.250	7.263	-0.013	83	128222	10.2	
54 Benzene	78		7.293				ND	7
56 1,2-Dichloroethane	62		7.366				ND	
* 58 Fluorobenzene (IS)	96	7.689	7.695	-0.006	99	2488305	10.0	
61 Trichloroethene	95	8.171	8.177	-0.006	97	9241	0.1229	
63 1,2-Dichloropropane	63		8.506				ND	
68 Dichlorobromomethane	83		8.854				ND	7
73 cis-1,3-Dichloropropene	75		9.396				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.567				ND	7
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2607813	10.1	
76 Toluene	92	9.780	9.786	-0.006	98	6570	0.0343	
78 trans-1,3-Dichloropropene	75		10.042				ND	
80 1,1,2-Trichloroethane	97		10.244				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
81 Tetrachloroethene	166	10.329	10.335	-0.006	90	3405	0.0373	
83 2-Hexanone	43		10.457				ND	7
85 Chlorodibromomethane	129		10.622				ND	
86 Ethylene Dibromide	107		10.737				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	1996920	10.0	
90 Chlorobenzene	112		11.189				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.274				ND	
92 Ethylbenzene	91		11.274				ND	7
93 m-Xylene & p-Xylene	106		11.390				ND	7
94 o-Xylene	106		11.719				ND	7
95 Styrene	104		11.731				ND	7
96 Bromoform	173		11.896				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	93	990344	10.0	
101 1,1,2,2-Tetrachloroethane	83		12.262				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.042	13.042	0.000	94	1175311	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00002 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 02-Dec-2021 18:52:21 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X14.D

Injection Date:	02-Dec-2021 14:58:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	410-64660-A-1	Lab Sample ID:	410-64660-1	Worklist Smp#:	15
Client ID:	HD-COD-SW-6-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X14.D
Lims ID: 410-64660-A-1
Client ID: HD-COD-SW-6-0/1-0
Sample Type: Client
Inject. Date: 02-Dec-2021 14:58:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045241-015
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 02-Dec-2021 18:51:26 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1601

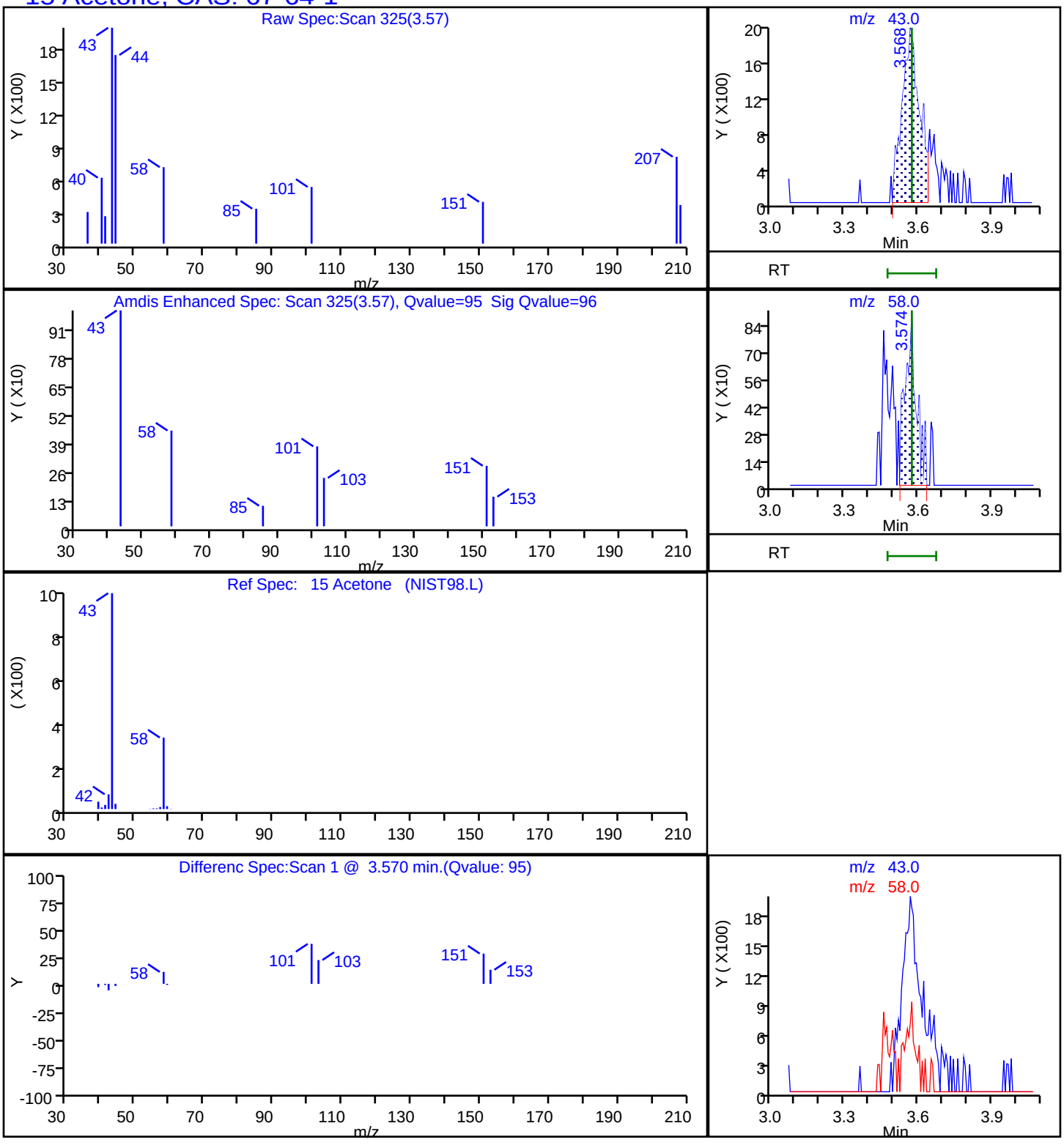
First Level Reviewer: beckerk Date: 02-Dec-2021 18:43:59

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.1	100.69
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.25
$ 75 Toluene-d8 (Surr)	10.0	10.1	101.05
$ 100 4-Bromofluorobenzene (Surr)	10.0	10.0	100.41

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X14.D				
Injection Date:	02-Dec-2021 14:58:30	Instrument ID:	19930		
Lims ID:	410-64660-A-1	Lab Sample ID:	410-64660-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

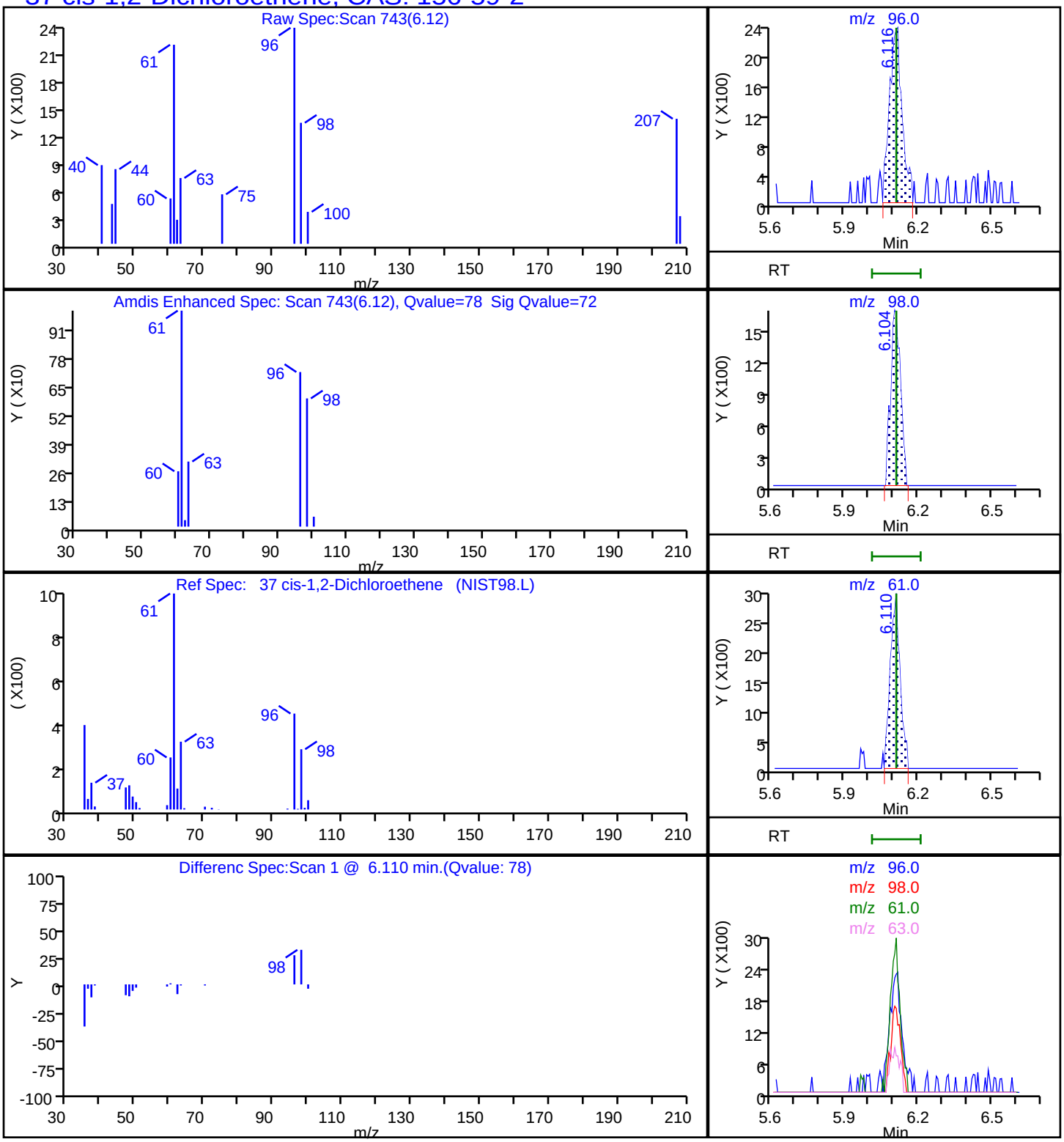
15 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X14.D				
Injection Date:	02-Dec-2021 14:58:30	Instrument ID:	19930		
Lims ID:	410-64660-A-1	Lab Sample ID:	410-64660-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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



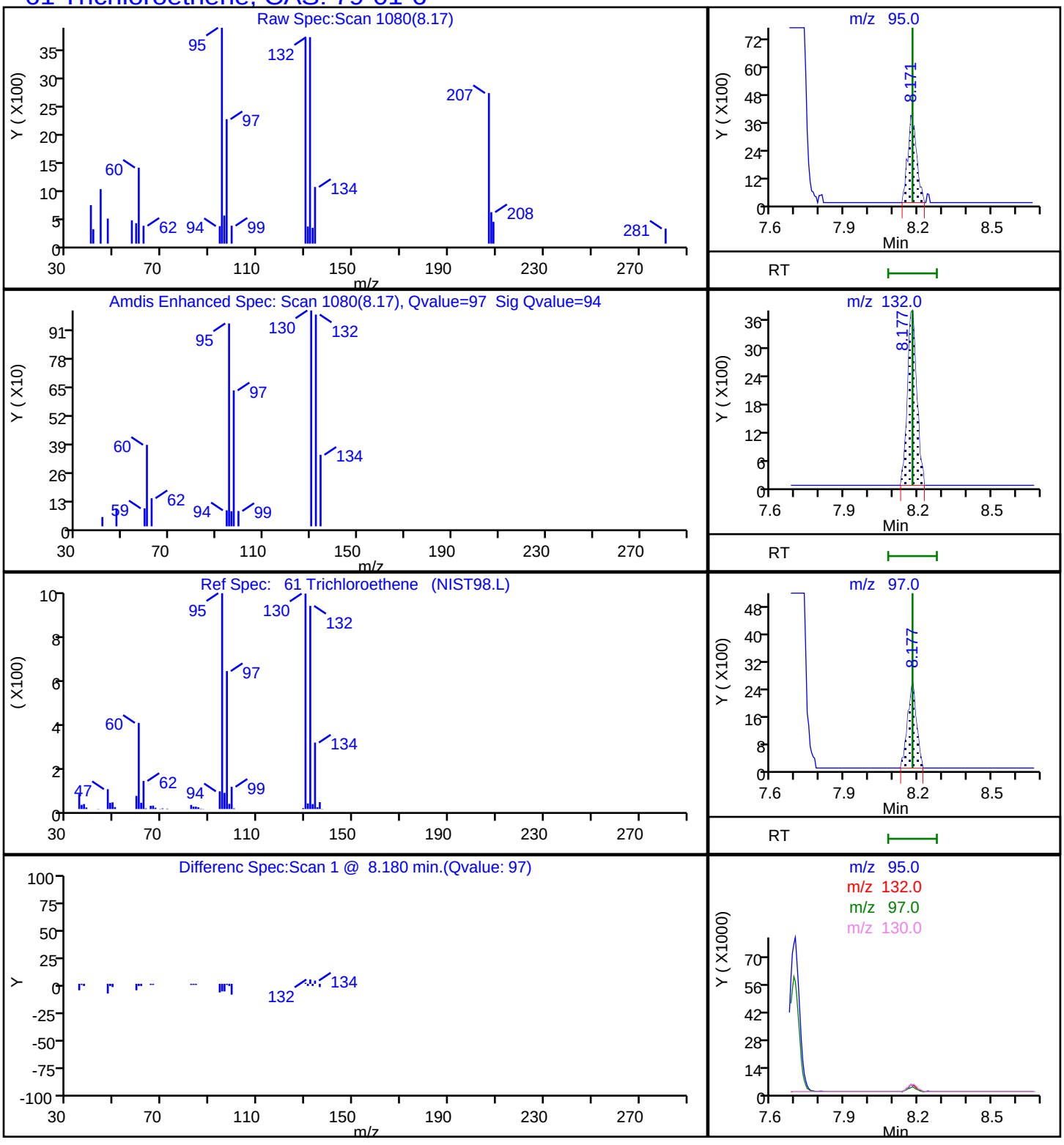
Report Date: 02-Dec-2021 18:52:21 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X14.D

Injection Date:	02-Dec-2021 14:58:30	Instrument ID:	19930		
Lims ID:	410-64660-A-1	Lab Sample ID:	410-64660-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

61 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

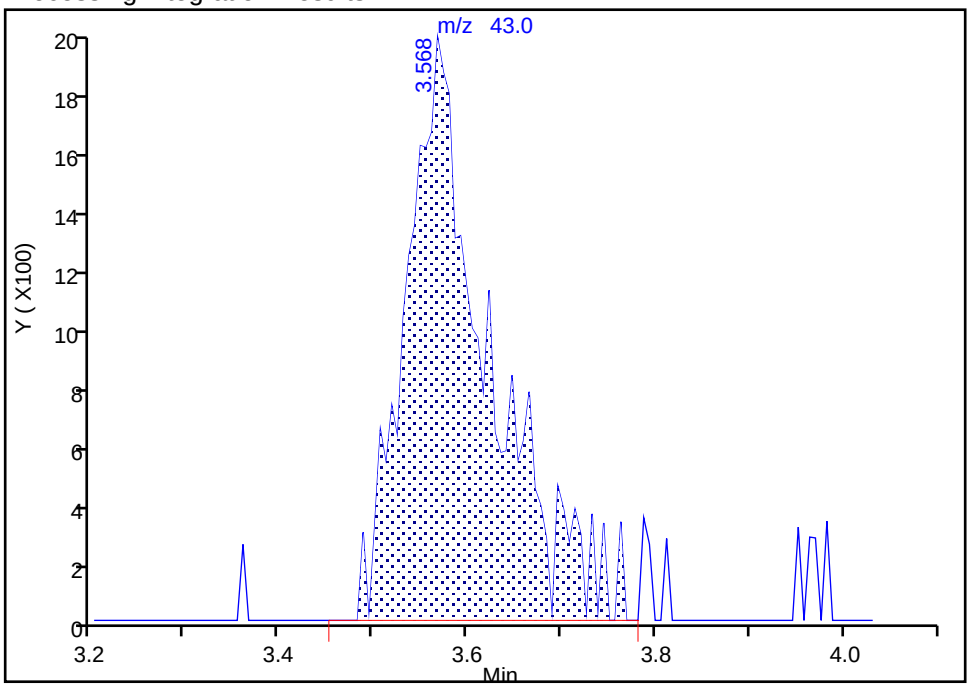
Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X14.D				
Injection Date:	02-Dec-2021 14:58:30	Instrument ID:	19930		
Lims ID:	410-64660-A-1	Lab Sample ID:	410-64660-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

15 Acetone, CAS: 67-64-1

Signal: 1

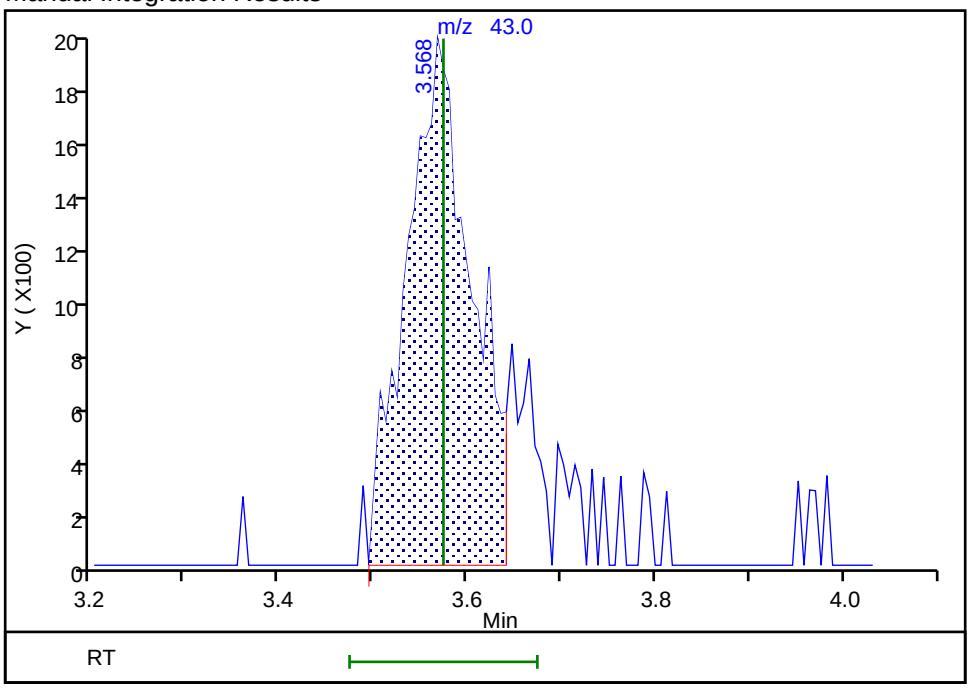
Processing Integration Results

RT: 3.57
Area: 12212
Amount: 1.286096
Amount Units: ug/l



Manual Integration Results

RT: 3.57
Area: 9659
Amount: 1.017229
Amount Units: ug/l



Reviewer: beckerk, 02-Dec-2021 18:43:31

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

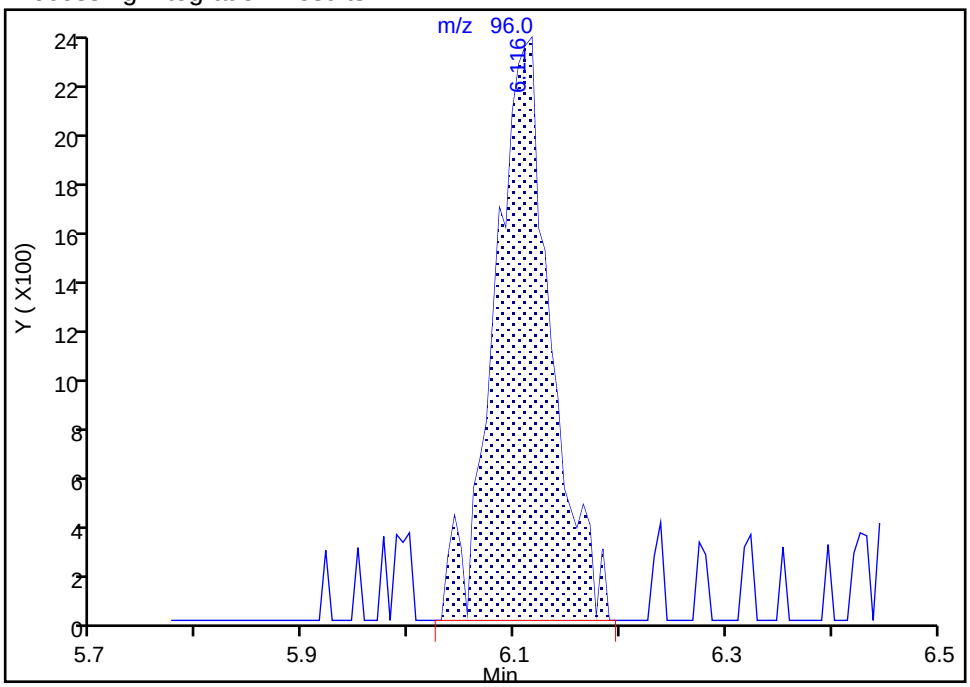
Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X14.D				
Injection Date:	02-Dec-2021 14:58:30	Instrument ID:	19930		
Lims ID:	410-64660-A-1	Lab Sample ID:	410-64660-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

Signal: 1

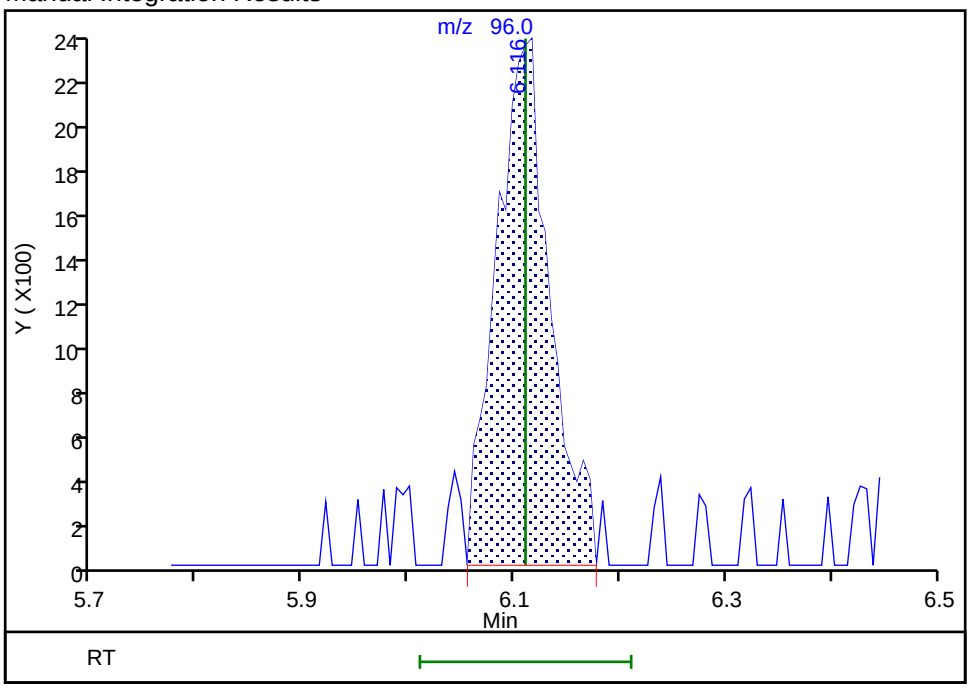
Processing Integration Results

RT: 6.12
Area: 8635
Amount: 0.114910
Amount Units: ug/l



Manual Integration Results

RT: 6.12
Area: 8183
Amount: 0.108895
Amount Units: ug/l



Reviewer: beckerk, 02-Dec-2021 18:43:44
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-7-0/1-0 Lab Sample ID: 410-64660-2

Matrix: Water Lab File ID: ID02X15.D

Analysis Method: 8260D Date Collected: 11/23/2021 10:40

Sample wt/vol: 25(mL) Date Analyzed: 12/02/2021 15:19

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 200572 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND	^c	5.0	0.60
591-78-6	2-Hexanone	ND	^c *+	5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70
67-64-1	Acetone	1.2	J	5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	0.062	J	1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	0.094	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.12	J	0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	0.076	J	0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	0.15	J	0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-7-0/1-0 Lab Sample ID: 410-64660-2

Matrix: Water Lab File ID: ID02X15.D

Analysis Method: 8260D Date Collected: 11/23/2021 10:40

Sample wt/vol: 25(mL) Date Analyzed: 12/02/2021 15:19

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 200572 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X15.D
Lims ID: 410-64660-A-2
Client ID: HD-COD-SW-7-0/1-0
Sample Type: Client
Inject. Date: 02-Dec-2021 15:19:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045342-016
Misc. Info.: 410-64660-A-2
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 02-Dec-2021 18:51:26 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1601

First Level Reviewer: beckerk Date: 02-Dec-2021 18:44:24

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	4 Chloromethane	50	2.148	2.166	-0.018	1	4210	0.0487	
	5 Vinyl chloride	62		2.282				ND	7
	7 Bromomethane	94		2.611				ND	
	8 Chloroethane	64		2.690				ND	
	14 1,1-Dichloroethene	96		3.538				ND	
	15 Acetone	43	3.550	3.574	-0.024	96	12445	1.23	
	19 Carbon disulfide	76	3.830	3.842	-0.012	98	9912	0.0620	
	23 Methylene Chloride	84		4.202				ND	
*	24 t-Butyl alcohol-d10 (IS)	65	4.202	4.288	-0.086	18	182619	50.0	
	27 Methyl tert-butyl ether	73		4.605				ND	
	28 trans-1,2-Dichloroethene	96		4.617				ND	
	31 1,1-Dichloroethane	63		5.275				ND	
	36 2-Butanone (MEK)	43		6.080				ND	7
	37 cis-1,2-Dichloroethene	96	6.104	6.110	-0.006	77	9158	0.1250	
	43 Chlorobromomethane	128		6.440				ND	
	45 Chloroform	83	6.592	6.592	0.000	92	11079	0.0937	
$	46 Dibromofluoromethane (Surr)	113	6.799	6.805	-0.006	94	620853	10.2	
	47 1,1,1-Trichloroethane	97		6.818				ND	
	50 Carbon tetrachloride	117		7.031				ND	
$	53 1,2-Dichloroethane-d4 (Surr)	102	7.250	7.263	-0.013	83	126106	10.3	
	54 Benzene	78		7.293				ND	7
	56 1,2-Dichloroethane	62		7.366				ND	
*	58 Fluorobenzene (IS)	96	7.689	7.695	-0.006	99	2426014	10.0	
	61 Trichloroethene	95	8.171	8.177	-0.006	95	11344	0.1547	
	63 1,2-Dichloropropane	63		8.506				ND	
	68 Dichlorobromomethane	83		8.854				ND	7
	73 cis-1,3-Dichloropropene	75		9.396				ND	
	74 4-Methyl-2-pentanone (MIBK)	43		9.567				ND	7
$	75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2554304	10.1	
	76 Toluene	92	9.786	9.786	0.000	97	6370	0.0338	
	78 trans-1,3-Dichloropropene	75		10.042				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
80 1,1,2-Trichloroethane	97		10.244				ND	
81 Tetrachloroethene	166	10.335	10.335	0.000	96	6796	0.0757	
83 2-Hexanone	43		10.457				ND	
85 Chlorodibromomethane	129		10.622				ND	
86 Ethylene Dibromide	107		10.737				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	1966620	10.0	
90 Chlorobenzene	112		11.189				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.274				ND	
92 Ethylbenzene	91		11.274				ND	7
93 m-Xylene & p-Xylene	106		11.390				ND	7
94 o-Xylene	106		11.719				ND	7
95 Styrene	104		11.731				ND	7
96 Bromoform	173		11.896				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	93	967015	9.96	
101 1,1,2,2-Tetrachloroethane	83		12.262				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.042	13.042	0.000	94	1146411	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00002 Amount Added: 5.00 Units: uL Run Reagent

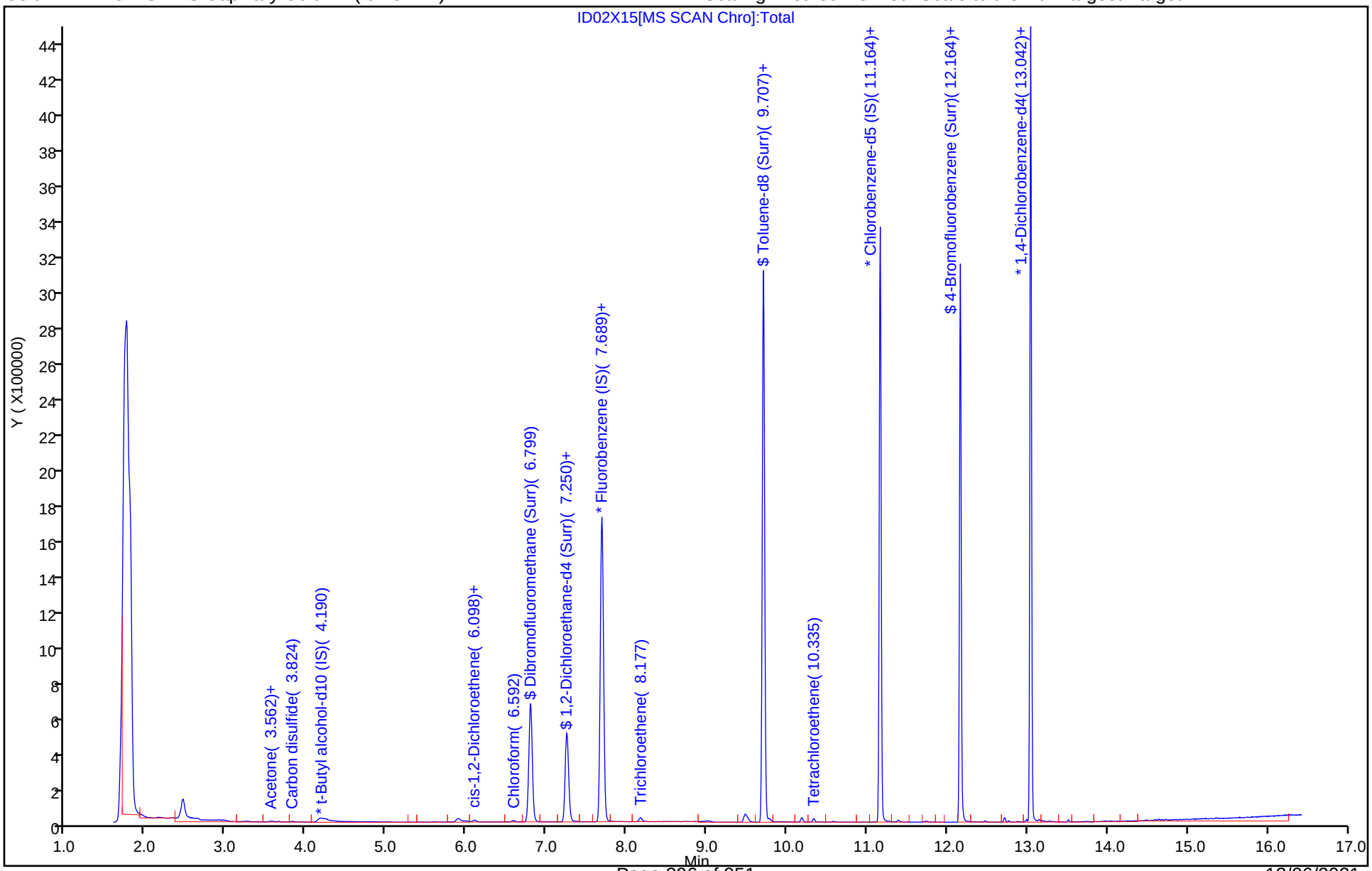
Report Date: 02-Dec-2021 18:52:22 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X15.D

Injection Date:	02-Dec-2021 15:19:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	410-64660-A-2	Lab Sample ID:	410-64660-2	Worklist Smp#:	16
Client ID:	HD-COD-SW-7-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X15.D				
Lims ID:	410-64660-A-2				
Client ID:	HD-COD-SW-7-0/1-0				
Sample Type:	Client				
Inject. Date:	02-Dec-2021 15:19:30	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0045342-016				
Misc. Info.:	410-64660-A-2				
Operator ID:	KNK41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	02-Dec-2021 18:51:26	Calib Date:	24-Aug-2021 02:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1601				

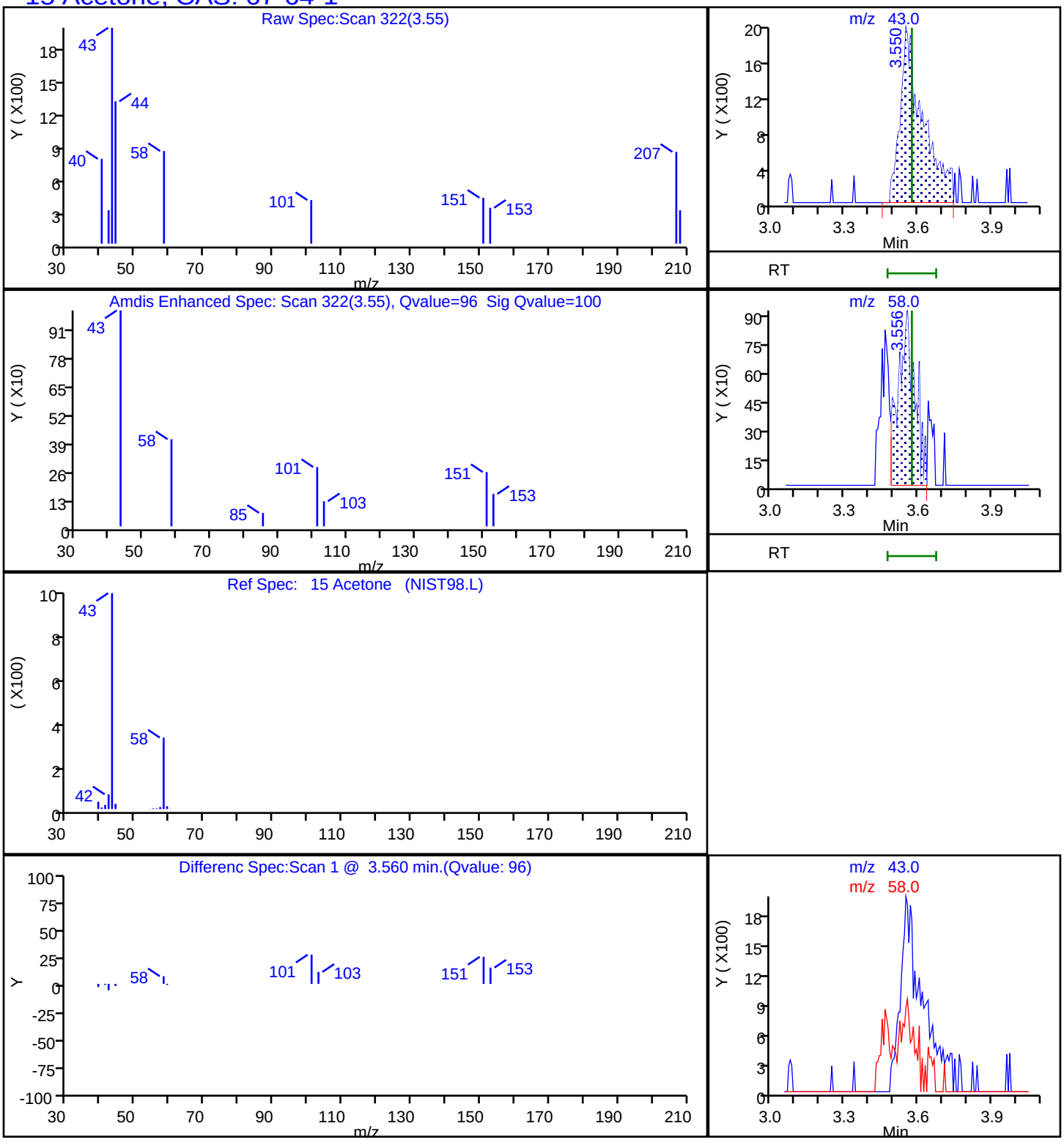
First Level Reviewer: beckerk Date: 02-Dec-2021 18:44:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.2	101.59
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.15
$ 75 Toluene-d8 (Surr)	10.0	10.1	100.50
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.96	99.56

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X15.D				
Injection Date:	02-Dec-2021 15:19:30	Instrument ID:	19930		
Lims ID:	410-64660-A-2	Lab Sample ID:	410-64660-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

15 Acetone, CAS: 67-64-1



Report Date: 02-Dec-2021 18:52:22 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X15.D

Injection Date: 02-Dec-2021 15:19:30 Instrument ID: 19930

Lims ID: 410-64660-A-2 Lab Sample ID: 410-64660-2

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

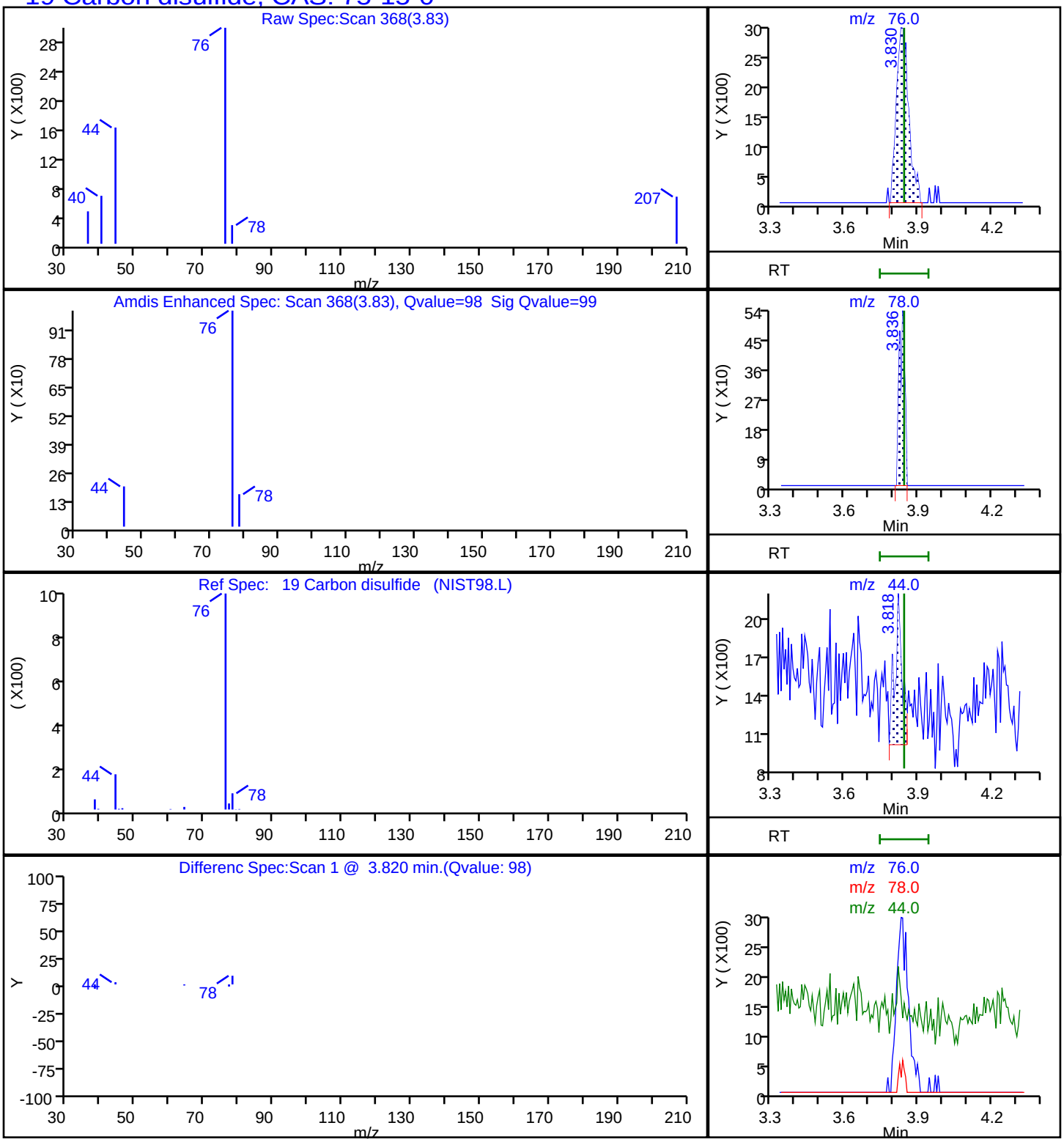
Operator ID: KNK41612 ALS Bottle#: 15 Worklist Smp#: 16

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D

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

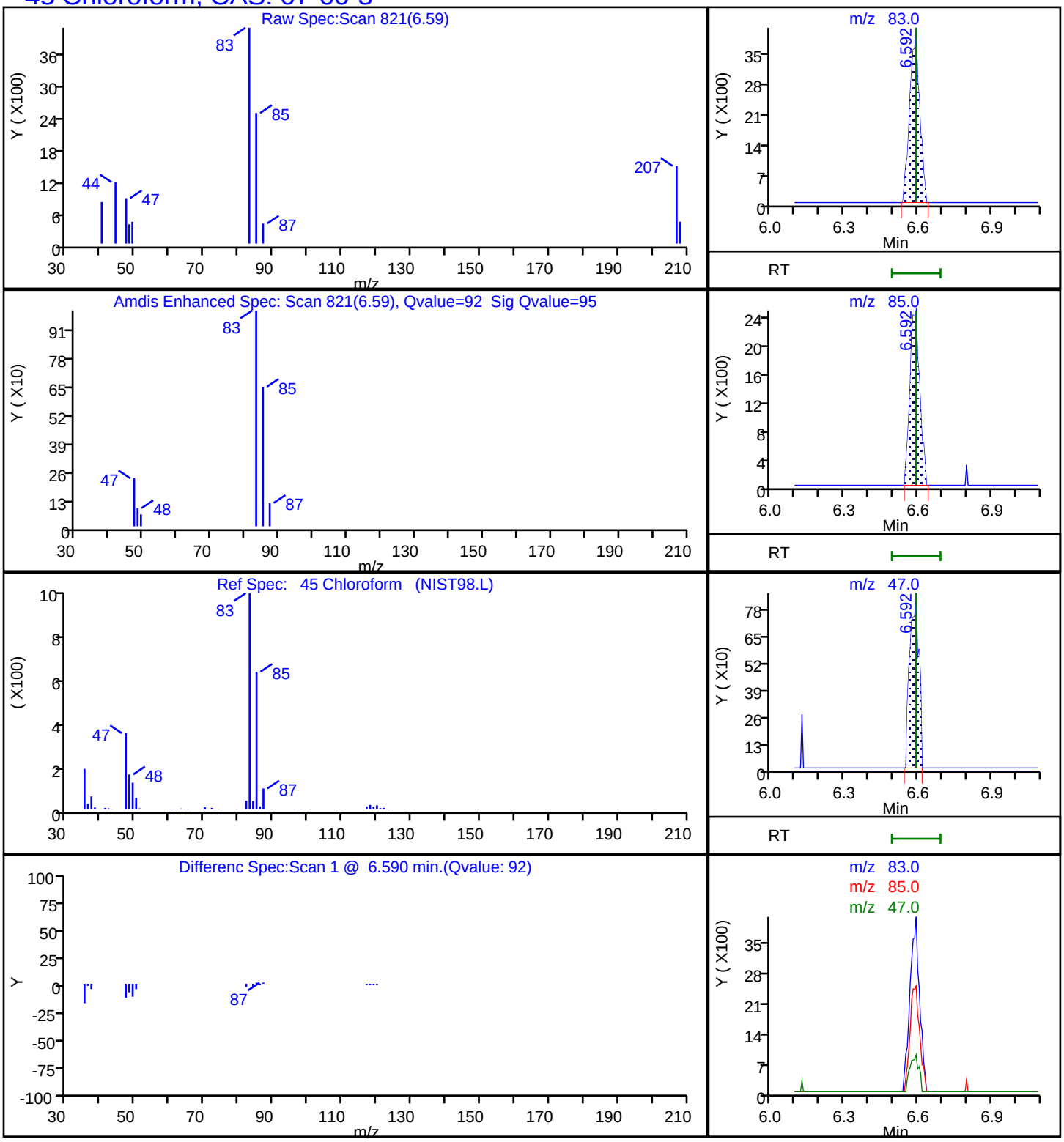
19 Carbon disulfide, CAS: 75-15-0



Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X15.D
Injection Date: 02-Dec-2021 15:19:30 Instrument ID: 19930
Lims ID: 410-64660-A-2 Lab Sample ID: 410-64660-2
Client ID: HD-COD-SW-7-0/1-0
Operator ID: KNK41612 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

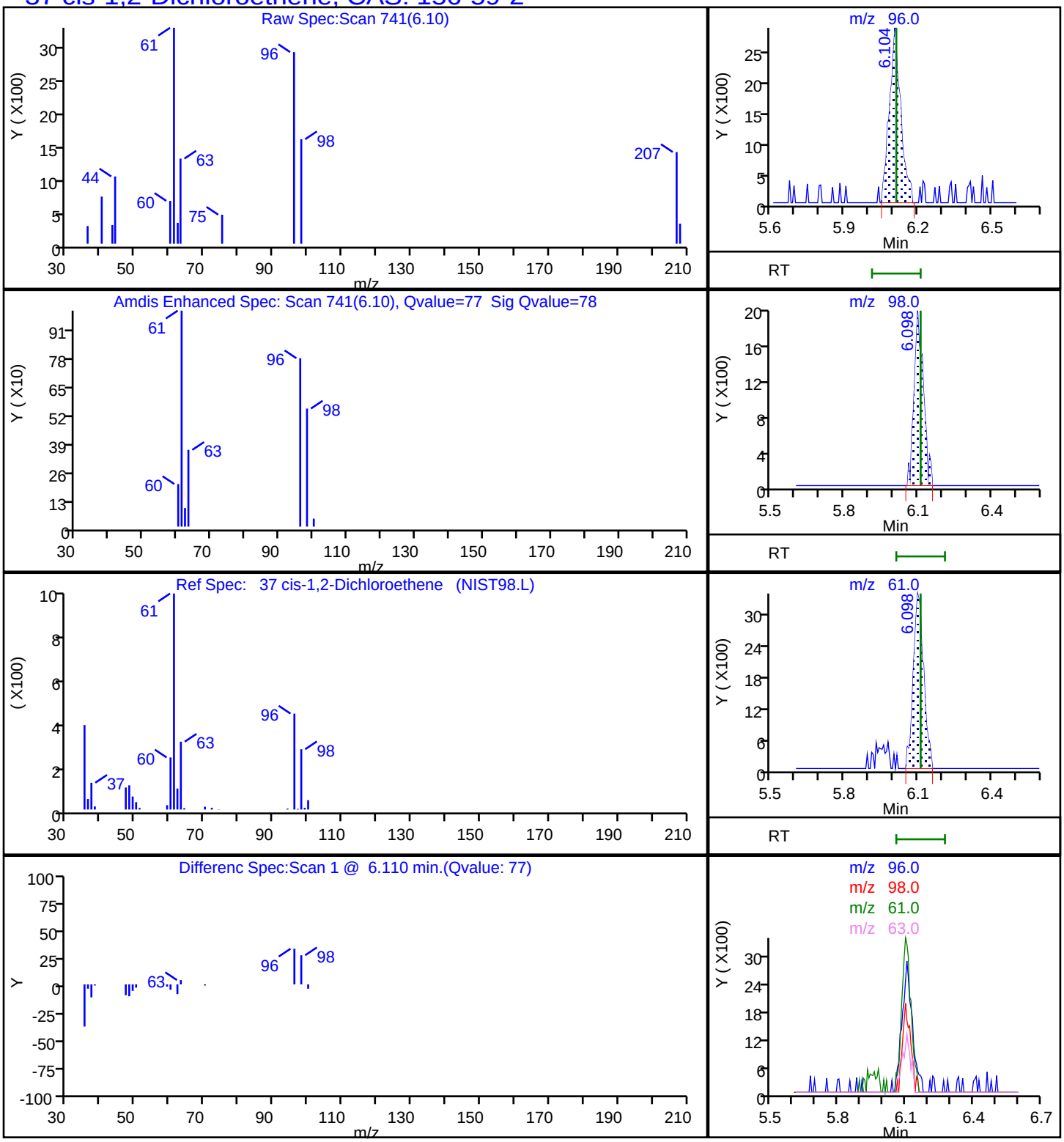
45 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X15.D				
Injection Date:	02-Dec-2021 15:19:30	Instrument ID:	19930		
Lims ID:	410-64660-A-2	Lab Sample ID:	410-64660-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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



Report Date: 02-Dec-2021 18:52:22 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X15.D

Injection Date: 02-Dec-2021 15:19:30 Instrument ID: 19930

Lims ID: 410-64660-A-2 Lab Sample ID: 410-64660-2

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

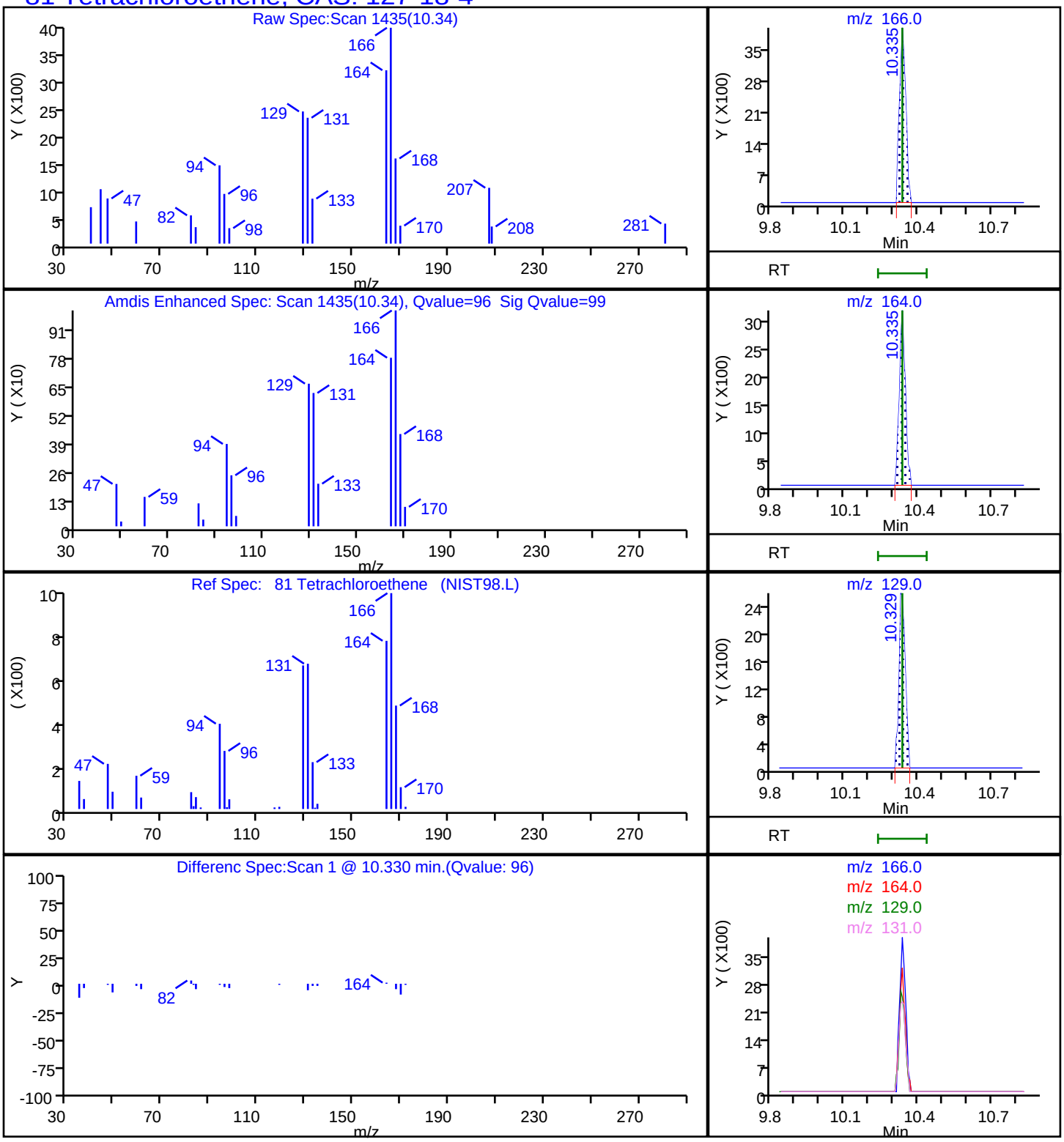
Operator ID: KNK41612 ALS Bottle#: 15 Worklist Smp#: 16

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D

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

81 Tetrachloroethene, CAS: 127-18-4



Report Date: 02-Dec-2021 18:52:22 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X15.D

Injection Date: 02-Dec-2021 15:19:30 Instrument ID: 19930

Lims ID: 410-64660-A-2 Lab Sample ID: 410-64660-2

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

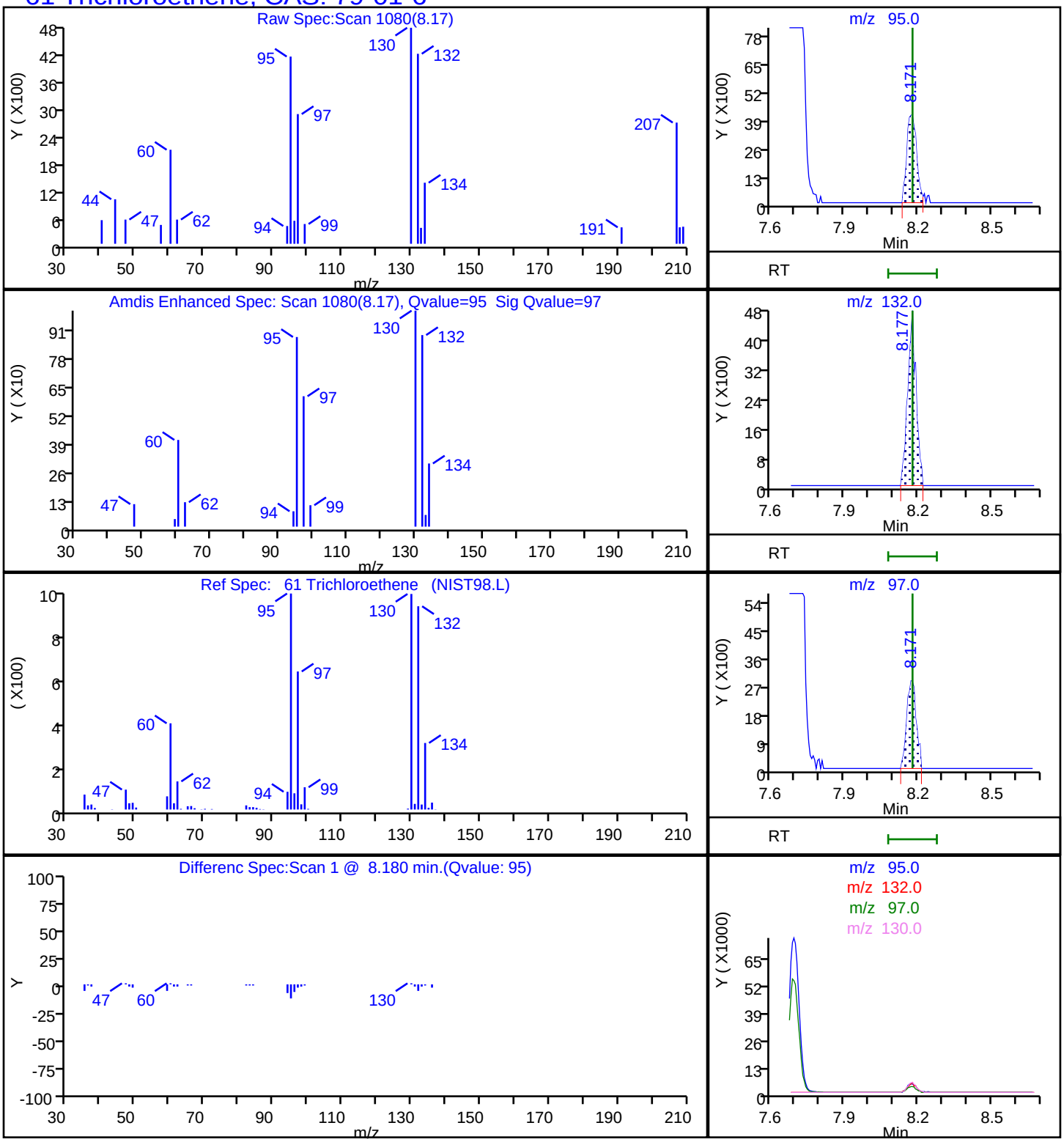
Operator ID: KNK41612 ALS Bottle#: 15 Worklist Smp#: 16

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D

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

61 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-8-0/1-0 Lab Sample ID: 410-64660-3

Matrix: Water Lab File ID: ID02X16.D

Analysis Method: 8260D Date Collected: 11/23/2021 08:55

Sample wt/vol: 25(mL) Date Analyzed: 12/02/2021 15:41

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 200572 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND	^c	5.0	0.60
591-78-6	2-Hexanone	ND	^c *+	5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70
67-64-1	Acetone	1.0	J	5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.17	J	0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	0.49	J	0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	0.22	J	0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-8-0/1-0 Lab Sample ID: 410-64660-3

Matrix: Water Lab File ID: ID02X16.D

Analysis Method: 8260D Date Collected: 11/23/2021 08:55

Sample wt/vol: 25(mL) Date Analyzed: 12/02/2021 15:41

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 200572 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X16.D
Lims ID: 410-64660-A-3
Client ID: HD-COD-SW-8-0/1-0
Sample Type: Client
Inject. Date: 02-Dec-2021 15:41:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045342-017
Misc. Info.: 410-64660-A-3
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 02-Dec-2021 18:51:26 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1601

First Level Reviewer: beckerk Date: 02-Dec-2021 18:45:14

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	4 Chloromethane	50	2.166	2.166	0.000	93	3641	0.0419	
	5 Vinyl chloride	62		2.282				ND	
	7 Bromomethane	94		2.611				ND	7
	8 Chloroethane	64		2.690				ND	
	14 1,1-Dichloroethene	96		3.538				ND	7
	15 Acetone	43	3.593	3.574	0.019	98	10708	1.00	M
	19 Carbon disulfide	76	3.836	3.842	-0.006	62	6826	0.0425	
	23 Methylene Chloride	84		4.202				ND	
*	24 t-Butyl alcohol-d10 (IS)	65	4.221	4.288	-0.067	18	192880	50.0	
	27 Methyl tert-butyl ether	73		4.605				ND	
	28 trans-1,2-Dichloroethene	96		4.617				ND	
	31 1,1-Dichloroethane	63		5.275				ND	
	36 2-Butanone (MEK)	43		6.080				ND	7
	37 cis-1,2-Dichloroethene	96	6.117	6.110	0.006	77	12640	0.1717	a
	43 Chlorobromomethane	128		6.440				ND	
	45 Chloroform	83	6.580	6.592	-0.012	88	6326	0.0533	
$	46 Dibromofluoromethane (Surr)	113	6.805	6.805	0.000	94	621456	10.1	
	47 1,1,1-Trichloroethane	97	6.818	6.818	0.000	41	4217	0.0382	
	50 Carbon tetrachloride	117		7.031				ND	
$	53 1,2-Dichloroethane-d4 (Surr)	102	7.257	7.263	-0.006	83	124150	10.1	
	54 Benzene	78		7.293				ND	7
	56 1,2-Dichloroethane	62		7.366				ND	
*	58 Fluorobenzene (IS)	96	7.695	7.695	0.000	99	2437215	10.0	
	61 Trichloroethene	95	8.177	8.177	0.000	96	15891	0.2158	
	63 1,2-Dichloropropane	63		8.506				ND	
	68 Dichlorobromomethane	83		8.854				ND	7
	73 cis-1,3-Dichloropropene	75		9.396				ND	
	74 4-Methyl-2-pentanone (MIBK)	43		9.567				ND	7
$	75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2555390	10.1	
	76 Toluene	92	9.780	9.786	-0.006	96	8089	0.0432	
	78 trans-1,3-Dichloropropene	75		10.042				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
80 1,1,2-Trichloroethane	97		10.244				ND	
81 Tetrachloroethene	166	10.335	10.335	0.000	96	43729	0.4897	
83 2-Hexanone	43		10.457				ND	
85 Chlorodibromomethane	129		10.622				ND	
86 Ethylene Dibromide	107		10.737				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	1955098	10.0	
90 Chlorobenzene	112		11.189				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.274				ND	
92 Ethylbenzene	91		11.274				ND	7
93 m-Xylene & p-Xylene	106		11.390				ND	7
94 o-Xylene	106		11.719				ND	7
95 Styrene	104		11.731				ND	7
96 Bromoform	173		11.896				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	93	972769	10.1	
101 1,1,2,2-Tetrachloroethane	83		12.262				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.042	13.042	0.000	94	1145177	10.0	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MSV_LLcentISS_00002 Amount Added: 5.00 Units: uL Run Reagent

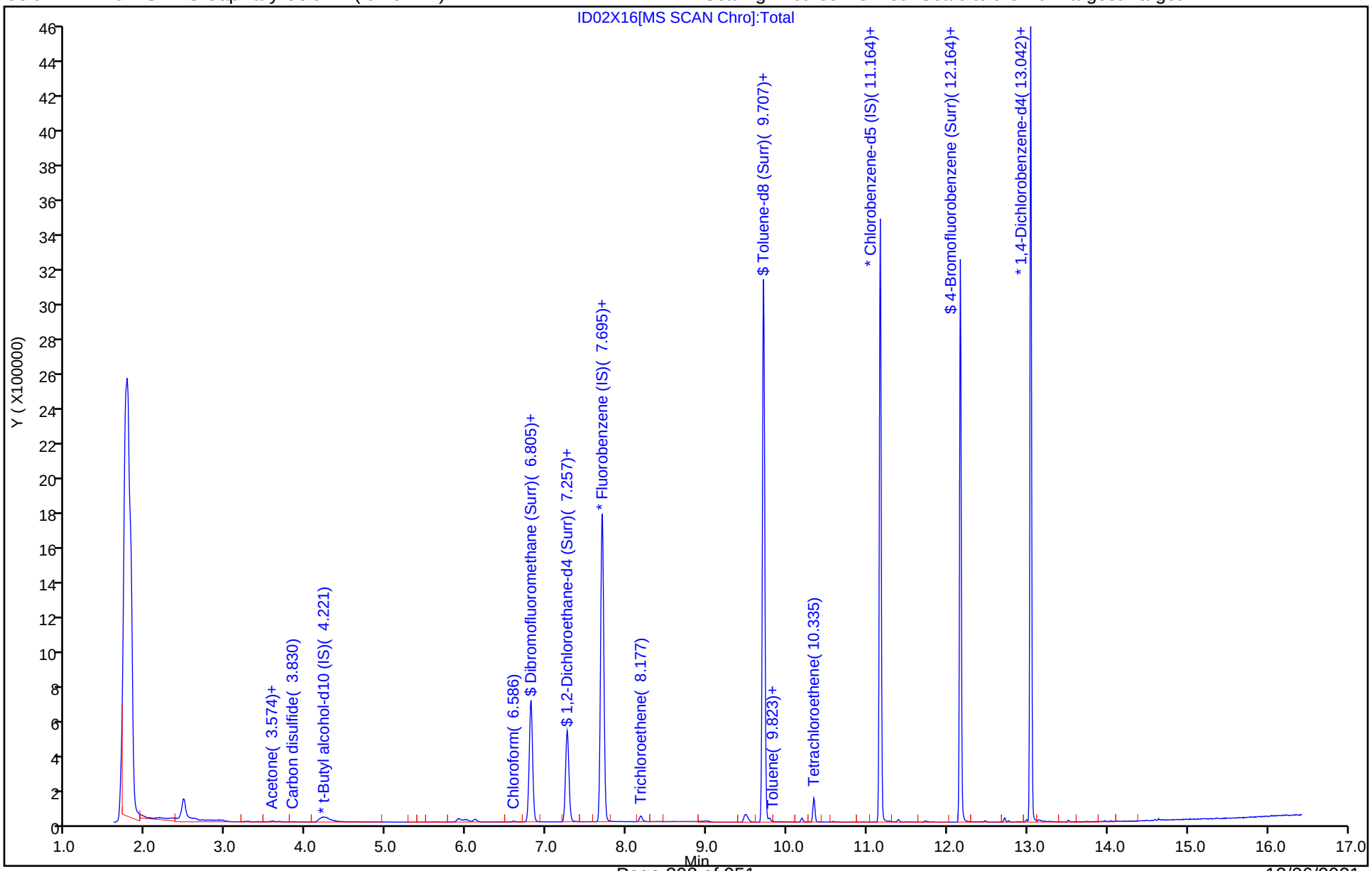
Report Date: 02-Dec-2021 18:52:23 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X16.D

Injection Date:	02-Dec-2021 15:41:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	410-64660-A-3	Lab Sample ID:	410-64660-3	Worklist Smp#:	17
Client ID:	HD-COD-SW-8-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X16.D				
Lims ID:	410-64660-A-3				
Client ID:	HD-COD-SW-8-0/1-0				
Sample Type:	Client				
Inject. Date:	02-Dec-2021 15:41:30	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0045342-017				
Misc. Info.:	410-64660-A-3				
Operator ID:	KNK41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	02-Dec-2021 18:51:26	Calib Date:	24-Aug-2021 02:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1601				

First Level Reviewer: beckerk Date: 02-Dec-2021 18:45:14

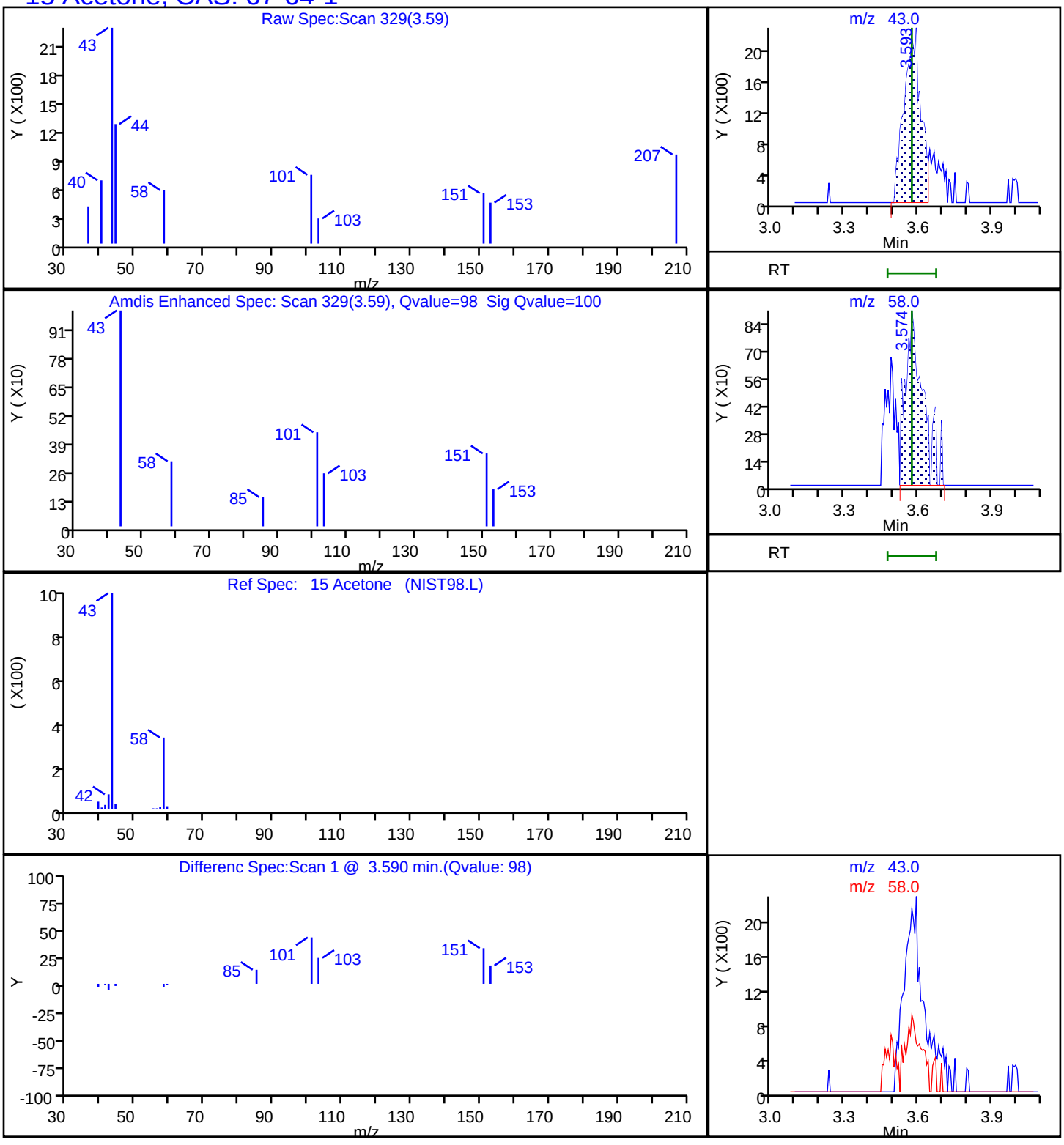
Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.1	101.22
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	101.08
$ 75 Toluene-d8 (Surr)	10.0	10.1	101.14
$ 100 4-Bromofluorobenzene (Surr)	10.0	10.1	100.74

Report Date: 02-Dec-2021 18:52:23 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X16.D				
Injection Date:	02-Dec-2021 15:41:30	Instrument ID:	19930		
Lims ID:	410-64660-A-3	Lab Sample ID:	410-64660-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

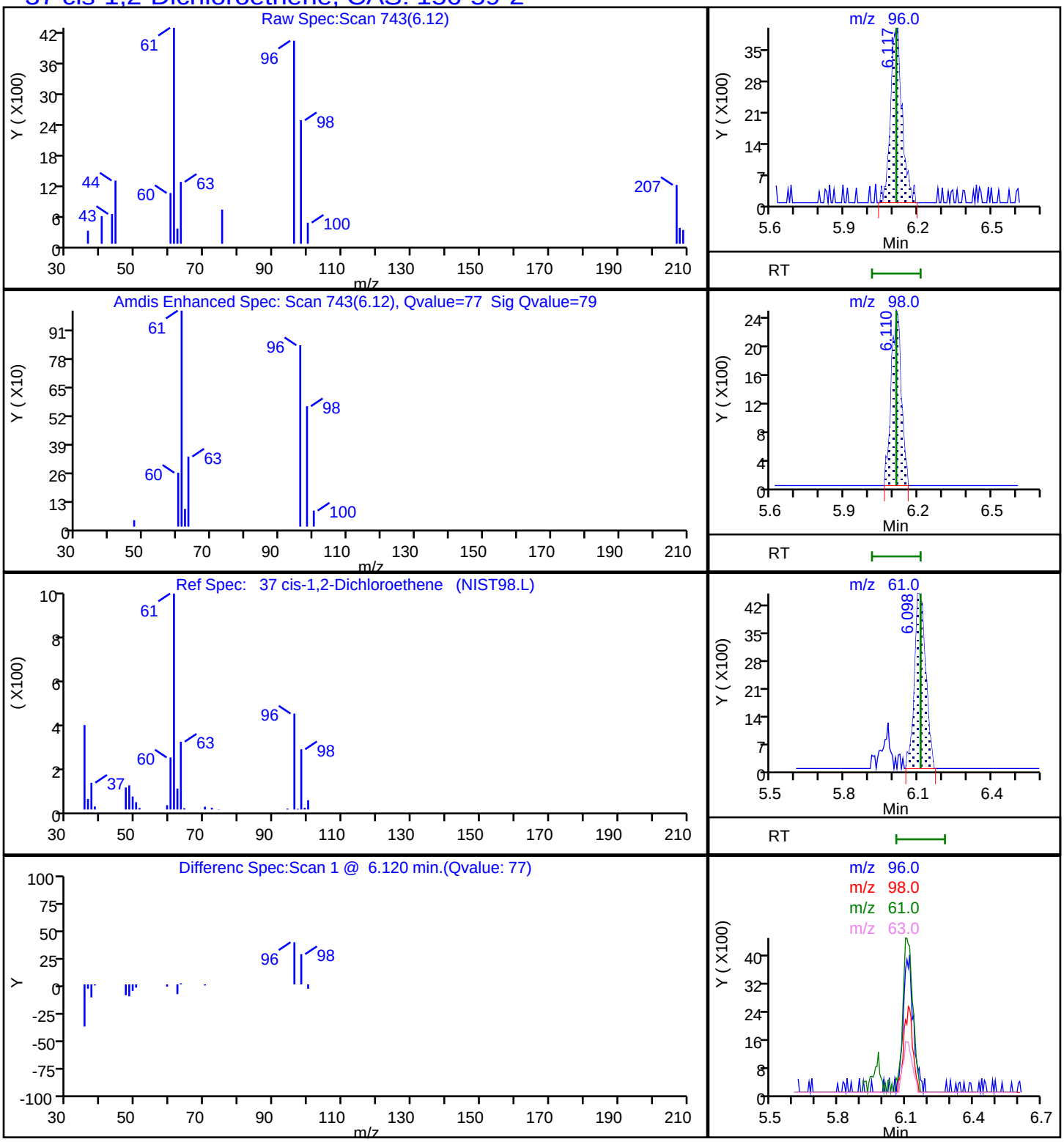
15 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X16.D				
Injection Date:	02-Dec-2021 15:41:30	Instrument ID:	19930		
Lims ID:	410-64660-A-3	Lab Sample ID:	410-64660-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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



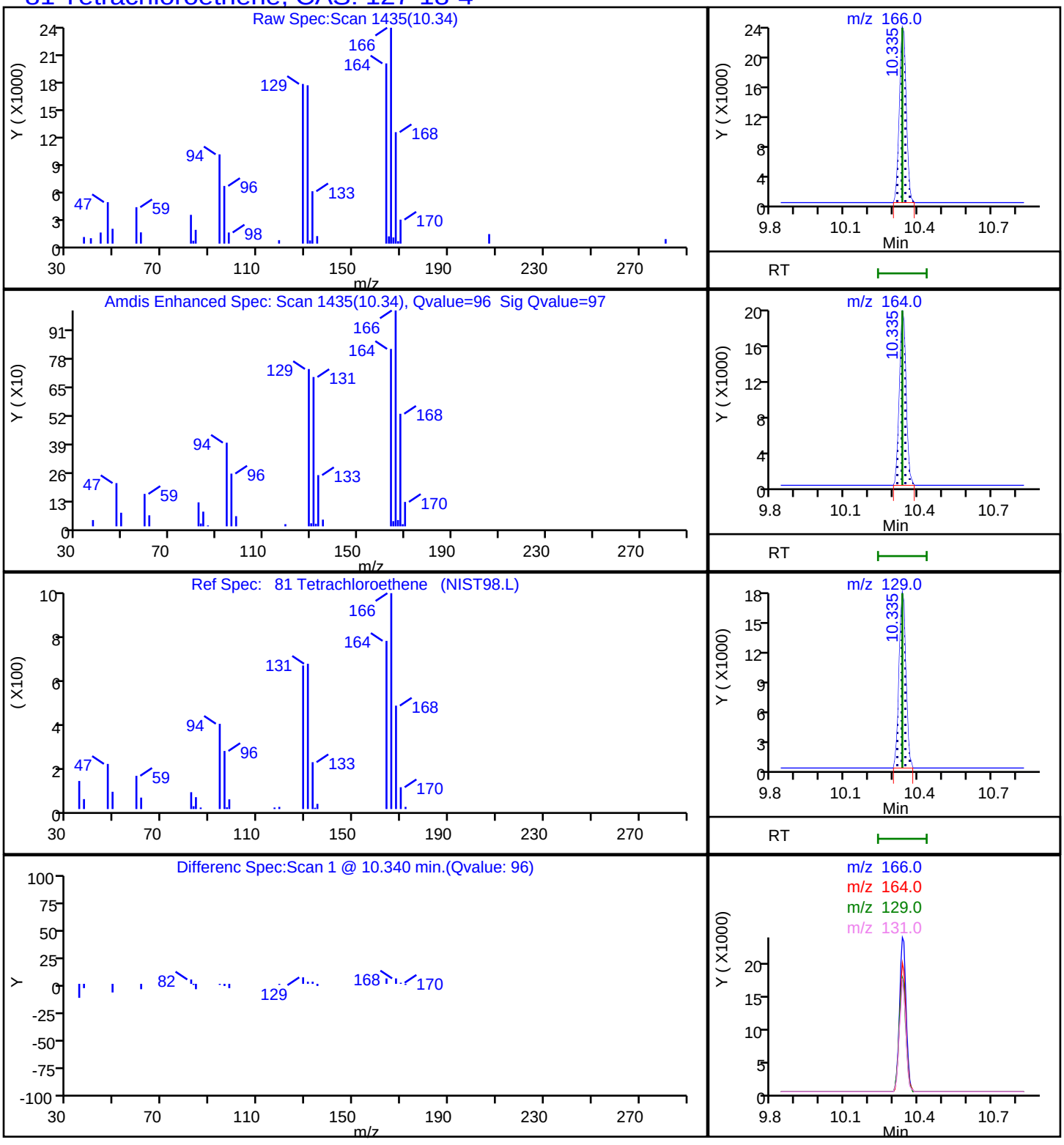
Report Date: 02-Dec-2021 18:52:24 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X16.D

Injection Date:	02-Dec-2021 15:41:30	Instrument ID:	19930		
Lims ID:	410-64660-A-3	Lab Sample ID:	410-64660-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

81 Tetrachloroethene, CAS: 127-18-4



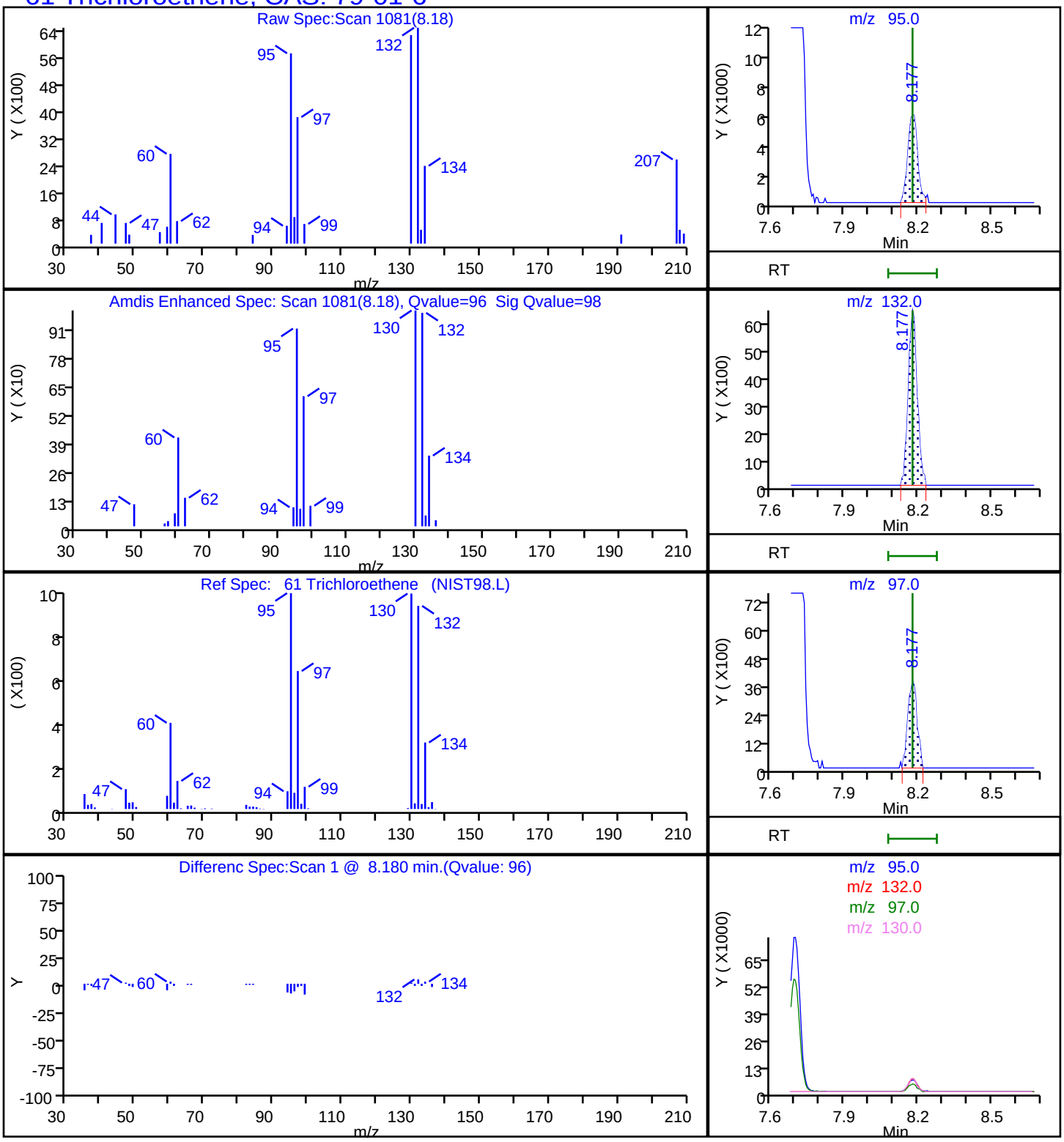
Report Date: 02-Dec-2021 18:52:24 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X16.D

Injection Date:	02-Dec-2021 15:41:30	Instrument ID:	19930		
Lims ID:	410-64660-A-3	Lab Sample ID:	410-64660-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

61 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

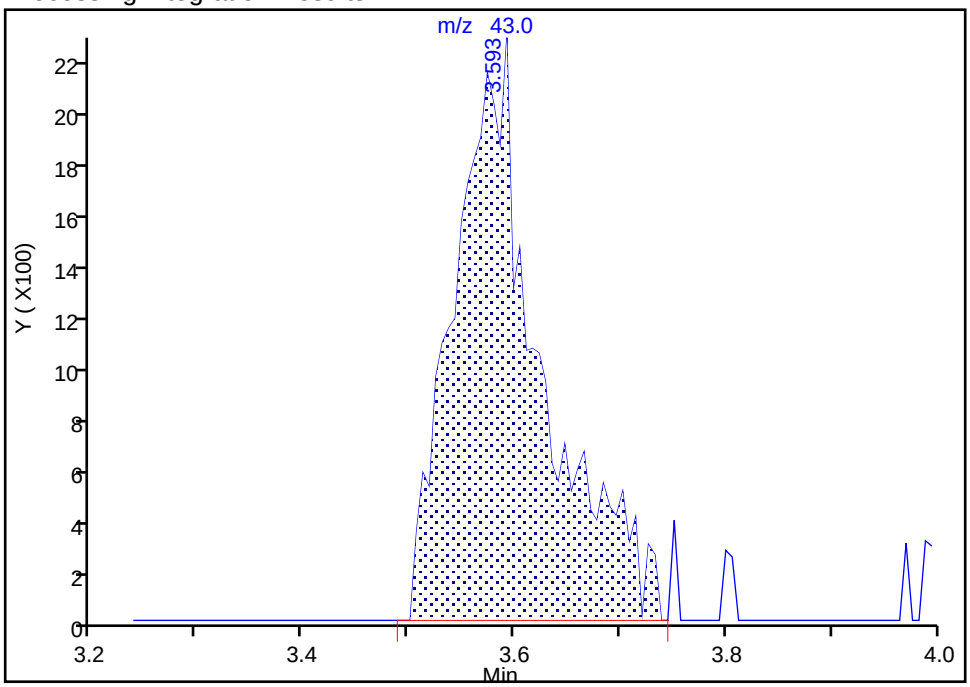
Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X16.D				
Injection Date:	02-Dec-2021 15:41:30	Instrument ID:	19930		
Lims ID:	410-64660-A-3	Lab Sample ID:	410-64660-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

15 Acetone, CAS: 67-64-1

Signal: 1

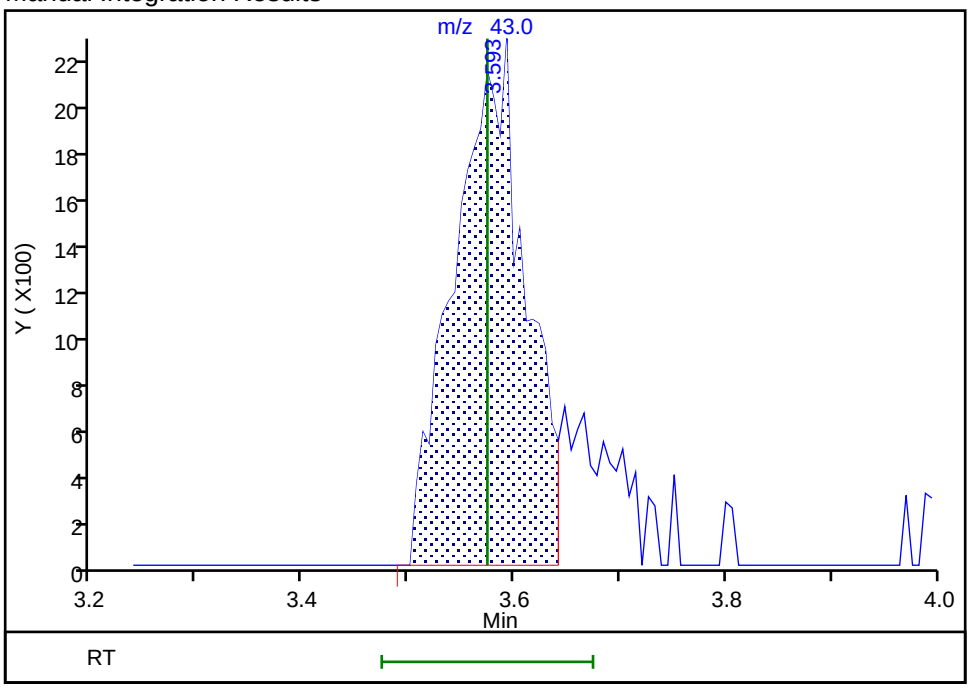
RT: 3.59
Area: 13067
Amount: 1.219518
Amount Units: ug/l

Processing Integration Results



RT: 3.59
Area: 10708
Amount: 0.999357
Amount Units: ug/l

Manual Integration Results



Reviewer: beckerk, 02-Dec-2021 18:44:51
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

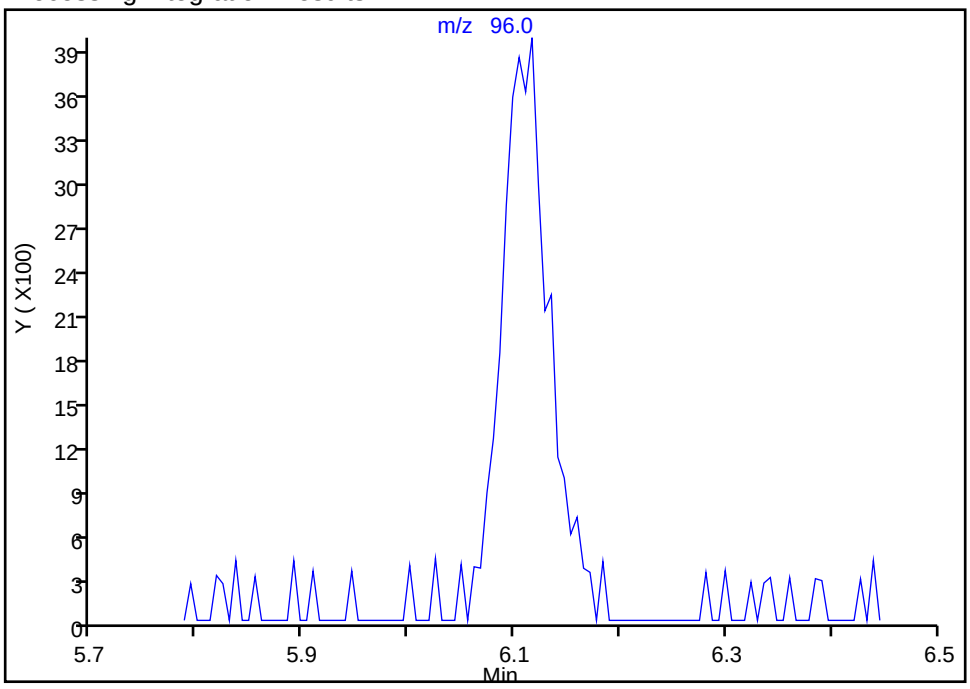
Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X16.D				
Injection Date:	02-Dec-2021 15:41:30	Instrument ID:	19930		
Lims ID:	410-64660-A-3	Lab Sample ID:	410-64660-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

Signal: 1

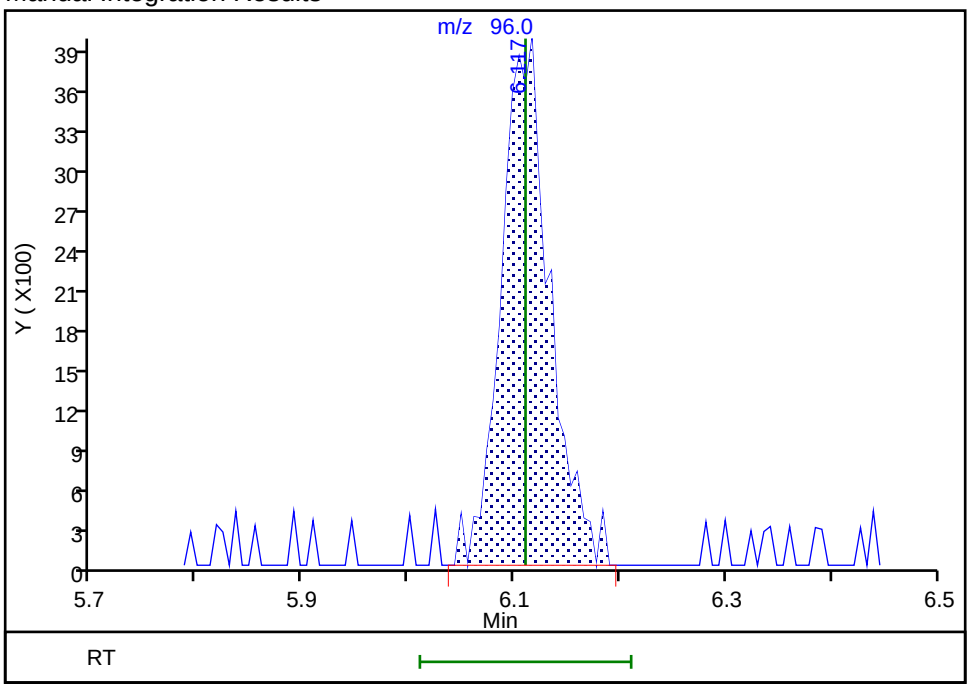
Not Detected
Expected RT: 6.11

Processing Integration Results



Manual Integration Results

RT: 6.12
Area: 12640
Amount: 0.171733
Amount Units: ug/l



Reviewer: beckerk, 02-Dec-2021 18:44:59
Audit Action: Assigned Compound ID Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-9-0/1-0 Lab Sample ID: 410-64660-4

Matrix: Water Lab File ID: ID02X17.D

Analysis Method: 8260D Date Collected: 11/23/2021 11:50

Sample wt/vol: 25(mL) Date Analyzed: 12/02/2021 16:02

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 200572 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND	^c	5.0	0.60
591-78-6	2-Hexanone	ND	^c *+	5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70
67-64-1	Acetone	1.6	J	5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	0.10	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.11	J	0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	0.19	J	0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	0.13	J	0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-9-0/1-0 Lab Sample ID: 410-64660-4

Matrix: Water Lab File ID: ID02X17.D

Analysis Method: 8260D Date Collected: 11/23/2021 11:50

Sample wt/vol: 25(mL) Date Analyzed: 12/02/2021 16:02

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 200572 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

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)	101		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X17.D
Lims ID: 410-64660-A-4
Client ID: HD-COD-SW-9-0/1-0
Sample Type: Client
Inject. Date: 02-Dec-2021 16:02:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045342-018
Misc. Info.: 410-64660-A-4
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 02-Dec-2021 18:51:26 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1601

First Level Reviewer: beckerk Date: 02-Dec-2021 18:45:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.142	2.166	-0.024	89	2735	0.0318	
5 Vinyl chloride	62		2.282				ND	
7 Bromomethane	94		2.611				ND	
8 Chloroethane	64		2.690				ND	
14 1,1-Dichloroethene	96		3.538				ND	7
15 Acetone	43	3.556	3.574	-0.018	96	14472	1.59	
19 Carbon disulfide	76	3.842	3.842	0.000	94	9191	0.0578	
23 Methylene Chloride	84		4.202				ND	7
* 24 t-Butyl alcohol-d10 (IS)	65	4.239	4.288	-0.049	19	163639	50.0	
27 Methyl tert-butyl ether	73		4.605				ND	
28 trans-1,2-Dichloroethene	96		4.617				ND	
31 1,1-Dichloroethane	63		5.275				ND	
36 2-Butanone (MEK)	43		6.080				ND	7
37 cis-1,2-Dichloroethene	96	6.110	6.110	0.000	75	7737	0.1062	
43 Chlorobromomethane	128		6.440				ND	
45 Chloroform	83	6.592	6.592	0.000	90	12025	0.1023	
$ 46 Dibromofluoromethane (Surr)	113	6.799	6.805	-0.006	94	615377	10.1	
47 1,1,1-Trichloroethane	97		6.818				ND	
50 Carbon tetrachloride	117		7.031				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.256	7.263	-0.007	83	127706	10.5	
54 Benzene	78		7.293				ND	7
56 1,2-Dichloroethane	62		7.366				ND	
* 58 Fluorobenzene (IS)	96	7.689	7.695	-0.006	99	2413073	10.0	
61 Trichloroethene	95	8.171	8.177	-0.006	98	9199	0.1262	
63 1,2-Dichloropropane	63		8.506				ND	
68 Dichlorobromomethane	83		8.854				ND	7
73 cis-1,3-Dichloropropene	75		9.396				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.567				ND	7
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2544080	10.1	
76 Toluene	92	9.780	9.786	-0.006	98	8086	0.0432	
78 trans-1,3-Dichloropropene	75		10.042				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
80 1,1,2-Trichloroethane	97		10.244				ND	
81 Tetrachloroethene	166	10.335	10.335	0.000	97	17053	0.1914	
83 2-Hexanone	43		10.457				ND	7
85 Chlorodibromomethane	129		10.622				ND	
86 Ethylene Dibromide	107		10.737				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	1951021	10.0	
90 Chlorobenzene	112		11.189				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.274				ND	
92 Ethylbenzene	91		11.274				ND	7
93 m-Xylene & p-Xylene	106		11.390				ND	7
94 o-Xylene	106		11.719				ND	7
95 Styrene	104		11.731				ND	7
96 Bromoform	173		11.896				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	93	961686	9.98	
101 1,1,2,2-Tetrachloroethane	83		12.262				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.042	13.042	0.000	94	1132434	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00002 Amount Added: 5.00 Units: uL Run Reagent

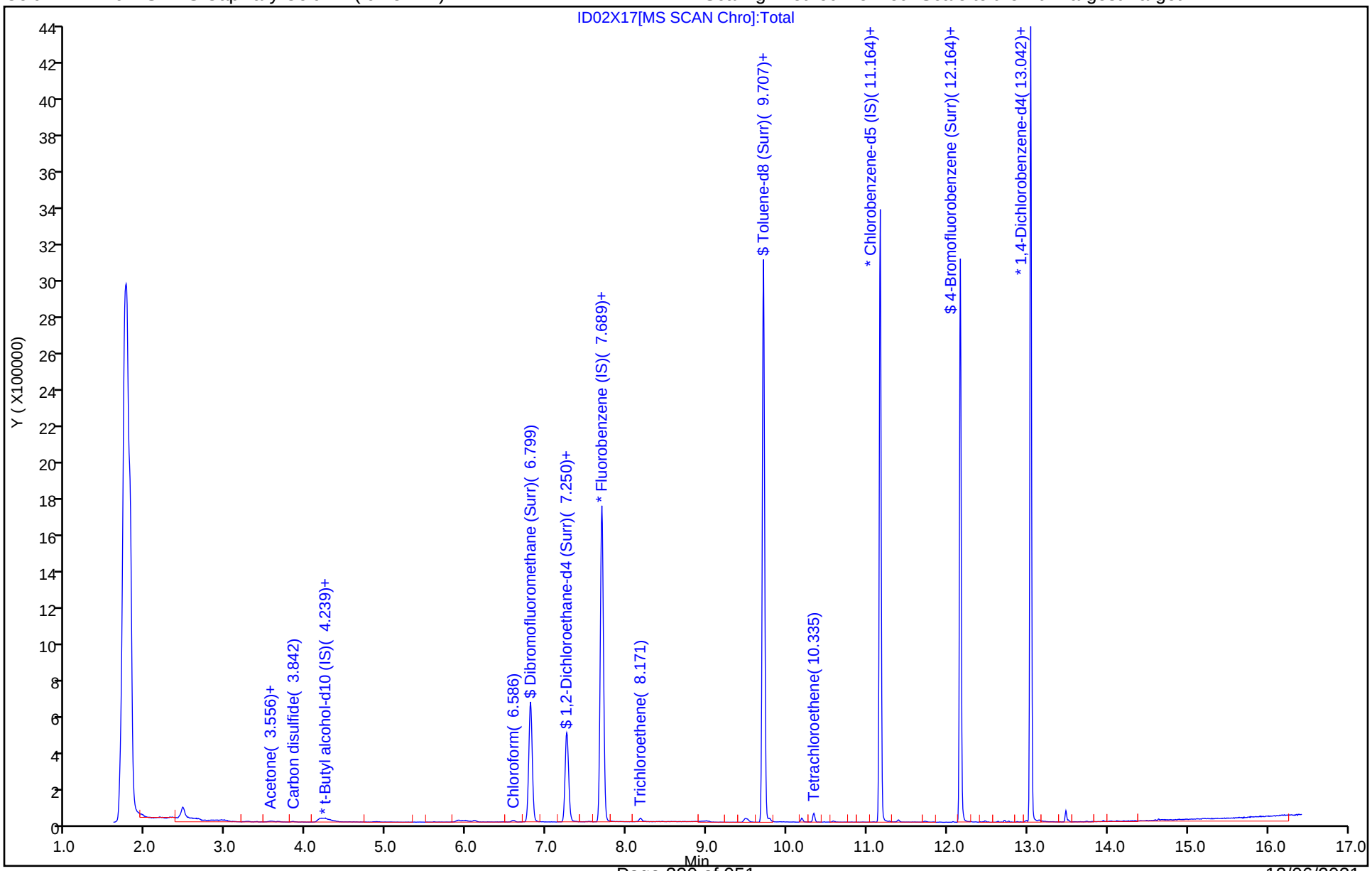
Report Date: 02-Dec-2021 18:52:25 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X17.D

Injection Date:	02-Dec-2021 16:02:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	410-64660-A-4	Lab Sample ID:	410-64660-4	Worklist Smp#:	18
Client ID:	HD-COD-SW-9-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X17.D				
Lims ID:	410-64660-A-4				
Client ID:	HD-COD-SW-9-0/1-0				
Sample Type:	Client				
Inject. Date:	02-Dec-2021 16:02:30	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0045342-018				
Misc. Info.:	410-64660-A-4				
Operator ID:	KNK41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	02-Dec-2021 18:51:26	Calib Date:	24-Aug-2021 02:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1601				

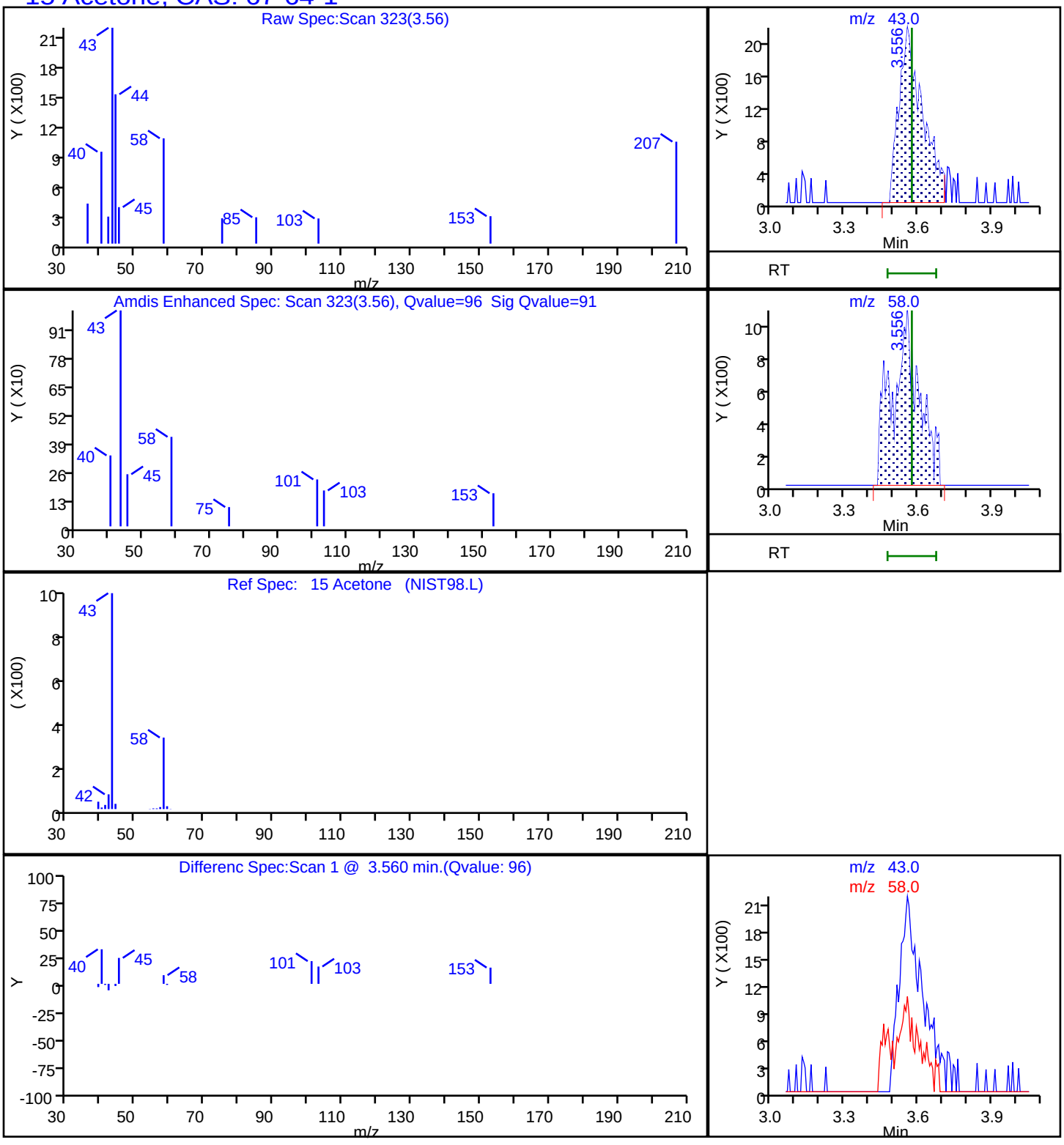
First Level Reviewer: beckerk Date: 02-Dec-2021 18:45:34

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.1	101.23
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.02
$ 75 Toluene-d8 (Surr)	10.0	10.1	100.90
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.98	99.80

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X17.D				
Injection Date:	02-Dec-2021 16:02:30	Instrument ID:	19930		
Lims ID:	410-64660-A-4	Lab Sample ID:	410-64660-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

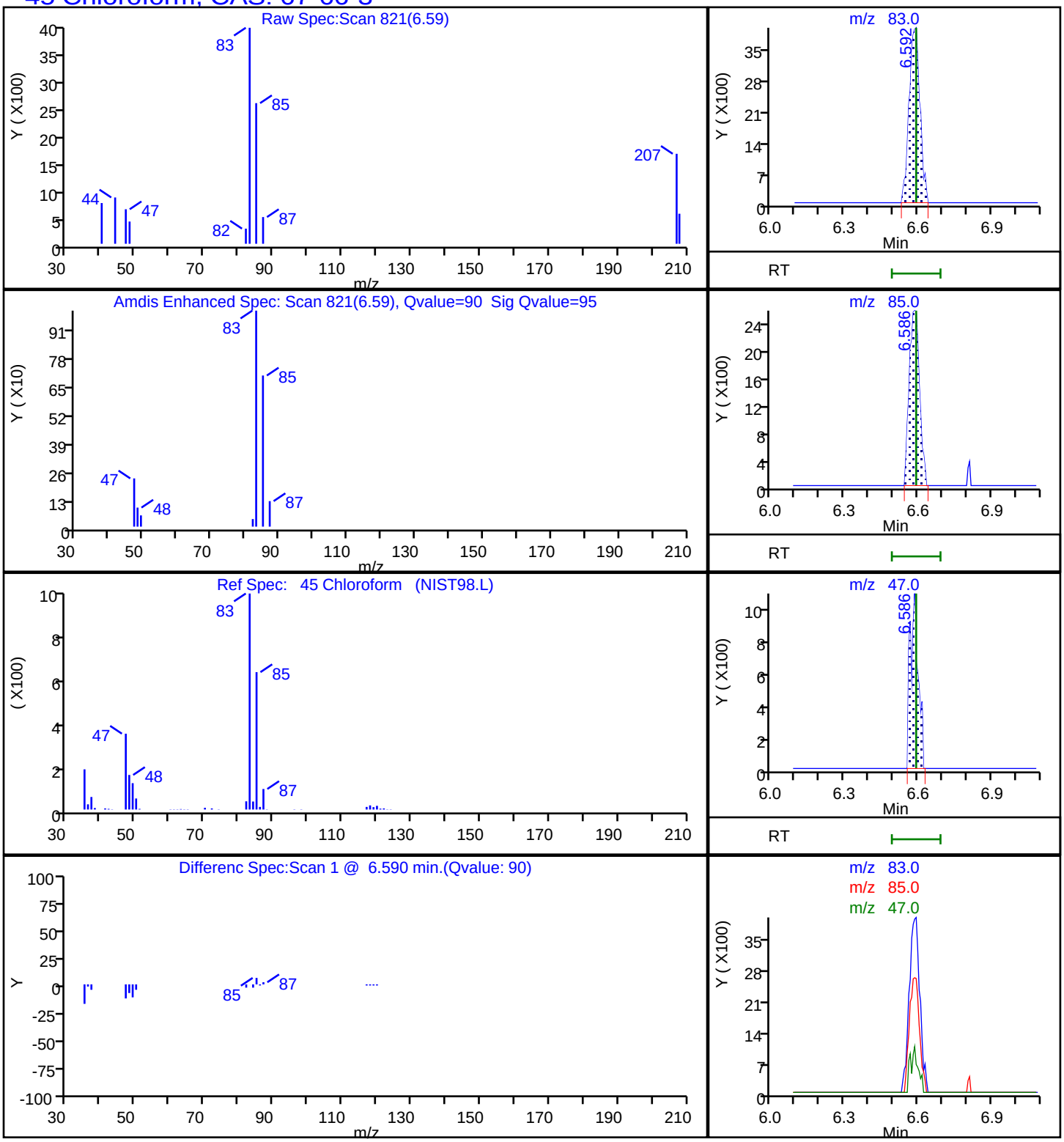
15 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X17.D				
Injection Date:	02-Dec-2021 16:02:30	Instrument ID:	19930		
Lims ID:	410-64660-A-4	Lab Sample ID:	410-64660-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

45 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Env, LLC

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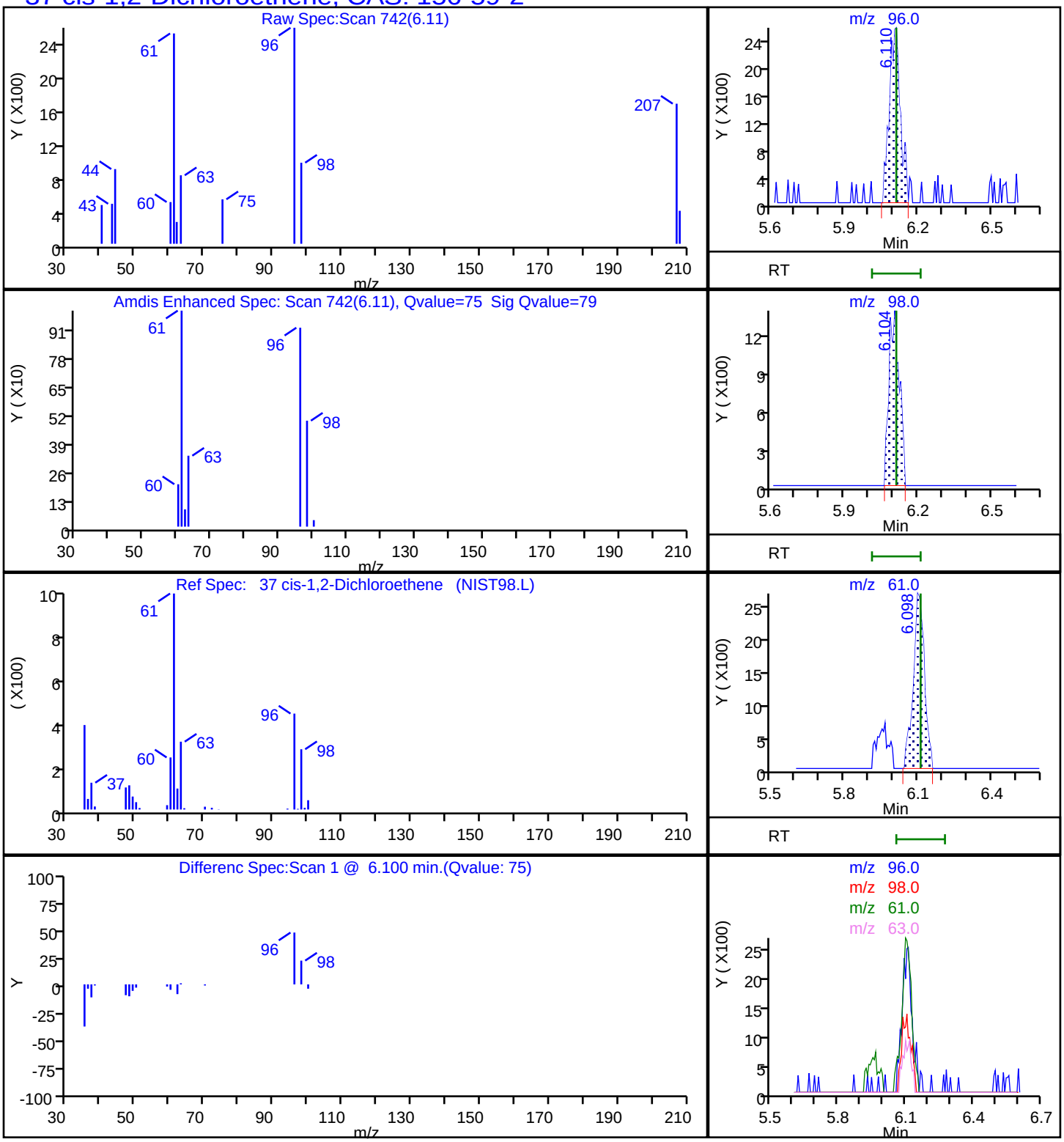
Injection Date:	02-Dec-2021 16:02:30	Instrument ID:	19930		
Lims ID:	410-64660-A-4	Lab Sample ID:	410-64660-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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



Eurofins Lancaster Laboratories Env, LLC

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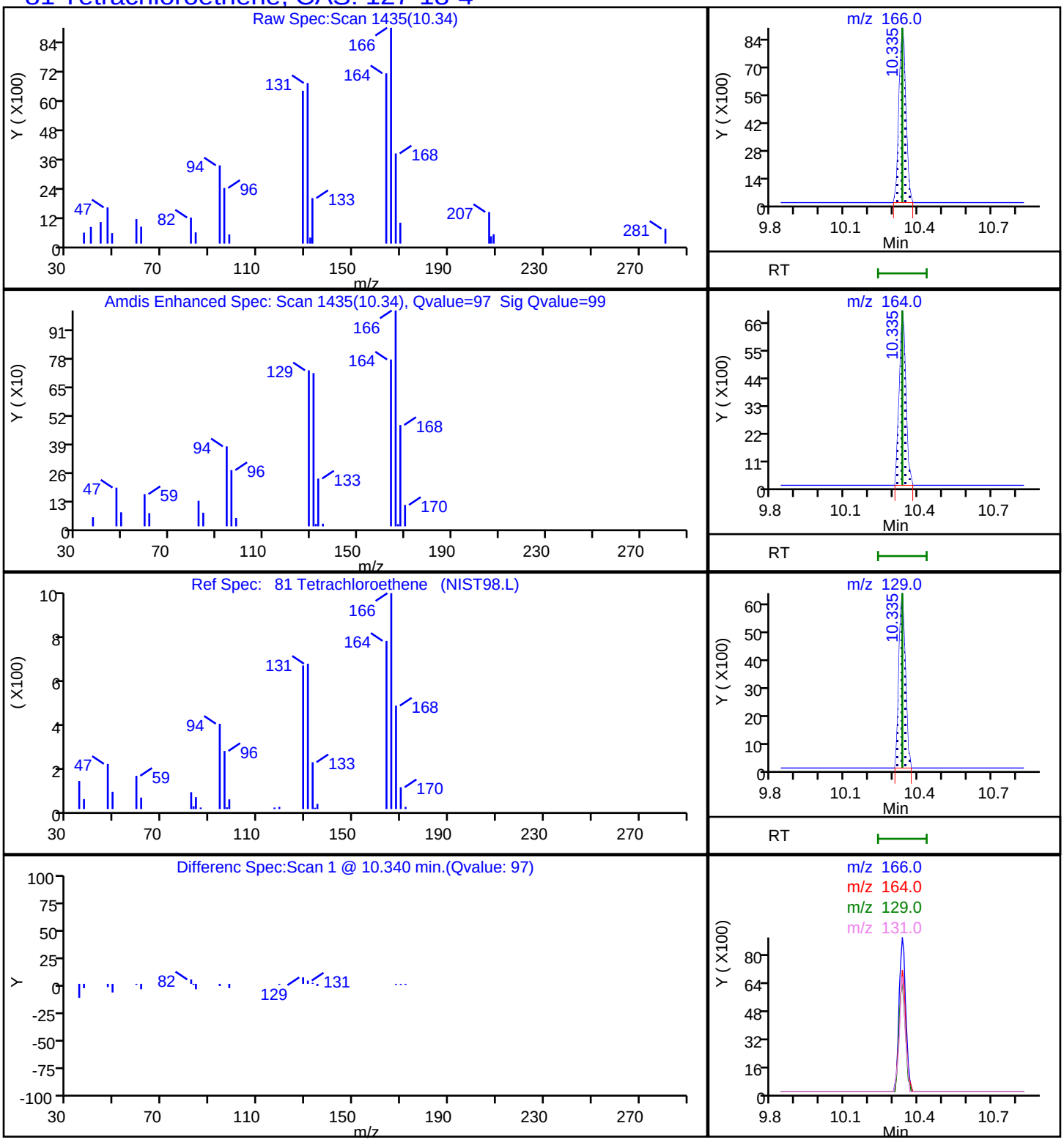
Injection Date:	02-Dec-2021 16:02:30	Instrument ID:	19930		
Lims ID:	410-64660-A-4	Lab Sample ID:	410-64660-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

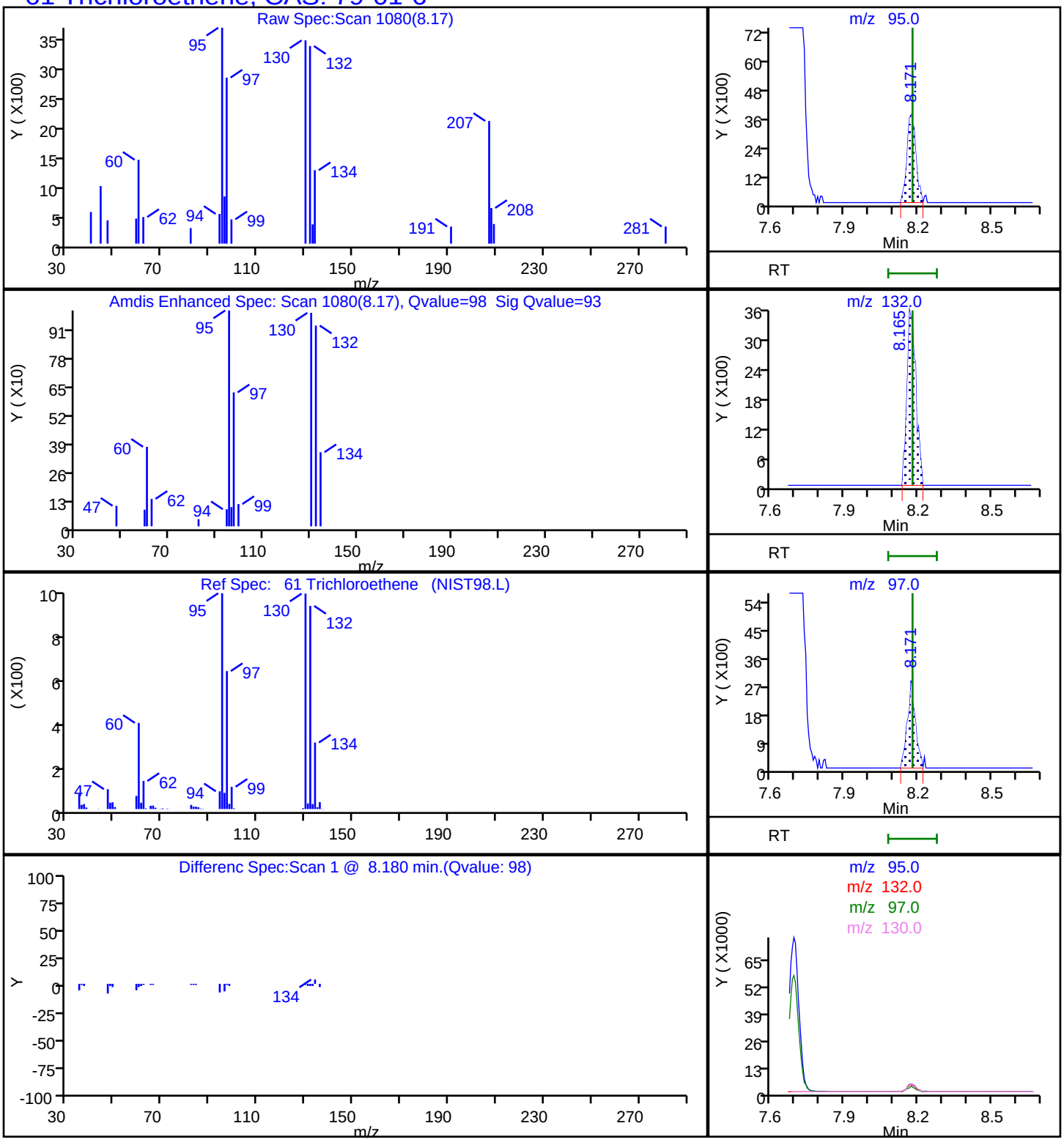
81 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X17.D				
Injection Date:	02-Dec-2021 16:02:30	Instrument ID:	19930		
Lims ID:	410-64660-A-4	Lab Sample ID:	410-64660-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

61 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-13-0/1-0 Lab Sample ID: 410-64660-5

Matrix: Water Lab File ID: ID02X18.D

Analysis Method: 8260D Date Collected: 11/23/2021 09:10

Sample wt/vol: 25(mL) Date Analyzed: 12/02/2021 16:23

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 200572 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND	^c	5.0	0.60
591-78-6	2-Hexanone	ND	^c *+	5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70
67-64-1	Acetone	0.91	J	5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.17	J	0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	0.56		0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	0.20	J	0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-13-0/1-0 Lab Sample ID: 410-64660-5

Matrix: Water Lab File ID: ID02X18.D

Analysis Method: 8260D Date Collected: 11/23/2021 09:10

Sample wt/vol: 25(mL) Date Analyzed: 12/02/2021 16:23

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 200572 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		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)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X18.D
Lims ID: 410-64660-A-5
Client ID: HD-COD-SW-13-0/1-0
Sample Type: Client
Inject. Date: 02-Dec-2021 16:23:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045342-019
Misc. Info.: 410-64660-A-5
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 02-Dec-2021 18:51:26 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1601

First Level Reviewer: beckerk Date: 02-Dec-2021 18:46:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.154	2.166	-0.012	92	4201	0.0485	
5 Vinyl chloride	62		2.282				ND	
7 Bromomethane	94		2.611				ND	7
8 Chloroethane	64		2.690				ND	
14 1,1-Dichloroethene	96		3.538				ND	7
15 Acetone	43	3.556	3.574	-0.018	86	7635	0.9113	M
19 Carbon disulfide	76	3.842	3.842	0.000	96	7647	0.0478	
23 Methylene Chloride	84		4.202				ND	7
* 24 t-Butyl alcohol-d10 (IS)	65	4.190	4.288	-0.098	18	150816	50.0	
27 Methyl tert-butyl ether	73		4.605				ND	
28 trans-1,2-Dichloroethene	96		4.617				ND	
31 1,1-Dichloroethane	63		5.275				ND	
36 2-Butanone (MEK)	43		6.080				ND	7
37 cis-1,2-Dichloroethene	96	6.104	6.110	-0.006	77	12371	0.1686	
43 Chlorobromomethane	128		6.440				ND	
45 Chloroform	83	6.586	6.592	-0.006	89	6208	0.0524	
$ 46 Dibromofluoromethane (Surr)	113	6.799	6.805	-0.006	94	613135	10.0	
47 1,1,1-Trichloroethane	97	6.811	6.818	-0.007	35	4730	0.0430	
50 Carbon tetrachloride	117		7.031				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.250	7.263	-0.013	83	123204	10.1	
54 Benzene	78		7.293				ND	7
56 1,2-Dichloroethane	62		7.366				ND	
* 58 Fluorobenzene (IS)	96	7.689	7.695	-0.006	99	2429647	10.0	
61 Trichloroethene	95	8.165	8.177	-0.012	95	14860	0.2024	
63 1,2-Dichloropropane	63		8.506				ND	
68 Dichlorobromomethane	83		8.854				ND	
73 cis-1,3-Dichloropropene	75		9.396				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.567				ND	7
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2544547	10.1	
76 Toluene	92	9.780	9.786	-0.006	98	9797	0.0522	
78 trans-1,3-Dichloropropene	75		10.042				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
80 1,1,2-Trichloroethane	97		10.244				ND	
81 Tetrachloroethene	166	10.335	10.335	0.000	96	49709	0.5559	
83 2-Hexanone	43		10.457				ND	
85 Chlorodibromomethane	129		10.622				ND	
86 Ethylene Dibromide	107		10.737				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	1958094	10.0	
90 Chlorobenzene	112		11.189				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.274				ND	
92 Ethylbenzene	91		11.274				ND	7
93 m-Xylene & p-Xylene	106	11.396	11.390	0.006	98	5902	0.0413	
94 o-Xylene	106		11.719				ND	7
95 Styrene	104		11.731				ND	7
96 Bromoform	173		11.896				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	94	961017	9.94	
101 1,1,2,2-Tetrachloroethane	83		12.262				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.042	13.042	0.000	94	1141609	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00002 Amount Added: 5.00 Units: uL Run Reagent

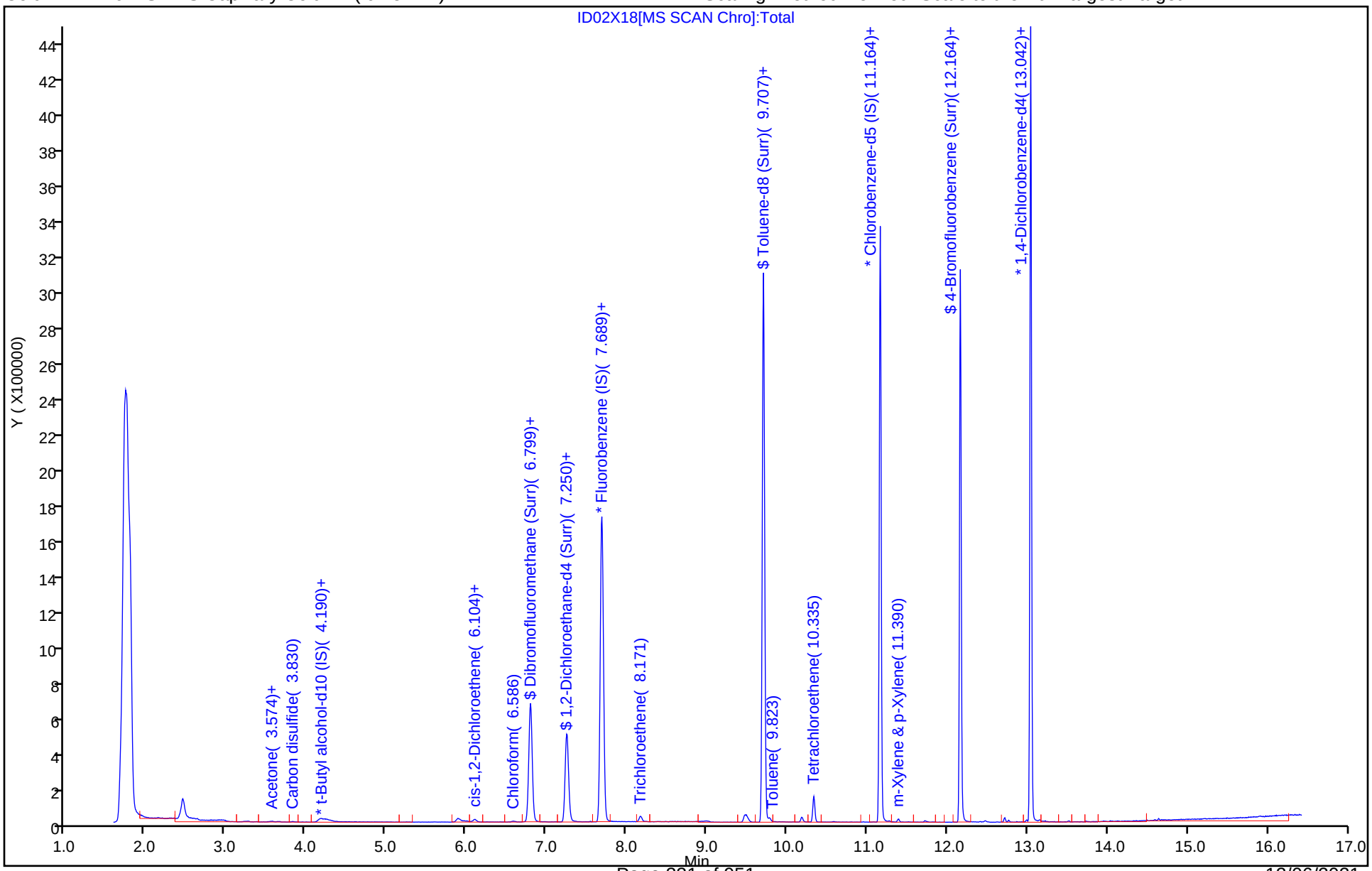
Report Date: 02-Dec-2021 18:52:26 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X18.D

Injection Date:	02-Dec-2021 16:23:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	410-64660-A-5	Lab Sample ID:	410-64660-5	Worklist Smp#:	19
Client ID:	HD-COD-SW-13-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X18.D				
Lims ID:	410-64660-A-5				
Client ID:	HD-COD-SW-13-0/1-0				
Sample Type:	Client				
Inject. Date:	02-Dec-2021 16:23:30	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0045342-019				
Misc. Info.:	410-64660-A-5				
Operator ID:	KNK41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	02-Dec-2021 18:51:26	Calib Date:	24-Aug-2021 02:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1601				

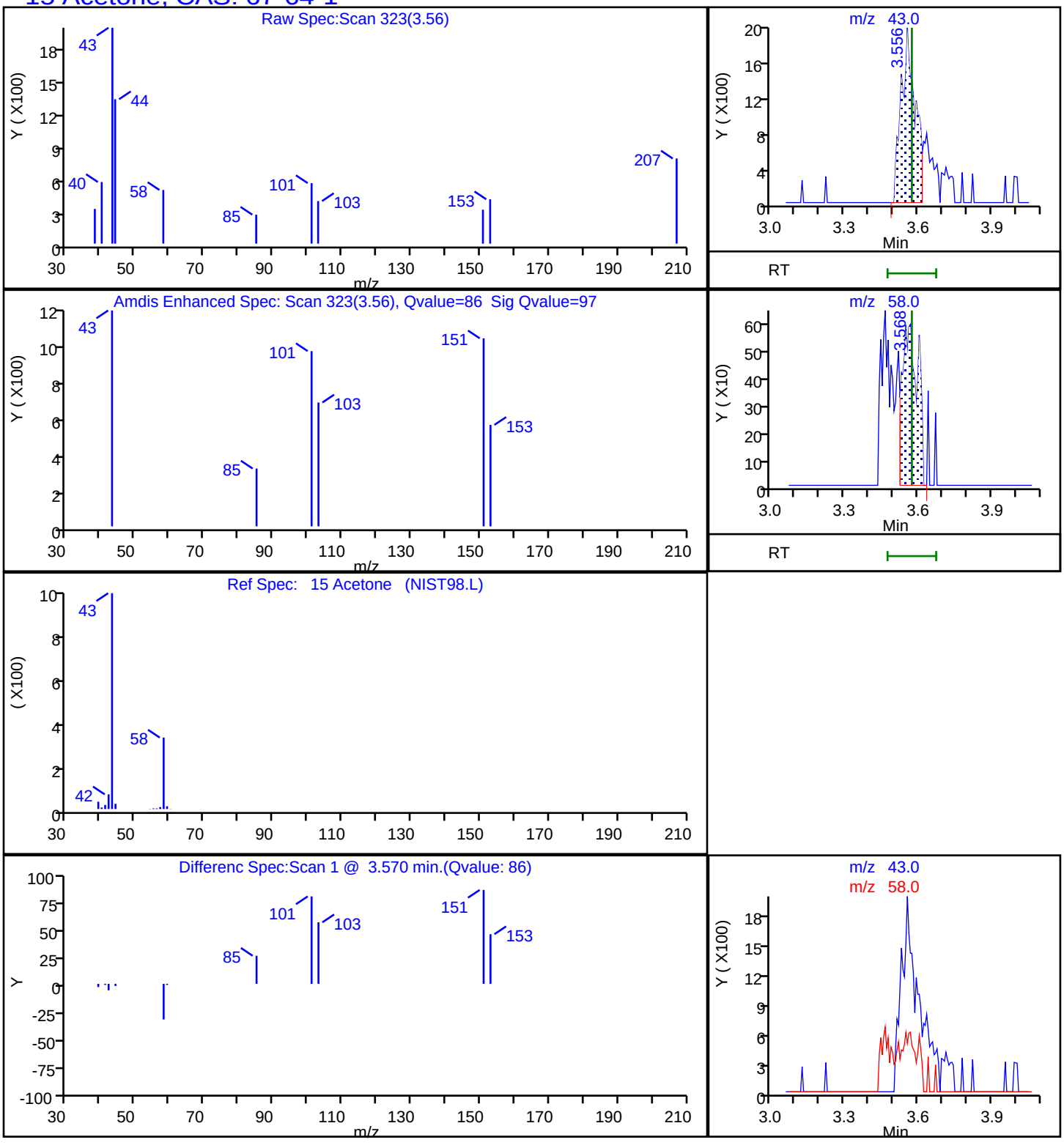
First Level Reviewer: beckerk Date: 02-Dec-2021 18:46:04

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.0	100.18
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	100.62
$ 75 Toluene-d8 (Surr)	10.0	10.1	100.56
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.94	99.37

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X18.D				
Injection Date:	02-Dec-2021 16:23:30	Instrument ID:	19930		
Lims ID:	410-64660-A-5	Lab Sample ID:	410-64660-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

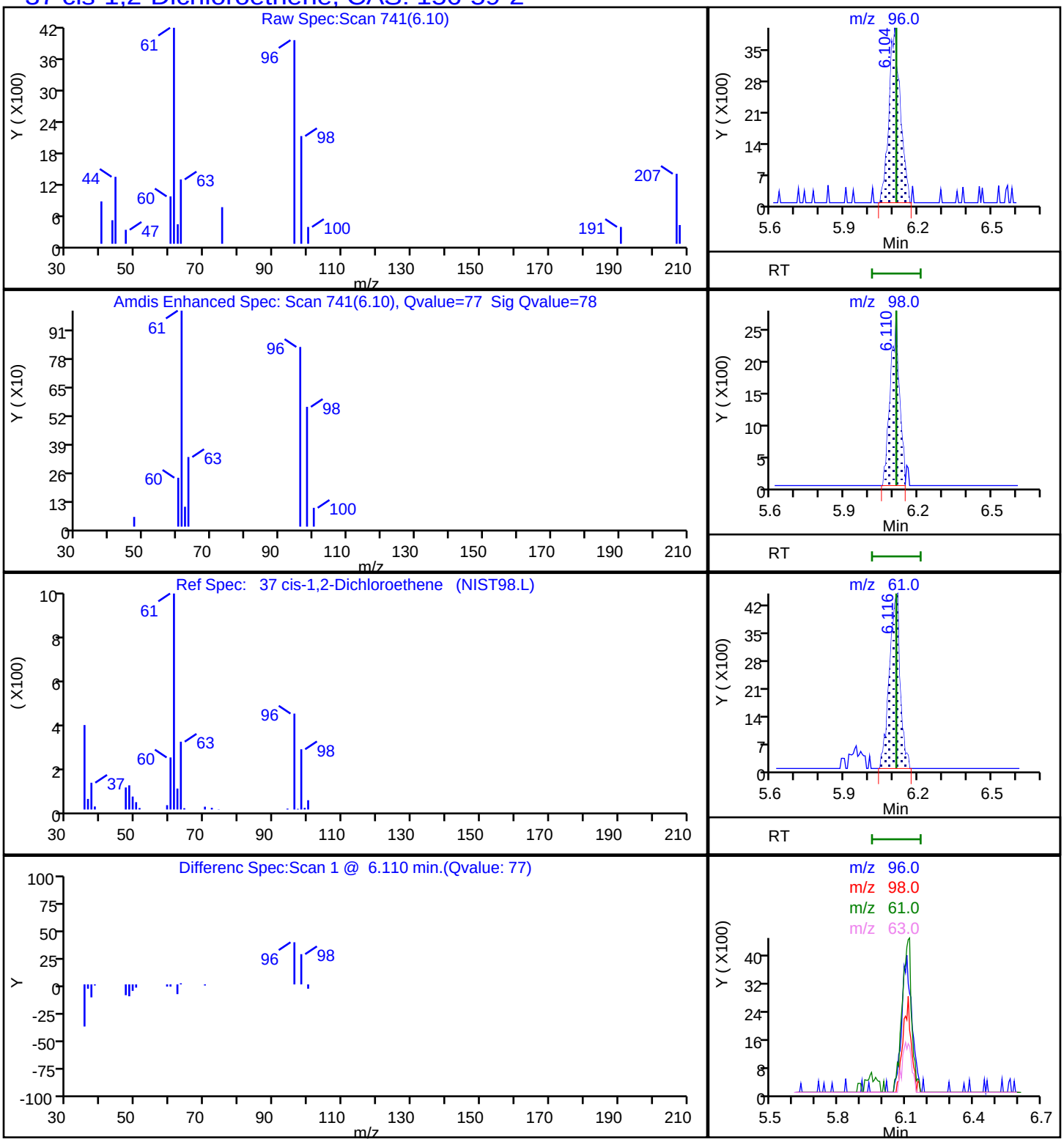
15 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X18.D				
Injection Date:	02-Dec-2021 16:23:30	Instrument ID:	19930		
Lims ID:	410-64660-A-5	Lab Sample ID:	410-64660-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

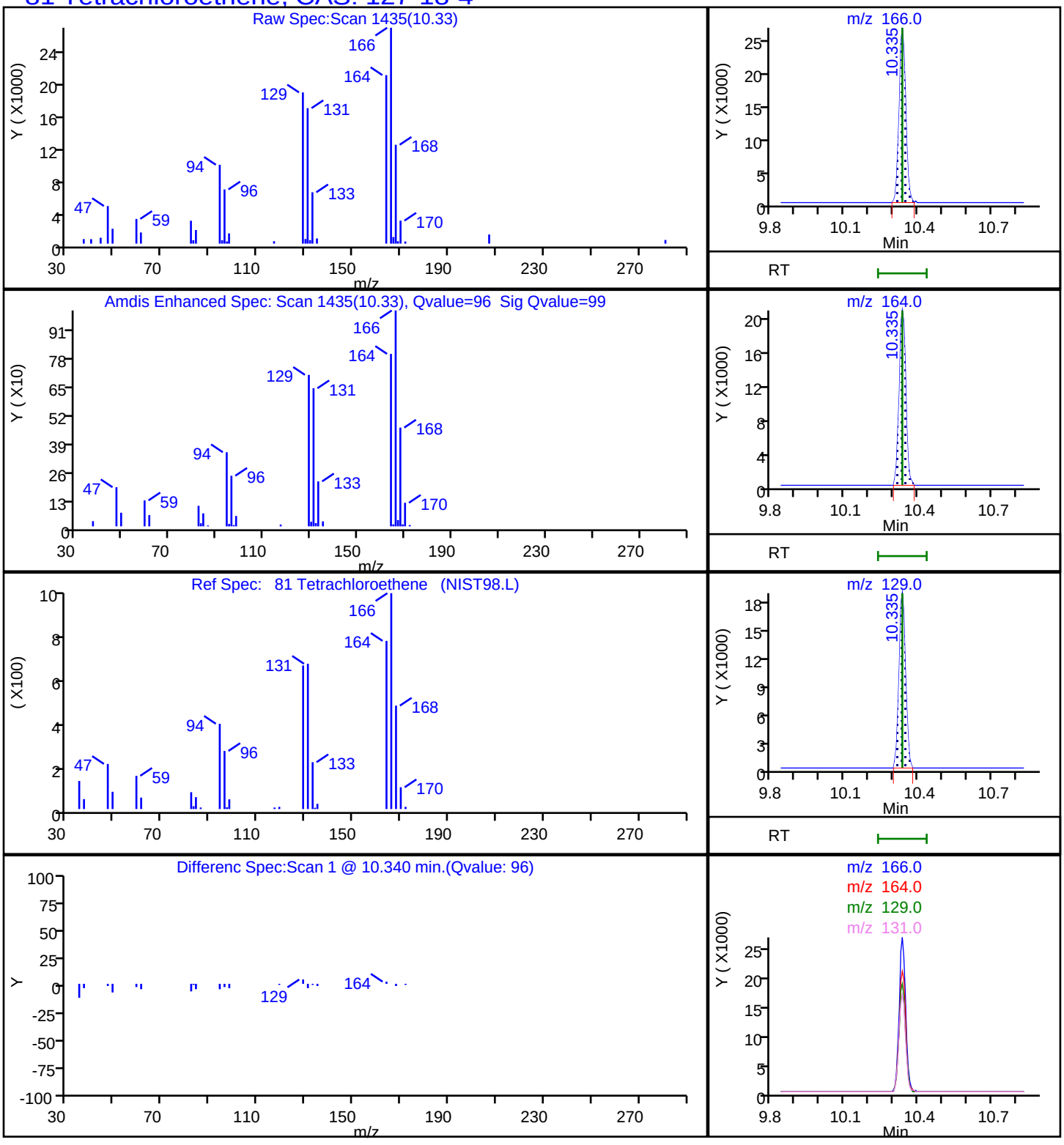
37 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X18.D				
Injection Date:	02-Dec-2021 16:23:30	Instrument ID:	19930		
Lims ID:	410-64660-A-5	Lab Sample ID:	410-64660-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

81 Tetrachloroethene, CAS: 127-18-4



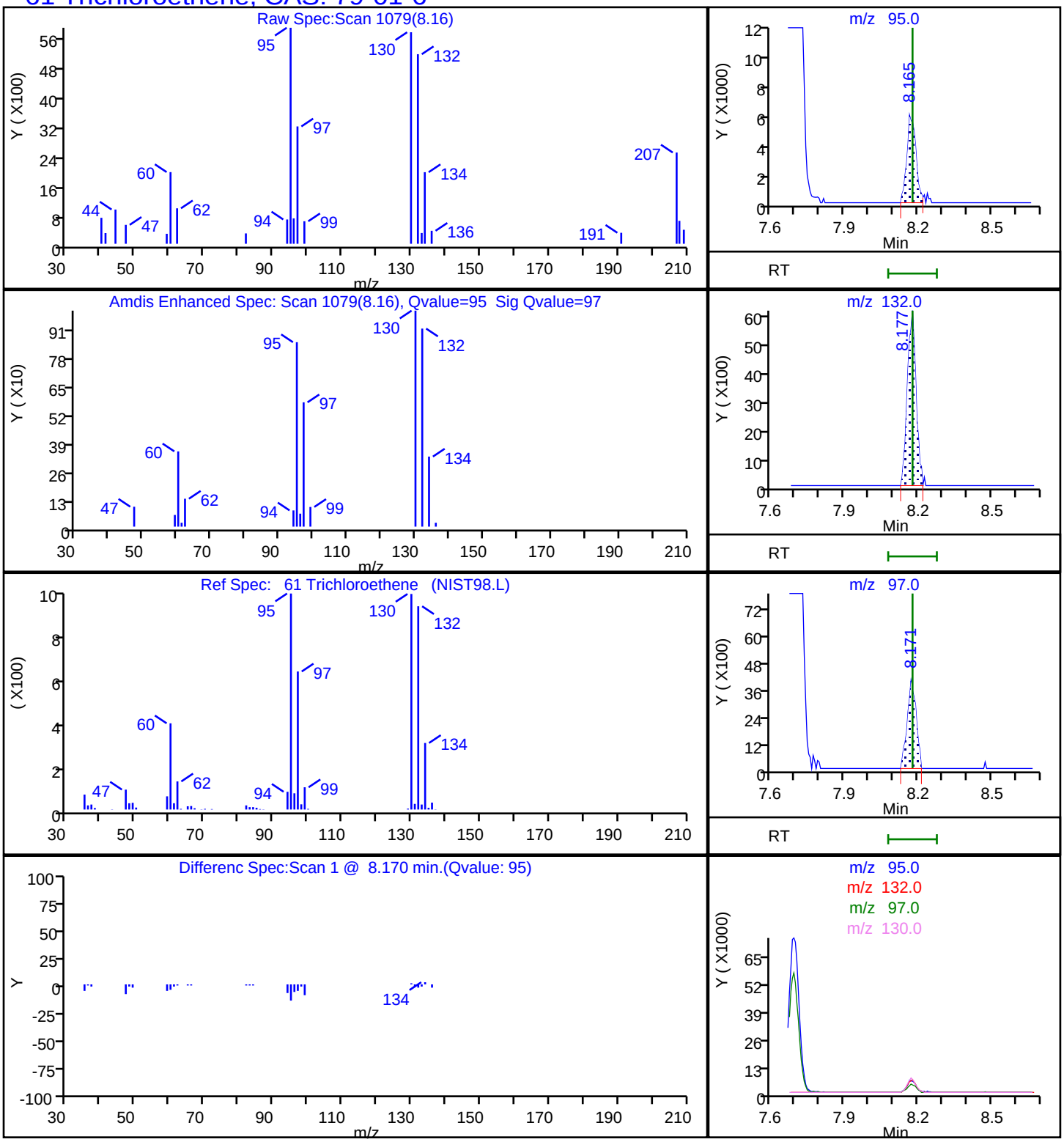
Report Date: 02-Dec-2021 18:52:26 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X18.D

Injection Date:	02-Dec-2021 16:23:30	Instrument ID:	19930		
Lims ID:	410-64660-A-5	Lab Sample ID:	410-64660-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

61 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

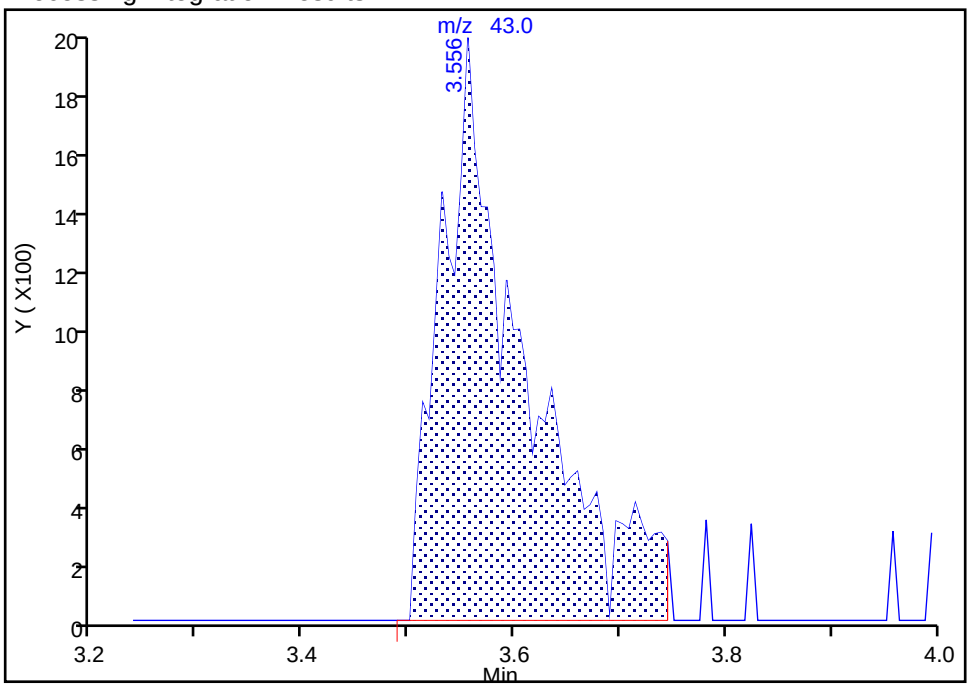
Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X18.D				
Injection Date:	02-Dec-2021 16:23:30	Instrument ID:	19930		
Lims ID:	410-64660-A-5	Lab Sample ID:	410-64660-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

15 Acetone, CAS: 67-64-1

Signal: 1

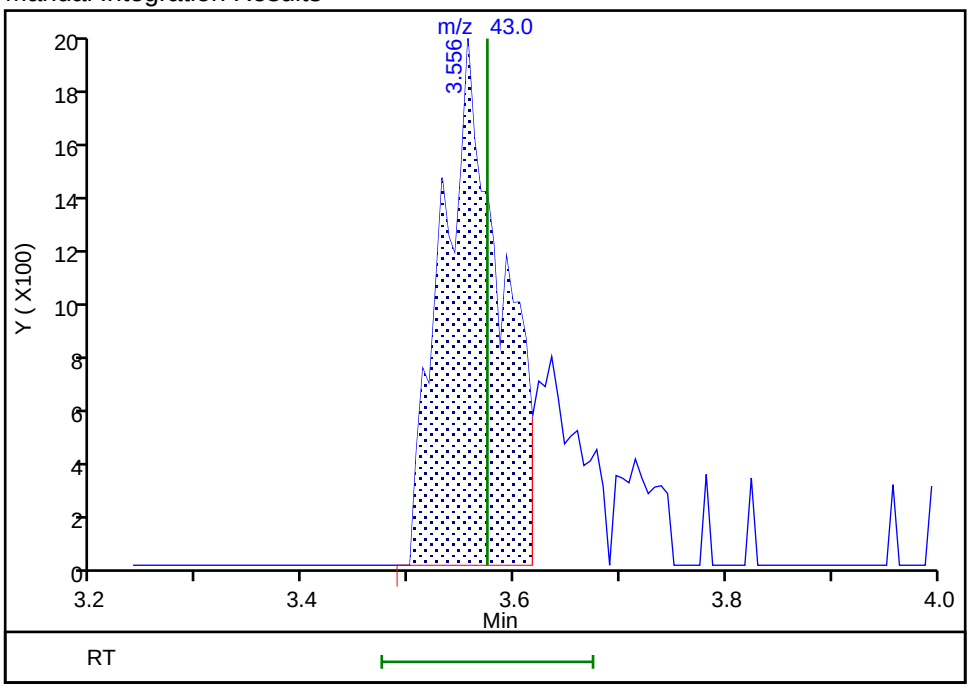
Processing Integration Results

RT: 3.56
Area: 10715
Amount: 1.278923
Amount Units: ug/l



Manual Integration Results

RT: 3.56
Area: 7635
Amount: 0.911300
Amount Units: ug/l



Reviewer: beckerk, 02-Dec-2021 18:45:46
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 Lab Sample ID: 410-64660-6

Matrix: Water Lab File ID: ID02X10.D

Analysis Method: 8260D Date Collected: 11/23/2021 11:05

Sample wt/vol: 25(mL) Date Analyzed: 12/02/2021 13:34

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 200572 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	0.19	J	0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	0.11	J	0.50	0.070
75-35-4	1,1-Dichloroethene	0.13	J	0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND	^c	5.0	0.60
591-78-6	2-Hexanone	ND	^c *+	5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	^c	5.0	0.70
67-64-1	Acetone	ND		5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	0.34	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.93		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	4.8		0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	1.1		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 Lab Sample ID: 410-64660-6

Matrix: Water Lab File ID: ID02X10.D

Analysis Method: 8260D Date Collected: 11/23/2021 11:05

Sample wt/vol: 25(mL) Date Analyzed: 12/02/2021 13:34

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 200572 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X10.D
Lims ID: 410-64660-A-6
Client ID: HD-COD-SW-15-0/1-0
Sample Type: Client
Inject. Date: 02-Dec-2021 13:34:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045241-011
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 02-Dec-2021 18:51:26 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1601

First Level Reviewer: beckerk Date: 02-Dec-2021 18:42:25

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1	Dichlorodifluoromethane	85		1.965				ND	
2	Chlorodifluoromethane	51		1.989				ND	
3	Dimethyl ether	45		2.050				ND	
4	Chloromethane	50		2.166				ND	7
6	Butadiene	39		2.276				ND	7
5	Vinyl chloride	62		2.282				ND	
7	Bromomethane	94		2.611				ND	
8	Chloroethane	64		2.690				ND	
9	Dichlorofluoromethane	67		2.922				ND	7
10	Trichlorofluoromethane	101		2.995				ND	
11	Ethyl ether	59		3.227				ND	
T 200	Ethanol TIC	45		3.288				ND	7
12	1,2-Dichloro-1,1,2-trifluoroetha	67		3.318				ND	7
13	Acrolein	56		3.404				ND	7
14	1,1-Dichloroethene	96	3.532	3.538	-0.006	96	7974	0.1335	
15	Acetone	43		3.574				ND	U
16	112TCTFE	101		3.580				ND	
17	Iodomethane	142		3.739				ND	
18	Ethyl bromide	108		3.763				ND	
19	Carbon disulfide	76		3.842				ND	7
21	Methyl acetate	43		3.983				ND	
20	Acetonitrile	41		3.995				ND	
22	3-Chloro-1-propene	41		4.013				ND	
23	Methylene Chloride	84		4.202				ND	
* 24	t-Butyl alcohol-d10 (IS)	65	4.190	4.288	-0.098	24	177219	50.0	
25	2-Methyl-2-propanol	59		4.397				ND	
26	Acrylonitrile	53		4.531				ND	
27	Methyl tert-butyl ether	73	4.623	4.605	0.018	97	7803	0.0458	
28	trans-1,2-Dichloroethene	96		4.617				ND	
29	Hexane	57		5.043				ND	
31	1,1-Dichloroethane	63	5.269	5.275	-0.006	95	13386	0.1087	
30	Vinyl acetate	43		5.312				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
32 Isopropyl ether	45		5.330				ND	
T 208 Vinyl acetate (TIC)	43		5.336				ND	
33 2-Chloro-1,3-butadiene	53		5.385				ND	
34 Tert-butyl ethyl ether	59		5.873				ND	7
36 2-Butanone (MEK)	43		6.080				ND	7
37 cis-1,2-Dichloroethene	96	6.104	6.110	-0.006	79	70278	0.9299	
38 2,2-Dichloropropane	77		6.129				ND	
S 35 1,2-Dichloroethene, Total	100				0		0.9299	
40 Propionitrile	54		6.177				ND	
39 Ethyl acetate	43		6.190				ND	
41 Methyl acrylate	55		6.220				ND	
42 Methacrylonitrile	67		6.372				ND	
43 Chlorobromomethane	128		6.440				ND	
44 Tetrahydrofuran	71		6.452				ND	
45 Chloroform	83	6.592	6.592	0.000	93	40897	0.3354	
$ 46 Dibromofluoromethane (Surr)	113	6.799	6.805	-0.006	94	636795	10.1	
47 1,1,1-Trichloroethane	97	6.824	6.818	0.006	60	21364	0.1885	
48 Cyclohexane	56		6.921				ND	
49 1-Chlorobutane	56		7.019				ND	
51 1,1-Dichloropropene	75		7.031				ND	
50 Carbon tetrachloride	117	7.025	7.031	-0.006	85	3771	0.0386	
52 Isobutyl alcohol	41		7.214				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.250	7.263	-0.013	83	127792	10.1	
54 Benzene	78		7.293				ND	7
56 1,2-Dichloroethane	62		7.366				ND	
55 Isopropyl acetate	43		7.415				ND	
57 Tert-amyl methyl ether	73		7.482				ND	
* 58 Fluorobenzene (IS)	96	7.689	7.695	-0.006	99	2502608	10.0	
59 n-Heptane	43		7.708				ND	7
60 n-Butanol	56		8.086				ND	
61 Trichloroethene	95	8.177	8.177	0.000	97	80294	1.06	
62 Methylcyclohexane	83		8.488				ND	
63 1,2-Dichloropropane	63		8.506				ND	
64 Methyl methacrylate	69		8.585				ND	
66 Dibromomethane	93		8.616				ND	
65 1,4-Dioxane	88		8.634				ND	U
67 n-Propyl acetate	43		8.707				ND	
68 Dichlorobromomethane	83		8.854				ND	
69 2-Nitropropane	41		9.116				ND	
70 Chloroacetonitrile	75		9.226				ND	
72 1-Bromo-2-chloroethane	63		9.244				ND	
71 2-Chloroethyl vinyl ether	63		9.256				ND	
73 cis-1,3-Dichloropropene	75		9.396				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.567				ND	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2614549	10.1	
76 Toluene	92	9.786	9.786	0.000	99	8470	0.0440	
T 150 Epibromohydrin TIC	57		10.000				ND	U
T 152 Vinyl bromide TIC	106		10.000				ND	U
T 153 Epichlorohydrin TIC	57		10.000				ND	U
T 154 2-Bromo-3-chloropropene TIC	75		10.000				ND	U
T 148 Monochloroacetic acid TIC	50		10.000				ND	U
T 155 Ethylene oxide TIC	44		10.000				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
T 149 2-Chloroethanol TIC	44		10.000				ND	U
T 156 2,3-Dibromopropene TIC	119		10.000				ND	U
T 147 2-Bromoethanol TIC	45		10.000				ND	U
T 151 Chloroacetaldehyde TIC	50		10.000				ND	U
T 146 2,3-Dibromo-1-propanol TIC	57		10.000				ND	U
T 157 3-Chloro-1,2-propanediol TIC	44		10.000				ND	U
78 trans-1,3-Dichloropropene	75		10.042				ND	
S 77 1,3-Dichloropropene, Total	100		10.060				ND	7
79 Ethyl methacrylate	69		10.103				ND	
80 1,1,2-Trichloroethane	97		10.244				ND	7
81 Tetrachloroethene	166	10.335	10.335	0.000	98	443153	4.83	
82 1,3-Dichloropropane	76		10.408				ND	
83 2-Hexanone	43		10.457				ND	
84 n-Butyl acetate	43		10.603				ND	
85 Chlorodibromomethane	129		10.622				ND	
86 Ethylene Dibromide	107		10.737				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	2009803	10.0	
88 1-Chlorohexane	91		11.170				ND	7
90 Chlorobenzene	112		11.189				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.274				ND	
92 Ethylbenzene	91		11.274				ND	7
93 m-Xylene & p-Xylene	106		11.390				ND	7
94 o-Xylene	106		11.719				ND	7
95 Styrene	104		11.731				ND	
96 Bromoform	173		11.896				ND	
97 Isopropylbenzene	105		12.018				ND	
98 cis-1,4-Dichloro-2-butene	88		12.079				ND	
99 Cyclohexanone	55		12.121				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	93	998994	10.1	
101 1,1,2,2-Tetrachloroethane	83		12.262				ND	
102 Bromobenzene	156		12.280				ND	
103 trans-1,4-Dichloro-2-butene	53		12.286				ND	
104 1,2,3-Trichloropropane	110		12.310				ND	
105 N-Propylbenzene	91		12.347				ND	7
106 2-Chlorotoluene	126		12.426				ND	
107 1,3,5-Trimethylbenzene	105		12.481				ND	7
108 4-Chlorotoluene	126		12.518				ND	
109 tert-Butylbenzene	134		12.725				ND	
110 Pentachloroethane	167		12.755				ND	
111 1,2,4-Trimethylbenzene	105		12.768				ND	7
112 sec-Butylbenzene	105		12.889				ND	
113 1,3-Dichlorobenzene	146		12.987				ND	
114 4-Isopropyltoluene	119		12.993				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.042	13.042	0.000	94	1168339	10.0	
116 1,4-Dichlorobenzene	146		13.060				ND	7
117 1,2,3-Trimethylbenzene	120		13.066				ND	7
118 Benzyl chloride	126		13.133				ND	7
119 n-Butylbenzene	92		13.286				ND	
120 1,2-Dichlorobenzene	146		13.316				ND	
121 Hexachloroethane	117		13.542				ND	U
122 1,2-Dibromo-3-Chloropropane	155		13.859				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
123 1,3,5-Trichlorobenzene	180		13.987				ND	7
124 1,2,4-Trichlorobenzene	180		14.407				ND	
125 Hexachlorobutadiene	225		14.493				ND	7
126 Naphthalene	128	14.590	14.590	0.000	95	6234	0.0297	
127 1,2,3-Trichlorobenzene	180		14.731				ND	7
128 Dodecane	57		0.000				ND	U
206 Pentachloroethane TIC	1		0.000				ND	
142 2-Bromo-1-chloropropane	1		0.000				ND	
131 tert-Butyl Formate	1		0.000				ND	
132 Methylal	1		0.000				ND	
133 t-Amyl alcohol	1		0.000				ND	
T 201 Isopropyl alcohol TIC	45		0.000				ND	U
134 Isopropyl alcohol	45		0.000				ND	
141 1-Chloropropane	1		0.000				ND	
129 Propene oxide	1		0.000				ND	
207 Acetonitrile TIC	1		0.000				ND	
130 Chlorotrifluoroethene	1		0.000				ND	
204 Pentane	43		0.000				ND	
143 n-Decane	57		0.000				ND	
139 1-Bromo-3-Chloropropane	1		0.000				ND	
205 1,1-Dichloroacetone	1		0.000				ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	
136 2-Chloro-1,1,1-Trifluoroethane	1		0.000				ND	
135 p-Diethylbenzene	1		0.000				ND	
137 2-Methylnaphthalene	142		0.000				ND	
138 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
202 1,3-Dichloro-2-propanol TIC	1		0.000				ND	
203 Propargyl alcohol TIC	1		0.000				ND	
140 Ethanol	45		3.269				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_LLcentISS_00002 Amount Added: 5.00 Units: uL Run Reagent

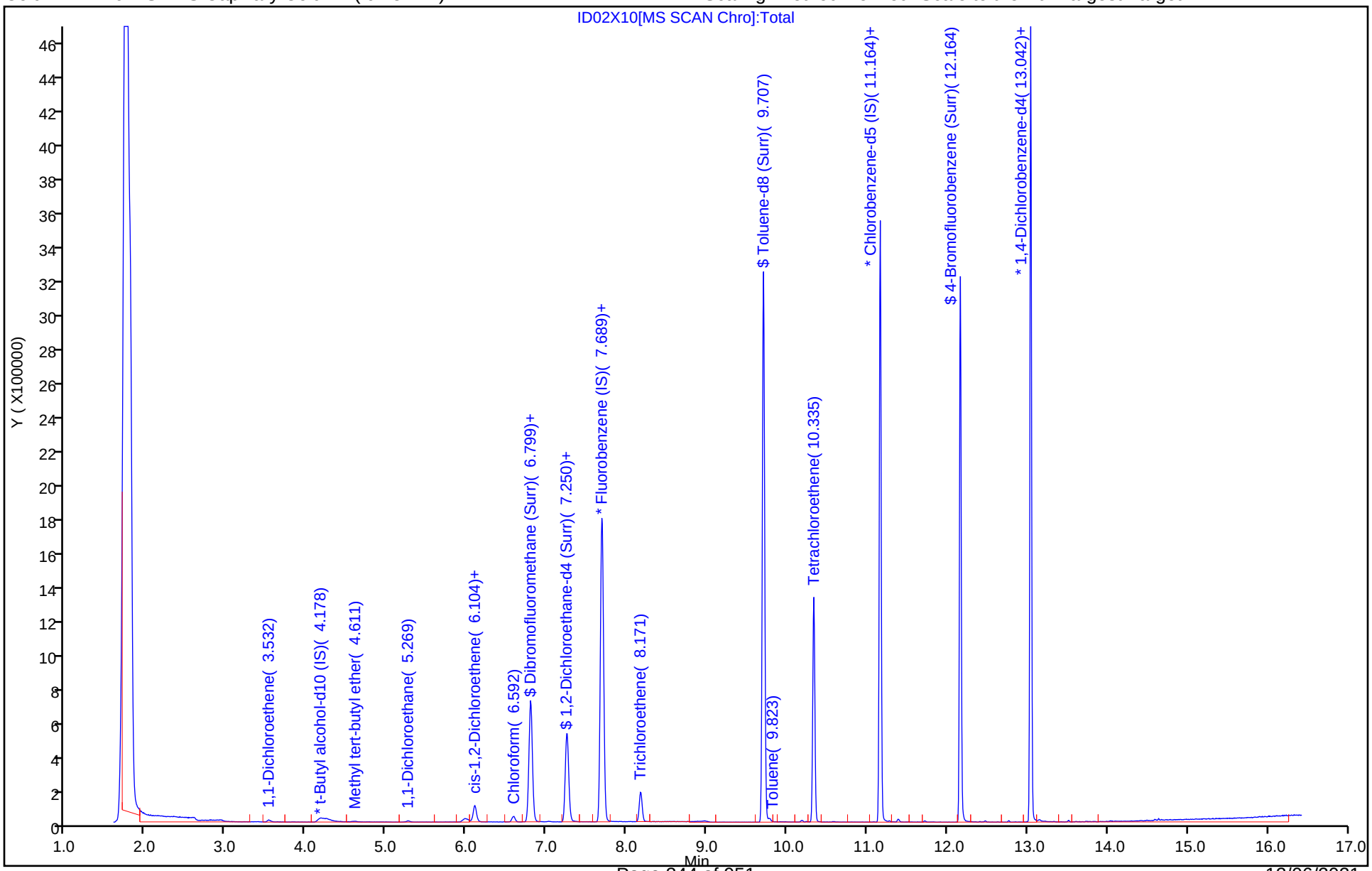
Report Date: 02-Dec-2021 18:52:37 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X10.D

Injection Date:	02-Dec-2021 13:34:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	410-64660-A-6	Lab Sample ID:	410-64660-6	Worklist Smp#:	11
Client ID:	HD-COD-SW-15-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X10.D				
Lims ID:	410-64660-A-6				
Client ID:	HD-COD-SW-15-0/1-0				
Sample Type:	Client				
Inject. Date:	02-Dec-2021 13:34:30	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0045241-011				
Operator ID:	KNK41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	02-Dec-2021 18:51:26	Calib Date:	24-Aug-2021 02:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1601				

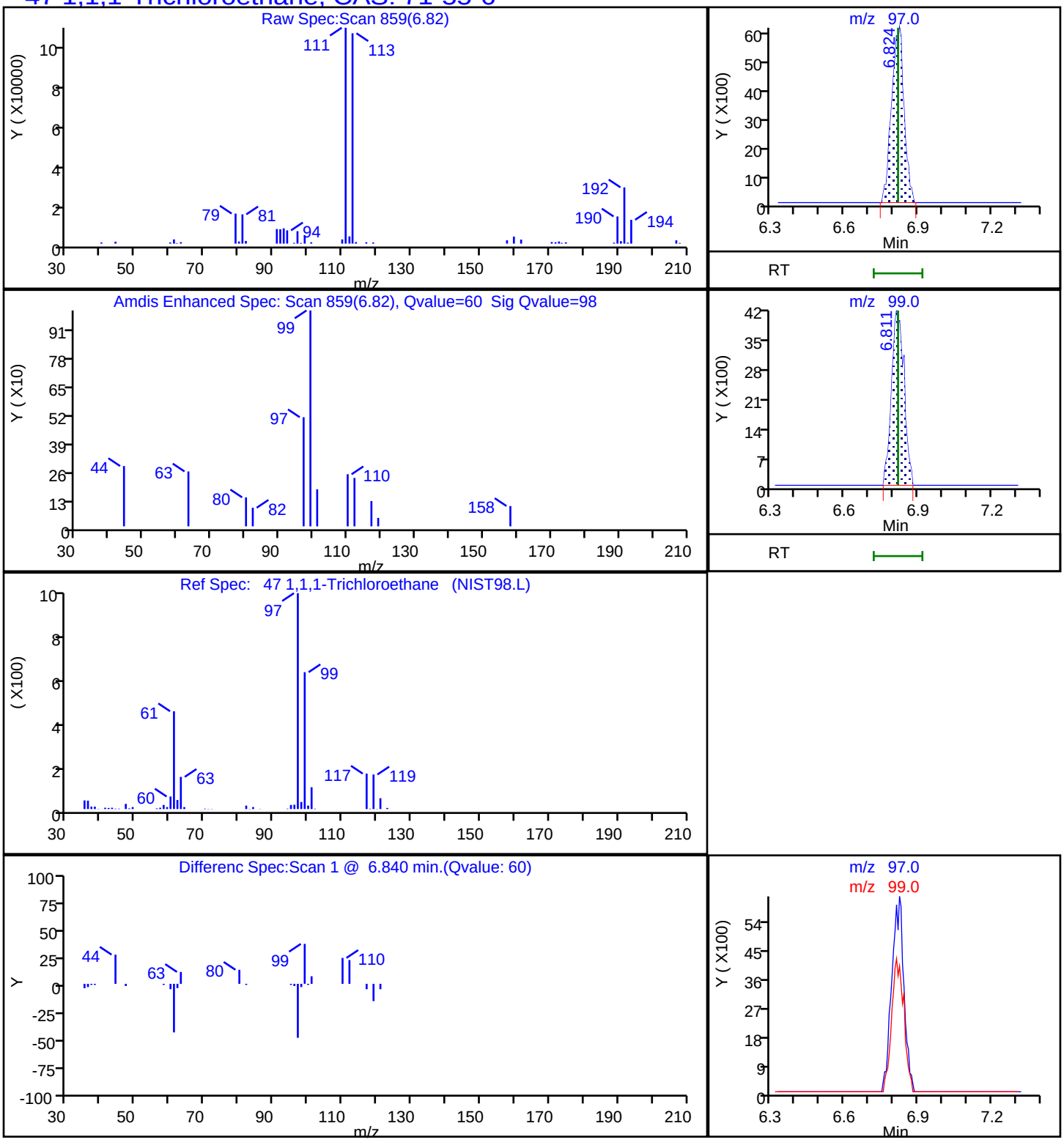
First Level Reviewer: beckerk Date: 02-Dec-2021 18:42:25

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.1	101.01
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	101.33
$ 75 Toluene-d8 (Surr)	10.0	10.1	100.66
$ 100 4-Bromofluorobenzene (Surr)	10.0	10.1	100.64

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X10.D				
Injection Date:	02-Dec-2021 13:34:30	Instrument ID:	19930		
Lims ID:	410-64660-A-6	Lab Sample ID:	410-64660-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

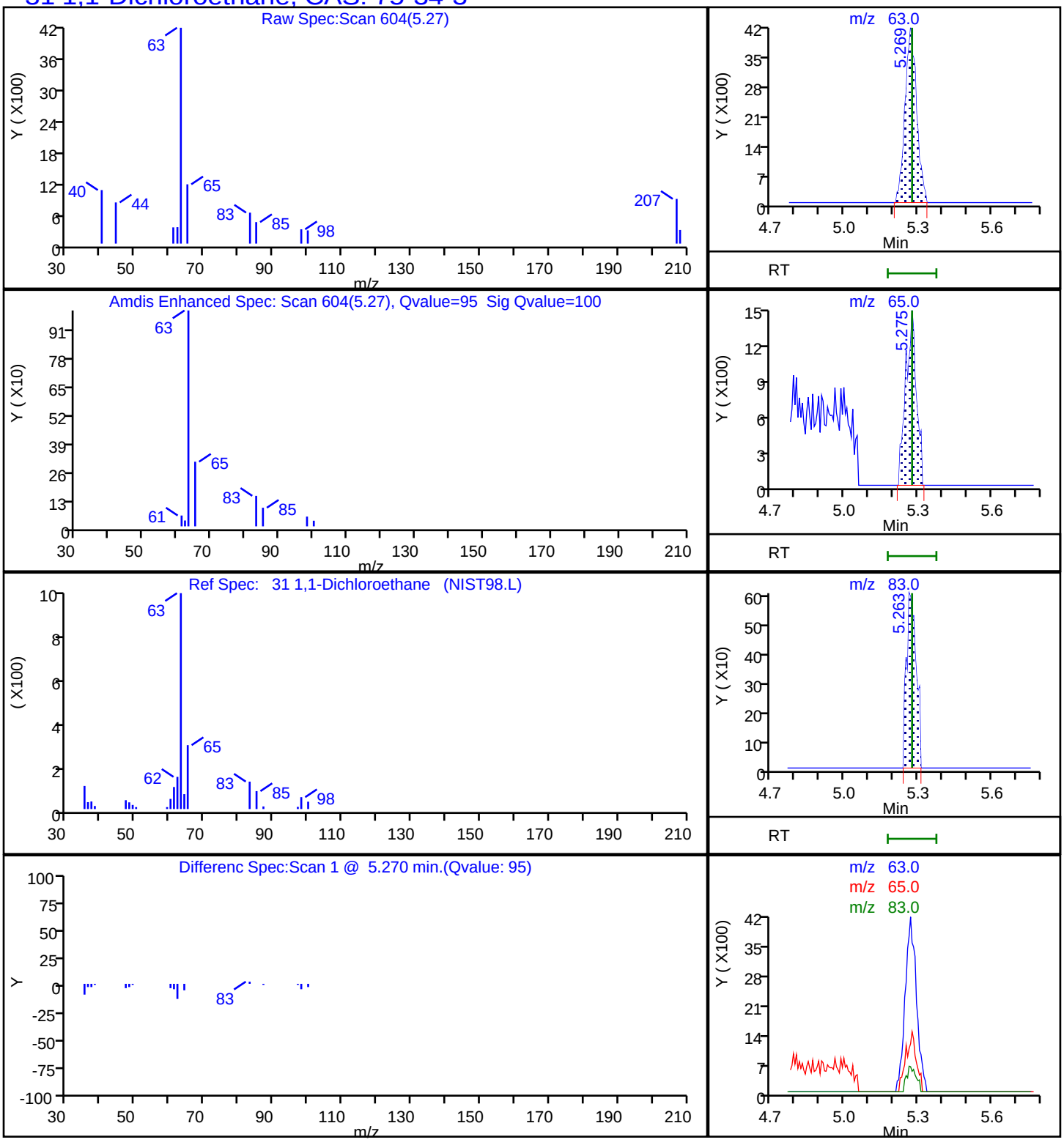
47 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X10.D				
Injection Date:	02-Dec-2021 13:34:30	Instrument ID:	19930		
Lims ID:	410-64660-A-6	Lab Sample ID:	410-64660-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

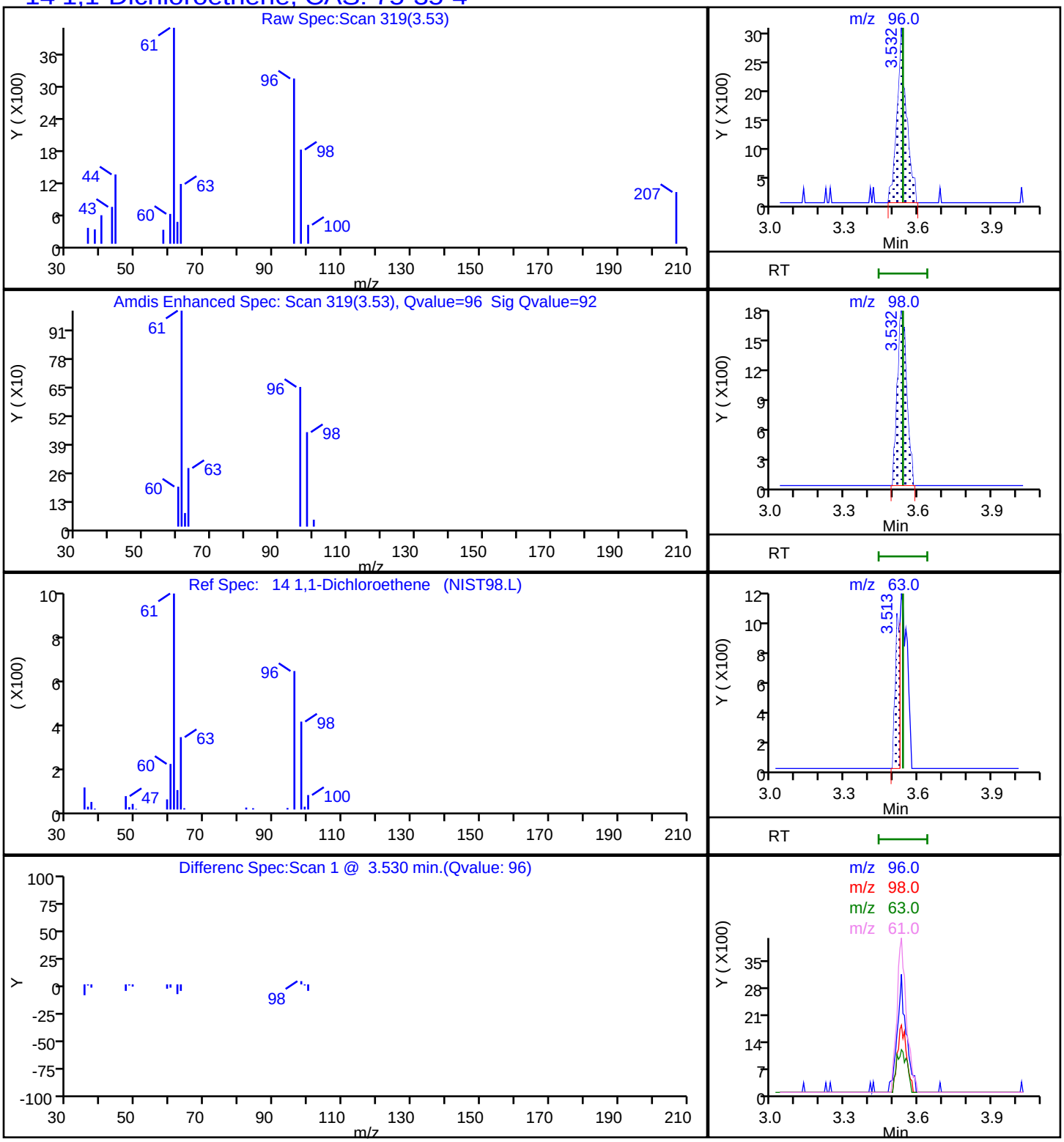
31 1,1-Dichloroethane, CAS: 75-34-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X10.D				
Injection Date:	02-Dec-2021 13:34:30	Instrument ID:	19930		
Lims ID:	410-64660-A-6	Lab Sample ID:	410-64660-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

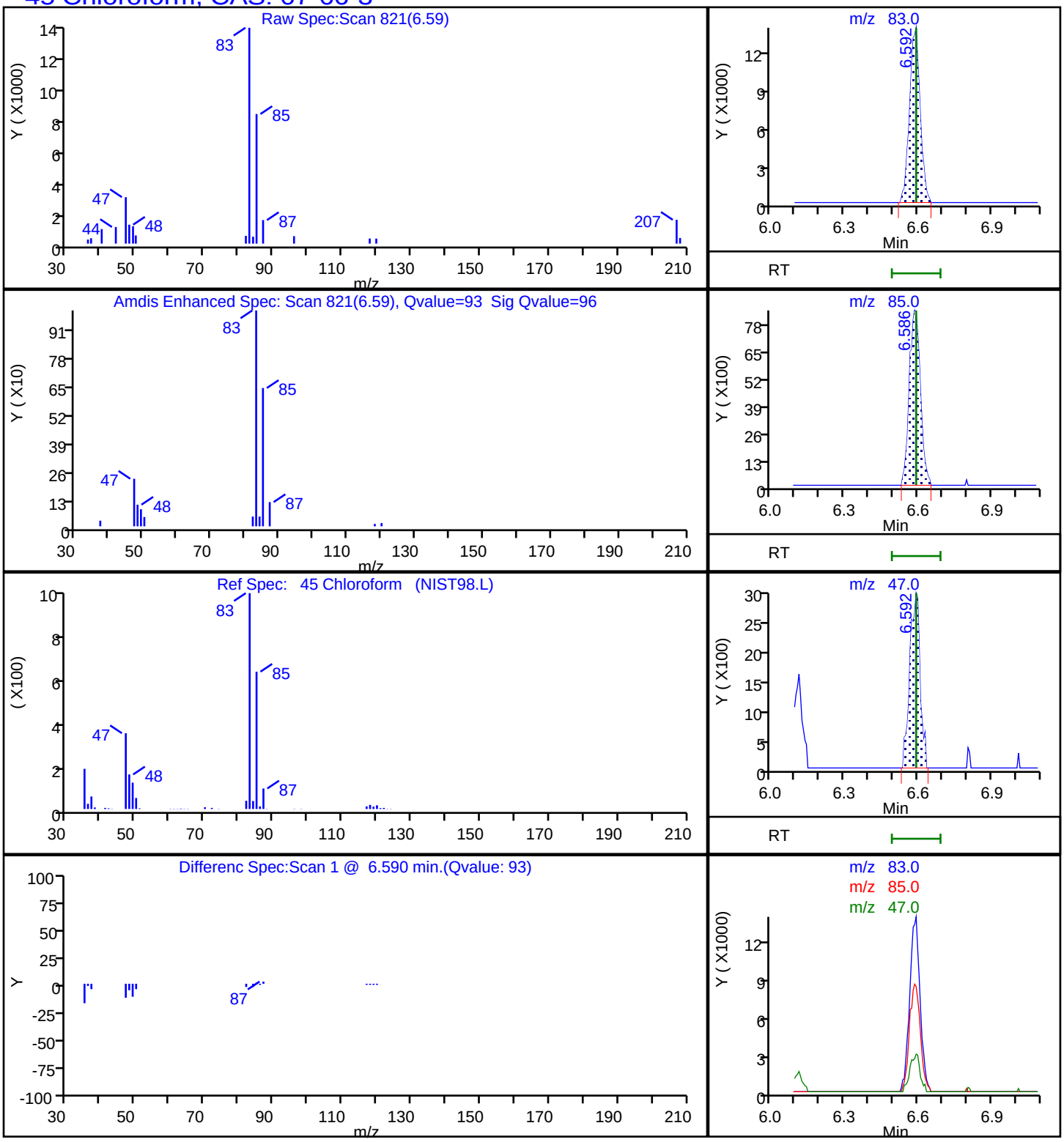
14 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X10.D				
Injection Date:	02-Dec-2021 13:34:30	Instrument ID:	19930		
Lims ID:	410-64660-A-6	Lab Sample ID:	410-64660-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

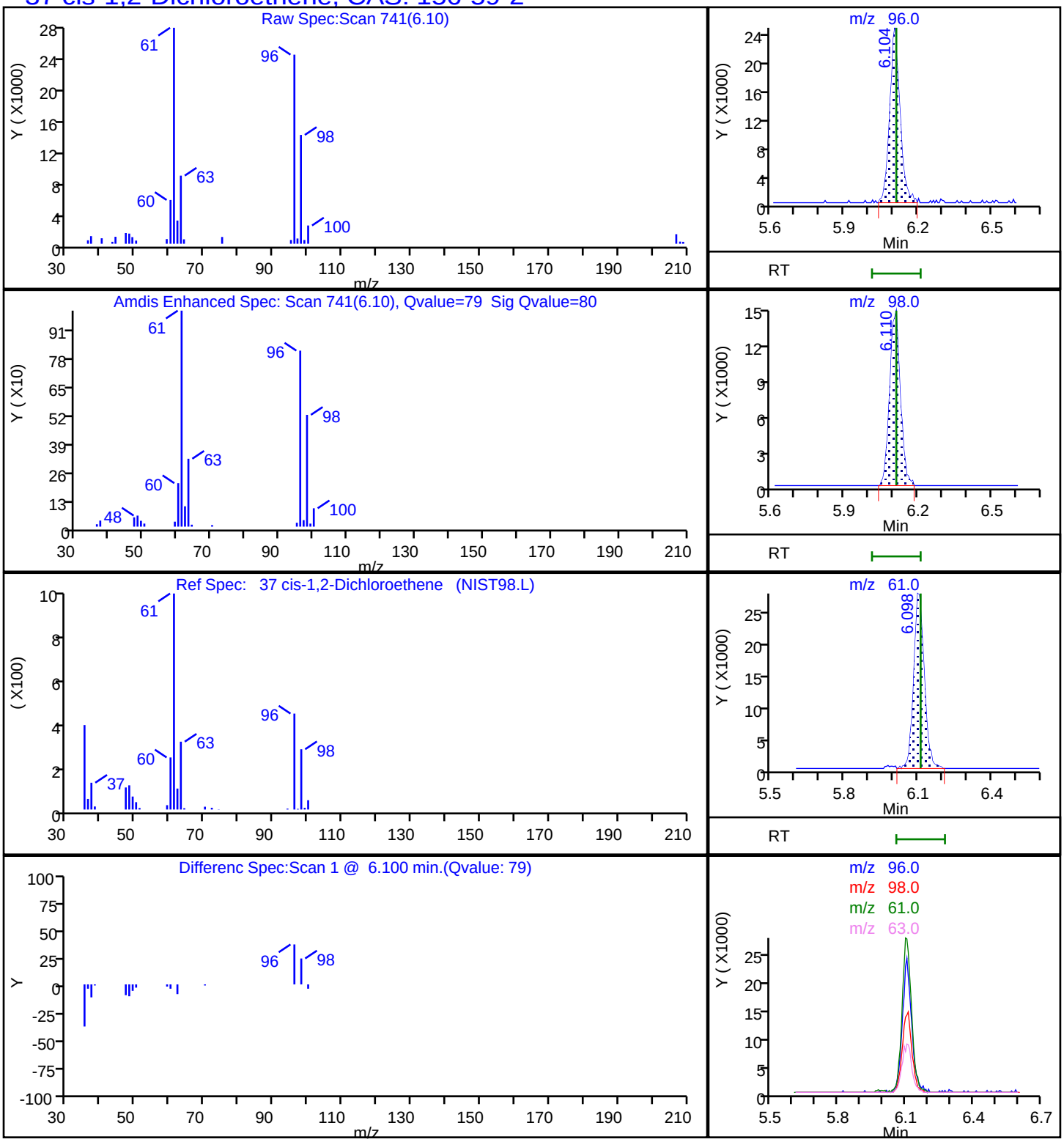
45 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X10.D				
Injection Date:	02-Dec-2021 13:34:30	Instrument ID:	19930		
Lims ID:	410-64660-A-6	Lab Sample ID:	410-64660-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

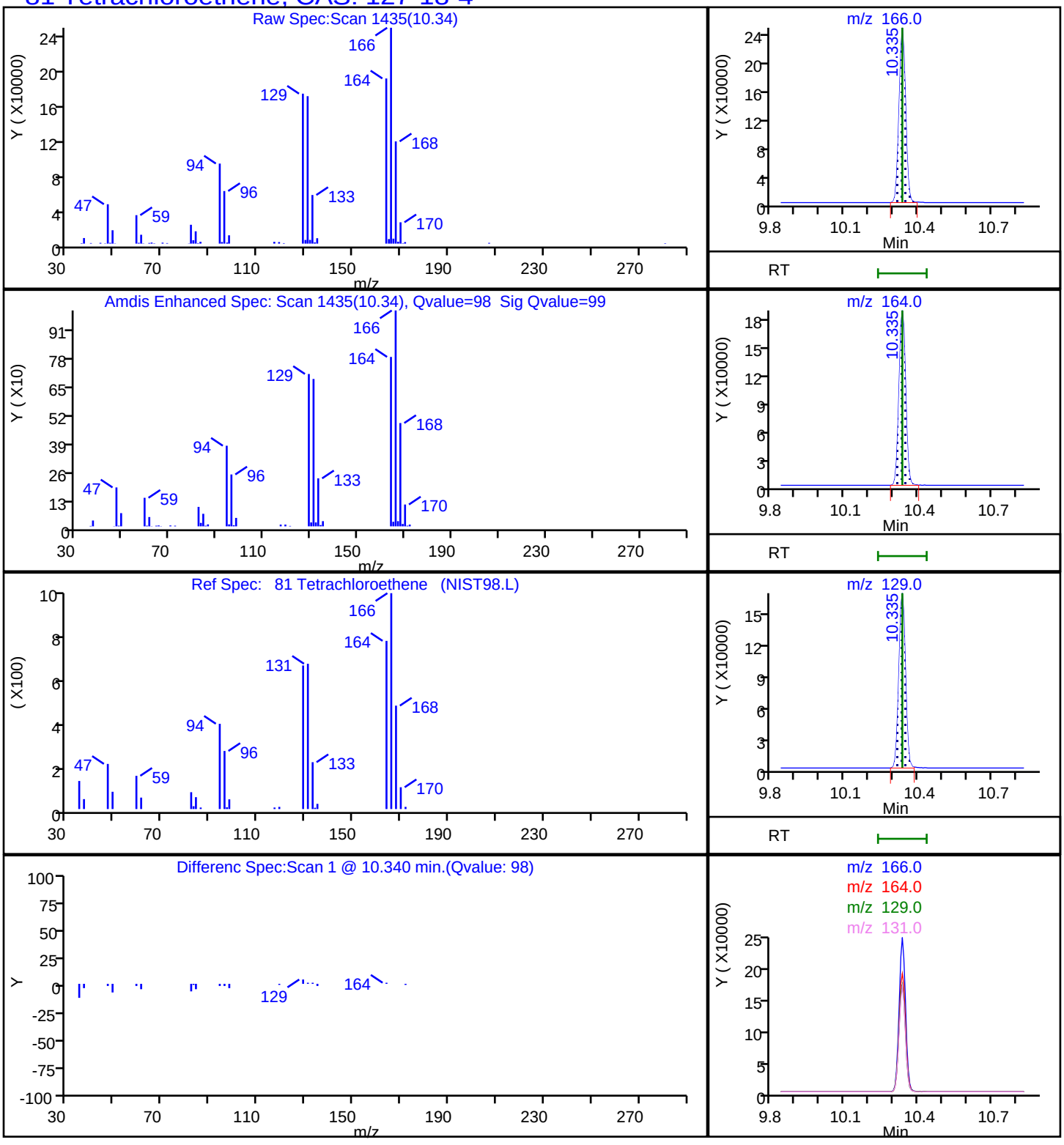
37 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X10.D				
Injection Date:	02-Dec-2021 13:34:30	Instrument ID:	19930		
Lims ID:	410-64660-A-6	Lab Sample ID:	410-64660-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

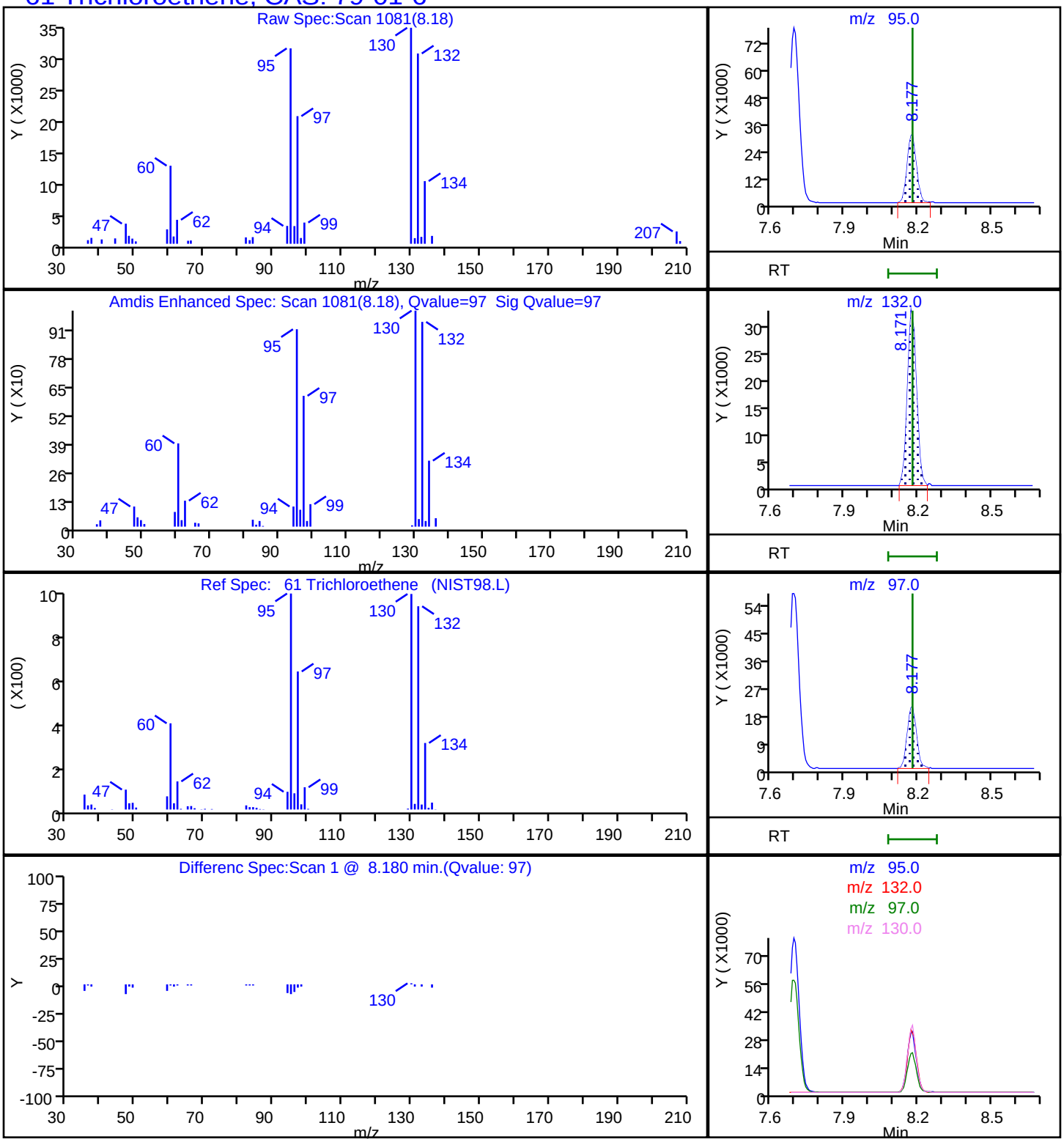
81 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X10.D				
Injection Date:	02-Dec-2021 13:34:30	Instrument ID:	19930		
Lims ID:	410-64660-A-6	Lab Sample ID:	410-64660-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

61 Trichloroethene, CAS: 79-01-6



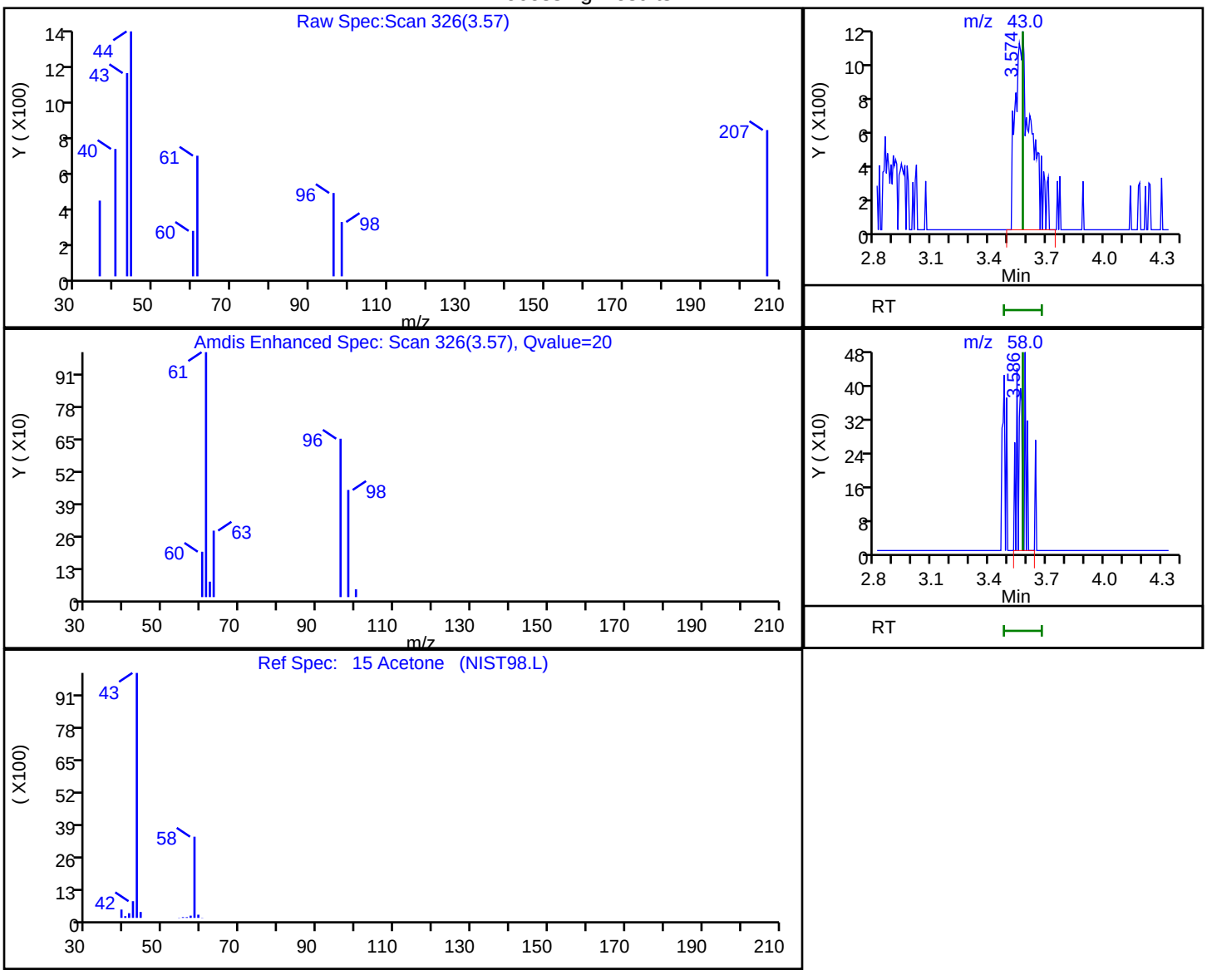
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X10.D				
Injection Date:	02-Dec-2021 13:34:30	Instrument ID:	19930		
Lims ID:	410-64660-A-6	Lab Sample ID:	410-64660-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

15 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.57	43.00	6683	0.678830
3.59	58.00	939	

Reviewer: beckerk, 02-Dec-2021 18:41:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0 Lab Sample ID: 410-64660-7

Matrix: Water Lab File ID: ID03X21.D

Analysis Method: 8260D Date Collected: 11/23/2021 09:30

Sample wt/vol: 25(mL) Date Analyzed: 12/03/2021 16:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201082 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	0.072	J	0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND		5.0	0.60
591-78-6	2-Hexanone	ND		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70
67-64-1	Acetone	1.2	J	5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.18	J	0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	0.93		0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	0.24	J	0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0 Lab Sample ID: 410-64660-7

Matrix: Water Lab File ID: ID03X21.D

Analysis Method: 8260D Date Collected: 11/23/2021 09:30

Sample wt/vol: 25(mL) Date Analyzed: 12/03/2021 16:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201082 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		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)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X21.D
Lims ID: 410-64660-A-7
Client ID: HD-COD-SW-16-0/1-0
Sample Type: Client
Inject. Date: 03-Dec-2021 16:31:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045448-022
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 03-Dec-2021 17:43:52 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1678

First Level Reviewer: beckerk Date: 03-Dec-2021 17:42:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.160	2.172	-0.012	97	4508	0.0534	
5 Vinyl chloride	62		2.288				ND	7
7 Bromomethane	94		2.617				ND	
8 Chloroethane	64		2.690				ND	
14 1,1-Dichloroethene	96		3.544				ND	7
15 Acetone	43	3.586	3.568	0.018	66	7608	1.15	M
19 Carbon disulfide	76	3.836	3.849	-0.013	60	6961	0.0446	
23 Methylene Chloride	84		4.202				ND	
* 24 t-Butyl alcohol-d10 (IS)	65	4.239	4.208	0.031	17	118709	50.0	
27 Methyl tert-butyl ether	73		4.605				ND	
28 trans-1,2-Dichloroethene	96		4.623				ND	
31 1,1-Dichloroethane	63		5.281				ND	
36 2-Butanone (MEK)	43		6.068				ND	7
37 cis-1,2-Dichloroethene	96	6.110	6.110	0.000	80	12935	0.1808	
43 Chlorobromomethane	128		6.446				ND	
45 Chloroform	83	6.586	6.592	-0.006	87	6045	0.0524	
$ 46 Dibromofluoromethane (Surr)	113	6.799	6.805	-0.006	94	594644	9.96	
47 1,1,1-Trichloroethane	97	6.824	6.824	0.000	96	7732	0.0721	
50 Carbon tetrachloride	117		7.037				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.256	7.257	-0.001	83	118863	9.96	
54 Benzene	78		7.293				ND	7
56 1,2-Dichloroethane	62		7.366				ND	
* 58 Fluorobenzene (IS)	96	7.689	7.695	-0.006	99	2368967	10.0	
61 Trichloroethene	95	8.171	8.177	-0.006	96	17517	0.2447	
63 1,2-Dichloropropane	63		8.506				ND	
68 Dichlorobromomethane	83		8.854				ND	7
73 cis-1,3-Dichloropropene	75		9.402				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.567				ND	7
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2483963	10.1	
76 Toluene	92	9.786	9.787	-0.001	99	9273	0.0508	
78 trans-1,3-Dichloropropene	75		10.043				ND	
80 1,1,2-Trichloroethane	97		10.250				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
81 Tetrachloroethene	166	10.335	10.335	0.000	97	81075	0.9326	
83 2-Hexanone	43		10.457				ND	
85 Chlorodibromomethane	129		10.628				ND	
86 Ethylene Dibromide	107		10.738				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	1903496	10.0	
90 Chlorobenzene	112		11.195				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.274				ND	
92 Ethylbenzene	91		11.280				ND	7
93 m-Xylene & p-Xylene	106	11.396	11.390	0.006	98	6264	0.0451	
94 o-Xylene	106		11.719				ND	7
95 Styrene	104		11.737				ND	7
96 Bromoform	173		11.896				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	93	934706	9.94	
101 1,1,2,2-Tetrachloroethane	83		12.262				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.042	13.042	0.000	94	1082621	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00002 Amount Added: 5.00 Units: uL Run Reagent

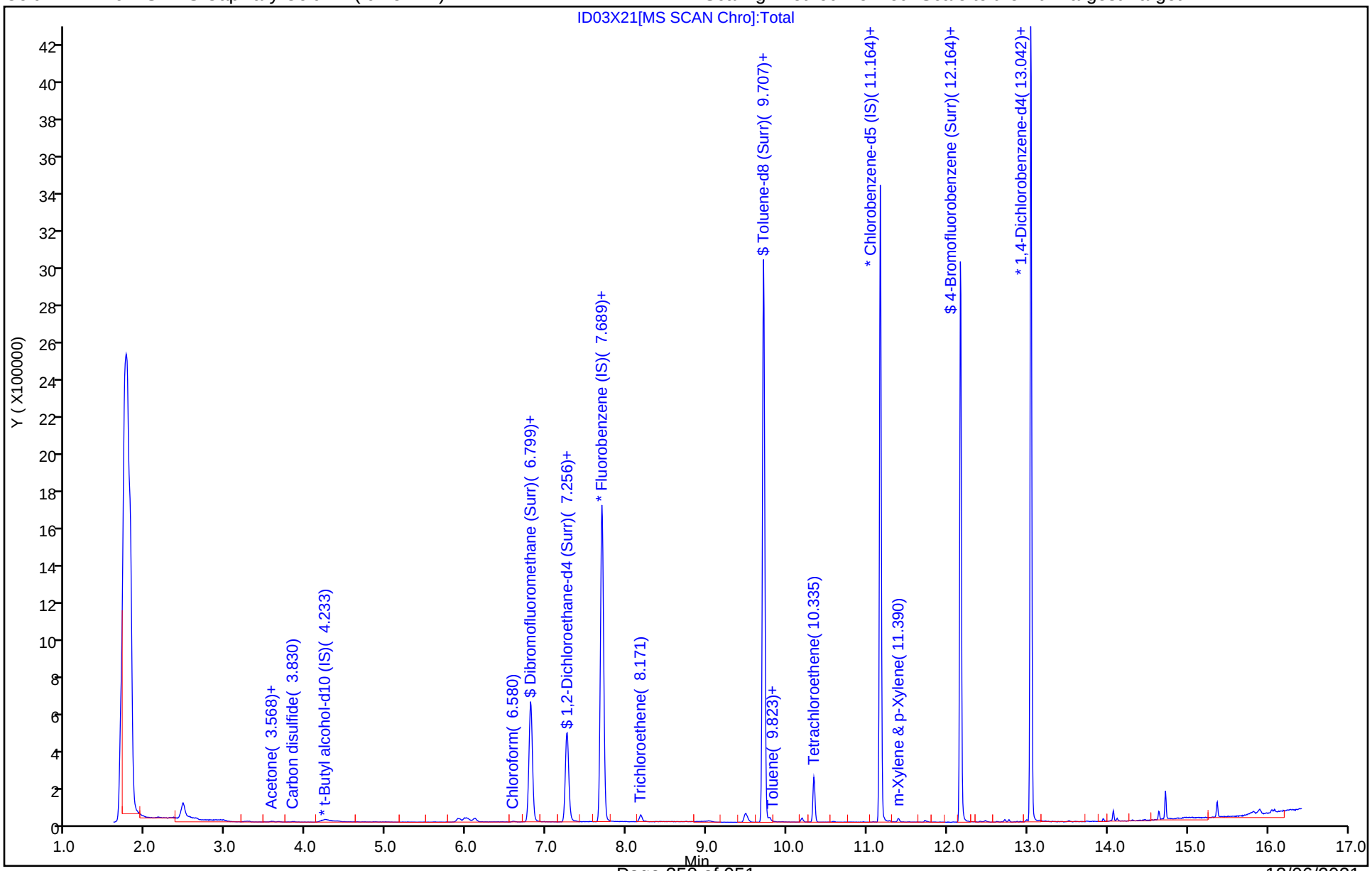
Report Date: 03-Dec-2021 17:44:12 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X21.D

Injection Date:	03-Dec-2021 16:31:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	410-64660-A-7	Lab Sample ID:	410-64660-7	Worklist Smp#:	22
Client ID:	HD-COD-SW-16-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X21.D				
Lims ID:	410-64660-A-7				
Client ID:	HD-COD-SW-16-0/1-0				
Sample Type:	Client				
Inject. Date:	03-Dec-2021 16:31:30	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0045448-022				
Operator ID:	KNK41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	03-Dec-2021 17:43:52	Calib Date:	24-Aug-2021 02:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1678				

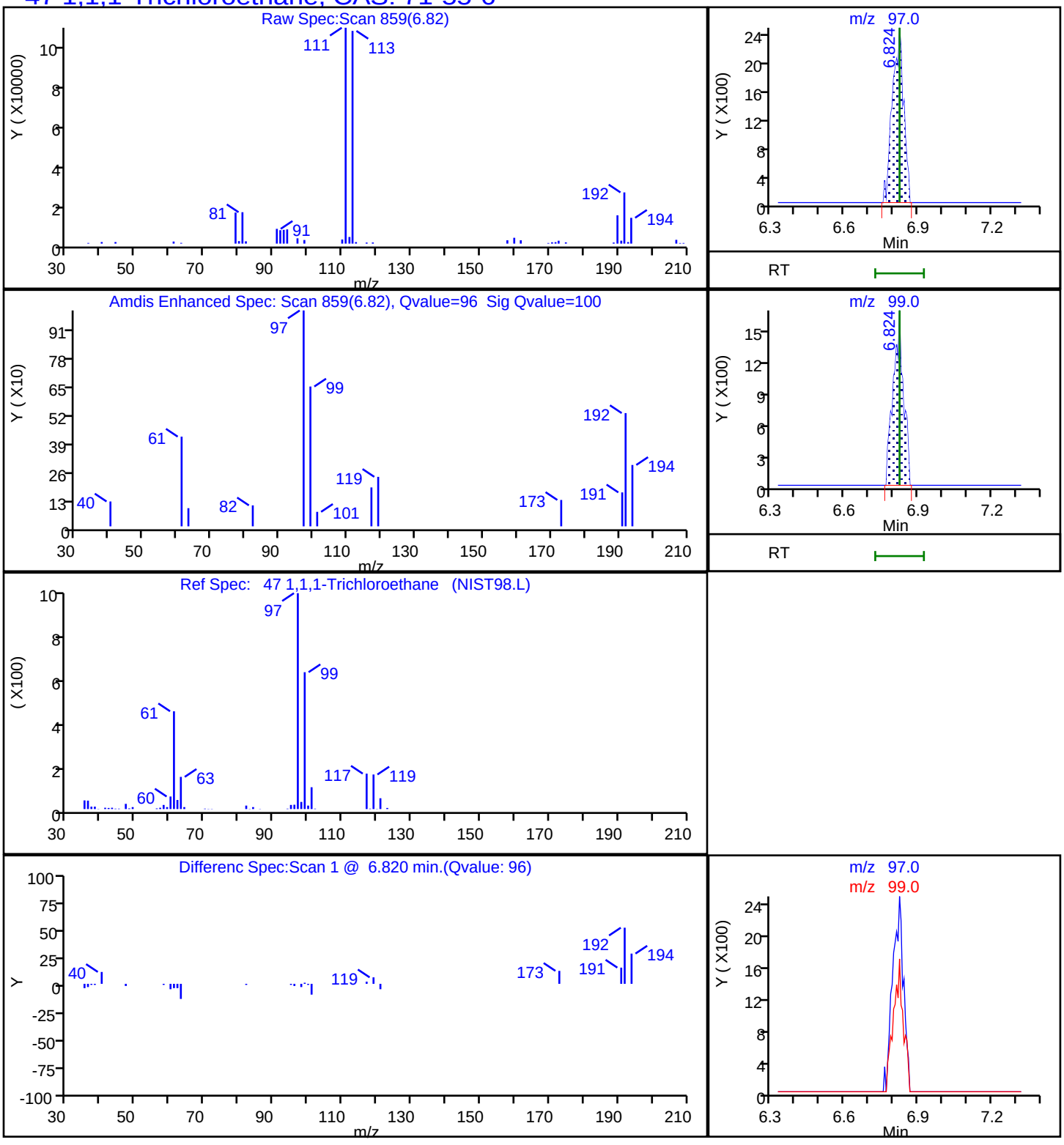
First Level Reviewer: beckerk Date: 03-Dec-2021 17:42:50

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	9.96	99.64
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	9.96	99.56
$ 75 Toluene-d8 (Surr)	10.0	10.1	100.98
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.94	99.42

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X21.D				
Injection Date:	03-Dec-2021 16:31:30	Instrument ID:	19930		
Lims ID:	410-64660-A-7	Lab Sample ID:	410-64660-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

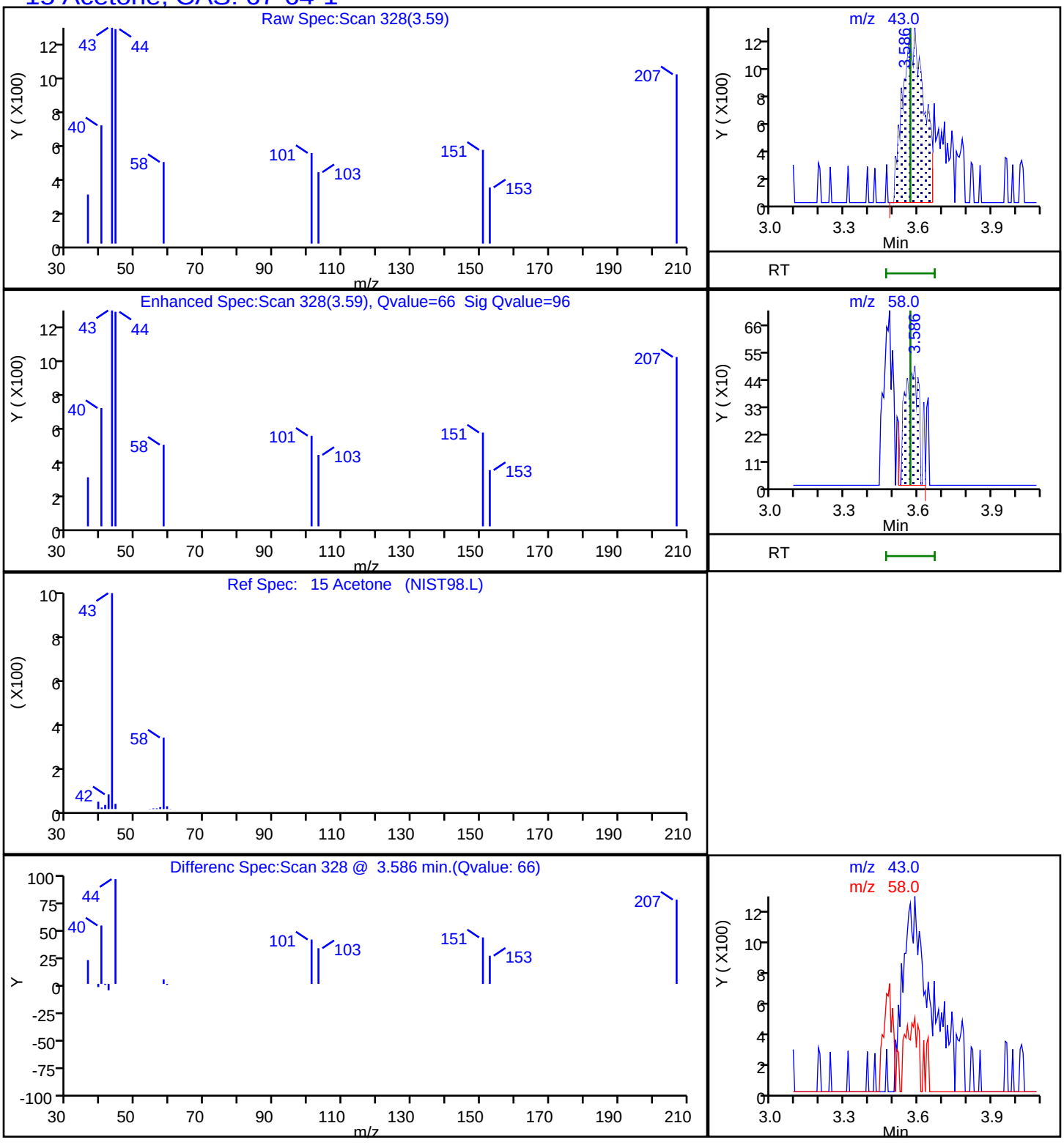
47 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X21.D				
Injection Date:	03-Dec-2021 16:31:30	Instrument ID:	19930		
Lims ID:	410-64660-A-7	Lab Sample ID:	410-64660-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

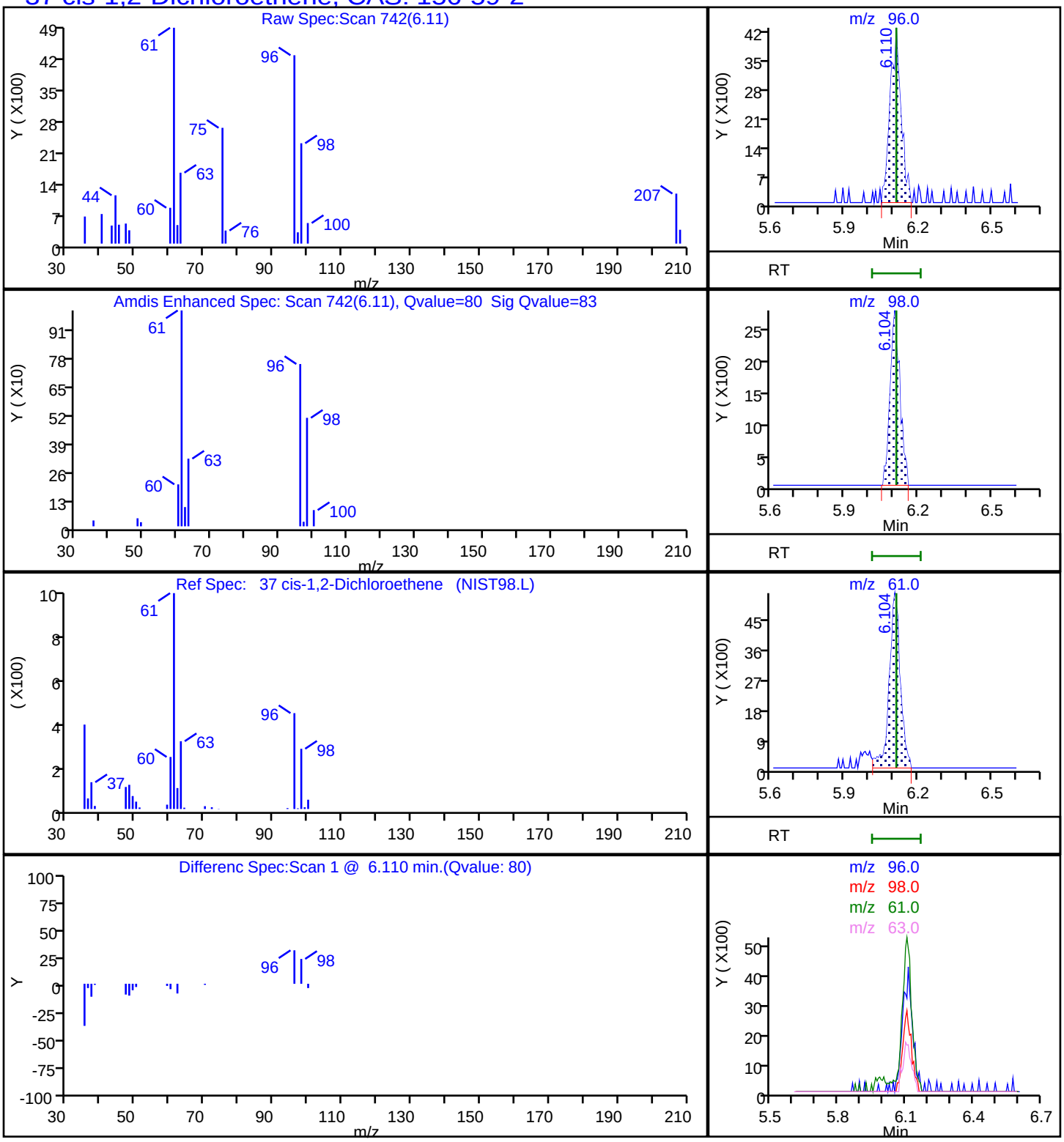
15 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X21.D				
Injection Date:	03-Dec-2021 16:31:30	Instrument ID:	19930		
Lims ID:	410-64660-A-7	Lab Sample ID:	410-64660-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

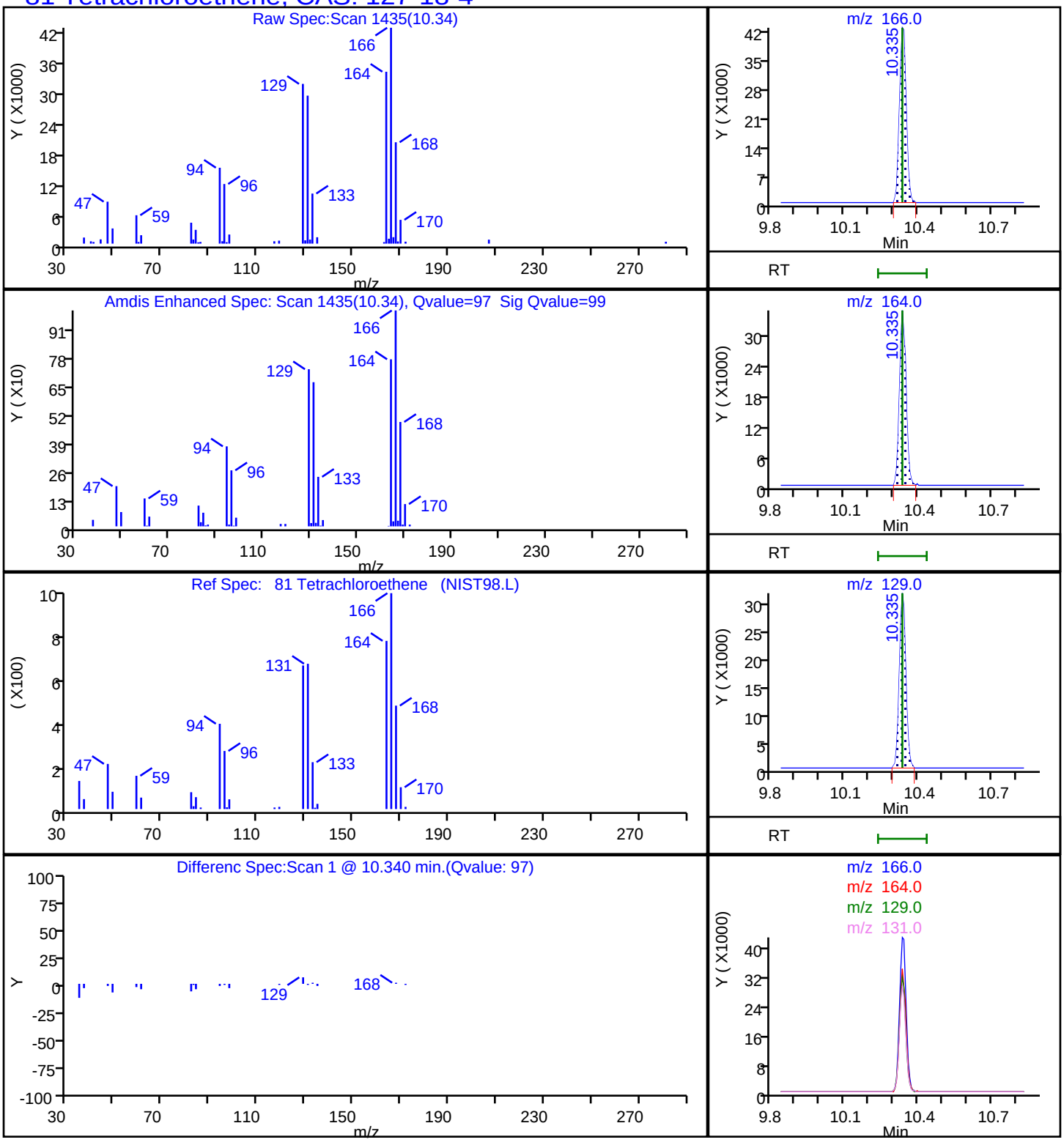
37 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X21.D				
Injection Date:	03-Dec-2021 16:31:30	Instrument ID:	19930		
Lims ID:	410-64660-A-7	Lab Sample ID:	410-64660-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

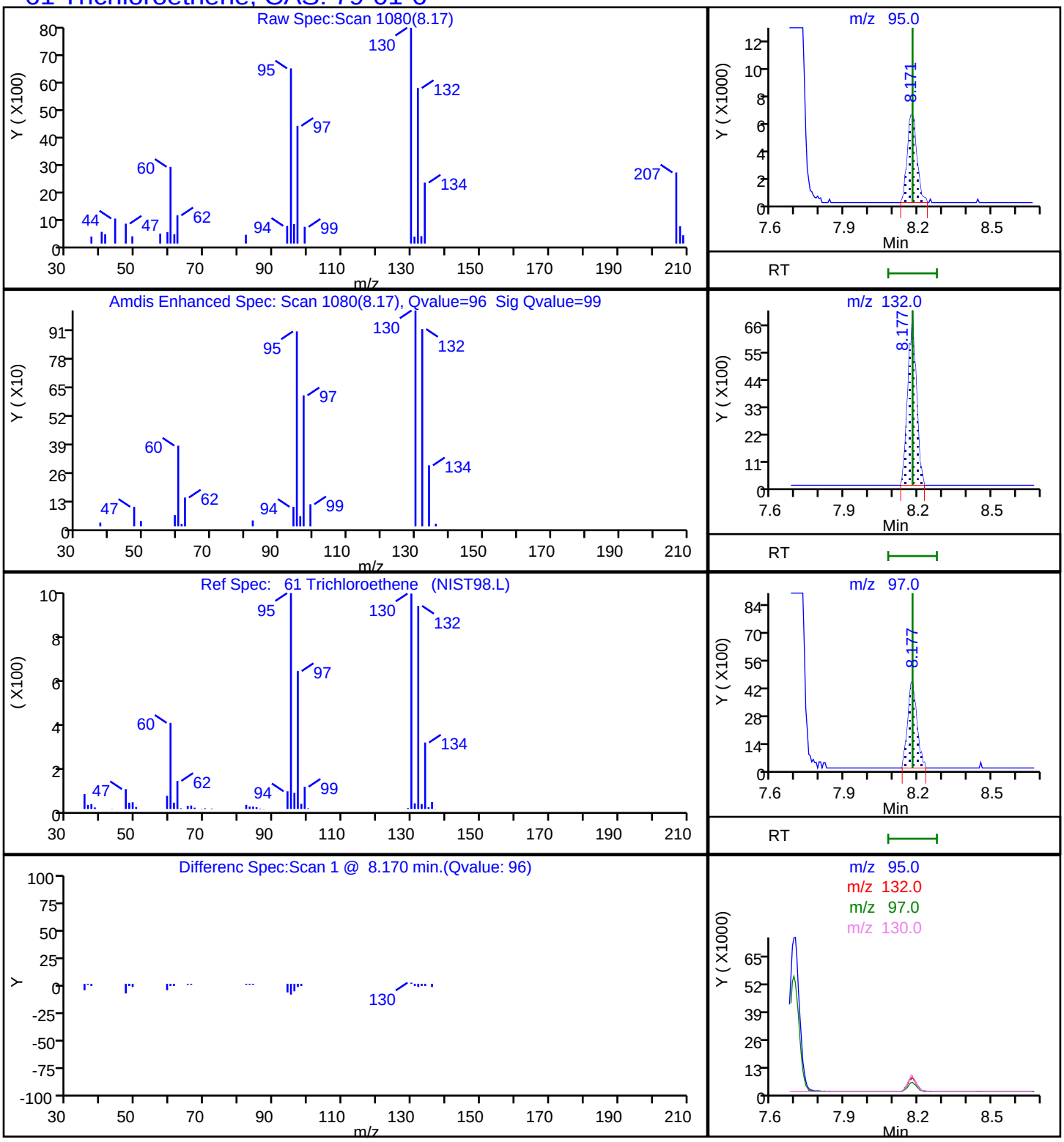
81 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X21.D				
Injection Date:	03-Dec-2021 16:31:30	Instrument ID:	19930		
Lims ID:	410-64660-A-7	Lab Sample ID:	410-64660-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

61 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

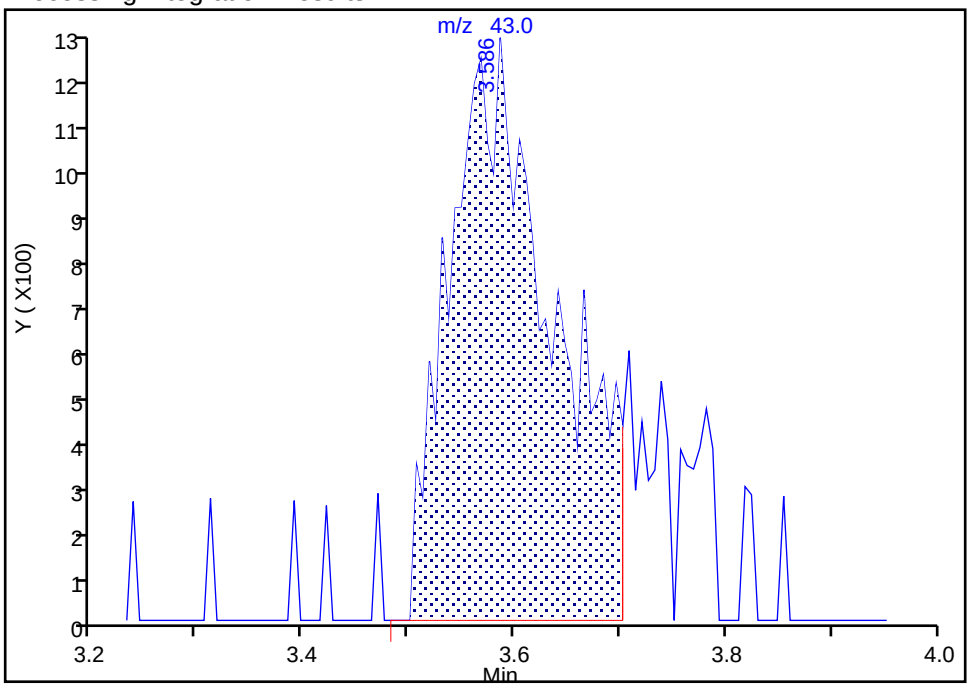
Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X21.D				
Injection Date:	03-Dec-2021 16:31:30	Instrument ID:	19930		
Lims ID:	410-64660-A-7	Lab Sample ID:	410-64660-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

15 Acetone, CAS: 67-64-1

Signal: 1

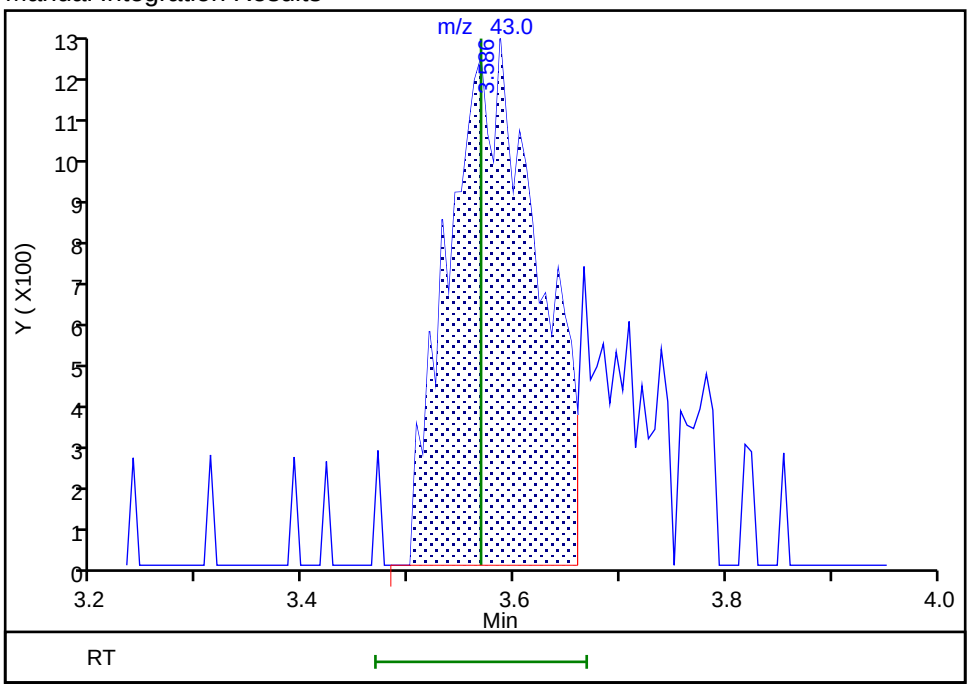
RT: 3.59
Area: 8915
Amount: 1.351878
Amount Units: ug/l

Processing Integration Results



Manual Integration Results

RT: 3.59
Area: 7608
Amount: 1.153683
Amount Units: ug/l



Reviewer: beckerk, 03-Dec-2021 17:42:37
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0 Lab Sample ID: 410-64660-8

Matrix: Water Lab File ID: ID03X22.D

Analysis Method: 8260D Date Collected: 11/23/2021 09:40

Sample wt/vol: 25(mL) Date Analyzed: 12/03/2021 16:53

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201082 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	6.2		0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	0.91		0.50	0.070
75-35-4	1,1-Dichloroethene	0.56		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND		5.0	0.60
591-78-6	2-Hexanone	ND		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70
67-64-1	Acetone	ND		5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	0.31	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	4.7		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	9.4		0.50	0.060
75-01-4	Vinyl chloride	ND		0.50	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0 Lab Sample ID: 410-64660-8

Matrix: Water Lab File ID: ID03X22.D

Analysis Method: 8260D Date Collected: 11/23/2021 09:40

Sample wt/vol: 25(mL) Date Analyzed: 12/03/2021 16:53

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201082 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X22.D
Lims ID: 410-64660-A-8
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 03-Dec-2021 16:53:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045448-023
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 03-Dec-2021 17:43:52 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1678

First Level Reviewer: beckerk Date: 03-Dec-2021 17:43:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.172				ND	
5 Vinyl chloride	62		2.288				ND	7
7 Bromomethane	94		2.617				ND	
8 Chloroethane	64		2.690				ND	
14 1,1-Dichloroethene	96	3.538	3.544	-0.006	97	31519	0.5595	
15 Acetone	43		3.568				ND	U
19 Carbon disulfide	76		3.849				ND	7
23 Methylene Chloride	84		4.202				ND	
* 24 t-Butyl alcohol-d10 (IS)	65	4.263	4.208	0.055	24	107476	50.0	
27 Methyl tert-butyl ether	73	4.623	4.605	0.018	78	7182	0.0447	
28 trans-1,2-Dichloroethene	96	4.617	4.623	-0.006	94	2914	0.0455	M
31 1,1-Dichloroethane	63	5.281	5.281	0.000	96	106159	0.9143	
36 2-Butanone (MEK)	43		6.068				ND	
37 cis-1,2-Dichloroethene	96	6.110	6.110	0.000	78	336140	4.72	
43 Chlorobromomethane	128		6.446				ND	
45 Chloroform	83	6.598	6.592	0.006	93	35380	0.3076	
$ 46 Dibromofluoromethane (Surr)	113	6.805	6.805	0.000	94	599671	10.1	
47 1,1,1-Trichloroethane	97	6.818	6.824	-0.006	98	662738	6.20	
50 Carbon tetrachloride	117		7.037				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.263	7.257	0.006	83	121601	10.2	
54 Benzene	78		7.293				ND	7
56 1,2-Dichloroethane	62		7.366				ND	
* 58 Fluorobenzene (IS)	96	7.695	7.695	0.000	99	2360302	10.0	
61 Trichloroethene	95	8.177	8.177	0.000	97	671717	9.42	
63 1,2-Dichloropropane	63		8.506				ND	
68 Dichlorobromomethane	83		8.854				ND	
73 cis-1,3-Dichloropropene	75		9.402				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.567				ND	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2479721	10.1	
76 Toluene	92	9.780	9.787	-0.007	98	6304	0.0346	
78 trans-1,3-Dichloropropene	75		10.043				ND	
80 1,1,2-Trichloroethane	97		10.250				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
81 Tetrachloroethene	166	10.341	10.335	0.006	97	6766259	77.9	E
83 2-Hexanone	43		10.457				ND	
85 Chlorodibromomethane	129		10.628				ND	
86 Ethylene Dibromide	107		10.738				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	1901905	10.0	
90 Chlorobenzene	112		11.195				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.274				ND	
92 Ethylbenzene	91		11.280				ND	7
93 m-Xylene & p-Xylene	106		11.390				ND	7
94 o-Xylene	106		11.719				ND	7
95 Styrene	104		11.737				ND	7
96 Bromoform	173		11.896				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	93	928967	9.89	
101 1,1,2,2-Tetrachloroethane	83		12.262				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.048	13.042	0.006	94	1096396	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_LLcentISS_00002 Amount Added: 5.00 Units: uL Run Reagent

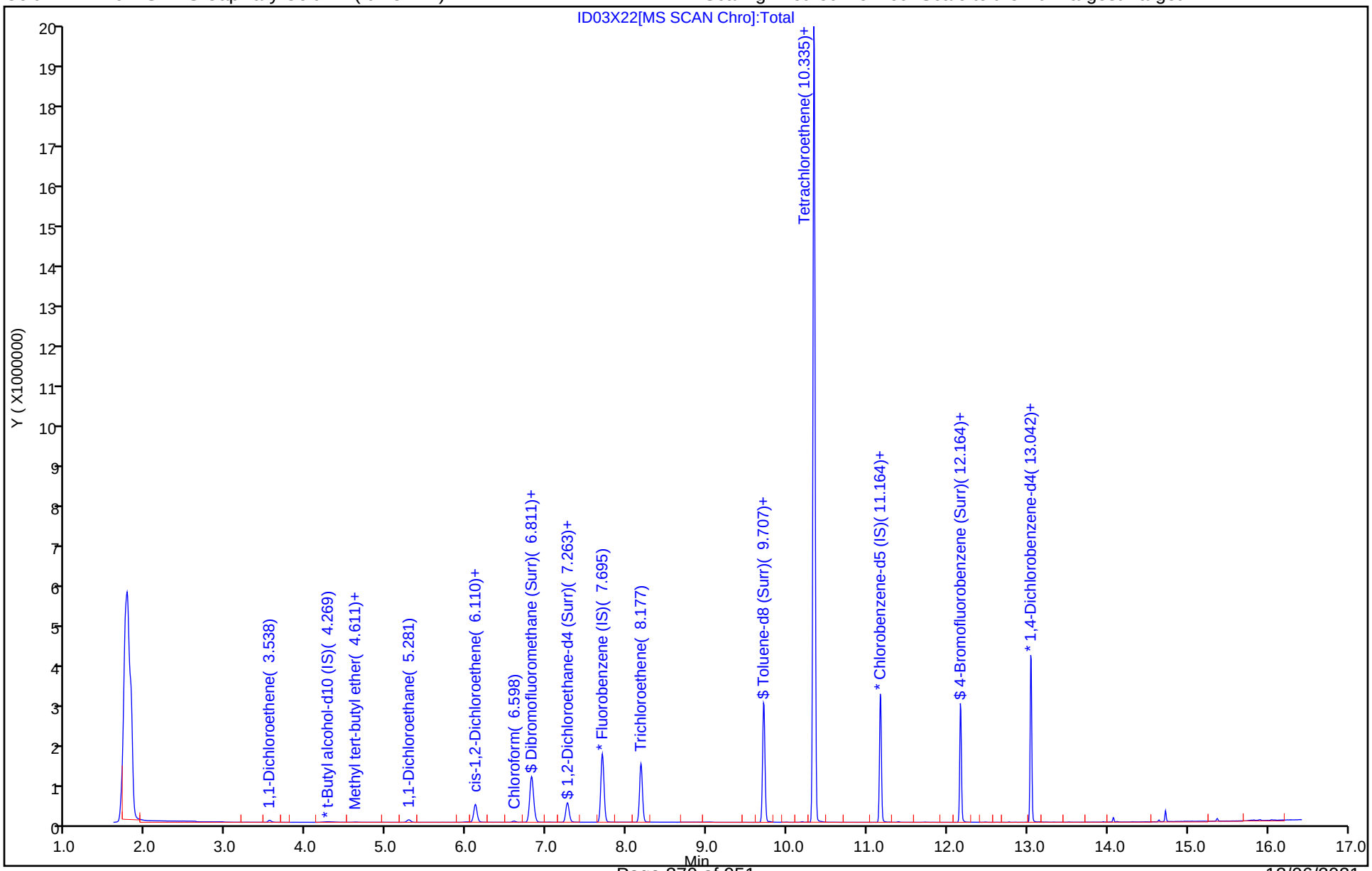
Report Date: 03-Dec-2021 17:44:13 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X22.D

Injection Date:	03-Dec-2021 16:53:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	410-64660-A-8	Lab Sample ID:	410-64660-8	Worklist Smp#:	23
Client ID:	HD-COD-SW-17-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X22.D				
Lims ID:	410-64660-A-8				
Client ID:	HD-COD-SW-17-0/1-0				
Sample Type:	Client				
Inject. Date:	03-Dec-2021 16:53:30	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0045448-023				
Operator ID:	KNK41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	03-Dec-2021 17:43:52	Calib Date:	24-Aug-2021 02:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1678				

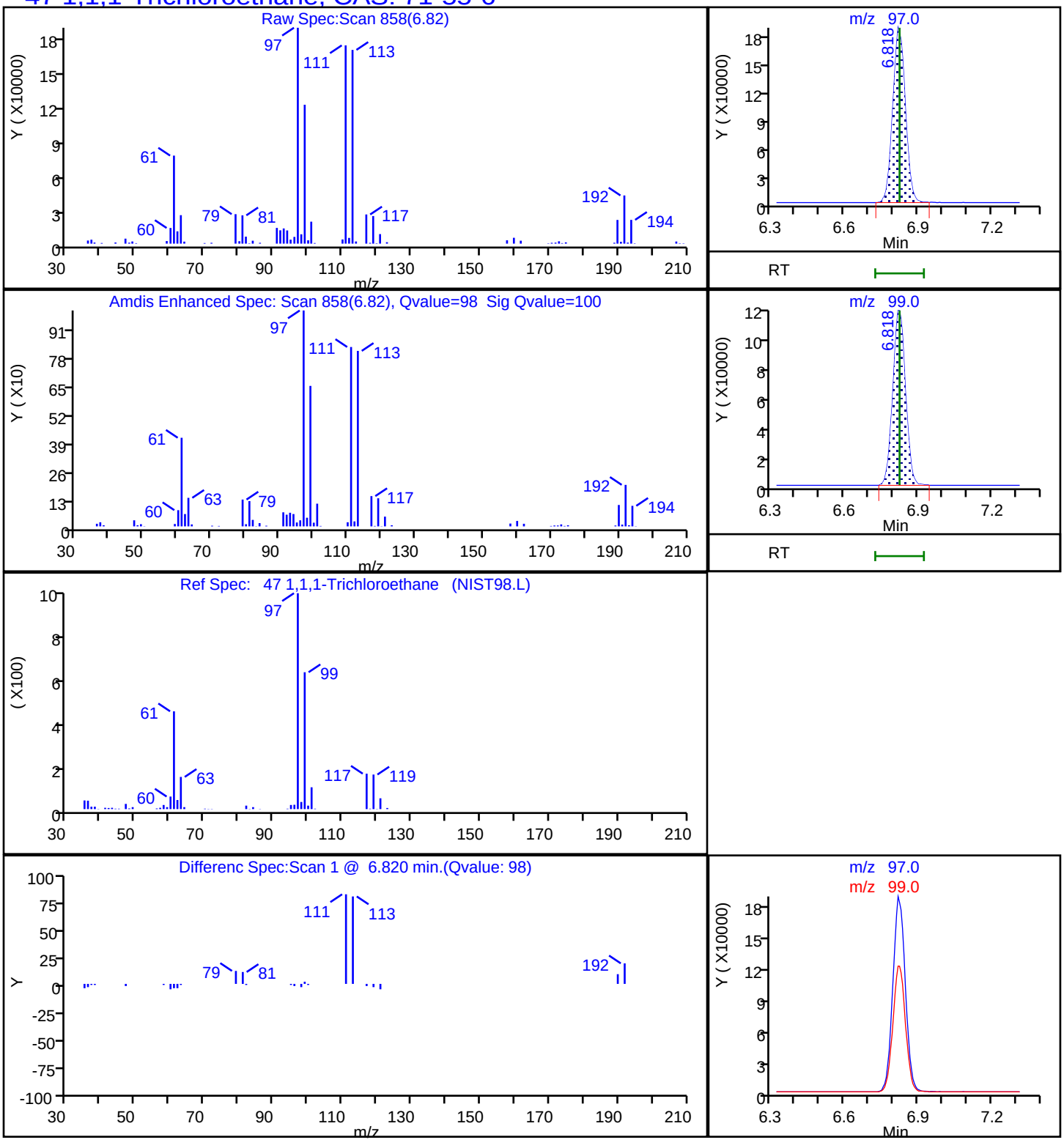
First Level Reviewer: beckerk Date: 03-Dec-2021 17:43:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.1	100.86
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.23
$ 75 Toluene-d8 (Surr)	10.0	10.1	100.89
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.89	98.89

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X22.D				
Injection Date:	03-Dec-2021 16:53:30	Instrument ID:	19930		
Lims ID:	410-64660-A-8	Lab Sample ID:	410-64660-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

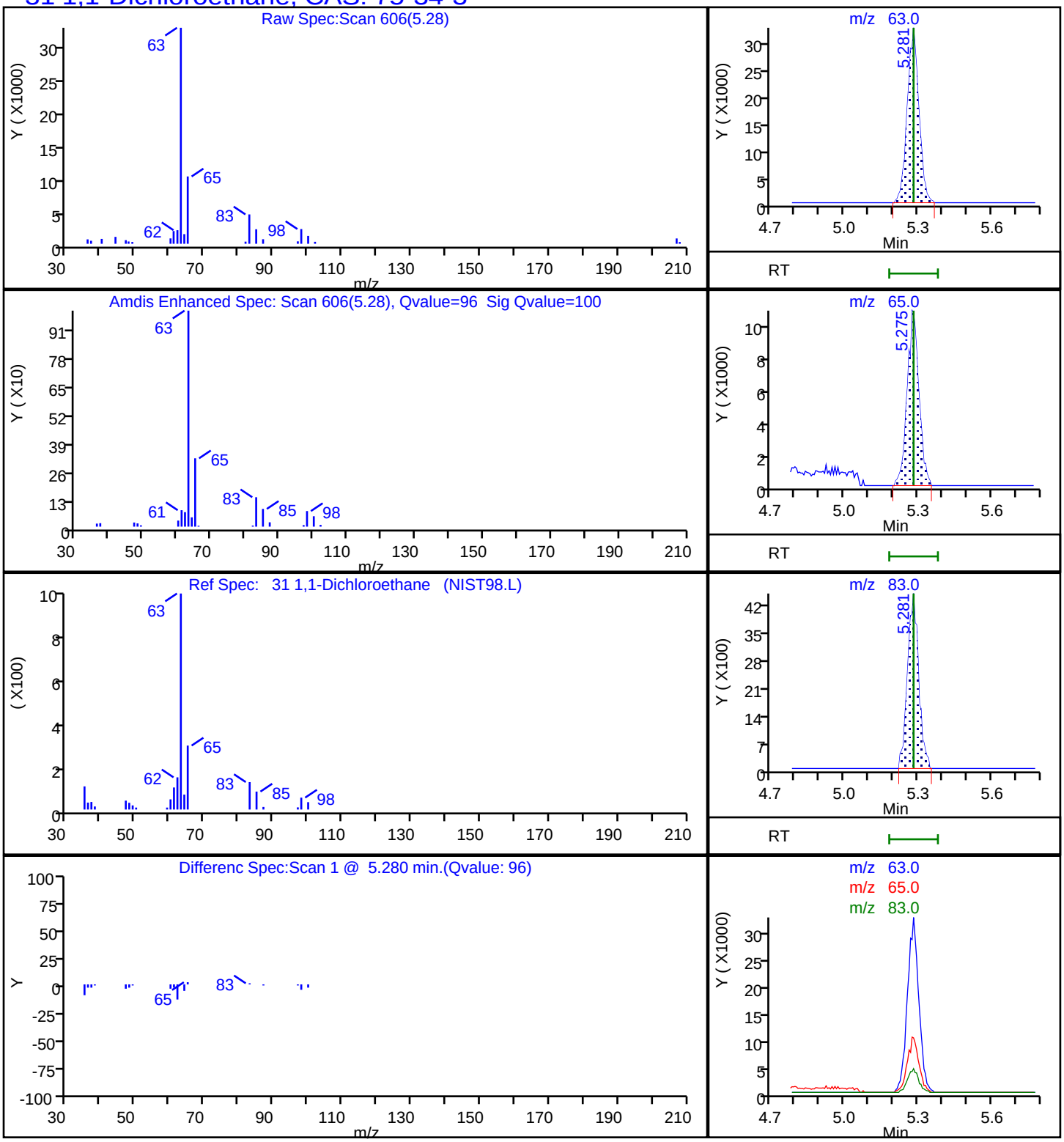
47 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X22.D				
Injection Date:	03-Dec-2021 16:53:30	Instrument ID:	19930		
Lims ID:	410-64660-A-8	Lab Sample ID:	410-64660-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

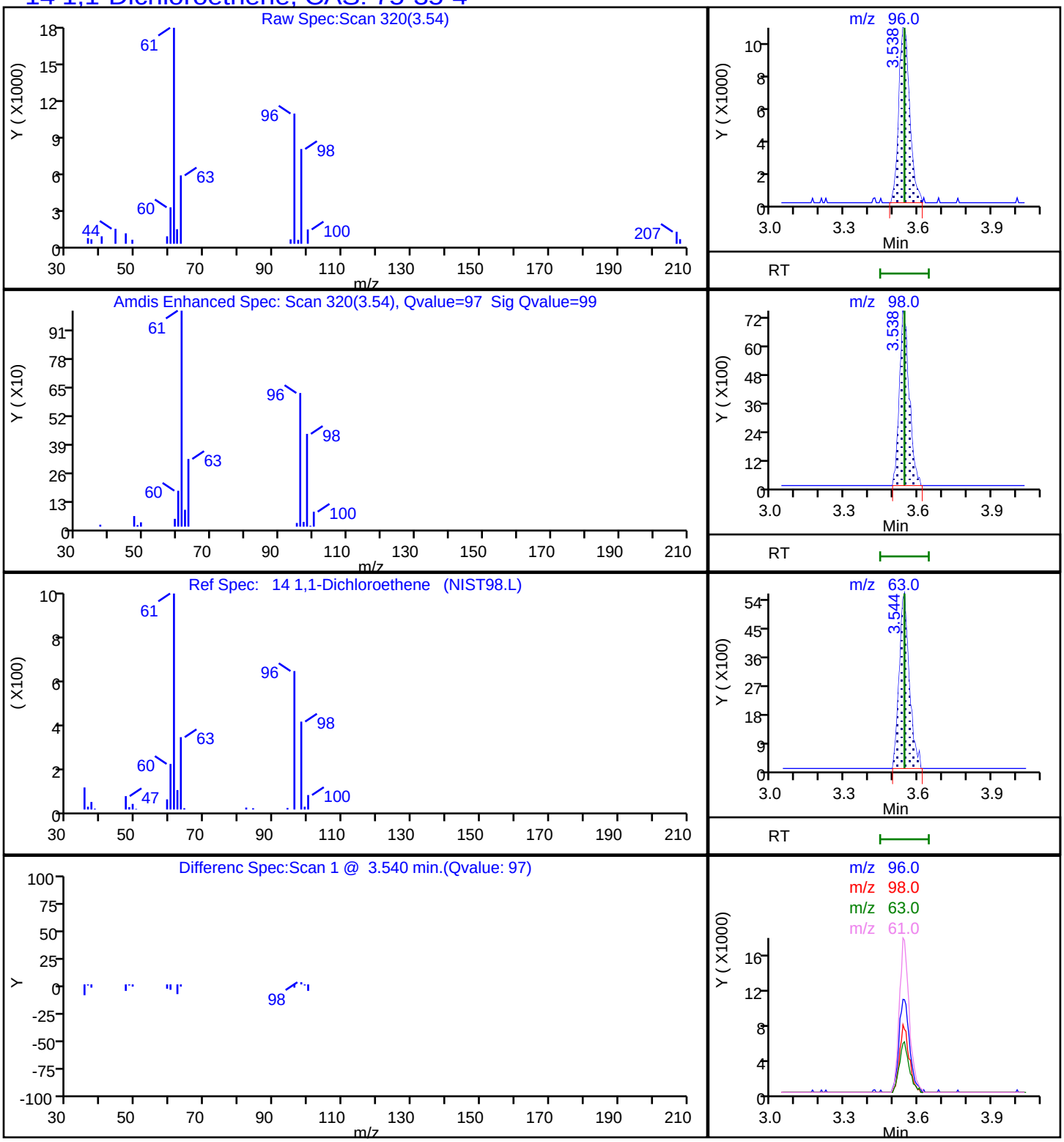
31 1,1-Dichloroethane, CAS: 75-34-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X22.D				
Injection Date:	03-Dec-2021 16:53:30	Instrument ID:	19930		
Lims ID:	410-64660-A-8	Lab Sample ID:	410-64660-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

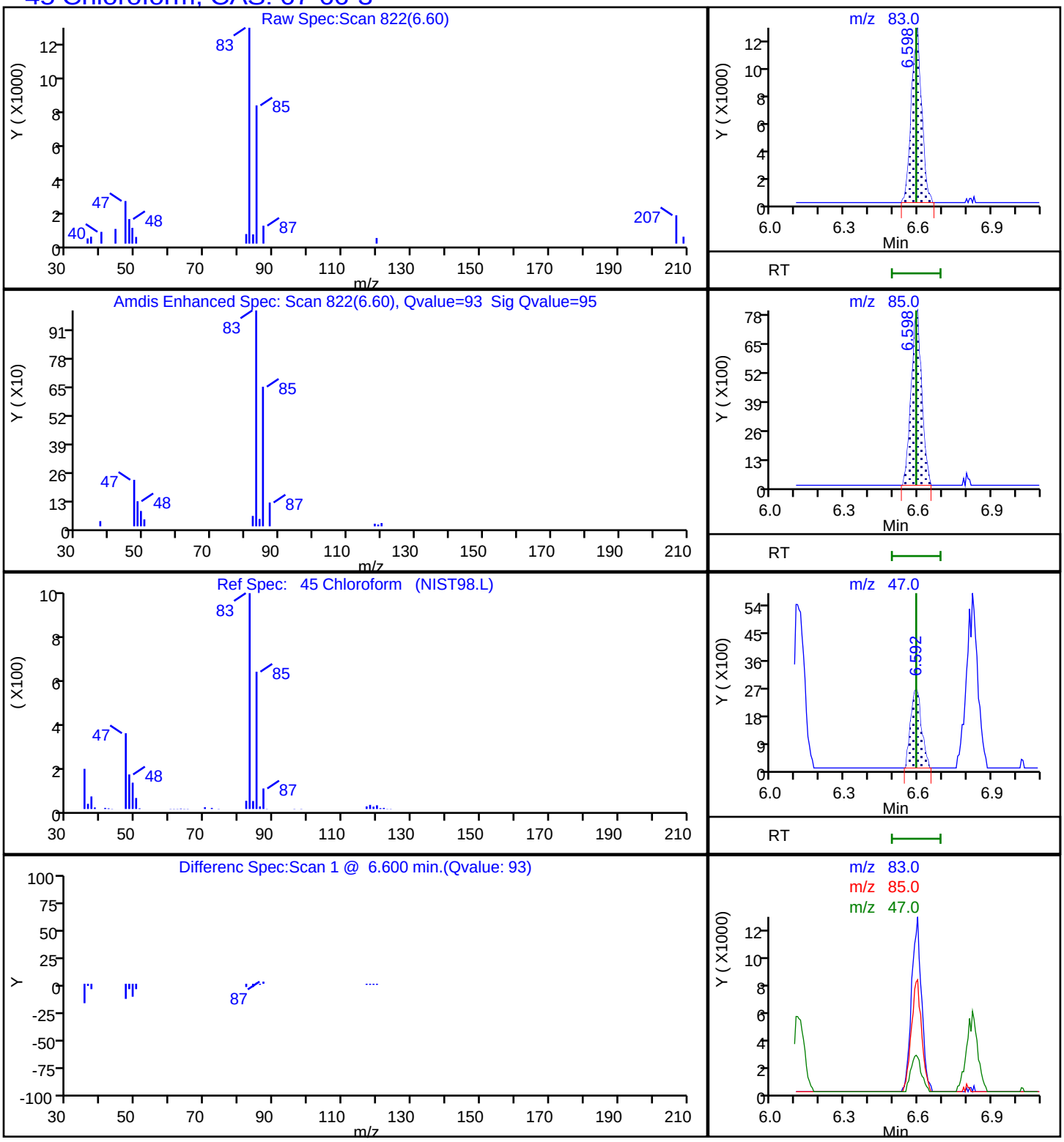
14 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X22.D				
Injection Date:	03-Dec-2021 16:53:30	Instrument ID:	19930		
Lims ID:	410-64660-A-8	Lab Sample ID:	410-64660-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

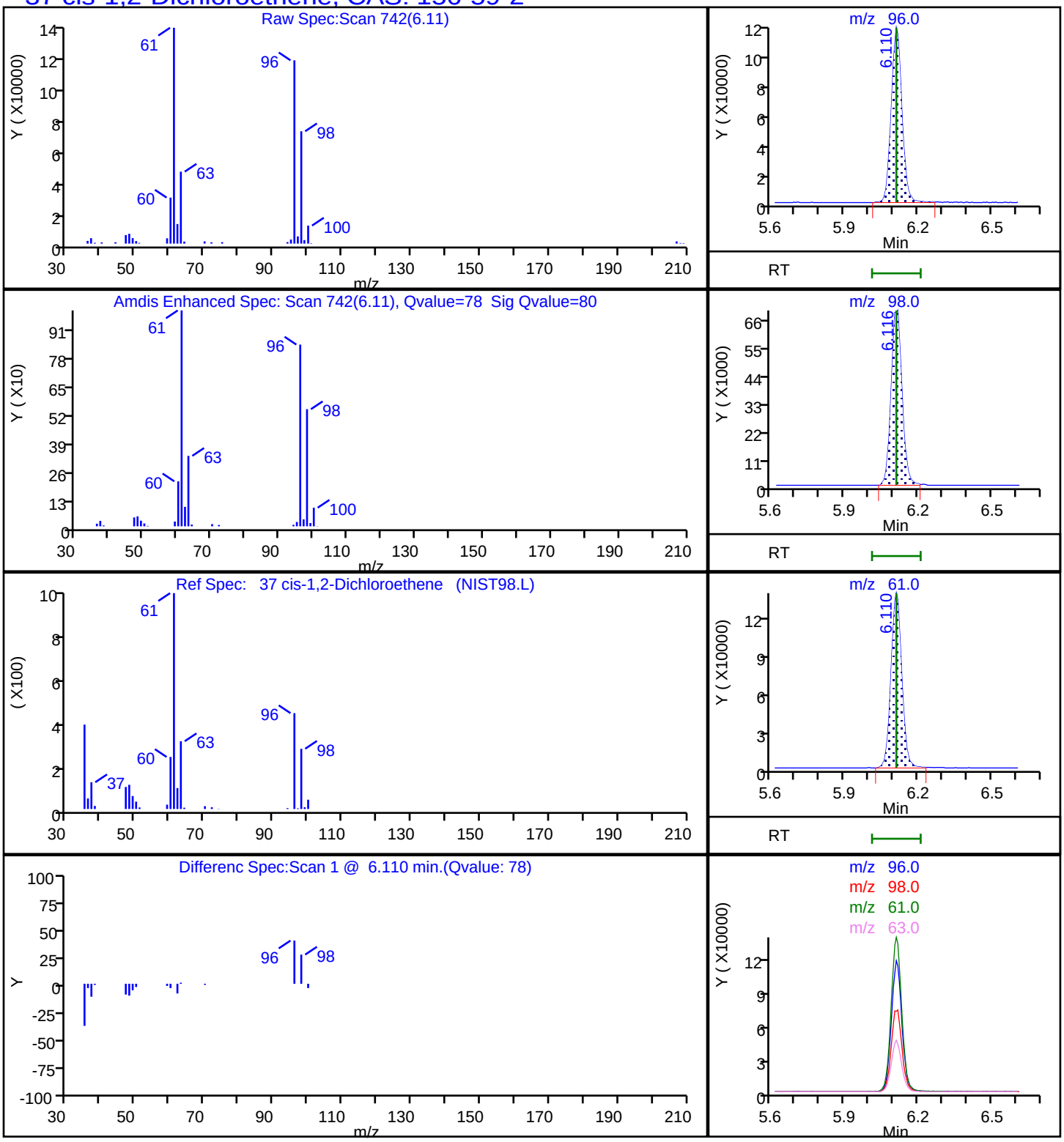
45 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X22.D				
Injection Date:	03-Dec-2021 16:53:30	Instrument ID:	19930		
Lims ID:	410-64660-A-8	Lab Sample ID:	410-64660-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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



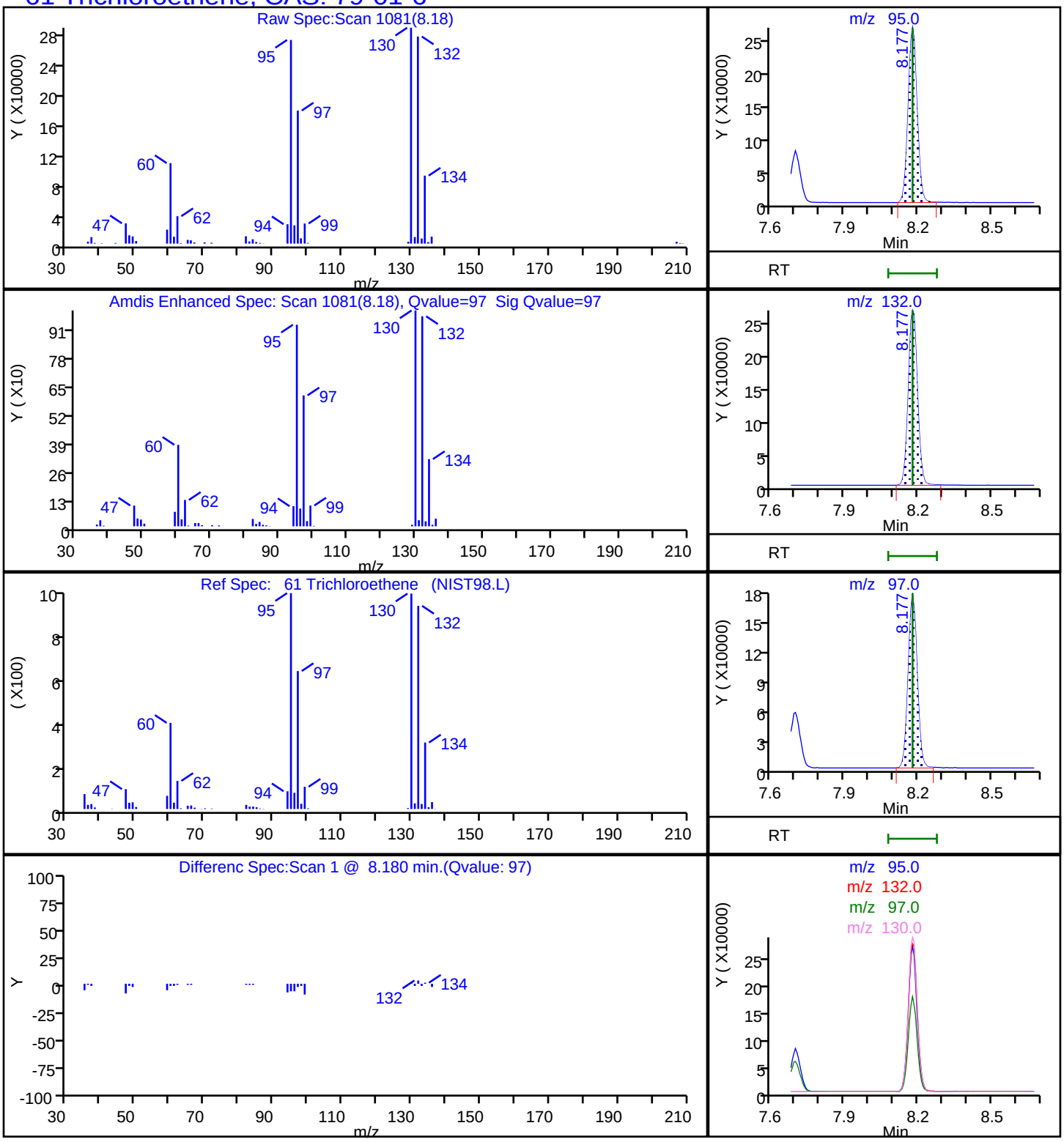
Report Date: 03-Dec-2021 17:44:14 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X22.D

Injection Date:	03-Dec-2021 16:53:30	Instrument ID:	19930		
Lims ID:	410-64660-A-8	Lab Sample ID:	410-64660-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

61 Trichloroethene, CAS: 79-01-6



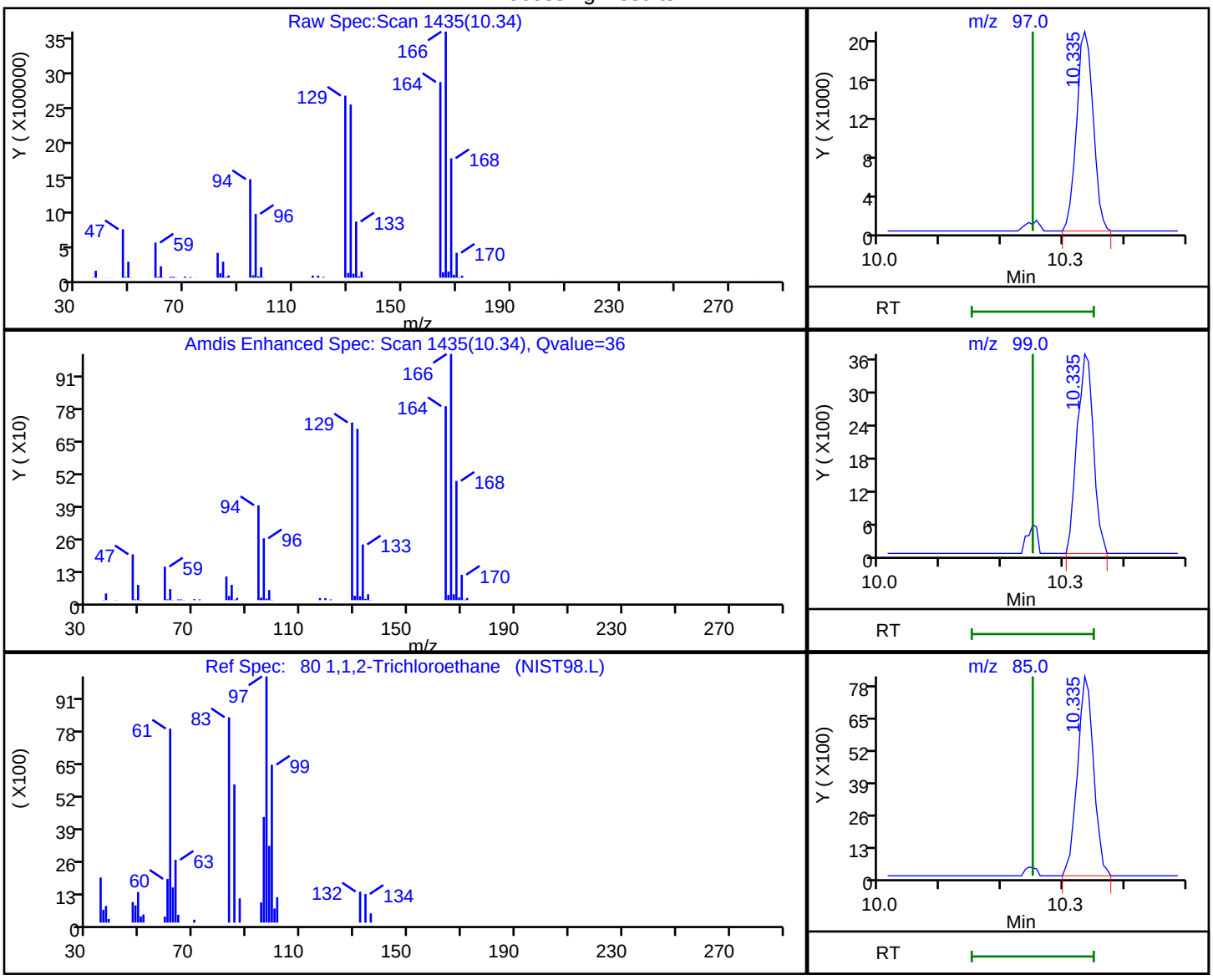
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X22.D				
Injection Date:	03-Dec-2021 16:53:30	Instrument ID:	19930		
Lims ID:	410-64660-A-8	Lab Sample ID:	410-64660-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

80 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
10.34	97.00	38383	0.789264
10.34	99.00	6835	
10.34	85.00	14982	
10.34	83.00	112361	

Reviewer: beckerk, 03-Dec-2021 17:43:46

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

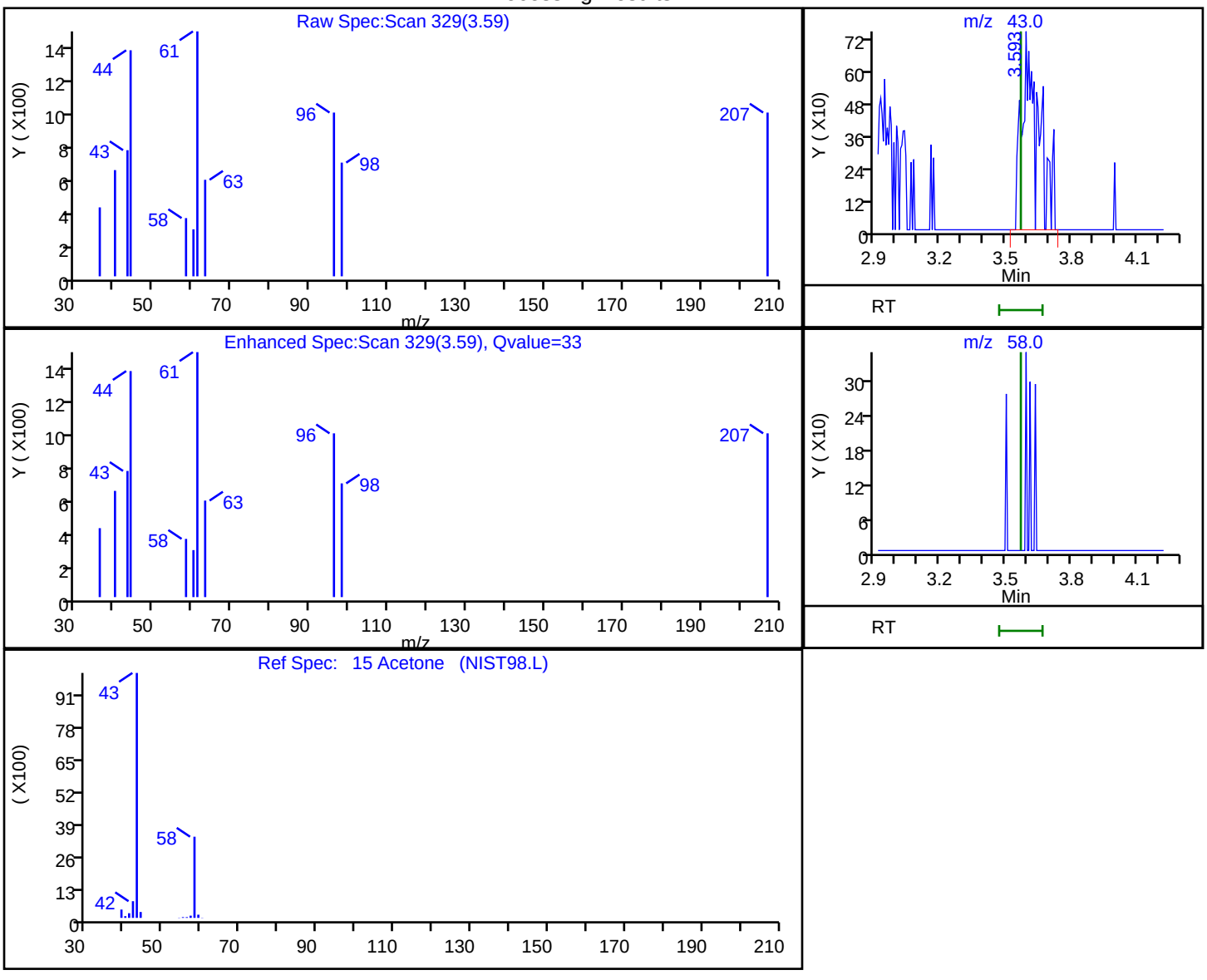
User Disabled Compound Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X22.D				
Injection Date:	03-Dec-2021 16:53:30	Instrument ID:	19930		
Lims ID:	410-64660-A-8	Lab Sample ID:	410-64660-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

15 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.59	43.00	3917	0.656057
3.57	58.00	0	

Reviewer: beckerk, 03-Dec-2021 17:43:00

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

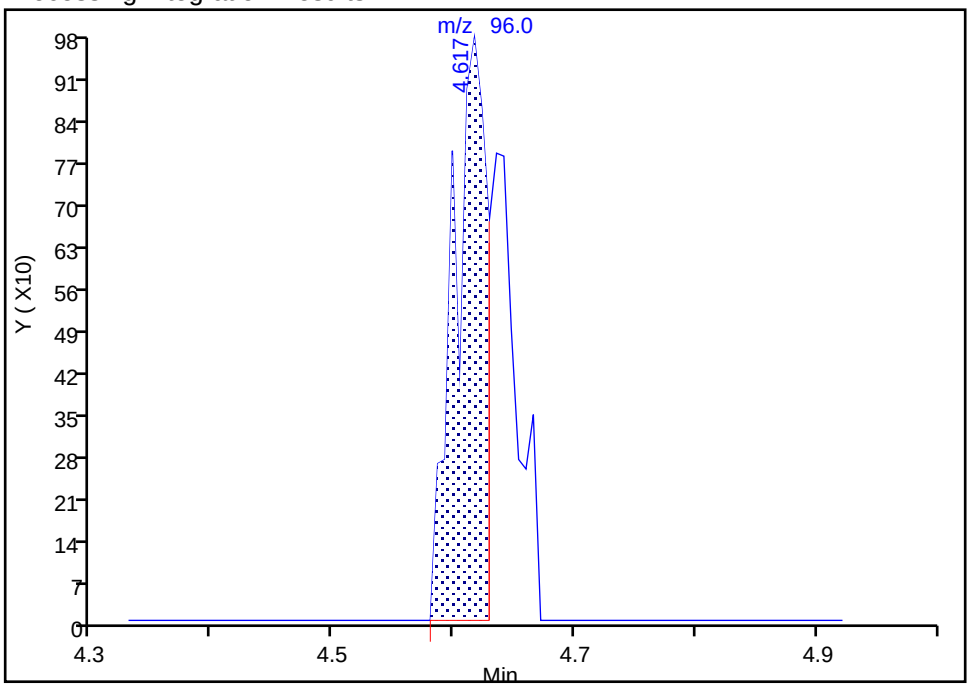
Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X22.D				
Injection Date:	03-Dec-2021 16:53:30	Instrument ID:	19930		
Lims ID:	410-64660-A-8	Lab Sample ID:	410-64660-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

28 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

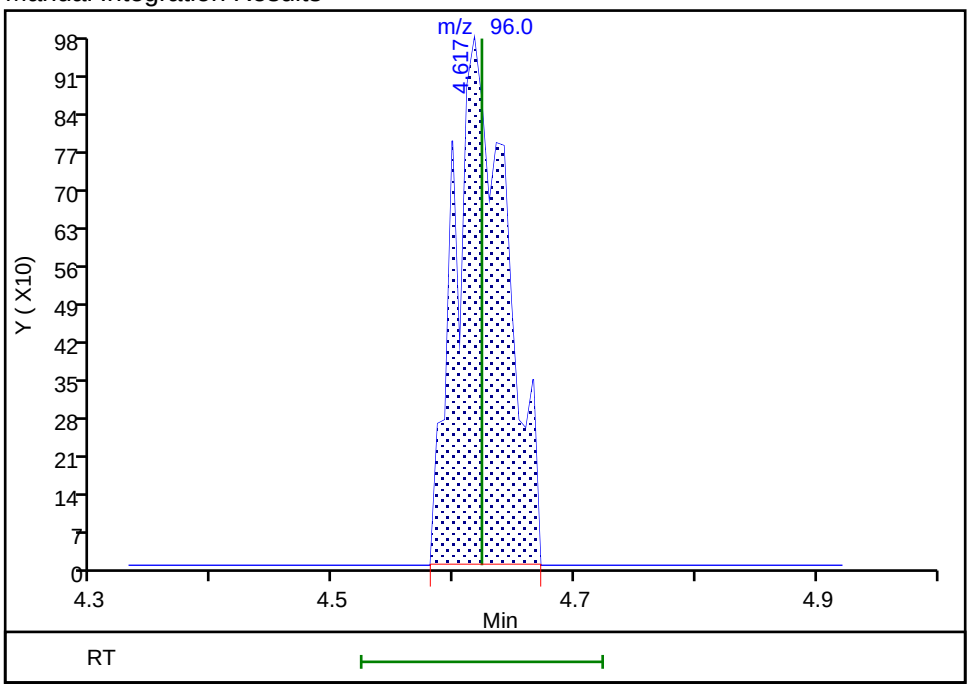
Processing Integration Results

RT: 4.62
Area: 1861
Amount: 0.029087
Amount Units: ug/l



Manual Integration Results

RT: 4.62
Area: 2914
Amount: 0.045546
Amount Units: ug/l



Reviewer: beckerk, 03-Dec-2021 17:43:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0 DL Lab Sample ID: 410-64660-8 DL

Matrix: Water Lab File ID: GD04X22.D

Analysis Method: 8260D Date Collected: 11/23/2021 09:40

Sample wt/vol: 25(mL) Date Analyzed: 12/04/2021 17:24

Soil Aliquot Vol: Dilution Factor: 10

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201490 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	61		5.0	0.60

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04X22.D
Lims ID: 410-64660-B-8 DL
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 04-Dec-2021 17:24:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0045539-023
Misc. Info.: 410-64660-B-8
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 04-Dec-2021 22:54:50 Calib Date: 27-Jul-2021 21:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1633

First Level Reviewer: johnsons Date: 04-Dec-2021 22:51:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.142				ND	
8 Vinyl chloride	62		2.258				ND	7
9 Bromomethane	94		2.587				ND	
10 Chloroethane	64		2.660				ND	
19 1,1-Dichloroethene	96	3.513	3.507	0.006	8	2076	0.0467	
21 Acetone	43		3.562				ND	7
25 Carbon disulfide	76		3.800				ND	7
29 Methylene Chloride	84		4.166				ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.220	4.245	-0.025	70	191888	50.0	
33 Methyl tert-butyl ether	73		4.568				ND	
34 trans-1,2-Dichloroethene	96		4.580				ND	
37 1,1-Dichloroethane	63	5.245	5.245	0.000	0	5881	0.0673	M
41 2-Butanone (MEK)	43		6.049				ND	
42 cis-1,2-Dichloroethene	96	6.068	6.080	-0.012	79	20114	0.3631	
49 Chlorobromomethane	128		6.403				ND	
51 Chloroform	83		6.568				ND	
$ 52 Dibromofluoromethane (Surr)	113	6.769	6.775	-0.006	93	546546	10.3	
53 1,1,1-Trichloroethane	97	6.781	6.781	0.000	37	39524	0.5269	
56 Carbon tetrachloride	117		6.994				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.220	7.226	-0.006	30	112359	9.52	
60 Benzene	78		7.250				ND	
61 1,2-Dichloroethane	62		7.324				ND	7
* 64 Fluorobenzene (IS)	96	7.659	7.659	0.000	99	2130973	10.0	
68 Trichloroethene	95	8.128	8.134	-0.006	95	41174	0.7536	
70 1,2-Dichloropropane	63		8.470				ND	
76 Dichlorobromomethane	83		8.817				ND	
81 cis-1,3-Dichloropropene	75		9.366				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.543				ND	
$ 83 Toluene-d8 (Surr)	98	9.671	9.671	0.000	93	2106360	9.73	
84 Toluene	92		9.750				ND	7
96 trans-1,3-Dichloropropene	75		10.006				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
99 1,1,2-Trichloroethane	97		10.213				ND	U
100 Tetrachloroethene	166	10.299	10.299	0.000	98	383241	6.05	
102 2-Hexanone	43		10.433				ND	
104 Chlorodibromomethane	129		10.585				ND	
105 Ethylene Dibromide	107		10.695				ND	
* 106 Chlorobenzene-d5 (IS)	117	11.128	11.128	0.000	84	1662196	10.0	
108 Chlorobenzene	112		11.152				ND	
110 1,1,1,2-Tetrachloroethane	131		11.237				ND	
111 Ethylbenzene	91		11.237				ND	7
S 109 Xylenes, Total	106		11.245				ND	7
112 m-Xylene & p-Xylene	106		11.353				ND	7
113 o-Xylene	106		11.683				ND	
114 Styrene	104		11.695				ND	
115 Bromoform	173		11.853				ND	
$ 119 4-Bromofluorobenzene (Surr)	95	12.127	12.121	0.006	92	787243	9.95	
120 1,1,2,2-Tetrachloroethane	83		12.225				ND	
* 134 1,4-Dichlorobenzene-d4	152	12.999	12.999	0.000	95	909723	10.0	

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected

Reagents:

MSV_29_826ISS_00026 Amount Added: 1.00 Units: uL Run Reagent

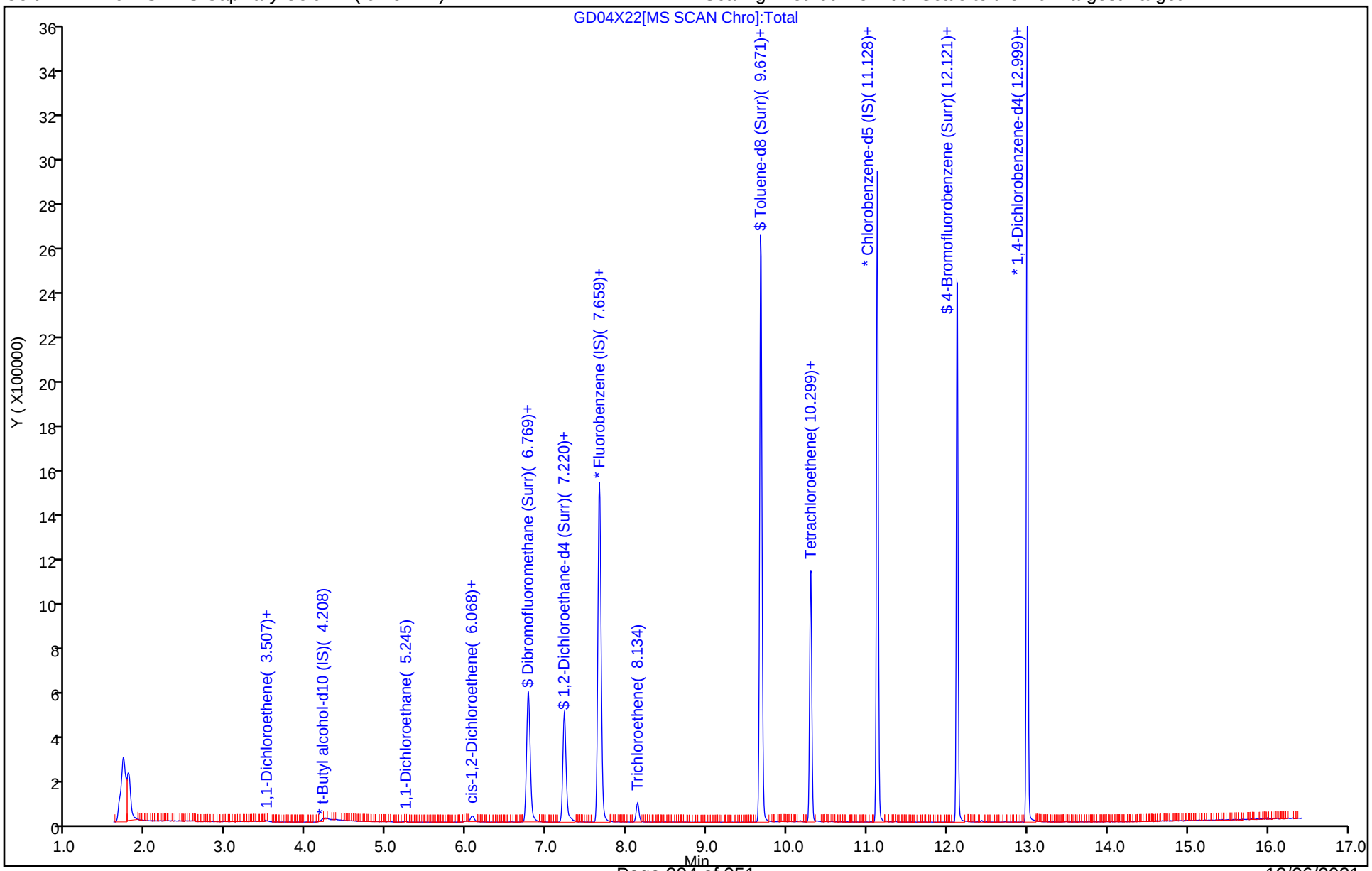
Report Date: 04-Dec-2021 22:56:26 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04X22.D

Injection Date:	04-Dec-2021 17:24:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-64660-B-8 DL	Lab Sample ID:	410-64660-8	Worklist Smp#:	23
Client ID:	HD-COD-SW-17-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	22
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04X22.D
Lims ID: 410-64660-B-8 DL
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 04-Dec-2021 17:24:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0045539-023
Misc. Info.: 410-64660-B-8
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 04-Dec-2021 22:54:50 Calib Date: 27-Jul-2021 21:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1633

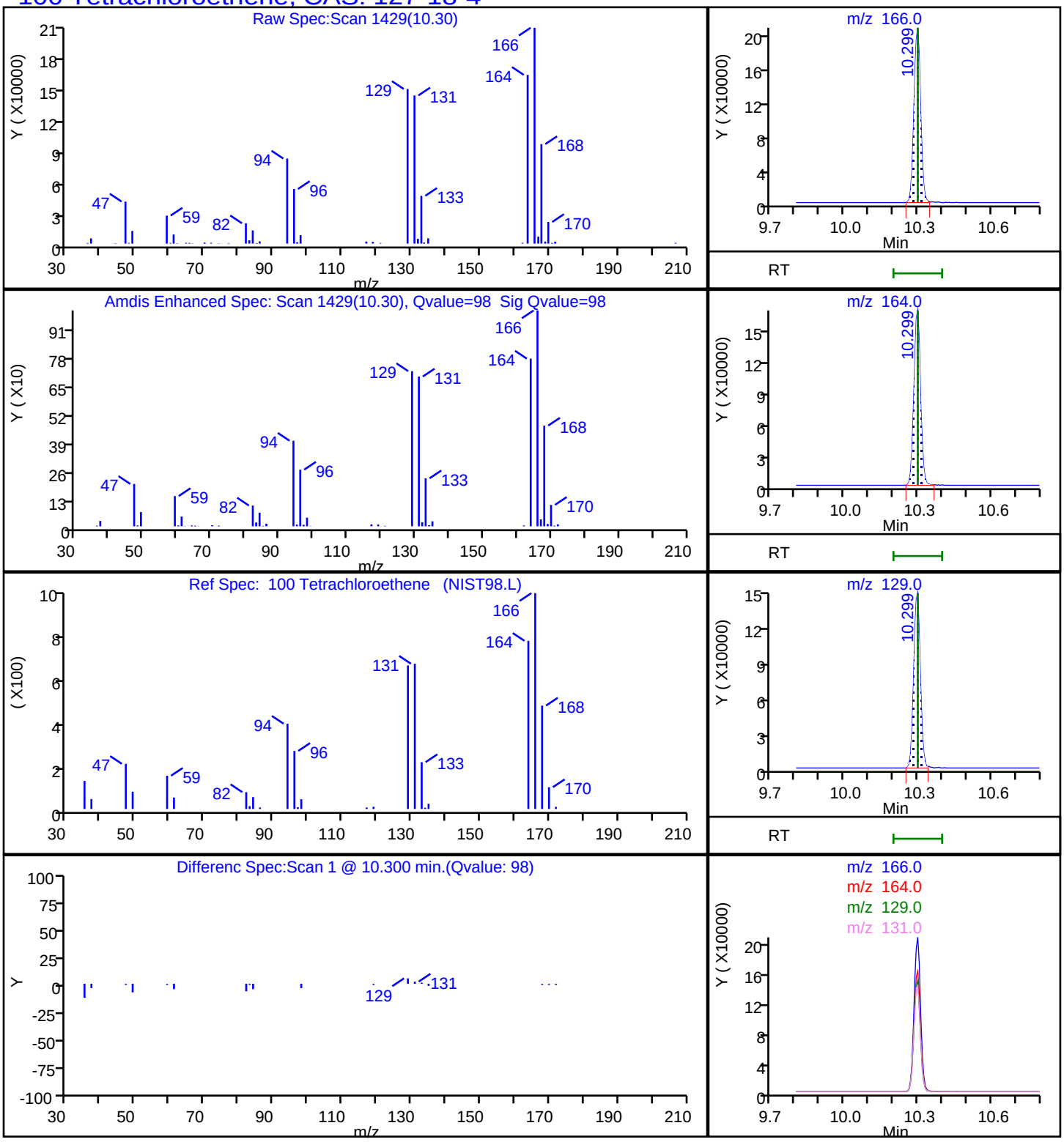
First Level Reviewer: johnsons Date: 04-Dec-2021 22:51:29

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.3	102.93
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.52	95.15
$ 83 Toluene-d8 (Surr)	10.0	9.73	97.31
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.95	99.49

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04X22.D				
Injection Date:	04-Dec-2021 17:24:30	Instrument ID:	16334		
Lims ID:	410-64660-B-8 DL	Lab Sample ID:	410-64660-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	knk41612	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	10.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

100 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-26-0/1-0 Lab Sample ID: 410-64660-9

Matrix: Water Lab File ID: ID03X23.D

Analysis Method: 8260D Date Collected: 11/23/2021 10:25

Sample wt/vol: 25(mL) Date Analyzed: 12/03/2021 17:14

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201082 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	0.20	J	0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND		5.0	0.60
591-78-6	2-Hexanone	ND		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70
67-64-1	Acetone	ND		5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	0.80		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.093	J	0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	4.1		0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	0.20	J	0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-26-0/1-0 Lab Sample ID: 410-64660-9

Matrix: Water Lab File ID: ID03X23.D

Analysis Method: 8260D Date Collected: 11/23/2021 10:25

Sample wt/vol: 25(mL) Date Analyzed: 12/03/2021 17:14

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201082 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		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)	100		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X23.D
Lims ID: 410-64660-A-9
Client ID: HD-COD-SW-26-0/1-0
Sample Type: Client
Inject. Date: 03-Dec-2021 17:14:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045448-024
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 03-Dec-2021 20:36:37 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1678

First Level Reviewer: beckerk Date: 03-Dec-2021 20:33:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.172				ND	
5 Vinyl chloride	62		2.288				ND	
7 Bromomethane	94		2.617				ND	
8 Chloroethane	64		2.690				ND	
14 1,1-Dichloroethene	96	3.538	3.544	-0.006	97	11110	0.1951	
15 Acetone	43		3.568				ND	U
19 Carbon disulfide	76		3.849				ND	7
23 Methylene Chloride	84		4.202				ND	
* 24 t-Butyl alcohol-d10 (IS)	65	4.245	4.208	0.037	1	142041	50.0	
27 Methyl tert-butyl ether	73		4.605				ND	7
28 trans-1,2-Dichloroethene	96		4.623				ND	
31 1,1-Dichloroethane	63		5.281				ND	
36 2-Butanone (MEK)	43		6.068				ND	
37 cis-1,2-Dichloroethene	96	6.098	6.110	-0.012	78	6689	0.0929	
43 Chlorobromomethane	128		6.446				ND	
45 Chloroform	83	6.580	6.592	-0.012	93	93128	0.8012	
$ 46 Dibromofluoromethane (Surr)	113	6.799	6.805	-0.006	94	602888	10.0	
47 1,1,1-Trichloroethane	97	6.805	6.824	-0.019	35	3636	0.0337	
50 Carbon tetrachloride	117		7.037				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.257	7.257	0.000	83	123298	10.3	
54 Benzene	78		7.293				ND	
56 1,2-Dichloroethane	62		7.366				ND	
* 58 Fluorobenzene (IS)	96	7.689	7.695	-0.006	99	2385496	10.0	
61 Trichloroethene	95	8.177	8.177	0.000	96	14137	0.1961	
63 1,2-Dichloropropane	63		8.506				ND	
68 Dichlorobromomethane	83	8.848	8.854	-0.006	91	3188	0.0399	
73 cis-1,3-Dichloropropene	75		9.402				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.567				ND	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2488602	10.0	
76 Toluene	92	9.787	9.787	0.000	96	5711	0.0310	
78 trans-1,3-Dichloropropene	75		10.043				ND	
80 1,1,2-Trichloroethane	97		10.250				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
81 Tetrachloroethene	166	10.335	10.335	0.000	98	356859	4.07	
83 2-Hexanone	43		10.457				ND	
85 Chlorodibromomethane	129		10.628				ND	
86 Ethylene Dibromide	107		10.738				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	1920151	10.0	
90 Chlorobenzene	112		11.195				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.274				ND	
92 Ethylbenzene	91		11.280				ND	7
93 m-Xylene & p-Xylene	106		11.390				ND	7
94 o-Xylene	106		11.719				ND	7
95 Styrene	104		11.737				ND	
96 Bromoform	173		11.896				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	93	941666	9.93	
101 1,1,2,2-Tetrachloroethane	83		12.262				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.048	13.042	0.006	94	1102063	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_LLcentISS_00002 Amount Added: 5.00 Units: uL Run Reagent

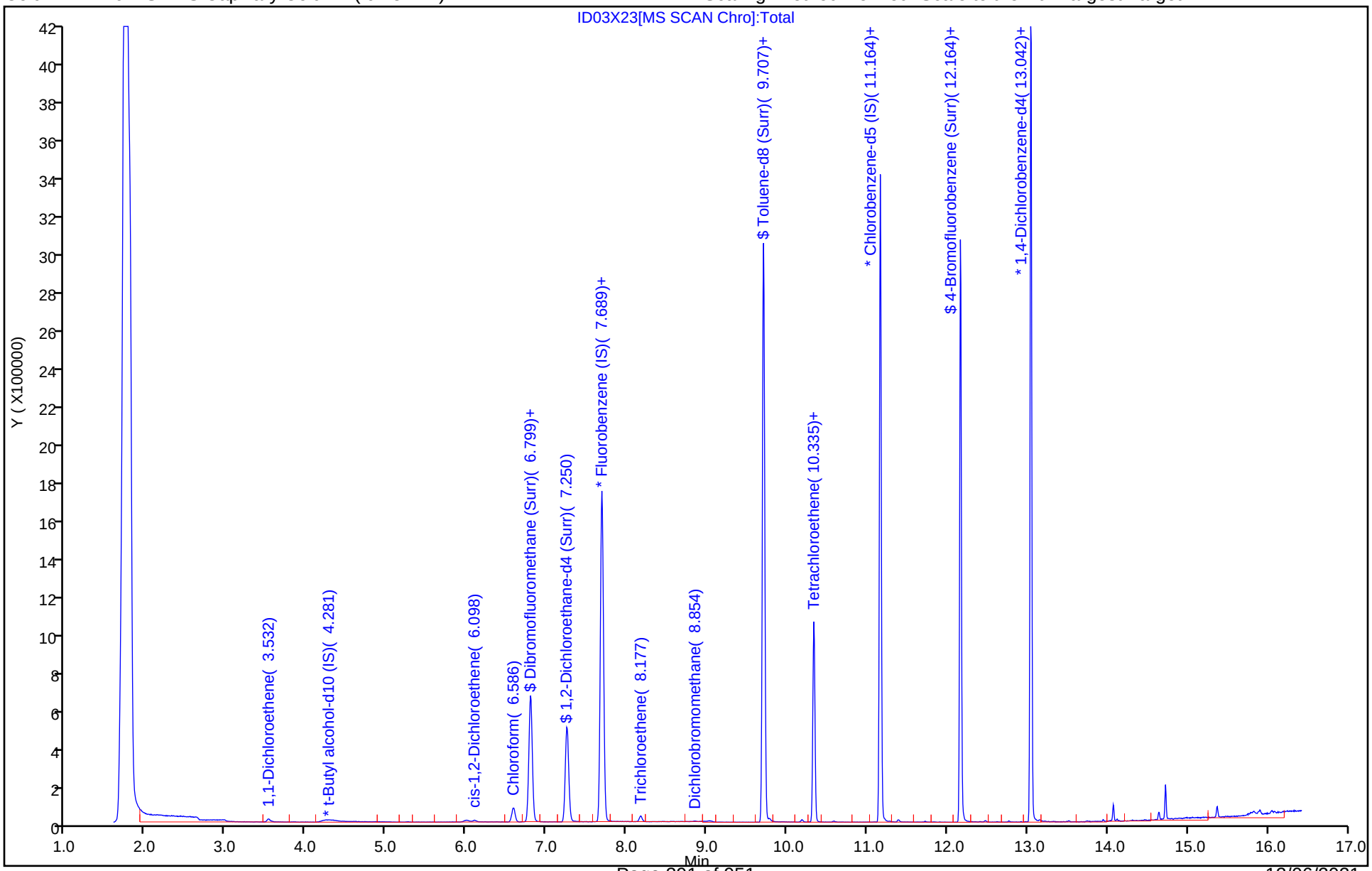
Report Date: 03-Dec-2021 20:36:48 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X23.D

Injection Date:	03-Dec-2021 17:14:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	410-64660-A-9	Lab Sample ID:	410-64660-9	Worklist Smp#:	24
Client ID:	HD-COD-SW-26-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X23.D				
Lims ID:	410-64660-A-9				
Client ID:	HD-COD-SW-26-0/1-0				
Sample Type:	Client				
Inject. Date:	03-Dec-2021 17:14:30	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0045448-024				
Operator ID:	KNK41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	03-Dec-2021 20:36:37	Calib Date:	24-Aug-2021 02:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1678				

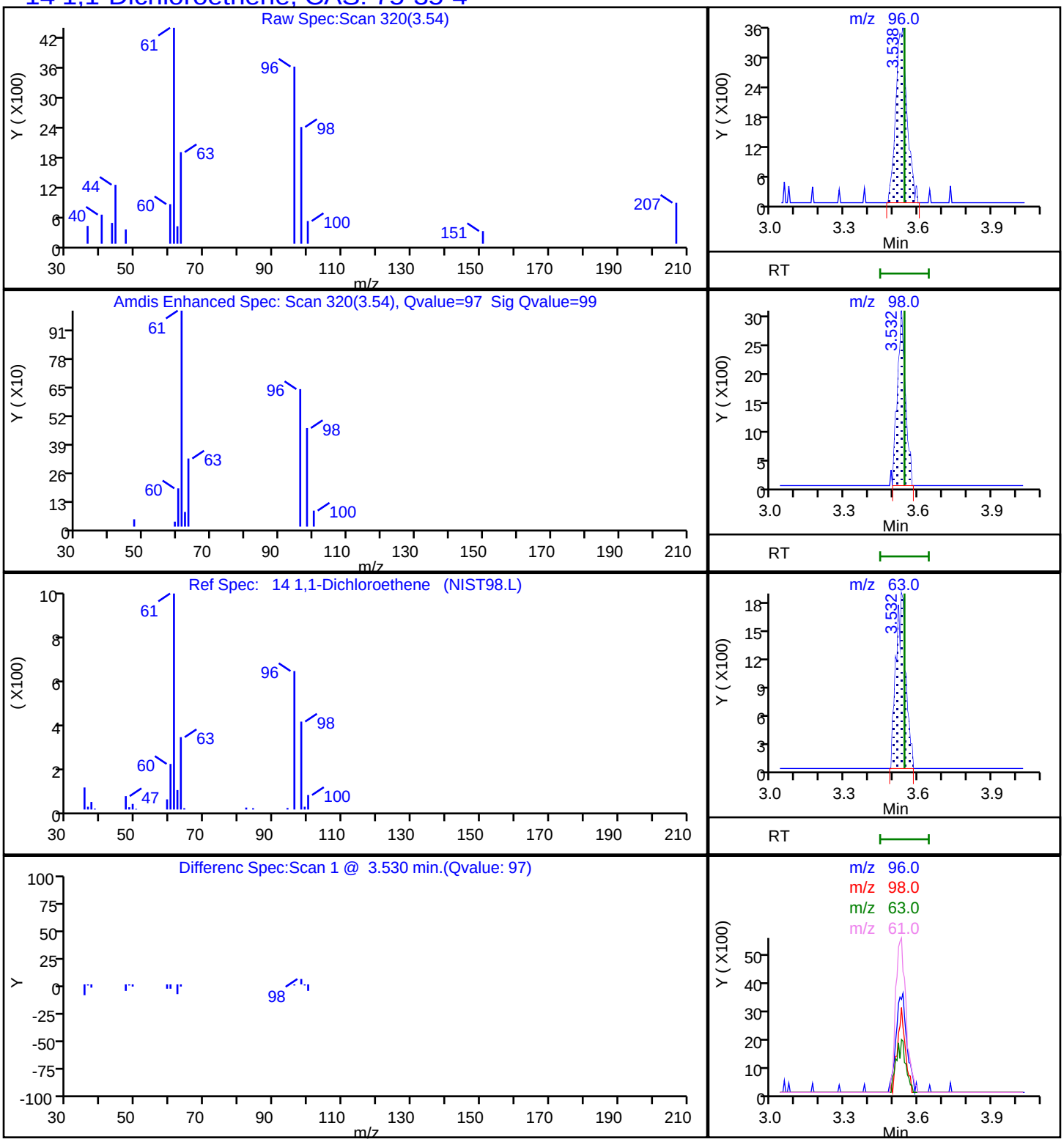
First Level Reviewer: beckerk Date: 03-Dec-2021 20:33:48

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.0	100.33
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	102.56
$ 75 Toluene-d8 (Surr)	10.0	10.0	100.29
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.93	99.29

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X23.D				
Injection Date:	03-Dec-2021 17:14:30	Instrument ID:	19930		
Lims ID:	410-64660-A-9	Lab Sample ID:	410-64660-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

14 1,1-Dichloroethene, CAS: 75-35-4



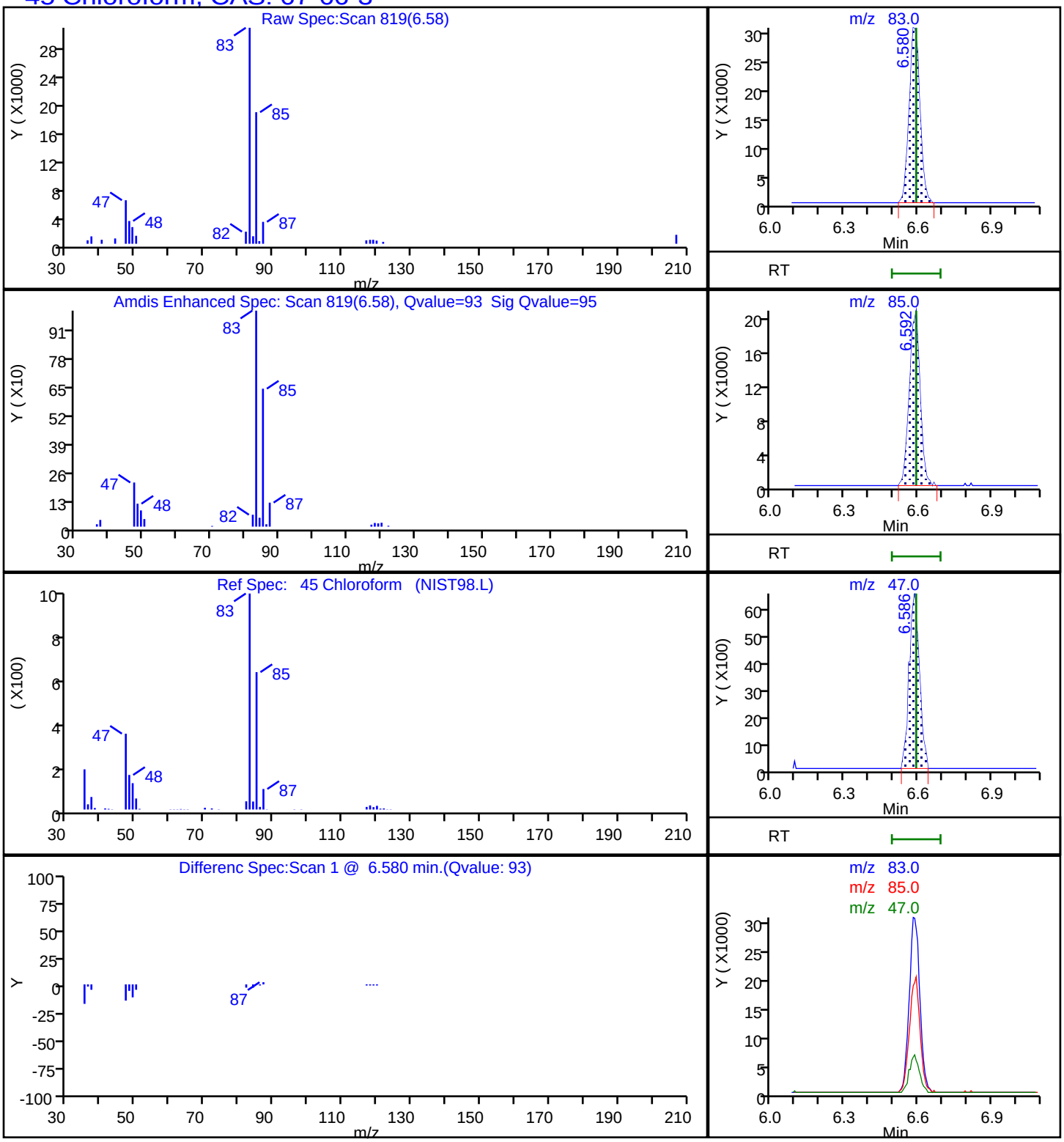
Report Date: 03-Dec-2021 20:36:48 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X23.D

Injection Date:	03-Dec-2021 17:14:30	Instrument ID:	19930		
Lims ID:	410-64660-A-9	Lab Sample ID:	410-64660-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

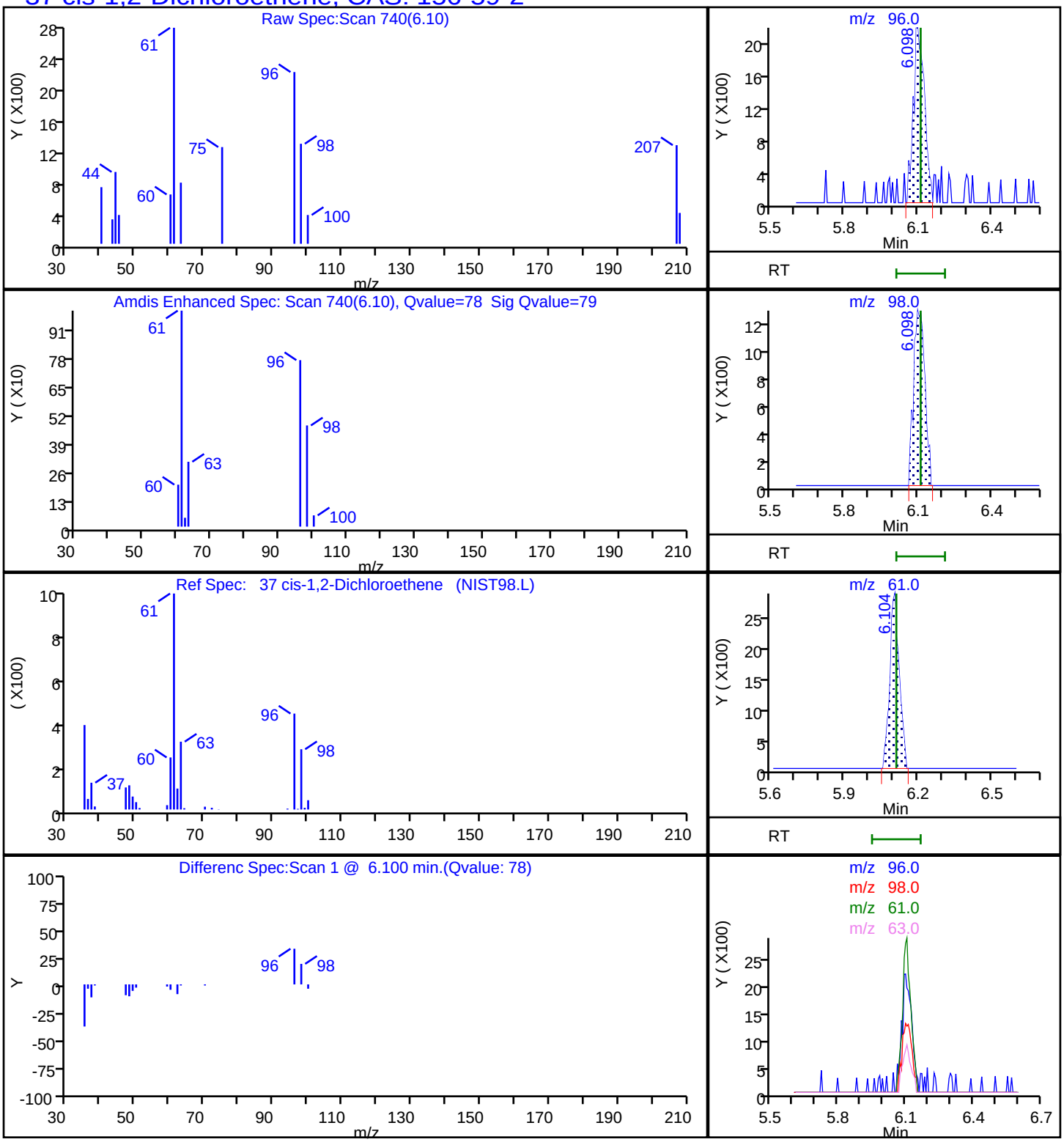
45 Chloroform, CAS: 67-66-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X23.D				
Injection Date:	03-Dec-2021 17:14:30	Instrument ID:	19930		
Lims ID:	410-64660-A-9	Lab Sample ID:	410-64660-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

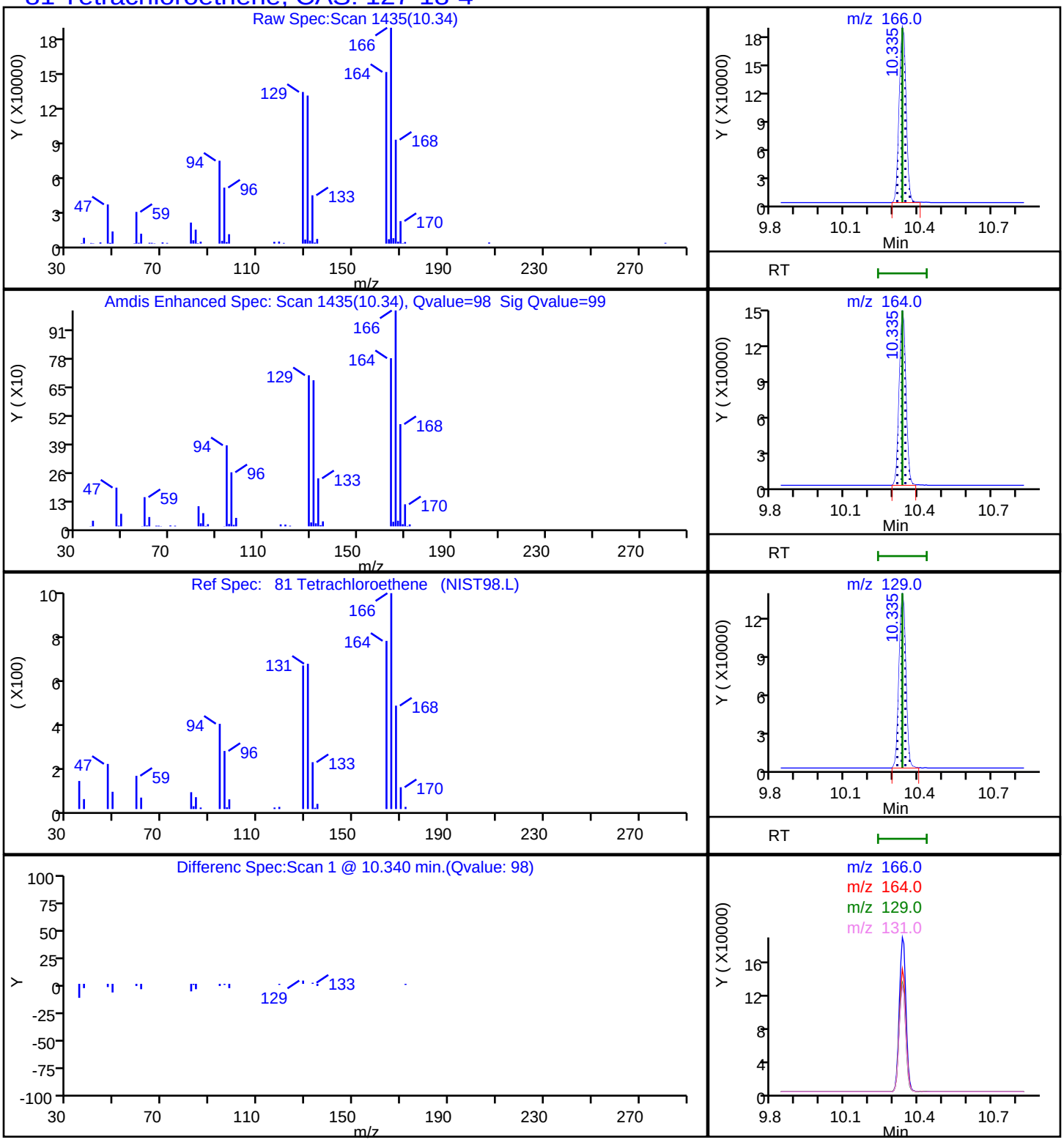
37 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X23.D				
Injection Date:	03-Dec-2021 17:14:30	Instrument ID:	19930		
Lims ID:	410-64660-A-9	Lab Sample ID:	410-64660-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

81 Tetrachloroethene, CAS: 127-18-4



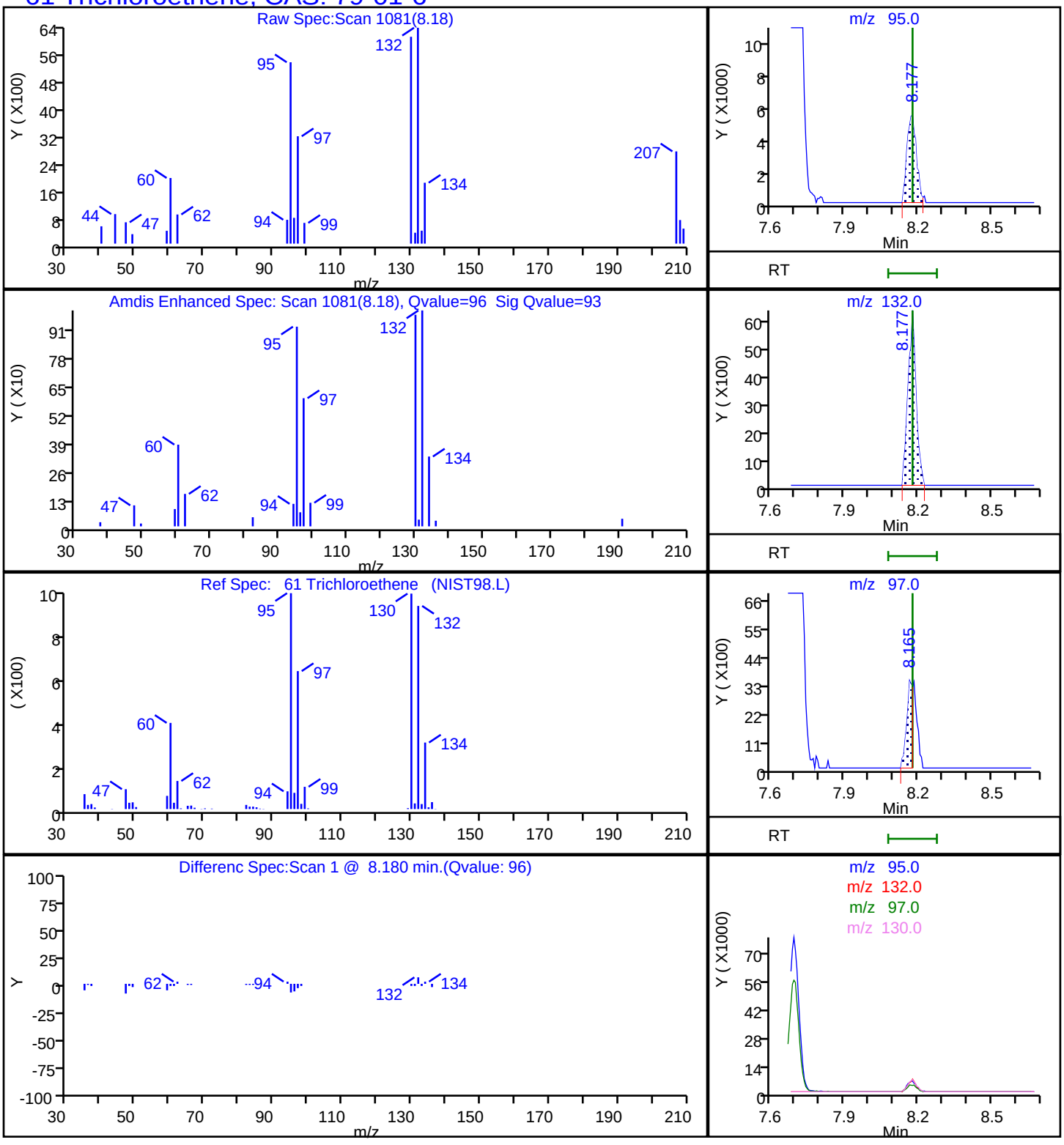
Report Date: 03-Dec-2021 20:36:48 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X23.D

Injection Date:	03-Dec-2021 17:14:30	Instrument ID:	19930		
Lims ID:	410-64660-A-9	Lab Sample ID:	410-64660-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

61 Trichloroethene, CAS: 79-01-6



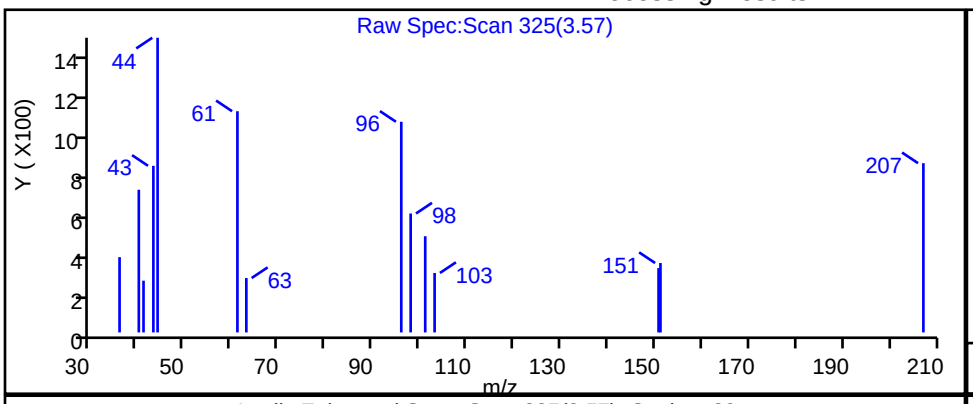
User Disabled Compound Report

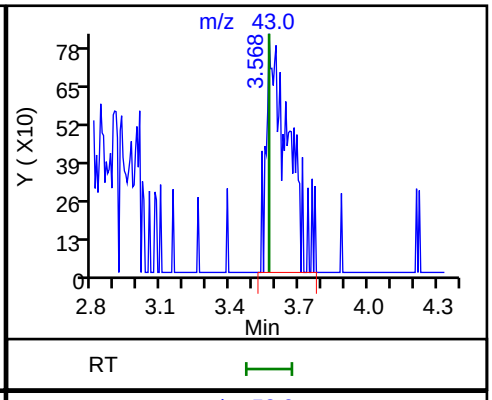
Eurofins Lancaster Laboratories Env, LLC

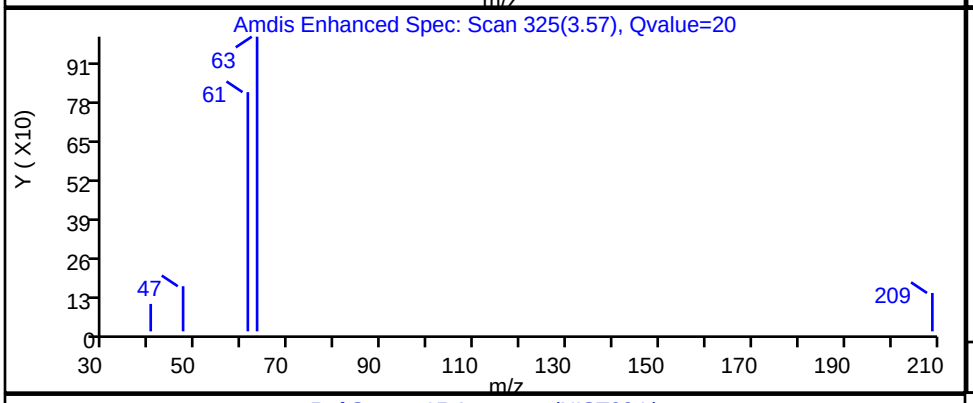
Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X23.D				
Injection Date:	03-Dec-2021 17:14:30	Instrument ID:	19930		
Lims ID:	410-64660-A-9	Lab Sample ID:	410-64660-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

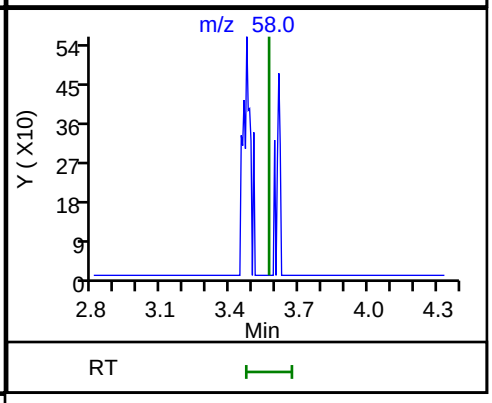
15 Acetone, CAS: 67-64-1

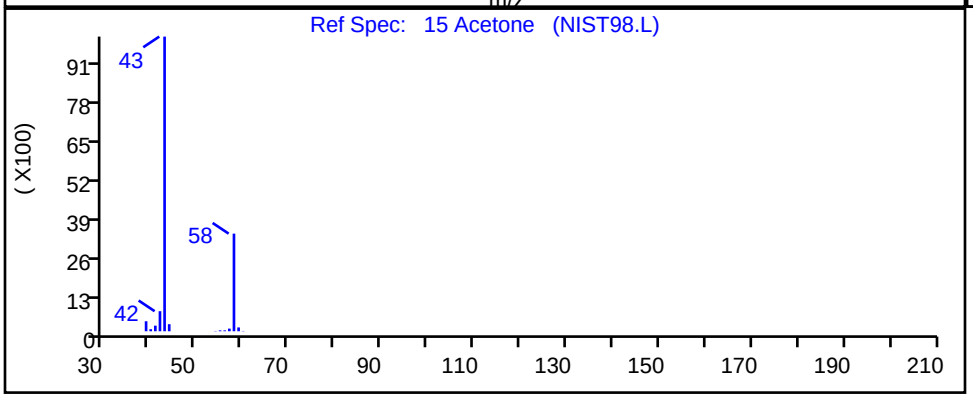
Processing Results











RT	Mass	Response	Amount
3.57	43.00	5546	0.702855
3.57	58.00	0	

Reviewer: beckerk, 03-Dec-2021 20:33:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-27-0/1-0 Lab Sample ID: 410-64660-10

Matrix: Water Lab File ID: ID03X24.D

Analysis Method: 8260D Date Collected: 11/23/2021 10:55

Sample wt/vol: 25(mL) Date Analyzed: 12/03/2021 17:35

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201082 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND		5.0	0.60
591-78-6	2-Hexanone	ND		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70
67-64-1	Acetone	1.2	J	5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	0.073	J	1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.11	J	0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	0.098	J	0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	0.15	J	0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-27-0/1-0 Lab Sample ID: 410-64660-10

Matrix: Water Lab File ID: ID03X24.D

Analysis Method: 8260D Date Collected: 11/23/2021 10:55

Sample wt/vol: 25(mL) Date Analyzed: 12/03/2021 17:35

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201082 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X24.D
Lims ID: 410-64660-A-10
Client ID: HD-COD-SW-27-0/1-0
Sample Type: Client
Inject. Date: 03-Dec-2021 17:35:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045448-025
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 03-Dec-2021 20:36:37 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1678

First Level Reviewer: beckerk Date: 03-Dec-2021 20:34:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.172	2.172	0.000	1	4512	0.0536	
5 Vinyl chloride	62		2.288				ND	
7 Bromomethane	94		2.617				ND	7
8 Chloroethane	64		2.690				ND	
14 1,1-Dichloroethene	96		3.544				ND	7
15 Acetone	43	3.562	3.568	-0.006	98	12441	1.19	
19 Carbon disulfide	76	3.842	3.849	-0.007	98	11441	0.0735	
23 Methylene Chloride	84		4.202				ND	
* 24 t-Butyl alcohol-d10 (IS)	65	4.202	4.208	-0.006	18	187936	50.0	
27 Methyl tert-butyl ether	73		4.605				ND	
28 trans-1,2-Dichloroethene	96		4.623				ND	
31 1,1-Dichloroethane	63		5.281				ND	
36 2-Butanone (MEK)	43		6.068				ND	7
37 cis-1,2-Dichloroethene	96	6.116	6.110	0.006	78	8026	0.1124	
43 Chlorobromomethane	128		6.446				ND	
45 Chloroform	83	6.592	6.592	0.000	88	7726	0.0671	
$ 46 Dibromofluoromethane (Surr)	113	6.805	6.805	0.000	94	601101	10.1	
47 1,1,1-Trichloroethane	97		6.824				ND	
50 Carbon tetrachloride	117		7.037				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.256	7.257	-0.001	83	121069	10.2	
54 Benzene	78		7.293				ND	7
56 1,2-Dichloroethane	62		7.366				ND	
* 58 Fluorobenzene (IS)	96	7.695	7.695	0.000	99	2363508	10.0	
61 Trichloroethene	95	8.177	8.177	0.000	92	10601	0.1484	
63 1,2-Dichloropropane	63		8.506				ND	
68 Dichlorobromomethane	83		8.854				ND	7
73 cis-1,3-Dichloropropene	75		9.402				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.567				ND	7
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2500829	10.1	
76 Toluene	92	9.786	9.787	-0.001	99	7456	0.0406	
78 trans-1,3-Dichloropropene	75		10.043				ND	
80 1,1,2-Trichloroethane	97		10.250				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
81 Tetrachloroethene	166	10.341	10.335	0.006	96	8593	0.0981	
83 2-Hexanone	43		10.457				ND	7
85 Chlorodibromomethane	129		10.628				ND	
86 Ethylene Dibromide	107		10.738				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	1917061	10.0	
90 Chlorobenzene	112		11.195				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.274				ND	
92 Ethylbenzene	91		11.280				ND	7
93 m-Xylene & p-Xylene	106		11.390				ND	7
94 o-Xylene	106		11.719				ND	7
95 Styrene	104		11.737				ND	7
96 Bromoform	173		11.896				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	93	943407	9.96	
101 1,1,2,2-Tetrachloroethane	83		12.262				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.048	13.042	0.006	94	1114182	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00002 Amount Added: 5.00 Units: uL Run Reagent

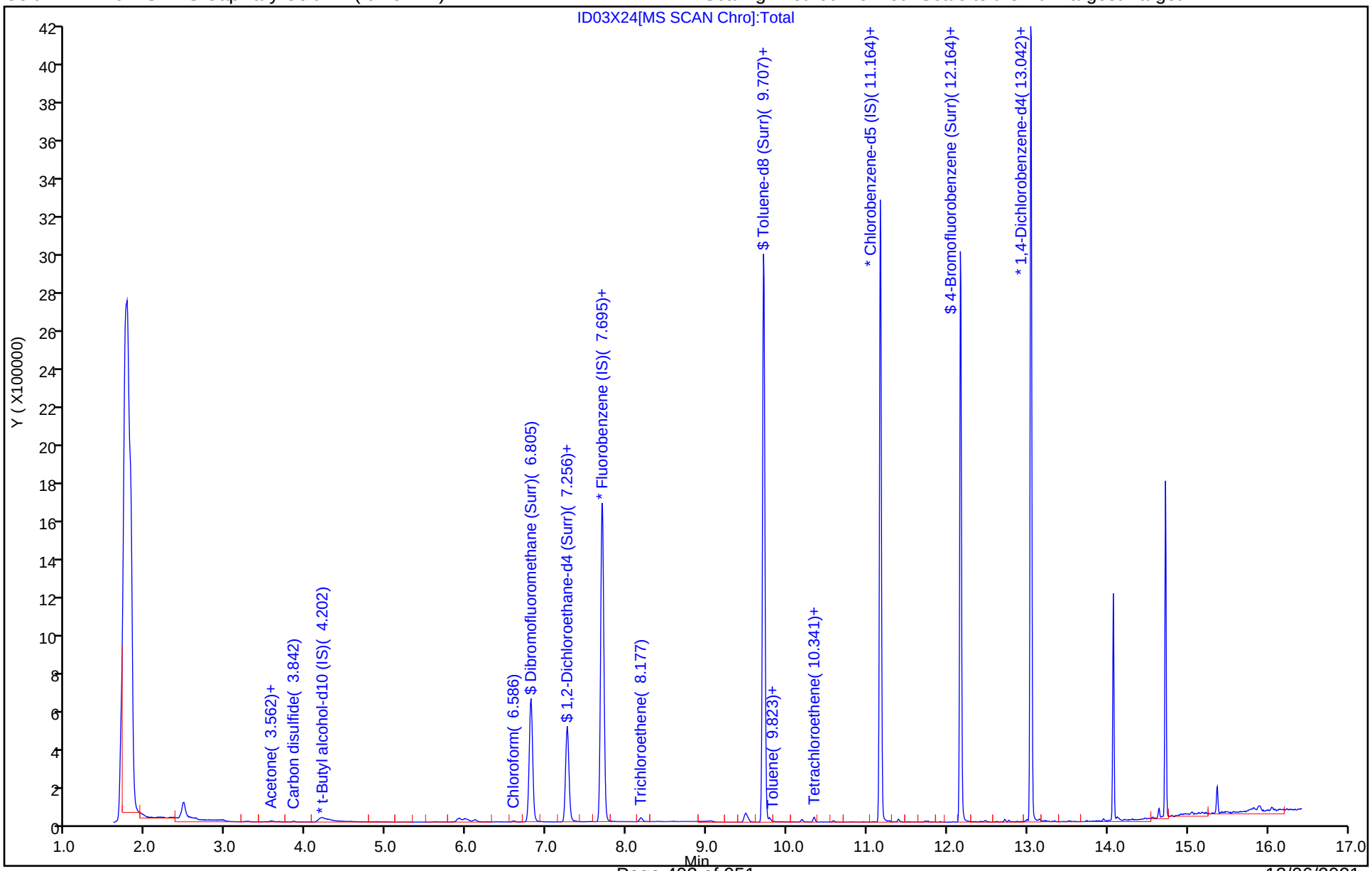
Report Date: 03-Dec-2021 20:36:49 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X24.D

Injection Date:	03-Dec-2021 17:35:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	410-64660-A-10	Lab Sample ID:	410-64660-10	Worklist Smp#:	25
Client ID:	HD-COD-SW-27-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X24.D
Lims ID: 410-64660-A-10
Client ID: HD-COD-SW-27-0/1-0
Sample Type: Client
Inject. Date: 03-Dec-2021 17:35:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045448-025
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 03-Dec-2021 20:36:37 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1678

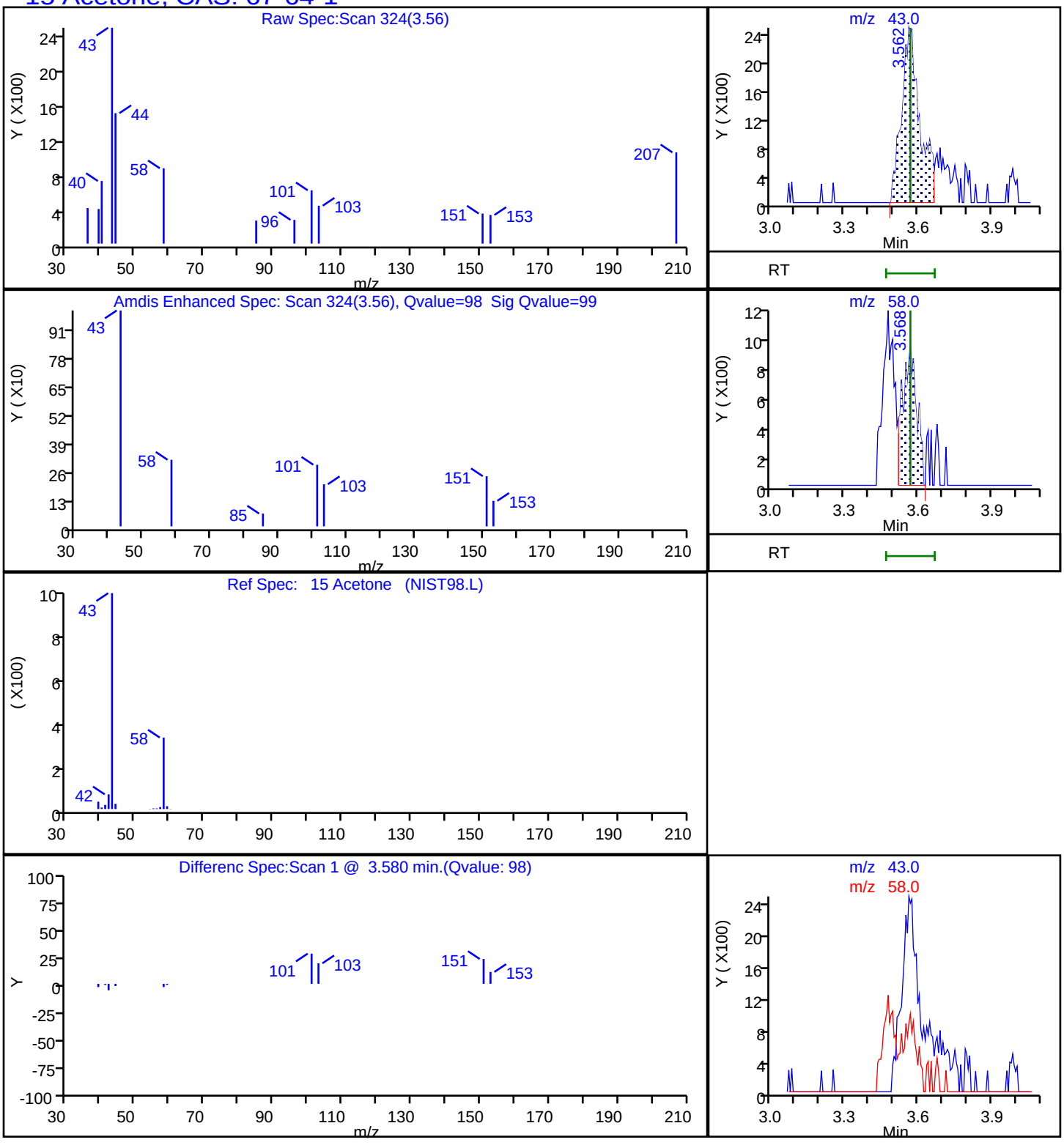
First Level Reviewer: beckerk Date: 03-Dec-2021 20:34:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.1	100.96
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	101.65
$ 75 Toluene-d8 (Surr)	10.0	10.1	100.94
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.96	99.64

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X24.D				
Injection Date:	03-Dec-2021 17:35:30	Instrument ID:	19930		
Lims ID:	410-64660-A-10	Lab Sample ID:	410-64660-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

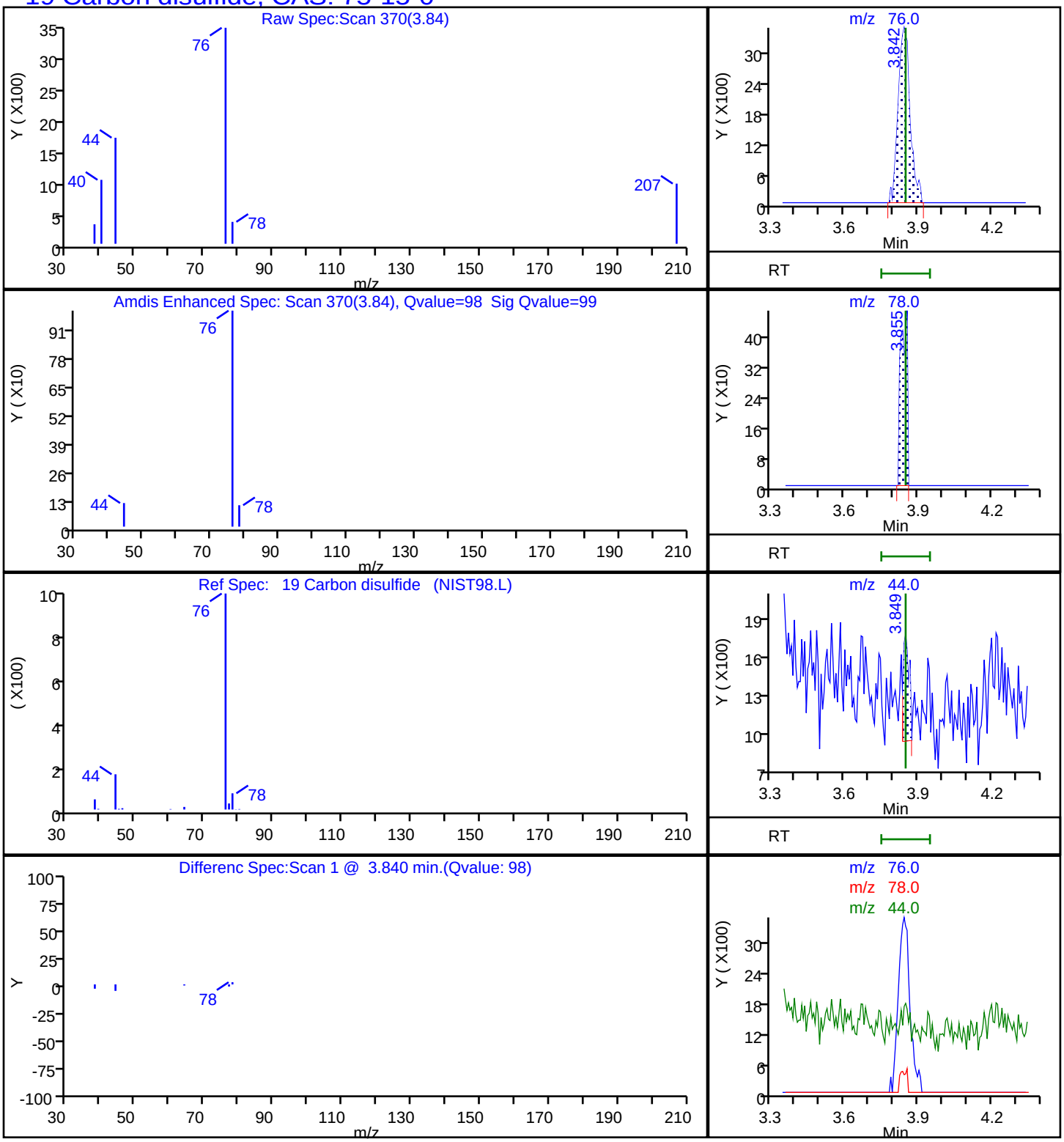
15 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X24.D				
Injection Date:	03-Dec-2021 17:35:30	Instrument ID:	19930		
Lims ID:	410-64660-A-10	Lab Sample ID:	410-64660-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

19 Carbon disulfide, CAS: 75-15-0



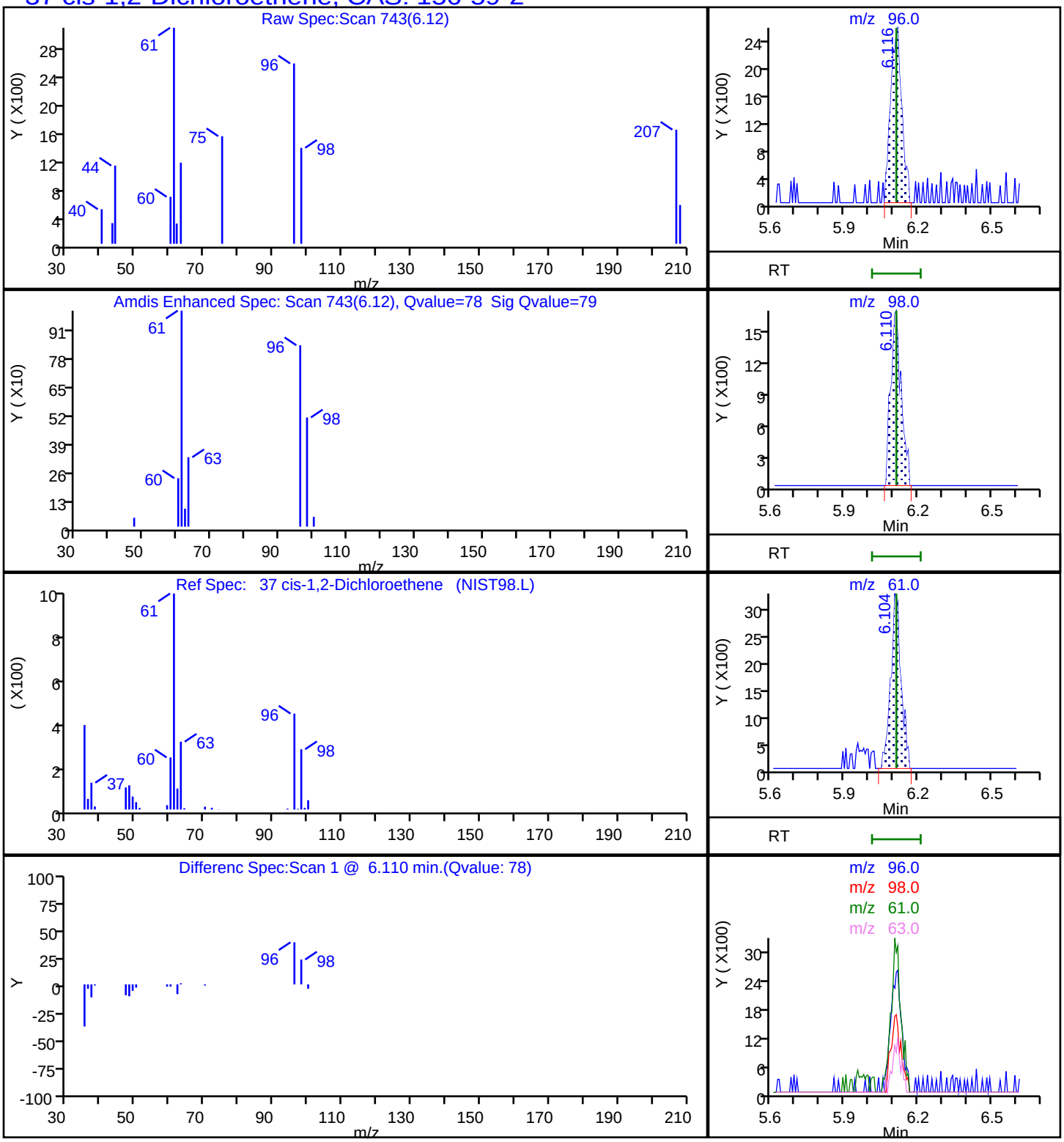
Report Date: 03-Dec-2021 20:36:49 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X24.D

Injection Date:	03-Dec-2021 17:35:30	Instrument ID:	19930		
Lims ID:	410-64660-A-10	Lab Sample ID:	410-64660-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

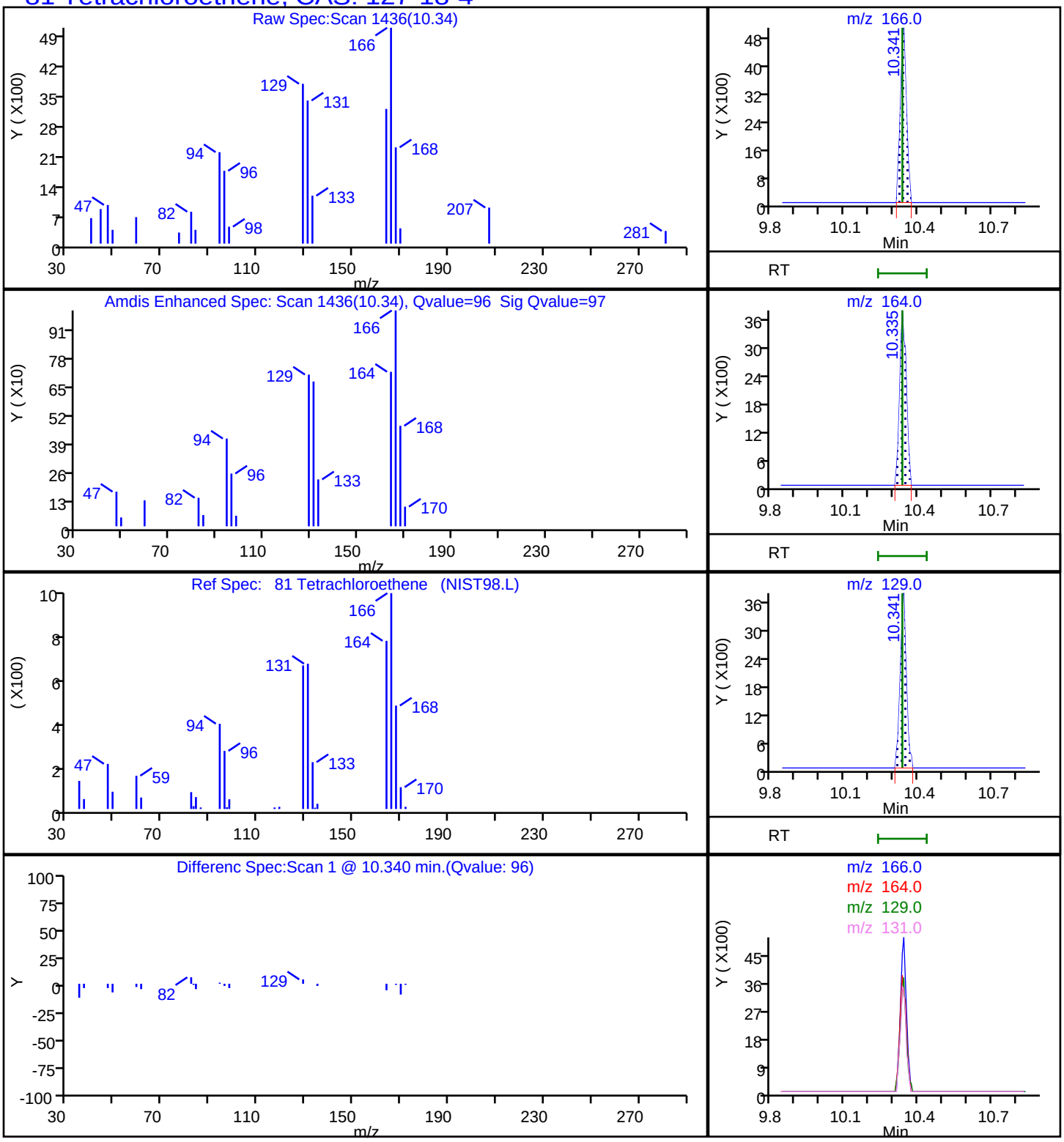
37 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X24.D				
Injection Date:	03-Dec-2021 17:35:30	Instrument ID:	19930		
Lims ID:	410-64660-A-10	Lab Sample ID:	410-64660-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

81 Tetrachloroethene, CAS: 127-18-4



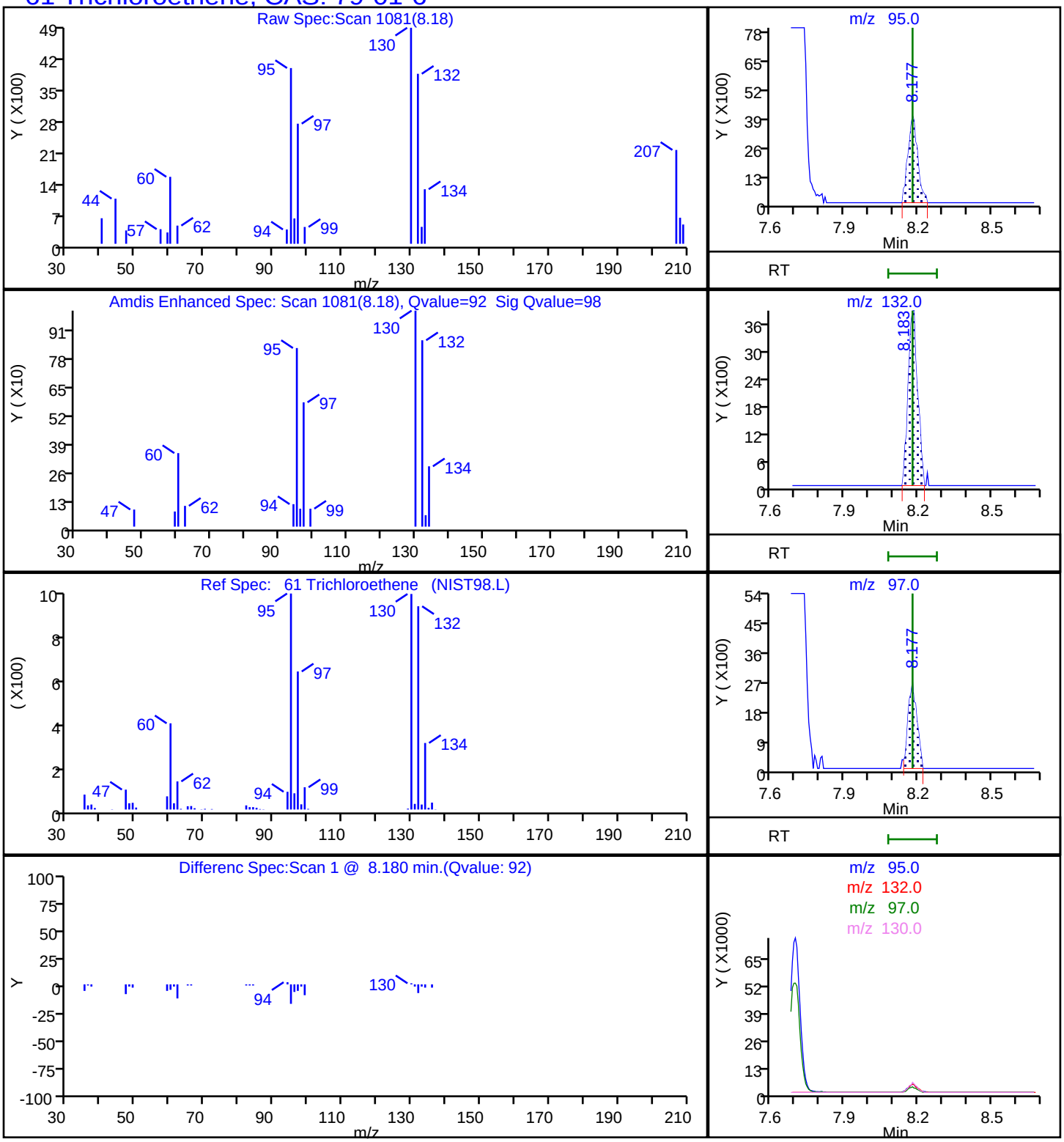
Report Date: 03-Dec-2021 20:36:49 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X24.D

Injection Date:	03-Dec-2021 17:35:30	Instrument ID:	19930		
Lims ID:	410-64660-A-10	Lab Sample ID:	410-64660-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

61 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-28-0/1-0 Lab Sample ID: 410-64660-11

Matrix: Water Lab File ID: ID03X25.D

Analysis Method: 8260D Date Collected: 11/23/2021 12:05

Sample wt/vol: 25(mL) Date Analyzed: 12/03/2021 17:56

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201082 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND		5.0	0.60
591-78-6	2-Hexanone	ND		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70
67-64-1	Acetone	1.5	J	5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	0.10	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.11	J	0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	0.19	J	0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	0.13	J	0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-28-0/1-0 Lab Sample ID: 410-64660-11

Matrix: Water Lab File ID: ID03X25.D

Analysis Method: 8260D Date Collected: 11/23/2021 12:05

Sample wt/vol: 25(mL) Date Analyzed: 12/03/2021 17:56

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201082 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X25.D
Lims ID: 410-64660-A-11
Client ID: HD-COD-SW-28-0/1-0
Sample Type: Client
Inject. Date: 03-Dec-2021 17:56:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045448-026
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 03-Dec-2021 20:36:37 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1678

First Level Reviewer: beckerk Date: 03-Dec-2021 20:34:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.148	2.172	-0.024	89	3149	0.0371	
5 Vinyl chloride	62		2.288				ND	
7 Bromomethane	94		2.617				ND	
8 Chloroethane	64		2.690				ND	
14 1,1-Dichloroethene	96		3.544				ND	
15 Acetone	43	3.574	3.568	0.006	98	15072	1.53	
19 Carbon disulfide	76	3.836	3.849	-0.013	51	6629	0.0423	
23 Methylene Chloride	84		4.202				ND	7
* 24 t-Butyl alcohol-d10 (IS)	65	4.208	4.208	0.000	18	177511	50.0	
27 Methyl tert-butyl ether	73		4.605				ND	
28 trans-1,2-Dichloroethene	96		4.623				ND	
31 1,1-Dichloroethane	63		5.281				ND	
36 2-Butanone (MEK)	43		6.068				ND	7
37 cis-1,2-Dichloroethene	96	6.110	6.110	0.000	76	7817	0.1088	
43 Chlorobromomethane	128		6.446				ND	
45 Chloroform	83	6.592	6.592	0.000	91	12169	0.1049	
$ 46 Dibromofluoromethane (Surr)	113	6.805	6.805	0.000	94	607571	10.1	
47 1,1,1-Trichloroethane	97		6.824				ND	
50 Carbon tetrachloride	117		7.037				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.256	7.257	-0.001	83	124574	10.4	
54 Benzene	78		7.293				ND	7
56 1,2-Dichloroethane	62		7.366				ND	
* 58 Fluorobenzene (IS)	96	7.695	7.695	0.000	99	2380035	10.0	
61 Trichloroethene	95	8.177	8.177	0.000	97	9587	0.1333	
63 1,2-Dichloropropane	63		8.506				ND	
68 Dichlorobromomethane	83		8.854				ND	7
73 cis-1,3-Dichloropropene	75		9.402				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.567				ND	7
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2500926	10.0	
76 Toluene	92	9.786	9.787	-0.001	98	11530	0.0624	
78 trans-1,3-Dichloropropene	75		10.043				ND	
80 1,1,2-Trichloroethane	97		10.250				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
81 Tetrachloroethene	166	10.335	10.335	0.000	96	17025	0.1934	
83 2-Hexanone	43		10.457				ND	
85 Chlorodibromomethane	129		10.628				ND	
86 Ethylene Dibromide	107		10.738				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	1927788	10.0	
90 Chlorobenzene	112		11.195				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.274				ND	
92 Ethylbenzene	91		11.280				ND	7
93 m-Xylene & p-Xylene	106	11.396	11.390	0.006	98	7049	0.0501	
94 o-Xylene	106		11.719				ND	7
95 Styrene	104		11.737				ND	
96 Bromoform	173		11.896				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	93	946056	9.94	
101 1,1,2,2-Tetrachloroethane	83		12.262				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.042	13.042	0.000	94	1119409	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00002 Amount Added: 5.00 Units: uL Run Reagent

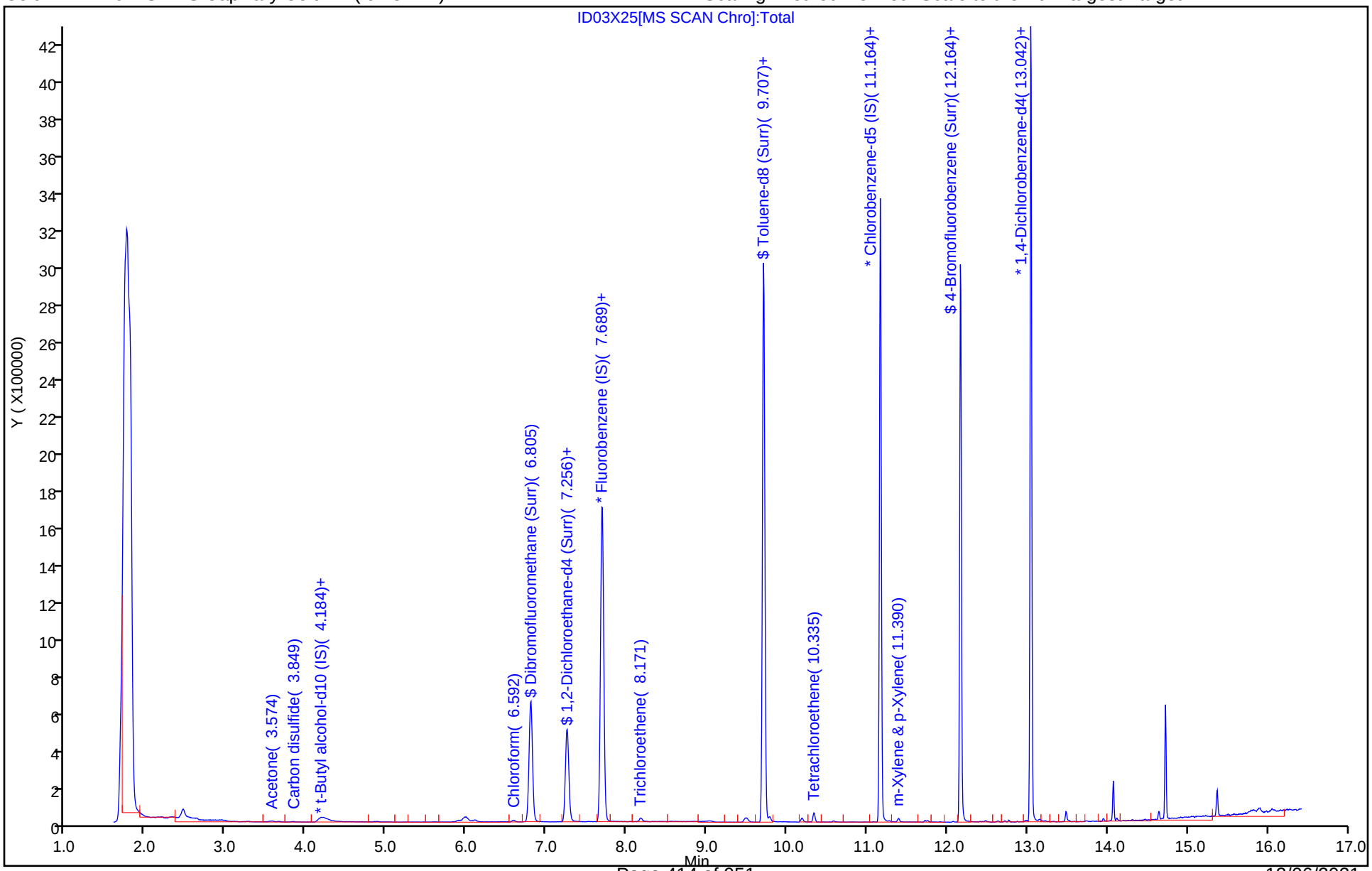
Report Date: 03-Dec-2021 20:36:50 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X25.D

Injection Date:	03-Dec-2021 17:56:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	410-64660-A-11	Lab Sample ID:	410-64660-11	Worklist Smp#:	26
Client ID:	HD-COD-SW-28-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X25.D				
Lims ID:	410-64660-A-11				
Client ID:	HD-COD-SW-28-0/1-0				
Sample Type:	Client				
Inject. Date:	03-Dec-2021 17:56:30	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0045448-026				
Operator ID:	KNK41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	03-Dec-2021 20:36:37	Calib Date:	24-Aug-2021 02:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1678				

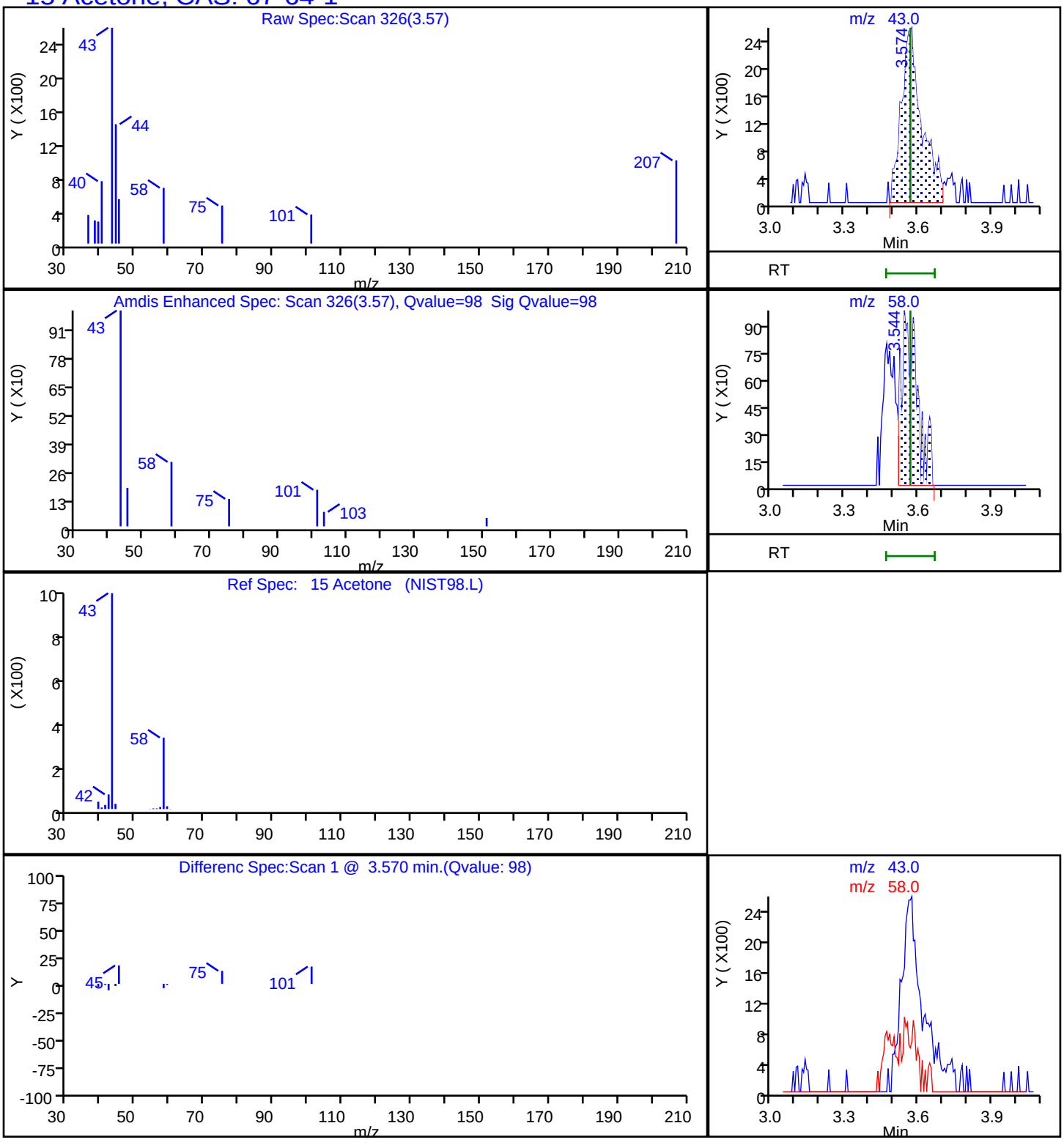
First Level Reviewer: beckerk Date: 03-Dec-2021 20:34:32

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.1	101.34
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	103.86
$ 75 Toluene-d8 (Surr)	10.0	10.0	100.39
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.94	99.36

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X25.D				
Injection Date:	03-Dec-2021 17:56:30	Instrument ID:	19930		
Lims ID:	410-64660-A-11	Lab Sample ID:	410-64660-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

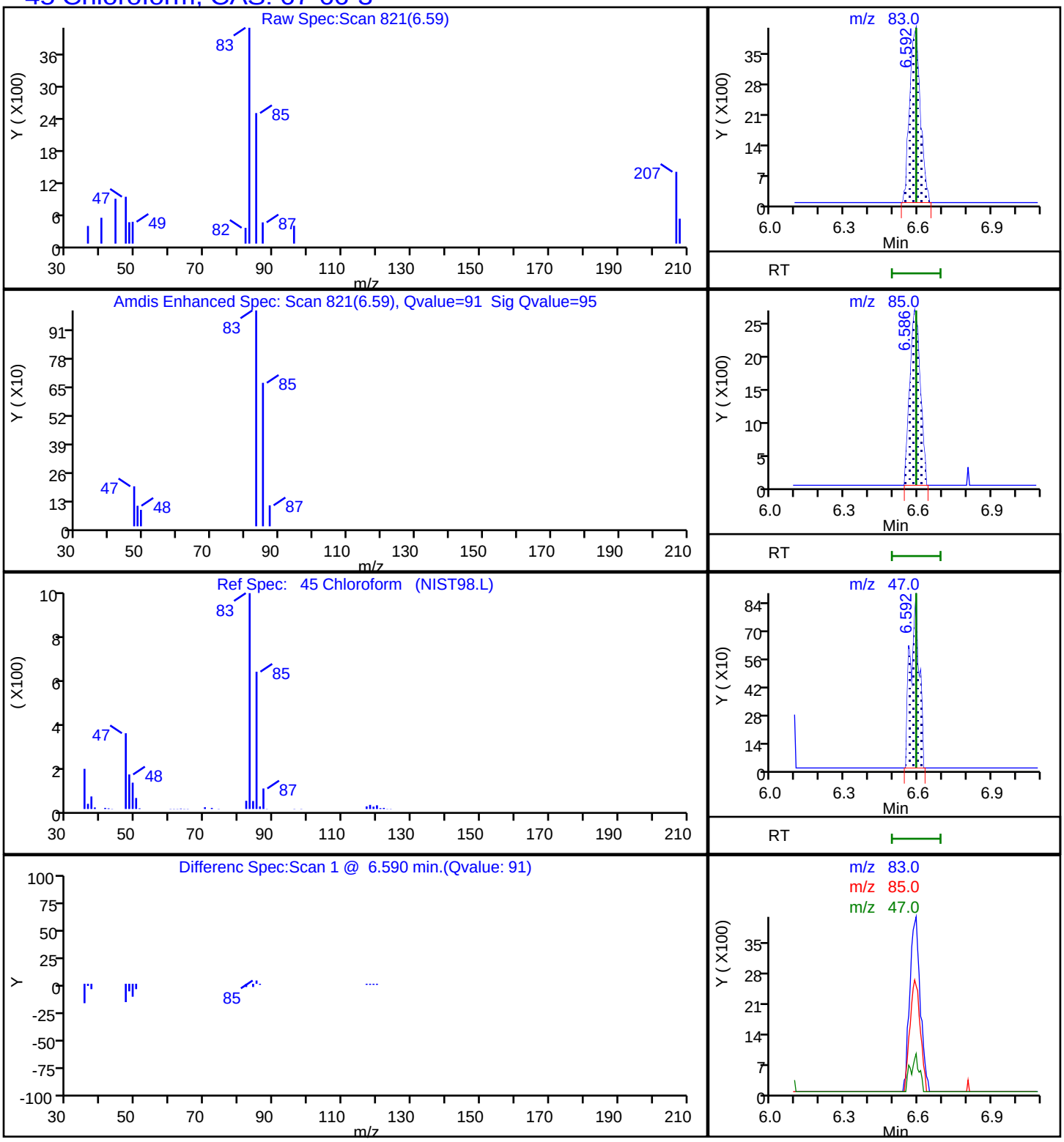
15 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X25.D				
Injection Date:	03-Dec-2021 17:56:30	Instrument ID:	19930		
Lims ID:	410-64660-A-11	Lab Sample ID:	410-64660-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

45 Chloroform, CAS: 67-66-3



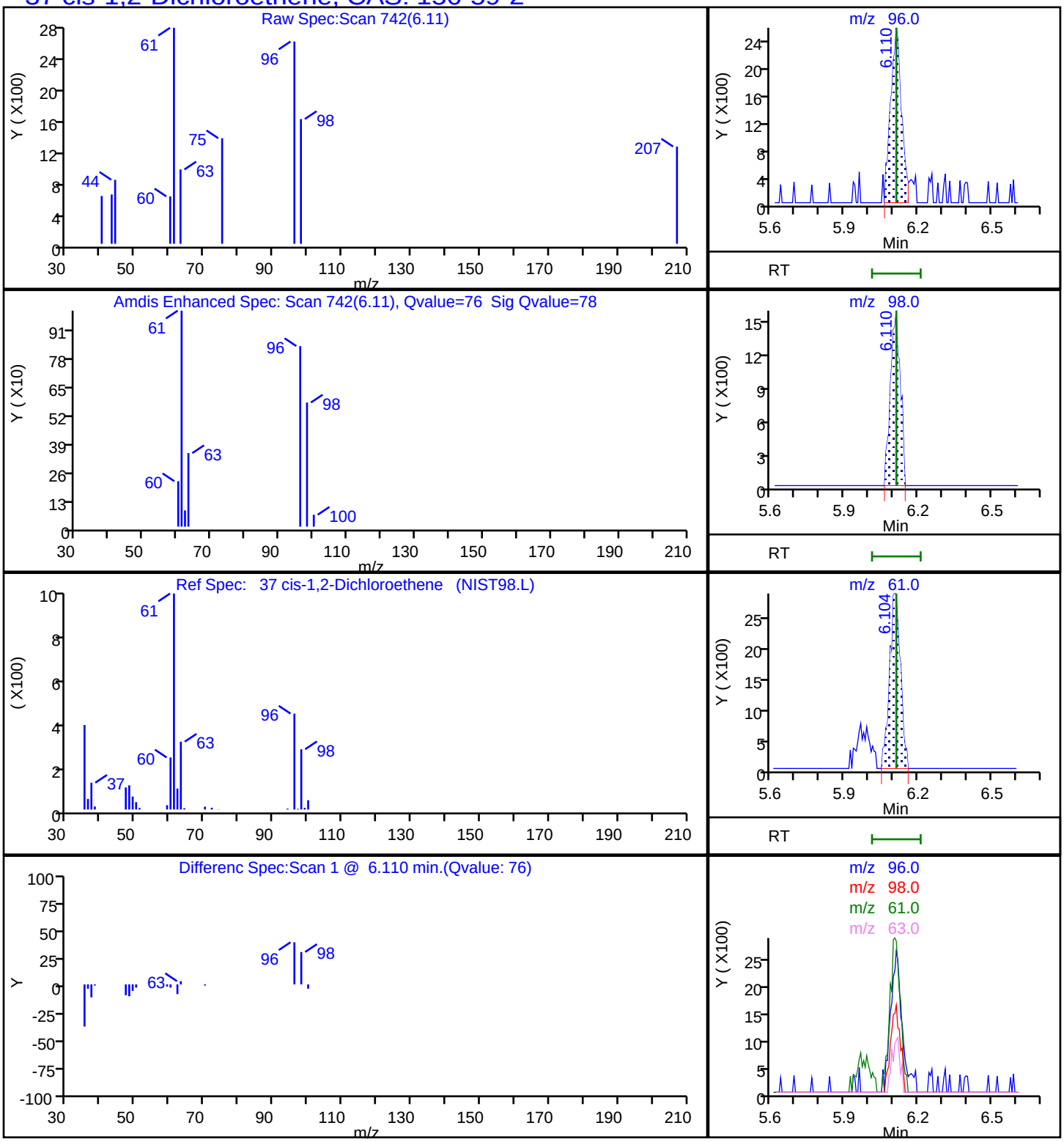
Report Date: 03-Dec-2021 20:36:50 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X25.D

Injection Date:	03-Dec-2021 17:56:30	Instrument ID:	19930		
Lims ID:	410-64660-A-11	Lab Sample ID:	410-64660-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

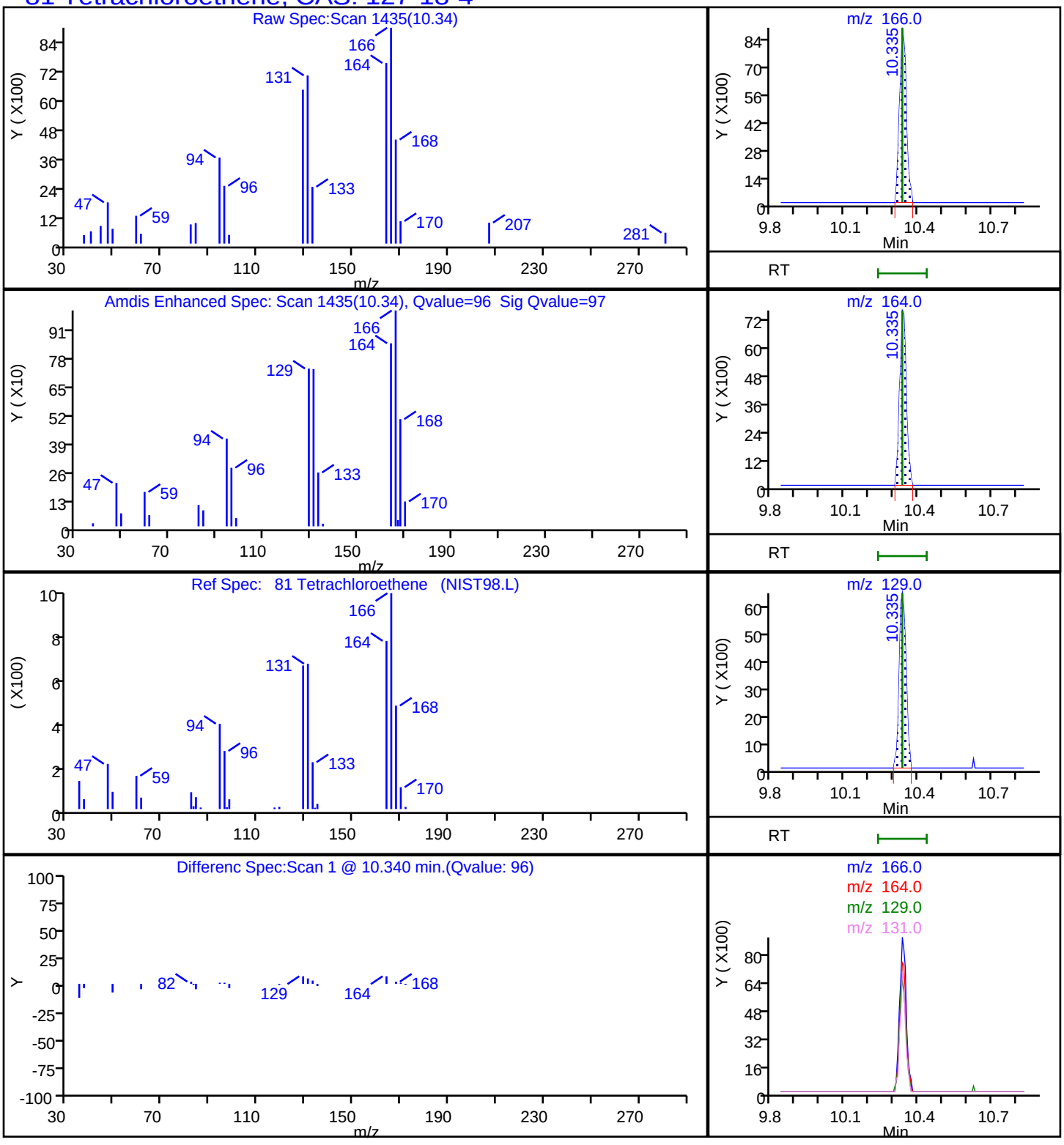
37 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X25.D				
Injection Date:	03-Dec-2021 17:56:30	Instrument ID:	19930		
Lims ID:	410-64660-A-11	Lab Sample ID:	410-64660-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

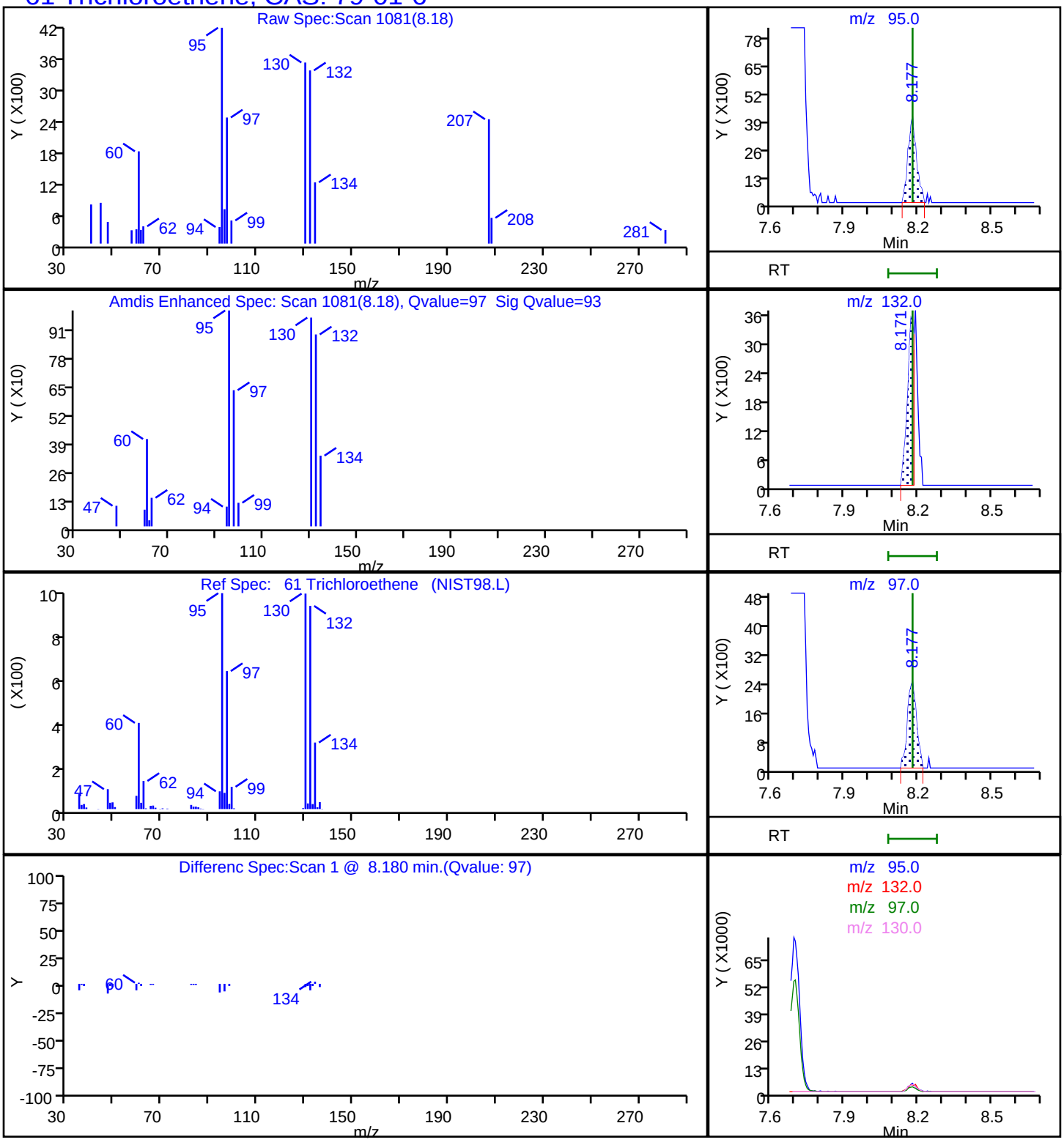
81 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X25.D				
Injection Date:	03-Dec-2021 17:56:30	Instrument ID:	19930		
Lims ID:	410-64660-A-11	Lab Sample ID:	410-64660-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

61 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-29-0/1-0 Lab Sample ID: 410-64660-12

Matrix: Water Lab File ID: ID03X26.D

Analysis Method: 8260D Date Collected: 11/23/2021 08:40

Sample wt/vol: 25(mL) Date Analyzed: 12/03/2021 18:17

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201082 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND		5.0	0.60
591-78-6	2-Hexanone	ND		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70
67-64-1	Acetone	1.2	J	5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	0.060	J	0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.15	J	0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	0.33	J	0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	0.19	J	0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-29-0/1-0 Lab Sample ID: 410-64660-12

Matrix: Water Lab File ID: ID03X26.D

Analysis Method: 8260D Date Collected: 11/23/2021 08:40

Sample wt/vol: 25(mL) Date Analyzed: 12/03/2021 18:17

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201082 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X26.D
Lims ID: 410-64660-A-12
Client ID: HD-COD-SW-29-0/1-0
Sample Type: Client
Inject. Date: 03-Dec-2021 18:17:30 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045448-027
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 03-Dec-2021 20:36:37 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1678

First Level Reviewer: beckerk Date: 03-Dec-2021 20:34:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.154	2.172	-0.018	96	5096	0.0600	
5 Vinyl chloride	62		2.288				ND	
7 Bromomethane	94		2.617				ND	
8 Chloroethane	64		2.690				ND	
14 1,1-Dichloroethene	96		3.544				ND	
15 Acetone	43	3.568	3.568	0.000	69	12786	1.20	M
19 Carbon disulfide	76	3.836	3.849	-0.013	62	5221	0.0333	
23 Methylene Chloride	84		4.202				ND	
* 24 t-Butyl alcohol-d10 (IS)	65	4.233	4.208	0.025	19	192410	50.0	
27 Methyl tert-butyl ether	73		4.605				ND	7
28 trans-1,2-Dichloroethene	96		4.623				ND	
31 1,1-Dichloroethane	63		5.281				ND	
36 2-Butanone (MEK)	43		6.068				ND	7
37 cis-1,2-Dichloroethene	96	6.104	6.110	-0.006	76	10927	0.1519	
43 Chlorobromomethane	128		6.446				ND	
45 Chloroform	83	6.586	6.592	-0.006	84	6227	0.0536	
$ 46 Dibromofluoromethane (Surr)	113	6.805	6.805	0.000	94	611744	10.2	
47 1,1,1-Trichloroethane	97		6.824				ND	
50 Carbon tetrachloride	117		7.037				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.256	7.257	-0.001	83	124779	10.4	
54 Benzene	78		7.293				ND	7
56 1,2-Dichloroethane	62		7.366				ND	
* 58 Fluorobenzene (IS)	96	7.695	7.695	0.000	99	2382127	10.0	
61 Trichloroethene	95	8.177	8.177	0.000	98	13779	0.1914	
63 1,2-Dichloropropane	63		8.506				ND	
68 Dichlorobromomethane	83		8.854				ND	
73 cis-1,3-Dichloropropene	75		9.402				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.567				ND	7
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2495386	10.0	
76 Toluene	92	9.786	9.787	-0.001	97	7681	0.0415	
78 trans-1,3-Dichloropropene	75		10.043				ND	
80 1,1,2-Trichloroethane	97		10.250				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
81 Tetrachloroethene	166	10.335	10.335	0.000	97	28782	0.3267	
83 2-Hexanone	43		10.457				ND	
85 Chlorodibromomethane	129		10.628				ND	
86 Ethylene Dibromide	107		10.738				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	1928990	10.0	
90 Chlorobenzene	112		11.195				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.274				ND	
92 Ethylbenzene	91		11.280				ND	7
93 m-Xylene & p-Xylene	106		11.390				ND	7
94 o-Xylene	106		11.719				ND	7
95 Styrene	104		11.737				ND	7
96 Bromoform	173		11.896				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	93	944313	9.91	
101 1,1,2,2-Tetrachloroethane	83		12.262				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.048	13.042	0.006	94	1119382	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_LLcentISS_00002 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 03-Dec-2021 20:36:51 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X26.D

Injection Date:	03-Dec-2021 18:17:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	410-64660-A-12	Lab Sample ID:	410-64660-12	Worklist Smp#:	27
Client ID:	HD-COD-SW-29-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X26.D				
Lims ID:	410-64660-A-12				
Client ID:	HD-COD-SW-29-0/1-0				
Sample Type:	Client				
Inject. Date:	03-Dec-2021 18:17:30	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0045448-027				
Operator ID:	KNK41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	03-Dec-2021 20:36:37	Calib Date:	24-Aug-2021 02:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1678				

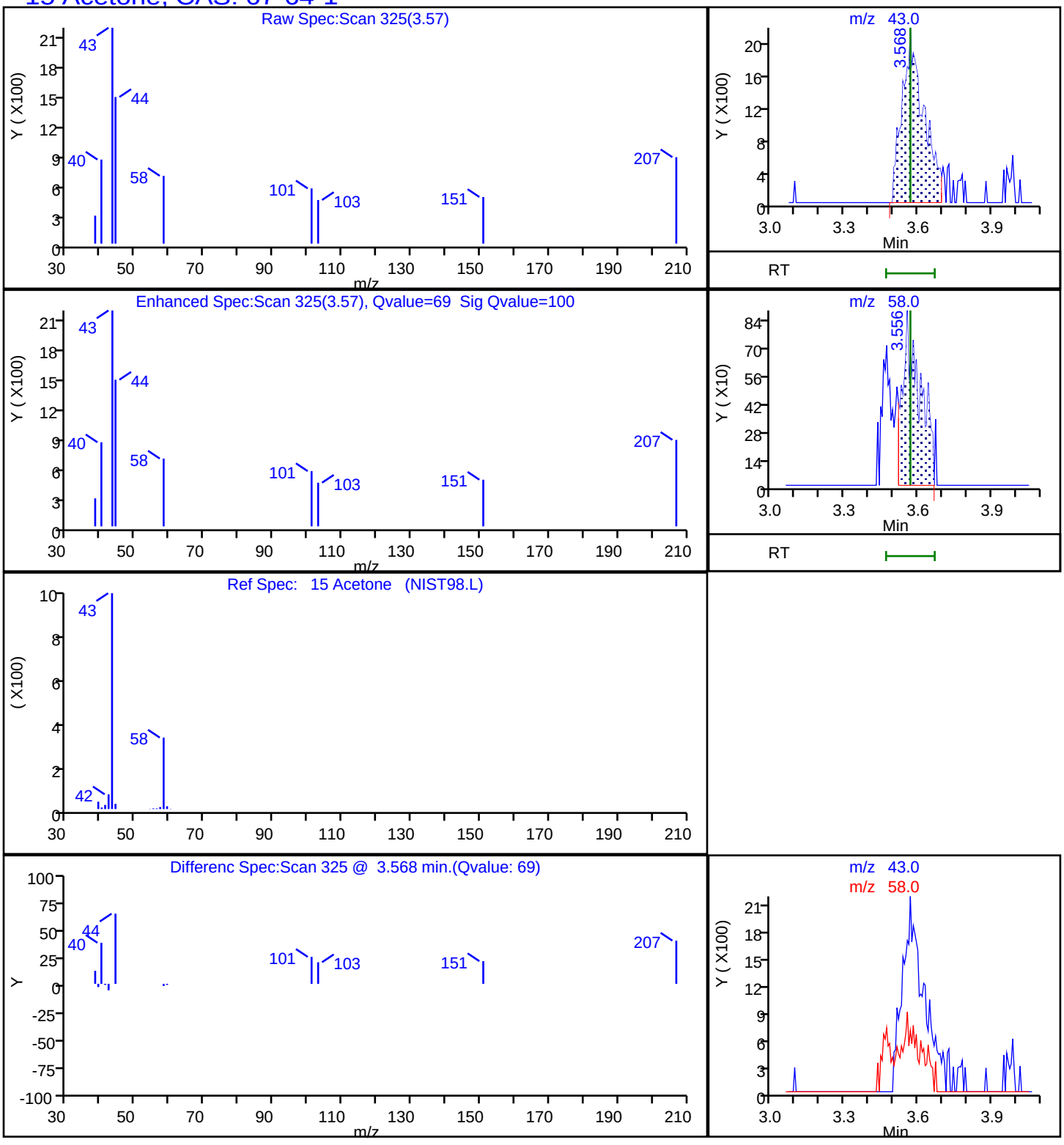
First Level Reviewer: beckerk Date: 03-Dec-2021 20:34:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.2	101.94
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	103.94
$ 75 Toluene-d8 (Surr)	10.0	10.0	100.10
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.91	99.12

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X26.D				
Injection Date:	03-Dec-2021 18:17:30	Instrument ID:	19930		
Lims ID:	410-64660-A-12	Lab Sample ID:	410-64660-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

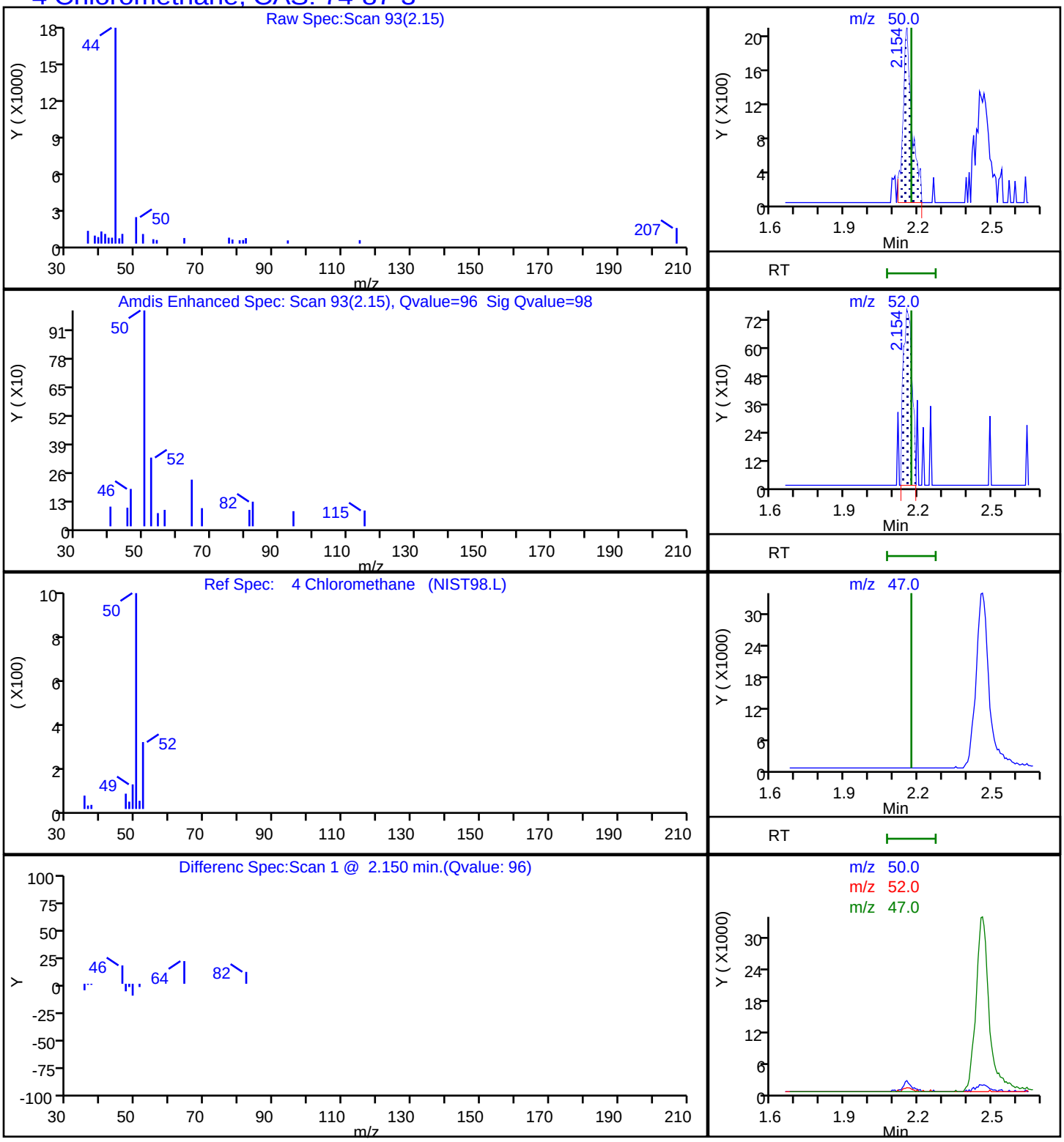
15 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X26.D				
Injection Date:	03-Dec-2021 18:17:30	Instrument ID:	19930		
Lims ID:	410-64660-A-12	Lab Sample ID:	410-64660-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

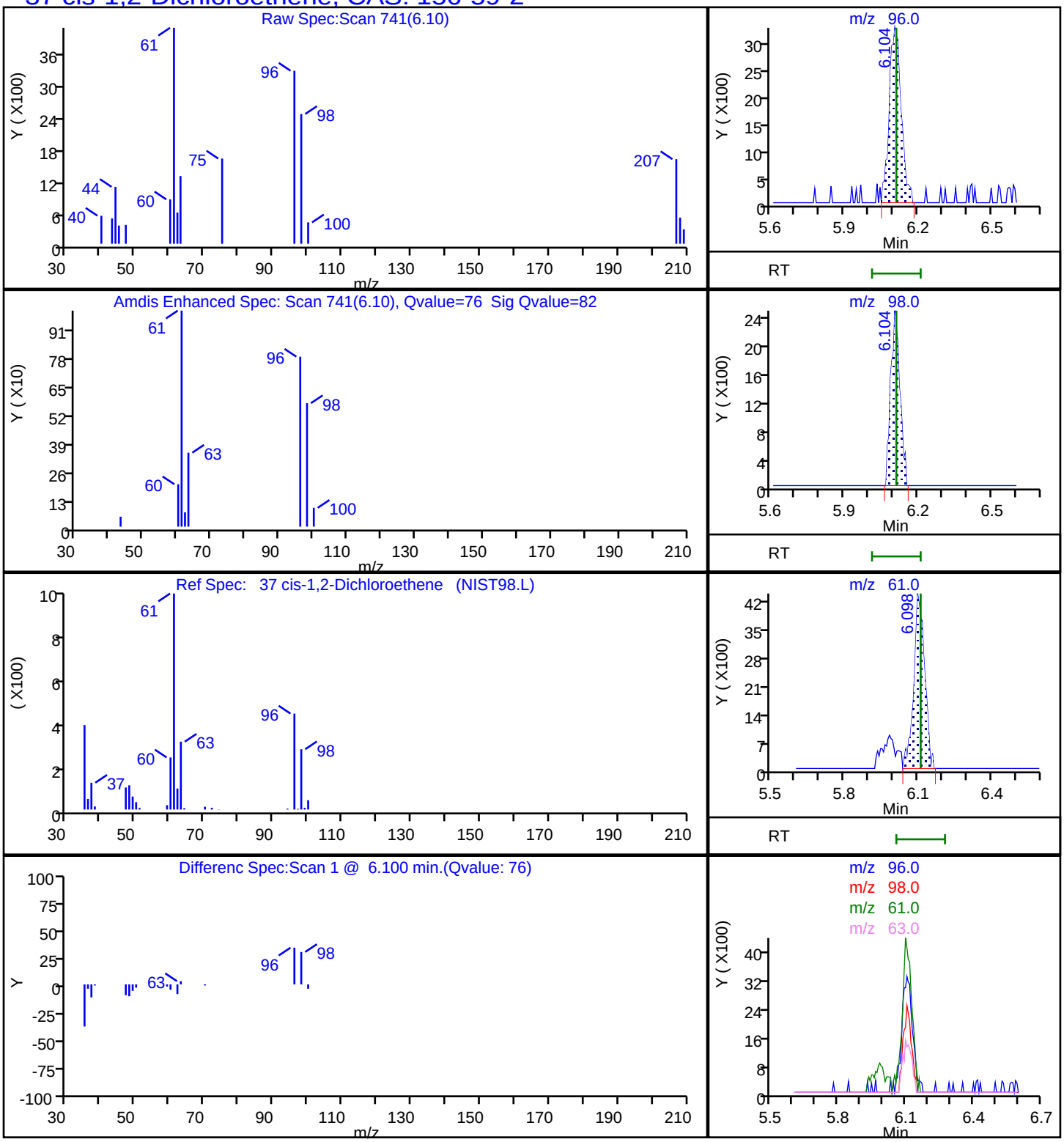
4 Chloromethane, CAS: 74-87-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X26.D				
Injection Date:	03-Dec-2021 18:17:30	Instrument ID:	19930		
Lims ID:	410-64660-A-12	Lab Sample ID:	410-64660-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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



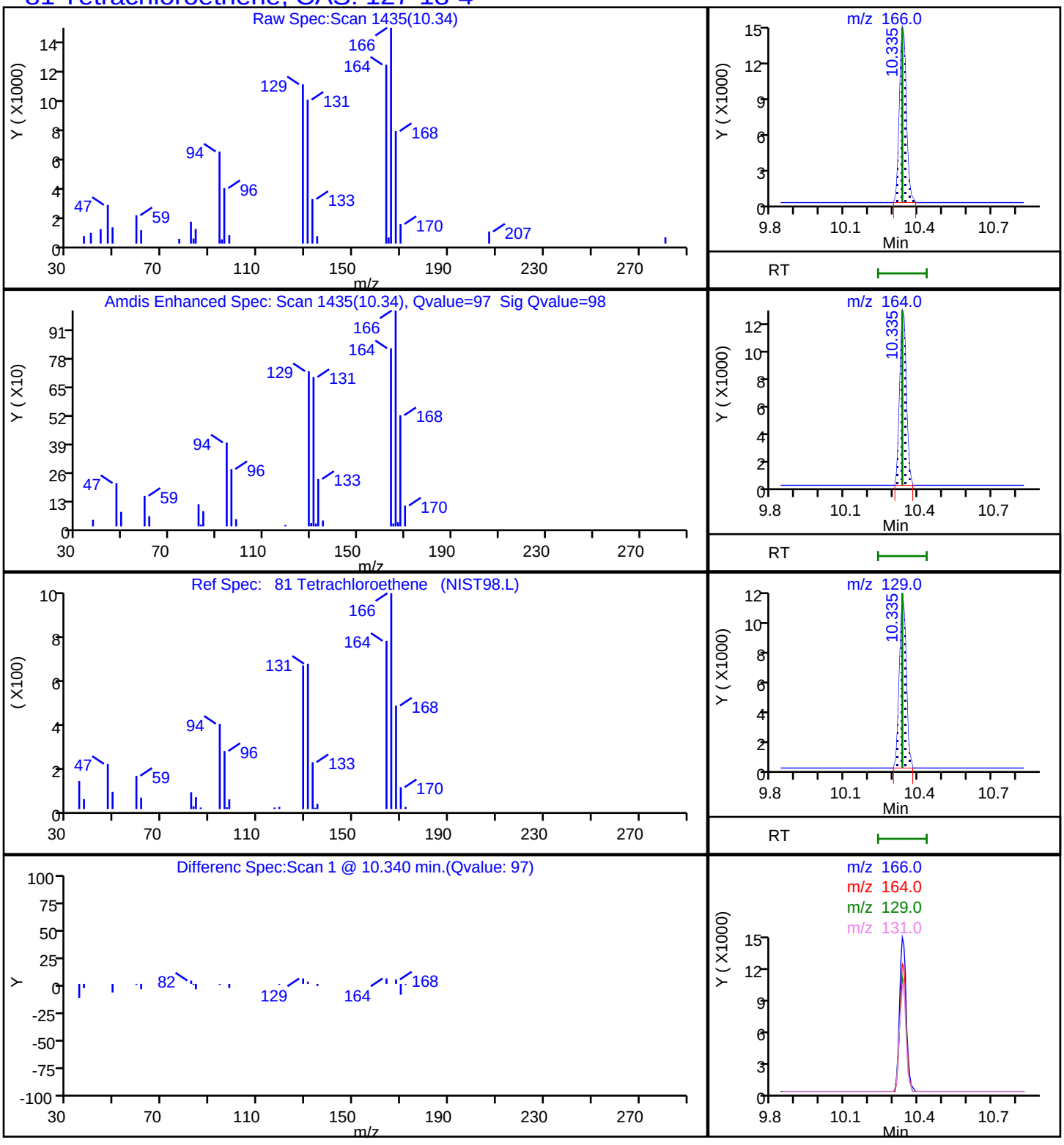
Report Date: 03-Dec-2021 20:36:51 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X26.D

Injection Date:	03-Dec-2021 18:17:30	Instrument ID:	19930		
Lims ID:	410-64660-A-12	Lab Sample ID:	410-64660-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

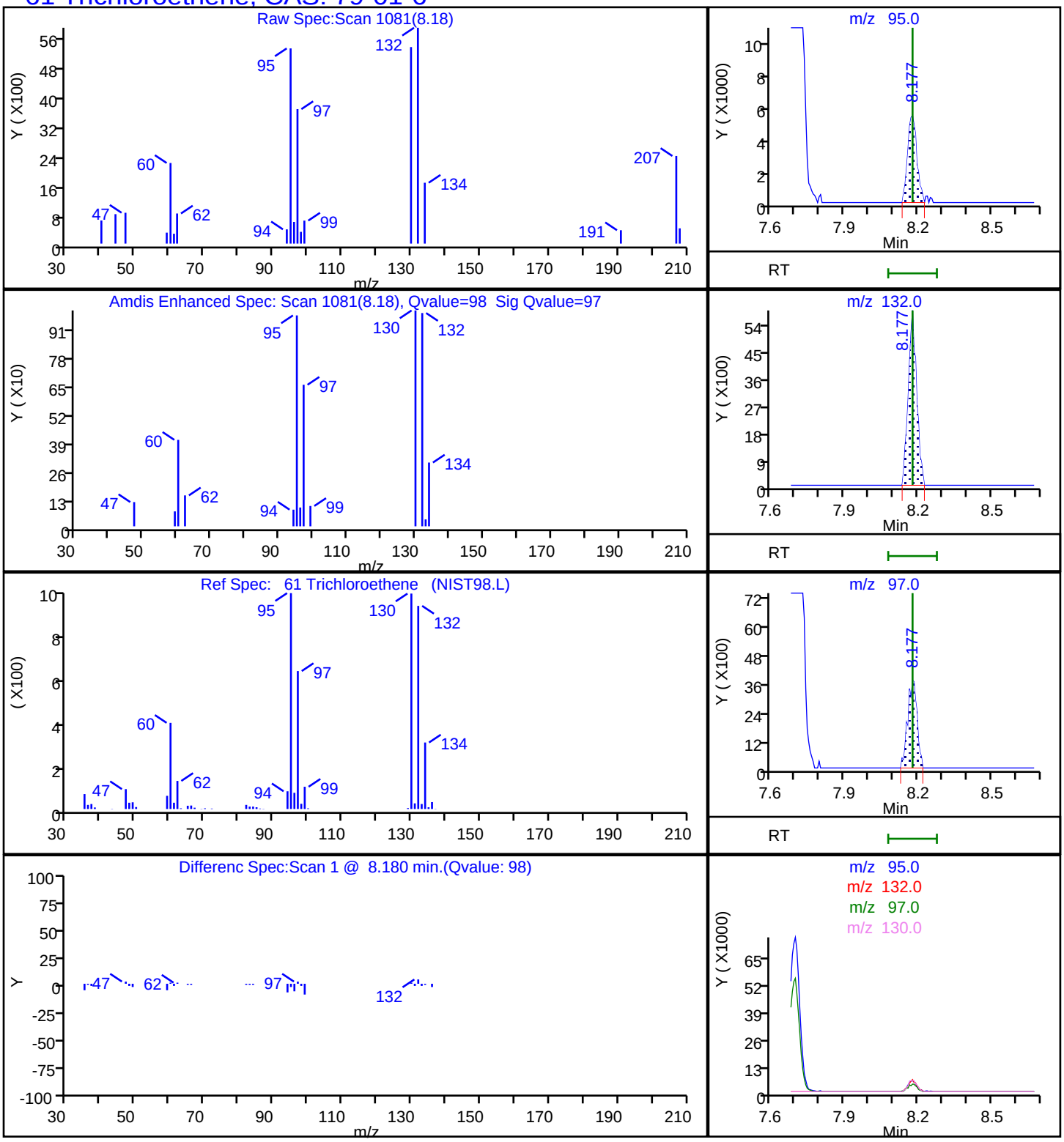
81 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X26.D				
Injection Date:	03-Dec-2021 18:17:30	Instrument ID:	19930		
Lims ID:	410-64660-A-12	Lab Sample ID:	410-64660-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

61 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

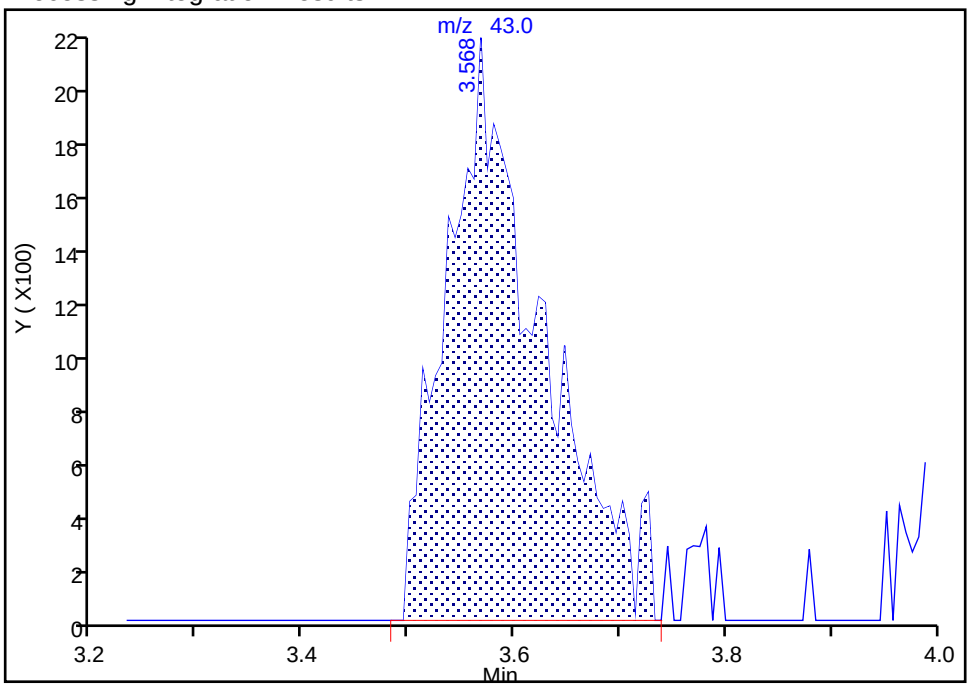
Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X26.D				
Injection Date:	03-Dec-2021 18:17:30	Instrument ID:	19930		
Lims ID:	410-64660-A-12	Lab Sample ID:	410-64660-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	KNK41612	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

15 Acetone, CAS: 67-64-1

Signal: 1

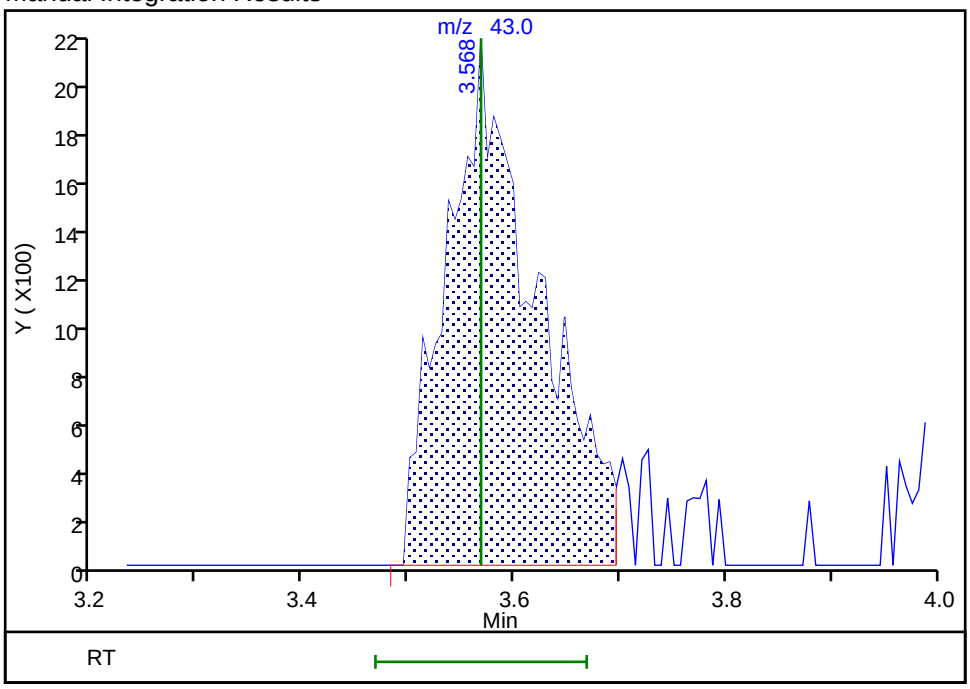
Processing Integration Results

RT: 3.57
Area: 13395
Amount: 1.253184
Amount Units: ug/l



Manual Integration Results

RT: 3.57
Area: 12786
Amount: 1.196208
Amount Units: ug/l



Reviewer: beckerk, 03-Dec-2021 20:34:47
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1 Lab Sample ID: 410-64660-13

Matrix: Water Lab File ID: ID03X27.D

Analysis Method: 8260D Date Collected: 11/23/2021 12:00

Sample wt/vol: 25(mL) Date Analyzed: 12/03/2021 18:38

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201082 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	6.1		0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	0.90		0.50	0.070
75-35-4	1,1-Dichloroethene	0.55		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND		5.0	0.60
591-78-6	2-Hexanone	ND		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70
67-64-1	Acetone	ND		5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	0.30	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	4.6		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	9.2		0.50	0.060
75-01-4	Vinyl chloride	ND		0.50	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1 Lab Sample ID: 410-64660-13

Matrix: Water Lab File ID: ID03X27.D

Analysis Method: 8260D Date Collected: 11/23/2021 12:00

Sample wt/vol: 25(mL) Date Analyzed: 12/03/2021 18:38

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201082 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X27.D
Lims ID: 410-64660-A-13
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 03-Dec-2021 18:38:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045448-028
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 03-Dec-2021 20:36:37 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1678

First Level Reviewer: beckerk Date: 03-Dec-2021 20:36:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.172				ND	
5 Vinyl chloride	62		2.288				ND	7
7 Bromomethane	94		2.617				ND	
8 Chloroethane	64		2.690				ND	
14 1,1-Dichloroethene	96	3.538	3.544	-0.006	97	31423	0.5464	
15 Acetone	43		3.568				ND	U
19 Carbon disulfide	76		3.849				ND	
23 Methylene Chloride	84		4.202				ND	
* 24 t-Butyl alcohol-d10 (IS)	65	4.184	4.208	-0.024	24	189408	50.0	
27 Methyl tert-butyl ether	73	4.604	4.605	-0.001	89	7202	0.0439	M
28 trans-1,2-Dichloroethene	96		4.623				ND	
31 1,1-Dichloroethane	63	5.275	5.281	-0.006	96	106590	0.8992	
36 2-Butanone (MEK)	43		6.068				ND	
37 cis-1,2-Dichloroethene	96	6.104	6.110	-0.006	78	331198	4.55	
43 Chlorobromomethane	128		6.446				ND	
45 Chloroform	83	6.586	6.592	-0.006	92	34971	0.2979	
$ 46 Dibromofluoromethane (Surr)	113	6.805	6.805	0.000	94	612573	10.1	
47 1,1,1-Trichloroethane	97	6.824	6.824	0.000	98	665650	6.10	
50 Carbon tetrachloride	117		7.037				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.250	7.257	-0.007	83	124549	10.3	
54 Benzene	78		7.293				ND	7
56 1,2-Dichloroethane	62		7.366				ND	
* 58 Fluorobenzene (IS)	96	7.695	7.695	0.000	99	2409629	10.0	
61 Trichloroethene	95	8.177	8.177	0.000	97	669469	9.19	
63 1,2-Dichloropropane	63		8.506				ND	
68 Dichlorobromomethane	83		8.854				ND	
73 cis-1,3-Dichloropropene	75		9.402				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.567				ND	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2520390	10.0	
76 Toluene	92	9.786	9.787	-0.001	99	6291	0.0336	
78 trans-1,3-Dichloropropene	75		10.043				ND	
80 1,1,2-Trichloroethane	97	10.250	10.250	0.000	70	1297	0.0260	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
81 Tetrachloroethene	166	10.335	10.335	0.000	98	6844390	76.8	E
83 2-Hexanone	43		10.457				ND	
85 Chlorodibromomethane	129		10.628				ND	
86 Ethylene Dibromide	107		10.738				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	1951004	10.0	
90 Chlorobenzene	112		11.195				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.274				ND	
92 Ethylbenzene	91		11.280				ND	7
93 m-Xylene & p-Xylene	106		11.390				ND	7
94 o-Xylene	106		11.719				ND	7
95 Styrene	104		11.737				ND	7
96 Bromoform	173		11.896				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	93	962878	10.0	
101 1,1,2,2-Tetrachloroethane	83		12.262				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.048	13.042	0.006	94	1134937	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_LLcentISS_00002 Amount Added: 5.00 Units: uL Run Reagent

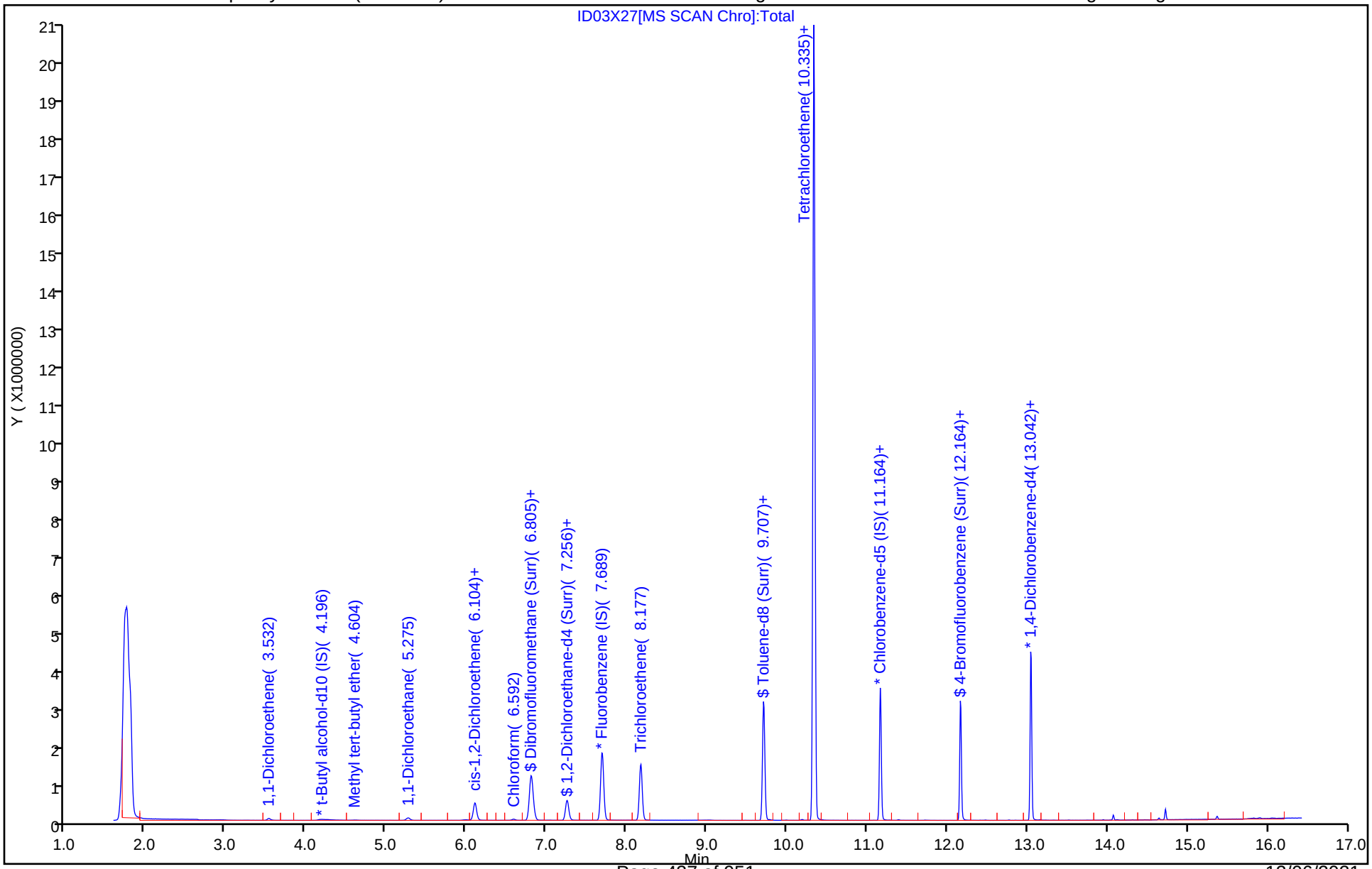
Report Date: 03-Dec-2021 20:36:52 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X27.D

Injection Date:	03-Dec-2021 18:38:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	410-64660-A-13	Lab Sample ID:	410-64660-13	Worklist Smp#:	28
Client ID:	HD-QC1-0/1-1				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X27.D
Lims ID: 410-64660-A-13
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 03-Dec-2021 18:38:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045448-028
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 03-Dec-2021 20:36:37 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1678

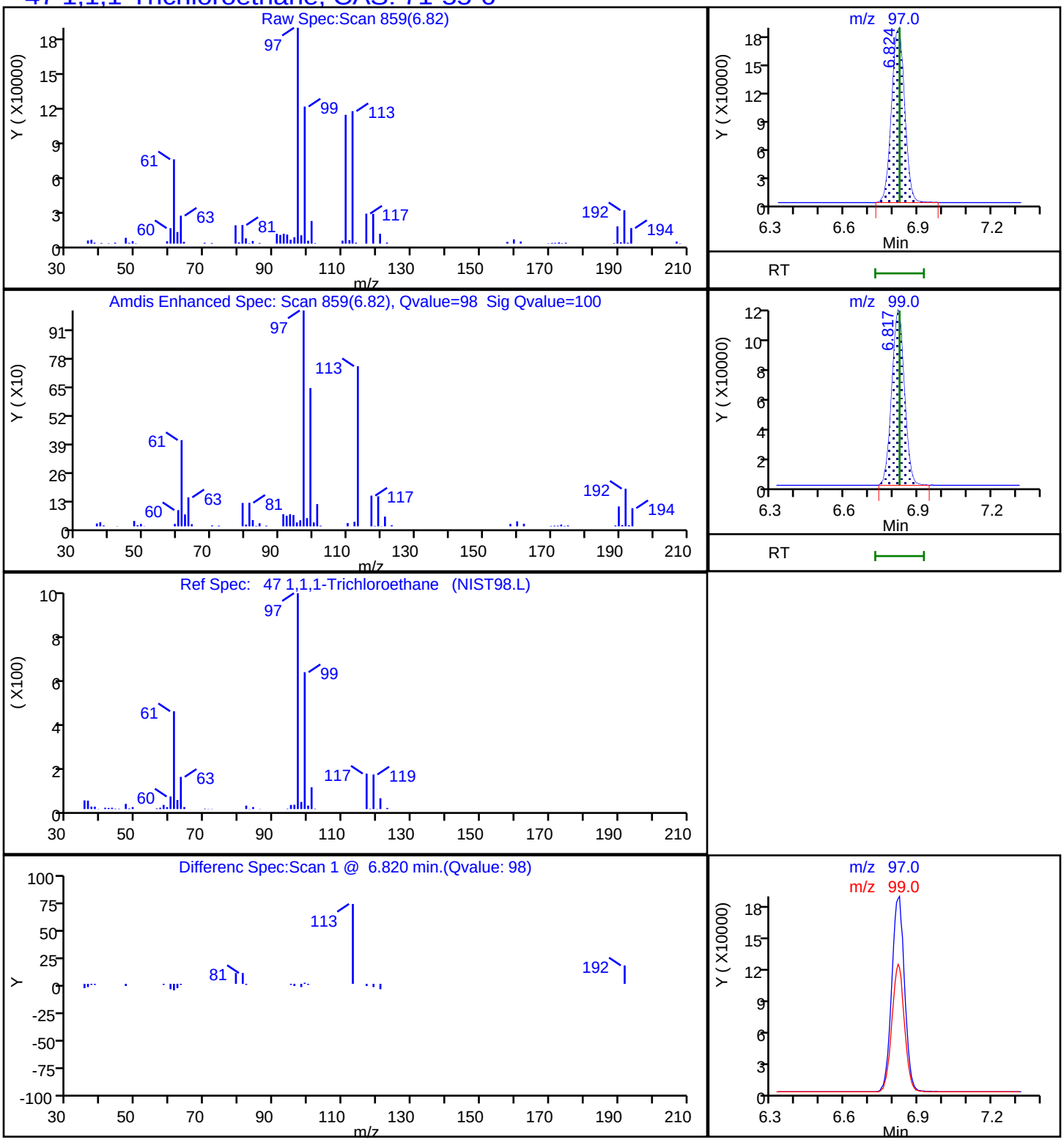
First Level Reviewer: beckerk Date: 03-Dec-2021 20:36:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.1	100.92
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	102.57
$ 75 Toluene-d8 (Surr)	10.0	10.0	99.96
$ 100 4-Bromofluorobenzene (Surr)	10.0	10.0	99.92

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X27.D				
Injection Date:	03-Dec-2021 18:38:30	Instrument ID:	19930		
Lims ID:	410-64660-A-13	Lab Sample ID:	410-64660-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	KNK41612	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

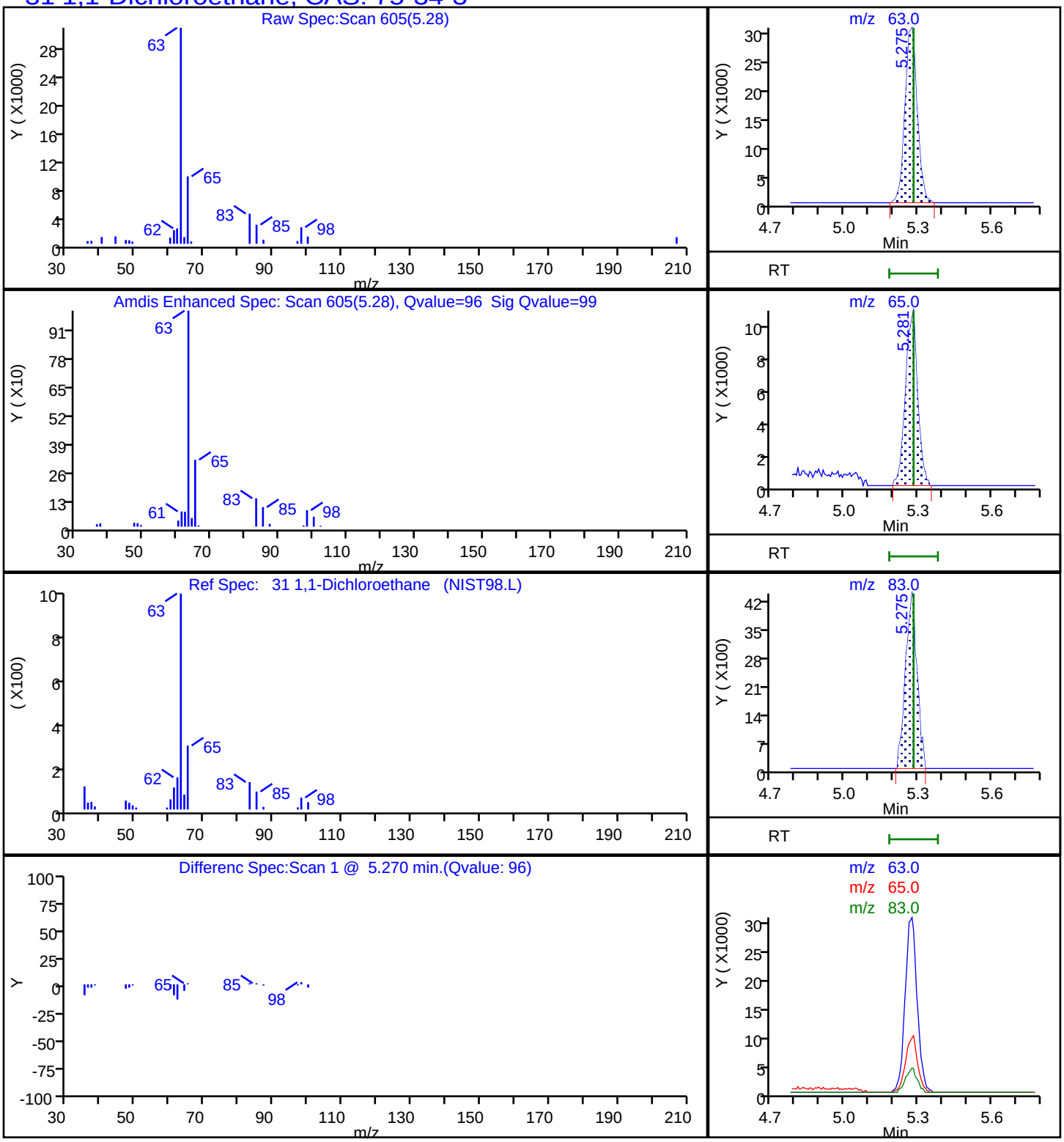
47 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X27.D				
Injection Date:	03-Dec-2021 18:38:30	Instrument ID:	19930		
Lims ID:	410-64660-A-13	Lab Sample ID:	410-64660-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	KNK41612	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

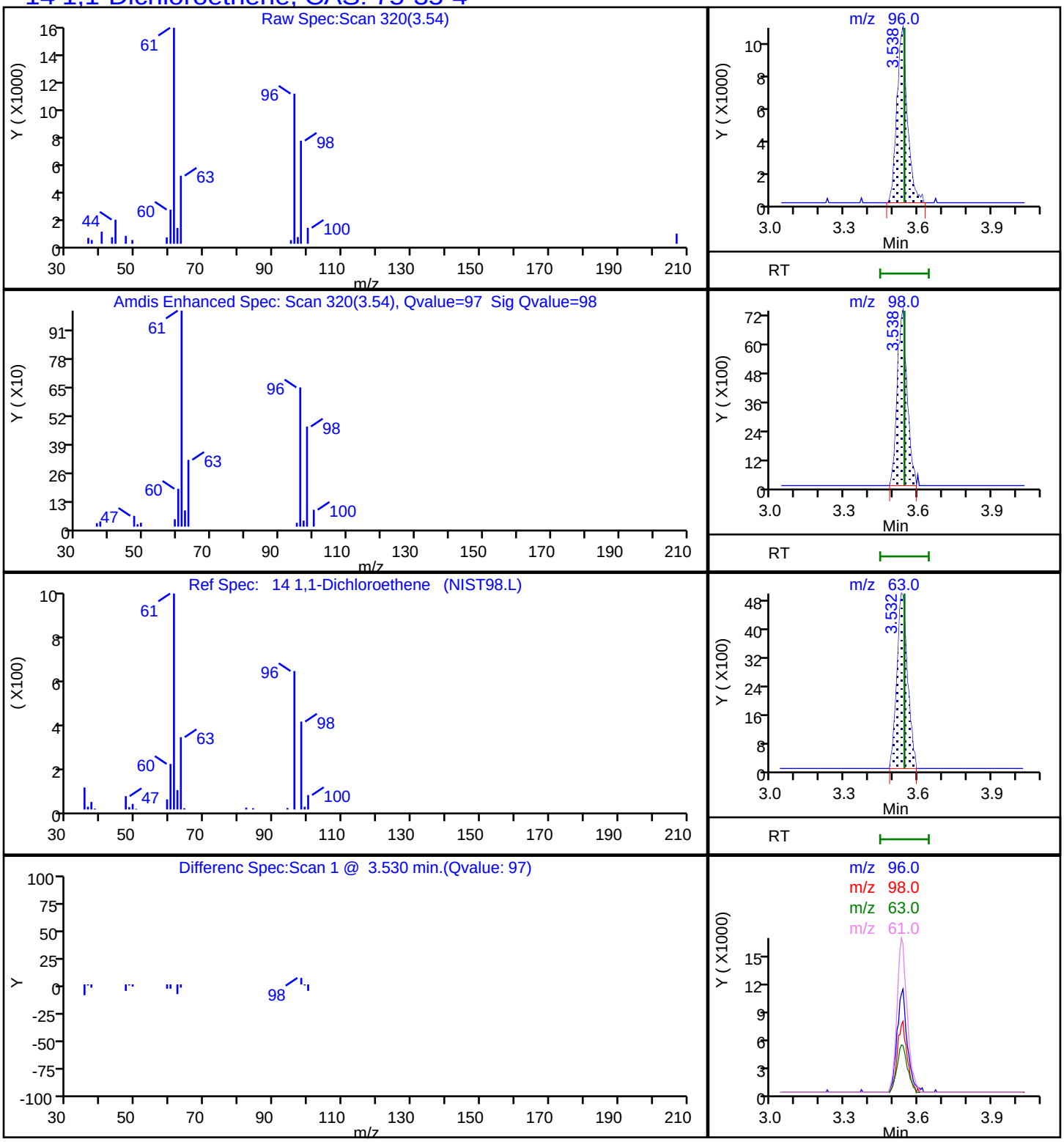
31 1,1-Dichloroethane, CAS: 75-34-3



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X27.D				
Injection Date:	03-Dec-2021 18:38:30	Instrument ID:	19930		
Lims ID:	410-64660-A-13	Lab Sample ID:	410-64660-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	KNK41612	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

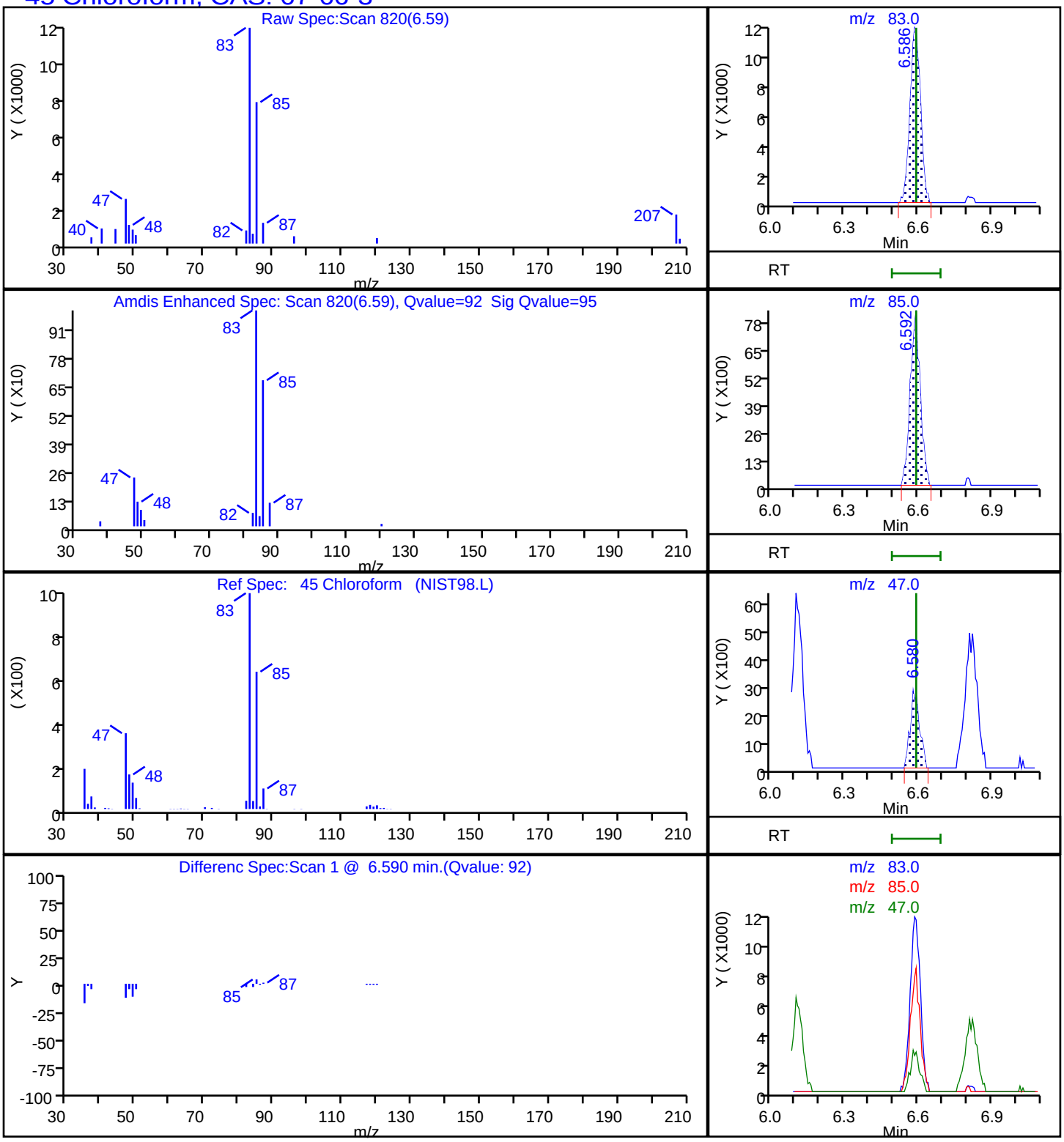
14 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X27.D				
Injection Date:	03-Dec-2021 18:38:30	Instrument ID:	19930		
Lims ID:	410-64660-A-13	Lab Sample ID:	410-64660-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	KNK41612	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

45 Chloroform, CAS: 67-66-3



Report Date: 03-Dec-2021 20:36:52 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X27.D

Injection Date: 03-Dec-2021 18:38:30 Instrument ID: 19930

Lims ID: 410-64660-A-13 Lab Sample ID: 410-64660-13

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

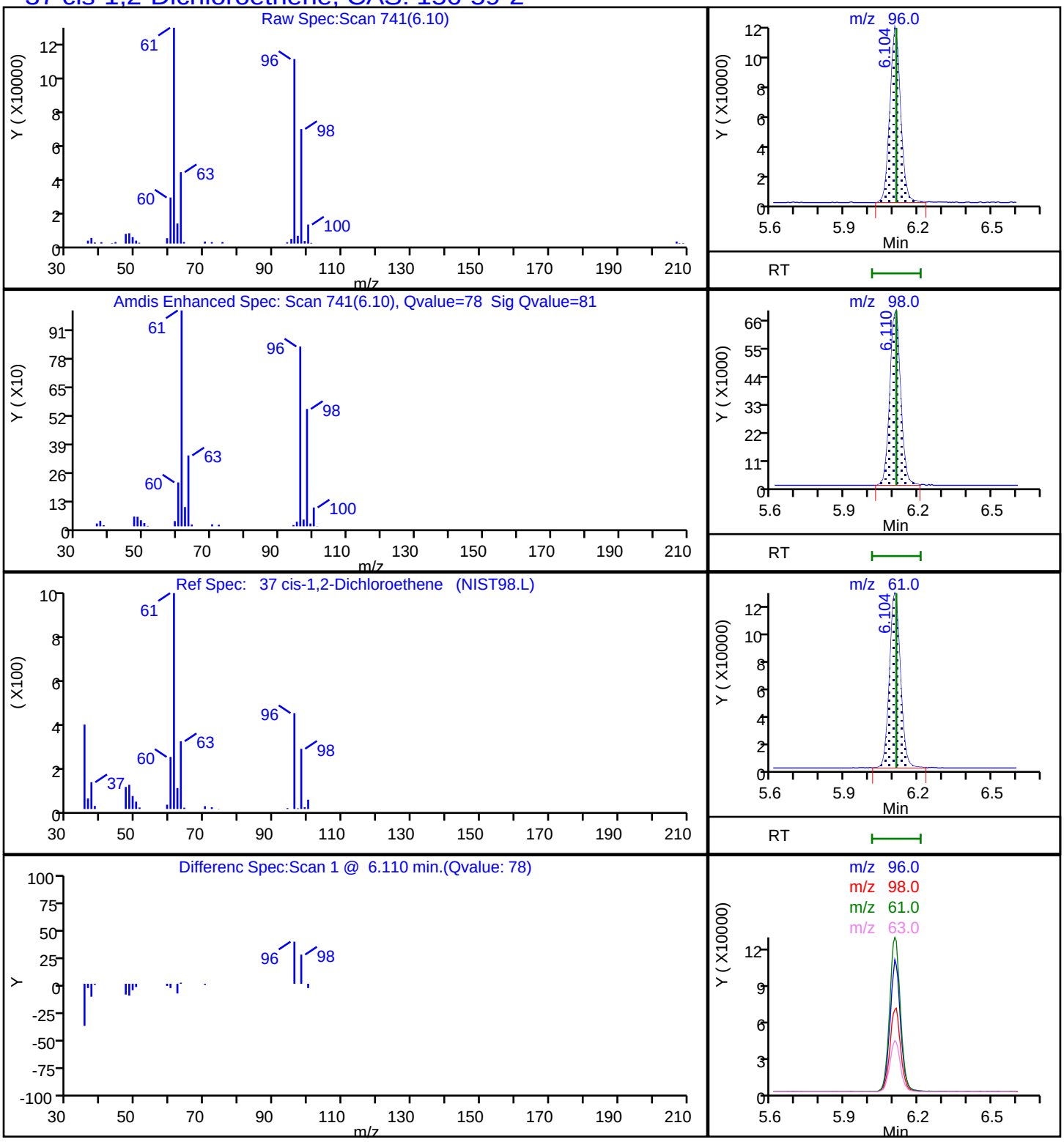
Operator ID: KNK41612 ALS Bottle#: 27 Worklist Smp#: 28

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D

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

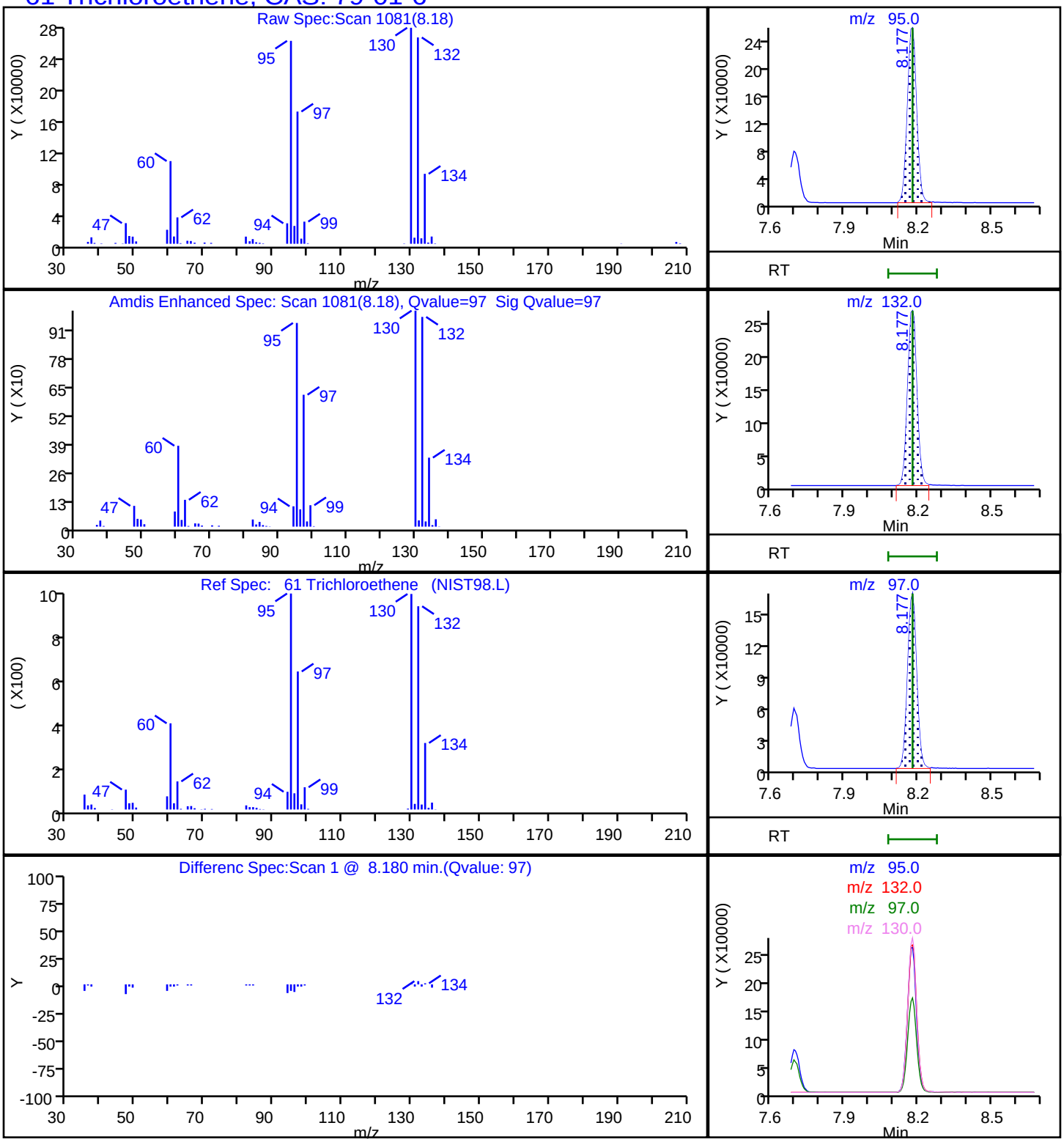
37 cis-1,2-Dichloroethene, CAS: 156-59-2



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X27.D				
Injection Date:	03-Dec-2021 18:38:30	Instrument ID:	19930		
Lims ID:	410-64660-A-13	Lab Sample ID:	410-64660-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	KNK41612	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

61 Trichloroethene, CAS: 79-01-6



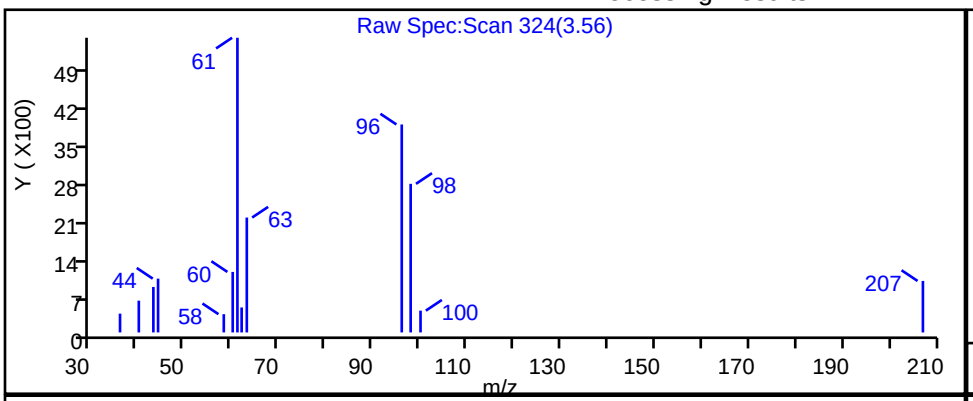
User Disabled Compound Report

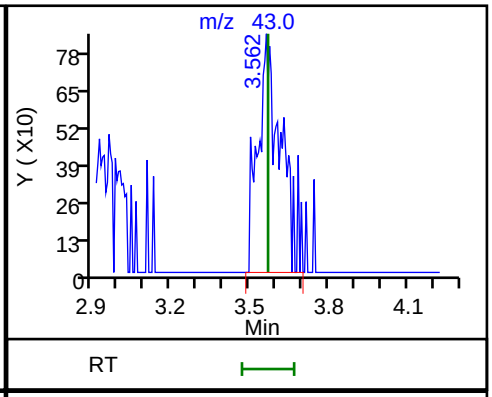
Eurofins Lancaster Laboratories Env, LLC

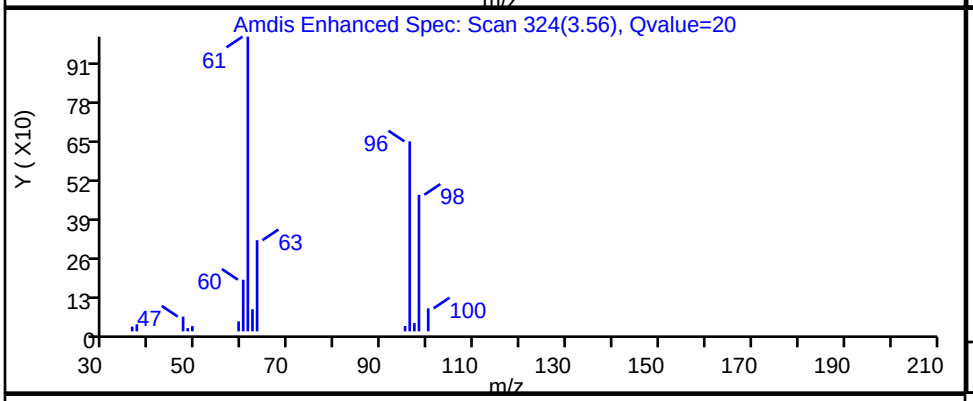
Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X27.D				
Injection Date:	03-Dec-2021 18:38:30	Instrument ID:	19930		
Lims ID:	410-64660-A-13	Lab Sample ID:	410-64660-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	KNK41612	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

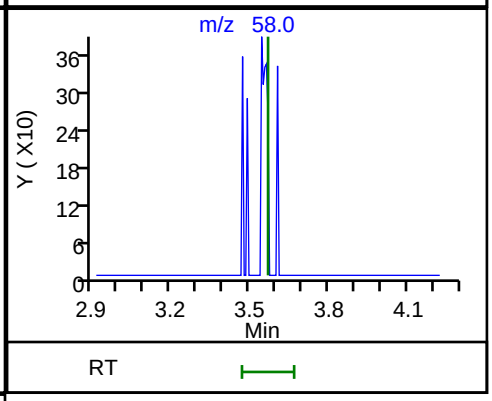
15 Acetone, CAS: 67-64-1

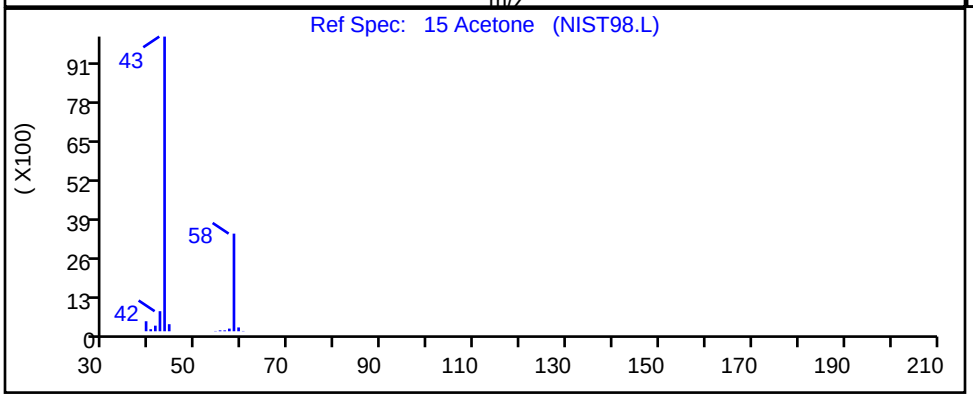
Processing Results











RT	Mass	Response	Amount
3.56	43.00	5180	0.492301
3.57	58.00	0	

Reviewer: beckerk, 03-Dec-2021 20:35:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

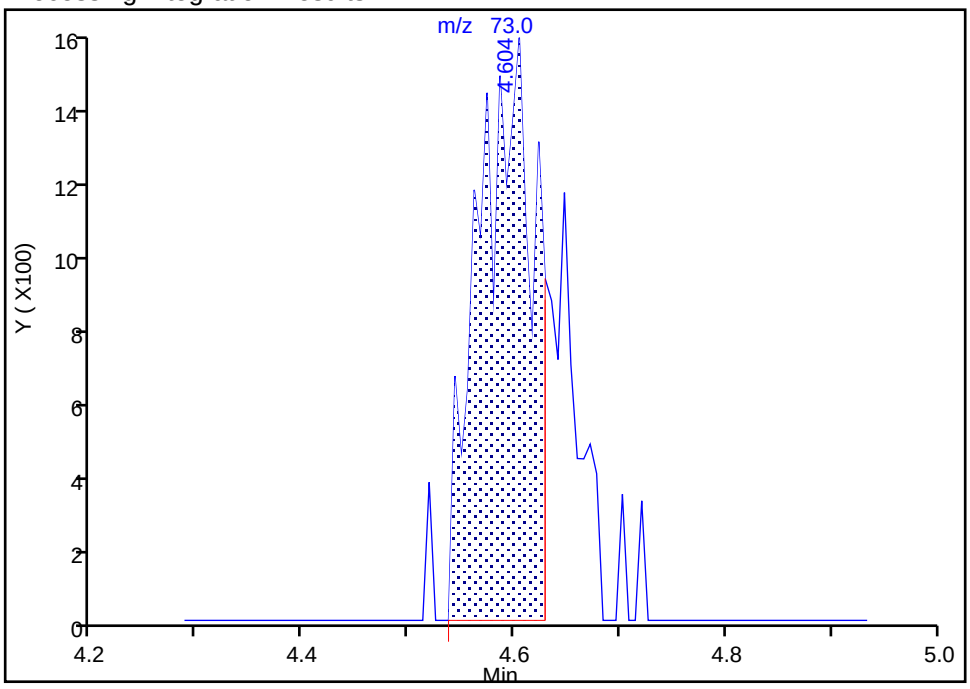
Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X27.D				
Injection Date:	03-Dec-2021 18:38:30	Instrument ID:	19930		
Lims ID:	410-64660-A-13	Lab Sample ID:	410-64660-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	KNK41612	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

27 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

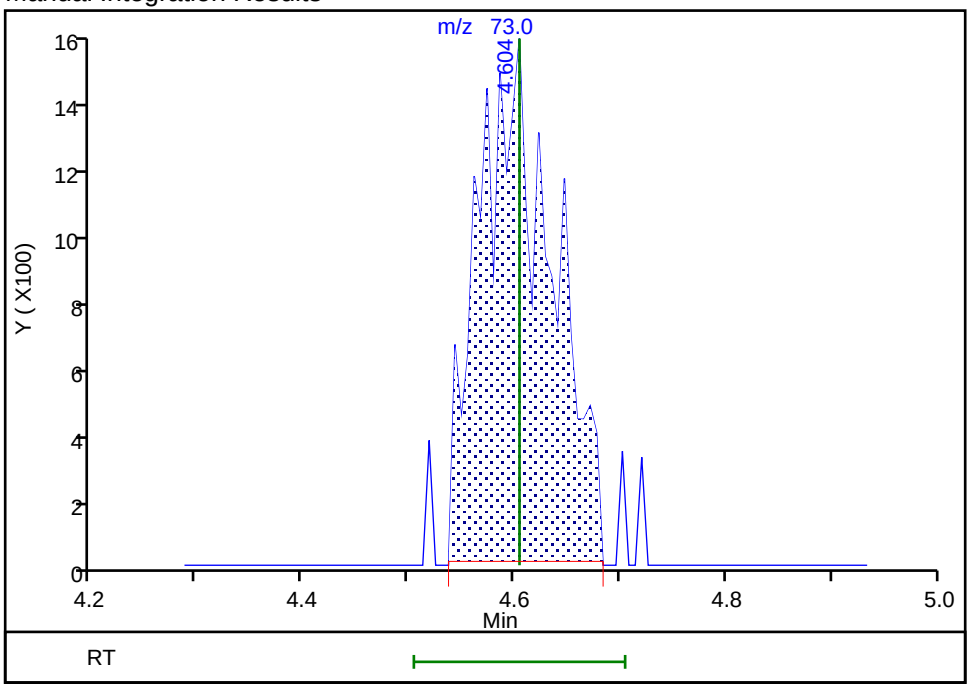
Processing Integration Results

RT: 4.60
Area: 5502
Amount: 0.033537
Amount Units: ug/l



Manual Integration Results

RT: 4.60
Area: 7202
Amount: 0.043900
Amount Units: ug/l



Reviewer: beckerk, 03-Dec-2021 20:35:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1 DL Lab Sample ID: 410-64660-13 DL

Matrix: Water Lab File ID: GD04X23.D

Analysis Method: 8260D Date Collected: 11/23/2021 12:00

Sample wt/vol: 25(mL) Date Analyzed: 12/04/2021 17:46

Soil Aliquot Vol: Dilution Factor: 10

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201490 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
127-18-4	Tetrachloroethene	60		5.0	0.60

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04X23.D
Lims ID: 410-64660-B-13 DL
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 04-Dec-2021 17:46:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0045539-024
Misc. Info.: 410-64660-B-13
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 04-Dec-2021 22:54:50 Calib Date: 27-Jul-2021 21:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1633

First Level Reviewer: johnsons Date: 04-Dec-2021 22:51:58

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	5 Chloromethane	50		2.142				ND	
	8 Vinyl chloride	62		2.258				ND	
	9 Bromomethane	94		2.587				ND	
	10 Chloroethane	64		2.660				ND	
	19 1,1-Dichloroethene	96	3.501	3.507	-0.006	35	2360	0.0531	
	21 Acetone	43		3.562				ND	7
	25 Carbon disulfide	76		3.800				ND	7
	29 Methylene Chloride	84		4.166				ND	
*	30 t-Butyl alcohol-d10 (IS)	65	4.226	4.245	-0.019	70	180382	50.0	
	33 Methyl tert-butyl ether	73		4.568				ND	
	34 trans-1,2-Dichloroethene	96		4.580				ND	
	37 1,1-Dichloroethane	63	5.238	5.245	-0.007	4	6832	0.0781	
	41 2-Butanone (MEK)	43		6.049				ND	
	42 cis-1,2-Dichloroethene	96	6.068	6.080	-0.012	78	19696	0.3555	
	49 Chlorobromomethane	128		6.403				ND	
	51 Chloroform	83		6.568				ND	
$	52 Dibromofluoromethane (Surr)	113	6.769	6.775	-0.006	93	534714	10.1	
	53 1,1,1-Trichloroethane	97	6.781	6.781	0.000	81	37725	0.5029	
	56 Carbon tetrachloride	117		6.994				ND	
$	59 1,2-Dichloroethane-d4 (Surr)	102	7.220	7.226	-0.006	30	116830	9.89	
	60 Benzene	78		7.250				ND	
	61 1,2-Dichloroethane	62		7.324				ND	
*	64 Fluorobenzene (IS)	96	7.659	7.659	0.000	99	2131051	10.0	
	68 Trichloroethene	95	8.134	8.134	0.000	98	41352	0.7569	
	70 1,2-Dichloropropane	63		8.470				ND	
	76 Dichlorobromomethane	83		8.817				ND	
	81 cis-1,3-Dichloropropene	75		9.366				ND	
	82 4-Methyl-2-pentanone (MIBK)	43		9.543				ND	
$	83 Toluene-d8 (Surr)	98	9.671	9.671	0.000	93	2099421	9.67	
	84 Toluene	92		9.750				ND	7
	96 trans-1,3-Dichloropropene	75		10.006				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
99 1,1,2-Trichloroethane	97		10.213				ND	
100 Tetrachloroethene	166	10.298	10.299	-0.001	97	380932	6.00	
102 2-Hexanone	43		10.433				ND	
104 Chlorodibromomethane	129		10.585				ND	
105 Ethylene Dibromide	107		10.695				ND	
* 106 Chlorobenzene-d5 (IS)	117	11.128	11.128	0.000	85	1667849	10.0	
108 Chlorobenzene	112		11.152				ND	
110 1,1,1,2-Tetrachloroethane	131		11.237				ND	
111 Ethylbenzene	91		11.237				ND	
S 109 Xylenes, Total	106		11.245				ND	7
112 m-Xylene & p-Xylene	106		11.353				ND	7
113 o-Xylene	106		11.683				ND	
114 Styrene	104		11.695				ND	
115 Bromoform	173		11.853				ND	
$ 119 4-Bromofluorobenzene (Surr)	95	12.121	12.121	0.000	90	784314	9.88	
120 1,1,2,2-Tetrachloroethane	83		12.225				ND	
* 134 1,4-Dichlorobenzene-d4	152	12.999	12.999	0.000	95	908533	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_29_826ISS_00026 Amount Added: 1.00 Units: uL Run Reagent

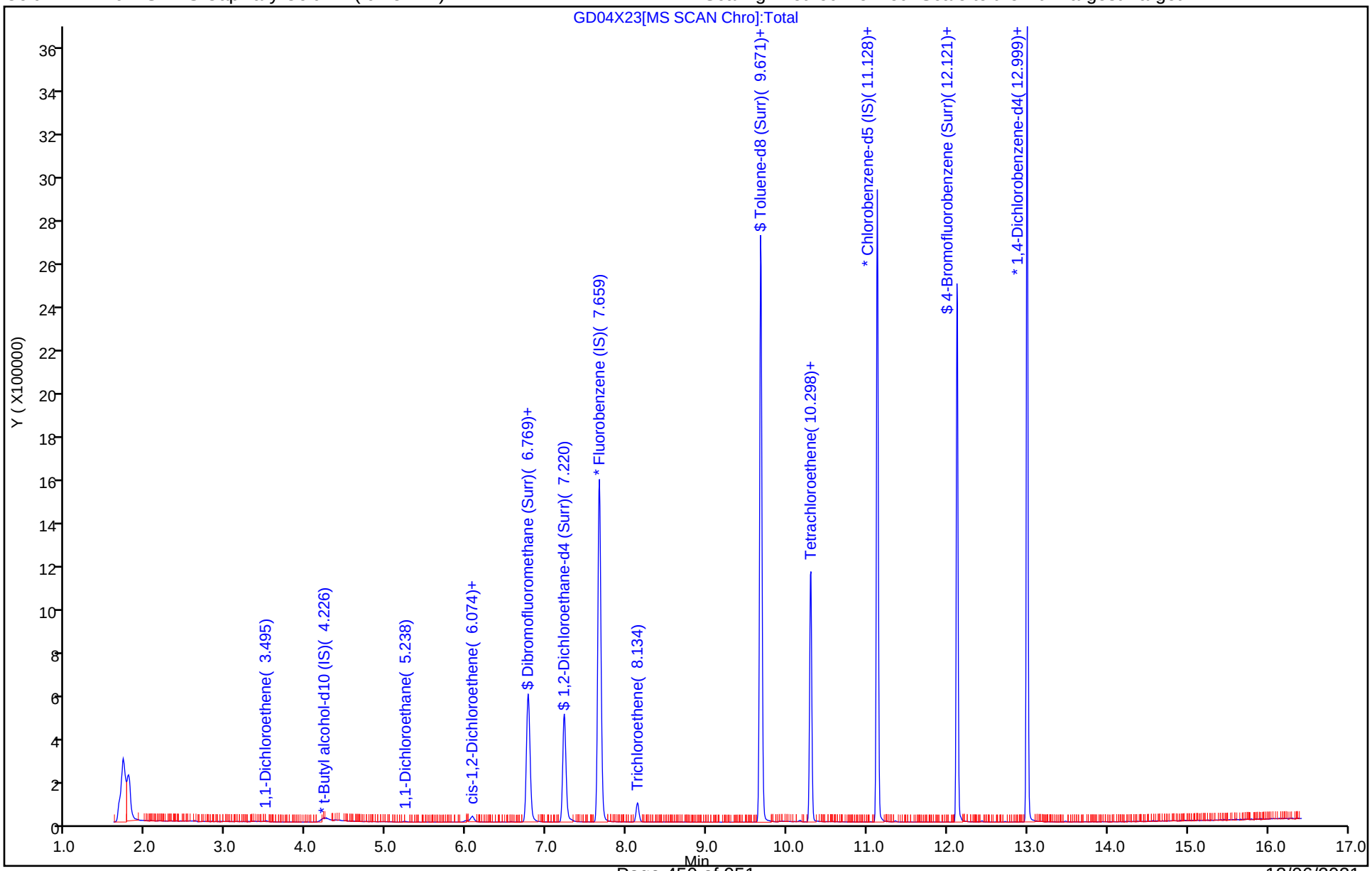
Report Date: 04-Dec-2021 22:56:27 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04X23.D

Injection Date:	04-Dec-2021 17:46:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	410-64660-B-13 DL	Lab Sample ID:	410-64660-13	Worklist Smp#:	24
Client ID:	HD-QC1-0/1-1				
Purge Vol:	25.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	23
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04X23.D
Lims ID: 410-64660-B-13 DL
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 04-Dec-2021 17:46:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0045539-024
Misc. Info.: 410-64660-B-13
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 04-Dec-2021 22:54:50 Calib Date: 27-Jul-2021 21:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1633

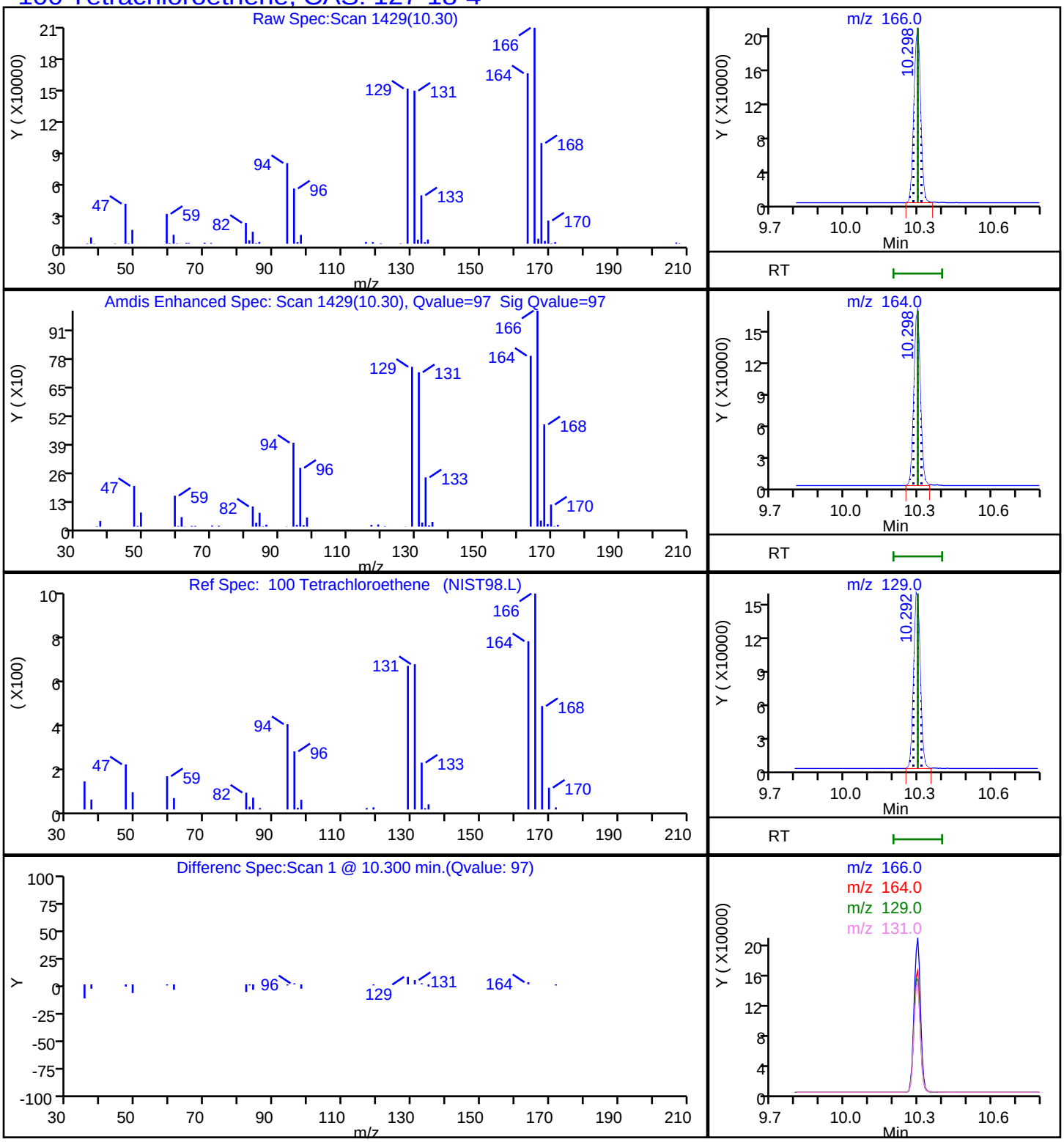
First Level Reviewer: johnsons Date: 04-Dec-2021 22:51:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.1	100.70
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.89	98.93
$ 83 Toluene-d8 (Surr)	10.0	9.67	96.66
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.88	98.78

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04X23.D				
Injection Date:	04-Dec-2021 17:46:30	Instrument ID:	16334		
Lims ID:	410-64660-B-13 DL	Lab Sample ID:	410-64660-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	knk41612	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	10.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

100 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-QC1-0/1-2 Lab Sample ID: 410-64660-14

Matrix: Water Lab File ID: ID03X12.D

Analysis Method: 8260D Date Collected: 11/23/2021 00:00

Sample wt/vol: 25(mL) Date Analyzed: 12/03/2021 13:20

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201082 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND		5.0	0.60
591-78-6	2-Hexanone	ND		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70
67-64-1	Acetone	ND		5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	ND		0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	ND		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-QC1-0/1-2 Lab Sample ID: 410-64660-14

Matrix: Water Lab File ID: ID03X12.D

Analysis Method: 8260D Date Collected: 11/23/2021 00:00

Sample wt/vol: 25(mL) Date Analyzed: 12/03/2021 13:20

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201082 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

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)	101		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X12.D
Lims ID: 410-64660-A-14
Client ID: HD-QC1-0/1-2
Sample Type: Client
Inject. Date: 03-Dec-2021 13:20:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045448-013
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 03-Dec-2021 17:43:52 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1678

First Level Reviewer: beckerk Date: 03-Dec-2021 17:35:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.172				ND	
5 Vinyl chloride	62		2.288				ND	
7 Bromomethane	94		2.617				ND	7
8 Chloroethane	64		2.690				ND	
14 1,1-Dichloroethene	96		3.544				ND	
15 Acetone	43	3.568	3.568	0.000	51	5779	0.6284	
19 Carbon disulfide	76		3.849				ND	7
23 Methylene Chloride	84		4.202				ND	7
* 24 t-Butyl alcohol-d10 (IS)	65	4.184	4.208	-0.024	18	165537	50.0	
27 Methyl tert-butyl ether	73		4.605				ND	
28 trans-1,2-Dichloroethene	96		4.623				ND	
31 1,1-Dichloroethane	63		5.281				ND	
36 2-Butanone (MEK)	43		6.068				ND	7
37 cis-1,2-Dichloroethene	96		6.110				ND	
43 Chlorobromomethane	128		6.446				ND	
45 Chloroform	83		6.592				ND	
$ 46 Dibromofluoromethane (Surr)	113	6.799	6.805	-0.006	94	596057	10.1	
47 1,1,1-Trichloroethane	97		6.824				ND	
50 Carbon tetrachloride	117		7.037				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.256	7.257	-0.001	83	122516	10.4	
54 Benzene	78		7.293				ND	
56 1,2-Dichloroethane	62		7.366				ND	
* 58 Fluorobenzene (IS)	96	7.689	7.695	-0.006	99	2343379	10.0	
61 Trichloroethene	95		8.177				ND	
63 1,2-Dichloropropane	63		8.506				ND	
68 Dichlorobromomethane	83		8.854				ND	
73 cis-1,3-Dichloropropene	75		9.402				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.567				ND	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2460792	10.1	
76 Toluene	92		9.787				ND	7
78 trans-1,3-Dichloropropene	75		10.043				ND	
80 1,1,2-Trichloroethane	97		10.250				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
81 Tetrachloroethene	166		10.335				ND	
83 2-Hexanone	43		10.457				ND	
85 Chlorodibromomethane	129		10.628				ND	
86 Ethylene Dibromide	107		10.738				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	1887436	10.0	
90 Chlorobenzene	112		11.195				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.274				ND	
92 Ethylbenzene	91		11.280				ND	
93 m-Xylene & p-Xylene	106		11.390				ND	7
94 o-Xylene	106		11.719				ND	
95 Styrene	104		11.737				ND	
96 Bromoform	173		11.896				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	93	933659	10.0	
101 1,1,2,2-Tetrachloroethane	83		12.262				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.042	13.042	0.000	94	1106115	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00002 Amount Added: 5.00 Units: uL Run Reagent

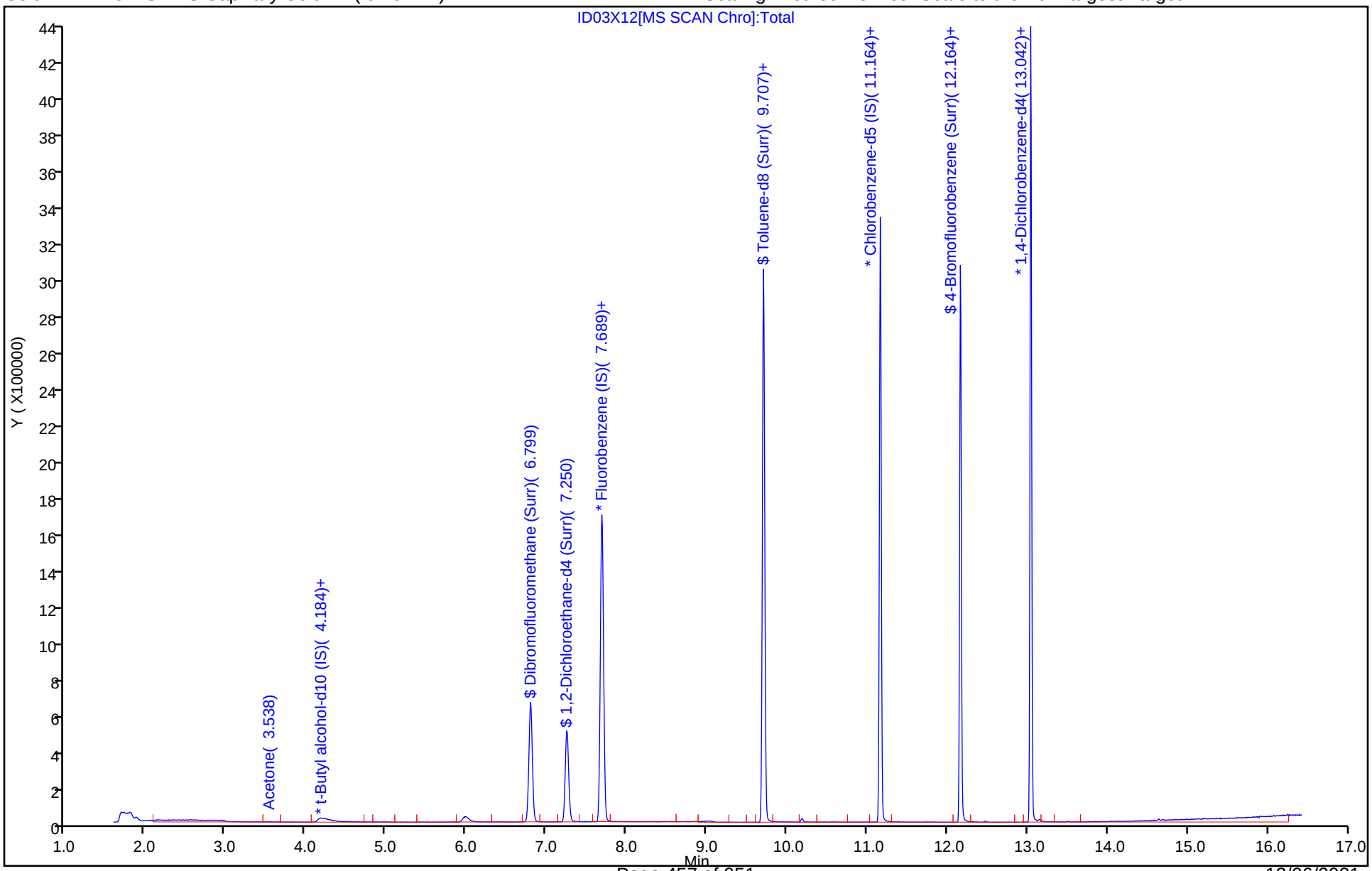
Report Date: 03-Dec-2021 17:44:01 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X12.D

Injection Date:	03-Dec-2021 13:20:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	410-64660-A-14	Lab Sample ID:	410-64660-14	Worklist Smp#:	13
Client ID:	HD-QC1-0/1-2				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X12.D				
Lims ID:	410-64660-A-14				
Client ID:	HD-QC1-0/1-2				
Sample Type:	Client				
Inject. Date:	03-Dec-2021 13:20:30	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0045448-013				
Operator ID:	KNK41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	03-Dec-2021 17:43:52	Calib Date:	24-Aug-2021 02:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1678				

First Level Reviewer: beckerk Date: 03-Dec-2021 17:35:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.1	100.97
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	103.74
$ 75 Toluene-d8 (Surr)	10.0	10.1	100.89
$ 100 4-Bromofluorobenzene (Surr)	10.0	10.0	100.16

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1 Analy Batch No.: 153227

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2021 19:35 Calibration End Date: 07/27/2021 21:47 Calibration ID: 29447

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-153227/18	GL27X18.D
Level 2	IC 410-153227/17	GL27X17.D
Level 3	IC 410-153227/16	GL27X16.D
Level 4	IC 410-153227/15	GL27X15.D
Level 5	IC 410-153227/14	GL27X14.D
Level 6	ICIS 410-153227/13	GL27X13.D
Level 7	IC 410-153227/12	GL27X12.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	0.2093 0.2641	0.2317 0.2569	0.2551	0.2760	0.2551	Ave		0.2497			0.1000	8.9		20.0			
Chloromethane	0.3453 0.2990	0.3123 0.2921	0.3167	0.3140	0.3026	Ave		0.3117			0.1000	5.5		20.0			
1,3-Butadiene	0.3888 0.3099	0.3166 0.3040	0.3162	0.3640	0.3225	Ave		0.3317				9.6		20.0			
Vinyl chloride	0.2981 0.3028	0.2852 0.3017	0.2991	0.3237	0.3086	Ave		0.3028			0.1000	3.9		20.0			
Bromomethane	0.2268 0.2155	0.2091 0.2105	0.2121	0.2253	0.2149	Ave		0.2163			0.1000	3.3		20.0			
Chloroethane	0.1791 0.1812	0.1742 0.1784	0.1786	0.1912	0.1814	Ave		0.1806			0.1000	2.9		20.0			
Dichlorofluoromethane	0.4214 0.4167	0.4063 0.4111	0.4250	0.4401	0.4178	Ave		0.4198			0.1000	2.6		20.0			
Trichlorofluoromethane	0.3688 0.3955	0.3622 0.3887	0.3897	0.4174	0.3957	Ave		0.3883			0.1000	4.7		20.0			
Ethyl ether	0.1914 0.2011	0.1920 0.1974	0.1905	0.2039	0.2009	Ave		0.1968				2.8		20.0			
Freon 123a	0.2805 0.2870	0.2790 0.2836	0.2922	0.3093	0.2871	Ave		0.2884				3.5		20.0			
Acrolein	1.8818 2.1673	1.8090 2.1212	2.1228	2.5971	2.1441	Ave		2.1204				11.9		20.0			
1,1-Dichloroethene	0.1946 0.2175	0.1882 0.2100	0.2131	0.2231	0.2141	Ave		0.2087			0.1000	6.0		20.0			
Freon 113	0.2011 0.2402	0.1912 0.2342	0.2364	0.2451	0.2357	Ave		0.2263			0.1000	9.3		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.: 410-64660-1 Analy Batch No.: 153227

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2021 19:35 Calibration End Date: 07/27/2021 21:47 Calibration ID: 29447

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetone	3.3450 2.5567	2.3836 2.4640	2.3308	2.7738	2.2761	Ave		2.5900			0.1000	14.4		20.0			
Methyl iodide	0.3860 0.4064	0.3513 0.3968	0.4063	0.4155	0.4027	Ave		0.3950				5.4		20.0			
Carbon disulfide	0.6888 0.7518	0.6178 0.7486	0.7483	0.7619	0.7391	Ave		0.7223			0.1000	7.2		20.0			
Methyl acetate	7.3928 8.1062	6.8257 8.2816	7.6297	9.2542	7.8658	Ave		7.9080			0.1000	9.7		20.0			
Allyl chloride	0.3585 0.3662	0.3146 0.3607	0.3727	0.3619	0.3605	Ave		0.3564				5.3		20.0			
Methylene Chloride	0.2281 0.2434	0.2255 0.2368	0.2476	0.2499	0.2435	Ave		0.2393			0.1000	4.0		20.0			
t-Butyl alcohol	0.7866 0.8631	0.7353 1.0826	0.7751	0.9197	0.8392	Ave		0.8574				13.6		20.0			
Acrylonitrile	2.5024 3.8604	3.0168 3.8018	3.6654	4.4415	3.9348	Ave		3.6033				17.8		20.0			
Methyl tertiary butyl ether	0.5693 0.6349	0.5429 0.6136	0.6117	0.6255	0.6302	Ave		0.6040			0.1000	5.7		20.0			
trans-1,2-Dichloroethene	0.2252 0.2452	0.1957 0.2404	0.2394	0.2482	0.2398	Ave		0.2334			0.1000	7.8		20.0			
n-Hexane	0.2813 0.3655	0.2696 0.3689	0.3446	0.3700	0.3607	Ave		0.3372				12.8		20.0			
1,1-Dichloroethane	0.3972 0.4221	0.3646 0.4175	0.4248	0.4288	0.4170	Ave		0.4103			0.2000	5.5		20.0			
di-Isopropyl ether	0.7027 0.7927	0.6761 0.7789	0.7727	0.7958	0.7825	Ave		0.7574				6.3		20.0			
2-Chloro-1,3-butadiene	0.3064 0.3609	0.2770 0.3581	0.3403	0.3575	0.3559	Ave		0.3366				9.7		20.0			
Ethyl t-butyl ether	0.6502 0.7275	0.5982 0.7097	0.6991	0.7310	0.7174	Ave		0.6904				7.1		20.0			
2-Butanone	4.2566 5.1745	4.1167 5.1032	5.1105	5.9256	5.0696	Ave		4.9653			0.1000	12.3		20.0			
cis-1,2-Dichloroethene	0.2498 0.2666	0.2321 0.2659	0.2665	0.2730	0.2658	Ave		0.2600			0.1000	5.5		20.0			
2,2-Dichloropropane	0.2760 0.3243	0.2596 0.3209	0.3115	0.3188	0.3169	Ave		0.3040				8.4		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.: 410-64660-1 Analy Batch No.: 153227

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2021 19:35 Calibration End Date: 07/27/2021 21:47 Calibration ID: 29447

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	1.0612 1.3857	1.0347 1.2797	1.3458	1.5092	1.3373	Ave		1.2791				13.5		20.0			
Methacrylonitrile	3.8252 5.0370	3.9227 5.1242	4.7387	5.9212	4.9339	Ave		4.7861				15.2		20.0			
Bromochloromethane	0.1120 0.1264	0.1055 0.1241	0.1217	0.1289	0.1237	Ave		0.1203				7.0		20.0			
Tetrahydrofuran	1.0816 1.5386	1.1370 1.5265	1.4018	1.6836	1.5202	Ave		1.4128				15.8		20.0			
Chloroform	0.3872 0.4245	0.3662 0.4207	0.4168	0.4247	0.4194	Ave		0.4085			0.2000	5.6		20.0			
1,1,1-Trichloroethane	0.3241 0.3678	0.3106 0.3701	0.3586	0.3690	0.3636	Ave		0.3520			0.1000	6.9		20.0			
Cyclohexane	0.3356 0.4466	0.3413 0.4472	0.4227	0.4402	0.4375	Ave		0.4101			0.1000	12.1		20.0			
Carbon tetrachloride	0.2773 0.3284	0.2675 0.3298	0.3176	0.3271	0.3216	Ave		0.3099			0.1000	8.4		20.0			
1,1-Dichloropropene	0.2853 0.3380	0.2704 0.3392	0.3310	0.3431	0.3310	Ave		0.3197				9.2		20.0			
Isobutyl alcohol	0.0049 0.0052	0.0039 0.0051	0.0049	0.0038	0.0046	Ave		0.0046				12.3		20.0			
Benzene	0.9540 0.9970	0.8642 0.9931	1.0029	1.0202	0.9923	Ave		0.9748			0.5000	5.4		20.0			
1,2-Dichloroethane	0.2885 0.2700	0.2611 0.2718	0.2812	0.2775	0.2663	Ave		0.2738			0.1000	3.4		20.0			
t-Amyl methyl ether	0.6017 0.6841	0.5728 0.6708	0.6574	0.6826	0.6784	Ave		0.6497				6.8		20.0			
n-Heptane	0.3378 0.3861	0.3111 0.3954	0.3853	0.3937	0.3860	Ave		0.3708				8.8		20.0			
n-Butanol	0.2494 0.3045	0.2321 0.2910	0.2738	0.2576	0.2665	Ave		0.2678				9.2		20.0			
Trichloroethene	0.2522 0.2640	0.2271 0.2651	0.2596	0.2653	0.2614	Ave		0.2564			0.2000	5.3		20.0			
Methylcyclohexane	0.3660 0.4813	0.3502 0.4834	0.4478	0.4749	0.4701	Ave		0.4391			0.1000	12.9		20.0			
1,2-Dichloropropane	0.2296 0.2628	0.2265 0.2637	0.2535	0.2598	0.2599	Ave		0.2508			0.1000	6.3		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.: 410-64660-1 Analy Batch No.: 153227

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2021 19:35 Calibration End Date: 07/27/2021 21:47 Calibration ID: 29447

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methyl methacrylate	6.5935 9.9048	7.1320 10.217	8.8803	11.135	9.8565	Ave		9.1027				18.4		20.0			
Dibromomethane	0.1149 0.1297	0.1141 0.1305	0.1305	0.1299	0.1303	Ave		0.1257				6.1		20.0			
1,4-Dioxane	+++++ 0.0517	+++++ 0.0489	0.0457	0.0457	0.0467	Ave		0.0478			0.0050	5.4		20.0			
Bromodichloromethane	0.2779 0.3133	0.2673 0.3189	0.3007	0.3114	0.3078	Ave		0.2996			0.2000	6.5		20.0			
2-Nitropropane	2.0928 2.7621	2.0329 2.8371	2.4804	3.0656	2.7329	Ave		2.5720				15.1		20.0			
cis-1,3-Dichloropropene	0.3020 0.4027	0.3241 0.4125	0.3740	0.3928	0.3965	Ave		0.3721			0.2000	11.4		20.0			
4-Methyl-2-pentanone	9.1416 13.047	9.9829 13.113	12.009	14.967	13.048	Ave		12.187			0.1000	16.5		20.0			
Toluene	0.7623 0.8209	0.7247 0.8179	0.8132	0.8368	0.8239	Ave		0.7999			0.4000	5.1		20.0			
trans-1,3-Dichloropropene	0.3398 0.4342	0.3415 0.4402	0.3949	0.4209	0.4238	Ave		0.3993			0.1000	10.7		20.0			
Ethyl methacrylate	0.2791 0.3827	0.2866 0.3838	0.3422	0.3657	0.3737	Ave		0.3448				12.9		20.0			
1,1,2-Trichloroethane	0.2296 0.2509	0.2108 0.2497	0.2518	0.2584	0.2550	Ave		0.2437			0.1000	7.1		20.0			
Tetrachloroethene	0.3492 0.3970	0.3322 0.4003	0.3915	0.4024	0.3935	Ave		0.3809			0.2000	7.4		20.0			
1,3-Dichloropropane	0.3930 0.4271	0.3680 0.4190	0.4233	0.4296	0.4230	Ave		0.4119				5.6		20.0			
2-Hexanone	6.5637 9.4690	7.0264 9.6426	8.6655	10.998	9.5915	Ave		8.8510			0.1000	17.7		20.0			
Dibromochloromethane	0.2541 0.3152	0.2587 0.3167	0.2992	0.3061	0.3073	Ave		0.2939				9.0		20.0			
1,2-Dibromoethane	0.2159 0.2501	0.2083 0.2473	0.2402	0.2471	0.2483	Ave		0.2367			0.1000	7.3		20.0			
1-Chlorohexane	0.4896 0.4677	0.4122 0.4731	0.4648	0.4631	0.4635	Ave		0.4620				5.2		20.0			
Chlorobenzene	0.8976 0.9520	0.8155 0.9374	0.9520	0.9713	0.9449	Ave		0.9244			0.5000	5.7		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.: 410-64660-1 Analy Batch No.: 153227

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2021 19:35 Calibration End Date: 07/27/2021 21:47 Calibration ID: 29447

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	0.2971 0.3369	0.2702 0.3396	0.3236	0.3310	0.3306	Ave		0.3184				8.0		20.0			
Ethylbenzene	1.4877 1.6054	1.3487 1.6082	1.5649	1.6182	1.5915	Ave		1.5464			0.1000	6.3		20.0			
m&p-Xylene	0.5432 0.6350	0.5126 0.6355	0.6191	0.6337	0.6260	Ave		0.6007			0.1000	8.5		20.0			
o-Xylene	0.5256 0.6315	0.5240 0.6352	0.6034	0.6175	0.6209	Ave		0.5940			0.3000	8.1		20.0			
Styrene	0.8694 1.0827	0.8347 1.0854	1.0118	1.0573	1.0689	Ave		1.0015			0.3000	10.5		20.0			
Bromoform	0.1669 0.2079	0.1555 0.2104	0.1839	0.1970	0.2023	Ave		0.1891			0.1000	11.2		20.0			
Isopropylbenzene	1.3259 1.6326	1.2816 1.6177	1.5291	1.6181	1.6064	Ave		1.5159			0.1000	9.8		20.0			
1,1,2,2-Tetrachloroethane	0.5088 0.5760	0.4981 0.5691	0.5437	0.5642	0.5588	Ave		0.5455			0.3000	5.6		20.0			
Bromobenzene	0.6807 0.7109	0.6245 0.7117	0.6934	0.7226	0.7073	Ave		0.6930				4.8		20.0			
trans-1,4-Dichloro-2-butene	+++++ 4.7502	3.0588 5.0007	3.9649	5.1589	4.6559	Ave		4.4316				17.8		20.0			
1,2,3-Trichloropropane	0.1288 0.1550	0.1337 0.1525	0.1562	0.1581	0.1563	Ave		0.1487				8.1		20.0			
N-Propylbenzene	2.9074 3.3218	2.7263 3.2730	3.2049	3.3600	3.3006	Ave		3.1563				7.7		20.0			
2-Chlorotoluene	0.5880 0.6753	0.5660 0.6687	0.6580	0.6781	0.6677	Ave		0.6431				7.2		20.0			
1,3,5-Trimethylbenzene	2.0473 2.4062	1.9529 2.3926	2.2499	2.3857	2.3971	Ave		2.2617				8.3		20.0			
4-Chlorotoluene	0.6336 0.6984	0.5837 0.6944	0.6886	0.7125	0.6974	Ave		0.6727				6.9		20.0			
tert-Butylbenzene	0.4204 0.5288	0.4173 0.5311	0.4908	0.5224	0.5184	Ave		0.4899				10.3		20.0			
Pentachloroethane	0.3828 0.4637	0.3878 0.4713	0.4135	0.4565	0.4592	Ave		0.4335				8.7		20.0			
1,2,4-Trimethylbenzene	2.0302 2.5171	1.9831 2.4940	2.4025	2.4923	2.4772	Ave		2.3423				9.9		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.: 410-64660-1 Analy Batch No.: 153227

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2021 19:35 Calibration End Date: 07/27/2021 21:47 Calibration ID: 29447

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
sec-Butylbenzene	2.5820 3.1121	2.4066 3.0750	2.9110	3.0641	3.0506	Ave		2.8859				9.7		20.0			
1,3-Dichlorobenzene	1.2816 1.4543	1.2742 1.4710	1.4356	1.4647	1.4527	Ave		1.4049			0.6000	6.2		20.0			
p-Isopropyltoluene	2.1607 2.7411	2.0752 2.7486	2.5257	2.7027	2.6907	Ave		2.5207				11.3		20.0			
1,4-Dichlorobenzene	1.4296 1.4848	1.2978 1.4727	1.4728	1.5062	1.4676	Ave		1.4474			0.5000	4.8		20.0			
1,2,3-Trimethylbenzene	1.0023 1.1245	0.9699 1.1351	1.0747	1.1380	1.1133	Ave		1.0797				6.3		20.0			
Benzyl chloride	0.1612 0.2425	0.1686 0.2492	0.2021	0.2201	0.2297	Ave		0.2105				16.5		20.0			
n-Butylbenzene	1.1862 1.4171	1.1404 1.4086	1.3319	1.4070	1.3957	Ave		1.3267				8.7		20.0			
1,2-Dichlorobenzene	1.2721 1.3773	1.2251 1.3738	1.3451	1.3936	1.3685	Ave		1.3365			0.4000	4.7		20.0			
1,2-Dibromo-3-Chloropropane	0.0772 0.0966	0.0733 0.0955	0.0860	0.0924	0.0931	Ave		0.0877			0.0500	10.5		20.0			
1,3,5-Trichlorobenzene	1.1300 1.2246	1.0326 1.2151	1.1806	1.2052	1.2004	Ave		1.1698				5.8		20.0			
1,2,4-Trichlorobenzene	1.0107 1.1326	0.9402 1.1124	1.0743	1.1096	1.0874	Ave		1.0667			0.2000	6.4		20.0			
Hexachlorobutadiene	0.4957 0.5636	0.4671 0.5545	0.5292	0.5461	0.5445	Ave		0.5287				6.6		20.0			
Naphthalene	1.6332 2.0708	1.5899 2.0222	1.8644	1.9523	2.0156	Ave		1.8783				10.3		20.0			
1,2,3-Trichlorobenzene	0.9082 1.0080	0.8356 0.9825	0.9684	0.9784	0.9828	Ave		0.9520				6.3		20.0			
Dibromofluoromethane (Surr)	0.2507 0.2494	0.2492 0.2489	0.2489	0.2483	0.2489	Ave		0.2492				0.3		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0562 0.0552	0.0562 0.0554	0.0552	0.0552	0.0545	Ave		0.0554				1.1		20.0			
Toluene-d8 (Surr)	1.3033 1.3023	1.3047 1.2820	1.3114	1.3051	1.3067	Ave		1.3022				0.7		20.0			
4-Bromofluorobenzene (Surr)	0.4719 0.4772	0.4751 0.4746	0.4827	0.4754	0.4755	Ave		0.4761				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.: 410-64660-1 Analy Batch No.: 153227

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2021 19:35 Calibration End Date: 07/27/2021 21:47 Calibration ID: 29447

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-153227/18	GL27X18.D
Level 2	IC 410-153227/17	GL27X17.D
Level 3	IC 410-153227/16	GL27X16.D
Level 4	IC 410-153227/15	GL27X15.D
Level 5	IC 410-153227/14	GL27X14.D
Level 6	ICIS 410-153227/13	GL27X13.D
Level 7	IC 410-153227/12	GL27X12.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	7861 516723	21724 1253546	48285	105695	249774	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	12968 585078	29283 1425192	59955	120238	296377	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	14603 606472	29692 1483329	59859	139390	315859	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	11198 592530	26745 1472364	56627	123951	302193	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	8518 421592	19605 1027363	40150	86285	210438	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	6729 354649	16333 870537	33819	73196	177677	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	15827 815276	38104 2006252	80455	168533	409195	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	13852 773951	33969 1896898	73768	159826	387502	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	7191 393590	18010 963484	36058	78080	196735	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 123a	FB	Ave	10536 561590	26167 1384134	55311	118430	281133	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd 10	Ave	59676 3112860	132577 7310070	305188	620999	1506352	10.00 500	25.0 1250	50.0	100.0	250
1,1-Dichloroethene	FB	Ave	7309 425643	17652 1024792	40340	85424	209672	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 113	FB	Ave	7554 469934	17931 1142818	44751	93862	230841	0.200 10.0	0.500 25.0	1.00	2.00	5.00

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1 Analy Batch No.: 153227

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2021 19:35 Calibration End Date: 07/27/2021 21:47 Calibration ID: 29447

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Acetone	TBAd10	Ave	21216 734480	34939 1698335	67020	132655	319840	2.00 100	5.00 250	10.0	20.0	50.0
Methyl iodide	FB	Ave	14499 795281	32943 1936349	76913	159111	394336	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon disulfide	FB	Ave	25874 1470951	57933 3652913	141663	291736	723844	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd10	Ave	4689 232867	10005 570825	21939	44258	110528	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	13465 716532	29502 1760283	70545	138586	353062	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	8567 476324	21145 1155642	46875	95699	238472	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd10	Ave	9978 495911	21557 1492417	44573	87970	235836	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd10	Ave	3968 277249	11055 655106	26349	53103	138229	0.500 25.0	1.25 62.5	2.50	5.00	12.5
Methyl tertiary butyl ether	FB	Ave	21385 1242395	50908 2994194	115806	239506	617188	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	8457 479749	18357 1173294	45312	95047	234832	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	10567 715082	25282 1800233	65230	141660	353278	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	14921 825927	34195 2037094	80419	164184	408393	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	26395 1551125	63401 3801082	146277	304739	766313	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	11510 706249	25981 1747556	64426	136910	348522	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	24423 1423423	56098 3463336	132335	279921	702523	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone	TBAd10	Ave	26998	60342	146949	283392	712377	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.: 410-64660-1 Analy Batch No.: 153227

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2021 19:35 Calibration End Date: 07/27/2021 21:47 Calibration ID: 29447

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
			1486502	3517461				100	250			
cis-1,2-Dichloroethene	FB	Ave	9383 521666	21768 1297682	50459	104526	260285	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	10367 634495	24342 1566148	58977	122071	310357	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Propionitrile	TBAd 10	Ave	13462 796171	30332 1764071	77396	144352	375827	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd 10	Ave	24262 1447001	57499 3531950	136258	283178	693298	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	4205 247355	9896 605697	23043	49371	121185	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd 10	Ave	3430 221001	8333 526089	20154	40258	106807	1.00 50.0	2.50 125	5.00	10.0	25.0
Chloroform	FB	Ave	14545 830529	34342 2052889	78896	162636	410725	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	12174 719579	29131 1806207	67893	141297	356100	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	12606 873813	32004 2182074	80010	168554	428403	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	10415 642568	25082 1609545	60121	125270	314977	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	10716 661411	25354 1655371	62661	131391	324144	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	FB	Ave	9165 510385	18495 1236400	46747	71811	225001	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	35835 1950769	81040 4846041	189845	390651	971741	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	10837 528398	24482 1326300	53223	106240	260781	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	22599 1338549	53714 3273561	124444	261376	664335	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	12688 755469	29178 1929385	72933	150763	378028	0.200 10.0	0.500 25.0	1.00	2.00	5.00

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1 Analy Batch No.: 153227

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2021 19:35 Calibration End Date: 07/27/2021 21:47 Calibration ID: 29447

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Butanol	TBAd10	Ave	13839 765480	29774 1754885	68888	107788	327688	17.5 875	43.8 2188	87.5	175	438
Trichloroethene	FB	Ave	9474 516547	21298 1293471	49147	101568	256014	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	13746 941824	32844 2359075	84779	181841	460371	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	8624 514255	21244 1287040	47996	99474	254477	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl methacrylate	TBAd10	Ave	4182 284538	10454 704239	25535	53252	138502	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromomethane	FB	Ave	4317 253858	10701 637054	24708	49729	127594	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBAd10	Ave	+++++ 74329	+++++ 168647	6572	10923	32843	+++++ 500	+++++ 1250	50.0	100	250
Bromodichloromethane	FB	Ave	10440 613045	25067 1556304	56926	119231	301385	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBAd10	Ave	6637 396735	14899 977744	35662	73305	192010	1.00 50.0	2.50 125	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	11343 787924	30391 2012913	70807	150413	388304	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone	TBAd10	Ave	57982 3748028	146329 9038373	345315	715808	1833544	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd5	Ave	22427 1263648	53299 3182569	120357	251158	632066	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd5	Ave	9997 668411	25116 1712803	58447	126337	325124	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd5	Ave	8211 589066	21078 1493298	50655	109774	286710	0.200 10.0	0.500 25.0	1.00	2.00	5.00

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1 Analy Batch No.: 153227

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2021 19:35 Calibration End Date: 07/27/2021 21:47 Calibration ID: 29447

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,1,2-Trichloroethane	CBZd 5	Ave	6754 386158	15502 971609	37268	77558	195631	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd 5	Ave	10275 611154	24431 1557790	57945	120772	301876	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd 5	Ave	11562 657511	27066 1630413	62656	128951	324544	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBAd 10	Ave	41631 2720182	102992 6646341	249173	525996	1347779	2.00 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd 5	Ave	7476 485191	19025 1232439	44279	91864	235743	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane	CBZd 5	Ave	6351 384909	15317 962305	35554	74158	190467	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd 5	Ave	14405 719936	30317 1840716	68788	138994	355580	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chlorobenzene	CBZd 5	Ave	26408 1465495	59976 3647731	140899	291512	724968	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd 5	Ave	8742 518542	19872 1321338	47898	99332	253604	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd 5	Ave	43770 2471291	99191 6257658	231619	485679	1220994	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd 5	Ave	31964 1954841	75404 4945575	183271	380409	960534	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd 5	Ave	15463 972087	38542 2471775	89302	185335	476343	0.200 10.0	0.500 25.0	1.00	2.00	5.00

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1 Analy Batch No.: 153227

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2021 19:35 Calibration End Date: 07/27/2021 21:47 Calibration ID: 29447

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Styrene	CBZd 5	Ave	25579 1666639	61389 4223576	149757	317345	820059	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd 5	Ave	4912 320058	11437 818655	27224	59134	155220	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd 5	Ave	39012 2513151	94259 6294550	226325	485658	1232476	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	8736 519410	21368 1301500	47628	99213	250651	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd 4	Ave	11689 640968	26789 1627659	60740	127057	317303	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	TBAd 10	Ave	+++++ 1364596	44835 3446796	114008	246723	654243	+++++ 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	2212 139728	5734 348849	13685	27797	70129	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd 4	Ave	49923 2995210	116945 7485306	280736	590833	1480592	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd 4	Ave	10097 608930	24277 1529310	57641	119243	299514	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd 4	Ave	35155 2169631	83768 5471729	197085	419509	1075297	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd 4	Ave	10880 629769	25036 1588139	60319	125295	312849	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd 4	Ave	7219 476799	17899 1214603	42989	91865	232532	0.200 10.0	0.500 25.0	1.00	2.00	5.00

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1 Analy Batch No.: 153227

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2021 19:35 Calibration End Date: 07/27/2021 21:47 Calibration ID: 29447

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Pentachloroethane	DCBd 4	Ave	6573 418106	16636 1077865	36222	80272	205994	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd 4	Ave	34861 2269629	85067 5703646	210451	438254	1111219	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd 4	Ave	44335 2806118	103229 7032509	254997	538798	1368479	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichlorobenzene	DCBd 4	Ave	22007 1311314	54656 3364224	125754	257560	651676	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd 4	Ave	37102 2471640	89017 6285970	221243	475245	1207000	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd 4	Ave	24548 1338790	55669 3368113	129014	264857	658335	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd 4	Ave	17211 1013920	41606 2596038	94138	200100	499402	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd 4	Ave	2768 218698	7232 569915	17706	38696	103032	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd 4	Ave	20369 1277757	48919 3221534	116669	247402	626076	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd 4	Ave	21843 1241894	52551 3141899	117822	245051	613898	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1325 87076	3145 218520	7530	16249	41743	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd 4	Ave	19403 1104240	44292 2778810	103419	211923	538482	0.200 10.0	0.500 25.0	1.00	2.00	5.00

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1 Analy Batch No.: 153227

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2021 19:35 Calibration End Date: 07/27/2021 21:47 Calibration ID: 29447

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2,4-Trichlorobenzene	DCBd 4	Ave	17354 1021250	40328 2544095	94107	195116	487803	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd 4	Ave	8511 508190	20037 1268156	46353	96028	244269	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd 4	Ave	28044 1867226	68200 4624623	163319	343293	904150	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd 4	Ave	15594 908913	35843 2246935	84829	172041	440850	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	470752 487955	467435 485776	471097	475325	487572	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	105513 108066	105375 108065	104518	105744	106740	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd 5	Ave	1917346 2004602	1919172 1995381	1940951	1958504	2005076	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	694165 734538	698786 738716	714443	713497	729675	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.: 410-64660-1 Analy Batch No.: 153227

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2021 19:35 Calibration End Date: 07/27/2021 21:47 Calibration ID: 29447

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-153227/18	GL27X18.D
Level 2	IC 410-153227/17	GL27X17.D
Level 3	IC 410-153227/16	GL27X16.D
Level 4	IC 410-153227/15	GL27X15.D
Level 5	IC 410-153227/14	GL27X14.D
Level 6	ICIS 410-153227/13	GL27X13.D
Level 7	IC 410-153227/12	GL27X12.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	-16.2 2.9	-7.2	2.1	10.5	2.1	5.7	50 30	30	30	30	30	30
Chloromethane	10.8 -6.3	0.2	1.6	0.7	-2.9	-4.1	50 30	30	30	30	30	30
1,3-Butadiene	17.2 -8.4	-4.6	-4.7	9.7	-2.8	-6.6	50 30	30	30	30	30	30
Vinyl chloride	-1.5 -0.3	-5.8	-1.2	6.9	1.9	0.0	50 30	30	30	30	30	30
Bromomethane	4.8 -2.7	-3.4	-1.9	4.2	-0.7	-0.4	50 30	30	30	30	30	30
Chloroethane	-0.8 -1.2	-3.6	-1.1	5.8	0.5	0.4	50 30	30	30	30	30	30
Dichlorofluoromethane	0.4 -2.1	-3.2	1.2	4.8	-0.5	-0.7	50 30	30	30	30	30	30
Trichlorofluoromethane	-5.0 0.1	-6.7	0.4	7.5	1.9	1.9	50 30	30	30	30	30	30
Ethyl ether	-2.7 0.3	-2.4	-3.2	3.6	2.1	2.2	50 30	30	30	30	30	30
Freon 123a	-2.7 -1.6	-3.2	1.3	7.2	-0.5	-0.5	50 30	30	30	30	30	30
Acrolein	-11.3 0.0	-14.7	0.1	22.5	1.1	2.2	50 30	30	30	30	30	30
1,1-Dichloroethene	-6.7 0.6	-9.8	2.1	6.9	2.6	4.2	50 30	30	30	30	30	30
Freon 113	-11.1 3.5	-15.5	4.5	8.3	4.2	6.1	50 30	30	30	30	30	30
Acetone	29.1 -4.9	-8.0	-10.0	7.1	-12.1	-1.3	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.: 410-64660-1 Analy Batch No.: 153227

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2021 19:35 Calibration End Date: 07/27/2021 21:47 Calibration ID: 29447

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	-2.3 0.5	-11.1	2.9	5.2	1.9	2.9	50 30	30	30	30	30	30
Carbon disulfide	-4.6 3.6	-14.5	3.6	5.5	2.3	4.1	50 30	30	30	30	30	30
Methyl acetate	-6.5 4.7	-13.7	-3.5	17.0	-0.5	2.5	50 30	30	30	30	30	30
Allyl chloride	0.6 1.2	-11.7	4.5	1.5	1.1	2.7	50 30	30	30	30	30	30
Methylene Chloride	-4.7 -1.0	-5.8	3.5	4.5	1.8	1.7	50 30	30	30	30	30	30
t-Butyl alcohol	-8.3 26.3	-14.2	-9.6	7.3	-2.1	0.7	50 30	30	30	30	30	30
Acrylonitrile	-30.6 5.5	-16.3	1.7	23.3	9.2	7.1	50 30	30	30	30	30	30
Methyl tertiary butyl ether	-5.7 1.6	-10.1	1.3	3.6	4.3	5.1	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-3.5 3.0	-16.1	2.5	6.3	2.7	5.0	50 30	30	30	30	30	30
n-Hexane	-16.6 9.4	-20.1	2.2	9.7	7.0	8.4	50 30	30	30	30	30	30
1,1-Dichloroethane	-3.2 1.7	-11.1	3.5	4.5	1.6	2.9	50 30	30	30	30	30	30
di-Isopropyl ether	-7.2 2.8	-10.7	2.0	5.1	3.3	4.7	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-9.0 6.4	-17.7	1.1	6.2	5.7	7.2	50 30	30	30	30	30	30
Ethyl t-butyl ether	-5.8 2.8	-13.4	1.2	5.9	3.9	5.4	50 30	30	30	30	30	30
2-Butanone	-14.3 2.8	-17.1	2.9	19.3	2.1	4.2	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-3.9 2.3	-10.7	2.5	5.0	2.2	2.6	50 30	30	30	30	30	30
2,2-Dichloropropane	-9.2 5.6	-14.6	2.5	4.9	4.2	6.7	50 30	30	30	30	30	30
Propionitrile	-17.0 0.0	-19.1	5.2	18.0	4.6	8.3	50 30	30	30	30	30	30
Methacrylonitrile	-20.1 7.1	-18.0	-1.0	23.7	3.1	5.2	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.: 410-64660-1 Analy Batch No.: 153227

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2021 19:35 Calibration End Date: 07/27/2021 21:47 Calibration ID: 29447

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	-7.0 3.1	-12.3	1.1	7.1	2.8	5.0	50 30	30	30	30	30	30
Tetrahydrofuran	-23.4 8.1	-19.5	-0.8	19.2	7.6	8.9	50 30	30	30	30	30	30
Chloroform	-5.2 3.0	-10.4	2.0	4.0	2.7	3.9	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-7.9 5.2	-11.7	1.9	4.8	3.3	4.5	50 30	30	30	30	30	30
Cyclohexane	-18.2 9.0	-16.8	3.1	7.3	6.7	8.9	50 30	30	30	30	30	30
Carbon tetrachloride	-10.5 6.4	-13.7	2.5	5.6	3.8	6.0	50 30	30	30	30	30	30
1,1-Dichloropropene	-10.8 6.1	-15.4	3.5	7.3	3.5	5.7	50 30	30	30	30	30	30
Isobutyl alcohol	5.5 9.5	-14.8	6.7	-18.9	-0.7	12.7	50 30	30	30	30	30	30
Benzene	-2.1 1.9	-11.3	2.9	4.7	1.8	2.3	50 30	30	30	30	30	30
1,2-Dichloroethane	5.4 -0.7	-4.6	2.7	1.3	-2.7	-1.4	50 30	30	30	30	30	30
t-Amyl methyl ether	-7.4 3.3	-11.8	1.2	5.1	4.4	5.3	50 30	30	30	30	30	30
n-Heptane	-8.9 6.6	-16.1	3.9	6.2	4.1	4.1	50 30	30	30	30	30	30
n-Butanol	-6.9 8.6	-13.3	2.2	-3.8	-0.5	13.7	50 30	30	30	30	30	30
Trichloroethene	-1.6 3.4	-11.4	1.3	3.5	2.0	3.0	50 30	30	30	30	30	30
Methylcyclohexane	-16.7 10.1	-20.2	2.0	8.1	7.1	9.6	50 30	30	30	30	30	30
1,2-Dichloropropane	-8.5 5.1	-9.7	1.1	3.6	3.6	4.8	50 30	30	30	30	30	30
Methyl methacrylate	-27.6 12.2	-21.7	-2.4	22.3	8.3	8.8	50 30	30	30	30	30	30
Dibromomethane	-8.6 3.8	-9.2	3.8	3.3	3.6	3.2	50 30	30	30	30	30	30
1,4-Dioxane	+++++ 2.5	+++++	-4.3	-4.4	-2.1	8.3	 30		50	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.: 410-64660-1 Analy Batch No.: 153227

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2021 19:35 Calibration End Date: 07/27/2021 21:47 Calibration ID: 29447

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	-7.2 6.4	-10.8	0.4	3.9	2.7	4.6	50 30	30	30	30	30	30
2-Nitropropane	-18.6 10.3	-21.0	-3.6	19.2	6.3	7.4	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-18.8 10.9	-12.9	0.5	5.6	6.6	8.2	50 30	30	30	30	30	30
4-Methyl-2-pentanone	-25.0 7.6	-18.1	-1.5	22.8	7.1	7.1	50 30	30	30	30	30	30
Toluene	-4.7 2.2	-9.4	1.7	4.6	3.0	2.6	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-14.9 10.2	-14.5	-1.1	5.4	6.1	8.7	50 30	30	30	30	30	30
Ethyl methacrylate	-19.1 11.3	-16.9	-0.8	6.1	8.4	11.0	50 30	30	30	30	30	30
1,1,2-Trichloroethane	-5.8 2.4	-13.5	3.3	6.0	4.6	2.9	50 30	30	30	30	30	30
Tetrachloroethene	-8.3 5.1	-12.8	2.8	5.6	3.3	4.2	50 30	30	30	30	30	30
1,3-Dichloropropane	-4.6 1.7	-10.6	2.8	4.3	2.7	3.7	50 30	30	30	30	30	30
2-Hexanone	-25.8 8.9	-20.6	-2.1	24.3	8.4	7.0	50 30	30	30	30	30	30
Dibromochloromethane	-13.5 7.8	-12.0	1.8	4.1	4.6	7.3	50 30	30	30	30	30	30
1,2-Dibromoethane	-8.8 4.5	-12.0	1.5	4.4	4.9	5.6	50 30	30	30	30	30	30
1-Chlorohexane	6.0 2.4	-10.8	0.6	0.2	0.3	1.2	50 30	30	30	30	30	30
Chlorobenzene	-2.9 1.4	-11.8	3.0	5.1	2.2	3.0	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-6.7 6.6	-15.1	1.6	3.9	3.8	5.8	50 30	30	30	30	30	30
Ethylbenzene	-3.8 4.0	-12.8	1.2	4.6	2.9	3.8	50 30	30	30	30	30	30
m&p-Xylene	-9.6 5.8	-14.7	3.1	5.5	4.2	5.7	50 30	30	30	30	30	30
o-Xylene	-11.5 6.9	-11.8	1.6	4.0	4.5	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.: 410-64660-1 Analy Batch No.: 153227

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2021 19:35 Calibration End Date: 07/27/2021 21:47 Calibration ID: 29447

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	-13.2 8.4	-16.7	1.0	5.6	6.7	8.1	50 30	30	30	30	30	30
Bromoform	-11.7 11.2	-17.8	-2.8	4.2	7.0	9.9	50 30	30	30	30	30	30
Isopropylbenzene	-12.5 6.7	-15.5	0.9	6.7	6.0	7.7	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-6.7 4.3	-8.7	-0.3	3.4	2.4	5.6	50 30	30	30	30	30	30
Bromobenzene	-1.8 2.7	-9.9	0.1	4.3	2.1	2.6	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	+++++ 12.8	-31.0	-10.5	16.4	5.1	7.2	30	50	30	30	30	30
1,2,3-Trichloropropane	-13.3 2.6	-10.1	5.1	6.3	5.2	4.2	50 30	30	30	30	30	30
N-Propylbenzene	-7.9 3.7	-13.6	1.5	6.5	4.6	5.2	50 30	30	30	30	30	30
2-Chlorotoluene	-8.6 4.0	-12.0	2.3	5.4	3.8	5.0	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-9.5 5.8	-13.7	-0.5	5.5	6.0	6.4	50 30	30	30	30	30	30
4-Chlorotoluene	-5.8 3.2	-13.2	2.4	5.9	3.7	3.8	50 30	30	30	30	30	30
tert-Butylbenzene	-14.2 8.4	-14.8	0.2	6.6	5.8	7.9	50 30	30	30	30	30	30
Pentachloroethane	-11.7 8.7	-10.5	-4.6	5.3	5.9	7.0	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-13.3 6.5	-15.3	2.6	6.4	5.8	7.5	50 30	30	30	30	30	30
sec-Butylbenzene	-10.5 6.6	-16.6	0.9	6.2	5.7	7.8	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-8.8 4.7	-9.3	2.2	4.3	3.4	3.5	50 30	30	30	30	30	30
p-Isopropyltoluene	-14.3 9.0	-17.7	0.2	7.2	6.7	8.7	50 30	30	30	30	30	30
1,4-Dichlorobenzene	-1.2 1.8	-10.3	1.8	4.1	1.4	2.6	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-7.2 5.1	-10.2	-0.5	5.4	3.1	4.1	50 30	30	30	30	30	30

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1 Analy Batch No.: 153227

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/27/2021 19:35 Calibration End Date: 07/27/2021 21:47 Calibration ID: 29447

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	-23.4 18.4	-19.9	-4.0	4.5	9.1	15.2	50 30	30	30	30	30	30
n-Butylbenzene	-10.6 6.2	-14.0	0.4	6.0	5.2	6.8	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-4.8 2.8	-8.3	0.6	4.3	2.4	3.1	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-12.0 8.9	-16.4	-2.0	5.3	6.1	10.1	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-3.4 3.9	-11.7	0.9	3.0	2.6	4.7	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-5.3 4.3	-11.9	0.7	4.0	1.9	6.2	50 30	30	30	30	30	30
Hexachlorobutadiene	-6.2 4.9	-11.6	0.1	3.3	3.0	6.6	50 30	30	30	30	30	30
Naphthalene	-13.1 7.7	-15.4	-0.7	3.9	7.3	10.2	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-4.6 3.2	-12.2	1.7	2.8	3.2	5.9	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	0.6 -0.1	0.0	-0.1	-0.4	-0.1	0.1	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	1.4 -0.1	1.4	-0.4	-0.3	-1.7	-0.3	50 30	30	30	30	30	30
Toluene-d8 (Surr)	0.1 -1.6	0.2	0.7	0.2	0.3	0.0	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-0.9 -0.3	-0.2	1.4	-0.1	-0.1	0.2	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X12.D
Lims ID: IC std7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 27-Jul-2021 19:35:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0035331-012
Misc. Info.: IC STD7
Operator ID: kas02648 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 05-Aug-2021 16:12:22 Calib Date: 27-Jul-2021 21:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1675

First Level Reviewer: campbellme Date: 28-Jul-2021 00:05:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.953	1.934	0.019	99	1253546	25.0	25.7	
5 Chloromethane	50	2.148	2.136	0.012	99	1425192	25.0	23.4	
7 Butadiene	39	2.257	2.245	0.012	92	1483329	25.0	22.9	
8 Vinyl chloride	62	2.264	2.251	0.013	98	1472364	25.0	24.9	
9 Bromomethane	94	2.581	2.568	0.013	90	1027363	25.0	24.3	
10 Chloroethane	64	2.660	2.648	0.012	100	870537	25.0	24.7	
12 Dichlorofluoromethane	67	2.904	2.892	0.012	97	2006252	25.0	24.5	
13 Trichlorofluoromethane	101	2.971	2.959	0.012	98	1896898	25.0	25.0	
15 Ethyl ether	59	3.196	3.190	0.006	92	963484	25.0	25.1	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.300	3.288	0.012	92	1384134	25.0	24.6	
18 Acrolein	56	3.379	3.367	0.012	100	7310070	1250.0	1250.4	
19 1,1-Dichloroethene	96	3.519	3.501	0.018	98	1024792	25.0	25.2	
20 112TCTFE	101	3.538	3.532	0.006	91	1142818	25.0	25.9	
21 Acetone	43	3.568	3.550	0.018	100	1698335	250.0	237.8	
23 Iodomethane	142	3.708	3.696	0.012	98	1936349	25.0	25.1	
24 Ethyl bromide	108	3.727	3.715	0.012	98	915021	25.0	25.3	
22 Isopropyl alcohol	45	3.830	3.800	0.030	94	636474	500.0	554.3	
25 Carbon disulfide	76	3.830	3.806	0.024	99	3652913	25.0	25.9	
27 Methyl acetate	43	3.958	3.934	0.024	97	570825	25.0	26.2	M
28 3-Chloro-1-propene	41	3.971	3.965	0.006	93	1760283	25.0	25.3	
29 Methylene Chloride	84	4.166	4.154	0.012	92	1155642	25.0	24.7	
* 30 t-Butyl alcohol-d10 (IS)	65	4.275	4.257	0.018	98	137853	50.0	50.0	
31 2-Methyl-2-propanol	59	4.397	4.367	0.030	99	1492417	500.0	631.4	
32 Acrylonitrile	53	4.519	4.501	0.018	98	655106	62.5	65.9	
33 Methyl tert-butyl ether	73	4.568	4.550	0.018	90	2994194	25.0	25.4	
34 trans-1,2-Dichloroethene	96	4.568	4.556	0.012	100	1173294	25.0	25.8	
35 Hexane	57	4.989	4.983	0.006	92	1800233	25.0	27.3	
37 1,1-Dichloroethane	63	5.232	5.226	0.006	96	2037094	25.0	25.4	
38 Isopropyl ether	45	5.293	5.287	0.006	94	3801082	25.0	25.7	
39 2-Chloro-1,3-butadiene	53	5.342	5.336	0.006	90	1747556	25.0	26.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.836	5.824	0.012	98	3463336	25.0	25.7	
41 2-Butanone (MEK)	43	6.062	6.043	0.019	100	3517461	250.0	256.9	
42 cis-1,2-Dichloroethene	96	6.068	6.062	0.006	81	1297682	25.0	25.6	
43 2,2-Dichloropropane	77	6.086	6.080	0.006	89	1566148	25.0	26.4	
45 Propionitrile	54	6.165	6.153	0.012	99	1764071	500.0	500.2	
S 46 1,2-Dichloroethene, Total	100				0			51.3	
48 Methacrylonitrile	67	6.360	6.348	0.012	92	3531950	250.0	267.7	
49 Chlorobromomethane	128	6.403	6.391	0.012	94	605697	25.0	25.8	
50 Tetrahydrofuran	71	6.421	6.409	0.012	86	526089	125.0	135.1	
51 Chloroform	83	6.555	6.549	0.006	93	2052889	25.0	25.7	
$ 52 Dibromofluoromethane (Surr)	113	6.769	6.763	0.006	95	485776	10.0	9.99	
53 1,1,1-Trichloroethane	97	6.775	6.769	0.006	98	1806207	25.0	26.3	
54 Cyclohexane	56	6.872	6.866	0.006	90	2182074	25.0	27.3	
56 Carbon tetrachloride	117	6.982	6.976	0.006	96	1609545	25.0	26.6	
57 1,1-Dichloropropene	75	6.994	6.982	0.012	98	1655371	25.0	26.5	
58 Isobutyl alcohol	41	7.202	7.196	0.006	94	1236400	1250.0	1368.8	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.226	7.214	0.012	93	108065	10.0	10.0	
60 Benzene	78	7.256	7.250	0.006	96	4846041	25.0	25.5	
61 1,2-Dichloroethane	62	7.330	7.318	0.012	97	1326300	25.0	24.8	
63 Tert-amyl methyl ether	73	7.445	7.446	-0.001	99	3273561	25.0	25.8	
* 64 Fluorobenzene (IS)	96	7.665	7.659	0.006	99	1951930	10.0	10.0	
65 n-Heptane	43	7.671	7.665	0.006	93	1929385	25.0	26.7	
67 n-Butanol	56	8.080	8.086	-0.007	88	1754885	2187.5	2376.4	
68 Trichloroethene	95	8.140	8.134	0.006	97	1293471	25.0	25.8	
69 Methylcyclohexane	83	8.445	8.439	0.006	92	2359075	25.0	27.5	
70 1,2-Dichloropropane	63	8.476	8.470	0.006	89	1287040	25.0	26.3	
71 2-ethoxy-2-methyl butane	87	8.482	8.476	0.006	93	1886522	25.0	26.7	
72 Methyl methacrylate	69	8.561	8.555	0.006	92	704239	25.0	28.1	
74 Dibromomethane	93	8.585	8.579	0.006	94	637054	25.0	26.0	
73 1,4-Dioxane	88	8.634	8.653	-0.019	89	168647	1250.0	1280.7	M
76 Dichlorobromomethane	83	8.823	8.817	0.006	100	1556304	25.0	26.6	
77 2-Nitropropane	41	9.104	9.104	0.000	97	977744	125.0	137.9	
80 1-Bromo-2-chloroethane	63	9.213	9.207	0.006	98	1367771	25.0	25.7	
81 cis-1,3-Dichloropropene	75	9.372	9.366	0.006	97	2012913	25.0	27.7	
82 4-Methyl-2-pentanone (MIBK)	43	9.555	9.549	0.006	96	9038373	250.0	269.0	
$ 83 Toluene-d8 (Surr)	98	9.683	9.677	0.006	93	1995381	10.0	9.84	
84 Toluene	92	9.756	9.756	0.000	98	3182569	25.0	25.6	
96 trans-1,3-Dichloropropene	75	10.018	10.018	0.000	92	1712803	25.0	27.6	
S 97 1,3-Dichloropropene, Total	100				0			55.3	
98 Ethyl methacrylate	69	10.085	10.079	0.006	89	1493298	25.0	27.8	
99 1,1,2-Trichloroethane	97	10.225	10.219	0.006	90	971609	25.0	25.6	
100 Tetrachloroethene	166	10.311	10.305	0.006	98	1557790	25.0	26.3	
101 1,3-Dichloropropane	76	10.390	10.384	0.006	89	1630413	25.0	25.4	
102 2-Hexanone	43	10.445	10.445	0.000	96	6646341	250.0	272.4	
104 Chlorodibromomethane	129	10.603	10.597	0.006	90	1232439	25.0	26.9	
105 Ethylene Dibromide	107	10.713	10.707	0.006	98	962305	25.0	26.1	
* 106 Chlorobenzene-d5 (IS)	117	11.146	11.140	0.006	84	1556461	10.0	10.0	
107 1-Chlorohexane	91	11.152	11.152	0.000	98	1840716	25.0	25.6	
108 Chlorobenzene	112	11.170	11.170	0.000	98	3647731	25.0	25.4	
S 109 Xylenes, Total	106				0			79.6	
110 1,1,1,2-Tetrachloroethane	131	11.256	11.250	0.006	97	1321338	25.0	26.7	
111 Ethylbenzene	91	11.256	11.256	0.000	98	6257658	25.0	26.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
112 m-Xylene & p-Xylene	106	11.372	11.372	0.000	99	4945575	50.0	52.9	
113 o-Xylene	106	11.701	11.701	0.000	96	2471775	25.0	26.7	
114 Styrene	104	11.719	11.719	0.000	95	4223576	25.0	27.1	
115 Bromoform	173	11.871	11.872	-0.001	98	818655	25.0	27.8	
116 Isopropylbenzene	105	12.006	12.000	0.006	95	6294550	25.0	26.7	
$ 119 4-Bromofluorobenzene (Surr)	95	12.146	12.146	0.000	94	738716	10.0	9.97	
120 1,1,2,2-Tetrachloroethane	83	12.249	12.250	-0.001	92	1301500	25.0	26.1	
121 Bromobenzene	156	12.262	12.262	0.000	95	1627659	25.0	25.7	
122 trans-1,4-Dichloro-2-butene	53	12.280	12.274	0.006	92	3446796	250.0	282.1	
123 1,2,3-Trichloropropane	110	12.298	12.292	0.006	81	348849	25.0	25.7	
124 N-Propylbenzene	91	12.335	12.329	0.006	99	7485306	25.0	25.9	
125 2-Chlorotoluene	126	12.408	12.408	0.000	97	1529310	25.0	26.0	
126 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	94	5471729	25.0	26.4	
127 4-Chlorotoluene	126	12.499	12.499	0.000	97	1588139	25.0	25.8	
128 tert-Butylbenzene	134	12.713	12.707	0.006	93	1214603	25.0	27.1	
129 Pentachloroethane	167	12.743	12.743	0.000	94	1077865	25.0	27.2	
130 1,2,4-Trimethylbenzene	105	12.749	12.749	0.000	97	5703646	25.0	26.6	
131 sec-Butylbenzene	105	12.871	12.871	0.000	94	7032509	25.0	26.6	
132 1,3-Dichlorobenzene	146	12.975	12.969	0.006	99	3364224	25.0	26.2	
133 4-Isopropyltoluene	119	12.981	12.981	0.000	97	6285970	25.0	27.3	
* 134 1,4-Dichlorobenzene-d4	152	13.030	13.023	0.007	93	914789	10.0	10.0	
135 1,4-Dichlorobenzene	146	13.048	13.042	0.006	96	3368113	25.0	25.4	
136 1,2,3-Trimethylbenzene	120	13.054	13.054	0.000	98	2596038	25.0	26.3	
137 Benzyl chloride	126	13.121	13.121	0.000	98	569915	25.0	29.6	
138 p-Diethylbenzene	119	13.182	13.182	0.000	92	3841873	25.0	27.0	
139 n-Butylbenzene	92	13.274	13.274	0.000	97	3221534	25.0	26.5	
140 1,2-Dichlorobenzene	146	13.304	13.304	0.000	99	3141899	25.0	25.7	
142 1,2-Dibromo-3-Chloropropane	155	13.847	13.847	0.000	90	218520	25.0	27.2	
143 1,3,5-Trichlorobenzene	180	13.969	13.969	0.000	98	2778810	25.0	26.0	
144 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	2544095	25.0	26.1	
145 Hexachlorobutadiene	225	14.475	14.475	0.000	96	1268156	25.0	26.2	
146 Naphthalene	128	14.572	14.578	-0.006	97	4624623	25.0	26.9	
147 1,2,3-Trichlorobenzene	180	14.718	14.719	-0.001	96	2246935	25.0	25.8	
148 2-Methylnaphthalene	142	15.334	15.340	-0.006	92	3050199	25.0	28.4	
160 Pentane	43	2.989	2.983	0.006	98	1931343	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00011	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00018	Amount Added: 25.00	Units: uL	
MSV_LL_#2_826_00011	Amount Added: 25.00	Units: uL	
MSV_29_826ISS_00020	Amount Added: 1.00	Units: uL	Run Reagent

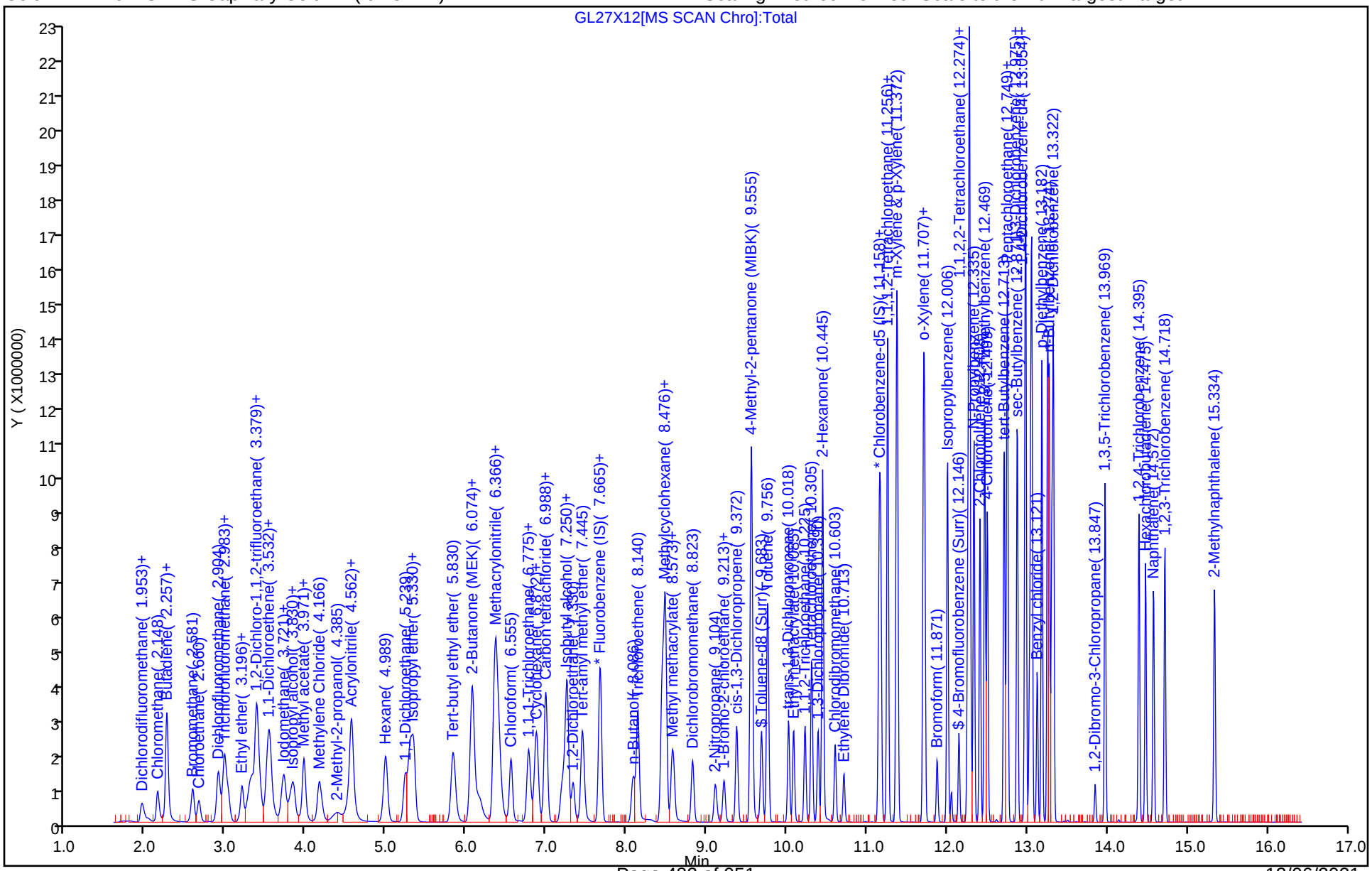
Report Date: 05-Aug-2021 16:12:23 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X12.D

Injection Date:	27-Jul-2021 19:35:30	Instrument ID:	16334	Operator ID:	kas02648
Lims ID:	IC std7			Worklist Smp#:	12
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

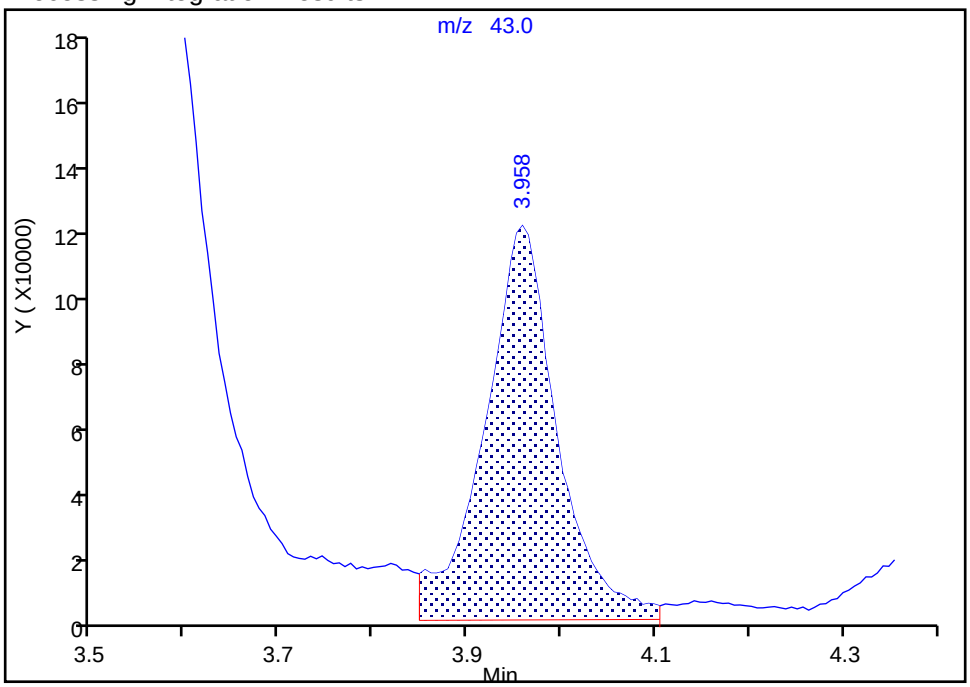
Data File:	\\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X12.D				
Injection Date:	27-Jul-2021 19:35:30	Instrument ID:	16334		
Lims ID:	IC std7				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

27 Methyl acetate, CAS: 79-20-9

Signal: 1

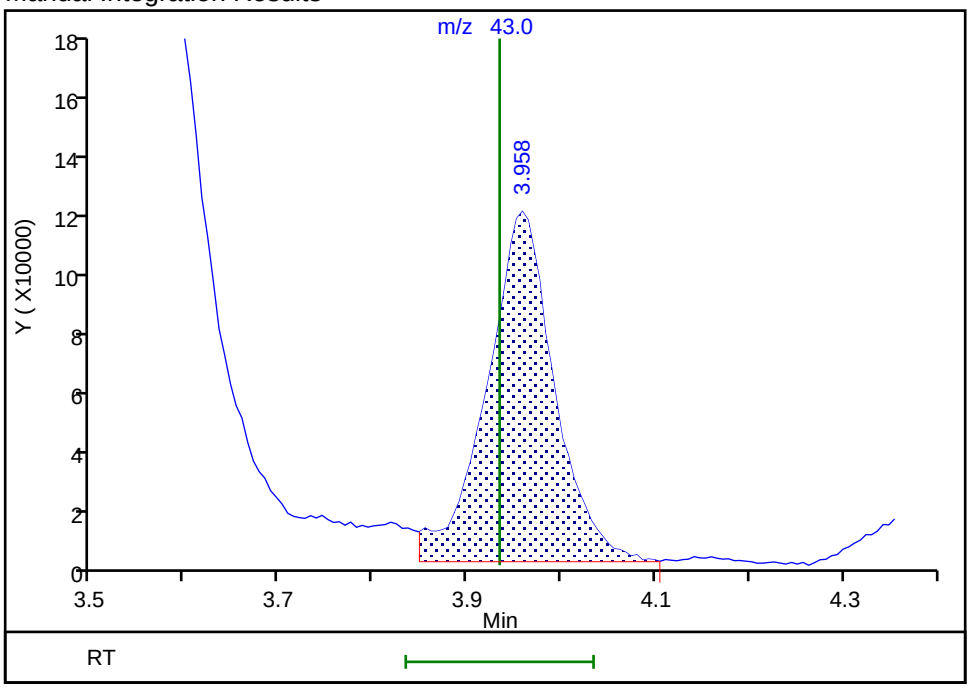
Processing Integration Results

RT: 3.96
Area: 634578
Amount: 27.703697
Amount Units: ug/l



Manual Integration Results

RT: 3.96
Area: 570825
Amount: 26.181246
Amount Units: ug/l



Reviewer: spositok, 28-Jul-2021 11:51:39
Audit Action: Assigned New Baseline Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

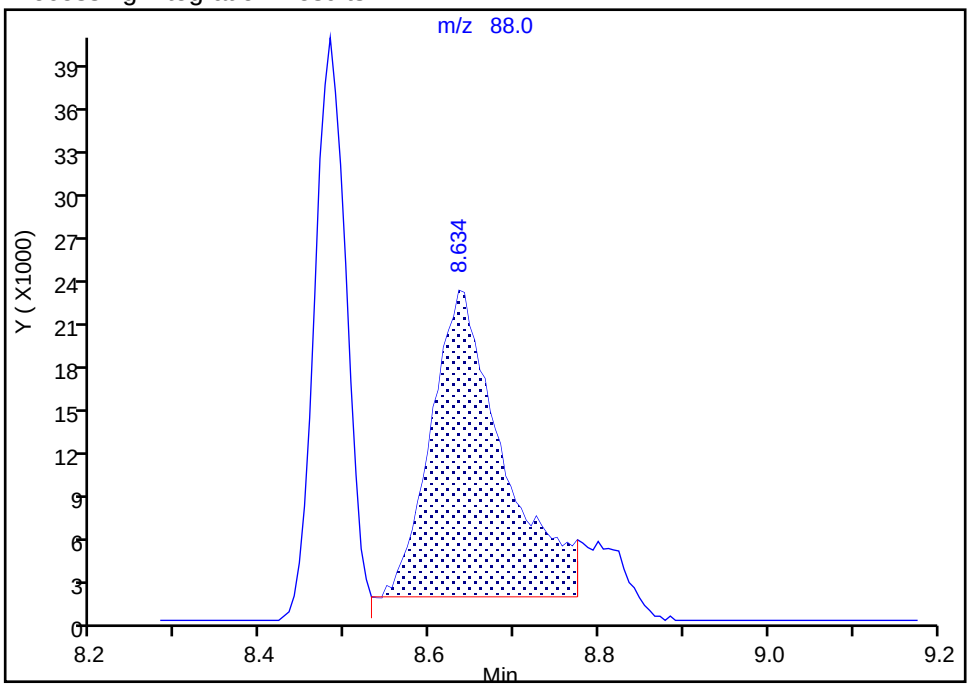
Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X12.D
Injection Date: 27-Jul-2021 19:35:30 Instrument ID: 16334
Lims ID: IC std7
Client ID:
Operator ID: kas02648 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

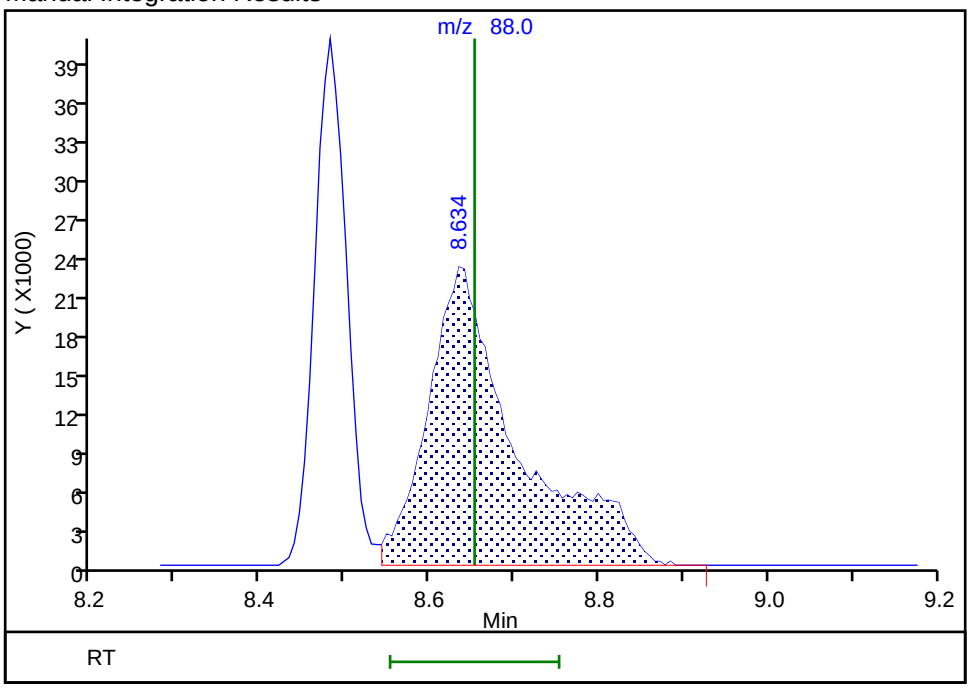
Processing Integration Results

RT: 8.63
Area: 125805
Amount: 1263.6556
Amount Units: ug/l



Manual Integration Results

RT: 8.63
Area: 168647
Amount: 1280.6576
Amount Units: ug/l



Reviewer: spositok, 28-Jul-2021 11:57:03
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X13.D
Lims ID: ICIS std6
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 27-Jul-2021 19:57:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0035331-013
Misc. Info.: ICIS STD6
Operator ID: kas02648 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 05-Aug-2021 16:12:29 Calib Date: 27-Jul-2021 21:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1675

First Level Reviewer: spositok Date: 28-Jul-2021 08:05:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.940	1.940	0.000	99	516723	10.0	10.6	
5 Chloromethane	50	2.136	2.136	0.000	99	585078	10.0	9.59	
7 Butadiene	39	2.251	2.251	0.000	91	606472	10.0	9.34	
8 Vinyl chloride	62	2.257	2.257	0.000	98	592530	10.0	10.0	
9 Bromomethane	94	2.574	2.574	0.000	90	421592	10.0	9.96	
10 Chloroethane	64	2.654	2.654	0.000	100	354649	10.0	10.0	
12 Dichlorofluoromethane	67	2.898	2.898	0.000	97	815276	10.0	9.93	
13 Trichlorofluoromethane	101	2.959	2.959	0.000	98	773951	10.0	10.2	
15 Ethyl ether	59	3.190	3.190	0.000	91	393590	10.0	10.2	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.294	3.294	0.000	91	561590	10.0	9.95	
18 Acrolein	56	3.373	3.373	0.000	99	3112860	500.0	511.0	
19 1,1-Dichloroethene	96	3.507	3.507	0.000	98	425643	10.0	10.4	
20 112TCTFE	101	3.532	3.532	0.000	91	469934	10.0	10.6	
21 Acetone	43	3.556	3.556	0.000	100	734480	100.0	98.7	
23 Iodomethane	142	3.696	3.696	0.000	98	795281	10.0	10.3	
24 Ethyl bromide	108	3.721	3.721	0.000	98	373018	10.0	10.3	
22 Isopropyl alcohol	45	3.812	3.812	0.000	94	245533	200.0	213.3	
25 Carbon disulfide	76	3.824	3.824	0.000	99	1470951	10.0	10.4	
27 Methyl acetate	43	3.946	3.946	0.000	98	232867	10.0	10.3	M
28 3-Chloro-1-propene	41	3.964	3.964	0.000	93	716532	10.0	10.3	
29 Methylene Chloride	84	4.153	4.153	0.000	91	476324	10.0	10.2	
* 30 t-Butyl alcohol-d10 (IS)	65	4.251	4.251	0.000	98	143636	50.0	50.0	
31 2-Methyl-2-propanol	59	4.367	4.367	0.000	98	495911	200.0	201.3	
32 Acrylonitrile	53	4.513	4.513	0.000	98	277249	25.0	26.8	
33 Methyl tert-butyl ether	73	4.556	4.556	0.000	91	1242395	10.0	10.5	
34 trans-1,2-Dichloroethene	96	4.562	4.562	0.000	100	479749	10.0	10.5	
35 Hexane	57	4.983	4.983	0.000	92	715082	10.0	10.8	
37 1,1-Dichloroethane	63	5.226	5.226	0.000	96	825927	10.0	10.3	
38 Isopropyl ether	45	5.293	5.293	0.000	94	1551125	10.0	10.5	
39 2-Chloro-1,3-butadiene	53	5.336	5.336	0.000	90	706249	10.0	10.7	

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	5.830	5.830	0.000	98	1423423	10.0	10.5	
41 2-Butanone (MEK)	43	6.043	6.043	0.000	100	1486502	100.0	104.2	
42 cis-1,2-Dichloroethene	96	6.068	6.068	0.000	82	521666	10.0	10.3	
43 2,2-Dichloropropane	77	6.080	6.080	0.000	86	634495	10.0	10.7	
45 Propionitrile	54	6.153	6.153	0.000	99	796171	200.0	216.7	
48 Methacrylonitrile	67	6.342	6.342	0.000	92	1447001	100.0	105.2	
49 Chlorobromomethane	128	6.391	6.391	0.000	94	247355	10.0	10.5	
50 Tetrahydrofuran	71	6.415	6.415	0.000	85	221001	50.0	54.5	
51 Chloroform	83	6.549	6.549	0.000	93	830529	10.0	10.4	
$ 52 Dibromofluoromethane (Surr)	113	6.763	6.763	0.000	94	487955	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.775	6.775	0.000	98	719579	10.0	10.4	
54 Cyclohexane	56	6.866	6.866	0.000	90	873813	10.0	10.9	
56 Carbon tetrachloride	117	6.982	6.982	0.000	97	642568	10.0	10.6	
57 1,1-Dichloropropene	75	6.988	6.988	0.000	97	661411	10.0	10.6	
58 Isobutyl alcohol	41	7.189	7.189	0.000	93	510385	500.0	563.7	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.220	7.220	0.000	91	108066	10.0	9.97	
60 Benzene	78	7.250	7.250	0.000	97	1950769	10.0	10.2	
61 1,2-Dichloroethane	62	7.324	7.324	0.000	97	528398	10.0	9.86	
63 Tert-amyl methyl ether	73	7.445	7.445	0.000	99	1338549	10.0	10.5	
* 64 Fluorobenzene (IS)	96	7.659	7.659	0.000	99	1956692	10.0	10.0	
65 n-Heptane	43	7.665	7.665	0.000	94	755469	10.0	10.4	
67 n-Butanol	56	8.079	8.079	0.000	88	765480	875.0	994.9	
68 Trichloroethene	95	8.134	8.134	0.000	97	516547	10.0	10.3	
69 Methylcyclohexane	83	8.439	8.439	0.000	91	941824	10.0	11.0	
70 1,2-Dichloropropane	63	8.470	8.470	0.000	87	514255	10.0	10.5	
71 2-ethoxy-2-methyl butane	87	8.482	8.482	0.000	94	755969	10.0	10.7	
72 Methyl methacrylate	69	8.555	8.555	0.000	92	284538	10.0	10.9	
74 Dibromomethane	93	8.579	8.579	0.000	93	253858	10.0	10.3	
73 1,4-Dioxane	88	8.646	8.646	0.000	92	74329	500.0	541.7	M
76 Dichlorobromomethane	83	8.817	8.817	0.000	100	613045	10.0	10.5	
77 2-Nitropropane	41	9.104	9.104	0.000	97	396735	50.0	53.7	
80 1-Bromo-2-chloroethane	63	9.207	9.207	0.000	98	541039	10.0	10.1	
81 cis-1,3-Dichloropropene	75	9.366	9.366	0.000	97	787924	10.0	10.8	
82 4-Methyl-2-pentanone (MIBK)	43	9.549	9.549	0.000	96	3748028	100.0	107.1	
$ 83 Toluene-d8 (Surr)	98	9.677	9.677	0.000	93	2004602	10.0	10.0	
84 Toluene	92	9.756	9.756	0.000	98	1263648	10.0	10.3	
96 trans-1,3-Dichloropropene	75	10.018	10.018	0.000	92	668411	10.0	10.9	
98 Ethyl methacrylate	69	10.079	10.079	0.000	90	589066	10.0	11.1	
99 1,1,2-Trichloroethane	97	10.225	10.225	0.000	90	386158	10.0	10.3	
100 Tetrachloroethene	166	10.305	10.305	0.000	97	611154	10.0	10.4	
101 1,3-Dichloropropane	76	10.384	10.384	0.000	89	657511	10.0	10.4	
102 2-Hexanone	43	10.445	10.445	0.000	96	2720182	100.0	107.0	
104 Chlorodibromomethane	129	10.597	10.597	0.000	90	485191	10.0	10.7	
105 Ethylene Dibromide	107	10.707	10.707	0.000	98	384909	10.0	10.6	
* 106 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	85	1539325	10.0	10.0	
107 1-Chlorohexane	91	11.152	11.152	0.000	98	719936	10.0	10.1	
108 Chlorobenzene	112	11.170	11.170	0.000	96	1465495	10.0	10.3	
110 1,1,1,2-Tetrachloroethane	131	11.250	11.250	0.000	96	518542	10.0	10.6	
111 Ethylbenzene	91	11.256	11.256	0.000	98	2471291	10.0	10.4	
112 m-Xylene & p-Xylene	106	11.372	11.372	0.000	100	1954841	20.0	21.1	
113 o-Xylene	106	11.701	11.701	0.000	97	972087	10.0	10.6	
114 Styrene	104	11.719	11.719	0.000	95	1666639	10.0	10.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Bromoform	173	11.871	11.871	0.000	98	320058	10.0	11.0	
116 Isopropylbenzene	105	12.006	12.006	0.000	95	2513151	10.0	10.8	
$ 119 4-Bromofluorobenzene (Surr)	95	12.146	12.146	0.000	94	734538	10.0	10.0	
120 1,1,2,2-Tetrachloroethane	83	12.249	12.249	0.000	92	519410	10.0	10.6	
121 Bromobenzene	156	12.262	12.262	0.000	95	640968	10.0	10.3	
122 trans-1,4-Dichloro-2-butene	53	12.274	12.274	0.000	91	1364596	100.0	107.2	
123 1,2,3-Trichloropropane	110	12.298	12.298	0.000	82	139728	10.0	10.4	
124 N-Propylbenzene	91	12.329	12.329	0.000	99	2995210	10.0	10.5	
125 2-Chlorotoluene	126	12.408	12.408	0.000	97	608930	10.0	10.5	
126 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	94	2169631	10.0	10.6	
127 4-Chlorotoluene	126	12.499	12.499	0.000	97	629769	10.0	10.4	
128 tert-Butylbenzene	134	12.713	12.713	0.000	93	476799	10.0	10.8	
129 Pentachloroethane	167	12.743	12.743	0.000	95	418106	10.0	10.7	
130 1,2,4-Trimethylbenzene	105	12.749	12.749	0.000	97	2269629	10.0	10.7	
131 sec-Butylbenzene	105	12.871	12.871	0.000	94	2806118	10.0	10.8	
132 1,3-Dichlorobenzene	146	12.969	12.969	0.000	99	1311314	10.0	10.4	
133 4-Isopropyltoluene	119	12.981	12.981	0.000	97	2471640	10.0	10.9	
* 134 1,4-Dichlorobenzene-d4	152	13.024	13.024	0.000	97	901681	10.0	10.0	
135 1,4-Dichlorobenzene	146	13.042	13.042	0.000	96	1338790	10.0	10.3	
136 1,2,3-Trimethylbenzene	120	13.054	13.054	0.000	98	1013920	10.0	10.4	
137 Benzyl chloride	126	13.121	13.121	0.000	98	218698	10.0	11.5	
138 p-Diethylbenzene	119	13.182	13.182	0.000	92	1515713	10.0	10.8	
139 n-Butylbenzene	92	13.274	13.274	0.000	98	1277757	10.0	10.7	
140 1,2-Dichlorobenzene	146	13.304	13.304	0.000	99	1241894	10.0	10.3	
142 1,2-Dibromo-3-Chloropropane	155	13.847	13.847	0.000	90	87076	10.0	11.0	
143 1,3,5-Trichlorobenzene	180	13.969	13.969	0.000	98	1104240	10.0	10.5	
144 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	1021250	10.0	10.6	
145 Hexachlorobutadiene	225	14.475	14.475	0.000	96	508190	10.0	10.7	
146 Naphthalene	128	14.572	14.572	0.000	97	1867226	10.0	11.0	
147 1,2,3-Trichlorobenzene	180	14.718	14.718	0.000	96	908913	10.0	10.6	
148 2-Methylnaphthalene	142	15.334	15.334	0.000	92	1250227	10.0	11.8	
160 Pentane	43	2.983	2.983	0.000	96	789015	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00011	Amount Added: 10.00	Units: uL	
MSV_LL_GAS826_00018	Amount Added: 10.00	Units: uL	
MSV_LL_#2_826_00011	Amount Added: 10.00	Units: uL	
MSV_29_826ISS_00020	Amount Added: 1.00	Units: uL	Run Reagent

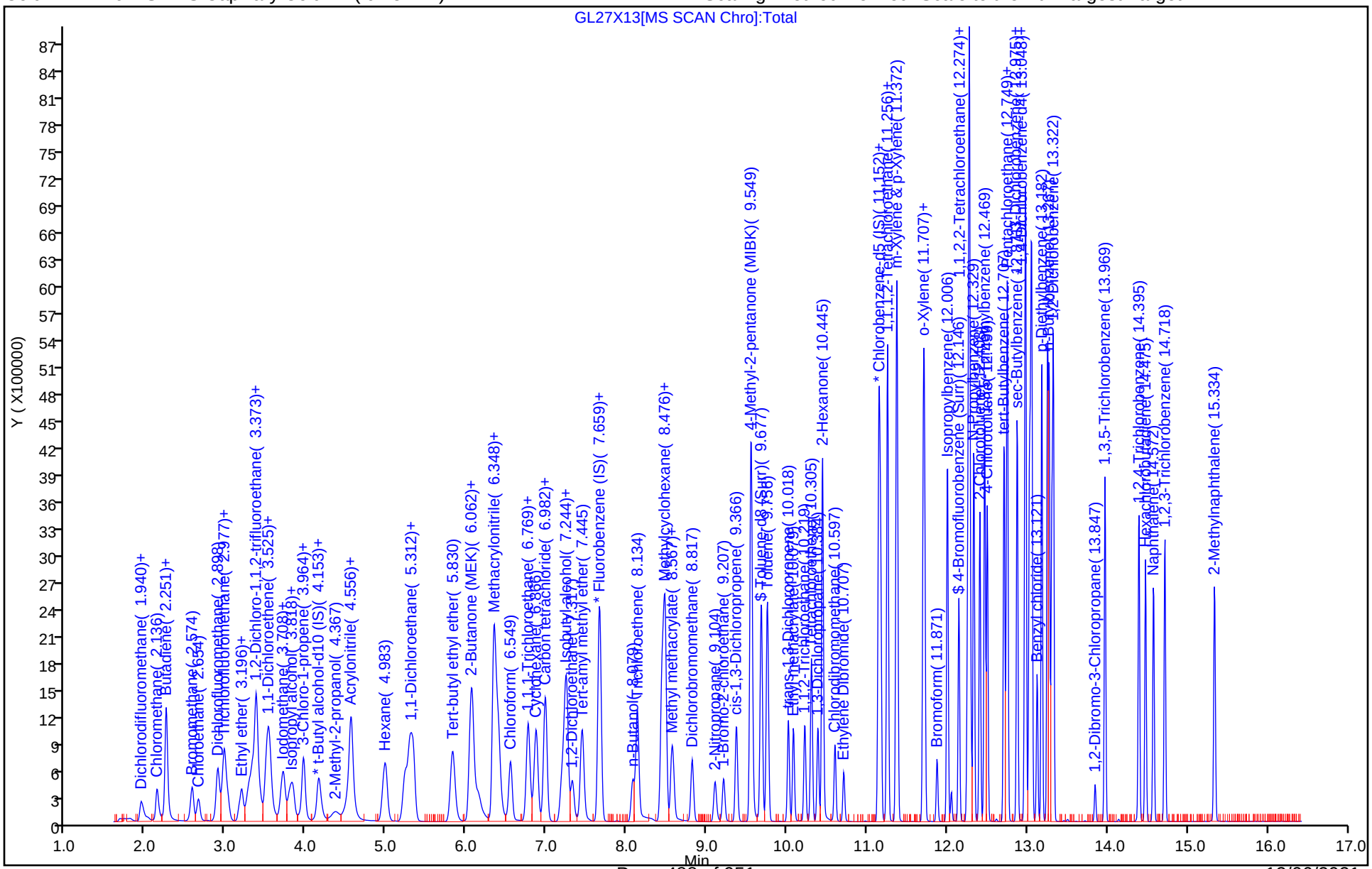
Report Date: 05-Aug-2021 16:12:30 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X13.D

Injection Date:	27-Jul-2021 19:57:30	Instrument ID:	16334	Operator ID:	kas02648
Lims ID:	ICIS std6			Worklist Smp#:	13
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

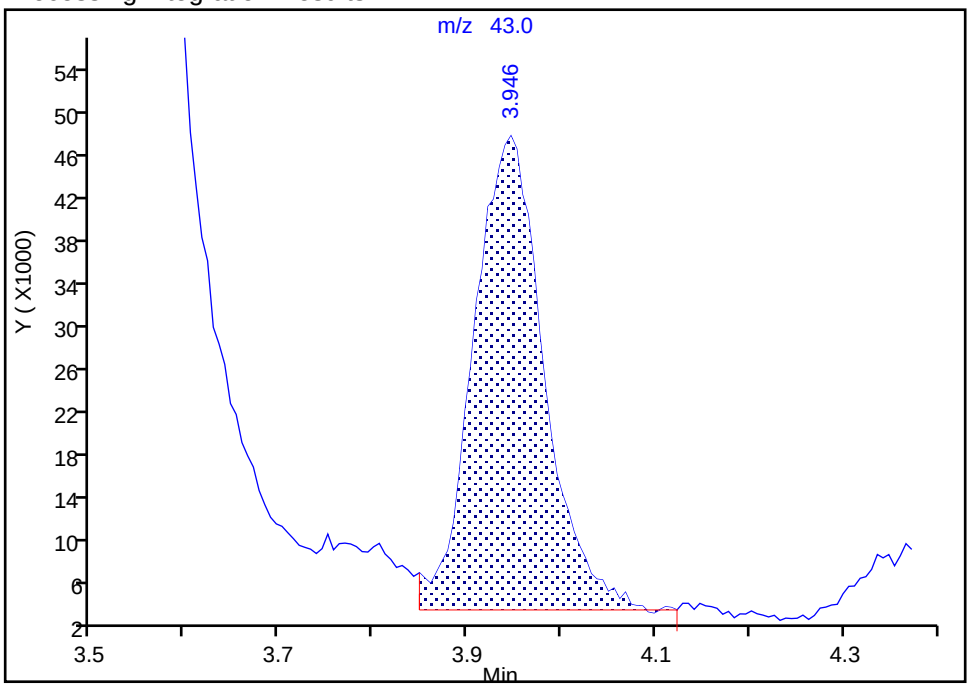
Data File:	\\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X13.D				
Injection Date:	27-Jul-2021 19:57:30	Instrument ID:	16334		
Lims ID:	ICIS std6				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

27 Methyl acetate, CAS: 79-20-9

Signal: 1

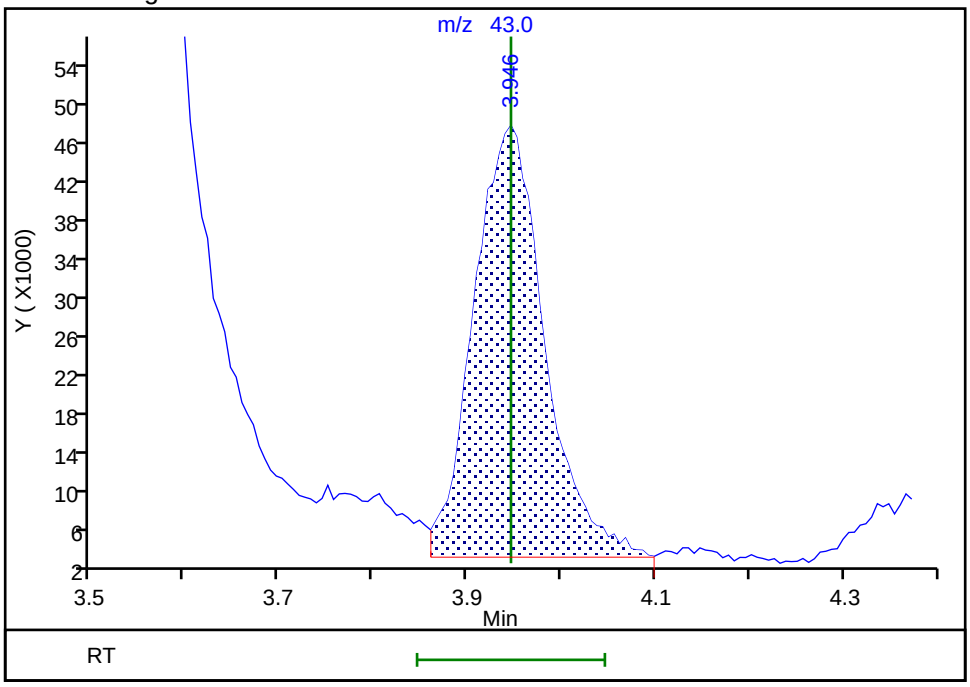
Processing Integration Results

RT: 3.95
Area: 230357
Amount: 9.807758
Amount Units: ug/l



Manual Integration Results

RT: 3.95
Area: 232867
Amount: 10.250574
Amount Units: ug/l



Reviewer: spositok, 28-Jul-2021 11:53:03

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

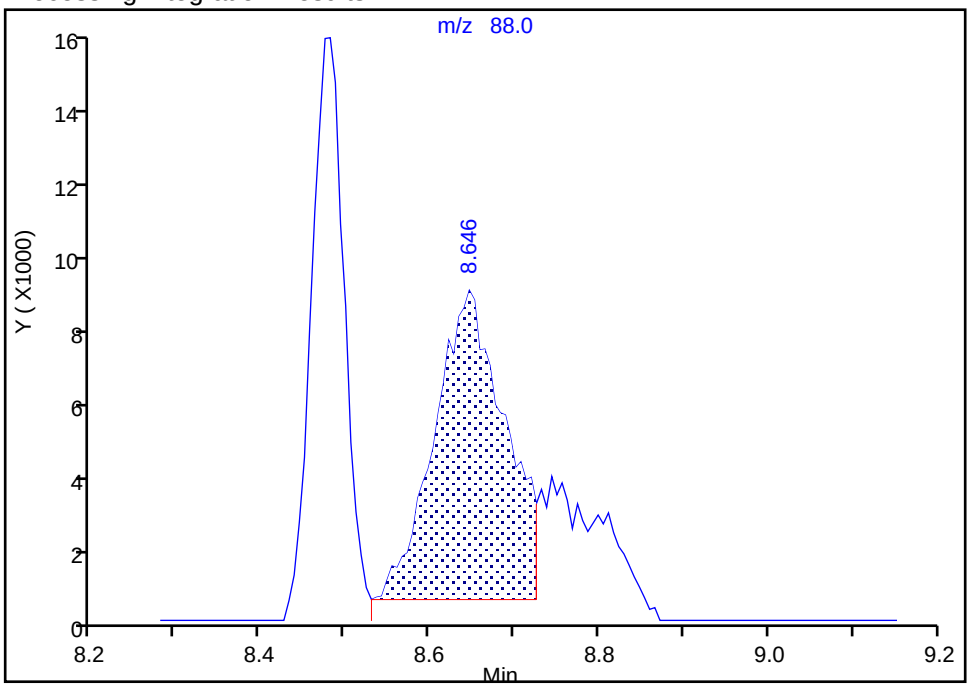
Data File:	\\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X13.D				
Injection Date:	27-Jul-2021 19:57:30	Instrument ID:	16334		
Lims ID:	ICIS std6				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

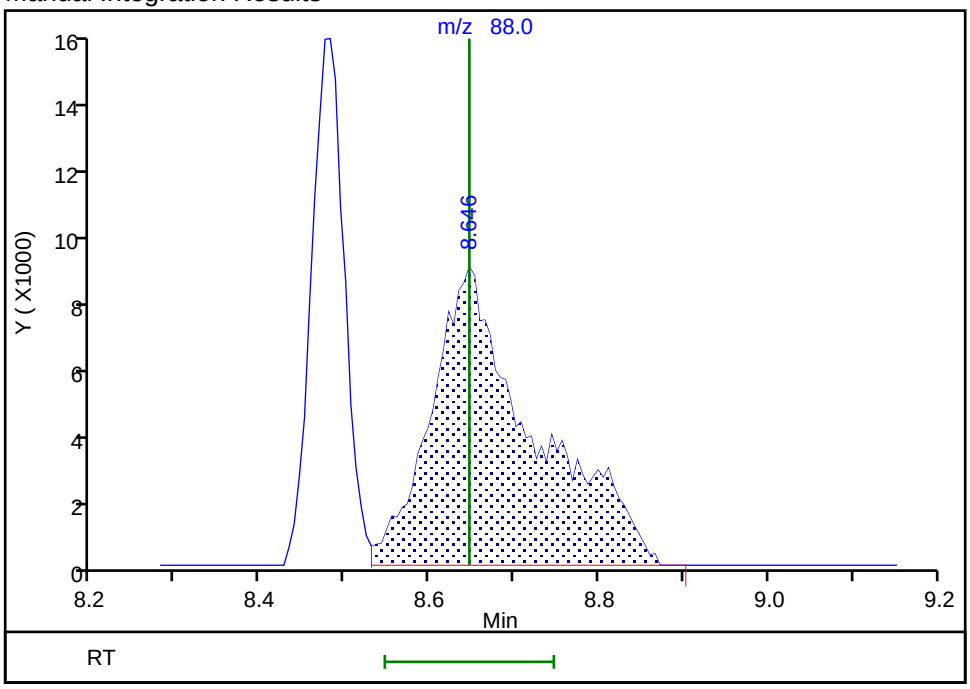
Processing Integration Results

RT: 8.65
Area: 48143
Amount: 506.7462
Amount Units: ug/l



Manual Integration Results

RT: 8.65
Area: 74329
Amount: 541.7085
Amount Units: ug/l



Reviewer: spositok, 28-Jul-2021 11:56:16

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X14.D
Lims ID: IC std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 27-Jul-2021 20:19:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0035331-014
Misc. Info.: IC STD5
Operator ID: kas02648 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 05-Aug-2021 16:12:36 Calib Date: 27-Jul-2021 21:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1675

First Level Reviewer: spositok Date: 28-Jul-2021 11:55:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.940	1.940	0.000	99	249774	5.00	5.11	
5 Chloromethane	50	2.135	2.136	-0.001	99	296377	5.00	4.85	
7 Butadiene	39	2.245	2.251	-0.006	92	315859	5.00	4.86	
8 Vinyl chloride	62	2.251	2.257	-0.006	98	302193	5.00	5.10	
9 Bromomethane	94	2.568	2.574	-0.006	90	210438	5.00	4.97	
10 Chloroethane	64	2.648	2.654	-0.006	99	177677	5.00	5.02	
12 Dichlorofluoromethane	67	2.891	2.898	-0.007	97	409195	5.00	4.98	
13 Trichlorofluoromethane	101	2.958	2.959	-0.001	98	387502	5.00	5.10	
15 Ethyl ether	59	3.190	3.190	0.000	91	196735	5.00	5.11	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.288	3.294	-0.006	92	281133	5.00	4.98	
18 Acrolein	56	3.373	3.373	0.000	100	1506352	250.0	252.8	
19 1,1-Dichloroethene	96	3.495	3.507	-0.012	97	209672	5.00	5.13	
20 112TCTFE	101	3.538	3.532	0.006	92	230841	5.00	5.21	
21 Acetone	43	3.562	3.556	0.006	100	319840	50.0	43.9	
23 Iodomethane	142	3.690	3.696	-0.006	98	394336	5.00	5.10	
24 Ethyl bromide	108	3.714	3.721	-0.007	98	186316	5.00	5.13	
22 Isopropyl alcohol	45	3.806	3.812	-0.006	94	109259	100.0	94.8	
25 Carbon disulfide	76	3.818	3.824	-0.006	99	723844	5.00	5.12	
27 Methyl acetate	43	3.958	3.946	0.012	37	110528	5.00	4.97	
28 3-Chloro-1-propene	41	3.964	3.964	0.000	94	353062	5.00	5.06	
29 Methylene Chloride	84	4.159	4.153	0.006	92	238472	5.00	5.09	
* 30 t-Butyl alcohol-d10 (IS)	65	4.245	4.251	-0.006	96	140518	50.0	50.0	
31 2-Methyl-2-propanol	59	4.373	4.367	0.006	99	235836	100.0	97.9	
32 Acrylonitrile	53	4.507	4.513	-0.006	100	138229	12.5	13.7	
33 Methyl tert-butyl ether	73	4.556	4.556	0.000	95	617188	5.00	5.22	
34 trans-1,2-Dichloroethene	96	4.556	4.562	-0.006	99	234832	5.00	5.14	
35 Hexane	57	4.989	4.983	0.007	92	353278	5.00	5.35	
37 1,1-Dichloroethane	63	5.226	5.226	0.000	96	408393	5.00	5.08	
38 Isopropyl ether	45	5.287	5.293	-0.006	94	766313	5.00	5.17	
39 2-Chloro-1,3-butadiene	53	5.336	5.336	0.000	90	348522	5.00	5.29	

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	5.824	5.830	-0.006	98	702523	5.00	5.20	
41 2-Butanone (MEK)	43	6.049	6.043	0.006	100	712377	50.0	51.1	
42 cis-1,2-Dichloroethene	96	6.068	6.068	0.000	81	260285	5.00	5.11	
43 2,2-Dichloropropane	77	6.080	6.080	0.000	87	310357	5.00	5.21	
45 Propionitrile	54	6.153	6.153	0.000	99	375827	100.0	104.6	
S 46 1,2-Dichloroethene, Total	100				0			10.2	
48 Methacrylonitrile	67	6.348	6.342	0.006	92	693298	50.0	51.5	
49 Chlorobromomethane	128	6.397	6.391	0.006	95	121185	5.00	5.14	
50 Tetrahydrofuran	71	6.409	6.415	-0.006	87	106807	25.0	26.9	
51 Chloroform	83	6.549	6.549	0.000	93	410725	5.00	5.13	
$ 52 Dibromofluoromethane (Surr)	113	6.769	6.763	0.006	94	487572	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.775	6.775	0.000	98	356100	5.00	5.17	
54 Cyclohexane	56	6.866	6.866	0.000	90	428403	5.00	5.33	
56 Carbon tetrachloride	117	6.982	6.982	0.000	96	314977	5.00	5.19	
57 1,1-Dichloropropene	75	6.988	6.988	0.000	98	324144	5.00	5.18	
58 Isobutyl alcohol	41	7.195	7.189	0.006	95	225001	250.0	248.2	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.220	7.220	0.000	88	106740	10.0	9.83	
60 Benzene	78	7.250	7.250	0.000	97	971741	5.00	5.09	
61 1,2-Dichloroethane	62	7.323	7.324	-0.001	97	260781	5.00	4.86	
63 Tert-amyl methyl ether	73	7.439	7.445	-0.006	99	664335	5.00	5.22	
* 64 Fluorobenzene (IS)	96	7.659	7.659	0.000	99	1958598	10.0	10.0	
65 n-Heptane	43	7.665	7.665	0.000	94	378028	5.00	5.21	
67 n-Butanol	56	8.079	8.079	0.000	89	327688	437.5	435.3	
68 Trichloroethene	95	8.134	8.134	0.000	98	256014	5.00	5.10	
69 Methylcyclohexane	83	8.439	8.439	0.000	90	460371	5.00	5.35	
70 1,2-Dichloropropane	63	8.470	8.470	0.000	91	254477	5.00	5.18	
71 2-ethoxy-2-methyl butane	87	8.476	8.482	-0.006	92	370435	5.00	5.22	
72 Methyl methacrylate	69	8.561	8.555	0.006	92	138502	5.00	5.41	
74 Dibromomethane	93	8.579	8.579	0.000	93	127594	5.00	5.18	
73 1,4-Dioxane	88	8.646	8.646	0.000	84	32843	250.0	244.7	M
76 Dichlorobromomethane	83	8.817	8.817	0.000	100	301385	5.00	5.14	
77 2-Nitropropane	41	9.104	9.104	0.000	98	192010	25.0	26.6	
80 1-Bromo-2-chloroethane	63	9.207	9.207	0.000	98	273867	5.00	5.12	
81 cis-1,3-Dichloropropene	75	9.372	9.366	0.006	97	388304	5.00	5.33	
82 4-Methyl-2-pentanone (MIBK)	43	9.555	9.549	0.006	96	1833544	50.0	53.5	
$ 83 Toluene-d8 (Surr)	98	9.683	9.677	0.006	94	2005076	10.0	10.0	
84 Toluene	92	9.756	9.756	0.000	98	632066	5.00	5.15	
96 trans-1,3-Dichloropropene	75	10.018	10.018	0.000	92	325124	5.00	5.31	
S 97 1,3-Dichloropropene, Total	100				0			10.6	
98 Ethyl methacrylate	69	10.079	10.079	0.000	90	286710	5.00	5.42	
99 1,1,2-Trichloroethane	97	10.225	10.225	0.000	89	195631	5.00	5.23	
100 Tetrachloroethene	166	10.305	10.305	0.000	97	301876	5.00	5.17	
101 1,3-Dichloropropane	76	10.384	10.384	0.000	90	324544	5.00	5.14	
102 2-Hexanone	43	10.445	10.445	0.000	96	1347779	50.0	54.2	
104 Chlorodibromomethane	129	10.597	10.597	0.000	90	235743	5.00	5.23	
105 Ethylene Dibromide	107	10.707	10.707	0.000	99	190467	5.00	5.24	
* 106 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	85	1534420	10.0	10.0	
107 1-Chlorohexane	91	11.152	11.152	0.000	98	355580	5.00	5.02	
108 Chlorobenzene	112	11.170	11.170	0.000	96	724968	5.00	5.11	
S 109 Xylenes, Total	106				0			15.6	
110 1,1,1,2-Tetrachloroethane	131	11.250	11.250	0.000	96	253604	5.00	5.19	
111 Ethylbenzene	91	11.256	11.256	0.000	98	1220994	5.00	5.15	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
112 m-Xylene & p-Xylene	106	11.371	11.372	-0.001	100	960534	10.0	10.4	
113 o-Xylene	106	11.701	11.701	0.000	96	476343	5.00	5.23	
114 Styrene	104	11.719	11.719	0.000	95	820059	5.00	5.34	
115 Bromoform	173	11.877	11.871	0.006	99	155220	5.00	5.35	
116 Isopropylbenzene	105	11.999	12.006	-0.007	96	1232476	5.00	5.30	
$ 119 4-Bromofluorobenzene (Surr)	95	12.146	12.146	0.000	94	729675	10.0	9.99	
120 1,1,2,2-Tetrachloroethane	83	12.249	12.249	0.000	92	250651	5.00	5.12	
121 Bromobenzene	156	12.262	12.262	0.000	95	317303	5.00	5.10	
122 trans-1,4-Dichloro-2-butene	53	12.274	12.274	0.000	92	654243	50.0	52.5	
123 1,2,3-Trichloropropane	110	12.298	12.298	0.000	82	70129	5.00	5.26	
124 N-Propylbenzene	91	12.329	12.329	0.000	99	1480592	5.00	5.23	
125 2-Chlorotoluene	126	12.408	12.408	0.000	97	299514	5.00	5.19	
126 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	94	1075297	5.00	5.30	
127 4-Chlorotoluene	126	12.499	12.499	0.000	97	312849	5.00	5.18	
128 tert-Butylbenzene	134	12.713	12.713	0.000	93	232532	5.00	5.29	
129 Pentachloroethane	167	12.743	12.743	0.000	94	205994	5.00	5.30	
130 1,2,4-Trimethylbenzene	105	12.749	12.749	0.000	97	1111219	5.00	5.29	
131 sec-Butylbenzene	105	12.871	12.871	0.000	94	1368479	5.00	5.29	
132 1,3-Dichlorobenzene	146	12.969	12.969	0.000	99	651676	5.00	5.17	
133 4-Isopropyltoluene	119	12.981	12.981	0.000	97	1207000	5.00	5.34	
* 134 1,4-Dichlorobenzene-d4	152	13.024	13.024	0.000	94	897174	10.0	10.0	
135 1,4-Dichlorobenzene	146	13.042	13.042	0.000	96	658335	5.00	5.07	
136 1,2,3-Trimethylbenzene	120	13.054	13.054	0.000	98	499402	5.00	5.16	
137 Benzyl chloride	126	13.121	13.121	0.000	98	103032	5.00	5.46	
138 p-Diethylbenzene	119	13.182	13.182	0.000	92	743222	5.00	5.33	
139 n-Butylbenzene	92	13.274	13.274	0.000	96	626076	5.00	5.26	
140 1,2-Dichlorobenzene	146	13.304	13.304	0.000	99	613898	5.00	5.12	
142 1,2-Dibromo-3-Chloropropane	155	13.847	13.847	0.000	89	41743	5.00	5.30	
143 1,3,5-Trichlorobenzene	180	13.969	13.969	0.000	98	538482	5.00	5.13	
144 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	487803	5.00	5.10	
145 Hexachlorobutadiene	225	14.475	14.475	0.000	96	244269	5.00	5.15	
146 Naphthalene	128	14.572	14.572	0.000	97	904150	5.00	5.37	
147 1,2,3-Trichlorobenzene	180	14.718	14.718	0.000	96	440850	5.00	5.16	
148 2-Methylnaphthalene	142	15.334	15.334	0.000	92	579560	5.00	5.51	
160 Pentane	43	2.983	2.983	0.000	96	385078	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00011	Amount Added:	5.00	Units: uL	
MSV_LL_GAS826_00018	Amount Added:	5.00	Units: uL	
MSV_LL_#2_826_00011	Amount Added:	5.00	Units: uL	
MSV_29_826ISS_00020	Amount Added:	1.00	Units: uL	Run Reagent

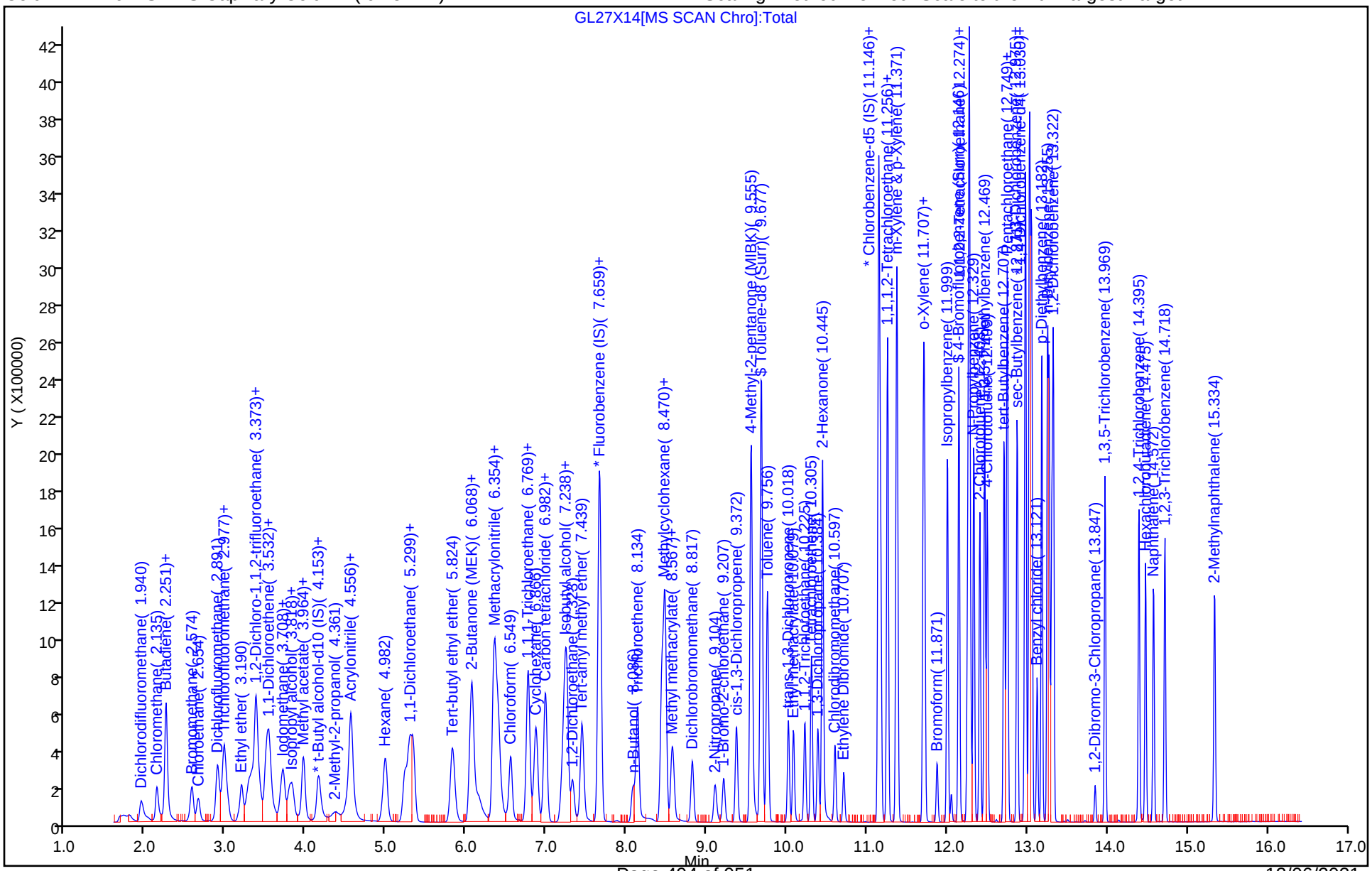
Report Date: 05-Aug-2021 16:12:37 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X14.D

Injection Date:	27-Jul-2021 20:19:30	Instrument ID:	16334	Operator ID:	kas02648
Lims ID:	IC std5			Worklist Smp#:	14
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

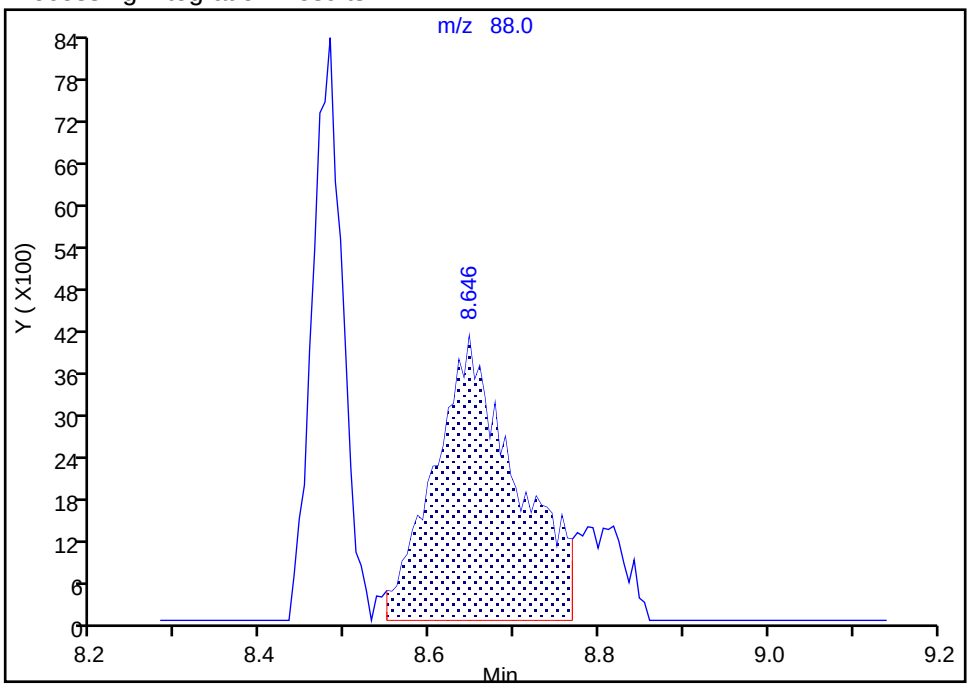
Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X14.D
Injection Date: 27-Jul-2021 20:19:30 Instrument ID: 16334
Lims ID: IC std5
Client ID:
Operator ID: kas02648 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

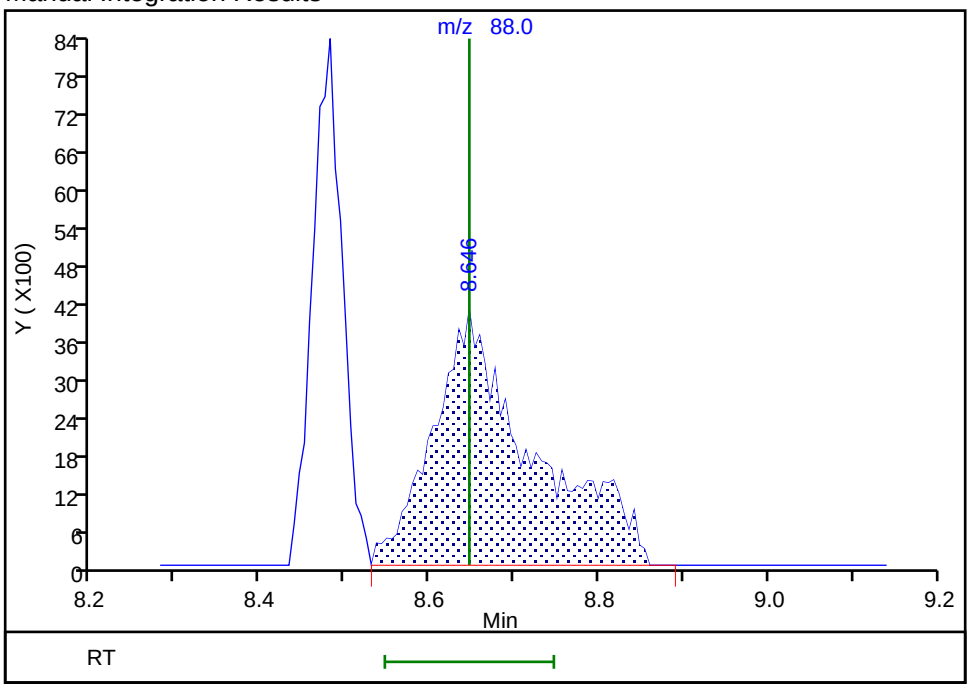
Processing Integration Results

RT: 8.65
Area: 27424
Amount: 306.9993
Amount Units: ug/l



Manual Integration Results

RT: 8.65
Area: 32843
Amount: 244.6704
Amount Units: ug/l



Reviewer: spositok, 28-Jul-2021 11:55:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X15.D
Lims ID: IC std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 27-Jul-2021 20:41:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0035331-015
Misc. Info.: IC STD4
Operator ID: kas02648 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 05-Aug-2021 16:12:44 Calib Date: 27-Jul-2021 21:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1675

First Level Reviewer: spositok Date: 28-Jul-2021 11:58:48

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	105695	2.00	2.21	
5 Chloromethane	50	2.136	2.136	0.000	98	120238	2.00	2.01	
7 Butadiene	39	2.245	2.245	0.000	91	139390	2.00	2.19	
8 Vinyl chloride	62	2.251	2.251	0.000	84	123951	2.00	2.14	
9 Bromomethane	94	2.568	2.568	0.000	90	86285	2.00	2.08	
10 Chloroethane	64	2.648	2.648	0.000	99	73196	2.00	2.12	
12 Dichlorofluoromethane	67	2.892	2.892	0.000	97	168533	2.00	2.10	
13 Trichlorofluoromethane	101	2.959	2.959	0.000	97	159826	2.00	2.15	
15 Ethyl ether	59	3.190	3.190	0.000	91	78080	2.00	2.07	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.288	3.288	0.000	92	118430	2.00	2.14	
18 Acrolein	56	3.367	3.367	0.000	99	620999	100.0	122.5	
19 1,1-Dichloroethene	96	3.501	3.501	0.000	97	85424	2.00	2.14	
20 112TCTFE	101	3.532	3.532	0.000	90	93862	2.00	2.17	
21 Acetone	43	3.550	3.550	0.000	99	132655	20.0	21.4	
23 Iodomethane	142	3.696	3.696	0.000	98	159111	2.00	2.10	
24 Ethyl bromide	108	3.715	3.715	0.000	98	74675	2.00	2.10	
22 Isopropyl alcohol	45	3.800	3.800	0.000	95	36768	40.0	32.6	M
25 Carbon disulfide	76	3.806	3.806	0.000	99	291736	2.00	2.11	
27 Methyl acetate	43	3.934	3.934	0.000	97	44258	2.00	2.34	
28 3-Chloro-1-propene	41	3.965	3.965	0.000	92	138586	2.00	2.03	
29 Methylene Chloride	84	4.154	4.154	0.000	90	95699	2.00	2.09	
* 30 t-Butyl alcohol-d10 (IS)	65	4.257	4.257	0.000	97	119562	50.0	50.0	
31 2-Methyl-2-propanol	59	4.367	4.367	0.000	97	87970	40.0	42.9	
32 Acrylonitrile	53	4.501	4.501	0.000	95	53103	5.00	6.16	
33 Methyl tert-butyl ether	73	4.550	4.550	0.000	93	239506	2.00	2.07	
34 trans-1,2-Dichloroethene	96	4.556	4.556	0.000	100	95047	2.00	2.13	
35 Hexane	57	4.983	4.983	0.000	92	141660	2.00	2.19	
37 1,1-Dichloroethane	63	5.226	5.226	0.000	96	164184	2.00	2.09	
38 Isopropyl ether	45	5.287	5.287	0.000	94	304739	2.00	2.10	
39 2-Chloro-1,3-butadiene	53	5.336	5.336	0.000	90	136910	2.00	2.12	

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	5.824	5.824	0.000	98	279921	2.00	2.12	
41 2-Butanone (MEK)	43	6.043	6.043	0.000	100	283392	20.0	23.9	
42 cis-1,2-Dichloroethene	96	6.062	6.062	0.000	81	104526	2.00	2.10	
43 2,2-Dichloropropane	77	6.080	6.080	0.000	88	122071	2.00	2.10	
45 Propionitrile	54	6.153	6.153	0.000	99	144352	40.0	47.2	
S 46 1,2-Dichloroethene, Total	100				0			4.23	
48 Methacrylonitrile	67	6.348	6.348	0.000	92	283178	20.0	24.7	
49 Chlorobromomethane	128	6.391	6.391	0.000	91	49371	2.00	2.14	
50 Tetrahydrofuran	71	6.409	6.409	0.000	87	40258	10.0	11.9	
51 Chloroform	83	6.549	6.549	0.000	93	162636	2.00	2.08	
$ 52 Dibromofluoromethane (Surr)	113	6.763	6.763	0.000	94	475325	10.0	9.96	
53 1,1,1-Trichloroethane	97	6.769	6.769	0.000	48	141297	2.00	2.10	
54 Cyclohexane	56	6.866	6.866	0.000	90	168554	2.00	2.15	
56 Carbon tetrachloride	117	6.976	6.976	0.000	85	125270	2.00	2.11	
57 1,1-Dichloropropene	75	6.982	6.982	0.000	96	131391	2.00	2.15	
58 Isobutyl alcohol	41	7.196	7.196	0.000	91	71811	100.0	81.1	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.214	7.214	0.000	86	105744	10.0	9.97	
60 Benzene	78	7.250	7.250	0.000	96	390651	2.00	2.09	
61 1,2-Dichloroethane	62	7.318	7.318	0.000	97	106240	2.00	2.03	
63 Tert-amyl methyl ether	73	7.446	7.446	0.000	98	261376	2.00	2.10	
* 64 Fluorobenzene (IS)	96	7.653	7.653	0.000	98	1914569	10.0	10.0	
65 n-Heptane	43	7.665	7.665	0.000	91	150763	2.00	2.12	
67 n-Butanol	56	8.086	8.086	0.000	90	107788	175.0	168.3	
68 Trichloroethene	95	8.134	8.134	0.000	97	101568	2.00	2.07	
69 Methylcyclohexane	83	8.439	8.439	0.000	92	181841	2.00	2.16	
70 1,2-Dichloropropane	63	8.470	8.470	0.000	96	99474	2.00	2.07	
71 2-ethoxy-2-methyl butane	87	8.476	8.476	0.000	93	145519	2.00	2.10	
72 Methyl methacrylate	69	8.555	8.555	0.000	93	53252	2.00	2.45	
74 Dibromomethane	93	8.579	8.579	0.000	93	49729	2.00	2.07	
73 1,4-Dioxane	88	8.653	8.653	0.000	28	10923	100.0	95.6	M
76 Dichlorobromomethane	83	8.817	8.817	0.000	100	119231	2.00	2.08	
77 2-Nitropropane	41	9.104	9.104	0.000	99	73305	10.0	11.9	
80 1-Bromo-2-chloroethane	63	9.207	9.207	0.000	98	110803	2.00	2.12	
81 cis-1,3-Dichloropropene	75	9.366	9.366	0.000	97	150413	2.00	2.11	
82 4-Methyl-2-pentanone (MIBK)	43	9.549	9.549	0.000	96	715808	20.0	24.6	
$ 83 Toluene-d8 (Surr)	98	9.677	9.677	0.000	93	1958504	10.0	10.0	
84 Toluene	92	9.756	9.756	0.000	98	251158	2.00	2.09	
96 trans-1,3-Dichloropropene	75	10.018	10.018	0.000	92	126337	2.00	2.11	
S 97 1,3-Dichloropropene, Total	100				0			4.22	
98 Ethyl methacrylate	69	10.079	10.079	0.000	90	109774	2.00	2.12	
99 1,1,2-Trichloroethane	97	10.219	10.219	0.000	90	77558	2.00	2.12	
100 Tetrachloroethene	166	10.305	10.305	0.000	98	120772	2.00	2.11	
101 1,3-Dichloropropane	76	10.384	10.384	0.000	90	128951	2.00	2.09	
102 2-Hexanone	43	10.445	10.445	0.000	96	525996	20.0	24.9	
104 Chlorodibromomethane	129	10.597	10.597	0.000	90	91864	2.00	2.08	
105 Ethylene Dibromide	107	10.707	10.707	0.000	99	74158	2.00	2.09	
* 106 Chlorobenzene-d5 (IS)	117	11.140	11.140	0.000	85	1500688	10.0	10.0	
107 1-Chlorohexane	91	11.152	11.152	0.000	98	138994	2.00	2.00	
108 Chlorobenzene	112	11.170	11.170	0.000	96	291512	2.00	2.10	
S 109 Xylenes, Total	106				0			6.30	
110 1,1,1,2-Tetrachloroethane	131	11.250	11.250	0.000	96	99332	2.00	2.08	
111 Ethylbenzene	91	11.256	11.256	0.000	98	485679	2.00	2.09	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
112 m-Xylene & p-Xylene	106	11.372	11.372	0.000	99	380409	4.00	4.22	
113 o-Xylene	106	11.701	11.701	0.000	96	185335	2.00	2.08	
114 Styrene	104	11.719	11.719	0.000	95	317345	2.00	2.11	
115 Bromoform	173	11.872	11.872	0.000	98	59134	2.00	2.08	
116 Isopropylbenzene	105	12.000	12.000	0.000	95	485658	2.00	2.13	
$ 119 4-Bromofluorobenzene (Surr)	95	12.146	12.146	0.000	94	713497	10.0	9.99	
120 1,1,2,2-Tetrachloroethane	83	12.250	12.250	0.000	93	99213	2.00	2.07	
121 Bromobenzene	156	12.262	12.262	0.000	94	127057	2.00	2.09	
122 trans-1,4-Dichloro-2-butene	53	12.274	12.274	0.000	92	246723	20.0	23.3	
123 1,2,3-Trichloropropane	110	12.292	12.292	0.000	79	27797	2.00	2.13	
124 N-Propylbenzene	91	12.329	12.329	0.000	99	590833	2.00	2.13	
125 2-Chlorotoluene	126	12.408	12.408	0.000	97	119243	2.00	2.11	
126 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	95	419509	2.00	2.11	
127 4-Chlorotoluene	126	12.499	12.499	0.000	97	125295	2.00	2.12	
128 tert-Butylbenzene	134	12.707	12.707	0.000	93	91865	2.00	2.13	
129 Pentachloroethane	167	12.743	12.743	0.000	93	80272	2.00	2.11	
130 1,2,4-Trimethylbenzene	105	12.749	12.749	0.000	97	438254	2.00	2.13	
131 sec-Butylbenzene	105	12.871	12.871	0.000	94	538798	2.00	2.12	
132 1,3-Dichlorobenzene	146	12.969	12.969	0.000	99	257560	2.00	2.09	
133 4-Isopropyltoluene	119	12.981	12.981	0.000	97	475245	2.00	2.14	
* 134 1,4-Dichlorobenzene-d4	152	13.024	13.024	0.000	94	879209	10.0	10.0	
135 1,4-Dichlorobenzene	146	13.042	13.042	0.000	96	264857	2.00	2.08	
136 1,2,3-Trimethylbenzene	120	13.054	13.054	0.000	98	200100	2.00	2.11	
137 Benzyl chloride	126	13.121	13.121	0.000	98	38696	2.00	2.09	
138 p-Diethylbenzene	119	13.182	13.182	0.000	92	288595	2.00	2.11	
139 n-Butylbenzene	92	13.274	13.274	0.000	97	247402	2.00	2.12	
140 1,2-Dichlorobenzene	146	13.304	13.304	0.000	99	245051	2.00	2.09	
142 1,2-Dibromo-3-Chloropropane	155	13.847	13.847	0.000	88	16249	2.00	2.11	
143 1,3,5-Trichlorobenzene	180	13.969	13.969	0.000	98	211923	2.00	2.06	
144 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	195116	2.00	2.08	
145 Hexachlorobutadiene	225	14.475	14.475	0.000	96	96028	2.00	2.07	
146 Naphthalene	128	14.578	14.578	0.000	97	343293	2.00	2.08	
147 1,2,3-Trichlorobenzene	180	14.719	14.719	0.000	95	172041	2.00	2.06	
148 2-Methylnaphthalene	142	15.340	15.340	0.000	91	210419	2.00	2.04	
160 Pentane	43	2.983	2.983	0.000	96	156032	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00011	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00018	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00011	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00020	Amount Added:	1.00	Units: uL	Run Reagent

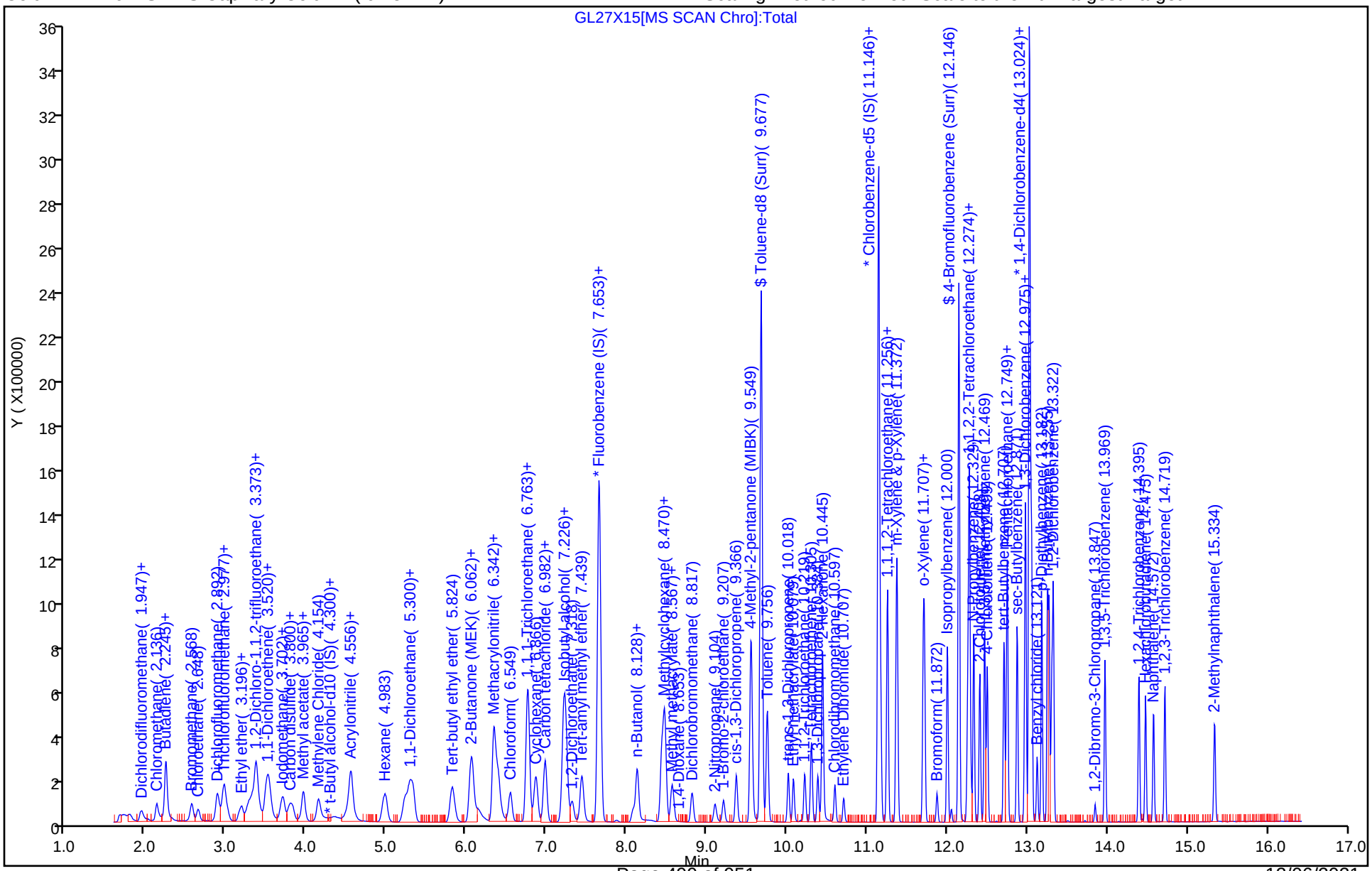
Report Date: 05-Aug-2021 16:12:45 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X15.D

Injection Date:	27-Jul-2021 20:41:30	Instrument ID:	16334	Operator ID:	kas02648
Lims ID:	IC std4			Worklist Smp#:	15
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

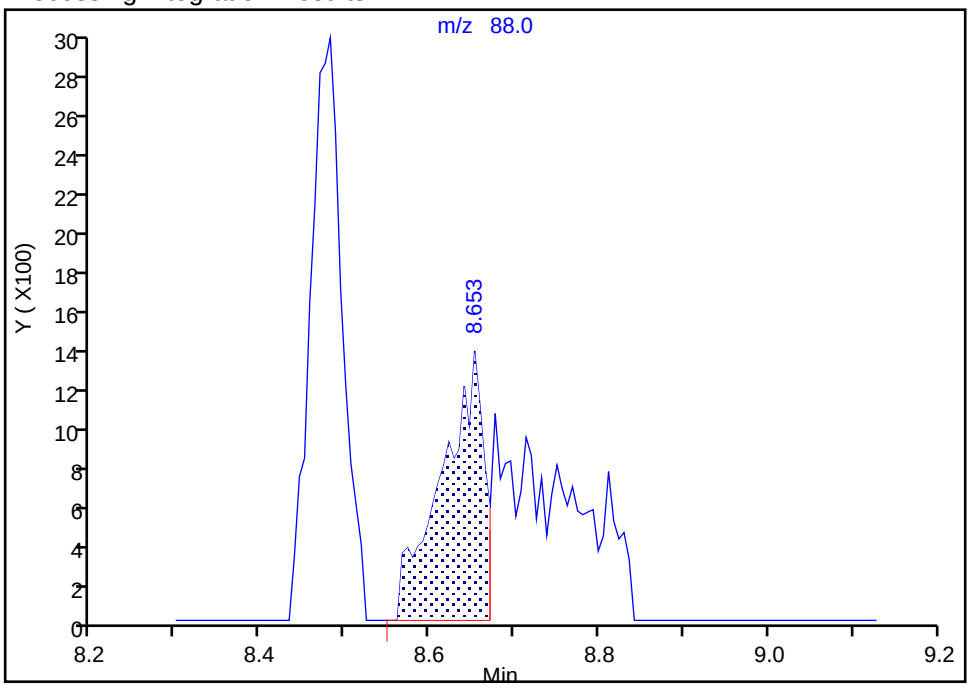
Data File:	\\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X15.D				
Injection Date:	27-Jul-2021 20:41:30	Instrument ID:	16334		
Lims ID:	IC std4				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

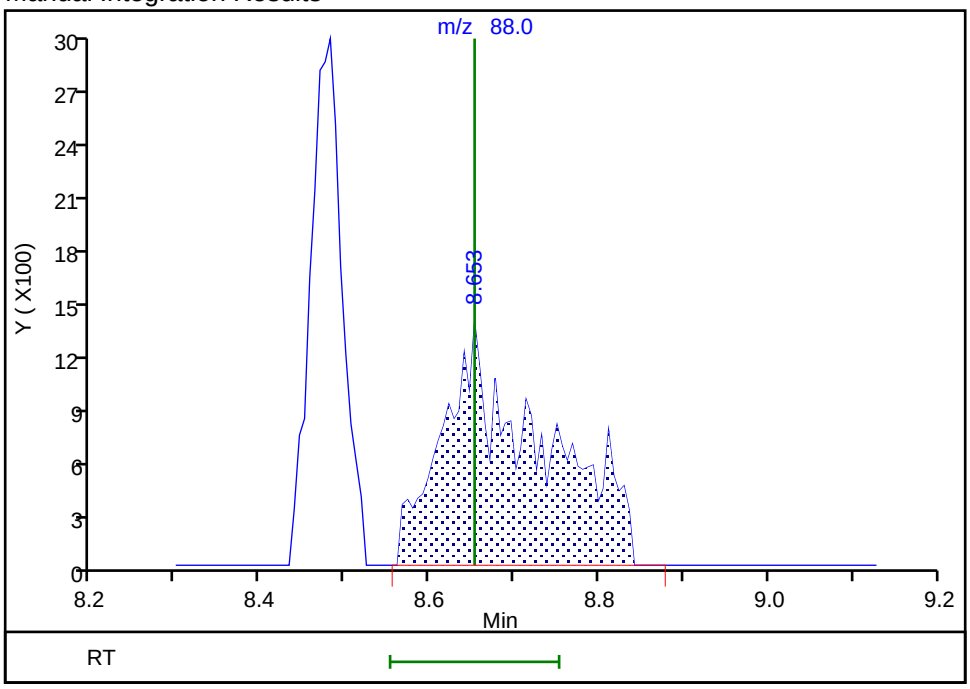
Processing Integration Results

RT: 8.65
Area: 4756
Amount: 52.091370
Amount Units: ug/l



Manual Integration Results

RT: 8.65
Area: 10923
Amount: 95.635559
Amount Units: ug/l



Reviewer: spositok, 28-Jul-2021 11:58:11

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X16.D
Lims ID: IC std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 27-Jul-2021 21:03:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0035331-016
Misc. Info.: IC STD3
Operator ID: kas02648 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 05-Aug-2021 16:12:52 Calib Date: 27-Jul-2021 21:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1675

First Level Reviewer: spositok Date: 28-Jul-2021 12:00:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.953	1.934	0.019	99	48285	1.00	1.02	
5 Chloromethane	50	2.148	2.136	0.012	99	59955	1.00	1.02	
7 Butadiene	39	2.257	2.245	0.012	91	59859	1.00	0.9532	
8 Vinyl chloride	62	2.264	2.251	0.013	89	56627	1.00	0.9880	
9 Bromomethane	94	2.581	2.568	0.013	89	40150	1.00	0.9805	
10 Chloroethane	64	2.666	2.648	0.018	99	33819	1.00	0.9892	
12 Dichlorofluoromethane	67	2.904	2.892	0.012	97	80455	1.00	1.01	
13 Trichlorofluoromethane	101	2.971	2.959	0.012	97	73768	1.00	1.00	
15 Ethyl ether	59	3.196	3.190	0.006	92	36058	1.00	0.9681	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.300	3.288	0.012	92	55311	1.00	1.01	
18 Acrolein	56	3.379	3.367	0.012	100	305188	50.0	50.1	
19 1,1-Dichloroethene	96	3.513	3.501	0.012	98	40340	1.00	1.02	
20 112TCTFE	101	3.544	3.532	0.012	91	44751	1.00	1.04	
21 Acetone	43	3.562	3.550	0.012	96	67020	10.0	9.00	
23 Iodomethane	142	3.702	3.696	0.006	98	76913	1.00	1.03	
24 Ethyl bromide	108	3.733	3.715	0.018	97	34065	1.00	0.9704	
22 Isopropyl alcohol	45	3.812	3.800	0.012	28	23013	20.0	20.7	M
25 Carbon disulfide	76	3.824	3.806	0.018	99	141663	1.00	1.04	
27 Methyl acetate	43	3.946	3.934	0.012	25	21939	1.00	0.9648	M
28 3-Chloro-1-propene	41	3.977	3.965	0.012	93	70545	1.00	1.05	
29 Methylene Chloride	84	4.160	4.154	0.006	92	46875	1.00	1.03	
* 30 t-Butyl alcohol-d10 (IS)	65	4.251	4.257	-0.006	96	143773	50.0	50.0	
31 2-Methyl-2-propanol	59	4.373	4.367	0.006	99	44573	20.0	18.1	
32 Acrylonitrile	53	4.513	4.501	0.012	97	26349	2.50	2.54	
33 Methyl tert-butyl ether	73	4.562	4.550	0.012	87	115806	1.00	1.01	
34 trans-1,2-Dichloroethene	96	4.568	4.556	0.012	99	45312	1.00	1.03	
35 Hexane	57	4.995	4.983	0.012	92	65230	1.00	1.02	
37 1,1-Dichloroethane	63	5.232	5.226	0.006	95	80419	1.00	1.04	
38 Isopropyl ether	45	5.287	5.287	0.000	94	146277	1.00	1.02	
39 2-Chloro-1,3-butadiene	53	5.336	5.336	0.000	90	64426	1.00	1.01	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.830	5.824	0.006	97	132335	1.00	1.01	
41 2-Butanone (MEK)	43	6.056	6.043	0.013	100	146949	10.0	10.3	
42 cis-1,2-Dichloroethene	96	6.080	6.062	0.018	81	50459	1.00	1.03	
43 2,2-Dichloropropane	77	6.080	6.080	0.000	62	58977	1.00	1.02	
45 Propionitrile	54	6.159	6.153	0.006	99	77396	20.0	21.0	
S 46 1,2-Dichloroethene, Total	100				0			2.05	
48 Methacrylonitrile	67	6.348	6.348	0.000	92	136258	10.0	9.90	
49 Chlorobromomethane	128	6.391	6.391	0.000	91	23043	1.00	1.01	
50 Tetrahydrofuran	71	6.415	6.409	0.006	73	20154	5.00	4.96	
51 Chloroform	83	6.549	6.549	0.000	93	78896	1.00	1.02	
$ 52 Dibromofluoromethane (Surr)	113	6.763	6.763	0.000	94	471097	10.0	9.99	
53 1,1,1-Trichloroethane	97	6.781	6.769	0.012	41	67893	1.00	1.02	
54 Cyclohexane	56	6.872	6.866	0.006	91	80010	1.00	1.03	
56 Carbon tetrachloride	117	6.982	6.976	0.006	90	60121	1.00	1.02	
57 1,1-Dichloropropene	75	6.988	6.982	0.006	96	62661	1.00	1.04	
58 Isobutyl alcohol	41	7.196	7.196	0.000	89	46747	50.0	53.4	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.214	7.214	0.000	83	104518	10.0	9.96	
60 Benzene	78	7.250	7.250	0.000	92	189845	1.00	1.03	
61 1,2-Dichloroethane	62	7.317	7.318	-0.001	97	53223	1.00	1.03	
63 Tert-amyl methyl ether	73	7.439	7.446	-0.007	97	124444	1.00	1.01	
* 64 Fluorobenzene (IS)	96	7.659	7.653	0.006	99	1893045	10.0	10.0	
65 n-Heptane	43	7.665	7.665	0.000	78	72933	1.00	1.04	
67 n-Butanol	56	8.086	8.086	0.000	89	68888	87.5	89.4	
68 Trichloroethene	95	8.128	8.134	-0.006	96	49147	1.00	1.01	
69 Methylcyclohexane	83	8.439	8.439	0.000	91	84779	1.00	1.02	
70 1,2-Dichloropropane	63	8.470	8.470	0.000	95	47996	1.00	1.01	
71 2-ethoxy-2-methyl butane	87	8.482	8.476	0.006	96	69499	1.00	1.01	
72 Methyl methacrylate	69	8.555	8.555	0.000	92	25535	1.00	0.9756	
74 Dibromomethane	93	8.579	8.579	0.000	93	24708	1.00	1.04	
73 1,4-Dioxane	88	8.616	8.653	-0.037	28	6572	50.0	47.9	M
76 Dichlorobromomethane	83	8.817	8.817	0.000	99	56926	1.00	1.00	
77 2-Nitropropane	41	9.098	9.104	-0.006	99	35662	5.00	4.82	
80 1-Bromo-2-chloroethane	63	9.213	9.207	0.006	98	50499	1.00	0.9765	
81 cis-1,3-Dichloropropene	75	9.372	9.366	0.006	96	70807	1.00	1.01	
82 4-Methyl-2-pentanone (MIBK)	43	9.549	9.549	0.000	97	345315	10.0	9.85	
$ 83 Toluene-d8 (Surr)	98	9.683	9.677	0.006	93	1940951	10.0	10.1	
84 Toluene	92	9.756	9.756	0.000	98	120357	1.00	1.02	
96 trans-1,3-Dichloropropene	75	10.018	10.018	0.000	93	58447	1.00	0.9889	
S 97 1,3-Dichloropropene, Total	100				0			1.99	
98 Ethyl methacrylate	69	10.079	10.079	0.000	90	50655	1.00	0.99	
99 1,1,2-Trichloroethane	97	10.219	10.219	0.000	89	37268	1.00	1.03	
100 Tetrachloroethene	166	10.305	10.305	0.000	97	57945	1.00	1.03	
101 1,3-Dichloropropane	76	10.384	10.384	0.000	90	62656	1.00	1.03	
102 2-Hexanone	43	10.445	10.445	0.000	96	249173	10.0	9.79	
104 Chlorodibromomethane	129	10.597	10.597	0.000	89	44279	1.00	1.02	
105 Ethylene Dibromide	107	10.707	10.707	0.000	98	35554	1.00	1.01	
* 106 Chlorobenzene-d5 (IS)	117	11.146	11.140	0.006	85	1480101	10.0	10.0	
107 1-Chlorohexane	91	11.152	11.152	0.000	96	68788	1.00	1.01	
108 Chlorobenzene	112	11.170	11.170	0.000	96	140899	1.00	1.03	
S 109 Xylenes, Total	106				0			3.08	
110 1,1,1,2-Tetrachloroethane	131	11.250	11.250	0.000	95	47898	1.00	1.02	
111 Ethylbenzene	91	11.256	11.256	0.000	98	231619	1.00	1.01	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
112 m-Xylene & p-Xylene	106	11.372	11.372	0.000	99	183271	2.00	2.06	
113 o-Xylene	106	11.701	11.701	0.000	96	89302	1.00	1.02	
114 Styrene	104	11.719	11.719	0.000	95	149757	1.00	1.01	
115 Bromoform	173	11.871	11.872	-0.001	98	27224	1.00	0.9724	
116 Isopropylbenzene	105	11.999	12.000	-0.001	95	226325	1.00	1.01	
$ 119 4-Bromofluorobenzene (Surr)	95	12.146	12.146	0.000	93	714443	10.0	10.1	
120 1,1,2,2-Tetrachloroethane	83	12.249	12.250	-0.001	93	47628	1.00	1.00	
121 Bromobenzene	156	12.262	12.262	0.000	96	60740	1.00	1.00	
122 trans-1,4-Dichloro-2-butene	53	12.274	12.274	0.000	94	114008	10.0	8.95	
123 1,2,3-Trichloropropane	110	12.298	12.292	0.006	83	13685	1.00	1.05	
124 N-Propylbenzene	91	12.329	12.329	0.000	99	280736	1.00	1.02	
125 2-Chlorotoluene	126	12.408	12.408	0.000	97	57641	1.00	1.02	
126 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	94	197085	1.00	0.99	
127 4-Chlorotoluene	126	12.499	12.499	0.000	97	60319	1.00	1.02	
128 tert-Butylbenzene	134	12.707	12.707	0.000	93	42989	1.00	1.00	
129 Pentachloroethane	167	12.743	12.743	0.000	91	36222	1.00	0.9538	
130 1,2,4-Trimethylbenzene	105	12.749	12.749	0.000	97	210451	1.00	1.03	
131 sec-Butylbenzene	105	12.871	12.871	0.000	94	254997	1.00	1.01	
132 1,3-Dichlorobenzene	146	12.969	12.969	0.000	99	125754	1.00	1.02	
133 4-Isopropyltoluene	119	12.981	12.981	0.000	97	221243	1.00	1.00	
* 134 1,4-Dichlorobenzene-d4	152	13.024	13.024	0.000	94	875966	10.0	10.0	
135 1,4-Dichlorobenzene	146	13.042	13.042	0.000	96	129014	1.00	1.02	
136 1,2,3-Trimethylbenzene	120	13.054	13.054	0.000	98	94138	1.00	1.00	
137 Benzyl chloride	126	13.121	13.121	0.000	98	17706	1.00	0.9603	
138 p-Diethylbenzene	119	13.182	13.182	0.000	92	137465	1.00	1.01	
139 n-Butylbenzene	92	13.274	13.274	0.000	98	116669	1.00	1.00	
140 1,2-Dichlorobenzene	146	13.304	13.304	0.000	99	117822	1.00	1.01	
142 1,2-Dibromo-3-Chloropropane	155	13.847	13.847	0.000	84	7530	1.00	0.9800	
143 1,3,5-Trichlorobenzene	180	13.969	13.969	0.000	98	103419	1.00	1.01	
144 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	94107	1.00	1.01	
145 Hexachlorobutadiene	225	14.475	14.475	0.000	95	46353	1.00	1.00	
146 Naphthalene	128	14.578	14.578	0.000	97	163319	1.00	0.99	
147 1,2,3-Trichlorobenzene	180	14.718	14.719	-0.001	96	84829	1.00	1.02	
148 2-Methylnaphthalene	142	15.340	15.340	0.000	92	95705	1.00	0.9322	
160 Pentane	43	2.995	2.983	0.012	97	72245	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00011	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00018	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00011	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00020	Amount Added:	1.00	Units: uL	Run Reagent

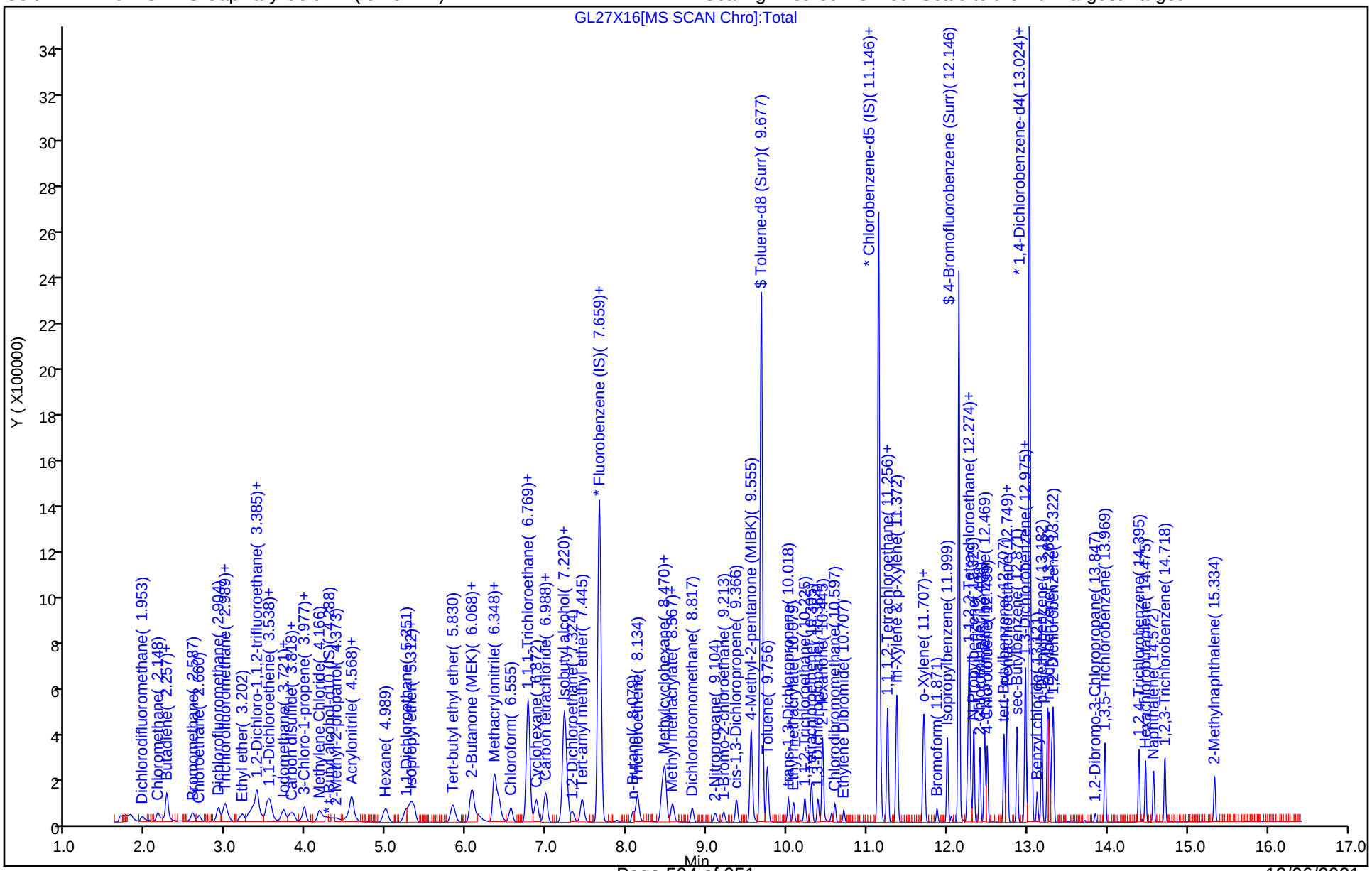
Report Date: 05-Aug-2021 16:12:53 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X16.D

Injection Date:	27-Jul-2021 21:03:30	Instrument ID:	16334	Operator ID:	kas02648
Lims ID:	IC std3			Worklist Smp#:	16
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

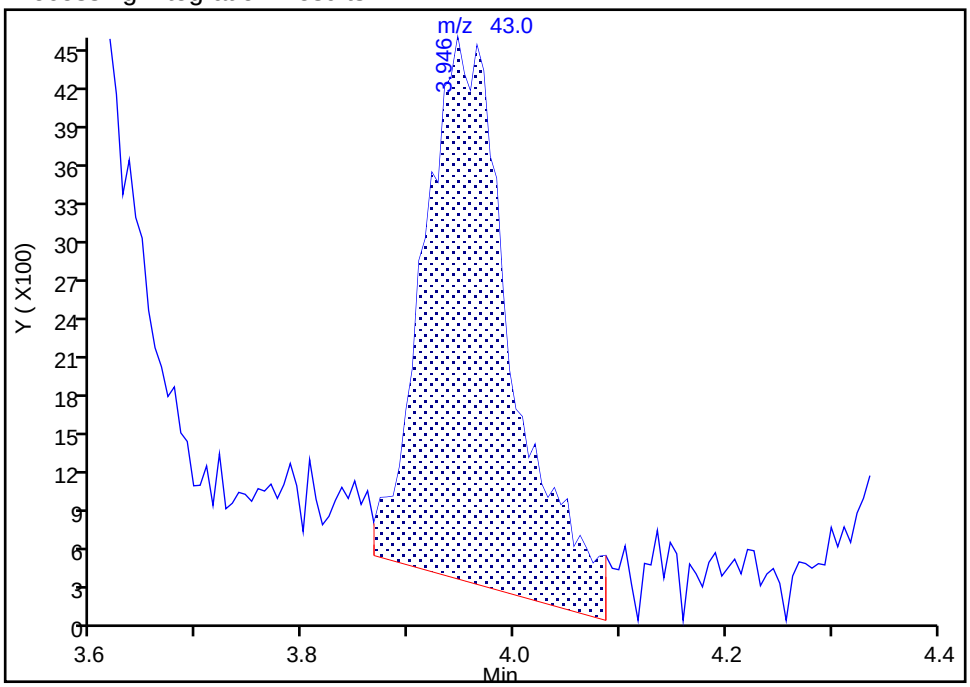
Data File:	\\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X16.D				
Injection Date:	27-Jul-2021 21:03:30	Instrument ID:	16334		
Lims ID:	IC std3				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

27 Methyl acetate, CAS: 79-20-9

Signal: 1

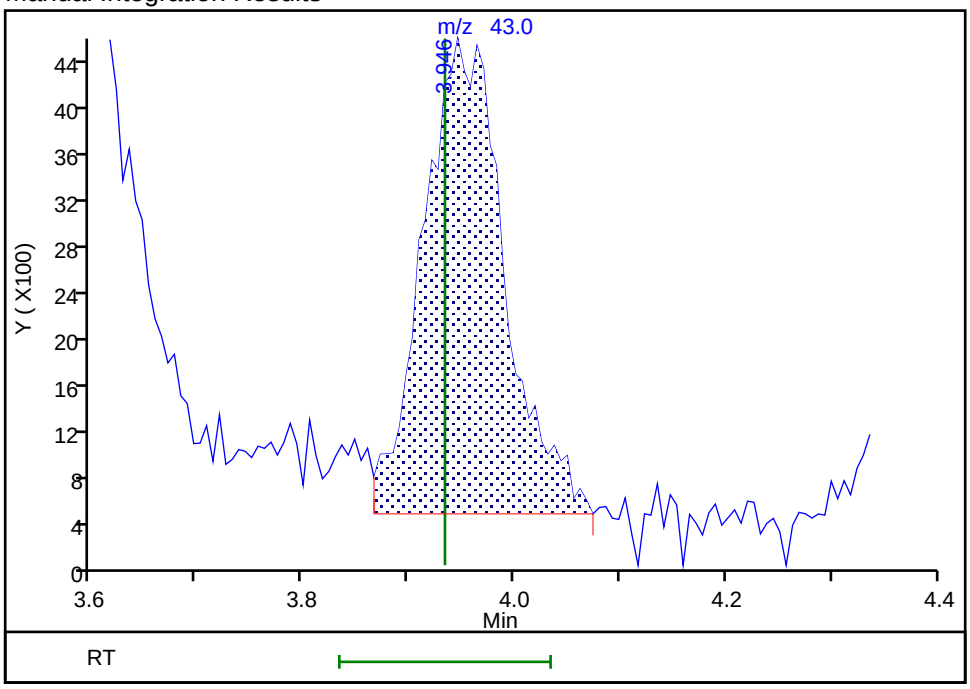
Processing Integration Results

RT: 3.95
Area: 24547
Amount: 1.042534
Amount Units: ug/l



Manual Integration Results

RT: 3.95
Area: 21939
Amount: 0.964813
Amount Units: ug/l



Reviewer: spositok, 28-Jul-2021 12:00:04
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

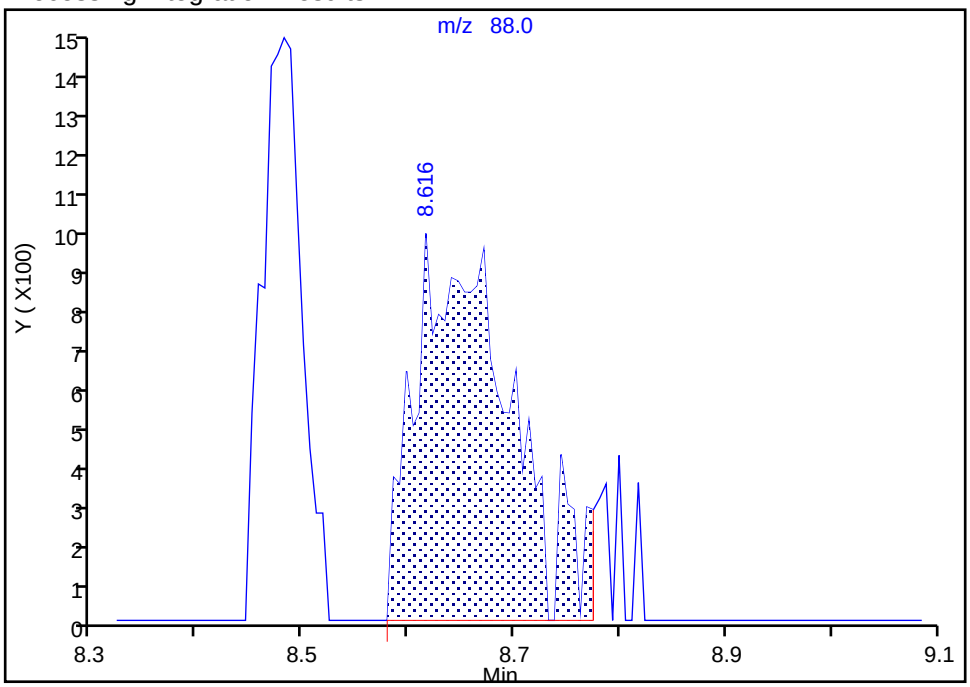
Data File:	\\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X16.D				
Injection Date:	27-Jul-2021 21:03:30	Instrument ID:	16334		
Lims ID:	IC std3				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

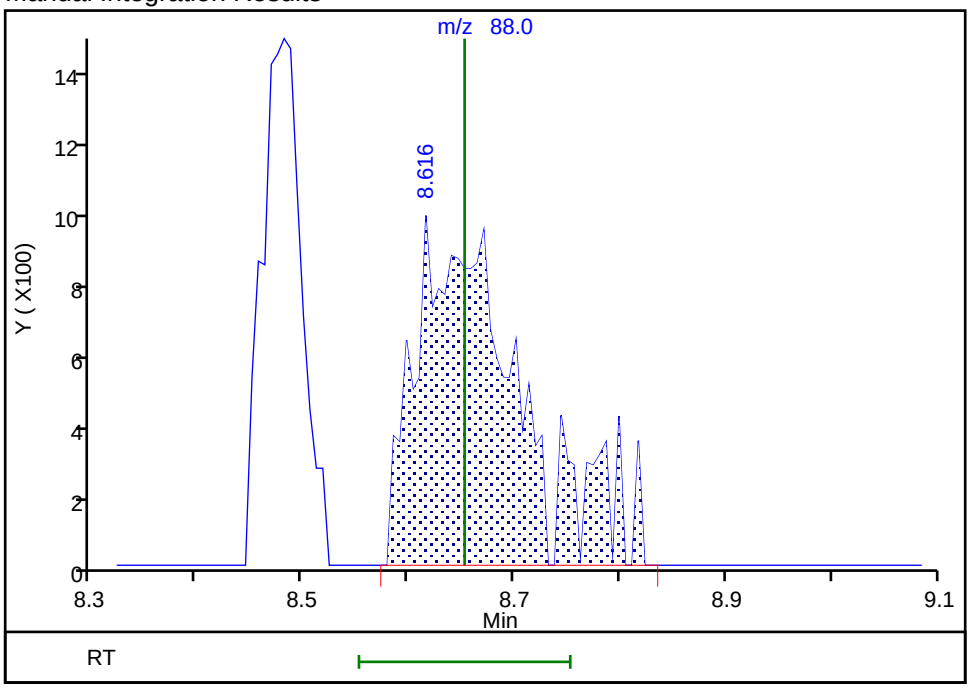
Processing Integration Results

RT: 8.62
Area: 6060
Amount: 48.944328
Amount Units: ug/l



Manual Integration Results

RT: 8.62
Area: 6572
Amount: 47.850982
Amount Units: ug/l



Reviewer: spositok, 28-Jul-2021 12:00:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X17.D
Lims ID: IC std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Jul-2021 21:25:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0035331-017
Misc. Info.: IC STD2
Operator ID: kas02648 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 05-Aug-2021 16:12:59 Calib Date: 27-Jul-2021 21:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1675

First Level Reviewer: spositok Date: 28-Jul-2021 12:04:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.947	1.934	0.013	99	21724	0.5000	0.4638	
5 Chloromethane	50	2.142	2.136	0.006	99	29283	0.5000	0.5009	
7 Butadiene	39	2.257	2.245	0.012	90	29692	0.5000	0.4772	
8 Vinyl chloride	62	2.257	2.251	0.006	88	26745	0.5000	0.4710	
9 Bromomethane	94	2.581	2.568	0.013	90	19605	0.5000	0.4832	
10 Chloroethane	64	2.648	2.648	0.000	99	16333	0.5000	0.4822	
12 Dichlorofluoromethane	67	2.898	2.892	0.006	97	38104	0.5000	0.4840	
13 Trichlorofluoromethane	101	2.971	2.959	0.012	97	33969	0.5000	0.4664	
15 Ethyl ether	59	3.196	3.190	0.006	91	18010	0.5000	0.4880	M
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.294	3.288	0.006	88	26167	0.5000	0.4838	
18 Acrolein	56	3.373	3.367	0.006	99	132577	25.0	21.3	
19 1,1-Dichloroethene	96	3.513	3.501	0.012	97	17652	0.5000	0.4510	
20 112TCTFE	101	3.538	3.532	0.006	92	17931	0.5000	0.4225	
21 Acetone	43	3.562	3.550	0.012	98	34939	5.00	4.60	M
23 Iodomethane	142	3.696	3.696	0.000	98	32943	0.5000	0.4447	
24 Ethyl bromide	108	3.727	3.715	0.012	95	16384	0.4997	0.4711	
22 Isopropyl alcohol	45	3.782	3.800	-0.018	28	11253	10.0	10.2	
25 Carbon disulfide	76	3.812	3.806	0.006	99	57933	0.5000	0.4276	M
27 Methyl acetate	43	3.946	3.934	0.012	92	10005	0.5000	0.4316	M
28 3-Chloro-1-propene	41	3.971	3.965	0.006	93	29502	0.5000	0.4413	
29 Methylene Chloride	84	4.160	4.154	0.006	88	21145	0.5000	0.4712	
* 30 t-Butyl alcohol-d10 (IS)	65	4.245	4.257	-0.012	96	146579	50.0	50.0	
31 2-Methyl-2-propanol	59	4.349	4.367	-0.019	98	21557	10.0	8.58	
32 Acrylonitrile	53	4.525	4.501	0.024	97	11055	1.25	1.05	
33 Methyl tert-butyl ether	73	4.568	4.550	0.018	91	50908	0.5000	0.4494	
34 trans-1,2-Dichloroethene	96	4.562	4.556	0.006	98	18357	0.5000	0.4193	
35 Hexane	57	5.001	4.983	0.018	92	25282	0.5000	0.3997	
37 1,1-Dichloroethane	63	5.232	5.226	0.006	96	34195	0.5000	0.4444	a
38 Isopropyl ether	45	5.293	5.287	0.006	94	63401	0.5000	0.4463	
39 2-Chloro-1,3-butadiene	53	5.342	5.336	0.006	90	25981	0.5000	0.4115	

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	5.824	5.824	0.000	97	56098	0.5000	0.4332	
41 2-Butanone (MEK)	43	6.055	6.043	0.012	100	60342	5.00	4.15	
42 cis-1,2-Dichloroethene	96	6.068	6.062	0.006	80	21768	0.5000	0.4464	
43 2,2-Dichloropropane	77	6.086	6.080	0.006	87	24342	0.5000	0.4269	
45 Propionitrile	54	6.153	6.153	0.000	99	30332	10.0	8.09	
S 46 1,2-Dichloroethene, Total	100				0			0.8658	
48 Methacrylonitrile	67	6.348	6.348	0.000	91	57499	5.00	4.10	
49 Chlorobromomethane	128	6.397	6.391	0.006	93	9896	0.5000	0.4384	
50 Tetrahydrofuran	71	6.415	6.409	0.006	74	8333	2.50	2.01	
51 Chloroform	83	6.549	6.549	0.000	93	34342	0.5000	0.4482	
$ 52 Dibromofluoromethane (Surr)	113	6.769	6.763	0.006	94	467435	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.775	6.769	0.006	40	29131	0.5000	0.4413	
54 Cyclohexane	56	6.872	6.866	0.006	89	32004	0.5000	0.4161	
56 Carbon tetrachloride	117	6.982	6.976	0.006	86	25082	0.5000	0.4315	
57 1,1-Dichloropropene	75	6.976	6.982	-0.006	96	25354	0.5000	0.4228	
58 Isobutyl alcohol	41	7.183	7.196	-0.013	92	18495	25.0	21.3	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.220	7.214	0.006	83	105375	10.0	10.1	
60 Benzene	78	7.256	7.250	0.006	92	81040	0.5000	0.4433	
61 1,2-Dichloroethane	62	7.324	7.318	0.006	96	24482	0.5000	0.4768	
63 Tert-amyl methyl ether	73	7.439	7.446	-0.007	98	53714	0.5000	0.4408	
* 64 Fluorobenzene (IS)	96	7.659	7.653	0.006	99	1875578	10.0	10.0	
65 n-Heptane	43	7.665	7.665	0.000	52	29178	0.5000	0.4196	
67 n-Butanol	56	8.086	8.086	0.000	91	29774	43.8	37.9	
68 Trichloroethene	95	8.134	8.134	0.000	98	21298	0.5000	0.4429	
69 Methylcyclohexane	83	8.433	8.439	-0.006	90	32844	0.5000	0.3988	
70 1,2-Dichloropropane	63	8.470	8.470	0.000	96	21244	0.5000	0.4516	
71 2-ethoxy-2-methyl butane	87	8.476	8.476	0.000	91	29633	0.5000	0.4358	
72 Methyl methacrylate	69	8.555	8.555	0.000	90	10454	0.5000	0.3917	
74 Dibromomethane	93	8.579	8.579	0.000	93	10701	0.5000	0.4538	
73 1,4-Dioxane	88	8.622	8.653	-0.031	27	1753	25.0	12.5	M
76 Dichlorobromomethane	83	8.817	8.817	0.000	99	25067	0.5000	0.4461	
77 2-Nitropropane	41	9.104	9.104	0.000	98	14899	2.50	1.98	
80 1-Bromo-2-chloroethane	63	9.213	9.207	0.006	97	24244	0.5000	0.4732	
81 cis-1,3-Dichloropropene	75	9.372	9.366	0.006	96	30391	0.5000	0.4355	
82 4-Methyl-2-pentanone (MIBK)	43	9.549	9.549	0.000	97	146329	5.00	4.10	
$ 83 Toluene-d8 (Surr)	98	9.677	9.677	0.000	93	1919172	10.0	10.0	
84 Toluene	92	9.756	9.756	0.000	98	53299	0.5000	0.4530	
96 trans-1,3-Dichloropropene	75	10.018	10.018	0.000	92	25116	0.5000	0.4276	
S 97 1,3-Dichloropropene, Total	100				0			0.8631	
98 Ethyl methacrylate	69	10.079	10.079	0.000	90	21078	0.5000	0.4156	
99 1,1,2-Trichloroethane	97	10.219	10.219	0.000	89	15502	0.5000	0.4324	
100 Tetrachloroethene	166	10.305	10.305	0.000	97	24431	0.5000	0.4361	
101 1,3-Dichloropropane	76	10.384	10.384	0.000	89	27066	0.5000	0.4468	
102 2-Hexanone	43	10.445	10.445	0.000	96	102992	5.00	3.97	
104 Chlorodibromomethane	129	10.597	10.597	0.000	89	19025	0.5000	0.4401	
105 Ethylene Dibromide	107	10.707	10.707	0.000	98	15317	0.5000	0.4399	
* 106 Chlorobenzene-d5 (IS)	117	11.146	11.140	0.006	85	1470938	10.0	10.0	
107 1-Chlorohexane	91	11.152	11.152	0.000	97	30317	0.5000	0.4461	
108 Chlorobenzene	112	11.170	11.170	0.000	95	59976	0.5000	0.4411	
S 109 Xylenes, Total	106				0			1.29	
110 1,1,1,2-Tetrachloroethane	131	11.250	11.250	0.000	94	19872	0.5000	0.4243	
111 Ethylbenzene	91	11.256	11.256	0.000	98	99191	0.5000	0.4361	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
112 m-Xylene & p-Xylene	106	11.372	11.372	0.000	100	75404	1.00	0.8533	
113 o-Xylene	106	11.701	11.701	0.000	96	38542	0.5000	0.4411	
114 Styrene	104	11.719	11.719	0.000	93	61389	0.5000	0.4167	
115 Bromoform	173	11.871	11.872	-0.001	97	11437	0.5000	0.4111	
116 Isopropylbenzene	105	11.999	12.000	-0.001	95	94259	0.5000	0.4227	
$ 119 4-Bromofluorobenzene (Surr)	95	12.146	12.146	0.000	94	698786	10.0	9.98	
120 1,1,2,2-Tetrachloroethane	83	12.249	12.250	-0.001	92	21368	0.5000	0.4566	
121 Bromobenzene	156	12.262	12.262	0.000	92	26789	0.5000	0.4506	
122 trans-1,4-Dichloro-2-butene	53	12.280	12.274	0.006	95	44835	5.00	3.45	
123 1,2,3-Trichloropropane	110	12.298	12.292	0.006	74	5734	0.5000	0.4496	
124 N-Propylbenzene	91	12.329	12.329	0.000	99	116945	0.5000	0.4319	
125 2-Chlorotoluene	126	12.408	12.408	0.000	97	24277	0.5000	0.4400	
126 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	93	83768	0.5000	0.4317	
127 4-Chlorotoluene	126	12.499	12.499	0.000	96	25036	0.5000	0.4338	
128 tert-Butylbenzene	134	12.713	12.707	0.006	93	17899	0.5000	0.4259	
129 Pentachloroethane	167	12.743	12.743	0.000	79	16636	0.5000	0.4473	
130 1,2,4-Trimethylbenzene	105	12.749	12.749	0.000	97	85067	0.5000	0.4233	
131 sec-Butylbenzene	105	12.871	12.871	0.000	94	103229	0.5000	0.4169	
132 1,3-Dichlorobenzene	146	12.975	12.969	0.006	98	54656	0.5000	0.4535	
133 4-Isopropyltoluene	119	12.981	12.981	0.000	97	89017	0.5000	0.4116	
* 134 1,4-Dichlorobenzene-d4	152	13.024	13.024	0.000	94	857900	10.0	10.0	
135 1,4-Dichlorobenzene	146	13.042	13.042	0.000	95	55669	0.5000	0.4483	
136 1,2,3-Trimethylbenzene	120	13.054	13.054	0.000	98	41606	0.5000	0.4492	
137 Benzyl chloride	126	13.121	13.121	0.000	98	7232	0.5000	0.4005	
138 p-Diethylbenzene	119	13.182	13.182	0.000	92	56000	0.5000	0.4196	
139 n-Butylbenzene	92	13.274	13.274	0.000	97	48919	0.5000	0.4298	
140 1,2-Dichlorobenzene	146	13.304	13.304	0.000	98	52551	0.5000	0.4583	
142 1,2-Dibromo-3-Chloropropane	155	13.847	13.847	0.000	85	3145	0.5000	0.4179	
143 1,3,5-Trichlorobenzene	180	13.969	13.969	0.000	98	44292	0.5000	0.4414	
144 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	40328	0.5000	0.4407	
145 Hexachlorobutadiene	225	14.475	14.475	0.000	95	20037	0.5000	0.4418	
146 Naphthalene	128	14.578	14.578	0.000	96	68200	0.5000	0.4232	
147 1,2,3-Trichlorobenzene	180	14.718	14.719	-0.001	94	35843	0.5000	0.4389	
148 2-Methylnaphthalene	142	15.334	15.340	-0.006	93	40068	0.5000	0.3985	
160 Pentane	43	2.989	2.983	0.006	97	29467	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00011	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00018	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00011	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00020	Amount Added:	1.00	Units: uL	Run Reagent

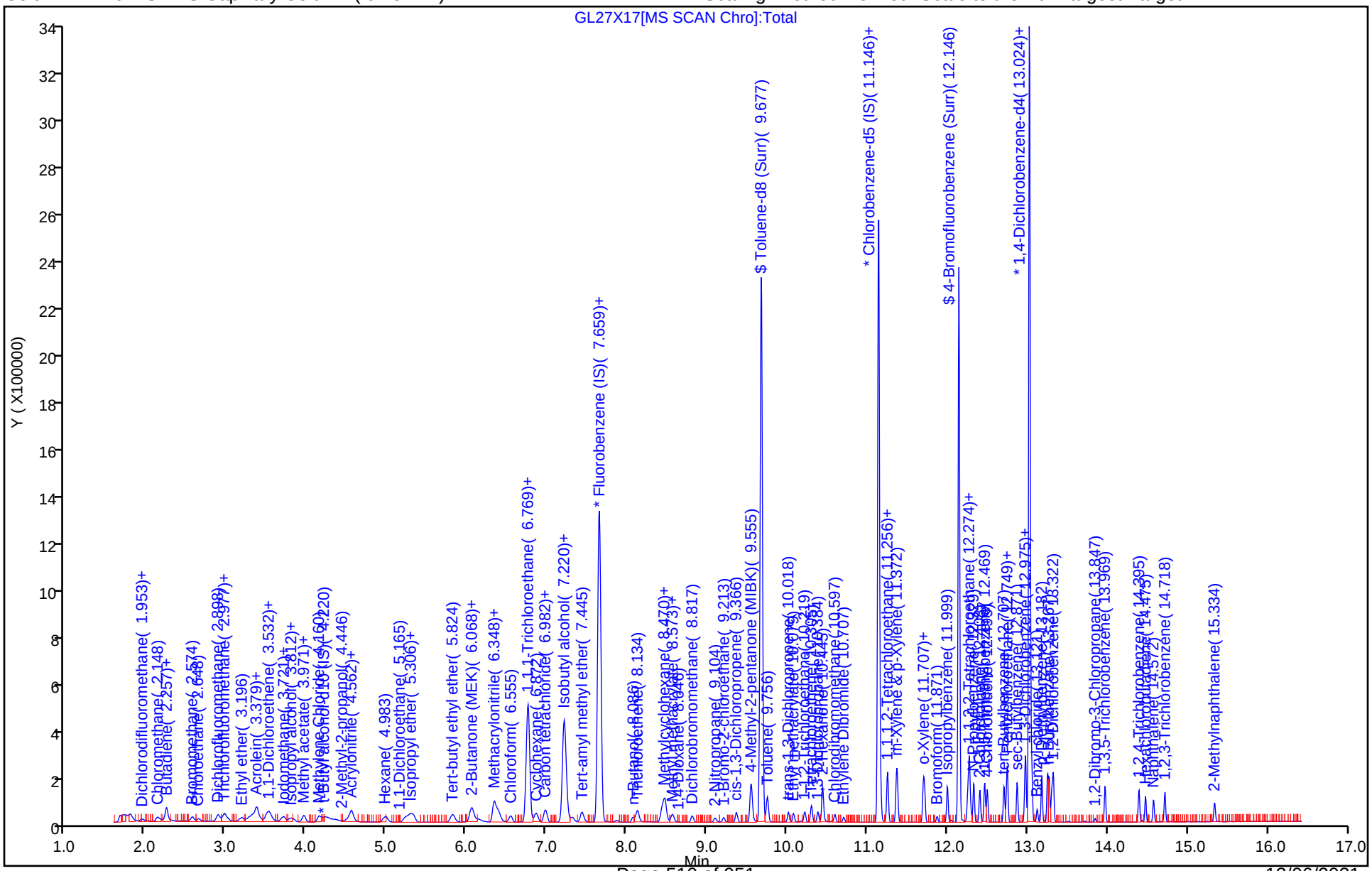
Report Date: 05-Aug-2021 16:13:01 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X17.D

Injection Date:	27-Jul-2021 21:25:30	Instrument ID:	16334	Operator ID:	kas02648
Lims ID:	IC std2			Worklist Smp#:	17
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

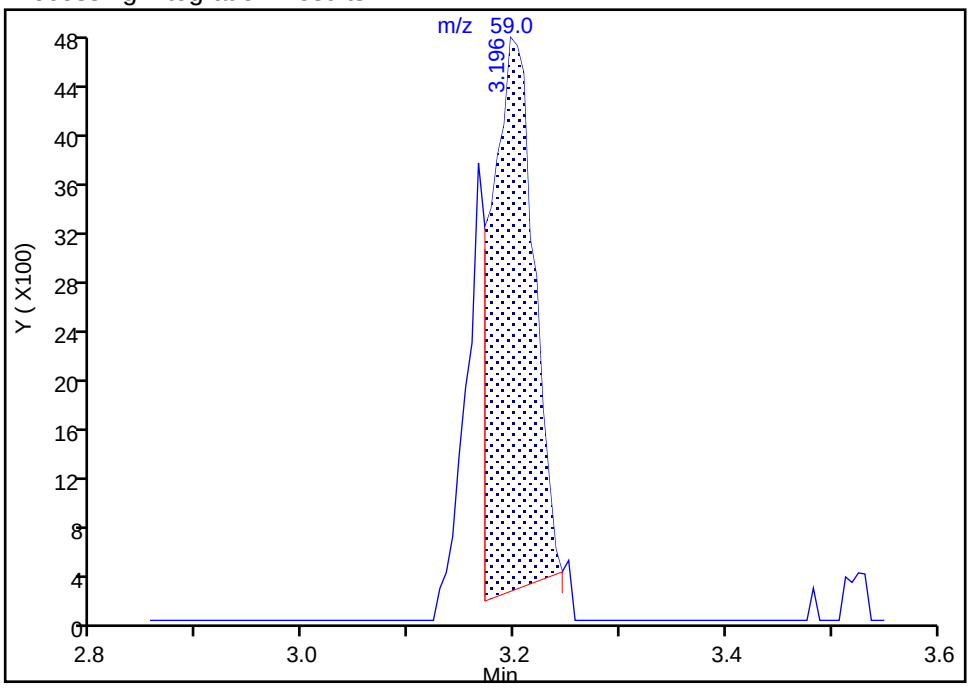
Data File:	\\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X17.D				
Injection Date:	27-Jul-2021 21:25:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

15 Ethyl ether, CAS: 60-29-7

Signal: 1

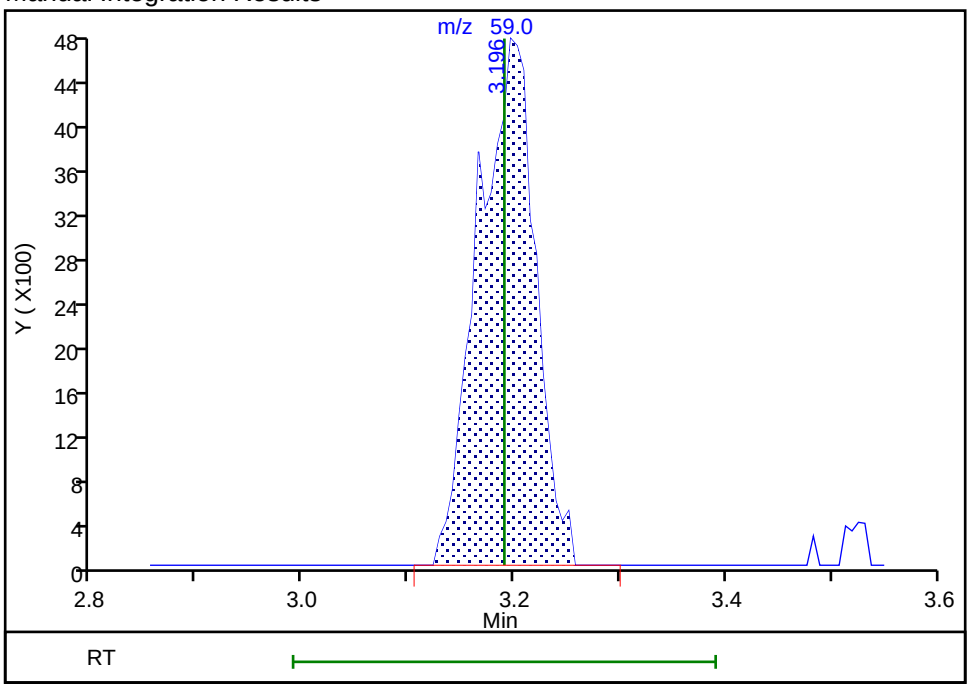
Processing Integration Results

RT: 3.20
Area: 12636
Amount: 0.357279
Amount Units: ug/l



Manual Integration Results

RT: 3.20
Area: 18010
Amount: 0.488041
Amount Units: ug/l



Reviewer: spositok, 28-Jul-2021 12:01:23

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

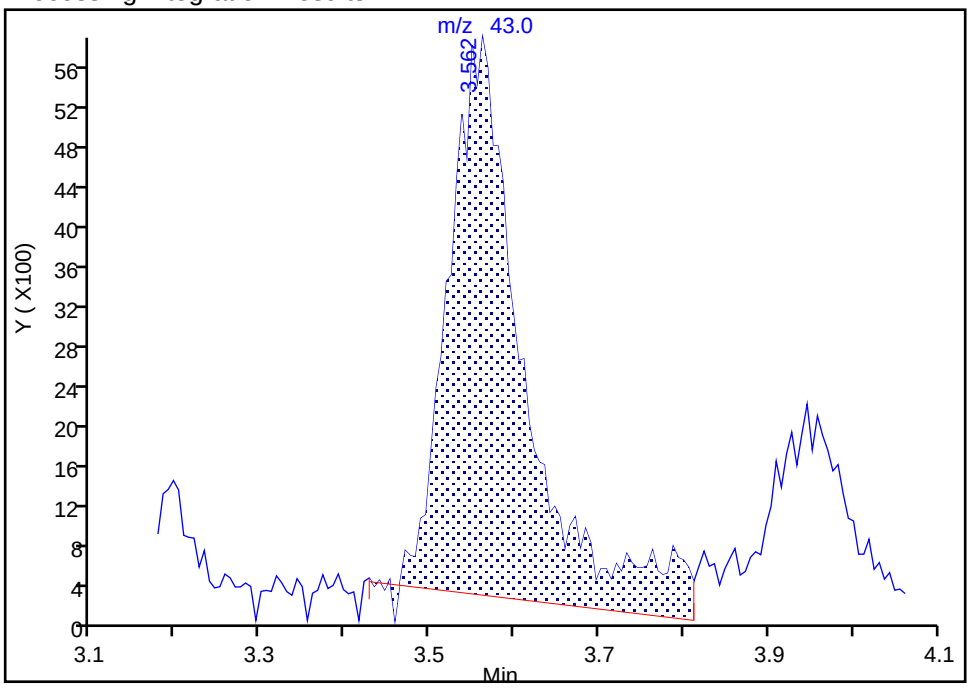
Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X17.D
Injection Date: 27-Jul-2021 21:25:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

21 Acetone, CAS: 67-64-1

Signal: 1

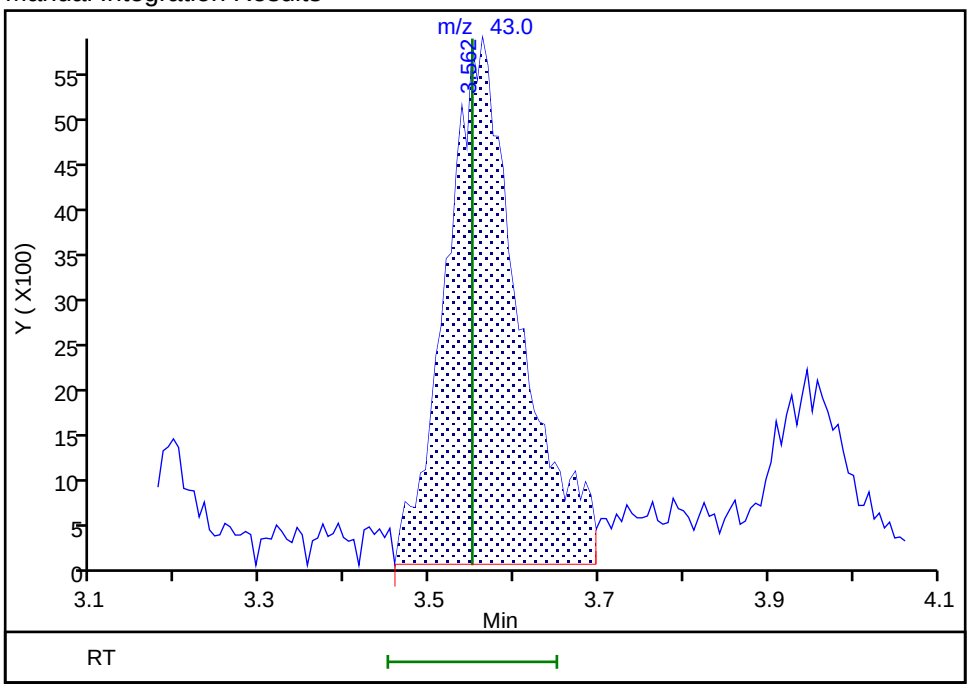
Processing Integration Results

RT: 3.56
Area: 35033
Amount: 4.612348
Amount Units: ug/l



Manual Integration Results

RT: 3.56
Area: 34939
Amount: 4.601599
Amount Units: ug/l



Reviewer: spositok, 28-Jul-2021 12:02:01
Audit Action: Assigned New Baseline Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

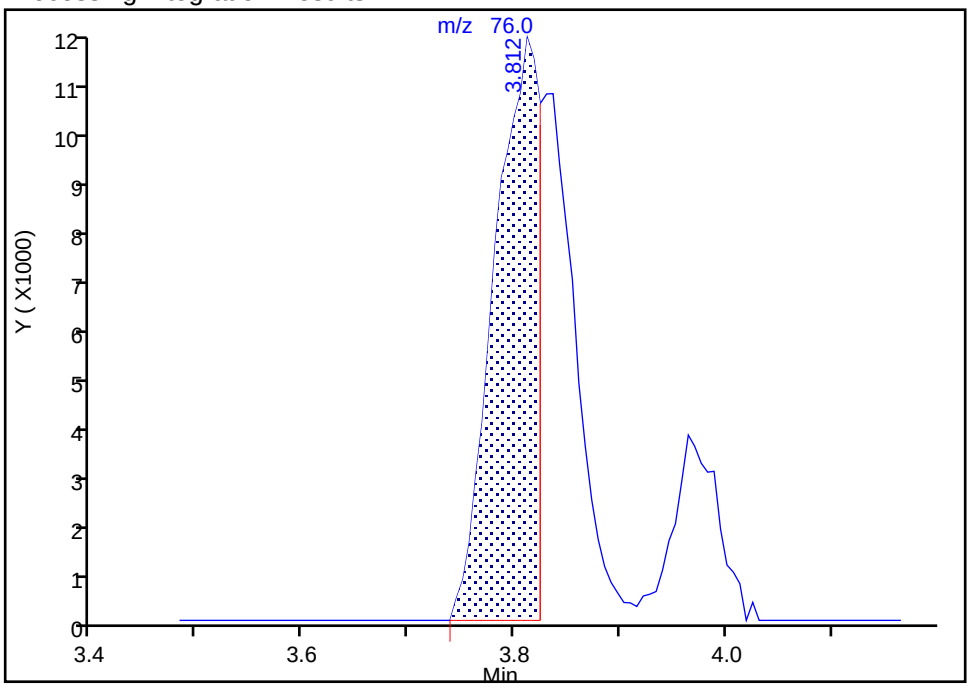
Data File:	\\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X17.D				
Injection Date:	27-Jul-2021 21:25:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

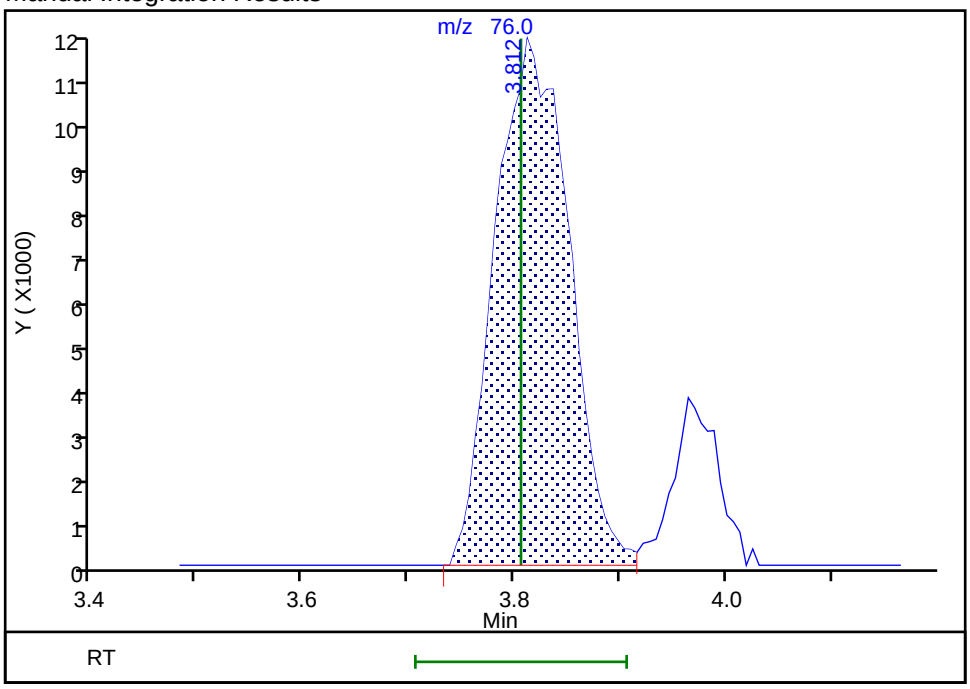
Processing Integration Results

RT: 3.81
Area: 35361
Amount: 0.274054
Amount Units: ug/l



Manual Integration Results

RT: 3.81
Area: 57933
Amount: 0.427618
Amount Units: ug/l



Reviewer: spositok, 28-Jul-2021 12:02:25

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

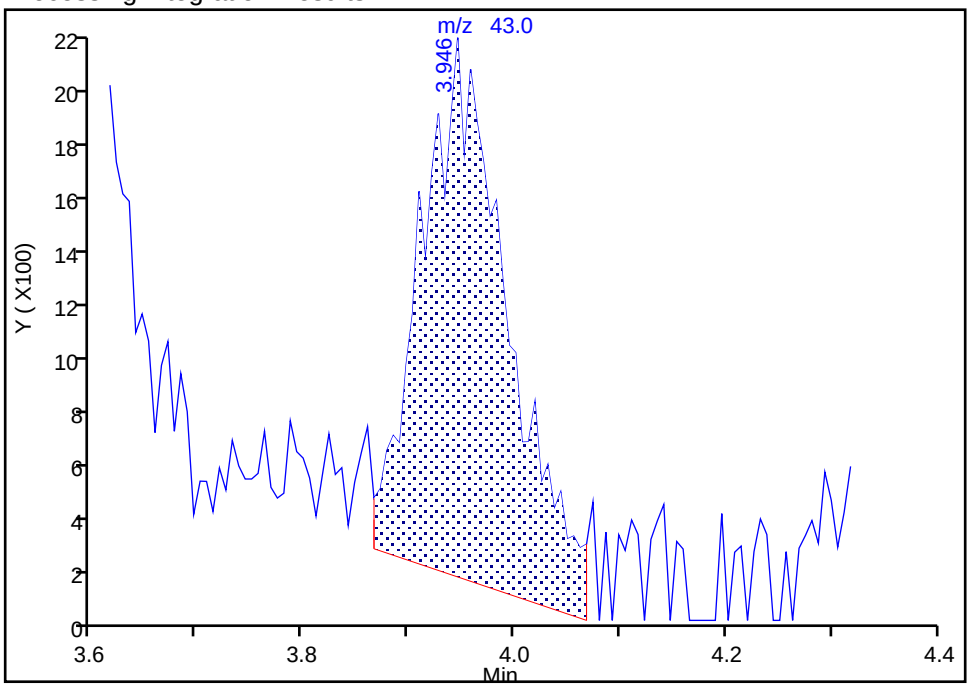
Data File:	\\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X17.D				
Injection Date:	27-Jul-2021 21:25:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

27 Methyl acetate, CAS: 79-20-9

Signal: 1

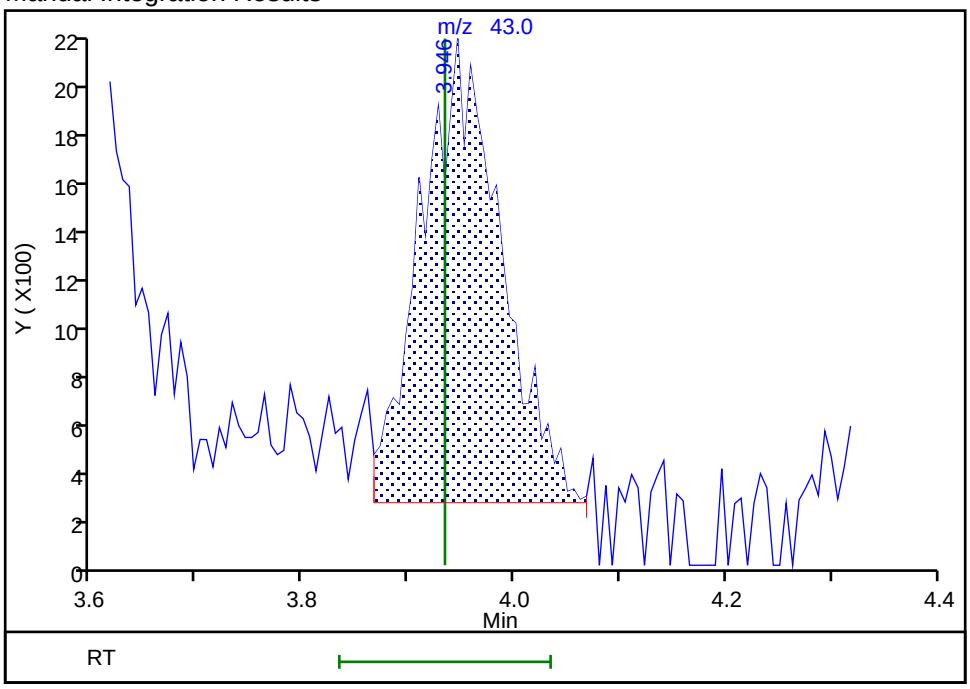
Processing Integration Results

RT: 3.95
Area: 11553
Amount: 0.489012
Amount Units: ug/l



Manual Integration Results

RT: 3.95
Area: 10005
Amount: 0.431568
Amount Units: ug/l



Reviewer: spositok, 28-Jul-2021 12:02:47
Audit Action: Assigned New Baseline Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

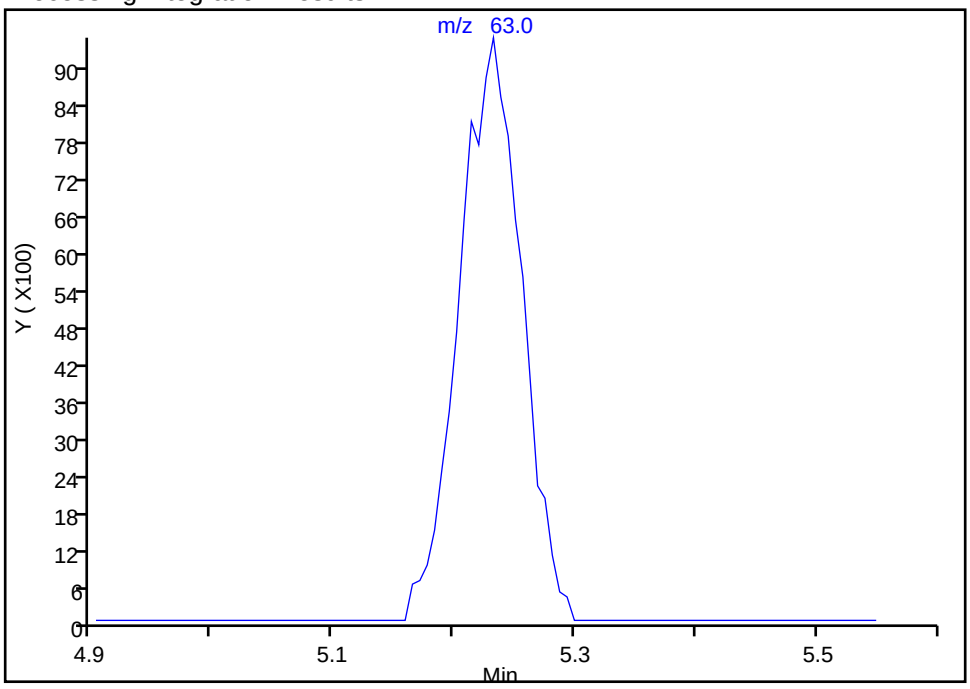
Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X17.D
Injection Date: 27-Jul-2021 21:25:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

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

Signal: 1

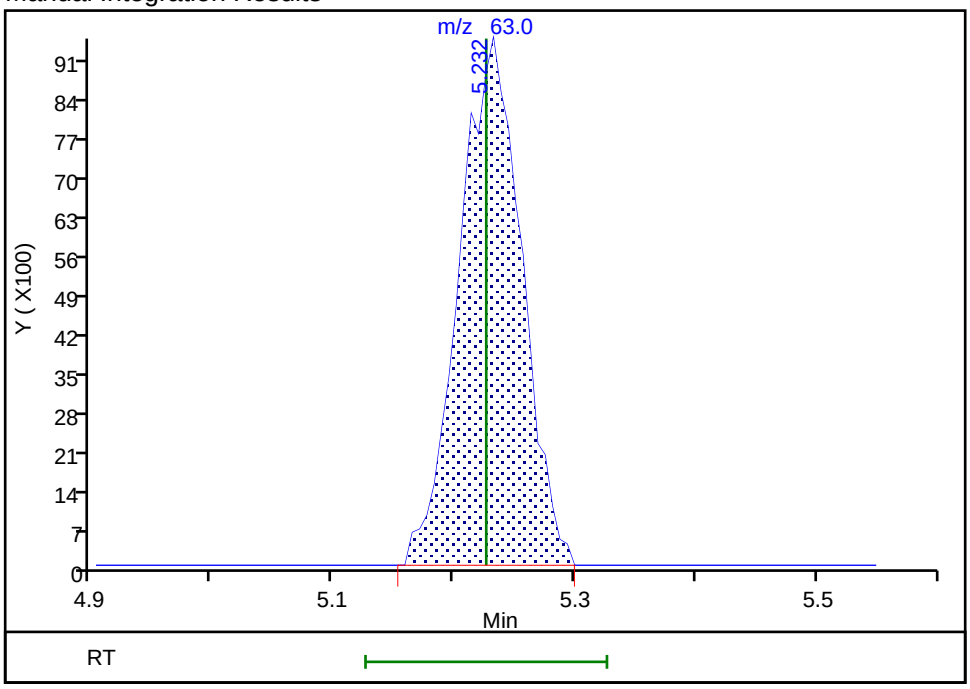
Not Detected
Expected RT: 5.23

Processing Integration Results



Manual Integration Results

RT: 5.23
Area: 34195
Amount: 0.444359
Amount Units: ug/l



Reviewer: spositok, 28-Jul-2021 12:02:59
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

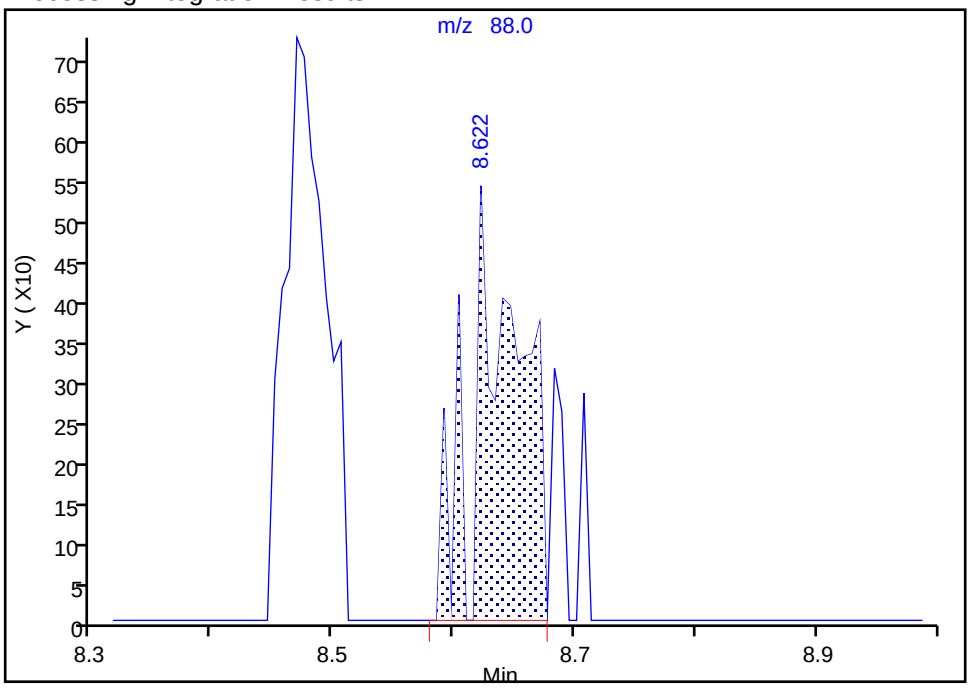
Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X17.D
Injection Date: 27-Jul-2021 21:25:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: kas02648 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

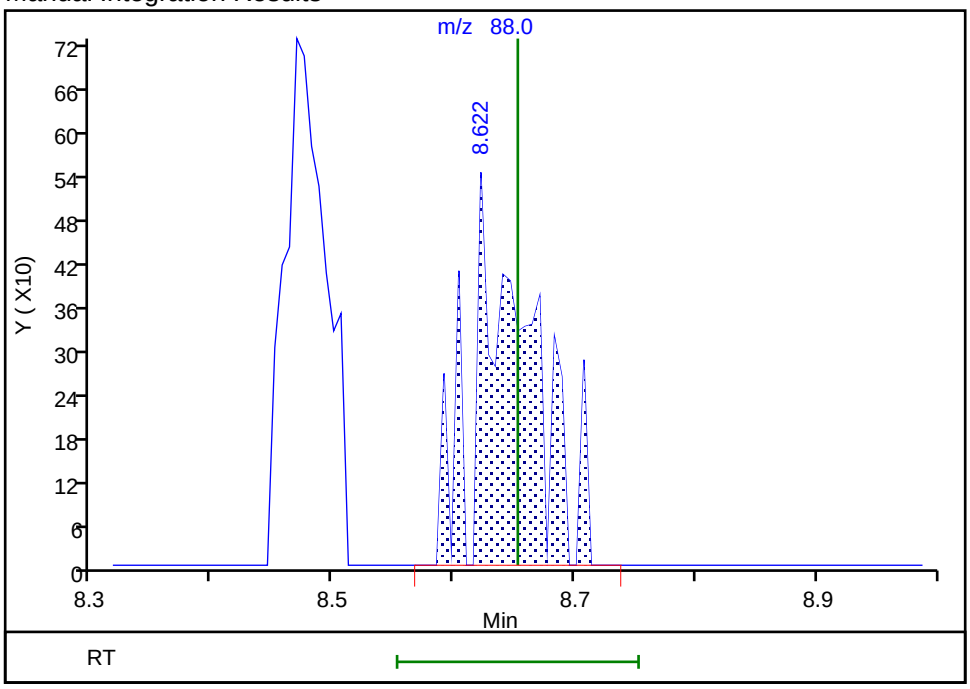
Processing Integration Results

RT: 8.62
Area: 1438
Amount: 15.368858
Amount Units: ug/l



Manual Integration Results

RT: 8.62
Area: 1753
Amount: 12.519322
Amount Units: ug/l



Reviewer: spositok, 28-Jul-2021 12:01:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D
Lims ID: IC std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 27-Jul-2021 21:47:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0035331-018
Misc. Info.: IC STD1
Operator ID: kas02648 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 05-Aug-2021 16:13:07 Calib Date: 27-Jul-2021 21:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1675

First Level Reviewer: spositok Date: 28-Jul-2021 12:05:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.953	1.934	0.019	96	7861	0.2000	0.1676	
5 Chloromethane	50	2.142	2.136	0.006	98	12968	0.2000	0.2215	
7 Butadiene	39	2.245	2.245	0.000	96	14603	0.2000	0.2344	
8 Vinyl chloride	62	2.264	2.251	0.013	85	11198	0.2000	0.1969	
9 Bromomethane	94	2.581	2.568	0.013	91	8518	0.2000	0.2097	
10 Chloroethane	64	2.660	2.648	0.012	99	6729	0.2000	0.1984	
12 Dichlorofluoromethane	67	2.910	2.892	0.018	95	15827	0.2000	0.2008	
13 Trichlorofluoromethane	101	2.971	2.959	0.012	95	13852	0.2000	0.1900	M
15 Ethyl ether	59	3.202	3.190	0.012	92	7191	0.2000	0.1946	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.306	3.288	0.018	85	10536	0.2000	0.1945	M
18 Acrolein	56	3.379	3.367	0.012	99	59676	10.0	8.87	
19 1,1-Dichloroethene	96	3.501	3.501	0.000	96	7309	0.2000	0.1865	
20 112TCTFE	101	3.538	3.532	0.006	88	7554	0.2000	0.1778	
21 Acetone	43	3.568	3.550	0.018	91	21216	2.00	2.58	
23 Iodomethane	142	3.690	3.696	-0.006	99	14499	0.2000	0.1954	
24 Ethyl bromide	108	3.727	3.715	0.012	93	6734	0.1999	0.1934	
22 Isopropyl alcohol	45	3.794	3.800	-0.006	31	4453	4.00	4.03	
25 Carbon disulfide	76	3.818	3.806	0.012	98	25874	0.2000	0.1907	
27 Methyl acetate	43	3.952	3.934	0.018	25	4689	0.2000	0.1870	
28 3-Chloro-1-propene	41	3.971	3.965	0.006	93	13465	0.2000	0.2011	
29 Methylene Chloride	84	4.153	4.154	-0.001	91	8567	0.2000	0.1907	
* 30 t-Butyl alcohol-d10 (IS)	65	4.257	4.257	0.000	96	158566	50.0	50.0	
31 2-Methyl-2-propanol	59	4.391	4.367	0.024	95	9978	4.00	3.67	
32 Acrylonitrile	53	4.501	4.501	0.000	44	3968	0.5000	0.3472	
33 Methyl tert-butyl ether	73	4.568	4.550	0.018	88	21385	0.2000	0.1885	
34 trans-1,2-Dichloroethene	96	4.556	4.556	0.000	98	8457	0.2000	0.1929	M
35 Hexane	57	4.989	4.983	0.006	92	10567	0.2000	0.1668	
37 1,1-Dichloroethane	63	5.239	5.226	0.013	94	14921	0.2000	0.1936	
38 Isopropyl ether	45	5.300	5.287	0.013	95	26395	0.2000	0.1856	
39 2-Chloro-1,3-butadiene	53	5.342	5.336	0.006	88	11510	0.2000	0.1821	M

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 Tert-butyl ethyl ether	59	5.830	5.824	0.006	97	24423	0.2000	0.1883	
41 2-Butanone (MEK)	43	6.049	6.043	0.006	99	26998	2.00	1.71	
42 cis-1,2-Dichloroethene	96	6.074	6.062	0.012	81	9383	0.2000	0.1922	
43 2,2-Dichloropropane	77	6.086	6.080	0.006	88	10367	0.2000	0.1816	
45 Propionitrile	54	6.165	6.153	0.012	97	13462	4.00	3.32	
S 46 1,2-Dichloroethene, Total	100				0			0.3851	
48 Methacrylonitrile	67	6.354	6.348	0.006	91	24262	2.00	1.60	
49 Chlorobromomethane	128	6.397	6.391	0.006	80	4205	0.2000	0.1860	
50 Tetrahydrofuran	71	6.409	6.409	0.000	60	3430	1.00	0.7656	
51 Chloroform	83	6.555	6.549	0.006	92	14545	0.2000	0.1896	
$ 52 Dibromofluoromethane (Surr)	113	6.769	6.763	0.006	94	470752	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.775	6.769	0.006	80	12174	0.2000	0.1842	
54 Cyclohexane	56	6.866	6.866	0.000	89	12606	0.2000	0.1637	
56 Carbon tetrachloride	117	6.976	6.976	0.000	88	10415	0.2000	0.1789	
57 1,1-Dichloropropene	75	6.982	6.982	0.000	94	10716	0.2000	0.1785	M
58 Isobutyl alcohol	41	7.196	7.196	0.000	89	9165	10.0	10.5	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.220	7.214	0.006	85	105513	10.0	10.1	
60 Benzene	78	7.250	7.250	0.000	93	35835	0.2000	0.1957	
61 1,2-Dichloroethane	62	7.324	7.318	0.006	94	10837	0.2000	0.2108	
63 Tert-amyl methyl ether	73	7.452	7.446	0.006	98	22599	0.2000	0.1852	M
* 64 Fluorobenzene (IS)	96	7.659	7.653	0.006	99	1878059	10.0	10.0	
65 n-Heptane	43	7.665	7.665	0.000	37	12688	0.2000	0.1822	
67 n-Butanol	56	8.080	8.086	-0.006	90	13839	17.5	16.3	
68 Trichloroethene	95	8.128	8.134	-0.006	97	9474	0.2000	0.1968	
69 Methylcyclohexane	83	8.439	8.439	0.000	82	13746	0.2000	0.1667	
70 1,2-Dichloropropane	63	8.470	8.470	0.000	83	8624	0.2000	0.1831	
71 2-ethoxy-2-methyl butane	87	8.476	8.476	0.000	90	12148	0.2000	0.1784	
72 Methyl methacrylate	69	8.561	8.555	0.006	93	4182	0.2000	0.1449	
74 Dibromomethane	93	8.579	8.579	0.000	96	4317	0.2000	0.1828	
73 1,4-Dioxane	88		8.653				ND	ND	U
76 Dichlorobromomethane	83	8.817	8.817	0.000	98	10440	0.2000	0.1855	
77 2-Nitropropane	41	9.098	9.104	-0.006	95	6637	1.00	0.8137	
80 1-Bromo-2-chloroethane	63	9.207	9.207	0.000	96	9810	0.2000	0.1912	
81 cis-1,3-Dichloropropene	75	9.372	9.366	0.006	95	11343	0.2000	0.1623	
82 4-Methyl-2-pentanone (MIBK)	43	9.555	9.549	0.006	96	57982	2.00	1.50	
$ 83 Toluene-d8 (Surr)	98	9.677	9.677	0.000	94	1917346	10.0	10.0	
84 Toluene	92	9.756	9.756	0.000	98	22427	0.2000	0.1906	
96 trans-1,3-Dichloropropene	75	10.018	10.018	0.000	91	9997	0.2000	0.1702	
S 97 1,3-Dichloropropene, Total	100				0			0.3325	
98 Ethyl methacrylate	69	10.079	10.079	0.000	90	8211	0.2000	0.1619	
99 1,1,2-Trichloroethane	97	10.225	10.219	0.006	89	6754	0.2000	0.1884	
100 Tetrachloroethene	166	10.305	10.305	0.000	97	10275	0.2000	0.1834	
101 1,3-Dichloropropane	76	10.384	10.384	0.000	91	11562	0.2000	0.1908	
102 2-Hexanone	43	10.445	10.445	0.000	96	41631	2.00	1.48	
104 Chlorodibromomethane	129	10.603	10.597	0.006	90	7476	0.2000	0.1729	
105 Ethylene Dibromide	107	10.713	10.707	0.006	96	6351	0.2000	0.1824	
* 106 Chlorobenzene-d5 (IS)	117	11.146	11.140	0.006	85	1471101	10.0	10.0	
107 1-Chlorohexane	91	11.152	11.152	0.000	74	14405	0.2000	0.2120	
108 Chlorobenzene	112	11.170	11.170	0.000	96	26408	0.2000	0.1942	
S 109 Xylenes, Total	106				0			0.5386	
110 1,1,1,2-Tetrachloroethane	131	11.250	11.250	0.000	43	8742	0.2000	0.1866	
111 Ethylbenzene	91	11.256	11.256	0.000	98	43770	0.2000	0.1924	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
112 m-Xylene & p-Xylene	106	11.372	11.372	0.000	99	31964	0.4000	0.3617	
113 o-Xylene	106	11.701	11.701	0.000	96	15463	0.2000	0.1770	
114 Styrene	104	11.719	11.719	0.000	95	25579	0.2000	0.1736	
115 Bromoform	173	11.872	11.872	0.000	95	4912	0.2000	0.1765	
116 Isopropylbenzene	105	12.000	12.000	0.000	96	39012	0.2000	0.1749	
$ 119 4-Bromofluorobenzene (Surr)	95	12.146	12.146	0.000	94	694165	10.0	9.91	
120 1,1,2,2-Tetrachloroethane	83	12.249	12.250	-0.001	93	8736	0.2000	0.1865	
121 Bromobenzene	156	12.262	12.262	0.000	91	11689	0.2000	0.1965	
122 trans-1,4-Dichloro-2-butene	53	12.274	12.274	0.000	94	18256	2.00	1.30	
123 1,2,3-Trichloropropane	110	12.292	12.292	0.000	74	2212	0.2000	0.1733	
124 N-Propylbenzene	91	12.329	12.329	0.000	99	49923	0.2000	0.1842	
125 2-Chlorotoluene	126	12.408	12.408	0.000	96	10097	0.2000	0.1829	
126 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	94	35155	0.2000	0.1810	
127 4-Chlorotoluene	126	12.499	12.499	0.000	96	10880	0.2000	0.1884	
128 tert-Butylbenzene	134	12.713	12.707	0.006	93	7219	0.2000	0.1716	
129 Pentachloroethane	167	12.743	12.743	0.000	78	6573	0.2000	0.1766	
130 1,2,4-Trimethylbenzene	105	12.749	12.749	0.000	97	34861	0.2000	0.1733	
131 sec-Butylbenzene	105	12.871	12.871	0.000	93	44335	0.2000	0.1789	
132 1,3-Dichlorobenzene	146	12.969	12.969	0.000	96	22007	0.2000	0.1825	
133 4-Isopropyltoluene	119	12.981	12.981	0.000	98	37102	0.2000	0.1714	
* 134 1,4-Dichlorobenzene-d4	152	13.030	13.024	0.006	94	858555	10.0	10.0	
135 1,4-Dichlorobenzene	146	13.042	13.042	0.000	94	24548	0.2000	0.1975	
136 1,2,3-Trimethylbenzene	120	13.054	13.054	0.000	97	17211	0.2000	0.1857	
137 Benzyl chloride	126	13.121	13.121	0.000	98	2768	0.2000	0.1532	
138 p-Diethylbenzene	119	13.182	13.182	0.000	92	23266	0.2000	0.1742	
139 n-Butylbenzene	92	13.274	13.274	0.000	98	20369	0.2000	0.1788	
140 1,2-Dichlorobenzene	146	13.304	13.304	0.000	99	21843	0.2000	0.1904	
142 1,2-Dibromo-3-Chloropropane	155	13.847	13.847	0.000	88	1325	0.2000	0.1759	
143 1,3,5-Trichlorobenzene	180	13.969	13.969	0.000	97	19403	0.2000	0.1932	
144 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	92	17354	0.2000	0.1895	
145 Hexachlorobutadiene	225	14.475	14.475	0.000	95	8511	0.2000	0.1875	
146 Naphthalene	128	14.572	14.578	-0.006	97	28044	0.2000	0.1739	
147 1,2,3-Trichlorobenzene	180	14.719	14.719	-0.001	97	15594	0.2000	0.1908	
148 2-Methylnaphthalene	142	15.340	15.340	0.000	92	16637	0.2000	0.1653	
160 Pentane	43	2.983	2.983	0.000	91	14706	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_LL_#1_826_00011	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00018	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00011	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00020	Amount Added:	1.00	Units: uL	Run Reagent

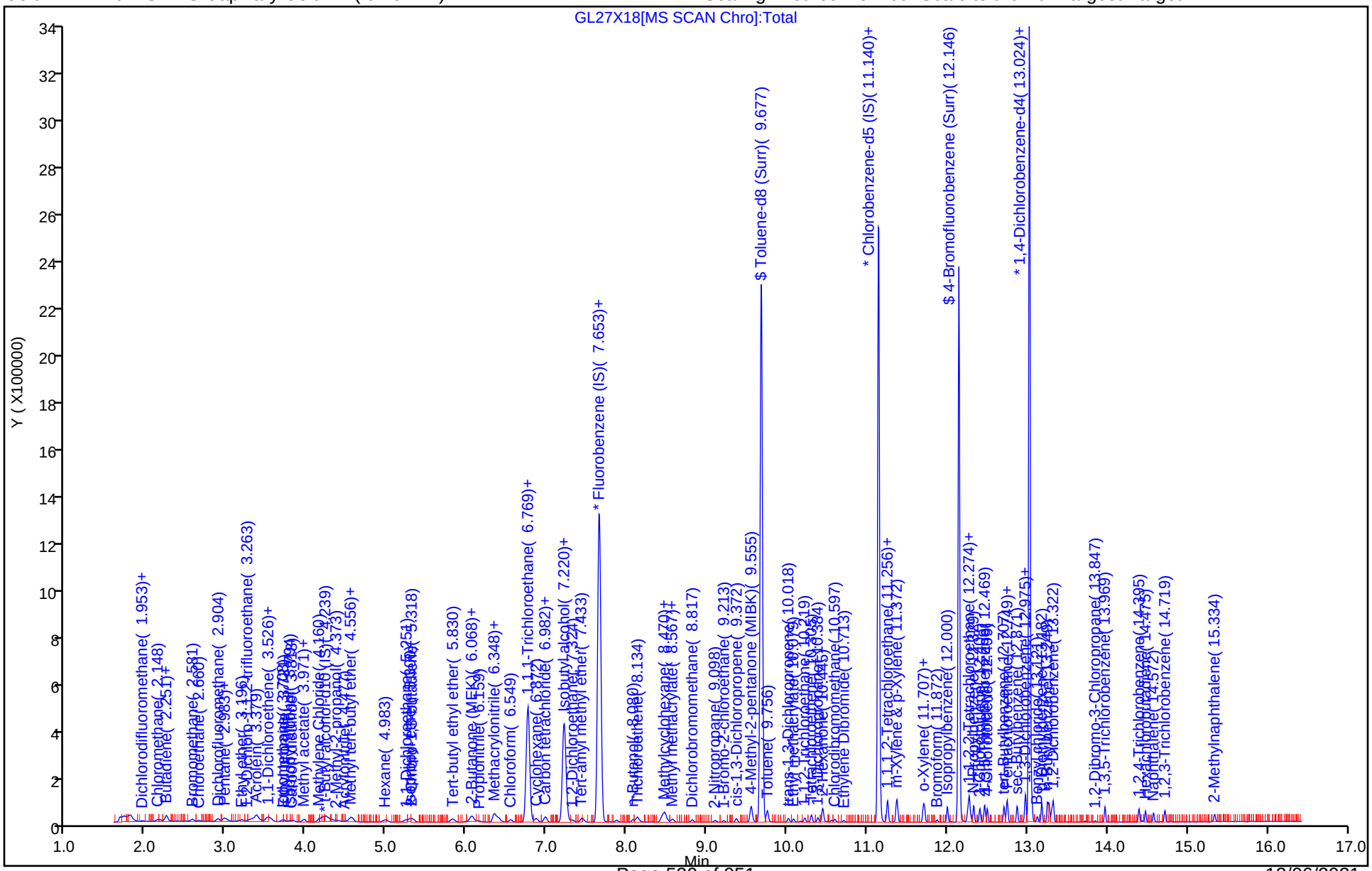
Report Date: 05-Aug-2021 16:13:08 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D

Injection Date:	27-Jul-2021 21:47:30	Instrument ID:	16334	Operator ID:	kas02648
Lims ID:	IC std1			Worklist Smp#:	18
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

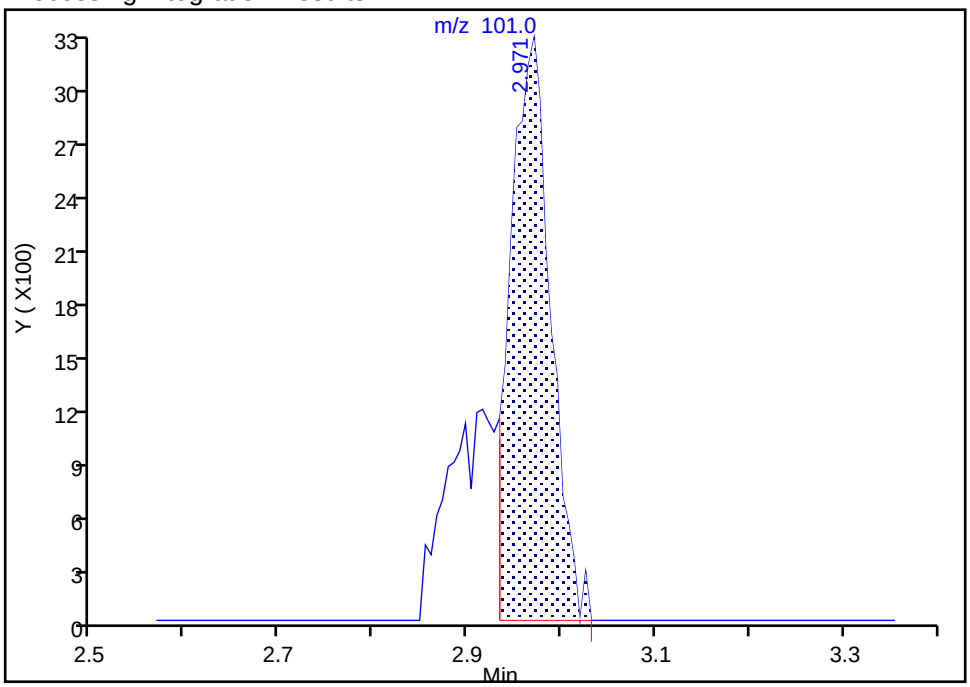
Data File:	\\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D				
Injection Date:	27-Jul-2021 21:47:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

13 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

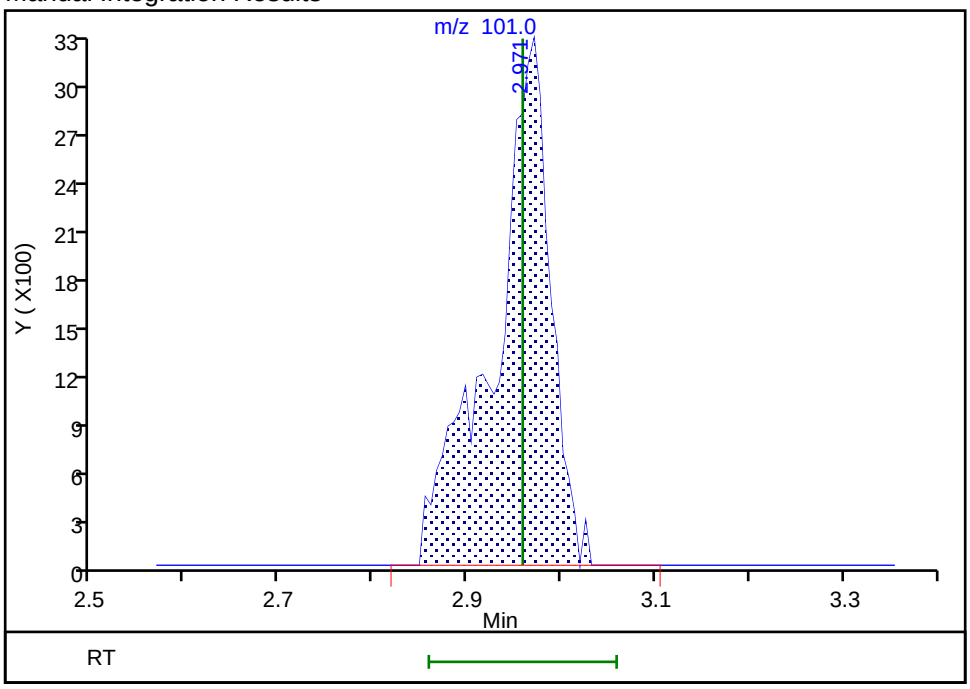
Processing Integration Results

RT: 2.97
Area: 9760
Amount: 0.139428
Amount Units: ug/l



Manual Integration Results

RT: 2.97
Area: 13852
Amount: 0.189953
Amount Units: ug/l



Reviewer: spositok, 28-Jul-2021 12:04:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

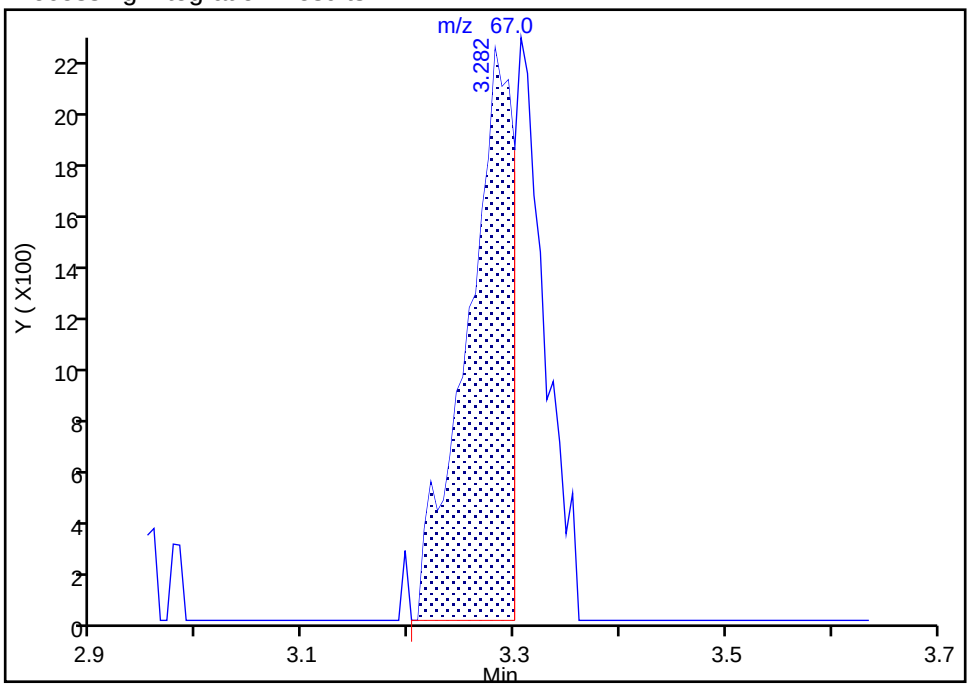
Data File:	\\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D				
Injection Date:	27-Jul-2021 21:47:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

17 1,2-Dichloro-1,1,2-trifluoroetha, CAS: 354-23-4

Signal: 1

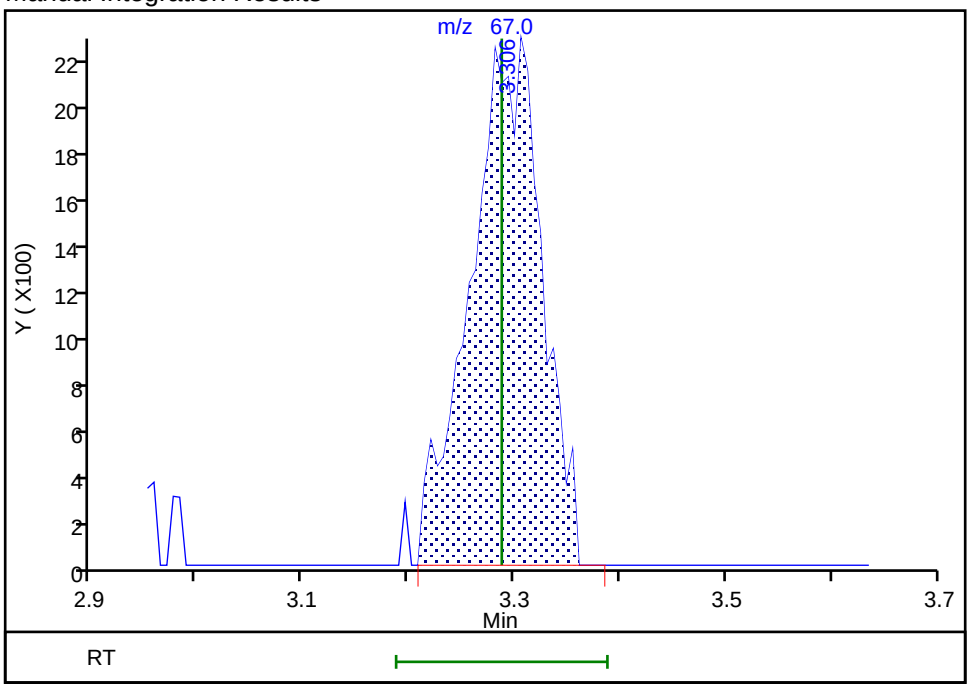
Processing Integration Results

RT: 3.28
Area: 6638
Amount: 0.129202
Amount Units: ug/l



Manual Integration Results

RT: 3.31
Area: 10536
Amount: 0.194530
Amount Units: ug/l



Reviewer: spositok, 28-Jul-2021 12:04:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

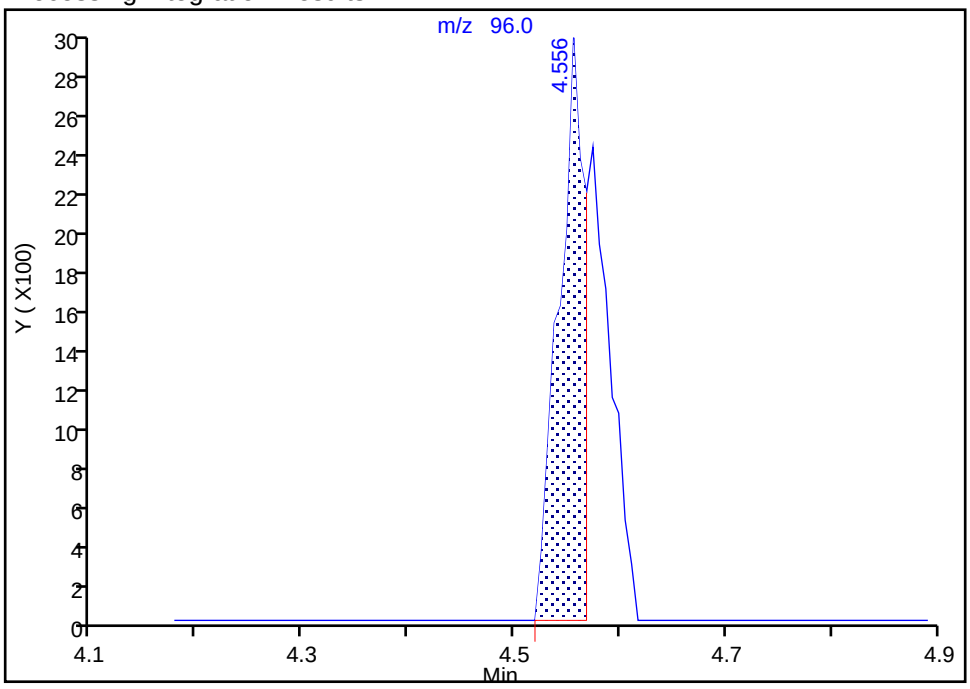
Data File:	\\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D				
Injection Date:	27-Jul-2021 21:47:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

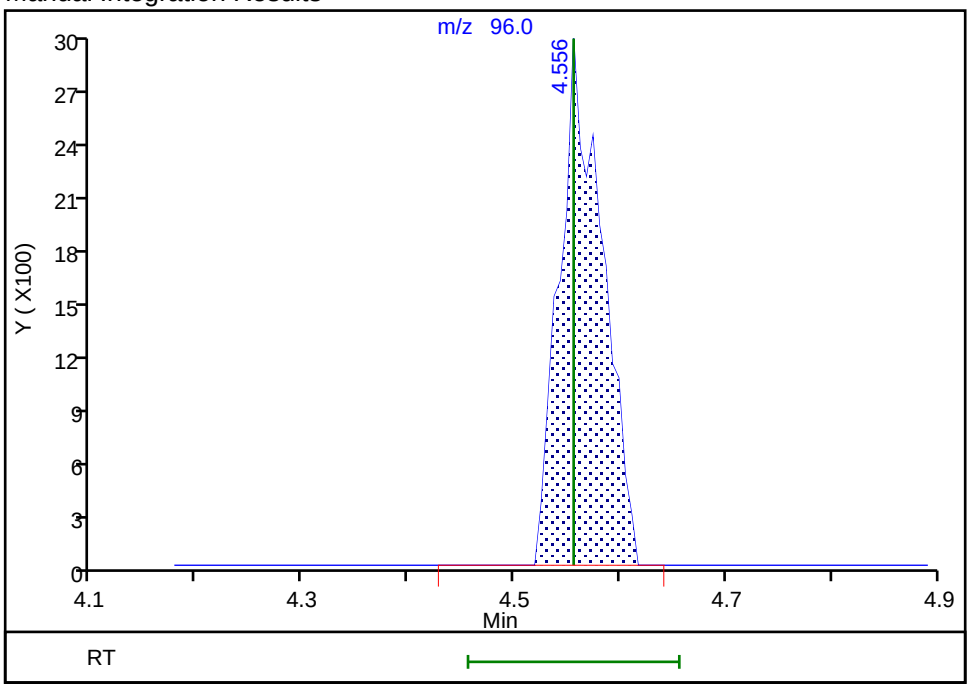
Processing Integration Results

RT: 4.56
Area: 5129
Amount: 0.123711
Amount Units: ug/l



Manual Integration Results

RT: 4.56
Area: 8457
Amount: 0.192921
Amount Units: ug/l



Reviewer: knouses, 05-Aug-2021 12:23:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

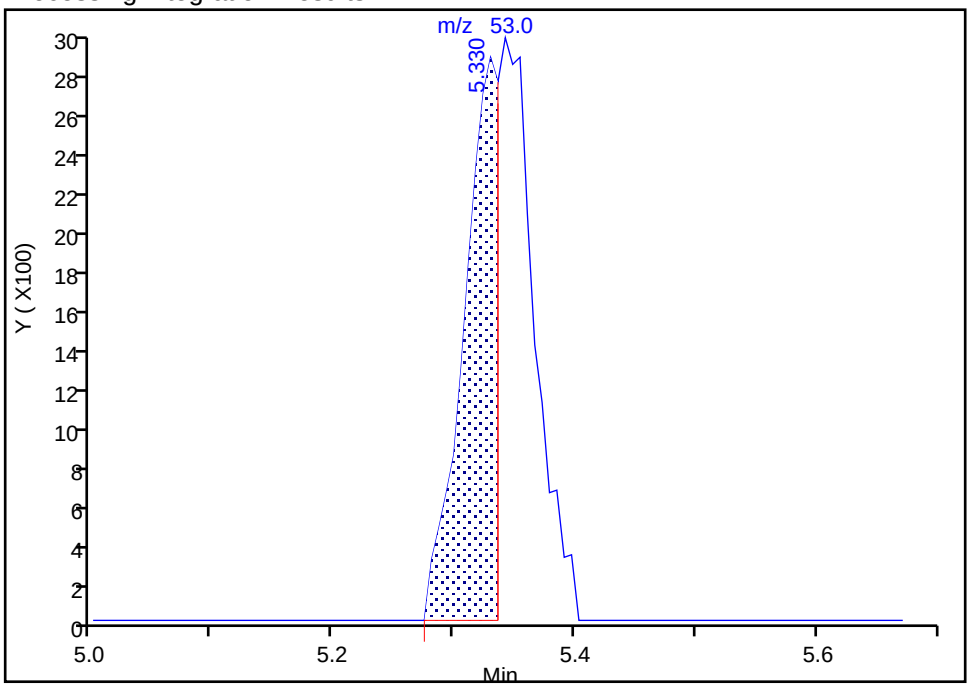
Data File:	\\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D				
Injection Date:	27-Jul-2021 21:47:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

39 2-Chloro-1,3-butadiene, CAS: 126-99-8

Signal: 1

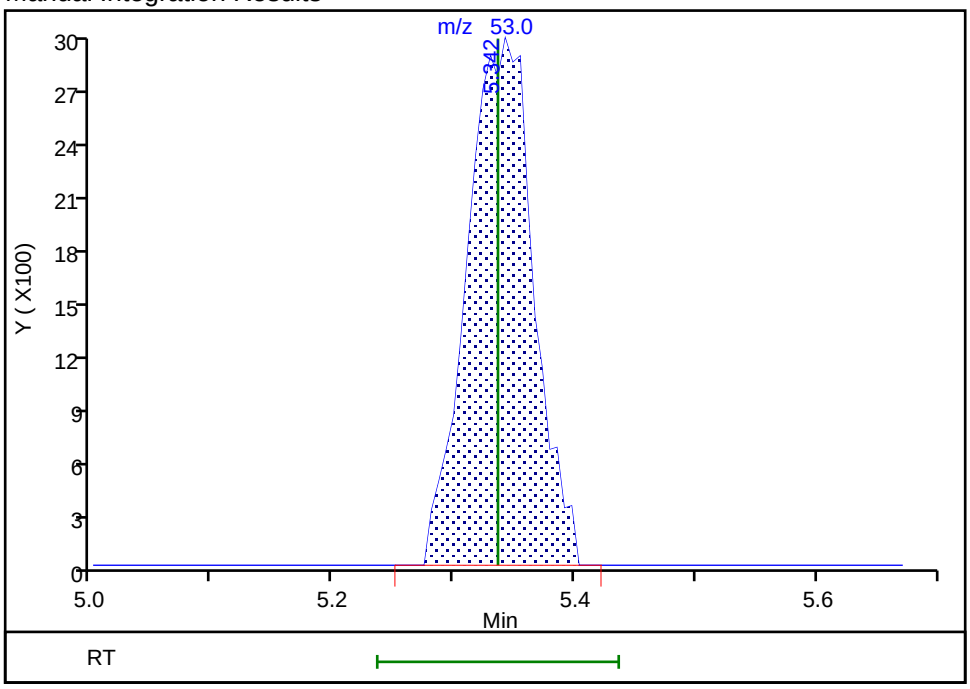
Processing Integration Results

RT: 5.33
Area: 5896
Amount: 0.145112
Amount Units: ug/l



Manual Integration Results

RT: 5.34
Area: 11510
Amount: 0.182068
Amount Units: ug/l



Reviewer: spositok, 28-Jul-2021 12:04:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

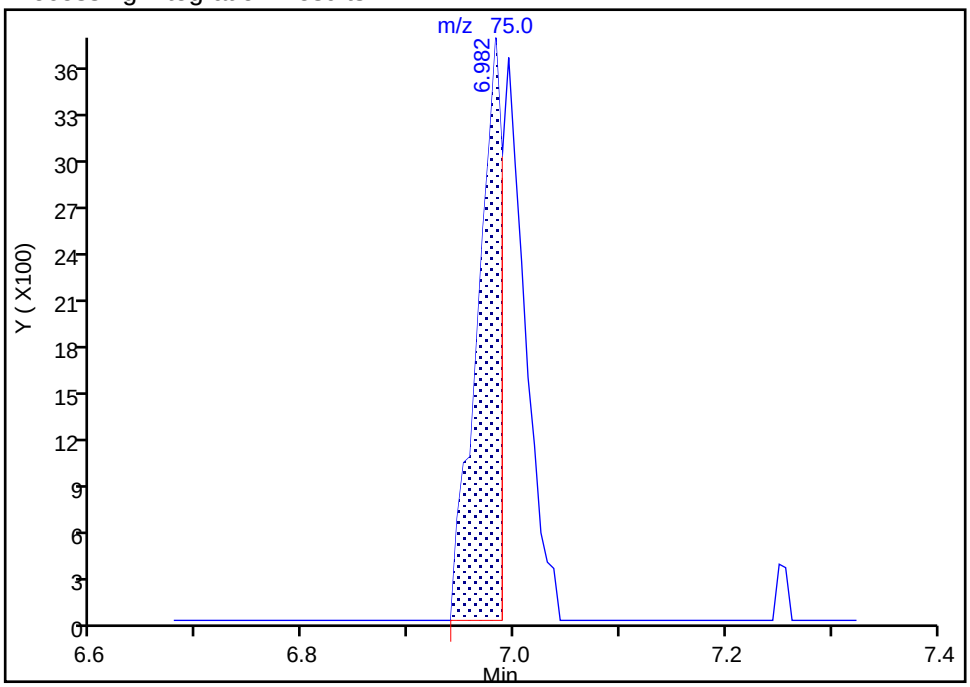
Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D
Injection Date: 27-Jul-2021 21:47:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

57 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

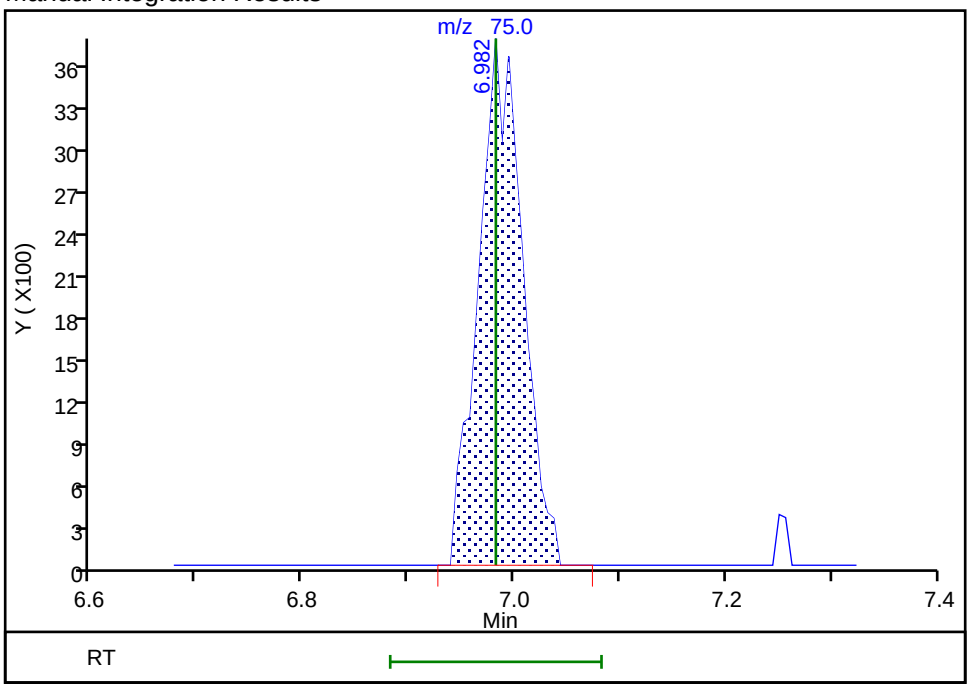
Processing Integration Results

RT: 6.98
Area: 6077
Amount: 0.163303
Amount Units: ug/l



Manual Integration Results

RT: 6.98
Area: 10716
Amount: 0.178465
Amount Units: ug/l



Reviewer: spositok, 28-Jul-2021 12:04:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

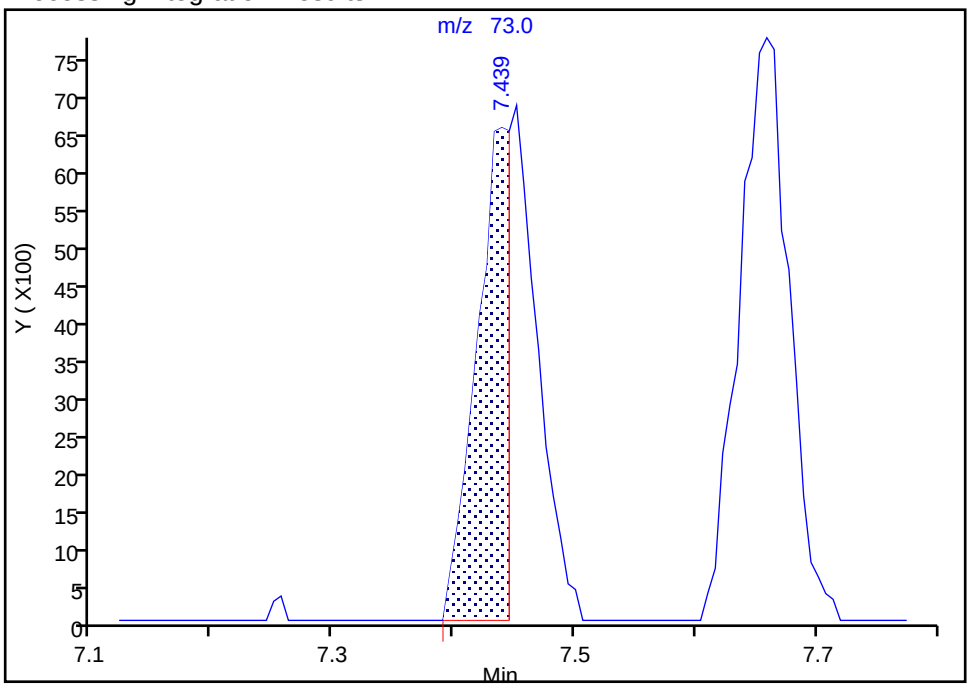
Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D
Injection Date: 27-Jul-2021 21:47:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: kas02648 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

63 Tert-amyl methyl ether, CAS: 994-05-8

Signal: 1

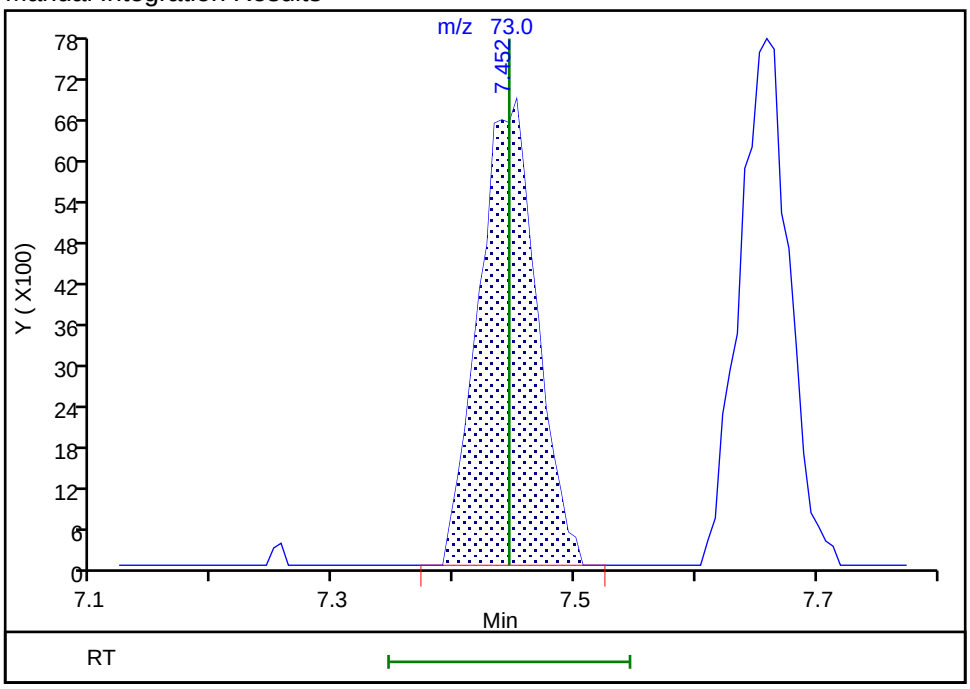
Processing Integration Results

RT: 7.44
Area: 12864
Amount: 0.108988
Amount Units: ug/l



Manual Integration Results

RT: 7.45
Area: 22599
Amount: 0.185219
Amount Units: ug/l



Reviewer: spositok, 28-Jul-2021 12:04:57
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

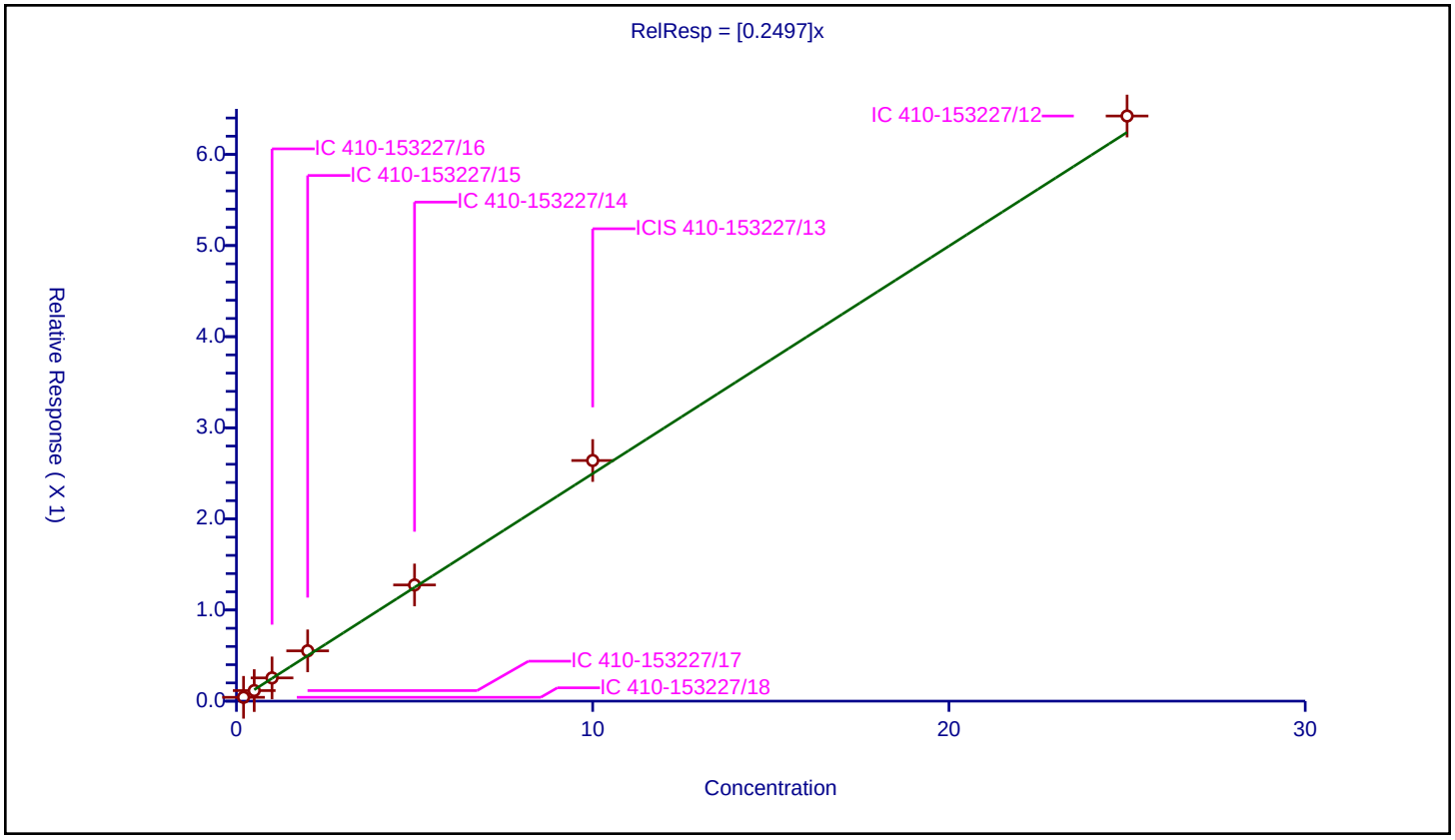
Curve Coefficients

Intercept:	0
Slope:	0.2497

Error Coefficients

Standard Error:	565000
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 410-153227/18	0.2	0.041857	10.0	1878059.0	0.209285	Y
2	IC 410-153227/17	0.5	0.115826	10.0	1875578.0	0.231651	Y
3	IC 410-153227/16	1.0	0.255065	10.0	1893045.0	0.255065	Y
4	IC 410-153227/15	2.0	0.552056	10.0	1914569.0	0.276028	Y
5	IC 410-153227/14	5.0	1.275269	10.0	1958598.0	0.255054	Y
6	ICIS 410-153227/13	10.0	2.640799	10.0	1956692.0	0.26408	Y
7	IC 410-153227/12	25.0	6.422085	10.0	1951930.0	0.256883	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

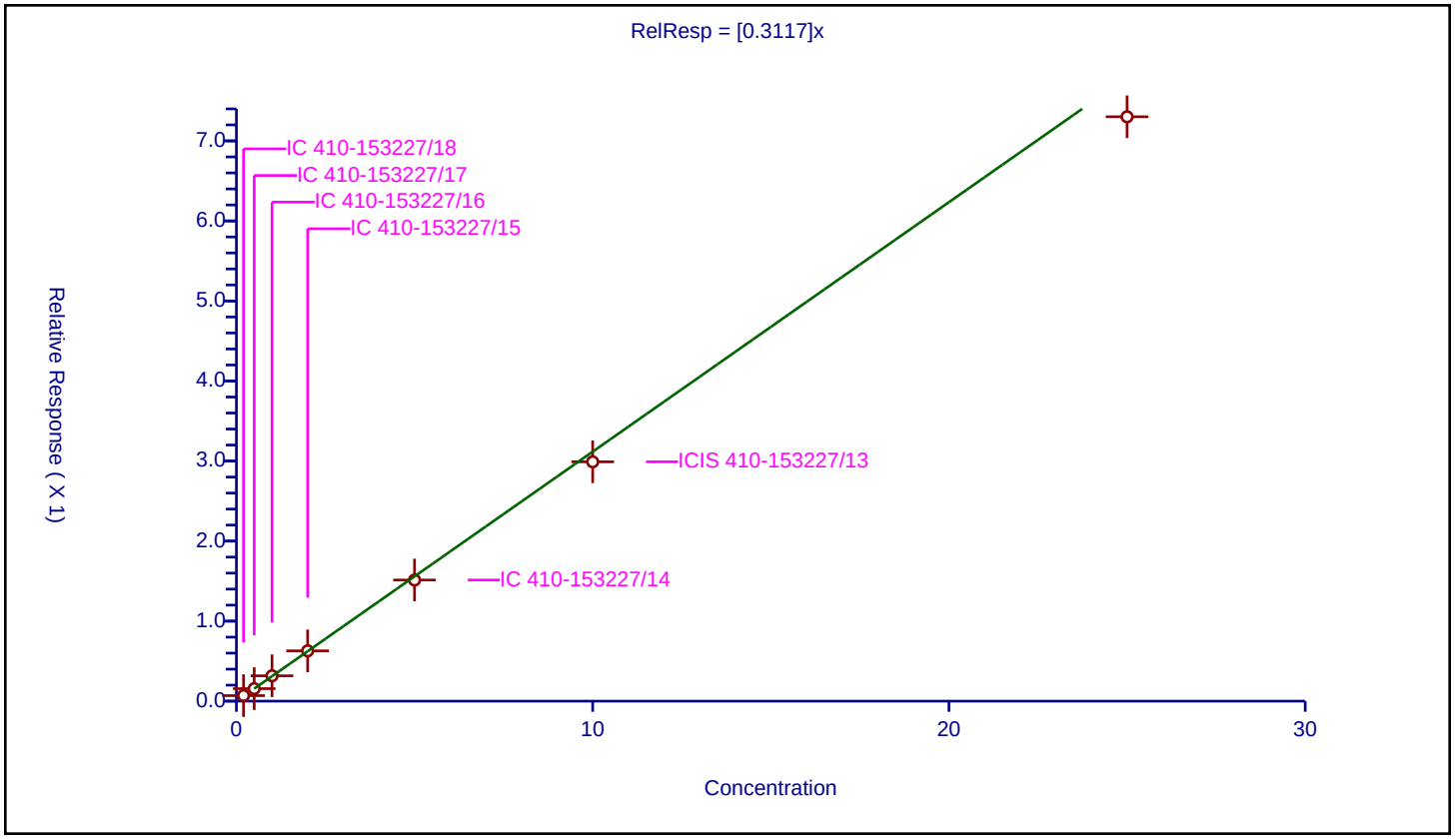
Curve Coefficients

Intercept:	0
Slope:	0.3117

Error Coefficients

Standard Error:	643000
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 410-153227/18	0.2	0.06905	10.0	1878059.0	0.34525	Y
2	IC 410-153227/17	0.5	0.156128	10.0	1875578.0	0.312256	Y
3	IC 410-153227/16	1.0	0.316712	10.0	1893045.0	0.316712	Y
4	IC 410-153227/15	2.0	0.628016	10.0	1914569.0	0.314008	Y
5	IC 410-153227/14	5.0	1.51321	10.0	1958598.0	0.302642	Y
6	ICIS 410-153227/13	10.0	2.990138	10.0	1956692.0	0.299014	Y
7	IC 410-153227/12	25.0	7.30145	10.0	1951930.0	0.292058	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

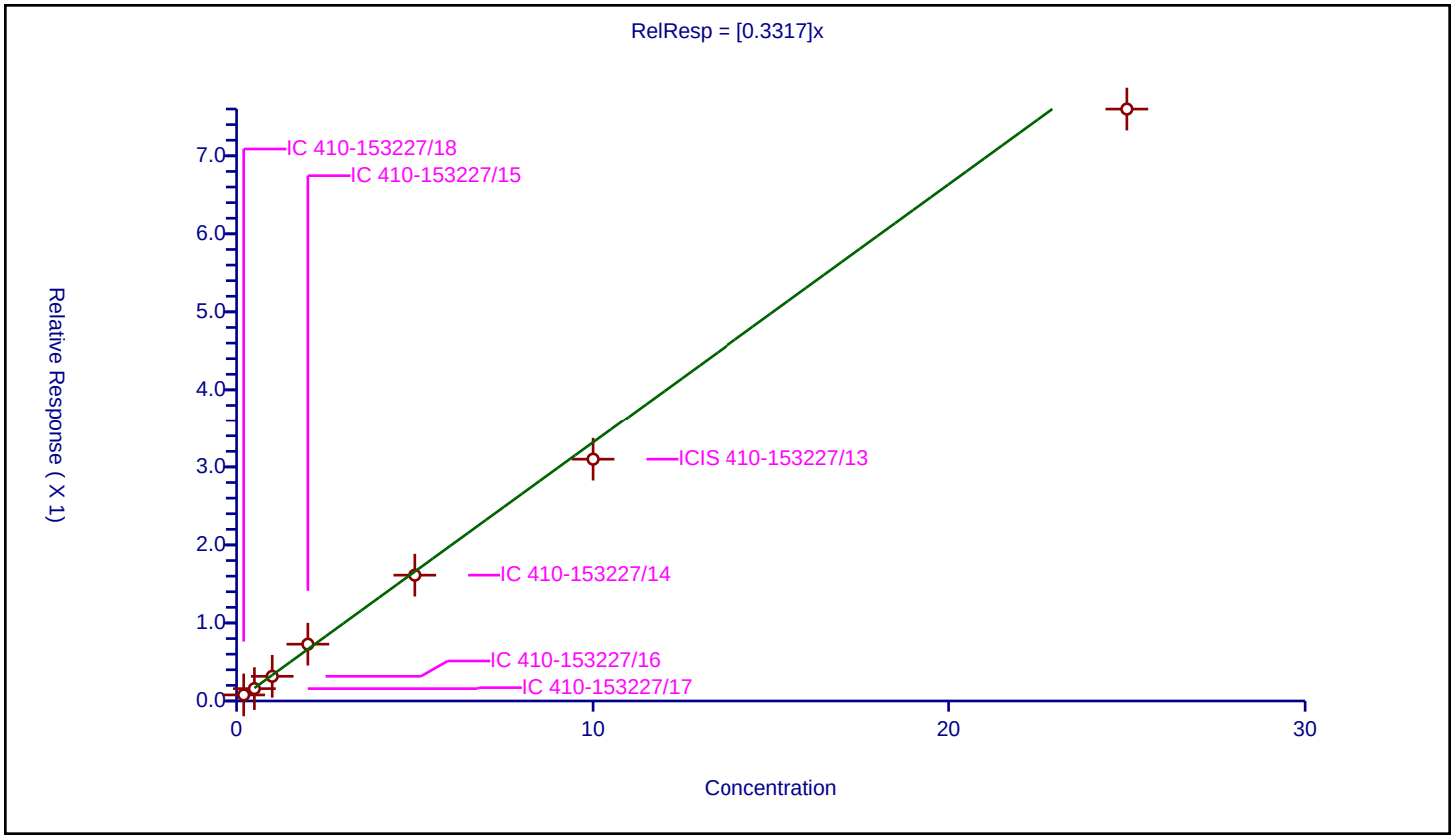
Curve Coefficients

Intercept:	0
Slope:	0.3317

Error Coefficients

Standard Error:	670000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.077756	10.0	1878059.0	0.388779	Y
2	IC 410-153227/17	0.5	0.158309	10.0	1875578.0	0.316617	Y
3	IC 410-153227/16	1.0	0.316205	10.0	1893045.0	0.316205	Y
4	IC 410-153227/15	2.0	0.728049	10.0	1914569.0	0.364024	Y
5	IC 410-153227/14	5.0	1.612679	10.0	1958598.0	0.322536	Y
6	ICIS 410-153227/13	10.0	3.099476	10.0	1956692.0	0.309948	Y
7	IC 410-153227/12	25.0	7.599294	10.0	1951930.0	0.303972	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

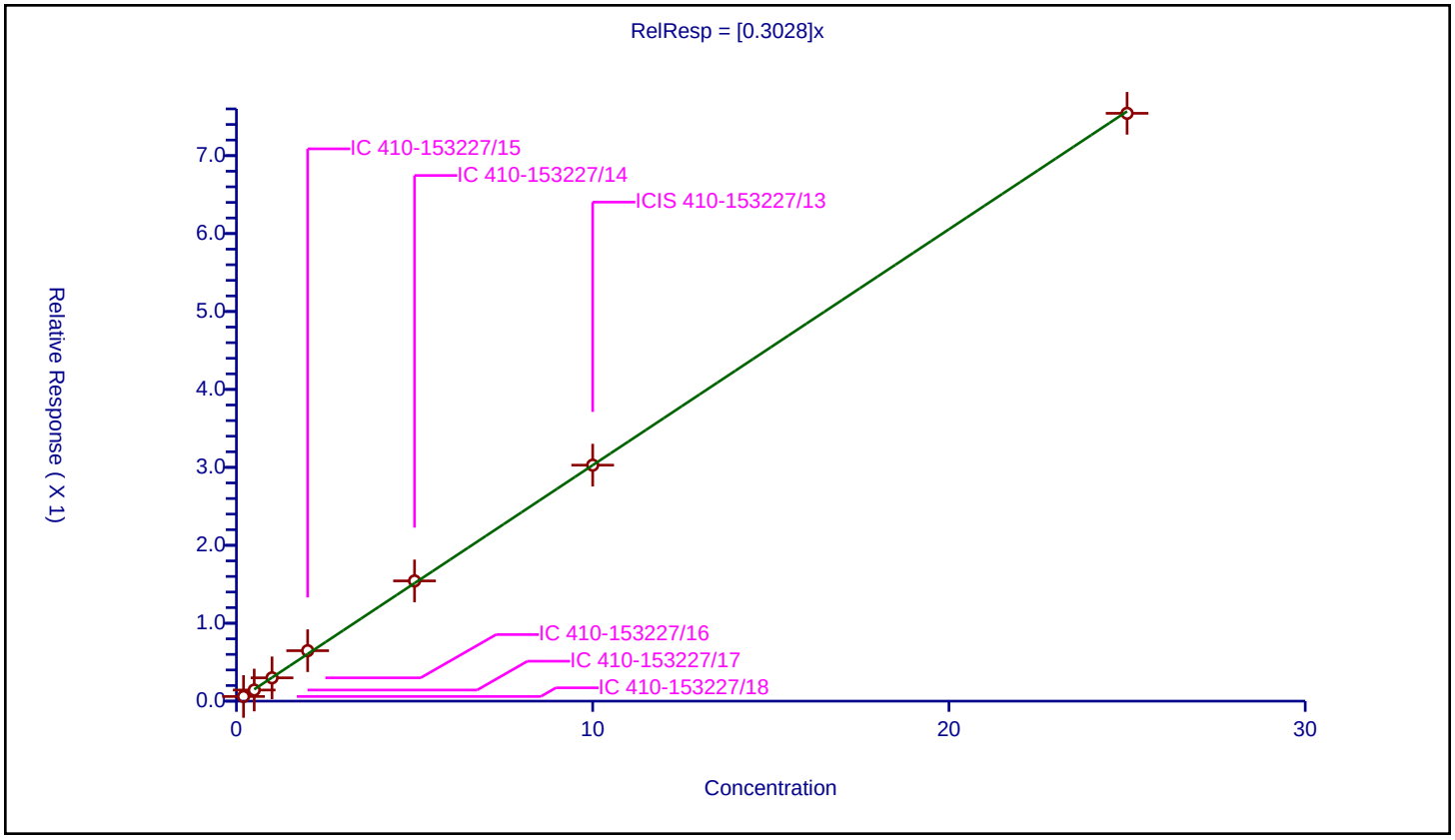
Curve Coefficients

Intercept:	0
Slope:	0.3028

Error Coefficients

Standard Error:	662000
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 410-153227/18	0.2	0.059625	10.0	1878059.0	0.298127	Y
2	IC 410-153227/17	0.5	0.142596	10.0	1875578.0	0.285192	Y
3	IC 410-153227/16	1.0	0.299132	10.0	1893045.0	0.299132	Y
4	IC 410-153227/15	2.0	0.647409	10.0	1914569.0	0.323705	Y
5	IC 410-153227/14	5.0	1.542905	10.0	1958598.0	0.308581	Y
6	ICIS 410-153227/13	10.0	3.028223	10.0	1956692.0	0.302822	Y
7	IC 410-153227/12	25.0	7.543119	10.0	1951930.0	0.301725	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

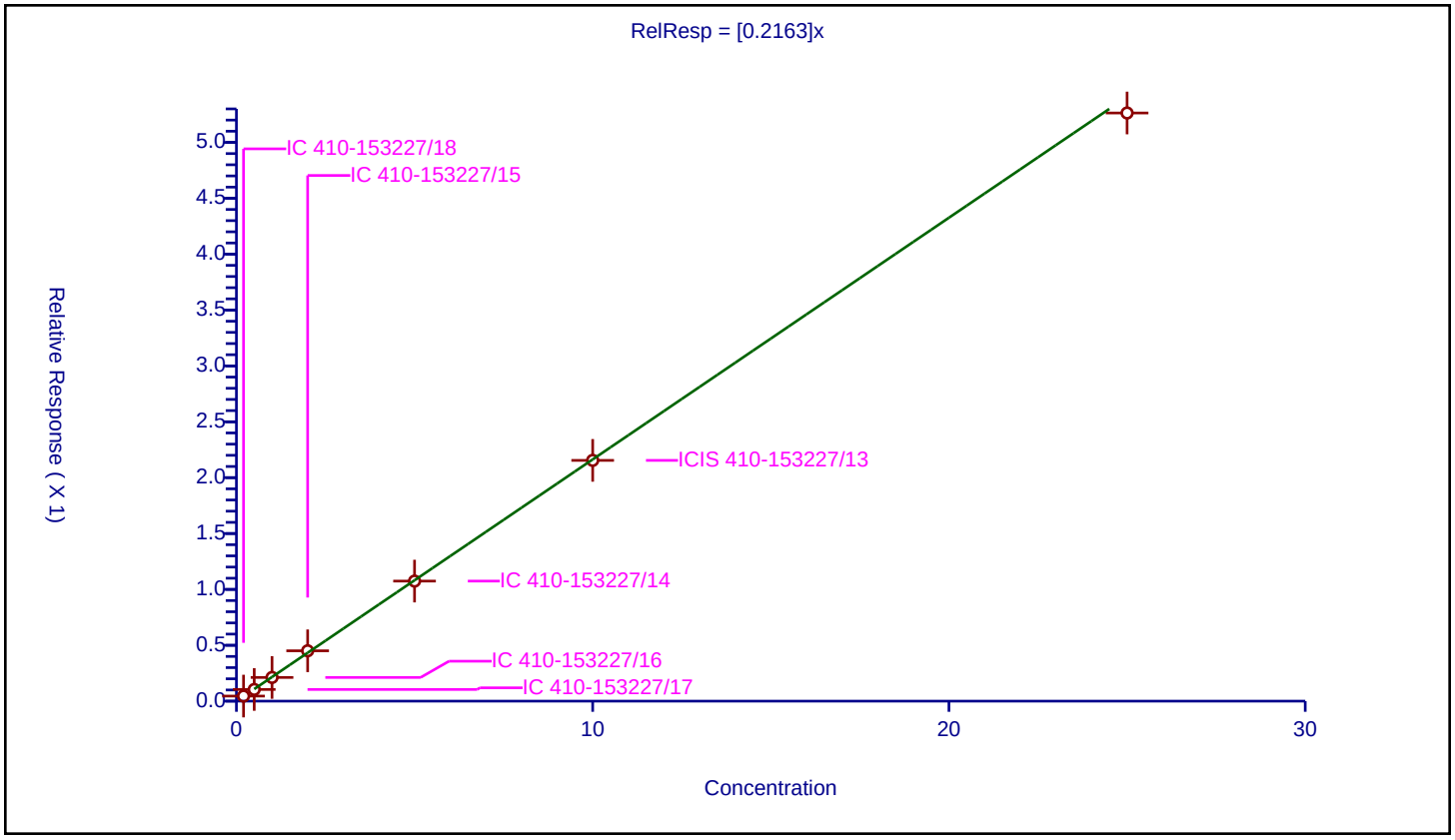
Curve Coefficients

Intercept:	0
Slope:	0.2163

Error Coefficients

Standard Error:	463000
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 410-153227/18	0.2	0.045355	10.0	1878059.0	0.226777	Y
2	IC 410-153227/17	0.5	0.104528	10.0	1875578.0	0.209056	Y
3	IC 410-153227/16	1.0	0.212092	10.0	1893045.0	0.212092	Y
4	IC 410-153227/15	2.0	0.450676	10.0	1914569.0	0.225338	Y
5	IC 410-153227/14	5.0	1.074432	10.0	1958598.0	0.214886	Y
6	ICIS 410-153227/13	10.0	2.154616	10.0	1956692.0	0.215462	Y
7	IC 410-153227/12	25.0	5.263319	10.0	1951930.0	0.210533	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

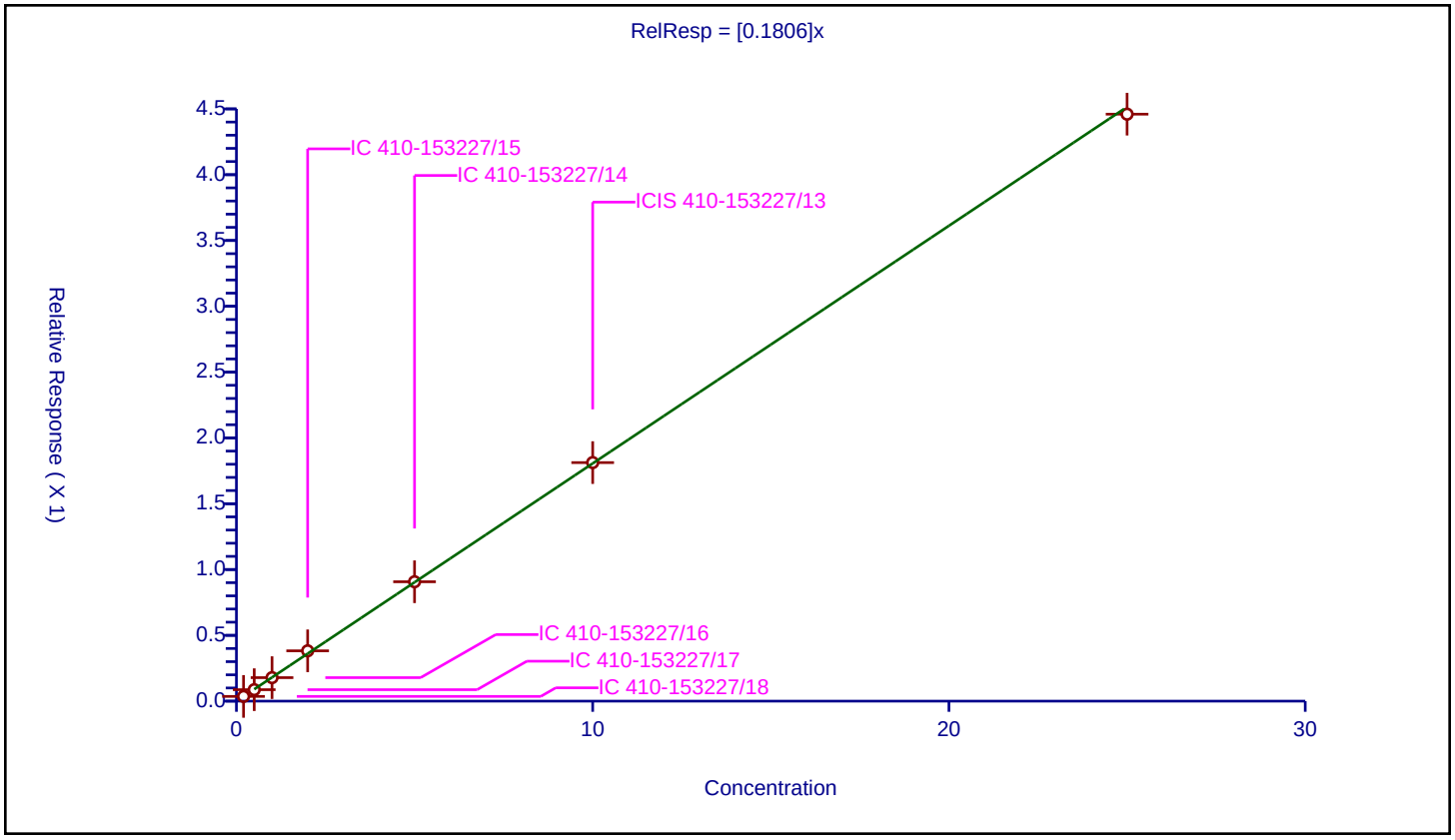
Curve Coefficients

Intercept:	0
Slope:	0.1806

Error Coefficients

Standard Error:	392000
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 410-153227/18	0.2	0.03583	10.0	1878059.0	0.179148	Y
2	IC 410-153227/17	0.5	0.087082	10.0	1875578.0	0.174165	Y
3	IC 410-153227/16	1.0	0.178649	10.0	1893045.0	0.178649	Y
4	IC 410-153227/15	2.0	0.382311	10.0	1914569.0	0.191155	Y
5	IC 410-153227/14	5.0	0.907164	10.0	1958598.0	0.181433	Y
6	ICIS 410-153227/13	10.0	1.812493	10.0	1956692.0	0.181249	Y
7	IC 410-153227/12	25.0	4.459878	10.0	1951930.0	0.178395	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

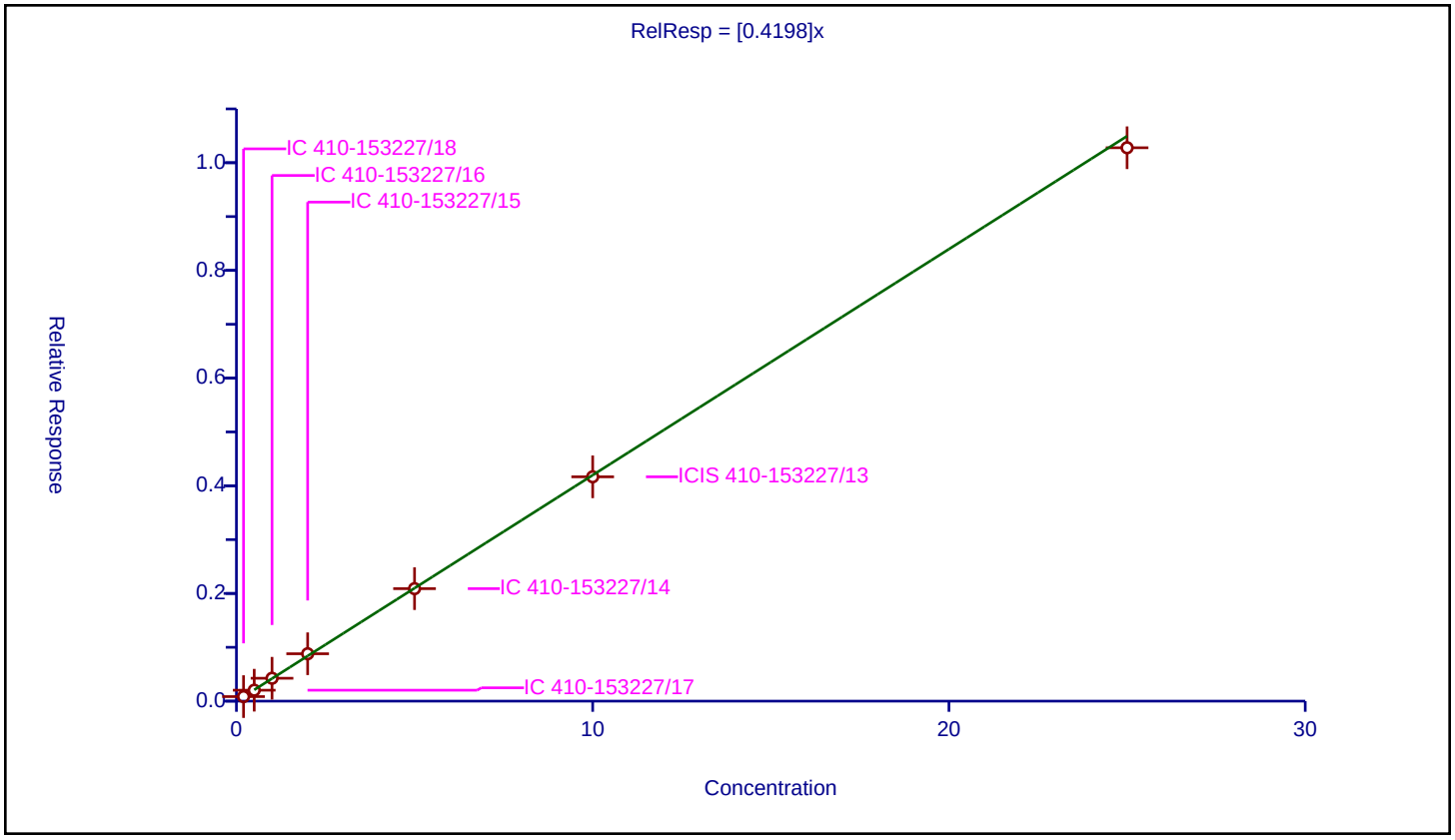
Curve Coefficients

Intercept:	0
Slope:	0.4198

Error Coefficients

Standard Error:	903000
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 410-153227/18	0.2	0.084273	10.0	1878059.0	0.421366	Y
2	IC 410-153227/17	0.5	0.203159	10.0	1875578.0	0.406317	Y
3	IC 410-153227/16	1.0	0.425003	10.0	1893045.0	0.425003	Y
4	IC 410-153227/15	2.0	0.880266	10.0	1914569.0	0.440133	Y
5	IC 410-153227/14	5.0	2.089224	10.0	1958598.0	0.417845	Y
6	ICIS 410-153227/13	10.0	4.166604	10.0	1956692.0	0.41666	Y
7	IC 410-153227/12	25.0	10.278299	10.0	1951930.0	0.411132	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

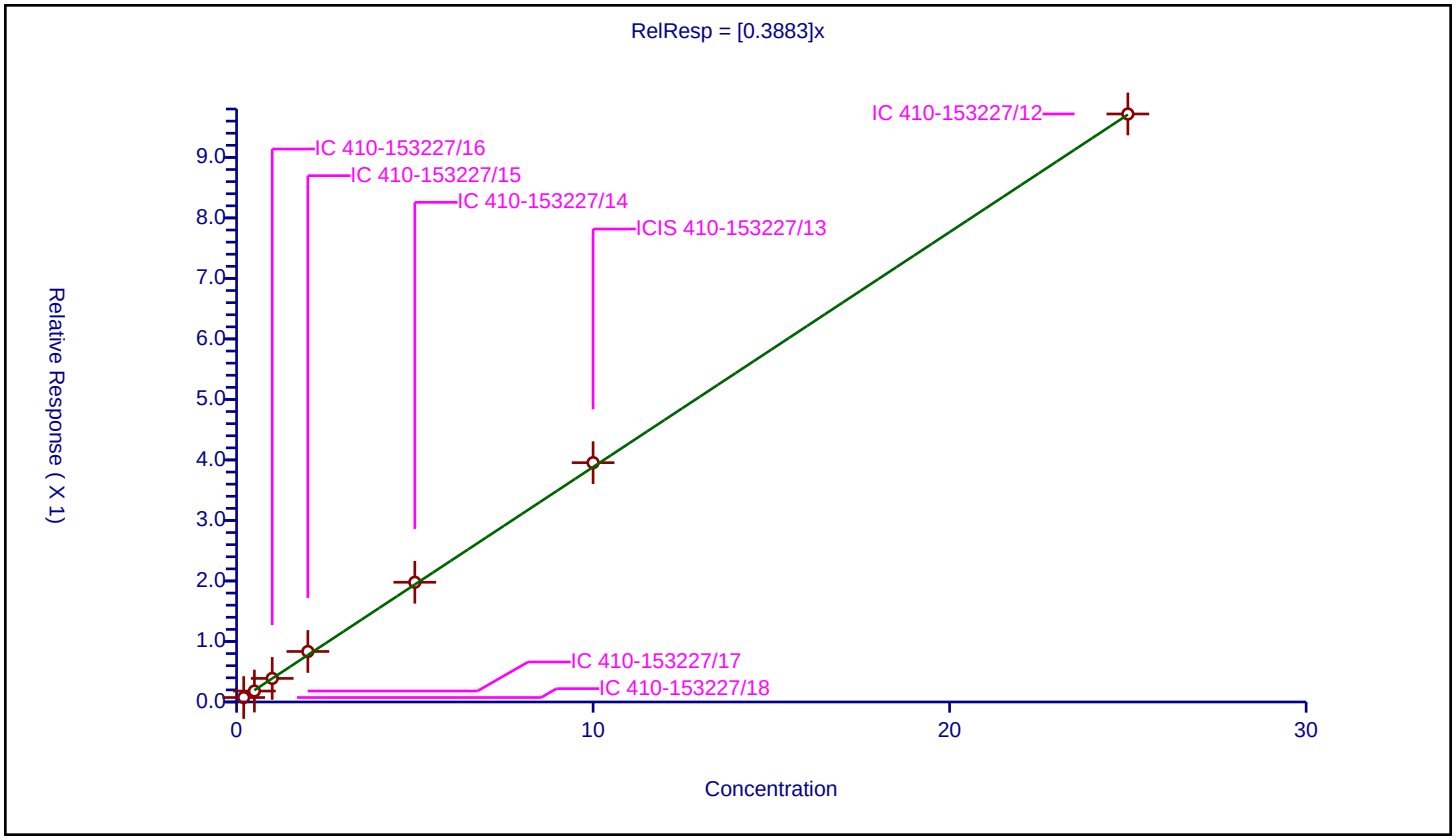
Curve Coefficients

Intercept:	0
Slope:	0.3883

Error Coefficients

Standard Error:	854000
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 410-153227/18	0.2	0.073757	10.0	1878059.0	0.368785	Y
2	IC 410-153227/17	0.5	0.181112	10.0	1875578.0	0.362224	Y
3	IC 410-153227/16	1.0	0.389679	10.0	1893045.0	0.389679	Y
4	IC 410-153227/15	2.0	0.834788	10.0	1914569.0	0.417394	Y
5	IC 410-153227/14	5.0	1.978466	10.0	1958598.0	0.395693	Y
6	ICIS 410-153227/13	10.0	3.955405	10.0	1956692.0	0.395541	Y
7	IC 410-153227/12	25.0	9.718064	10.0	1951930.0	0.388723	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

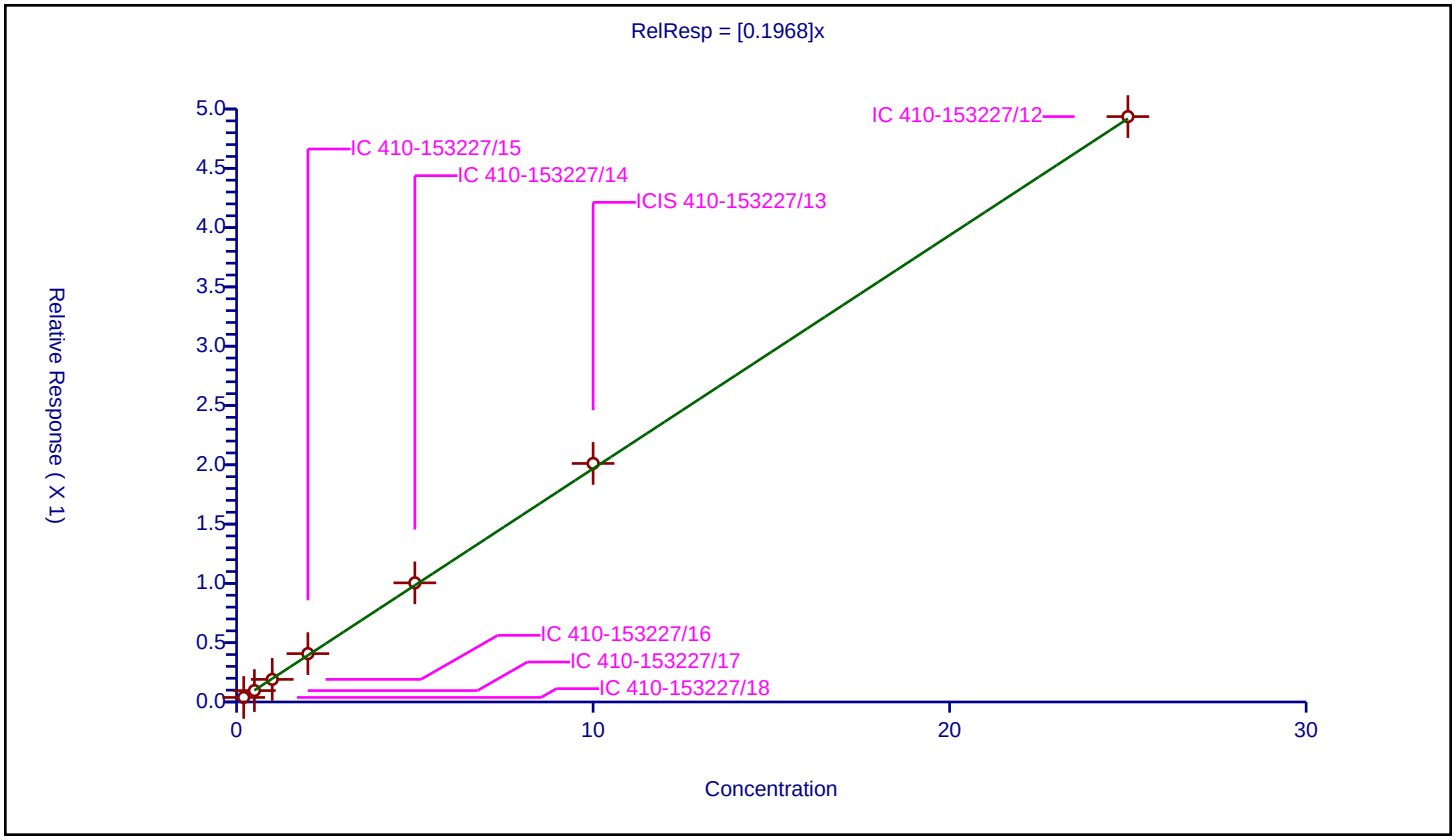
Curve Coefficients

Intercept:	0
Slope:	0.1968

Error Coefficients

Standard Error:	434000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.200014	0.03829	10.0	1878059.0	0.191434	Y
2	IC 410-153227/17	0.500035	0.096024	10.0	1875578.0	0.192034	Y
3	IC 410-153227/16	1.000069	0.190476	10.0	1893045.0	0.190463	Y
4	IC 410-153227/15	2.000138	0.40782	10.0	1914569.0	0.203896	Y
5	IC 410-153227/14	5.000346	1.004469	10.0	1958598.0	0.20088	Y
6	ICIS 410-153227/13	10.000692	2.011507	10.0	1956692.0	0.201137	Y
7	IC 410-153227/12	25.00173	4.936058	10.0	1951930.0	0.197429	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

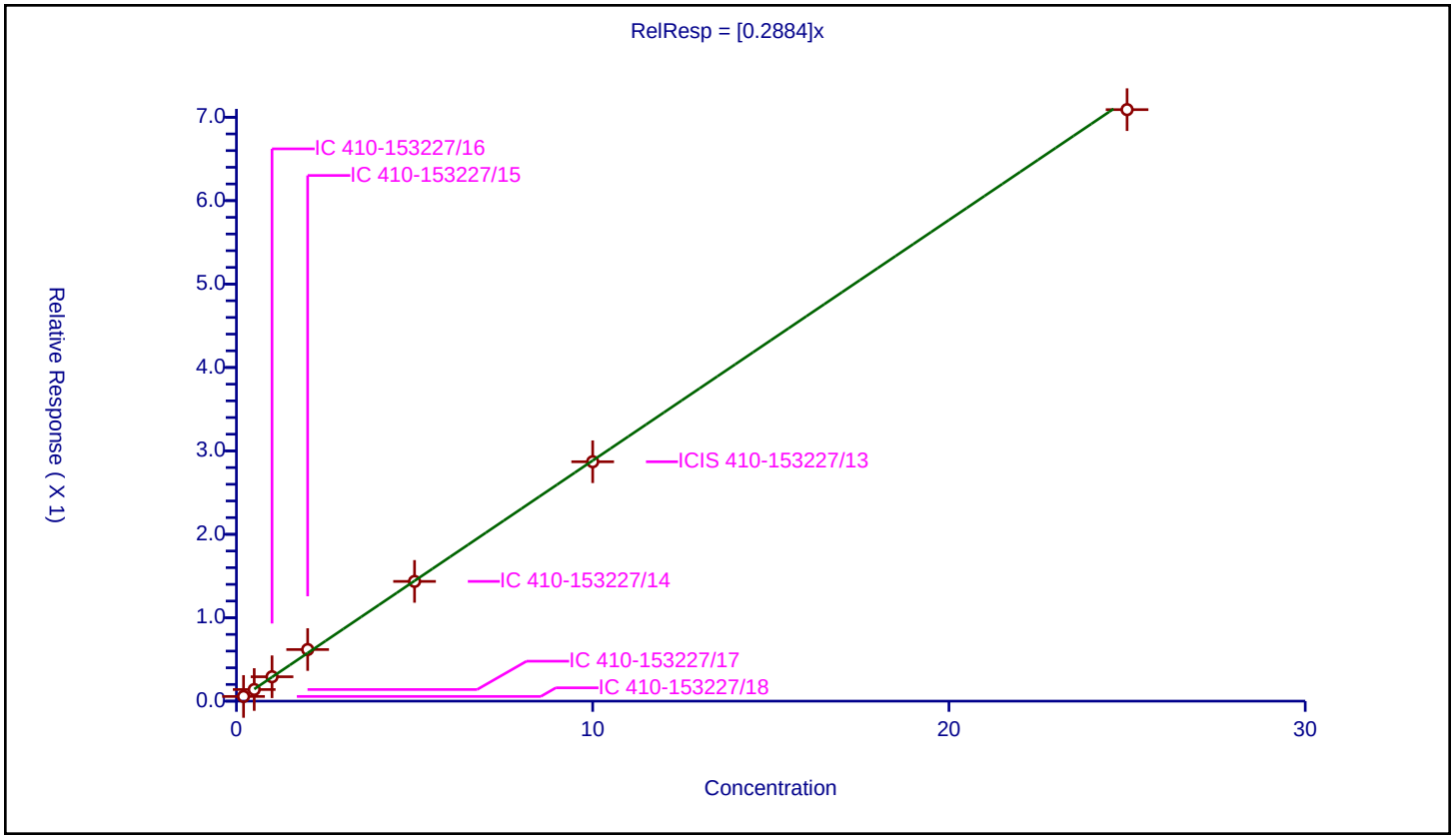
Curve Coefficients

Intercept:	0
Slope:	0.2884

Error Coefficients

Standard Error:	623000
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 410-153227/18	0.2	0.0561	10.0	1878059.0	0.280502	Y
2	IC 410-153227/17	0.5	0.139514	10.0	1875578.0	0.279029	Y
3	IC 410-153227/16	1.0	0.29218	10.0	1893045.0	0.29218	Y
4	IC 410-153227/15	2.0	0.618573	10.0	1914569.0	0.309286	Y
5	IC 410-153227/14	5.0	1.435379	10.0	1958598.0	0.287076	Y
6	ICIS 410-153227/13	10.0	2.870099	10.0	1956692.0	0.28701	Y
7	IC 410-153227/12	25.0	7.091105	10.0	1951930.0	0.283644	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

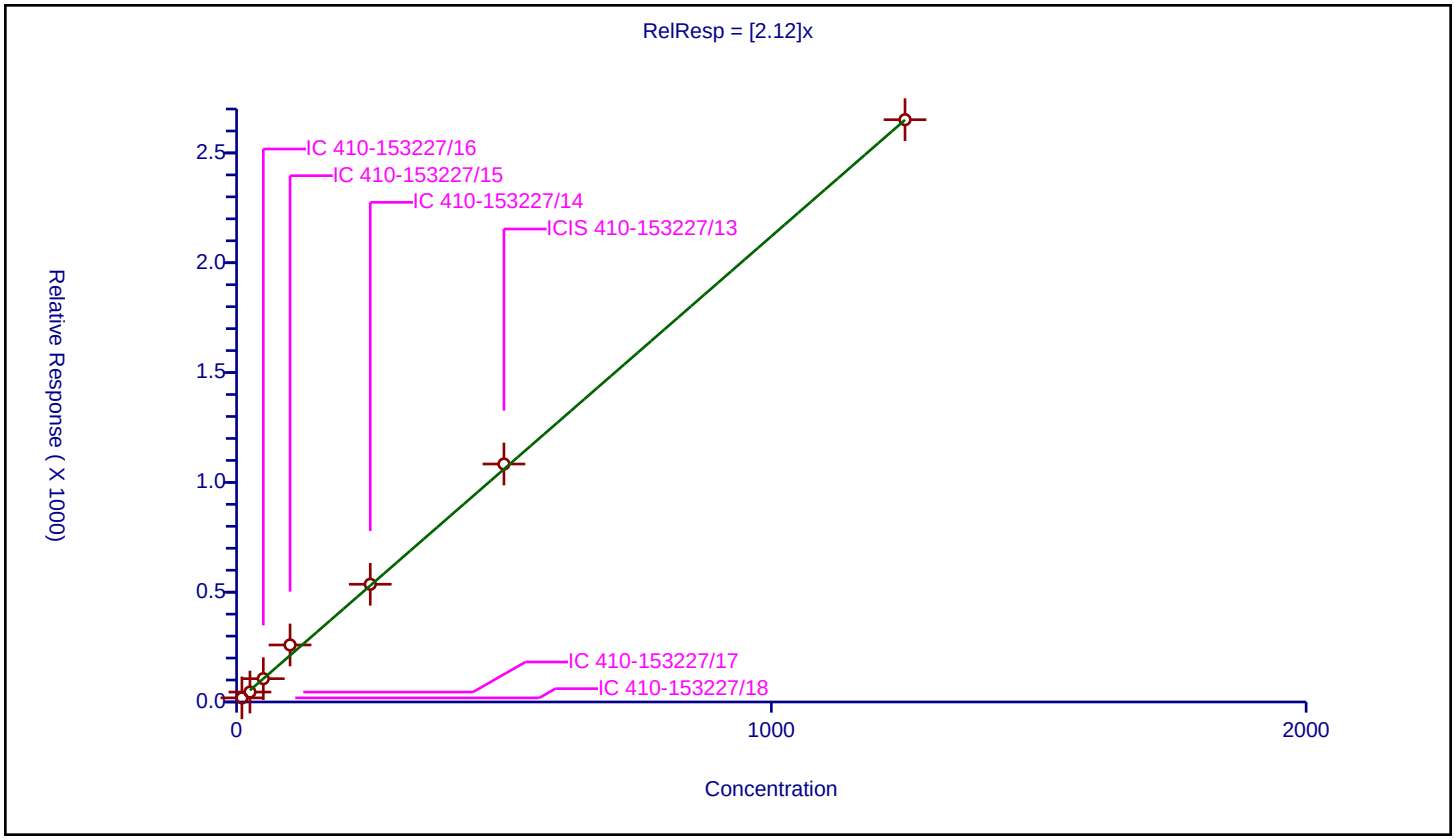
Curve Coefficients

Intercept:	0
Slope:	2.12

Error Coefficients

Standard Error:	3310000
Relative Standard Error:	11.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	9.999702	18.817401	50.0	158566.0	1.881796	Y
2	IC 410-153227/17	24.999254	45.223736	50.0	146579.0	1.809003	Y
3	IC 410-153227/16	49.998508	106.135366	50.0	143773.0	2.122771	Y
4	IC 410-153227/15	99.997016	259.697479	50.0	119562.0	2.597052	Y
5	IC 410-153227/14	249.992539	535.999658	50.0	140518.0	2.144063	Y
6	ICIS 410-153227/13	499.985078	1083.59325	50.0	143636.0	2.167251	Y
7	IC 410-153227/12	1249.962694	2651.400405	50.0	137853.0	2.121184	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

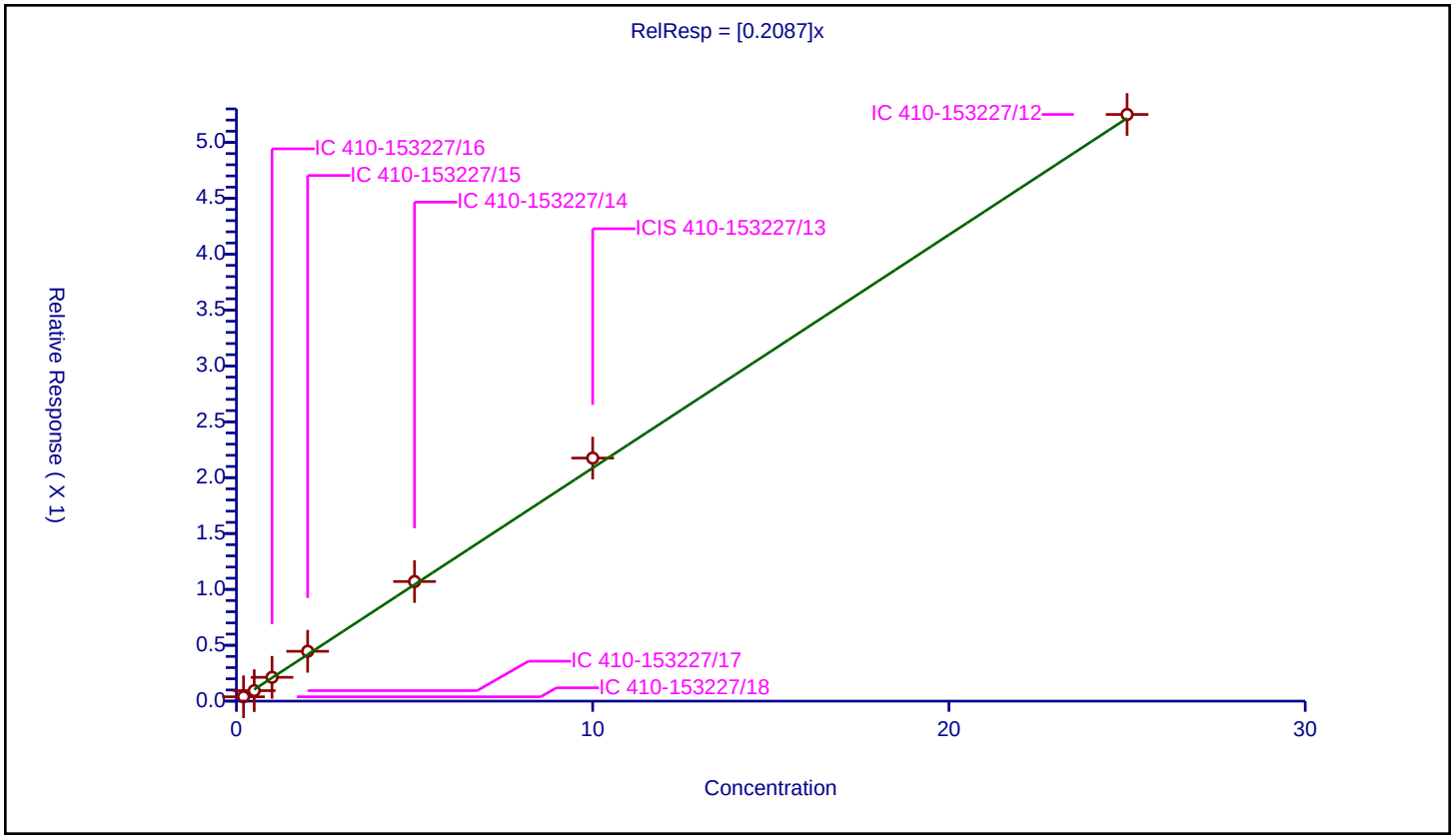
Curve Coefficients

Intercept:	0
Slope:	0.2087

Error Coefficients

Standard Error:	463000
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 410-153227/18	0.2	0.038918	10.0	1878059.0	0.194589	Y
2	IC 410-153227/17	0.5	0.094115	10.0	1875578.0	0.18823	Y
3	IC 410-153227/16	1.0	0.213096	10.0	1893045.0	0.213096	Y
4	IC 410-153227/15	2.0	0.446179	10.0	1914569.0	0.223089	Y
5	IC 410-153227/14	5.0	1.070521	10.0	1958598.0	0.214104	Y
6	ICIS 410-153227/13	10.0	2.175319	10.0	1956692.0	0.217532	Y
7	IC 410-153227/12	25.0	5.250147	10.0	1951930.0	0.210006	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

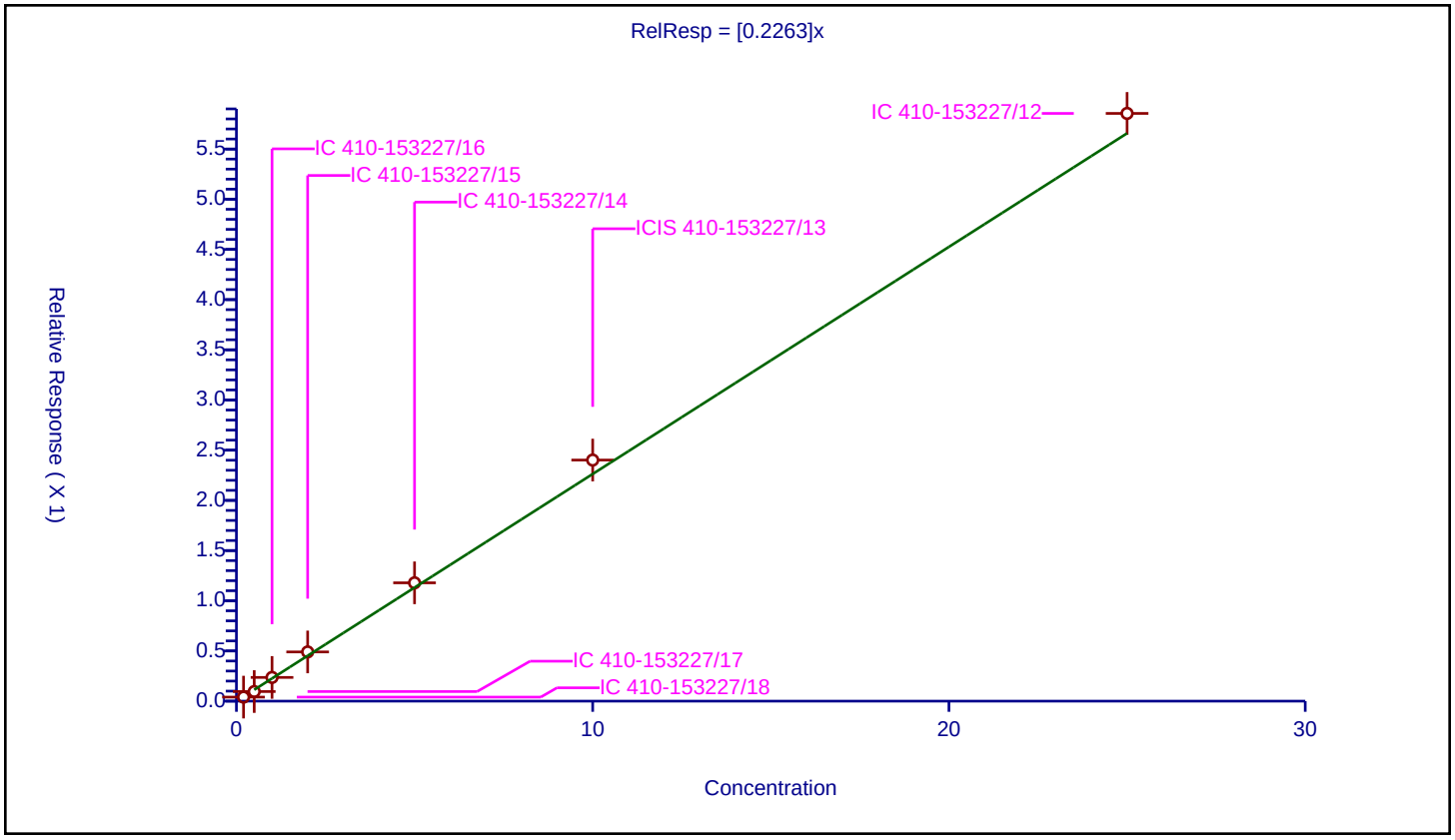
Curve Coefficients

Intercept:	0
Slope:	0.2263

Error Coefficients

Standard Error:	515000
Relative Standard Error:	9.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.040222	10.0	1878059.0	0.201112	Y
2	IC 410-153227/17	0.5	0.095603	10.0	1875578.0	0.191205	Y
3	IC 410-153227/16	1.0	0.236397	10.0	1893045.0	0.236397	Y
4	IC 410-153227/15	2.0	0.490251	10.0	1914569.0	0.245126	Y
5	IC 410-153227/14	5.0	1.178603	10.0	1958598.0	0.235721	Y
6	ICIS 410-153227/13	10.0	2.401676	10.0	1956692.0	0.240168	Y
7	IC 410-153227/12	25.0	5.85481	10.0	1951930.0	0.234192	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

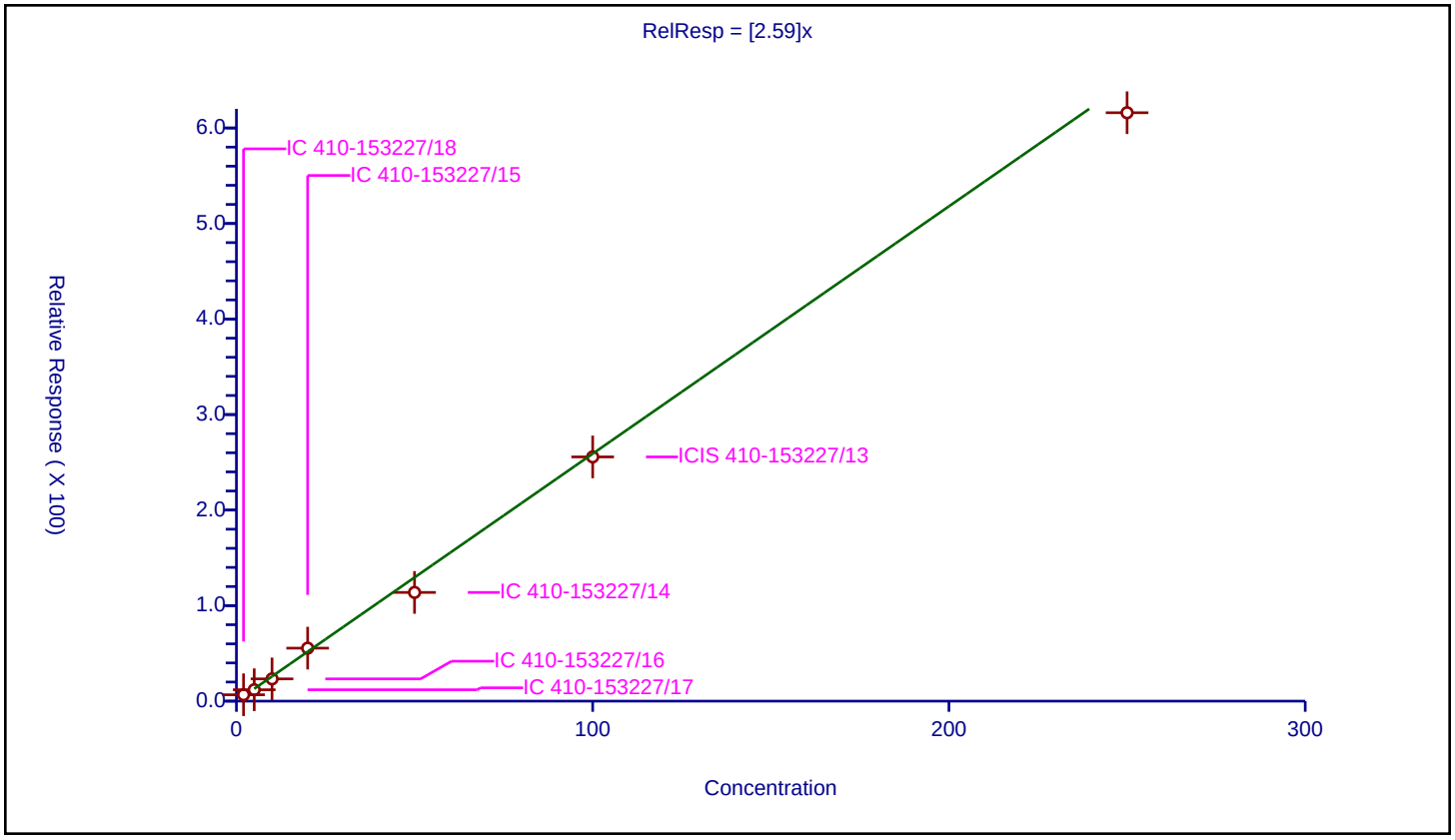
Curve Coefficients

Intercept:	0
Slope:	2.59

Error Coefficients

Standard Error:	769000
Relative Standard Error:	14.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.967

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	2.0	6.689959	50.0	158566.0	3.344979	Y
2	IC 410-153227/17	5.0	11.918147	50.0	146579.0	2.383629	Y
3	IC 410-153227/16	10.0	23.307575	50.0	143773.0	2.330758	Y
4	IC 410-153227/15	20.0	55.475402	50.0	119562.0	2.77377	Y
5	IC 410-153227/14	50.0	113.807484	50.0	140518.0	2.27615	Y
6	ICIS 410-153227/13	100.0	255.674065	50.0	143636.0	2.556741	Y
7	IC 410-153227/12	250.0	615.994937	50.0	137853.0	2.46398	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

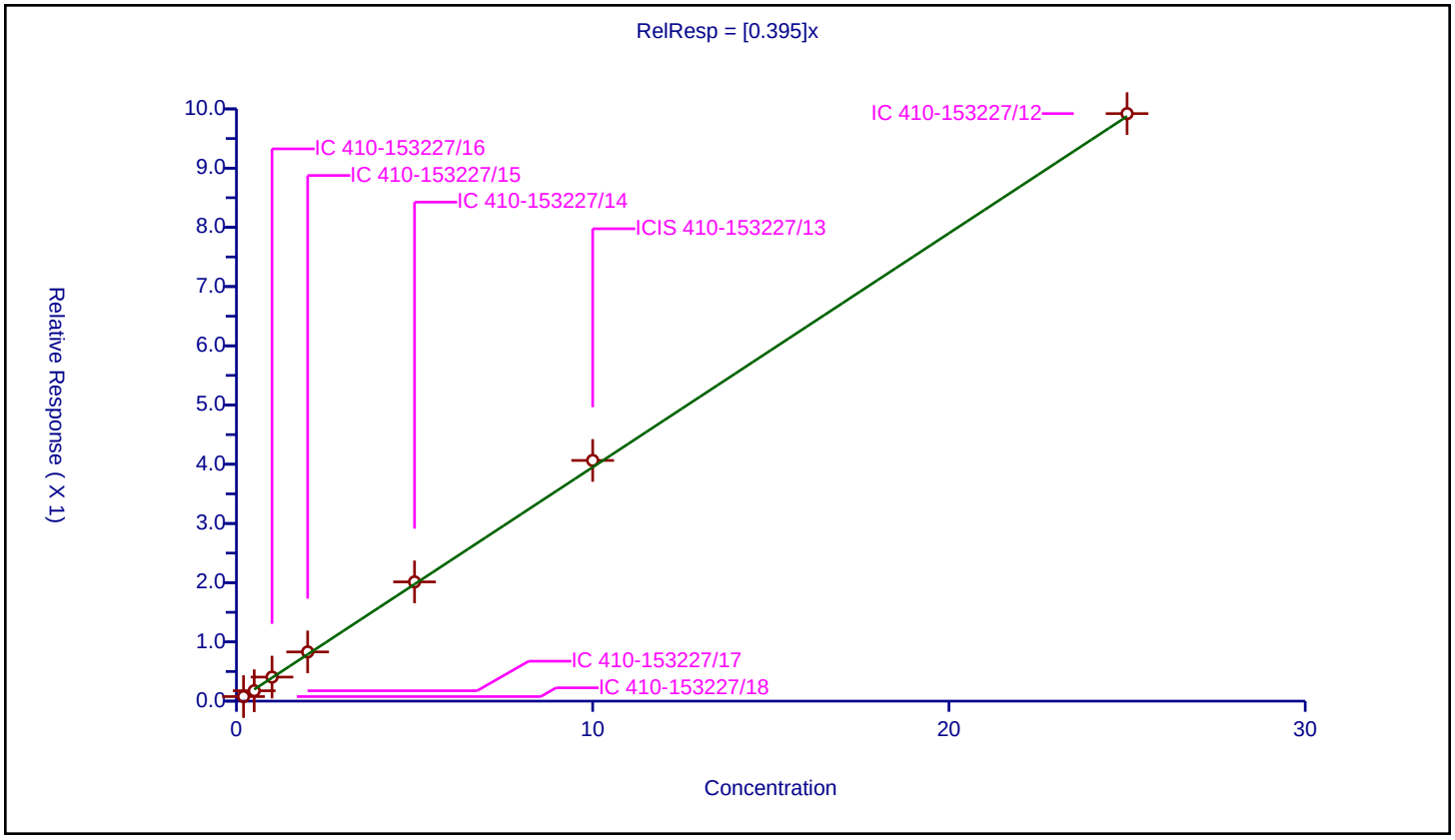
Curve Coefficients

Intercept:	0
Slope:	0.395

Error Coefficients

Standard Error:	873000
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 410-153227/18	0.2	0.077202	10.0	1878059.0	0.38601	Y
2	IC 410-153227/17	0.5	0.175642	10.0	1875578.0	0.351284	Y
3	IC 410-153227/16	1.0	0.406293	10.0	1893045.0	0.406293	Y
4	IC 410-153227/15	2.0	0.831054	10.0	1914569.0	0.415527	Y
5	IC 410-153227/14	5.0	2.013359	10.0	1958598.0	0.402672	Y
6	ICIS 410-153227/13	10.0	4.064416	10.0	1956692.0	0.406442	Y
7	IC 410-153227/12	25.0	9.920176	10.0	1951930.0	0.396807	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

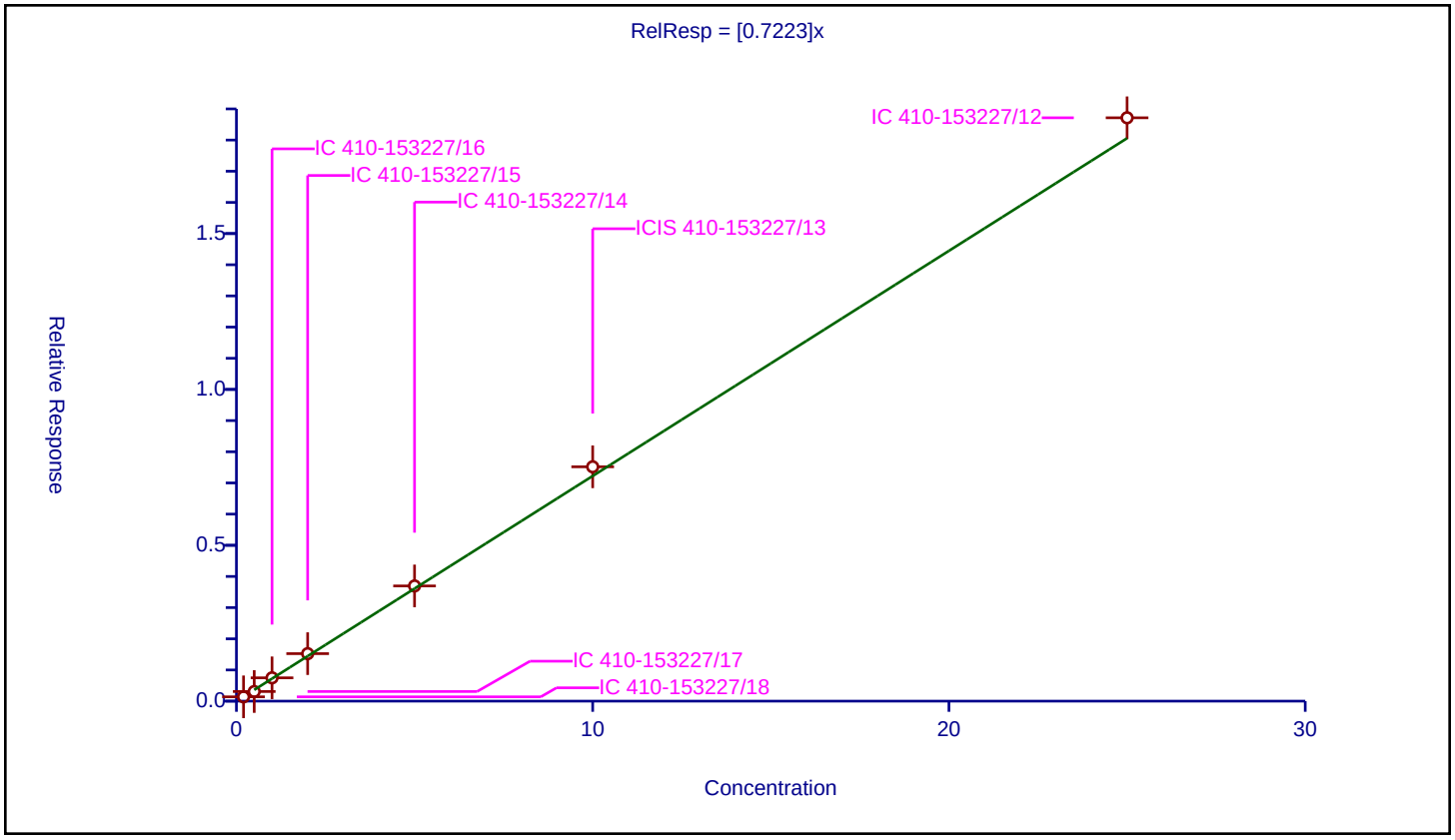
Curve Coefficients

Intercept:	0
Slope:	0.7223

Error Coefficients

Standard Error:	1640000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.13777	10.0	1878059.0	0.688849	Y
2	IC 410-153227/17	0.5	0.308881	10.0	1875578.0	0.617762	Y
3	IC 410-153227/16	1.0	0.748334	10.0	1893045.0	0.748334	Y
4	IC 410-153227/15	2.0	1.523769	10.0	1914569.0	0.761884	Y
5	IC 410-153227/14	5.0	3.695725	10.0	1958598.0	0.739145	Y
6	ICIS 410-153227/13	10.0	7.51754	10.0	1956692.0	0.751754	Y
7	IC 410-153227/12	25.0	18.714365	10.0	1951930.0	0.748575	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

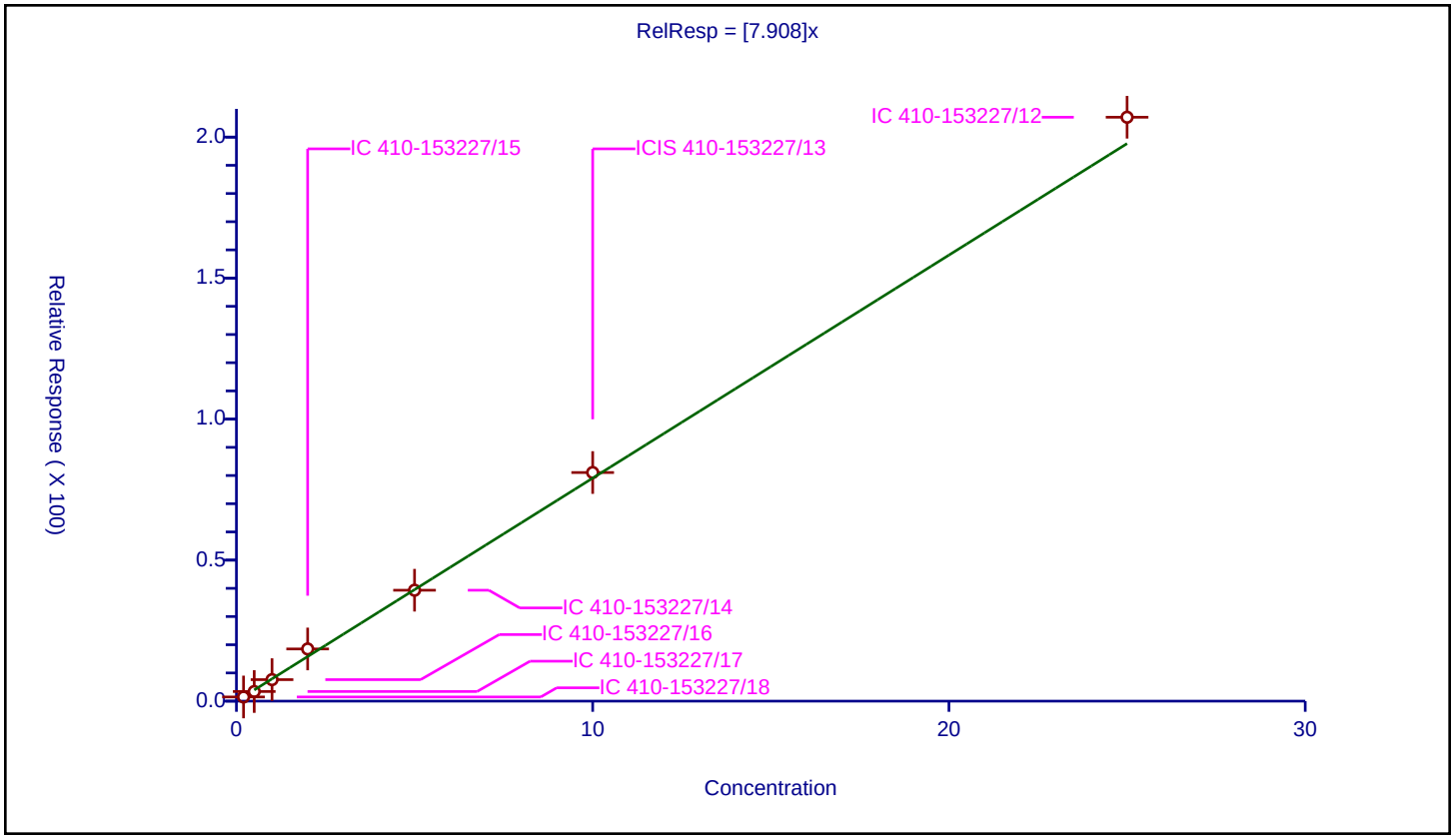
Curve Coefficients

Intercept:	0
Slope:	7.908

Error Coefficients

Standard Error:	256000
Relative Standard Error:	9.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	1.478564	50.0	158566.0	7.392821	Y
2	IC 410-153227/17	0.5	3.412835	50.0	146579.0	6.825671	Y
3	IC 410-153227/16	1.0	7.629736	50.0	143773.0	7.629736	Y
4	IC 410-153227/15	2.0	18.508389	50.0	119562.0	9.254194	Y
5	IC 410-153227/14	5.0	39.328769	50.0	140518.0	7.865754	Y
6	ICIS 410-153227/13	10.0	81.061503	50.0	143636.0	8.10615	Y
7	IC 410-153227/12	25.0	207.041196	50.0	137853.0	8.281648	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

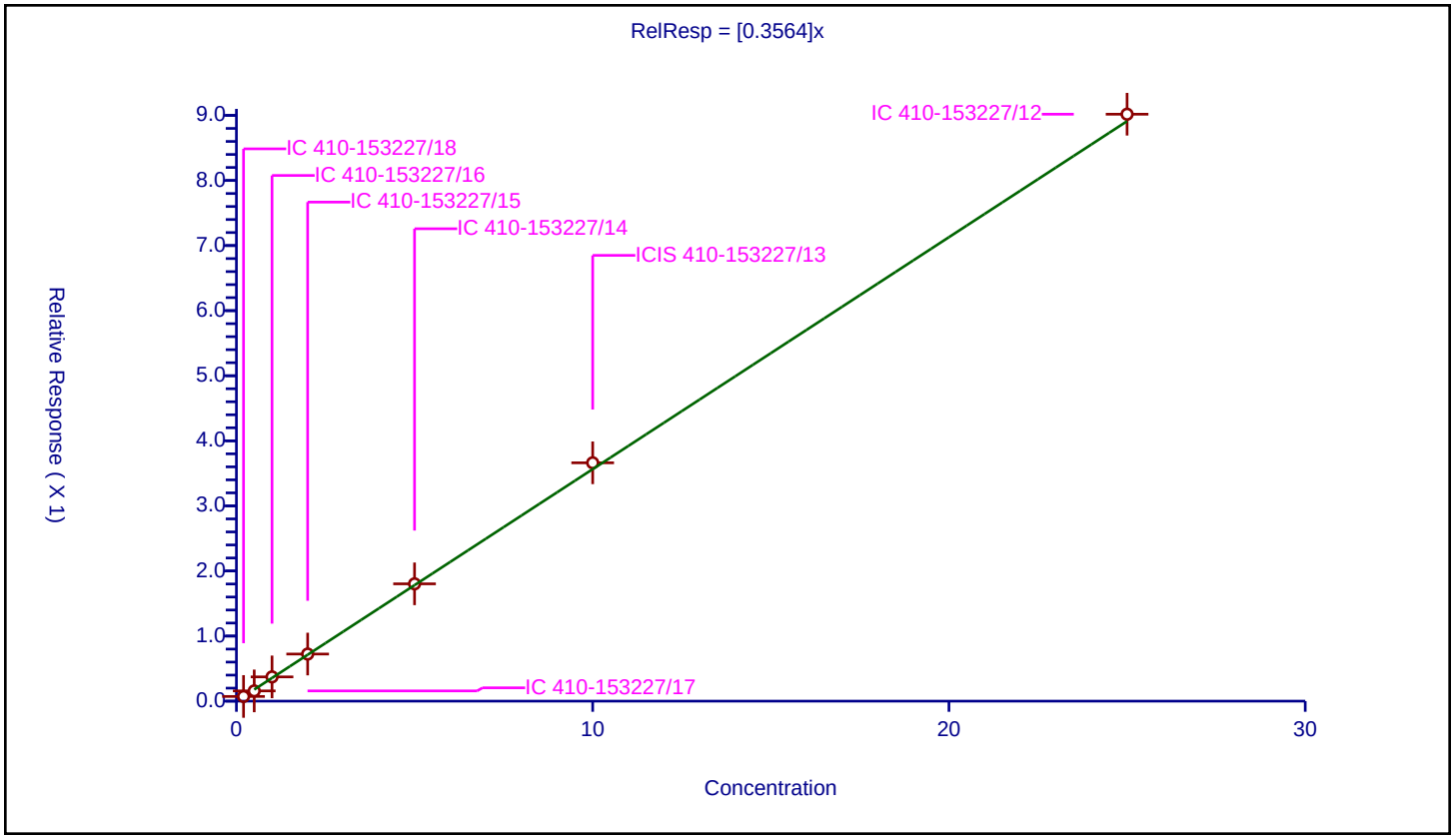
Curve Coefficients

Intercept:	0
Slope:	0.3564

Error Coefficients

Standard Error:	792000
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 410-153227/18	0.2	0.071696	10.0	1878059.0	0.358482	Y
2	IC 410-153227/17	0.5	0.157296	10.0	1875578.0	0.314591	Y
3	IC 410-153227/16	1.0	0.372654	10.0	1893045.0	0.372654	Y
4	IC 410-153227/15	2.0	0.72385	10.0	1914569.0	0.361925	Y
5	IC 410-153227/14	5.0	1.802626	10.0	1958598.0	0.360525	Y
6	ICIS 410-153227/13	10.0	3.661956	10.0	1956692.0	0.366196	Y
7	IC 410-153227/12	25.0	9.018167	10.0	1951930.0	0.360727	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

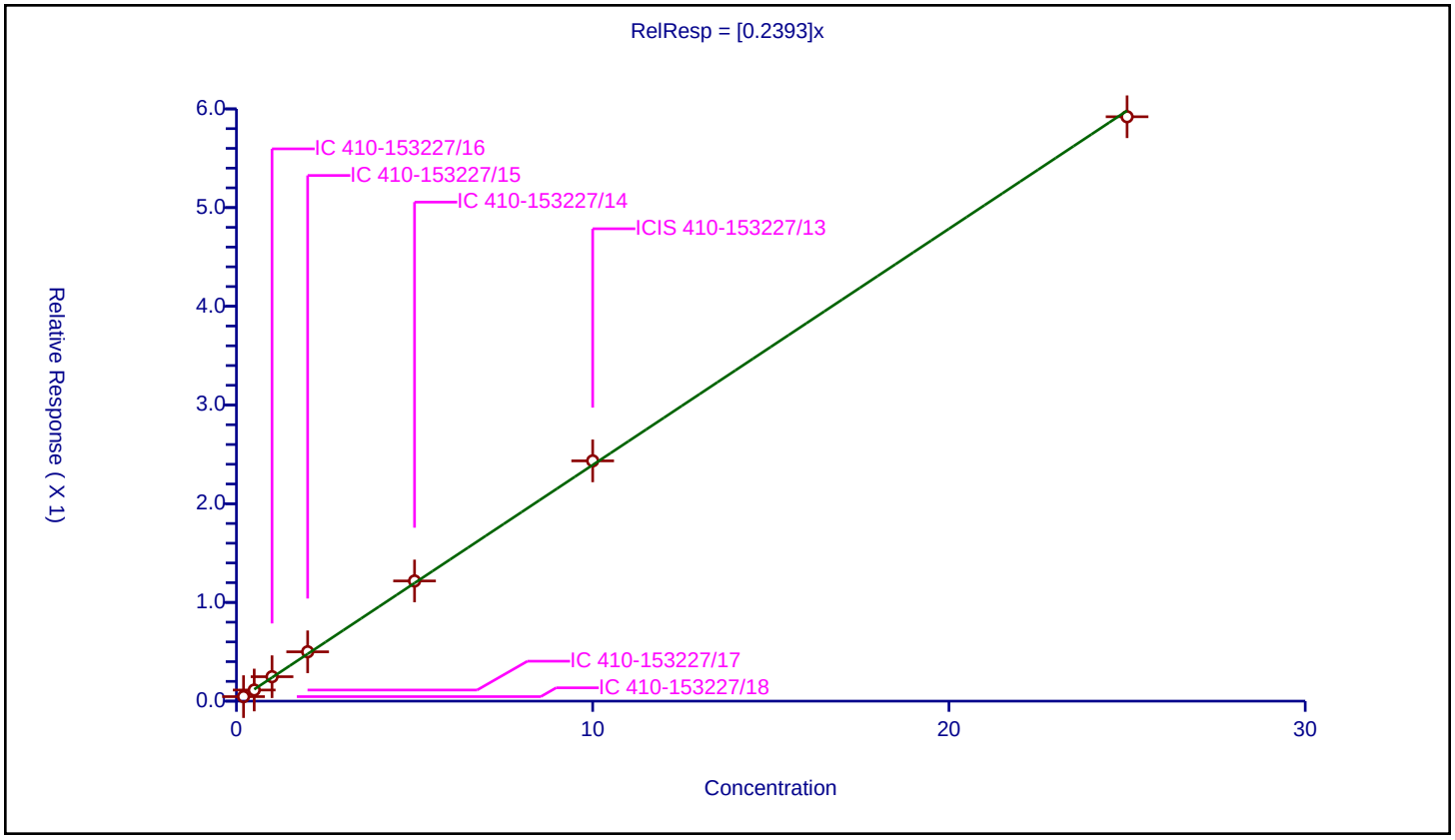
Curve Coefficients

Intercept:	0
Slope:	0.2393

Error Coefficients

Standard Error:	521000
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 410-153227/18	0.2	0.045616	10.0	1878059.0	0.228081	Y
2	IC 410-153227/17	0.5	0.112739	10.0	1875578.0	0.225477	Y
3	IC 410-153227/16	1.0	0.247617	10.0	1893045.0	0.247617	Y
4	IC 410-153227/15	2.0	0.499846	10.0	1914569.0	0.249923	Y
5	IC 410-153227/14	5.0	1.217565	10.0	1958598.0	0.243513	Y
6	ICIS 410-153227/13	10.0	2.434333	10.0	1956692.0	0.243433	Y
7	IC 410-153227/12	25.0	5.920509	10.0	1951930.0	0.23682	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

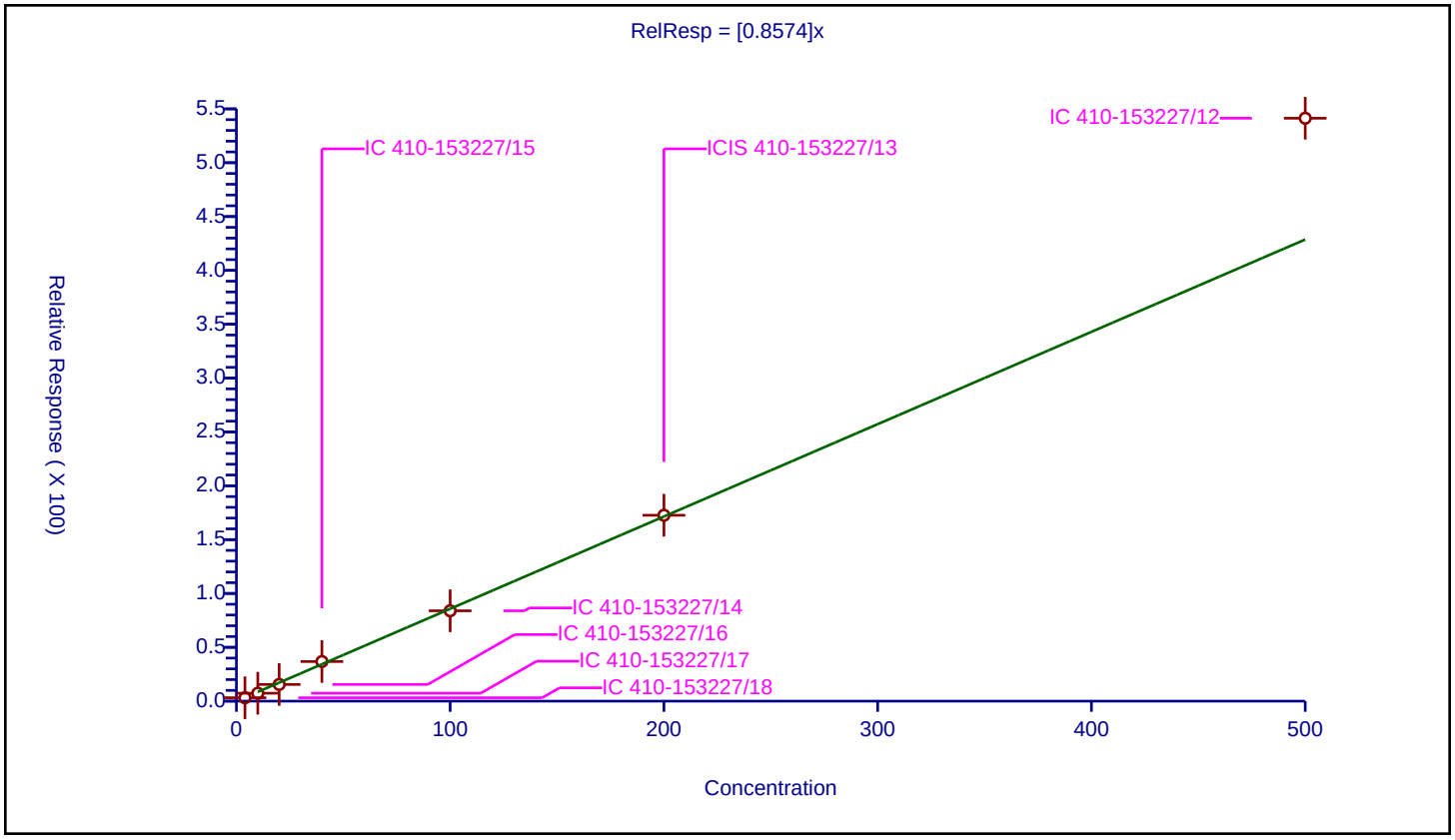
Curve Coefficients

Intercept:	0
Slope:	0.8574

Error Coefficients

Standard Error:	650000
Relative Standard Error:	13.6
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	4.0	3.146324	50.0	158566.0	0.786581	Y
2	IC 410-153227/17	10.0	7.353373	50.0	146579.0	0.735337	Y
3	IC 410-153227/16	20.0	15.501172	50.0	143773.0	0.775059	Y
4	IC 410-153227/15	40.0	36.788444	50.0	119562.0	0.919711	Y
5	IC 410-153227/14	100.0	83.916651	50.0	140518.0	0.839167	Y
6	ICIS 410-153227/13	200.0	172.627684	50.0	143636.0	0.863138	Y
7	IC 410-153227/12	500.0	541.307407	50.0	137853.0	1.082615	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

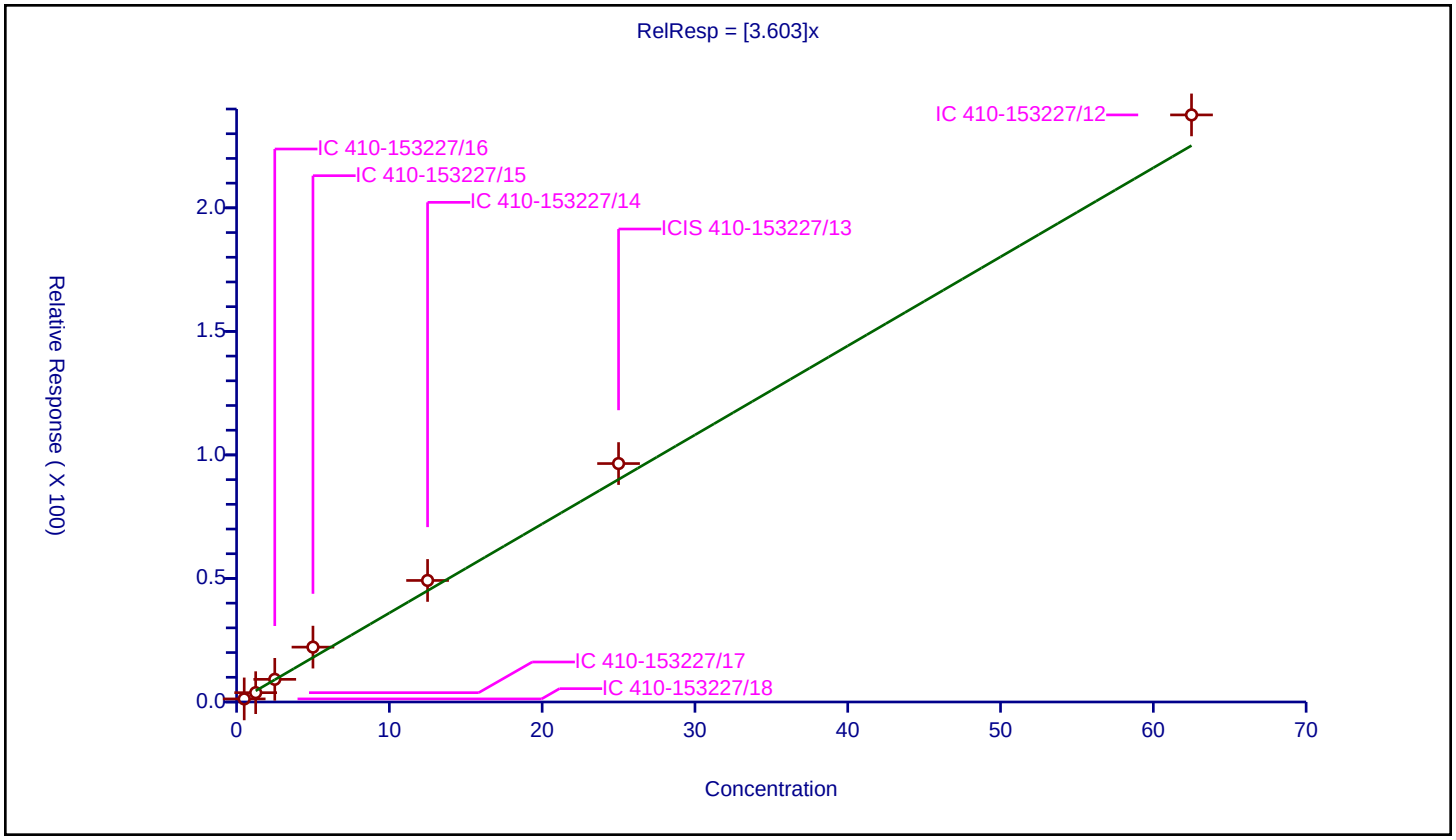
Curve Coefficients

Intercept:	0
Slope:	3.603

Error Coefficients

Standard Error:	297000
Relative Standard Error:	17.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.965

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.5	1.251214	50.0	158566.0	2.502428	Y
2	IC 410-153227/17	1.25	3.771004	50.0	146579.0	3.016803	Y
3	IC 410-153227/16	2.5	9.163403	50.0	143773.0	3.665361	Y
4	IC 410-153227/15	5.0	22.207307	50.0	119562.0	4.441461	Y
5	IC 410-153227/14	12.5	49.185514	50.0	140518.0	3.934841	Y
6	ICIS 410-153227/13	25.0	96.510972	50.0	143636.0	3.860439	Y
7	IC 410-153227/12	62.5	237.610353	50.0	137853.0	3.801766	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

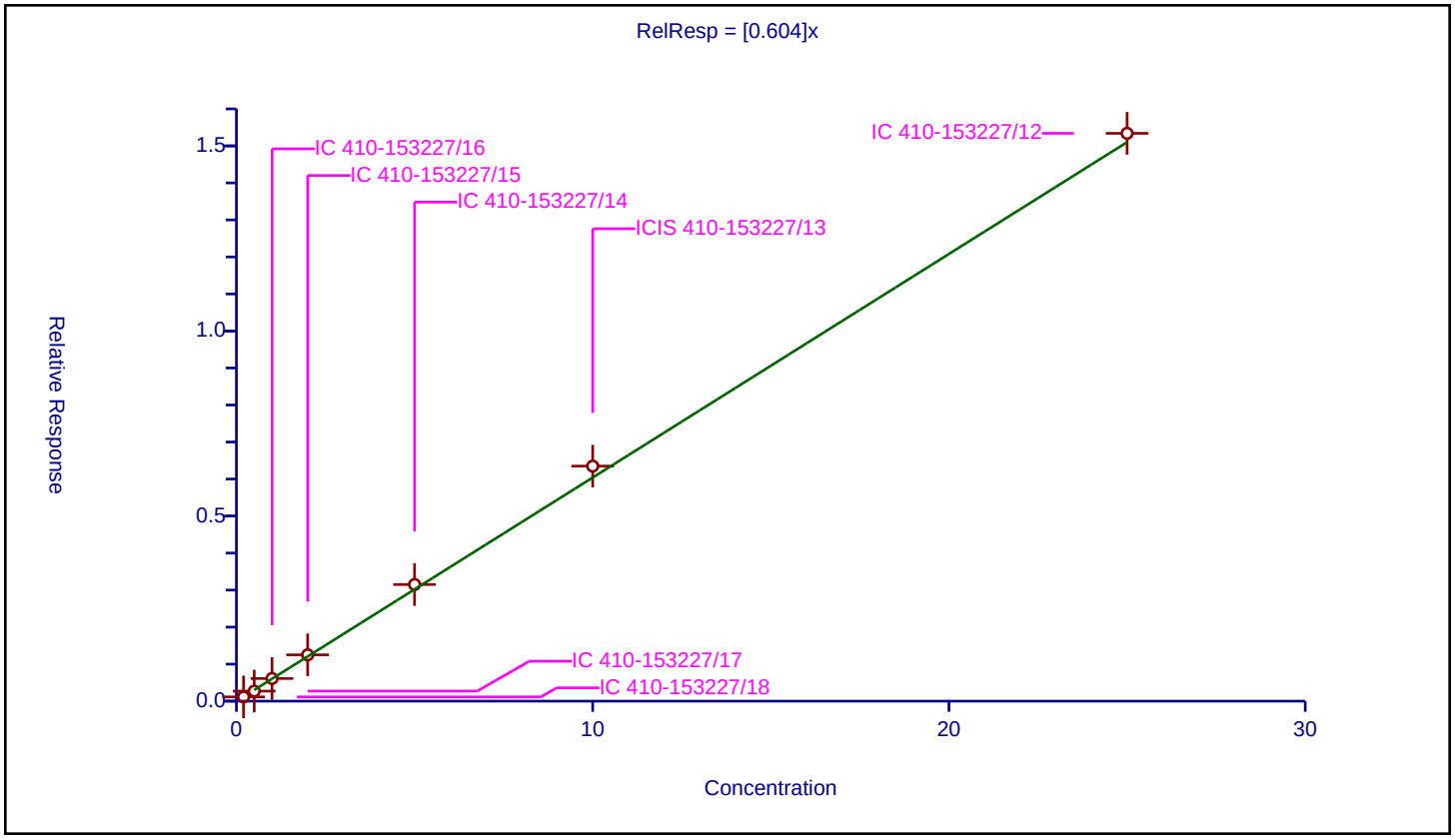
Curve Coefficients

Intercept:	0
Slope:	0.604

Error Coefficients

Standard Error:	1350000
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 410-153227/18	0.2	0.113868	10.0	1878059.0	0.569338	Y
2	IC 410-153227/17	0.5	0.271426	10.0	1875578.0	0.542851	Y
3	IC 410-153227/16	1.0	0.611745	10.0	1893045.0	0.611745	Y
4	IC 410-153227/15	2.0	1.250966	10.0	1914569.0	0.625483	Y
5	IC 410-153227/14	5.0	3.151172	10.0	1958598.0	0.630234	Y
6	ICIS 410-153227/13	10.0	6.349466	10.0	1956692.0	0.634947	Y
7	IC 410-153227/12	25.0	15.339659	10.0	1951930.0	0.613586	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

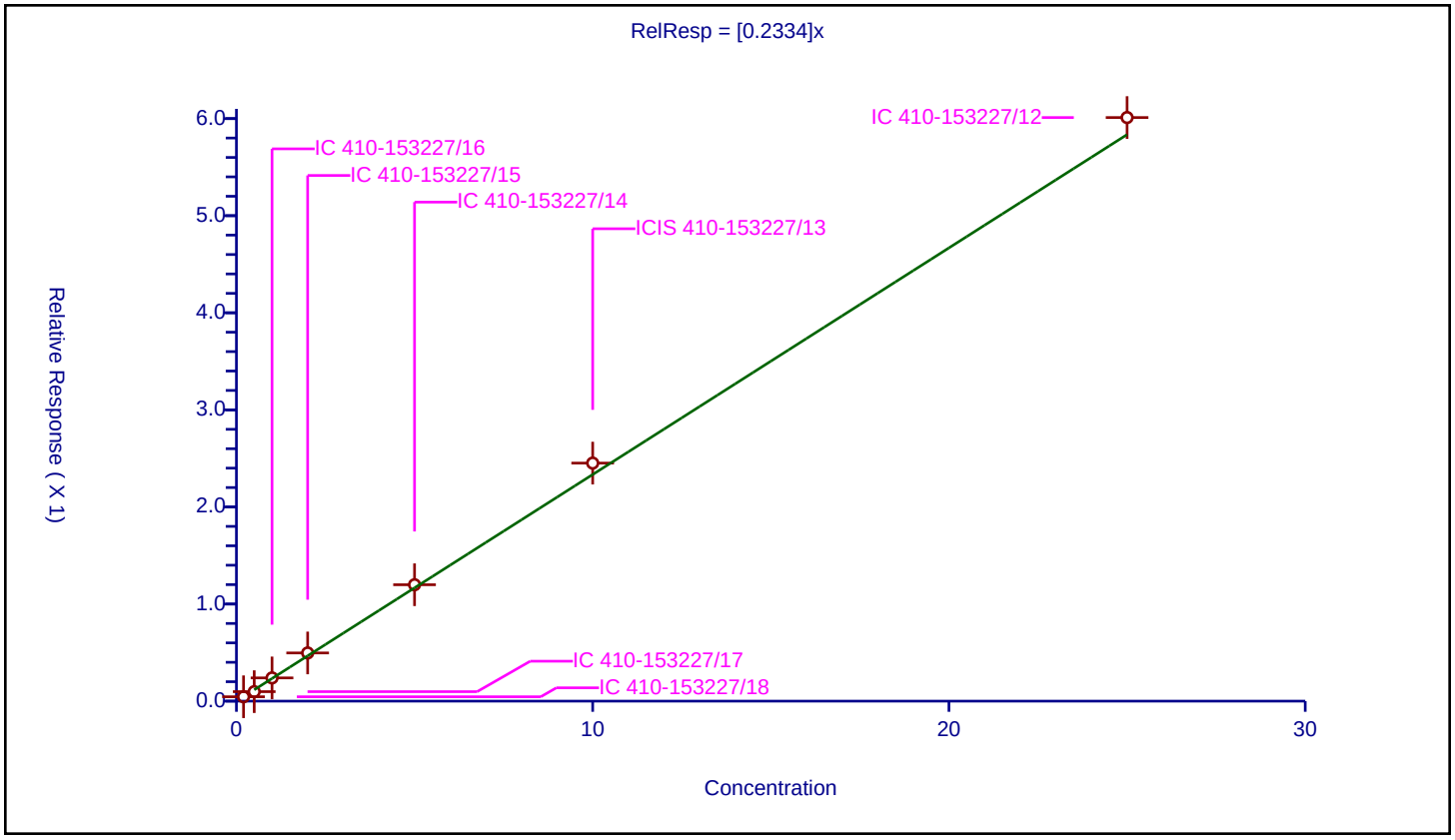
Curve Coefficients

Intercept:	0
Slope:	0.2334

Error Coefficients

Standard Error:	528000
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 410-153227/18	0.2	0.045031	10.0	1878059.0	0.225153	Y
2	IC 410-153227/17	0.5	0.097874	10.0	1875578.0	0.195748	Y
3	IC 410-153227/16	1.0	0.23936	10.0	1893045.0	0.23936	Y
4	IC 410-153227/15	2.0	0.496441	10.0	1914569.0	0.24822	Y
5	IC 410-153227/14	5.0	1.19898	10.0	1958598.0	0.239796	Y
6	ICIS 410-153227/13	10.0	2.451837	10.0	1956692.0	0.245184	Y
7	IC 410-153227/12	25.0	6.010943	10.0	1951930.0	0.240438	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

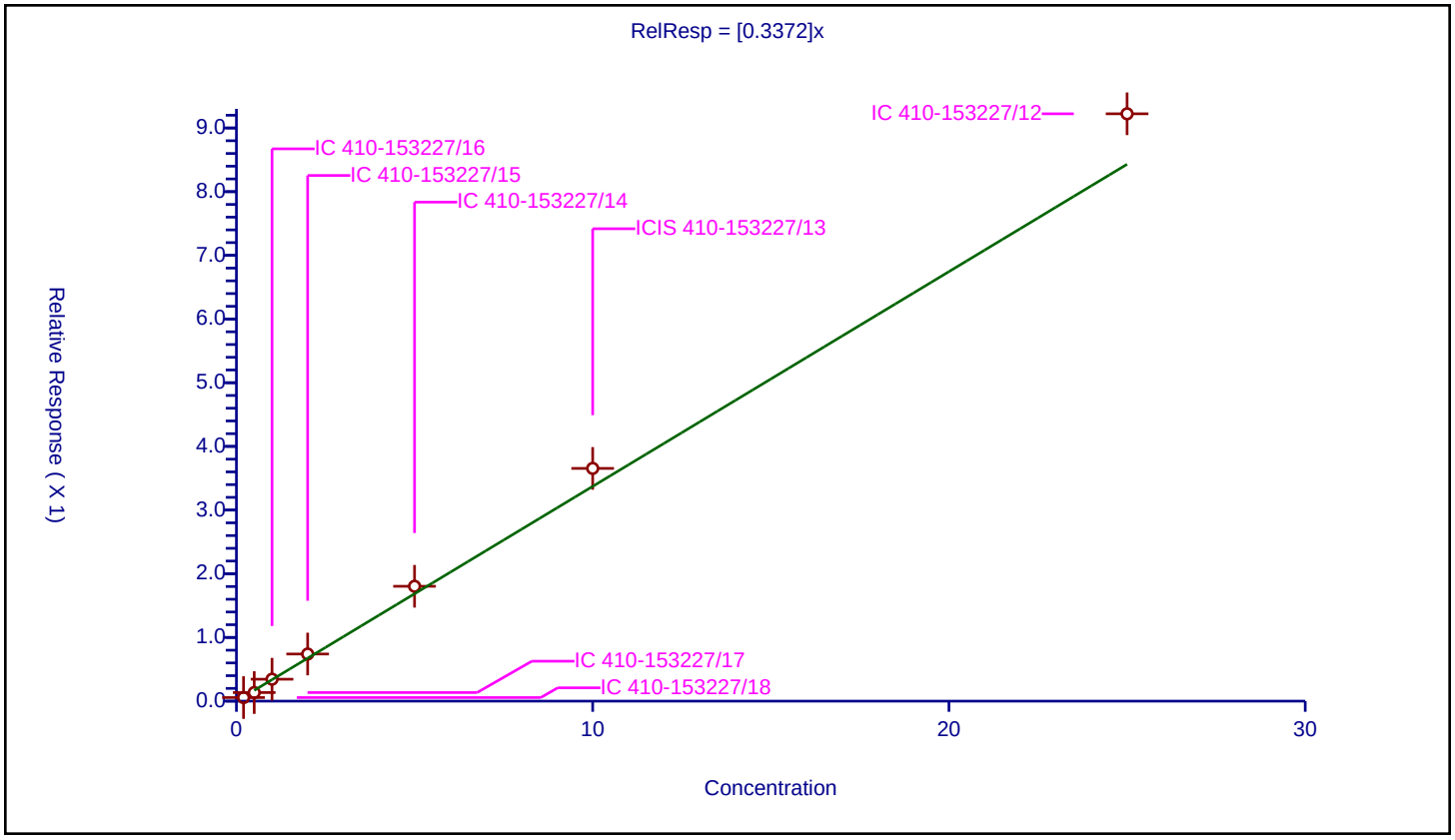
Curve Coefficients

Intercept:	0
Slope:	0.3372

Error Coefficients

Standard Error:	806000
Relative Standard Error:	12.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.056266	10.0	1878059.0	0.281328	Y
2	IC 410-153227/17	0.5	0.134796	10.0	1875578.0	0.269592	Y
3	IC 410-153227/16	1.0	0.344577	10.0	1893045.0	0.344577	Y
4	IC 410-153227/15	2.0	0.739905	10.0	1914569.0	0.369953	Y
5	IC 410-153227/14	5.0	1.803729	10.0	1958598.0	0.360746	Y
6	ICIS 410-153227/13	10.0	3.654546	10.0	1956692.0	0.365455	Y
7	IC 410-153227/12	25.0	9.222836	10.0	1951930.0	0.368913	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

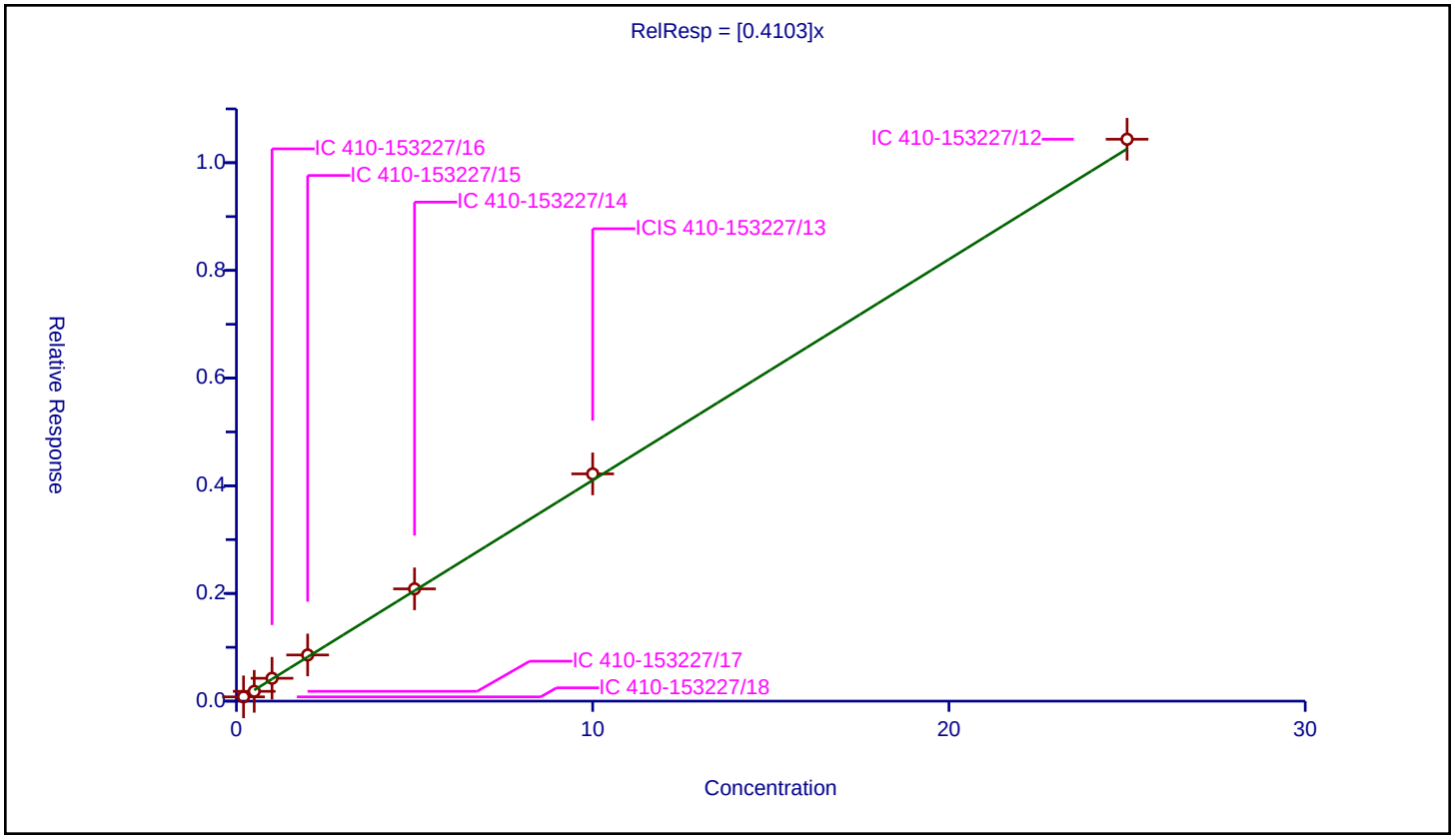
Curve Coefficients

Intercept:	0
Slope:	0.4103

Error Coefficients

Standard Error:	916000
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 410-153227/18	0.2	0.079449	10.0	1878059.0	0.397245	Y
2	IC 410-153227/17	0.5	0.182317	10.0	1875578.0	0.364634	Y
3	IC 410-153227/16	1.0	0.424813	10.0	1893045.0	0.424813	Y
4	IC 410-153227/15	2.0	0.857551	10.0	1914569.0	0.428775	Y
5	IC 410-153227/14	5.0	2.085129	10.0	1958598.0	0.417026	Y
6	ICIS 410-153227/13	10.0	4.221037	10.0	1956692.0	0.422104	Y
7	IC 410-153227/12	25.0	10.436307	10.0	1951930.0	0.417452	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

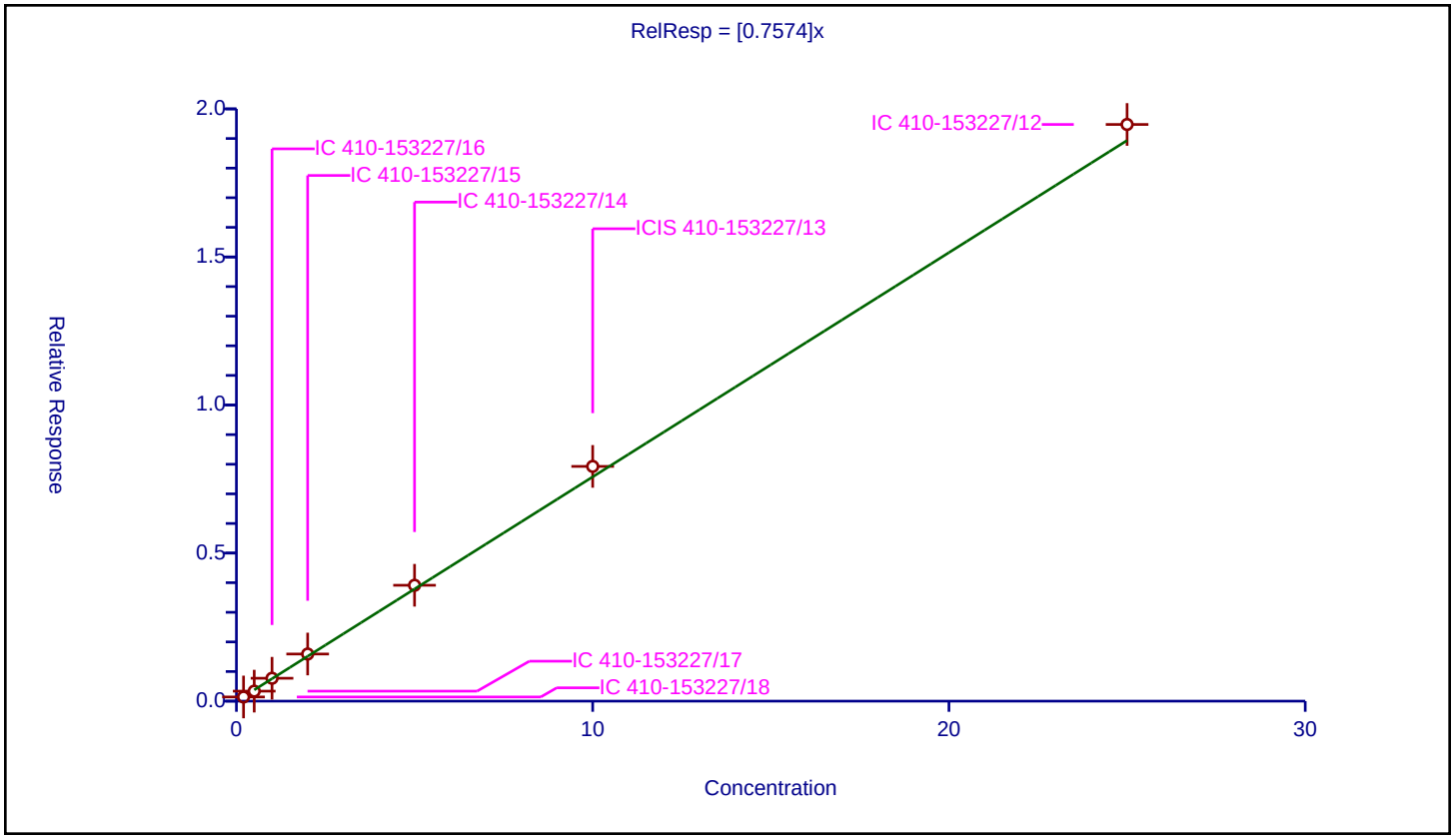
Curve Coefficients

Intercept:	0
Slope:	0.7574

Error Coefficients

Standard Error:	1710000
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 410-153227/18	0.2	0.140544	10.0	1878059.0	0.70272	Y
2	IC 410-153227/17	0.5	0.338034	10.0	1875578.0	0.676069	Y
3	IC 410-153227/16	1.0	0.772707	10.0	1893045.0	0.772707	Y
4	IC 410-153227/15	2.0	1.591685	10.0	1914569.0	0.795842	Y
5	IC 410-153227/14	5.0	3.912559	10.0	1958598.0	0.782512	Y
6	ICIS 410-153227/13	10.0	7.927282	10.0	1956692.0	0.792728	Y
7	IC 410-153227/12	25.0	19.473454	10.0	1951930.0	0.778938	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

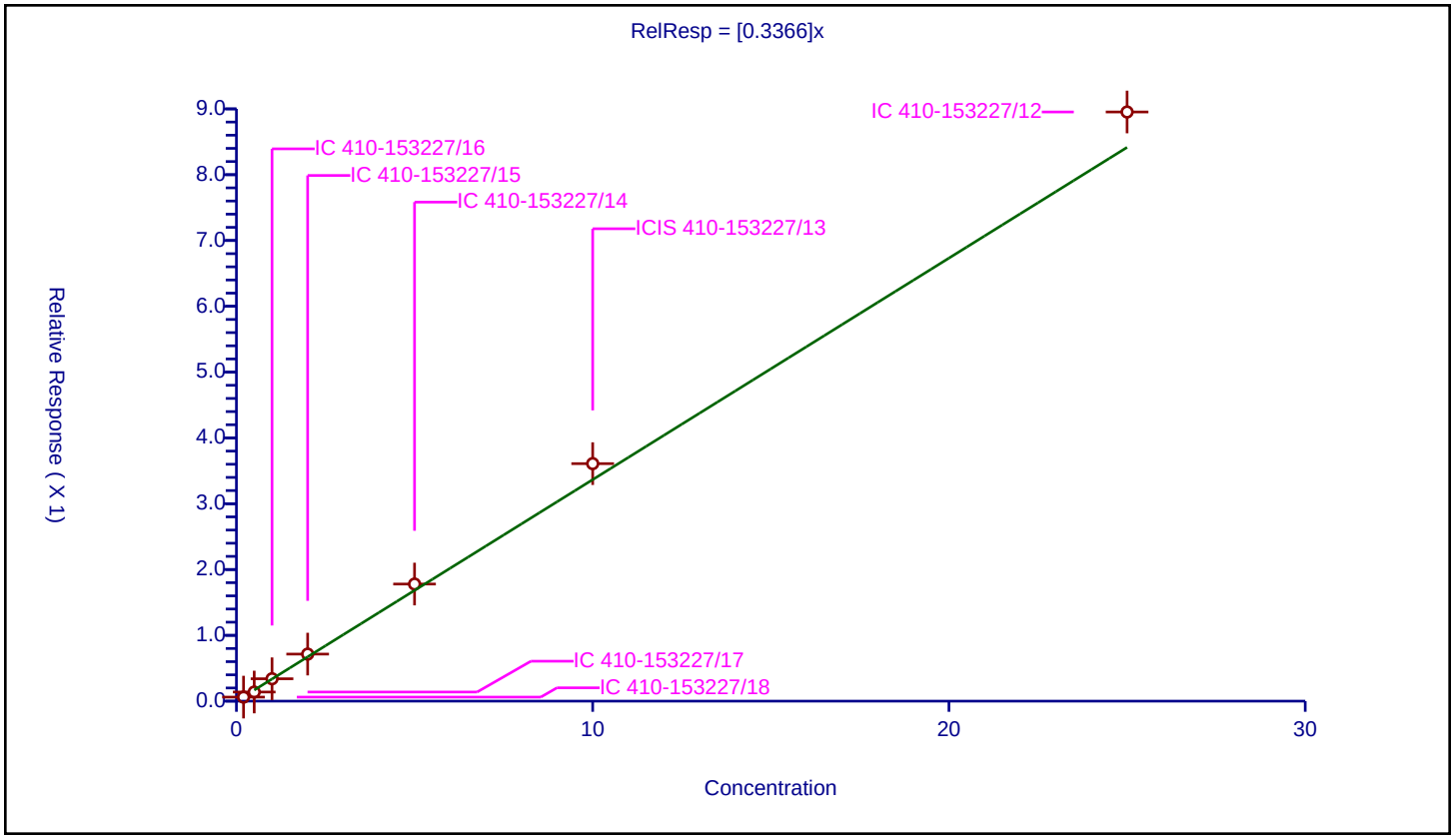
Curve Coefficients

Intercept:	0
Slope:	0.3366

Error Coefficients

Standard Error:	785000
Relative Standard Error:	9.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.061287	10.0	1878059.0	0.306433	Y
2	IC 410-153227/17	0.5	0.138523	10.0	1875578.0	0.277045	Y
3	IC 410-153227/16	1.0	0.34033	10.0	1893045.0	0.34033	Y
4	IC 410-153227/15	2.0	0.715096	10.0	1914569.0	0.357548	Y
5	IC 410-153227/14	5.0	1.779446	10.0	1958598.0	0.355889	Y
6	ICIS 410-153227/13	10.0	3.609403	10.0	1956692.0	0.36094	Y
7	IC 410-153227/12	25.0	8.952965	10.0	1951930.0	0.358119	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

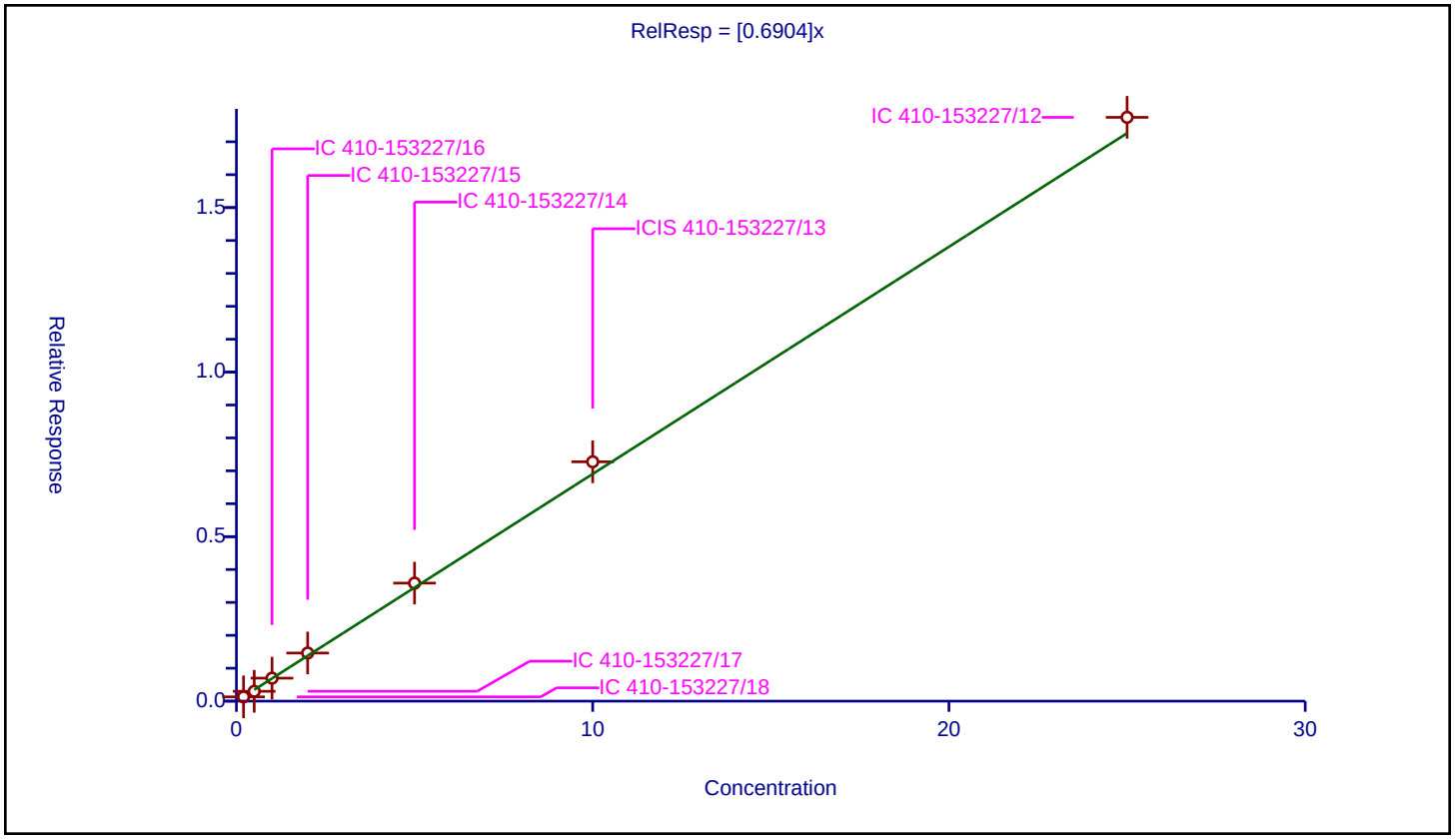
Curve Coefficients

Intercept:	0
Slope:	0.6904

Error Coefficients

Standard Error:	1560000
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 410-153227/18	0.2	0.130044	10.0	1878059.0	0.650219	Y
2	IC 410-153227/17	0.5	0.299097	10.0	1875578.0	0.598194	Y
3	IC 410-153227/16	1.0	0.699059	10.0	1893045.0	0.699059	Y
4	IC 410-153227/15	2.0	1.462058	10.0	1914569.0	0.731029	Y
5	IC 410-153227/14	5.0	3.586867	10.0	1958598.0	0.717373	Y
6	ICIS 410-153227/13	10.0	7.27464	10.0	1956692.0	0.727464	Y
7	IC 410-153227/12	25.0	17.743136	10.0	1951930.0	0.709725	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

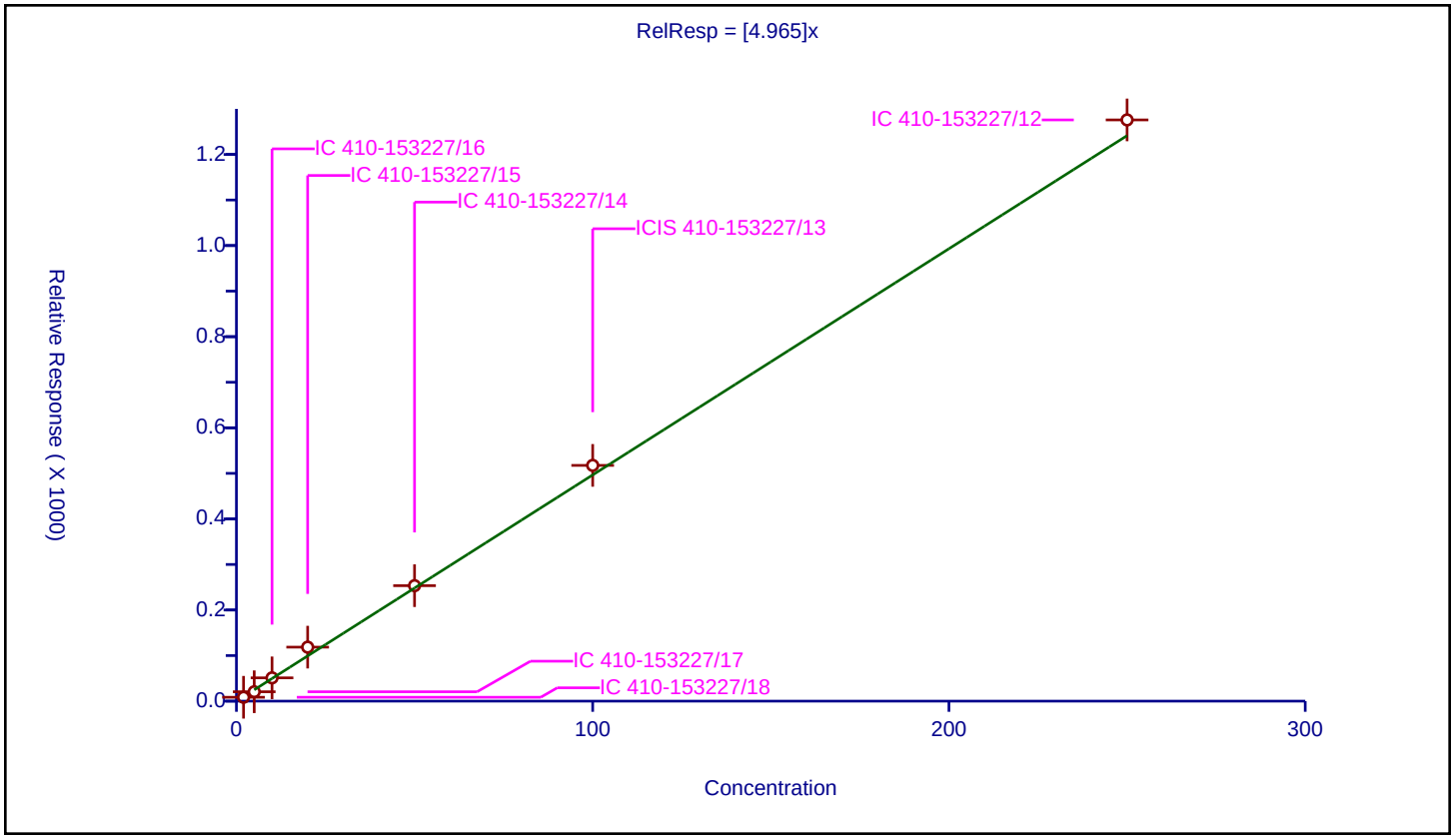
Curve Coefficients

Intercept:	0
Slope:	4.965

Error Coefficients

Standard Error:	1590000
Relative Standard Error:	12.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	2.0	8.513174	50.0	158566.0	4.256587	Y
2	IC 410-153227/17	5.0	20.58344	50.0	146579.0	4.116688	Y
3	IC 410-153227/16	10.0	51.104519	50.0	143773.0	5.110452	Y
4	IC 410-153227/15	20.0	118.512571	50.0	119562.0	5.925629	Y
5	IC 410-153227/14	50.0	253.482472	50.0	140518.0	5.069649	Y
6	ICIS 410-153227/13	100.0	517.454538	50.0	143636.0	5.174545	Y
7	IC 410-153227/12	250.0	1275.801397	50.0	137853.0	5.103206	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

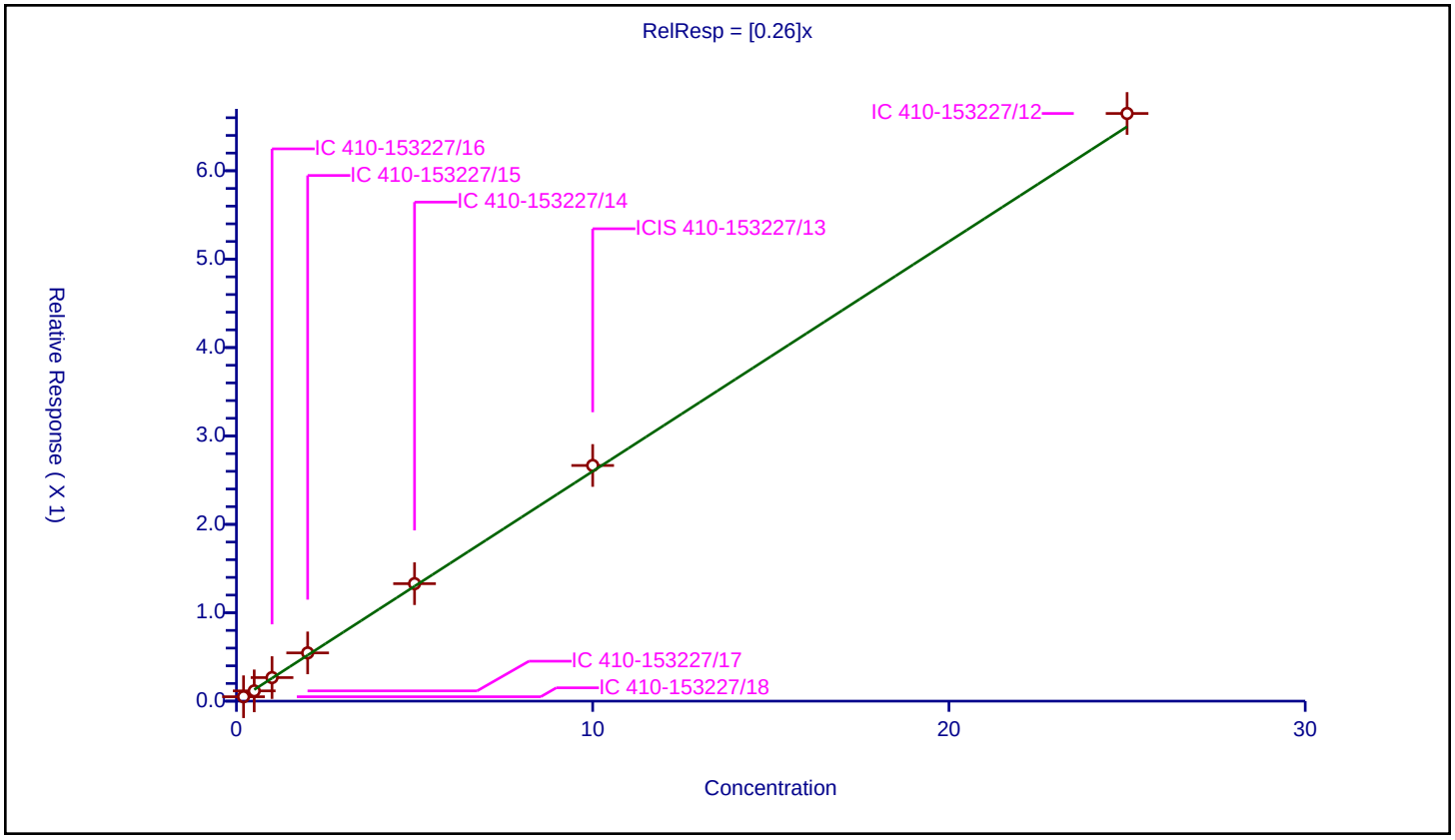
Curve Coefficients

Intercept:	0
Slope:	0.26

Error Coefficients

Standard Error:	583000
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 410-153227/18	0.2	0.049961	10.0	1878059.0	0.249806	Y
2	IC 410-153227/17	0.5	0.11606	10.0	1875578.0	0.23212	Y
3	IC 410-153227/16	1.0	0.266549	10.0	1893045.0	0.266549	Y
4	IC 410-153227/15	2.0	0.545951	10.0	1914569.0	0.272975	Y
5	IC 410-153227/14	5.0	1.328935	10.0	1958598.0	0.265787	Y
6	ICIS 410-153227/13	10.0	2.666061	10.0	1956692.0	0.266606	Y
7	IC 410-153227/12	25.0	6.648199	10.0	1951930.0	0.265928	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

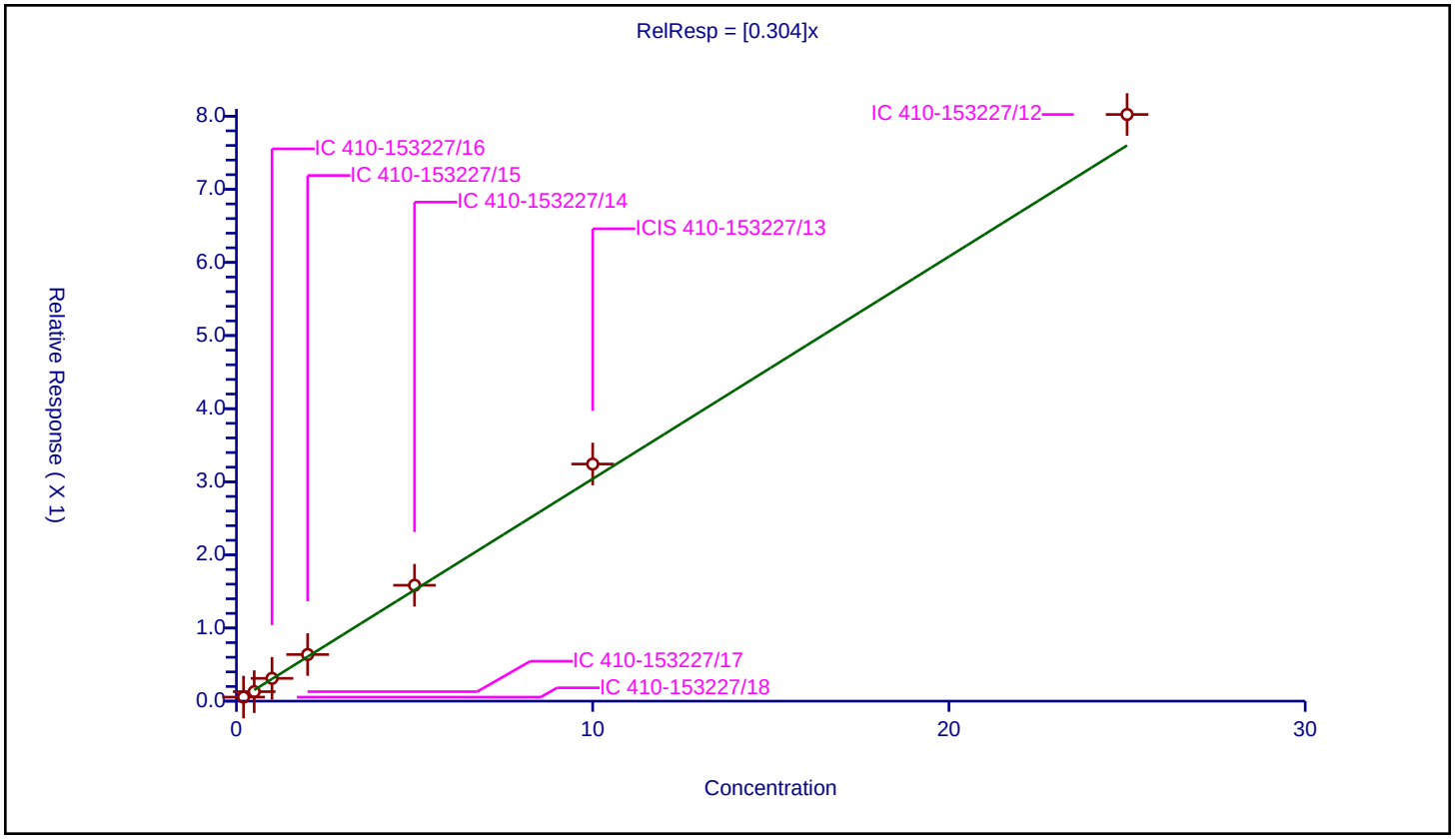
Curve Coefficients

Intercept:	0
Slope:	0.304

Error Coefficients

Standard Error:	704000
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 410-153227/18	0.2	0.055201	10.0	1878059.0	0.276003	Y
2	IC 410-153227/17	0.5	0.129784	10.0	1875578.0	0.259568	Y
3	IC 410-153227/16	1.0	0.311546	10.0	1893045.0	0.311546	Y
4	IC 410-153227/15	2.0	0.63759	10.0	1914569.0	0.318795	Y
5	IC 410-153227/14	5.0	1.584588	10.0	1958598.0	0.316918	Y
6	ICIS 410-153227/13	10.0	3.242692	10.0	1956692.0	0.324269	Y
7	IC 410-153227/12	25.0	8.023587	10.0	1951930.0	0.320943	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

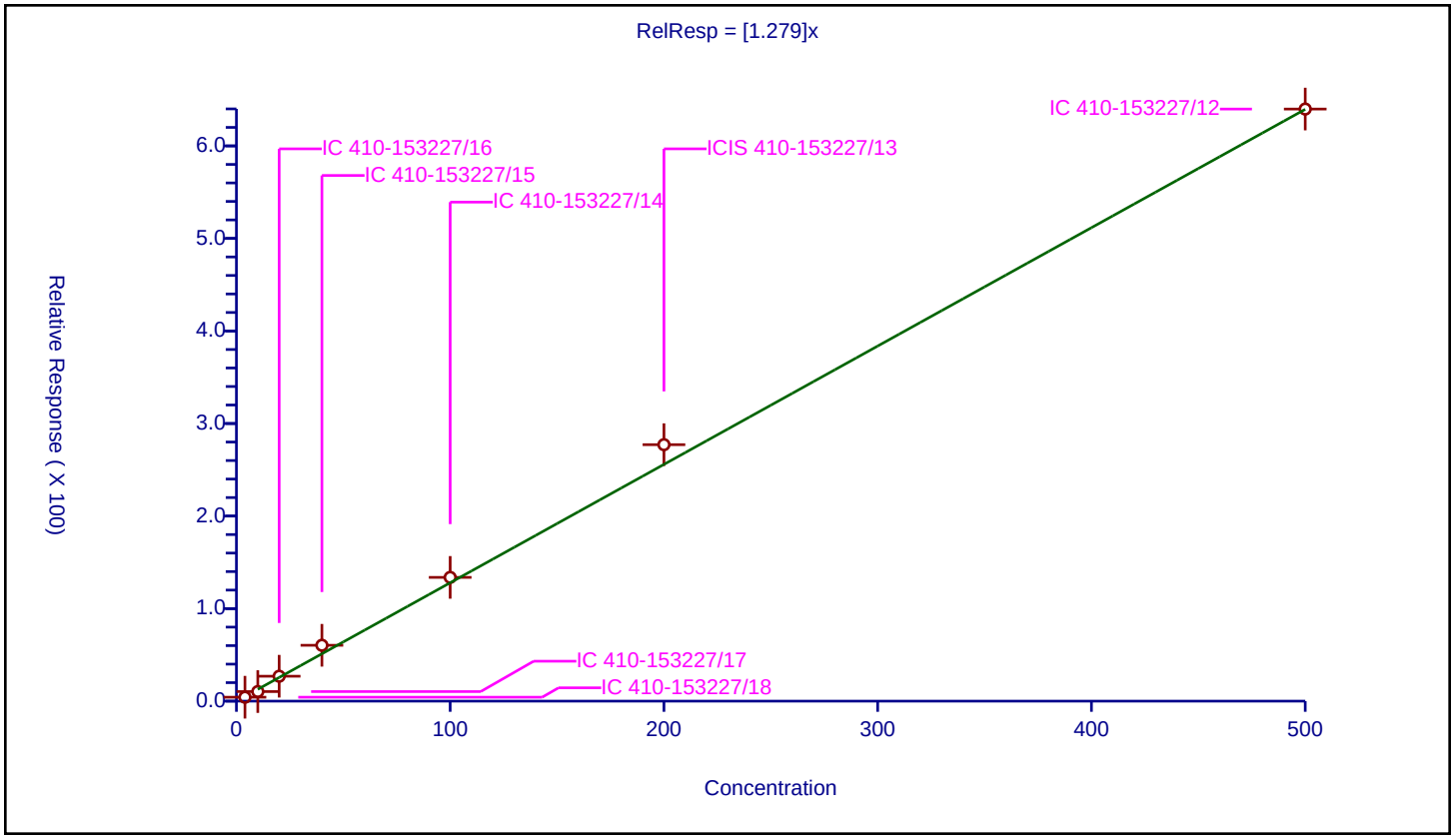
Curve Coefficients

Intercept:	0
Slope:	1.279

Error Coefficients

Standard Error:	807000
Relative Standard Error:	13.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	4.0	4.24492	50.0	158566.0	1.06123	Y
2	IC 410-153227/17	10.0	10.346639	50.0	146579.0	1.034664	Y
3	IC 410-153227/16	20.0	26.916041	50.0	143773.0	1.345802	Y
4	IC 410-153227/15	40.0	60.367006	50.0	119562.0	1.509175	Y
5	IC 410-153227/14	100.0	133.729131	50.0	140518.0	1.337291	Y
6	ICIS 410-153227/13	200.0	277.148835	50.0	143636.0	1.385744	Y
7	IC 410-153227/12	500.0	639.837726	50.0	137853.0	1.279675	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

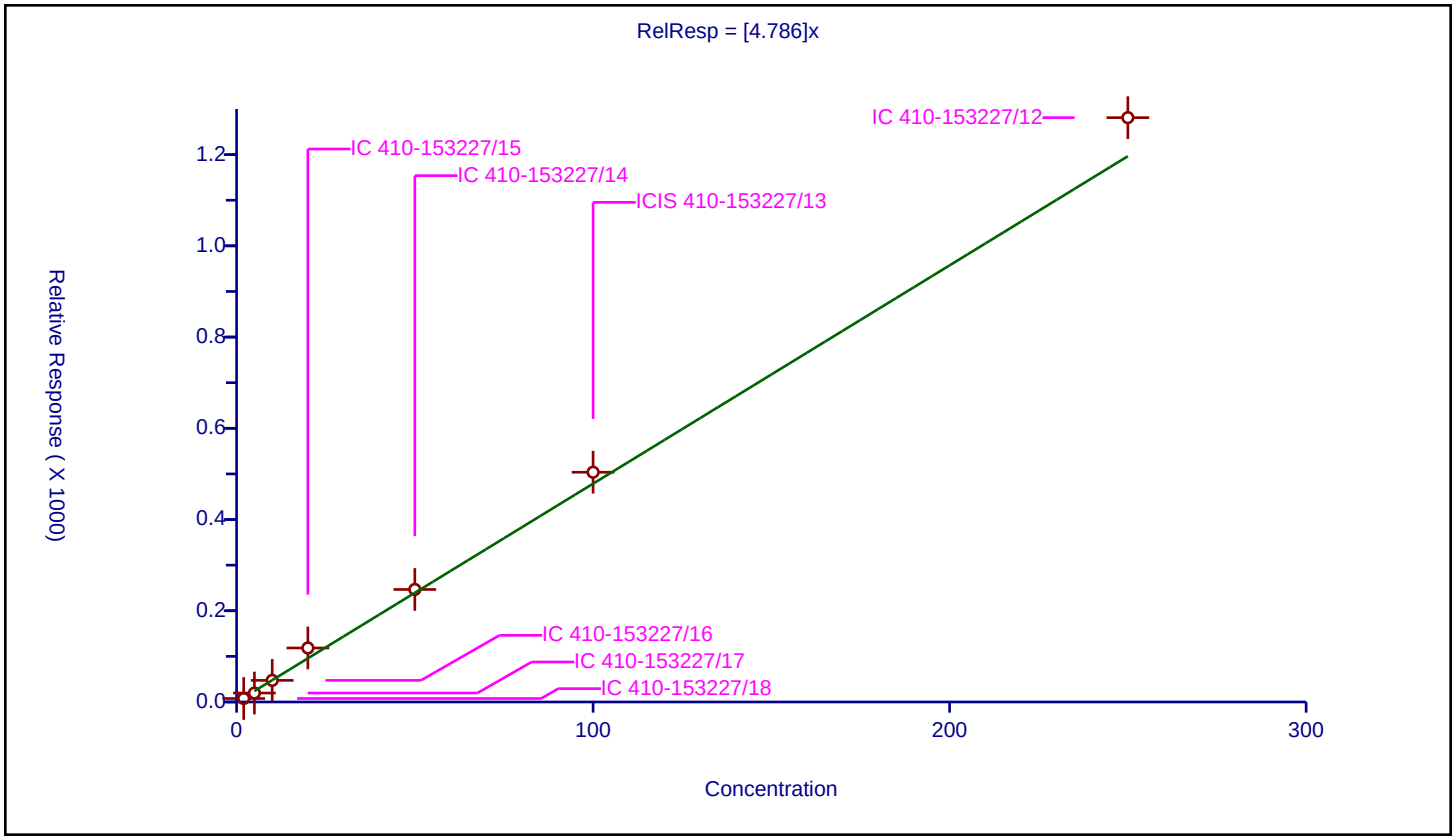
Curve Coefficients

Intercept:	0
Slope:	4.786

Error Coefficients

Standard Error:	1590000
Relative Standard Error:	15.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	2.0	7.650442	50.0	158566.0	3.825221	Y
2	IC 410-153227/17	5.0	19.613655	50.0	146579.0	3.922731	Y
3	IC 410-153227/16	10.0	47.386505	50.0	143773.0	4.738651	Y
4	IC 410-153227/15	20.0	118.423078	50.0	119562.0	5.921154	Y
5	IC 410-153227/14	50.0	246.693662	50.0	140518.0	4.933873	Y
6	ICIS 410-153227/13	100.0	503.704155	50.0	143636.0	5.037042	Y
7	IC 410-153227/12	250.0	1281.056633	50.0	137853.0	5.124227	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

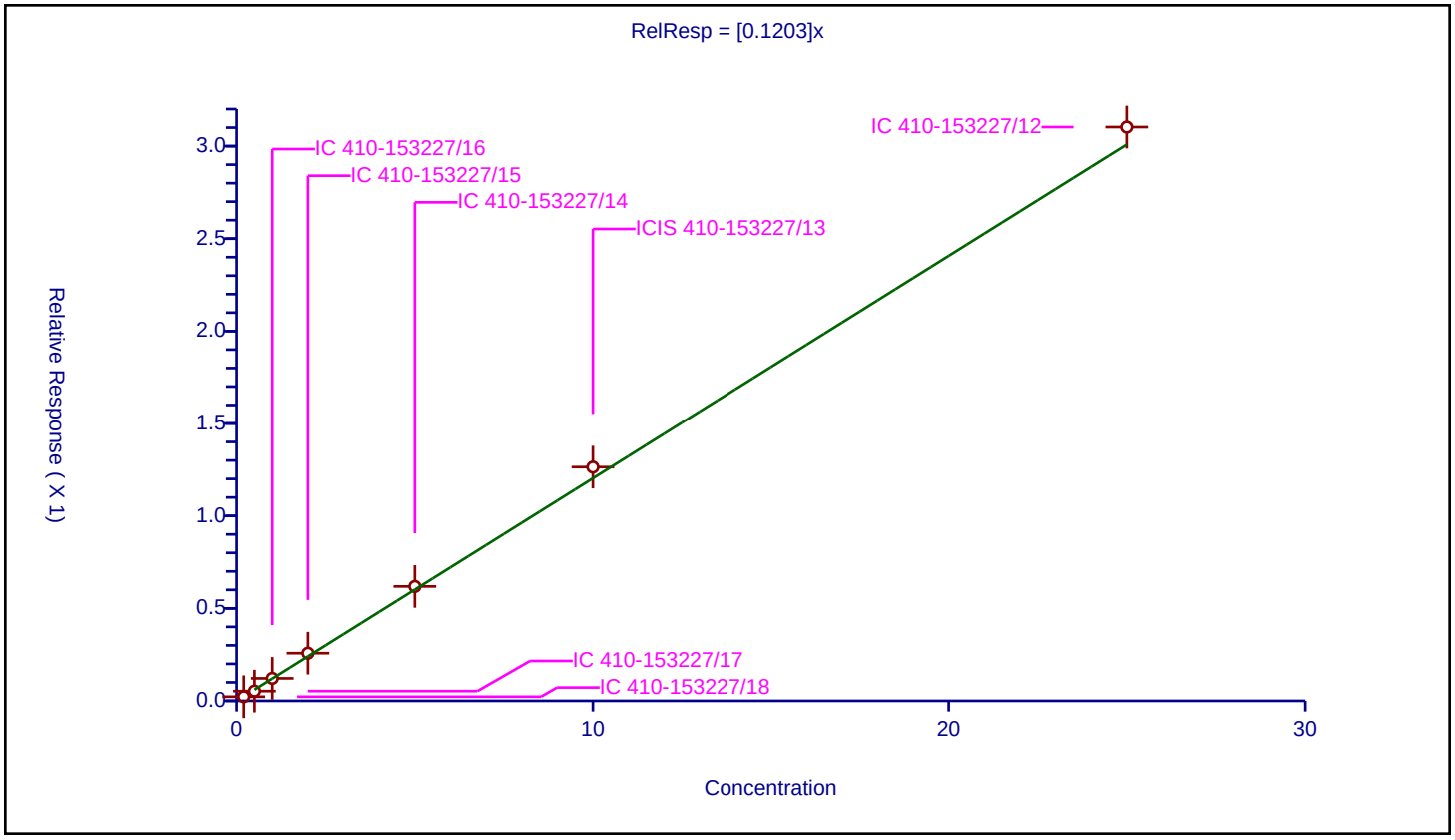
Curve Coefficients

Intercept:	0
Slope:	0.1203

Error Coefficients

Standard Error:	273000
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.02239	10.0	1878059.0	0.111951	Y
2	IC 410-153227/17	0.5	0.052762	10.0	1875578.0	0.105525	Y
3	IC 410-153227/16	1.0	0.121725	10.0	1893045.0	0.121725	Y
4	IC 410-153227/15	2.0	0.25787	10.0	1914569.0	0.128935	Y
5	IC 410-153227/14	5.0	0.618733	10.0	1958598.0	0.123747	Y
6	ICIS 410-153227/13	10.0	1.264149	10.0	1956692.0	0.126415	Y
7	IC 410-153227/12	25.0	3.103067	10.0	1951930.0	0.124123	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

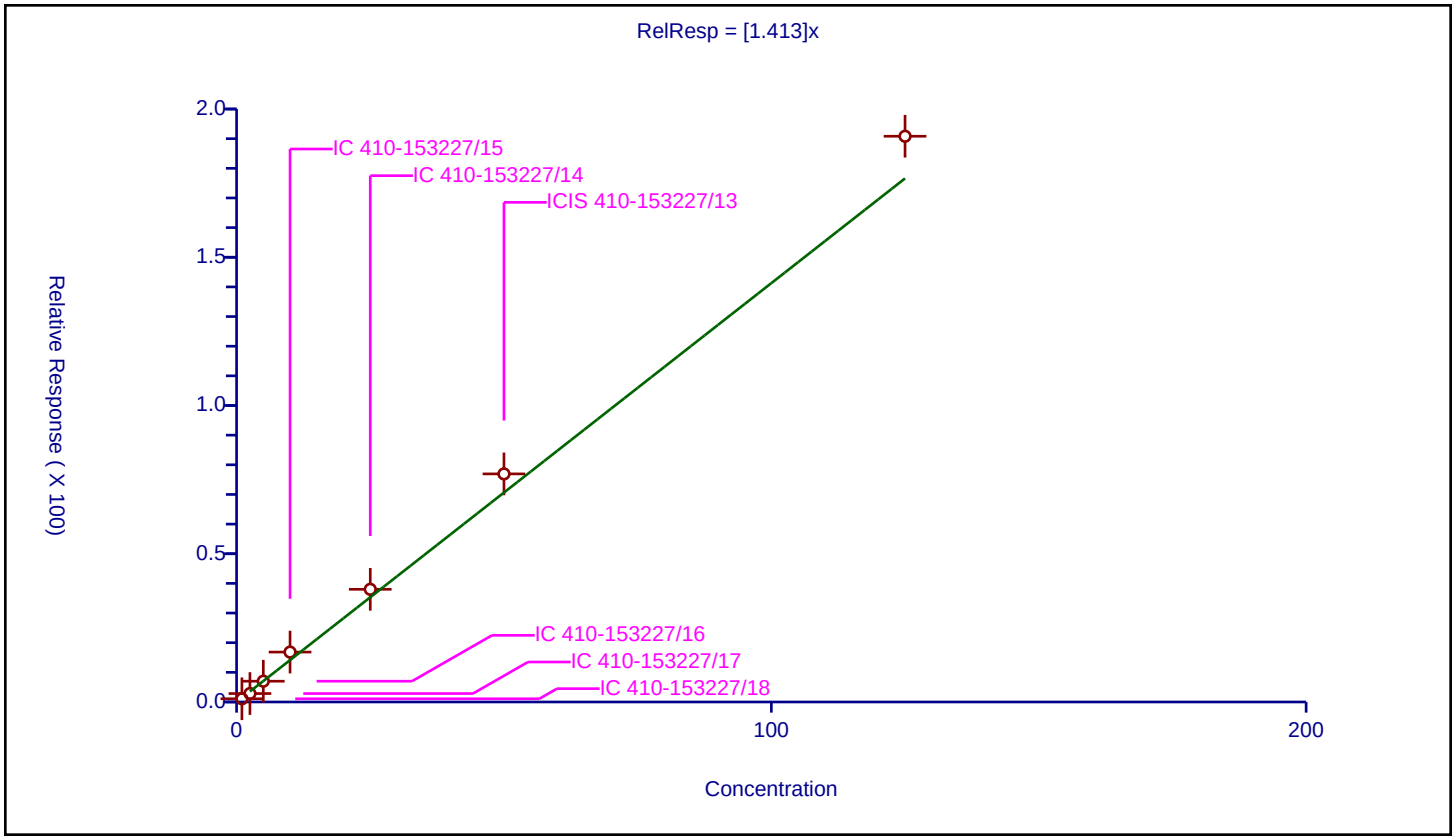
Curve Coefficients

Intercept:	0
Slope:	1.413

Error Coefficients

Standard Error:	238000
Relative Standard Error:	15.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	1.0	1.081569	50.0	158566.0	1.081569	Y
2	IC 410-153227/17	2.5	2.842494	50.0	146579.0	1.136998	Y
3	IC 410-153227/16	5.0	7.008966	50.0	143773.0	1.401793	Y
4	IC 410-153227/15	10.0	16.835617	50.0	119562.0	1.683562	Y
5	IC 410-153227/14	25.0	38.00474	50.0	140518.0	1.52019	Y
6	ICIS 410-153227/13	50.0	76.930923	50.0	143636.0	1.538618	Y
7	IC 410-153227/12	125.0	190.815216	50.0	137853.0	1.526522	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

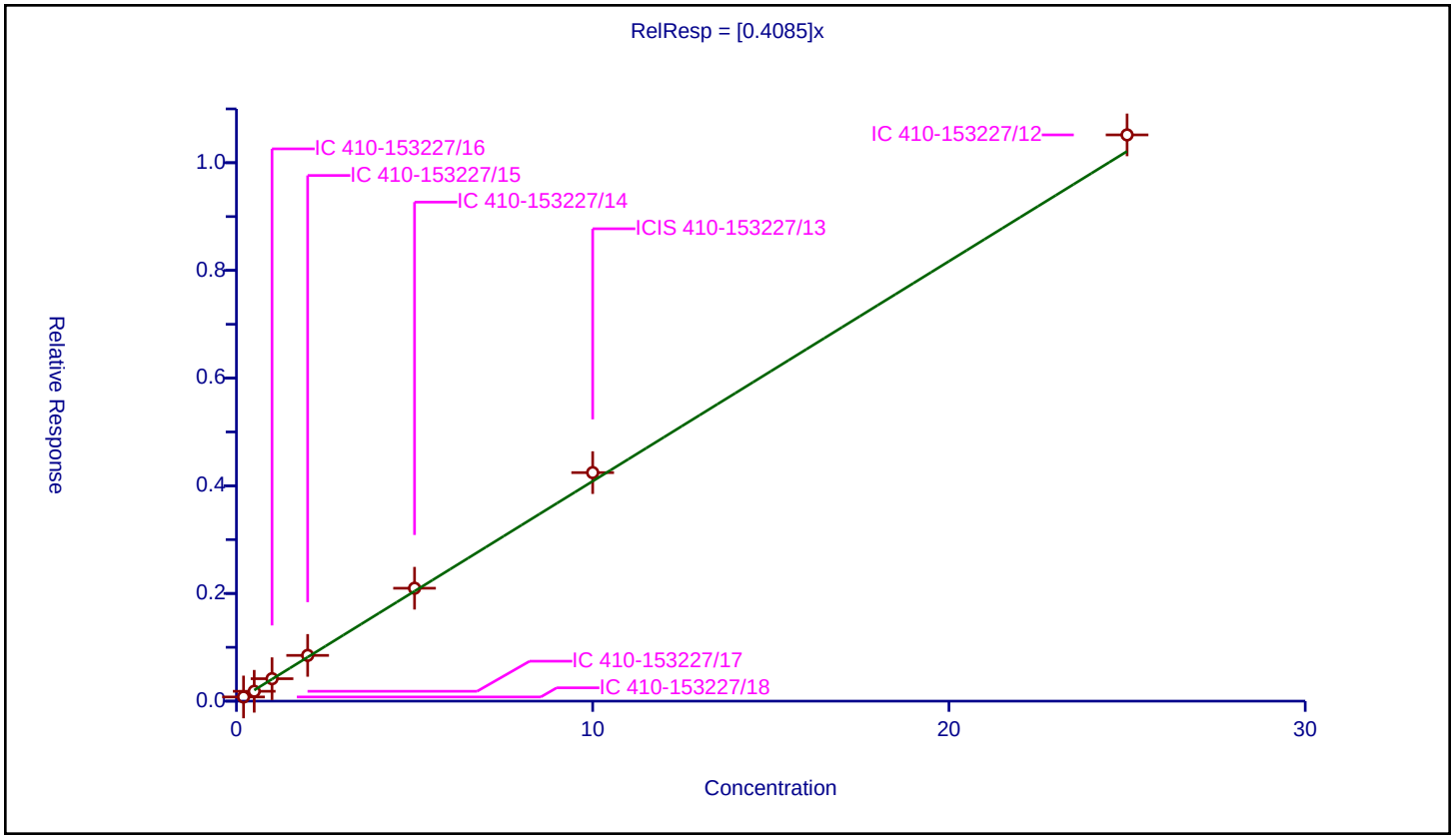
Curve Coefficients

Intercept:	0
Slope:	0.4085

Error Coefficients

Standard Error:	923000
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 410-153227/18	0.2	0.077447	10.0	1878059.0	0.387235	Y
2	IC 410-153227/17	0.5	0.183101	10.0	1875578.0	0.366202	Y
3	IC 410-153227/16	1.0	0.416768	10.0	1893045.0	0.416768	Y
4	IC 410-153227/15	2.0	0.849465	10.0	1914569.0	0.424733	Y
5	IC 410-153227/14	5.0	2.097036	10.0	1958598.0	0.419407	Y
6	ICIS 410-153227/13	10.0	4.244557	10.0	1956692.0	0.424456	Y
7	IC 410-153227/12	25.0	10.517227	10.0	1951930.0	0.420689	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

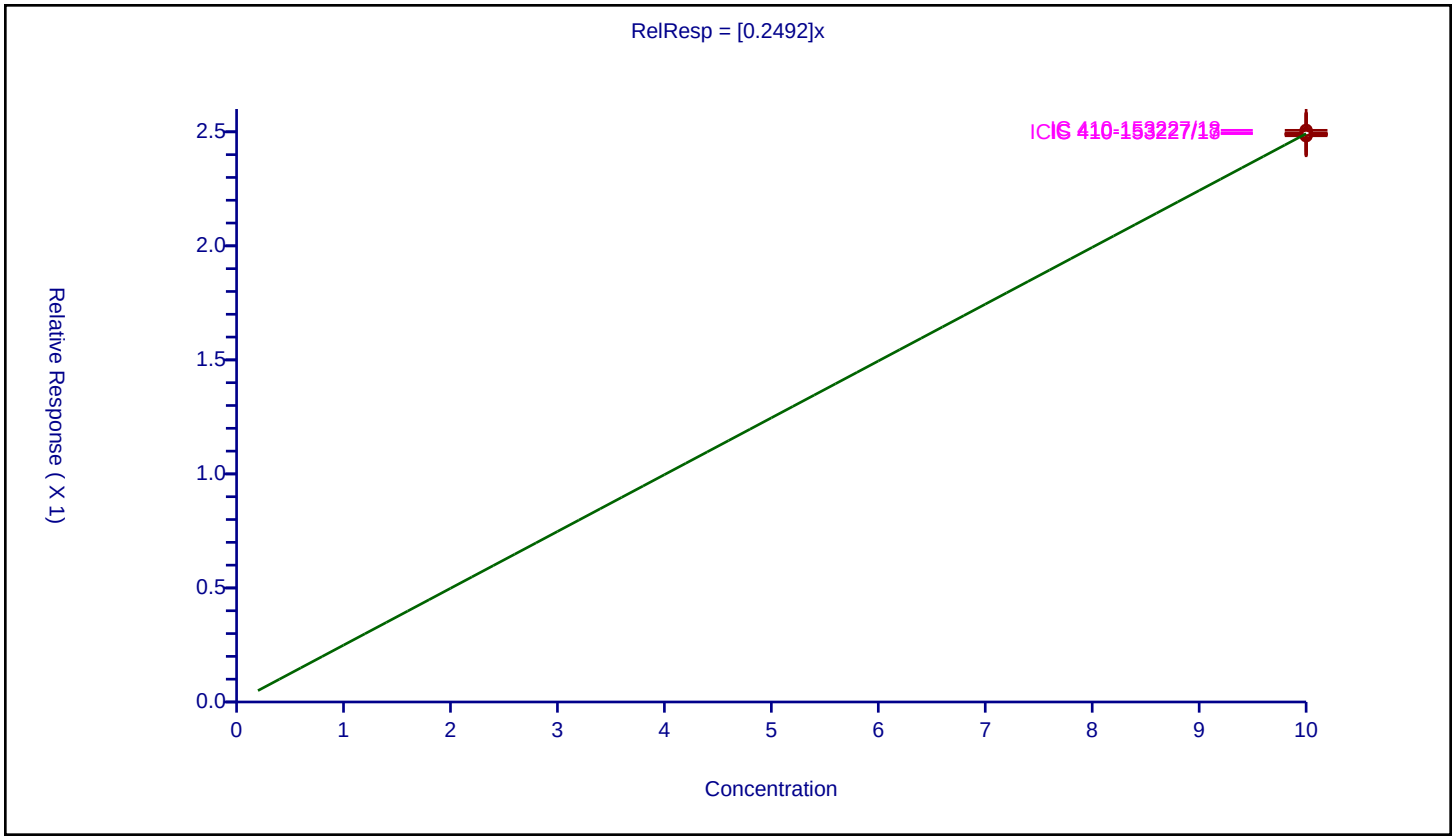
Curve Coefficients

Intercept:	0
Slope:	0.2492

Error Coefficients

Standard Error:	516000
Relative Standard Error:	0.3
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	ICIS 410-153227/13	10.0	2.493775	10.0	1956692.0	0.249378	Y
2	IC 410-153227/12	10.0	2.488696	10.0	1951930.0	0.24887	Y
3	IC 410-153227/14	10.0	2.489393	10.0	1958598.0	0.248939	Y
4	IC 410-153227/15	10.0	2.482674	10.0	1914569.0	0.248267	Y
5	IC 410-153227/16	10.0	2.488567	10.0	1893045.0	0.248857	Y
6	IC 410-153227/17	10.0	2.492218	10.0	1875578.0	0.249222	Y
7	IC 410-153227/18	10.0	2.506588	10.0	1878059.0	0.250659	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

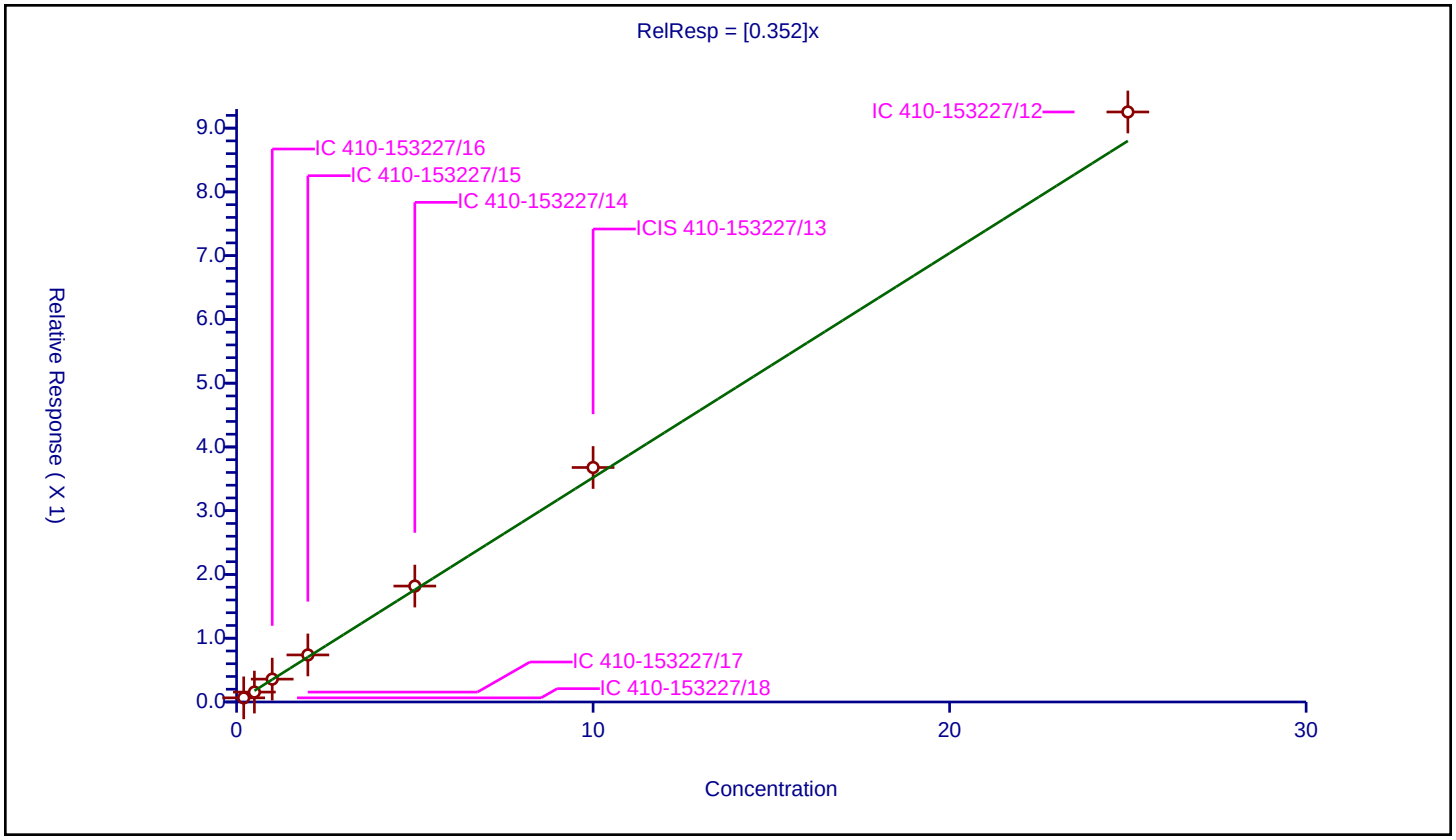
Curve Coefficients

Intercept:	0
Slope:	0.352

Error Coefficients

Standard Error:	810000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.064822	10.0	1878059.0	0.324111	Y
2	IC 410-153227/17	0.5	0.155317	10.0	1875578.0	0.310635	Y
3	IC 410-153227/16	1.0	0.358644	10.0	1893045.0	0.358644	Y
4	IC 410-153227/15	2.0	0.738009	10.0	1914569.0	0.369005	Y
5	IC 410-153227/14	5.0	1.818137	10.0	1958598.0	0.363627	Y
6	ICIS 410-153227/13	10.0	3.677528	10.0	1956692.0	0.367753	Y
7	IC 410-153227/12	25.0	9.253441	10.0	1951930.0	0.370138	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

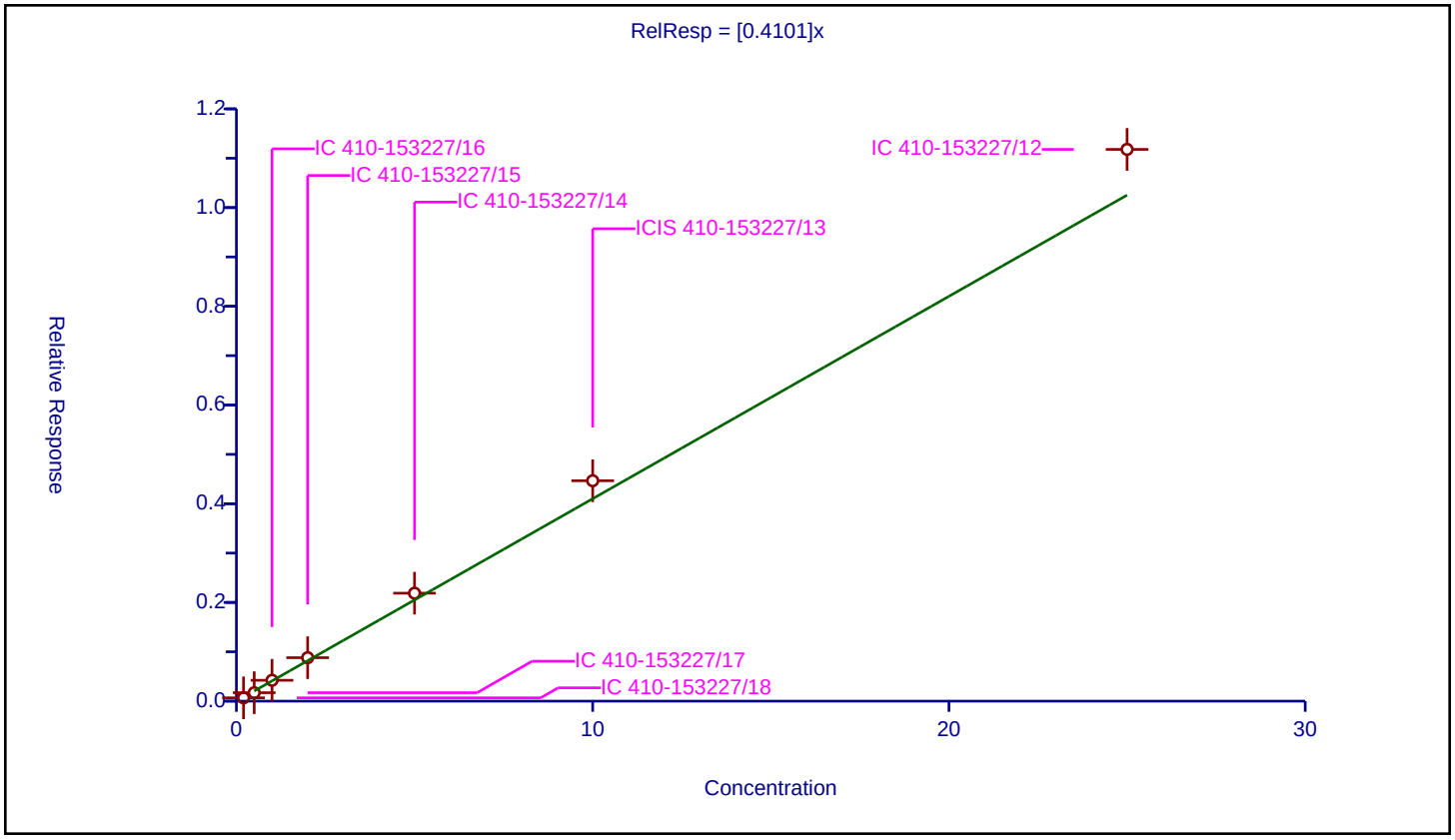
Curve Coefficients

Intercept:	0
Slope:	0.4101

Error Coefficients

Standard Error:	978000
Relative Standard Error:	12.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.067122	10.0	1878059.0	0.335612	Y
2	IC 410-153227/17	0.5	0.170635	10.0	1875578.0	0.341271	Y
3	IC 410-153227/16	1.0	0.422652	10.0	1893045.0	0.422652	Y
4	IC 410-153227/15	2.0	0.880376	10.0	1914569.0	0.440188	Y
5	IC 410-153227/14	5.0	2.187294	10.0	1958598.0	0.437459	Y
6	ICIS 410-153227/13	10.0	4.465767	10.0	1956692.0	0.446577	Y
7	IC 410-153227/12	25.0	11.179059	10.0	1951930.0	0.447162	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

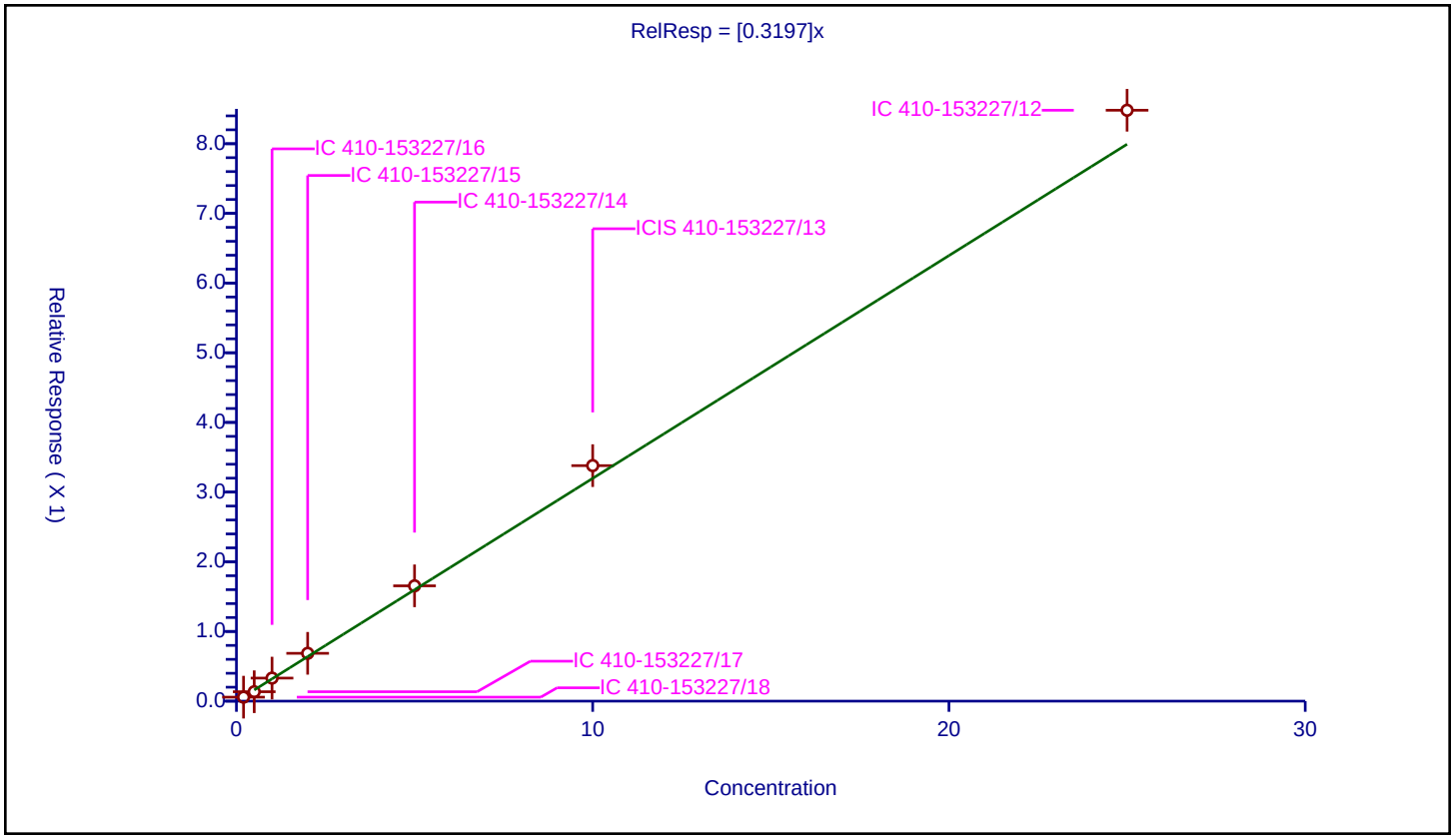
Curve Coefficients

Intercept:	0
Slope:	0.3197

Error Coefficients

Standard Error:	742000
Relative Standard Error:	9.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.057059	10.0	1878059.0	0.285295	Y
2	IC 410-153227/17	0.5	0.13518	10.0	1875578.0	0.270359	Y
3	IC 410-153227/16	1.0	0.331006	10.0	1893045.0	0.331006	Y
4	IC 410-153227/15	2.0	0.686269	10.0	1914569.0	0.343135	Y
5	IC 410-153227/14	5.0	1.65498	10.0	1958598.0	0.330996	Y
6	ICIS 410-153227/13	10.0	3.380251	10.0	1956692.0	0.338025	Y
7	IC 410-153227/12	25.0	8.480688	10.0	1951930.0	0.339228	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

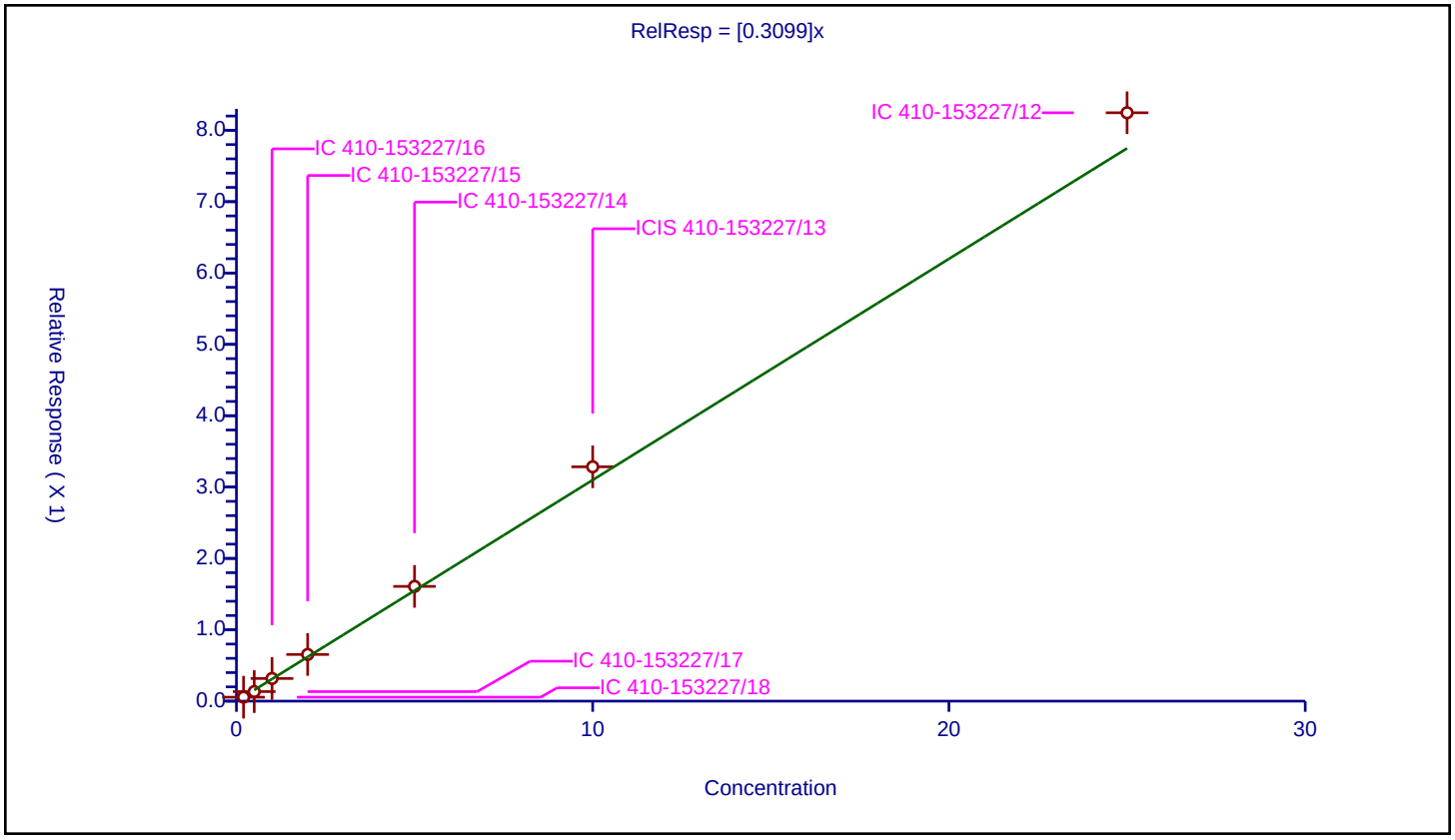
Curve Coefficients

Intercept:	0
Slope:	0.3099

Error Coefficients

Standard Error:	721000
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 410-153227/18	0.2	0.055456	10.0	1878059.0	0.277281	Y
2	IC 410-153227/17	0.5	0.133729	10.0	1875578.0	0.267459	Y
3	IC 410-153227/16	1.0	0.317589	10.0	1893045.0	0.317589	Y
4	IC 410-153227/15	2.0	0.654299	10.0	1914569.0	0.327149	Y
5	IC 410-153227/14	5.0	1.608176	10.0	1958598.0	0.321635	Y
6	ICIS 410-153227/13	10.0	3.283951	10.0	1956692.0	0.328395	Y
7	IC 410-153227/12	25.0	8.245916	10.0	1951930.0	0.329837	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

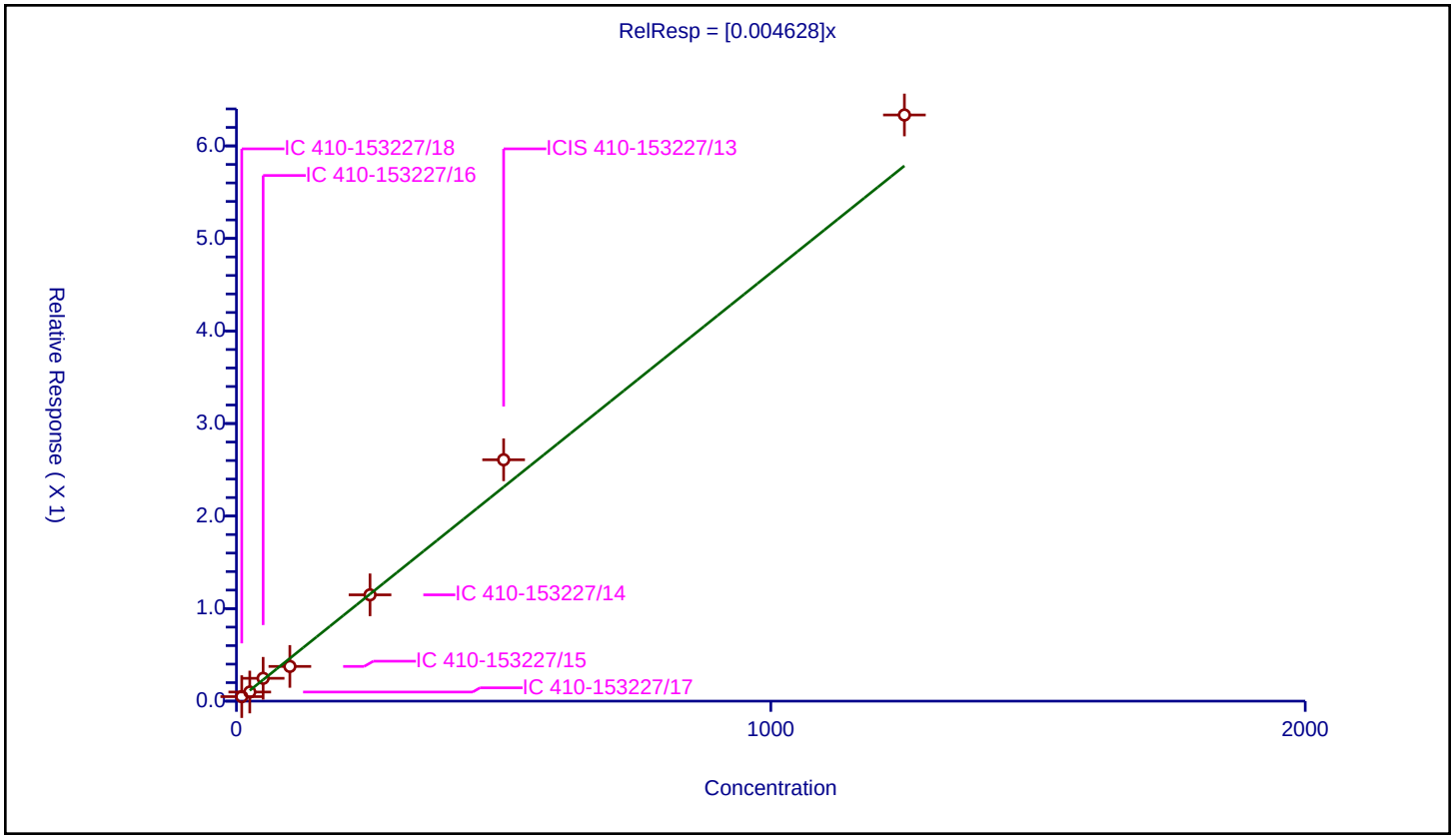
Curve Coefficients

Intercept:	0
Slope:	0.004628

Error Coefficients

Standard Error:	555000
Relative Standard Error:	12.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	10.0	0.0488	10.0	1878059.0	0.00488	Y
2	IC 410-153227/17	25.0	0.09861	10.0	1875578.0	0.003944	Y
3	IC 410-153227/16	50.0	0.246941	10.0	1893045.0	0.004939	Y
4	IC 410-153227/15	100.0	0.375077	10.0	1914569.0	0.003751	Y
5	IC 410-153227/14	250.0	1.148786	10.0	1958598.0	0.004595	Y
6	ICIS 410-153227/13	500.0	2.608407	10.0	1956692.0	0.005217	Y
7	IC 410-153227/12	1250.0	6.334244	10.0	1951930.0	0.005067	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

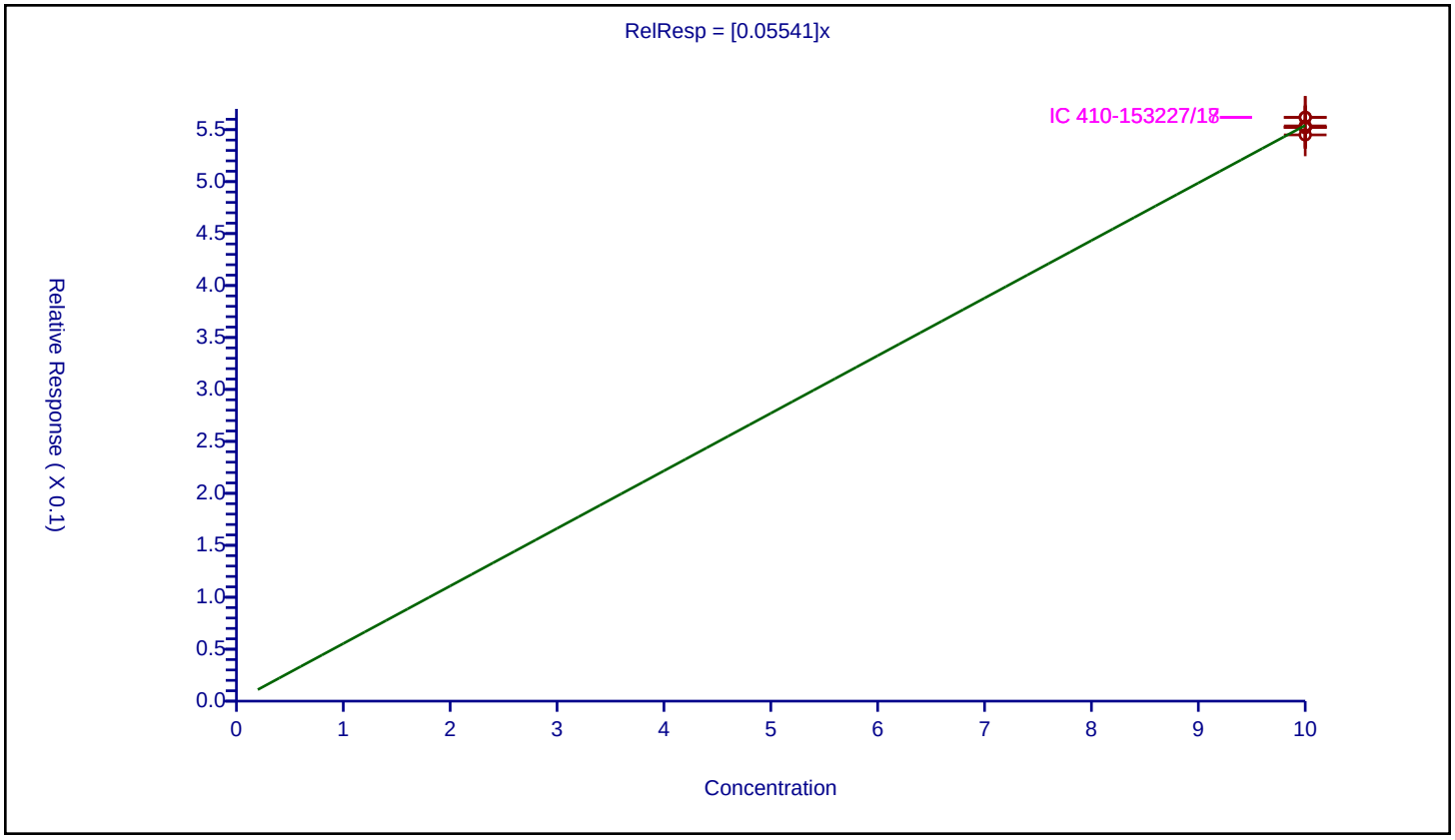
Curve Coefficients

Intercept:	0
Slope:	0.05541

Error Coefficients

Standard Error:	115000
Relative Standard Error:	1.1
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/14	10.0	0.544982	10.0	1958598.0	0.054498	Y
2	ICIS 410-153227/13	10.0	0.552289	10.0	1956692.0	0.055229	Y
3	IC 410-153227/12	10.0	0.553632	10.0	1951930.0	0.055363	Y
4	IC 410-153227/15	10.0	0.552312	10.0	1914569.0	0.055231	Y
5	IC 410-153227/16	10.0	0.552116	10.0	1893045.0	0.055212	Y
6	IC 410-153227/17	10.0	0.561827	10.0	1875578.0	0.056183	Y
7	IC 410-153227/18	10.0	0.561819	10.0	1878059.0	0.056182	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

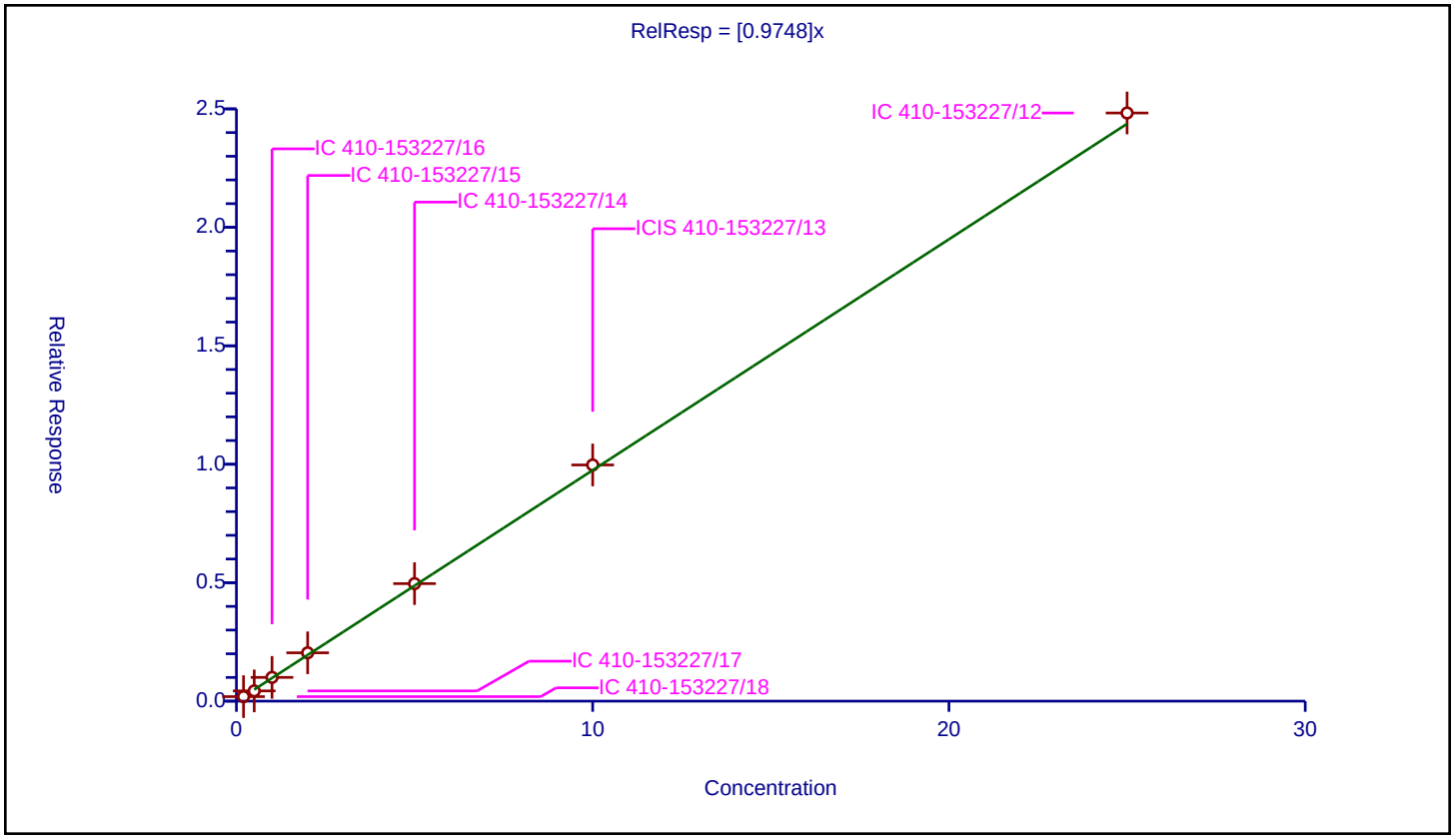
Curve Coefficients

Intercept:	0
Slope:	0.9748

Error Coefficients

Standard Error:	2180000
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 410-153227/18	0.2	0.190809	10.0	1878059.0	0.954044	Y
2	IC 410-153227/17	0.5	0.43208	10.0	1875578.0	0.86416	Y
3	IC 410-153227/16	1.0	1.002855	10.0	1893045.0	1.002855	Y
4	IC 410-153227/15	2.0	2.040412	10.0	1914569.0	1.020206	Y
5	IC 410-153227/14	5.0	4.961411	10.0	1958598.0	0.992282	Y
6	ICIS 410-153227/13	10.0	9.96973	10.0	1956692.0	0.996973	Y
7	IC 410-153227/12	25.0	24.82692	10.0	1951930.0	0.993077	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

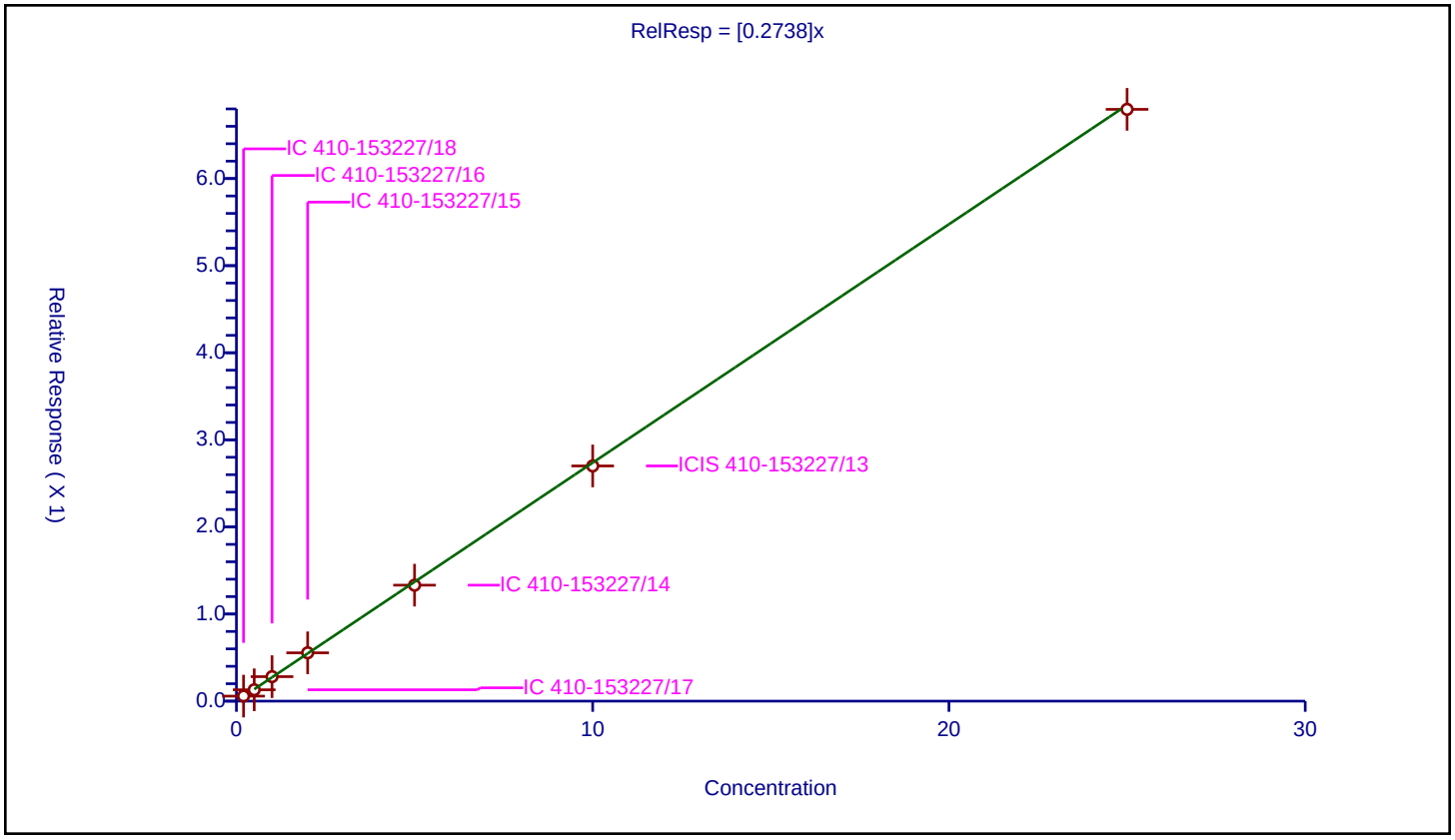
Curve Coefficients

Intercept:	0
Slope:	0.2738

Error Coefficients

Standard Error:	595000
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 410-153227/18	0.2	0.057703	10.0	1878059.0	0.288516	Y
2	IC 410-153227/17	0.5	0.13053	10.0	1875578.0	0.261061	Y
3	IC 410-153227/16	1.0	0.28115	10.0	1893045.0	0.28115	Y
4	IC 410-153227/15	2.0	0.554903	10.0	1914569.0	0.277451	Y
5	IC 410-153227/14	5.0	1.331468	10.0	1958598.0	0.266294	Y
6	ICIS 410-153227/13	10.0	2.700466	10.0	1956692.0	0.270047	Y
7	IC 410-153227/12	25.0	6.794813	10.0	1951930.0	0.271793	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

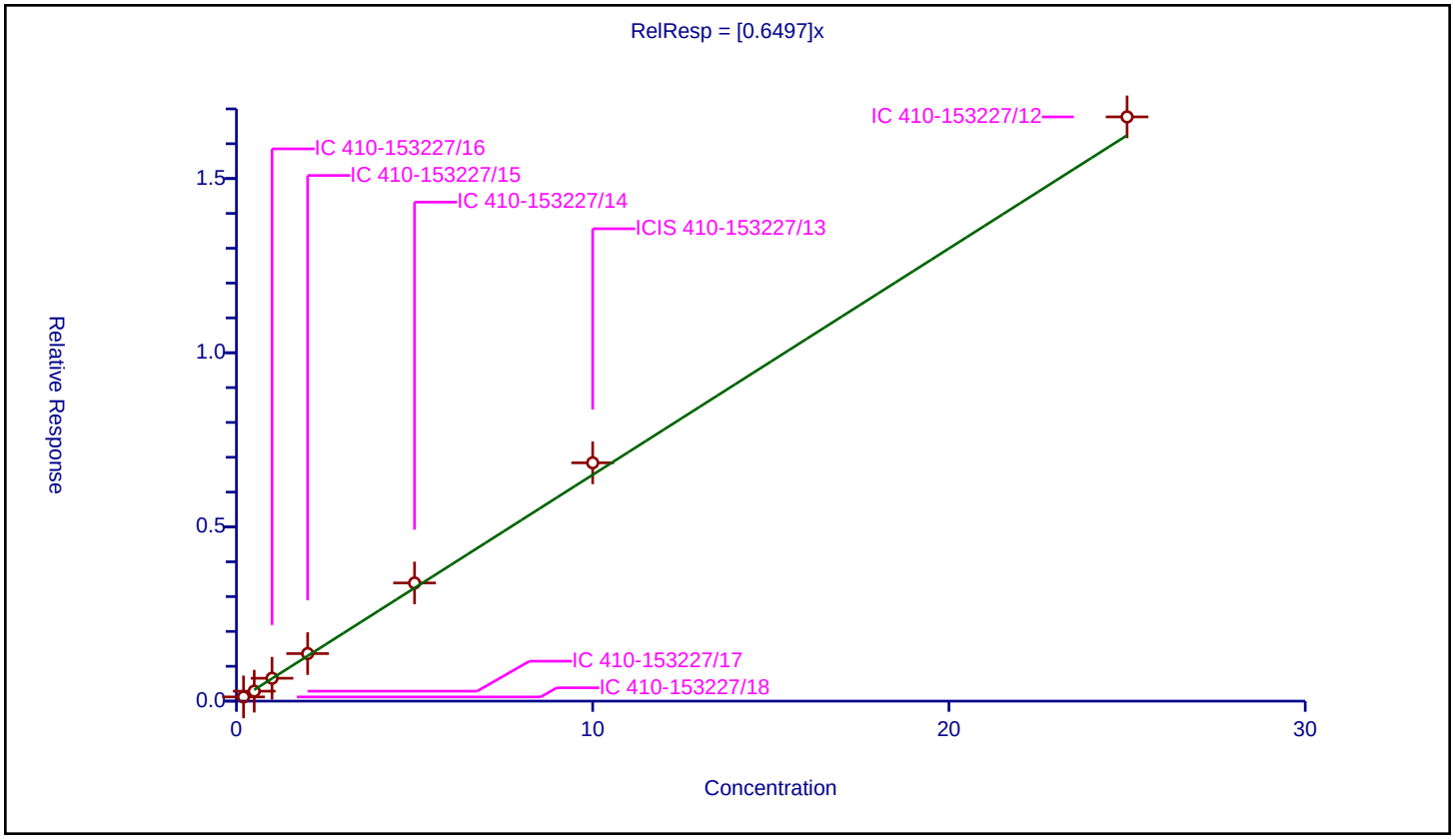
Curve Coefficients

Intercept:	0
Slope:	0.6497

Error Coefficients

Standard Error:	1470000
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 410-153227/18	0.2	0.120332	10.0	1878059.0	0.601658	Y
2	IC 410-153227/17	0.5	0.286386	10.0	1875578.0	0.572773	Y
3	IC 410-153227/16	1.0	0.657375	10.0	1893045.0	0.657375	Y
4	IC 410-153227/15	2.0	1.365195	10.0	1914569.0	0.682597	Y
5	IC 410-153227/14	5.0	3.391891	10.0	1958598.0	0.678378	Y
6	ICIS 410-153227/13	10.0	6.840877	10.0	1956692.0	0.684088	Y
7	IC 410-153227/12	25.0	16.770893	10.0	1951930.0	0.670836	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

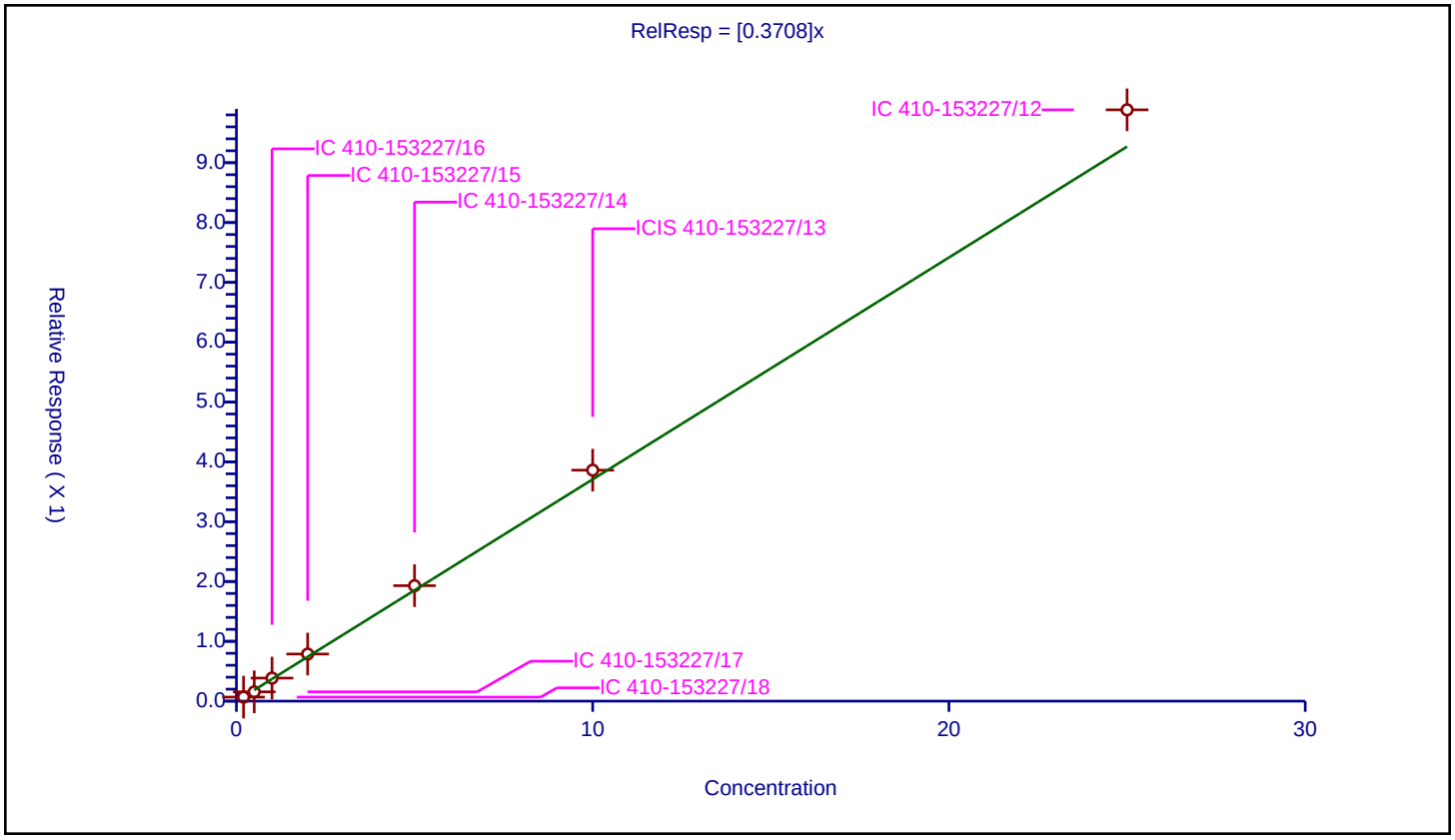
Curve Coefficients

Intercept:	0
Slope:	0.3708

Error Coefficients

Standard Error:	863000
Relative Standard Error:	8.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.067559	10.0	1878059.0	0.337796	Y
2	IC 410-153227/17	0.5	0.155568	10.0	1875578.0	0.311136	Y
3	IC 410-153227/16	1.0	0.385268	10.0	1893045.0	0.385268	Y
4	IC 410-153227/15	2.0	0.787451	10.0	1914569.0	0.393726	Y
5	IC 410-153227/14	5.0	1.930095	10.0	1958598.0	0.386019	Y
6	ICIS 410-153227/13	10.0	3.86095	10.0	1956692.0	0.386095	Y
7	IC 410-153227/12	25.0	9.884499	10.0	1951930.0	0.39538	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

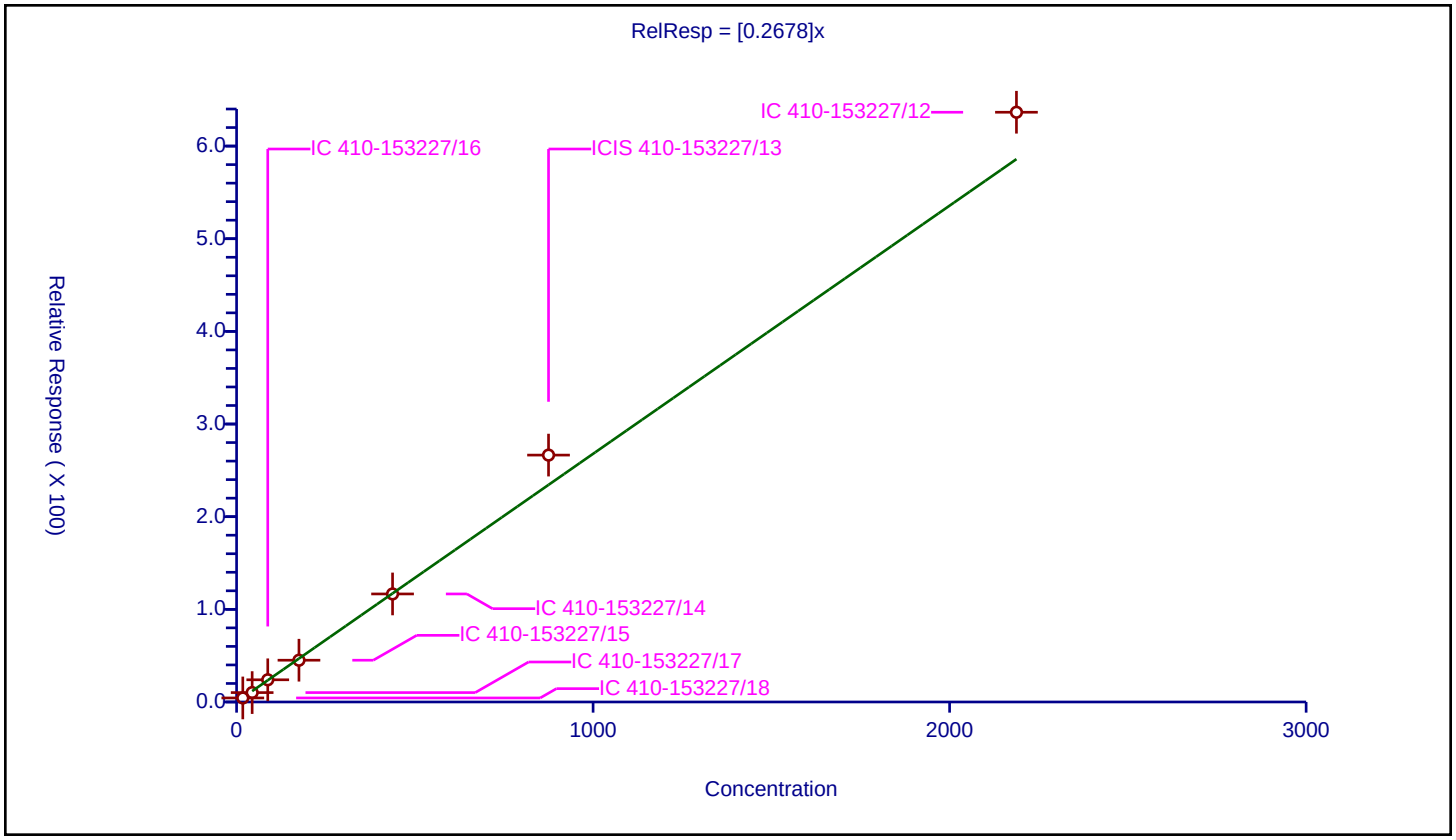
Curve Coefficients

Intercept:	0
Slope:	0.2678

Error Coefficients

Standard Error:	795000
Relative Standard Error:	9.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	17.5	4.363798	50.0	158566.0	0.24936	Y
2	IC 410-153227/17	43.75	10.156298	50.0	146579.0	0.232144	Y
3	IC 410-153227/16	87.5	23.95721	50.0	143773.0	0.273797	Y
4	IC 410-153227/15	175.0	45.076195	50.0	119562.0	0.257578	Y
5	IC 410-153227/14	437.5	116.600009	50.0	140518.0	0.266514	Y
6	ICIS 410-153227/13	875.0	266.465232	50.0	143636.0	0.304532	Y
7	IC 410-153227/12	2187.5	636.505916	50.0	137853.0	0.290974	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

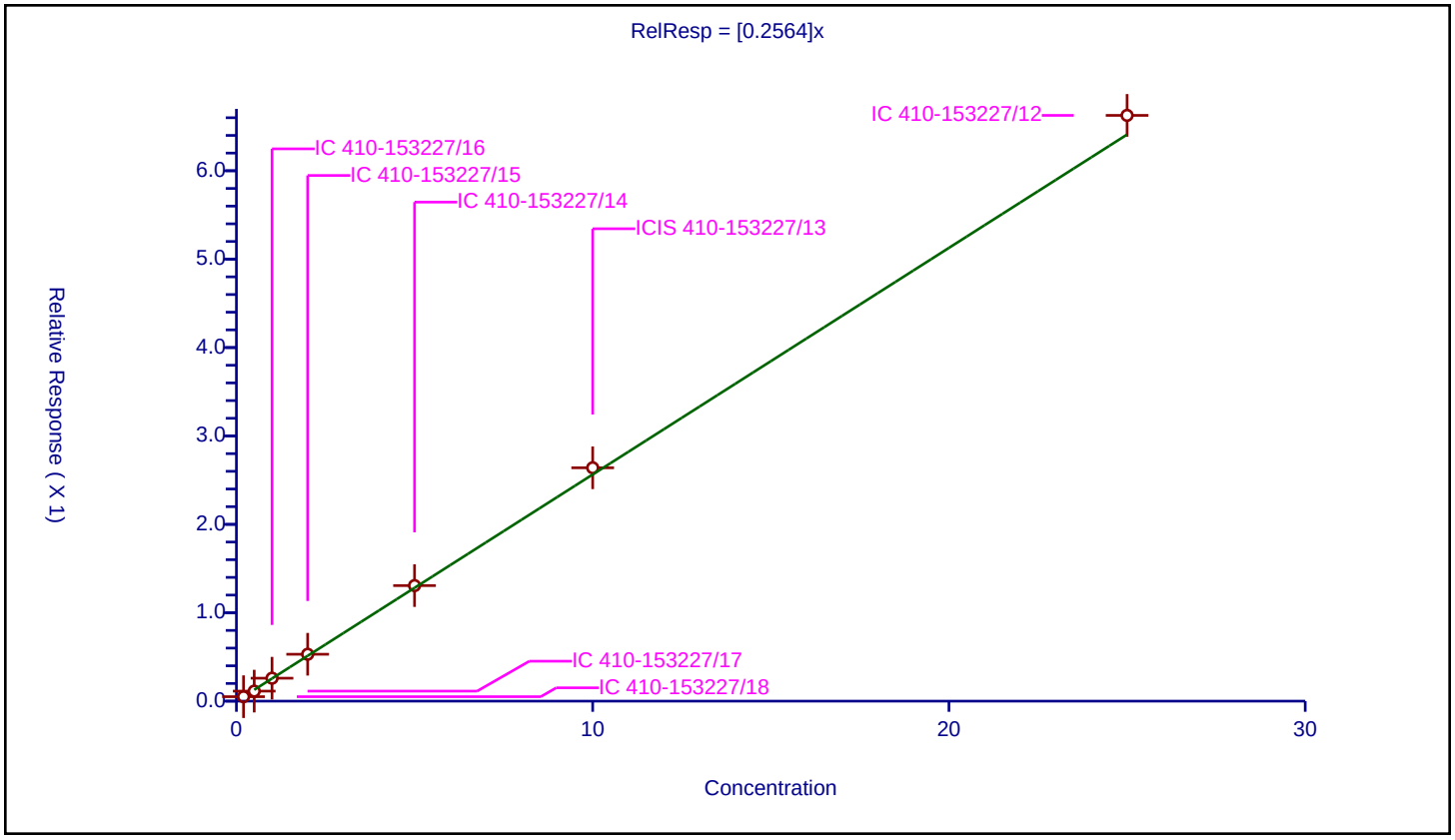
Curve Coefficients

Intercept:	0
Slope:	0.2564

Error Coefficients

Standard Error:	580000
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 410-153227/18	0.2	0.050446	10.0	1878059.0	0.252228	Y
2	IC 410-153227/17	0.5	0.113554	10.0	1875578.0	0.227109	Y
3	IC 410-153227/16	1.0	0.259619	10.0	1893045.0	0.259619	Y
4	IC 410-153227/15	2.0	0.530501	10.0	1914569.0	0.26525	Y
5	IC 410-153227/14	5.0	1.307129	10.0	1958598.0	0.261426	Y
6	ICIS 410-153227/13	10.0	2.639899	10.0	1956692.0	0.26399	Y
7	IC 410-153227/12	25.0	6.626626	10.0	1951930.0	0.265065	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

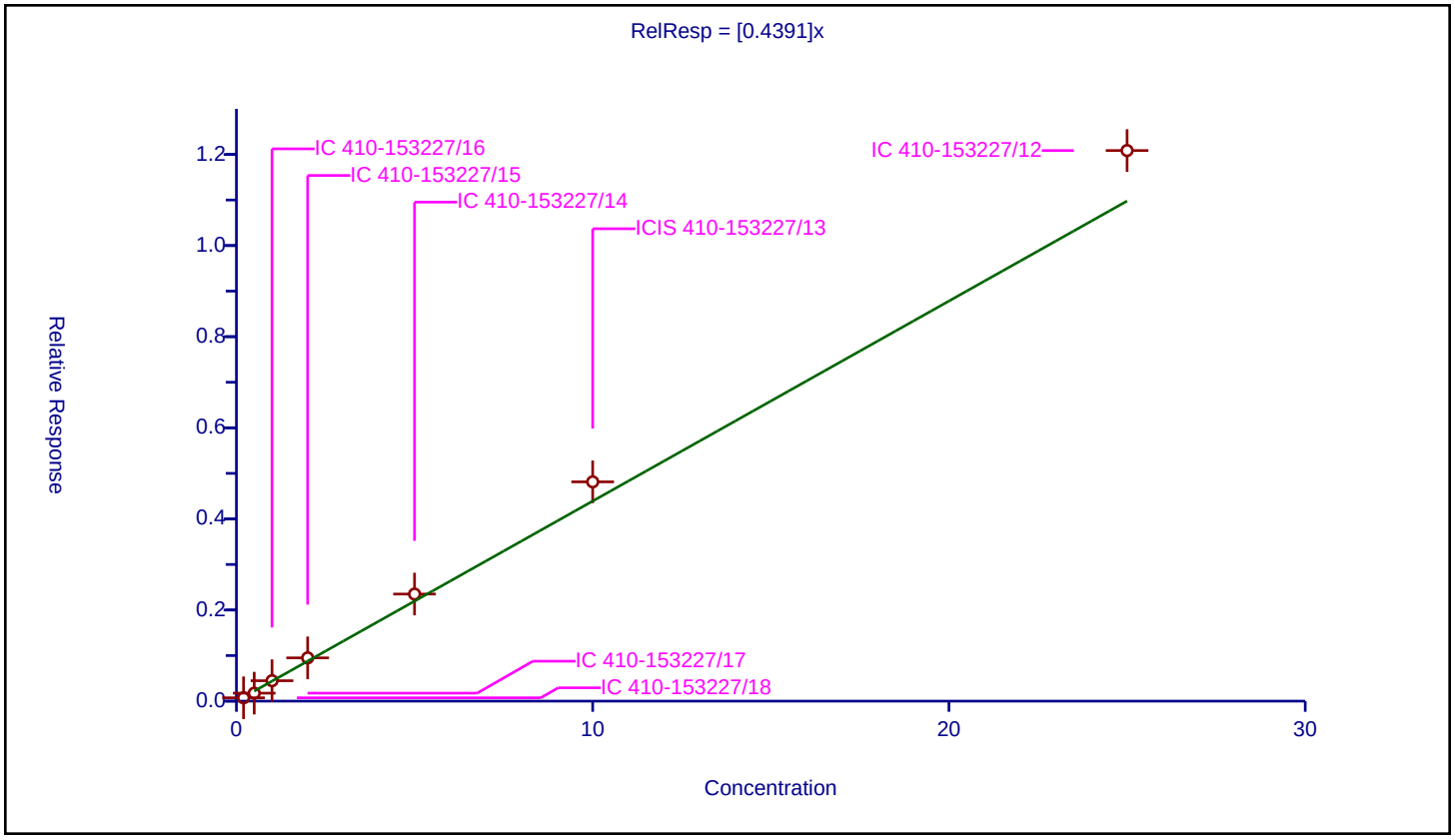
Curve Coefficients

Intercept:	0
Slope:	0.4391

Error Coefficients

Standard Error:	1060000
Relative Standard Error:	12.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.073193	10.0	1878059.0	0.365963	Y
2	IC 410-153227/17	0.5	0.175114	10.0	1875578.0	0.350228	Y
3	IC 410-153227/16	1.0	0.447845	10.0	1893045.0	0.447845	Y
4	IC 410-153227/15	2.0	0.949775	10.0	1914569.0	0.474888	Y
5	IC 410-153227/14	5.0	2.350513	10.0	1958598.0	0.470103	Y
6	ICIS 410-153227/13	10.0	4.813348	10.0	1956692.0	0.481335	Y
7	IC 410-153227/12	25.0	12.085859	10.0	1951930.0	0.483434	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

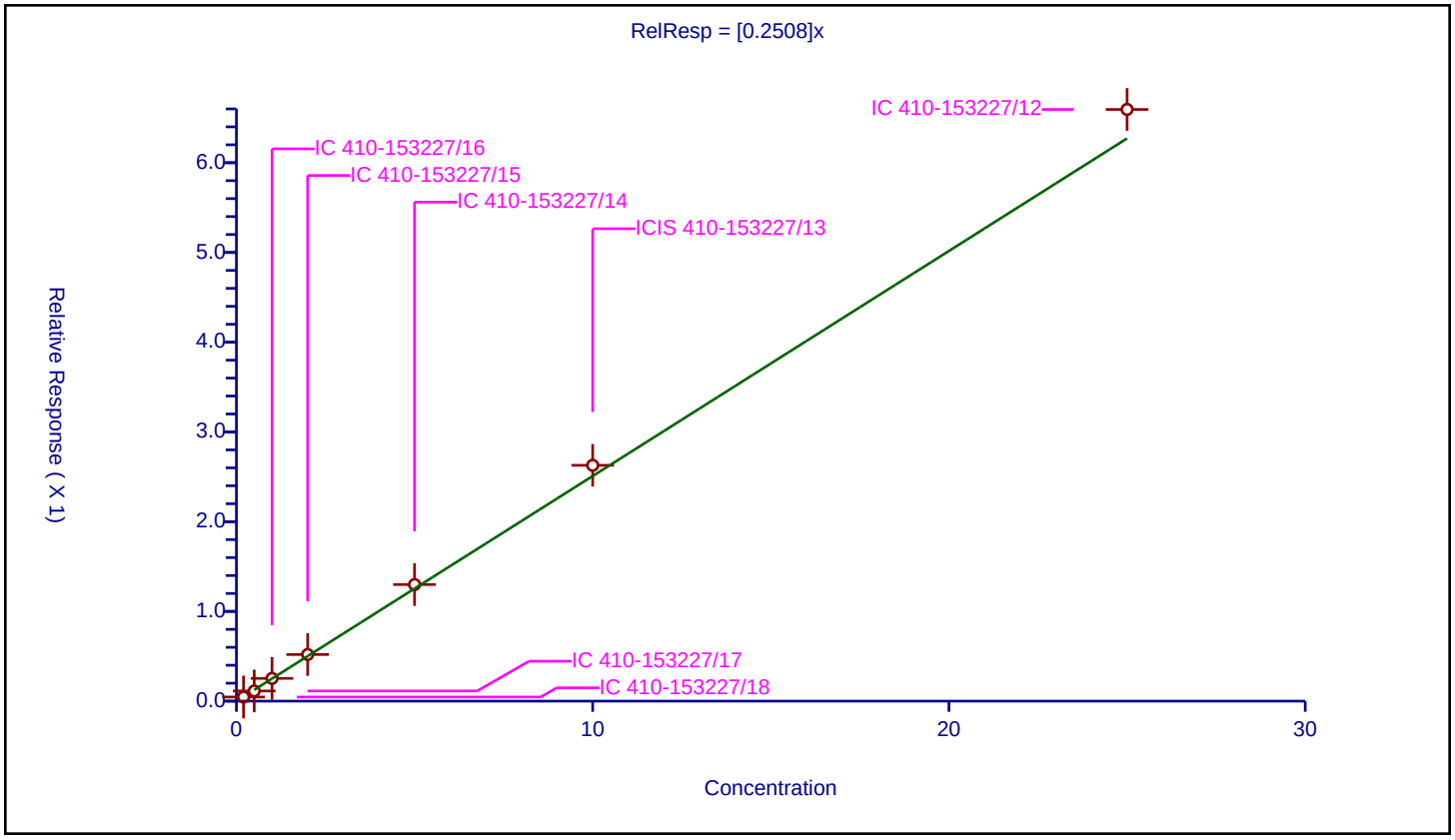
Curve Coefficients

Intercept:	0
Slope:	0.2508

Error Coefficients

Standard Error:	577000
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 410-153227/18	0.2	0.04592	10.0	1878059.0	0.229599	Y
2	IC 410-153227/17	0.5	0.113266	10.0	1875578.0	0.226533	Y
3	IC 410-153227/16	1.0	0.253539	10.0	1893045.0	0.253539	Y
4	IC 410-153227/15	2.0	0.519563	10.0	1914569.0	0.259782	Y
5	IC 410-153227/14	5.0	1.299281	10.0	1958598.0	0.259856	Y
6	ICIS 410-153227/13	10.0	2.628186	10.0	1956692.0	0.262819	Y
7	IC 410-153227/12	25.0	6.593679	10.0	1951930.0	0.263747	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

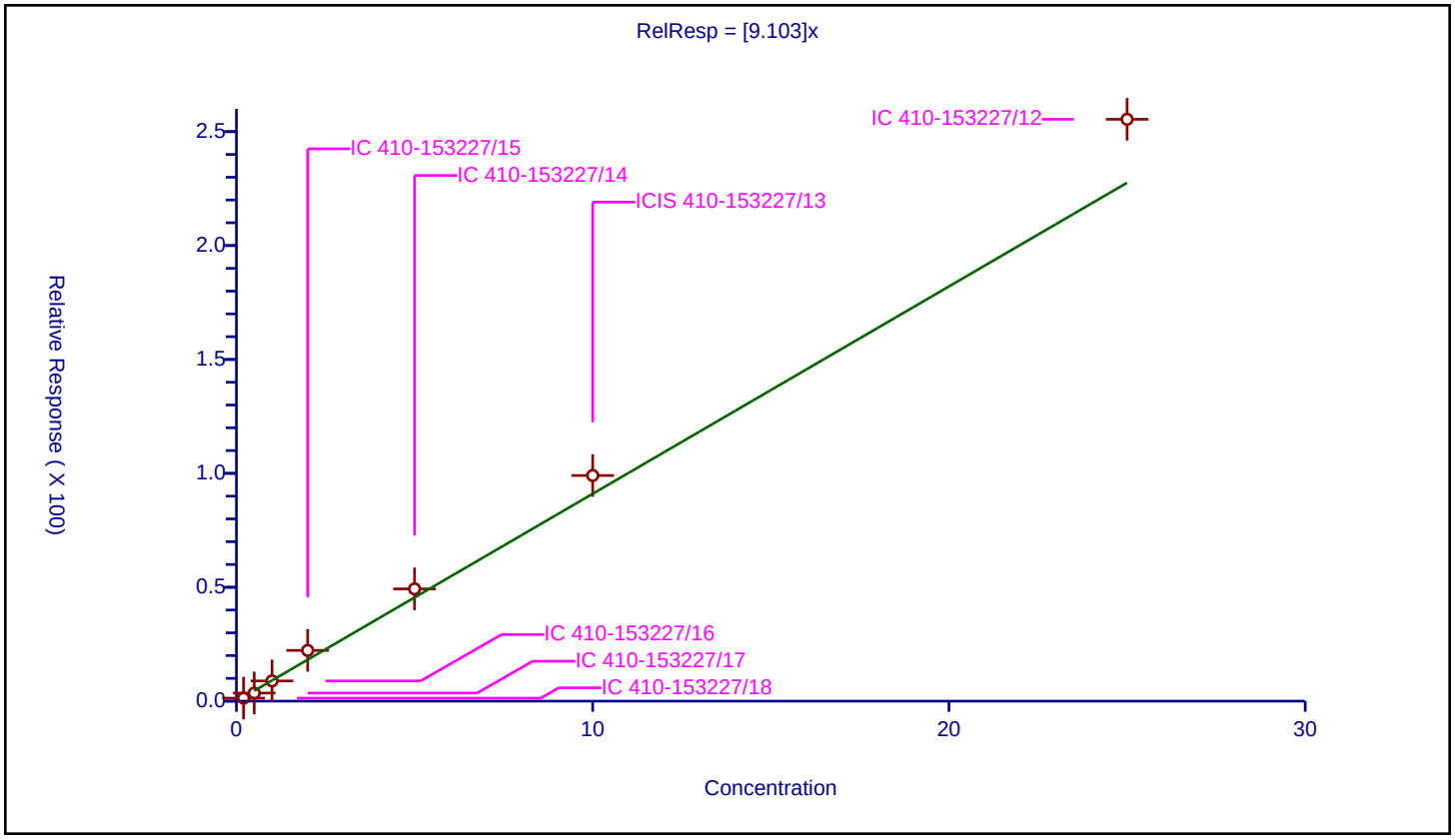
Curve Coefficients

Intercept:	0
Slope:	9.103

Error Coefficients

Standard Error:	316000
Relative Standard Error:	18.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.963

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	1.318694	50.0	158566.0	6.593469	Y
2	IC 410-153227/17	0.5	3.565995	50.0	146579.0	7.13199	Y
3	IC 410-153227/16	1.0	8.880318	50.0	143773.0	8.880318	Y
4	IC 410-153227/15	2.0	22.269617	50.0	119562.0	11.134809	Y
5	IC 410-153227/14	5.0	49.282654	50.0	140518.0	9.856531	Y
6	ICIS 410-153227/13	10.0	99.048289	50.0	143636.0	9.904829	Y
7	IC 410-153227/12	25.0	255.431148	50.0	137853.0	10.217246	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

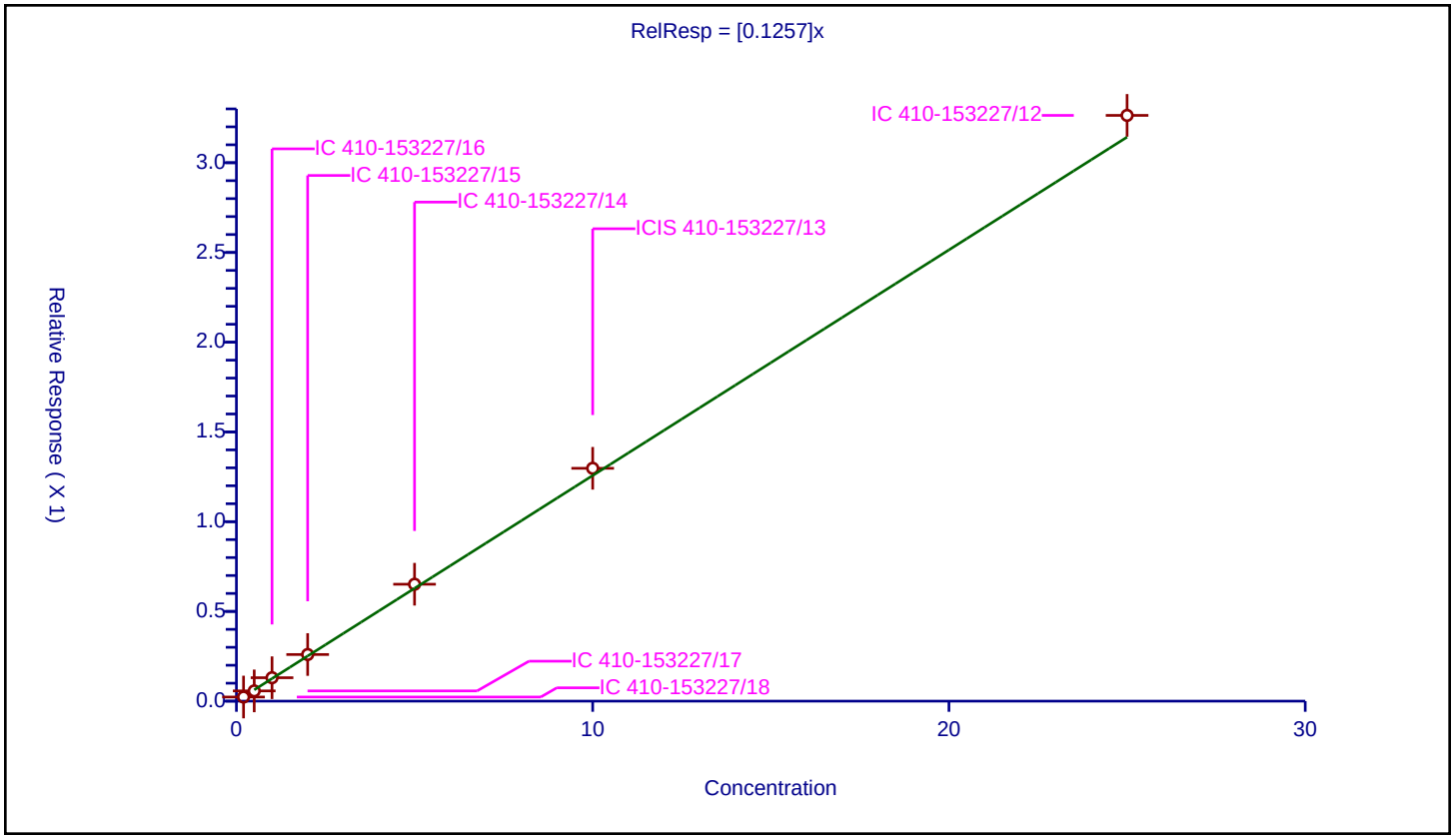
Curve Coefficients

Intercept:	0
Slope:	0.1257

Error Coefficients

Standard Error:	286000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.022986	10.0	1878059.0	0.114932	Y
2	IC 410-153227/17	0.5	0.057054	10.0	1875578.0	0.114109	Y
3	IC 410-153227/16	1.0	0.13052	10.0	1893045.0	0.13052	Y
4	IC 410-153227/15	2.0	0.25974	10.0	1914569.0	0.12987	Y
5	IC 410-153227/14	5.0	0.651456	10.0	1958598.0	0.130291	Y
6	ICIS 410-153227/13	10.0	1.297384	10.0	1956692.0	0.129738	Y
7	IC 410-153227/12	25.0	3.263713	10.0	1951930.0	0.130549	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

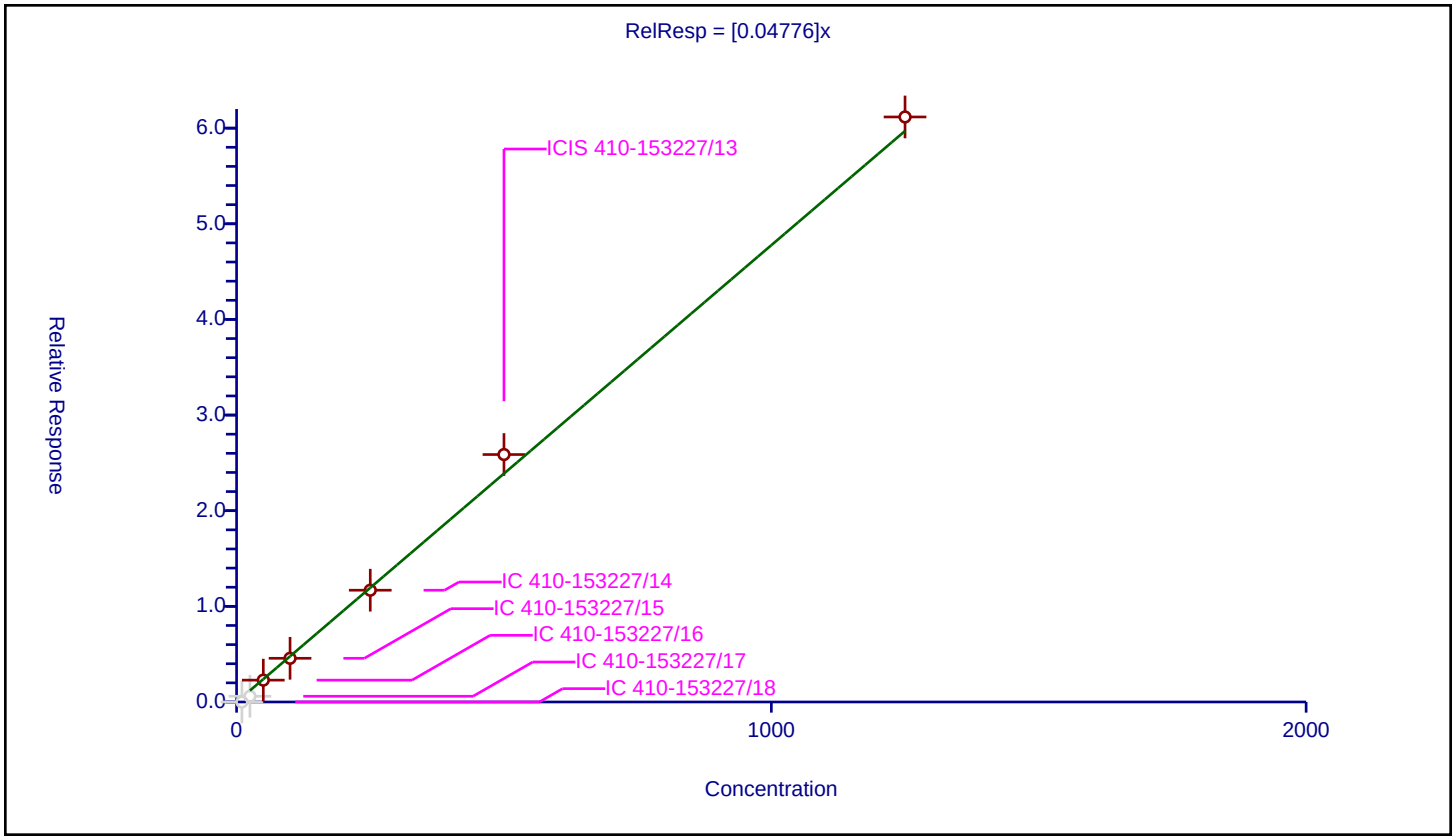
Curve Coefficients

Intercept:	0
Slope:	0.04776

Error Coefficients

Standard Error:	93800
Relative Standard Error:	5.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	10.0	0.0	50.0	158566.0	0.0	N
2	IC 410-153227/17	25.0	0.597971	50.0	146579.0	0.023919	N
3	IC 410-153227/16	50.0	2.285547	50.0	143773.0	0.045711	Y
4	IC 410-153227/15	100.0	4.567923	50.0	119562.0	0.045679	Y
5	IC 410-153227/14	250.0	11.686403	50.0	140518.0	0.046746	Y
6	ICIS 410-153227/13	500.0	25.874084	50.0	143636.0	0.051748	Y
7	IC 410-153227/12	1250.0	61.169144	50.0	137853.0	0.048935	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

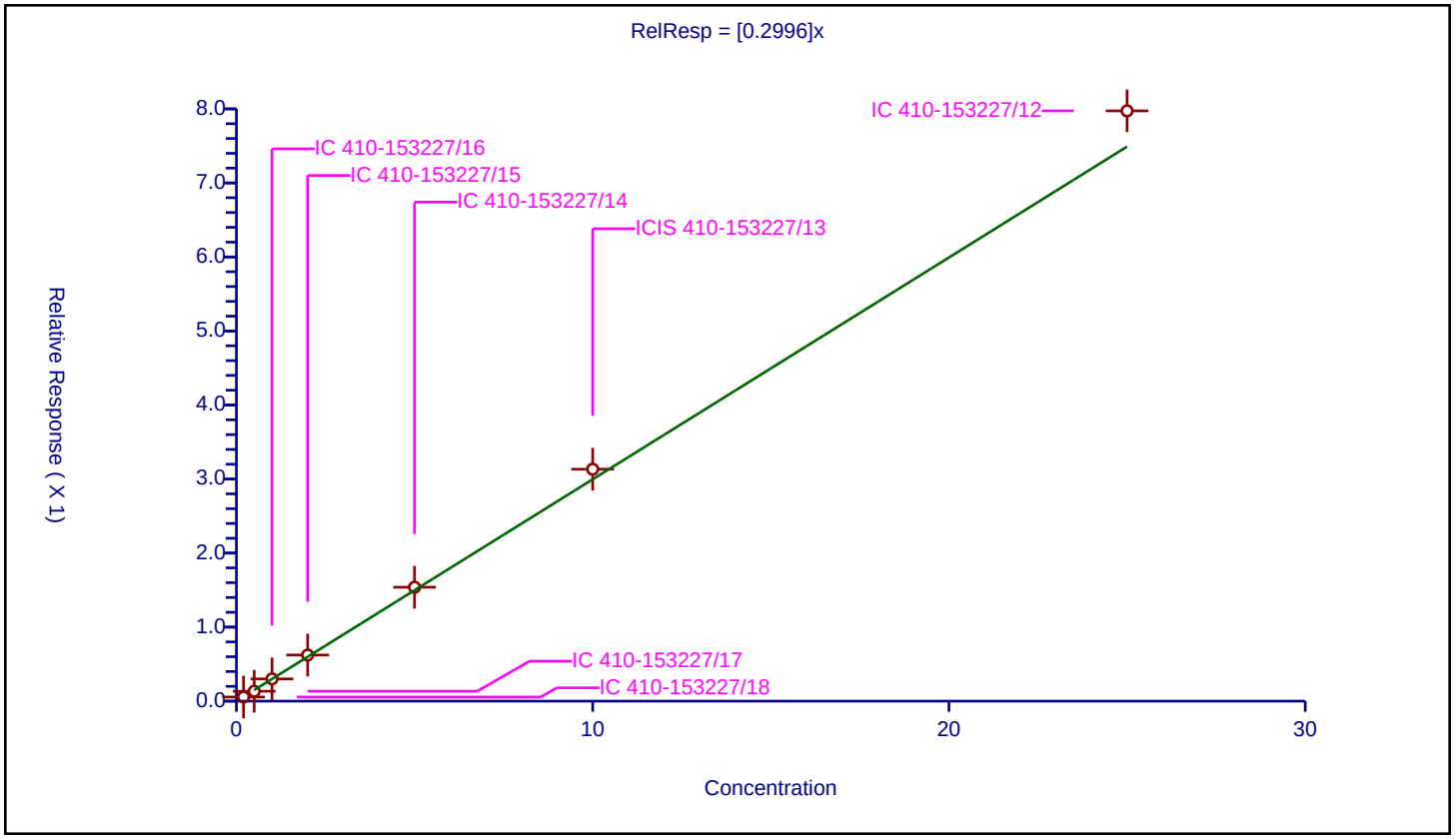
Curve Coefficients

Intercept:	0
Slope:	0.2996

Error Coefficients

Standard Error:	696000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.055589	10.0	1878059.0	0.277947	Y
2	IC 410-153227/17	0.5	0.133649	10.0	1875578.0	0.267299	Y
3	IC 410-153227/16	1.0	0.300711	10.0	1893045.0	0.300711	Y
4	IC 410-153227/15	2.0	0.622756	10.0	1914569.0	0.311378	Y
5	IC 410-153227/14	5.0	1.538779	10.0	1958598.0	0.307756	Y
6	ICIS 410-153227/13	10.0	3.133068	10.0	1956692.0	0.313307	Y
7	IC 410-153227/12	25.0	7.973155	10.0	1951930.0	0.318926	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

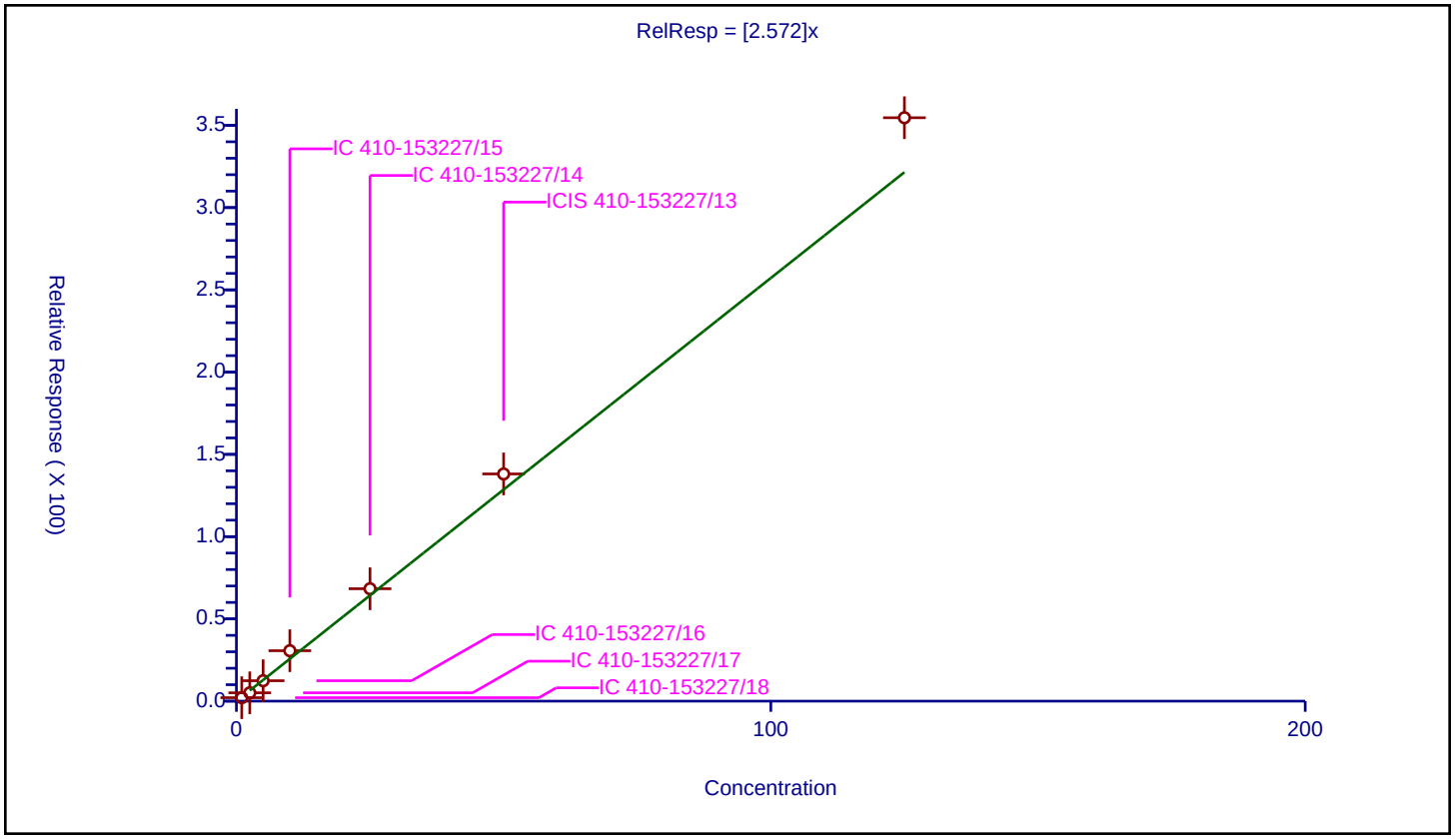
Curve Coefficients

Intercept:	0
Slope:	2.572

Error Coefficients

Standard Error:	439000
Relative Standard Error:	15.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	1.0	2.092819	50.0	158566.0	2.092819	Y
2	IC 410-153227/17	2.5	5.082242	50.0	146579.0	2.032897	Y
3	IC 410-153227/16	5.0	12.40219	50.0	143773.0	2.480438	Y
4	IC 410-153227/15	10.0	30.655643	50.0	119562.0	3.065564	Y
5	IC 410-153227/14	25.0	68.322208	50.0	140518.0	2.732888	Y
6	ICIS 410-153227/13	50.0	138.104305	50.0	143636.0	2.762086	Y
7	IC 410-153227/12	125.0	354.632834	50.0	137853.0	2.837063	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

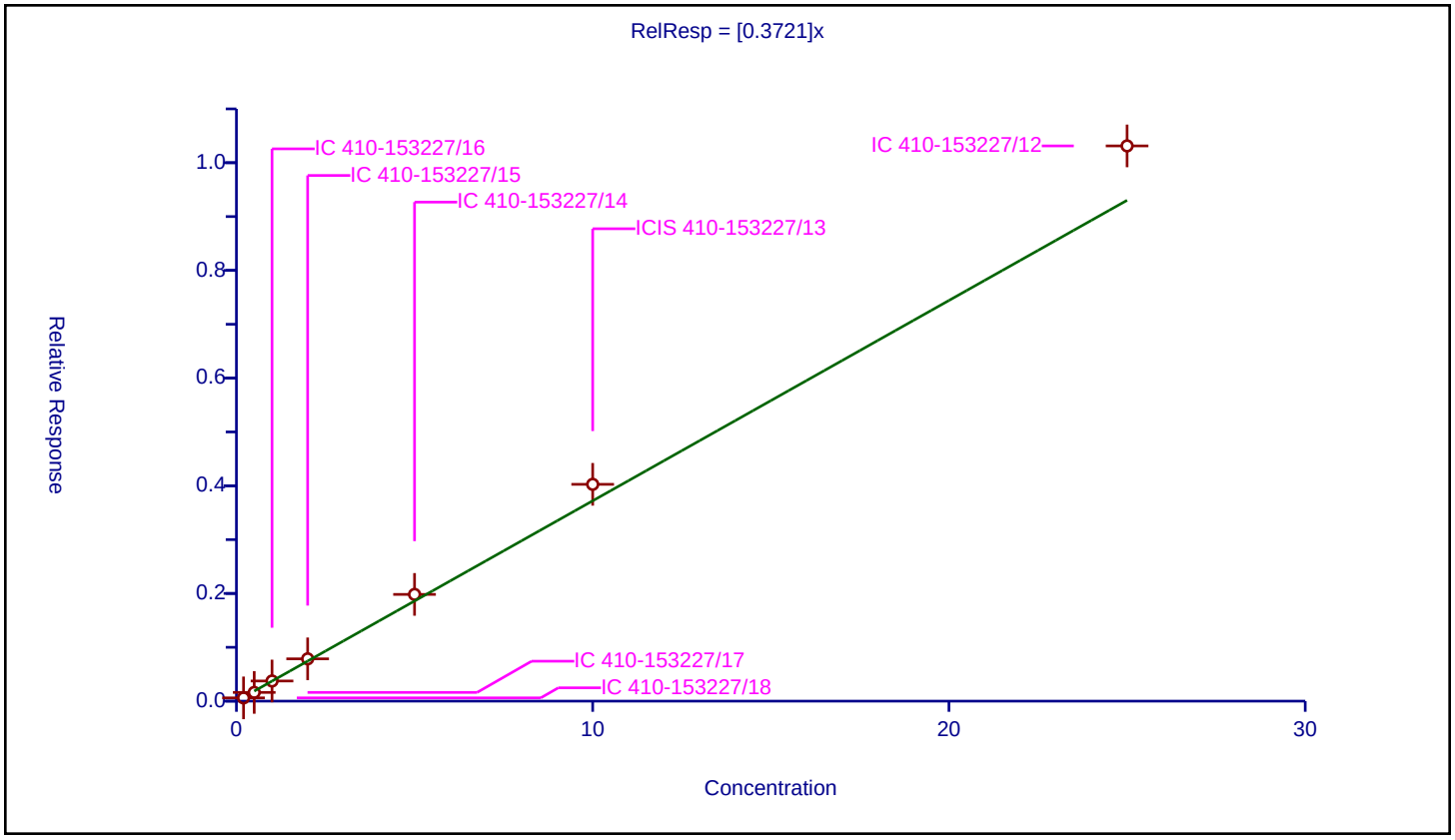
Curve Coefficients

Intercept:	0
Slope:	0.3721

Error Coefficients

Standard Error:	899000
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 410-153227/18	0.2	0.060397	10.0	1878059.0	0.301987	Y
2	IC 410-153227/17	0.5	0.162035	10.0	1875578.0	0.324071	Y
3	IC 410-153227/16	1.0	0.374038	10.0	1893045.0	0.374038	Y
4	IC 410-153227/15	2.0	0.785623	10.0	1914569.0	0.392812	Y
5	IC 410-153227/14	5.0	1.982561	10.0	1958598.0	0.396512	Y
6	ICIS 410-153227/13	10.0	4.026817	10.0	1956692.0	0.402682	Y
7	IC 410-153227/12	25.0	10.312424	10.0	1951930.0	0.412497	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

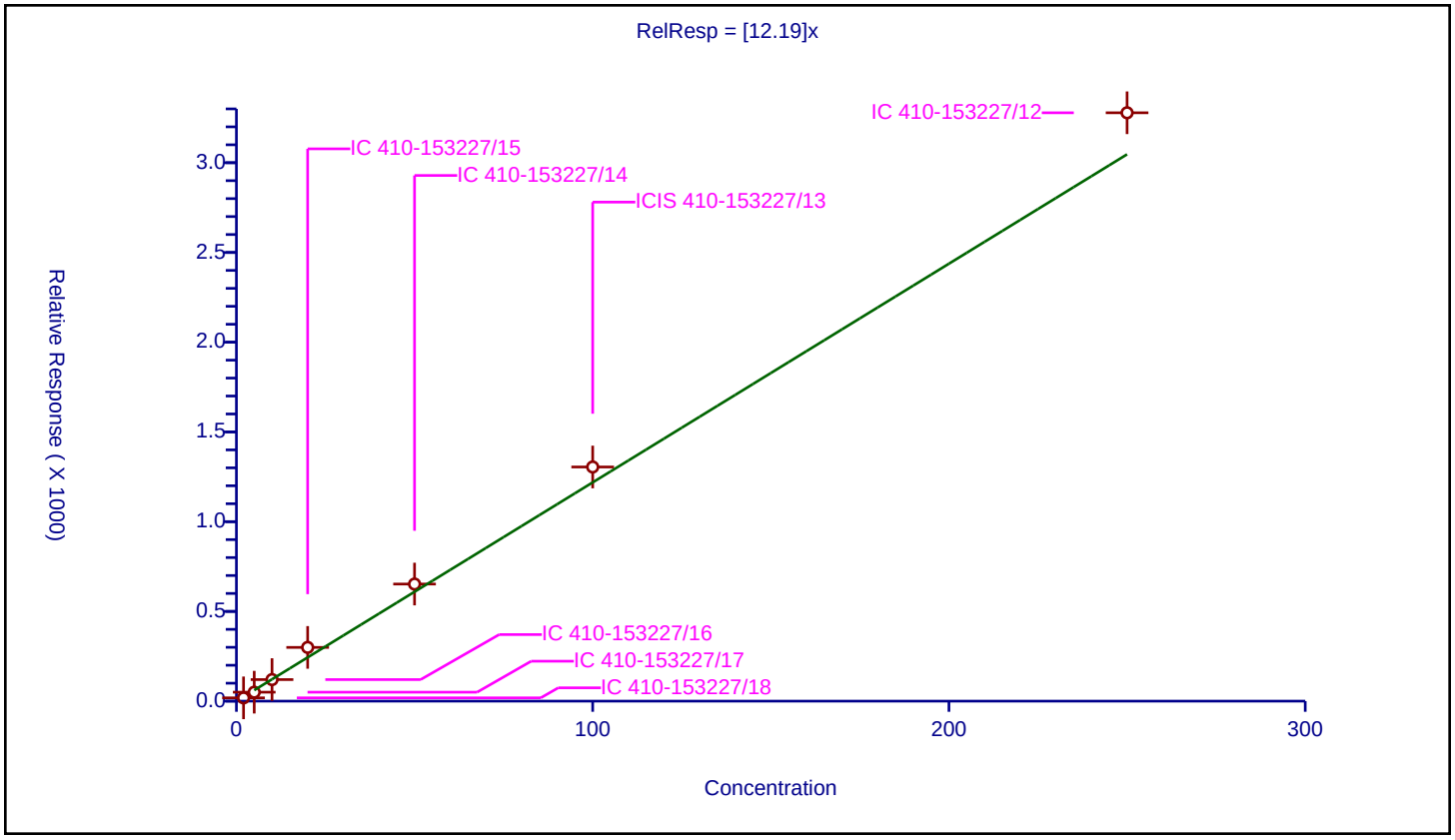
Curve Coefficients

Intercept:	0
Slope:	12.19

Error Coefficients

Standard Error:	4080000
Relative Standard Error:	16.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	2.0	18.283239	50.0	158566.0	9.141619	Y
2	IC 410-153227/17	5.0	49.914722	50.0	146579.0	9.982944	Y
3	IC 410-153227/16	10.0	120.090351	50.0	143773.0	12.009035	Y
4	IC 410-153227/15	20.0	299.345946	50.0	119562.0	14.967297	Y
5	IC 410-153227/14	50.0	652.423177	50.0	140518.0	13.048464	Y
6	ICIS 410-153227/13	100.0	1304.696594	50.0	143636.0	13.046966	Y
7	IC 410-153227/12	250.0	3278.264891	50.0	137853.0	13.11306	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

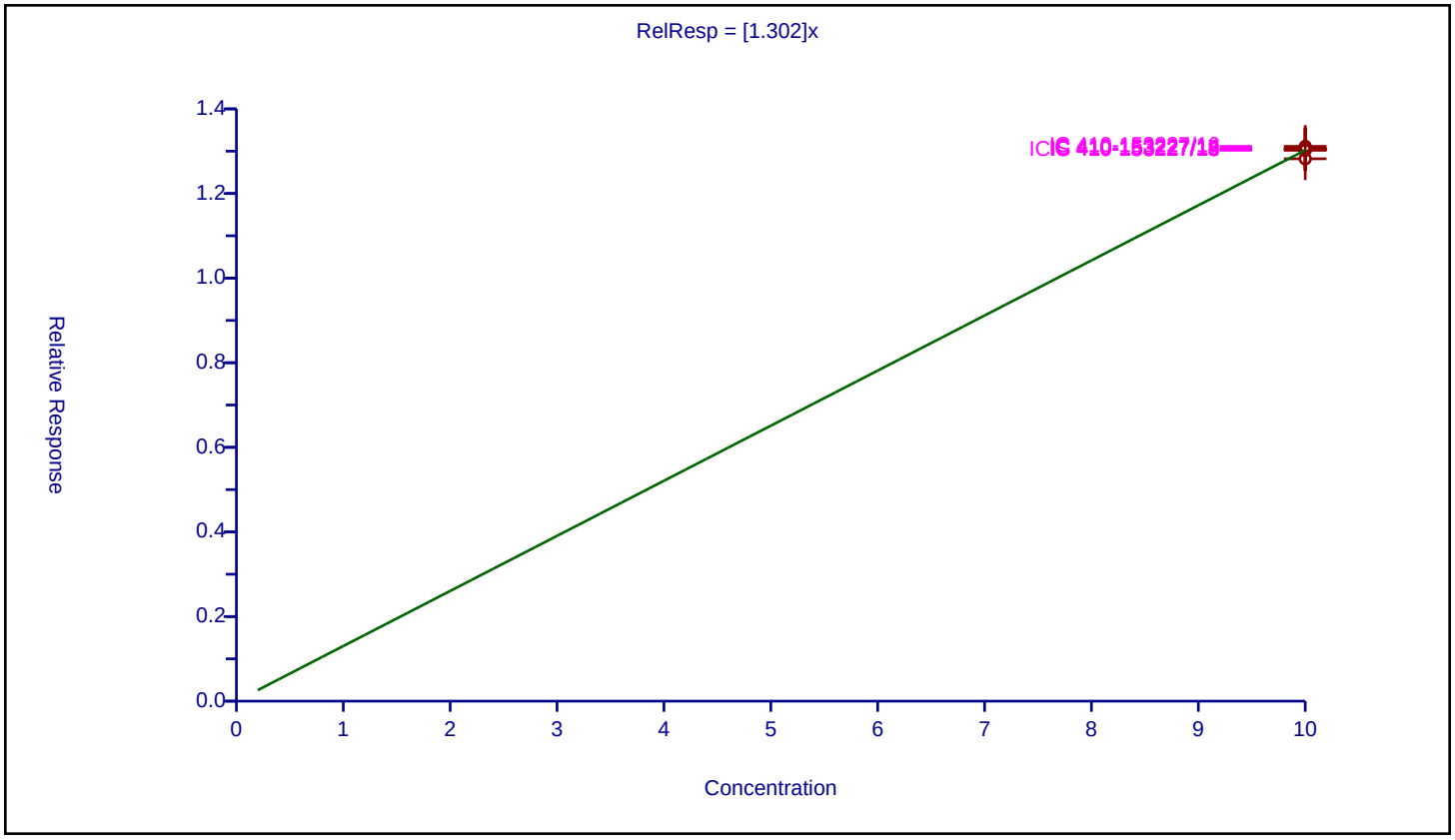
Curve Coefficients

Intercept:	0
Slope:	1.302

Error Coefficients

Standard Error:	2120000
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	ICIS 410-153227/13	10.0	13.022604	10.0	1539325.0	1.30226	Y
2	IC 410-153227/12	10.0	12.819987	10.0	1556461.0	1.281999	Y
3	IC 410-153227/14	10.0	13.067322	10.0	1534420.0	1.306732	Y
4	IC 410-153227/15	10.0	13.050707	10.0	1500688.0	1.305071	Y
5	IC 410-153227/16	10.0	13.113639	10.0	1480101.0	1.311364	Y
6	IC 410-153227/17	10.0	13.047266	10.0	1470938.0	1.304727	Y
7	IC 410-153227/18	10.0	13.033408	10.0	1471101.0	1.303341	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

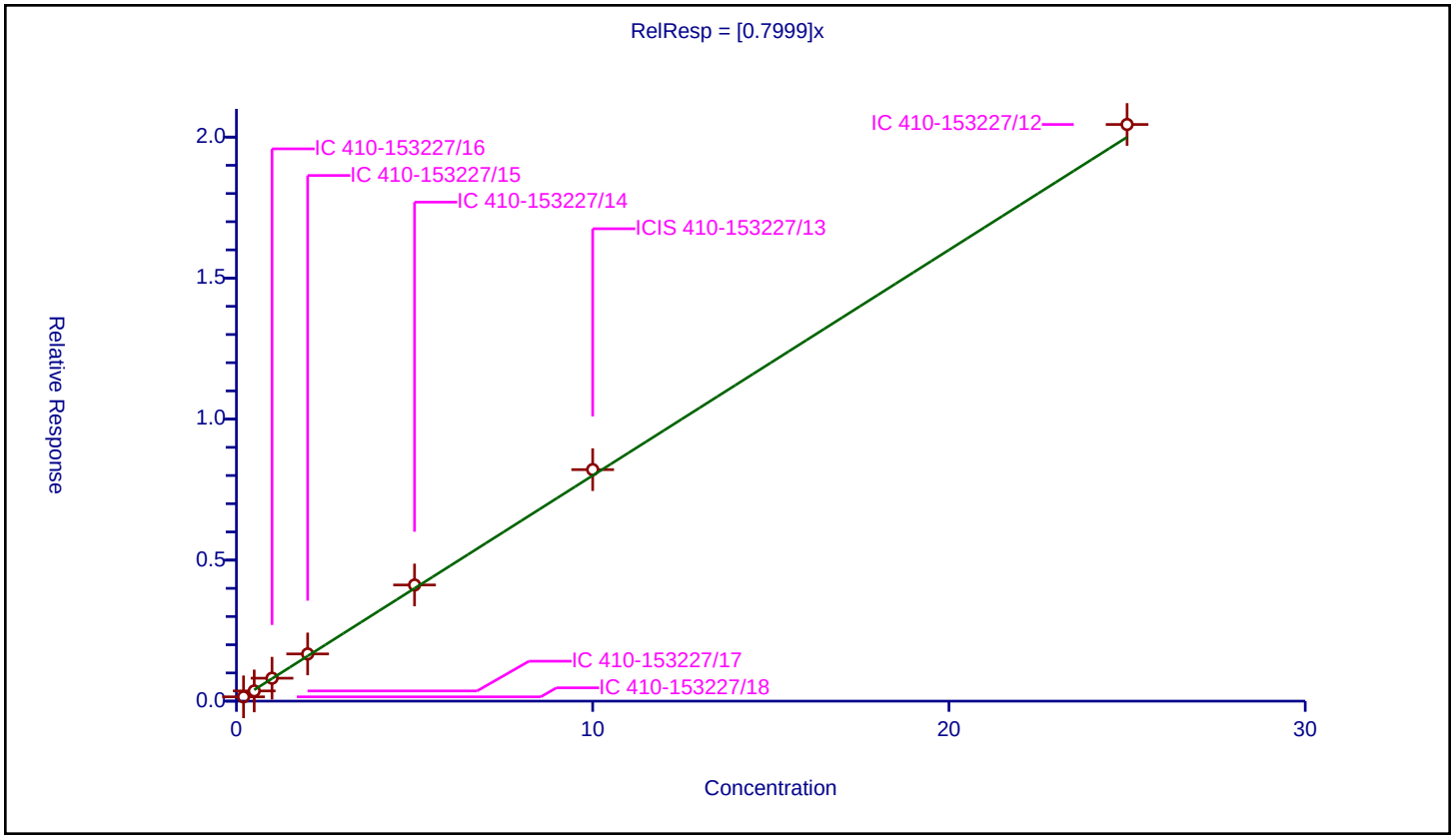
Curve Coefficients

Intercept:	0
Slope:	0.7999

Error Coefficients

Standard Error:	1430000
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 410-153227/18	0.2	0.15245	10.0	1471101.0	0.762252	Y
2	IC 410-153227/17	0.5	0.362347	10.0	1470938.0	0.724694	Y
3	IC 410-153227/16	1.0	0.813167	10.0	1480101.0	0.813167	Y
4	IC 410-153227/15	2.0	1.673619	10.0	1500688.0	0.83681	Y
5	IC 410-153227/14	5.0	4.11925	10.0	1534420.0	0.82385	Y
6	ICIS 410-153227/13	10.0	8.209105	10.0	1539325.0	0.82091	Y
7	IC 410-153227/12	25.0	20.44747	10.0	1556461.0	0.817899	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

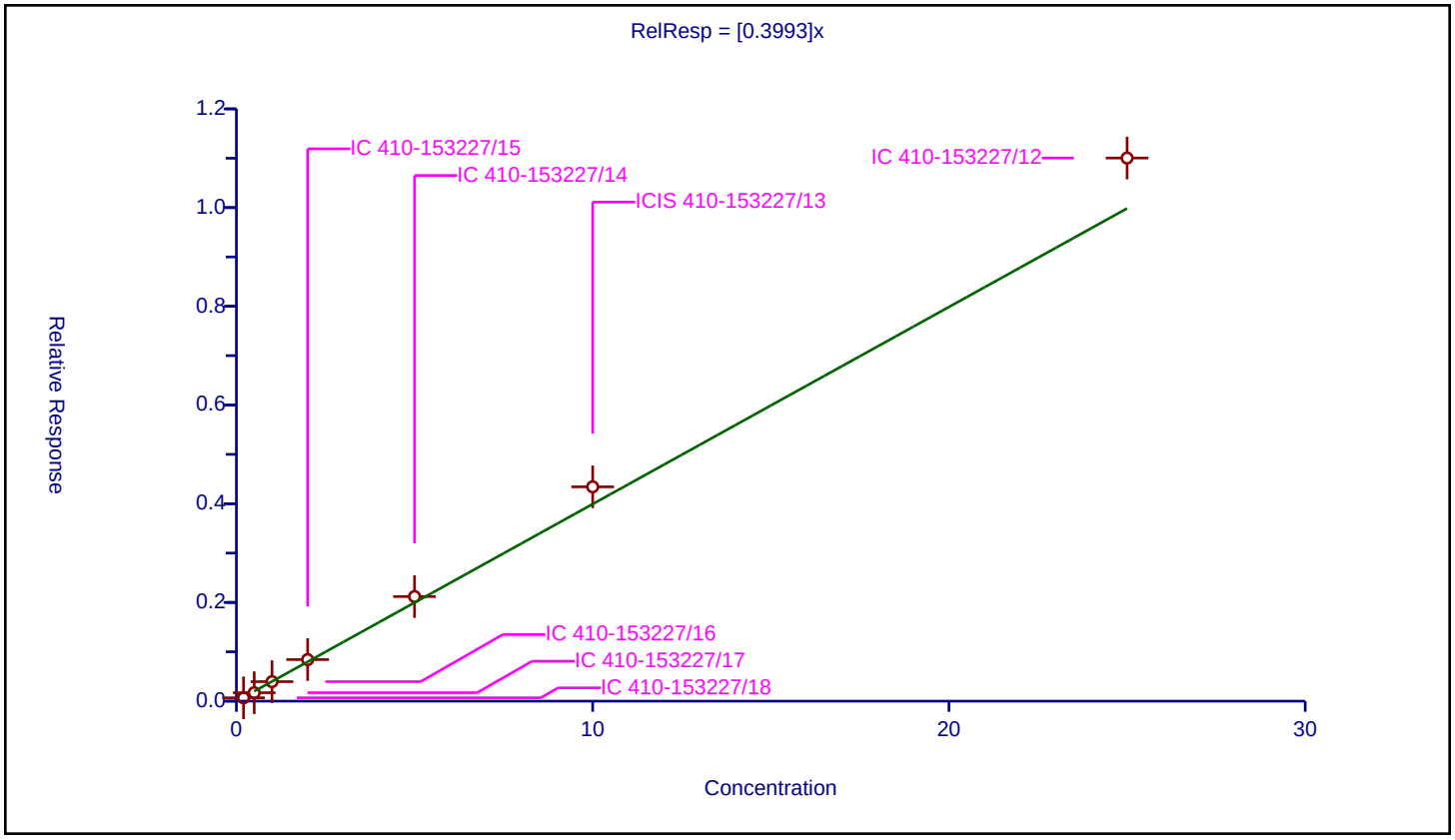
Curve Coefficients

Intercept:	0
Slope:	0.3993

Error Coefficients

Standard Error:	764000
Relative Standard Error:	10.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.067956	10.0	1471101.0	0.33978	Y
2	IC 410-153227/17	0.5	0.170748	10.0	1470938.0	0.341496	Y
3	IC 410-153227/16	1.0	0.394885	10.0	1480101.0	0.394885	Y
4	IC 410-153227/15	2.0	0.841861	10.0	1500688.0	0.42093	Y
5	IC 410-153227/14	5.0	2.118872	10.0	1534420.0	0.423774	Y
6	ICIS 410-153227/13	10.0	4.342234	10.0	1539325.0	0.434223	Y
7	IC 410-153227/12	25.0	11.004471	10.0	1556461.0	0.440179	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

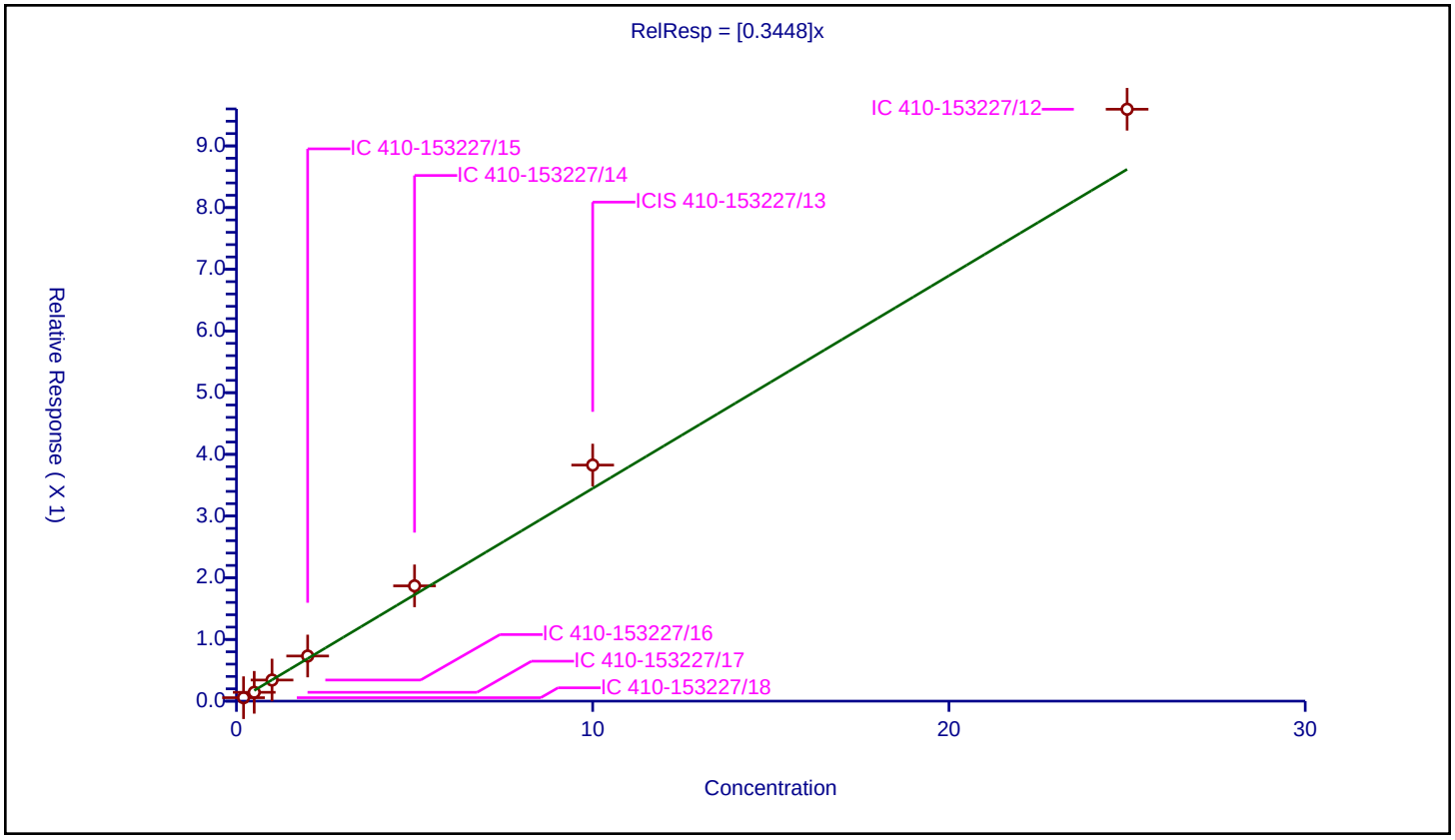
Curve Coefficients

Intercept:	0
Slope:	0.3448

Error Coefficients

Standard Error:	668000
Relative Standard Error:	12.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.200009	0.055815	10.0	1471101.0	0.279064	Y
2	IC 410-153227/17	0.500022	0.143296	10.0	1470938.0	0.28658	Y
3	IC 410-153227/16	1.000044	0.34224	10.0	1480101.0	0.342225	Y
4	IC 410-153227/15	2.000088	0.731491	10.0	1500688.0	0.36573	Y
5	IC 410-153227/14	5.000219	1.868524	10.0	1534420.0	0.373688	Y
6	ICIS 410-153227/13	10.000438	3.826781	10.0	1539325.0	0.382661	Y
7	IC 410-153227/12	25.001094	9.594188	10.0	1556461.0	0.383751	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

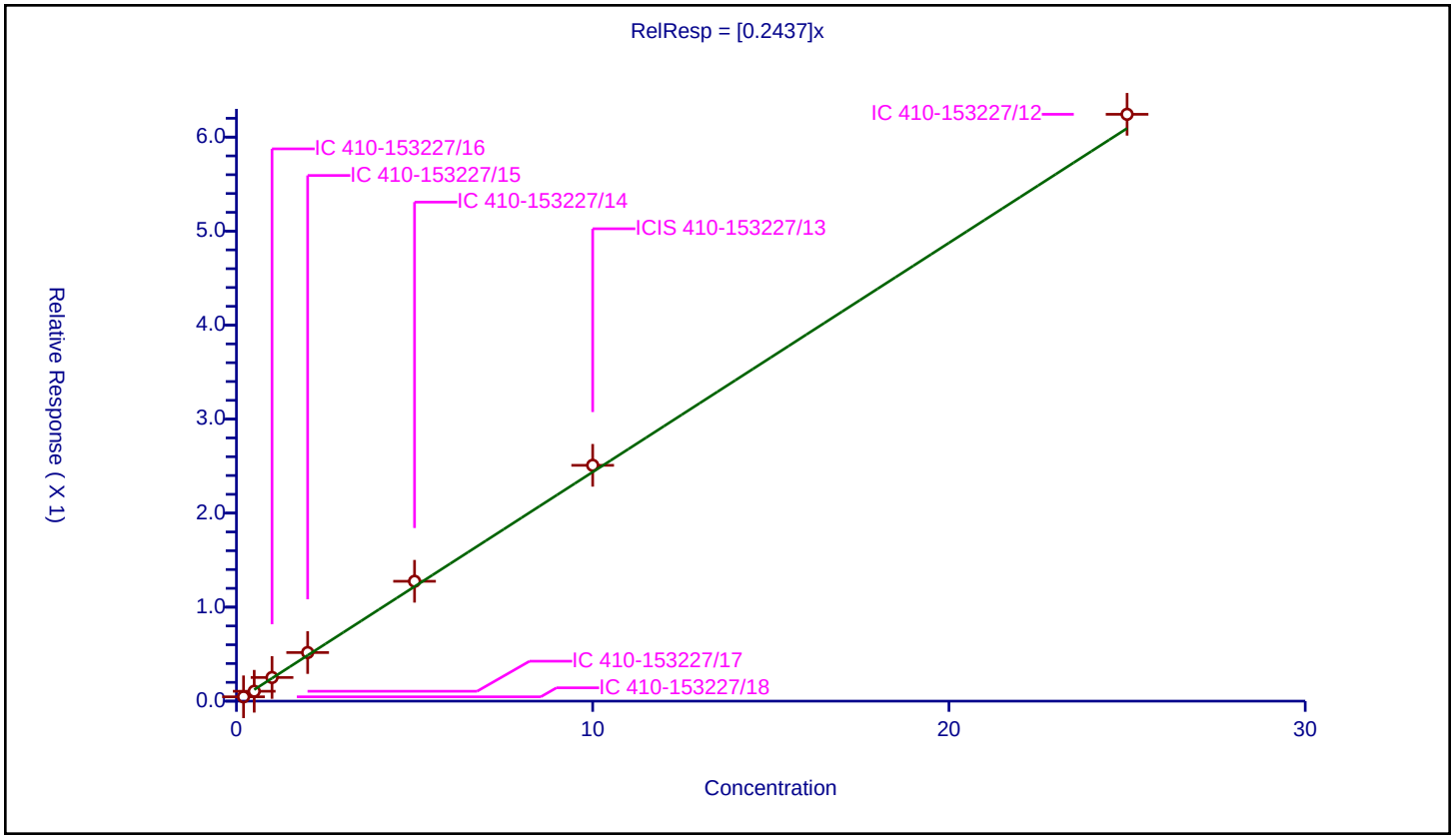
Curve Coefficients

Intercept:	0
Slope:	0.2437

Error Coefficients

Standard Error:	436000
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 410-153227/18	0.2	0.045911	10.0	1471101.0	0.229556	Y
2	IC 410-153227/17	0.5	0.105389	10.0	1470938.0	0.210777	Y
3	IC 410-153227/16	1.0	0.251794	10.0	1480101.0	0.251794	Y
4	IC 410-153227/15	2.0	0.516816	10.0	1500688.0	0.258408	Y
5	IC 410-153227/14	5.0	1.274951	10.0	1534420.0	0.25499	Y
6	ICIS 410-153227/13	10.0	2.508619	10.0	1539325.0	0.250862	Y
7	IC 410-153227/12	25.0	6.242424	10.0	1556461.0	0.249697	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

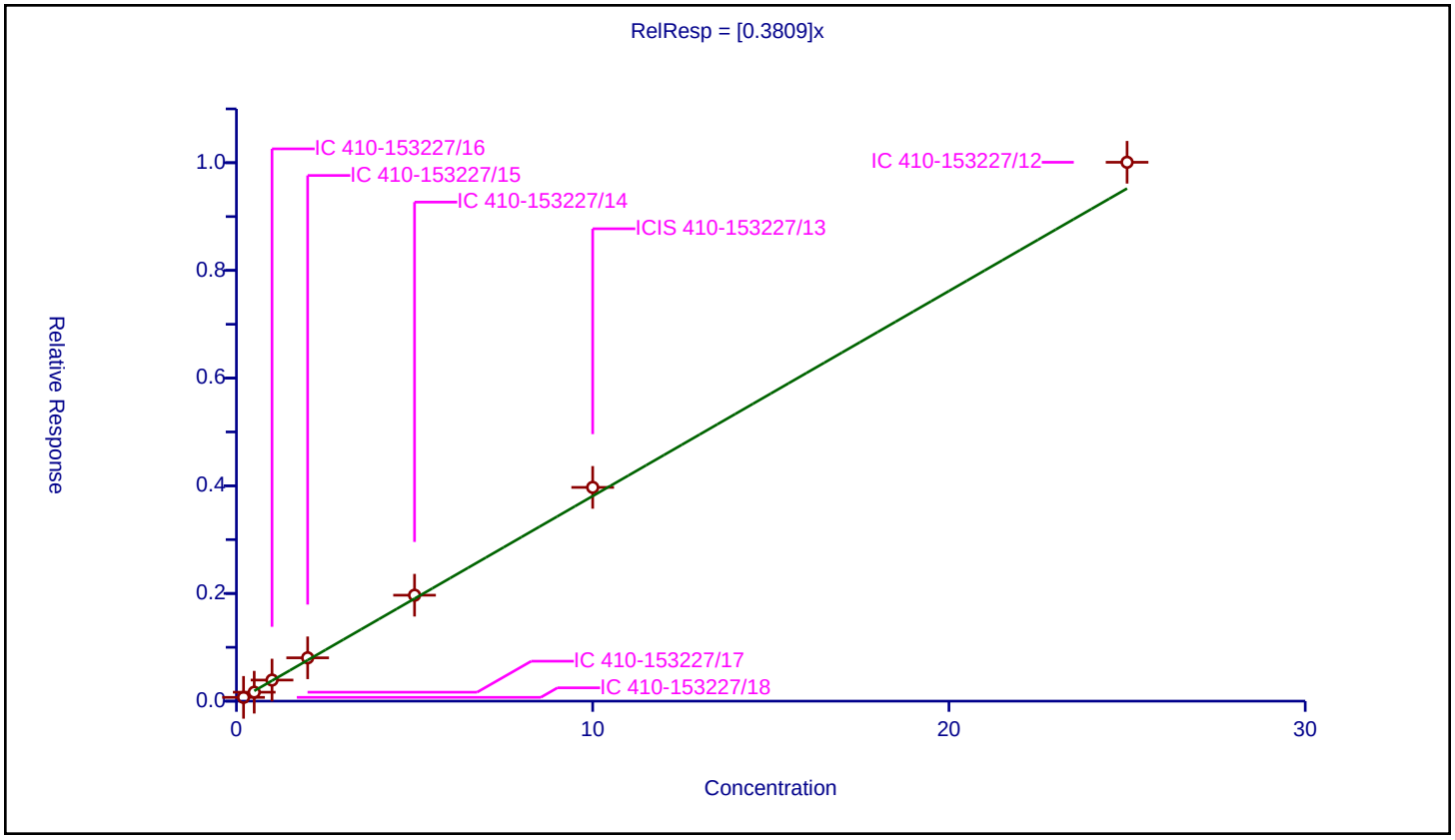
Curve Coefficients

Intercept:	0
Slope:	0.3809

Error Coefficients

Standard Error:	696000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.069846	10.0	1471101.0	0.349228	Y
2	IC 410-153227/17	0.5	0.166091	10.0	1470938.0	0.332183	Y
3	IC 410-153227/16	1.0	0.391494	10.0	1480101.0	0.391494	Y
4	IC 410-153227/15	2.0	0.804778	10.0	1500688.0	0.402389	Y
5	IC 410-153227/14	5.0	1.967362	10.0	1534420.0	0.393472	Y
6	ICIS 410-153227/13	10.0	3.970273	10.0	1539325.0	0.397027	Y
7	IC 410-153227/12	25.0	10.008539	10.0	1556461.0	0.400342	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

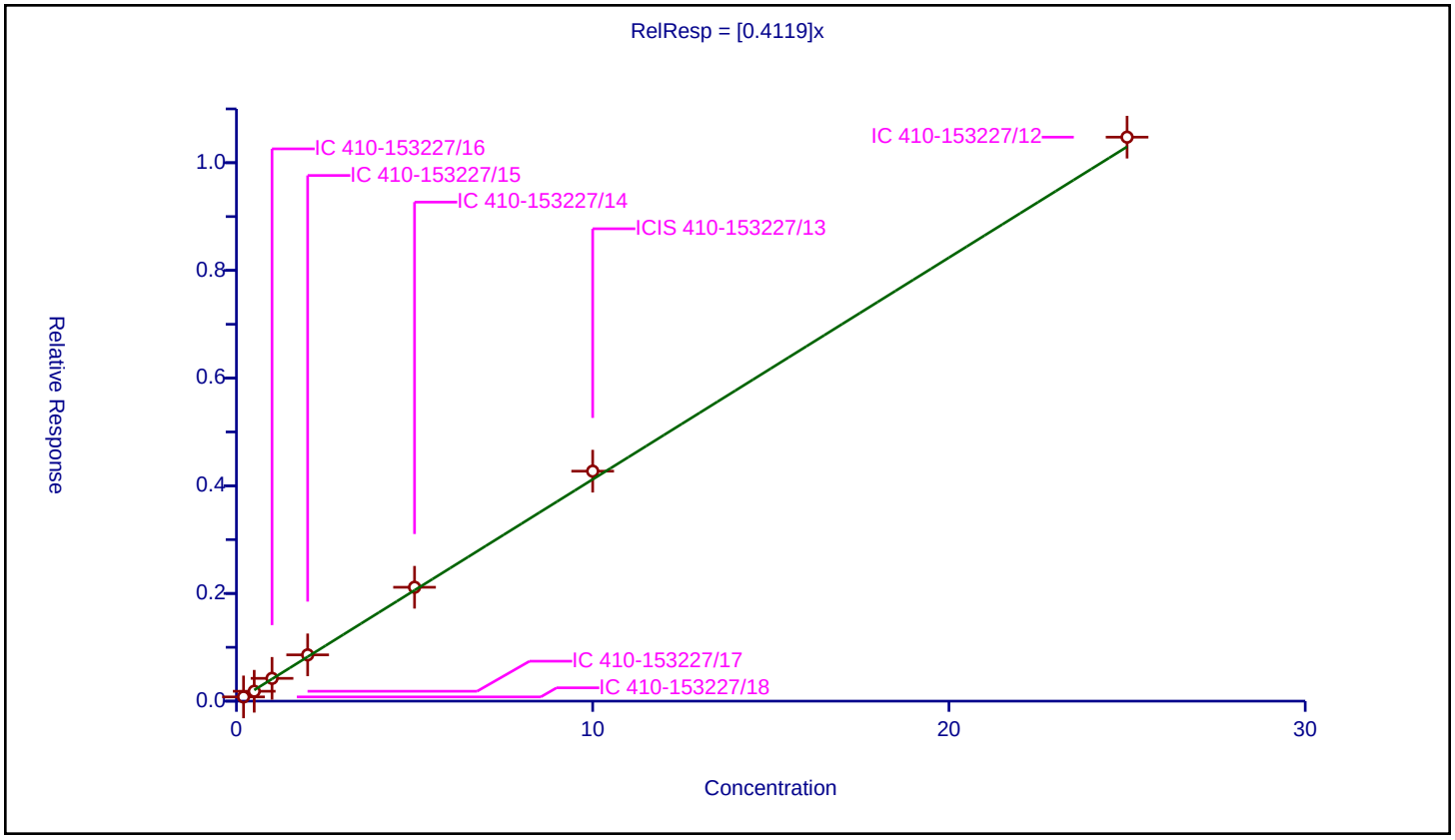
Curve Coefficients

Intercept:	0
Slope:	0.4119

Error Coefficients

Standard Error:	732000
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 410-153227/18	0.2	0.078594	10.0	1471101.0	0.392971	Y
2	IC 410-153227/17	0.5	0.184005	10.0	1470938.0	0.36801	Y
3	IC 410-153227/16	1.0	0.423322	10.0	1480101.0	0.423322	Y
4	IC 410-153227/15	2.0	0.859279	10.0	1500688.0	0.42964	Y
5	IC 410-153227/14	5.0	2.115092	10.0	1534420.0	0.423018	Y
6	ICIS 410-153227/13	10.0	4.271424	10.0	1539325.0	0.427142	Y
7	IC 410-153227/12	25.0	10.475129	10.0	1556461.0	0.419005	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

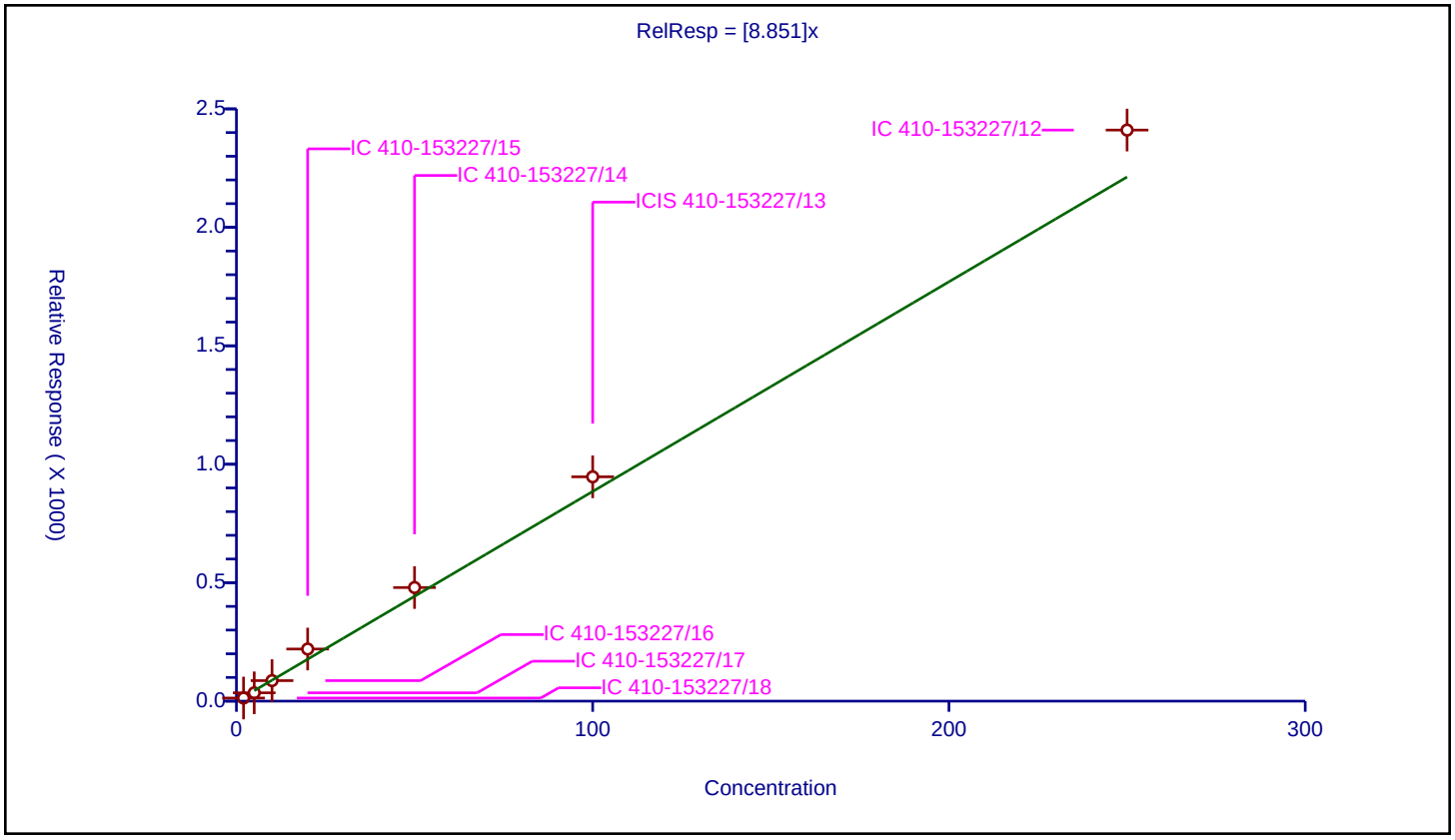
Curve Coefficients

Intercept:	0
Slope:	8.851

Error Coefficients

Standard Error:	2990000
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 410-153227/18	2.0	13.127341	50.0	158566.0	6.563671	Y
2	IC 410-153227/17	5.0	35.131908	50.0	146579.0	7.026382	Y
3	IC 410-153227/16	10.0	86.655005	50.0	143773.0	8.6655	Y
4	IC 410-153227/15	20.0	219.967883	50.0	119562.0	10.998394	Y
5	IC 410-153227/14	50.0	479.575215	50.0	140518.0	9.591504	Y
6	ICIS 410-153227/13	100.0	946.901195	50.0	143636.0	9.469012	Y
7	IC 410-153227/12	250.0	2410.662445	50.0	137853.0	9.64265	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

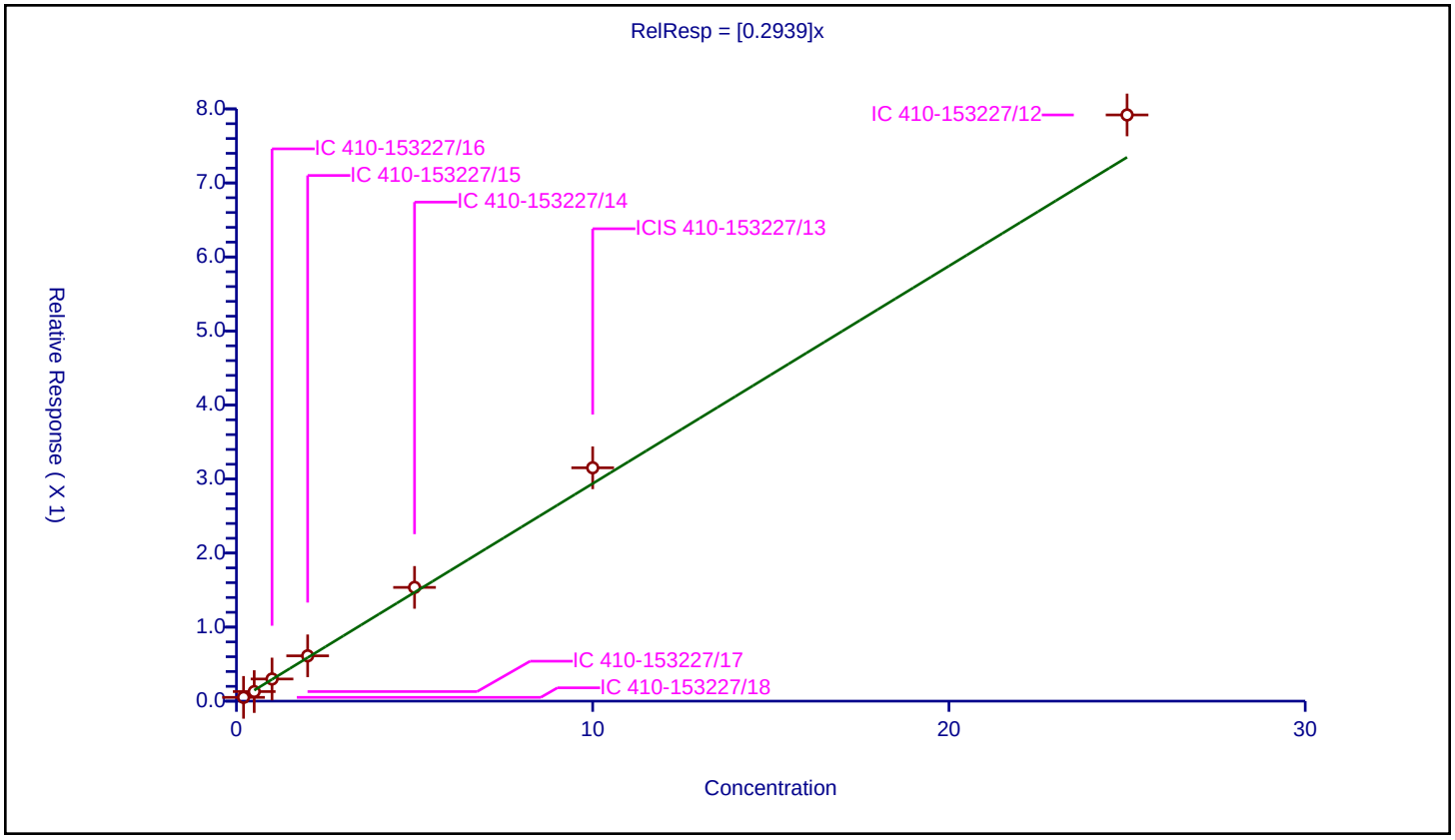
Curve Coefficients

Intercept:	0
Slope:	0.2939

Error Coefficients

Standard Error:	551000
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 410-153227/18	0.2	0.050819	10.0	1471101.0	0.254095	Y
2	IC 410-153227/17	0.5	0.129339	10.0	1470938.0	0.258678	Y
3	IC 410-153227/16	1.0	0.299162	10.0	1480101.0	0.299162	Y
4	IC 410-153227/15	2.0	0.612146	10.0	1500688.0	0.306073	Y
5	IC 410-153227/14	5.0	1.536366	10.0	1534420.0	0.307273	Y
6	ICIS 410-153227/13	10.0	3.151972	10.0	1539325.0	0.315197	Y
7	IC 410-153227/12	25.0	7.918213	10.0	1556461.0	0.316729	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

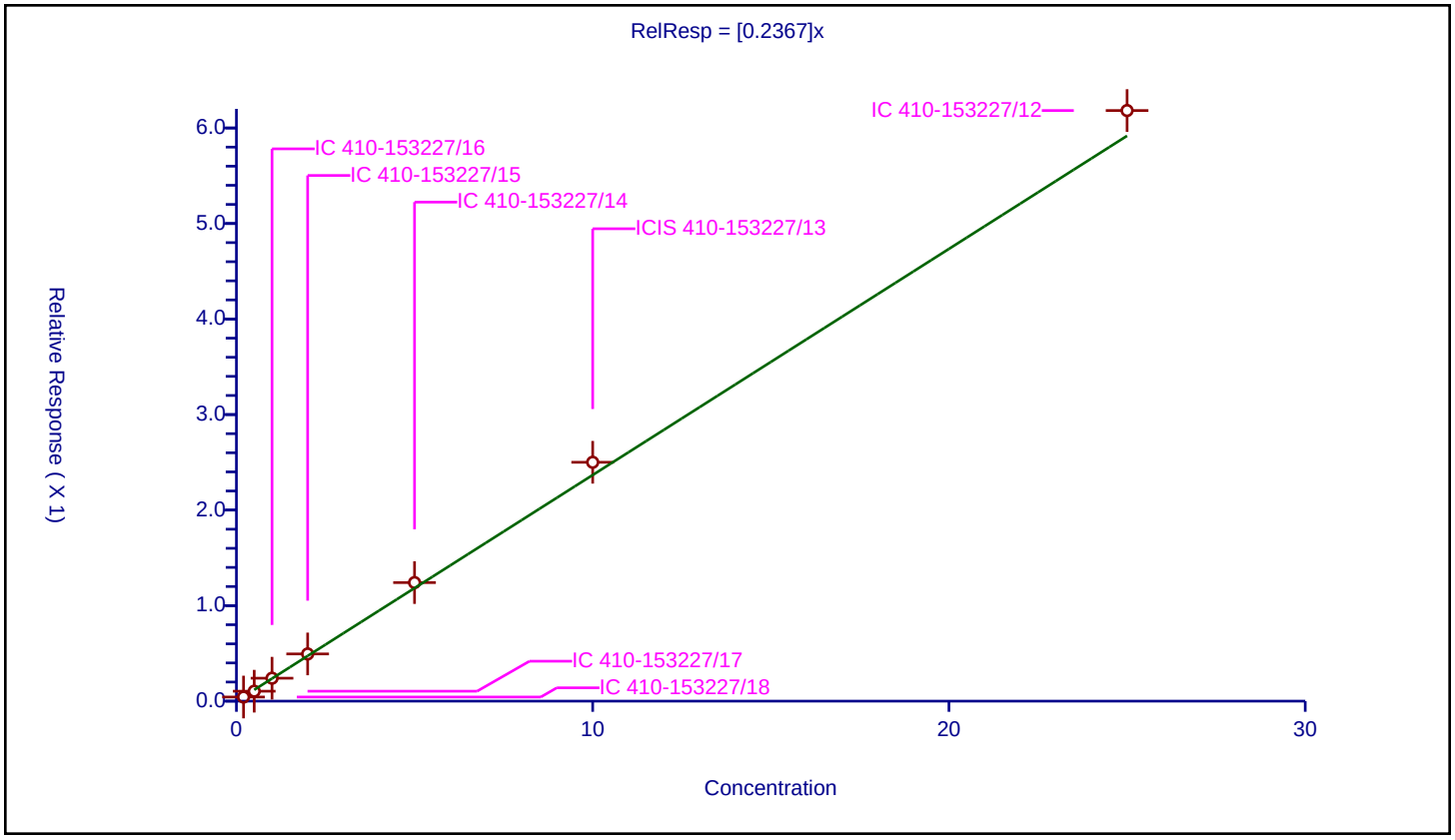
Curve Coefficients

Intercept:	0
Slope:	0.2367

Error Coefficients

Standard Error:	432000
Relative Standard Error:	7.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.043172	10.0	1471101.0	0.215859	Y
2	IC 410-153227/17	0.5	0.104131	10.0	1470938.0	0.208262	Y
3	IC 410-153227/16	1.0	0.240213	10.0	1480101.0	0.240213	Y
4	IC 410-153227/15	2.0	0.49416	10.0	1500688.0	0.24708	Y
5	IC 410-153227/14	5.0	1.241296	10.0	1534420.0	0.248259	Y
6	ICIS 410-153227/13	10.0	2.500505	10.0	1539325.0	0.250051	Y
7	IC 410-153227/12	25.0	6.182648	10.0	1556461.0	0.247306	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

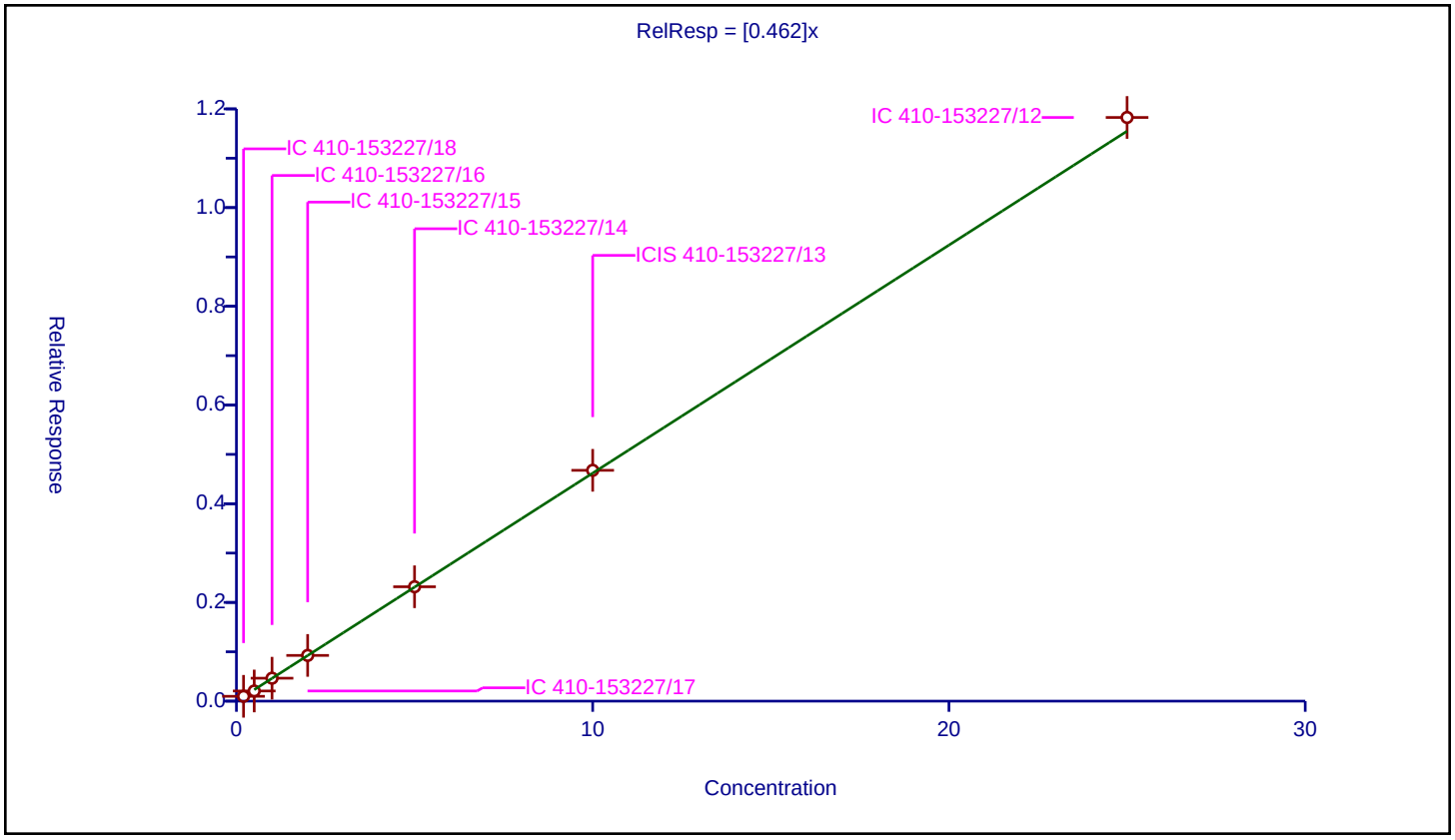
Curve Coefficients

Intercept:	0
Slope:	0.462

Error Coefficients

Standard Error:	822000
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 410-153227/18	0.2	0.09792	10.0	1471101.0	0.489599	Y
2	IC 410-153227/17	0.5	0.206107	10.0	1470938.0	0.412213	Y
3	IC 410-153227/16	1.0	0.464752	10.0	1480101.0	0.464752	Y
4	IC 410-153227/15	2.0	0.926202	10.0	1500688.0	0.463101	Y
5	IC 410-153227/14	5.0	2.317358	10.0	1534420.0	0.463472	Y
6	ICIS 410-153227/13	10.0	4.676959	10.0	1539325.0	0.467696	Y
7	IC 410-153227/12	25.0	11.826291	10.0	1556461.0	0.473052	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

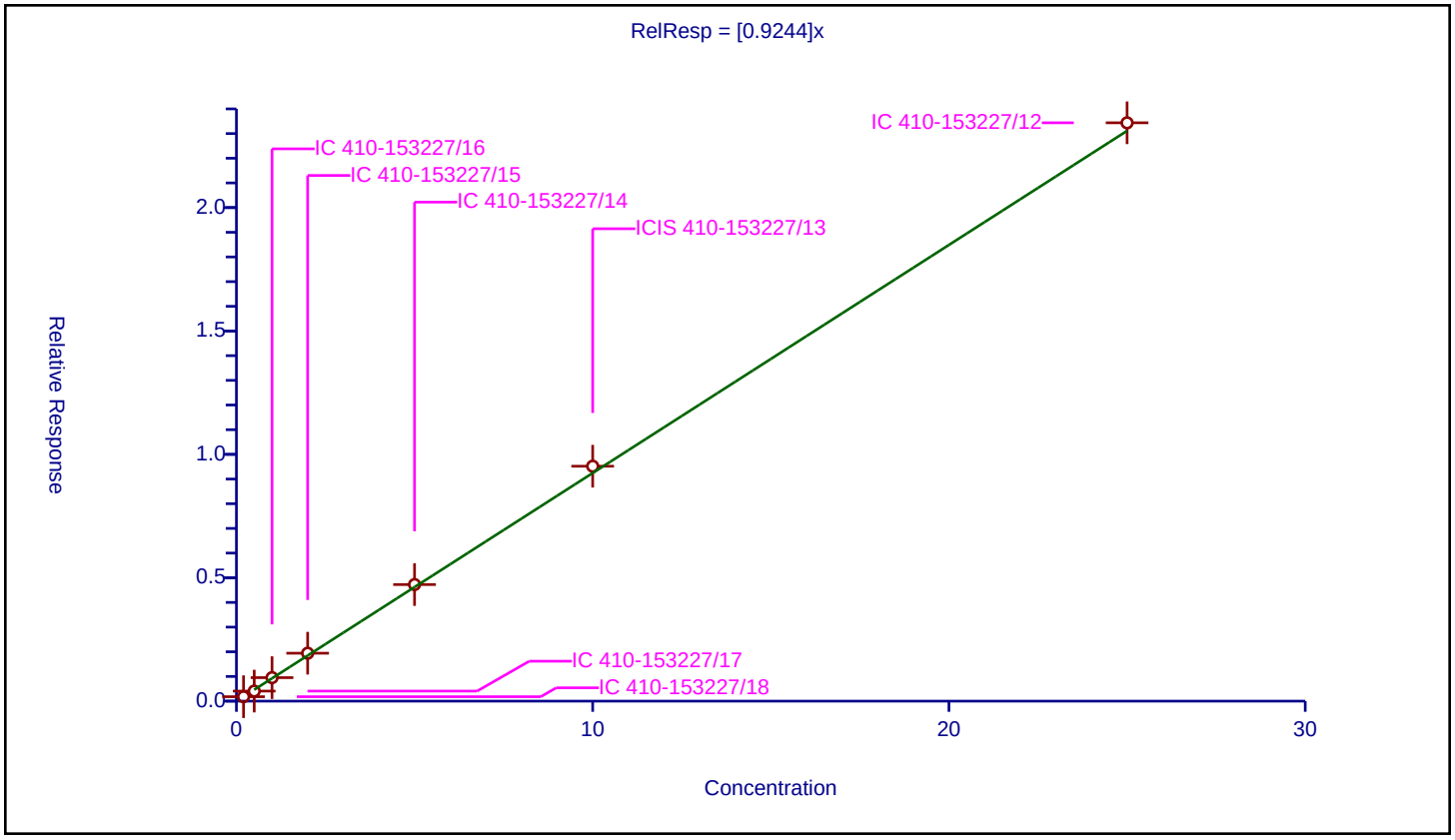
Curve Coefficients

Intercept:	0
Slope:	0.9244

Error Coefficients

Standard Error:	1640000
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 410-153227/18	0.2	0.179512	10.0	1471101.0	0.897559	Y
2	IC 410-153227/17	0.5	0.40774	10.0	1470938.0	0.81548	Y
3	IC 410-153227/16	1.0	0.951955	10.0	1480101.0	0.951955	Y
4	IC 410-153227/15	2.0	1.942522	10.0	1500688.0	0.971261	Y
5	IC 410-153227/14	5.0	4.724704	10.0	1534420.0	0.944941	Y
6	ICIS 410-153227/13	10.0	9.520374	10.0	1539325.0	0.952037	Y
7	IC 410-153227/12	25.0	23.436058	10.0	1556461.0	0.937442	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

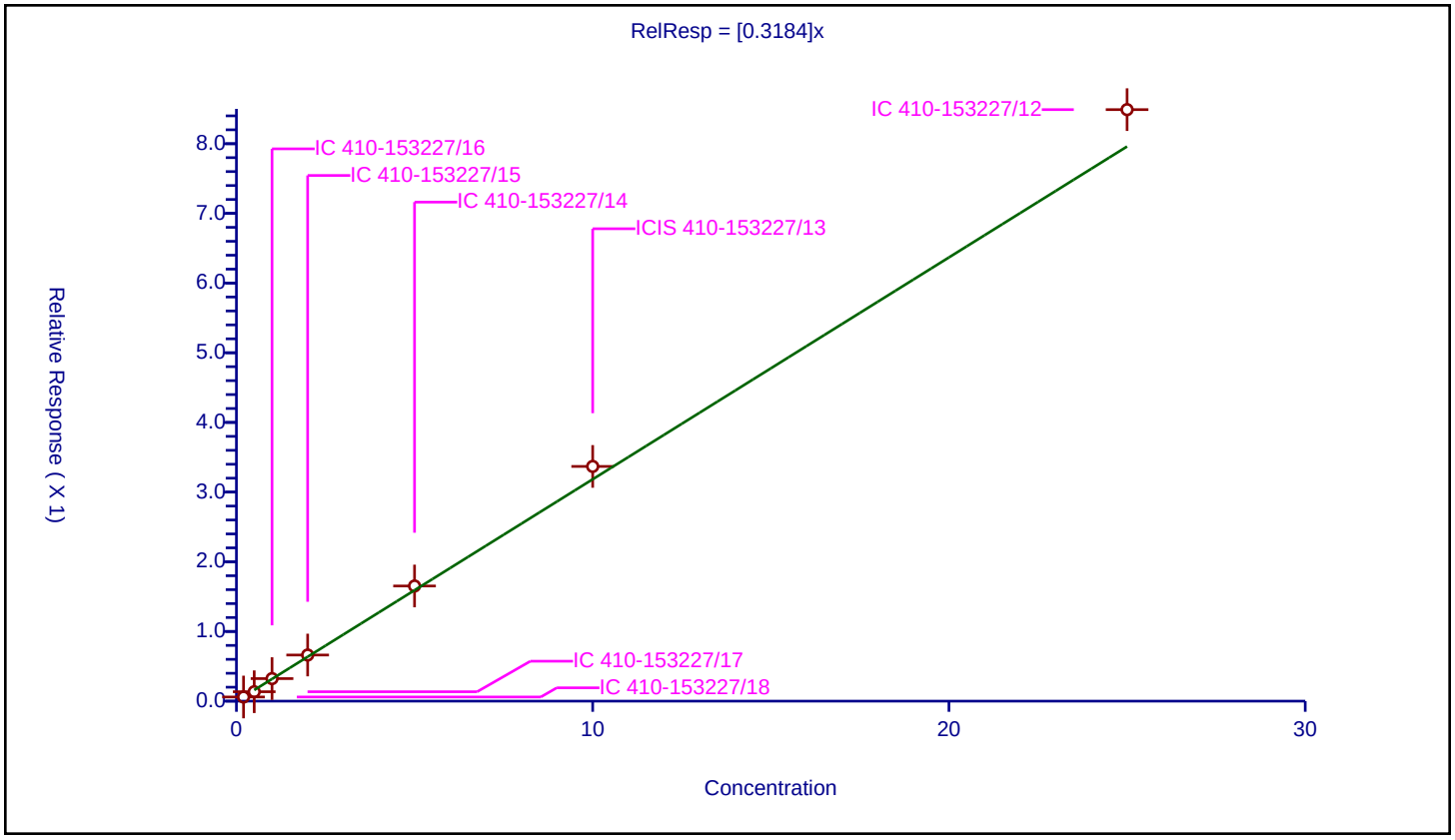
Curve Coefficients

Intercept:	0
Slope:	0.3184

Error Coefficients

Standard Error:	590000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.059425	10.0	1471101.0	0.297124	Y
2	IC 410-153227/17	0.5	0.135097	10.0	1470938.0	0.270195	Y
3	IC 410-153227/16	1.0	0.323613	10.0	1480101.0	0.323613	Y
4	IC 410-153227/15	2.0	0.66191	10.0	1500688.0	0.330955	Y
5	IC 410-153227/14	5.0	1.652768	10.0	1534420.0	0.330554	Y
6	ICIS 410-153227/13	10.0	3.368632	10.0	1539325.0	0.336863	Y
7	IC 410-153227/12	25.0	8.489374	10.0	1556461.0	0.339575	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

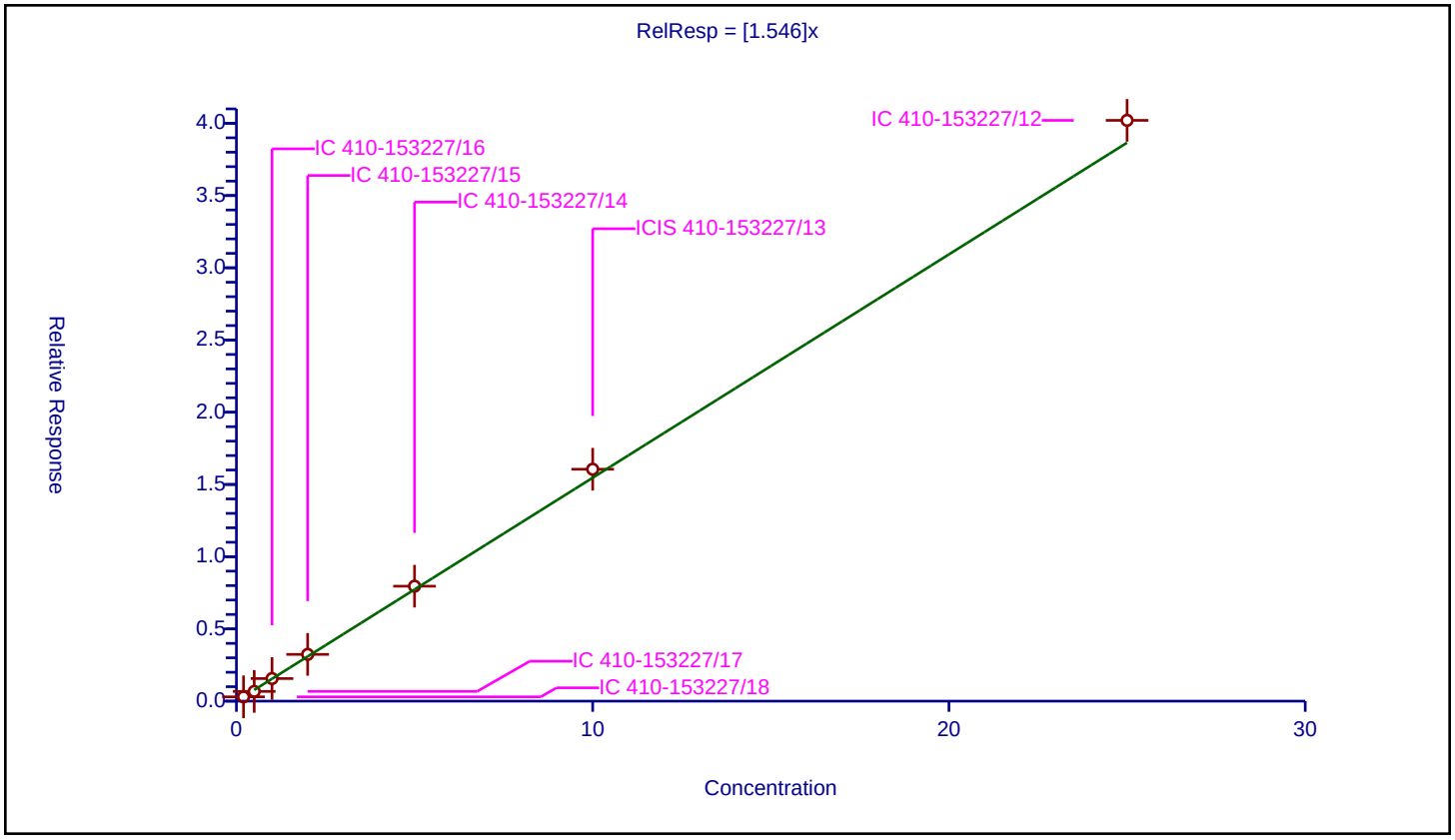
Curve Coefficients

Intercept:	0
Slope:	1.546

Error Coefficients

Standard Error:	2800000
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 410-153227/18	0.2	0.297532	10.0	1471101.0	1.487661	Y
2	IC 410-153227/17	0.5	0.674338	10.0	1470938.0	1.348677	Y
3	IC 410-153227/16	1.0	1.564886	10.0	1480101.0	1.564886	Y
4	IC 410-153227/15	2.0	3.236376	10.0	1500688.0	1.618188	Y
5	IC 410-153227/14	5.0	7.957365	10.0	1534420.0	1.591473	Y
6	ICIS 410-153227/13	10.0	16.054381	10.0	1539325.0	1.605438	Y
7	IC 410-153227/12	25.0	40.2044	10.0	1556461.0	1.608176	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

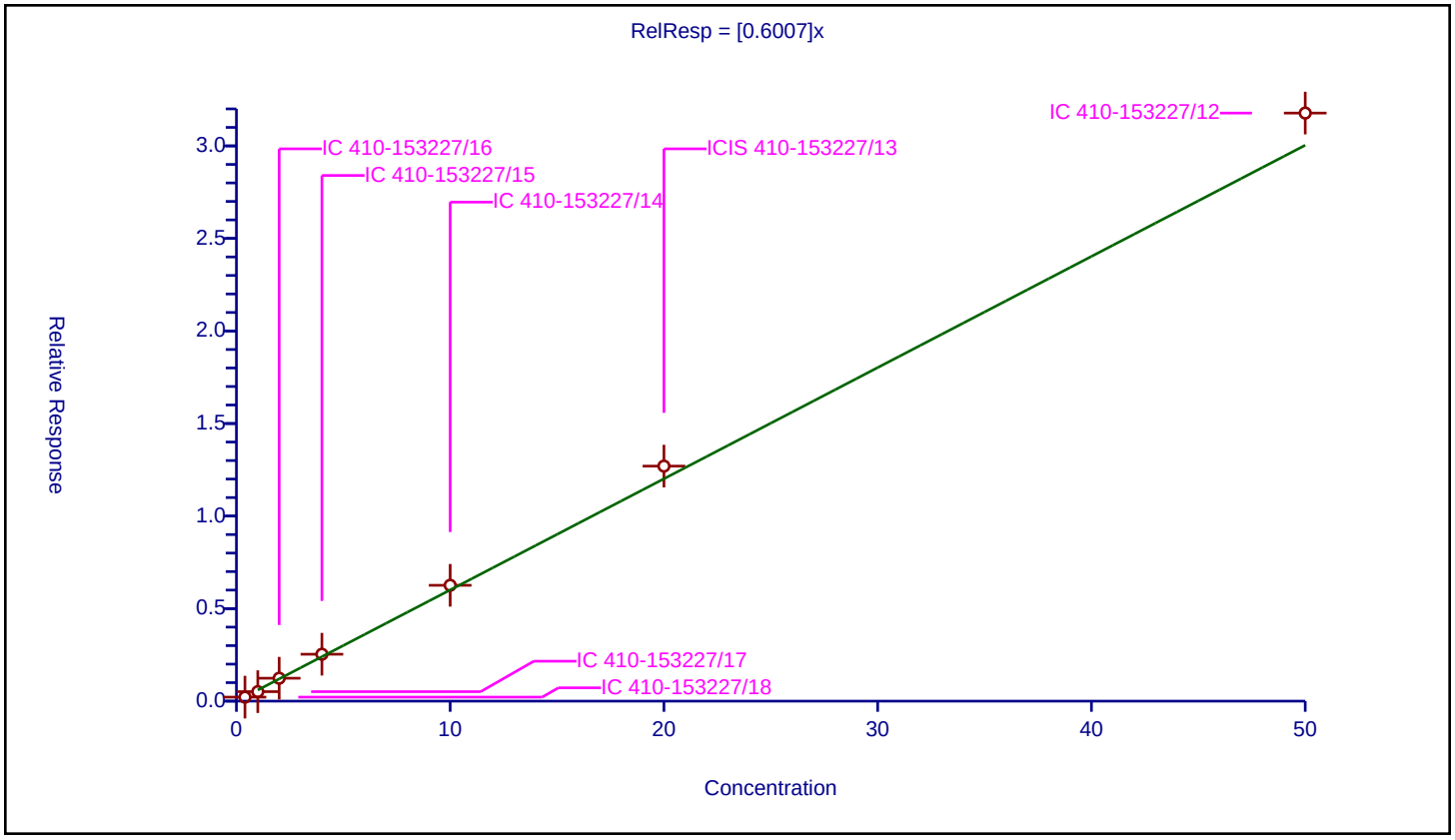
Curve Coefficients

Intercept:	0
Slope:	0.6007

Error Coefficients

Standard Error:	2210000
Relative Standard Error:	8.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.4	0.217279	10.0	1471101.0	0.543199	Y
2	IC 410-153227/17	1.0	0.512625	10.0	1470938.0	0.512625	Y
3	IC 410-153227/16	2.0	1.238233	10.0	1480101.0	0.619117	Y
4	IC 410-153227/15	4.0	2.534897	10.0	1500688.0	0.633724	Y
5	IC 410-153227/14	10.0	6.259916	10.0	1534420.0	0.625992	Y
6	ICIS 410-153227/13	20.0	12.699339	10.0	1539325.0	0.634967	Y
7	IC 410-153227/12	50.0	31.774487	10.0	1556461.0	0.63549	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

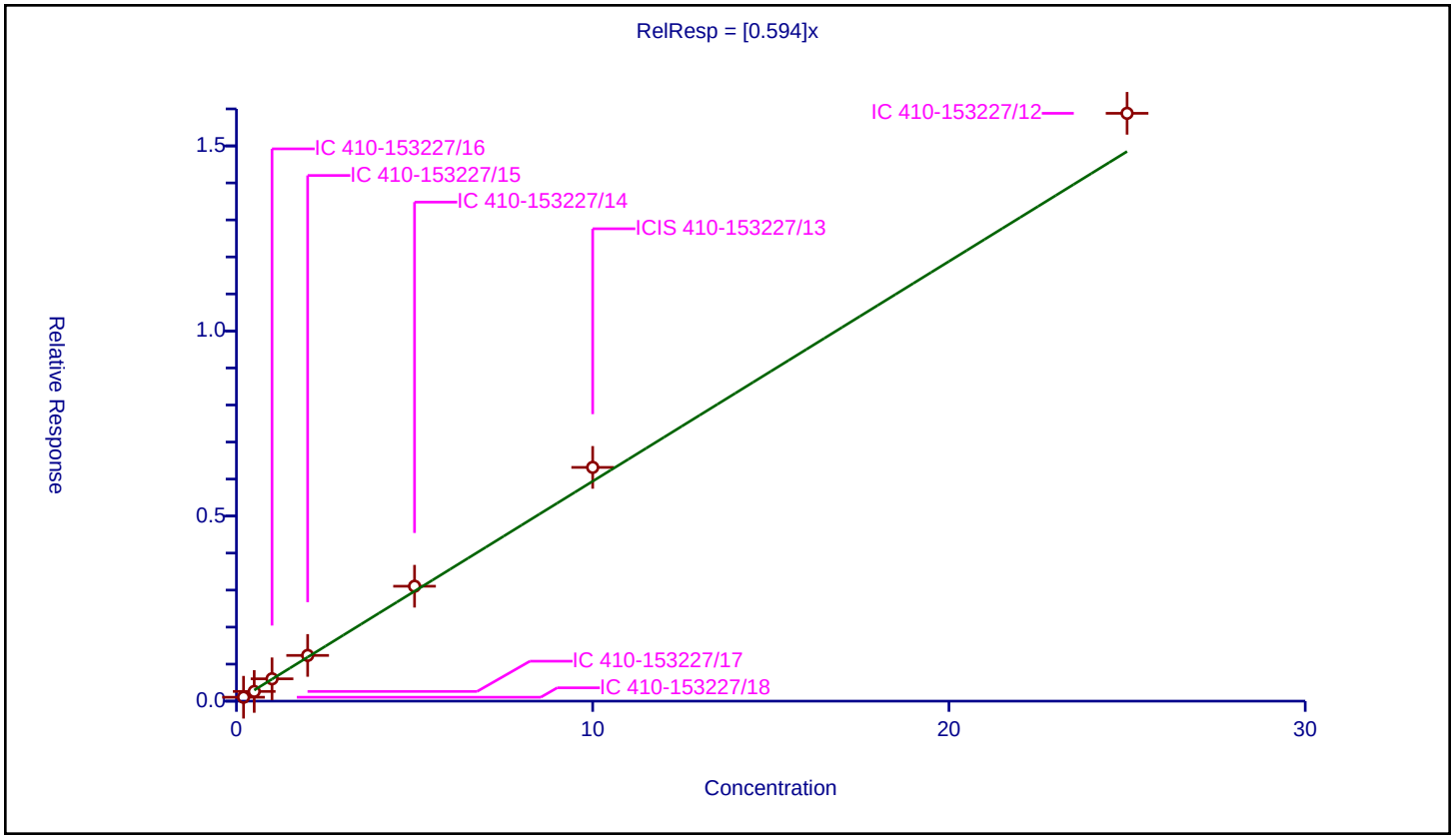
Curve Coefficients

Intercept:	0
Slope:	0.594

Error Coefficients

Standard Error:	1100000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.105112	10.0	1471101.0	0.525559	Y
2	IC 410-153227/17	0.5	0.262023	10.0	1470938.0	0.524047	Y
3	IC 410-153227/16	1.0	0.603351	10.0	1480101.0	0.603351	Y
4	IC 410-153227/15	2.0	1.235	10.0	1500688.0	0.6175	Y
5	IC 410-153227/14	5.0	3.104385	10.0	1534420.0	0.620877	Y
6	ICIS 410-153227/13	10.0	6.315021	10.0	1539325.0	0.631502	Y
7	IC 410-153227/12	25.0	15.880738	10.0	1556461.0	0.63523	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

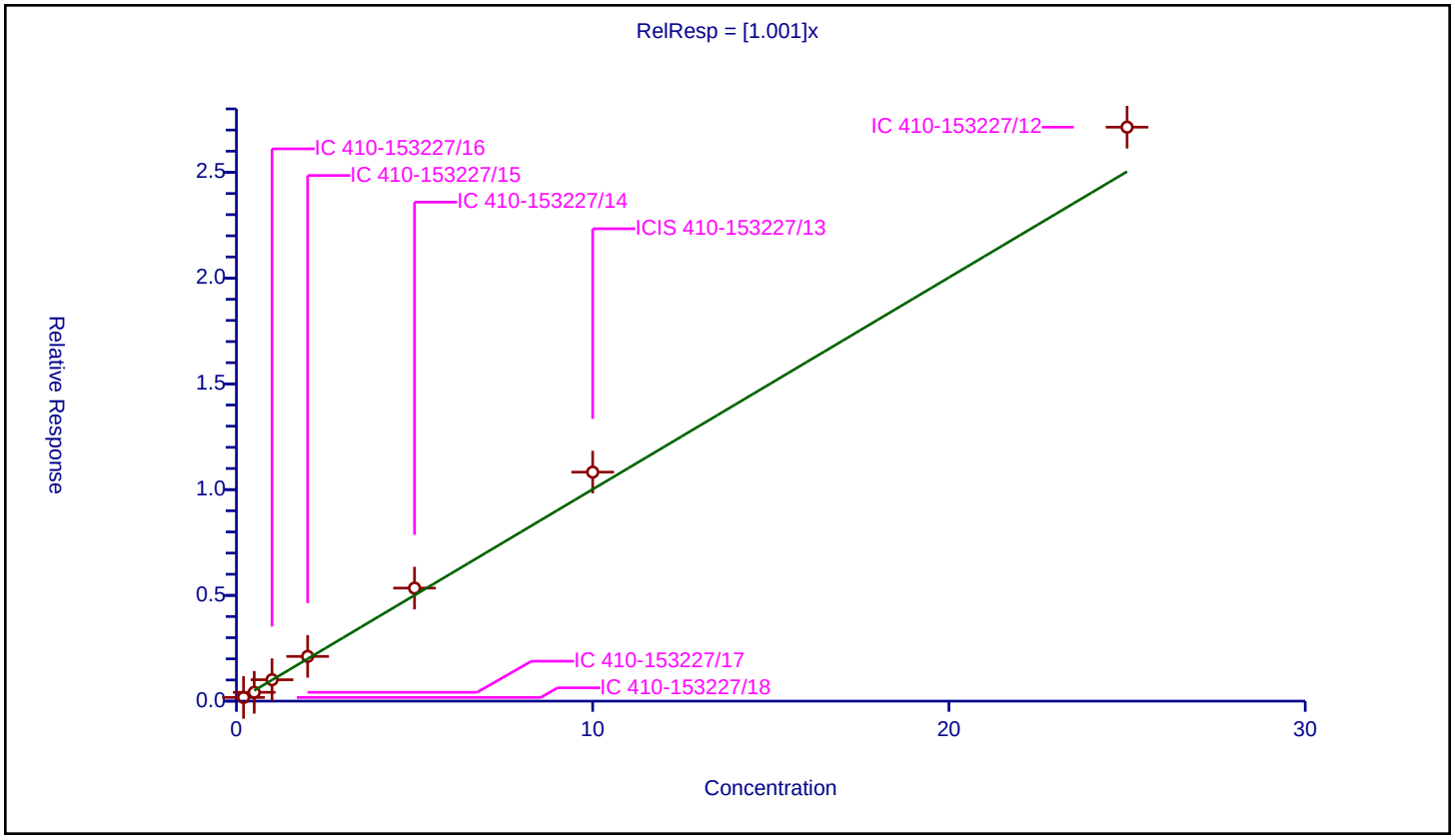
Curve Coefficients

Intercept:	0
Slope:	1.001

Error Coefficients

Standard Error:	1890000
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 410-153227/18	0.2	0.173877	10.0	1471101.0	0.869383	Y
2	IC 410-153227/17	0.5	0.417346	10.0	1470938.0	0.834692	Y
3	IC 410-153227/16	1.0	1.011803	10.0	1480101.0	1.011803	Y
4	IC 410-153227/15	2.0	2.114663	10.0	1500688.0	1.057332	Y
5	IC 410-153227/14	5.0	5.344423	10.0	1534420.0	1.068885	Y
6	ICIS 410-153227/13	10.0	10.827077	10.0	1539325.0	1.082708	Y
7	IC 410-153227/12	25.0	27.135765	10.0	1556461.0	1.085431	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

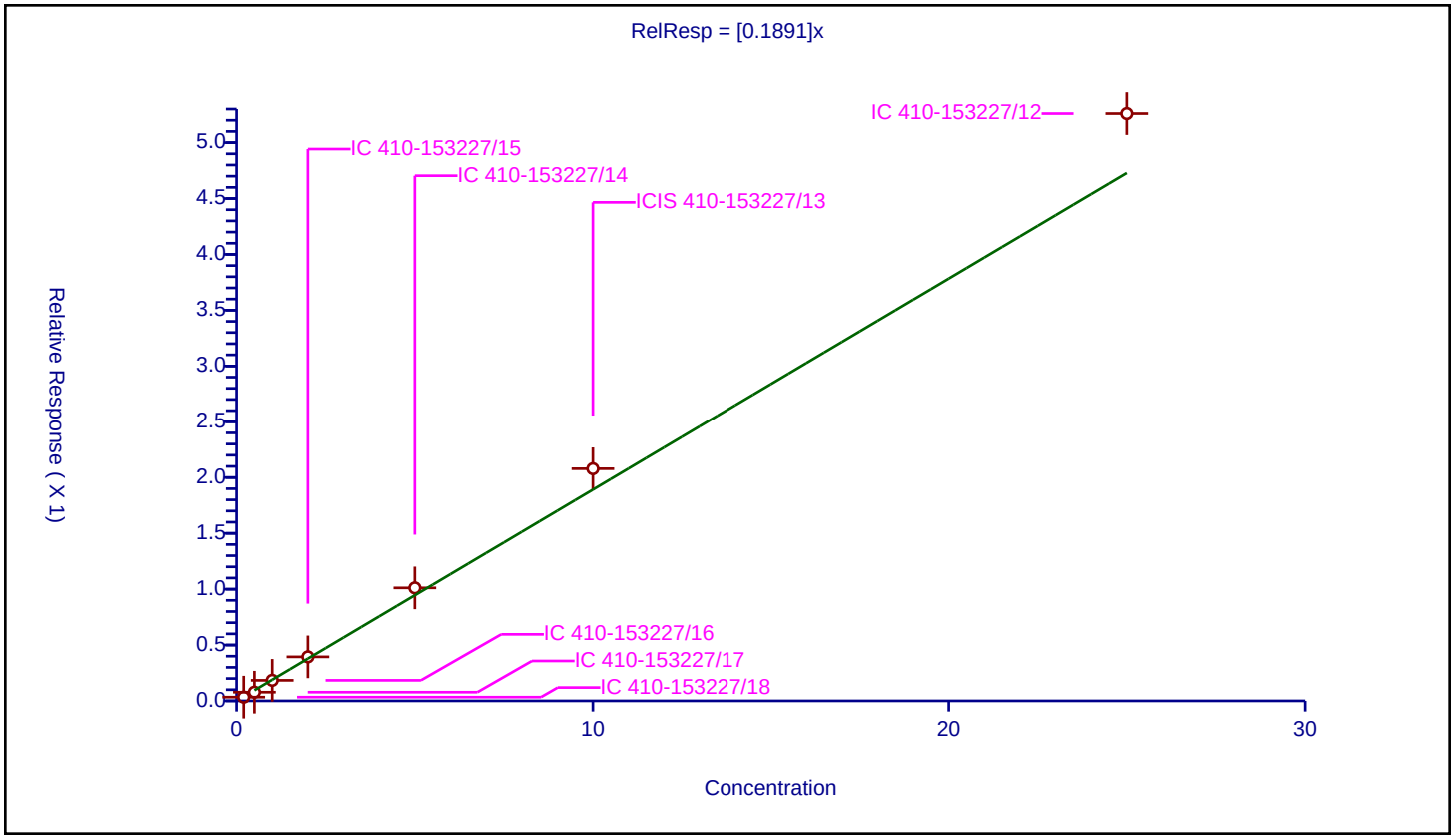
Curve Coefficients

Intercept:	0
Slope:	0.1891

Error Coefficients

Standard Error:	365000
Relative Standard Error:	11.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.03339	10.0	1471101.0	0.16695	Y
2	IC 410-153227/17	0.5	0.077753	10.0	1470938.0	0.155506	Y
3	IC 410-153227/16	1.0	0.183933	10.0	1480101.0	0.183933	Y
4	IC 410-153227/15	2.0	0.394046	10.0	1500688.0	0.197023	Y
5	IC 410-153227/14	5.0	1.011587	10.0	1534420.0	0.202317	Y
6	ICIS 410-153227/13	10.0	2.07921	10.0	1539325.0	0.207921	Y
7	IC 410-153227/12	25.0	5.259721	10.0	1556461.0	0.210389	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

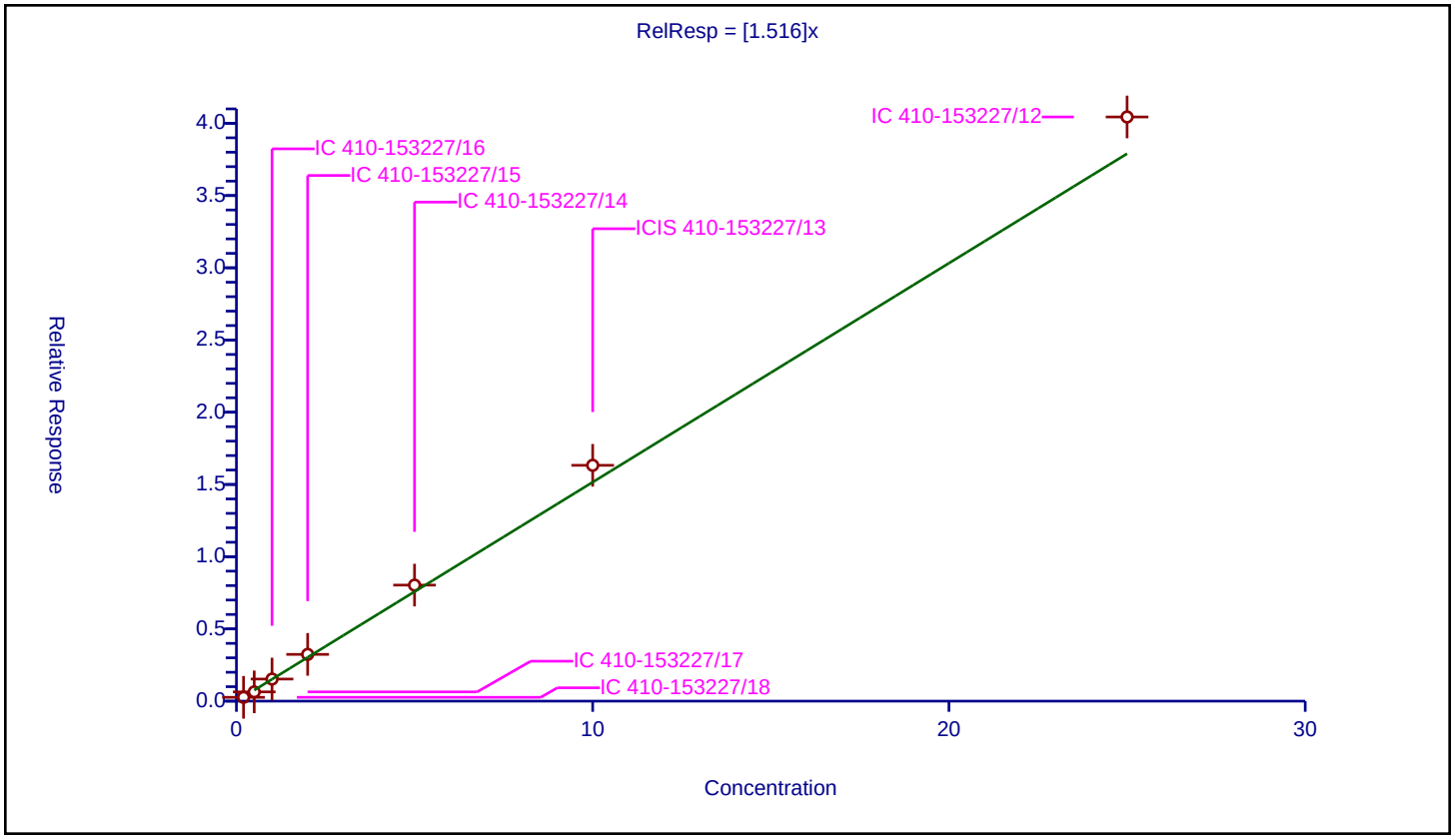
Curve Coefficients

Intercept:	0
Slope:	1.516

Error Coefficients

Standard Error:	2820000
Relative Standard Error:	9.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.265189	10.0	1471101.0	1.325946	Y
2	IC 410-153227/17	0.5	0.640809	10.0	1470938.0	1.281618	Y
3	IC 410-153227/16	1.0	1.529119	10.0	1480101.0	1.529119	Y
4	IC 410-153227/15	2.0	3.236236	10.0	1500688.0	1.618118	Y
5	IC 410-153227/14	5.0	8.032195	10.0	1534420.0	1.606439	Y
6	ICIS 410-153227/13	10.0	16.326318	10.0	1539325.0	1.632632	Y
7	IC 410-153227/12	25.0	40.441424	10.0	1556461.0	1.617657	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

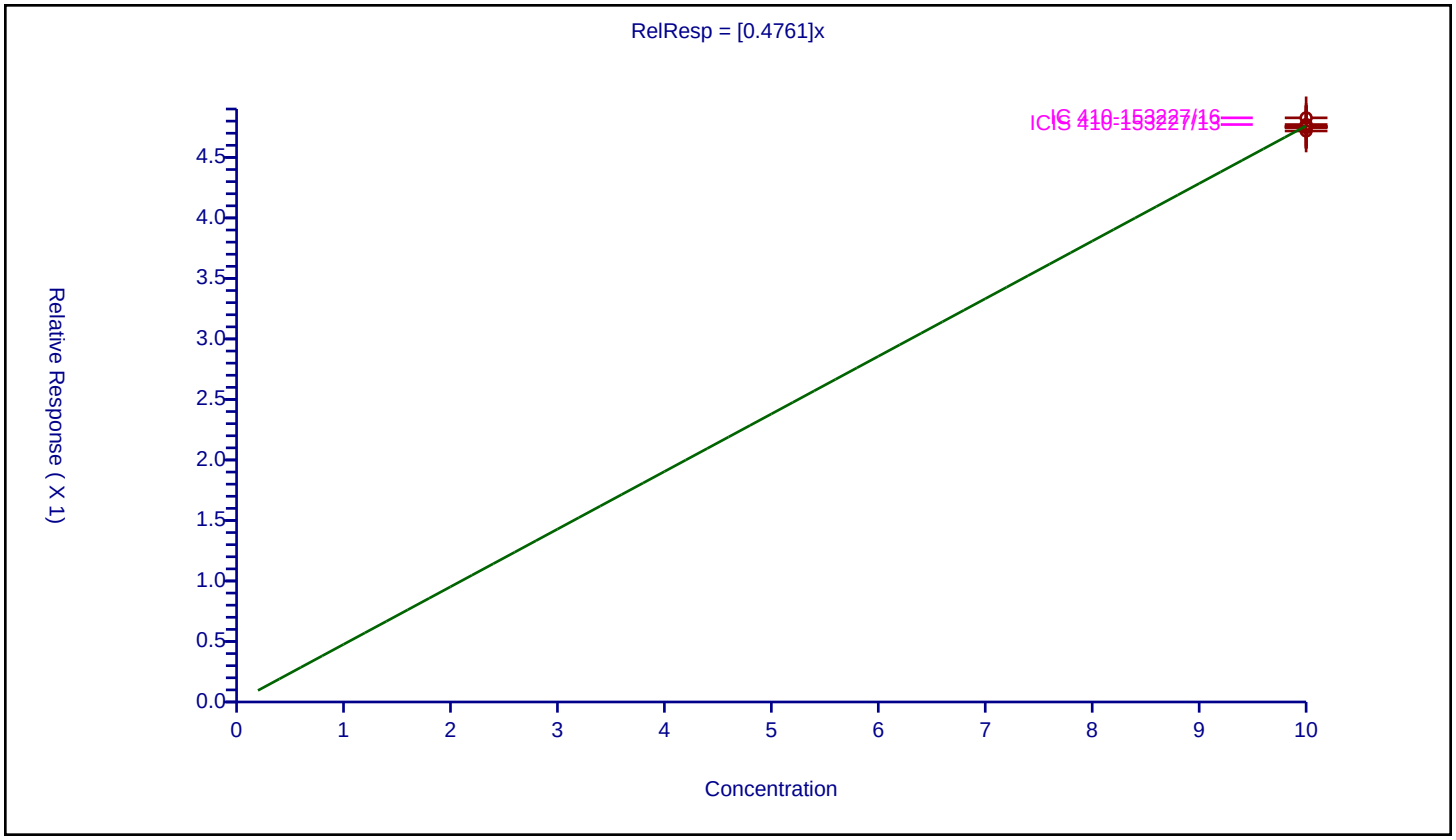
Curve Coefficients

Intercept:	0
Slope:	0.4761

Error Coefficients

Standard Error:	775000
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	ICIS 410-153227/13	10.0	4.771819	10.0	1539325.0	0.477182	Y
2	IC 410-153227/14	10.0	4.75538	10.0	1534420.0	0.475538	Y
3	IC 410-153227/12	10.0	4.746126	10.0	1556461.0	0.474613	Y
4	IC 410-153227/15	10.0	4.754466	10.0	1500688.0	0.475447	Y
5	IC 410-153227/16	10.0	4.826988	10.0	1480101.0	0.482699	Y
6	IC 410-153227/17	10.0	4.750615	10.0	1470938.0	0.475061	Y
7	IC 410-153227/18	10.0	4.718677	10.0	1471101.0	0.471868	Y



Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

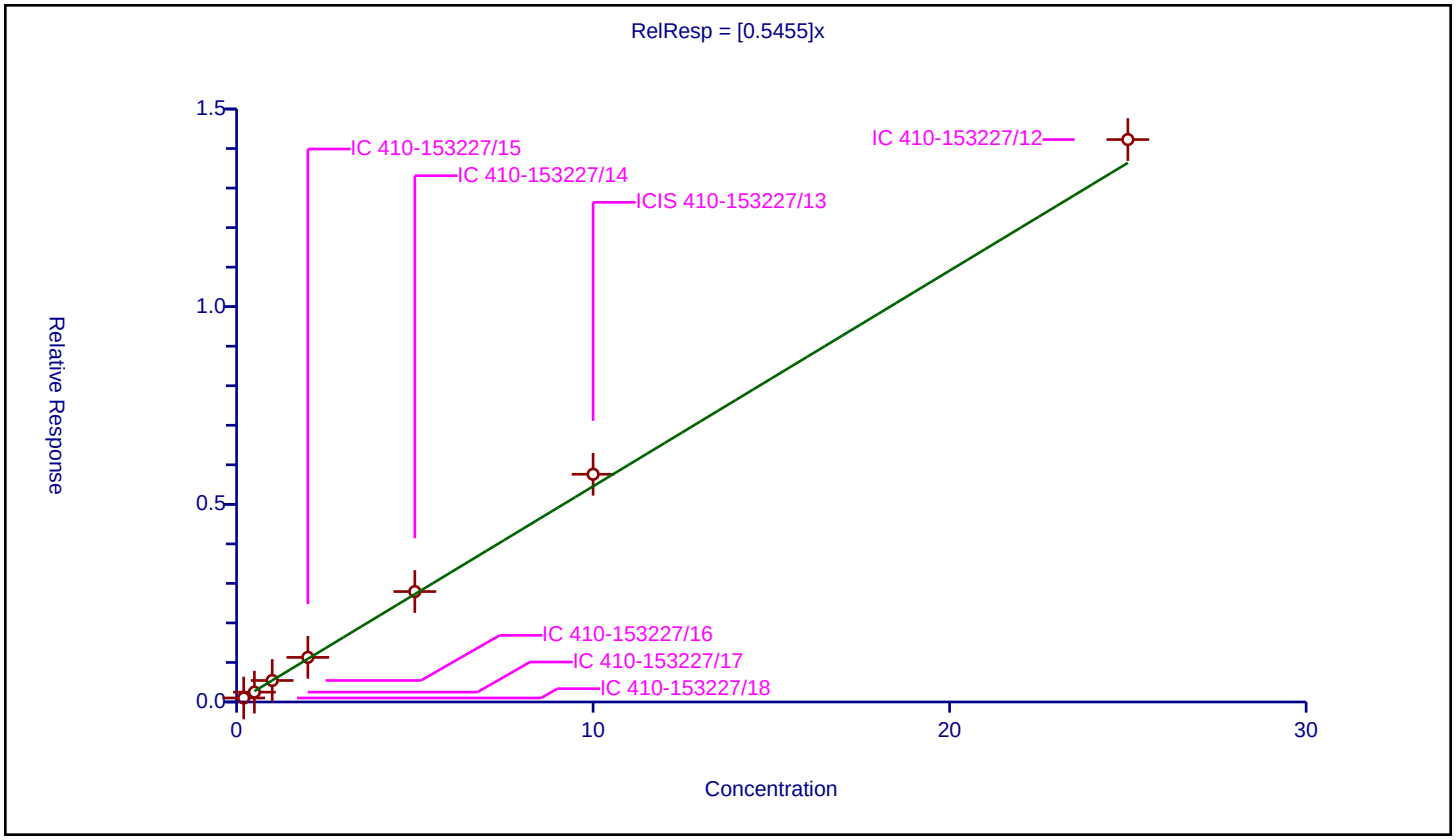
Curve Coefficients

Intercept:	0
Slope:	0.5455

Error Coefficients

Standard Error:	583000
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 410-153227/18	0.2	0.101752	10.0	858555.0	0.508762	Y
2	IC 410-153227/17	0.5	0.249073	10.0	857900.0	0.498147	Y
3	IC 410-153227/16	1.0	0.54372	10.0	875966.0	0.54372	Y
4	IC 410-153227/15	2.0	1.128435	10.0	879209.0	0.564217	Y
5	IC 410-153227/14	5.0	2.793784	10.0	897174.0	0.558757	Y
6	ICIS 410-153227/13	10.0	5.760463	10.0	901681.0	0.576046	Y
7	IC 410-153227/12	25.0	14.227325	10.0	914789.0	0.569093	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

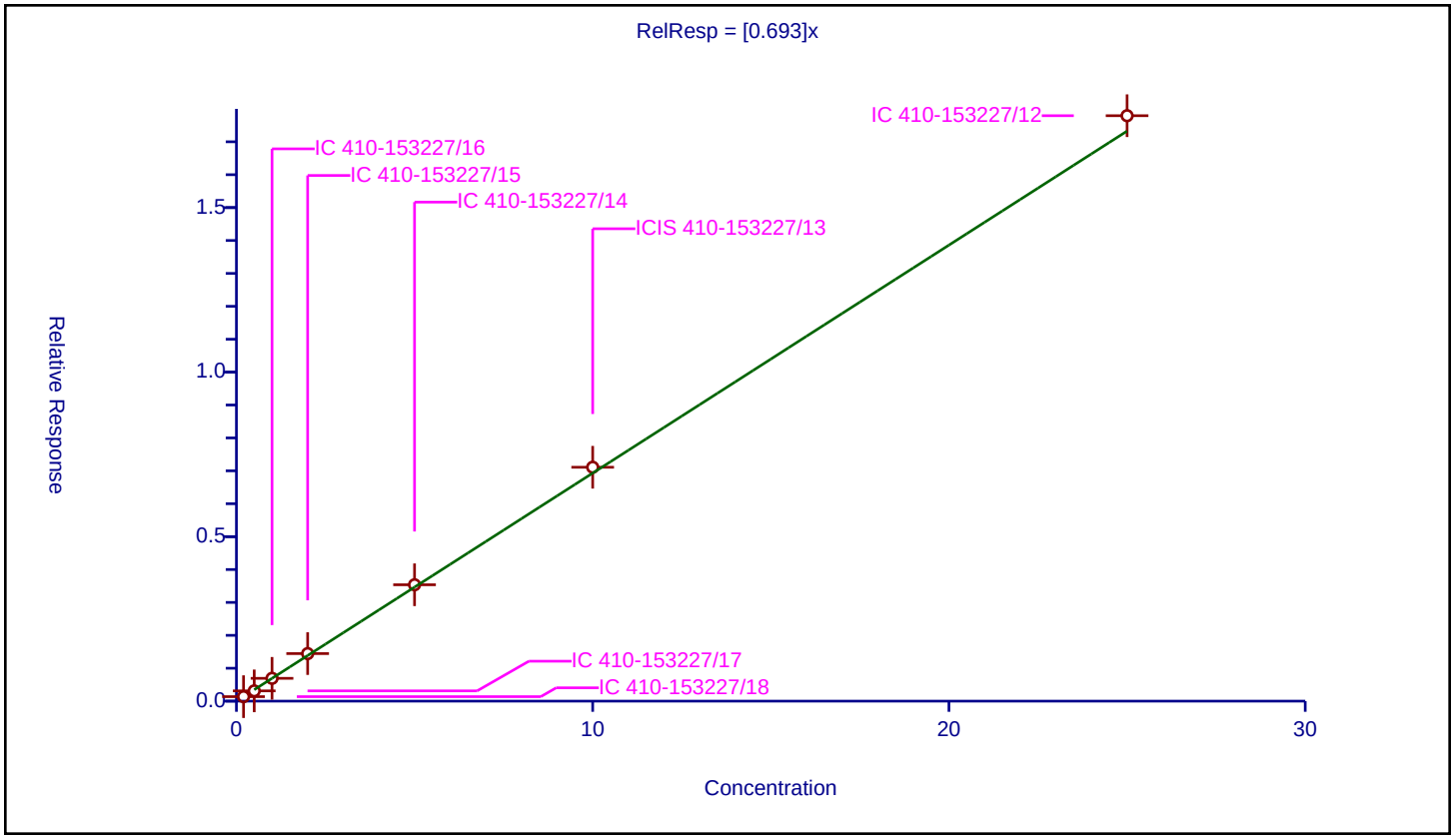
Curve Coefficients

Intercept:	0
Slope:	0.693

Error Coefficients

Standard Error:	728000
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 410-153227/18	0.2	0.136147	10.0	858555.0	0.680737	Y
2	IC 410-153227/17	0.5	0.312263	10.0	857900.0	0.624525	Y
3	IC 410-153227/16	1.0	0.693406	10.0	875966.0	0.693406	Y
4	IC 410-153227/15	2.0	1.445129	10.0	879209.0	0.722564	Y
5	IC 410-153227/14	5.0	3.536694	10.0	897174.0	0.707339	Y
6	ICIS 410-153227/13	10.0	7.108589	10.0	901681.0	0.710859	Y
7	IC 410-153227/12	25.0	17.792726	10.0	914789.0	0.711709	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

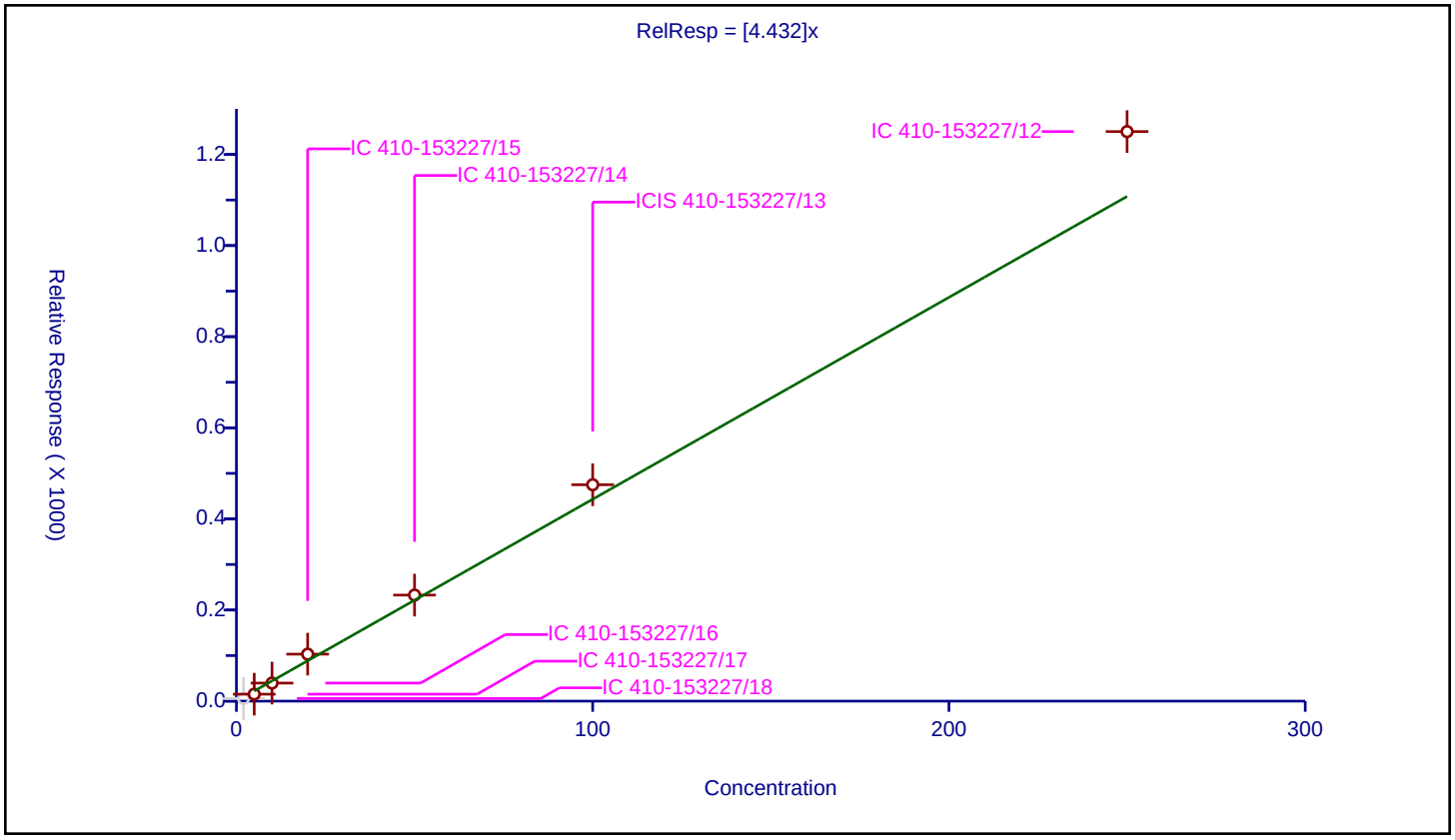
Curve Coefficients

Intercept:	0
Slope:	4.432

Error Coefficients

Standard Error:	1690000
Relative Standard Error:	17.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.962

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	2.0	5.756593	50.0	158566.0	2.878297	N
2	IC 410-153227/17	5.0	15.293801	50.0	146579.0	3.05876	Y
3	IC 410-153227/16	10.0	39.648613	50.0	143773.0	3.964861	Y
4	IC 410-153227/15	20.0	103.177849	50.0	119562.0	5.158892	Y
5	IC 410-153227/14	50.0	232.796866	50.0	140518.0	4.655937	Y
6	ICIS 410-153227/13	100.0	475.018798	50.0	143636.0	4.750188	Y
7	IC 410-153227/12	250.0	1250.170834	50.0	137853.0	5.000683	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

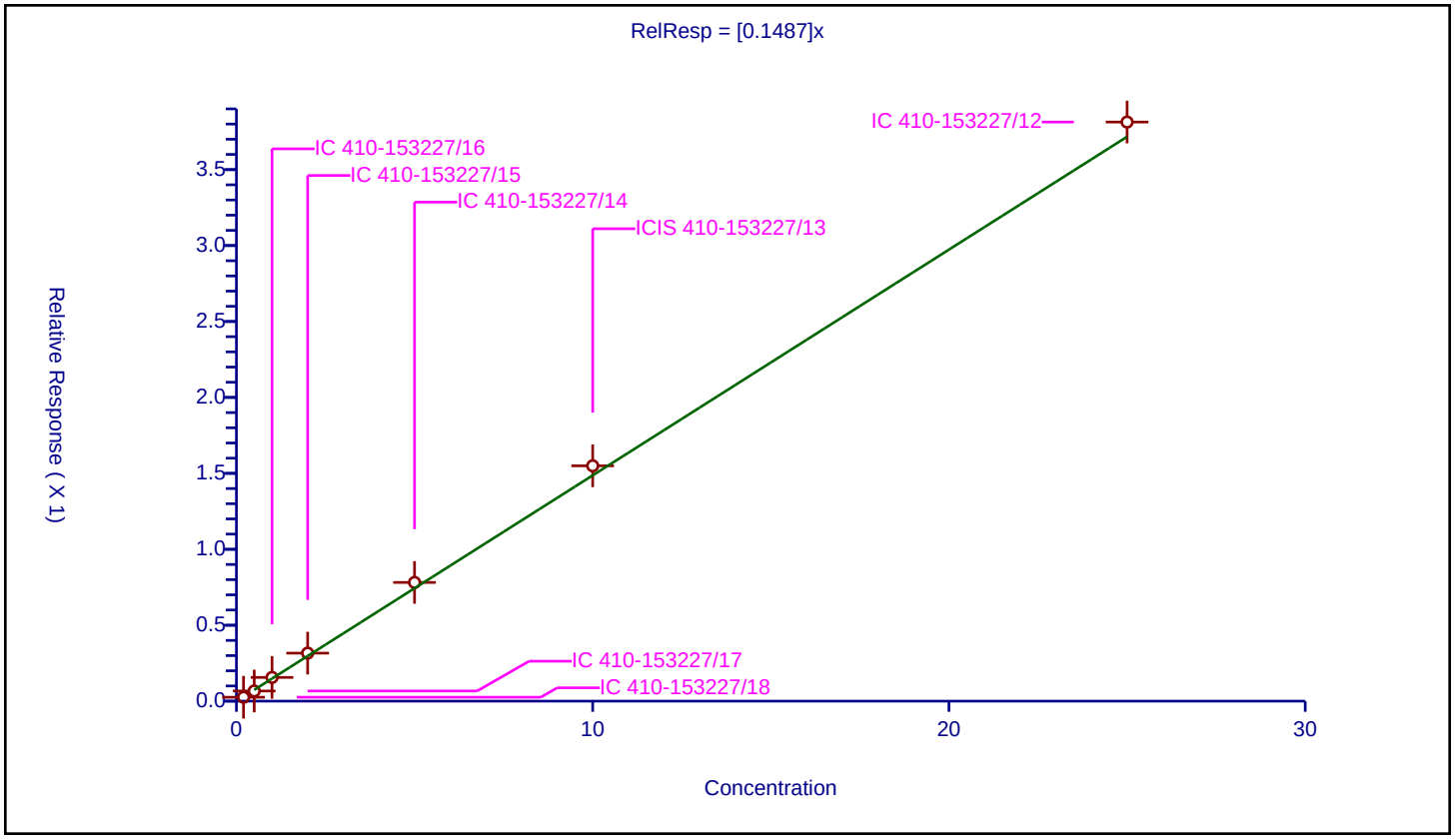
Curve Coefficients

Intercept:	0
Slope:	0.1487

Error Coefficients

Standard Error:	157000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.025764	10.0	858555.0	0.128821	Y
2	IC 410-153227/17	0.5	0.066838	10.0	857900.0	0.133675	Y
3	IC 410-153227/16	1.0	0.156228	10.0	875966.0	0.156228	Y
4	IC 410-153227/15	2.0	0.316159	10.0	879209.0	0.15808	Y
5	IC 410-153227/14	5.0	0.781666	10.0	897174.0	0.156333	Y
6	ICIS 410-153227/13	10.0	1.549639	10.0	901681.0	0.154964	Y
7	IC 410-153227/12	25.0	3.813437	10.0	914789.0	0.152537	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

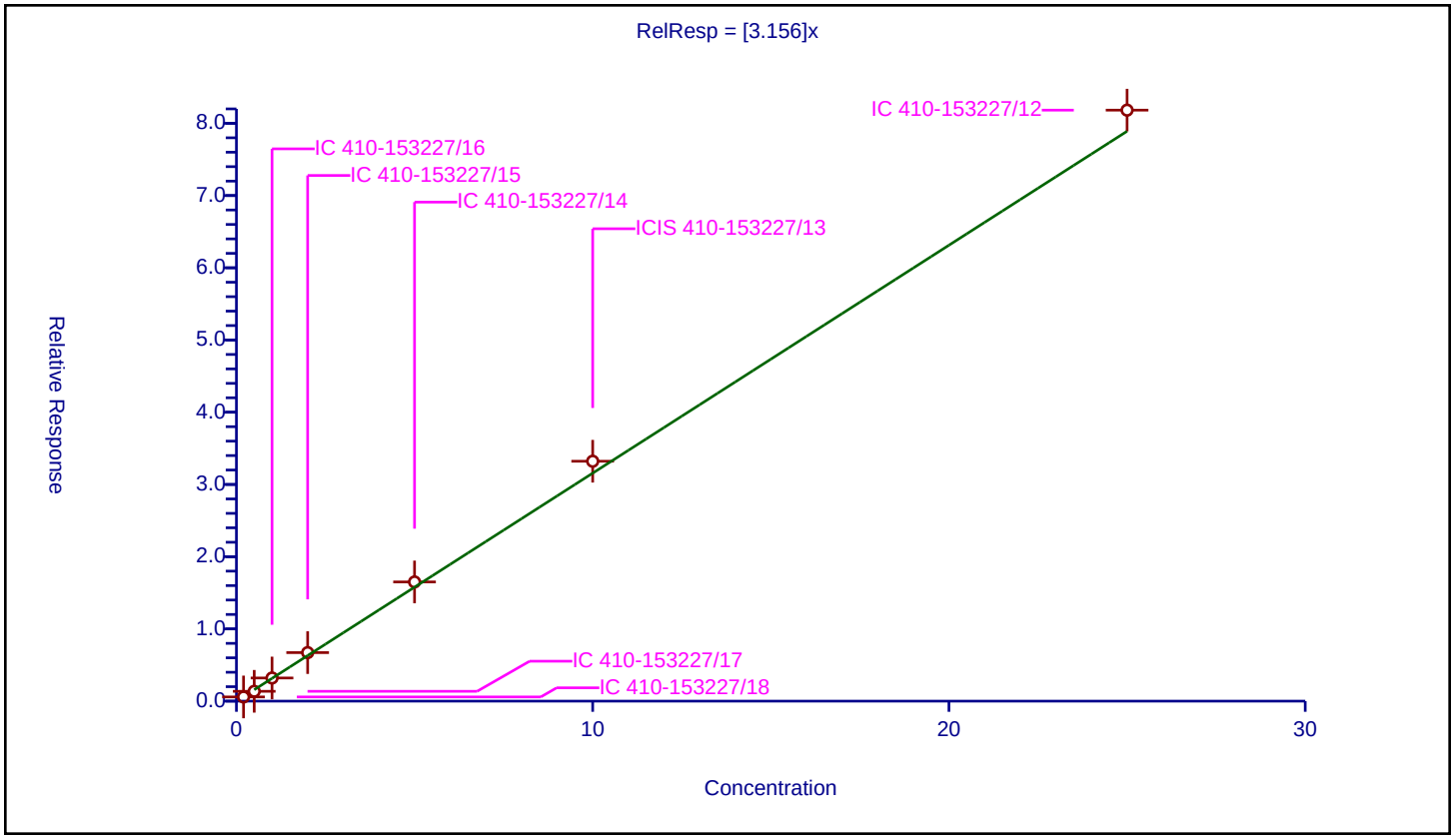
Curve Coefficients

Intercept:	0
Slope:	3.156

Error Coefficients

Standard Error:	3360000
Relative Standard Error:	7.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.581477	10.0	858555.0	2.907385	Y
2	IC 410-153227/17	0.5	1.363154	10.0	857900.0	2.726308	Y
3	IC 410-153227/16	1.0	3.204873	10.0	875966.0	3.204873	Y
4	IC 410-153227/15	2.0	6.720052	10.0	879209.0	3.360026	Y
5	IC 410-153227/14	5.0	16.502841	10.0	897174.0	3.300568	Y
6	ICIS 410-153227/13	10.0	33.218067	10.0	901681.0	3.321807	Y
7	IC 410-153227/12	25.0	81.825492	10.0	914789.0	3.27302	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

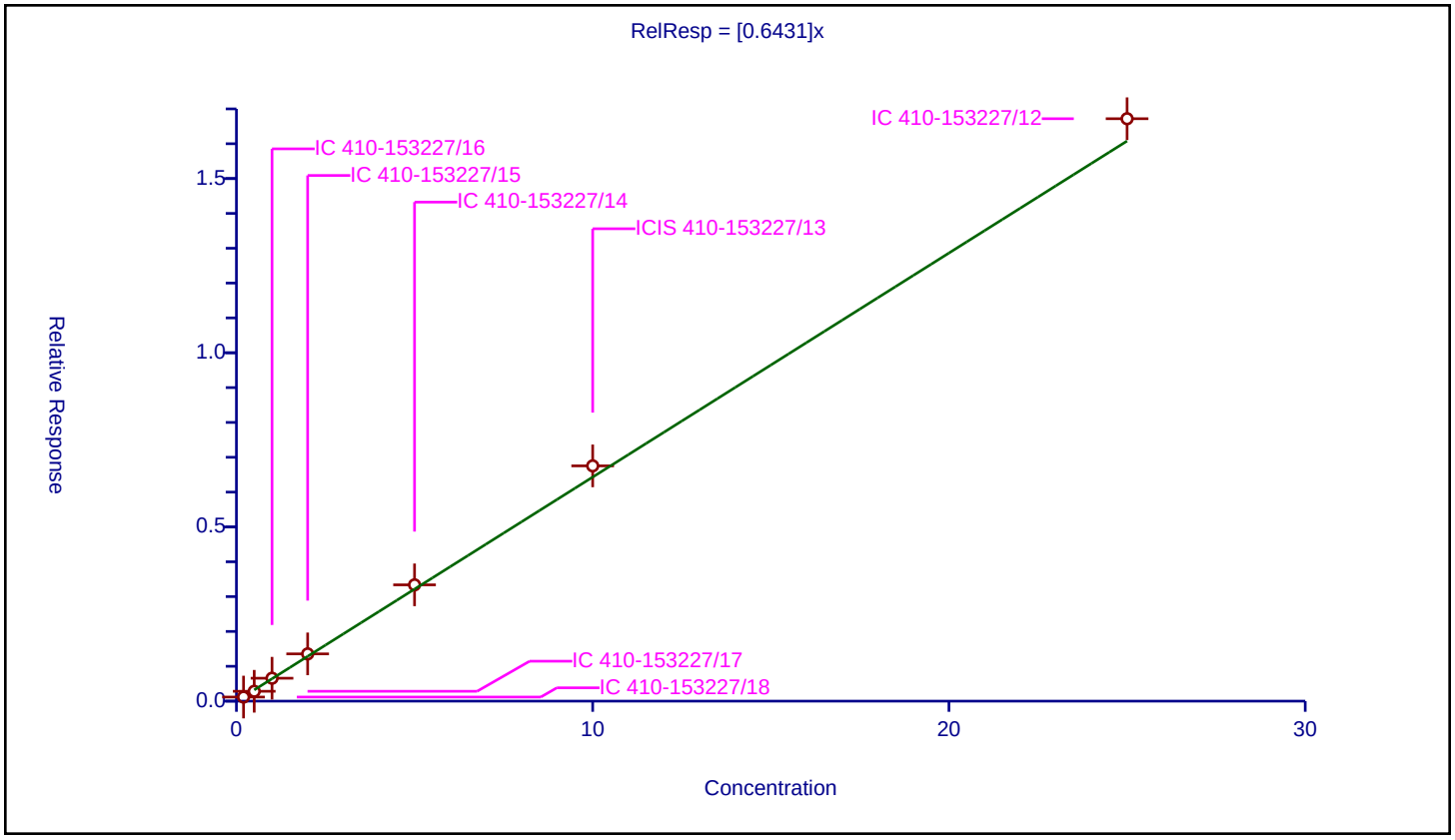
Curve Coefficients

Intercept:	0
Slope:	0.6431

Error Coefficients

Standard Error:	685000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.117605	10.0	858555.0	0.588023	Y
2	IC 410-153227/17	0.5	0.282982	10.0	857900.0	0.565963	Y
3	IC 410-153227/16	1.0	0.658028	10.0	875966.0	0.658028	Y
4	IC 410-153227/15	2.0	1.356253	10.0	879209.0	0.678127	Y
5	IC 410-153227/14	5.0	3.338416	10.0	897174.0	0.667683	Y
6	ICIS 410-153227/13	10.0	6.753275	10.0	901681.0	0.675328	Y
7	IC 410-153227/12	25.0	16.717626	10.0	914789.0	0.668705	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

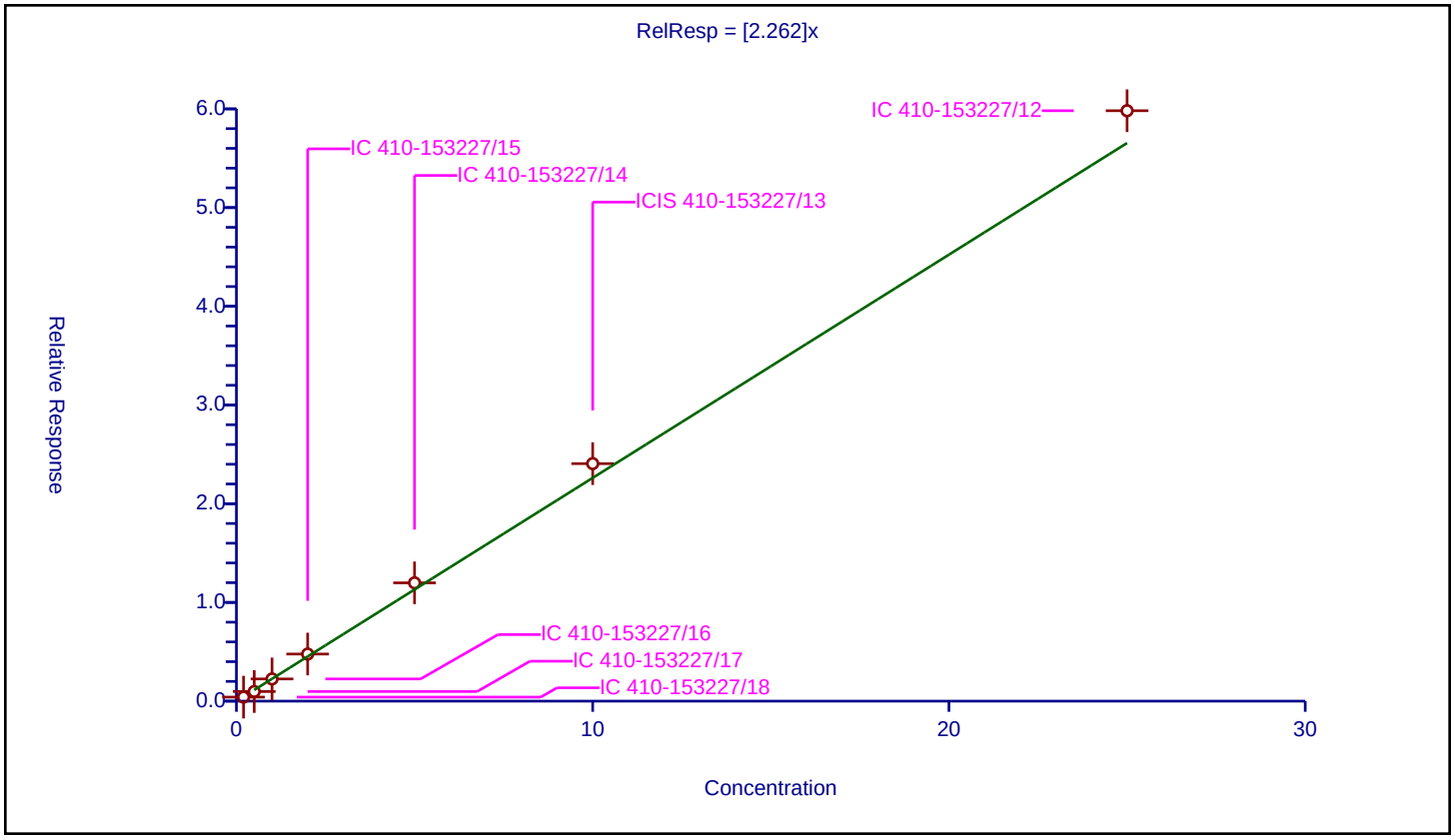
Curve Coefficients

Intercept:	0
Slope:	2.262

Error Coefficients

Standard Error:	2450000
Relative Standard Error:	8.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.409467	10.0	858555.0	2.047335	Y
2	IC 410-153227/17	0.5	0.976431	10.0	857900.0	1.952862	Y
3	IC 410-153227/16	1.0	2.249916	10.0	875966.0	2.249916	Y
4	IC 410-153227/15	2.0	4.771437	10.0	879209.0	2.385718	Y
5	IC 410-153227/14	5.0	11.985379	10.0	897174.0	2.397076	Y
6	ICIS 410-153227/13	10.0	24.062069	10.0	901681.0	2.406207	Y
7	IC 410-153227/12	25.0	59.81411	10.0	914789.0	2.392564	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

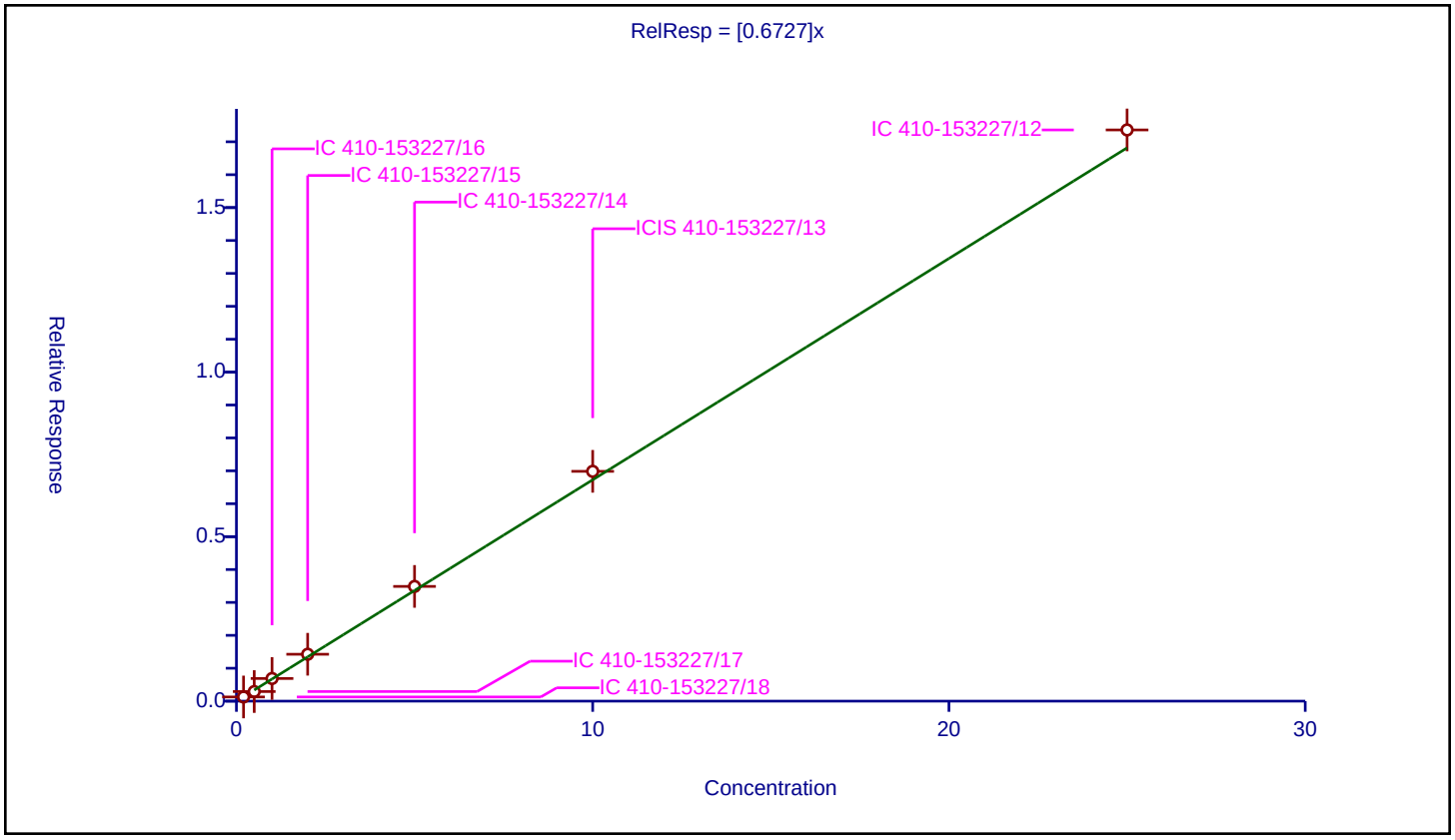
Curve Coefficients

Intercept:	0
Slope:	0.6727

Error Coefficients

Standard Error:	711000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.126725	10.0	858555.0	0.633623	Y
2	IC 410-153227/17	0.5	0.291829	10.0	857900.0	0.583658	Y
3	IC 410-153227/16	1.0	0.6886	10.0	875966.0	0.6886	Y
4	IC 410-153227/15	2.0	1.425088	10.0	879209.0	0.712544	Y
5	IC 410-153227/14	5.0	3.487049	10.0	897174.0	0.69741	Y
6	ICIS 410-153227/13	10.0	6.984388	10.0	901681.0	0.698439	Y
7	IC 410-153227/12	25.0	17.360714	10.0	914789.0	0.694429	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

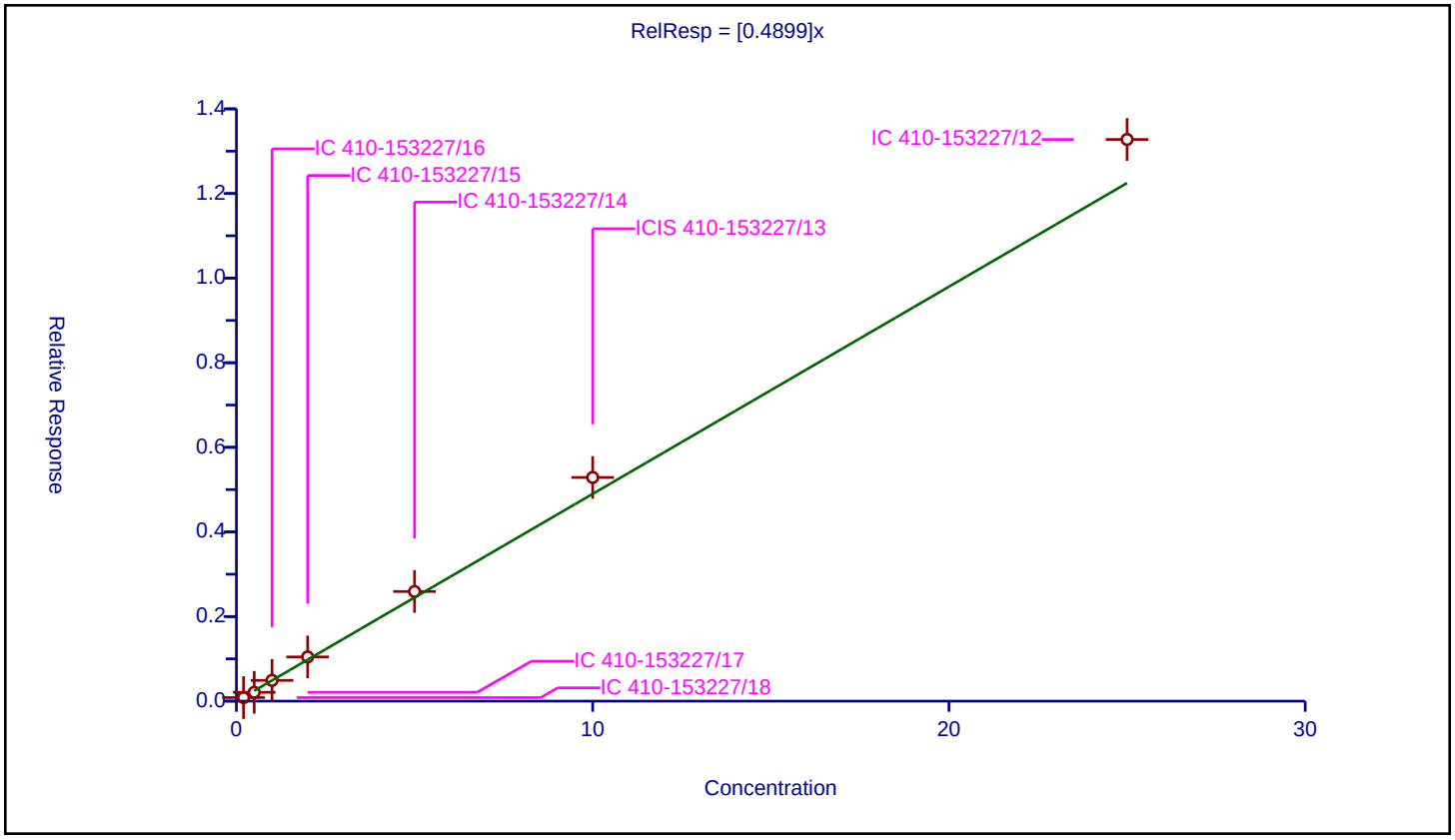
Curve Coefficients

Intercept:	0
Slope:	0.4899

Error Coefficients

Standard Error:	543000
Relative Standard Error:	10.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.084083	10.0	858555.0	0.420416	Y
2	IC 410-153227/17	0.5	0.208637	10.0	857900.0	0.417275	Y
3	IC 410-153227/16	1.0	0.490761	10.0	875966.0	0.490761	Y
4	IC 410-153227/15	2.0	1.04486	10.0	879209.0	0.52243	Y
5	IC 410-153227/14	5.0	2.591827	10.0	897174.0	0.518365	Y
6	ICIS 410-153227/13	10.0	5.28789	10.0	901681.0	0.528789	Y
7	IC 410-153227/12	25.0	13.277412	10.0	914789.0	0.531096	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

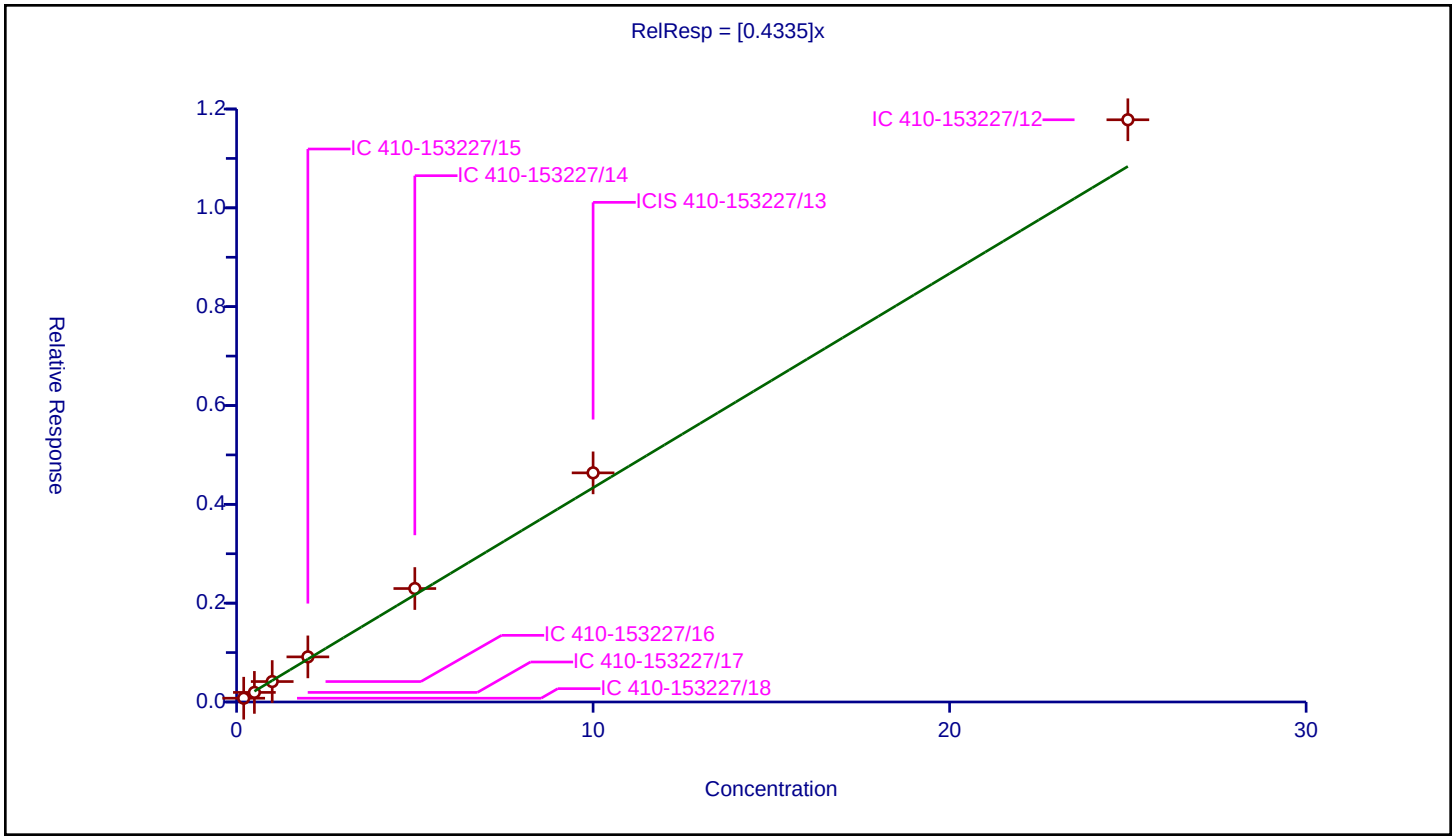
Curve Coefficients

Intercept:	0
Slope:	0.4335

Error Coefficients

Standard Error:	481000
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 410-153227/18	0.2	0.076559	10.0	858555.0	0.382794	Y
2	IC 410-153227/17	0.5	0.193915	10.0	857900.0	0.387831	Y
3	IC 410-153227/16	1.0	0.413509	10.0	875966.0	0.413509	Y
4	IC 410-153227/15	2.0	0.913002	10.0	879209.0	0.456501	Y
5	IC 410-153227/14	5.0	2.296032	10.0	897174.0	0.459206	Y
6	ICIS 410-153227/13	10.0	4.636961	10.0	901681.0	0.463696	Y
7	IC 410-153227/12	25.0	11.782662	10.0	914789.0	0.471306	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

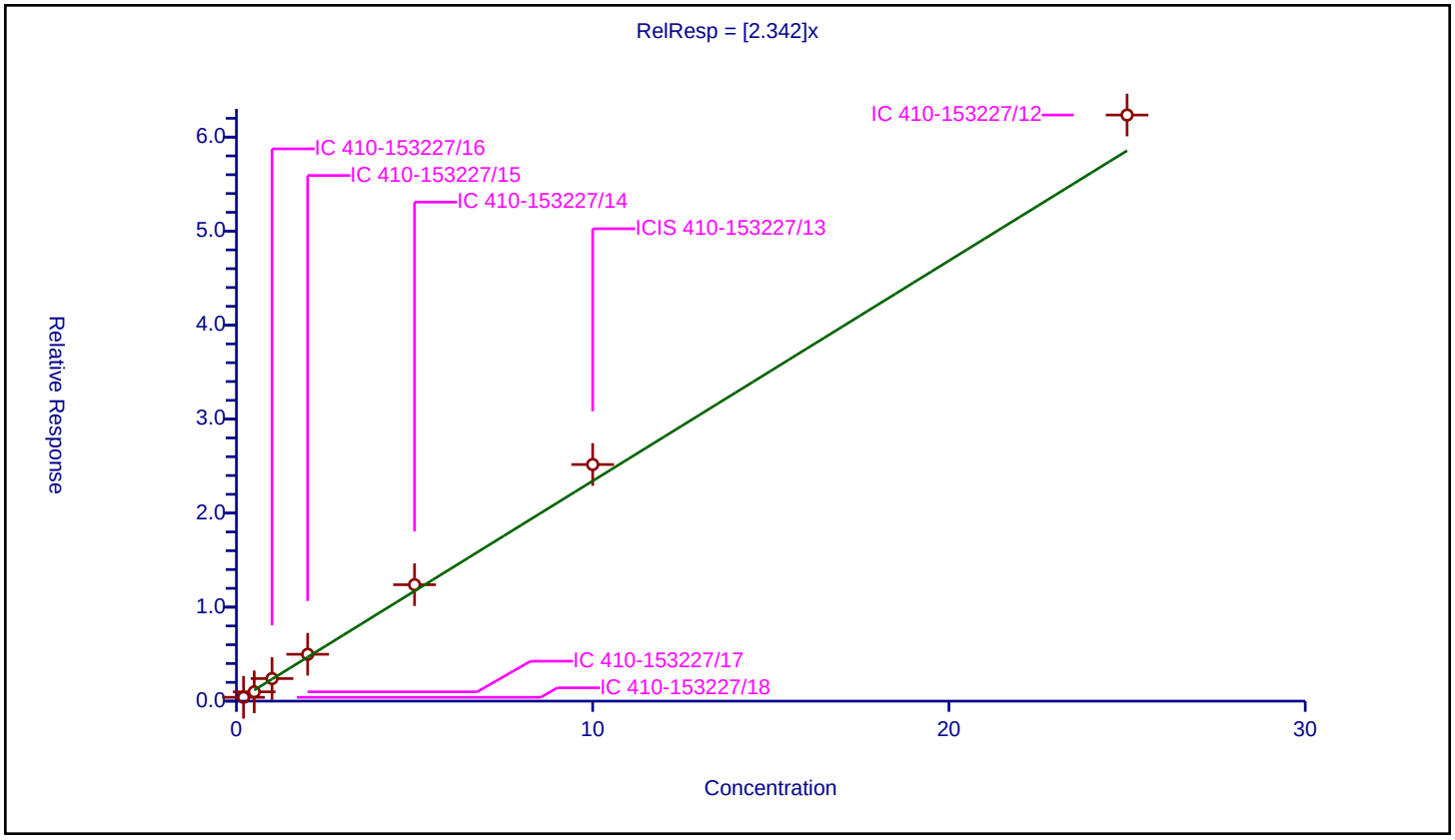
Curve Coefficients

Intercept:	0
Slope:	2.342

Error Coefficients

Standard Error:	2550000
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 410-153227/18	0.2	0.406043	10.0	858555.0	2.030214	Y
2	IC 410-153227/17	0.5	0.991572	10.0	857900.0	1.983145	Y
3	IC 410-153227/16	1.0	2.402502	10.0	875966.0	2.402502	Y
4	IC 410-153227/15	2.0	4.98464	10.0	879209.0	2.49232	Y
5	IC 410-153227/14	5.0	12.385769	10.0	897174.0	2.477154	Y
6	ICIS 410-153227/13	10.0	25.171086	10.0	901681.0	2.517109	Y
7	IC 410-153227/12	25.0	62.349307	10.0	914789.0	2.493972	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

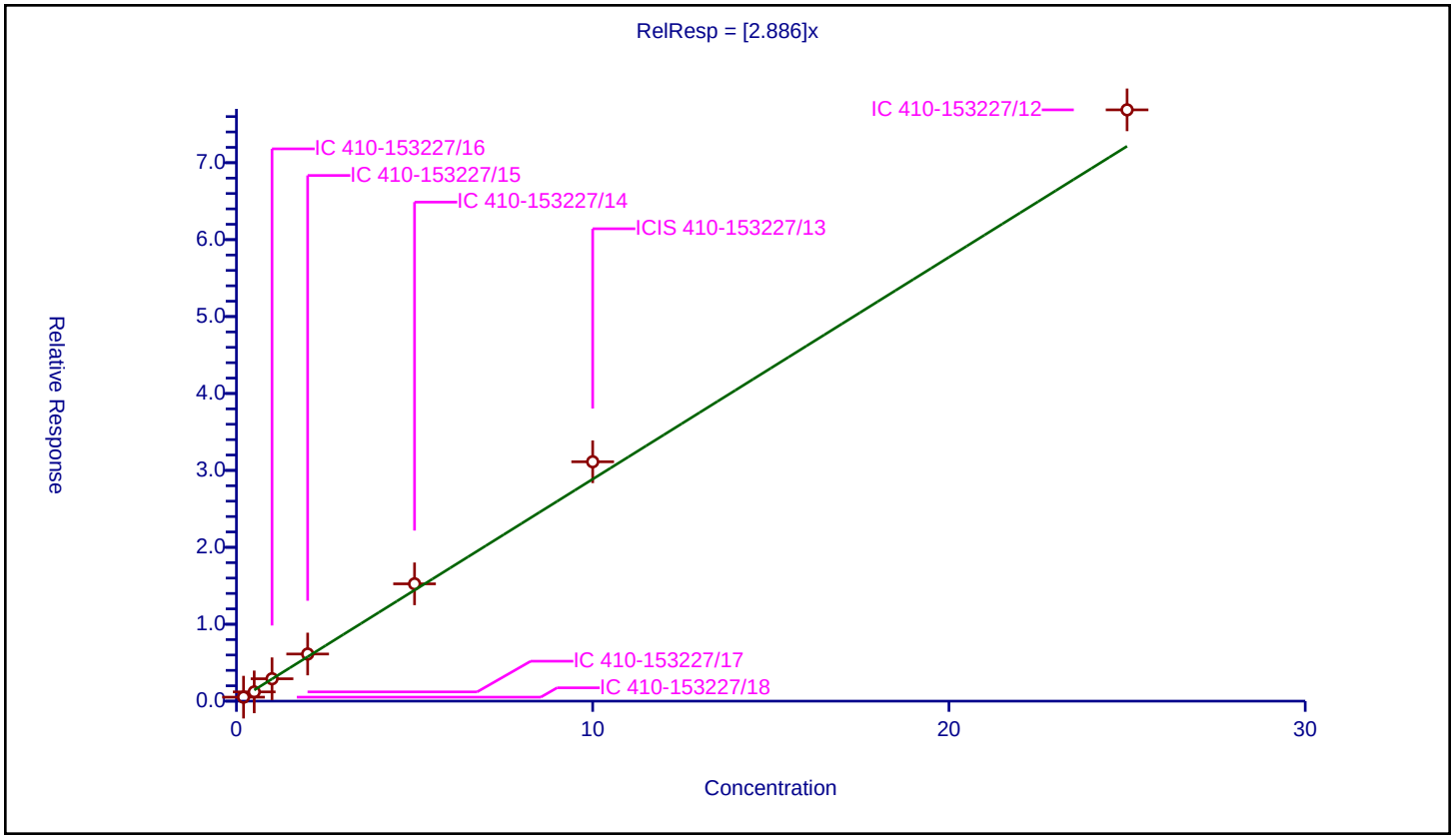
Curve Coefficients

Intercept:	0
Slope:	2.886

Error Coefficients

Standard Error:	3150000
Relative Standard Error:	9.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.516391	10.0	858555.0	2.581955	Y
2	IC 410-153227/17	0.5	1.203275	10.0	857900.0	2.406551	Y
3	IC 410-153227/16	1.0	2.911038	10.0	875966.0	2.911038	Y
4	IC 410-153227/15	2.0	6.128213	10.0	879209.0	3.064106	Y
5	IC 410-153227/14	5.0	15.253217	10.0	897174.0	3.050643	Y
6	ICIS 410-153227/13	10.0	31.120962	10.0	901681.0	3.112096	Y
7	IC 410-153227/12	25.0	76.875749	10.0	914789.0	3.07503	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

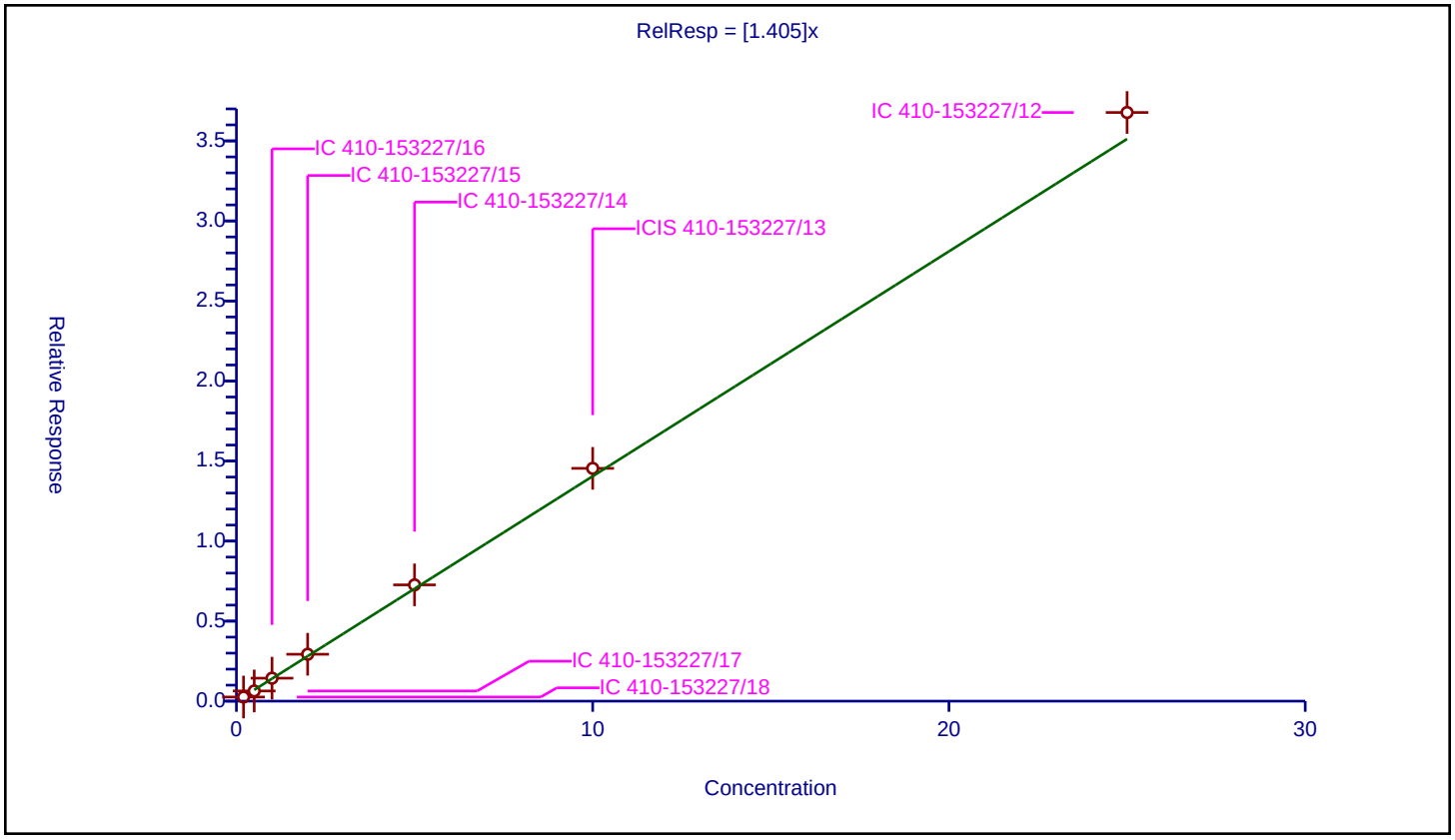
Curve Coefficients

Intercept:	0
Slope:	1.405

Error Coefficients

Standard Error:	1500000
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 410-153227/18	0.2	0.256326	10.0	858555.0	1.28163	Y
2	IC 410-153227/17	0.5	0.637091	10.0	857900.0	1.274181	Y
3	IC 410-153227/16	1.0	1.435604	10.0	875966.0	1.435604	Y
4	IC 410-153227/15	2.0	2.929451	10.0	879209.0	1.464726	Y
5	IC 410-153227/14	5.0	7.263652	10.0	897174.0	1.45273	Y
6	ICIS 410-153227/13	10.0	14.542992	10.0	901681.0	1.454299	Y
7	IC 410-153227/12	25.0	36.775956	10.0	914789.0	1.471038	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

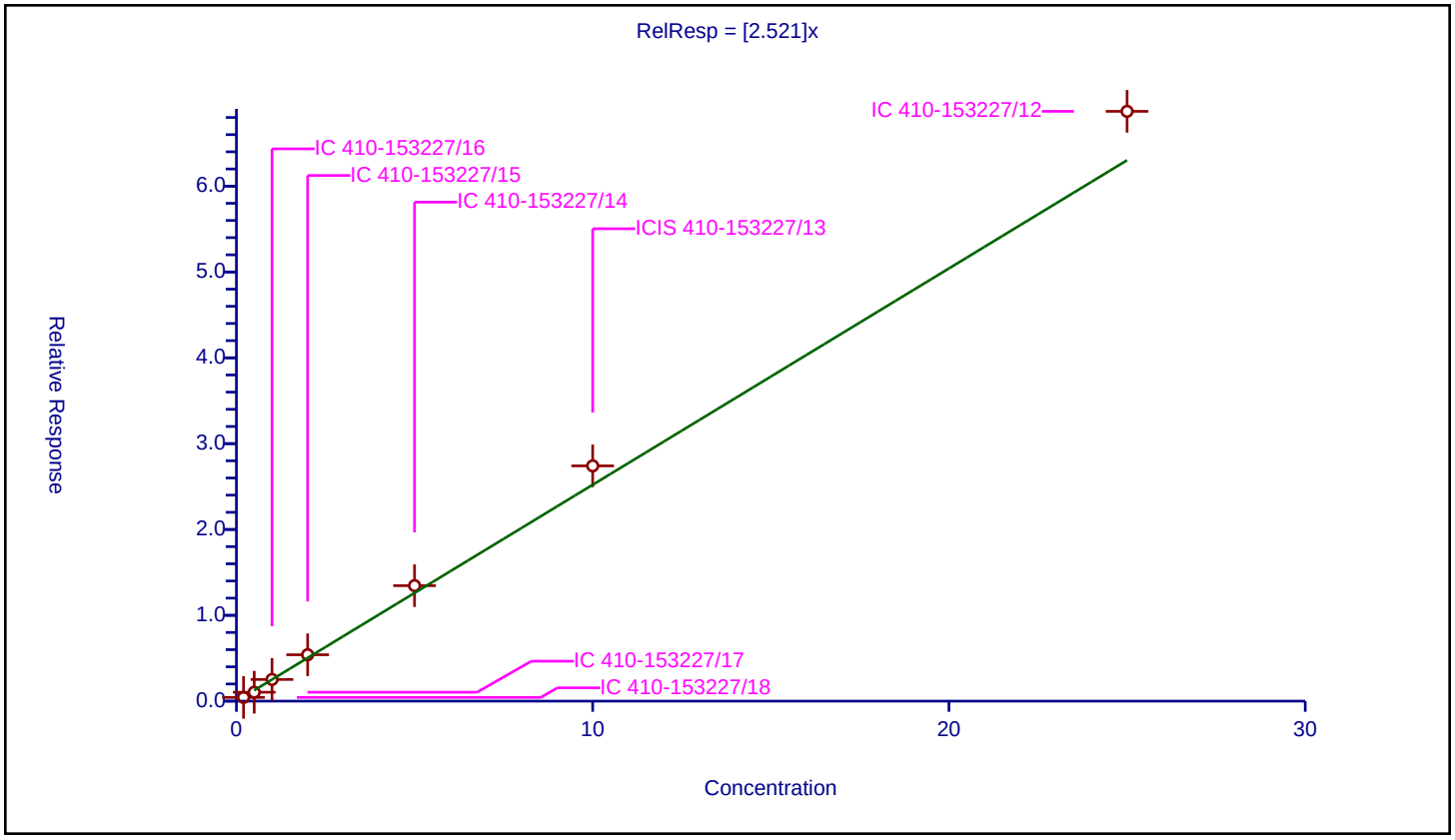
Curve Coefficients

Intercept:	0
Slope:	2.521

Error Coefficients

Standard Error:	2810000
Relative Standard Error:	11.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.432145	10.0	858555.0	2.160724	Y
2	IC 410-153227/17	0.5	1.037615	10.0	857900.0	2.07523	Y
3	IC 410-153227/16	1.0	2.525703	10.0	875966.0	2.525703	Y
4	IC 410-153227/15	2.0	5.40537	10.0	879209.0	2.702685	Y
5	IC 410-153227/14	5.0	13.453355	10.0	897174.0	2.690671	Y
6	ICIS 410-153227/13	10.0	27.411468	10.0	901681.0	2.741147	Y
7	IC 410-153227/12	25.0	68.714971	10.0	914789.0	2.748599	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

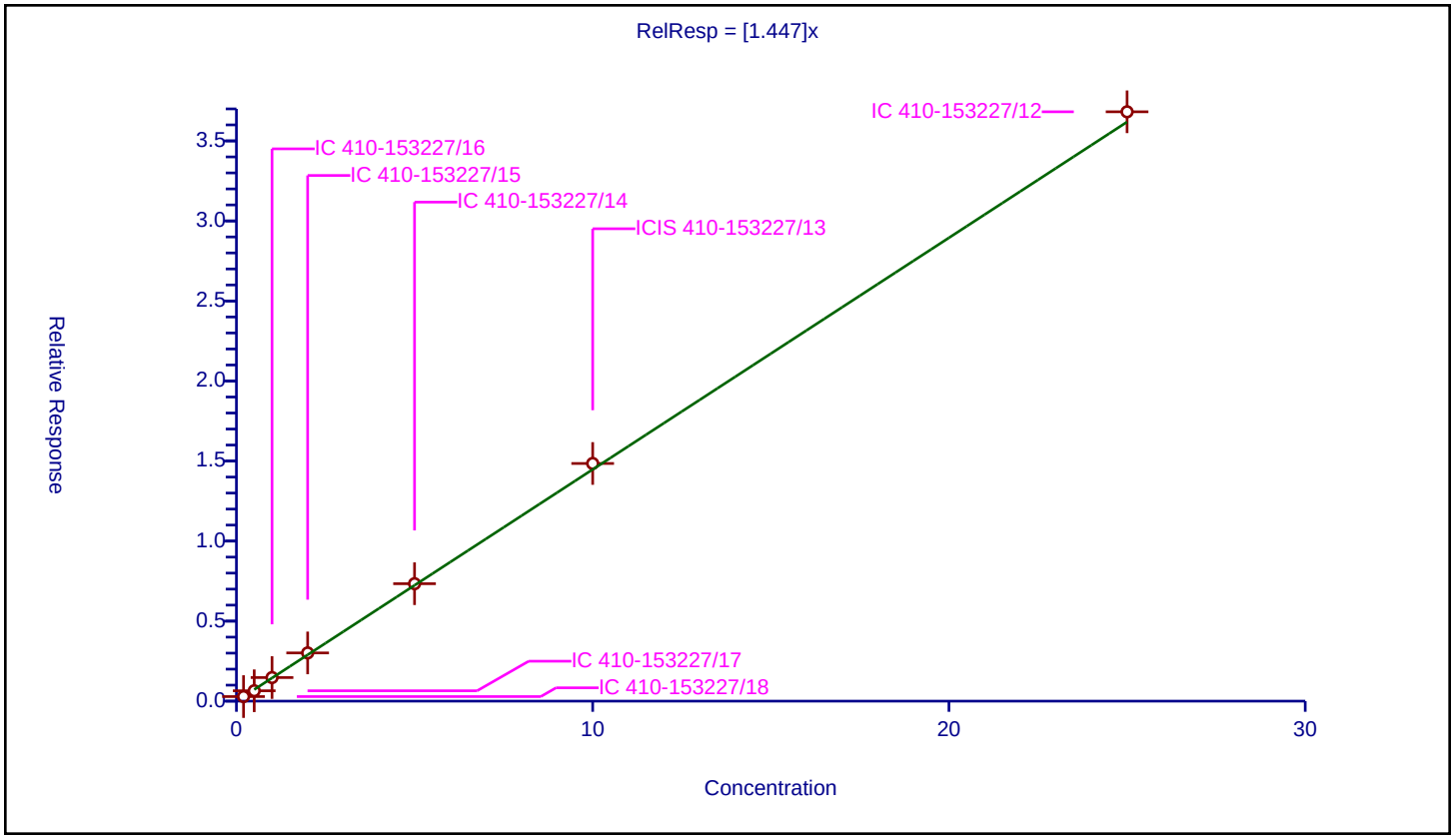
Curve Coefficients

Intercept:	0
Slope:	1.447

Error Coefficients

Standard Error:	1510000
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 410-153227/18	0.2	0.285922	10.0	858555.0	1.429611	Y
2	IC 410-153227/17	0.5	0.648898	10.0	857900.0	1.297797	Y
3	IC 410-153227/16	1.0	1.47282	10.0	875966.0	1.47282	Y
4	IC 410-153227/15	2.0	3.012446	10.0	879209.0	1.506223	Y
5	IC 410-153227/14	5.0	7.337874	10.0	897174.0	1.467575	Y
6	ICIS 410-153227/13	10.0	14.847712	10.0	901681.0	1.484771	Y
7	IC 410-153227/12	25.0	36.818469	10.0	914789.0	1.472739	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

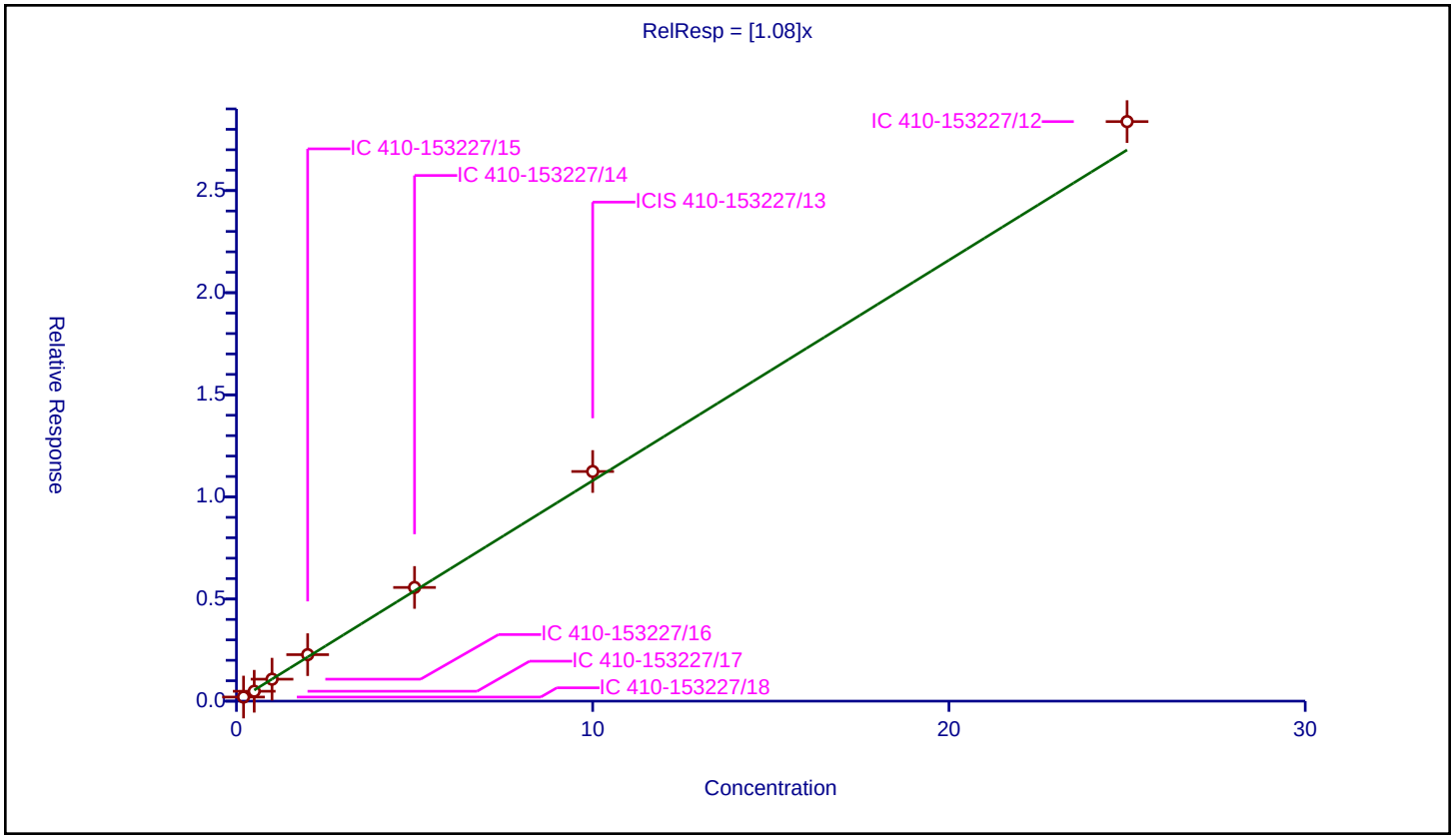
Curve Coefficients

Intercept:	0
Slope:	1.08

Error Coefficients

Standard Error:	1160000
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 410-153227/18	0.2	0.200465	10.0	858555.0	1.002324	Y
2	IC 410-153227/17	0.5	0.484975	10.0	857900.0	0.96995	Y
3	IC 410-153227/16	1.0	1.074676	10.0	875966.0	1.074676	Y
4	IC 410-153227/15	2.0	2.275909	10.0	879209.0	1.137955	Y
5	IC 410-153227/14	5.0	5.56639	10.0	897174.0	1.113278	Y
6	ICIS 410-153227/13	10.0	11.244775	10.0	901681.0	1.124478	Y
7	IC 410-153227/12	25.0	28.378544	10.0	914789.0	1.135142	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

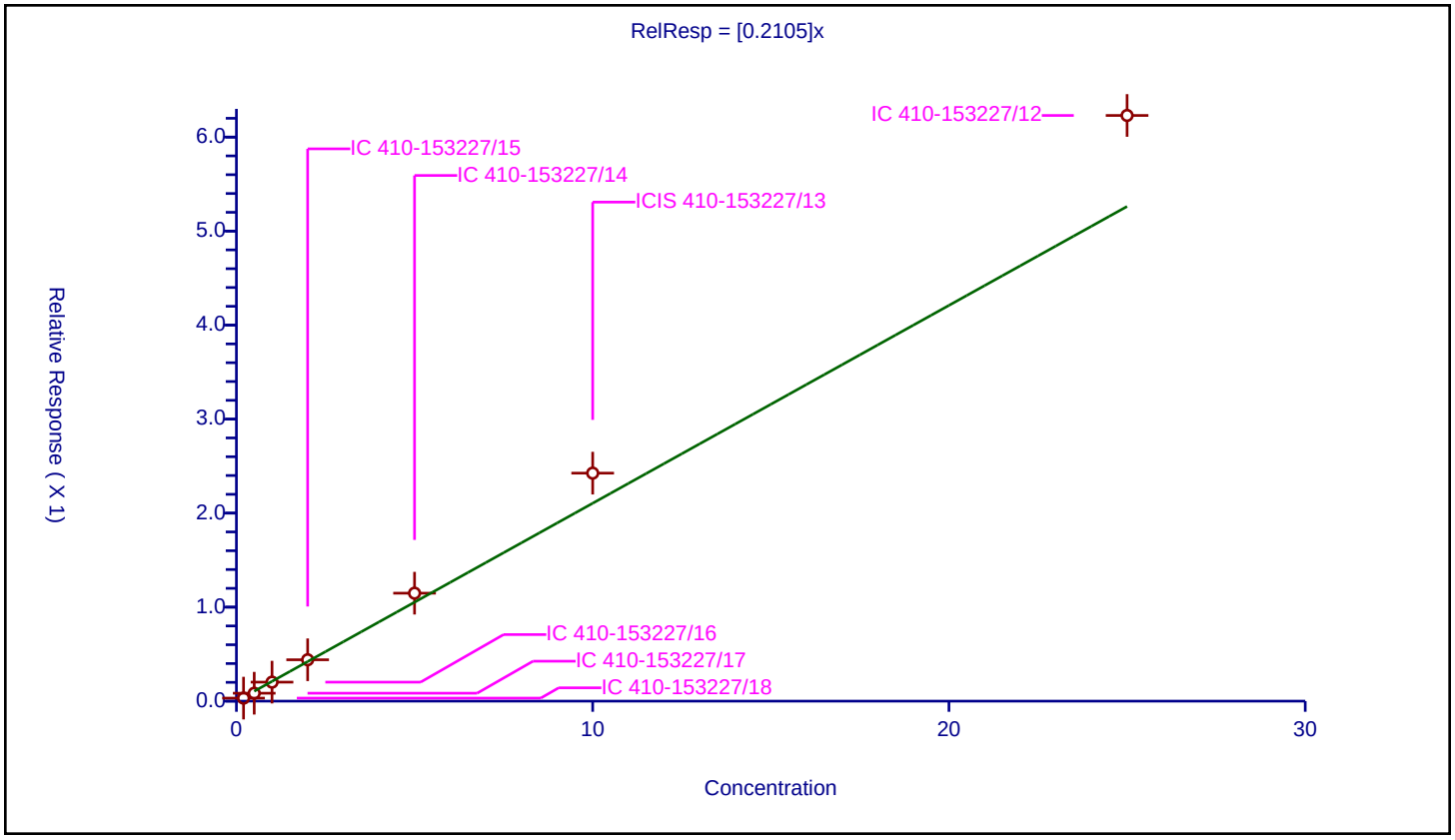
Curve Coefficients

Intercept:	0
Slope:	0.2105

Error Coefficients

Standard Error:	253000
Relative Standard Error:	16.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.03224	10.0	858555.0	0.161201	Y
2	IC 410-153227/17	0.5	0.084299	10.0	857900.0	0.168598	Y
3	IC 410-153227/16	1.0	0.202131	10.0	875966.0	0.202131	Y
4	IC 410-153227/15	2.0	0.440123	10.0	879209.0	0.220061	Y
5	IC 410-153227/14	5.0	1.148406	10.0	897174.0	0.229681	Y
6	ICIS 410-153227/13	10.0	2.425448	10.0	901681.0	0.242545	Y
7	IC 410-153227/12	25.0	6.230016	10.0	914789.0	0.249201	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

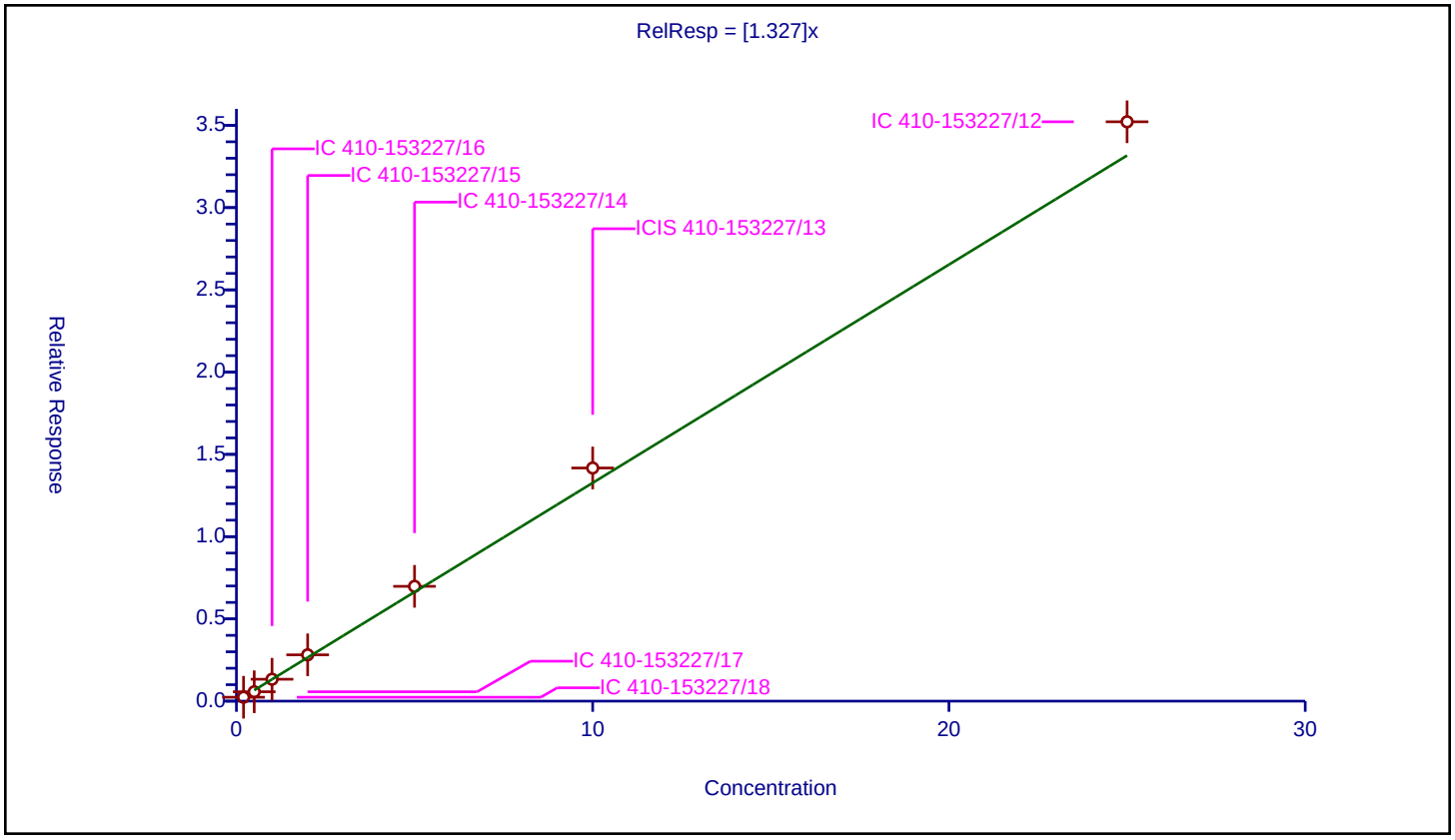
Curve Coefficients

Intercept:	0
Slope:	1.327

Error Coefficients

Standard Error:	1440000
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 410-153227/18	0.2	0.237247	10.0	858555.0	1.186237	Y
2	IC 410-153227/17	0.5	0.570218	10.0	857900.0	1.140436	Y
3	IC 410-153227/16	1.0	1.33189	10.0	875966.0	1.33189	Y
4	IC 410-153227/15	2.0	2.813916	10.0	879209.0	1.406958	Y
5	IC 410-153227/14	5.0	6.978312	10.0	897174.0	1.395662	Y
6	ICIS 410-153227/13	10.0	14.170832	10.0	901681.0	1.417083	Y
7	IC 410-153227/12	25.0	35.216143	10.0	914789.0	1.408646	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

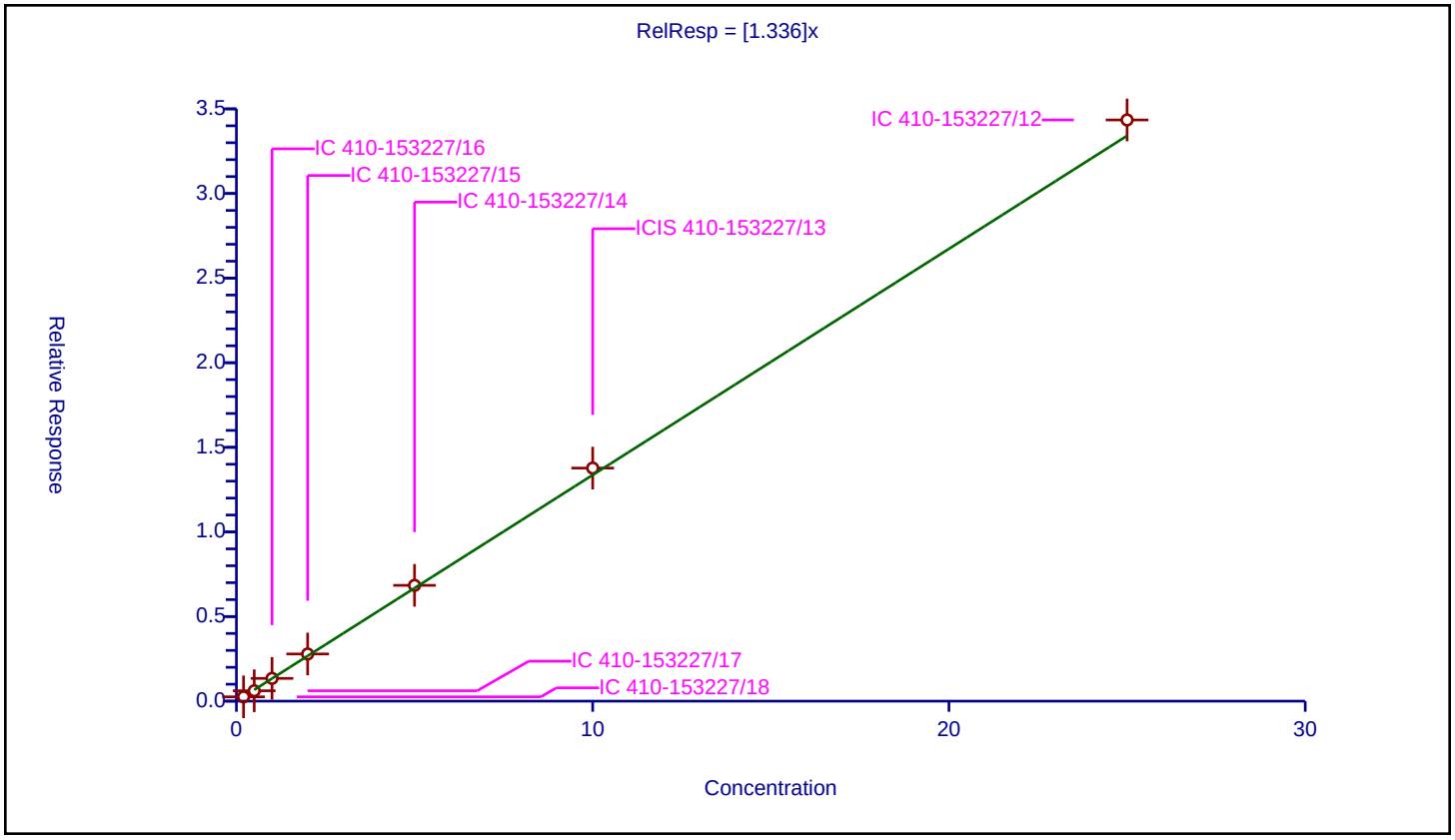
Curve Coefficients

Intercept:	0
Slope:	1.336

Error Coefficients

Standard Error:	1410000
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 410-153227/18	0.2	0.254416	10.0	858555.0	1.272079	Y
2	IC 410-153227/17	0.5	0.612554	10.0	857900.0	1.225108	Y
3	IC 410-153227/16	1.0	1.345052	10.0	875966.0	1.345052	Y
4	IC 410-153227/15	2.0	2.787176	10.0	879209.0	1.393588	Y
5	IC 410-153227/14	5.0	6.842575	10.0	897174.0	1.368515	Y
6	ICIS 410-153227/13	10.0	13.773097	10.0	901681.0	1.37731	Y
7	IC 410-153227/12	25.0	34.345614	10.0	914789.0	1.373825	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

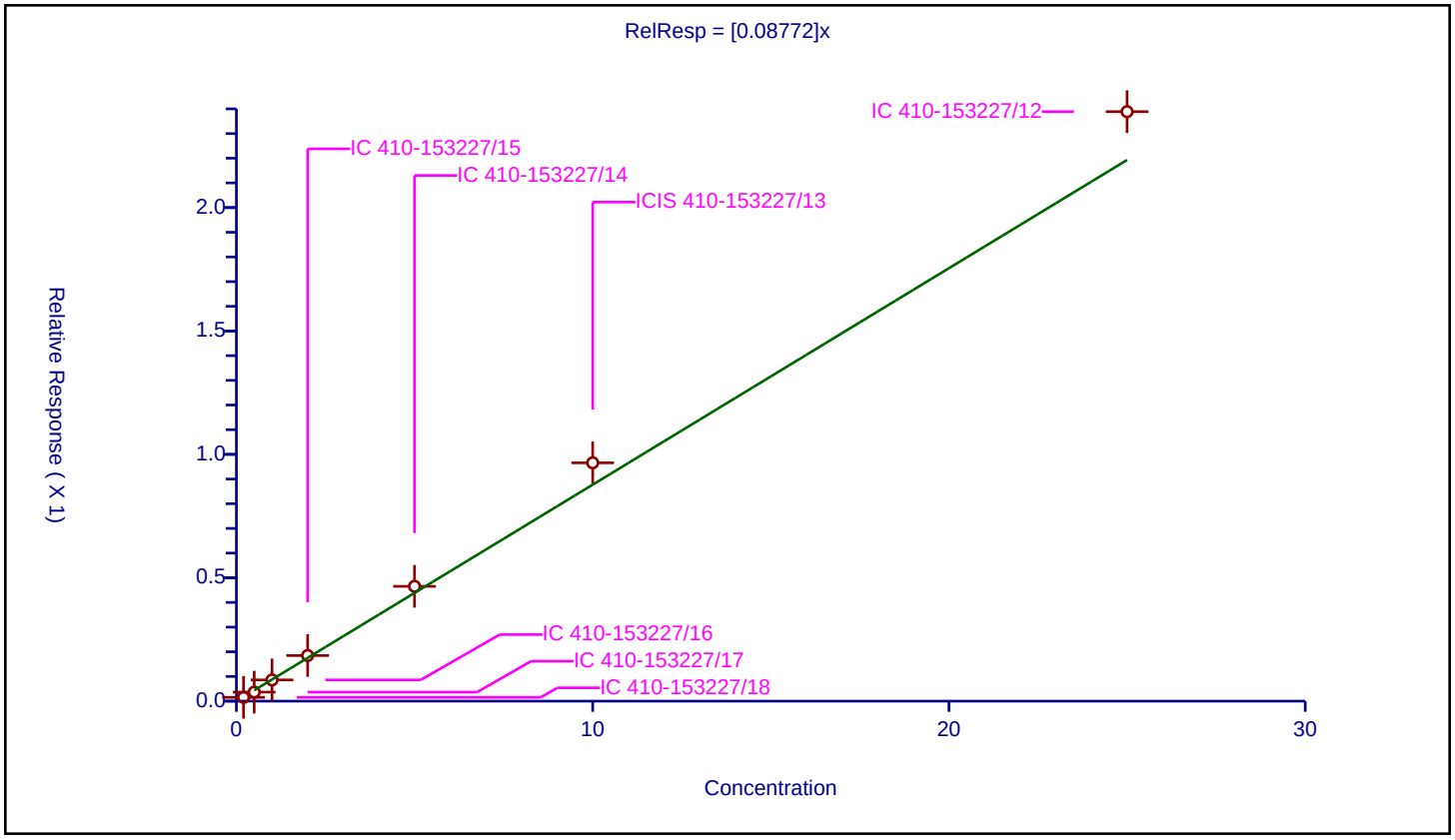
Curve Coefficients

Intercept:	0
Slope:	0.08772

Error Coefficients

Standard Error:	97800
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 410-153227/18	0.2	0.015433	10.0	858555.0	0.077165	Y
2	IC 410-153227/17	0.5	0.036659	10.0	857900.0	0.073319	Y
3	IC 410-153227/16	1.0	0.085962	10.0	875966.0	0.085962	Y
4	IC 410-153227/15	2.0	0.184814	10.0	879209.0	0.092407	Y
5	IC 410-153227/14	5.0	0.465272	10.0	897174.0	0.093054	Y
6	ICIS 410-153227/13	10.0	0.965707	10.0	901681.0	0.096571	Y
7	IC 410-153227/12	25.0	2.388748	10.0	914789.0	0.09555	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

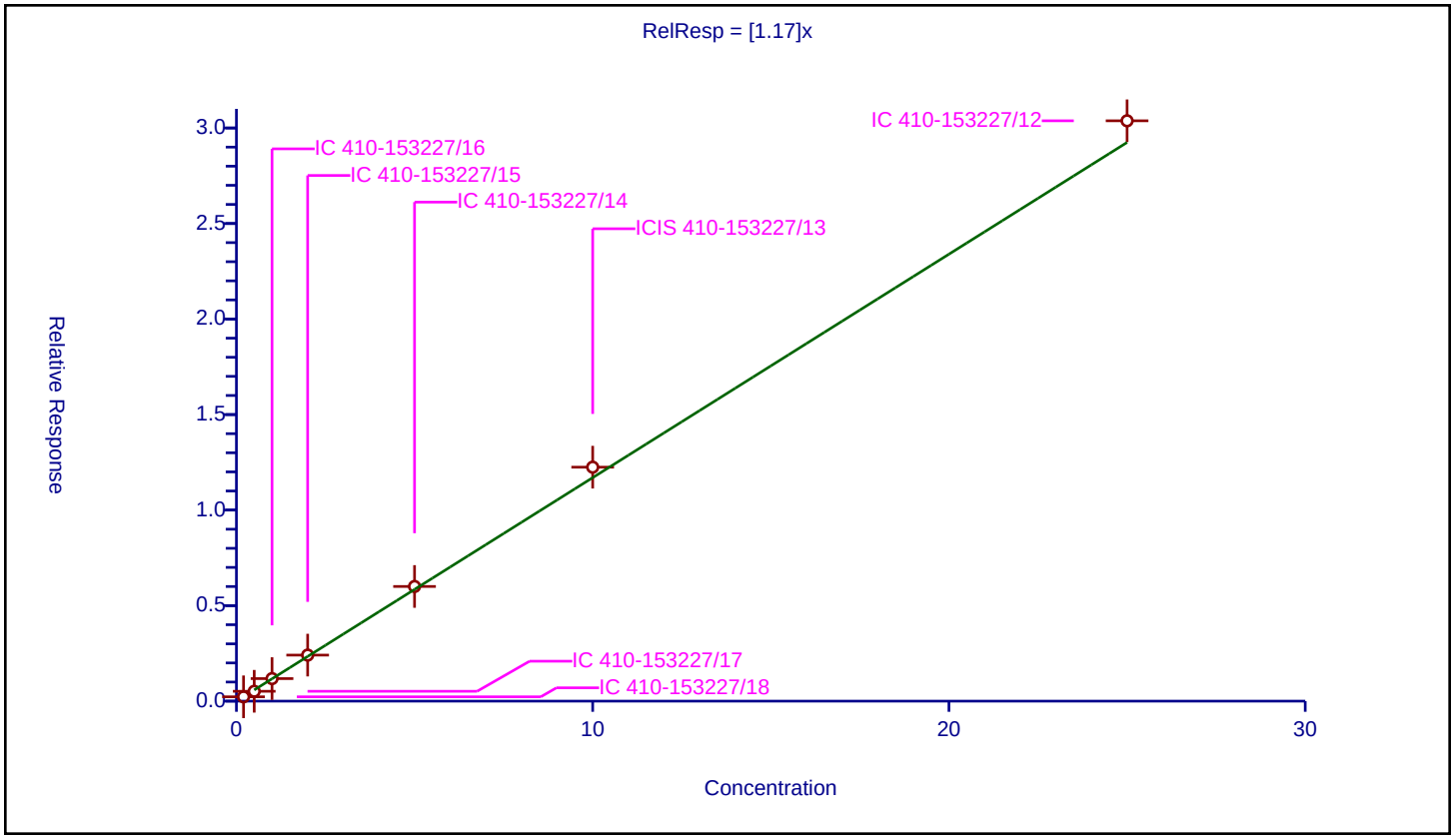
Curve Coefficients

Intercept:	0
Slope:	1.17

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 410-153227/18	0.2	0.225996	10.0	858555.0	1.12998	Y
2	IC 410-153227/17	0.5	0.516284	10.0	857900.0	1.032568	Y
3	IC 410-153227/16	1.0	1.180628	10.0	875966.0	1.180628	Y
4	IC 410-153227/15	2.0	2.410383	10.0	879209.0	1.205191	Y
5	IC 410-153227/14	5.0	6.00198	10.0	897174.0	1.200396	Y
6	ICIS 410-153227/13	10.0	12.24646	10.0	901681.0	1.224646	Y
7	IC 410-153227/12	25.0	30.376513	10.0	914789.0	1.215061	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

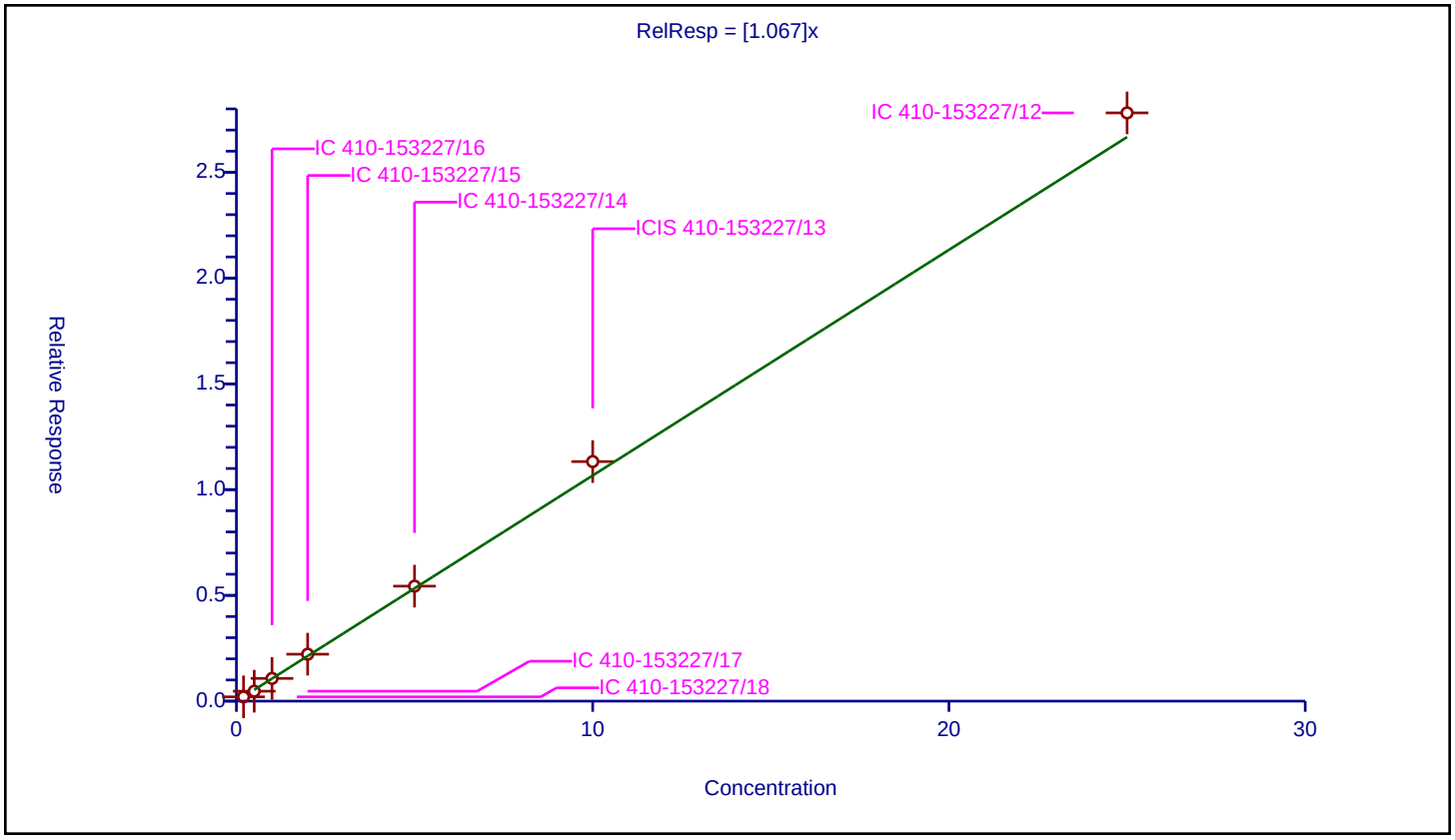
Curve Coefficients

Intercept:	0
Slope:	1.067

Error Coefficients

Standard Error:	1140000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.20213	10.0	858555.0	1.010652	Y
2	IC 410-153227/17	0.5	0.470078	10.0	857900.0	0.940156	Y
3	IC 410-153227/16	1.0	1.074323	10.0	875966.0	1.074323	Y
4	IC 410-153227/15	2.0	2.219222	10.0	879209.0	1.109611	Y
5	IC 410-153227/14	5.0	5.437106	10.0	897174.0	1.087421	Y
6	ICIS 410-153227/13	10.0	11.326068	10.0	901681.0	1.132607	Y
7	IC 410-153227/12	25.0	27.81073	10.0	914789.0	1.112429	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

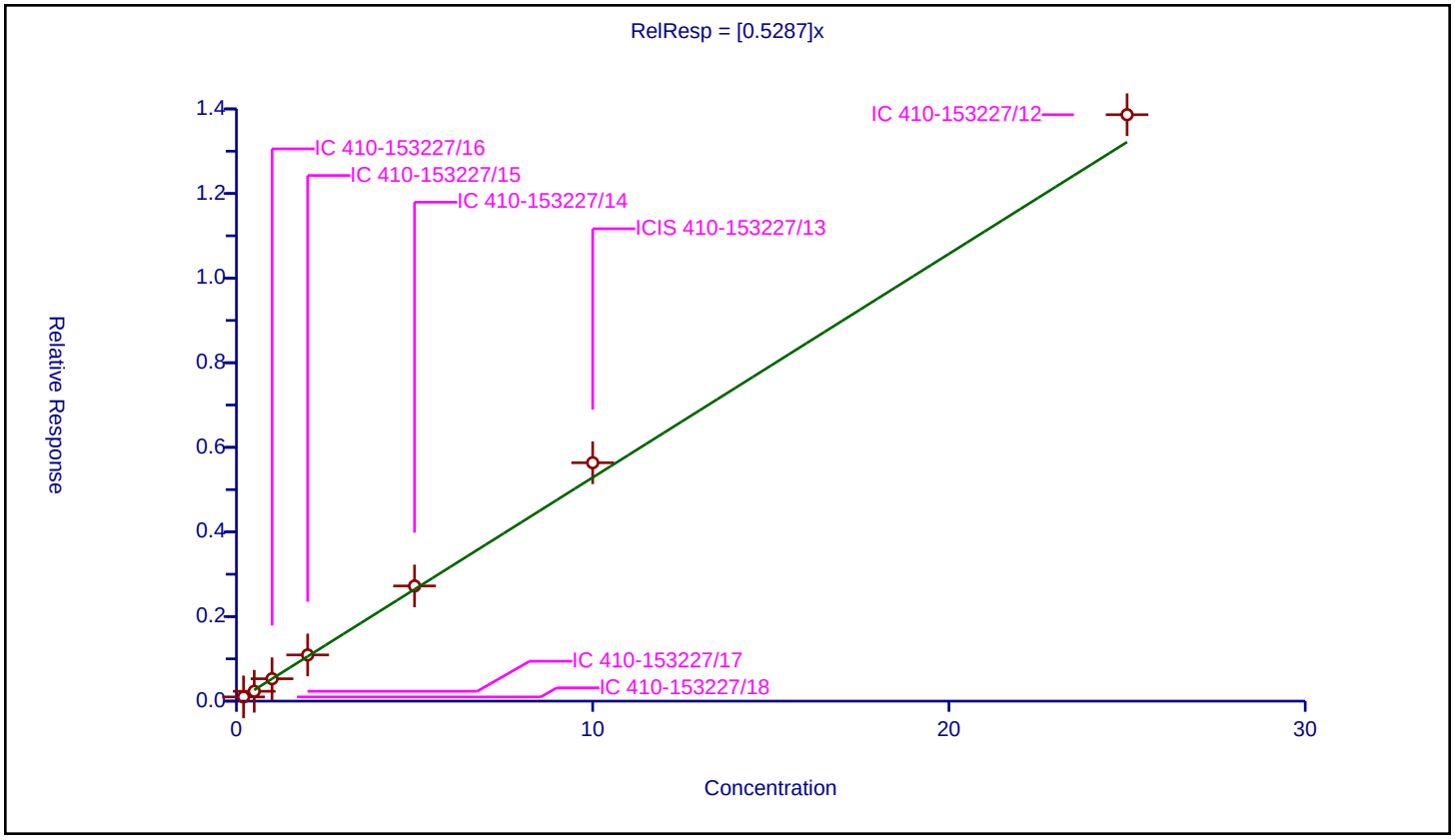
Curve Coefficients

Intercept:	0
Slope:	0.5287

Error Coefficients

Standard Error:	568000
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 410-153227/18	0.2	0.099132	10.0	858555.0	0.495658	Y
2	IC 410-153227/17	0.5	0.233559	10.0	857900.0	0.467117	Y
3	IC 410-153227/16	1.0	0.529164	10.0	875966.0	0.529164	Y
4	IC 410-153227/15	2.0	1.092209	10.0	879209.0	0.546105	Y
5	IC 410-153227/14	5.0	2.722649	10.0	897174.0	0.54453	Y
6	ICIS 410-153227/13	10.0	5.636029	10.0	901681.0	0.563603	Y
7	IC 410-153227/12	25.0	13.862825	10.0	914789.0	0.554513	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

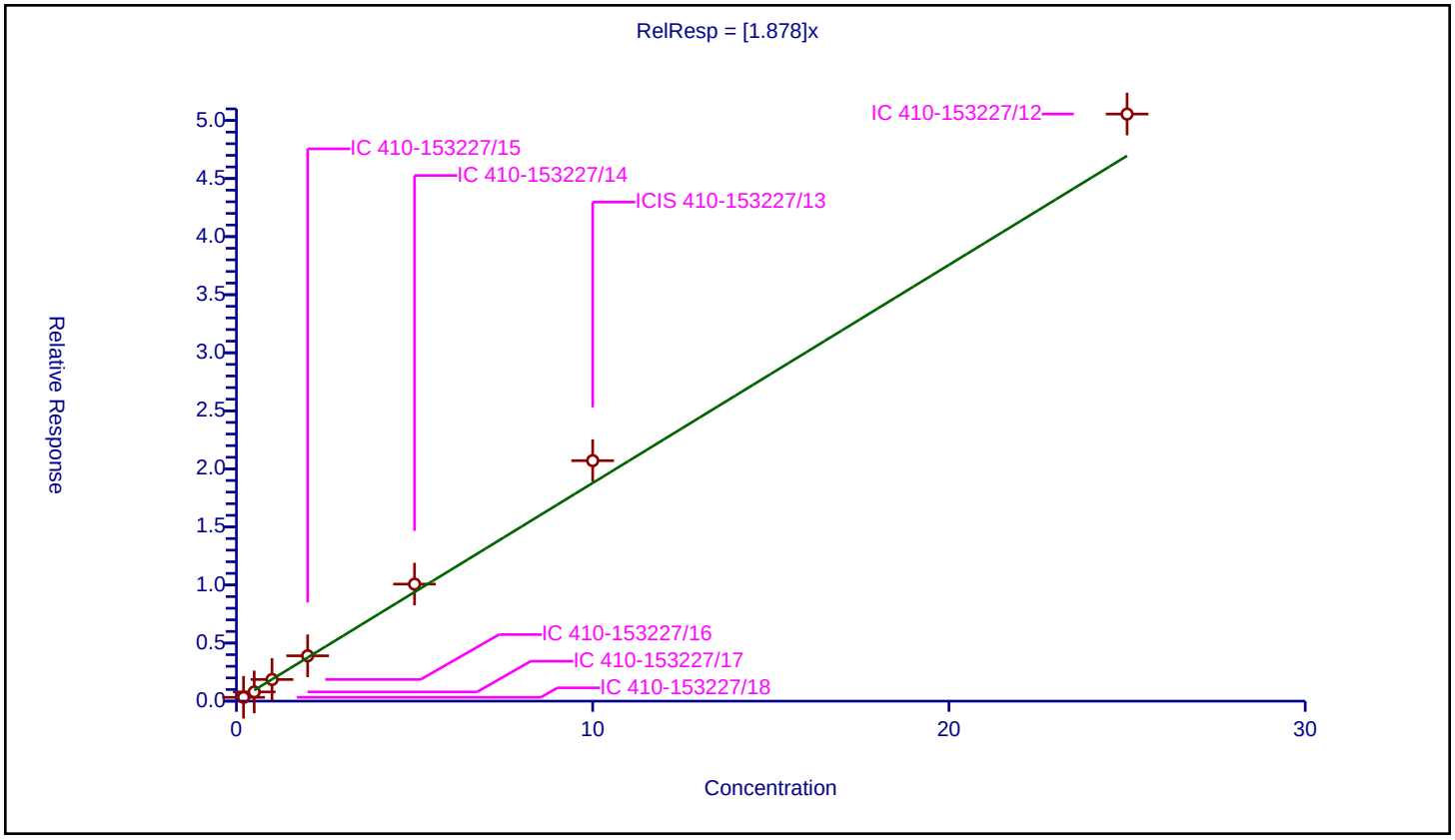
Curve Coefficients

Intercept:	0
Slope:	1.878

Error Coefficients

Standard Error:	2080000
Relative Standard Error:	10.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-153227/18	0.2	0.326642	10.0	858555.0	1.633209	Y
2	IC 410-153227/17	0.5	0.794964	10.0	857900.0	1.589929	Y
3	IC 410-153227/16	1.0	1.864445	10.0	875966.0	1.864445	Y
4	IC 410-153227/15	2.0	3.904566	10.0	879209.0	1.952283	Y
5	IC 410-153227/14	5.0	10.077755	10.0	897174.0	2.015551	Y
6	ICIS 410-153227/13	10.0	20.708277	10.0	901681.0	2.070828	Y
7	IC 410-153227/12	25.0	50.553986	10.0	914789.0	2.022159	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

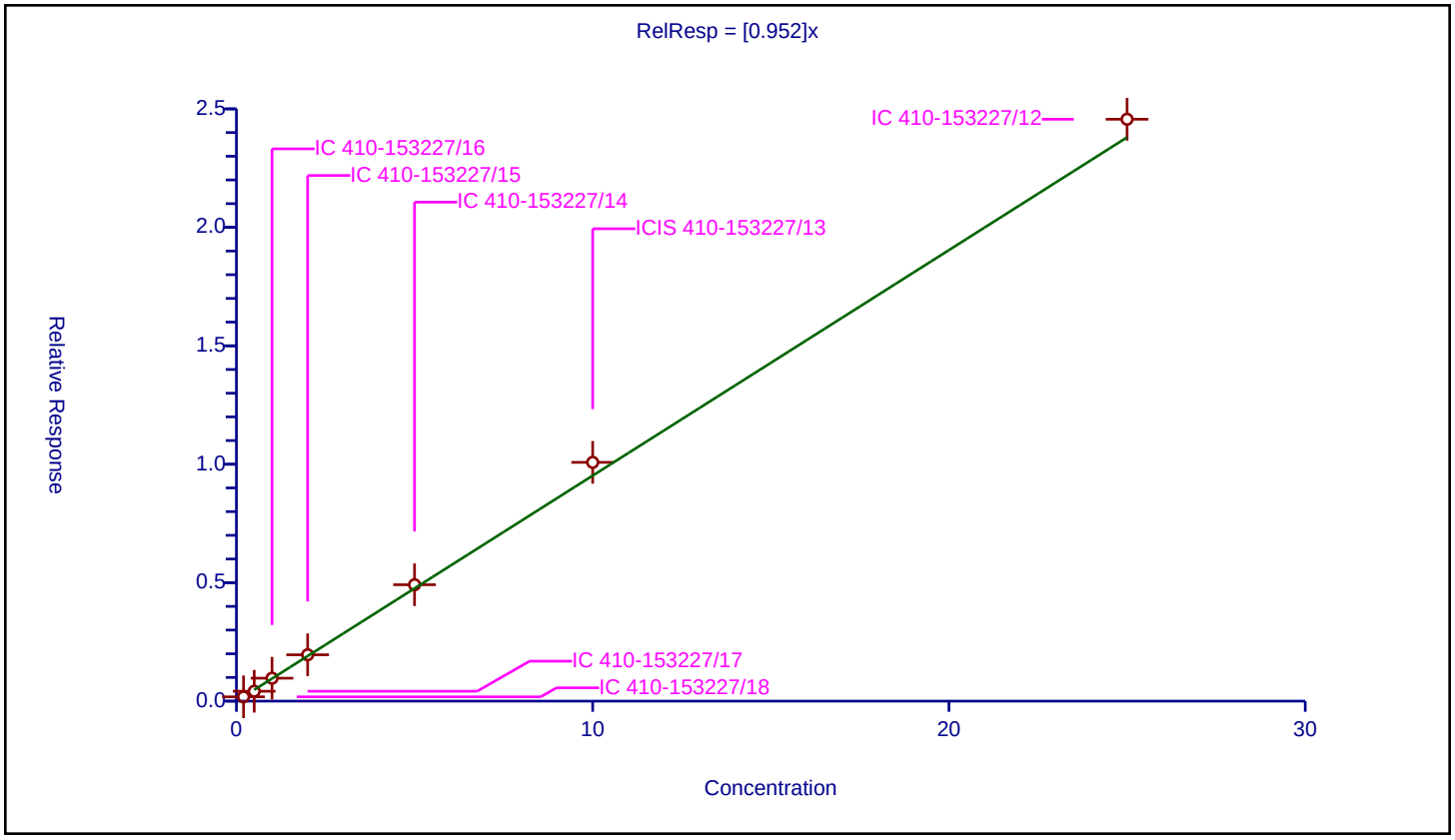
Curve Coefficients

Intercept:	0
Slope:	0.952

Error Coefficients

Standard Error:	1010000
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 410-153227/18	0.2	0.181631	10.0	858555.0	0.908154	Y
2	IC 410-153227/17	0.5	0.417799	10.0	857900.0	0.835599	Y
3	IC 410-153227/16	1.0	0.968405	10.0	875966.0	0.968405	Y
4	IC 410-153227/15	2.0	1.95677	10.0	879209.0	0.978385	Y
5	IC 410-153227/14	5.0	4.913763	10.0	897174.0	0.982753	Y
6	ICIS 410-153227/13	10.0	10.080206	10.0	901681.0	1.008021	Y
7	IC 410-153227/12	25.0	24.562331	10.0	914789.0	0.982493	Y



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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1 Analy Batch No.: 163707

SDG No.:

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

Calibration Start Date: 08/24/2021 00:45 Calibration End Date: 08/24/2021 02:52 Calibration ID: 29976

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-163707/18	IG23I07.D
Level 2	IC 410-163707/17	IG23I06.D
Level 3	IC 410-163707/16	IG23I05.D
Level 4	IC 410-163707/15	IG23I04.D
Level 5	IC 410-163707/14	IG23I03.D
Level 6	ICIS 410-163707/13	IG23I02.D
Level 7	IC 410-163707/12	IG23I01.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	+++++ 0.3627	0.1956 0.3416	0.3040	0.3114	0.3614	Ave		0.3128			0.1000	20.0		20.0			
Chloromethane	0.3737 0.3692	0.3520 0.3545	0.3277	0.3398	0.3774	Ave		0.3563			0.1000	5.2		20.0			
1,3-Butadiene	0.3583 0.3381	0.2781 0.3239	0.3216	0.3194	0.3521	Ave		0.3273				8.1		20.0			
Vinyl chloride	0.3684 0.3847	0.3183 0.3656	0.3364	0.3472	0.3941	Ave		0.3592			0.1000	7.5		20.0			
Bromomethane	0.2807 0.2701	0.2528 0.2477	0.2440	0.2517	0.2754	Ave		0.2603			0.1000	5.6		20.0			
Chloroethane	0.2262 0.2246	0.2056 0.2112	0.2036	0.2037	0.2325	Ave		0.2153			0.1000	5.6		20.0			
Dichlorofluoromethane	0.5615 0.5385	0.4859 0.5023	0.4850	0.4979	0.5538	Ave		0.5179			0.1000	6.3		20.0			
Trichlorofluoromethane	0.4066 0.5339	0.3297 0.4864	0.4638	0.4671	0.5530	Ave		0.4629			0.1000	16.4		20.0			
Ethyl ether	0.1835 0.2078	0.1655 0.1915	0.1744	0.1885	0.2053	Ave		0.1881				8.2		20.0			
Freon 123a	0.3286 0.3668	0.2778 0.3340	0.3179	0.3278	0.3686	Ave		0.3316				9.3		20.0			
Acrolein	2.0754 2.1510	2.0273 2.2464	2.2746	1.9732	2.5490	Ave		2.1853				8.9		20.0			
1,1-Dichloroethene	0.2236 0.2614	0.2129 0.2407	0.2396	0.2214	0.2711	Ave		0.2387			0.1000	9.0		20.0			
Acetone	3.3948 2.6081	2.6279 2.6013	2.5719	2.6885	2.9507	Ave		2.7776			0.1000	10.8		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.: 410-64660-1 Analy Batch No.: 163707

SDG No.:

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

Calibration Start Date: 08/24/2021 00:45 Calibration End Date: 08/24/2021 02:52 Calibration ID: 29976

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	0.1793 0.2949	0.1939 0.2778	0.2561	0.2365	0.3061	Ave		0.2492			0.1000	19.6		20.0			
Methyl iodide	0.4365 0.5164	0.4581 0.4791	0.4744	0.4472	0.5281	Ave		0.4771				7.2		20.0			
Carbon disulfide	0.6241 0.7230	0.6085 0.6809	0.6272	0.6081	0.7397	Ave		0.6588			0.1000	8.4		20.0			
Methyl acetate	10.223 7.9164	6.6486 7.6664	7.2485	8.2644	9.2657	Ave		8.1762			0.1000	14.9		20.0			
Allyl chloride	0.4039 0.4122	0.3756 0.3872	0.3811	0.3562	0.4244	Ave		0.3915				6.0		20.0			
Methylene Chloride	0.2524 0.2798	0.2487 0.2570	0.2549	0.2470	0.2837	Ave		0.2605			0.1000	5.7		20.0			
t-Butyl alcohol	1.0156 1.1288	0.9511 0.9655	1.0279	1.1110	1.1697	Ave		1.0528				8.0		20.0			
Acrylonitrile	3.3547 3.7261	3.2482 3.8697	3.8210	3.4385	4.4580	Ave		3.7023				11.1		20.0			
Methyl tert-butyl ether	0.6479 0.7420	0.6277 0.6762	0.6717	0.6482	0.7521	Ave		0.6808			0.1000	7.1		20.0			
trans-1,2-Dichloroethene	0.2636 0.2920	0.2568 0.2706	0.2670	0.2508	0.2967	Ave		0.2711			0.1000	6.4		20.0			
n-Hexane	0.2986 0.4503	0.2876 0.4202	0.3712	0.3567	0.4652	Ave		0.3785				18.5		20.0			
1,1-Dichloroethane	0.4529 0.5299	0.4771 0.4952	0.4797	0.4692	0.5393	Ave		0.4919			0.2000	6.5		20.0			
di-Isopropyl ether	0.7902 0.8812	0.7740 0.8214	0.8046	0.7810	0.8994	Ave		0.8217				6.0		20.0			
2-Chloro-1,3-butadiene	0.3795 0.4481	0.3757 0.4209	0.4011	0.3850	0.4606	Ave		0.4101				8.3		20.0			
Ethyl t-butyl ether	0.7755 0.8660	0.7525 0.7962	0.7910	0.7665	0.8768	Ave		0.8035				6.1		20.0			
2-Butanone (MEK)	4.4727 4.7324	4.7875 4.9530	5.0137	4.4128	5.5781	Ave		4.8500			0.1000	8.1		20.0			
cis-1,2-Dichloroethene	0.3085 0.3204	0.2792 0.2984	0.2962	0.2831	0.3282	Ave		0.3020			0.1000	6.0		20.0			
2,2-Dichloropropane	0.3889 0.4654	0.4050 0.4361	0.4203	0.4002	0.4780	Ave		0.4277				7.9		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.: 410-64660-1 Analy Batch No.: 163707

SDG No.:

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

Calibration Start Date: 08/24/2021 00:45 Calibration End Date: 08/24/2021 02:52 Calibration ID: 29976

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	1.0665 1.3670	1.1664 1.3682	1.3168	1.2026	1.5295	Ave		1.2882				12.0		20.0			
Methacrylonitrile	4.4612 4.7621	4.5433 5.1194	5.0070	4.3591	5.8587	Ave		4.8730				10.6		20.0			
Bromochloromethane	0.1221 0.1403	0.1231 0.1291	0.1294	0.1262	0.1421	Ave		0.1303				6.1		20.0			
Tetrahydrofuran	1.3973 1.4262	1.2691 1.4530	1.4982	1.3139	1.7126	Ave		1.4386				10.0		20.0			
Chloroform	0.4692 0.5205	0.4652 0.4830	0.4841	0.4582	0.5306	Ave		0.4873			0.2000	5.7		20.0			
1,1,1-Trichloroethane	0.4073 0.4942	0.4194 0.4640	0.4484	0.4274	0.5086	Ave		0.4528			0.1000	8.5		20.0			
Cyclohexane	0.3570 0.5244	0.3518 0.4941	0.4506	0.4210	0.5435	Ave		0.4489			0.1000	17.1		20.0			
1,1-Dichloropropene	0.3433 0.4231	0.3424 0.3973	0.3762	0.3598	0.4316	Ave		0.3820				9.5		20.0			
Carbon tetrachloride	0.3364 0.4445	0.3351 0.4154	0.3838	0.3693	0.4512	Ave		0.3908			0.1000	12.2		20.0			
Isobutyl alcohol	0.3505 0.3456	0.3053 0.3093	0.3476	0.3308	0.3625	Ave		0.3359				6.5		20.0			
Benzene	1.0786 1.2043	1.0806 1.1169	1.1054	1.0522	1.2324	Ave		1.1243			0.5000	6.0		20.0			
1,2-Dichloroethane	0.3196 0.3205	0.2889 0.2988	0.3010	0.2768	0.3267	Ave		0.3046			0.1000	6.0		20.0			
t-Amyl methyl ether	0.7373 0.8084	0.6853 0.7420	0.7269	0.7135	0.8081	Ave		0.7459				6.2		20.0			
n-Heptane	0.3735 0.4318	0.3278 0.4065	0.3870	0.3498	0.4481	Ave		0.3892				11.1		20.0			
n-Butanol	0.2672 0.3373	0.2899 0.2908	0.3219	0.3041	0.3716	Ave		0.3118				11.2		20.0			
Trichloroethene	0.2830 0.3275	0.2877 0.3071	0.2935	0.2799	0.3365	Ave		0.3022			0.2000	7.4		20.0			
Methylcyclohexane	0.4104 0.5911	0.3880 0.5530	0.4960	0.4766	0.6030	Ave		0.5026			0.1000	16.8		20.0			
1,2-Dichloropropane	0.2449 0.3041	0.2530 0.2850	0.2751	0.2653	0.3056	Ave		0.2761			0.1000	8.6		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.: 410-64660-1 Analy Batch No.: 163707

SDG No.:

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

Calibration Start Date: 08/24/2021 00:45 Calibration End Date: 08/24/2021 02:52 Calibration ID: 29976

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	8.2957 9.7081	7.9901 10.530	10.080	8.6383	11.802	Ave		9.5777				14.2		20.0			
1,4-Dioxane	+++++ 0.0928	0.0580 0.0531	0.0734	0.0840	0.0900	Qua	-2.625	0.1219	-0.000053		0.0050				0.9980		0.9900
Dibromomethane	0.1367 0.1448	0.1222 0.1357	0.1296	0.1288	0.1470	Ave		0.1350				6.6		20.0			
Bromodichloromethane	0.3016 0.3705	0.3121 0.3529	0.3183	0.3156	0.3722	Ave		0.3347			0.2000	8.8		20.0			
2-Nitropropane	2.4224 2.6776	2.5126 2.9919	2.8529	2.4822	3.2402	Ave		2.7400				11.0		20.0			
cis-1,3-Dichloropropene	0.3774 0.4708	0.3700 0.4485	0.4057	0.4003	0.4712	Ave		0.4206			0.2000	10.1		20.0			
4-Methyl-2-pentanone (MIBK)	11.172 12.055	11.105 12.848	12.660	11.139	14.512	Ave		12.213			0.1000	10.2		20.0			
Toluene	0.9391 1.0243	0.9229 0.9386	0.9435	0.8884	1.0533	Ave		0.9586			0.4000	6.1		20.0			
trans-1,3-Dichloropropene	0.3935 0.5015	0.3900 0.4685	0.4231	0.4193	0.4982	Ave		0.4420			0.1000	10.7		20.0			
Ethyl methacrylate	0.3292 0.4153	0.3108 0.3888	0.3532	0.3657	0.4193	Ave		0.3689				11.2		20.0			
1,1,2-Trichloroethane	0.2499 0.2775	0.2390 0.2510	0.2485	0.2458	0.2782	Ave		0.2557			0.1000	6.1		20.0			
Tetrachloroethene	0.4216 0.5030	0.4243 0.4609	0.4444	0.4314	0.5113	Ave		0.4567			0.2000	8.1		20.0			
1,3-Dichloropropane	0.4271 0.4684	0.3991 0.4306	0.4298	0.4146	0.4743	Ave		0.4348				6.3		20.0			
2-Hexanone	7.1827 8.6184	7.7352 9.2473	8.7474	7.7260	10.621	Ave		8.5540			0.1000	13.5		20.0			
Dibromochloromethane	0.2708 0.3553	0.2672 0.3375	0.3010	0.2956	0.3536	Ave		0.3116				12.0		20.0			
1,2-Dibromoethane (EDB)	0.2369 0.2698	0.2170 0.2484	0.2455	0.2352	0.2740	Ave		0.2467			0.1000	8.1		20.0			
1-Chlorohexane	0.5866 0.6070	0.5028 0.5563	0.5366	0.5151	0.6198	Ave		0.5606				8.1		20.0			
Chlorobenzene	1.0341 1.1413	0.9999 1.0474	1.0475	1.0015	1.1613	Ave		1.0619			0.5000	6.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1 Analy Batch No.: 163707

SDG No.:

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

Calibration Start Date: 08/24/2021 00:45 Calibration End Date: 08/24/2021 02:52 Calibration ID: 29976

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	0.3534 0.4134	0.3288 0.3804	0.3561	0.3538	0.4095	Ave		0.3708				8.5		20.0			
Ethylbenzene	1.7775 1.9981	1.7418 1.8269	1.8103	1.7297	2.0370	Ave		1.8459			0.1000	6.6		20.0			
m&p-Xylene	0.6807 0.7933	0.6907 0.7223	0.7223	0.6883	0.8070	Ave		0.7292			0.1000	7.0		20.0			
o-Xylene	0.6801 0.7828	0.6824 0.7198	0.6941	0.6804	0.7980	Ave		0.7197			0.3000	7.0		20.0			
Styrene	1.0572 1.2839	1.0757 1.1766	1.1444	1.1001	1.2948	Ave		1.1618			0.3000	8.3		20.0			
Bromoform	0.1542 0.2215	0.1570 0.2127	0.1737	0.1730	0.2145	Ave		0.1867			0.1000	15.4		20.0			
Isopropylbenzene	1.7707 2.0794	1.7890 1.8647	1.8702	1.8099	2.1154	Ave		1.8999			0.1000	7.4		20.0			
1,1,2,2-Tetrachloroethane	0.5284 0.6088	0.5040 0.5492	0.5500	0.5207	0.6085	Ave		0.5528			0.3000	7.5		20.0			
Bromobenzene	0.7239 0.8313	0.7007 0.7595	0.7325	0.7127	0.8423	Ave		0.7576				7.5		20.0			
trans-1,4-Dichloro-2-butene	3.6060 4.4989	3.8773 5.0332	4.4651	3.9395	5.5047	Ave		4.4178				15.3		20.0			
1,2,3-Trichloropropane	0.1459 0.1691	0.1352 0.1485	0.1493	0.1459	0.1700	Ave		0.1520				8.5		20.0			
N-Propylbenzene	3.4241 4.1059	3.4158 3.5771	3.6026	3.4783	4.1391	Ave		3.6775				8.5		20.0			
2-Chlorotoluene	0.6886 0.8261	0.6965 0.7589	0.7527	0.7210	0.8383	Ave		0.7546				7.8		20.0			
1,3,5-Trimethylbenzene	2.4877 3.0046	2.4892 2.6889	2.6091	2.5128	3.0071	Ave		2.6856				8.6		20.0			
4-Chlorotoluene	0.7206 0.8363	0.7144 0.7728	0.7625	0.7264	0.8610	Ave		0.7706				7.5		20.0			
tert-Butylbenzene	0.5220 0.6578	0.5491 0.5957	0.5757	0.5601	0.6625	Ave		0.5890				9.1		20.0			
Pentachloroethane	0.4318 0.5591	0.3812 0.5124	0.4425	0.4642	0.5385	Ave		0.4757				13.4		20.0			
1,2,4-Trimethylbenzene	2.5034 3.0669	2.5332 2.7532	2.7222	2.5837	3.1073	Ave		2.7528				9.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1 Analy Batch No.: 163707

SDG No.:

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

Calibration Start Date: 08/24/2021 00:45 Calibration End Date: 08/24/2021 02:52 Calibration ID: 29976

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	3.0988 3.7882	3.1067 3.3969	3.3230	3.2189	3.8259	Ave		3.3941				8.9		20.0			
1,3-Dichlorobenzene	1.4232 1.7010	1.3877 1.5496	1.5218	1.4220	1.6882	Ave		1.5277			0.6000	8.4		20.0			
p-Isopropyltoluene	2.7768 3.3546	2.7485 2.9902	2.9177	2.8376	3.3892	Ave		3.0021				8.9		20.0			
1,4-Dichlorobenzene	1.5011 1.7091	1.4485 1.5576	1.5299	1.4598	1.7250	Ave		1.5616			0.5000	7.2		20.0			
1,2,3-Trimethylbenzene	1.1533 1.3366	1.1447 1.2073	1.2071	1.1607	1.3161	Ave		1.2180				6.4		20.0			
Benzyl chloride	0.1628 0.2764	0.1957 0.2557	0.2131	0.2136	0.2660	Ave		0.2262				18.3		20.0			
n-Butylbenzene	1.2960 1.5824	1.2462 1.4394	1.3589	1.3122	1.5855	Ave		1.4029				9.8		20.0			
1,2-Dichlorobenzene	1.3272 1.5336	1.2611 1.3757	1.3800	1.3430	1.5513	Ave		1.3960			0.4000	7.7		20.0			
1,2-Dibromo-3-Chloropropane	0.0593 0.1030	0.0659 0.0884	0.0775	0.0818	0.0933	Ave		0.0813			0.0500	18.8		20.0			
1,3,5-Trichlorobenzene	1.0011 1.2847	1.0067 1.1450	1.0702	1.0496	1.2682	Ave		1.1179				10.6		20.0			
1,2,4-Trichlorobenzene	0.8399 1.0952	0.8063 0.9601	0.9241	0.9014	1.0764	Ave		0.9433			0.2000	11.7		20.0			
Hexachlorobutadiene	0.4823 0.4373	0.3756 0.3936	0.3835	0.3656	0.4307	Ave		0.4098				10.2		20.0			
Naphthalene	1.7619 2.0429	1.5776 1.6639	1.7607	1.7878	1.9900	Ave		1.7978				9.3		20.0			
1,2,3-Trichlorobenzene	0.8050 0.9264	0.7050 0.7725	0.7921	0.7919	0.9136	Ave		0.8152				9.7		20.0			
Dibromofluoromethane (Surr)	0.2500 0.2511	0.2526 0.2515	0.2525	0.2532	0.2524	Ave		0.2519				0.4		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0506 0.0506	0.0495 0.0507	0.0502	0.0508	0.0504	Ave		0.0504				0.9		20.0			
Toluene-d8 (Surr)	1.3069 1.2913	1.2928 1.2642	1.3038	1.3008	1.2863	Ave		1.2923				1.1		20.0			
4-Bromofluorobenzene (Surr)	0.4980 0.4916	0.4938 0.4919	0.4982	0.4929	0.4908	Ave		0.4939				0.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1 Analy Batch No.: 163707

SDG No.:

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

Calibration Start Date: 08/24/2021 00:45 Calibration End Date: 08/24/2021 02:52 Calibration ID: 29976

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-163707/18	IG23I07.D
Level 2	IC 410-163707/17	IG23I06.D
Level 3	IC 410-163707/16	IG23I05.D
Level 4	IC 410-163707/15	IG23I04.D
Level 5	IC 410-163707/14	IG23I03.D
Level 6	ICIS 410-163707/13	IG23I02.D
Level 7	IC 410-163707/12	IG23I01.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	+++++ 769929	23341 1976750	65891	133370	382263	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	16469 783649	42004 2051431	71033	145518	399273	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	15788 717606	33180 1874306	69705	136810	372442	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	16237 816639	37981 2115370	72933	148690	416864	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	12369 573256	30163 1433103	52904	107796	291289	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	9968 476638	24539 1221840	44138	87256	245993	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	24746 1143054	57981 2906691	105130	213271	585859	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	17920 1133164	39345 2814367	100534	200068	585022	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	8085 440991	19745 1108291	37819	80725	217146	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 123a	FB	Ave	14481 778462	33147 1932434	68921	140380	389865	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd 10	Ave	67296 3553431	164868 8611114	325453	642849	1712613	10.00 500	25.0 1250	50.0	100.0	250
1,1-Dichloroethene	FB	Ave	9853 554846	25406 1392957	51944	94828	286821	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBAd 10	Ave	22016	42743	73600	175187	396518	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.: 410-64660-1 Analy Batch No.: 163707

SDG No.:

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

Calibration Start Date: 08/24/2021 00:45 Calibration End Date: 08/24/2021 02:52 Calibration ID: 29976

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
			861750	1994344				100	250			
Freon 113	FB	Ave	7902 625953	23135 1607495	55518	101316	323788	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl iodide	FB	Ave	19236 1095984	54663 2772320	102843	191541	558589	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon disulfide	FB	Ave	27501 1534600	72614 3939815	135959	260459	782475	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd 10	Ave	6630 261567	10814 587766	20743	53852	124512	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	17799 874837	44817 2240583	82613	152579	448975	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	11123 593991	29677 1487176	55257	105792	300072	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd 10	Ave	13173 745936	30939 1480411	58831	144787	314368	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd 10	Ave	5439 307786	13208 741706	27336	56014	149768	0.500 25.0	1.25 62.5	2.50	5.00	12.5
Methyl tert-butyl ether	FB	Ave	28552 1574902	74896 3912928	145601	277645	795636	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	11615 619693	30641 1566059	57886	107403	313872	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	13158 955763	34316 2431187	80465	152797	492058	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	19958 1124834	56931 2865291	103998	200971	570521	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	34823 1870451	92363 4752763	174418	334487	951429	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	16724 951023	44829 2435652	86951	164913	487276	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	34174 1838180	89795 4606991	171468	328284	927469	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone (MEK)	TBAd 10	Ave	29007	77869	143475	287542	749581	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.: 410-64660-1 Analy Batch No.: 163707

SDG No.:

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

Calibration Start Date: 08/24/2021 00:45 Calibration End Date: 08/24/2021 02:52 Calibration ID: 29976

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
			1563634	3797344				100	250			
cis-1,2-Dichloroethene	FB	Ave	13593 679972	33313 1726698	64220	121250	347207	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	17139 987902	48330 2523281	91101	171411	505614	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Propionitrile	TBAd 10	Ave	13833 903317	37944 2097921	75368	156726	411078	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd 10	Ave	28932 1573429	73898 3924933	143284	284046	787287	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	5382 297719	14686 746910	28049	54068	150285	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd 10	Ave	4531 235618	10321 557004	21437	42808	115070	1.00 50.0	2.50 125	5.00	10.0	25.0
Chloroform	FB	Ave	20677 1104772	55513 2794705	104933	196244	561287	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	17947 1048975	50051 2684937	97208	183060	537958	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	15734 1113121	41983 2858999	97677	180314	574963	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	15129 898023	40862 2298795	81553	154095	456566	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	14826 943497	39984 2403582	83203	158160	477332	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	TBAd 10	Ave	11365 570979	24830 1185567	49738	107772	243578	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	47533 2556166	128948 6462549	239616	450649	1303704	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	14085 680372	34473 1729238	65256	118544	345575	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	32493 1715769	81778 4293680	157576	305576	854837	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	16461	39115	83896	149822	473994	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.: 410-64660-1 Analy Batch No.: 163707

SDG No.:

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

Calibration Start Date: 08/24/2021 00:45 Calibration End Date: 08/24/2021 02:52 Calibration ID: 29976

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
			916472	2352079				10.0	25.0			
n-Butanol	TBAd 10	Ave	15162 975208	41262 1950741	80599	173400	436929	17.5 875	43.8 2188	87.5	175	438
Trichloroethene	FB	Ave	12472 695086	34329 1777081	63618	119880	356004	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	18086 1254685	46295 3199658	107529	204137	637877	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	10792 645492	30184 1648952	59643	113623	323309	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl methacrylate	TBAd 10	Ave	5380 320765	12996 807321	28845	56288	158597	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBAd 10	Qua	+++++ 153335	4720 203588	10496	27358	60485	+++++ 500	25.0 1250	50.0	100	250
Dibromomethane	FB	Ave	6024 307242	14579 785220	28100	55146	155460	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromodichloromethane	FB	Ave	13292 786321	37237 2042180	68991	135182	393721	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBAd 10	Ave	7855 442348	20434 1146903	40821	80872	217711	1.00 50.0	2.50 125	5.00	10.0	25.0
cis-1,3-Dichloropropene	FB	Ave	16632 999345	44155 2594937	87948	171443	498450	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone (MIBK)	TBAd 10	Ave	72451 3982955	180620 9850003	362286	725808	1950081	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd 5	Ave	31541 1680421	85173 4295450	156583	294006	865208	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd 5	Ave	13216 822825	35995 2144165	70216	138743	409218	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd 5	Ave	11059	28685	58617	121040	344439	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.: 410-64660-1 Analy Batch No.: 163707

SDG No.:

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

Calibration Start Date: 08/24/2021 00:45 Calibration End Date: 08/24/2021 02:52 Calibration ID: 29976

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
			681452	1779294				10.0	25.0			
1,1,2-Trichloroethane	CBZd 5	Ave	8395 455229	22055 1148961	41236	81343	228498	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd 5	Ave	14161 825293	39159 2109166	73750	142779	419950	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd 5	Ave	14346 768446	36830 1970914	71333	137217	389560	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBAd 10	Ave	46582 2847614	125813 7089653	250322	503437	1427211	2.00 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd 5	Ave	9097 582989	24663 1544832	49956	97832	290417	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane (EDB)	CBZd 5	Ave	7956 442687	20030 1136711	40746	77838	225049	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd 5	Ave	19704 995910	46401 2545795	89057	170447	509095	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chlorobenzene	CBZd 5	Ave	34732 1872527	92274 4793510	173851	331442	953872	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd 5	Ave	11871 678162	30345 1740796	59106	117075	336401	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd 5	Ave	59702 3278221	160740 8361092	300446	572417	1673213	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd 5	Ave	45724 2602971	127477 6611583	239751	455535	1325681	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd 5	Ave	22844	62976	115204	225160	655445	0.200	0.500	1.00	2.00	5.00

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1 Analy Batch No.: 163707

SDG No.:

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

Calibration Start Date: 08/24/2021 00:45 Calibration End Date: 08/24/2021 02:52 Calibration ID: 29976

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
			1284350	3294215				10.0	25.0			
Styrene	CBZd 5	Ave	35508 2106471	99275 5384777	189931	364056	1063582	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd 5	Ave	5180 363441	14486 973418	28833	57249	176181	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd 5	Ave	59476 3411517	165096 8533967	310386	598946	1737611	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	10699 586534	27777 1493325	54325	102513	293036	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd 4	Ave	14657 800922	38617 2065190	72358	140306	405579	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	TBAd 10	Ave	23386 1486472	63065 3858821	127777	256704	739718	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	2954 162926	7449 403698	14746	28724	81857	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd 4	Ave	69326 3955616	188239 9726346	355852	684747	1993107	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd 4	Ave	13941 795839	38383 2063363	74353	141927	403661	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd 4	Ave	50366 2894636	137180 7311288	257721	494667	1448018	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd 4	Ave	14590 805714	39370 2101375	75316	142990	414612	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd 4	Ave	10568	30260	56868	110262	319038	0.200	0.500	1.00	2.00	5.00

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-64660-1 Analy Batch No.: 163707

SDG No.:

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

Calibration Start Date: 08/24/2021 00:45 Calibration End Date: 08/24/2021 02:52 Calibration ID: 29976

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
			633713	1619763				10.0	25.0			
Pentachloroethane	DCBd 4	Ave	8742 538681	21010 1393099	43712	91381	259289	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd 4	Ave	50685 2954664	139600 7486072	268890	508634	1496260	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd 4	Ave	62740 3649559	171209 9236299	328234	633668	1842298	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichlorobenzene	DCBd 4	Ave	28815 1638792	76475 4213523	150321	279932	812939	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd 4	Ave	56219 3231863	151465 8130505	288208	558603	1632038	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd 4	Ave	30392 1646605	79823 4235116	151116	287369	830653	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd 4	Ave	23351 1287655	63083 3282745	119238	228500	633734	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd 4	Ave	3297 266255	10785 695344	21047	42047	128109	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd 4	Ave	26239 1524448	68676 3913754	134228	258320	763485	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd 4	Ave	26871 1477507	69498 3740715	136312	264385	746995	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1200 99189	3634 240431	7659	16104	44921	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd 4	Ave	20269	55476	105716	206620	610685	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.: 410-64660-1 Analy Batch No.: 163707

SDG No.:

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

Calibration Start Date: 08/24/2021 00:45 Calibration End Date: 08/24/2021 02:52 Calibration ID: 29976

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
			1237730	3113277				10.0	25.0			
1,2,4-Trichlorobenzene	DCBd 4	Ave	17004 1055085	44434 2610571	91280	177445	518320	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd 4	Ave	9764 421345	20700 1070139	37885	71973	207395	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd 4	Ave	35671 1968173	86939 4524102	173919	351951	958252	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd 4	Ave	16298 892480	38854 2100548	78245	155892	439919	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	550850 533065	602854 582034	547419	542329	533947	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	111473 107464	118060 117327	108914	108754	106534	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd 5	Ave	2194797 2118631	2386226 2314329	2163909	2152292	2113101	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd 5	Ave	836413 806596	911479 900526	826851	815520	806331	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.: 410-64660-1 Analy Batch No.: 163707

SDG No.:

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

Calibration Start Date: 08/24/2021 00:45 Calibration End Date: 08/24/2021 02:52 Calibration ID: 29976

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-163707/18	IG23I07.D
Level 2	IC 410-163707/17	IG23I06.D
Level 3	IC 410-163707/16	IG23I05.D
Level 4	IC 410-163707/15	IG23I04.D
Level 5	IC 410-163707/14	IG23I03.D
Level 6	ICIS 410-163707/13	IG23I02.D
Level 7	IC 410-163707/12	IG23I01.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	+++++ 9.2	-37.5	-2.8	-0.4	15.5	16.0	30	50	30	30	30	30
Chloromethane	4.9 -0.5	-1.2	-8.0	-4.7	5.9	3.6	50 30	30	30	30	30	30
1,3-Butadiene	9.4 -1.0	-15.1	-1.8	-2.4	7.6	3.3	50 30	30	30	30	30	30
Vinyl chloride	2.6 1.8	-11.4	-6.3	-3.4	9.7	7.1	50 30	30	30	30	30	30
Bromomethane	7.8 -4.9	-2.9	-6.3	-3.3	5.8	3.7	50 30	30	30	30	30	30
Chloroethane	5.0 -1.9	-4.5	-5.5	-5.4	8.0	4.3	50 30	30	30	30	30	30
Dichlorofluoromethane	8.4 -3.0	-6.2	-6.4	-3.8	6.9	4.0	50 30	30	30	30	30	30
Trichlorofluoromethane	-12.2 5.1	-28.8	0.2	0.9	19.5	15.3	50 30	30	30	30	30	30
Ethyl ether	-2.4 1.8	-12.0	-7.2	0.2	9.2	10.5	50 30	30	30	30	30	30
Freon 123a	-0.9 0.7	-16.2	-4.1	-1.2	11.1	10.6	50 30	30	30	30	30	30
Acrolein	-5.0 2.8	-7.2	4.1	-9.7	16.6	-1.6	50 30	30	30	30	30	30
1,1-Dichloroethene	-6.3 0.9	-10.8	0.4	-7.2	13.6	9.5	50 30	30	30	30	30	30
Acetone	22.2 -6.3	-5.4	-7.4	-3.2	6.2	-6.1	50 30	30	30	30	30	30
Freon 113	-28.1 11.5	-22.2	2.8	-5.1	22.8	18.3	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.: 410-64660-1 Analy Batch No.: 163707

SDG No.:

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

Calibration Start Date: 08/24/2021 00:45 Calibration End Date: 08/24/2021 02:52 Calibration ID: 29976

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	-8.5 0.4	-4.0	-0.6	-6.3	10.7	8.2	50 30	30	30	30	30	30
Carbon disulfide	-5.3 3.4	-7.6	-4.8	-7.7	12.3	9.7	50 30	30	30	30	30	30
Methyl acetate	25.0 -6.2	-18.7	-11.3	1.1	13.3	-3.2	50 30	30	30	30	30	30
Allyl chloride	3.2 -1.1	-4.1	-2.7	-9.0	8.4	5.3	50 30	30	30	30	30	30
Methylene Chloride	-3.1 -1.3	-4.5	-2.2	-5.2	8.9	7.4	50 30	30	30	30	30	30
t-Butyl alcohol	-3.5 -8.3	-9.7	-2.4	5.5	11.1	7.2	50 30	30	30	30	30	30
Acrylonitrile	-9.4 4.5	-12.3	3.2	-7.1	20.4	0.6	50 30	30	30	30	30	30
Methyl tert-butyl ether	-4.8 -0.7	-7.8	-1.3	-4.8	10.5	9.0	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-2.8 -0.2	-5.3	-1.5	-7.5	9.5	7.7	50 30	30	30	30	30	30
n-Hexane	-21.1 11.0	-24.0	-1.9	-5.8	22.9	19.0	50 30	30	30	30	30	30
1,1-Dichloroethane	-7.9 0.7	-3.0	-2.5	-4.6	9.6	7.7	50 30	30	30	30	30	30
di-Isopropyl ether	-3.8 0.0	-5.8	-2.1	-5.0	9.5	7.2	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-7.5 2.6	-8.4	-2.2	-6.1	12.3	9.2	50 30	30	30	30	30	30
Ethyl t-butyl ether	-3.5 -0.9	-6.3	-1.6	-4.6	9.1	7.8	50 30	30	30	30	30	30
2-Butanone (MEK)	-7.8 2.1	-1.3	3.4	-9.0	15.0	-2.4	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	2.1 -1.2	-7.6	-1.9	-6.3	8.7	6.1	50 30	30	30	30	30	30
2,2-Dichloropropane	-9.1 2.0	-5.3	-1.7	-6.4	11.8	8.8	50 30	30	30	30	30	30
Propionitrile	-17.2 6.2	-9.4	2.2	-6.6	18.7	6.1	50 30	30	30	30	30	30
Methacrylonitrile	-8.5 5.1	-6.8	2.8	-10.5	20.2	-2.3	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.: 410-64660-1 Analy Batch No.: 163707

SDG No.:

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

Calibration Start Date: 08/24/2021 00:45 Calibration End Date: 08/24/2021 02:52 Calibration ID: 29976

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Bromochloromethane	-6.3 -1.0	-5.6	-0.7	-3.1	9.0	7.6	50 30	30	30	30	30	30
Tetrahydrofuran	-2.9 1.0	-11.8	4.1	-8.7	19.0	-0.9	50 30	30	30	30	30	30
Chloroform	-3.7 -0.9	-4.5	-0.7	-6.0	8.9	6.8	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-10.1 2.5	-7.4	-1.0	-5.6	12.3	9.2	50 30	30	30	30	30	30
Cyclohexane	-20.5 10.1	-21.6	0.4	-6.2	21.1	16.8	50 30	30	30	30	30	30
1,1-Dichloropropene	-10.1 4.0	-10.3	-1.5	-5.8	13.0	10.8	50 30	30	30	30	30	30
Carbon tetrachloride	-13.9 6.3	-14.3	-1.8	-5.5	15.5	13.7	50 30	30	30	30	30	30
Isobutyl alcohol	4.3 -7.9	-9.1	3.5	-1.5	7.9	2.9	50 30	30	30	30	30	30
Benzene	-4.1 -0.7	-3.9	-1.7	-6.4	9.6	7.1	50 30	30	30	30	30	30
1,2-Dichloroethane	4.9 -1.9	-5.2	-1.2	-9.1	7.2	5.2	50 30	30	30	30	30	30
t-Amyl methyl ether	-1.2 -0.5	-8.1	-2.6	-4.4	8.3	8.4	50 30	30	30	30	30	30
n-Heptane	-4.0 4.4	-15.8	-0.6	-10.1	15.1	10.9	50 30	30	30	30	30	30
n-Butanol	-14.3 -6.7	-7.0	3.2	-2.5	19.2	8.2	50 30	30	30	30	30	30
Trichloroethene	-6.3 1.6	-4.8	-2.9	-7.4	11.4	8.4	50 30	30	30	30	30	30
Methylcyclohexane	-18.3 10.0	-22.8	-1.3	-5.2	20.0	17.6	50 30	30	30	30	30	30
1,2-Dichloropropane	-11.3 3.2	-8.4	-0.4	-3.9	10.7	10.1	50 30	30	30	30	30	30
Methyl methacrylate	-13.4 9.9	-16.6	5.2	-9.8	23.2	1.4	50 30	30	30	30	30	30
1,4-Dioxane	+++++ -17.8	35.8	5.7	-5.7	-8.4	4.1	 30	50	30	30	30	30
Dibromomethane	1.3 0.6	-9.5	-3.9	-4.6	8.9	7.3	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.: 410-64660-1 Analy Batch No.: 163707

SDG No.:

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

Calibration Start Date: 08/24/2021 00:45 Calibration End Date: 08/24/2021 02:52 Calibration ID: 29976

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	-9.9 5.4	-6.8	-4.9	-5.7	11.2	10.7	50 30	30	30	30	30	30
2-Nitropropane	-11.6 9.2	-8.3	4.1	-9.4	18.3	-2.3	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-10.3 6.6	-12.0	-3.5	-4.8	12.0	12.0	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	-8.5 5.2	-9.1	3.7	-8.8	18.8	-1.3	50 30	30	30	30	30	30
Toluene	-2.0 -2.1	-3.7	-1.6	-7.3	9.9	6.9	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-11.0 6.0	-11.8	-4.3	-5.1	12.7	13.5	50 30	30	30	30	30	30
Ethyl methacrylate	-10.8 5.4	-15.7	-4.3	-0.9	13.7	12.6	50 30	30	30	30	30	30
1,1,2-Trichloroethane	-2.3 -1.8	-6.5	-2.8	-3.9	8.8	8.5	50 30	30	30	30	30	30
Tetrachloroethene	-7.7 0.9	-7.1	-2.7	-5.5	11.9	10.1	50 30	30	30	30	30	30
1,3-Dichloropropane	-1.8 -1.0	-8.2	-1.2	-4.6	9.1	7.7	50 30	30	30	30	30	30
2-Hexanone	-16.0 8.1	-9.6	2.3	-9.7	24.2	0.8	50 30	30	30	30	30	30
Dibromochloromethane	-13.1 8.3	-14.2	-3.4	-5.1	13.5	14.0	50 30	30	30	30	30	30
1,2-Dibromoethane (EDB)	-4.0 0.7	-12.0	-0.5	-4.7	11.1	9.4	50 30	30	30	30	30	30
1-Chlorohexane	4.6 -0.8	-10.3	-4.3	-8.1	10.6	8.3	50 30	30	30	30	30	30
Chlorobenzene	-2.6 -1.4	-5.8	-1.4	-5.7	9.4	7.5	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-4.7 2.6	-11.3	-3.9	-4.6	10.5	11.5	50 30	30	30	30	30	30
Ethylbenzene	-3.7 -1.0	-5.6	-1.9	-6.3	10.4	8.2	50 30	30	30	30	30	30
m&p-Xylene	-6.7 -0.9	-5.3	-0.9	-5.6	10.7	8.8	50 30	30	30	30	30	30
o-Xylene	-5.5 0.0	-5.2	-3.5	-5.5	10.9	8.8	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.: 410-64660-1 Analy Batch No.: 163707

SDG No.:

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

Calibration Start Date: 08/24/2021 00:45 Calibration End Date: 08/24/2021 02:52 Calibration ID: 29976

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	-9.0 1.3	-7.4	-1.5	-5.3	11.4	10.5	50 30	30	30	30	30	30
Bromoform	-17.4 13.9	-15.9	-6.9	-7.3	14.9	18.7	50 30	30	30	30	30	30
Isopropylbenzene	-6.8 -1.9	-5.8	-1.6	-4.7	11.3	9.4	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-4.4 -0.7	-8.8	-0.5	-5.8	10.1	10.1	50 30	30	30	30	30	30
Bromobenzene	-4.4 0.3	-7.5	-3.3	-5.9	11.2	9.7	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-18.4 13.9	-12.2	1.1	-10.8	24.6	1.8	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-4.0 -2.3	-11.1	-1.8	-4.0	11.9	11.3	50 30	30	30	30	30	30
N-Propylbenzene	-6.9 -2.7	-7.1	-2.0	-5.4	12.5	11.6	50 30	30	30	30	30	30
2-Chlorotoluene	-8.7 0.6	-7.7	-0.2	-4.5	11.1	9.5	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-7.4 0.1	-7.3	-2.8	-6.4	12.0	11.9	50 30	30	30	30	30	30
4-Chlorotoluene	-6.5 0.3	-7.3	-1.1	-5.7	11.7	8.5	50 30	30	30	30	30	30
tert-Butylbenzene	-11.4 1.1	-6.8	-2.3	-4.9	12.5	11.7	50 30	30	30	30	30	30
Pentachloroethane	-9.2 7.7	-19.9	-7.0	-2.4	13.2	17.5	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-9.1 0.0	-8.0	-1.1	-6.1	12.9	11.4	50 30	30	30	30	30	30
sec-Butylbenzene	-8.7 0.1	-8.5	-2.1	-5.2	12.7	11.6	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-6.8 1.4	-9.2	-0.4	-6.9	10.5	11.3	50 30	30	30	30	30	30
p-Isopropyltoluene	-7.5 -0.4	-8.4	-2.8	-5.5	12.9	11.7	50 30	30	30	30	30	30
1,4-Dichlorobenzene	-3.9 -0.3	-7.2	-2.0	-6.5	10.5	9.5	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-5.3 -0.9	-6.0	-0.9	-4.7	8.1	9.7	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.: 410-64660-1 Analy Batch No.: 163707

SDG No.:

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

Calibration Start Date: 08/24/2021 00:45 Calibration End Date: 08/24/2021 02:52 Calibration ID: 29976

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	-28.0 13.1	-13.5	-5.8	-5.6	17.6	22.2	50 30	30	30	30	30	30
n-Butylbenzene	-7.6 2.6	-11.2	-3.1	-6.5	13.0	12.8	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-4.9 -1.5	-9.7	-1.1	-3.8	11.1	9.9	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-27.1 8.7	-18.9	-4.6	0.6	14.7	26.6	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-10.4 2.4	-10.0	-4.3	-6.1	13.4	14.9	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-11.0 1.8	-14.5	-2.0	-4.4	14.1	16.1	50 30	30	30	30	30	30
Hexachlorobutadiene	17.7 -4.0	-8.3	-6.4	-10.8	5.1	6.7	50 30	30	30	30	30	30
Naphthalene	-2.0 -7.5	-12.3	-2.1	-0.6	10.7	13.6	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-1.3 -5.2	-13.5	-2.8	-2.9	12.1	13.6	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-0.8 -0.2	0.3	0.2	0.5	0.2	-0.3	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	0.4 0.6	-1.8	-0.3	0.8	-0.1	0.5	50 30	30	30	30	30	30
Toluene-d8 (Surr)	1.1 -2.2	0.0	0.9	0.7	-0.5	-0.1	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	0.8 -0.4	0.0	0.9	-0.2	-0.6	-0.5	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I01.D
Lims ID: IC std7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 24-Aug-2021 00:45:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0037607-012
Misc. Info.: IC STD7
Operator ID: mec29284 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 24-Aug-2021 15:55:02 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1646

First Level Reviewer: longj Date: 24-Aug-2021 15:00:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.977	1.965	0.012	99	1976750	25.0	27.3	
4 Chloromethane	50	2.172	2.172	0.000	99	2051431	25.0	24.9	
6 Butadiene	39	2.294	2.288	0.006	90	1874306	25.0	24.7	
5 Vinyl chloride	62	2.294	2.294	0.000	96	2115370	25.0	25.4	
7 Bromomethane	94	2.623	2.623	0.000	91	1433103	25.0	23.8	
8 Chloroethane	64	2.709	2.709	0.000	100	1221840	25.0	24.5	
9 Dichlorofluoromethane	67	2.946	2.946	0.000	97	2906691	25.0	24.3	
10 Trichlorofluoromethane	101	3.013	3.020	-0.007	97	2814367	25.0	26.3	
11 Ethyl ether	59	3.263	3.257	0.006	90	1108291	25.0	25.5	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.355	3.343	0.012	91	1932434	25.0	25.2	
13 Acrolein	56	3.434	3.428	0.006	99	8611114	1250.0	1284.9	
14 1,1-Dichloroethene	96	3.574	3.568	0.006	98	1392957	25.0	25.2	
15 Acetone	43	3.605	3.599	0.006	100	1994344	250.0	234.1	
16 112TCTFE	101	3.617	3.611	0.006	91	1607495	25.0	27.9	
17 Iodomethane	142	3.776	3.769	0.007	99	2772320	25.0	25.1	
18 Ethyl bromide	108	3.806	3.794	0.012	99	1256154	25.0	25.0	
19 Carbon disulfide	76	3.885	3.879	0.006	99	3939815	25.0	25.8	
21 Methyl acetate	43	4.032	4.038	-0.006	97	587766	25.0	23.4	
22 3-Chloro-1-propene	41	4.056	4.056	0.000	91	2240583	25.0	24.7	
23 Methylene Chloride	84	4.245	4.239	0.006	91	1487176	25.0	24.7	
* 24 t-Butyl alcohol-d10 (IS)	65	4.257	4.263	-0.006	95	153335	50.0	50.0	
25 2-Methyl-2-propanol	59	4.391	4.397	-0.006	100	1480411	500.0	458.5	
26 Acrylonitrile	53	4.586	4.592	-0.006	100	741706	62.5	65.3	
27 Methyl tert-butyl ether	73	4.653	4.659	-0.006	95	3912928	25.0	24.8	
28 trans-1,2-Dichloroethene	96	4.672	4.672	0.000	99	1566059	25.0	25.0	
29 Hexane	57	5.092	5.086	0.006	91	2431187	25.0	27.7	
31 1,1-Dichloroethane	63	5.330	5.330	0.000	96	2865291	25.0	25.2	
32 Isopropyl ether	45	5.385	5.385	0.000	94	4752763	25.0	25.0	
33 2-Chloro-1,3-butadiene	53	5.440	5.434	0.006	91	2435652	25.0	25.7	
34 Tert-butyl ethyl ether	59	5.921	5.915	0.006	97	4606991	25.0	24.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.129	6.116	0.013	99	3797344	250.0	255.3	
S 35 1,2-Dichloroethene, Total	100				0			49.7	
37 cis-1,2-Dichloroethene	96	6.159	6.159	0.000	82	1726698	25.0	24.7	
38 2,2-Dichloropropane	77	6.177	6.171	0.006	86	2523281	25.0	25.5	
40 Propionitrile	54	6.208	6.208	0.000	99	2097921	500.0	531.1	
42 Methacrylonitrile	67	6.427	6.415	0.012	91	3924933	250.0	262.6	
43 Chlorobromomethane	128	6.488	6.482	0.006	89	746910	25.0	24.8	
44 Tetrahydrofuran	71	6.501	6.494	0.007	79	557004	125.0	126.3	
45 Chloroform	83	6.641	6.635	0.006	93	2794705	25.0	24.8	
$ 46 Dibromofluoromethane (Surr)	113	6.854	6.848	0.006	94	582034	10.0	9.98	
47 1,1,1-Trichloroethane	97	6.866	6.860	0.006	98	2684937	25.0	25.6	
48 Cyclohexane	56	6.964	6.964	0.000	89	2858999	25.0	27.5	
50 Carbon tetrachloride	117	7.080	7.067	0.013	87	2403582	25.0	26.6	
51 1,1-Dichloropropene	75	7.074	7.074	0.000	96	2298795	25.0	26.0	
52 Isobutyl alcohol	41	7.214	7.214	0.000	95	1185567	1250.0	1150.8	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.305	7.299	0.006	84	117327	10.0	10.1	
54 Benzene	78	7.336	7.336	0.000	96	6462549	25.0	24.8	
56 1,2-Dichloroethane	62	7.409	7.409	0.000	98	1729238	25.0	24.5	
57 Tert-amyl methyl ether	73	7.525	7.519	0.006	98	4293680	25.0	24.9	
* 58 Fluorobenzene (IS)	96	7.738	7.732	0.006	99	2314551	10.0	10.0	
59 n-Heptane	43	7.750	7.744	0.006	90	2352079	25.0	26.1	
60 n-Butanol	56	8.092	8.098	-0.006	87	1950741	2187.5	2039.9	
61 Trichloroethene	95	8.220	8.214	0.006	97	1777081	25.0	25.4	
62 Methylcyclohexane	83	8.525	8.525	0.000	93	3199658	25.0	27.5	
63 1,2-Dichloropropane	63	8.549	8.543	0.006	93	1648952	25.0	25.8	
64 Methyl methacrylate	69	8.622	8.628	-0.006	89	807321	25.0	27.5	
65 1,4-Dioxane	88	8.634	8.640	-0.006	32	203588	1250.0	1026.9	M
66 Dibromomethane	93	8.659	8.653	0.006	93	785220	25.0	25.1	
68 Dichlorobromomethane	83	8.890	8.890	0.000	99	2042180	25.0	26.4	
69 2-Nitropropane	41	9.153	9.152	0.000	97	1146903	125.0	136.5	
72 1-Bromo-2-chloroethane	63	9.281	9.280	0.001	98	1613213	25.0	25.7	
73 cis-1,3-Dichloropropene	75	9.433	9.433	0.000	98	2594937	25.0	26.7	
74 4-Methyl-2-pentanone (MIBK)	43	9.604	9.597	0.007	95	9850003	250.0	263.0	
$ 75 Toluene-d8 (Surr)	98	9.738	9.738	0.000	93	2314329	10.0	9.78	
76 Toluene	92	9.817	9.811	0.006	98	4295450	25.0	24.5	
S 77 1,3-Dichloropropene, Total	100				0			53.2	
78 trans-1,3-Dichloropropene	75	10.067	10.067	0.000	92	2144165	25.0	26.5	
79 Ethyl methacrylate	69	10.128	10.128	0.000	88	1779294	25.0	26.3	
80 1,1,2-Trichloroethane	97	10.268	10.268	0.000	91	1148961	25.0	24.5	
81 Tetrachloroethene	166	10.360	10.360	0.000	98	2109166	25.0	25.2	
82 1,3-Dichloropropane	76	10.433	10.433	0.000	88	1970914	25.0	24.8	
83 2-Hexanone	43	10.482	10.481	0.001	96	7089653	250.0	270.3	
85 Chlorodibromomethane	129	10.646	10.646	0.000	90	1544832	25.0	27.1	
86 Ethylene Dibromide	107	10.762	10.756	0.006	99	1136711	25.0	25.2	
* 87 Chlorobenzene-d5 (IS)	117	11.183	11.183	0.000	86	1830649	10.0	10.0	
88 1-Chlorohexane	91	11.189	11.189	0.000	96	2545795	25.0	24.8	
90 Chlorobenzene	112	11.213	11.213	0.000	95	4793510	25.0	24.7	
S 89 Xylenes, Total	106				0			74.5	
91 1,1,1,2-Tetrachloroethane	131	11.292	11.292	0.000	97	1740796	25.0	25.6	
92 Ethylbenzene	91	11.298	11.298	0.000	98	8361092	25.0	24.7	
93 m-Xylene & p-Xylene	106	11.408	11.408	0.000	99	6611583	50.0	49.5	
94 o-Xylene	106	11.737	11.737	0.000	96	3294215	25.0	25.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
95 Styrene	104	11.756	11.756	0.000	95	5384777	25.0	25.3	
96 Bromoform	173	11.914	11.914	0.000	98	973418	25.0	28.5	
97 Isopropylbenzene	105	12.036	12.036	0.000	96	8533967	25.0	24.5	
$ 100 4-Bromofluorobenzene (Surr)	95	12.182	12.182	0.000	92	900526	10.0	9.96	
101 1,1,2,2-Tetrachloroethane	83	12.280	12.280	0.000	93	1493325	25.0	24.8	
102 Bromobenzene	156	12.298	12.298	0.000	95	2065190	25.0	25.1	
103 trans-1,4-Dichloro-2-butene	53	12.304	12.304	0.000	91	3858821	250.0	284.8	
104 1,2,3-Trichloropropane	110	12.329	12.329	0.000	81	403698	25.0	24.4	
105 N-Propylbenzene	91	12.365	12.365	0.000	98	9726346	25.0	24.3	
106 2-Chlorotoluene	126	12.445	12.444	0.001	97	2063363	25.0	25.1	
107 1,3,5-Trimethylbenzene	105	12.499	12.499	0.000	94	7311288	25.0	25.0	
108 4-Chlorotoluene	126	12.536	12.536	0.000	97	2101375	25.0	25.1	
109 tert-Butylbenzene	134	12.743	12.743	0.000	93	1619763	25.0	25.3	
110 Pentachloroethane	167	12.774	12.774	0.000	94	1393099	25.0	26.9	
111 1,2,4-Trimethylbenzene	105	12.786	12.786	0.000	97	7486072	25.0	25.0	
112 sec-Butylbenzene	105	12.908	12.902	0.006	96	9236299	25.0	25.0	
113 1,3-Dichlorobenzene	146	13.005	13.005	0.000	98	4213523	25.0	25.4	
114 4-Isopropyltoluene	119	13.012	13.011	0.001	96	8130505	25.0	24.9	
* 115 1,4-Dichlorobenzene-d4	152	13.060	13.060	0.000	93	1087615	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.079	13.079	0.000	94	4235116	25.0	24.9	
117 1,2,3-Trimethylbenzene	120	13.091	13.085	0.006	98	3282745	25.0	24.8	
118 Benzyl chloride	126	13.152	13.158	-0.006	98	695344	25.0	28.3	
119 n-Butylbenzene	92	13.304	13.304	0.000	97	3913754	25.0	25.6	
120 1,2-Dichlorobenzene	146	13.341	13.341	0.000	99	3740715	25.0	24.6	
122 1,2-Dibromo-3-Chloropropane	155	13.883	13.883	0.000	90	240431	25.0	27.2	
123 1,3,5-Trichlorobenzene	180	14.005	14.005	0.000	98	3113277	25.0	25.6	
124 1,2,4-Trichlorobenzene	180	14.432	14.432	0.000	94	2610571	25.0	25.4	
125 Hexachlorobutadiene	225	14.511	14.511	0.000	96	1070139	25.0	24.0	
126 Naphthalene	128	14.609	14.609	0.000	97	4524102	25.0	23.1	
127 1,2,3-Trichlorobenzene	180	14.749	14.755	-0.006	96	2100548	25.0	23.7	
134 Isopropyl alcohol	45		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
137 2-Methylnaphthalene	142		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		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_00015	Amount Added: 25.00	Units: uL	
MSV_LL_#2_826_00015	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00027	Amount Added: 25.00	Units: uL	
MSV_LLcentISS_00001	Amount Added: 5.00	Units: uL	Run Reagent

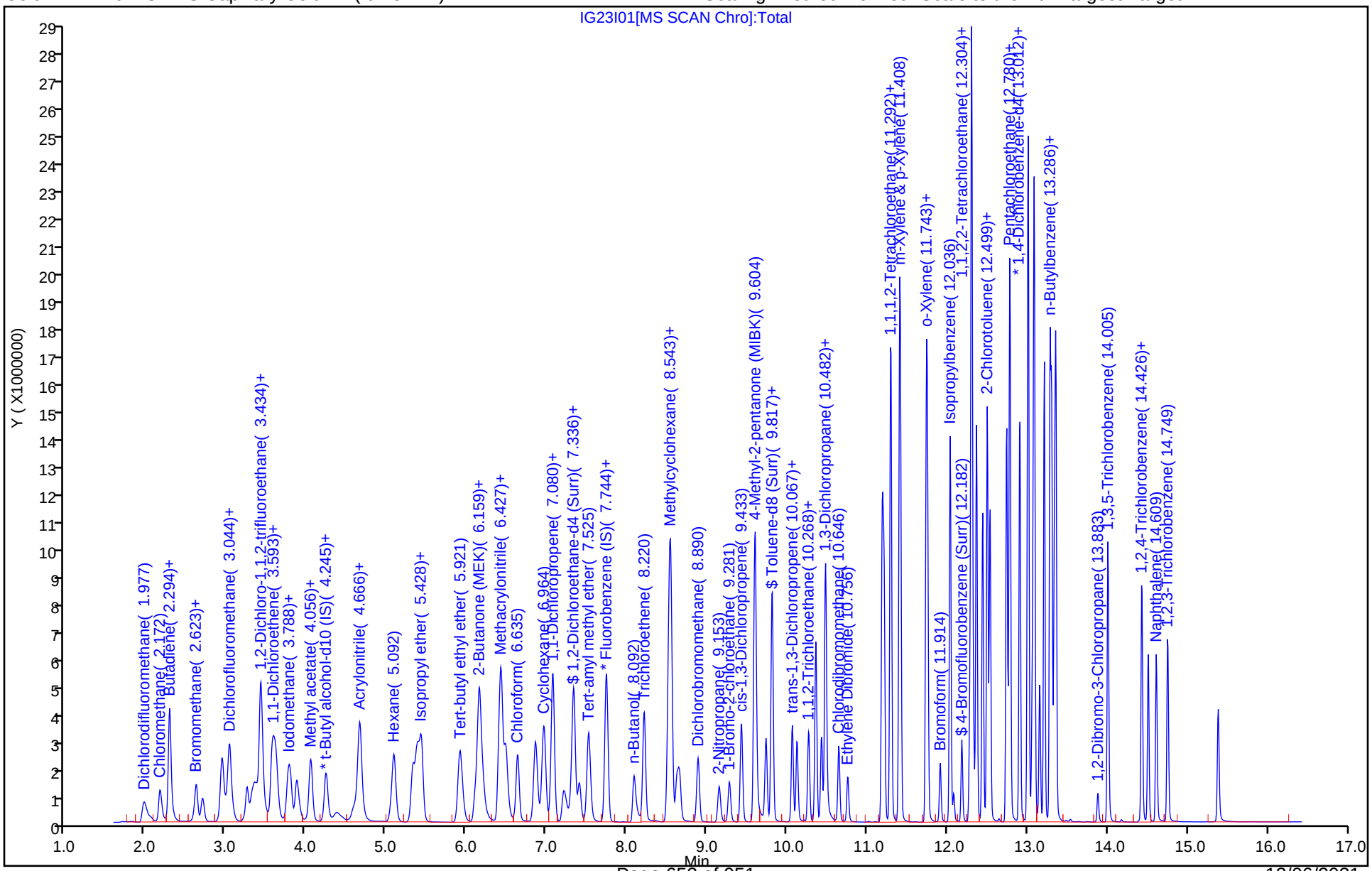
Report Date: 24-Aug-2021 15:55:02 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I01.D

Injection Date:	24-Aug-2021 00:45:30	Instrument ID:	19930	Operator ID:	mec29284
Lims ID:	IC std7			Worklist Smp#:	12
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

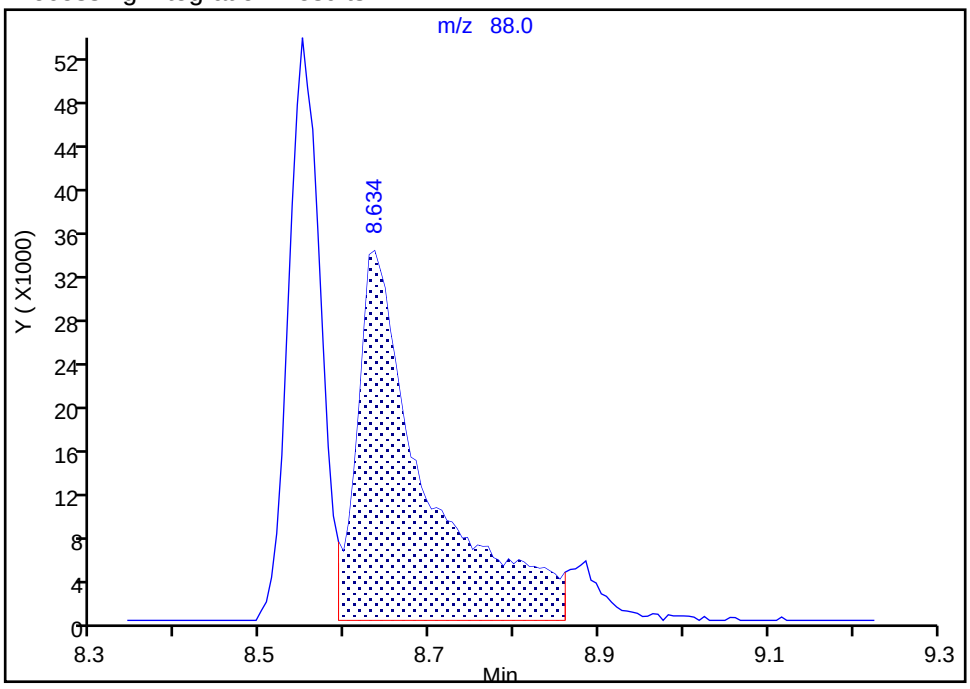
Data File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I01.D				
Injection Date:	24-Aug-2021 00:45:30	Instrument ID:	19930		
Lims ID:	IC std7				
Client ID:					
Operator ID:	mec29284	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

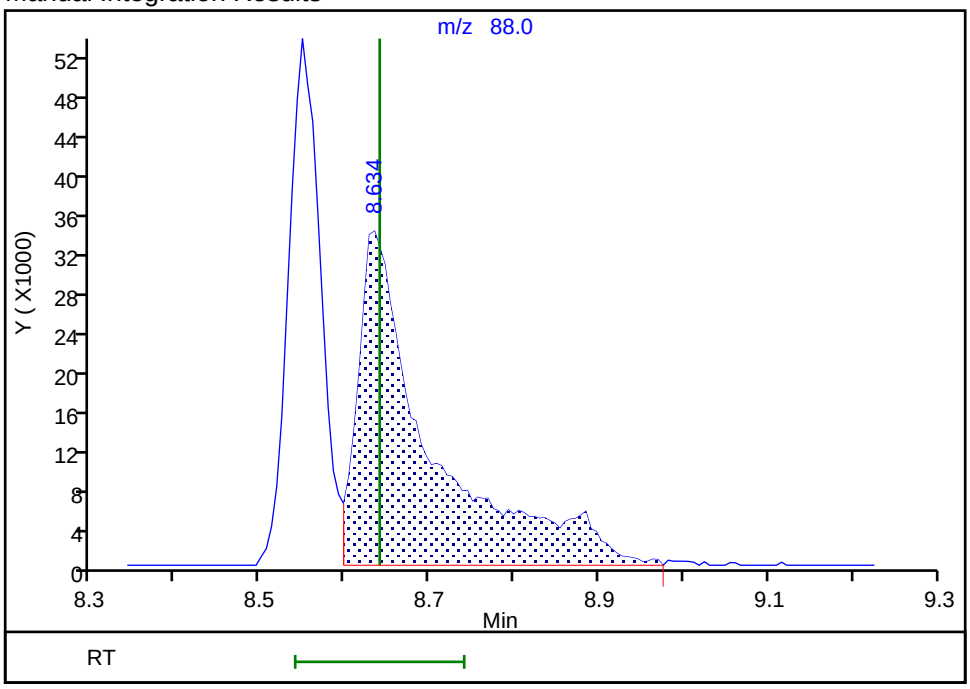
Processing Integration Results

RT: 8.63
Area: 191805
Amount: 912.6603
Amount Units: ug/l



Manual Integration Results

RT: 8.63
Area: 203588
Amount: 1026.9040
Amount Units: ug/l



Reviewer: longj, 24-Aug-2021 15:03:46

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I02.D
Lims ID: ICIS - LG
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 24-Aug-2021 01:06:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0037607-013
Misc. Info.: ICIS - LG
Operator ID: mec29284 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 24-Aug-2021 15:55:07 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1646

First Level Reviewer: spositok Date: 24-Aug-2021 14:22:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.983	1.983	0.000	99	769929	10.0	11.6	
4 Chloromethane	50	2.184	2.184	0.000	99	783649	10.0	10.4	
6 Butadiene	39	2.300	2.300	0.000	90	717606	10.0	10.3	
5 Vinyl chloride	62	2.300	2.300	0.000	97	816639	10.0	10.7	
7 Bromomethane	94	2.635	2.635	0.000	90	573256	10.0	10.4	
8 Chloroethane	64	2.715	2.715	0.000	100	476638	10.0	10.4	
9 Dichlorofluoromethane	67	2.952	2.952	0.000	97	1143054	10.0	10.4	
10 Trichlorofluoromethane	101	3.026	3.026	0.000	97	1133164	10.0	11.5	
11 Ethyl ether	59	3.269	3.269	0.000	90	440991	10.0	11.0	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.355	3.355	0.000	91	778462	10.0	11.1	
13 Acrolein	56	3.440	3.440	0.000	99	3553431	500.0	492.1	
14 1,1-Dichloroethene	96	3.580	3.580	0.000	98	554846	10.0	11.0	
15 Acetone	43	3.611	3.611	0.000	100	861750	100.0	93.9	
16 112TCTFE	101	3.623	3.623	0.000	91	625953	10.0	11.8	
17 Iodomethane	142	3.781	3.781	0.000	99	1095984	10.0	10.8	
18 Ethyl bromide	108	3.812	3.812	0.000	99	498873	10.0	10.8	
19 Carbon disulfide	76	3.891	3.891	0.000	99	1534600	10.0	11.0	
21 Methyl acetate	43	4.031	4.031	0.000	97	261567	10.0	9.68	
22 3-Chloro-1-propene	41	4.068	4.068	0.000	91	874837	10.0	10.5	
23 Methylene Chloride	84	4.257	4.257	0.000	91	593991	10.0	10.7	
* 24 t-Butyl alcohol-d10 (IS)	65	4.269	4.269	0.000	96	165205	50.0	50.0	
25 2-Methyl-2-propanol	59	4.385	4.385	0.000	100	745936	200.0	214.4	
26 Acrylonitrile	53	4.592	4.592	0.000	100	307786	25.0	25.2	
27 Methyl tert-butyl ether	73	4.665	4.665	0.000	94	1574902	10.0	10.9	
28 trans-1,2-Dichloroethene	96	4.678	4.678	0.000	100	619693	10.0	10.8	
29 Hexane	57	5.104	5.104	0.000	91	955763	10.0	11.9	
31 1,1-Dichloroethane	63	5.336	5.336	0.000	96	1124834	10.0	10.8	
32 Isopropyl ether	45	5.391	5.391	0.000	94	1870451	10.0	10.7	
33 2-Chloro-1,3-butadiene	53	5.446	5.446	0.000	90	951023	10.0	10.9	
34 Tert-butyl ethyl ether	59	5.921	5.921	0.000	97	1838180	10.0	10.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.122	6.122	0.000	99	1563634	100.0	97.6	
37 cis-1,2-Dichloroethene	96	6.159	6.159	0.000	82	679972	10.0	10.6	
38 2,2-Dichloropropane	77	6.177	6.177	0.000	86	987902	10.0	10.9	
40 Propionitrile	54	6.208	6.208	0.000	99	903317	200.0	212.2	
42 Methacrylonitrile	67	6.427	6.427	0.000	90	1573429	100.0	97.7	
43 Chlorobromomethane	128	6.488	6.488	0.000	91	297719	10.0	10.8	
44 Tetrahydrofuran	71	6.500	6.500	0.000	77	235618	50.0	49.6	
45 Chloroform	83	6.641	6.641	0.000	93	1104772	10.0	10.7	
$ 46 Dibromofluoromethane (Surr)	113	6.854	6.854	0.000	94	533065	10.0	9.97	
47 1,1,1-Trichloroethane	97	6.866	6.866	0.000	98	1048975	10.0	10.9	
48 Cyclohexane	56	6.970	6.970	0.000	89	1113121	10.0	11.7	
50 Carbon tetrachloride	117	7.080	7.080	0.000	89	943497	10.0	11.4	
51 1,1-Dichloropropene	75	7.080	7.080	0.000	96	898023	10.0	11.1	
52 Isobutyl alcohol	41	7.214	7.214	0.000	95	570979	500.0	514.4	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.305	7.305	0.000	83	107464	10.0	10.0	
54 Benzene	78	7.342	7.342	0.000	96	2556166	10.0	10.7	
56 1,2-Dichloroethane	62	7.409	7.409	0.000	98	680372	10.0	10.5	
57 Tert-amyl methyl ether	73	7.525	7.525	0.000	99	1715769	10.0	10.8	
* 58 Fluorobenzene (IS)	96	7.744	7.744	0.000	99	2122537	10.0	10.0	
59 n-Heptane	43	7.750	7.750	0.000	92	916472	10.0	11.1	
60 n-Butanol	56	8.098	8.098	0.000	87	975208	875.0	946.5	
61 Trichloroethene	95	8.220	8.220	0.000	97	695086	10.0	10.8	
62 Methylcyclohexane	83	8.524	8.524	0.000	93	1254685	10.0	11.8	
63 1,2-Dichloropropane	63	8.549	8.549	0.000	77	645492	10.0	11.0	
64 Methyl methacrylate	69	8.628	8.628	0.000	89	320765	10.0	10.1	
65 1,4-Dioxane	88	8.640	8.640	0.000	42	153335	500.0	520.7	
66 Dibromomethane	93	8.659	8.659	0.000	93	307242	10.0	10.7	
68 Dichlorobromomethane	83	8.890	8.890	0.000	99	786321	10.0	11.1	
69 2-Nitropropane	41	9.152	9.152	0.000	98	442348	50.0	48.9	
72 1-Bromo-2-chloroethane	63	9.280	9.280	0.000	99	642543	10.0	11.2	
73 cis-1,3-Dichloropropene	75	9.433	9.433	0.000	97	999345	10.0	11.2	
74 4-Methyl-2-pentanone (MIBK)	43	9.603	9.603	0.000	96	3982955	100.0	98.7	
$ 75 Toluene-d8 (Surr)	98	9.738	9.738	0.000	93	2118631	10.0	10.0	
76 Toluene	92	9.817	9.817	0.000	98	1680421	10.0	10.7	
78 trans-1,3-Dichloropropene	75	10.067	10.067	0.000	92	822825	10.0	11.3	
79 Ethyl methacrylate	69	10.128	10.128	0.000	88	681452	10.0	11.3	
80 1,1,2-Trichloroethane	97	10.268	10.268	0.000	90	455229	10.0	10.9	
81 Tetrachloroethene	166	10.359	10.359	0.000	98	825293	10.0	11.0	
82 1,3-Dichloropropane	76	10.433	10.433	0.000	88	768446	10.0	10.8	
83 2-Hexanone	43	10.481	10.481	0.000	96	2847614	100.0	100.8	
85 Chlorodibromomethane	129	10.646	10.646	0.000	90	582989	10.0	11.4	
86 Ethylene Dibromide	107	10.762	10.762	0.000	98	442687	10.0	10.9	
* 87 Chlorobenzene-d5 (IS)	117	11.182	11.182	0.000	85	1640634	10.0	10.0	
88 1-Chlorohexane	91	11.189	11.189	0.000	95	995910	10.0	10.8	
90 Chlorobenzene	112	11.213	11.213	0.000	95	1872527	10.0	10.7	
91 1,1,1,2-Tetrachloroethane	131	11.292	11.292	0.000	96	678162	10.0	11.1	
92 Ethylbenzene	91	11.298	11.298	0.000	98	3278221	10.0	10.8	
93 m-Xylene & p-Xylene	106	11.408	11.408	0.000	100	2602971	20.0	21.8	
94 o-Xylene	106	11.737	11.737	0.000	96	1284350	10.0	10.9	
95 Styrene	104	11.756	11.756	0.000	95	2106471	10.0	11.1	
96 Bromoform	173	11.914	11.914	0.000	98	363441	10.0	11.9	
97 Isopropylbenzene	105	12.036	12.036	0.000	95	3411517	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
$ 100 4-Bromofluorobenzene (Surr)	95	12.182	12.182	0.000	93	806596	10.0	9.95	
101 1,1,2,2-Tetrachloroethane	83	12.280	12.280	0.000	93	586534	10.0	11.0	
102 Bromobenzene	156	12.298	12.298	0.000	94	800922	10.0	11.0	
103 trans-1,4-Dichloro-2-butene	53	12.304	12.304	0.000	91	1486472	100.0	101.8	
104 1,2,3-Trichloropropane	110	12.329	12.329	0.000	83	162926	10.0	11.1	
105 N-Propylbenzene	91	12.365	12.365	0.000	99	3955616	10.0	11.2	
106 2-Chlorotoluene	126	12.444	12.444	0.000	97	795839	10.0	10.9	
107 1,3,5-Trimethylbenzene	105	12.499	12.499	0.000	94	2894636	10.0	11.2	
108 4-Chlorotoluene	126	12.536	12.536	0.000	97	805714	10.0	10.9	
109 tert-Butylbenzene	134	12.743	12.743	0.000	93	633713	10.0	11.2	
110 Pentachloroethane	167	12.774	12.774	0.000	92	538681	10.0	11.8	
111 1,2,4-Trimethylbenzene	105	12.786	12.786	0.000	97	2954664	10.0	11.1	
112 sec-Butylbenzene	105	12.908	12.908	0.000	94	3649559	10.0	11.2	
113 1,3-Dichlorobenzene	146	13.005	13.005	0.000	98	1638792	10.0	11.1	
114 4-Isopropyltoluene	119	13.011	13.011	0.000	97	3231863	10.0	11.2	
* 115 1,4-Dichlorobenzene-d4	152	13.060	13.060	0.000	94	963407	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.078	13.078	0.000	95	1646605	10.0	10.9	
117 1,2,3-Trimethylbenzene	120	13.091	13.091	0.000	98	1287655	10.0	11.0	
118 Benzyl chloride	126	13.158	13.158	0.000	98	266255	10.0	12.2	
119 n-Butylbenzene	92	13.304	13.304	0.000	97	1524448	10.0	11.3	
120 1,2-Dichlorobenzene	146	13.341	13.341	0.000	99	1477507	10.0	11.0	
122 1,2-Dibromo-3-Chloropropane	155	13.883	13.883	0.000	89	99189	10.0	12.7	
123 1,3,5-Trichlorobenzene	180	14.005	14.005	0.000	98	1237730	10.0	11.5	
124 1,2,4-Trichlorobenzene	180	14.432	14.432	0.000	94	1055085	10.0	11.6	
125 Hexachlorobutadiene	225	14.511	14.511	0.000	96	421345	10.0	10.7	
126 Naphthalene	128	14.609	14.609	0.000	97	1968173	10.0	11.4	
127 1,2,3-Trichlorobenzene	180	14.755	14.755	0.000	96	892480	10.0	11.4	
134 Isopropyl alcohol	45		0.000				ND	ND	
137 2-Methylnaphthalene	142		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MSV_LL_#1_826_00015	Amount Added: 10.00	Units: uL	
MSV_LL_#2_826_00015	Amount Added: 10.00	Units: uL	
MSV_LL_GAS826_00027	Amount Added: 10.00	Units: uL	
MSV_LLcentISS_00001	Amount Added: 5.00	Units: uL	Run Reagent

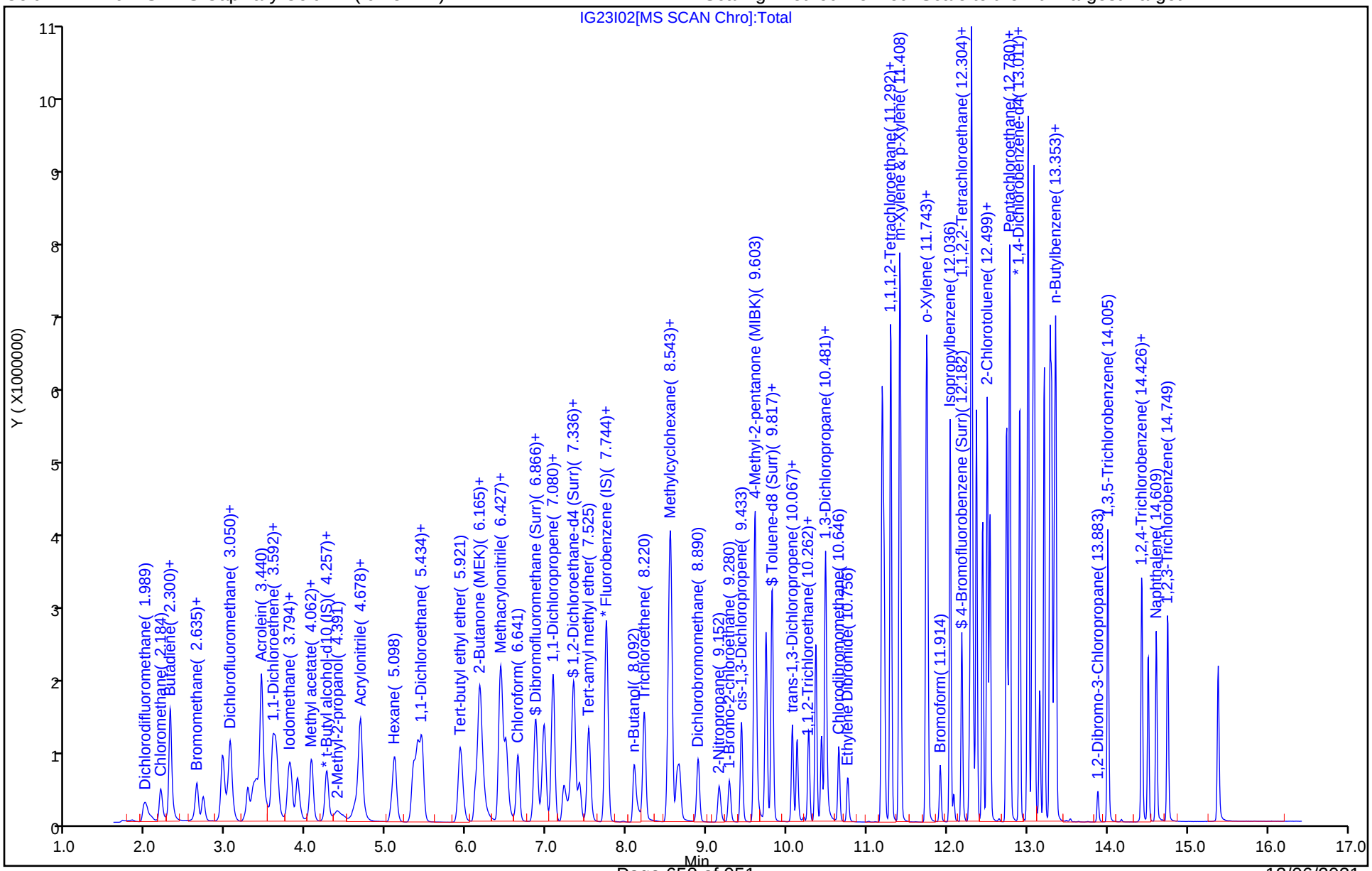
Report Date: 24-Aug-2021 15:55:07 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I02.D

Injection Date:	24-Aug-2021 01:06:30	Instrument ID:	19930	Operator ID:	mec29284
Lims ID:	ICIS - LG			Worklist Smp#:	13
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I03.D
Lims ID: IC std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 24-Aug-2021 01:27:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0037607-014
Misc. Info.: IC STD5
Operator ID: mec29284 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 24-Aug-2021 15:55:11 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1646

First Level Reviewer: longj Date: 24-Aug-2021 15:02:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.977	1.983	-0.006	99	382263	5.00	5.78	
4 Chloromethane	50	2.178	2.184	-0.006	99	399273	5.00	5.30	
6 Butadiene	39	2.294	2.300	-0.006	89	372442	5.00	5.38	
5 Vinyl chloride	62	2.294	2.300	-0.006	98	416864	5.00	5.48	
7 Bromomethane	94	2.623	2.635	-0.012	92	291289	5.00	5.29	
8 Chloroethane	64	2.709	2.715	-0.006	100	245993	5.00	5.40	
9 Dichlorofluoromethane	67	2.946	2.952	-0.006	97	585859	5.00	5.35	
10 Trichlorofluoromethane	101	3.019	3.026	-0.007	97	585022	5.00	5.97	
11 Ethyl ether	59	3.257	3.269	-0.012	91	217146	5.00	5.46	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.349	3.355	-0.006	92	389865	5.00	5.56	
13 Acrolein	56	3.434	3.440	-0.006	99	1712613	250.0	291.6	
14 1,1-Dichloroethene	96	3.574	3.580	-0.006	98	286821	5.00	5.68	
15 Acetone	43	3.605	3.611	-0.006	100	396518	50.0	53.1	
16 112TCTFE	101	3.617	3.623	-0.006	90	323788	5.00	6.14	
17 Iodomethane	142	3.775	3.781	-0.006	99	558589	5.00	5.53	
18 Ethyl bromide	108	3.800	3.812	-0.012	98	254448	5.00	5.53	
19 Carbon disulfide	76	3.885	3.891	-0.006	99	782475	5.00	5.61	
21 Methyl acetate	43	4.031	4.031	0.000	97	124512	5.00	5.67	
22 3-Chloro-1-propene	41	4.056	4.068	-0.012	91	448975	5.00	5.42	
23 Methylene Chloride	84	4.245	4.257	-0.012	91	300072	5.00	5.44	
* 24 t-Butyl alcohol-d10 (IS)	65	4.251	4.269	-0.018	95	134380	50.0	50.0	
25 2-Methyl-2-propanol	59	4.385	4.385	0.000	100	314368	100.0	111.1	
26 Acrylonitrile	53	4.592	4.592	0.000	99	149768	12.5	15.1	
27 Methyl tert-butyl ether	73	4.653	4.665	-0.012	94	795636	5.00	5.52	
28 trans-1,2-Dichloroethene	96	4.672	4.678	-0.006	99	313872	5.00	5.47	
29 Hexane	57	5.098	5.104	-0.006	91	492058	5.00	6.14	
31 1,1-Dichloroethane	63	5.330	5.336	-0.006	96	570521	5.00	5.48	
32 Isopropyl ether	45	5.385	5.391	-0.006	94	951429	5.00	5.47	
33 2-Chloro-1,3-butadiene	53	5.440	5.446	-0.006	90	487276	5.00	5.62	
34 Tert-butyl ethyl ether	59	5.915	5.921	-0.006	97	927469	5.00	5.46	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.116	6.122	-0.006	99	749581	50.0	57.5	
S 35 1,2-Dichloroethene, Total	100				0			10.9	
37 cis-1,2-Dichloroethene	96	6.153	6.159	-0.006	82	347207	5.00	5.43	
38 2,2-Dichloropropane	77	6.171	6.177	-0.006	90	505614	5.00	5.59	
40 Propionitrile	54	6.208	6.208	0.000	99	411078	100.0	118.7	
42 Methacrylonitrile	67	6.421	6.427	-0.006	90	787287	50.0	60.1	
43 Chlorobromomethane	128	6.488	6.488	0.000	91	150285	5.00	5.45	
44 Tetrahydrofuran	71	6.500	6.500	0.000	77	115070	25.0	29.8	
45 Chloroform	83	6.635	6.641	-0.006	93	561287	5.00	5.44	
$ 46 Dibromofluoromethane (Surr)	113	6.848	6.854	-0.006	94	533947	10.0	10.0	
47 1,1,1-Trichloroethane	97	6.860	6.866	-0.006	98	537958	5.00	5.62	
48 Cyclohexane	56	6.964	6.970	-0.006	89	574963	5.00	6.05	
50 Carbon tetrachloride	117	7.080	7.080	0.000	91	477332	5.00	5.77	
51 1,1-Dichloropropene	75	7.074	7.080	-0.006	95	456566	5.00	5.65	
52 Isobutyl alcohol	41	7.214	7.214	0.000	94	243578	250.0	269.8	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.299	7.305	-0.006	98	106534	10.0	10.0	
54 Benzene	78	7.336	7.342	-0.006	97	1303704	5.00	5.48	
56 1,2-Dichloroethane	62	7.409	7.409	0.000	98	345575	5.00	5.36	
57 Tert-amyl methyl ether	73	7.519	7.525	-0.006	98	854837	5.00	5.42	
* 58 Fluorobenzene (IS)	96	7.738	7.744	-0.006	99	2115642	10.0	10.0	
59 n-Heptane	43	7.750	7.750	0.000	90	473994	5.00	5.76	
60 n-Butanol	56	8.092	8.098	-0.006	87	436929	437.5	521.3	
61 Trichloroethene	95	8.214	8.220	-0.006	98	356004	5.00	5.57	
62 Methylcyclohexane	83	8.524	8.524	0.000	93	637877	5.00	6.00	
63 1,2-Dichloropropane	63	8.543	8.549	-0.006	85	323309	5.00	5.53	
64 Methyl methacrylate	69	8.622	8.628	-0.006	89	158597	5.00	6.16	
65 1,4-Dioxane	88	8.628	8.640	-0.012	61	60485	250.0	229.1	M
66 Dibromomethane	93	8.653	8.659	-0.006	93	155460	5.00	5.44	
68 Dichlorobromomethane	83	8.890	8.890	0.000	99	393721	5.00	5.56	
69 2-Nitropropane	41	9.152	9.152	0.000	98	217711	25.0	29.6	
72 1-Bromo-2-chloroethane	63	9.280	9.280	0.000	98	317759	5.00	5.54	
73 cis-1,3-Dichloropropene	75	9.433	9.433	0.000	97	498450	5.00	5.60	
74 4-Methyl-2-pentanone (MIBK)	43	9.597	9.603	-0.006	96	1950081	50.0	59.4	
$ 75 Toluene-d8 (Surr)	98	9.738	9.738	0.000	93	2113101	10.0	9.95	
76 Toluene	92	9.811	9.817	-0.006	98	865208	5.00	5.49	
S 77 1,3-Dichloropropene, Total	100				0			11.2	
78 trans-1,3-Dichloropropene	75	10.067	10.067	0.000	92	409218	5.00	5.64	
79 Ethyl methacrylate	69	10.128	10.128	0.000	88	344439	5.00	5.68	
80 1,1,2-Trichloroethane	97	10.268	10.268	0.000	91	228498	5.00	5.44	
81 Tetrachloroethene	166	10.360	10.359	0.001	98	419950	5.00	5.60	
82 1,3-Dichloropropane	76	10.433	10.433	0.000	88	389560	5.00	5.45	
83 2-Hexanone	43	10.481	10.481	0.000	96	1427211	50.0	62.1	
85 Chlorodibromomethane	129	10.646	10.646	0.000	90	290417	5.00	5.67	
86 Ethylene Dibromide	107	10.762	10.762	0.000	98	225049	5.00	5.55	
* 87 Chlorobenzene-d5 (IS)	117	11.183	11.182	0.000	86	1642811	10.0	10.0	
88 1-Chlorohexane	91	11.189	11.189	0.000	95	509095	5.00	5.53	
90 Chlorobenzene	112	11.213	11.213	0.000	96	953872	5.00	5.47	
S 89 Xylenes, Total	106				0			16.6	
91 1,1,1,2-Tetrachloroethane	131	11.292	11.292	0.000	95	336401	5.00	5.52	
92 Ethylbenzene	91	11.298	11.298	0.000	98	1673213	5.00	5.52	
93 m-Xylene & p-Xylene	106	11.408	11.408	0.000	99	1325681	10.0	11.1	
94 o-Xylene	106	11.737	11.737	0.000	96	655445	5.00	5.54	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
95 Styrene	104	11.756	11.756	0.000	95	1063582	5.00	5.57	
96 Bromoform	173	11.914	11.914	0.000	98	176181	5.00	5.75	
97 Isopropylbenzene	105	12.036	12.036	0.000	95	1737611	5.00	5.57	
$ 100 4-Bromofluorobenzene (Surr)	95	12.182	12.182	0.000	93	806331	10.0	9.94	
101 1,1,2,2-Tetrachloroethane	83	12.280	12.280	0.000	93	293036	5.00	5.50	
102 Bromobenzene	156	12.298	12.298	0.000	95	405579	5.00	5.56	
103 trans-1,4-Dichloro-2-butene	53	12.304	12.304	0.000	93	739718	50.0	62.3	
104 1,2,3-Trichloropropane	110	12.329	12.329	0.000	81	81857	5.00	5.59	
105 N-Propylbenzene	91	12.365	12.365	0.000	99	1993107	5.00	5.63	
106 2-Chlorotoluene	126	12.444	12.444	0.000	97	403661	5.00	5.55	
107 1,3,5-Trimethylbenzene	105	12.499	12.499	0.000	94	1448018	5.00	5.60	
108 4-Chlorotoluene	126	12.536	12.536	0.000	97	414612	5.00	5.59	
109 tert-Butylbenzene	134	12.743	12.743	0.000	93	319038	5.00	5.62	
110 Pentachloroethane	167	12.774	12.774	0.000	92	259289	5.00	5.66	
111 1,2,4-Trimethylbenzene	105	12.786	12.786	0.000	97	1496260	5.00	5.64	
112 sec-Butylbenzene	105	12.908	12.908	0.000	94	1842298	5.00	5.64	
113 1,3-Dichlorobenzene	146	13.005	13.005	0.000	98	812939	5.00	5.53	
114 4-Isopropyltoluene	119	13.011	13.011	0.000	97	1632038	5.00	5.64	
* 115 1,4-Dichlorobenzene-d4	152	13.060	13.060	0.000	97	963071	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.078	13.078	0.000	96	830653	5.00	5.52	
117 1,2,3-Trimethylbenzene	120	13.091	13.091	0.000	98	633734	5.00	5.40	
118 Benzyl chloride	126	13.158	13.158	0.000	98	128109	5.00	5.88	
119 n-Butylbenzene	92	13.304	13.304	0.000	98	763485	5.00	5.65	
120 1,2-Dichlorobenzene	146	13.341	13.341	0.000	99	746995	5.00	5.56	
122 1,2-Dibromo-3-Chloropropane	155	13.883	13.883	0.000	89	44921	5.00	5.74	
123 1,3,5-Trichlorobenzene	180	14.005	14.005	0.000	98	610685	5.00	5.67	
124 1,2,4-Trichlorobenzene	180	14.432	14.432	0.000	94	518320	5.00	5.71	
125 Hexachlorobutadiene	225	14.511	14.511	0.000	96	207395	5.00	5.25	
126 Naphthalene	128	14.609	14.609	0.000	97	958252	5.00	5.53	
127 1,2,3-Trichlorobenzene	180	14.755	14.755	0.000	96	439919	5.00	5.60	
134 Isopropyl alcohol	45		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
137 2-Methylnaphthalene	142		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00015	Amount Added:	5.00	Units: uL	
MSV_LL_#2_826_00015	Amount Added:	5.00	Units: uL	
MSV_LL_GAS826_00027	Amount Added:	5.00	Units: uL	
MSV_LLcentISS_00001	Amount Added:	5.00	Units: uL	Run Reagent

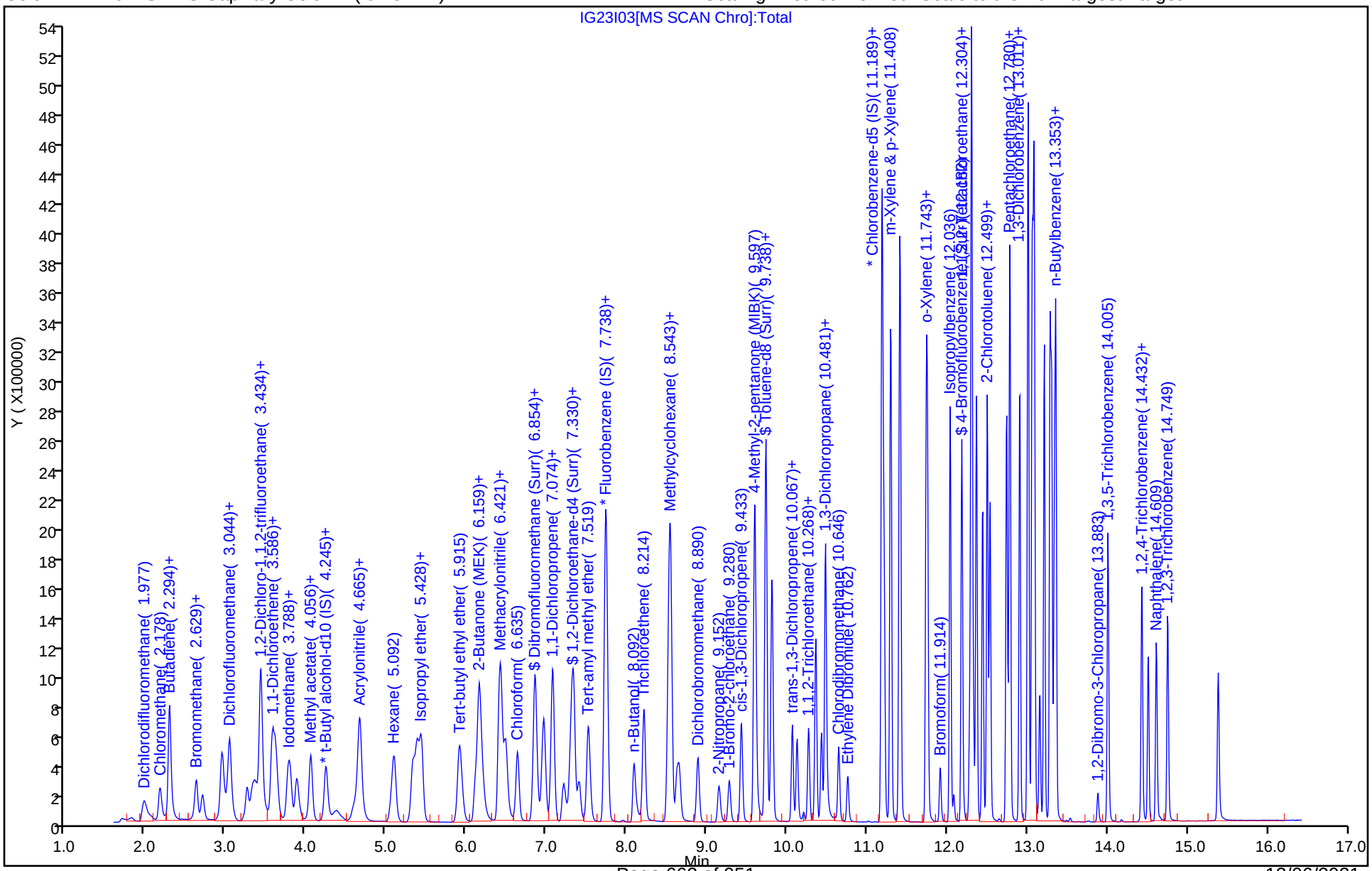
Report Date: 24-Aug-2021 15:55:12 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I03.D

Injection Date:	24-Aug-2021 01:27:30	Instrument ID:	19930	Operator ID:	mec29284
Lims ID:	IC std5			Worklist Smp#:	14
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

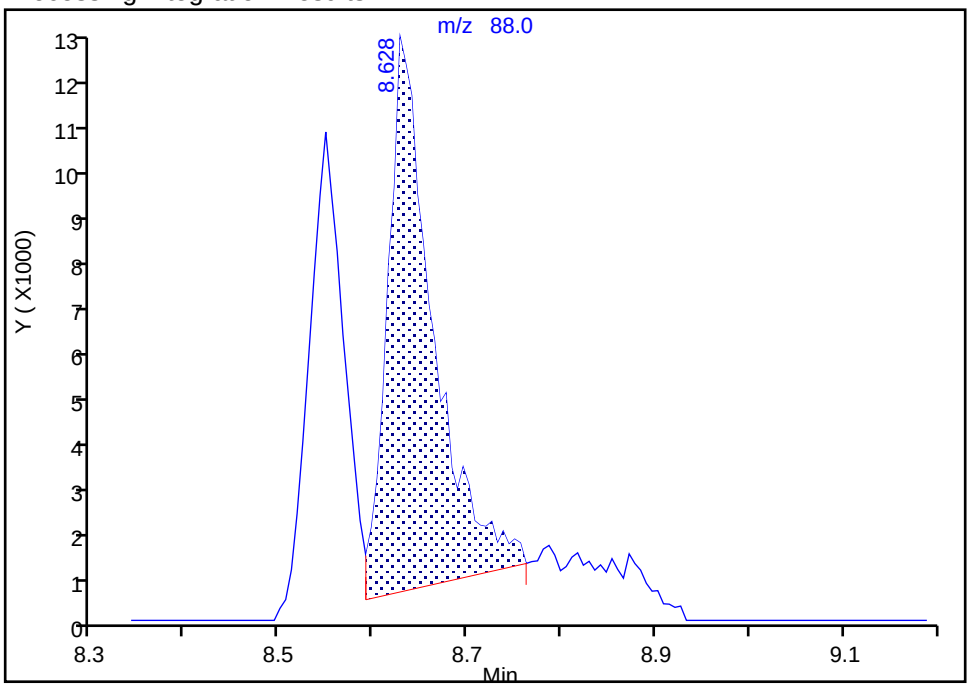
Data File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I03.D				
Injection Date:	24-Aug-2021 01:27:30	Instrument ID:	19930		
Lims ID:	IC std5				
Client ID:					
Operator ID:	mec29284	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

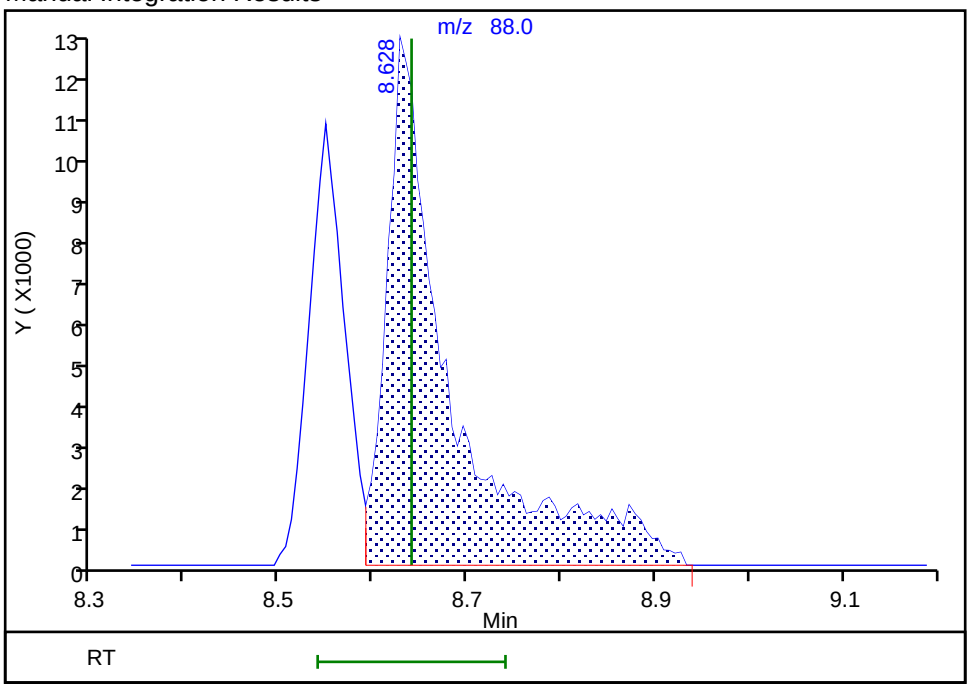
Processing Integration Results

RT: 8.63
Area: 40941
Amount: 236.6358
Amount Units: ug/l



Manual Integration Results

RT: 8.63
Area: 60485
Amount: 229.0877
Amount Units: ug/l



Reviewer: longj, 24-Aug-2021 15:02:20
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I04.D
Lims ID: IC std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 24-Aug-2021 01:48:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0037607-015
Misc. Info.: IC STD4
Operator ID: mec29284 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 24-Aug-2021 15:55:16 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1646

First Level Reviewer: longj Date: 24-Aug-2021 15:04:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.965	1.965	0.000	99	133370	2.00	1.99	
4 Chloromethane	50	2.172	2.172	0.000	99	145518	2.00	1.91	
6 Butadiene	39	2.288	2.288	0.000	89	136810	2.00	1.95	
5 Vinyl chloride	62	2.294	2.294	0.000	75	148690	2.00	1.93	
7 Bromomethane	94	2.623	2.623	0.000	92	107796	2.00	1.93	
8 Chloroethane	64	2.709	2.709	0.000	99	87256	2.00	1.89	
9 Dichlorofluoromethane	67	2.946	2.946	0.000	97	213271	2.00	1.92	
10 Trichlorofluoromethane	101	3.020	3.020	0.000	96	200068	2.00	2.02	
11 Ethyl ether	59	3.257	3.257	0.000	90	80725	2.00	2.00	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.343	3.343	0.000	91	140380	2.00	1.98	
13 Acrolein	56	3.428	3.428	0.000	99	642849	100.0	90.3	
14 1,1-Dichloroethene	96	3.568	3.568	0.000	99	94828	2.00	1.86	
15 Acetone	43	3.599	3.599	0.000	100	175187	20.0	19.4	
16 112TCTFE	101	3.611	3.611	0.000	90	101316	2.00	1.90	
17 Iodomethane	142	3.769	3.769	0.000	99	191541	2.00	1.87	
18 Ethyl bromide	108	3.794	3.794	0.000	98	90853	2.00	1.95	
19 Carbon disulfide	76	3.879	3.879	0.000	99	260459	2.00	1.85	
21 Methyl acetate	43	4.038	4.038	0.000	96	53852	2.00	2.02	
22 3-Chloro-1-propene	41	4.056	4.056	0.000	92	152579	2.00	1.82	
23 Methylene Chloride	84	4.239	4.239	0.000	91	105792	2.00	1.90	
* 24 t-Butyl alcohol-d10 (IS)	65	4.257	4.257	0.000	94	162903	50.0	50.0	M
25 2-Methyl-2-propanol	59	4.397	4.397	0.000	99	144787	40.0	42.2	
26 Acrylonitrile	53	4.592	4.592	0.000	97	56014	5.00	4.64	
27 Methyl tert-butyl ether	73	4.659	4.659	0.000	88	277645	2.00	1.90	
28 trans-1,2-Dichloroethene	96	4.672	4.672	0.000	99	107403	2.00	1.85	
29 Hexane	57	5.086	5.086	0.000	91	152797	2.00	1.88	
31 1,1-Dichloroethane	63	5.330	5.330	0.000	96	200971	2.00	1.91	
32 Isopropyl ether	45	5.385	5.385	0.000	94	334487	2.00	1.90	
33 2-Chloro-1,3-butadiene	53	5.434	5.434	0.000	91	164913	2.00	1.88	
34 Tert-butyl ethyl ether	59	5.915	5.915	0.000	96	328284	2.00	1.91	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.116	6.116	0.000	99	287542	20.0	18.2	
S 35 1,2-Dichloroethene, Total	100				0			3.72	
37 cis-1,2-Dichloroethene	96	6.159	6.159	0.000	83	121250	2.00	1.87	
38 2,2-Dichloropropane	77	6.171	6.171	0.000	77	171411	2.00	1.87	
40 Propionitrile	54	6.208	6.208	0.000	99	156726	40.0	37.3	
42 Methacrylonitrile	67	6.415	6.415	0.000	91	284046	20.0	17.9	
43 Chlorobromomethane	128	6.482	6.482	0.000	91	54068	2.00	1.94	
44 Tetrahydrofuran	71	6.494	6.494	0.000	77	42808	10.0	9.13	
45 Chloroform	83	6.635	6.635	0.000	93	196244	2.00	1.88	
$ 46 Dibromofluoromethane (Surr)	113	6.848	6.848	0.000	94	542329	10.0	10.1	
47 1,1,1-Trichloroethane	97	6.860	6.860	0.000	97	183060	2.00	1.89	
48 Cyclohexane	56	6.964	6.964	0.000	88	180314	2.00	1.88	
50 Carbon tetrachloride	117	7.067	7.067	0.000	90	158160	2.00	1.89	
51 1,1-Dichloropropene	75	7.074	7.074	0.000	95	154095	2.00	1.88	
52 Isobutyl alcohol	41	7.214	7.214	0.000	95	107772	100.0	98.5	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.299	7.299	0.000	91	108754	10.0	10.1	
54 Benzene	78	7.336	7.336	0.000	96	450649	2.00	1.87	
56 1,2-Dichloroethane	62	7.409	7.409	0.000	98	118544	2.00	1.82	
57 Tert-amyl methyl ether	73	7.519	7.519	0.000	99	305576	2.00	1.91	
* 58 Fluorobenzene (IS)	96	7.732	7.732	0.000	98	2141536	10.0	10.0	
59 n-Heptane	43	7.744	7.744	0.000	74	149822	2.00	1.80	
60 n-Butanol	56	8.098	8.098	0.000	87	173400	175.0	170.7	
61 Trichloroethene	95	8.214	8.214	0.000	97	119880	2.00	1.85	
62 Methylcyclohexane	83	8.525	8.525	0.000	91	204137	2.00	1.90	
63 1,2-Dichloropropane	63	8.543	8.543	0.000	83	113623	2.00	1.92	
64 Methyl methacrylate	69	8.628	8.628	0.000	86	56288	2.00	1.80	
65 1,4-Dioxane	88	8.640	8.640	0.000	38	27358	100.0	94.3	M
66 Dibromomethane	93	8.653	8.653	0.000	93	55146	2.00	1.91	
68 Dichlorobromomethane	83	8.890	8.890	0.000	99	135182	2.00	1.89	
69 2-Nitropropane	41	9.152	9.152	0.000	99	80872	10.0	9.06	
72 1-Bromo-2-chloroethane	63	9.280	9.280	0.000	99	116897	2.00	2.01	
73 cis-1,3-Dichloropropene	75	9.433	9.433	0.000	96	171443	2.00	1.90	
74 4-Methyl-2-pentanone (MIBK)	43	9.597	9.597	0.000	96	725808	20.0	18.2	
$ 75 Toluene-d8 (Surr)	98	9.738	9.738	0.000	93	2152292	10.0	10.1	
76 Toluene	92	9.811	9.811	0.000	98	294006	2.00	1.85	
S 77 1,3-Dichloropropene, Total	100				0			3.80	
78 trans-1,3-Dichloropropene	75	10.067	10.067	0.000	92	138743	2.00	1.90	
79 Ethyl methacrylate	69	10.128	10.128	0.000	88	121040	2.00	1.98	
80 1,1,2-Trichloroethane	97	10.268	10.268	0.000	91	81343	2.00	1.92	
81 Tetrachloroethene	166	10.360	10.360	0.000	98	142779	2.00	1.89	
82 1,3-Dichloropropane	76	10.433	10.433	0.000	89	137217	2.00	1.91	
83 2-Hexanone	43	10.481	10.481	0.000	96	503437	20.0	18.1	
85 Chlorodibromomethane	129	10.646	10.646	0.000	89	97832	2.00	1.90	
86 Ethylene Dibromide	107	10.756	10.756	0.000	98	77838	2.00	1.91	
* 87 Chlorobenzene-d5 (IS)	117	11.183	11.183	0.000	86	1654646	10.0	10.0	
88 1-Chlorohexane	91	11.189	11.189	0.000	95	170447	2.00	1.84	
90 Chlorobenzene	112	11.213	11.213	0.000	97	331442	2.00	1.89	
S 89 Xylenes, Total	106				0			5.67	
91 1,1,1,2-Tetrachloroethane	131	11.292	11.292	0.000	94	117075	2.00	1.91	
92 Ethylbenzene	91	11.298	11.298	0.000	98	572417	2.00	1.87	
93 m-Xylene & p-Xylene	106	11.408	11.408	0.000	100	455535	4.00	3.78	
94 o-Xylene	106	11.737	11.737	0.000	96	225160	2.00	1.89	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
95 Styrene	104	11.756	11.756	0.000	95	364056	2.00	1.89	
96 Bromoform	173	11.914	11.914	0.000	97	57249	2.00	1.85	
97 Isopropylbenzene	105	12.036	12.036	0.000	96	598946	2.00	1.91	
$ 100 4-Bromofluorobenzene (Surr)	95	12.182	12.182	0.000	93	815520	10.0	9.98	
101 1,1,2,2-Tetrachloroethane	83	12.280	12.280	0.000	93	102513	2.00	1.88	
102 Bromobenzene	156	12.298	12.298	0.000	95	140306	2.00	1.88	
103 trans-1,4-Dichloro-2-butene	53	12.304	12.304	0.000	93	256704	20.0	17.8	
104 1,2,3-Trichloropropane	110	12.329	12.329	0.000	81	28724	2.00	1.92	
105 N-Propylbenzene	91	12.365	12.365	0.000	99	684747	2.00	1.89	
106 2-Chlorotoluene	126	12.444	12.444	0.000	98	141927	2.00	1.91	
107 1,3,5-Trimethylbenzene	105	12.499	12.499	0.000	93	494667	2.00	1.87	
108 4-Chlorotoluene	126	12.536	12.536	0.000	97	142990	2.00	1.89	
109 tert-Butylbenzene	134	12.743	12.743	0.000	93	110262	2.00	1.90	
110 Pentachloroethane	167	12.774	12.774	0.000	90	91381	2.00	1.95	
111 1,2,4-Trimethylbenzene	105	12.786	12.786	0.000	97	508634	2.00	1.88	
112 sec-Butylbenzene	105	12.902	12.902	0.000	94	633668	2.00	1.90	
113 1,3-Dichlorobenzene	146	13.005	13.005	0.000	98	279932	2.00	1.86	
114 4-Isopropyltoluene	119	13.011	13.011	0.000	97	558603	2.00	1.89	
* 115 1,4-Dichlorobenzene-d4	152	13.060	13.060	0.000	94	984300	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.079	13.079	0.000	96	287369	2.00	1.87	
117 1,2,3-Trimethylbenzene	120	13.085	13.085	0.000	98	228500	2.00	1.91	
118 Benzyl chloride	126	13.158	13.158	0.000	98	42047	2.00	1.89	
119 n-Butylbenzene	92	13.304	13.304	0.000	97	258320	2.00	1.87	
120 1,2-Dichlorobenzene	146	13.341	13.341	0.000	99	264385	2.00	1.92	
122 1,2-Dibromo-3-Chloropropane	155	13.883	13.883	0.000	87	16104	2.00	2.01	
123 1,3,5-Trichlorobenzene	180	14.005	14.005	0.000	97	206620	2.00	1.88	
124 1,2,4-Trichlorobenzene	180	14.432	14.432	0.000	94	177445	2.00	1.91	
125 Hexachlorobutadiene	225	14.511	14.511	0.000	96	71973	2.00	1.78	
126 Naphthalene	128	14.609	14.609	0.000	97	351951	2.00	1.99	
127 1,2,3-Trichlorobenzene	180	14.755	14.755	0.000	96	155892	2.00	1.94	
134 Isopropyl alcohol	45		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
137 2-Methylnaphthalene	142		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00015	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00015	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00027	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00001	Amount Added:	5.00	Units: uL	Run Reagent

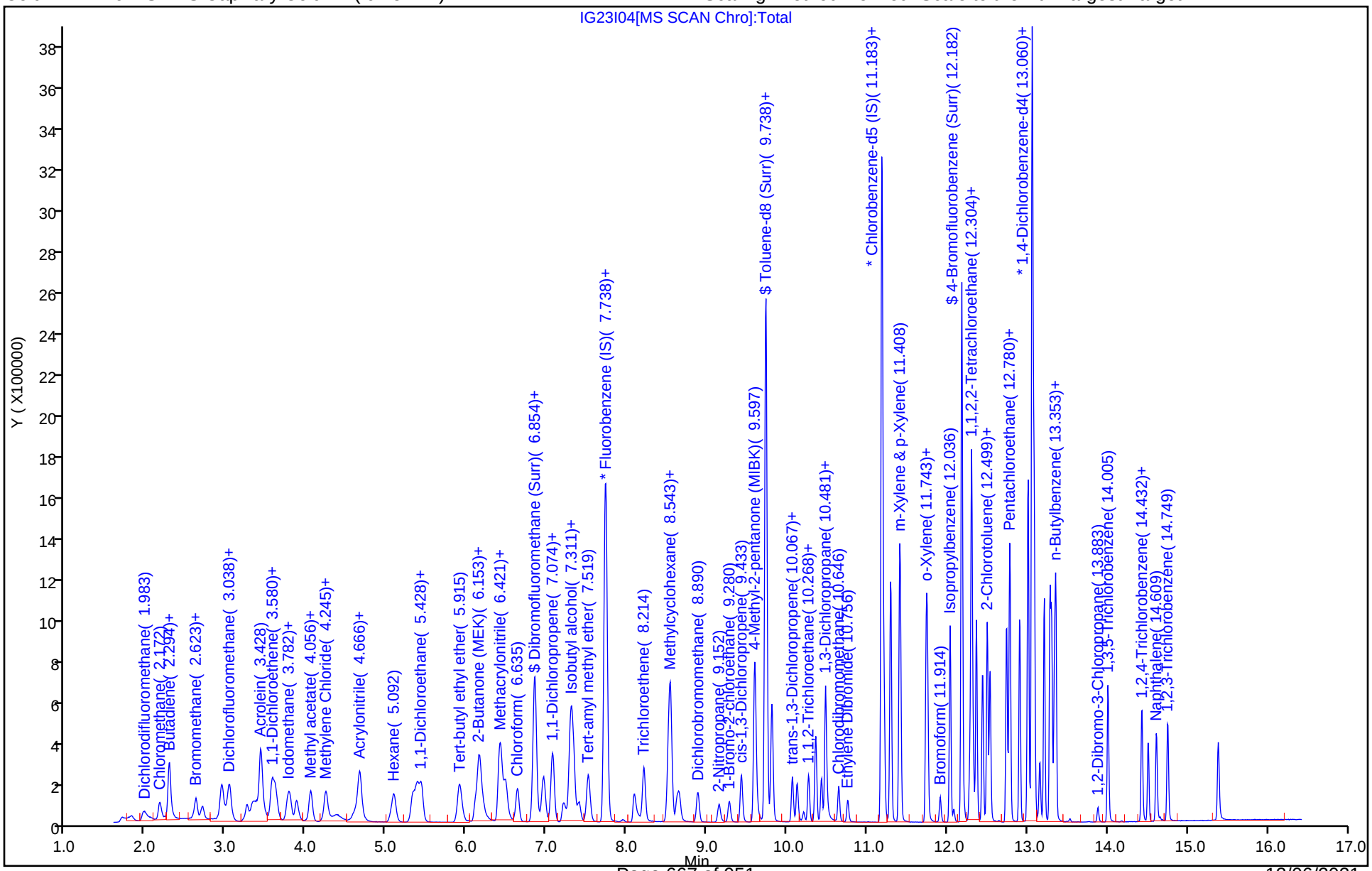
Report Date: 24-Aug-2021 15:55:17 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I04.D

Injection Date:	24-Aug-2021 01:48:30	Instrument ID:	19930	Operator ID:	mec29284
Lims ID:	IC std4			Worklist Smp#:	15
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

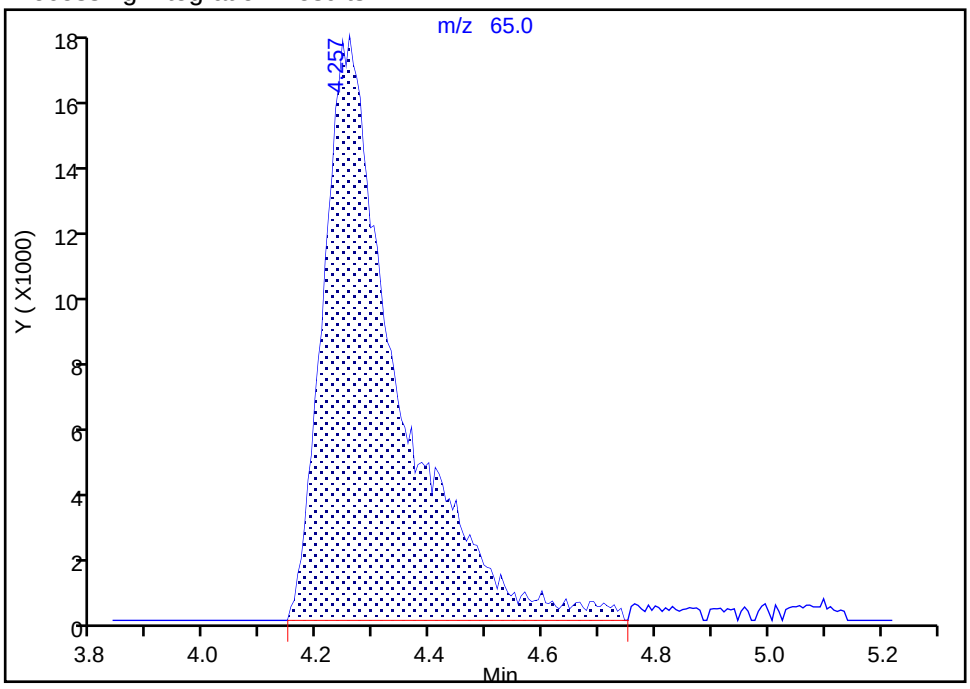
Data File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I04.D
Injection Date: 24-Aug-2021 01:48:30 Instrument ID: 19930
Lims ID: IC std4
Client ID:
Operator ID: mec29284 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 24 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

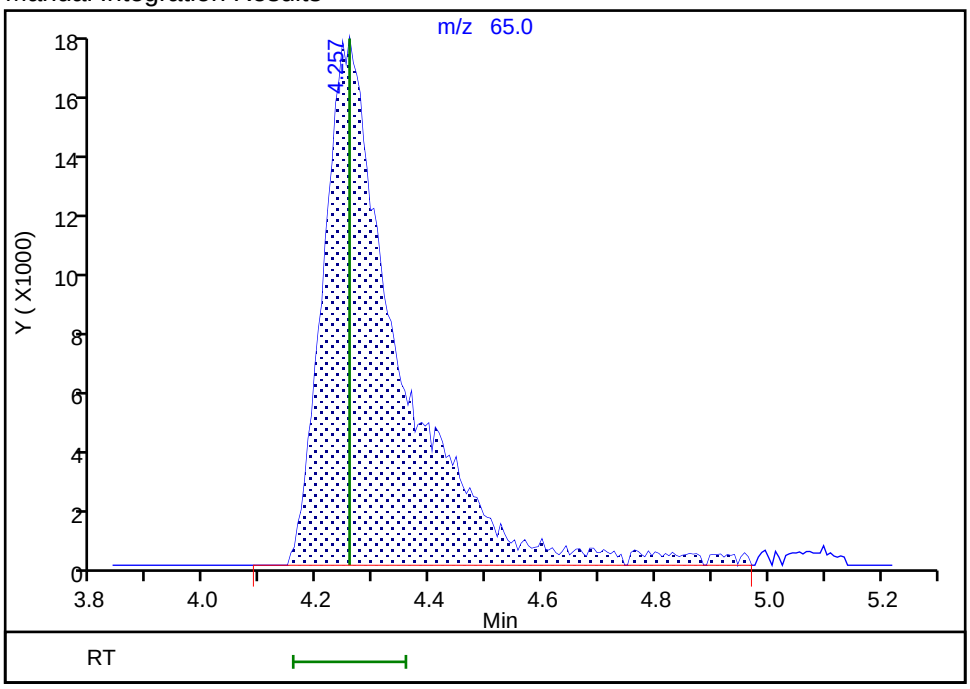
Processing Integration Results

RT: 4.26
Area: 158849
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.26
Area: 162903
Amount: 50.000000
Amount Units: ug/l



Reviewer: longj, 24-Aug-2021 15:16:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

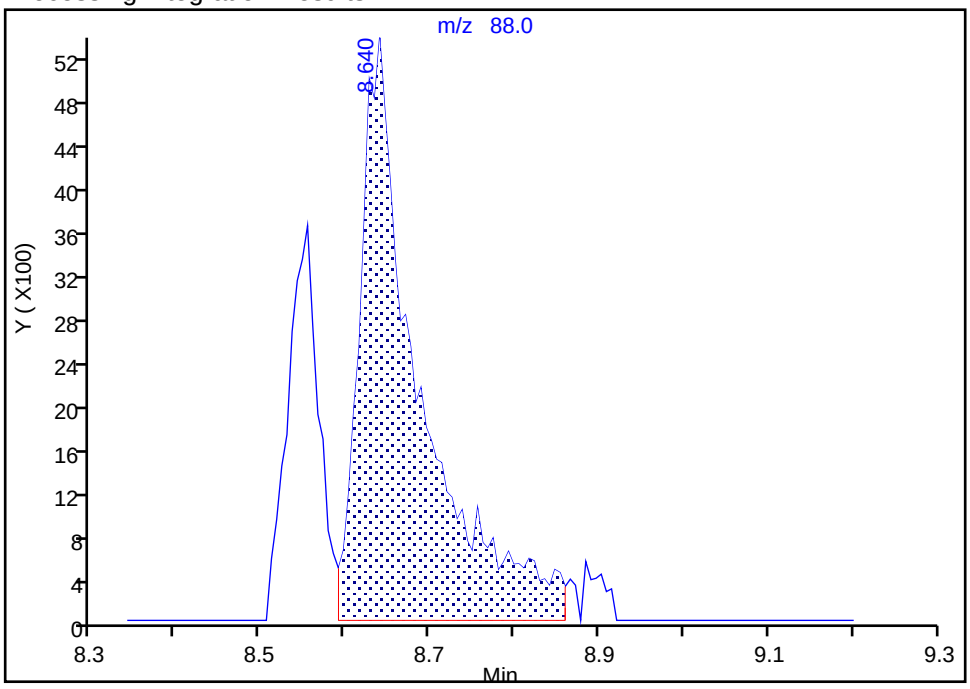
Data File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I04.D				
Injection Date:	24-Aug-2021 01:48:30	Instrument ID:	19930		
Lims ID:	IC std4				
Client ID:					
Operator ID:	mec29284	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

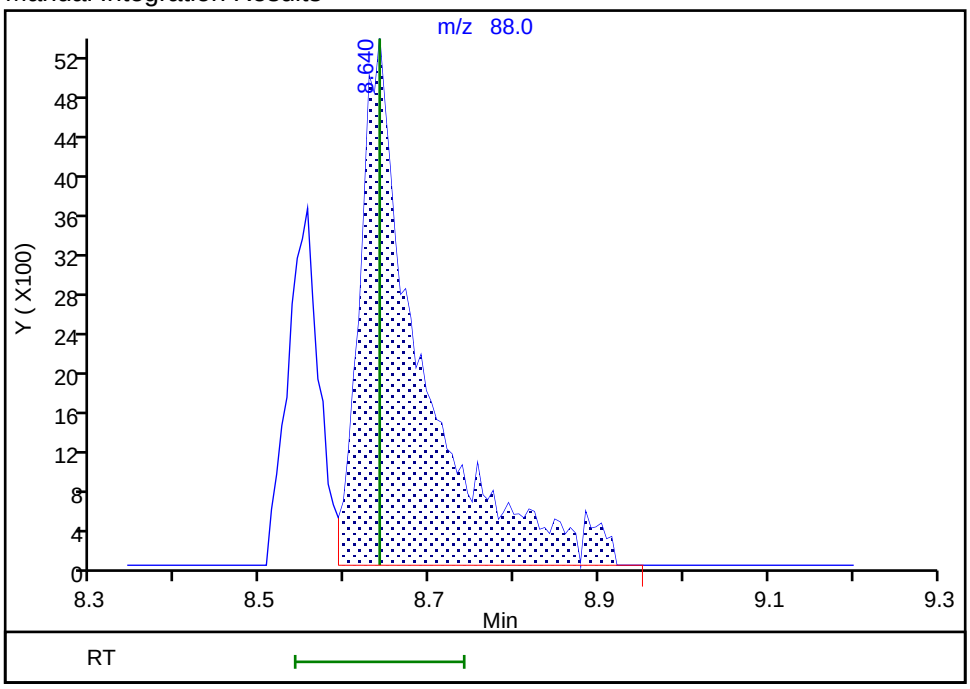
Processing Integration Results

RT: 8.64
Area: 26261
Amount: 119.8515
Amount Units: ug/l



Manual Integration Results

RT: 8.64
Area: 27358
Amount: 94.303495
Amount Units: ug/l



Reviewer: longj, 24-Aug-2021 15:15:48
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I05.D
Lims ID: IC std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 24-Aug-2021 02:09:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0037607-016
Misc. Info.: IC STD3
Operator ID: mec29284 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 24-Aug-2021 15:55:22 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1646

First Level Reviewer: longj Date: 24-Aug-2021 15:07:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.977	1.965	0.012	99	65891	1.00	0.9718	
4 Chloromethane	50	2.178	2.172	0.006	99	71033	1.00	0.9196	
6 Butadiene	39	2.294	2.288	0.006	91	69705	1.00	0.9823	
5 Vinyl chloride	62	2.294	2.294	0.000	72	72933	1.00	0.9365	
7 Bromomethane	94	2.629	2.623	0.006	91	52904	1.00	0.9375	
8 Chloroethane	64	2.709	2.709	0.000	99	44138	1.00	0.9455	
9 Dichlorofluoromethane	67	2.946	2.946	0.000	97	105130	1.00	0.9365	
10 Trichlorofluoromethane	101	3.019	3.020	-0.001	97	100534	1.00	1.00	
11 Ethyl ether	59	3.263	3.257	0.006	90	37819	1.00	0.9277	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.361	3.343	0.018	91	68921	1.00	0.9587	
13 Acrolein	56	3.434	3.428	0.006	99	325453	50.0	52.0	
14 1,1-Dichloroethene	96	3.574	3.568	0.006	98	51944	1.00	1.00	
15 Acetone	43	3.617	3.599	0.018	97	73600	10.0	9.26	M
16 112TCTFE	101	3.623	3.611	0.012	90	55518	1.00	1.03	
17 Iodomethane	142	3.775	3.769	0.006	99	102843	1.00	0.99	
18 Ethyl bromide	108	3.800	3.794	0.006	99	43980	1.00	0.9328	
19 Carbon disulfide	76	3.885	3.879	0.006	99	135959	1.00	0.9520	
21 Methyl acetate	43	4.044	4.038	0.006	40	20743	1.00	0.8865	
22 3-Chloro-1-propene	41	4.062	4.056	0.006	90	82613	1.00	0.9734	
23 Methylene Chloride	84	4.245	4.239	0.006	91	55257	1.00	0.9785	
* 24 t-Butyl alcohol-d10 (IS)	65	4.263	4.257	0.006	92	143084	50.0	50.0	
25 2-Methyl-2-propanol	59	4.385	4.397	-0.012	99	58831	20.0	19.5	
26 Acrylonitrile	53	4.611	4.592	0.019	98	27336	2.50	2.58	
27 Methyl tert-butyl ether	73	4.647	4.659	-0.012	94	145601	1.00	0.9865	
28 trans-1,2-Dichloroethene	96	4.672	4.672	0.000	99	57886	1.00	0.9851	
29 Hexane	57	5.104	5.086	0.018	91	80465	1.00	0.9806	
31 1,1-Dichloroethane	63	5.330	5.330	0.000	96	103998	1.00	0.9753	
32 Isopropyl ether	45	5.385	5.385	0.000	94	174418	1.00	0.9792	
33 2-Chloro-1,3-butadiene	53	5.440	5.434	0.006	90	86951	1.00	0.9780	
34 Tert-butyl ethyl ether	59	5.909	5.915	-0.006	97	171468	1.00	0.9844	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.116	6.116	0.000	100	143475	10.0	10.3	
S 35 1,2-Dichloroethene, Total	100				0			1.97	
37 cis-1,2-Dichloroethene	96	6.159	6.159	0.000	82	64220	1.00	0.9810	
38 2,2-Dichloropropane	77	6.171	6.171	0.000	88	91101	1.00	0.9826	
40 Propionitrile	54	6.214	6.208	0.006	98	75368	20.0	20.4	
42 Methacrylonitrile	67	6.421	6.415	0.006	92	143284	10.0	10.3	
43 Chlorobromomethane	128	6.488	6.482	0.006	86	28049	1.00	0.99	
44 Tetrahydrofuran	71	6.494	6.494	0.000	69	21437	5.00	5.21	
45 Chloroform	83	6.641	6.635	0.006	93	104933	1.00	0.99	
$ 46 Dibromofluoromethane (Surr)	113	6.854	6.848	0.006	94	547419	10.0	10.0	
47 1,1,1-Trichloroethane	97	6.860	6.860	0.000	97	97208	1.00	0.99	
48 Cyclohexane	56	6.964	6.964	0.000	89	97677	1.00	1.00	
50 Carbon tetrachloride	117	7.080	7.067	0.013	92	83203	1.00	0.9821	
51 1,1-Dichloropropene	75	7.080	7.074	0.006	95	81553	1.00	0.9849	
52 Isobutyl alcohol	41	7.214	7.214	0.000	92	49738	50.0	51.7	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.299	7.299	0.000	85	108914	10.0	9.97	
54 Benzene	78	7.336	7.336	0.000	94	239616	1.00	0.9831	
56 1,2-Dichloroethane	62	7.403	7.409	-0.006	98	65256	1.00	0.9882	
57 Tert-amyl methyl ether	73	7.525	7.519	0.006	98	157576	1.00	0.9745	
* 58 Fluorobenzene (IS)	96	7.738	7.732	0.006	99	2167768	10.0	10.0	
59 n-Heptane	43	7.744	7.744	0.000	82	83896	1.00	0.99	
60 n-Butanol	56	8.098	8.098	0.000	88	80599	87.5	90.3	
61 Trichloroethene	95	8.220	8.214	0.006	97	63618	1.00	0.9712	
62 Methylcyclohexane	83	8.525	8.525	-0.001	93	107529	1.00	0.9870	
63 1,2-Dichloropropane	63	8.543	8.543	0.000	72	59643	1.00	1.00	
64 Methyl methacrylate	69	8.628	8.628	0.000	87	28845	1.00	1.05	
65 1,4-Dioxane	88	8.646	8.640	0.006	37	10496	50.0	52.8	M
66 Dibromomethane	93	8.659	8.653	0.006	93	28100	1.00	0.9605	
68 Dichlorobromomethane	83	8.890	8.890	0.000	99	68991	1.00	0.9508	
69 2-Nitropropane	41	9.152	9.152	0.000	99	40821	5.00	5.21	
72 1-Bromo-2-chloroethane	63	9.280	9.280	0.000	98	54880	1.00	0.9343	
73 cis-1,3-Dichloropropene	75	9.433	9.433	0.000	96	87948	1.00	0.9647	
74 4-Methyl-2-pentanone (MIBK)	43	9.597	9.597	0.000	96	362286	10.0	10.4	
$ 75 Toluene-d8 (Surr)	98	9.738	9.738	0.000	93	2163909	10.0	10.1	
76 Toluene	92	9.811	9.811	0.000	98	156583	1.00	0.9842	
S 77 1,3-Dichloropropene, Total	100				0			1.92	
78 trans-1,3-Dichloropropene	75	10.067	10.067	0.000	92	70216	1.00	0.9572	
79 Ethyl methacrylate	69	10.128	10.128	0.000	88	58617	1.00	0.9574	
80 1,1,2-Trichloroethane	97	10.268	10.268	0.000	91	41236	1.00	0.9717	
81 Tetrachloroethene	166	10.360	10.360	0.000	98	73750	1.00	0.9730	
82 1,3-Dichloropropane	76	10.433	10.433	0.000	91	71333	1.00	0.9884	
83 2-Hexanone	43	10.481	10.481	0.000	95	250322	10.0	10.2	
85 Chlorodibromomethane	129	10.646	10.646	0.000	90	49956	1.00	0.9660	
86 Ethylene Dibromide	107	10.762	10.756	0.006	98	40746	1.00	1.00	
* 87 Chlorobenzene-d5 (IS)	117	11.183	11.183	0.000	87	1659651	10.0	10.0	
88 1-Chlorohexane	91	11.189	11.189	0.000	96	89057	1.00	0.9572	
90 Chlorobenzene	112	11.213	11.213	0.000	95	173851	1.00	0.9865	
S 89 Xylenes, Total	106				0			2.95	
91 1,1,1,2-Tetrachloroethane	131	11.292	11.292	0.000	95	59106	1.00	0.9605	
92 Ethylbenzene	91	11.298	11.298	0.000	98	300446	1.00	0.9807	
93 m-Xylene & p-Xylene	106	11.408	11.408	0.000	99	239751	2.00	1.98	
94 o-Xylene	106	11.737	11.737	0.000	96	115204	1.00	0.9645	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
95 Styrene	104	11.756	11.756	0.000	94	189931	1.00	0.9850	
96 Bromoform	173	11.914	11.914	0.000	97	28833	1.00	0.9307	
97 Isopropylbenzene	105	12.036	12.036	0.000	95	310386	1.00	0.9844	
$ 100 4-Bromofluorobenzene (Surr)	95	12.182	12.182	0.000	92	826851	10.0	10.1	
101 1,1,2,2-Tetrachloroethane	83	12.280	12.280	0.000	92	54325	1.00	0.99	
102 Bromobenzene	156	12.298	12.298	0.000	95	72358	1.00	0.9669	
103 trans-1,4-Dichloro-2-butene	53	12.304	12.304	0.000	91	127777	10.0	10.1	
104 1,2,3-Trichloropropane	110	12.329	12.329	0.000	80	14746	1.00	0.9823	
105 N-Propylbenzene	91	12.365	12.365	0.000	99	355852	1.00	0.9796	
106 2-Chlorotoluene	126	12.444	12.444	0.000	97	74353	1.00	1.00	
107 1,3,5-Trimethylbenzene	105	12.499	12.499	0.000	95	257721	1.00	0.9715	
108 4-Chlorotoluene	126	12.536	12.536	0.000	97	75316	1.00	0.9895	
109 tert-Butylbenzene	134	12.743	12.743	0.000	93	56868	1.00	0.9775	
110 Pentachloroethane	167	12.774	12.774	0.000	78	43712	1.00	0.9303	
111 1,2,4-Trimethylbenzene	105	12.786	12.786	0.000	97	268890	1.00	0.9889	
112 sec-Butylbenzene	105	12.908	12.902	0.006	94	328234	1.00	0.9791	
113 1,3-Dichlorobenzene	146	13.005	13.005	0.000	98	150321	1.00	1.00	
114 4-Isopropyltoluene	119	13.011	13.011	0.000	97	288208	1.00	0.9719	
* 115 1,4-Dichlorobenzene-d4	152	13.060	13.060	0.000	94	987778	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.078	13.079	-0.001	95	151116	1.00	0.9797	
117 1,2,3-Trimethylbenzene	120	13.091	13.085	0.006	97	119238	1.00	0.99	
118 Benzyl chloride	126	13.158	13.158	0.000	98	21047	1.00	0.9420	
119 n-Butylbenzene	92	13.304	13.304	0.000	98	134228	1.00	0.9686	
120 1,2-Dichlorobenzene	146	13.341	13.341	0.000	98	136312	1.00	0.9885	
122 1,2-Dibromo-3-Chloropropane	155	13.883	13.883	0.000	85	7659	1.00	0.9535	
123 1,3,5-Trichlorobenzene	180	14.005	14.005	0.000	98	105716	1.00	0.9573	
124 1,2,4-Trichlorobenzene	180	14.432	14.432	0.000	94	91280	1.00	0.9796	
125 Hexachlorobutadiene	225	14.511	14.511	0.000	96	37885	1.00	0.9359	
126 Naphthalene	128	14.609	14.609	0.000	97	173919	1.00	0.9794	
127 1,2,3-Trichlorobenzene	180	14.755	14.755	0.000	96	78245	1.00	0.9717	
134 Isopropyl alcohol	45		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
137 2-Methylnaphthalene	142		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00015	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00015	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00027	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00001	Amount Added:	5.00	Units: uL	Run Reagent

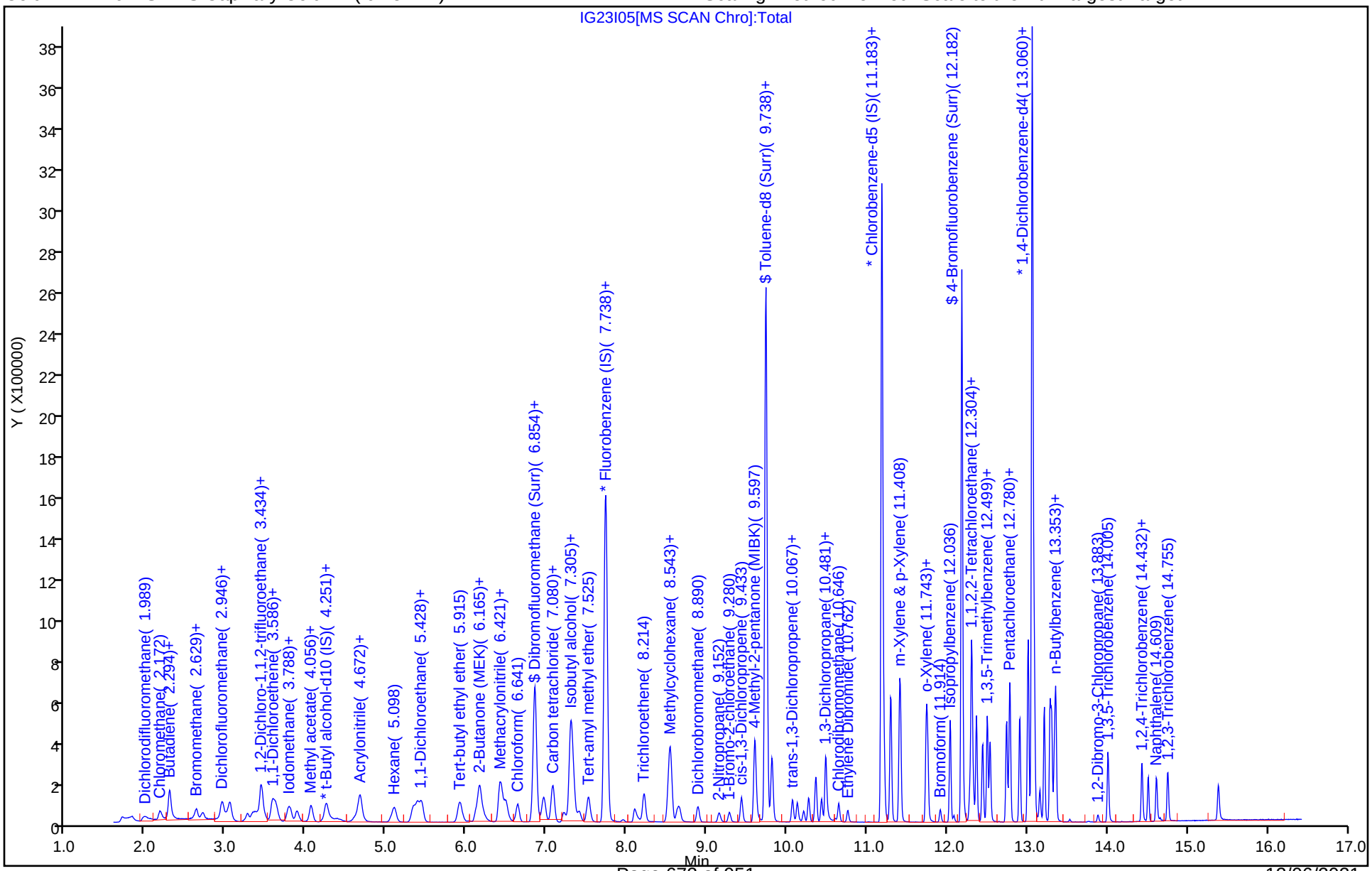
Report Date: 24-Aug-2021 15:55:22 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I05.D

Injection Date:	24-Aug-2021 02:09:30	Instrument ID:	19930	Operator ID:	mec29284
Lims ID:	IC std3			Worklist Smp#:	16
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

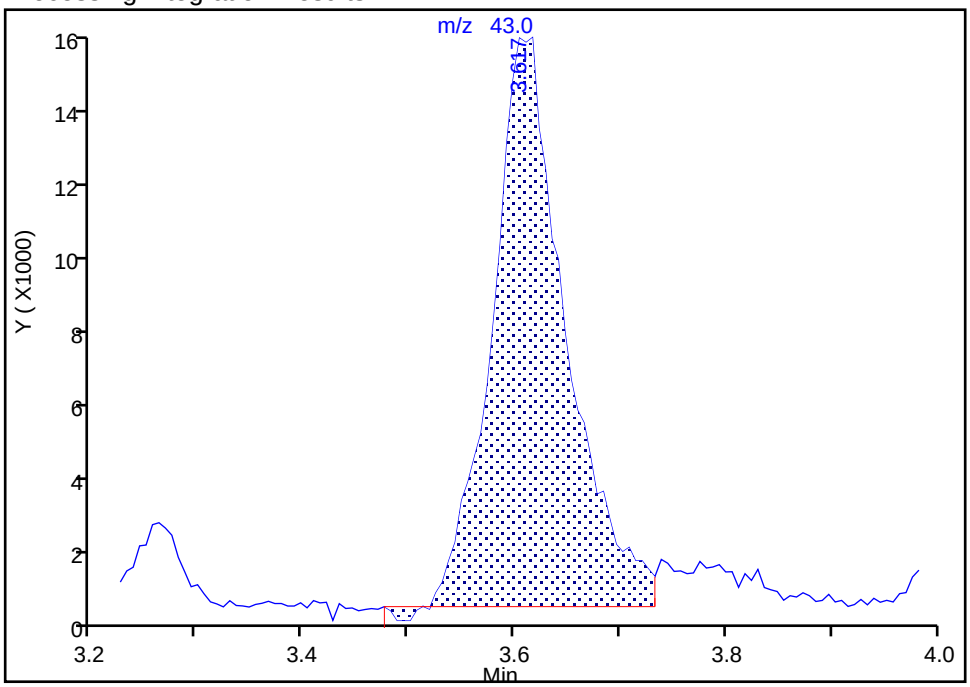
Data File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I05.D				
Injection Date:	24-Aug-2021 02:09:30	Instrument ID:	19930		
Lims ID:	IC std3				
Client ID:					
Operator ID:	mec29284	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

15 Acetone, CAS: 67-64-1

Signal: 1

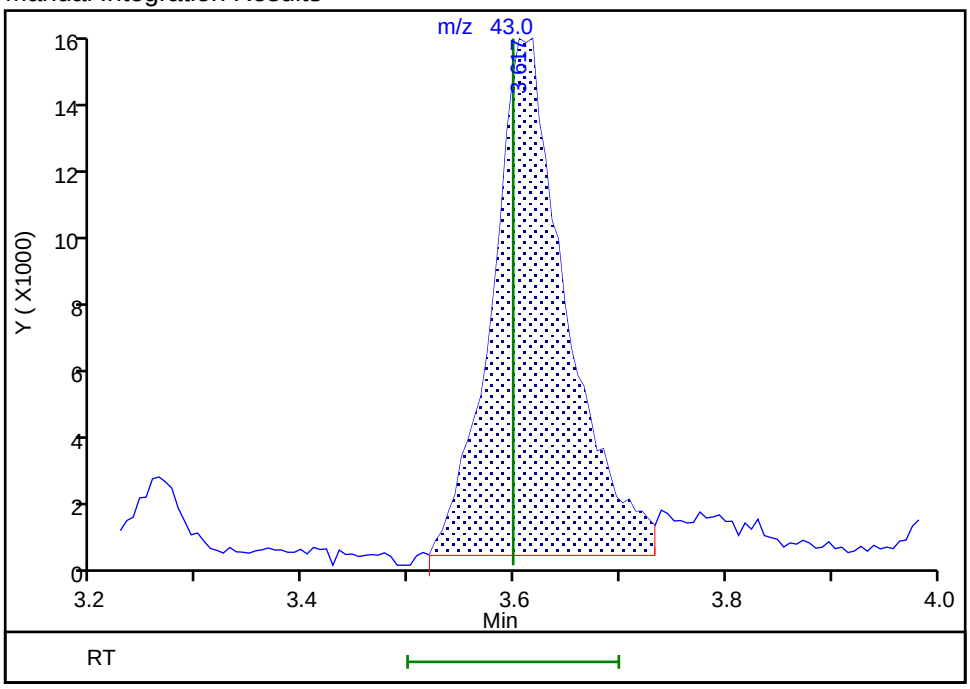
Processing Integration Results

RT: 3.62
Area: 72163
Amount: 9.070107
Amount Units: ug/l



Manual Integration Results

RT: 3.62
Area: 73600
Amount: 9.259476
Amount Units: ug/l



Reviewer: longj, 24-Aug-2021 15:05:40
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

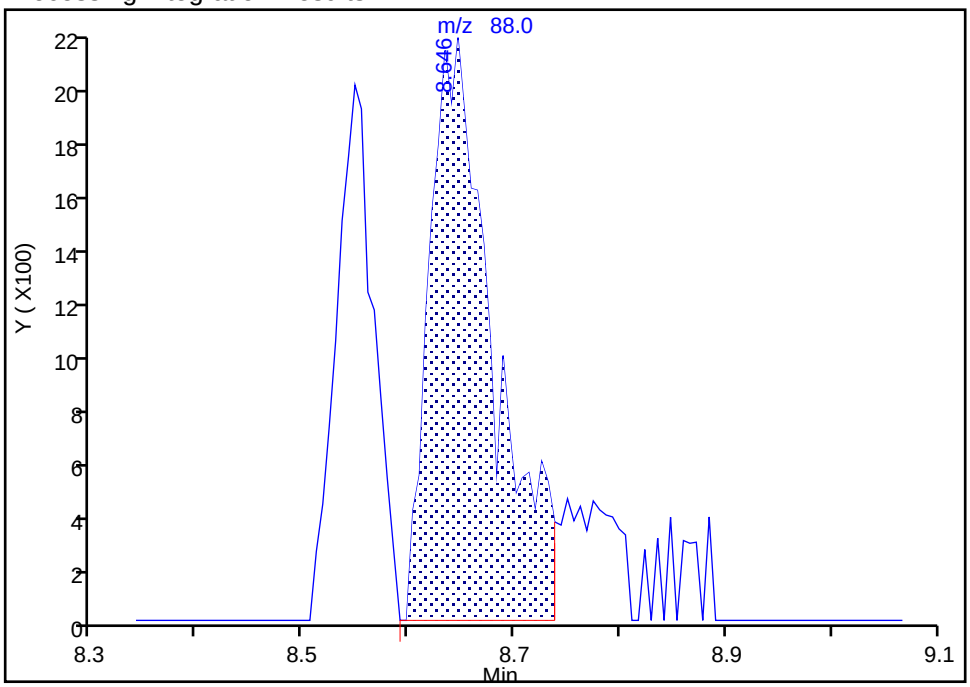
Data File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I05.D				
Injection Date:	24-Aug-2021 02:09:30	Instrument ID:	19930		
Lims ID:	IC std3				
Client ID:					
Operator ID:	mec29284	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

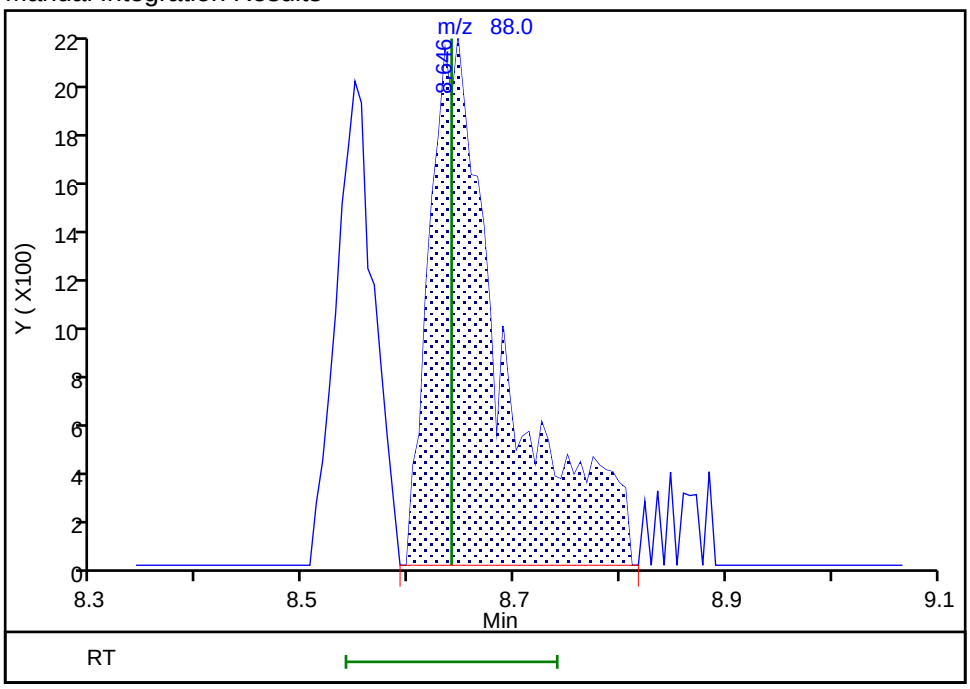
Processing Integration Results

RT: 8.65
Area: 8965
Amount: 45.300089
Amount Units: ug/l



Manual Integration Results

RT: 8.65
Area: 10496
Amount: 52.840483
Amount Units: ug/l



Reviewer: longj, 24-Aug-2021 15:17:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I06.D
Lims ID: IC std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 24-Aug-2021 02:30:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0037607-017
Misc. Info.: IC STD2
Operator ID: mec29284 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 24-Aug-2021 15:55:27 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1646

First Level Reviewer: longj Date: 24-Aug-2021 15:08:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.983	1.965	0.018	98	23341	0.5000	0.3127	
4 Chloromethane	50	2.178	2.172	0.006	99	42004	0.5000	0.4939	
6 Butadiene	39	2.300	2.288	0.012	93	33180	0.5000	0.4247	
5 Vinyl chloride	62	2.294	2.294	0.000	81	37981	0.5000	0.4430	
7 Bromomethane	94	2.629	2.623	0.006	91	30163	0.5000	0.4855	
8 Chloroethane	64	2.715	2.709	0.006	99	24539	0.5000	0.4775	
9 Dichlorofluoromethane	67	2.952	2.946	0.006	97	57981	0.5000	0.4691	
10 Trichlorofluoromethane	101	3.026	3.020	0.006	96	39345	0.5000	0.3561	
11 Ethyl ether	59	3.269	3.257	0.012	90	19745	0.5000	0.4400	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.349	3.343	0.006	91	33147	0.5000	0.4188	
13 Acrolein	56	3.446	3.428	0.018	98	164868	25.0	23.2	
14 1,1-Dichloroethene	96	3.580	3.568	0.012	98	25406	0.5000	0.4460	
15 Acetone	43	3.617	3.599	0.018	99	42743	5.00	4.73	
16 112TCTFE	101	3.629	3.611	0.018	87	23135	0.5000	0.3890	
17 Iodomethane	142	3.775	3.769	0.006	99	54663	0.5000	0.4801	
18 Ethyl bromide	108	3.812	3.794	0.018	97	23524	0.4997	0.4532	
19 Carbon disulfide	76	3.891	3.879	0.012	99	72614	0.5000	0.4619	
21 Methyl acetate	43	4.050	4.038	0.012	90	10814	0.5000	0.4066	M
22 3-Chloro-1-propene	41	4.068	4.056	0.012	91	44817	0.5000	0.4797	
23 Methylene Chloride	84	4.251	4.239	0.012	90	29677	0.5000	0.4774	
* 24 t-Butyl alcohol-d10 (IS)	65	4.263	4.257	0.006	99	162651	50.0	50.0	
25 2-Methyl-2-propanol	59	4.410	4.397	0.013	100	30939	10.0	9.03	
26 Acrylonitrile	53	4.623	4.592	0.031	81	13208	1.25	1.10	
27 Methyl tert-butyl ether	73	4.659	4.659	0.000	87	74896	0.5000	0.4610	
28 trans-1,2-Dichloroethene	96	4.678	4.672	0.006	99	30641	0.5000	0.4737	
29 Hexane	57	5.105	5.086	0.018	91	34316	0.5000	0.3799	
31 1,1-Dichloroethane	63	5.336	5.330	0.006	96	56931	0.5000	0.4849	
32 Isopropyl ether	45	5.391	5.385	0.006	97	92363	0.5000	0.4710	
33 2-Chloro-1,3-butadiene	53	5.452	5.434	0.018	91	44829	0.5000	0.4580	
34 Tert-butyl ethyl ether	59	5.921	5.915	0.006	97	89795	0.5000	0.4683	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.129	6.116	0.013	99	77869	5.00	4.94	
S 35 1,2-Dichloroethene, Total	100				0			0.9359	
37 cis-1,2-Dichloroethene	96	6.165	6.159	0.006	82	33313	0.5000	0.4622	
38 2,2-Dichloropropane	77	6.171	6.171	0.000	69	48330	0.5000	0.4735	
40 Propionitrile	54	6.226	6.208	0.018	91	37944	10.0	9.06	
42 Methacrylonitrile	67	6.427	6.415	0.012	90	73898	5.00	4.66	
43 Chlorobromomethane	128	6.494	6.482	0.012	89	14686	0.5000	0.4722	
44 Tetrahydrofuran	71	6.494	6.494	0.000	76	10321	2.50	2.21	
45 Chloroform	83	6.641	6.635	0.006	93	55513	0.5000	0.4774	
$ 46 Dibromofluoromethane (Surr)	113	6.854	6.848	0.006	94	602854	10.0	10.0	
47 1,1,1-Trichloroethane	97	6.872	6.860	0.012	97	50051	0.5000	0.4632	
48 Cyclohexane	56	6.964	6.964	0.000	89	41983	0.5000	0.3919	
50 Carbon tetrachloride	117	7.080	7.067	0.013	88	39984	0.5000	0.4287	
51 1,1-Dichloropropene	75	7.080	7.074	0.006	95	40862	0.5000	0.4483	
52 Isobutyl alcohol	41	7.232	7.214	0.018	95	24830	25.0	22.7	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.299	7.299	0.000	83	118060	10.0	9.82	
54 Benzene	78	7.336	7.336	0.000	95	128948	0.5000	0.4806	
56 1,2-Dichloroethane	62	7.409	7.409	0.000	96	34473	0.5000	0.4742	
57 Tert-amyl methyl ether	73	7.525	7.519	0.006	99	81778	0.5000	0.4594	
* 58 Fluorobenzene (IS)	96	7.738	7.732	0.006	99	2386508	10.0	10.0	
59 n-Heptane	43	7.744	7.744	0.000	48	39115	0.5000	0.4211	
60 n-Butanol	56	8.104	8.098	0.006	87	41262	43.8	40.7	
61 Trichloroethene	95	8.220	8.214	0.006	98	34329	0.5000	0.4760	
62 Methylcyclohexane	83	8.531	8.525	0.006	92	46295	0.5000	0.3860	
63 1,2-Dichloropropane	63	8.543	8.543	0.000	73	30184	0.5000	0.4580	
64 Methyl methacrylate	69	8.634	8.628	0.006	90	12996	0.5000	0.4171	
65 1,4-Dioxane	88	8.640	8.640	0.000	38	4720	25.0	33.9	M
66 Dibromomethane	93	8.653	8.653	0.000	92	14579	0.5000	0.4527	
68 Dichlorobromomethane	83	8.890	8.890	0.000	99	37237	0.5000	0.4661	
69 2-Nitropropane	41	9.152	9.152	0.000	98	20434	2.50	2.29	
72 1-Bromo-2-chloroethane	63	9.281	9.280	0.001	98	27429	0.5000	0.4241	
73 cis-1,3-Dichloropropene	75	9.433	9.433	0.000	96	44155	0.5000	0.4399	
74 4-Methyl-2-pentanone (MIBK)	43	9.604	9.597	0.007	96	180620	5.00	4.55	
$ 75 Toluene-d8 (Surr)	98	9.738	9.738	0.000	93	2386226	10.0	10.0	
76 Toluene	92	9.817	9.811	0.006	98	85173	0.5000	0.4814	
S 77 1,3-Dichloropropene, Total	100				0			0.8811	
78 trans-1,3-Dichloropropene	75	10.073	10.067	0.006	92	35995	0.5000	0.4412	
79 Ethyl methacrylate	69	10.134	10.128	0.006	89	28685	0.5000	0.4213	
80 1,1,2-Trichloroethane	97	10.274	10.268	0.006	90	22055	0.5000	0.4673	
81 Tetrachloroethene	166	10.360	10.360	0.000	98	39159	0.5000	0.4646	
82 1,3-Dichloropropane	76	10.433	10.433	0.000	88	36830	0.5000	0.4589	
83 2-Hexanone	43	10.482	10.481	0.001	96	125813	5.00	4.52	
85 Chlorodibromomethane	129	10.646	10.646	0.000	89	24663	0.5000	0.4288	
86 Ethylene Dibromide	107	10.756	10.756	0.000	99	20030	0.5000	0.4399	
* 87 Chlorobenzene-d5 (IS)	117	11.183	11.183	0.000	85	1845718	10.0	10.0	
88 1-Chlorohexane	91	11.189	11.189	0.000	94	46401	0.5000	0.4484	
90 Chlorobenzene	112	11.213	11.213	0.000	96	92274	0.5000	0.4708	
S 89 Xylenes, Total	106				0			1.42	
91 1,1,1,2-Tetrachloroethane	131	11.292	11.292	0.000	95	30345	0.5000	0.4434	
92 Ethylbenzene	91	11.298	11.298	0.000	98	160740	0.5000	0.4718	
93 m-Xylene & p-Xylene	106	11.414	11.408	0.006	99	127477	1.00	0.9471	
94 o-Xylene	106	11.737	11.737	0.000	96	62976	0.5000	0.4741	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
95 Styrene	104	11.756	11.756	0.000	94	99275	0.5000	0.4630	
96 Bromoform	173	11.914	11.914	0.000	96	14486	0.5000	0.4205	
97 Isopropylbenzene	105	12.036	12.036	0.000	96	165096	0.5000	0.4708	
$ 100 4-Bromofluorobenzene (Surr)	95	12.182	12.182	0.000	92	911479	10.0	10.0	
101 1,1,2,2-Tetrachloroethane	83	12.280	12.280	0.000	93	27777	0.5000	0.4559	
102 Bromobenzene	156	12.298	12.298	0.000	96	38617	0.5000	0.4625	
103 trans-1,4-Dichloro-2-butene	53	12.310	12.304	0.006	94	63065	5.00	4.39	
104 1,2,3-Trichloropropane	110	12.329	12.329	0.000	80	7449	0.5000	0.4447	
105 N-Propylbenzene	91	12.365	12.365	0.000	99	188239	0.5000	0.4644	
106 2-Chlorotoluene	126	12.445	12.444	0.001	97	38383	0.5000	0.4615	
107 1,3,5-Trimethylbenzene	105	12.499	12.499	0.000	94	137180	0.5000	0.4634	
108 4-Chlorotoluene	126	12.536	12.536	0.000	98	39370	0.5000	0.4635	
109 tert-Butylbenzene	134	12.743	12.743	0.000	92	30260	0.5000	0.4661	
110 Pentachloroethane	167	12.774	12.774	0.000	89	21010	0.5000	0.4007	
111 1,2,4-Trimethylbenzene	105	12.786	12.786	0.000	97	139600	0.5000	0.4601	
112 sec-Butylbenzene	105	12.908	12.902	0.006	94	171209	0.5000	0.4577	
113 1,3-Dichlorobenzene	146	13.005	13.005	0.000	98	76475	0.5000	0.4542	
114 4-Isopropyltoluene	119	13.011	13.011	0.000	97	151465	0.5000	0.4578	
* 115 1,4-Dichlorobenzene-d4	152	13.060	13.060	0.000	94	1102182	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.079	13.079	0.000	95	79823	0.5000	0.4638	
117 1,2,3-Trimethylbenzene	120	13.085	13.085	0.000	95	63083	0.5000	0.4699	
118 Benzyl chloride	126	13.158	13.158	0.000	98	10785	0.5000	0.4326	
119 n-Butylbenzene	92	13.304	13.304	0.000	98	68676	0.5000	0.4441	
120 1,2-Dichlorobenzene	146	13.341	13.341	0.000	98	69498	0.5000	0.4517	
122 1,2-Dibromo-3-Chloropropane	155	13.883	13.883	0.000	88	3634	0.5000	0.4055	
123 1,3,5-Trichlorobenzene	180	14.011	14.005	0.006	95	55476	0.5000	0.4502	
124 1,2,4-Trichlorobenzene	180	14.432	14.432	0.000	95	44434	0.5000	0.4274	
125 Hexachlorobutadiene	225	14.511	14.511	0.000	96	20700	0.5000	0.4583	
126 Naphthalene	128	14.615	14.609	0.006	97	86939	0.5000	0.4387	
127 1,2,3-Trichlorobenzene	180	14.755	14.755	0.000	94	38854	0.5000	0.4324	
134 Isopropyl alcohol	45		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
137 2-Methylnaphthalene	142		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00015	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00015	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00027	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00001	Amount Added:	5.00	Units: uL	Run Reagent

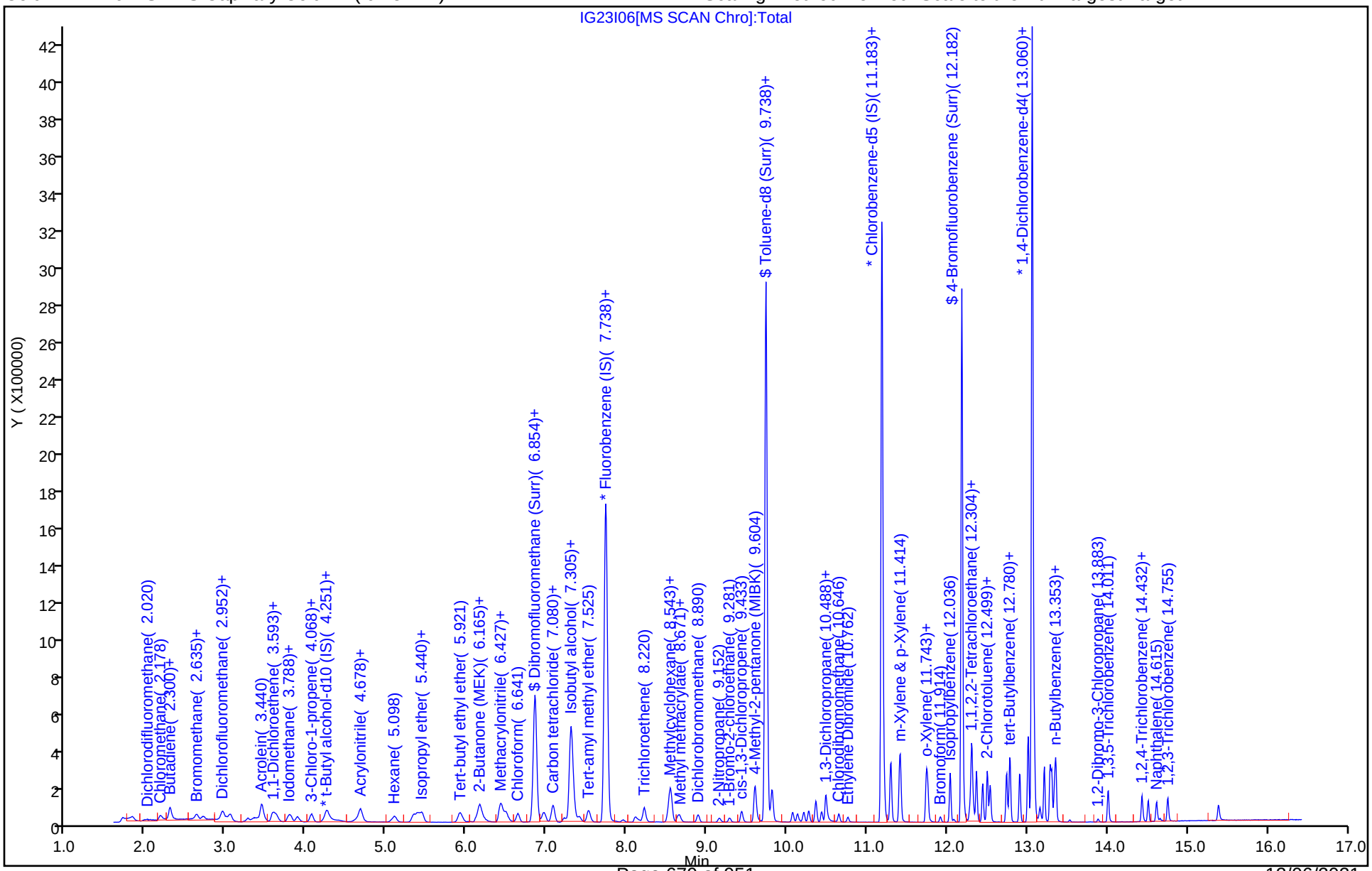
Report Date: 24-Aug-2021 15:55:28 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I06.D

Injection Date:	24-Aug-2021 02:30:30	Instrument ID:	19930	Operator ID:	mec29284
Lims ID:	IC std2			Worklist Smp#:	17
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

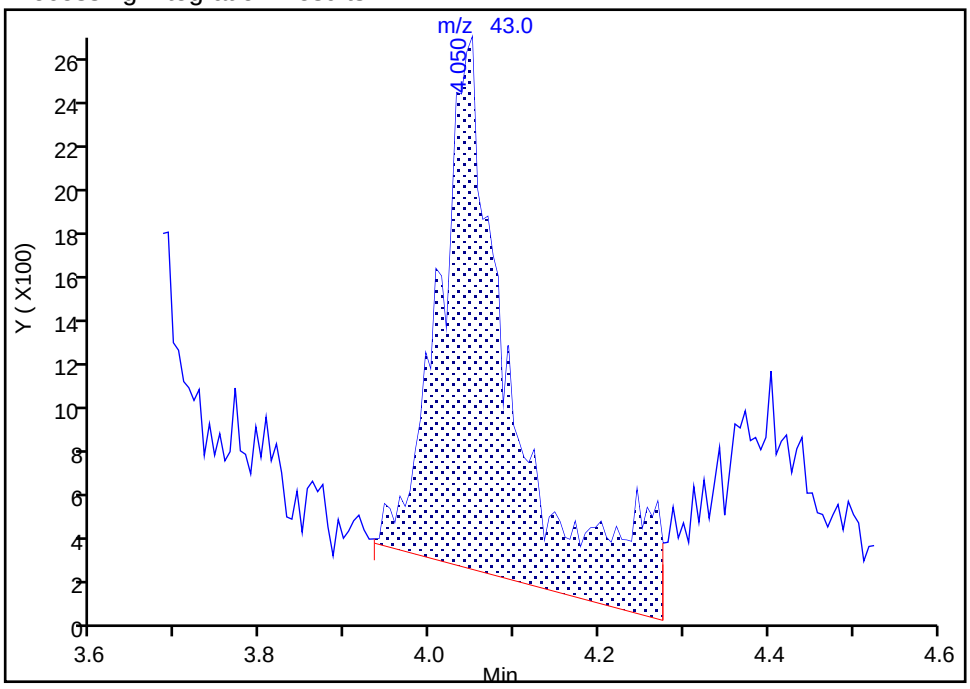
Data File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I06.D
Injection Date: 24-Aug-2021 02:30:30 Instrument ID: 19930
Lims ID: IC std2
Client ID:
Operator ID: mec29284 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

21 Methyl acetate, CAS: 79-20-9

Signal: 1

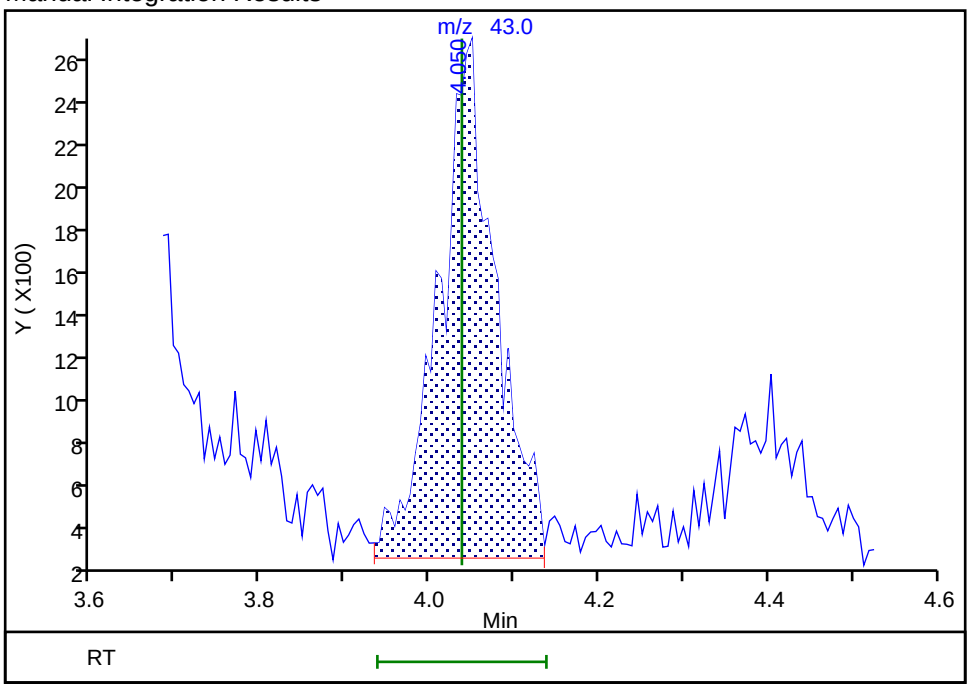
Processing Integration Results

RT: 4.05
Area: 14429
Amount: 0.507597
Amount Units: ug/l



Manual Integration Results

RT: 4.05
Area: 10814
Amount: 0.406583
Amount Units: ug/l



Reviewer: longj, 24-Aug-2021 15:07:57
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

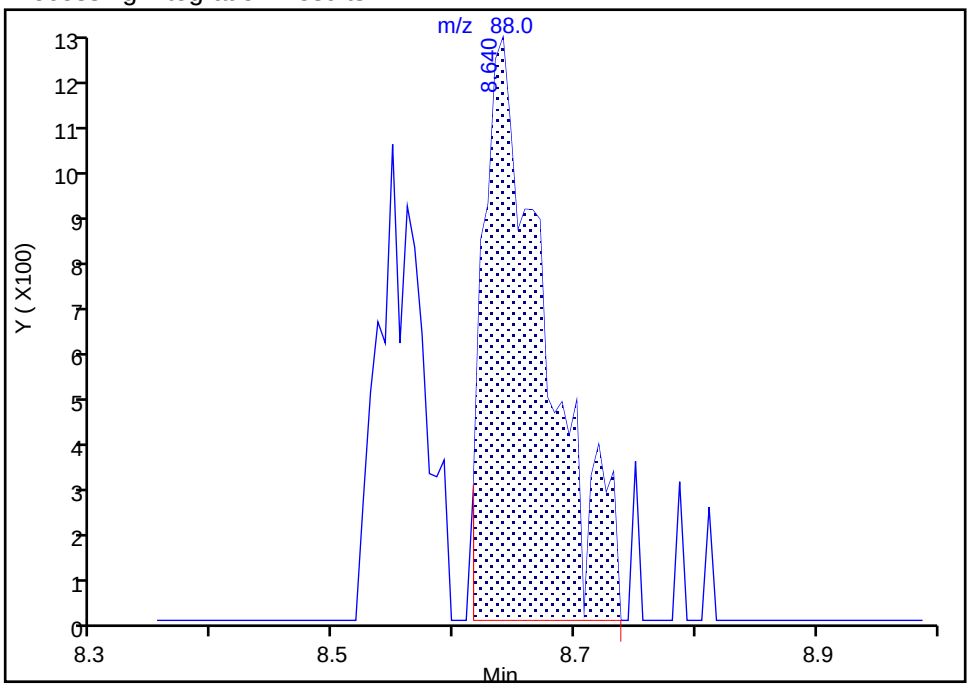
Data File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I06.D				
Injection Date:	24-Aug-2021 02:30:30	Instrument ID:	19930		
Lims ID:	IC std2				
Client ID:					
Operator ID:	mec29284	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

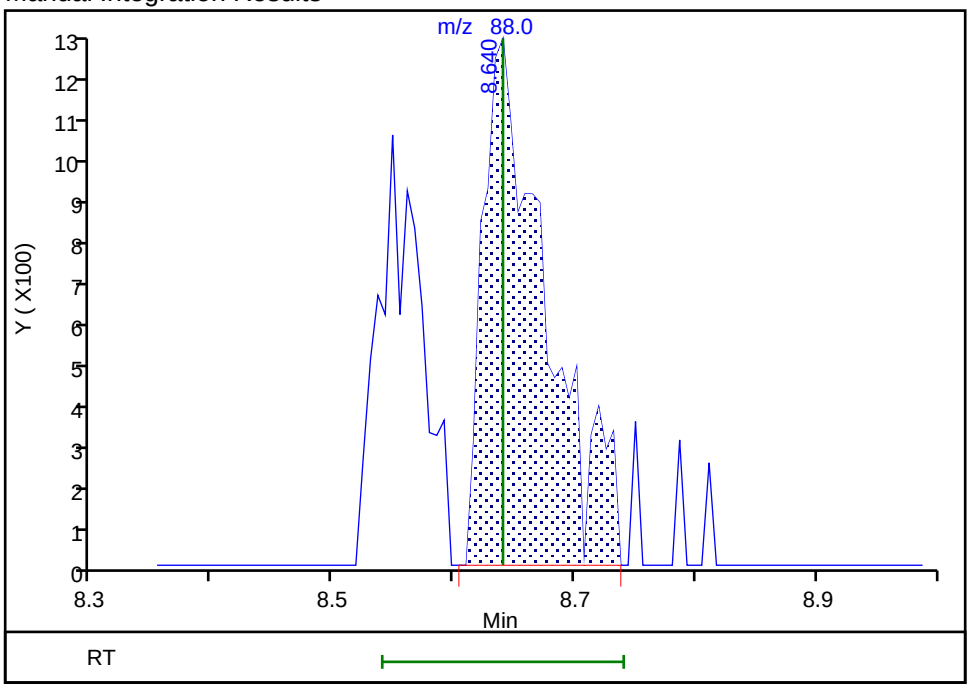
Processing Integration Results

RT: 8.64
Area: 4720
Amount: 19.712558
Amount Units: ug/l



Manual Integration Results

RT: 8.64
Area: 4720
Amount: 33.937684
Amount Units: ug/l



Reviewer: longj, 24-Aug-2021 15:07:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D
Lims ID: IC std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 24-Aug-2021 02:52:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0037607-018
Misc. Info.: IC STD1
Operator ID: mec29284 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 24-Aug-2021 15:55:32 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1646

First Level Reviewer: longj Date: 24-Aug-2021 14:55:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.983	1.965	0.018	98	10622	0.2000	0.1541	
4 Chloromethane	50	2.172	2.172	0.000	98	16469	0.2000	0.2098	
6 Butadiene	39	2.294	2.288	0.006	89	15788	0.2000	0.2189	
5 Vinyl chloride	62	2.294	2.294	0.000	79	16237	0.2000	0.2051	
7 Bromomethane	94	2.617	2.623	-0.006	93	12369	0.2000	0.2156	
8 Chloroethane	64	2.702	2.709	-0.007	98	9968	0.2000	0.2101	
9 Dichlorofluoromethane	67	2.952	2.946	0.006	96	24746	0.2000	0.2169	
10 Trichlorofluoromethane	101	3.019	3.020	-0.001	94	17920	0.2000	0.1757	
11 Ethyl ether	59	3.263	3.257	0.006	89	8085	0.2000	0.1951	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.349	3.343	0.006	91	14481	0.2000	0.1982	
13 Acrolein	56	3.434	3.428	0.006	99	67296	10.0	9.50	
14 1,1-Dichloroethene	96	3.568	3.568	0.000	97	9853	0.2000	0.1873	
15 Acetone	43	3.623	3.599	0.024	91	22016	2.00	2.44	
16 112TCTFE	101	3.623	3.611	0.012	67	7902	0.2000	0.1439	
17 Iodomethane	142	3.769	3.769	0.000	99	19236	0.2000	0.1830	
18 Ethyl bromide	108	3.800	3.794	0.006	97	9559	0.1999	0.1995	
19 Carbon disulfide	76	3.885	3.879	0.006	98	27501	0.2000	0.1895	
21 Methyl acetate	43	4.025	4.038	-0.013	24	6630	0.2000	0.2501	M
22 3-Chloro-1-propene	41	4.062	4.056	0.006	91	17799	0.2000	0.2063	
23 Methylene Chloride	84	4.251	4.239	0.012	92	11123	0.2000	0.1938	
* 24 t-Butyl alcohol-d10 (IS)	65	4.257	4.257	0.000	87	162132	50.0	50.0	
25 2-Methyl-2-propanol	59	4.385	4.397	-0.012	96	13173	4.00	3.86	
26 Acrylonitrile	53	4.598	4.592	0.006	93	5439	0.5000	0.4531	
27 Methyl tert-butyl ether	73	4.672	4.659	0.013	94	28552	0.2000	0.1903	
28 trans-1,2-Dichloroethene	96	4.672	4.672	0.000	98	11615	0.2000	0.1945	
29 Hexane	57	5.092	5.086	0.006	89	13158	0.2000	0.1578	
31 1,1-Dichloroethane	63	5.330	5.330	0.000	94	19958	0.2000	0.1841	
32 Isopropyl ether	45	5.379	5.385	-0.006	92	34823	0.2000	0.1923	
33 2-Chloro-1,3-butadiene	53	5.434	5.434	0.000	90	16724	0.2000	0.1851	
34 Tert-butyl ethyl ether	59	5.915	5.915	0.000	95	34174	0.2000	0.1930	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.135	6.116	0.019	99	29007	2.00	1.84	
S 35 1,2-Dichloroethene, Total	100				0			0.3987	
37 cis-1,2-Dichloroethene	96	6.159	6.159	0.000	80	13593	0.2000	0.2043	
38 2,2-Dichloropropane	77	6.165	6.171	-0.006	75	17139	0.2000	0.1819	
40 Propionitrile	54	6.226	6.208	0.018	96	13833	4.00	3.31	
42 Methacrylonitrile	67	6.433	6.415	0.018	91	28932	2.00	1.83	
43 Chlorobromomethane	128	6.494	6.482	0.012	89	5382	0.2000	0.1874	
44 Tetrahydrofuran	71	6.500	6.494	0.006	73	4531	1.00	0.9713	
45 Chloroform	83	6.641	6.635	0.006	93	20677	0.2000	0.1926	
$ 46 Dibromofluoromethane (Surr)	113	6.848	6.848	0.000	94	550850	10.0	9.92	
47 1,1,1-Trichloroethane	97	6.860	6.860	0.000	37	17947	0.2000	0.1799	
48 Cyclohexane	56	6.964	6.964	0.000	88	15734	0.2000	0.1591	
50 Carbon tetrachloride	117	7.080	7.067	0.013	89	14826	0.2000	0.1722	
51 1,1-Dichloropropene	75	7.074	7.074	0.000	92	15129	0.2000	0.1798	
52 Isobutyl alcohol	41	7.238	7.214	0.024	98	11365	10.0	10.4	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.305	7.299	0.006	83	111473	10.0	10.0	
54 Benzene	78	7.342	7.336	0.006	92	47533	0.2000	0.1919	
56 1,2-Dichloroethane	62	7.409	7.409	0.000	96	14085	0.2000	0.2098	
57 Tert-amyl methyl ether	73	7.519	7.519	0.000	98	32493	0.2000	0.1977	
* 58 Fluorobenzene (IS)	96	7.732	7.732	0.000	99	2203428	10.0	10.0	
59 n-Heptane	43	7.744	7.744	0.000	37	16461	0.2000	0.1919	
60 n-Butanol	56	8.110	8.098	0.012	88	15162	17.5	15.0	
61 Trichloroethene	95	8.214	8.214	0.000	97	12472	0.2000	0.1873	
62 Methylcyclohexane	83	8.518	8.525	-0.007	90	18086	0.2000	0.1633	
63 1,2-Dichloropropane	63	8.549	8.543	0.006	72	10792	0.2000	0.1774	
64 Methyl methacrylate	69	8.634	8.628	0.006	69	5380	0.2000	0.1732	
65 1,4-Dioxane	88	8.659	8.640	0.019	36	1410	10.0	25.4	
66 Dibromomethane	93	8.665	8.653	0.012	96	6024	0.2000	0.2026	
68 Dichlorobromomethane	83	8.884	8.890	-0.006	98	13292	0.2000	0.1802	
69 2-Nitropropane	41	9.152	9.152	0.000	98	7855	1.00	0.8841	
72 1-Bromo-2-chloroethane	63	9.280	9.280	0.000	95	11412	0.2000	0.1911	
73 cis-1,3-Dichloropropene	75	9.433	9.433	0.000	96	16632	0.2000	0.1795	
74 4-Methyl-2-pentanone (MIBK)	43	9.604	9.597	0.007	95	72451	2.00	1.83	
$ 75 Toluene-d8 (Surr)	98	9.738	9.738	0.000	93	2194797	10.0	10.1	
76 Toluene	92	9.811	9.811	0.000	97	31541	0.2000	0.1959	
S 77 1,3-Dichloropropene, Total	100				0			0.3575	
78 trans-1,3-Dichloropropene	75	10.073	10.067	0.006	93	13216	0.2000	0.1780	
79 Ethyl methacrylate	69	10.140	10.128	0.012	86	11059	0.2000	0.1785	
80 1,1,2-Trichloroethane	97	10.268	10.268	0.000	88	8395	0.2000	0.1955	
81 Tetrachloroethene	166	10.366	10.360	0.006	97	14161	0.2000	0.1846	
82 1,3-Dichloropropane	76	10.433	10.433	0.000	86	14346	0.2000	0.1964	
83 2-Hexanone	43	10.487	10.481	0.006	96	46582	2.00	1.68	
85 Chlorodibromomethane	129	10.646	10.646	0.000	91	9097	0.2000	0.1738	
86 Ethylene Dibromide	107	10.762	10.756	0.006	96	7956	0.2000	0.1920	
* 87 Chlorobenzene-d5 (IS)	117	11.182	11.183	-0.001	86	1679409	10.0	10.0	
88 1-Chlorohexane	91	11.195	11.189	0.006	74	19704	0.2000	0.2093	
90 Chlorobenzene	112	11.213	11.213	0.000	96	34732	0.2000	0.1948	
S 89 Xylenes, Total	106				0			0.5624	
91 1,1,1,2-Tetrachloroethane	131	11.292	11.292	0.000	92	11871	0.2000	0.1906	
92 Ethylbenzene	91	11.298	11.298	0.000	98	59702	0.2000	0.1926	
93 m-Xylene & p-Xylene	106	11.414	11.408	0.006	100	45724	0.4000	0.3734	
94 o-Xylene	106	11.737	11.737	0.000	96	22844	0.2000	0.1890	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
95 Styrene	104	11.756	11.756	0.000	94	35508	0.2000	0.1820	
96 Bromoform	173	11.920	11.914	0.006	96	5180	0.2000	0.1652	
97 Isopropylbenzene	105	12.036	12.036	0.000	95	59476	0.2000	0.1864	
$ 100 4-Bromofluorobenzene (Surr)	95	12.182	12.182	0.000	92	836413	10.0	10.1	
101 1,1,2,2-Tetrachloroethane	83	12.280	12.280	0.000	91	10699	0.2000	0.1912	
102 Bromobenzene	156	12.298	12.298	0.000	94	14657	0.2000	0.1911	
103 trans-1,4-Dichloro-2-butene	53	12.310	12.304	0.006	94	23386	2.00	1.63	
104 1,2,3-Trichloropropane	110	12.329	12.329	0.000	79	2954	0.2000	0.1920	
105 N-Propylbenzene	91	12.365	12.365	0.000	99	69326	0.2000	0.1862	
106 2-Chlorotoluene	126	12.444	12.444	0.000	97	13941	0.2000	0.1825	
107 1,3,5-Trimethylbenzene	105	12.499	12.499	0.000	95	50366	0.2000	0.1853	
108 4-Chlorotoluene	126	12.536	12.536	0.000	96	14590	0.2000	0.1870	
109 tert-Butylbenzene	134	12.743	12.743	0.000	92	10568	0.2000	0.1772	
110 Pentachloroethane	167	12.774	12.774	0.000	81	8742	0.2000	0.1815	
111 1,2,4-Trimethylbenzene	105	12.786	12.786	0.000	97	50685	0.2000	0.1819	
112 sec-Butylbenzene	105	12.908	12.902	0.006	94	62740	0.2000	0.1826	
113 1,3-Dichlorobenzene	146	13.005	13.005	0.000	97	28815	0.2000	0.1863	
114 4-Isopropyltoluene	119	13.011	13.011	0.000	97	56219	0.2000	0.1850	
* 115 1,4-Dichlorobenzene-d4	152	13.060	13.060	0.000	94	1012314	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.078	13.079	-0.001	94	30392	0.2000	0.1923	
117 1,2,3-Trimethylbenzene	120	13.091	13.085	0.006	96	23351	0.2000	0.1894	
118 Benzyl chloride	126	13.164	13.158	0.006	98	3297	0.2000	0.1440	
119 n-Butylbenzene	92	13.304	13.304	0.000	97	26239	0.2000	0.1848	
120 1,2-Dichlorobenzene	146	13.341	13.341	0.000	97	26871	0.2000	0.1901	
122 1,2-Dibromo-3-Chloropropane	155	13.889	13.883	0.006	79	1200	0.2000	0.1458	
123 1,3,5-Trichlorobenzene	180	14.005	14.005	0.000	97	20269	0.2000	0.1791	
124 1,2,4-Trichlorobenzene	180	14.432	14.432	0.000	94	17004	0.2000	0.1781	
125 Hexachlorobutadiene	225	14.511	14.511	0.000	94	9764	0.2000	0.2354	
126 Naphthalene	128	14.615	14.609	0.006	97	35671	0.2000	0.1960	
127 1,2,3-Trichlorobenzene	180	14.755	14.755	0.000	96	16298	0.2000	0.1975	
134 Isopropyl alcohol	45		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
137 2-Methylnaphthalene	142		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		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_00015	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00015	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00027	Amount Added:	2.00	Units: uL	
MSV_LLcentISS_00001	Amount Added:	5.00	Units: uL	Run Reagent

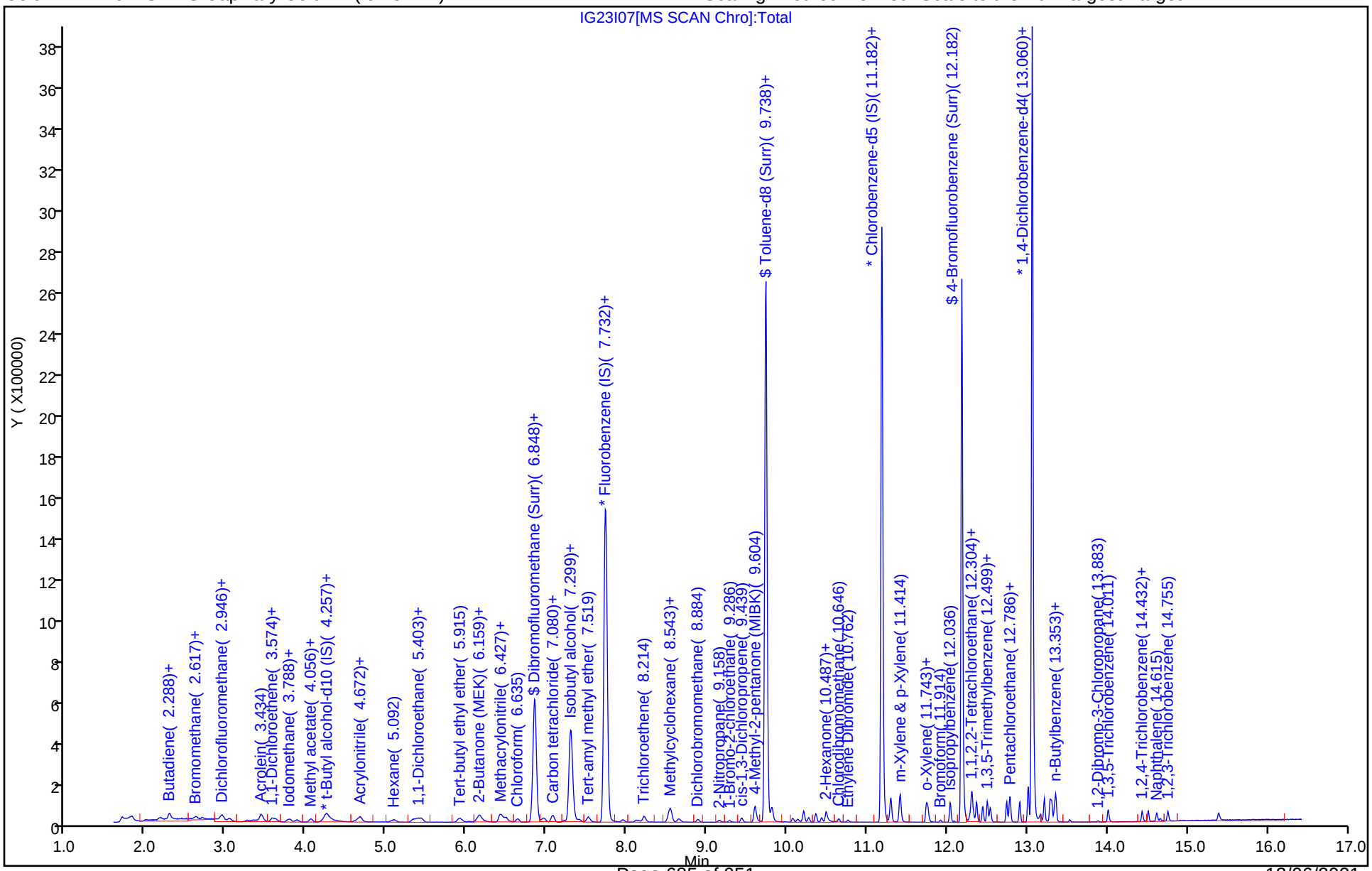
Report Date: 24-Aug-2021 15:55:32 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Injection Date:	24-Aug-2021 02:52:30	Instrument ID:	19930	Operator ID:	mec29284
Lims ID:	IC std1			Worklist Smp#:	18
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

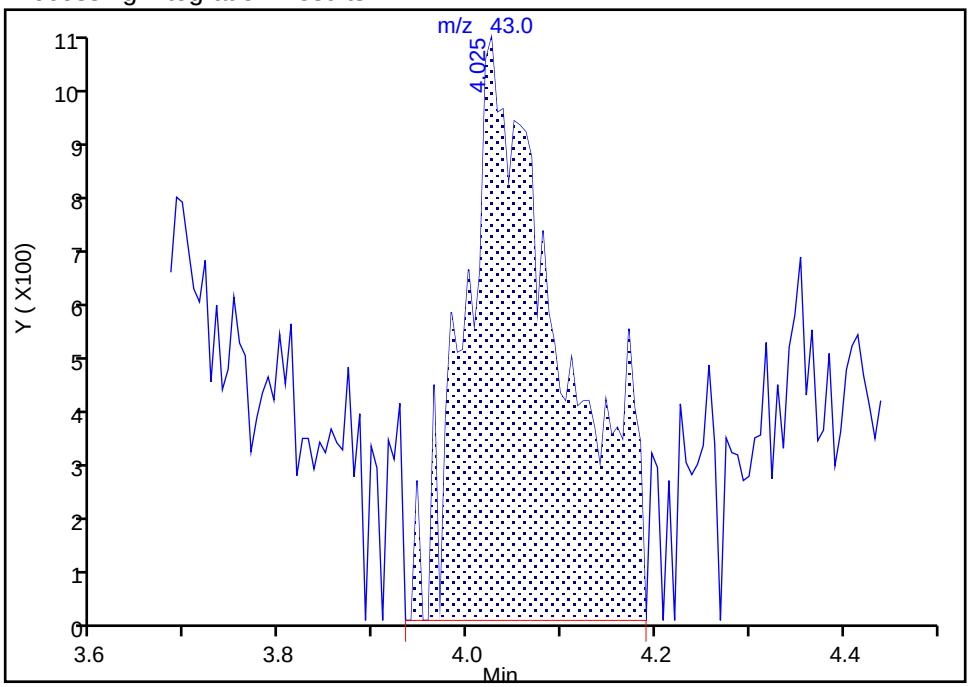
Data File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D				
Injection Date:	24-Aug-2021 02:52:30	Instrument ID:	19930		
Lims ID:	IC std1				
Client ID:					
Operator ID:	mec29284	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Methyl acetate, CAS: 79-20-9

Signal: 1

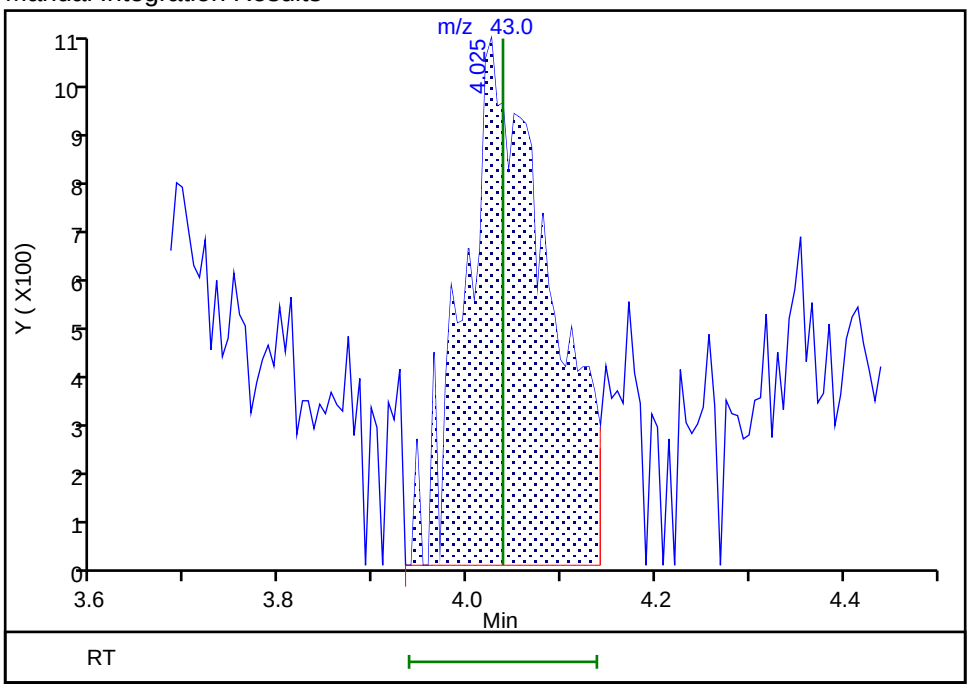
Processing Integration Results

RT: 4.03
Area: 7604
Amount: 0.278475
Amount Units: ug/l



Manual Integration Results

RT: 4.03
Area: 6630
Amount: 0.250072
Amount Units: ug/l



Reviewer: longj, 24-Aug-2021 15:08:28
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

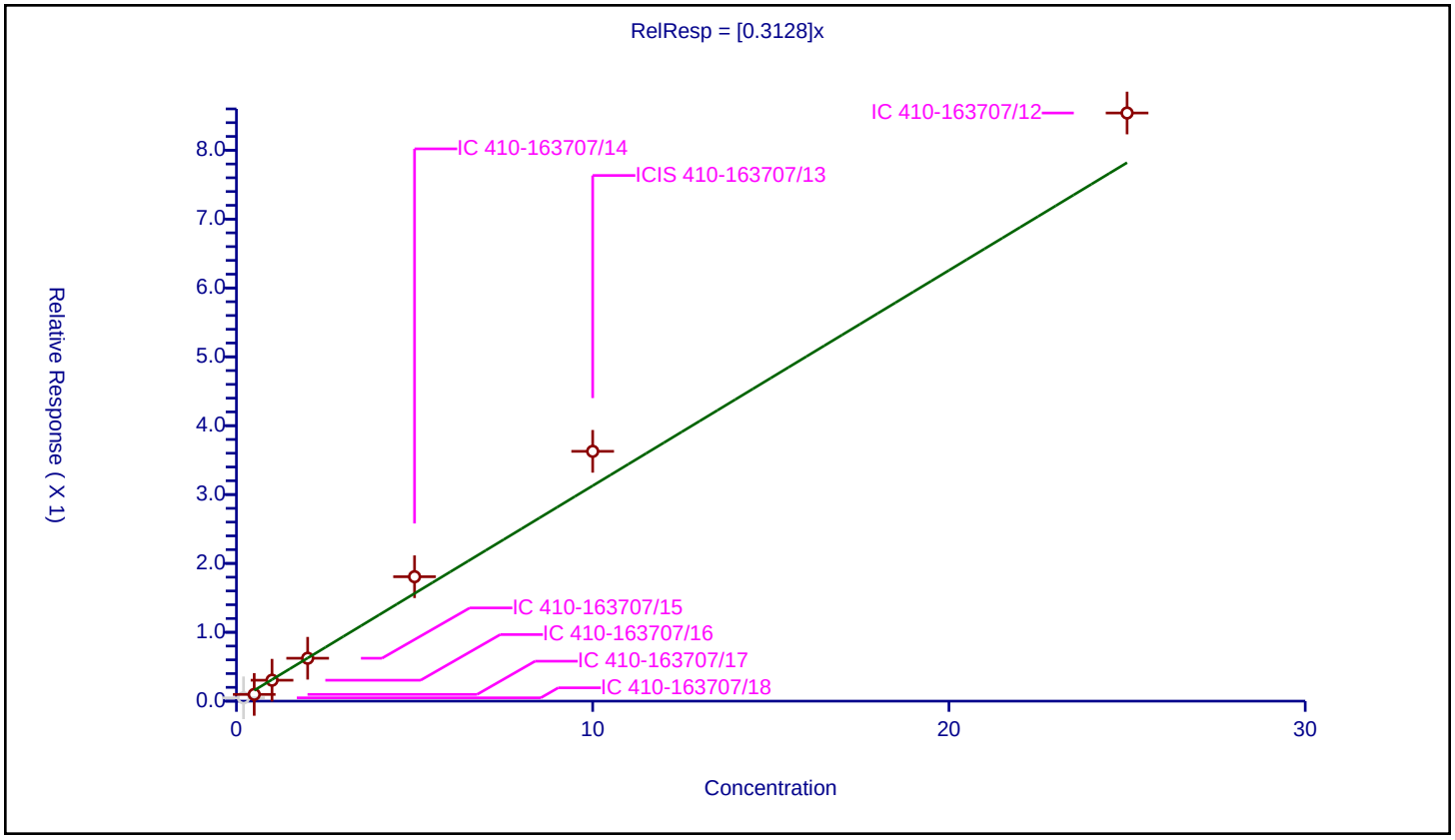
Curve Coefficients

Intercept:	0
Slope:	0.3128

Error Coefficients

Standard Error:	966000
Relative Standard Error:	20.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.954

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.048207	10.0	2203428.0	0.241034	N
2	IC 410-163707/17	0.5	0.097804	10.0	2386508.0	0.195608	Y
3	IC 410-163707/16	1.0	0.303958	10.0	2167768.0	0.303958	Y
4	IC 410-163707/15	2.0	0.622777	10.0	2141536.0	0.311389	Y
5	IC 410-163707/14	5.0	1.806842	10.0	2115642.0	0.361368	Y
6	ICIS 410-163707/13	10.0	3.6274	10.0	2122537.0	0.36274	Y
7	IC 410-163707/12	25.0	8.540533	10.0	2314551.0	0.341621	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

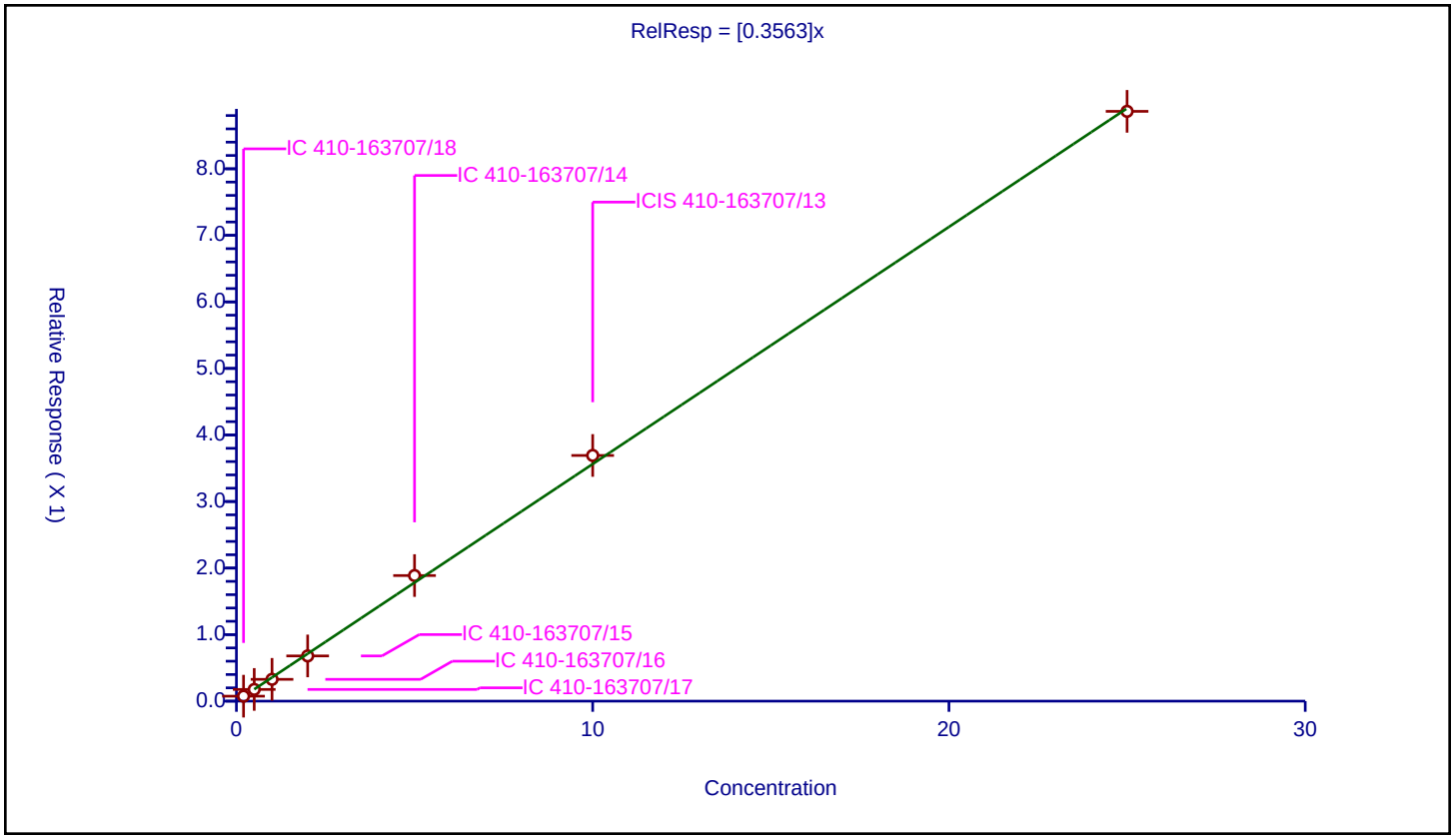
Curve Coefficients

Intercept:	0
Slope:	0.3563

Error Coefficients

Standard Error:	914000
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 410-163707/18	0.2	0.074743	10.0	2203428.0	0.373713	Y
2	IC 410-163707/17	0.5	0.176006	10.0	2386508.0	0.352012	Y
3	IC 410-163707/16	1.0	0.327678	10.0	2167768.0	0.327678	Y
4	IC 410-163707/15	2.0	0.679503	10.0	2141536.0	0.339751	Y
5	IC 410-163707/14	5.0	1.887243	10.0	2115642.0	0.377449	Y
6	ICIS 410-163707/13	10.0	3.692039	10.0	2122537.0	0.369204	Y
7	IC 410-163707/12	25.0	8.863192	10.0	2314551.0	0.354528	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

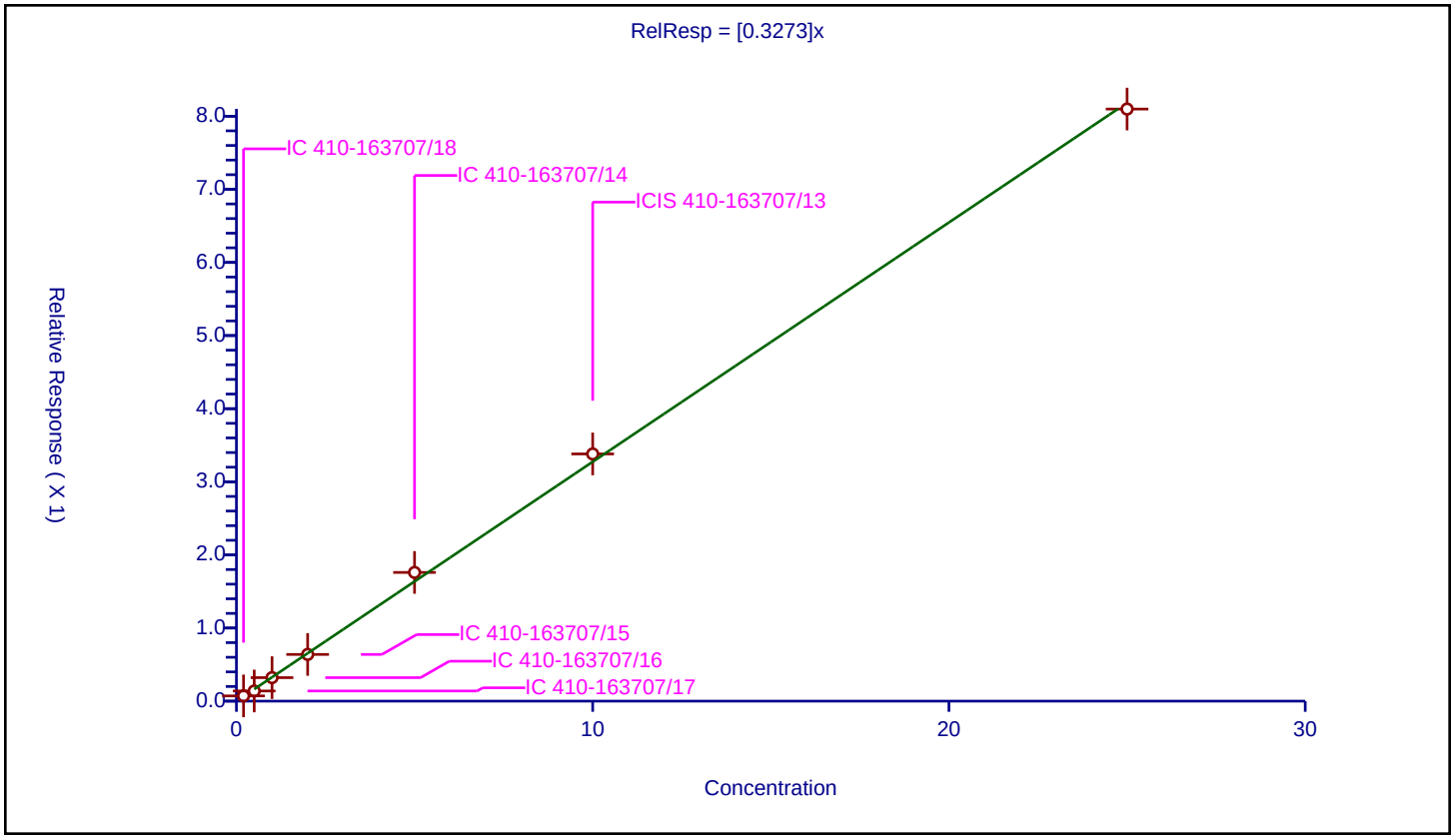
Curve Coefficients

Intercept:	0
Slope:	0.3273

Error Coefficients

Standard Error:	836000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.071652	10.0	2203428.0	0.35826	Y
2	IC 410-163707/17	0.5	0.139032	10.0	2386508.0	0.278063	Y
3	IC 410-163707/16	1.0	0.321552	10.0	2167768.0	0.321552	Y
4	IC 410-163707/15	2.0	0.638841	10.0	2141536.0	0.31942	Y
5	IC 410-163707/14	5.0	1.760421	10.0	2115642.0	0.352084	Y
6	ICIS 410-163707/13	10.0	3.380888	10.0	2122537.0	0.338089	Y
7	IC 410-163707/12	25.0	8.097925	10.0	2314551.0	0.323917	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

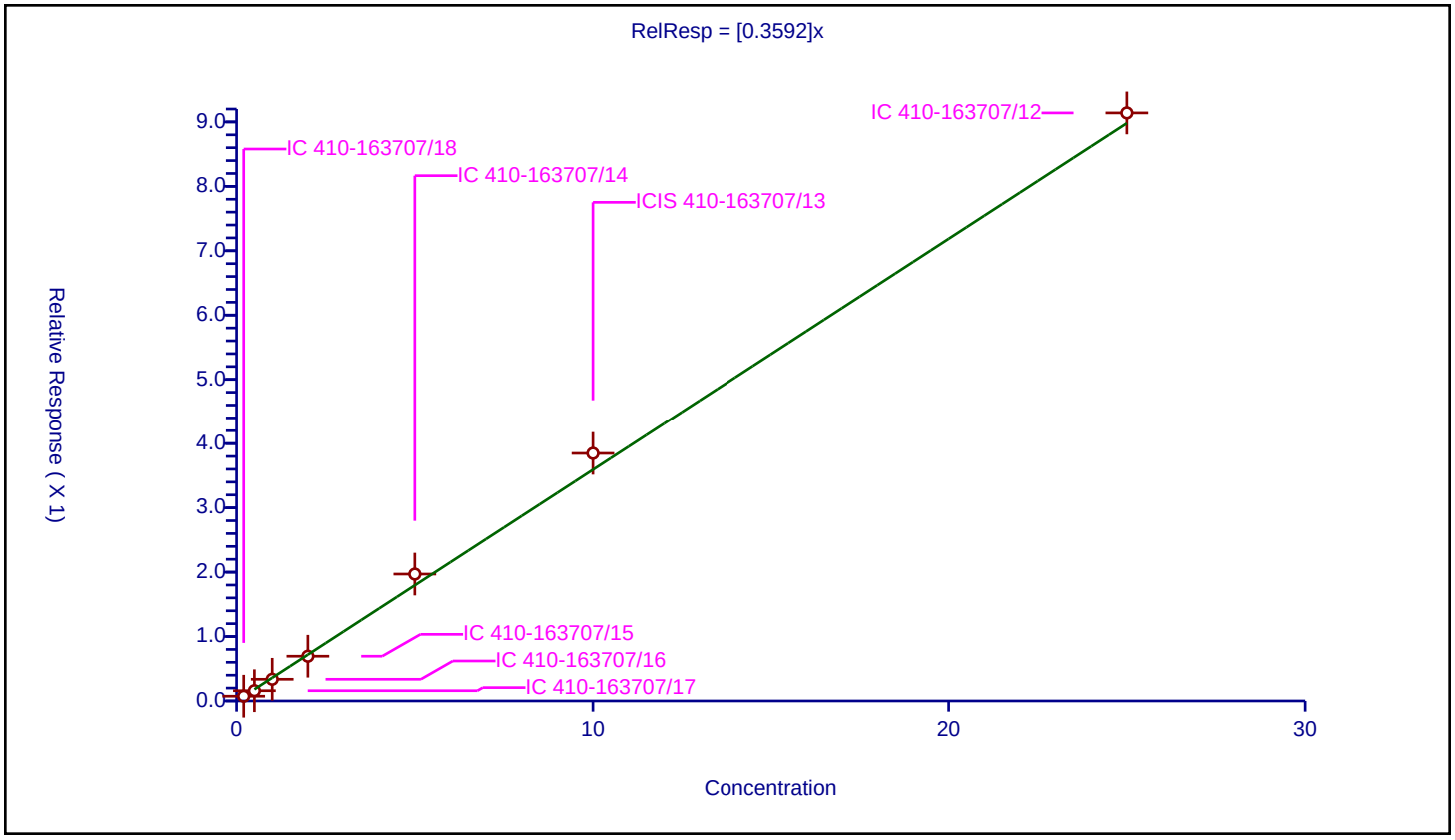
Curve Coefficients

Intercept:	0
Slope:	0.3592

Error Coefficients

Standard Error:	944000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.07369	10.0	2203428.0	0.368449	Y
2	IC 410-163707/17	0.5	0.159149	10.0	2386508.0	0.318298	Y
3	IC 410-163707/16	1.0	0.336443	10.0	2167768.0	0.336443	Y
4	IC 410-163707/15	2.0	0.694315	10.0	2141536.0	0.347157	Y
5	IC 410-163707/14	5.0	1.97039	10.0	2115642.0	0.394078	Y
6	ICIS 410-163707/13	10.0	3.847466	10.0	2122537.0	0.384747	Y
7	IC 410-163707/12	25.0	9.13944	10.0	2314551.0	0.365578	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

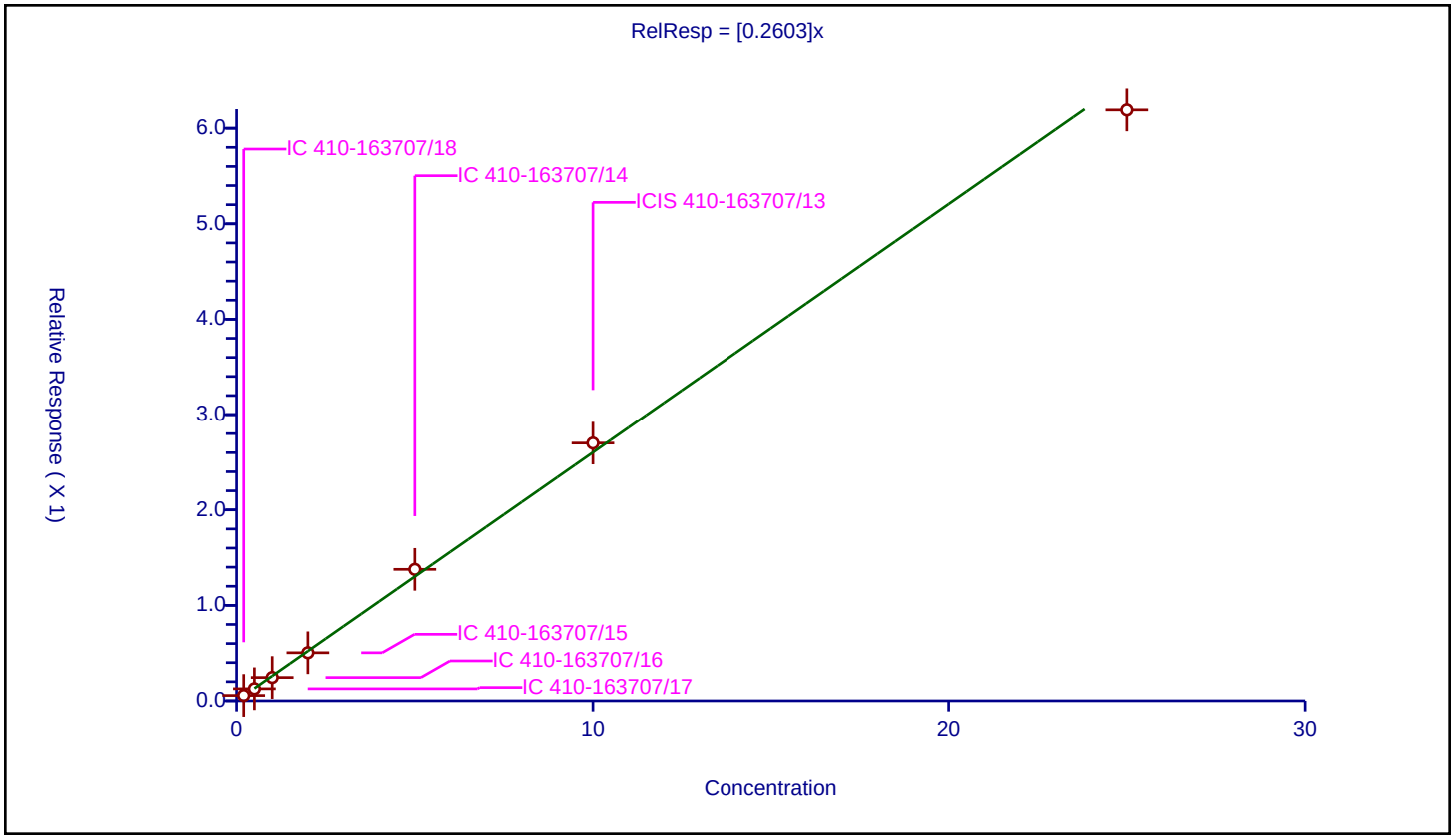
Curve Coefficients

Intercept:	0
Slope:	0.2603

Error Coefficients

Standard Error:	643000
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 410-163707/18	0.2	0.056135	10.0	2203428.0	0.280676	Y
2	IC 410-163707/17	0.5	0.12639	10.0	2386508.0	0.252779	Y
3	IC 410-163707/16	1.0	0.244048	10.0	2167768.0	0.244048	Y
4	IC 410-163707/15	2.0	0.503358	10.0	2141536.0	0.251679	Y
5	IC 410-163707/14	5.0	1.376835	10.0	2115642.0	0.275367	Y
6	ICIS 410-163707/13	10.0	2.700806	10.0	2122537.0	0.270081	Y
7	IC 410-163707/12	25.0	6.191711	10.0	2314551.0	0.247668	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

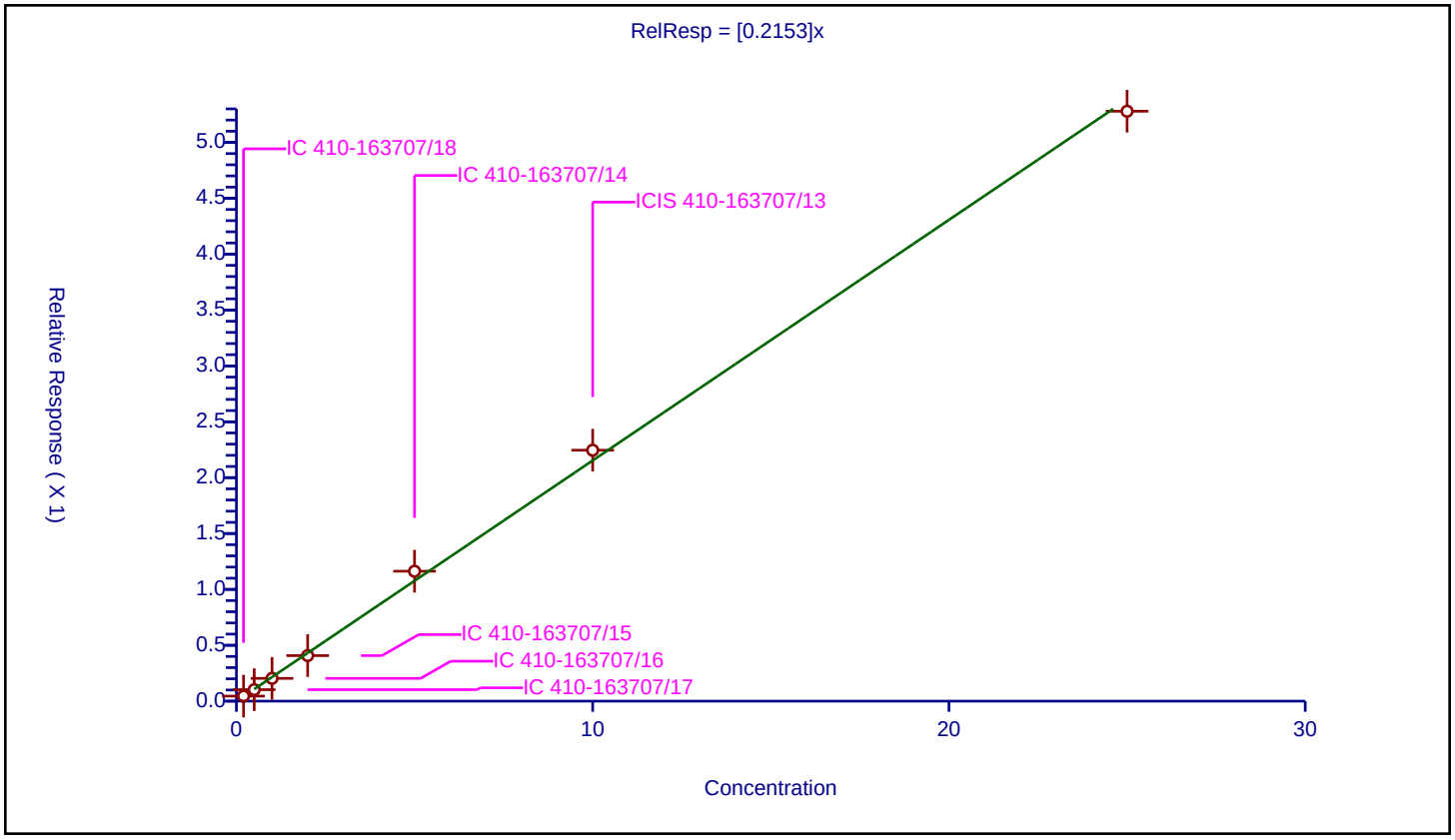
Curve Coefficients

Intercept:	0
Slope:	0.2153

Error Coefficients

Standard Error:	546000
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 410-163707/18	0.2	0.045239	10.0	2203428.0	0.226193	Y
2	IC 410-163707/17	0.5	0.102824	10.0	2386508.0	0.205648	Y
3	IC 410-163707/16	1.0	0.20361	10.0	2167768.0	0.20361	Y
4	IC 410-163707/15	2.0	0.407446	10.0	2141536.0	0.203723	Y
5	IC 410-163707/14	5.0	1.162735	10.0	2115642.0	0.232547	Y
6	ICIS 410-163707/13	10.0	2.245605	10.0	2122537.0	0.224561	Y
7	IC 410-163707/12	25.0	5.27895	10.0	2314551.0	0.211158	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

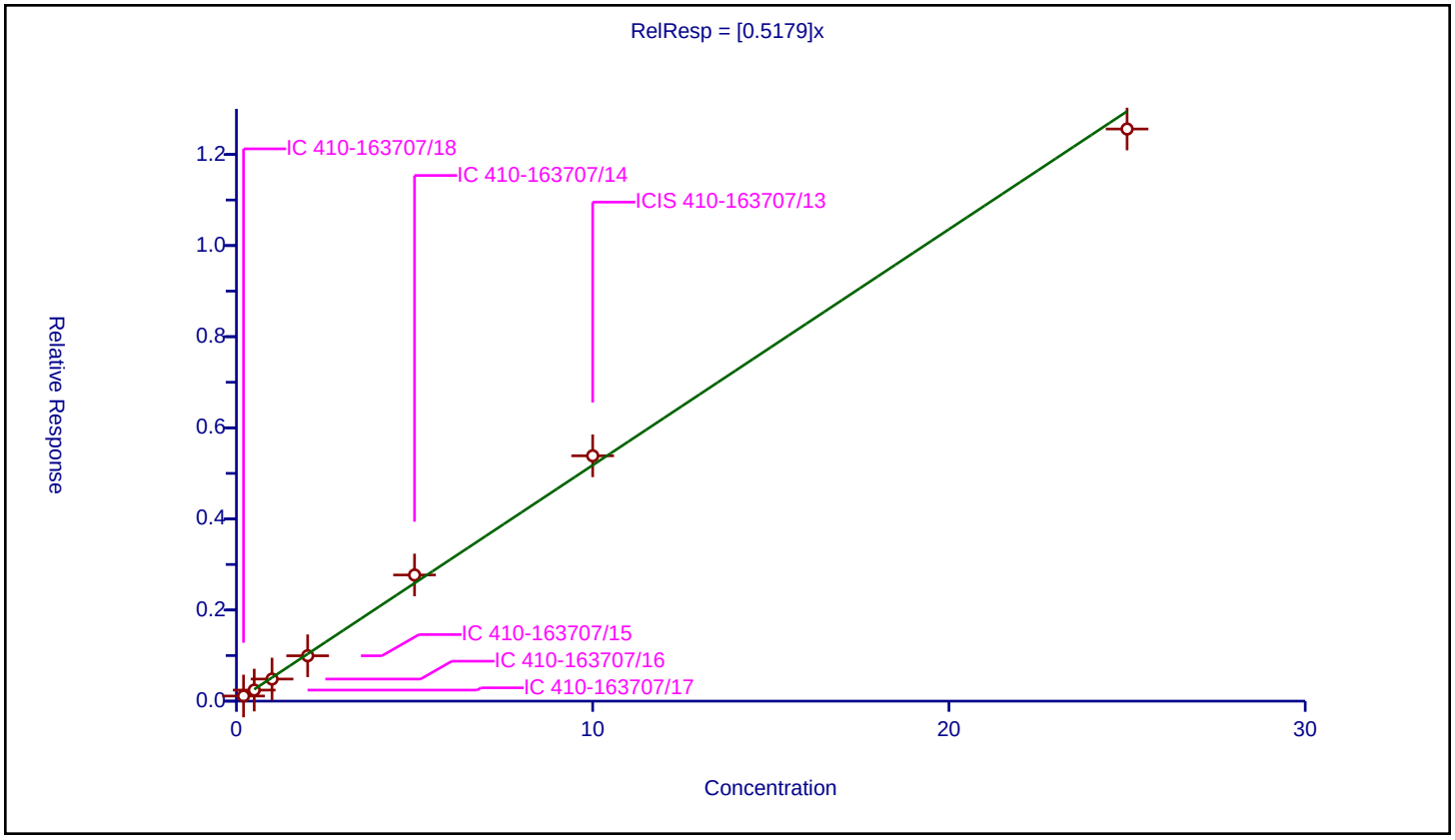
Curve Coefficients

Intercept:	0
Slope:	0.5179

Error Coefficients

Standard Error:	1300000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.112307	10.0	2203428.0	0.561534	Y
2	IC 410-163707/17	0.5	0.242953	10.0	2386508.0	0.485907	Y
3	IC 410-163707/16	1.0	0.484969	10.0	2167768.0	0.484969	Y
4	IC 410-163707/15	2.0	0.995879	10.0	2141536.0	0.497939	Y
5	IC 410-163707/14	5.0	2.769178	10.0	2115642.0	0.553836	Y
6	ICIS 410-163707/13	10.0	5.38532	10.0	2122537.0	0.538532	Y
7	IC 410-163707/12	25.0	12.558336	10.0	2314551.0	0.502333	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

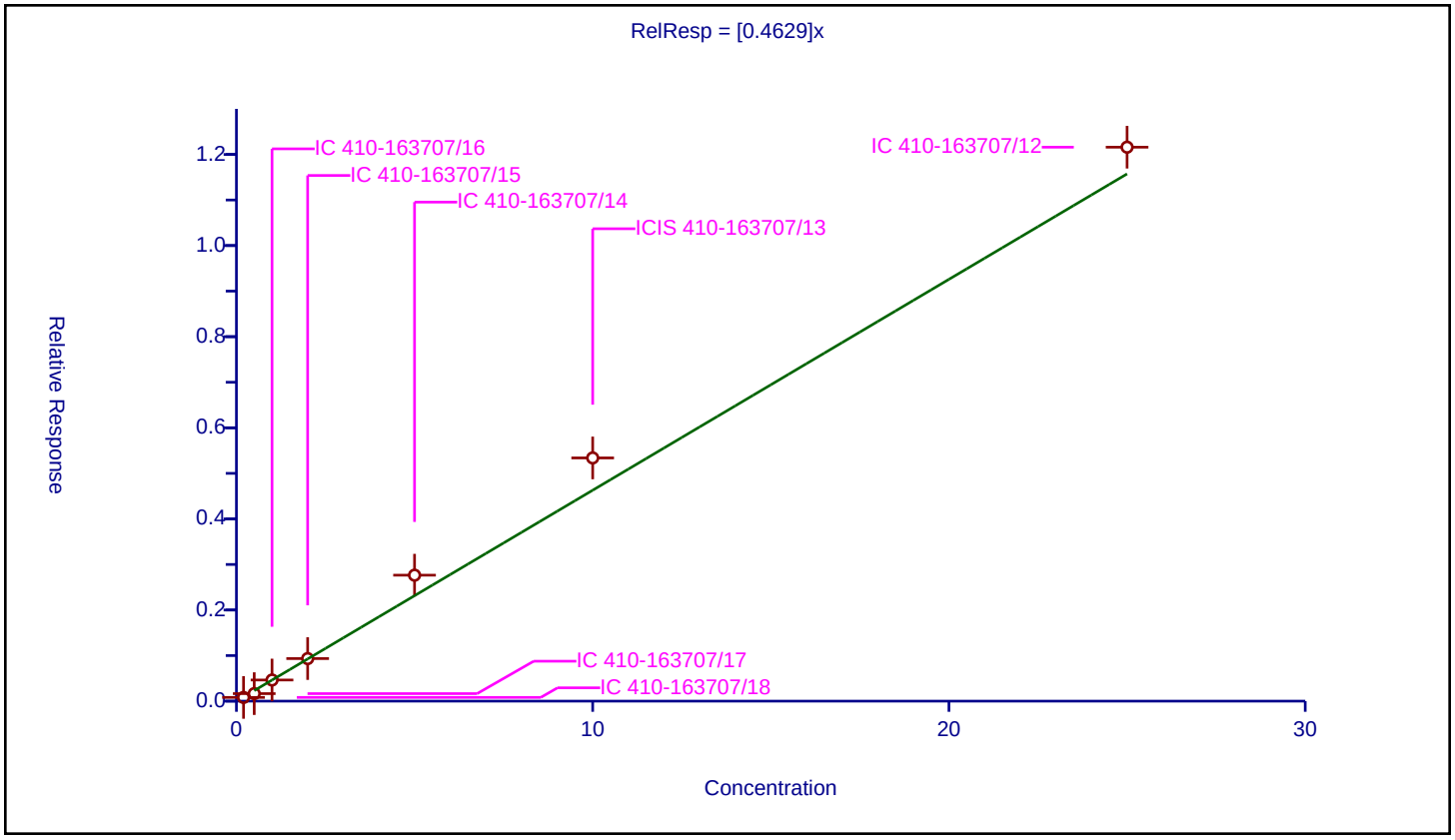
Curve Coefficients

Intercept:	0
Slope:	0.4629

Error Coefficients

Standard Error:	1260000
Relative Standard Error:	16.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.969

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.081328	10.0	2203428.0	0.406639	Y
2	IC 410-163707/17	0.5	0.164864	10.0	2386508.0	0.329729	Y
3	IC 410-163707/16	1.0	0.463767	10.0	2167768.0	0.463767	Y
4	IC 410-163707/15	2.0	0.934227	10.0	2141536.0	0.467113	Y
5	IC 410-163707/14	5.0	2.765222	10.0	2115642.0	0.553044	Y
6	ICIS 410-163707/13	10.0	5.338724	10.0	2122537.0	0.533872	Y
7	IC 410-163707/12	25.0	12.159451	10.0	2314551.0	0.486378	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

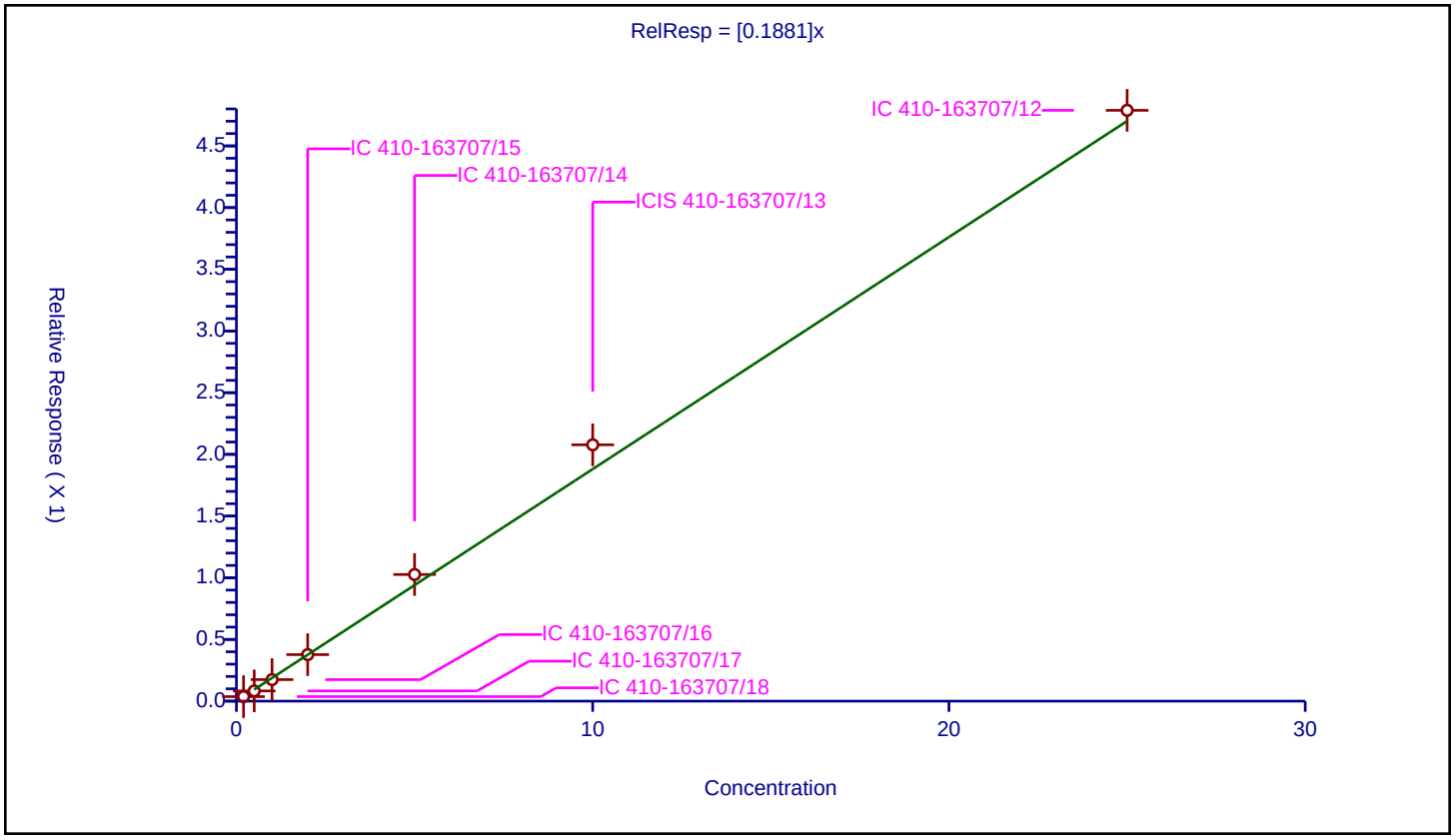
Curve Coefficients

Intercept:	0
Slope:	0.1881

Error Coefficients

Standard Error:	496000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.200014	0.036693	10.0	2203428.0	0.183451	Y
2	IC 410-163707/17	0.500035	0.082736	10.0	2386508.0	0.16546	Y
3	IC 410-163707/16	1.000069	0.174461	10.0	2167768.0	0.174448	Y
4	IC 410-163707/15	2.000138	0.376949	10.0	2141536.0	0.188461	Y
5	IC 410-163707/14	5.000346	1.026383	10.0	2115642.0	0.205262	Y
6	ICIS 410-163707/13	10.000692	2.07766	10.0	2122537.0	0.207752	Y
7	IC 410-163707/12	25.00173	4.788363	10.0	2314551.0	0.191521	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

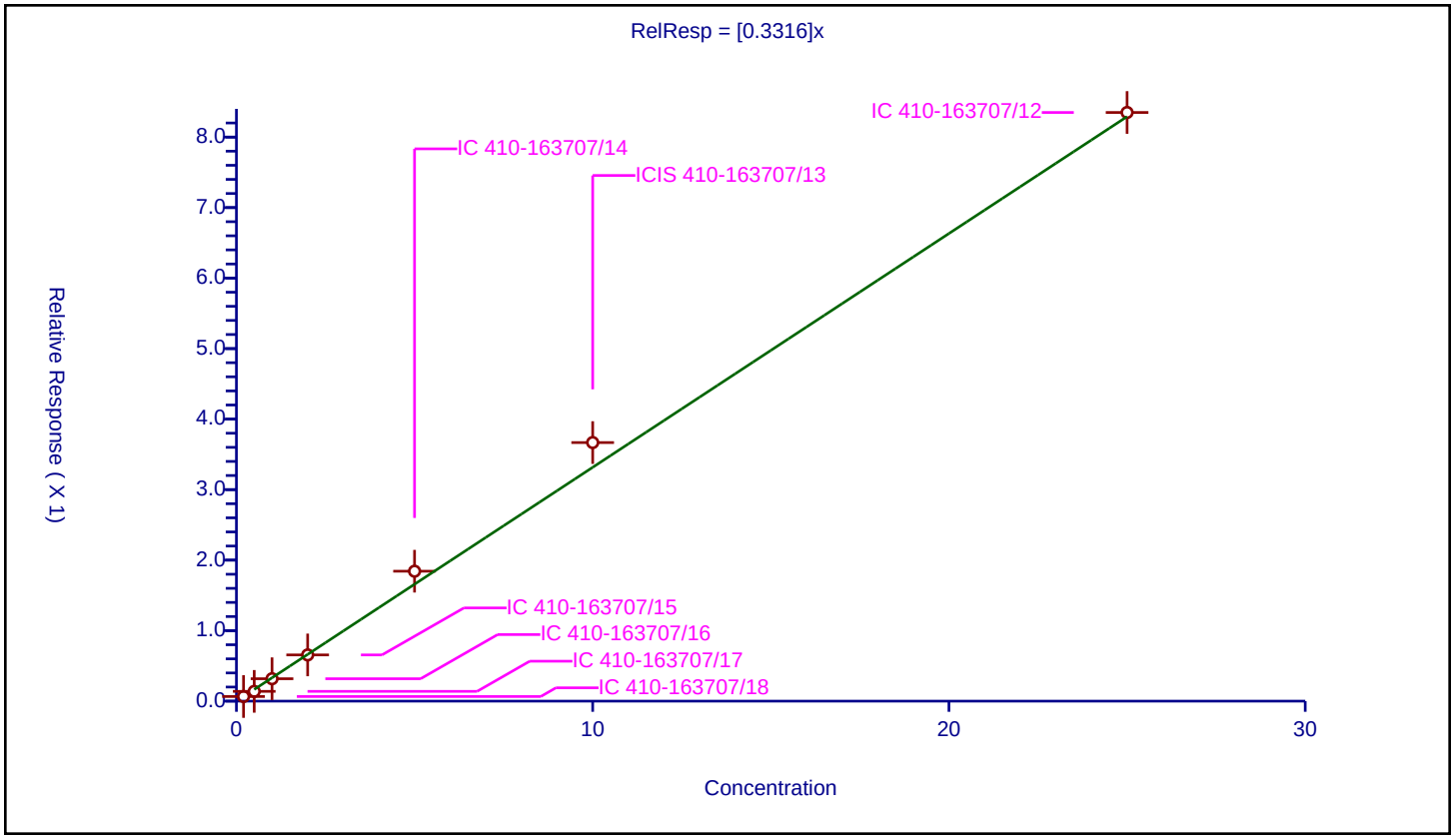
Curve Coefficients

Intercept:	0
Slope:	0.3316

Error Coefficients

Standard Error:	868000
Relative Standard Error:	9.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.06572	10.0	2203428.0	0.328602	Y
2	IC 410-163707/17	0.5	0.138893	10.0	2386508.0	0.277787	Y
3	IC 410-163707/16	1.0	0.317935	10.0	2167768.0	0.317935	Y
4	IC 410-163707/15	2.0	0.655511	10.0	2141536.0	0.327755	Y
5	IC 410-163707/14	5.0	1.842774	10.0	2115642.0	0.368555	Y
6	ICIS 410-163707/13	10.0	3.667602	10.0	2122537.0	0.36676	Y
7	IC 410-163707/12	25.0	8.349066	10.0	2314551.0	0.333963	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

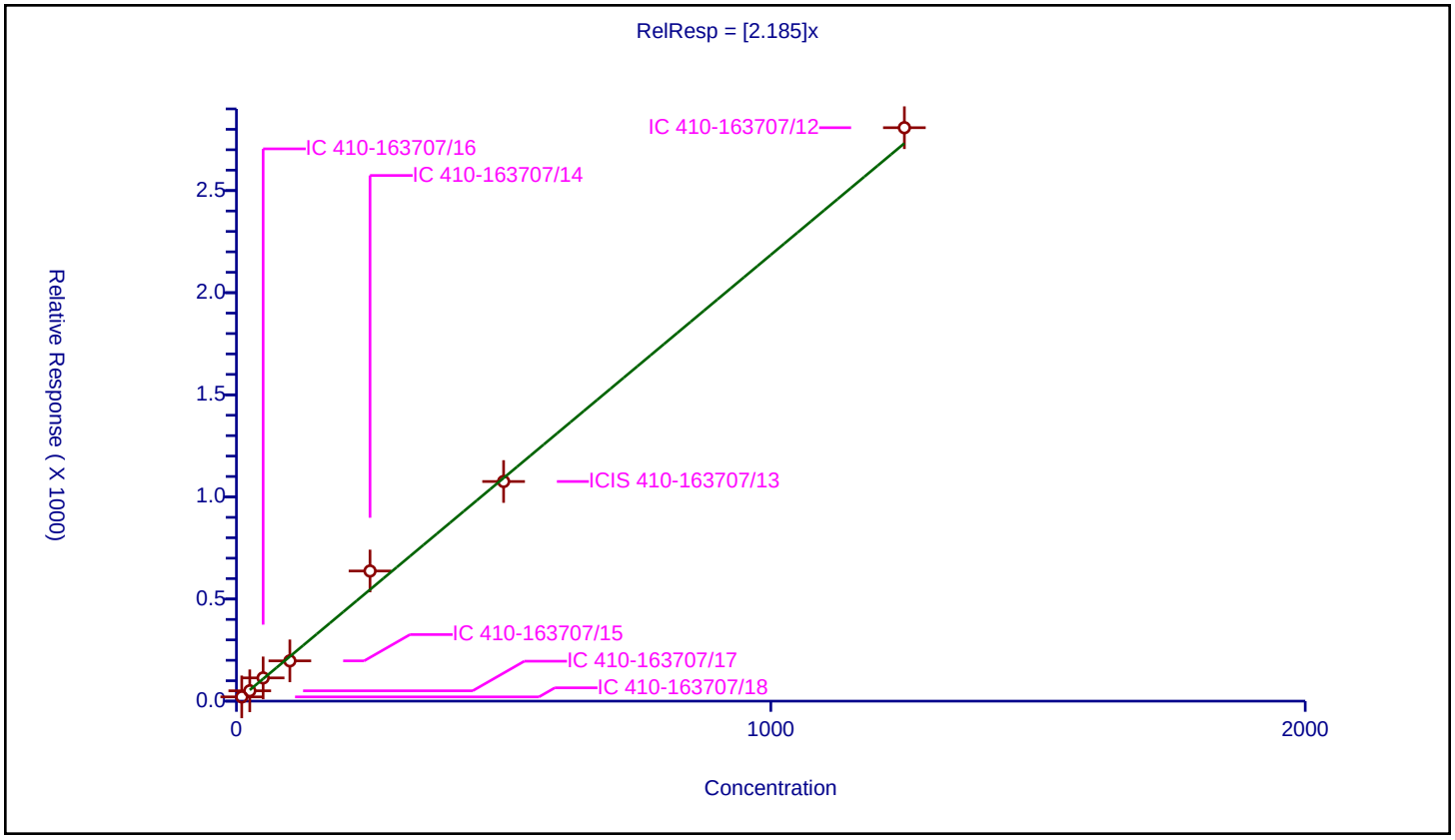
Curve Coefficients

Intercept:	0
Slope:	2.185

Error Coefficients

Standard Error:	3880000
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 410-163707/18	9.999702	20.75346	50.0	162132.0	2.075408	Y
2	IC 410-163707/17	24.999254	50.681521	50.0	162651.0	2.027321	Y
3	IC 410-163707/16	49.998508	113.72795	50.0	143084.0	2.274627	Y
4	IC 410-163707/15	99.997016	197.310363	50.0	162903.0	1.973163	Y
5	IC 410-163707/14	249.992539	637.227638	50.0	134380.0	2.548987	Y
6	ICIS 410-163707/13	499.985078	1075.461094	50.0	165205.0	2.150986	Y
7	IC 410-163707/12	1249.962694	2807.941435	50.0	153335.0	2.24642	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

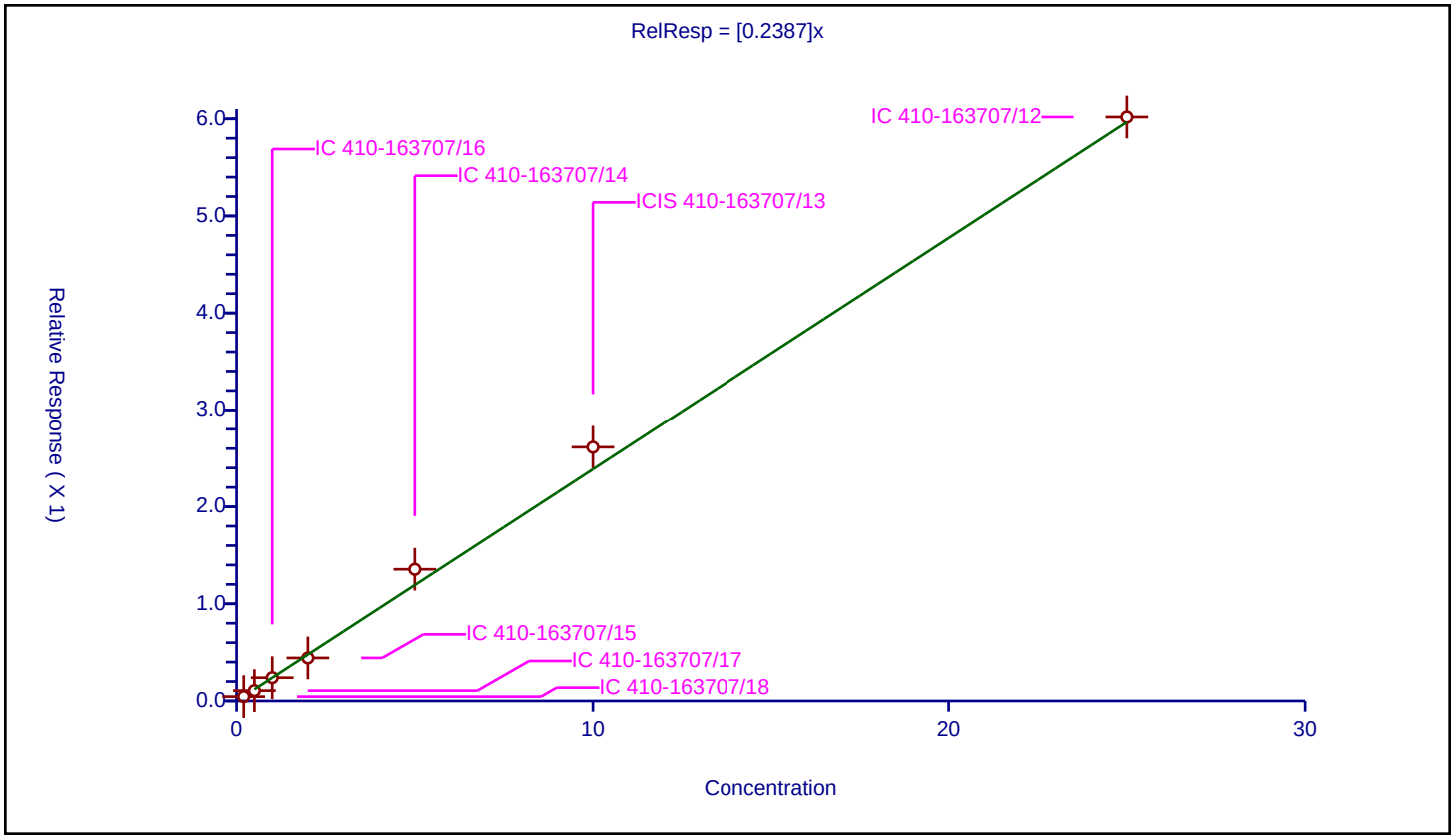
Curve Coefficients

Intercept:	0
Slope:	0.2387

Error Coefficients

Standard Error:	625000
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 410-163707/18	0.2	0.044717	10.0	2203428.0	0.223583	Y
2	IC 410-163707/17	0.5	0.106457	10.0	2386508.0	0.212914	Y
3	IC 410-163707/16	1.0	0.23962	10.0	2167768.0	0.23962	Y
4	IC 410-163707/15	2.0	0.442804	10.0	2141536.0	0.221402	Y
5	IC 410-163707/14	5.0	1.355716	10.0	2115642.0	0.271143	Y
6	ICIS 410-163707/13	10.0	2.61407	10.0	2122537.0	0.261407	Y
7	IC 410-163707/12	25.0	6.01826	10.0	2314551.0	0.24073	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

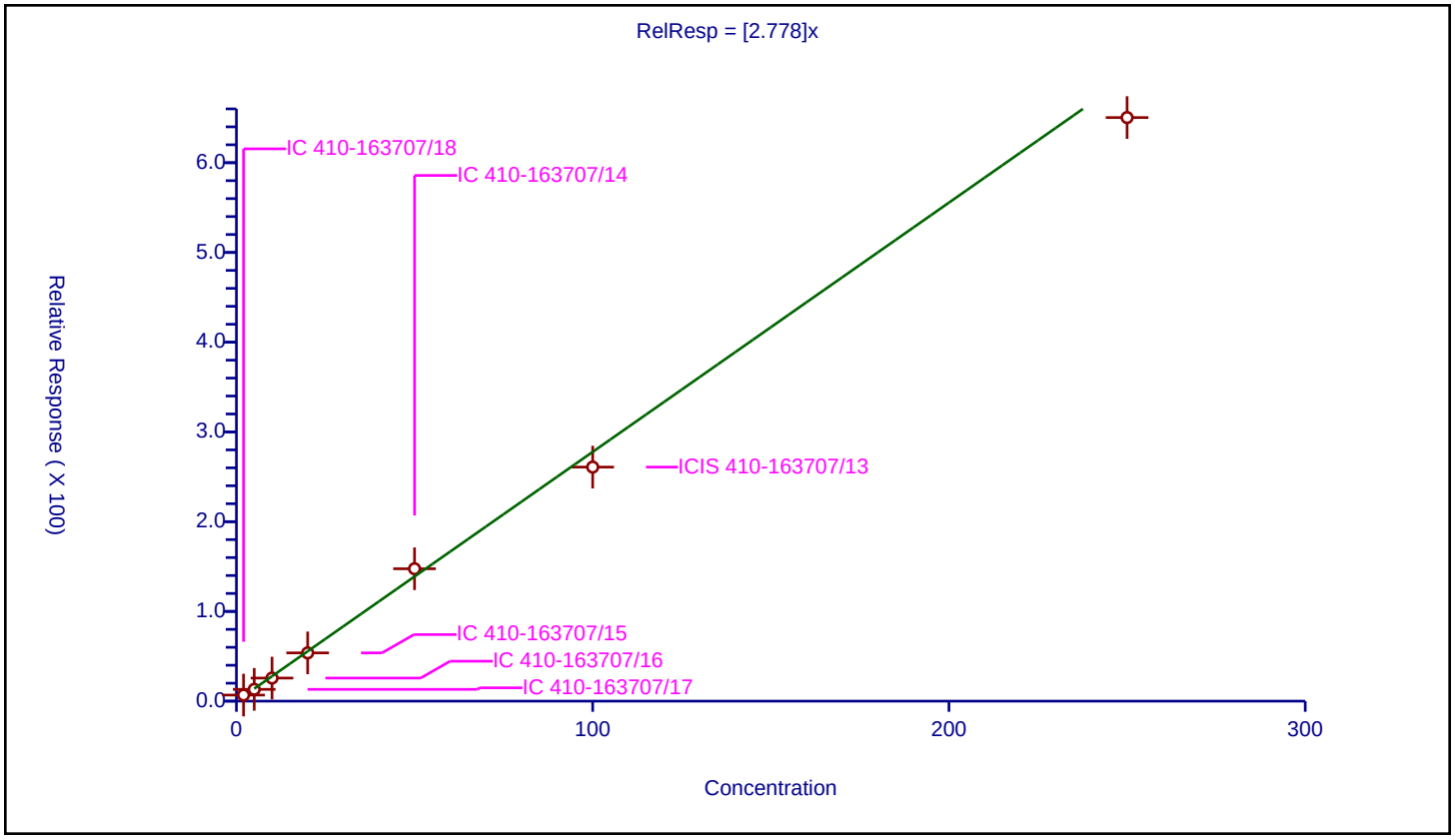
Curve Coefficients

Intercept:	0
Slope:	2.778

Error Coefficients

Standard Error:	905000
Relative Standard Error:	10.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	2.0	6.78953	50.0	162132.0	3.394765	Y
2	IC 410-163707/17	5.0	13.139483	50.0	162651.0	2.627897	Y
3	IC 410-163707/16	10.0	25.719158	50.0	143084.0	2.571916	Y
4	IC 410-163707/15	20.0	53.770342	50.0	162903.0	2.688517	Y
5	IC 410-163707/14	50.0	147.536092	50.0	134380.0	2.950722	Y
6	ICIS 410-163707/13	100.0	260.812324	50.0	165205.0	2.608123	Y
7	IC 410-163707/12	250.0	650.322496	50.0	153335.0	2.60129	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

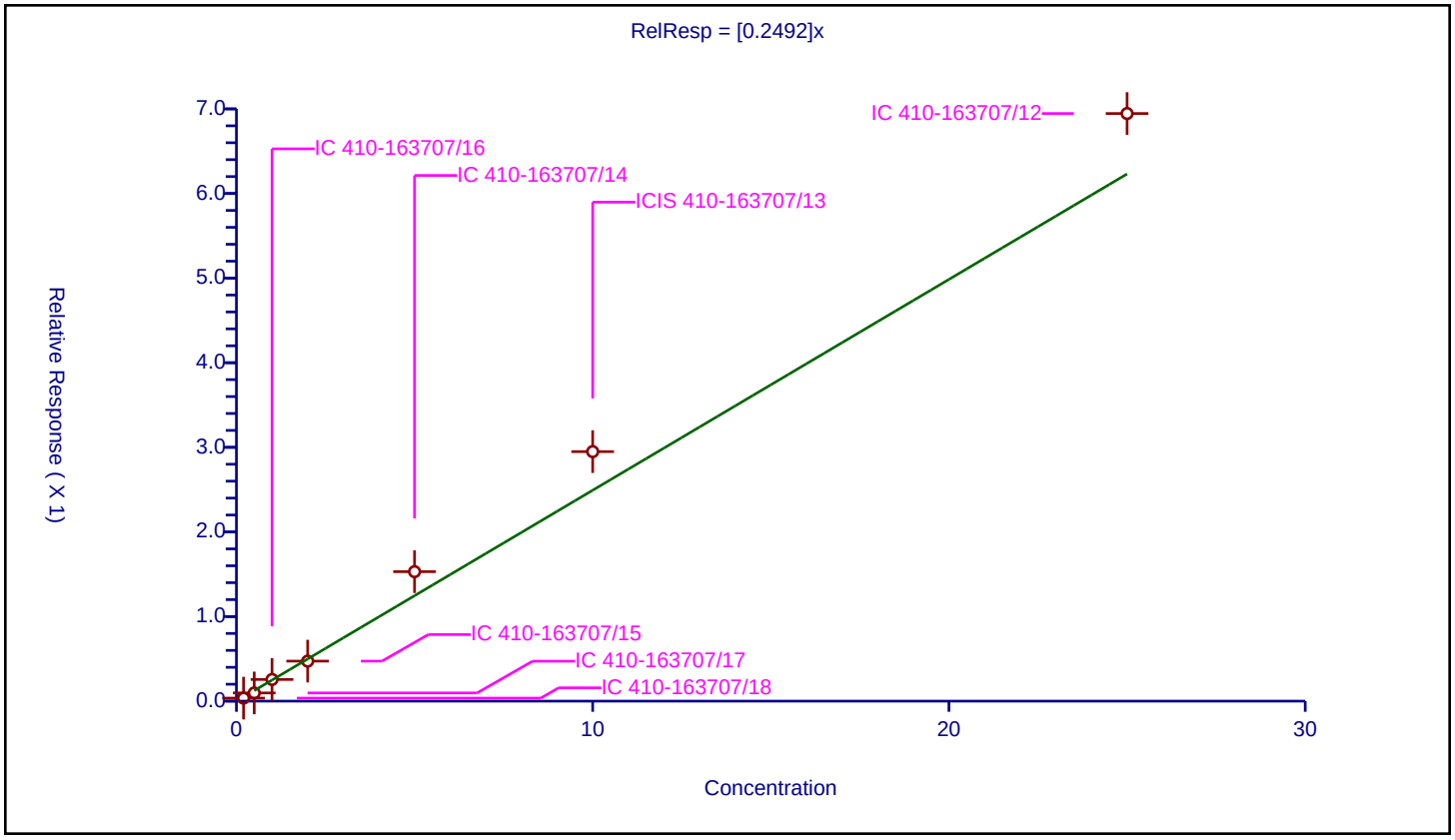
Curve Coefficients

Intercept:	0
Slope:	0.2492

Error Coefficients

Standard Error:	718000
Relative Standard Error:	19.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.959

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.035862	10.0	2203428.0	0.179312	Y
2	IC 410-163707/17	0.5	0.096941	10.0	2386508.0	0.193882	Y
3	IC 410-163707/16	1.0	0.256107	10.0	2167768.0	0.256107	Y
4	IC 410-163707/15	2.0	0.4731	10.0	2141536.0	0.23655	Y
5	IC 410-163707/14	5.0	1.530448	10.0	2115642.0	0.30609	Y
6	ICIS 410-163707/13	10.0	2.949079	10.0	2122537.0	0.294908	Y
7	IC 410-163707/12	25.0	6.94517	10.0	2314551.0	0.277807	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

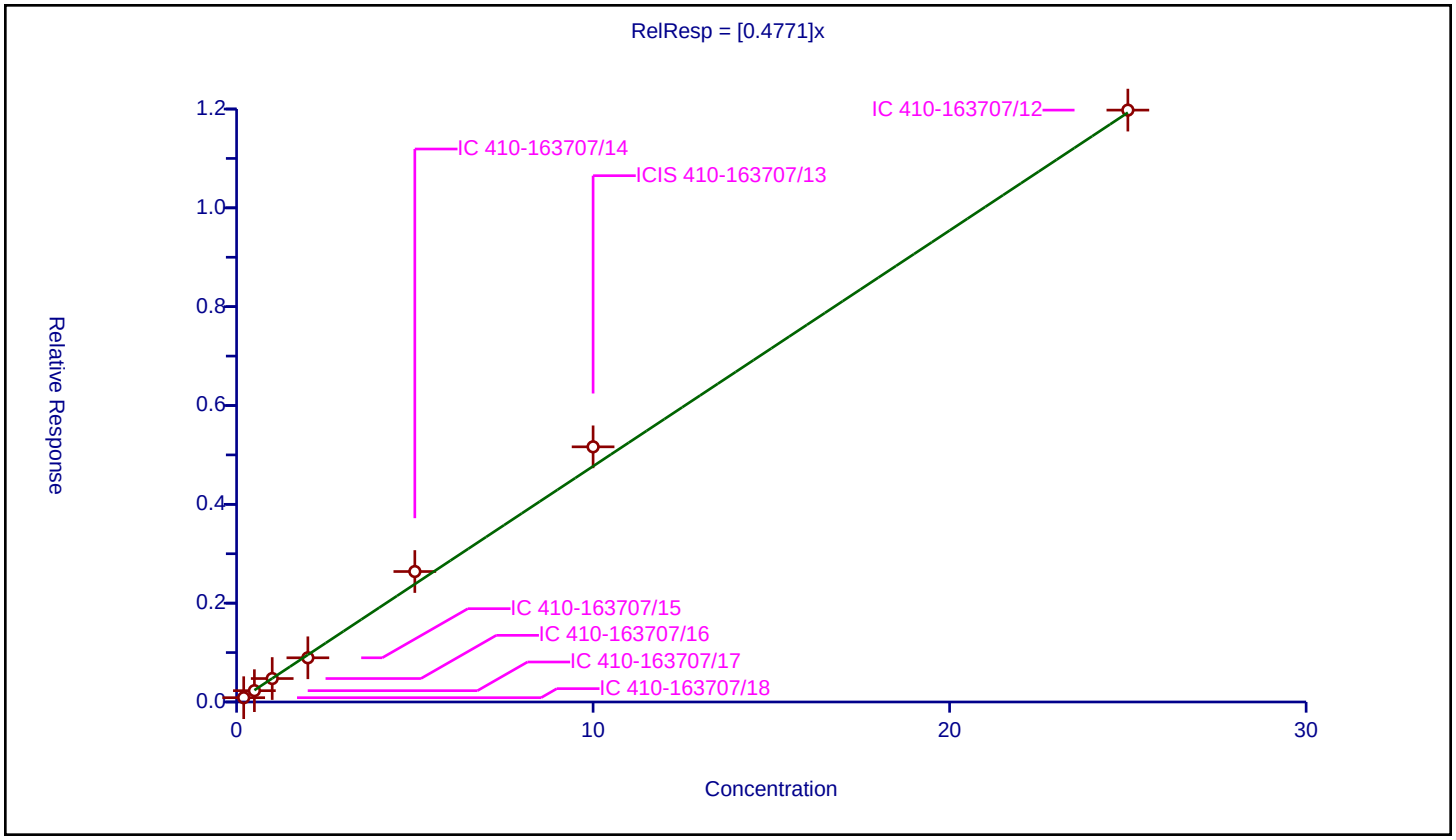
Curve Coefficients

Intercept:	0
Slope:	0.4771

Error Coefficients

Standard Error:	1240000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.0873	10.0	2203428.0	0.436502	Y
2	IC 410-163707/17	0.5	0.22905	10.0	2386508.0	0.4581	Y
3	IC 410-163707/16	1.0	0.474419	10.0	2167768.0	0.474419	Y
4	IC 410-163707/15	2.0	0.894409	10.0	2141536.0	0.447205	Y
5	IC 410-163707/14	5.0	2.640281	10.0	2115642.0	0.528056	Y
6	ICIS 410-163707/13	10.0	5.163557	10.0	2122537.0	0.516356	Y
7	IC 410-163707/12	25.0	11.977787	10.0	2314551.0	0.479111	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

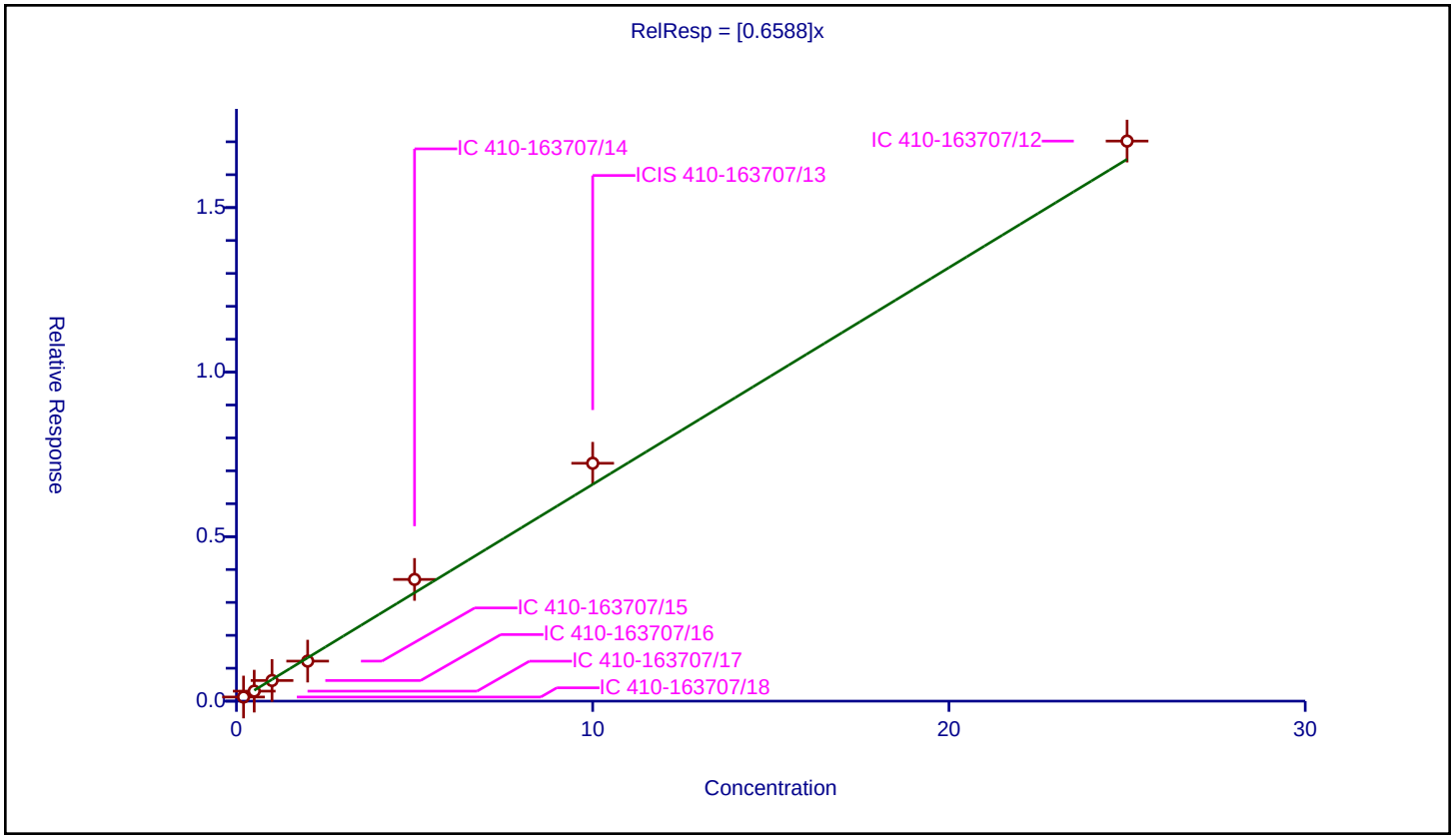
Curve Coefficients

Intercept:	0
Slope:	0.6588

Error Coefficients

Standard Error:	1760000
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 410-163707/18	0.2	0.12481	10.0	2203428.0	0.62405	Y
2	IC 410-163707/17	0.5	0.304269	10.0	2386508.0	0.608538	Y
3	IC 410-163707/16	1.0	0.627184	10.0	2167768.0	0.627184	Y
4	IC 410-163707/15	2.0	1.216225	10.0	2141536.0	0.608113	Y
5	IC 410-163707/14	5.0	3.698523	10.0	2115642.0	0.739705	Y
6	ICIS 410-163707/13	10.0	7.230027	10.0	2122537.0	0.723003	Y
7	IC 410-163707/12	25.0	17.021941	10.0	2314551.0	0.680878	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

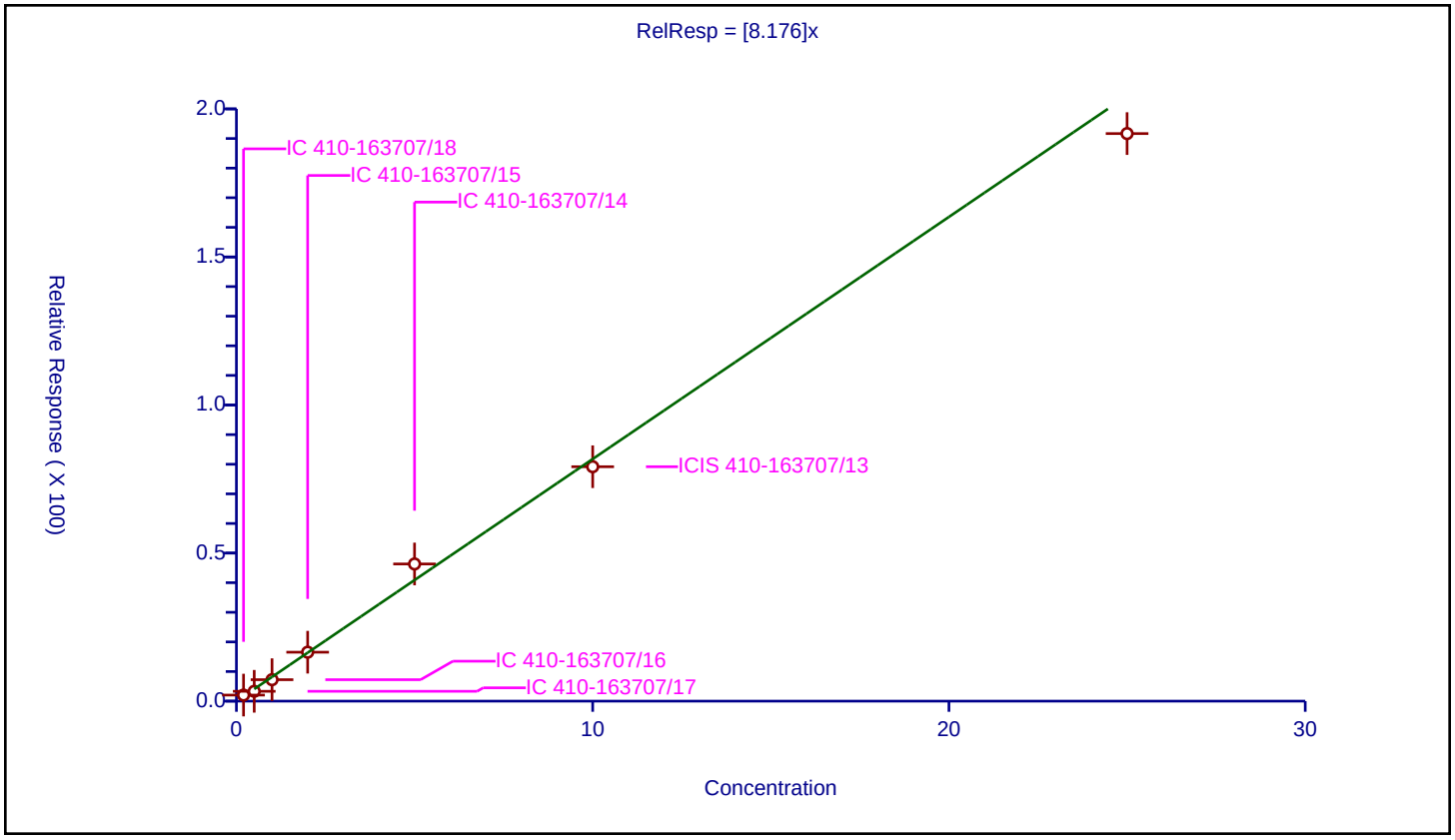
Curve Coefficients

Intercept:	0
Slope:	8.176

Error Coefficients

Standard Error:	269000
Relative Standard Error:	14.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.967

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	2.04463	50.0	162132.0	10.223152	Y
2	IC 410-163707/17	0.5	3.324296	50.0	162651.0	6.648591	Y
3	IC 410-163707/16	1.0	7.248539	50.0	143084.0	7.248539	Y
4	IC 410-163707/15	2.0	16.528855	50.0	162903.0	8.264427	Y
5	IC 410-163707/14	5.0	46.328323	50.0	134380.0	9.265665	Y
6	ICIS 410-163707/13	10.0	79.164372	50.0	165205.0	7.916437	Y
7	IC 410-163707/12	25.0	191.660743	50.0	153335.0	7.66643	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

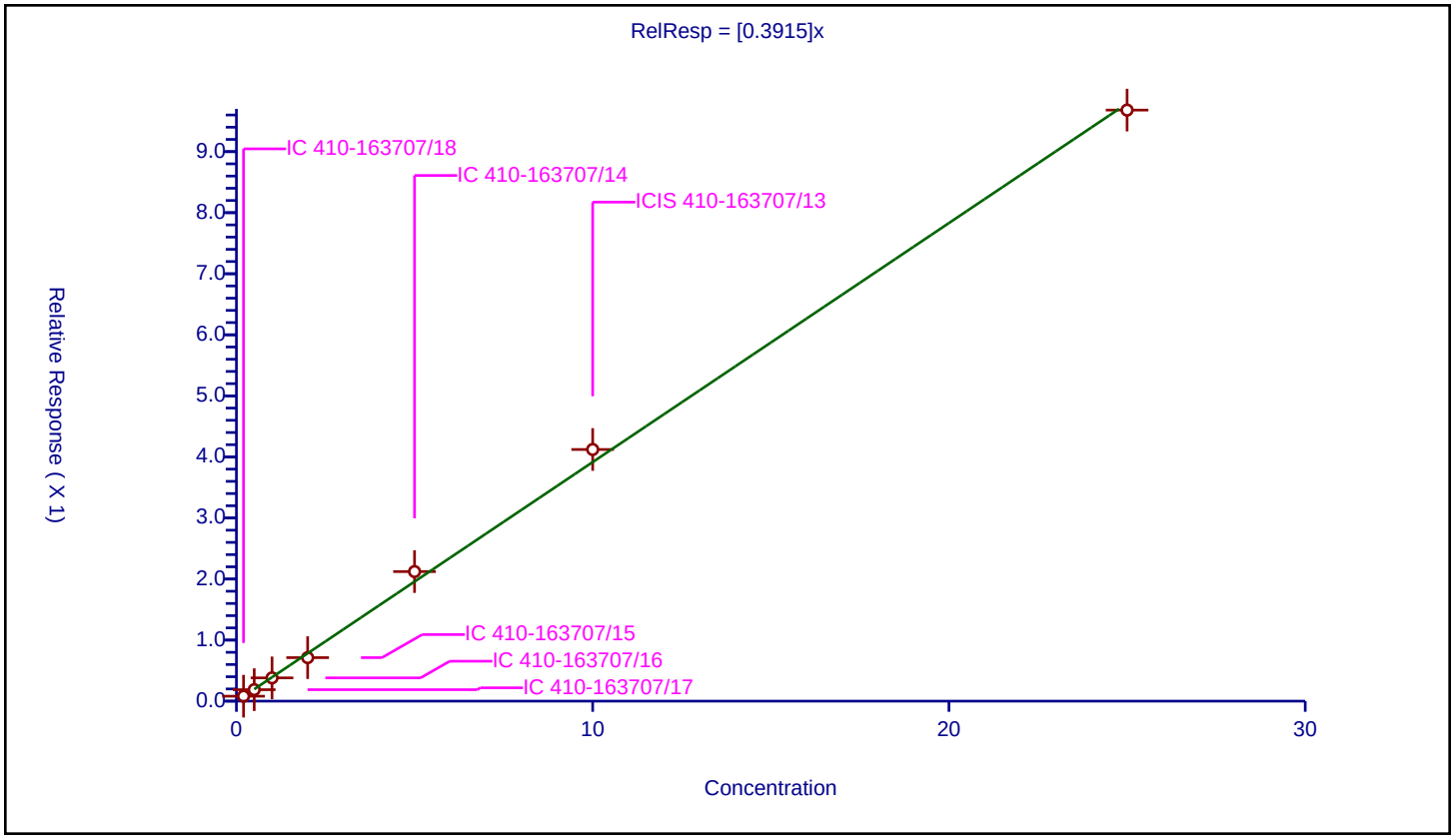
Curve Coefficients

Intercept:	0
Slope:	0.3915

Error Coefficients

Standard Error:	1000000
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 410-163707/18	0.2	0.080779	10.0	2203428.0	0.403893	Y
2	IC 410-163707/17	0.5	0.187793	10.0	2386508.0	0.375586	Y
3	IC 410-163707/16	1.0	0.381097	10.0	2167768.0	0.381097	Y
4	IC 410-163707/15	2.0	0.712475	10.0	2141536.0	0.356237	Y
5	IC 410-163707/14	5.0	2.122169	10.0	2115642.0	0.424434	Y
6	ICIS 410-163707/13	10.0	4.121657	10.0	2122537.0	0.412166	Y
7	IC 410-163707/12	25.0	9.680422	10.0	2314551.0	0.387217	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

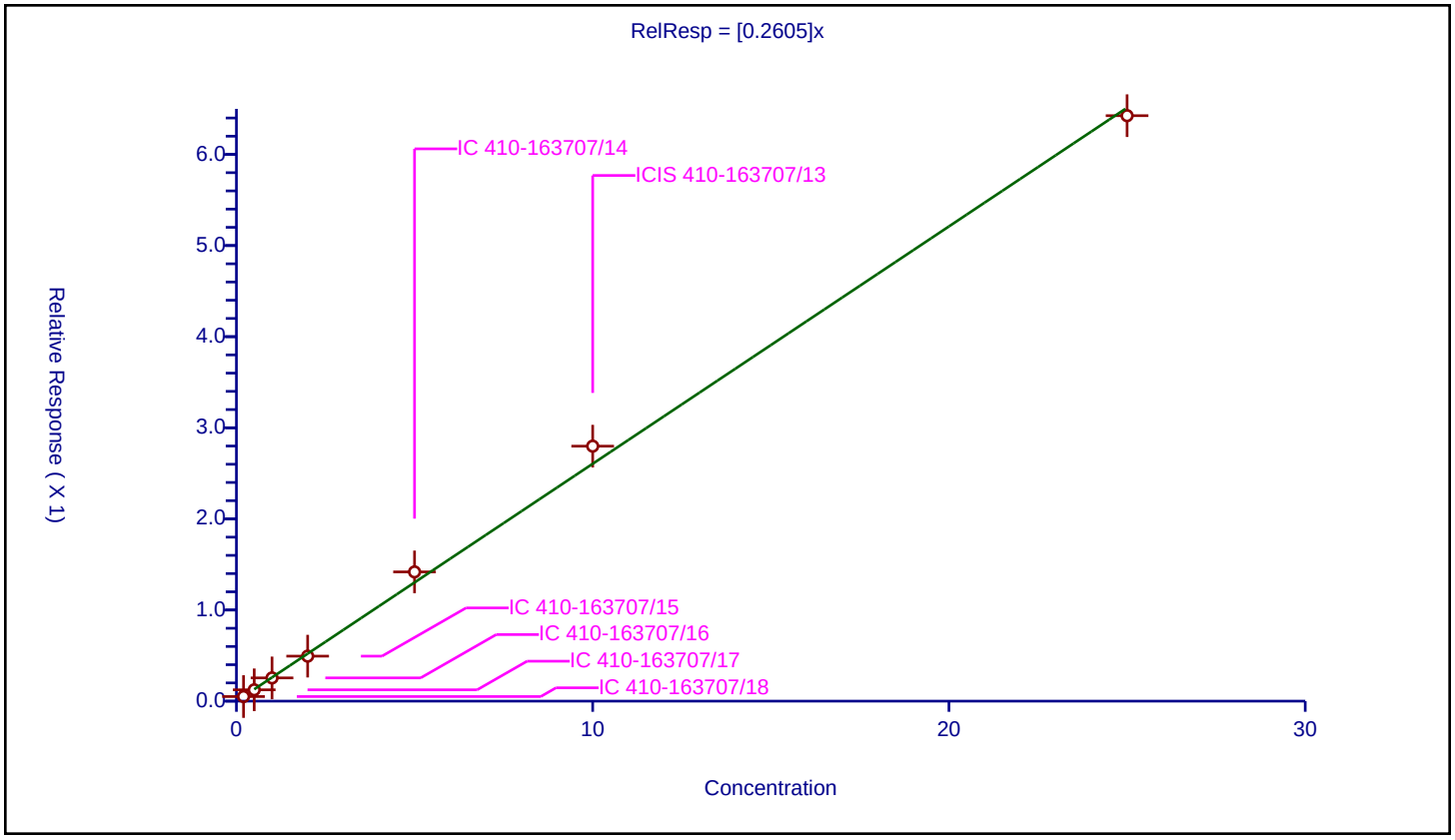
Curve Coefficients

Intercept:	0
Slope:	0.2605

Error Coefficients

Standard Error:	667000
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 410-163707/18	0.2	0.05048	10.0	2203428.0	0.252402	Y
2	IC 410-163707/17	0.5	0.124353	10.0	2386508.0	0.248706	Y
3	IC 410-163707/16	1.0	0.254903	10.0	2167768.0	0.254903	Y
4	IC 410-163707/15	2.0	0.494001	10.0	2141536.0	0.247	Y
5	IC 410-163707/14	5.0	1.41835	10.0	2115642.0	0.28367	Y
6	ICIS 410-163707/13	10.0	2.798495	10.0	2122537.0	0.27985	Y
7	IC 410-163707/12	25.0	6.425333	10.0	2314551.0	0.257013	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

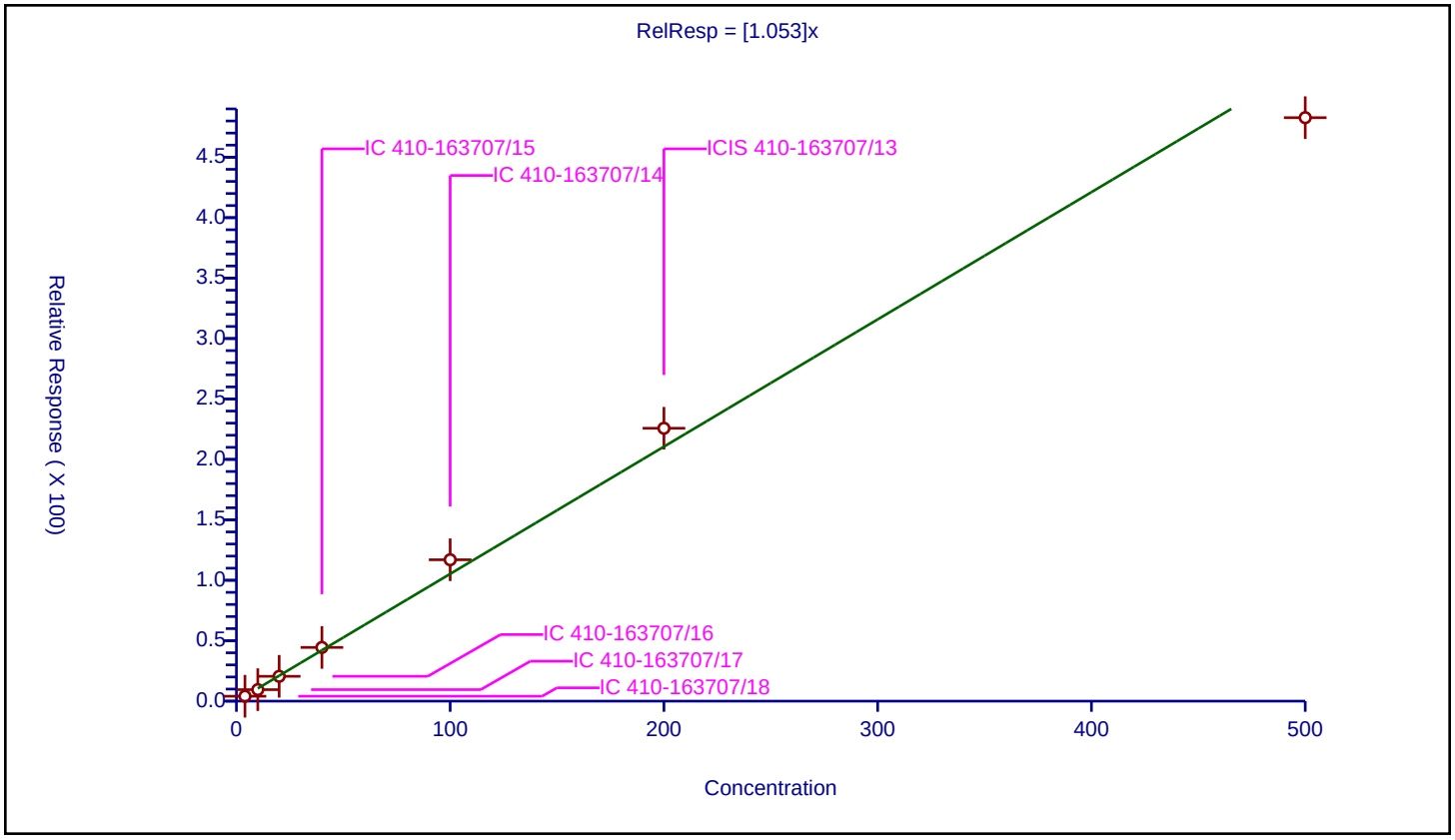
Curve Coefficients

Intercept:	0
Slope:	1.053

Error Coefficients

Standard Error:	692000
Relative Standard Error:	8.0
Correlation Coefficient:	0.989
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	4.0	4.062431	50.0	162132.0	1.015608	Y
2	IC 410-163707/17	10.0	9.510855	50.0	162651.0	0.951085	Y
3	IC 410-163707/16	20.0	20.558204	50.0	143084.0	1.02791	Y
4	IC 410-163707/15	40.0	44.439636	50.0	162903.0	1.110991	Y
5	IC 410-163707/14	100.0	116.969787	50.0	134380.0	1.169698	Y
6	ICIS 410-163707/13	200.0	225.760722	50.0	165205.0	1.128804	Y
7	IC 410-163707/12	500.0	482.73747	50.0	153335.0	0.965475	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

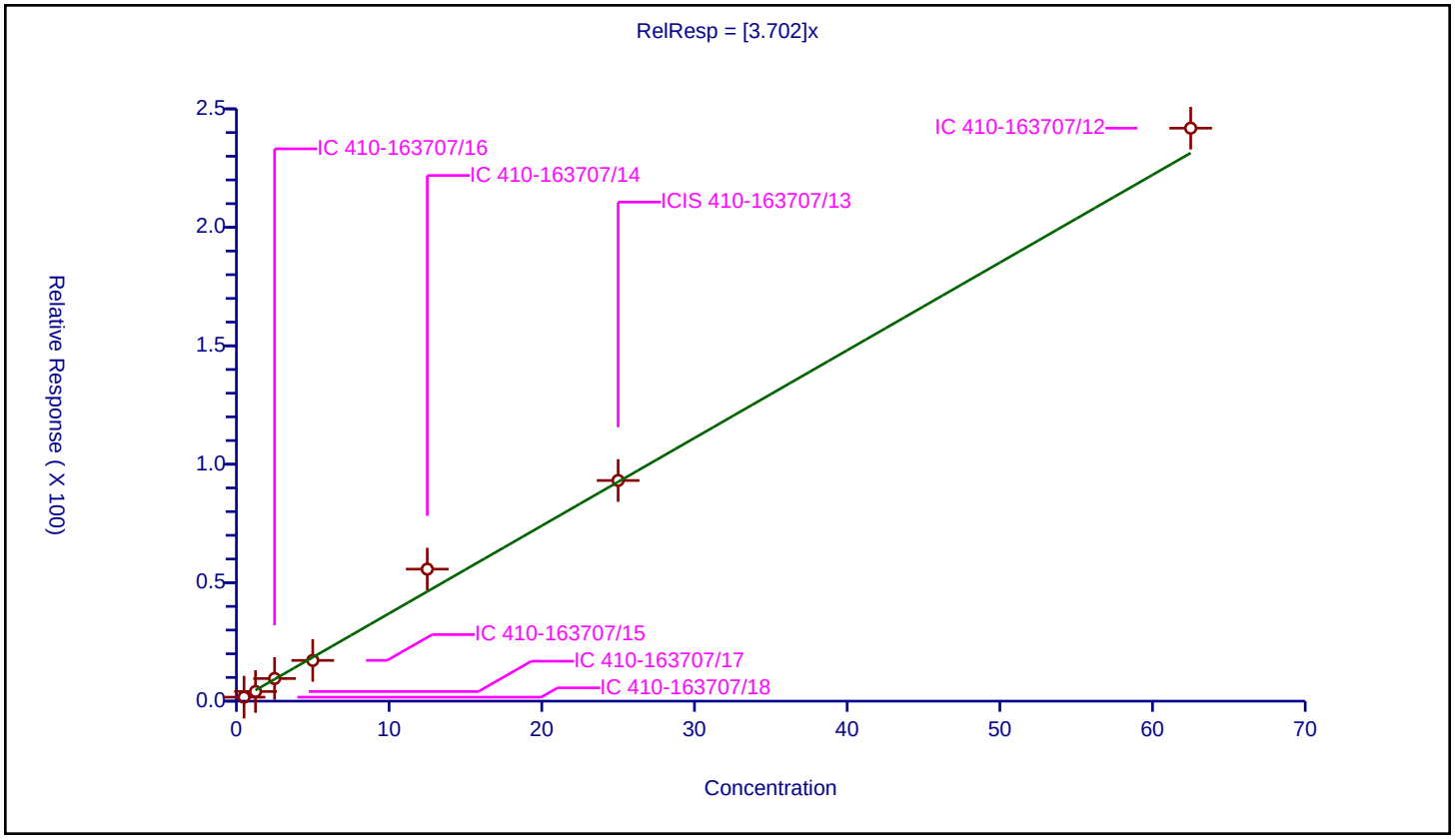
Curve Coefficients

Intercept:	0
Slope:	3.702

Error Coefficients

Standard Error:	334000
Relative Standard Error:	11.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.5	1.677337	50.0	162132.0	3.354674	Y
2	IC 410-163707/17	1.25	4.060227	50.0	162651.0	3.248182	Y
3	IC 410-163707/16	2.5	9.552431	50.0	143084.0	3.820972	Y
4	IC 410-163707/15	5.0	17.19244	50.0	162903.0	3.438488	Y
5	IC 410-163707/14	12.5	55.725554	50.0	134380.0	4.458044	Y
6	ICIS 410-163707/13	25.0	93.15275	50.0	165205.0	3.72611	Y
7	IC 410-163707/12	62.5	241.858023	50.0	153335.0	3.869728	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

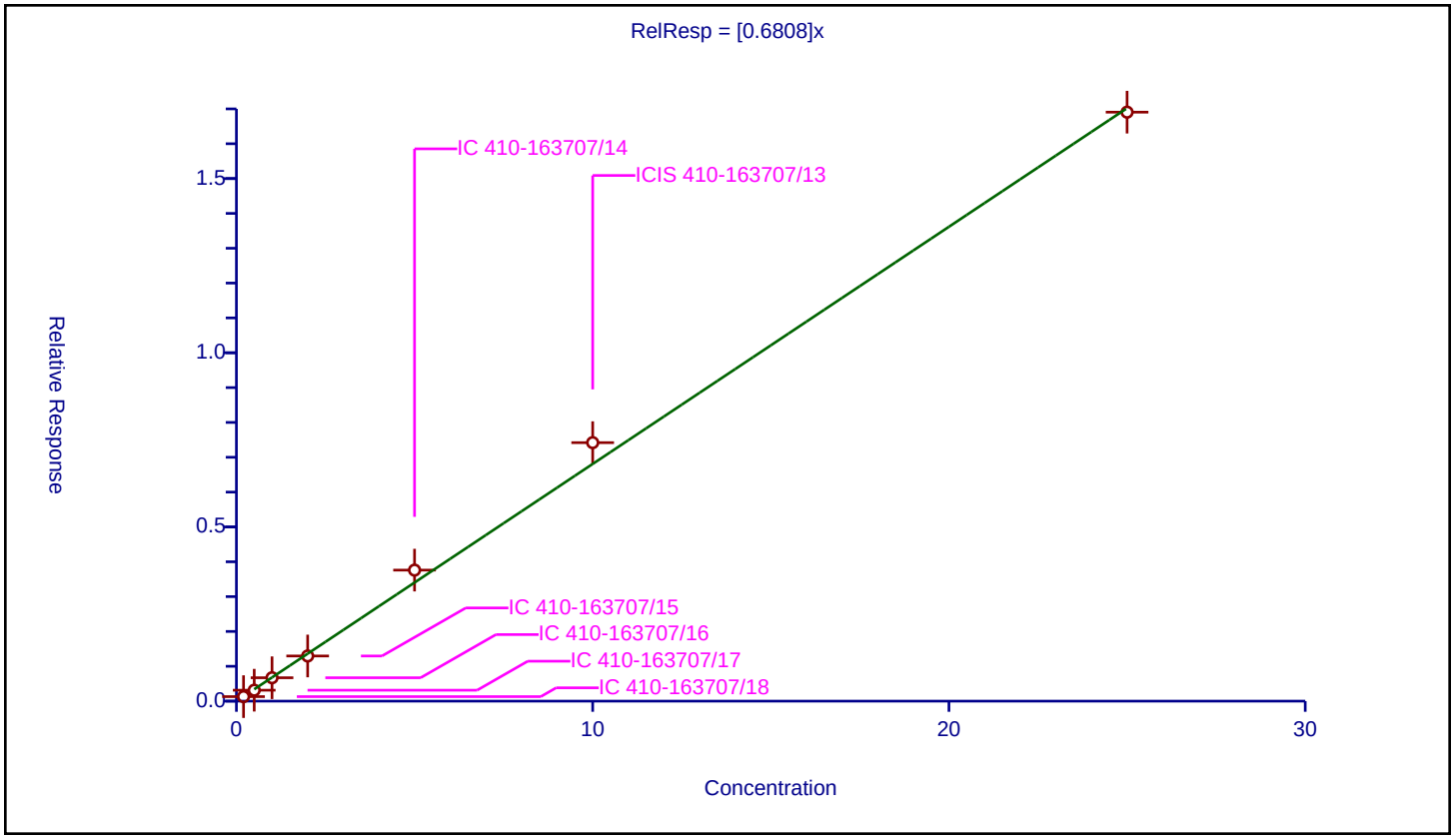
Curve Coefficients

Intercept:	0
Slope:	0.6808

Error Coefficients

Standard Error:	1760000
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 410-163707/18	0.2	0.12958	10.0	2203428.0	0.6479	Y
2	IC 410-163707/17	0.5	0.313831	10.0	2386508.0	0.627662	Y
3	IC 410-163707/16	1.0	0.671663	10.0	2167768.0	0.671663	Y
4	IC 410-163707/15	2.0	1.296476	10.0	2141536.0	0.648238	Y
5	IC 410-163707/14	5.0	3.760731	10.0	2115642.0	0.752146	Y
6	ICIS 410-163707/13	10.0	7.419904	10.0	2122537.0	0.74199	Y
7	IC 410-163707/12	25.0	16.905776	10.0	2314551.0	0.676231	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

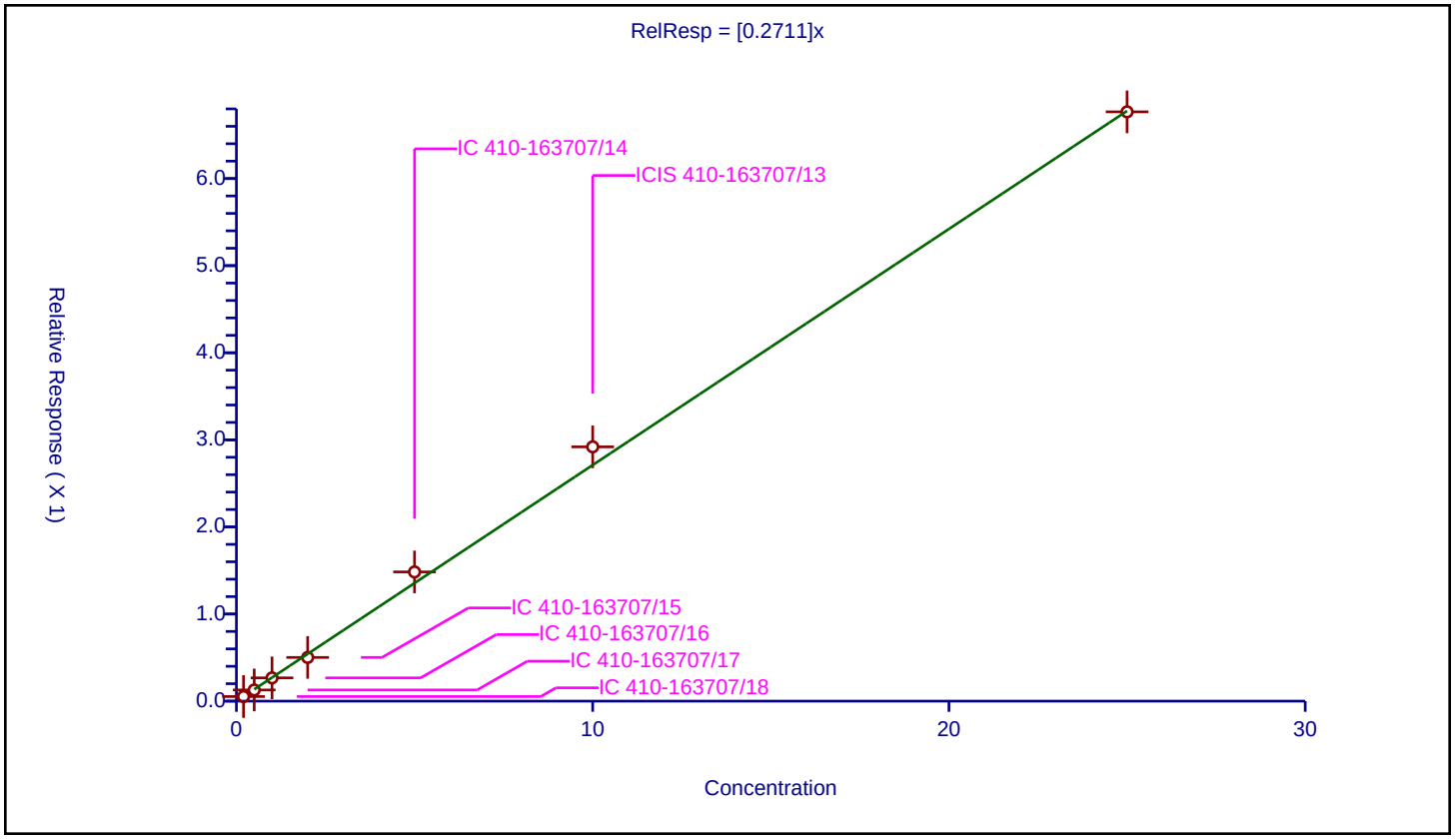
Curve Coefficients

Intercept:	0
Slope:	0.2711

Error Coefficients

Standard Error:	701000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.052713	10.0	2203428.0	0.263567	Y
2	IC 410-163707/17	0.5	0.128393	10.0	2386508.0	0.256785	Y
3	IC 410-163707/16	1.0	0.26703	10.0	2167768.0	0.26703	Y
4	IC 410-163707/15	2.0	0.501523	10.0	2141536.0	0.250762	Y
5	IC 410-163707/14	5.0	1.483578	10.0	2115642.0	0.296716	Y
6	ICIS 410-163707/13	10.0	2.919586	10.0	2122537.0	0.291959	Y
7	IC 410-163707/12	25.0	6.766146	10.0	2314551.0	0.270646	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

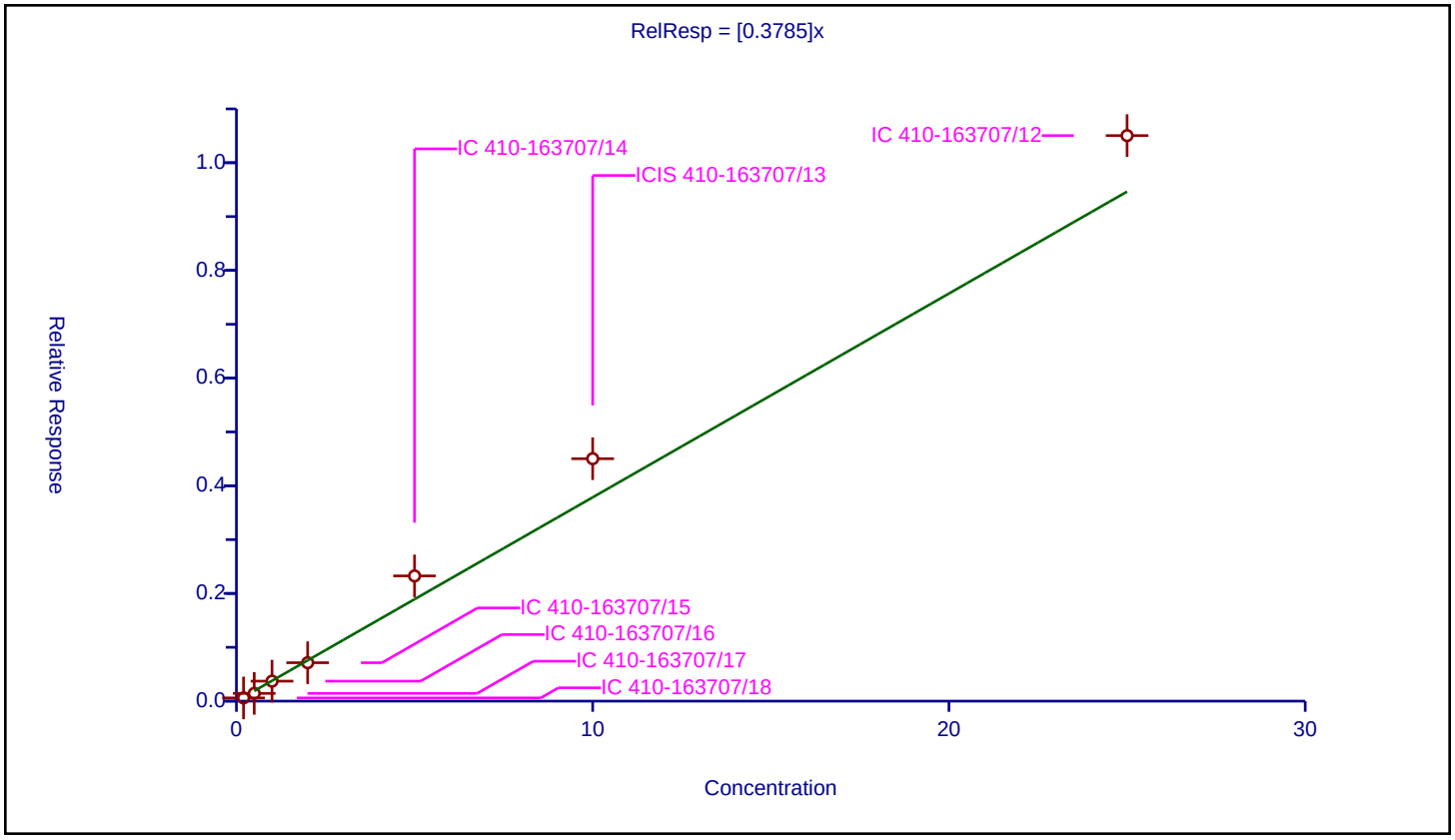
Curve Coefficients

Intercept:	0
Slope:	0.3785

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	18.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.962

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.059716	10.0	2203428.0	0.29858	Y
2	IC 410-163707/17	0.5	0.143792	10.0	2386508.0	0.287583	Y
3	IC 410-163707/16	1.0	0.371188	10.0	2167768.0	0.371188	Y
4	IC 410-163707/15	2.0	0.713493	10.0	2141536.0	0.356746	Y
5	IC 410-163707/14	5.0	2.325809	10.0	2115642.0	0.465162	Y
6	ICIS 410-163707/13	10.0	4.502927	10.0	2122537.0	0.450293	Y
7	IC 410-163707/12	25.0	10.503925	10.0	2314551.0	0.420157	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

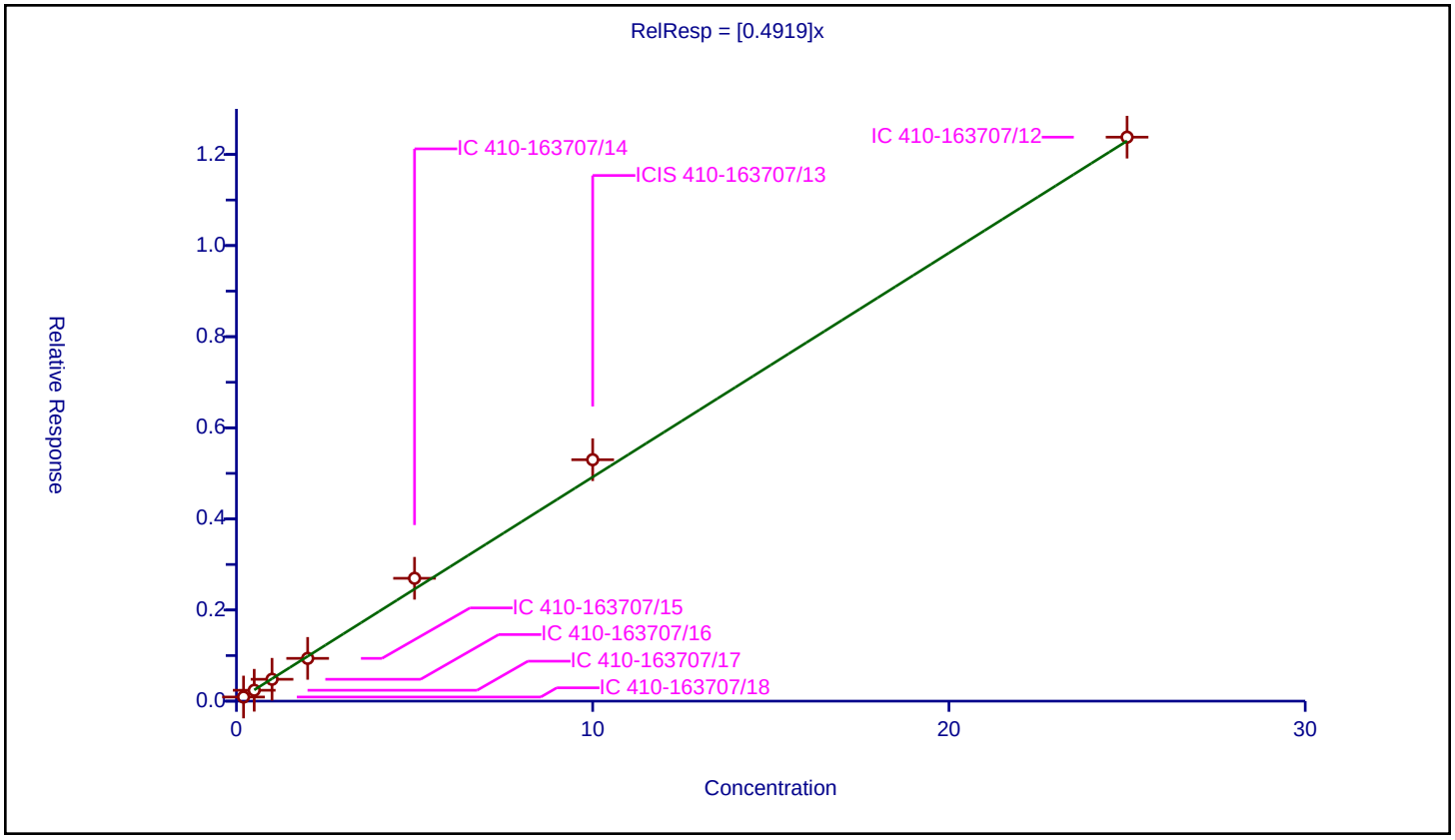
Curve Coefficients

Intercept:	0
Slope:	0.4919

Error Coefficients

Standard Error:	1280000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.090577	10.0	2203428.0	0.452885	Y
2	IC 410-163707/17	0.5	0.238554	10.0	2386508.0	0.477107	Y
3	IC 410-163707/16	1.0	0.479747	10.0	2167768.0	0.479747	Y
4	IC 410-163707/15	2.0	0.938443	10.0	2141536.0	0.469222	Y
5	IC 410-163707/14	5.0	2.69668	10.0	2115642.0	0.539336	Y
6	ICIS 410-163707/13	10.0	5.299479	10.0	2122537.0	0.529948	Y
7	IC 410-163707/12	25.0	12.379468	10.0	2314551.0	0.495179	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

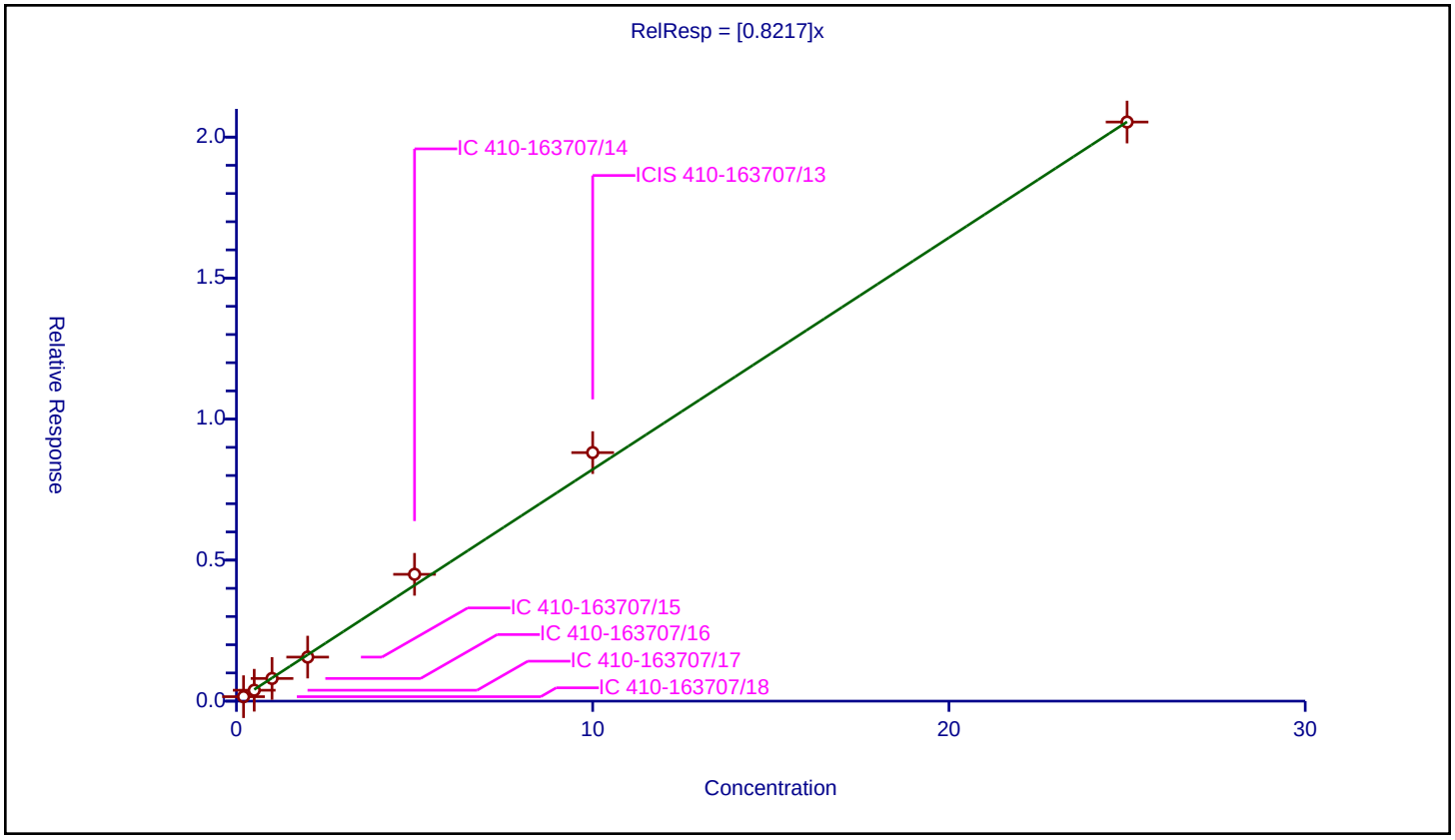
Curve Coefficients

Intercept:	0
Slope:	0.8217

Error Coefficients

Standard Error:	2130000
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 410-163707/18	0.2	0.15804	10.0	2203428.0	0.790201	Y
2	IC 410-163707/17	0.5	0.387022	10.0	2386508.0	0.774043	Y
3	IC 410-163707/16	1.0	0.804597	10.0	2167768.0	0.804597	Y
4	IC 410-163707/15	2.0	1.561902	10.0	2141536.0	0.780951	Y
5	IC 410-163707/14	5.0	4.497117	10.0	2115642.0	0.899423	Y
6	ICIS 410-163707/13	10.0	8.812336	10.0	2122537.0	0.881234	Y
7	IC 410-163707/12	25.0	20.534276	10.0	2314551.0	0.821371	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

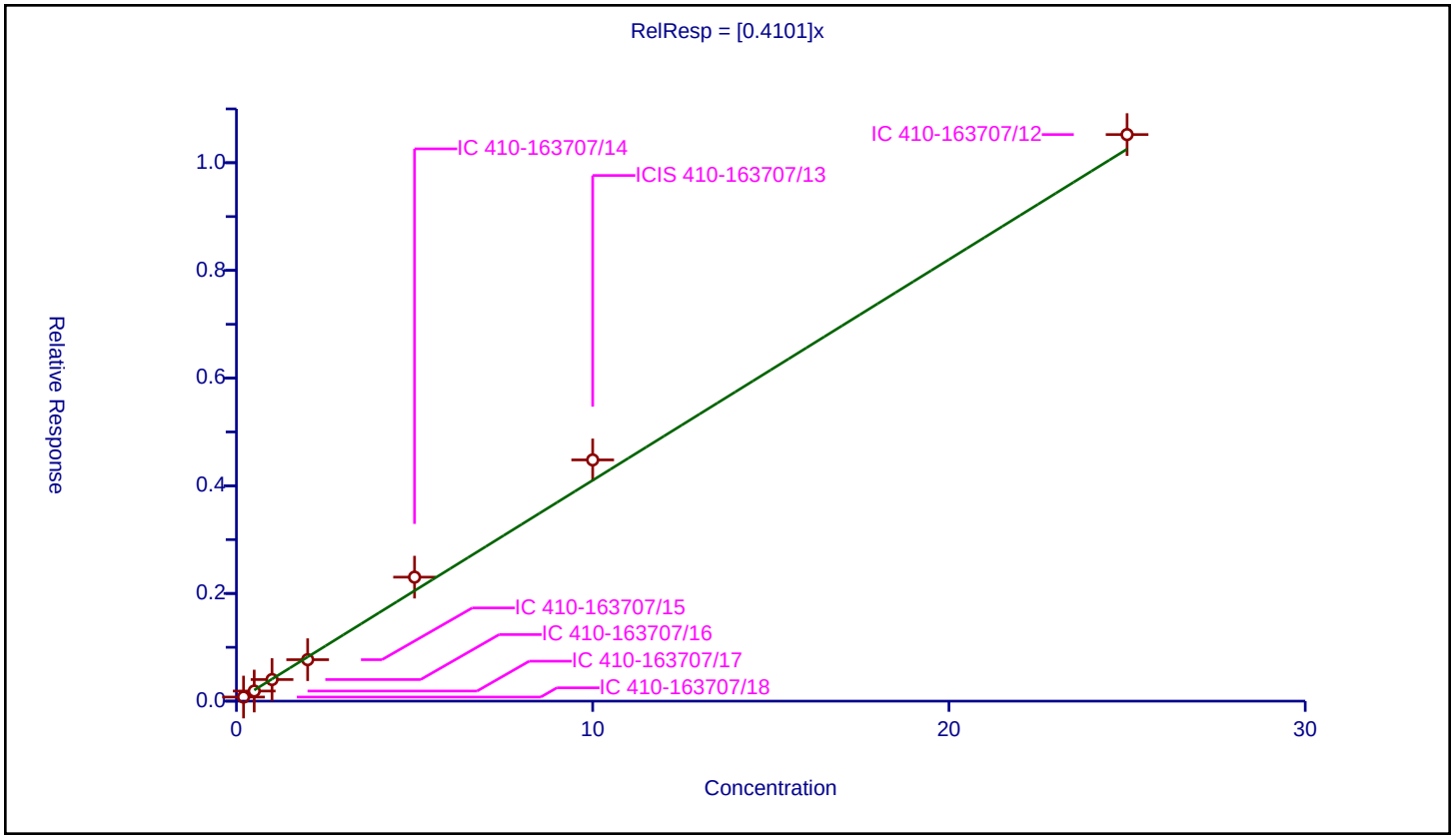
Curve Coefficients

Intercept:	0
Slope:	0.4101

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	8.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.0759	10.0	2203428.0	0.3795	Y
2	IC 410-163707/17	0.5	0.187843	10.0	2386508.0	0.375687	Y
3	IC 410-163707/16	1.0	0.401108	10.0	2167768.0	0.401108	Y
4	IC 410-163707/15	2.0	0.770069	10.0	2141536.0	0.385034	Y
5	IC 410-163707/14	5.0	2.303206	10.0	2115642.0	0.460641	Y
6	ICIS 410-163707/13	10.0	4.480596	10.0	2122537.0	0.44806	Y
7	IC 410-163707/12	25.0	10.523216	10.0	2314551.0	0.420929	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

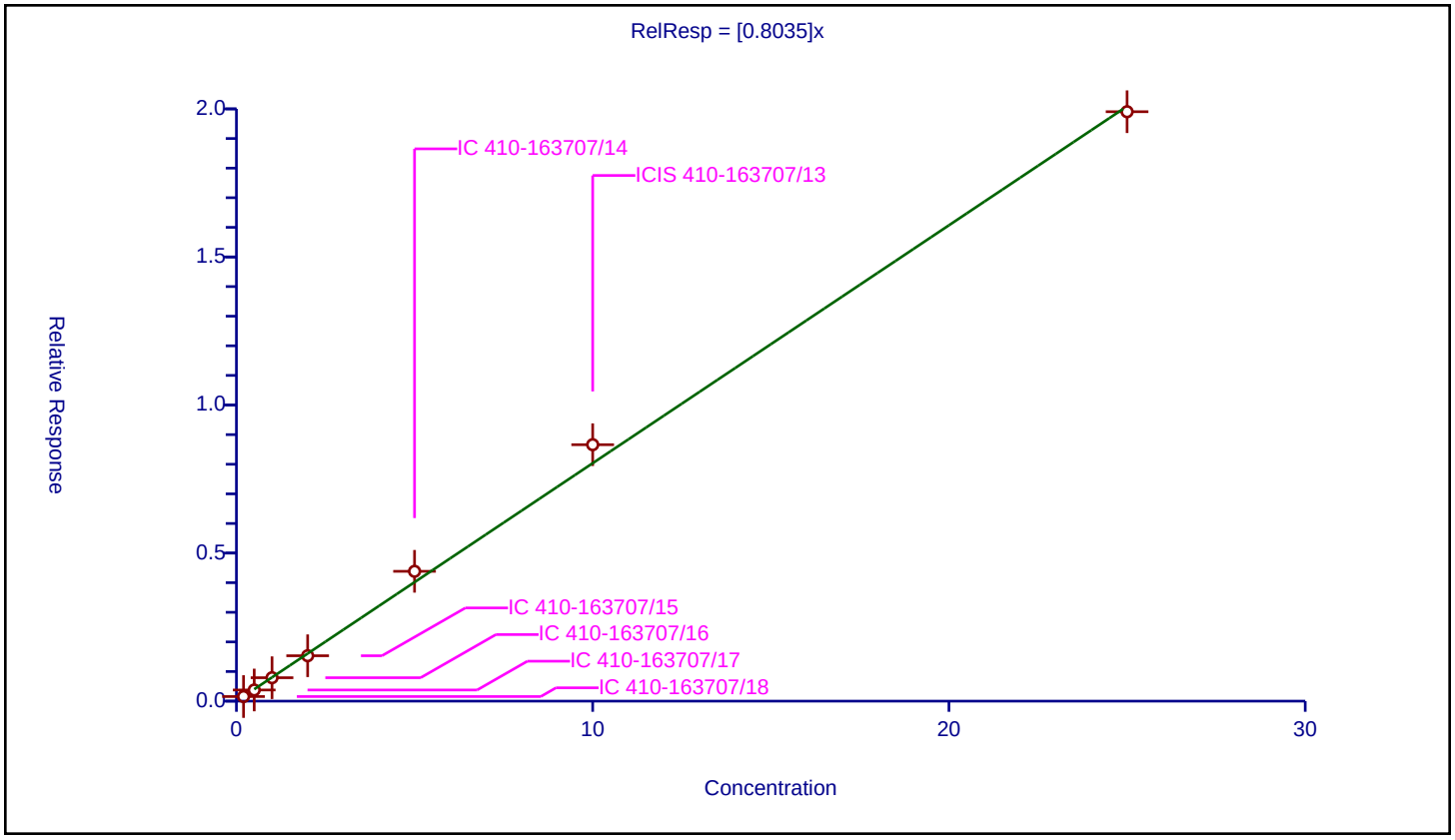
Curve Coefficients

Intercept:	0
Slope:	0.8035

Error Coefficients

Standard Error:	2070000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.155095	10.0	2203428.0	0.775473	Y
2	IC 410-163707/17	0.5	0.376261	10.0	2386508.0	0.752522	Y
3	IC 410-163707/16	1.0	0.790989	10.0	2167768.0	0.790989	Y
4	IC 410-163707/15	2.0	1.532937	10.0	2141536.0	0.766469	Y
5	IC 410-163707/14	5.0	4.383866	10.0	2115642.0	0.876773	Y
6	ICIS 410-163707/13	10.0	8.660297	10.0	2122537.0	0.86603	Y
7	IC 410-163707/12	25.0	19.90447	10.0	2314551.0	0.796179	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

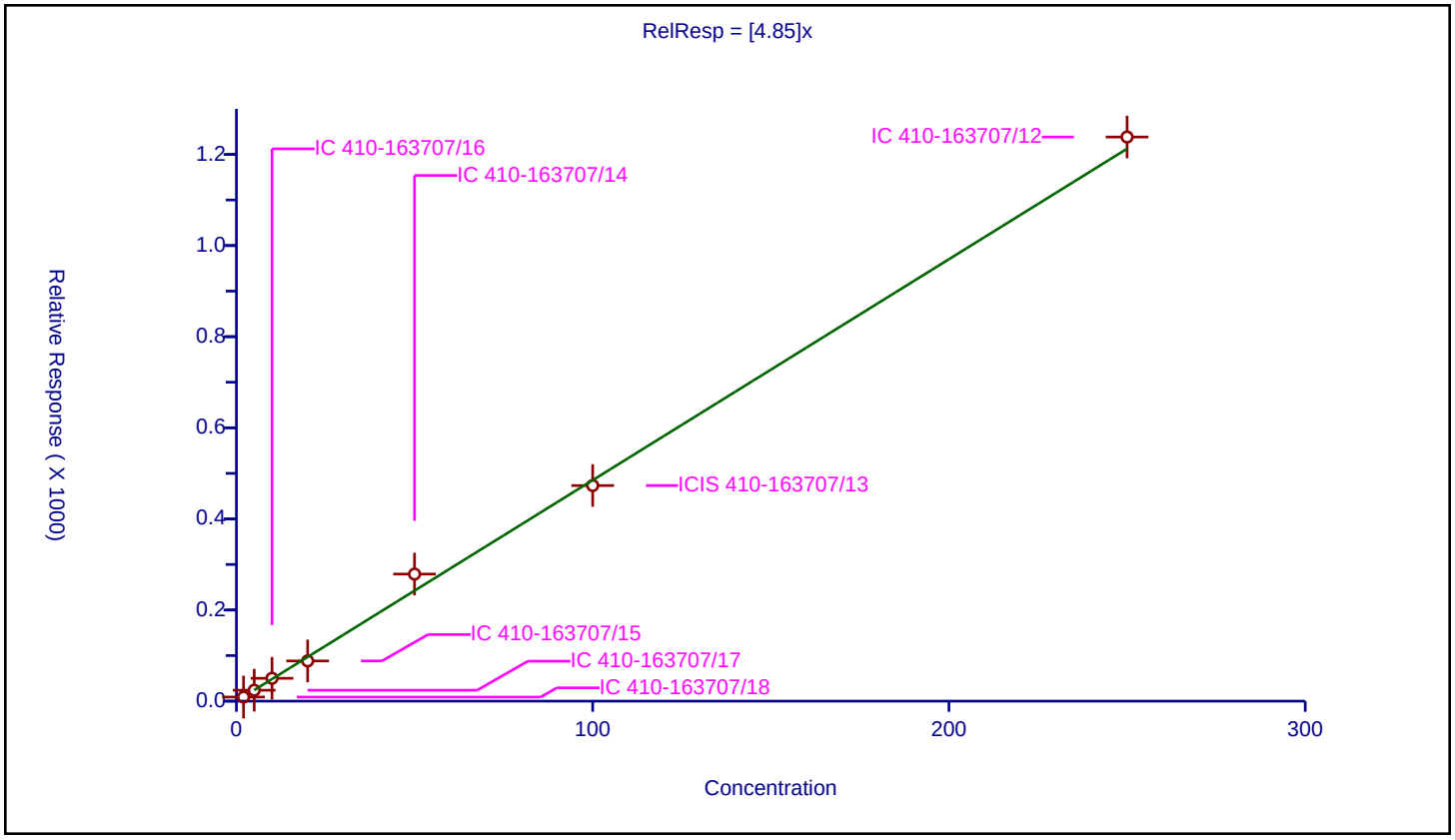
Curve Coefficients

Intercept:	0
Slope:	4.85

Error Coefficients

Standard Error:	1710000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	2.0	8.945489	50.0	162132.0	4.472744	Y
2	IC 410-163707/17	5.0	23.937449	50.0	162651.0	4.78749	Y
3	IC 410-163707/16	10.0	50.136633	50.0	143084.0	5.013663	Y
4	IC 410-163707/15	20.0	88.255588	50.0	162903.0	4.412779	Y
5	IC 410-163707/14	50.0	278.903483	50.0	134380.0	5.57807	Y
6	ICIS 410-163707/13	100.0	473.240519	50.0	165205.0	4.732405	Y
7	IC 410-163707/12	250.0	1238.250889	50.0	153335.0	4.953004	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

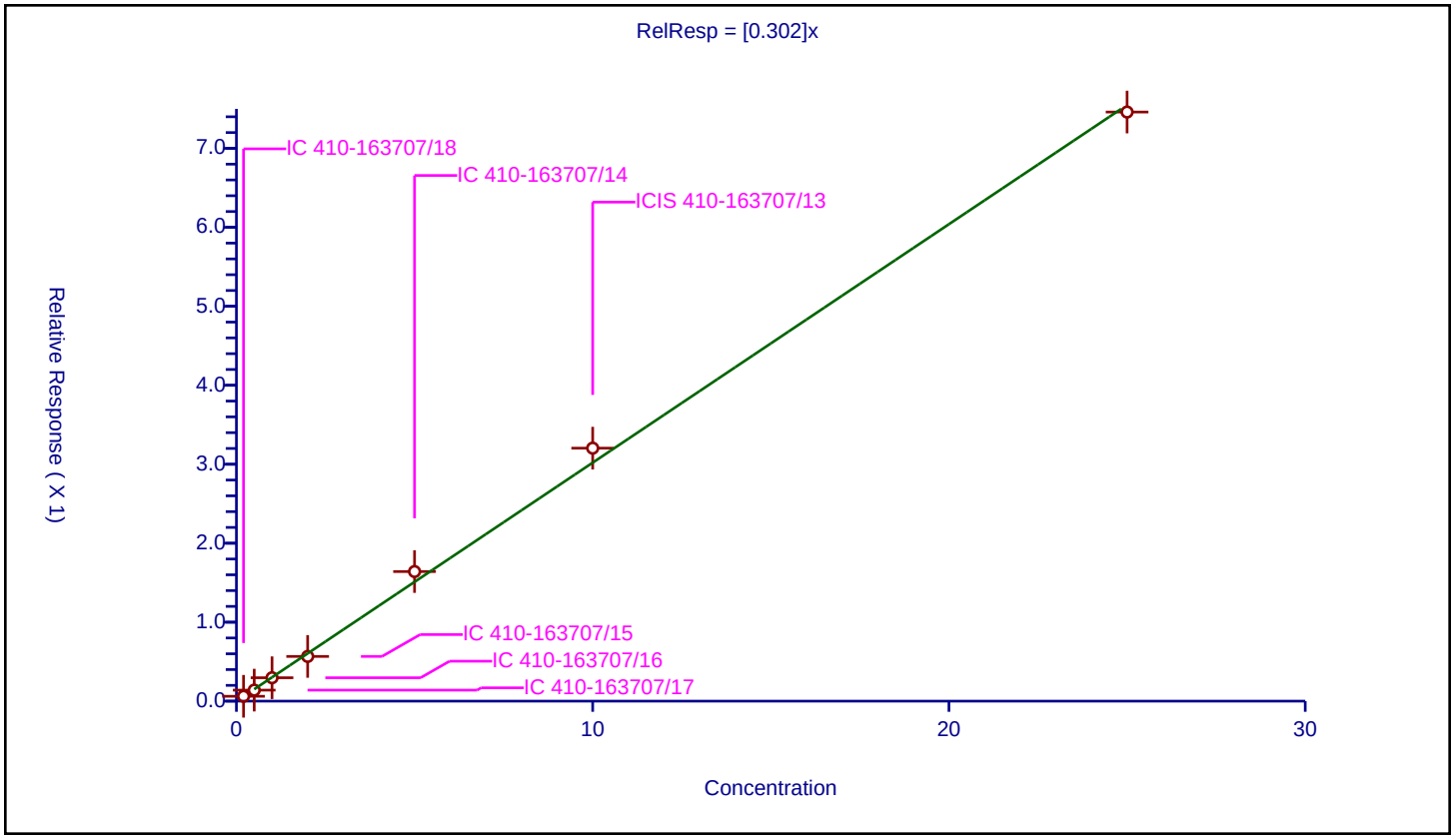
Curve Coefficients

Intercept:	0
Slope:	0.302

Error Coefficients

Standard Error:	773000
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 410-163707/18	0.2	0.06169	10.0	2203428.0	0.308451	Y
2	IC 410-163707/17	0.5	0.139589	10.0	2386508.0	0.279178	Y
3	IC 410-163707/16	1.0	0.296249	10.0	2167768.0	0.296249	Y
4	IC 410-163707/15	2.0	0.566182	10.0	2141536.0	0.283091	Y
5	IC 410-163707/14	5.0	1.641142	10.0	2115642.0	0.328228	Y
6	ICIS 410-163707/13	10.0	3.203581	10.0	2122537.0	0.320358	Y
7	IC 410-163707/12	25.0	7.460186	10.0	2314551.0	0.298407	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

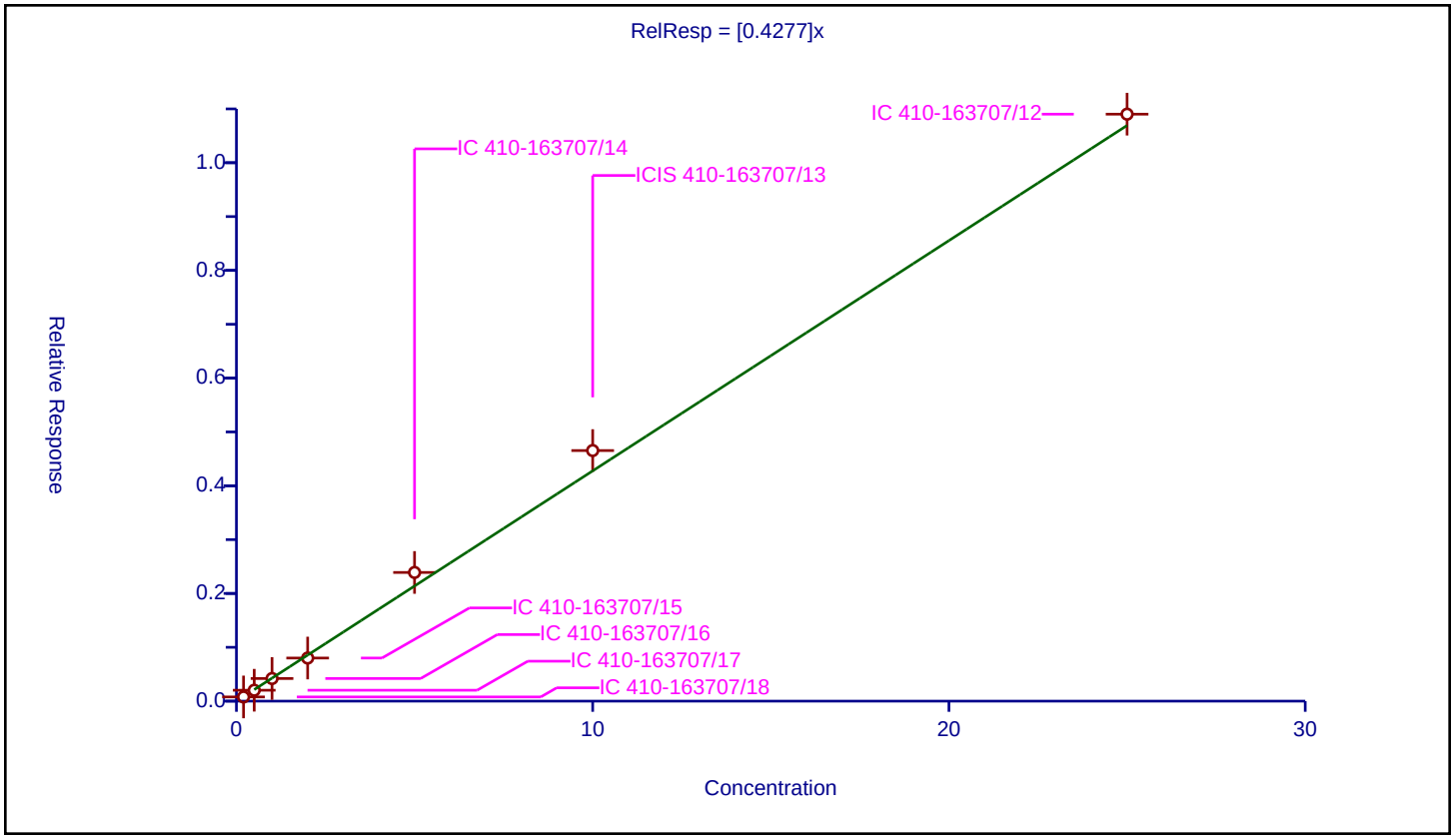
Curve Coefficients

Intercept:	0
Slope:	0.4277

Error Coefficients

Standard Error:	1130000
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 410-163707/18	0.2	0.077783	10.0	2203428.0	0.388917	Y
2	IC 410-163707/17	0.5	0.202513	10.0	2386508.0	0.405027	Y
3	IC 410-163707/16	1.0	0.420253	10.0	2167768.0	0.420253	Y
4	IC 410-163707/15	2.0	0.800411	10.0	2141536.0	0.400206	Y
5	IC 410-163707/14	5.0	2.389884	10.0	2115642.0	0.477977	Y
6	ICIS 410-163707/13	10.0	4.654345	10.0	2122537.0	0.465435	Y
7	IC 410-163707/12	25.0	10.901816	10.0	2314551.0	0.436073	Y



Calibration / Propionitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

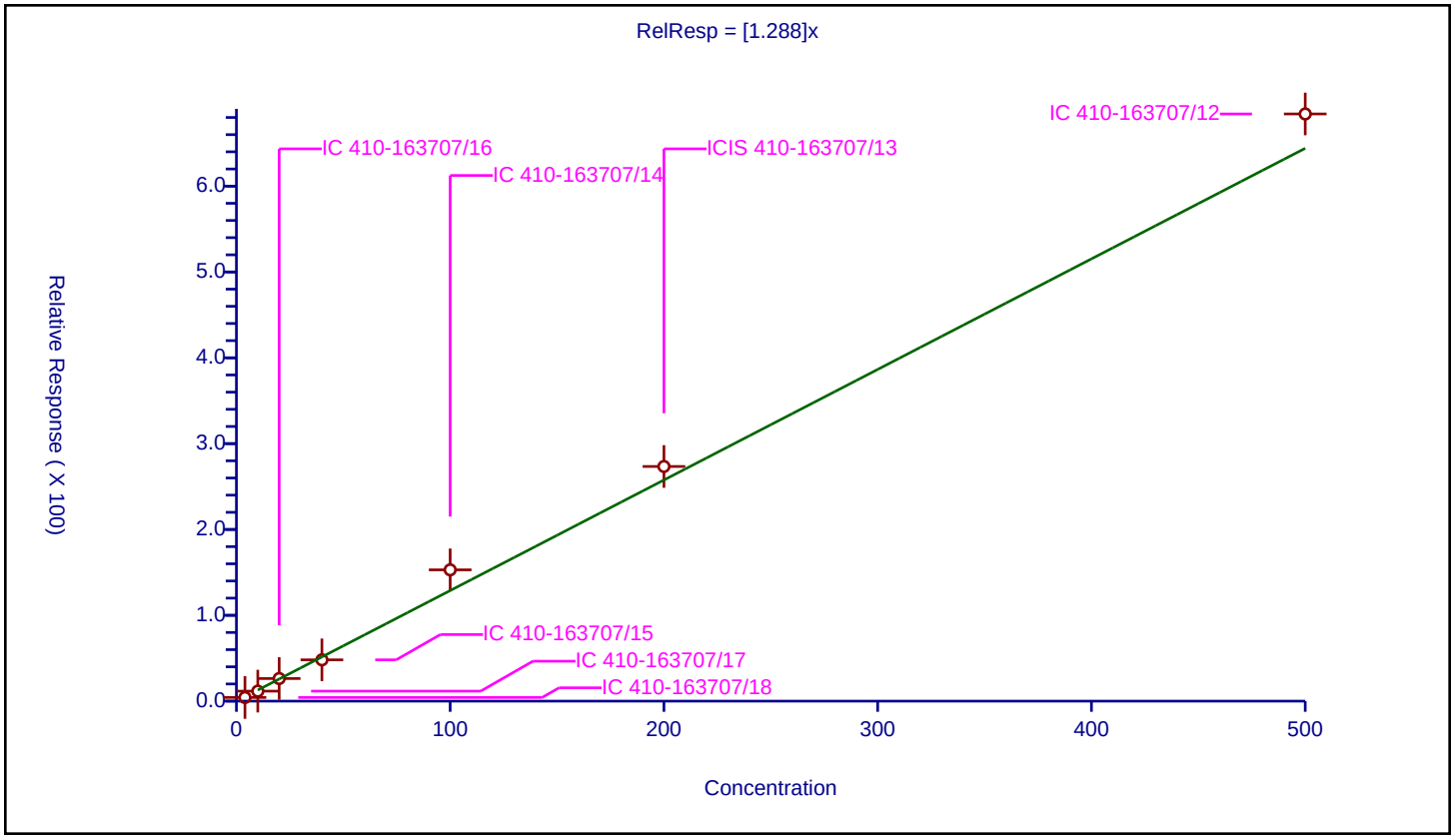
Curve Coefficients

Intercept:	0
Slope:	1.288

Error Coefficients

Standard Error:	950000
Relative Standard Error:	12.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	4.0	4.265968	50.0	162132.0	1.066492	Y
2	IC 410-163707/17	10.0	11.664238	50.0	162651.0	1.166424	Y
3	IC 410-163707/16	20.0	26.336977	50.0	143084.0	1.316849	Y
4	IC 410-163707/15	40.0	48.104086	50.0	162903.0	1.202602	Y
5	IC 410-163707/14	100.0	152.953565	50.0	134380.0	1.529536	Y
6	ICIS 410-163707/13	200.0	273.392754	50.0	165205.0	1.366964	Y
7	IC 410-163707/12	500.0	684.097238	50.0	153335.0	1.368194	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

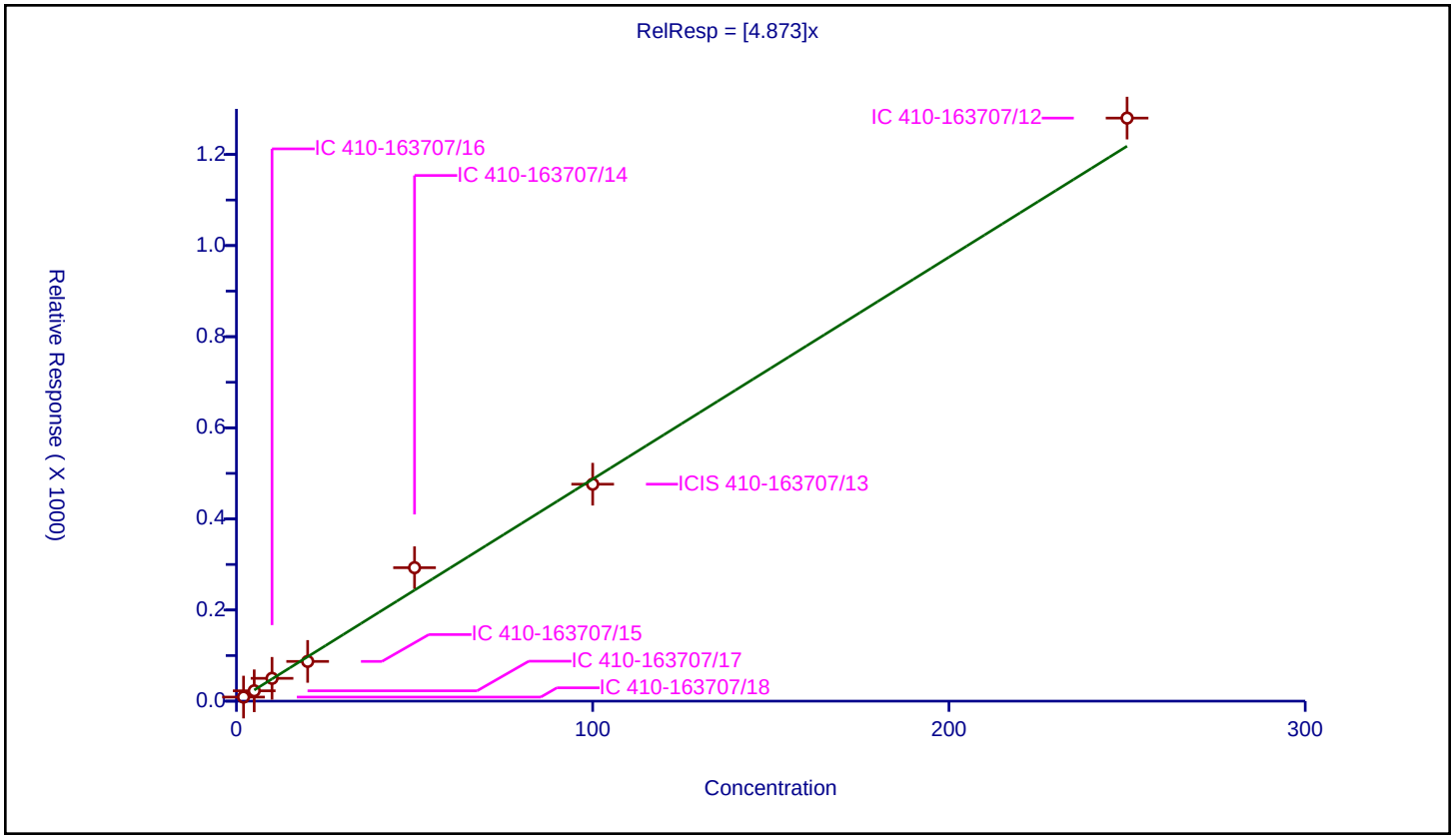
Curve Coefficients

Intercept:	0
Slope:	4.873

Error Coefficients

Standard Error:	1760000
Relative Standard Error:	10.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	2.0	8.92236	50.0	162132.0	4.46118	Y
2	IC 410-163707/17	5.0	22.716737	50.0	162651.0	4.543347	Y
3	IC 410-163707/16	10.0	50.069889	50.0	143084.0	5.006989	Y
4	IC 410-163707/15	20.0	87.182556	50.0	162903.0	4.359128	Y
5	IC 410-163707/14	50.0	292.9331	50.0	134380.0	5.858662	Y
6	ICIS 410-163707/13	100.0	476.205018	50.0	165205.0	4.76205	Y
7	IC 410-163707/12	250.0	1279.855545	50.0	153335.0	5.119422	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

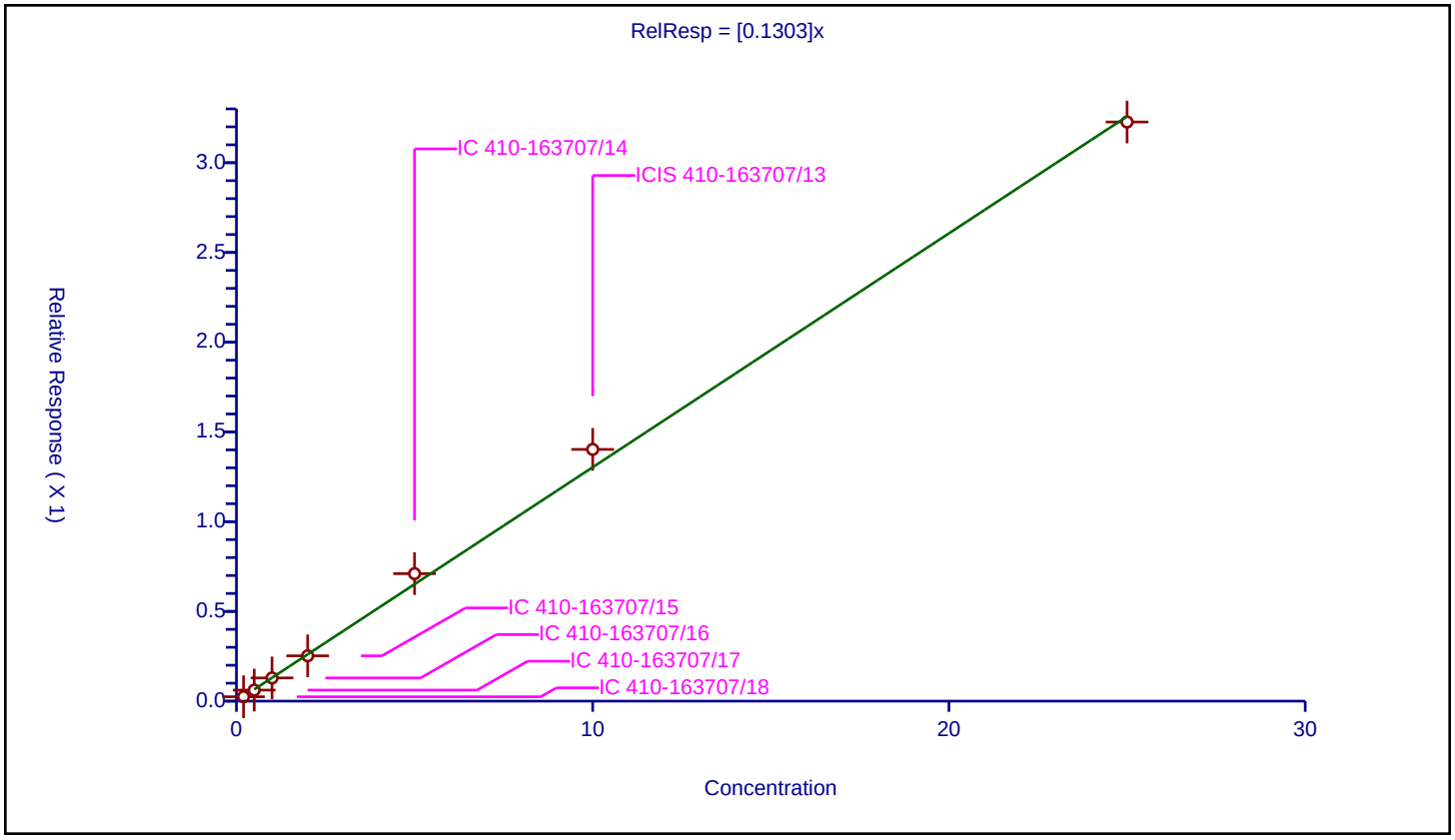
Curve Coefficients

Intercept:	0
Slope:	0.1303

Error Coefficients

Standard Error:	335000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.024426	10.0	2203428.0	0.122128	Y
2	IC 410-163707/17	0.5	0.061538	10.0	2386508.0	0.123075	Y
3	IC 410-163707/16	1.0	0.129391	10.0	2167768.0	0.129391	Y
4	IC 410-163707/15	2.0	0.252473	10.0	2141536.0	0.126236	Y
5	IC 410-163707/14	5.0	0.710352	10.0	2115642.0	0.14207	Y
6	ICIS 410-163707/13	10.0	1.402656	10.0	2122537.0	0.140266	Y
7	IC 410-163707/12	25.0	3.227019	10.0	2314551.0	0.129081	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

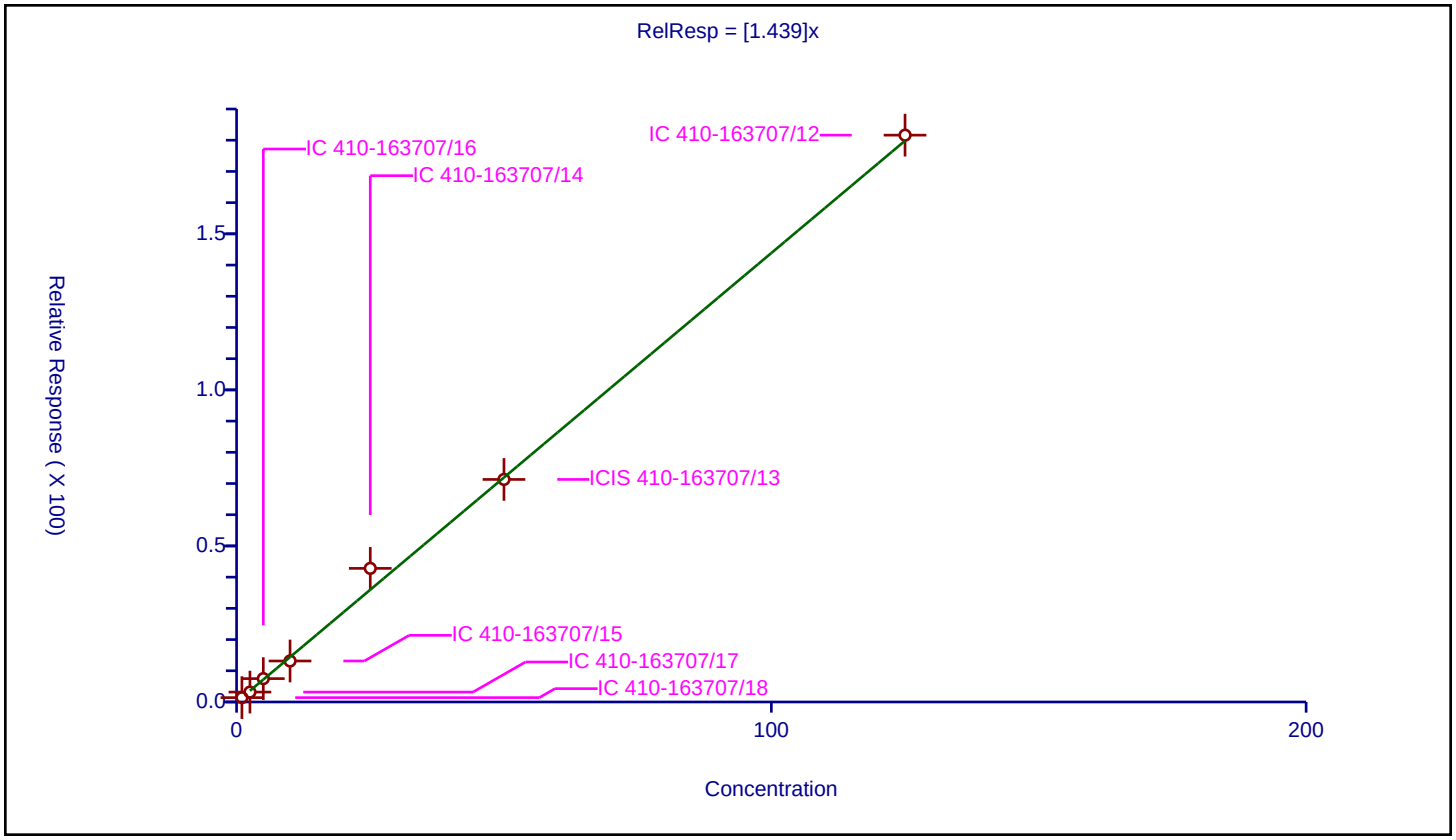
Curve Coefficients

Intercept:	0
Slope:	1.439

Error Coefficients

Standard Error:	252000
Relative Standard Error:	10.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	1.0	1.397318	50.0	162132.0	1.397318	Y
2	IC 410-163707/17	2.5	3.172744	50.0	162651.0	1.269098	Y
3	IC 410-163707/16	5.0	7.491054	50.0	143084.0	1.498211	Y
4	IC 410-163707/15	10.0	13.139107	50.0	162903.0	1.313911	Y
5	IC 410-163707/14	25.0	42.815151	50.0	134380.0	1.712606	Y
6	ICIS 410-163707/13	50.0	71.310796	50.0	165205.0	1.426216	Y
7	IC 410-163707/12	125.0	181.629765	50.0	153335.0	1.453038	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

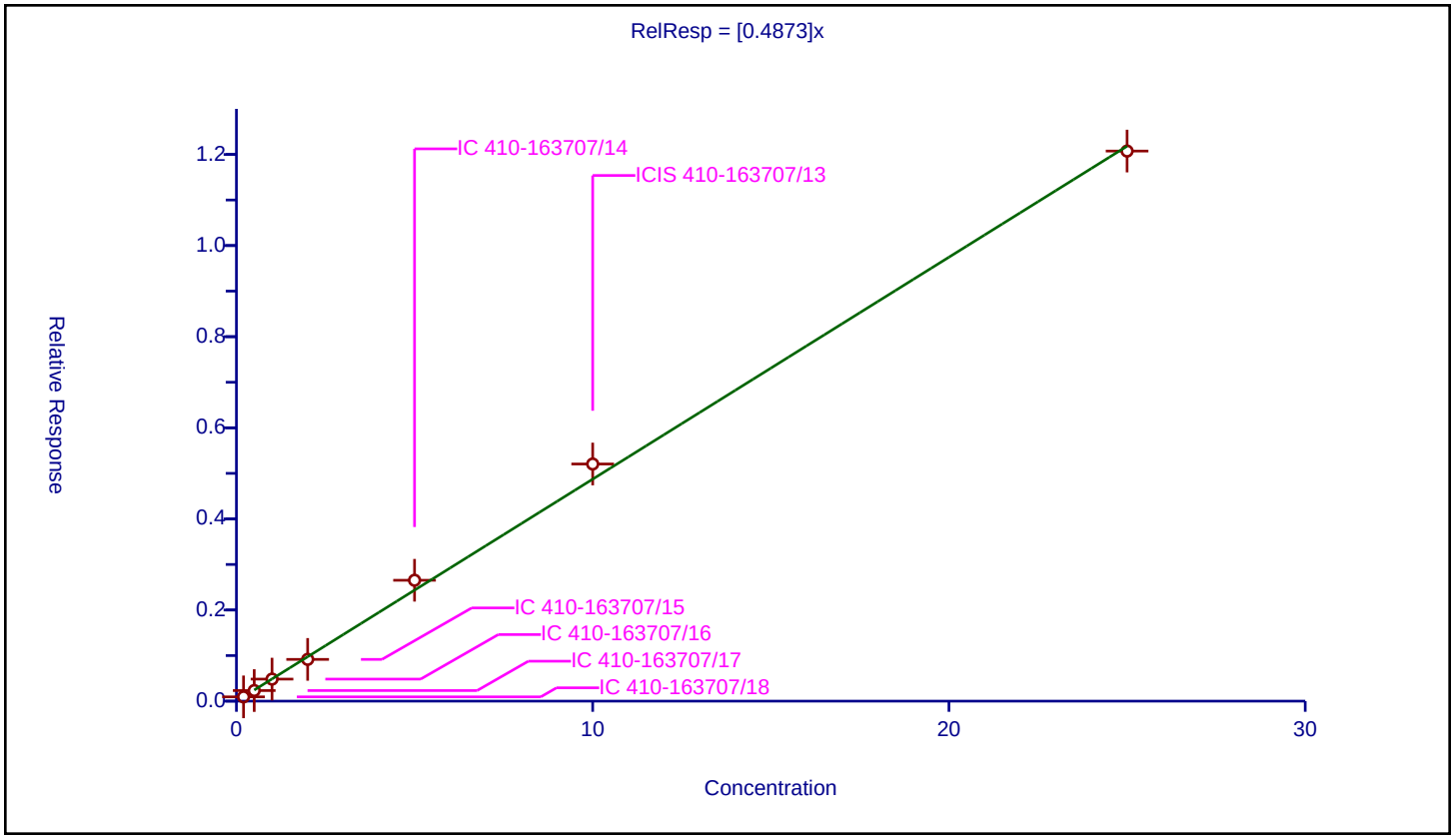
Curve Coefficients

Intercept:	0
Slope:	0.4873

Error Coefficients

Standard Error:	1250000
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 410-163707/18	0.2	0.09384	10.0	2203428.0	0.469201	Y
2	IC 410-163707/17	0.5	0.232612	10.0	2386508.0	0.465224	Y
3	IC 410-163707/16	1.0	0.48406	10.0	2167768.0	0.48406	Y
4	IC 410-163707/15	2.0	0.91637	10.0	2141536.0	0.458185	Y
5	IC 410-163707/14	5.0	2.653034	10.0	2115642.0	0.530607	Y
6	ICIS 410-163707/13	10.0	5.20496	10.0	2122537.0	0.520496	Y
7	IC 410-163707/12	25.0	12.074502	10.0	2314551.0	0.48298	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

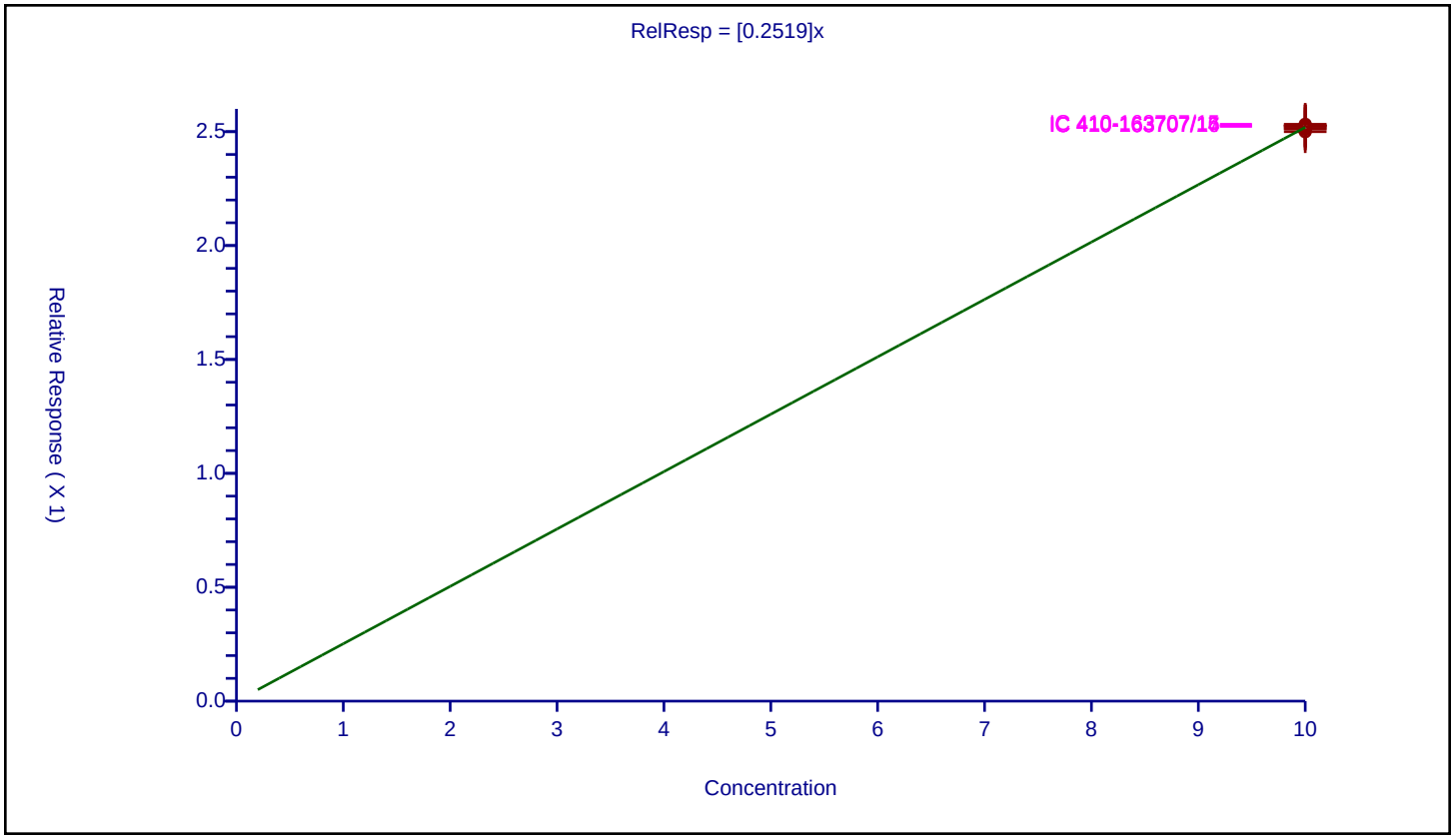
Curve Coefficients

Intercept:	0
Slope:	0.2519

Error Coefficients

Standard Error:	601000
Relative Standard Error:	0.4
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/12	10.0	2.514673	10.0	2314551.0	0.251467	Y
2	ICIS 410-163707/13	10.0	2.511452	10.0	2122537.0	0.251145	Y
3	IC 410-163707/14	10.0	2.523806	10.0	2115642.0	0.252381	Y
4	IC 410-163707/15	10.0	2.53243	10.0	2141536.0	0.253243	Y
5	IC 410-163707/16	10.0	2.525266	10.0	2167768.0	0.252527	Y
6	IC 410-163707/17	10.0	2.526093	10.0	2386508.0	0.252609	Y
7	IC 410-163707/18	10.0	2.499968	10.0	2203428.0	0.249997	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

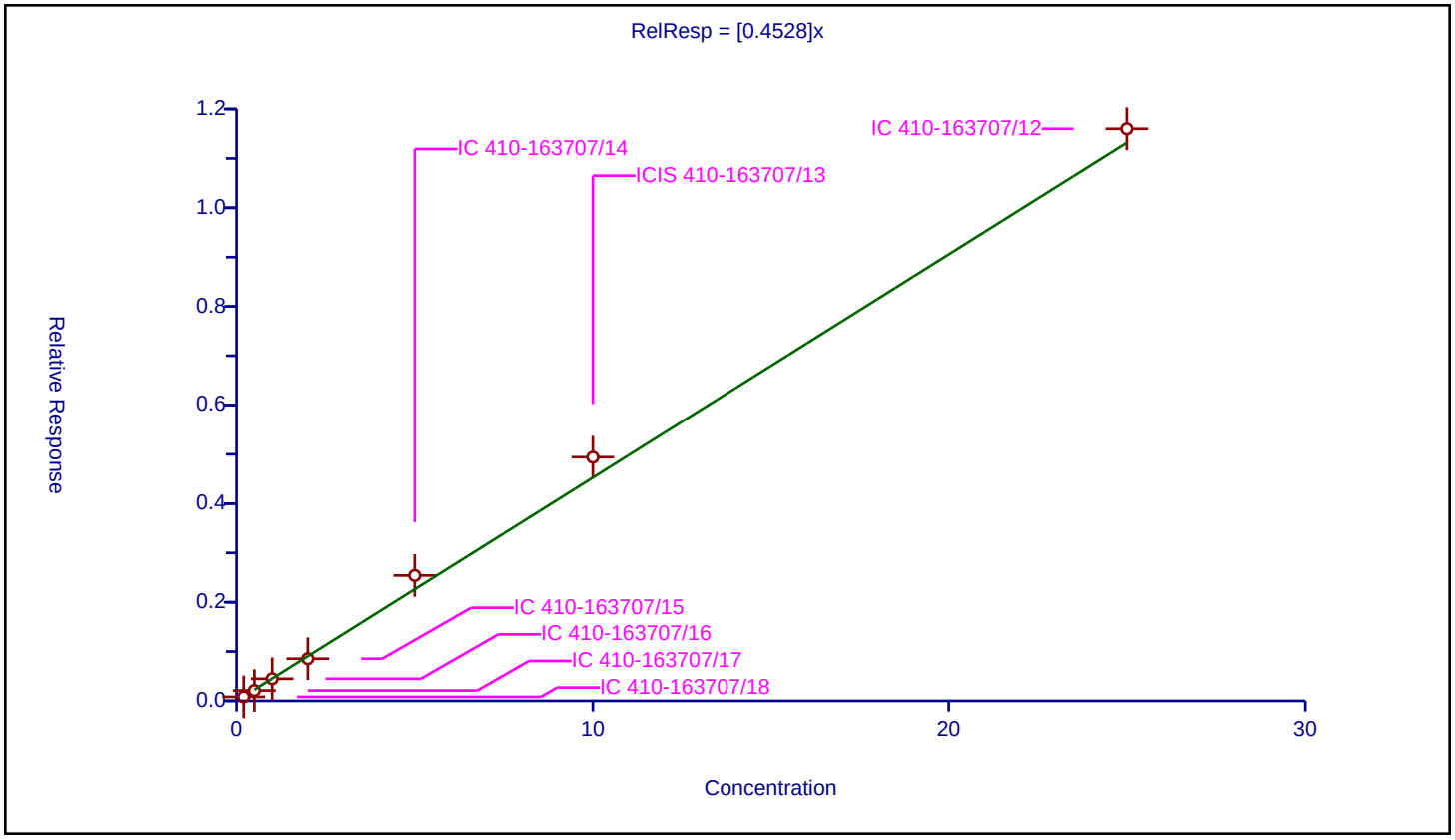
Curve Coefficients

Intercept:	0
Slope:	0.4528

Error Coefficients

Standard Error:	1200000
Relative Standard Error:	8.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.08145	10.0	2203428.0	0.407252	Y
2	IC 410-163707/17	0.5	0.209725	10.0	2386508.0	0.41945	Y
3	IC 410-163707/16	1.0	0.448424	10.0	2167768.0	0.448424	Y
4	IC 410-163707/15	2.0	0.854807	10.0	2141536.0	0.427404	Y
5	IC 410-163707/14	5.0	2.542765	10.0	2115642.0	0.508553	Y
6	ICIS 410-163707/13	10.0	4.942081	10.0	2122537.0	0.494208	Y
7	IC 410-163707/12	25.0	11.60025	10.0	2314551.0	0.46401	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

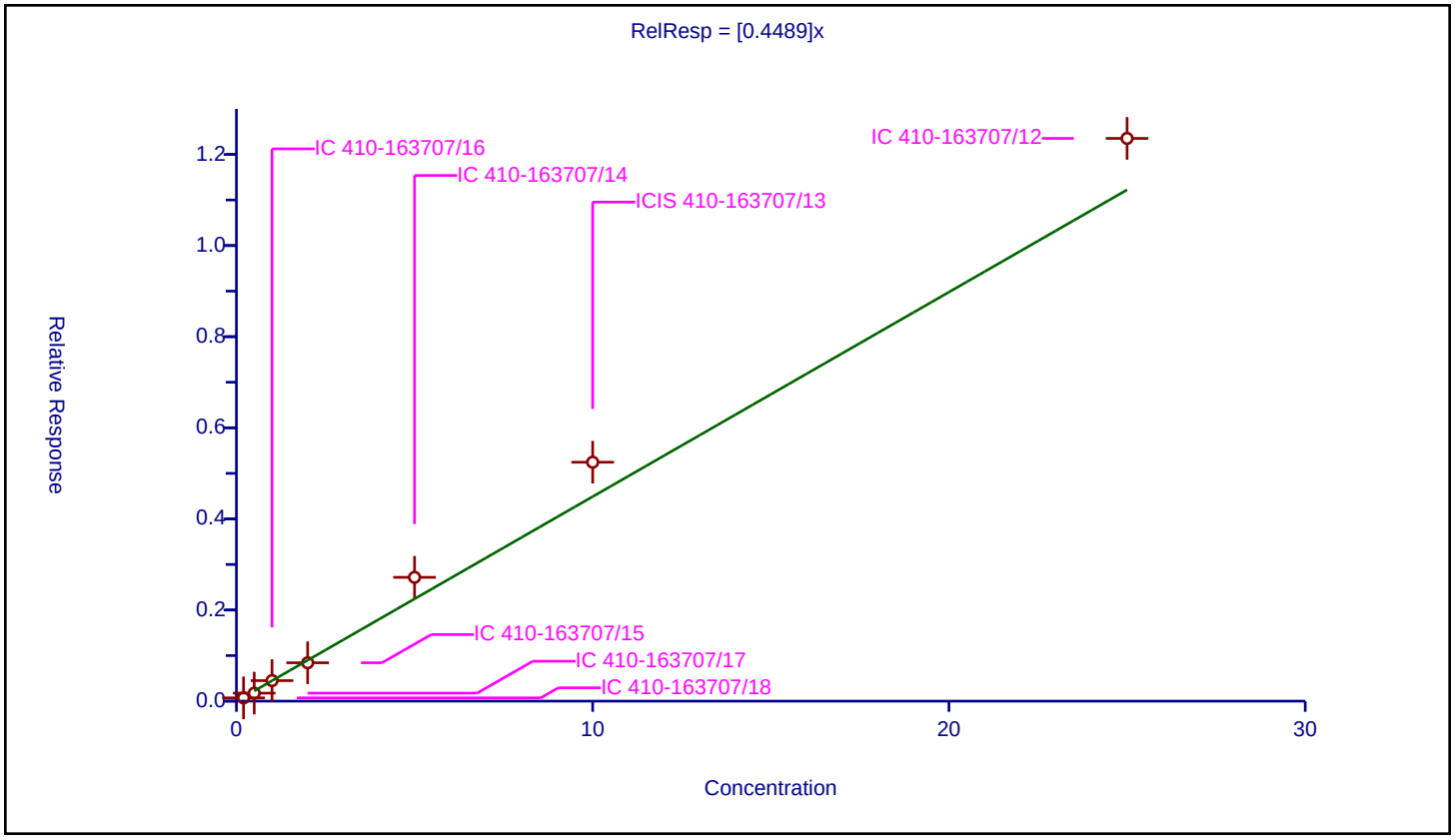
Curve Coefficients

Intercept:	0
Slope:	0.4489

Error Coefficients

Standard Error:	1280000
Relative Standard Error:	17.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.967

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.071407	10.0	2203428.0	0.357035	Y
2	IC 410-163707/17	0.5	0.175918	10.0	2386508.0	0.351836	Y
3	IC 410-163707/16	1.0	0.450588	10.0	2167768.0	0.450588	Y
4	IC 410-163707/15	2.0	0.841984	10.0	2141536.0	0.420992	Y
5	IC 410-163707/14	5.0	2.717676	10.0	2115642.0	0.543535	Y
6	ICIS 410-163707/13	10.0	5.244295	10.0	2122537.0	0.524429	Y
7	IC 410-163707/12	25.0	12.352283	10.0	2314551.0	0.494091	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

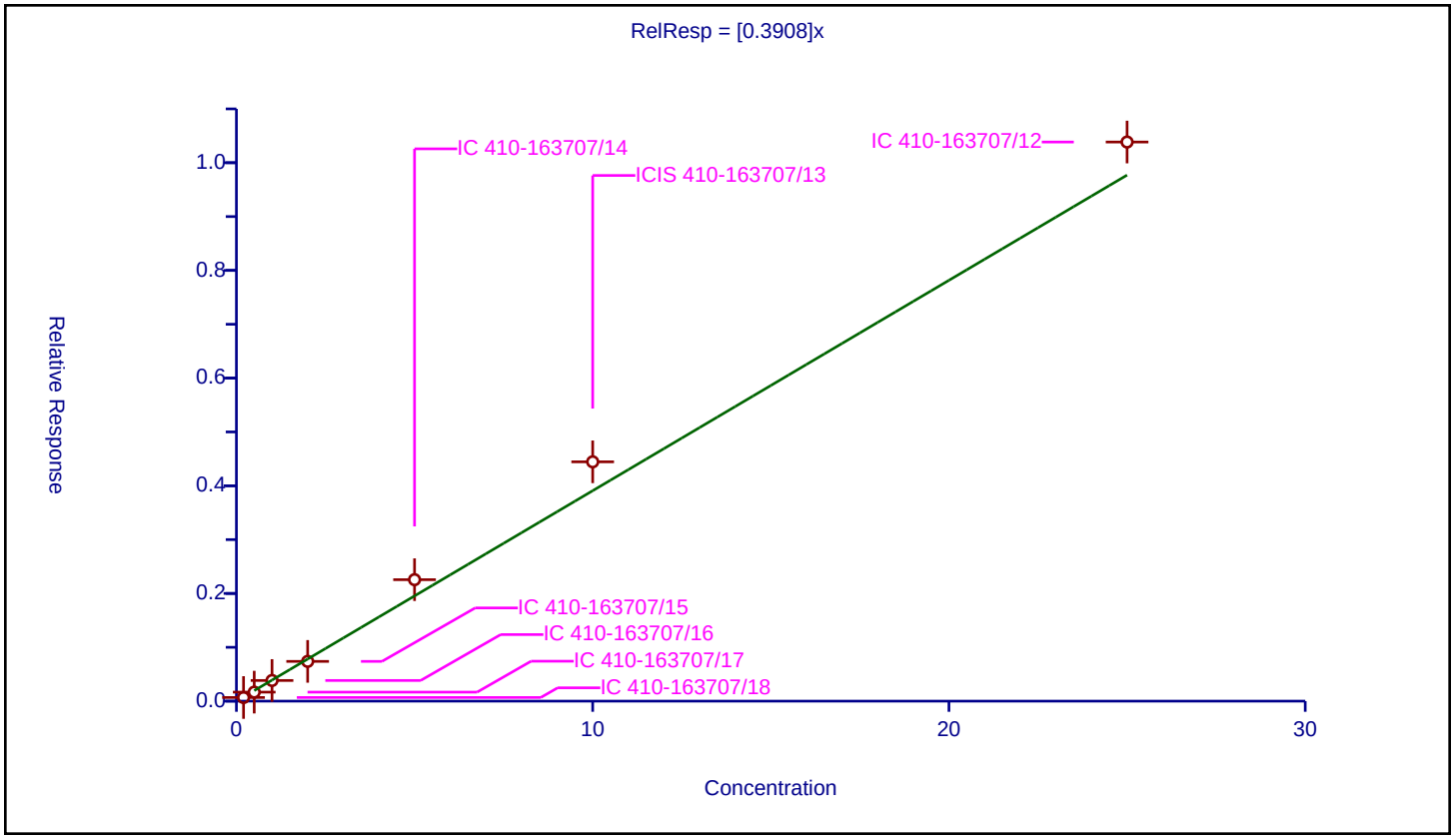
Curve Coefficients

Intercept:	0
Slope:	0.3908

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	12.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.067286	10.0	2203428.0	0.33643	Y
2	IC 410-163707/17	0.5	0.167542	10.0	2386508.0	0.335084	Y
3	IC 410-163707/16	1.0	0.383819	10.0	2167768.0	0.383819	Y
4	IC 410-163707/15	2.0	0.738535	10.0	2141536.0	0.369268	Y
5	IC 410-163707/14	5.0	2.256204	10.0	2115642.0	0.451241	Y
6	ICIS 410-163707/13	10.0	4.445138	10.0	2122537.0	0.444514	Y
7	IC 410-163707/12	25.0	10.384658	10.0	2314551.0	0.415386	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

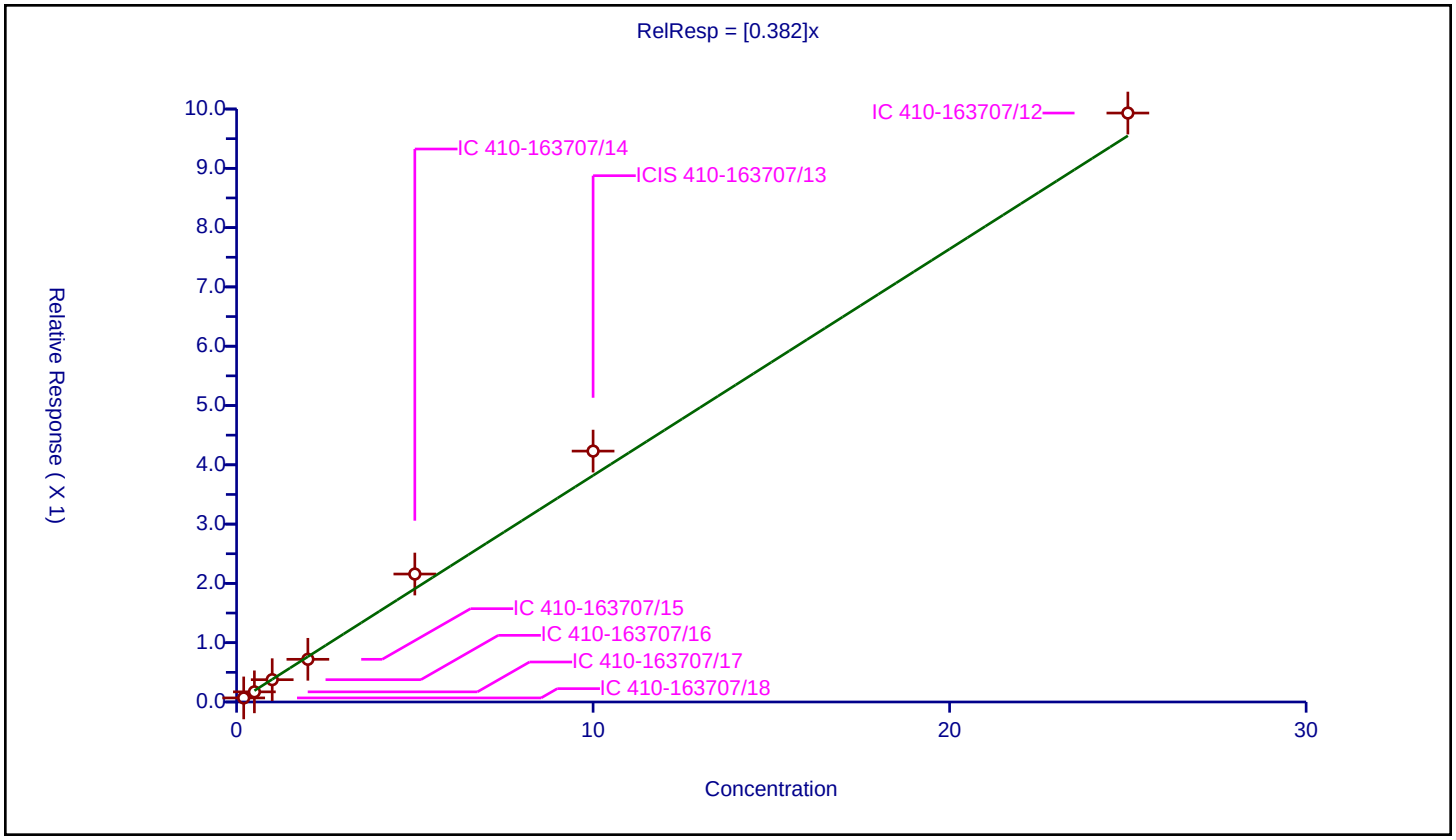
Curve Coefficients

Intercept:	0
Slope:	0.382

Error Coefficients

Standard Error:	1030000
Relative Standard Error:	9.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.068661	10.0	2203428.0	0.343306	Y
2	IC 410-163707/17	0.5	0.171221	10.0	2386508.0	0.342442	Y
3	IC 410-163707/16	1.0	0.376207	10.0	2167768.0	0.376207	Y
4	IC 410-163707/15	2.0	0.719554	10.0	2141536.0	0.359777	Y
5	IC 410-163707/14	5.0	2.158049	10.0	2115642.0	0.43161	Y
6	ICIS 410-163707/13	10.0	4.230894	10.0	2122537.0	0.423089	Y
7	IC 410-163707/12	25.0	9.931926	10.0	2314551.0	0.397277	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

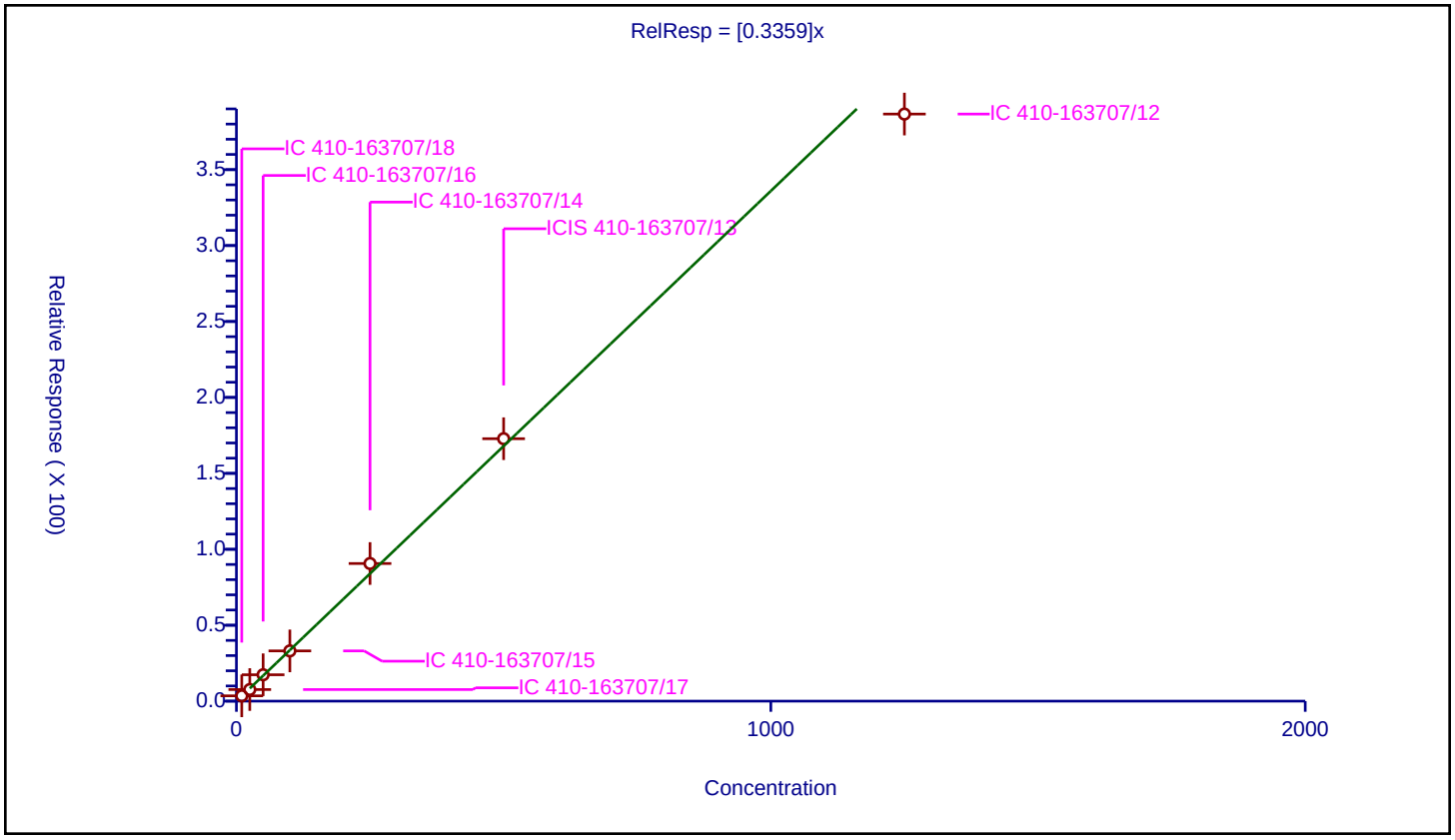
Curve Coefficients

Intercept:	0
Slope:	0.3359

Error Coefficients

Standard Error:	548000
Relative Standard Error:	6.5
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	10.0	3.50486	50.0	162132.0	0.350486	Y
2	IC 410-163707/17	25.0	7.632907	50.0	162651.0	0.305316	Y
3	IC 410-163707/16	50.0	17.380699	50.0	143084.0	0.347614	Y
4	IC 410-163707/15	100.0	33.078581	50.0	162903.0	0.330786	Y
5	IC 410-163707/14	250.0	90.630302	50.0	134380.0	0.362521	Y
6	ICIS 410-163707/13	500.0	172.809237	50.0	165205.0	0.345618	Y
7	IC 410-163707/12	1250.0	386.593733	50.0	153335.0	0.309275	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

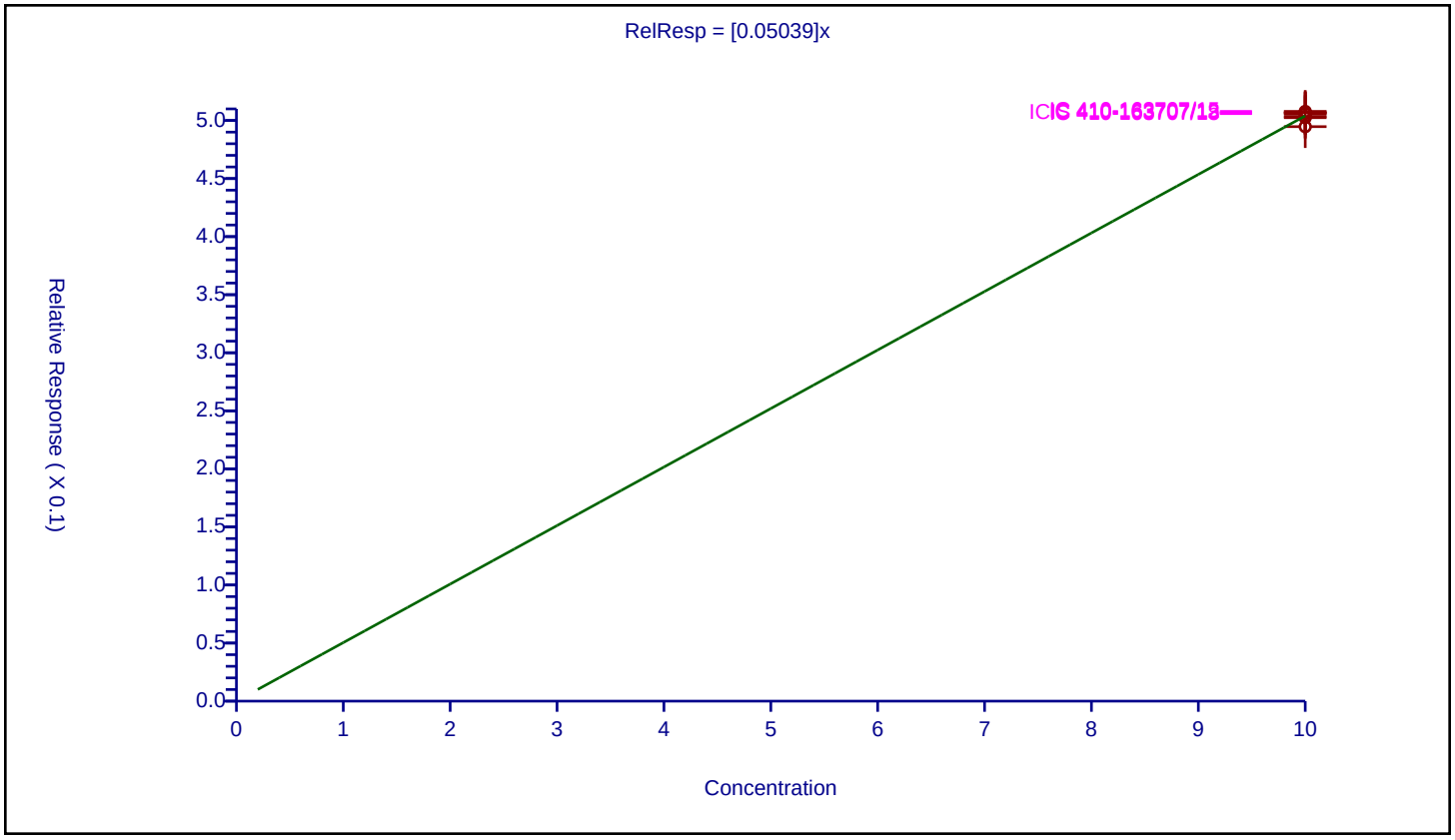
Curve Coefficients

Intercept:	0
Slope:	0.05039

Error Coefficients

Standard Error:	120000
Relative Standard Error:	0.9
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/12	10.0	0.50691	10.0	2314551.0	0.050691	Y
2	ICIS 410-163707/13	10.0	0.5063	10.0	2122537.0	0.05063	Y
3	IC 410-163707/14	10.0	0.503554	10.0	2115642.0	0.050355	Y
4	IC 410-163707/15	10.0	0.507832	10.0	2141536.0	0.050783	Y
5	IC 410-163707/16	10.0	0.502425	10.0	2167768.0	0.050242	Y
6	IC 410-163707/17	10.0	0.494698	10.0	2386508.0	0.04947	Y
7	IC 410-163707/18	10.0	0.505907	10.0	2203428.0	0.050591	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

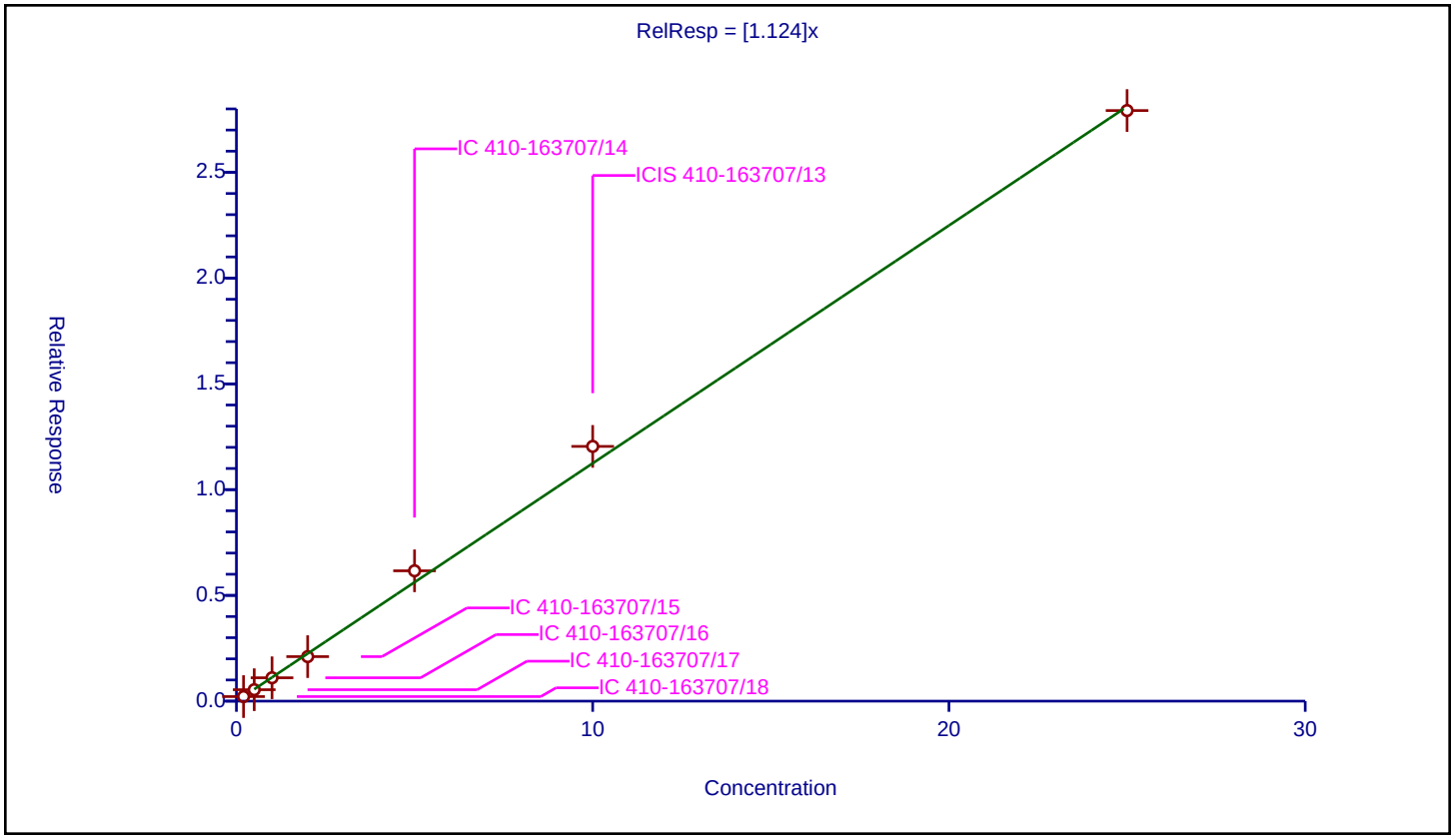
Curve Coefficients

Intercept:	0
Slope:	1.124

Error Coefficients

Standard Error:	2890000
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 410-163707/18	0.2	0.215723	10.0	2203428.0	1.078615	Y
2	IC 410-163707/17	0.5	0.540321	10.0	2386508.0	1.080642	Y
3	IC 410-163707/16	1.0	1.105358	10.0	2167768.0	1.105358	Y
4	IC 410-163707/15	2.0	2.104326	10.0	2141536.0	1.052163	Y
5	IC 410-163707/14	5.0	6.162215	10.0	2115642.0	1.232443	Y
6	ICIS 410-163707/13	10.0	12.042975	10.0	2122537.0	1.204297	Y
7	IC 410-163707/12	25.0	27.921394	10.0	2314551.0	1.116856	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

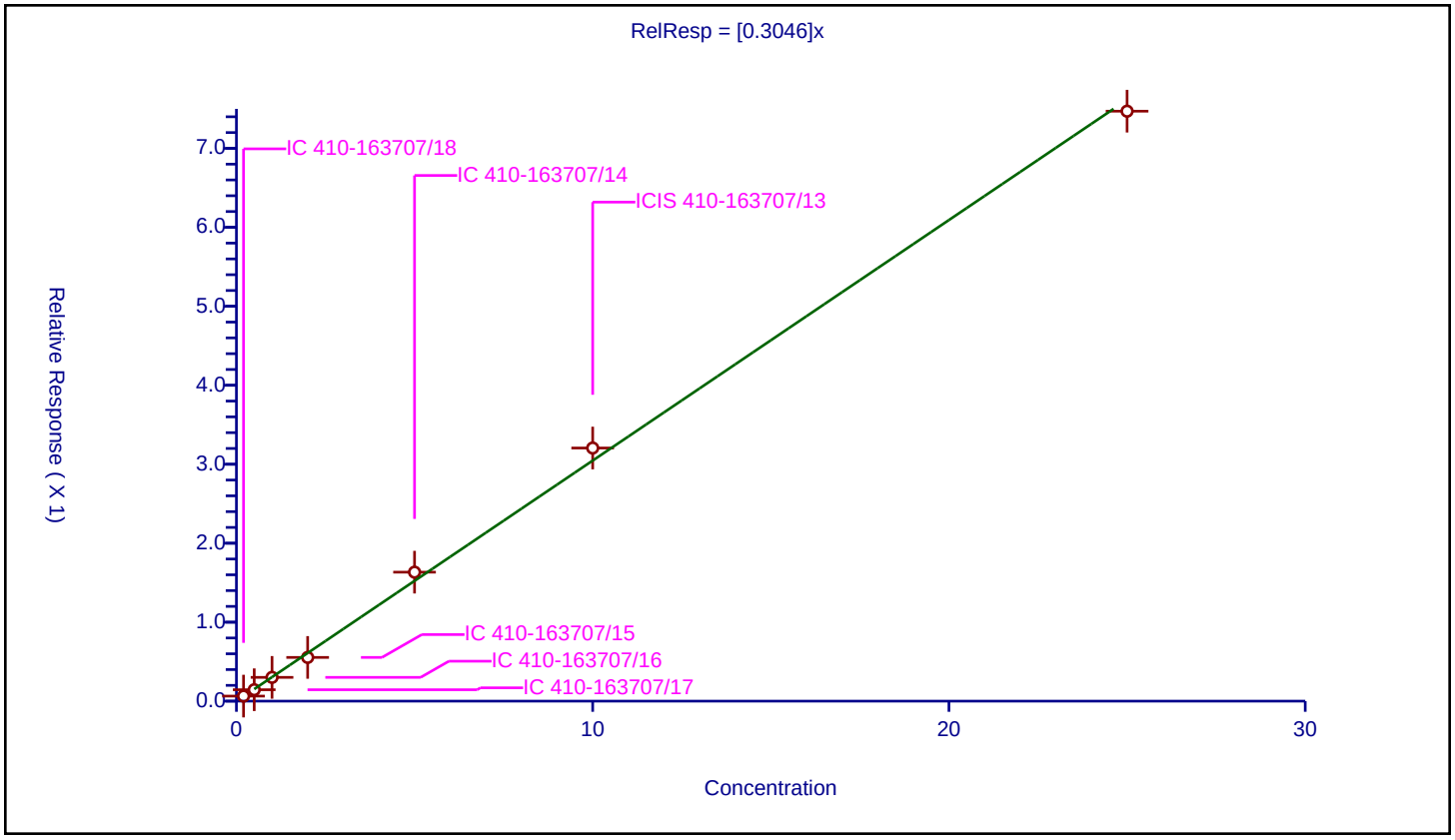
Curve Coefficients

Intercept:	0
Slope:	0.3046

Error Coefficients

Standard Error:	774000
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 410-163707/18	0.2	0.063923	10.0	2203428.0	0.319616	Y
2	IC 410-163707/17	0.5	0.14445	10.0	2386508.0	0.288899	Y
3	IC 410-163707/16	1.0	0.301029	10.0	2167768.0	0.301029	Y
4	IC 410-163707/15	2.0	0.553547	10.0	2141536.0	0.276773	Y
5	IC 410-163707/14	5.0	1.633429	10.0	2115642.0	0.326686	Y
6	ICIS 410-163707/13	10.0	3.205466	10.0	2122537.0	0.320547	Y
7	IC 410-163707/12	25.0	7.47116	10.0	2314551.0	0.298846	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

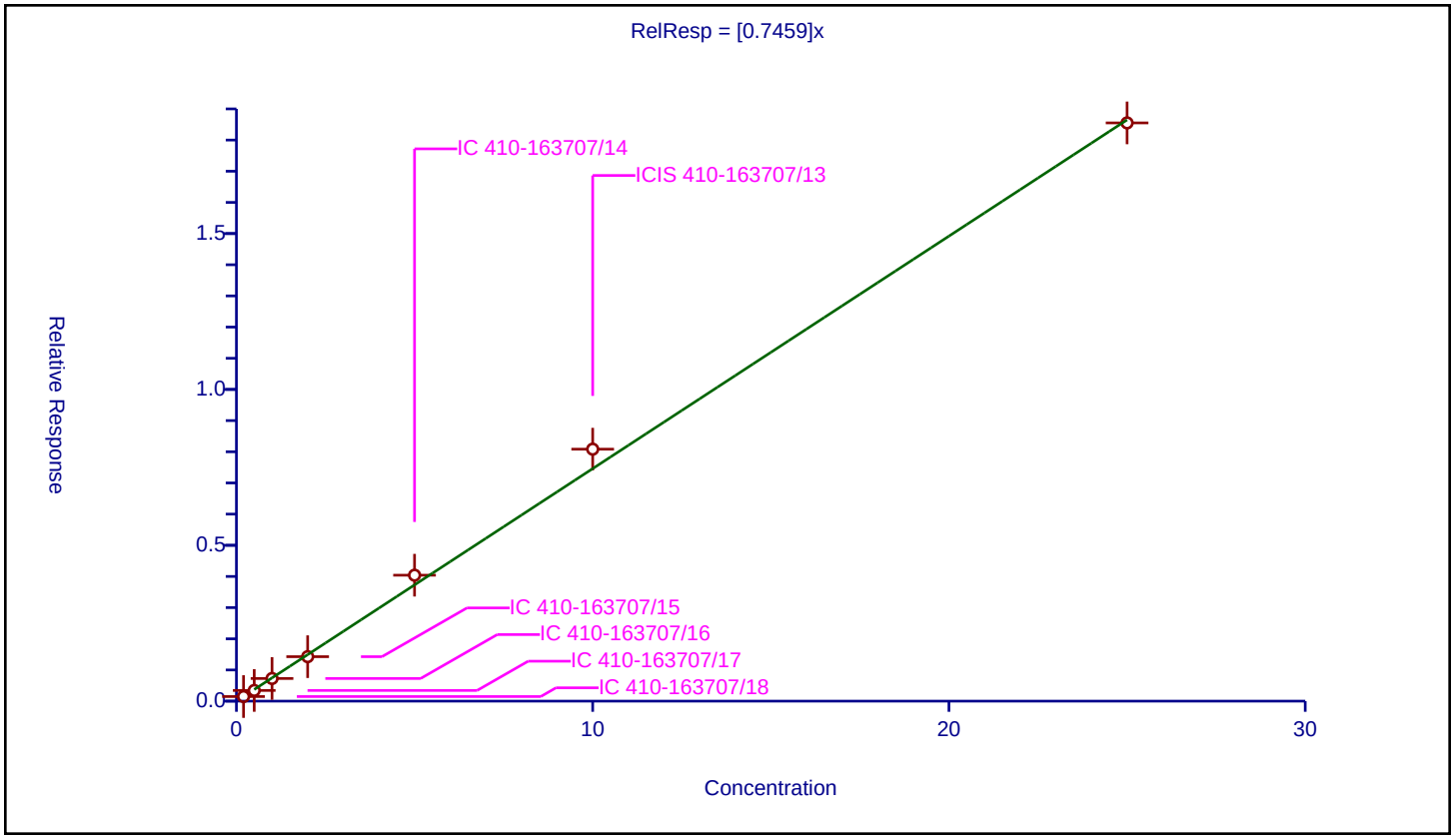
Curve Coefficients

Intercept:	0
Slope:	0.7459

Error Coefficients

Standard Error:	1930000
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 410-163707/18	0.2	0.147466	10.0	2203428.0	0.737328	Y
2	IC 410-163707/17	0.5	0.342668	10.0	2386508.0	0.685336	Y
3	IC 410-163707/16	1.0	0.726904	10.0	2167768.0	0.726904	Y
4	IC 410-163707/15	2.0	1.426901	10.0	2141536.0	0.713451	Y
5	IC 410-163707/14	5.0	4.040556	10.0	2115642.0	0.808111	Y
6	ICIS 410-163707/13	10.0	8.083576	10.0	2122537.0	0.808358	Y
7	IC 410-163707/12	25.0	18.550812	10.0	2314551.0	0.742032	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

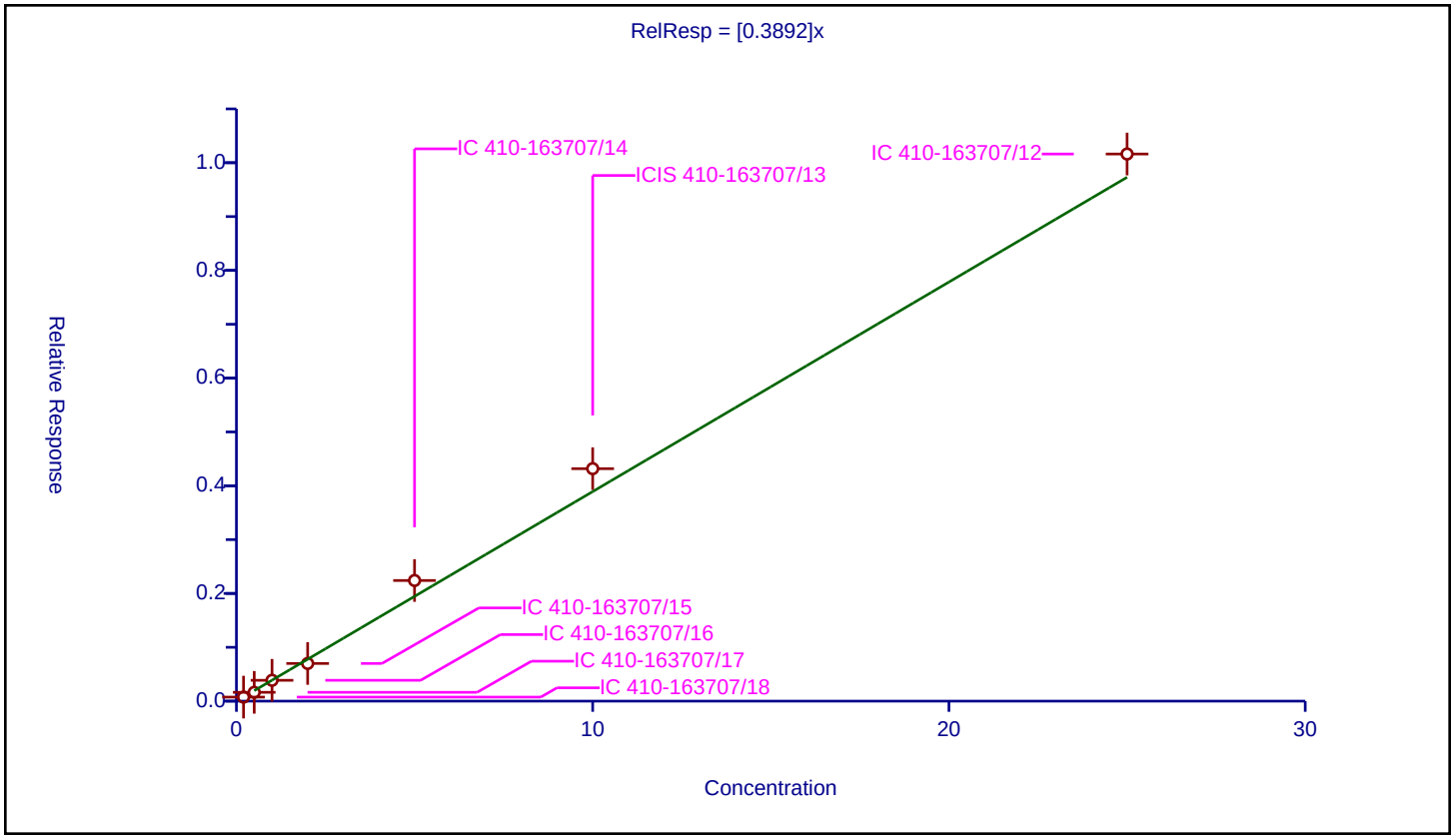
Curve Coefficients

Intercept:	0
Slope:	0.3892

Error Coefficients

Standard Error:	1050000
Relative Standard Error:	11.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.074706	10.0	2203428.0	0.373532	Y
2	IC 410-163707/17	0.5	0.163901	10.0	2386508.0	0.327801	Y
3	IC 410-163707/16	1.0	0.387016	10.0	2167768.0	0.387016	Y
4	IC 410-163707/15	2.0	0.699601	10.0	2141536.0	0.3498	Y
5	IC 410-163707/14	5.0	2.240426	10.0	2115642.0	0.448085	Y
6	ICIS 410-163707/13	10.0	4.317814	10.0	2122537.0	0.431781	Y
7	IC 410-163707/12	25.0	10.162139	10.0	2314551.0	0.406486	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

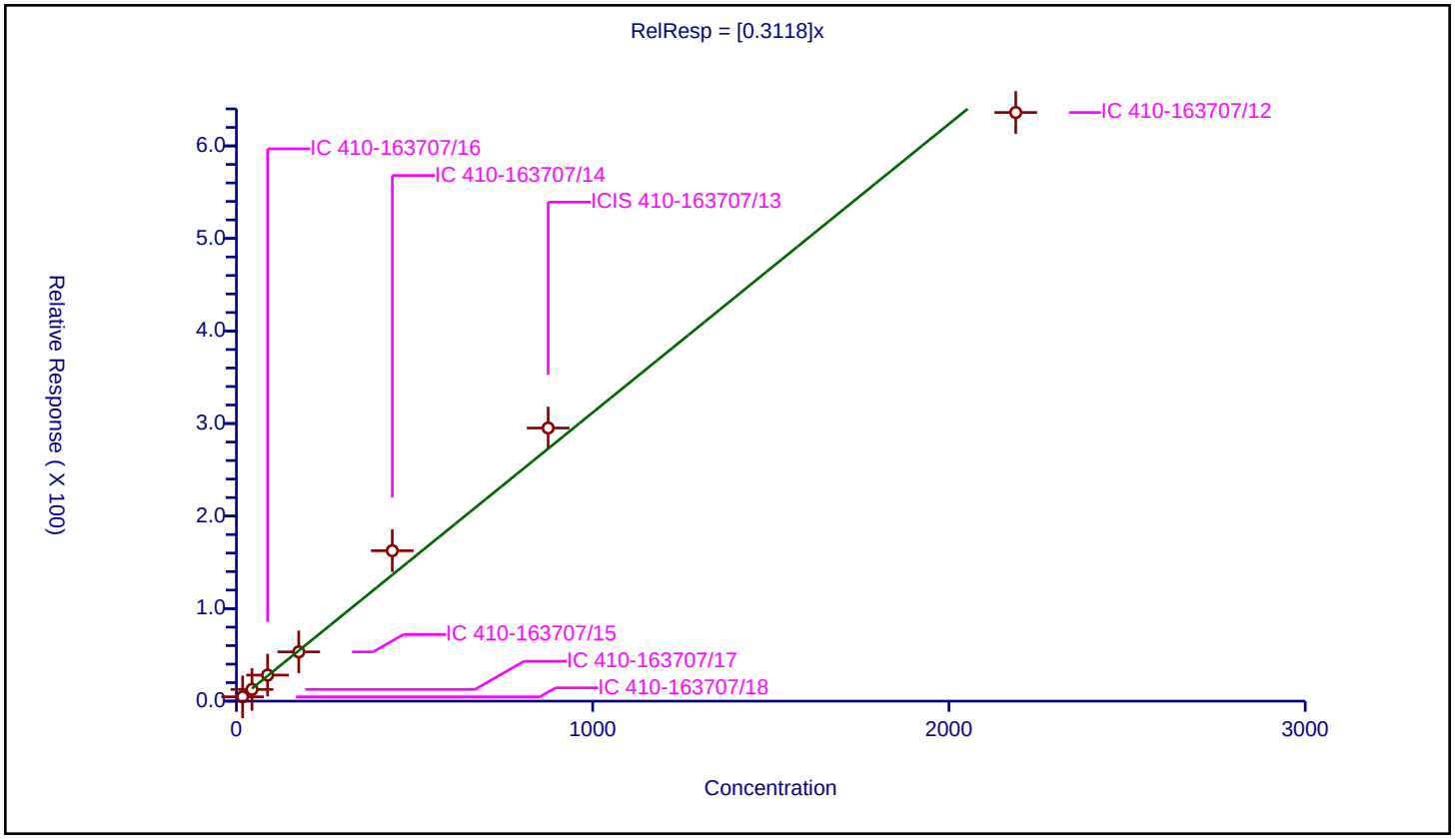
Curve Coefficients

Intercept:	0
Slope:	0.3118

Error Coefficients

Standard Error:	911000
Relative Standard Error:	11.2
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	17.5	4.67582	50.0	162132.0	0.26719	Y
2	IC 410-163707/17	43.75	12.684213	50.0	162651.0	0.289925	Y
3	IC 410-163707/16	87.5	28.164924	50.0	143084.0	0.321885	Y
4	IC 410-163707/15	175.0	53.221856	50.0	162903.0	0.304125	Y
5	IC 410-163707/14	437.5	162.572183	50.0	134380.0	0.371594	Y
6	ICIS 410-163707/13	875.0	295.150873	50.0	165205.0	0.337315	Y
7	IC 410-163707/12	2187.5	636.104281	50.0	153335.0	0.290791	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

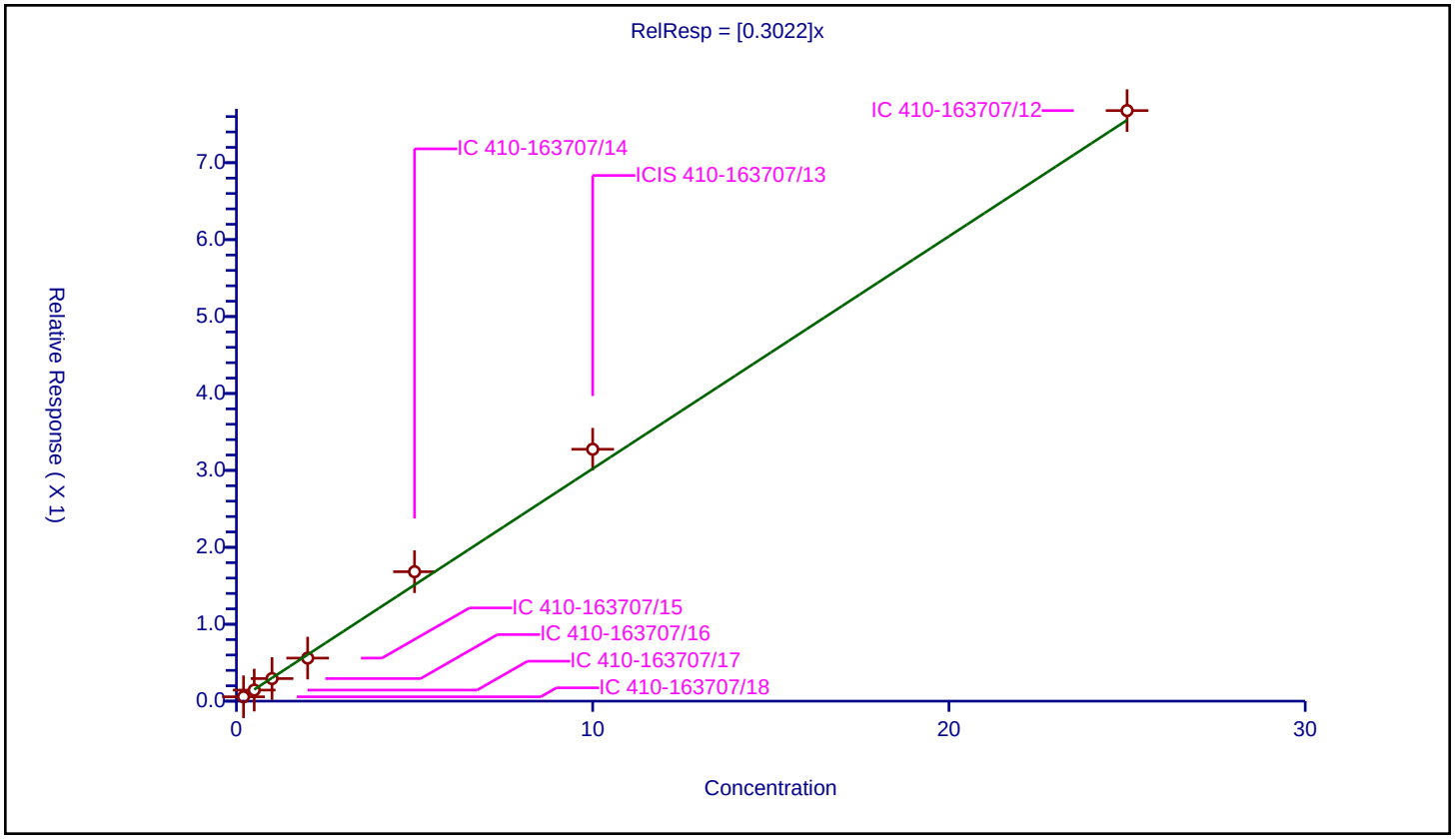
Curve Coefficients

Intercept:	0
Slope:	0.3022

Error Coefficients

Standard Error:	795000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.056603	10.0	2203428.0	0.283014	Y
2	IC 410-163707/17	0.5	0.143846	10.0	2386508.0	0.287692	Y
3	IC 410-163707/16	1.0	0.293472	10.0	2167768.0	0.293472	Y
4	IC 410-163707/15	2.0	0.559785	10.0	2141536.0	0.279893	Y
5	IC 410-163707/14	5.0	1.682723	10.0	2115642.0	0.336545	Y
6	ICIS 410-163707/13	10.0	3.274789	10.0	2122537.0	0.327479	Y
7	IC 410-163707/12	25.0	7.677865	10.0	2314551.0	0.307115	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

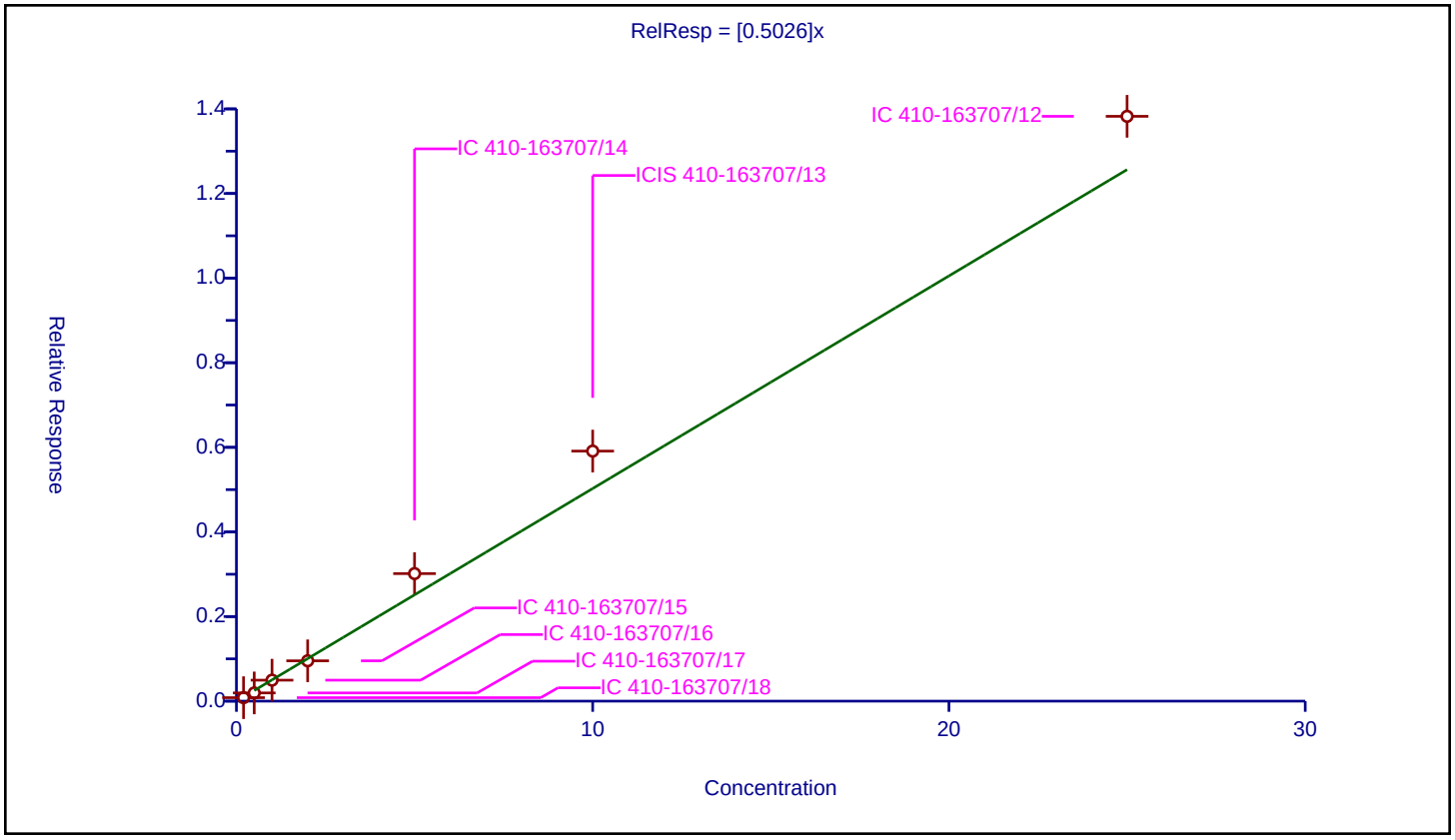
Curve Coefficients

Intercept:	0
Slope:	0.5026

Error Coefficients

Standard Error:	1430000
Relative Standard Error:	16.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.968

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.082081	10.0	2203428.0	0.410406	Y
2	IC 410-163707/17	0.5	0.193986	10.0	2386508.0	0.387973	Y
3	IC 410-163707/16	1.0	0.496036	10.0	2167768.0	0.496036	Y
4	IC 410-163707/15	2.0	0.953227	10.0	2141536.0	0.476614	Y
5	IC 410-163707/14	5.0	3.015052	10.0	2115642.0	0.60301	Y
6	ICIS 410-163707/13	10.0	5.911251	10.0	2122537.0	0.591125	Y
7	IC 410-163707/12	25.0	13.824098	10.0	2314551.0	0.552964	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

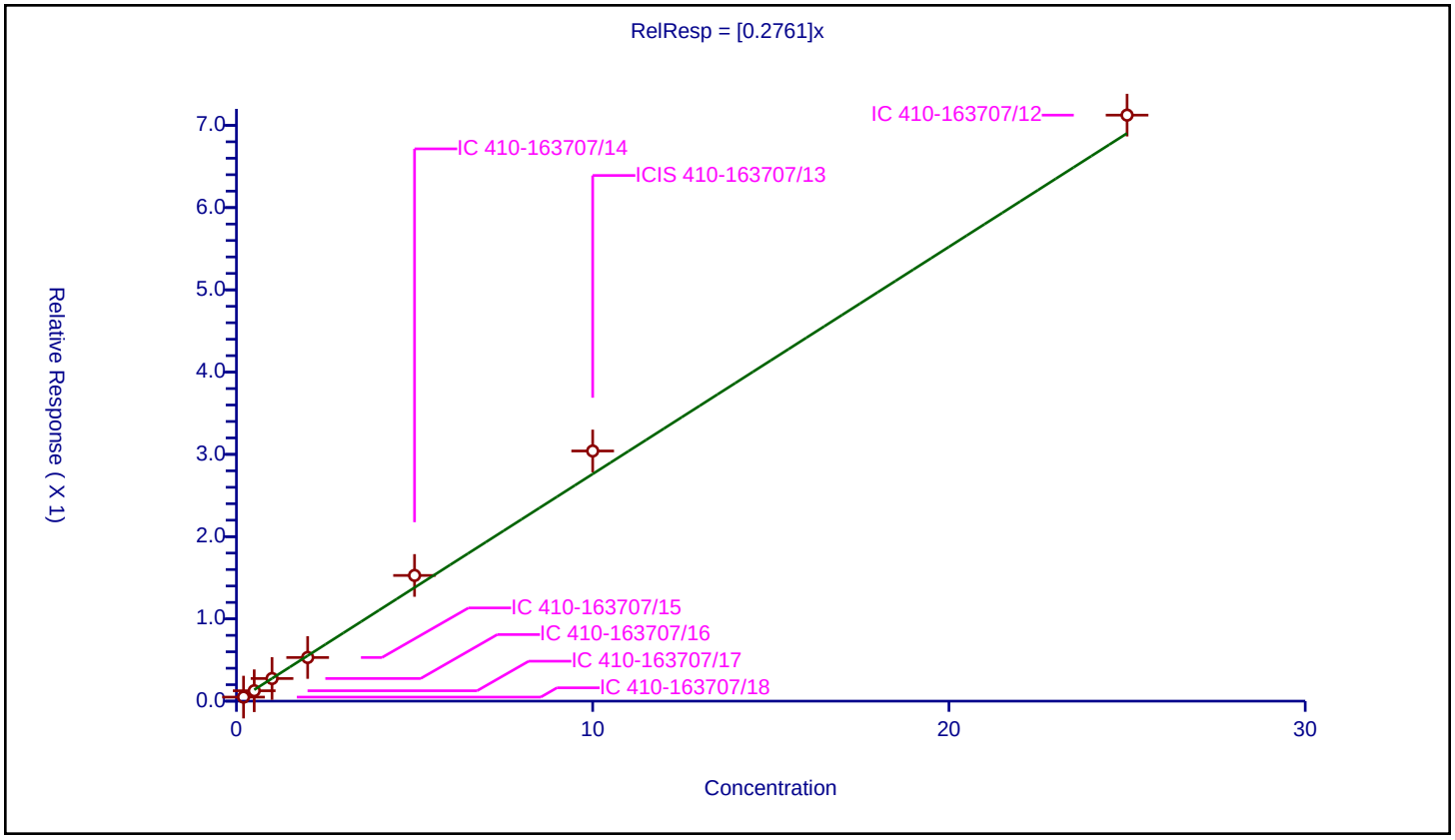
Curve Coefficients

Intercept:	0
Slope:	0.2761

Error Coefficients

Standard Error:	737000
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 410-163707/18	0.2	0.048978	10.0	2203428.0	0.244891	Y
2	IC 410-163707/17	0.5	0.126478	10.0	2386508.0	0.252955	Y
3	IC 410-163707/16	1.0	0.275136	10.0	2167768.0	0.275136	Y
4	IC 410-163707/15	2.0	0.530568	10.0	2141536.0	0.265284	Y
5	IC 410-163707/14	5.0	1.528184	10.0	2115642.0	0.305637	Y
6	ICIS 410-163707/13	10.0	3.041134	10.0	2122537.0	0.304113	Y
7	IC 410-163707/12	25.0	7.124285	10.0	2314551.0	0.284971	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

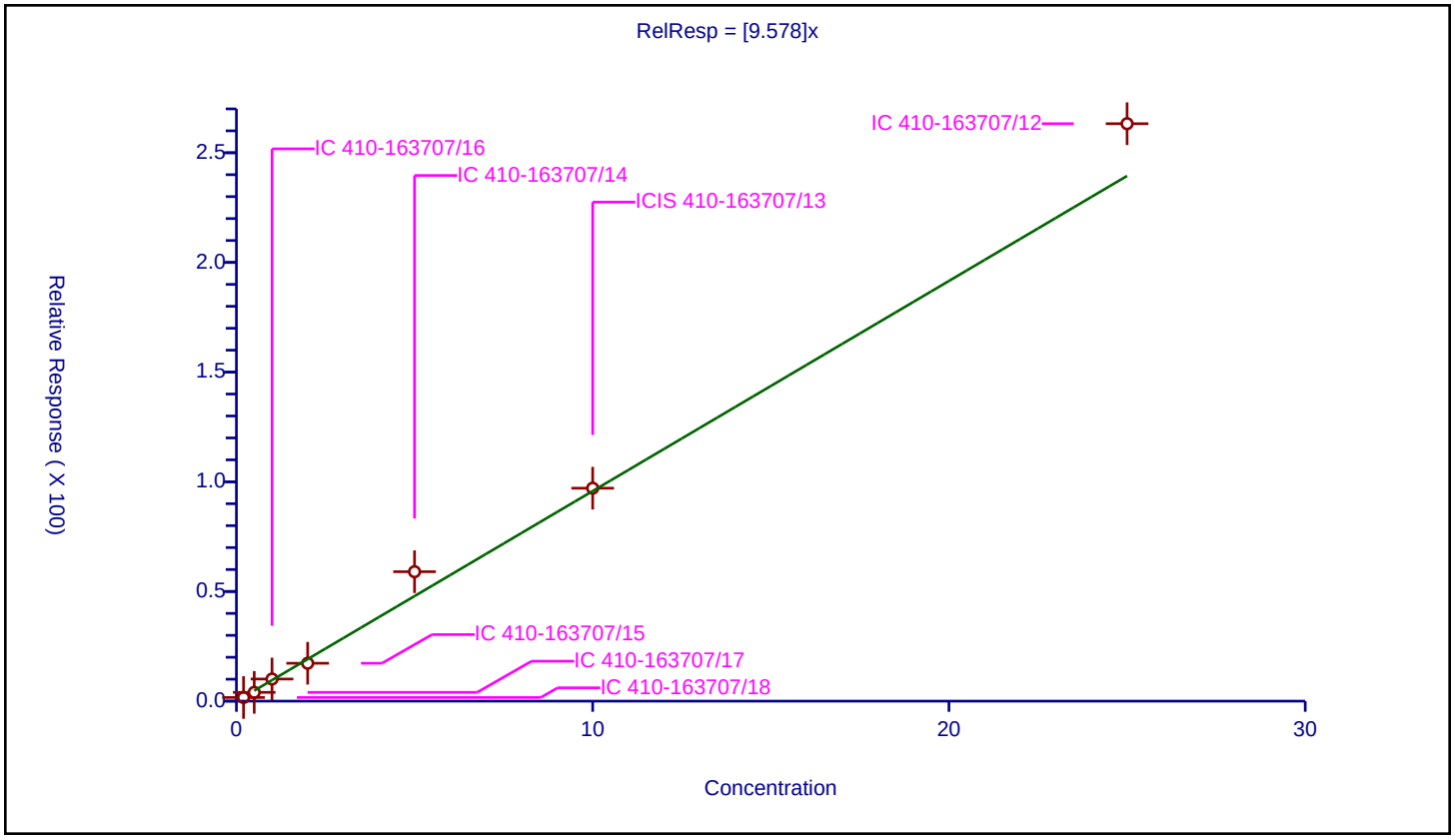
Curve Coefficients

Intercept:	0
Slope:	9.578

Error Coefficients

Standard Error:	361000
Relative Standard Error:	14.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	1.659142	50.0	162132.0	8.29571	Y
2	IC 410-163707/17	0.5	3.995057	50.0	162651.0	7.990114	Y
3	IC 410-163707/16	1.0	10.079743	50.0	143084.0	10.079743	Y
4	IC 410-163707/15	2.0	17.276539	50.0	162903.0	8.638269	Y
5	IC 410-163707/14	5.0	59.010641	50.0	134380.0	11.802128	Y
6	ICIS 410-163707/13	10.0	97.080899	50.0	165205.0	9.70809	Y
7	IC 410-163707/12	25.0	263.253986	50.0	153335.0	10.530159	Y



Calibration / 1,4-Dioxane

Curve Type:	Quadratic
Weighting:	None
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

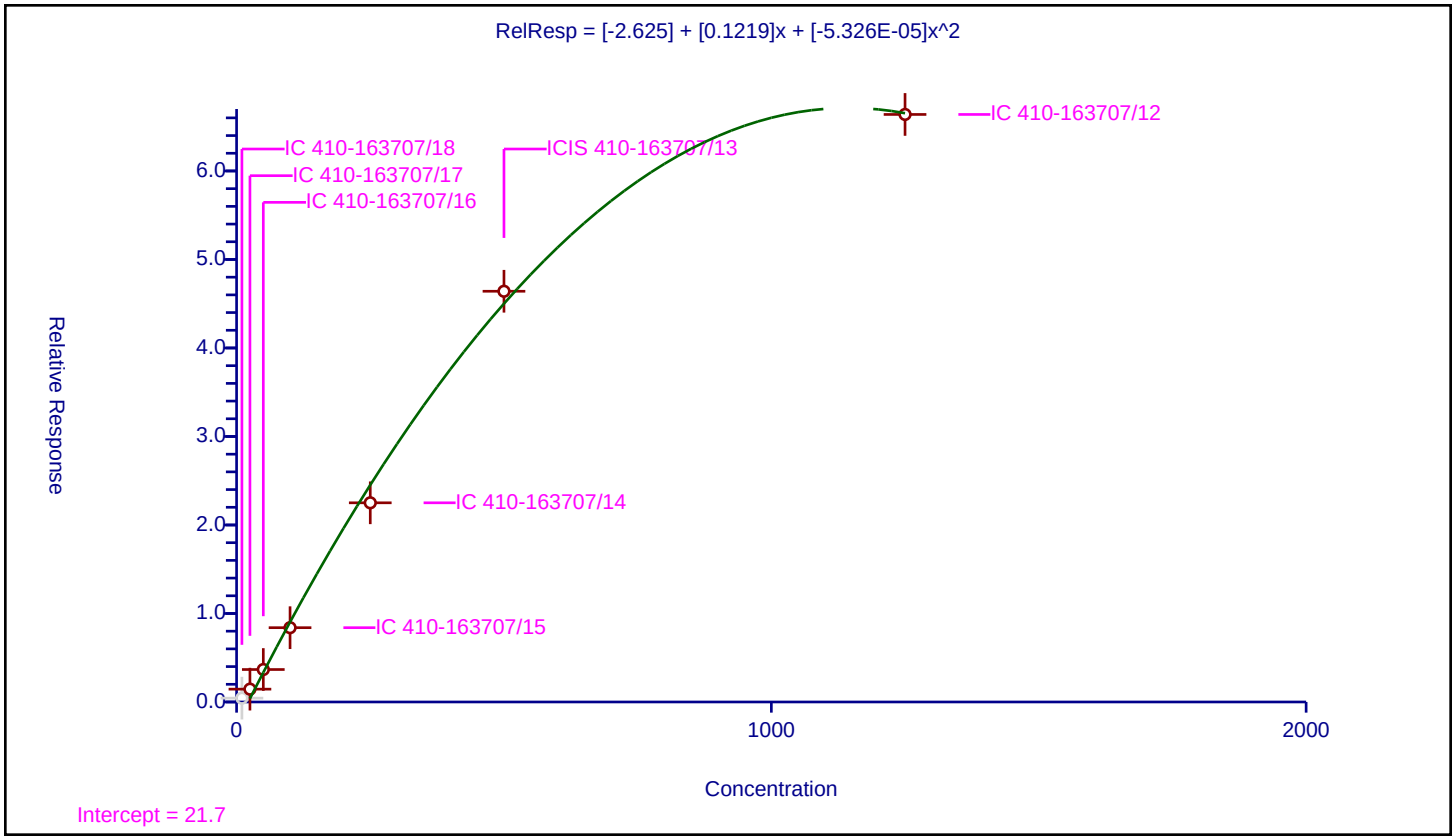
Curve Coefficients

Intercept:	-2.625
Slope:	0.1219
Second Order:	-5.326E-05

Error Coefficients

Standard Error:	152000
Relative Standard Error:	24.1
Correlation Coefficient:	0.987
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	10.0	0.434831	50.0	162132.0	0.043483	N
2	IC 410-163707/17	25.0	1.450959	50.0	162651.0	0.058038	Y
3	IC 410-163707/16	50.0	3.667776	50.0	143084.0	0.073356	Y
4	IC 410-163707/15	100.0	8.397022	50.0	162903.0	0.08397	Y
5	IC 410-163707/14	250.0	22.505209	50.0	134380.0	0.090021	Y
6	ICIS 410-163707/13	500.0	46.407494	50.0	165205.0	0.092815	Y
7	IC 410-163707/12	1250.0	66.38667	50.0	153335.0	0.053109	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

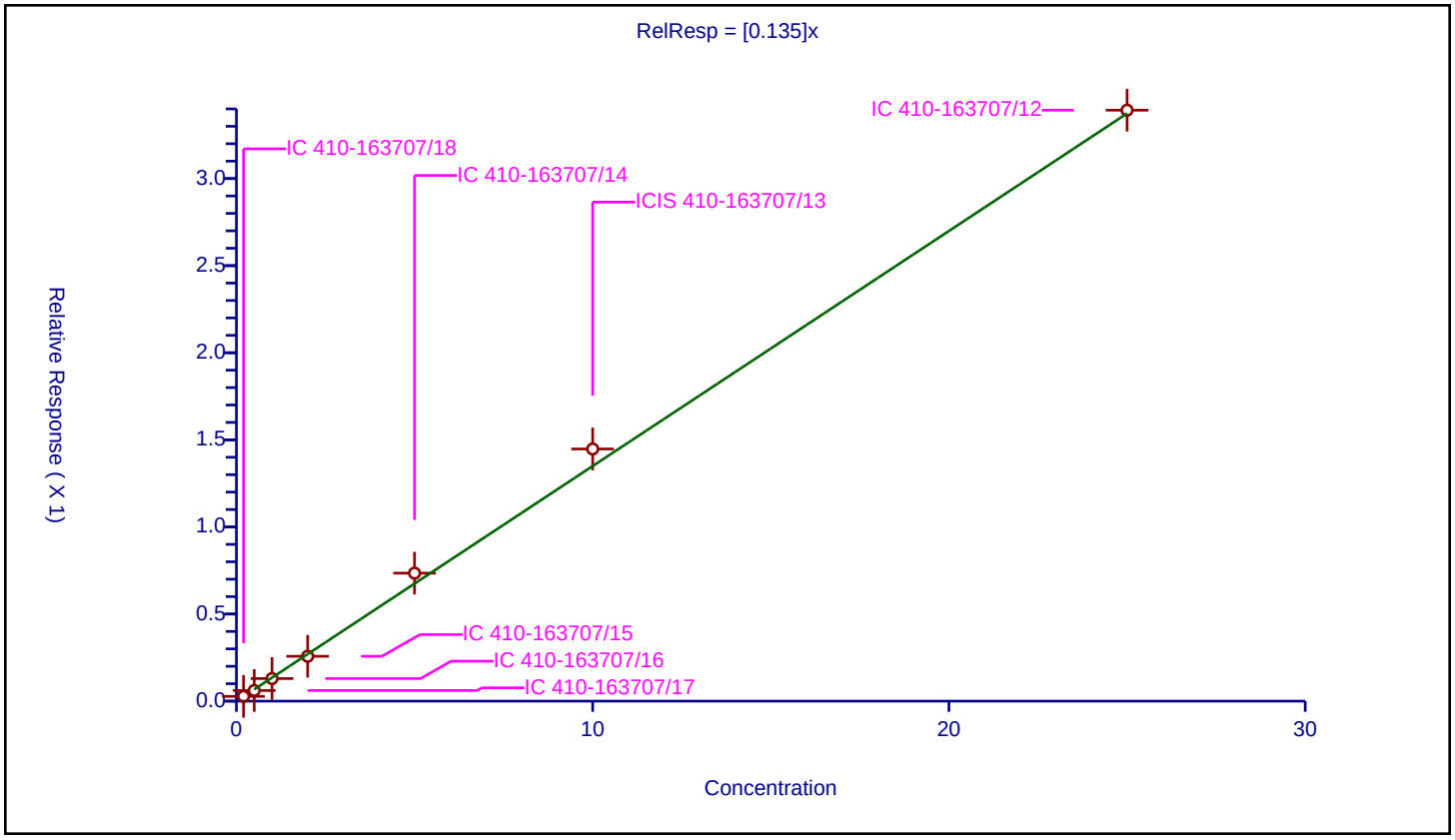
Curve Coefficients

Intercept:	0
Slope:	0.135

Error Coefficients

Standard Error:	351000
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 410-163707/18	0.2	0.027339	10.0	2203428.0	0.136696	Y
2	IC 410-163707/17	0.5	0.061089	10.0	2386508.0	0.122179	Y
3	IC 410-163707/16	1.0	0.129626	10.0	2167768.0	0.129626	Y
4	IC 410-163707/15	2.0	0.257507	10.0	2141536.0	0.128753	Y
5	IC 410-163707/14	5.0	0.734812	10.0	2115642.0	0.146962	Y
6	ICIS 410-163707/13	10.0	1.447522	10.0	2122537.0	0.144752	Y
7	IC 410-163707/12	25.0	3.392537	10.0	2314551.0	0.135701	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

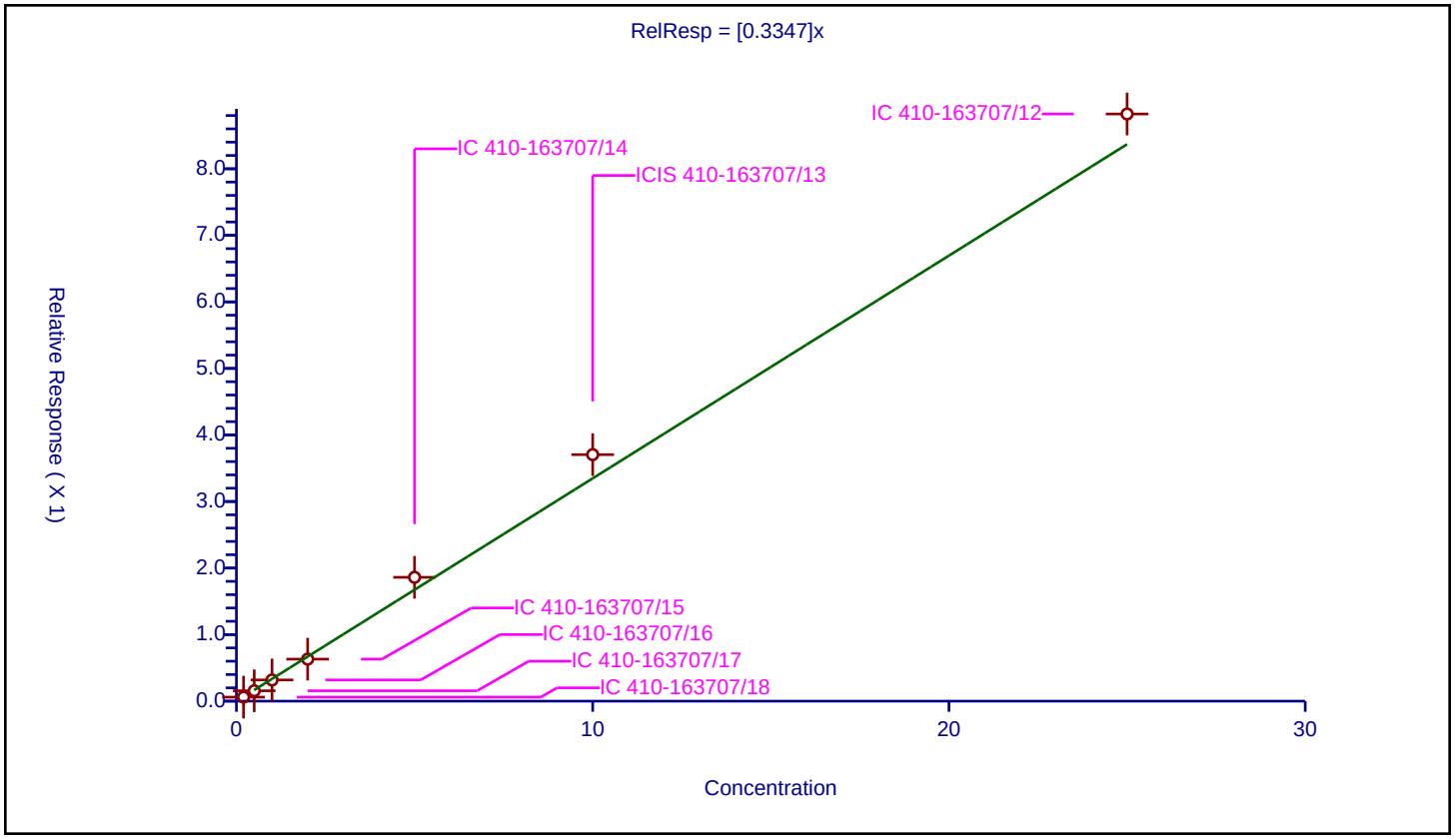
Curve Coefficients

Intercept:	0
Slope:	0.3347

Error Coefficients

Standard Error:	910000
Relative Standard Error:	8.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.060324	10.0	2203428.0	0.301621	Y
2	IC 410-163707/17	0.5	0.156031	10.0	2386508.0	0.312063	Y
3	IC 410-163707/16	1.0	0.318258	10.0	2167768.0	0.318258	Y
4	IC 410-163707/15	2.0	0.631239	10.0	2141536.0	0.315619	Y
5	IC 410-163707/14	5.0	1.861	10.0	2115642.0	0.3722	Y
6	ICIS 410-163707/13	10.0	3.704628	10.0	2122537.0	0.370463	Y
7	IC 410-163707/12	25.0	8.823223	10.0	2314551.0	0.352929	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

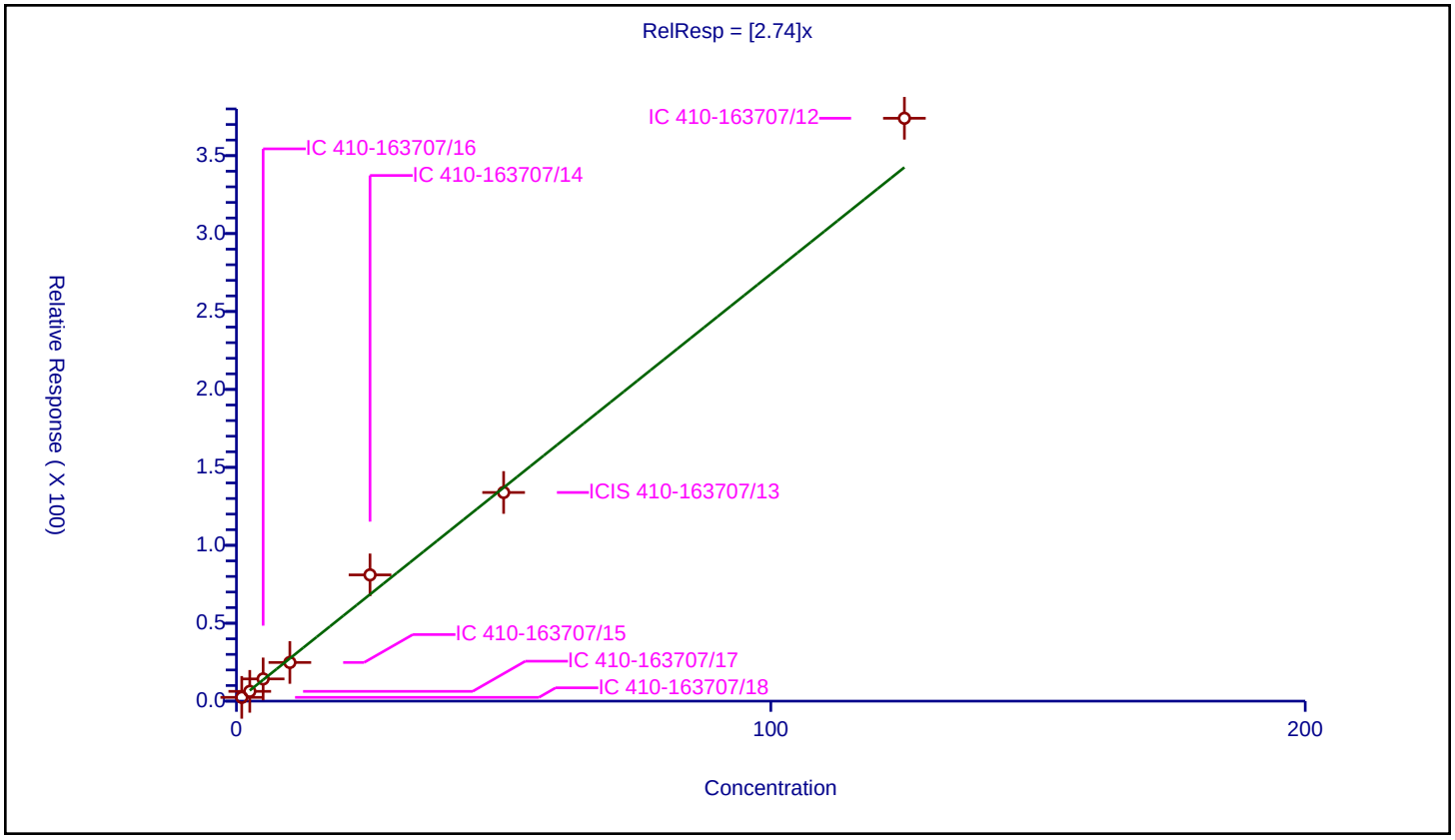
Curve Coefficients

Intercept:	0
Slope:	2.74

Error Coefficients

Standard Error:	511000
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 410-163707/18	1.0	2.422409	50.0	162132.0	2.422409	Y
2	IC 410-163707/17	2.5	6.281548	50.0	162651.0	2.512619	Y
3	IC 410-163707/16	5.0	14.264698	50.0	143084.0	2.85294	Y
4	IC 410-163707/15	10.0	24.822133	50.0	162903.0	2.482213	Y
5	IC 410-163707/14	25.0	81.00573	50.0	134380.0	3.240229	Y
6	ICIS 410-163707/13	50.0	133.878515	50.0	165205.0	2.67757	Y
7	IC 410-163707/12	125.0	373.986044	50.0	153335.0	2.991888	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

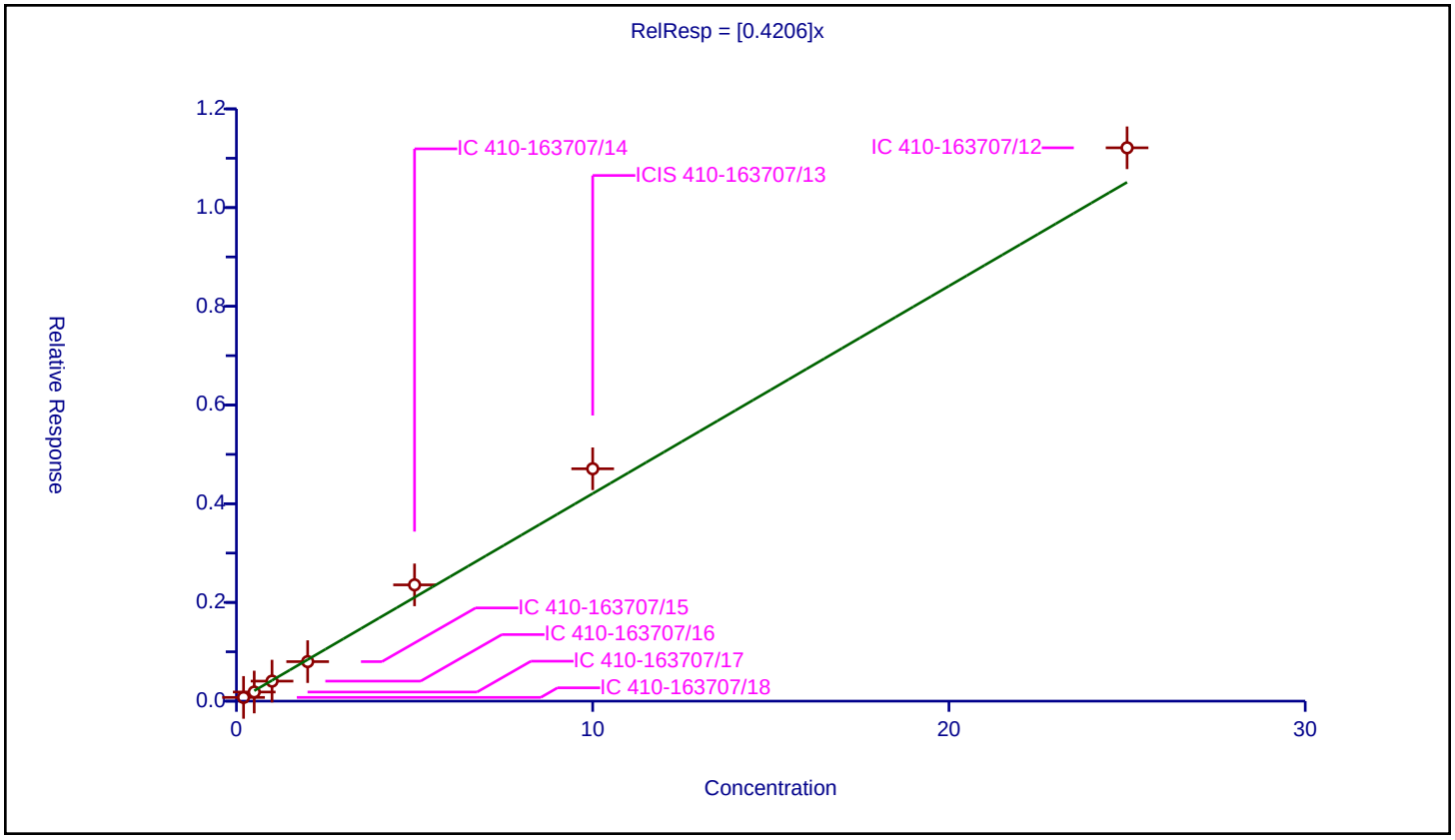
Curve Coefficients

Intercept:	0
Slope:	0.4206

Error Coefficients

Standard Error:	1160000
Relative Standard Error:	10.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.075482	10.0	2203428.0	0.377412	Y
2	IC 410-163707/17	0.5	0.185019	10.0	2386508.0	0.370039	Y
3	IC 410-163707/16	1.0	0.405708	10.0	2167768.0	0.405708	Y
4	IC 410-163707/15	2.0	0.800561	10.0	2141536.0	0.40028	Y
5	IC 410-163707/14	5.0	2.356022	10.0	2115642.0	0.471204	Y
6	ICIS 410-163707/13	10.0	4.708257	10.0	2122537.0	0.470826	Y
7	IC 410-163707/12	25.0	11.211406	10.0	2314551.0	0.448456	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

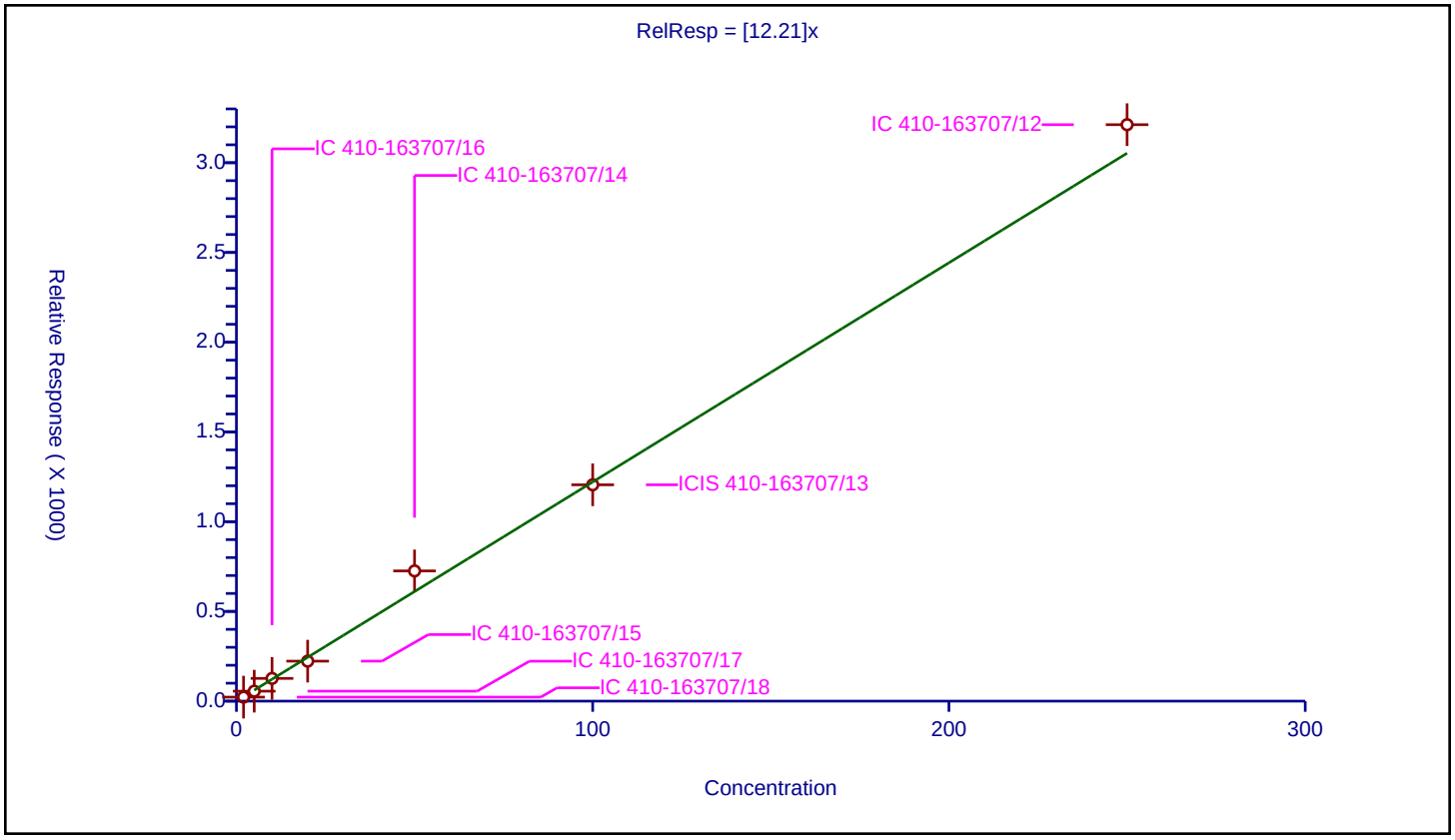
Curve Coefficients

Intercept:	0
Slope:	12.21

Error Coefficients

Standard Error:	4420000
Relative Standard Error:	10.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	2.0	22.343214	50.0	162132.0	11.171607	Y
2	IC 410-163707/17	5.0	55.52379	50.0	162651.0	11.104758	Y
3	IC 410-163707/16	10.0	126.599061	50.0	143084.0	12.659906	Y
4	IC 410-163707/15	20.0	222.773061	50.0	162903.0	11.138653	Y
5	IC 410-163707/14	50.0	725.584536	50.0	134380.0	14.511691	Y
6	ICIS 410-163707/13	100.0	1205.45837	50.0	165205.0	12.054584	Y
7	IC 410-163707/12	250.0	3211.922588	50.0	153335.0	12.84769	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

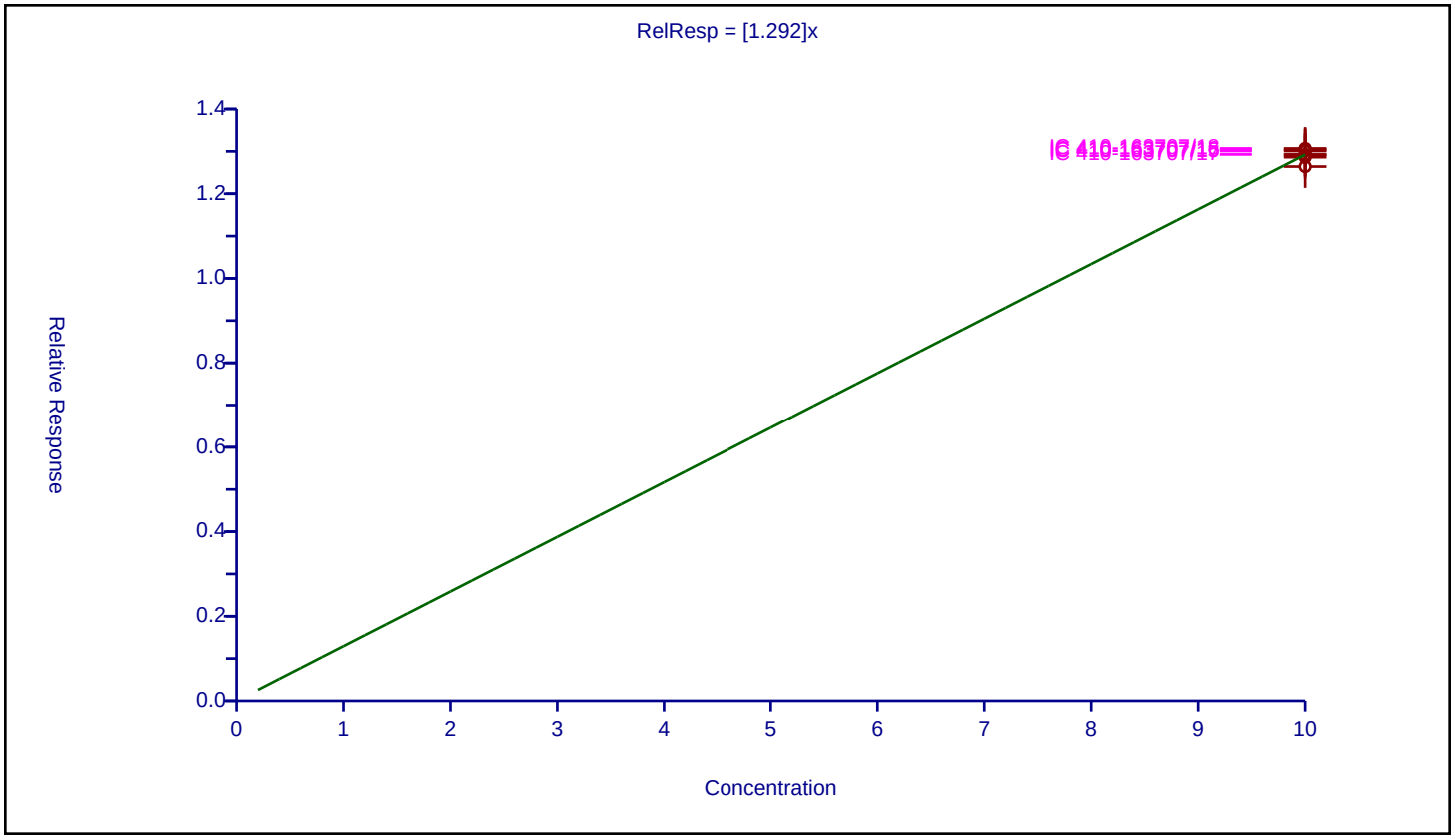
Curve Coefficients

Intercept:	0
Slope:	1.292

Error Coefficients

Standard Error:	2390000
Relative Standard Error:	1.1
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/12	10.0	12.642123	10.0	1830649.0	1.264212	Y
2	ICIS 410-163707/13	10.0	12.91349	10.0	1640634.0	1.291349	Y
3	IC 410-163707/14	10.0	12.862715	10.0	1642811.0	1.286272	Y
4	IC 410-163707/15	10.0	13.007568	10.0	1654646.0	1.300757	Y
5	IC 410-163707/16	10.0	13.038338	10.0	1659651.0	1.303834	Y
6	IC 410-163707/17	10.0	12.928443	10.0	1845718.0	1.292844	Y
7	IC 410-163707/18	10.0	13.068865	10.0	1679409.0	1.306887	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

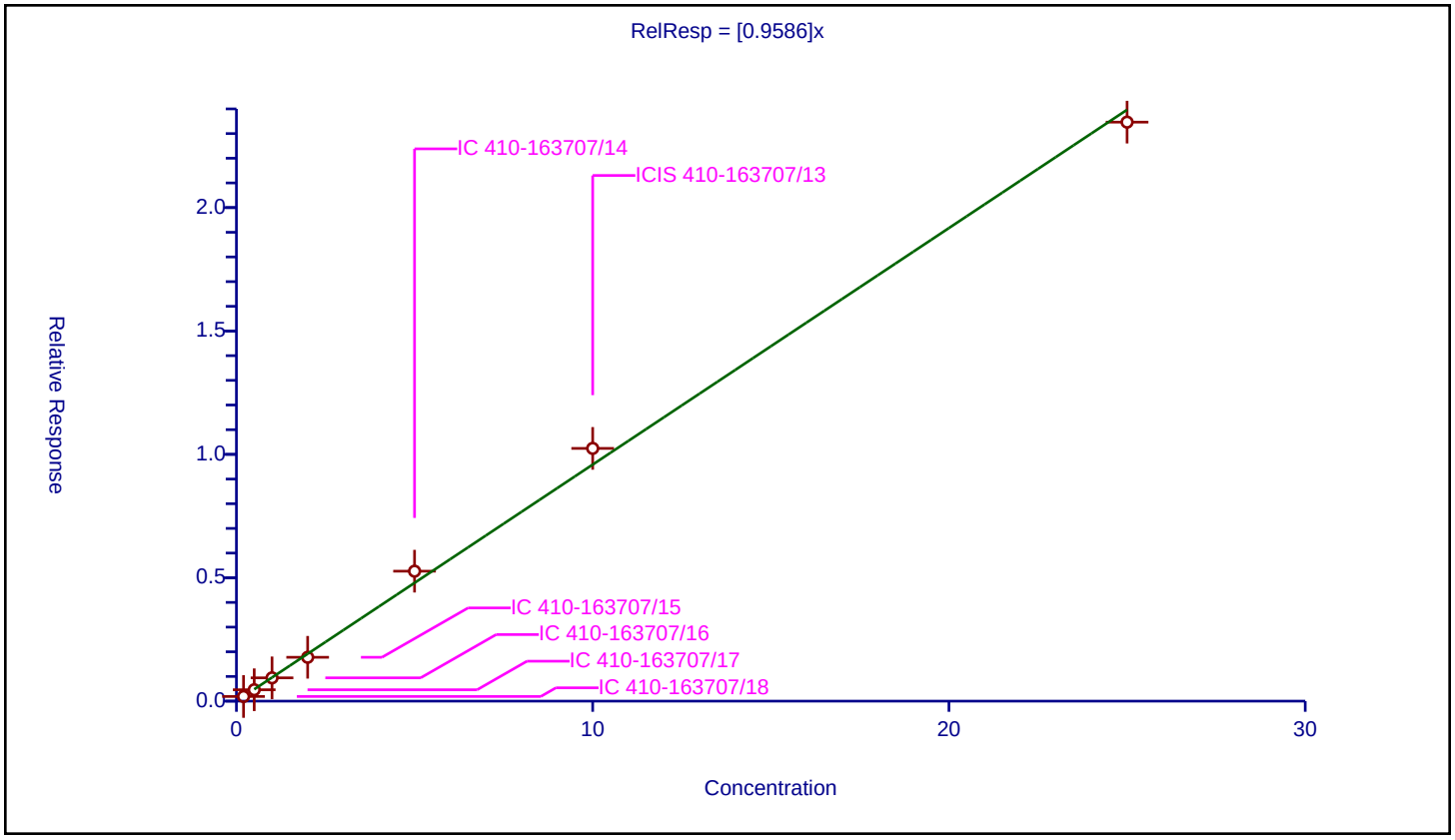
Curve Coefficients

Intercept:	0
Slope:	0.9586

Error Coefficients

Standard Error:	1920000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.18781	10.0	1679409.0	0.939051	Y
2	IC 410-163707/17	0.5	0.461463	10.0	1845718.0	0.922925	Y
3	IC 410-163707/16	1.0	0.943469	10.0	1659651.0	0.943469	Y
4	IC 410-163707/15	2.0	1.776851	10.0	1654646.0	0.888426	Y
5	IC 410-163707/14	5.0	5.266631	10.0	1642811.0	1.053326	Y
6	ICIS 410-163707/13	10.0	10.24251	10.0	1640634.0	1.024251	Y
7	IC 410-163707/12	25.0	23.464083	10.0	1830649.0	0.938563	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

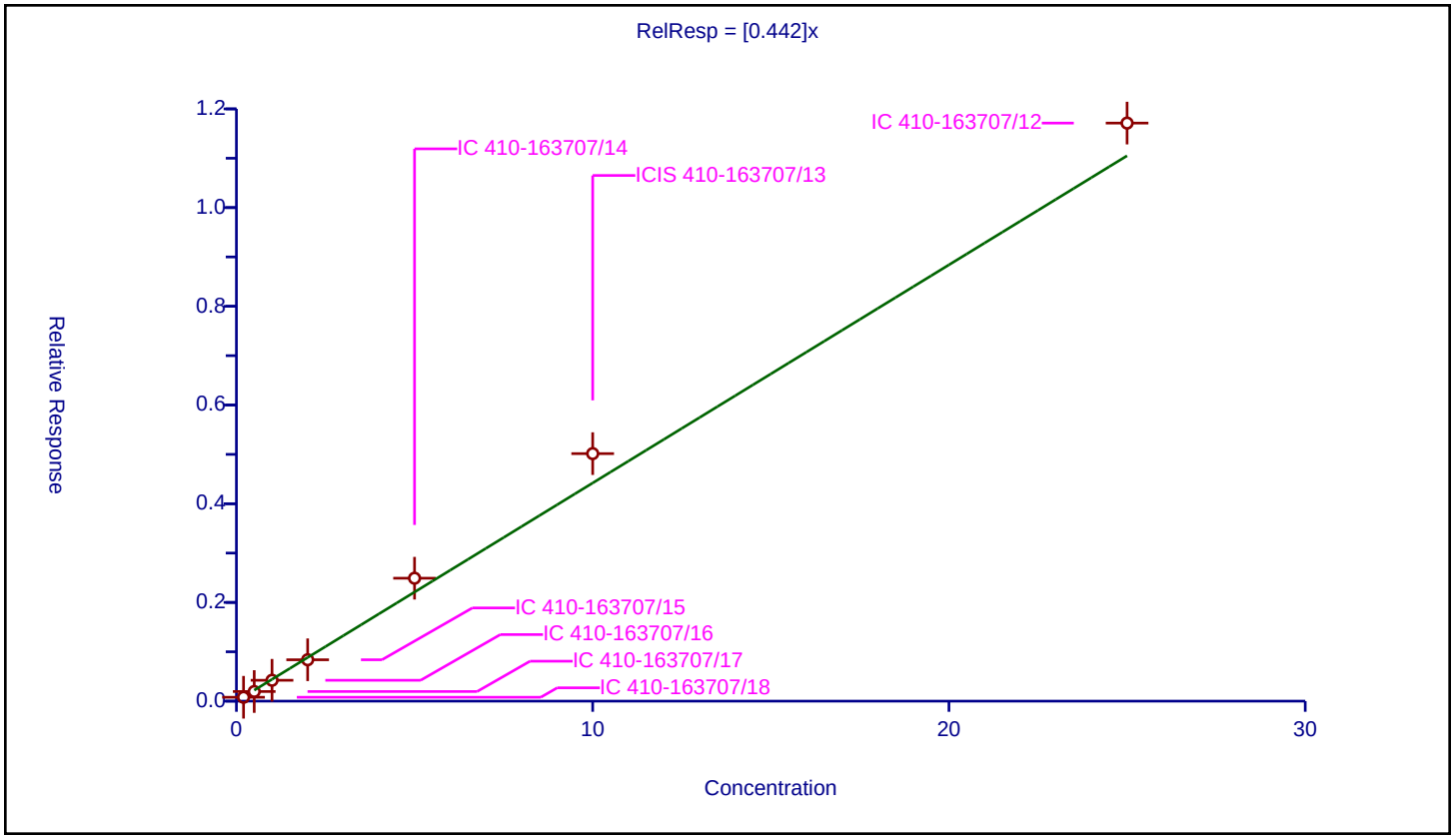
Curve Coefficients

Intercept:	0
Slope:	0.442

Error Coefficients

Standard Error:	955000
Relative Standard Error:	10.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.078694	10.0	1679409.0	0.393472	Y
2	IC 410-163707/17	0.5	0.195019	10.0	1845718.0	0.390038	Y
3	IC 410-163707/16	1.0	0.423077	10.0	1659651.0	0.423077	Y
4	IC 410-163707/15	2.0	0.838506	10.0	1654646.0	0.419253	Y
5	IC 410-163707/14	5.0	2.490962	10.0	1642811.0	0.498192	Y
6	ICIS 410-163707/13	10.0	5.015287	10.0	1640634.0	0.501529	Y
7	IC 410-163707/12	25.0	11.712595	10.0	1830649.0	0.468504	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

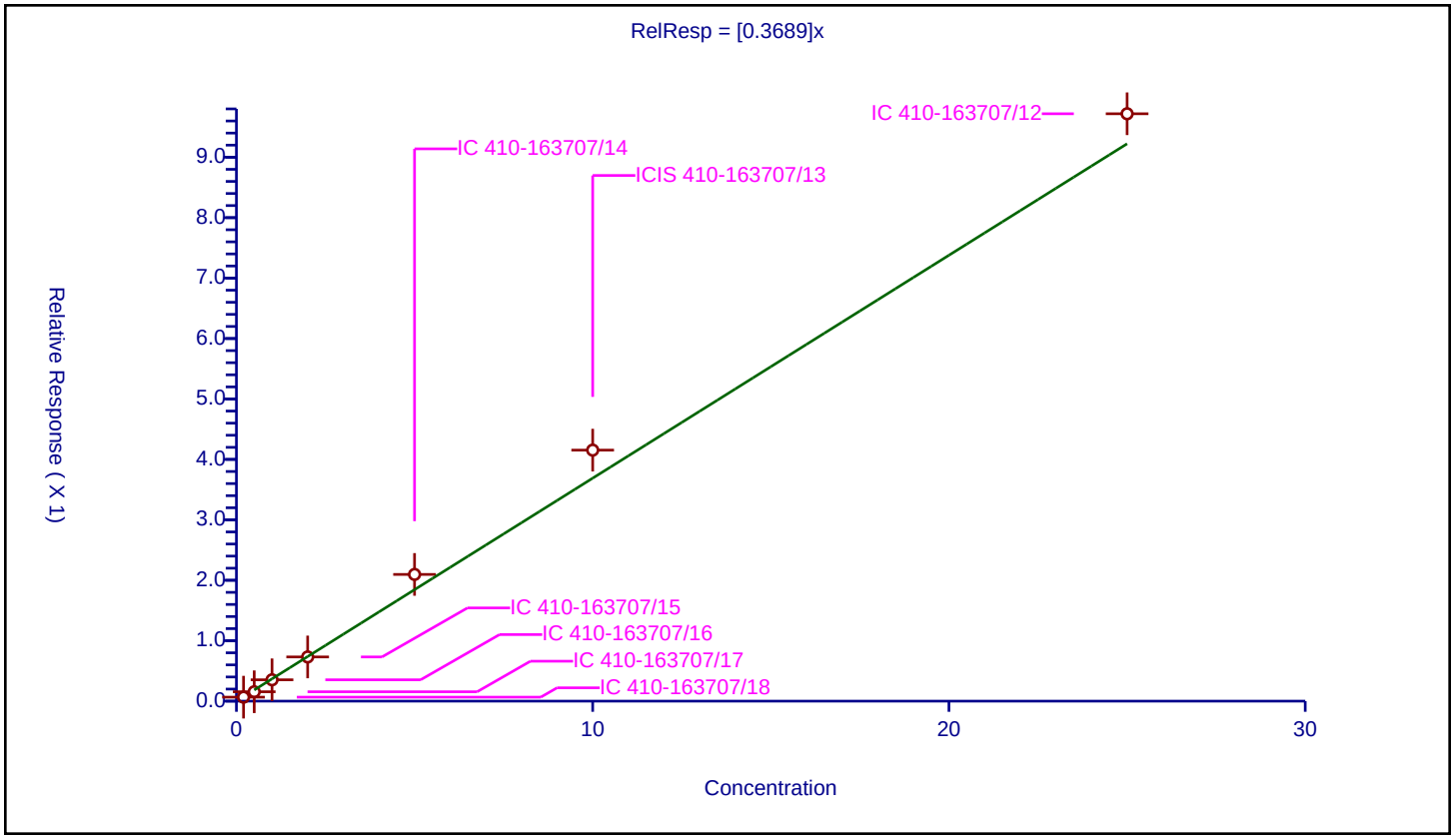
Curve Coefficients

Intercept:	0
Slope:	0.3689

Error Coefficients

Standard Error:	792000
Relative Standard Error:	11.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.200009	0.065851	10.0	1679409.0	0.329238	Y
2	IC 410-163707/17	0.500022	0.155414	10.0	1845718.0	0.310814	Y
3	IC 410-163707/16	1.000044	0.353189	10.0	1659651.0	0.353173	Y
4	IC 410-163707/15	2.000088	0.731516	10.0	1654646.0	0.365742	Y
5	IC 410-163707/14	5.000219	2.096644	10.0	1642811.0	0.41931	Y
6	ICIS 410-163707/13	10.000438	4.153589	10.0	1640634.0	0.415341	Y
7	IC 410-163707/12	25.001094	9.719471	10.0	1830649.0	0.388762	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

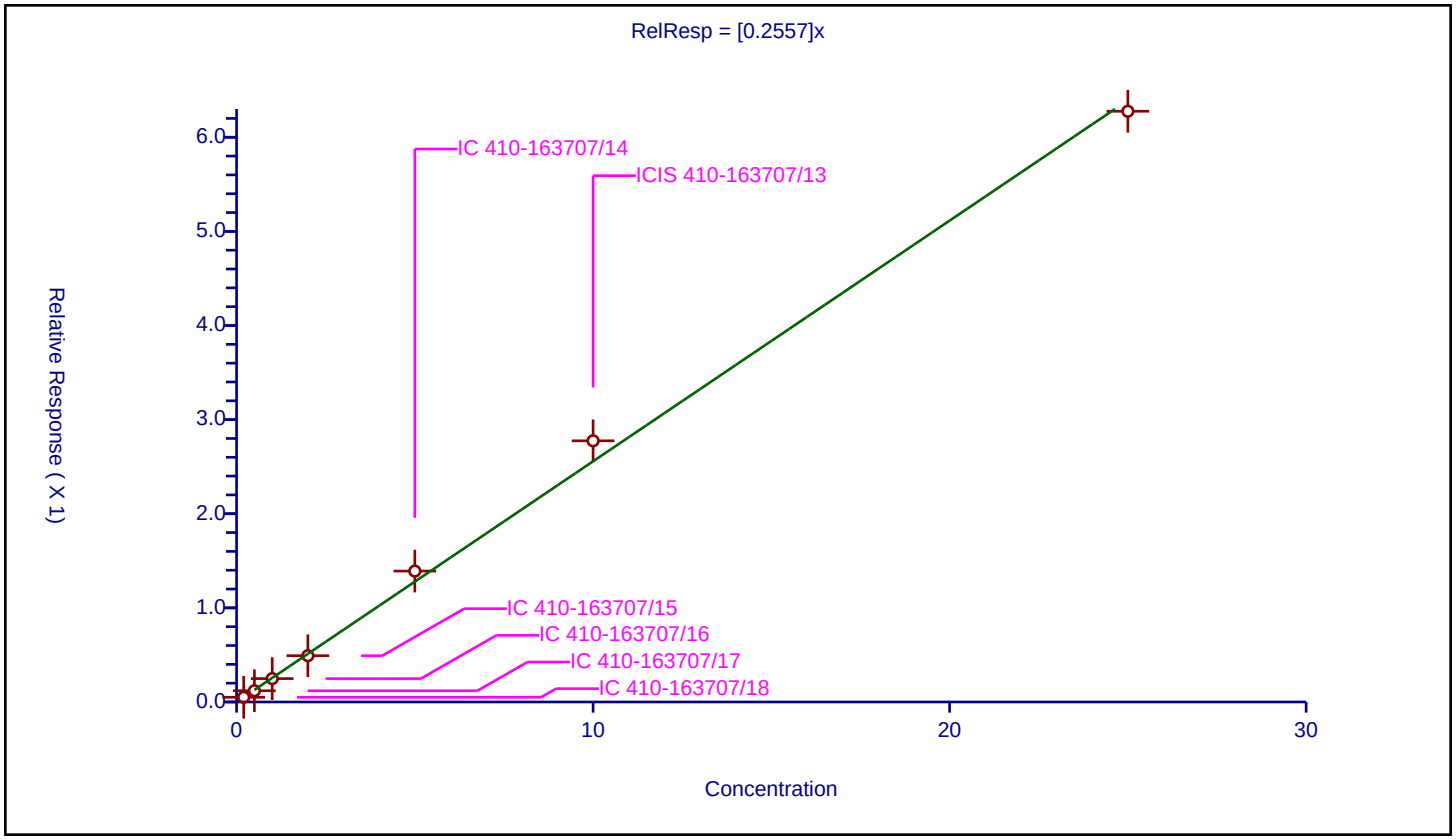
Curve Coefficients

Intercept:	0
Slope:	0.2557

Error Coefficients

Standard Error:	515000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.049988	10.0	1679409.0	0.249939	Y
2	IC 410-163707/17	0.5	0.119493	10.0	1845718.0	0.238986	Y
3	IC 410-163707/16	1.0	0.248462	10.0	1659651.0	0.248462	Y
4	IC 410-163707/15	2.0	0.491604	10.0	1654646.0	0.245802	Y
5	IC 410-163707/14	5.0	1.390896	10.0	1642811.0	0.278179	Y
6	ICIS 410-163707/13	10.0	2.774714	10.0	1640634.0	0.277471	Y
7	IC 410-163707/12	25.0	6.27625	10.0	1830649.0	0.25105	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

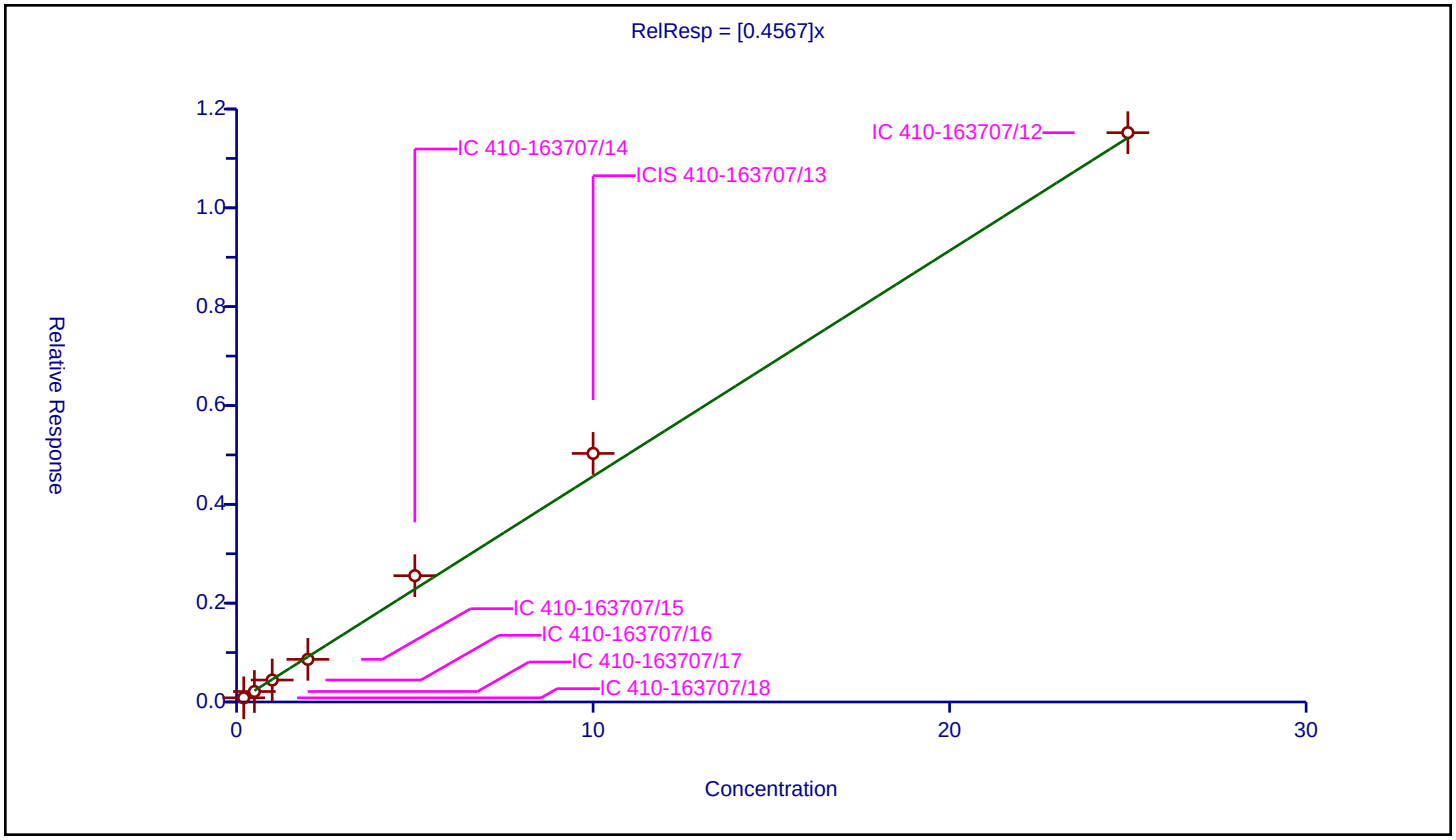
Curve Coefficients

Intercept:	0
Slope:	0.4567

Error Coefficients

Standard Error:	943000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.084321	10.0	1679409.0	0.421607	Y
2	IC 410-163707/17	0.5	0.212161	10.0	1845718.0	0.424323	Y
3	IC 410-163707/16	1.0	0.444371	10.0	1659651.0	0.444371	Y
4	IC 410-163707/15	2.0	0.862898	10.0	1654646.0	0.431449	Y
5	IC 410-163707/14	5.0	2.556289	10.0	1642811.0	0.511258	Y
6	ICIS 410-163707/13	10.0	5.03033	10.0	1640634.0	0.503033	Y
7	IC 410-163707/12	25.0	11.521411	10.0	1830649.0	0.460856	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

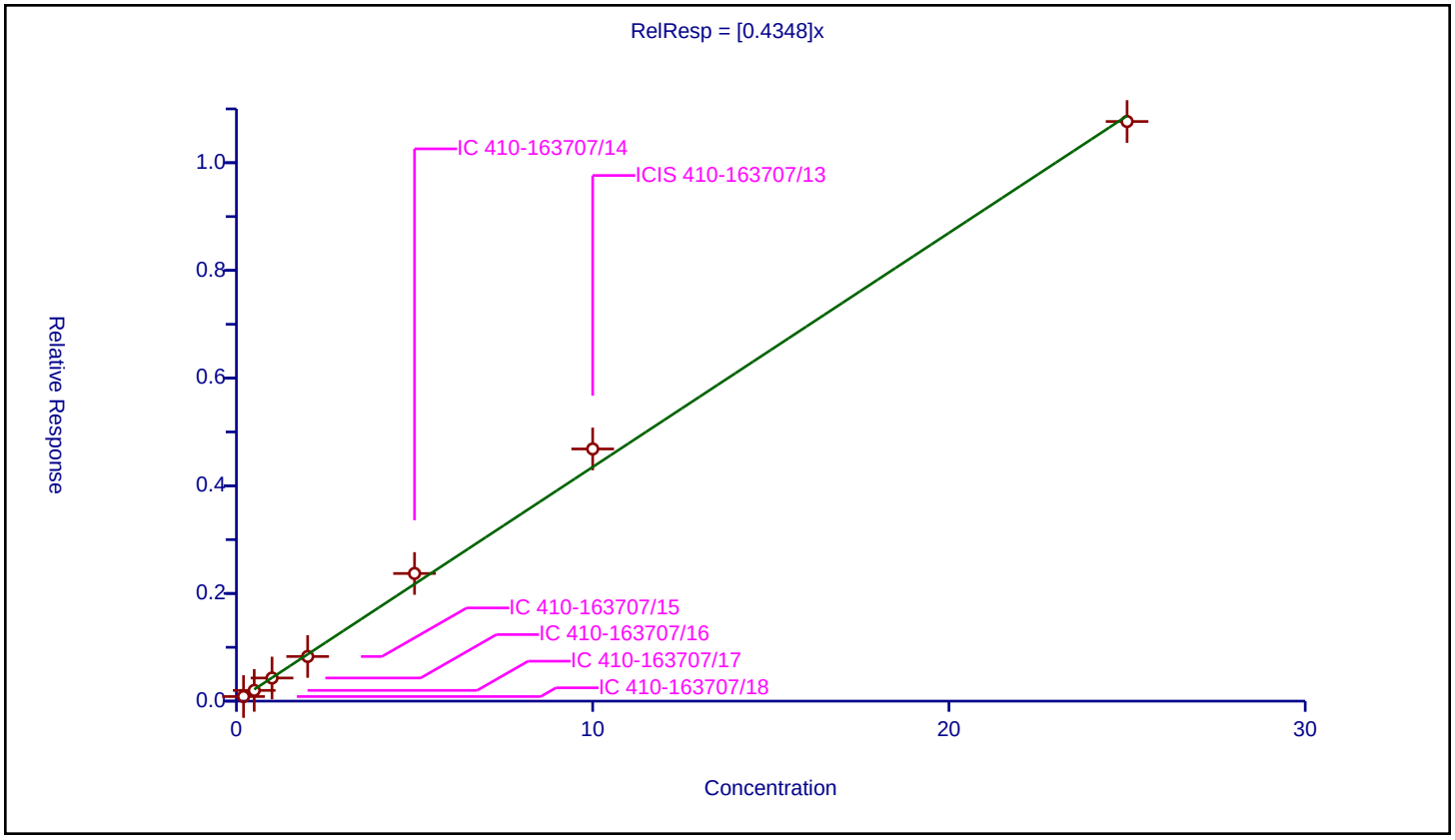
Curve Coefficients

Intercept:	0
Slope:	0.4348

Error Coefficients

Standard Error:	881000
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 410-163707/18	0.2	0.085423	10.0	1679409.0	0.427115	Y
2	IC 410-163707/17	0.5	0.199543	10.0	1845718.0	0.399086	Y
3	IC 410-163707/16	1.0	0.429807	10.0	1659651.0	0.429807	Y
4	IC 410-163707/15	2.0	0.829283	10.0	1654646.0	0.414642	Y
5	IC 410-163707/14	5.0	2.371301	10.0	1642811.0	0.47426	Y
6	ICIS 410-163707/13	10.0	4.683836	10.0	1640634.0	0.468384	Y
7	IC 410-163707/12	25.0	10.766204	10.0	1830649.0	0.430648	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

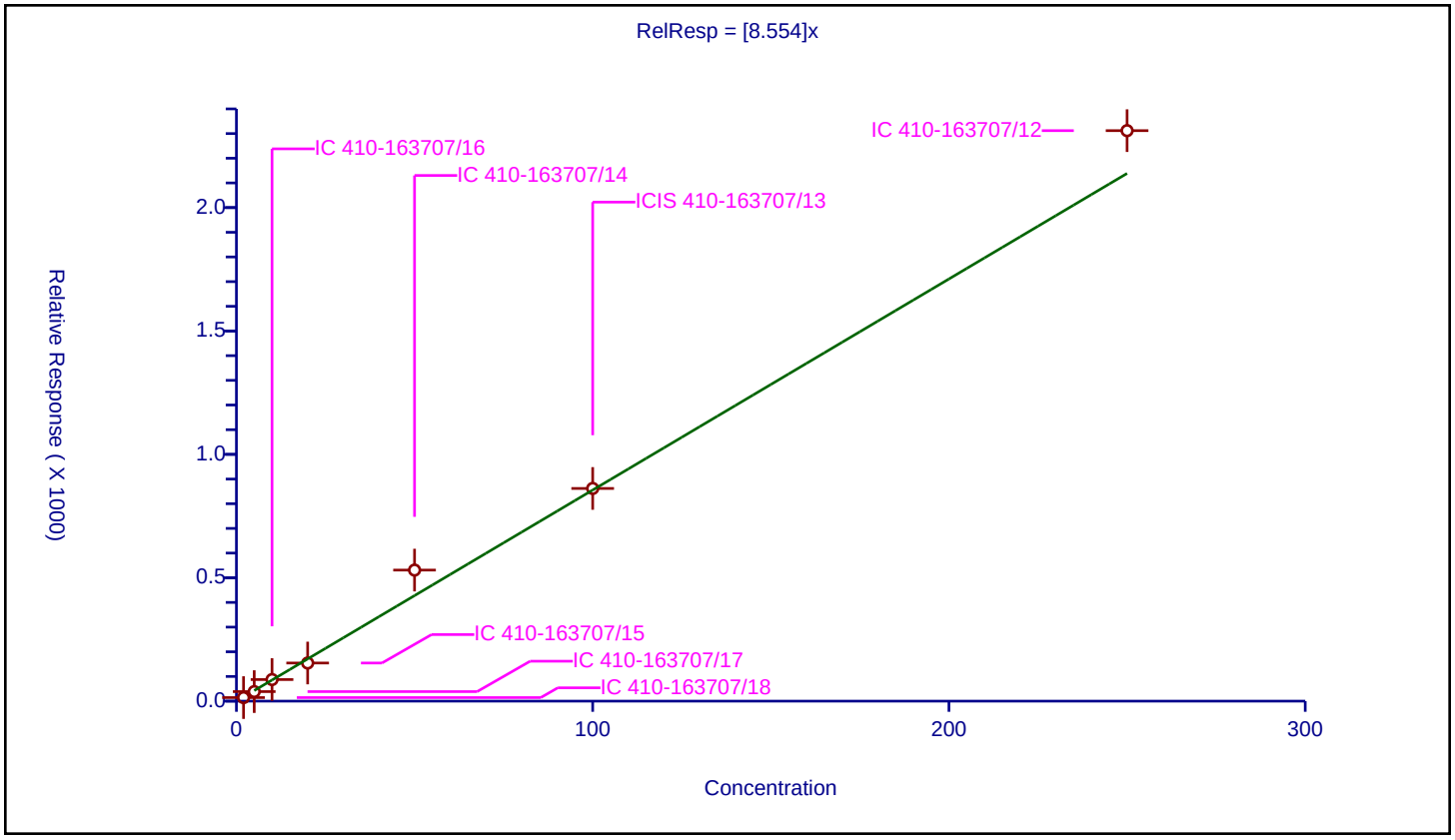
Curve Coefficients

Intercept:	0
Slope:	8.554

Error Coefficients

Standard Error:	3180000
Relative Standard Error:	13.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	2.0	14.365455	50.0	162132.0	7.182728	Y
2	IC 410-163707/17	5.0	38.675754	50.0	162651.0	7.735151	Y
3	IC 410-163707/16	10.0	87.473792	50.0	143084.0	8.747379	Y
4	IC 410-163707/15	20.0	154.520482	50.0	162903.0	7.726024	Y
5	IC 410-163707/14	50.0	531.035496	50.0	134380.0	10.62071	Y
6	ICIS 410-163707/13	100.0	861.842559	50.0	165205.0	8.618426	Y
7	IC 410-163707/12	250.0	2311.818241	50.0	153335.0	9.247273	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

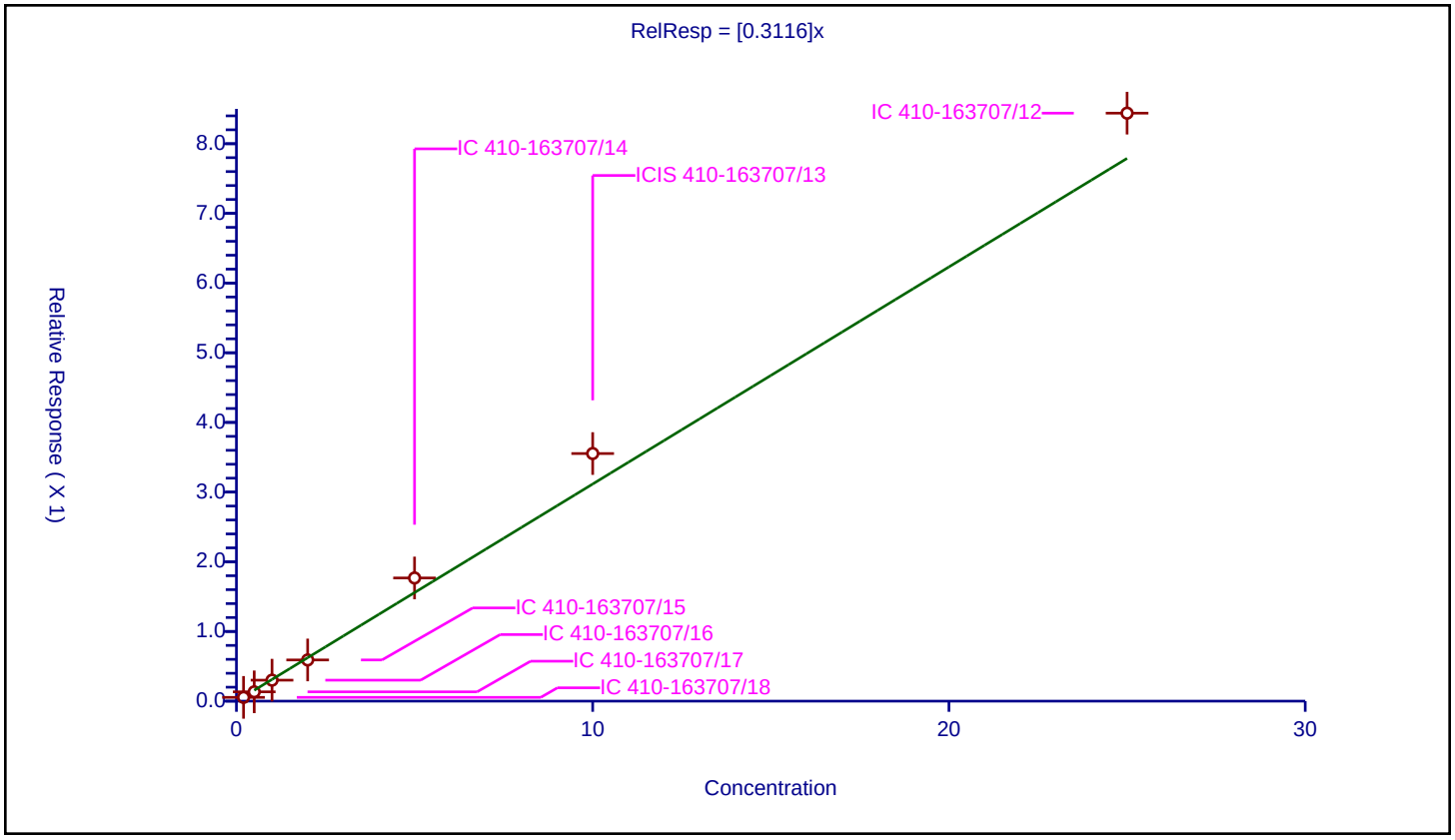
Curve Coefficients

Intercept:	0
Slope:	0.3116

Error Coefficients

Standard Error:	686000
Relative Standard Error:	12.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.054168	10.0	1679409.0	0.270839	Y
2	IC 410-163707/17	0.5	0.133623	10.0	1845718.0	0.267246	Y
3	IC 410-163707/16	1.0	0.301003	10.0	1659651.0	0.301003	Y
4	IC 410-163707/15	2.0	0.591256	10.0	1654646.0	0.295628	Y
5	IC 410-163707/14	5.0	1.767805	10.0	1642811.0	0.353561	Y
6	ICIS 410-163707/13	10.0	3.553437	10.0	1640634.0	0.355344	Y
7	IC 410-163707/12	25.0	8.438712	10.0	1830649.0	0.337548	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

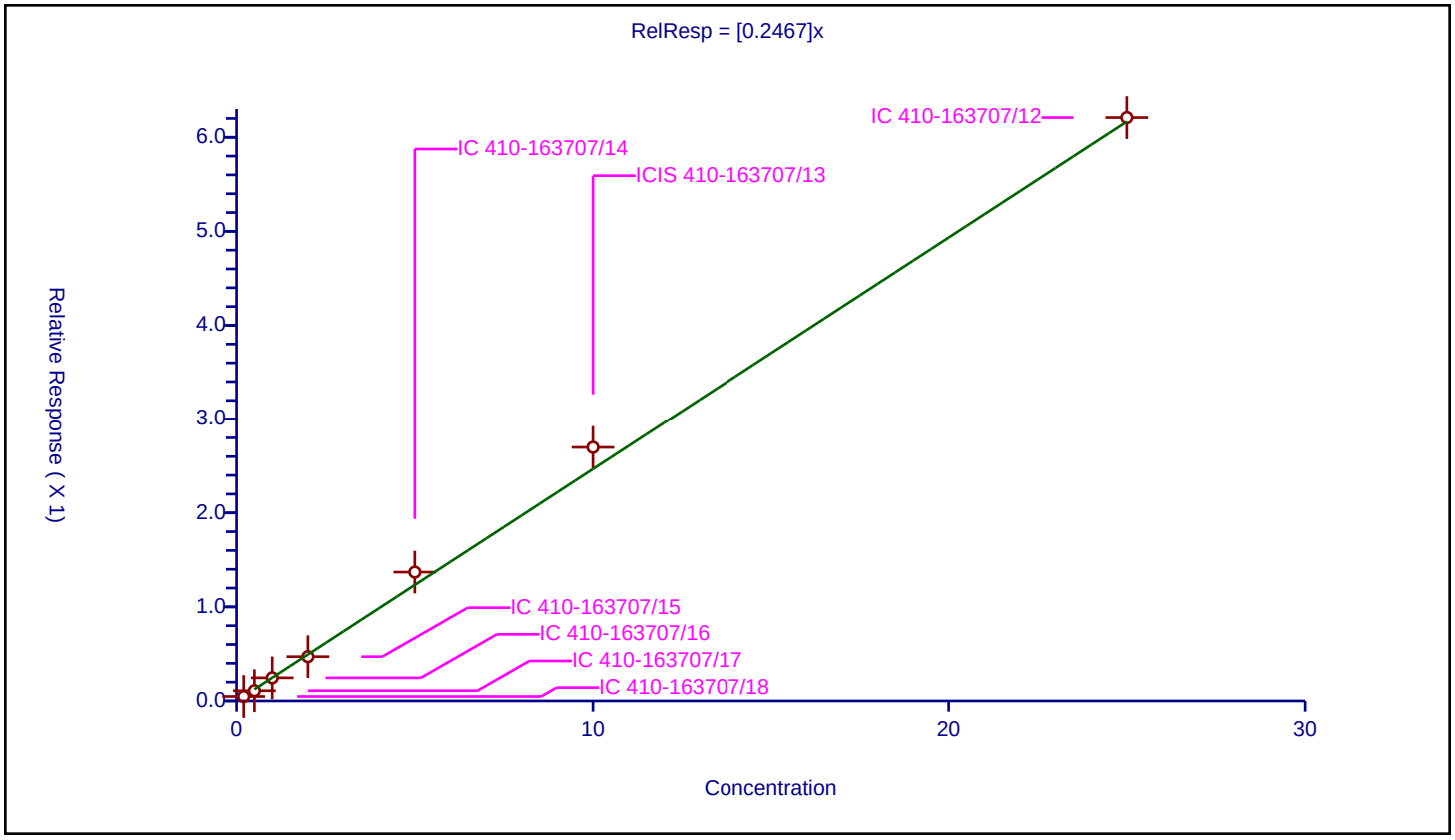
Curve Coefficients

Intercept:	0
Slope:	0.2467

Error Coefficients

Standard Error:	508000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.047374	10.0	1679409.0	0.236869	Y
2	IC 410-163707/17	0.5	0.108521	10.0	1845718.0	0.217043	Y
3	IC 410-163707/16	1.0	0.245509	10.0	1659651.0	0.245509	Y
4	IC 410-163707/15	2.0	0.470421	10.0	1654646.0	0.23521	Y
5	IC 410-163707/14	5.0	1.369902	10.0	1642811.0	0.27398	Y
6	ICIS 410-163707/13	10.0	2.698268	10.0	1640634.0	0.269827	Y
7	IC 410-163707/12	25.0	6.209333	10.0	1830649.0	0.248373	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

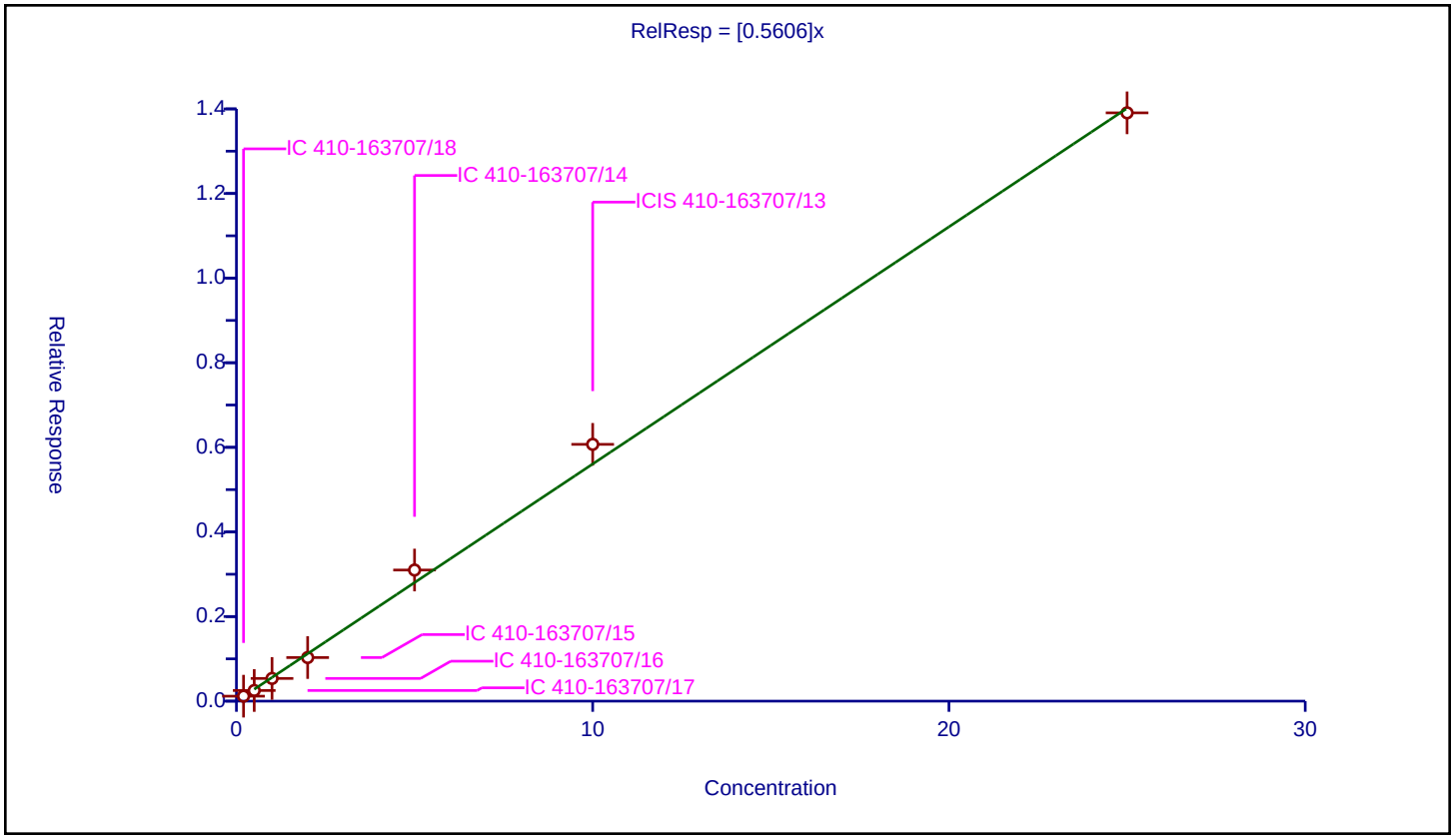
Curve Coefficients

Intercept:	0
Slope:	0.5606

Error Coefficients

Standard Error:	1140000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.117327	10.0	1679409.0	0.586635	Y
2	IC 410-163707/17	0.5	0.251398	10.0	1845718.0	0.502796	Y
3	IC 410-163707/16	1.0	0.536601	10.0	1659651.0	0.536601	Y
4	IC 410-163707/15	2.0	1.030112	10.0	1654646.0	0.515056	Y
5	IC 410-163707/14	5.0	3.098926	10.0	1642811.0	0.619785	Y
6	ICIS 410-163707/13	10.0	6.070275	10.0	1640634.0	0.607028	Y
7	IC 410-163707/12	25.0	13.906516	10.0	1830649.0	0.556261	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

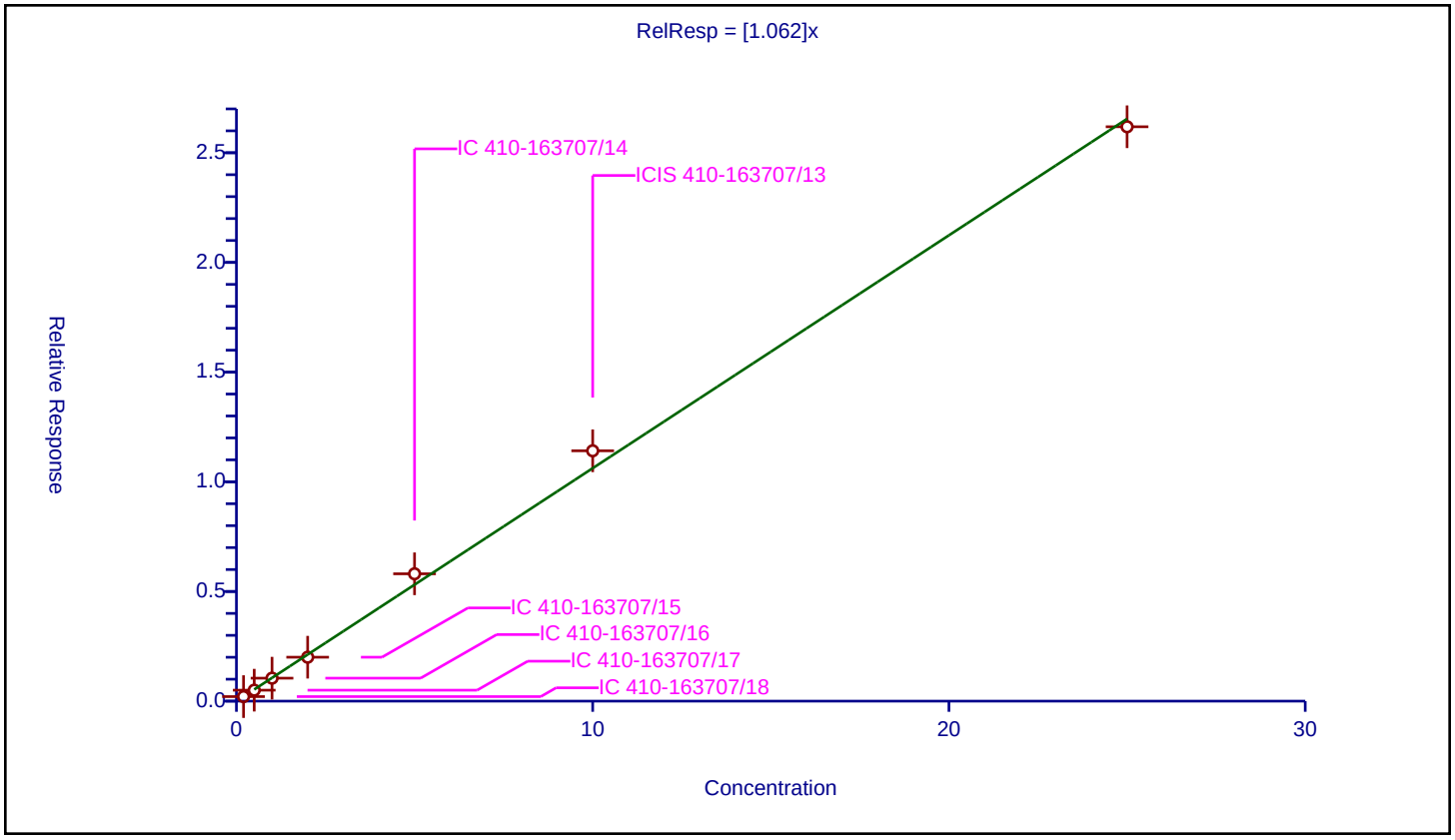
Curve Coefficients

Intercept:	0
Slope:	1.062

Error Coefficients

Standard Error:	2140000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.206811	10.0	1679409.0	1.034054	Y
2	IC 410-163707/17	0.5	0.499936	10.0	1845718.0	0.999871	Y
3	IC 410-163707/16	1.0	1.047515	10.0	1659651.0	1.047515	Y
4	IC 410-163707/15	2.0	2.003099	10.0	1654646.0	1.00155	Y
5	IC 410-163707/14	5.0	5.80634	10.0	1642811.0	1.161268	Y
6	ICIS 410-163707/13	10.0	11.413435	10.0	1640634.0	1.141344	Y
7	IC 410-163707/12	25.0	26.184757	10.0	1830649.0	1.04739	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

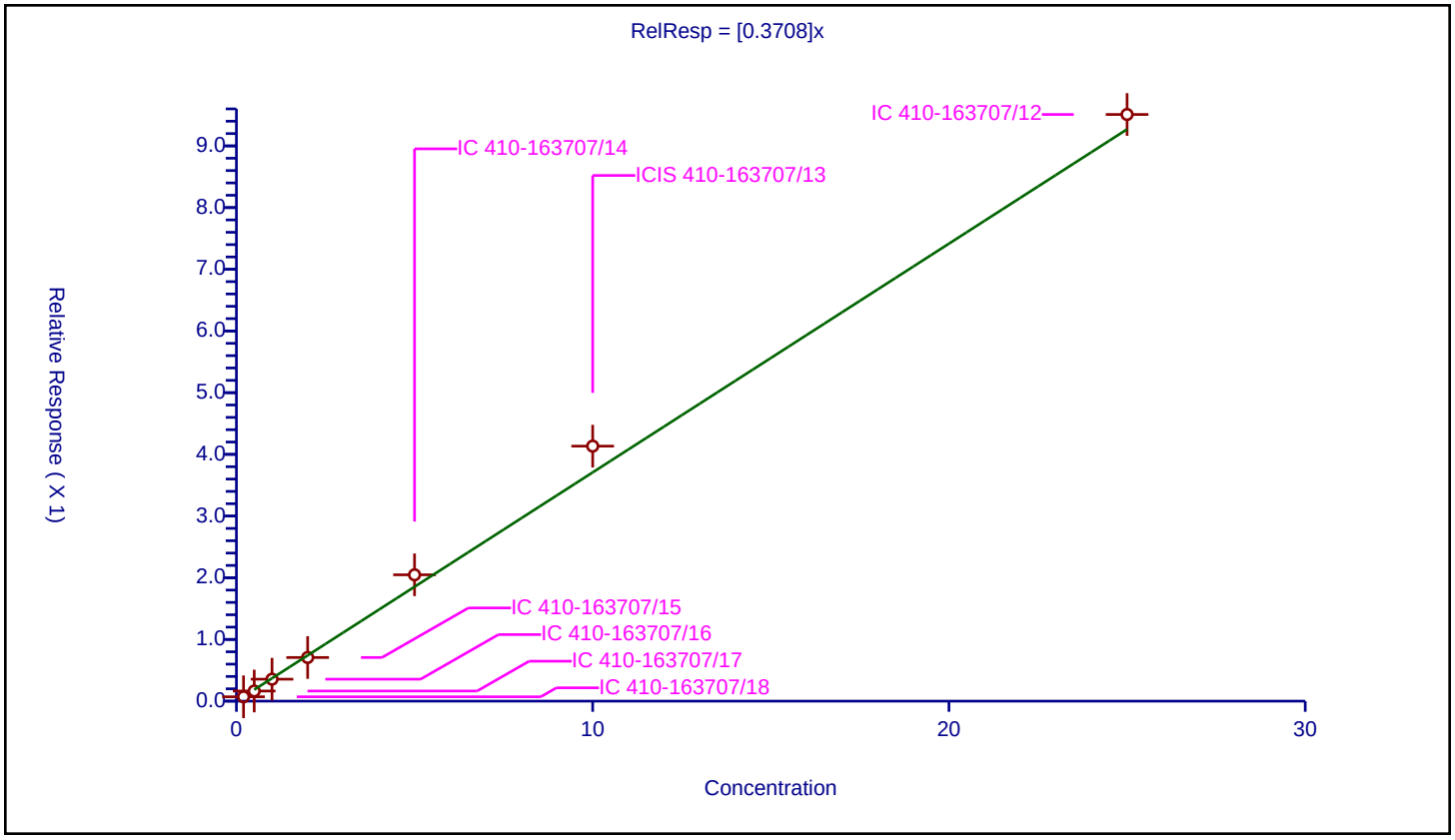
Curve Coefficients

Intercept:	0
Slope:	0.3708

Error Coefficients

Standard Error:	777000
Relative Standard Error:	8.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.070686	10.0	1679409.0	0.353428	Y
2	IC 410-163707/17	0.5	0.164408	10.0	1845718.0	0.328815	Y
3	IC 410-163707/16	1.0	0.356135	10.0	1659651.0	0.356135	Y
4	IC 410-163707/15	2.0	0.707553	10.0	1654646.0	0.353777	Y
5	IC 410-163707/14	5.0	2.047716	10.0	1642811.0	0.409543	Y
6	ICIS 410-163707/13	10.0	4.133536	10.0	1640634.0	0.413354	Y
7	IC 410-163707/12	25.0	9.509174	10.0	1830649.0	0.380367	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

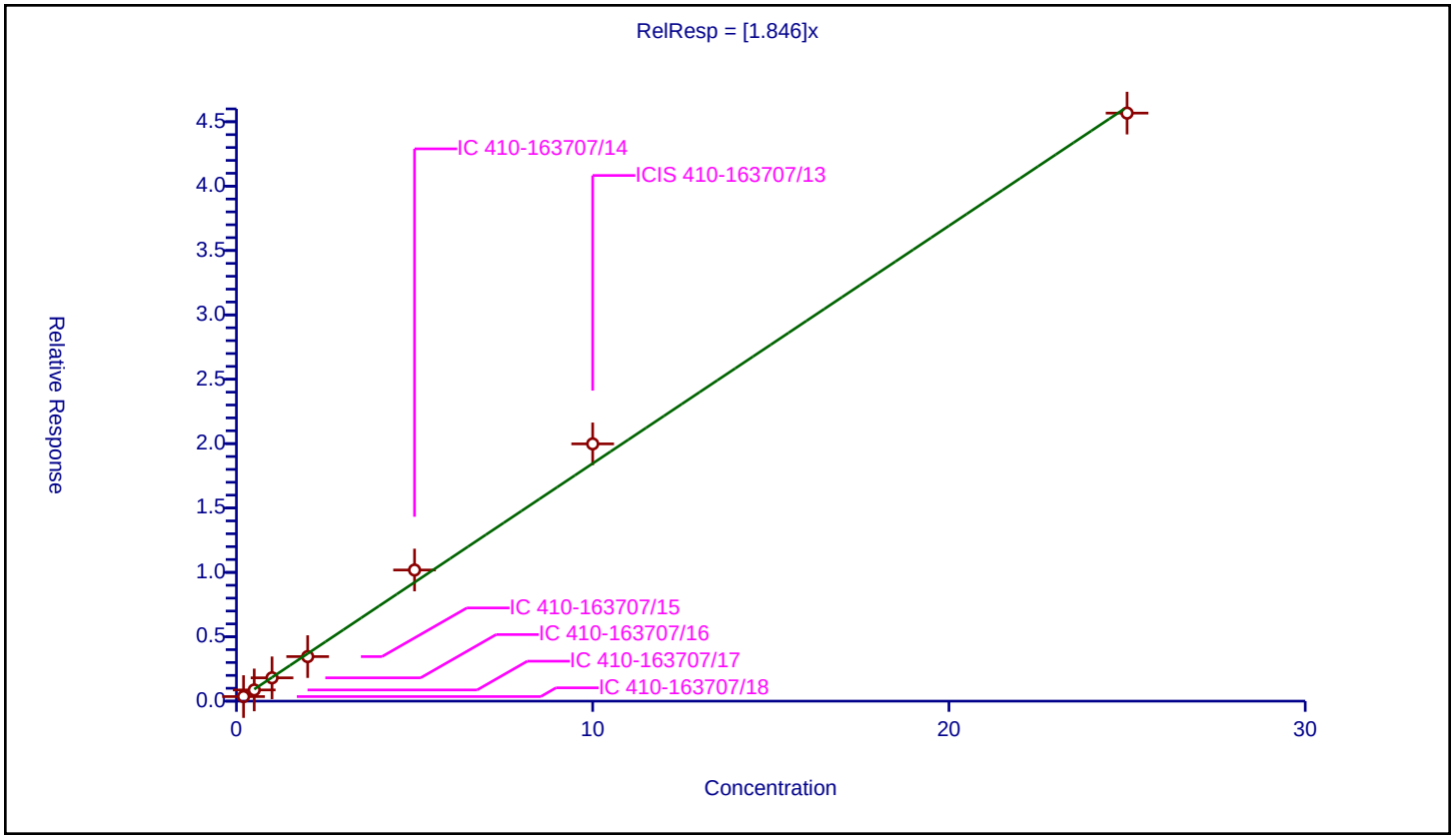
Curve Coefficients

Intercept:	0
Slope:	1.846

Error Coefficients

Standard Error:	3740000
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 410-163707/18	0.2	0.355494	10.0	1679409.0	1.777471	Y
2	IC 410-163707/17	0.5	0.870881	10.0	1845718.0	1.741761	Y
3	IC 410-163707/16	1.0	1.810296	10.0	1659651.0	1.810296	Y
4	IC 410-163707/15	2.0	3.459453	10.0	1654646.0	1.729726	Y
5	IC 410-163707/14	5.0	10.185061	10.0	1642811.0	2.037012	Y
6	ICIS 410-163707/13	10.0	19.981428	10.0	1640634.0	1.998143	Y
7	IC 410-163707/12	25.0	45.67283	10.0	1830649.0	1.826913	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

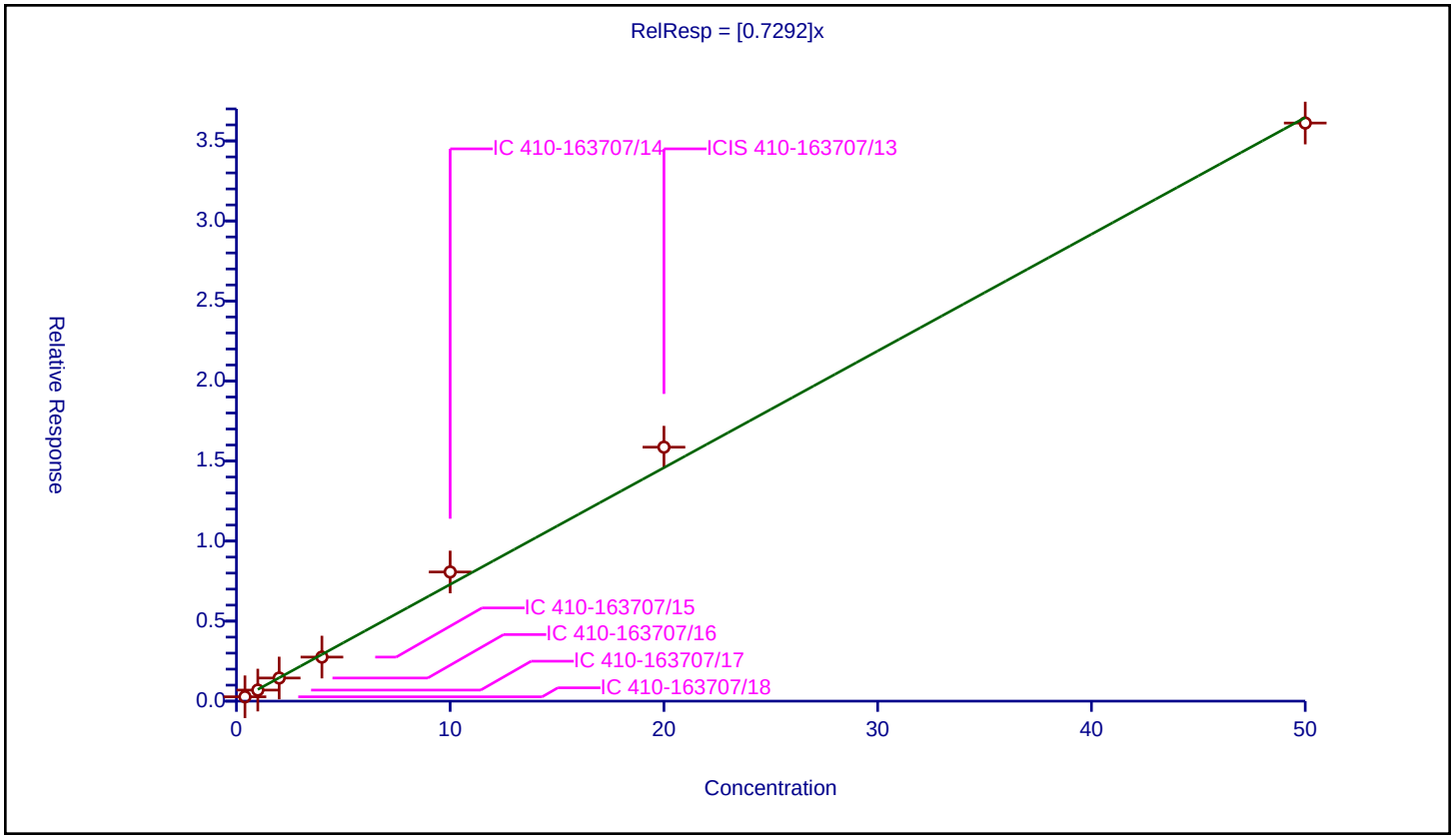
Curve Coefficients

Intercept:	0
Slope:	0.7292

Error Coefficients

Standard Error:	2960000
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.4	0.272262	10.0	1679409.0	0.680656	Y
2	IC 410-163707/17	1.0	0.690663	10.0	1845718.0	0.690663	Y
3	IC 410-163707/16	2.0	1.444587	10.0	1659651.0	0.722293	Y
4	IC 410-163707/15	4.0	2.753066	10.0	1654646.0	0.688267	Y
5	IC 410-163707/14	10.0	8.069589	10.0	1642811.0	0.806959	Y
6	ICIS 410-163707/13	20.0	15.865641	10.0	1640634.0	0.793282	Y
7	IC 410-163707/12	50.0	36.11606	10.0	1830649.0	0.722321	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

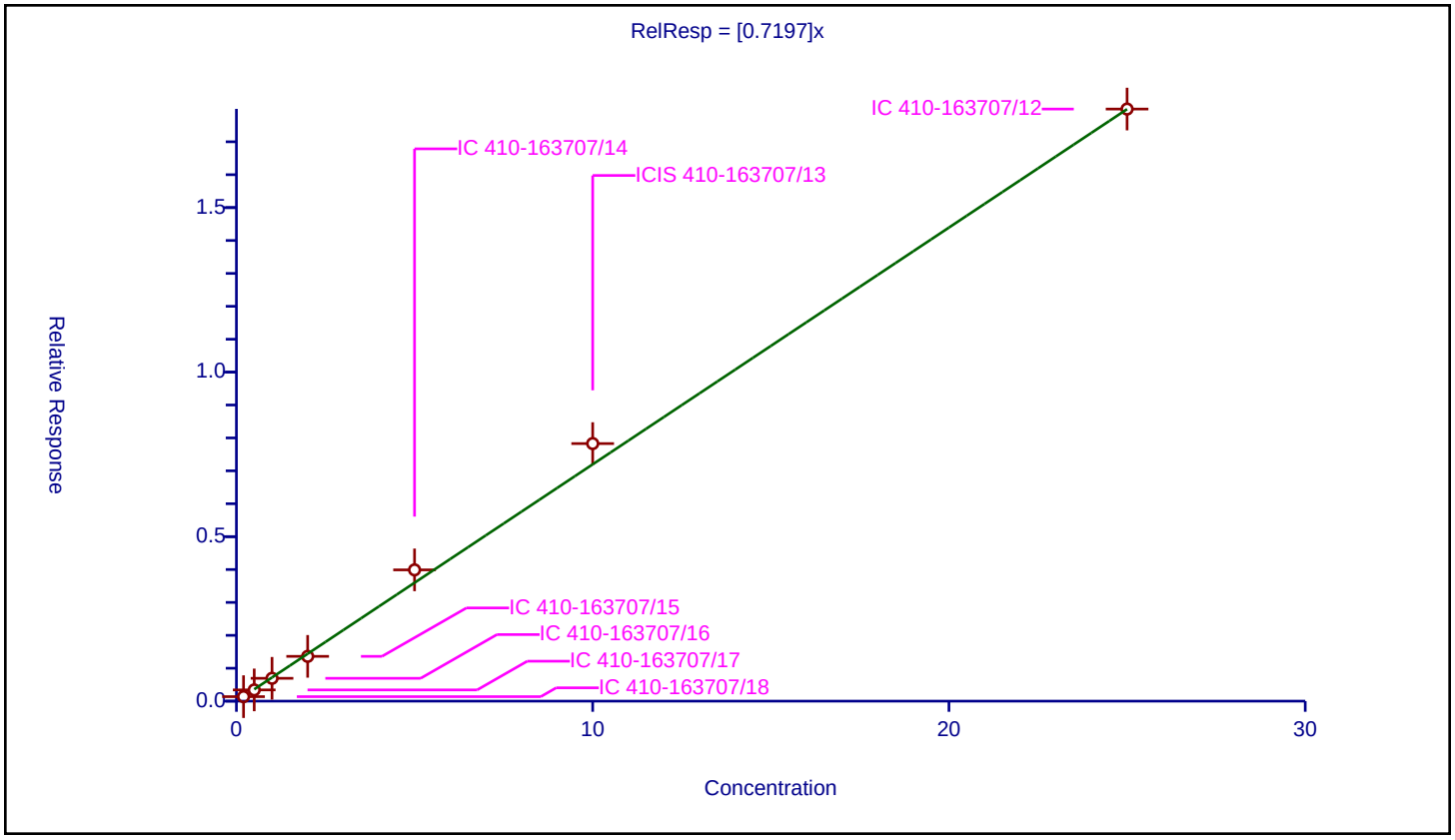
Curve Coefficients

Intercept:	0
Slope:	0.7197

Error Coefficients

Standard Error:	1470000
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.136024	10.0	1679409.0	0.68012	Y
2	IC 410-163707/17	0.5	0.341201	10.0	1845718.0	0.682401	Y
3	IC 410-163707/16	1.0	0.694146	10.0	1659651.0	0.694146	Y
4	IC 410-163707/15	2.0	1.360774	10.0	1654646.0	0.680387	Y
5	IC 410-163707/14	5.0	3.989777	10.0	1642811.0	0.797955	Y
6	ICIS 410-163707/13	10.0	7.828376	10.0	1640634.0	0.782838	Y
7	IC 410-163707/12	25.0	17.994793	10.0	1830649.0	0.719792	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

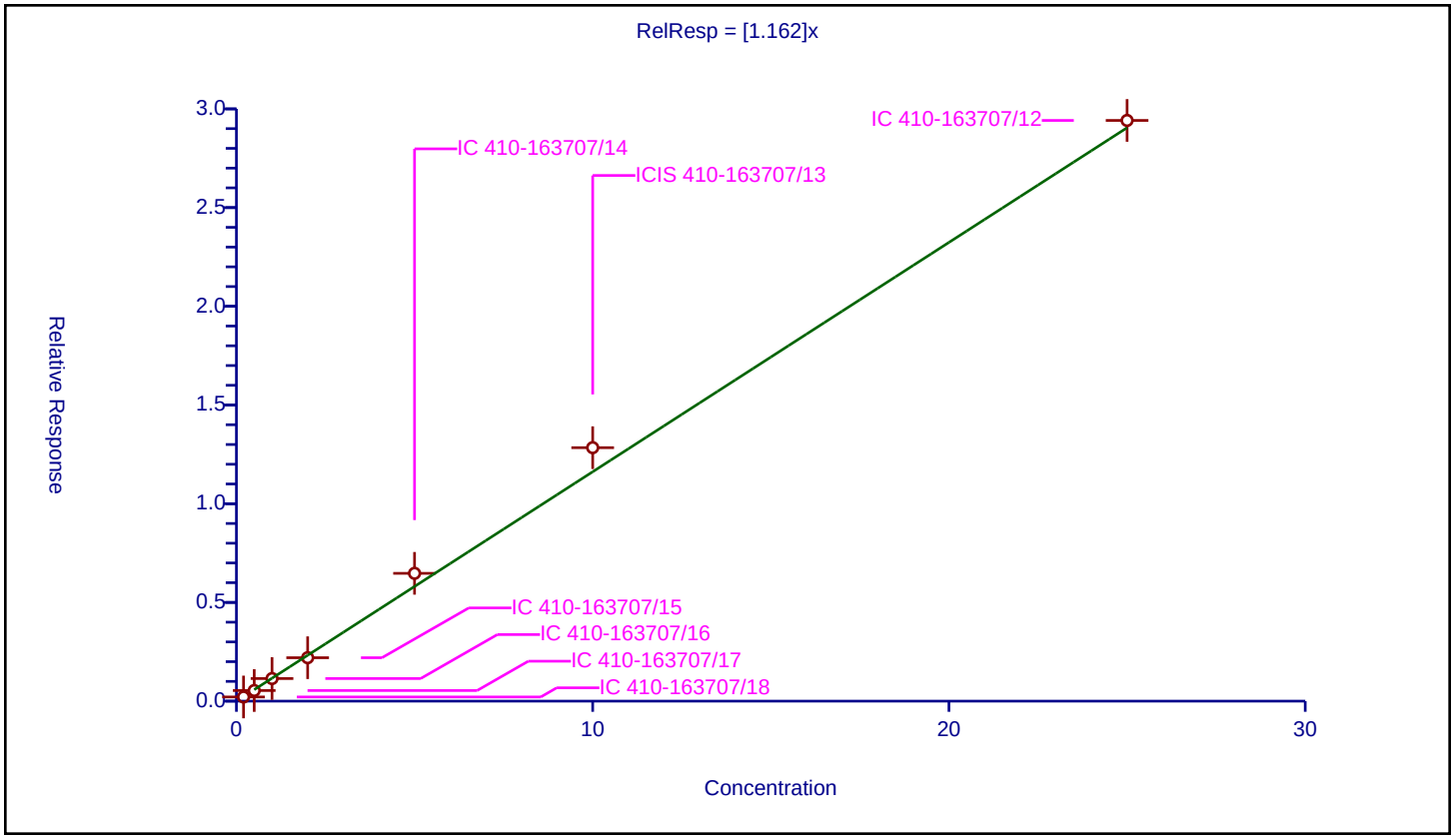
Curve Coefficients

Intercept:	0
Slope:	1.162

Error Coefficients

Standard Error:	2410000
Relative Standard Error:	8.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.211432	10.0	1679409.0	1.057158	Y
2	IC 410-163707/17	0.5	0.537867	10.0	1845718.0	1.075733	Y
3	IC 410-163707/16	1.0	1.144403	10.0	1659651.0	1.144403	Y
4	IC 410-163707/15	2.0	2.200205	10.0	1654646.0	1.100102	Y
5	IC 410-163707/14	5.0	6.474159	10.0	1642811.0	1.294832	Y
6	ICIS 410-163707/13	10.0	12.839372	10.0	1640634.0	1.283937	Y
7	IC 410-163707/12	25.0	29.414579	10.0	1830649.0	1.176583	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

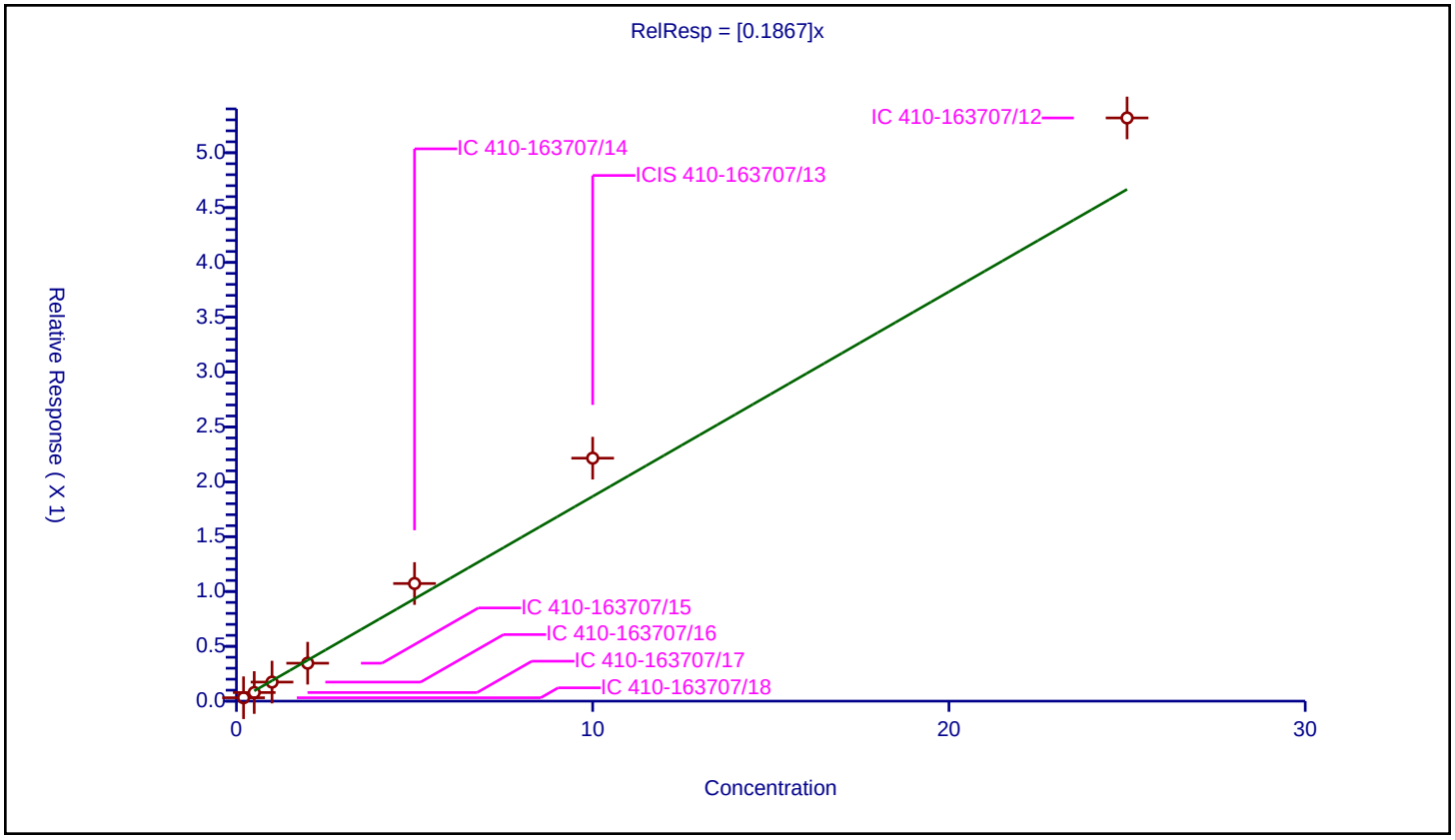
Curve Coefficients

Intercept:	0
Slope:	0.1867

Error Coefficients

Standard Error:	431000
Relative Standard Error:	15.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.030844	10.0	1679409.0	0.154221	Y
2	IC 410-163707/17	0.5	0.078484	10.0	1845718.0	0.156969	Y
3	IC 410-163707/16	1.0	0.173729	10.0	1659651.0	0.173729	Y
4	IC 410-163707/15	2.0	0.345989	10.0	1654646.0	0.172995	Y
5	IC 410-163707/14	5.0	1.072436	10.0	1642811.0	0.214487	Y
6	ICIS 410-163707/13	10.0	2.215247	10.0	1640634.0	0.221525	Y
7	IC 410-163707/12	25.0	5.317338	10.0	1830649.0	0.212694	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

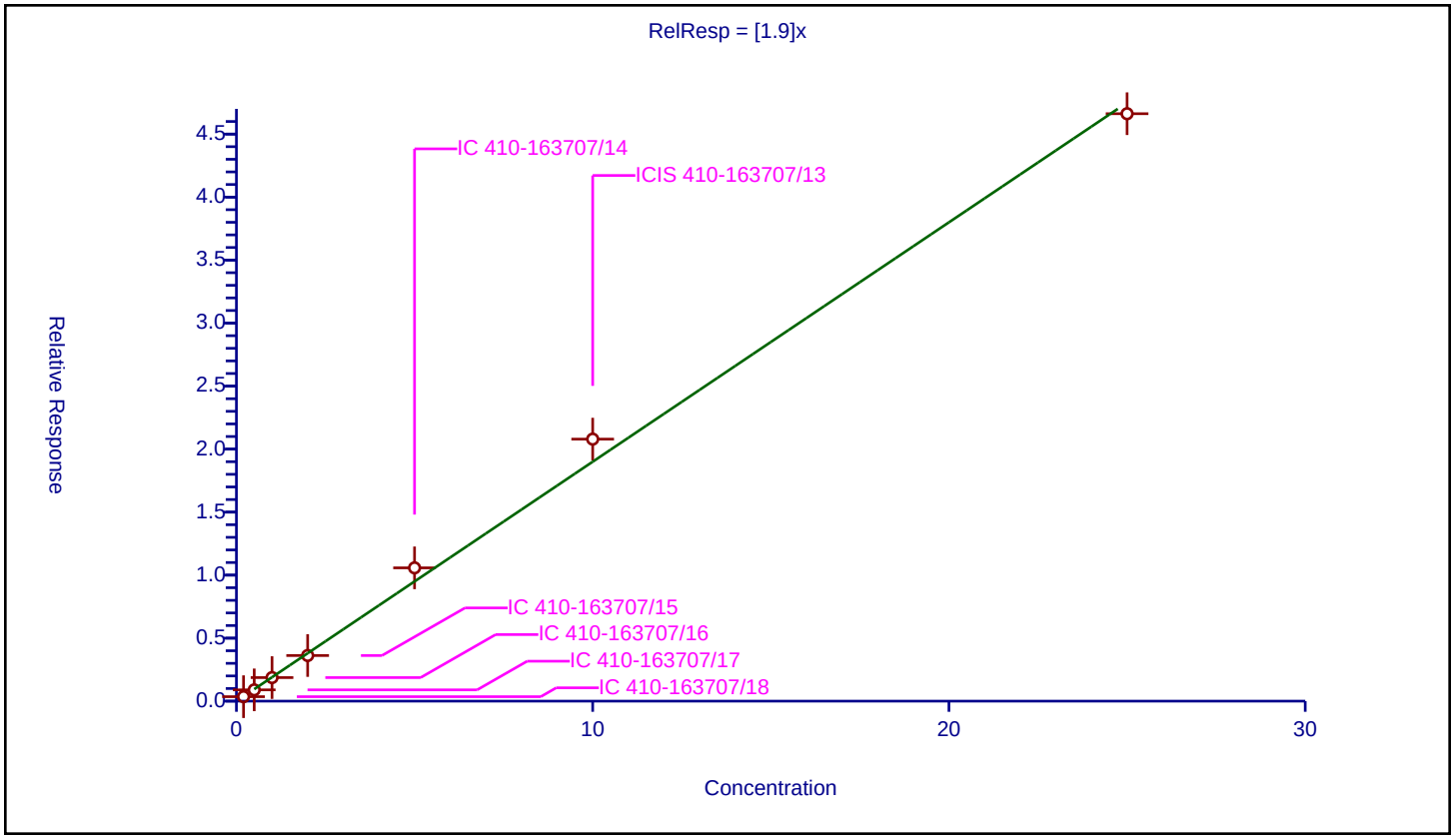
Curve Coefficients

Intercept:	0
Slope:	1.9

Error Coefficients

Standard Error:	3830000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.354148	10.0	1679409.0	1.770742	Y
2	IC 410-163707/17	0.5	0.894481	10.0	1845718.0	1.788962	Y
3	IC 410-163707/16	1.0	1.870188	10.0	1659651.0	1.870188	Y
4	IC 410-163707/15	2.0	3.619783	10.0	1654646.0	1.809892	Y
5	IC 410-163707/14	5.0	10.57706	10.0	1642811.0	2.115412	Y
6	ICIS 410-163707/13	10.0	20.793894	10.0	1640634.0	2.079389	Y
7	IC 410-163707/12	25.0	46.617167	10.0	1830649.0	1.864687	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

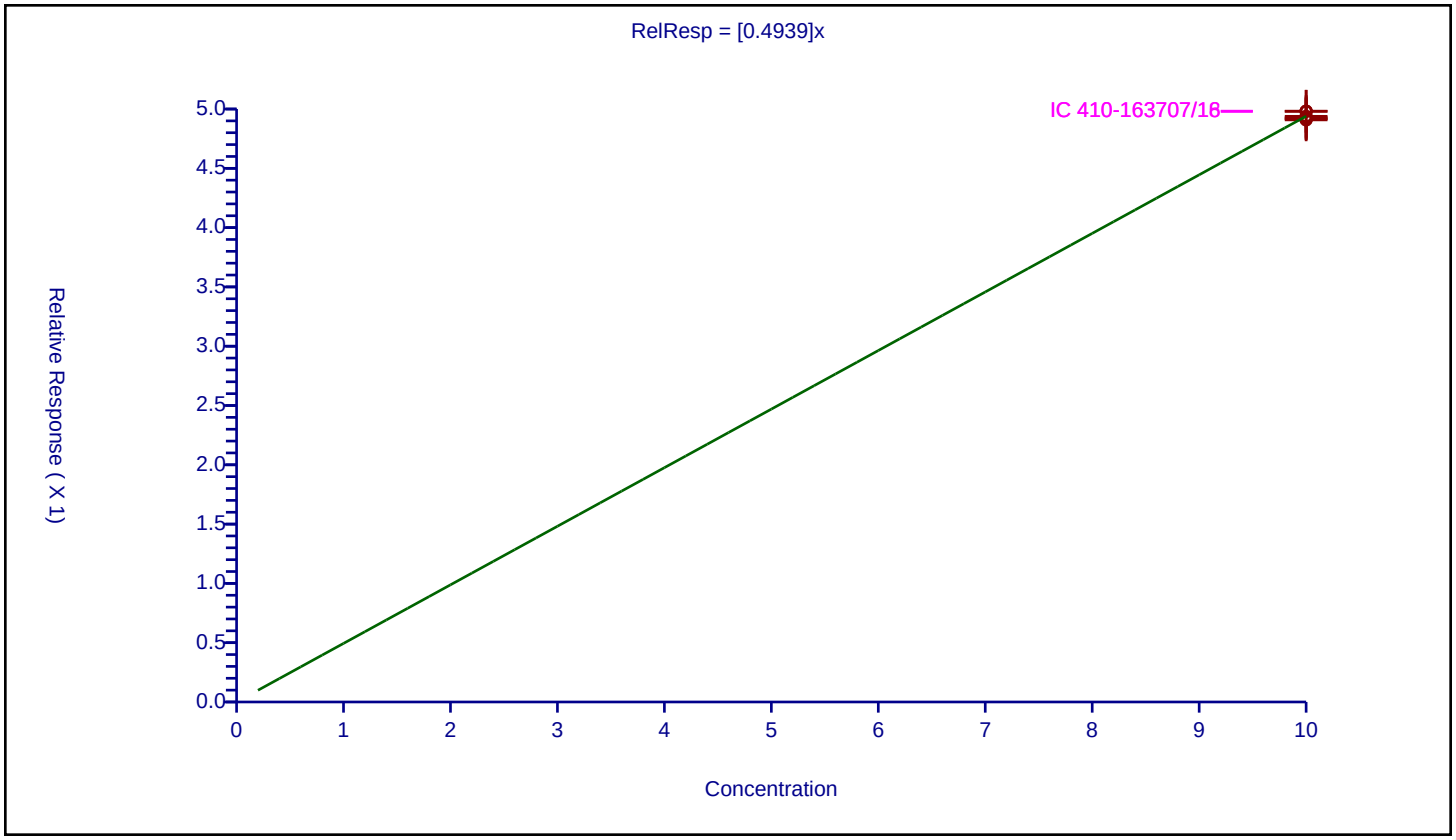
Curve Coefficients

Intercept:	0
Slope:	0.4939

Error Coefficients

Standard Error:	912000
Relative Standard Error:	0.6
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/12	10.0	4.919163	10.0	1830649.0	0.491916	Y
2	ICIS 410-163707/13	10.0	4.916368	10.0	1640634.0	0.491637	Y
3	IC 410-163707/14	10.0	4.90824	10.0	1642811.0	0.490824	Y
4	IC 410-163707/15	10.0	4.928668	10.0	1654646.0	0.492867	Y
5	IC 410-163707/16	10.0	4.982078	10.0	1659651.0	0.498208	Y
6	IC 410-163707/17	10.0	4.938344	10.0	1845718.0	0.493834	Y
7	IC 410-163707/18	10.0	4.980401	10.0	1679409.0	0.49804	Y



Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

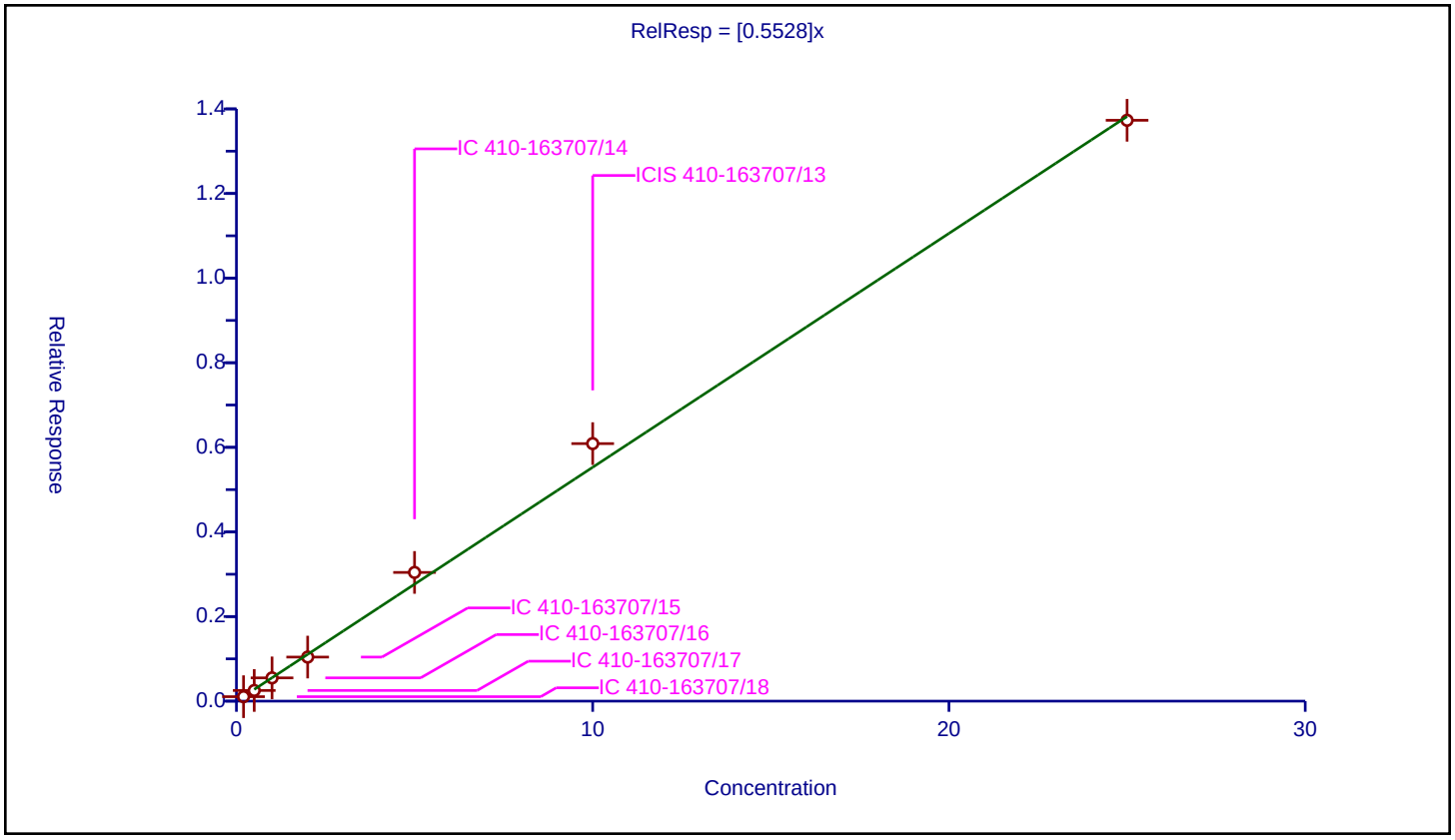
Curve Coefficients

Intercept:	0
Slope:	0.5528

Error Coefficients

Standard Error:	668000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.105689	10.0	1012314.0	0.528443	Y
2	IC 410-163707/17	0.5	0.252018	10.0	1102182.0	0.504037	Y
3	IC 410-163707/16	1.0	0.549972	10.0	987778.0	0.549972	Y
4	IC 410-163707/15	2.0	1.041481	10.0	984300.0	0.520741	Y
5	IC 410-163707/14	5.0	3.042725	10.0	963071.0	0.608545	Y
6	ICIS 410-163707/13	10.0	6.088123	10.0	963407.0	0.608812	Y
7	IC 410-163707/12	25.0	13.730272	10.0	1087615.0	0.549211	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

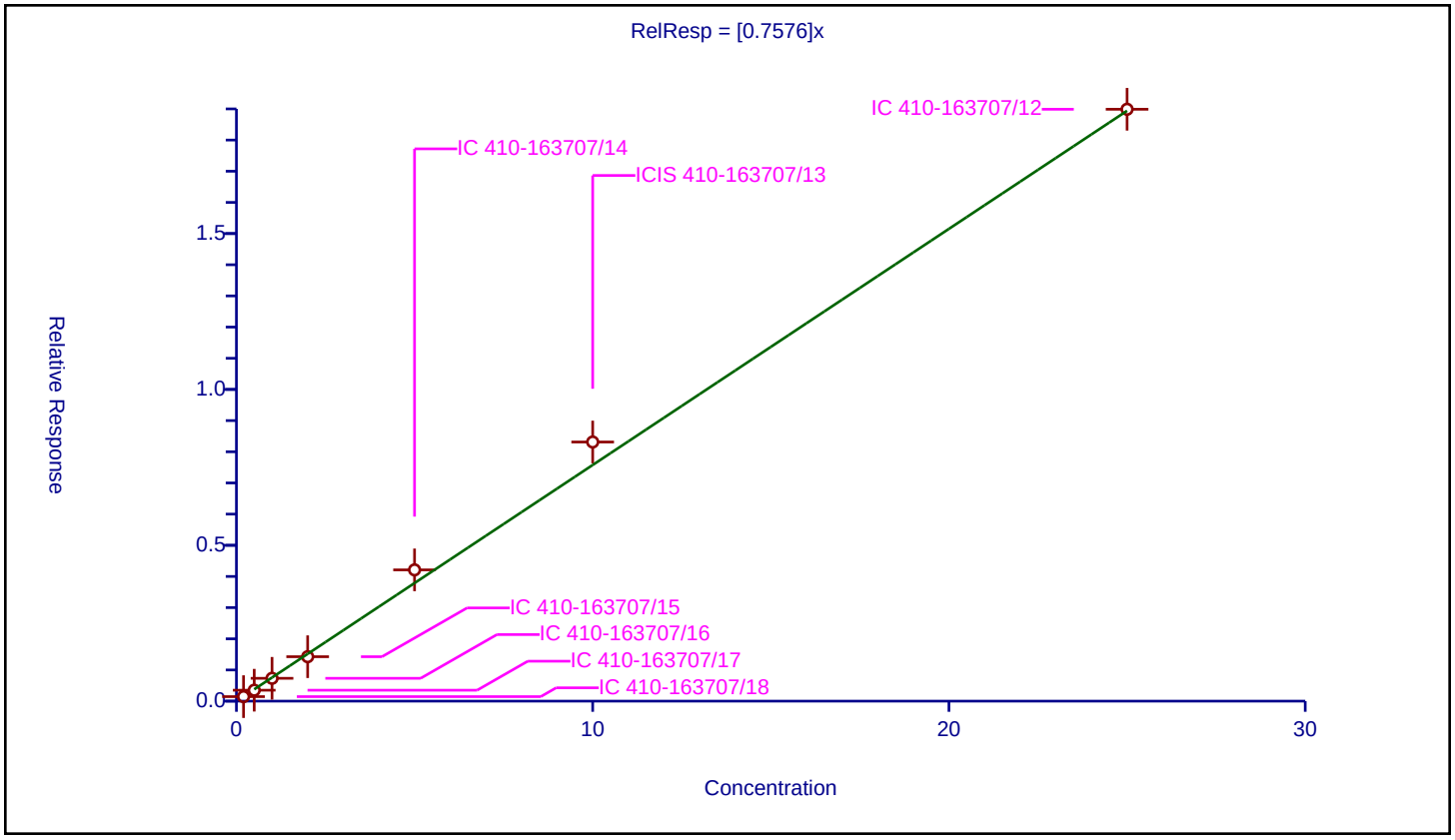
Curve Coefficients

Intercept:	0
Slope:	0.7576

Error Coefficients

Standard Error:	922000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.144787	10.0	1012314.0	0.723935	Y
2	IC 410-163707/17	0.5	0.350369	10.0	1102182.0	0.700737	Y
3	IC 410-163707/16	1.0	0.732533	10.0	987778.0	0.732533	Y
4	IC 410-163707/15	2.0	1.425439	10.0	984300.0	0.71272	Y
5	IC 410-163707/14	5.0	4.211309	10.0	963071.0	0.842262	Y
6	ICIS 410-163707/13	10.0	8.313433	10.0	963407.0	0.831343	Y
7	IC 410-163707/12	25.0	18.988245	10.0	1087615.0	0.75953	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

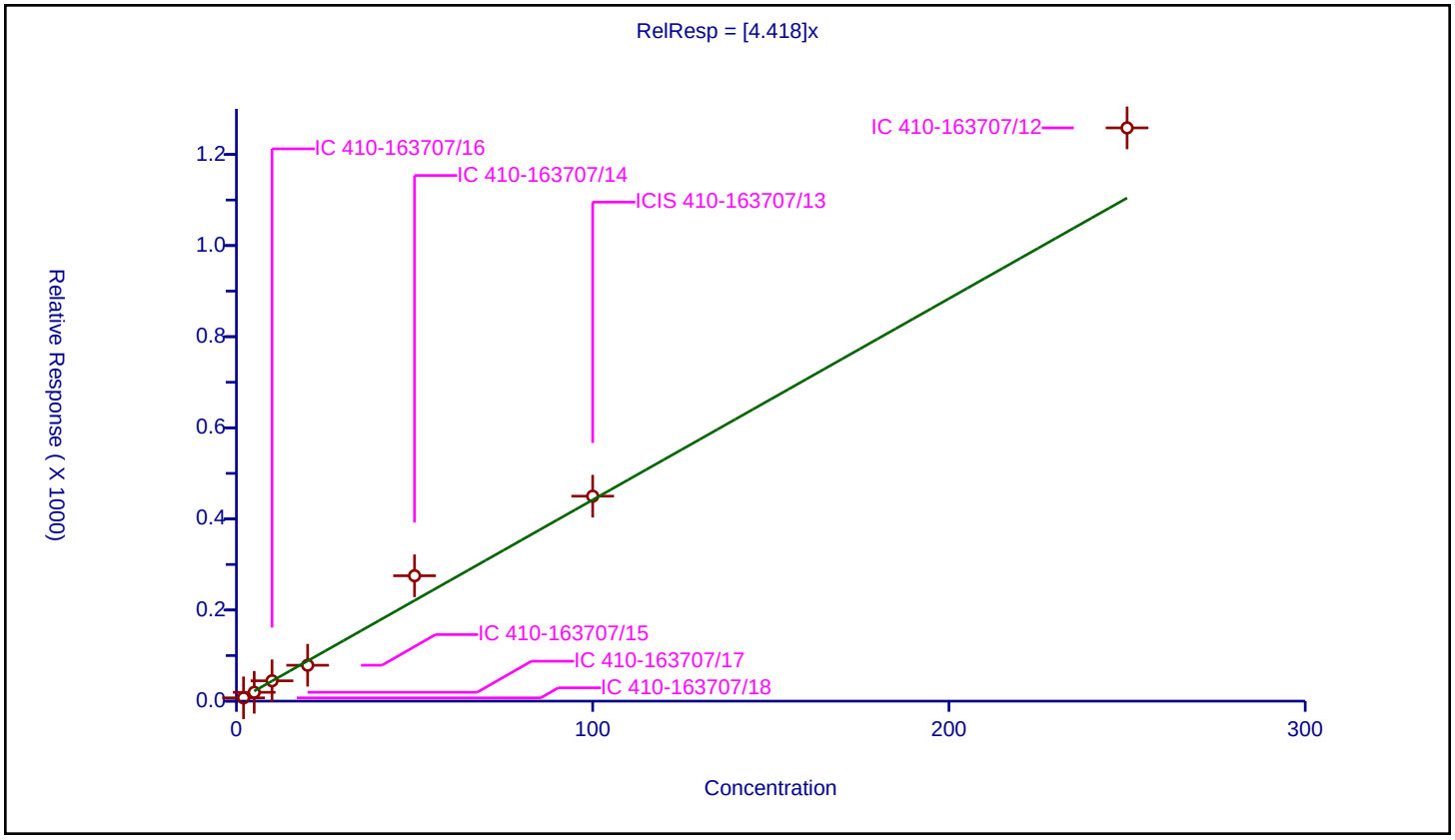
Curve Coefficients

Intercept:	0
Slope:	4.418

Error Coefficients

Standard Error:	1720000
Relative Standard Error:	15.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	2.0	7.212025	50.0	162132.0	3.606012	Y
2	IC 410-163707/17	5.0	19.386601	50.0	162651.0	3.87732	Y
3	IC 410-163707/16	10.0	44.651044	50.0	143084.0	4.465104	Y
4	IC 410-163707/15	20.0	78.790446	50.0	162903.0	3.939522	Y
5	IC 410-163707/14	50.0	275.233666	50.0	134380.0	5.504673	Y
6	ICIS 410-163707/13	100.0	449.88711	50.0	165205.0	4.498871	Y
7	IC 410-163707/12	250.0	1258.297519	50.0	153335.0	5.03319	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

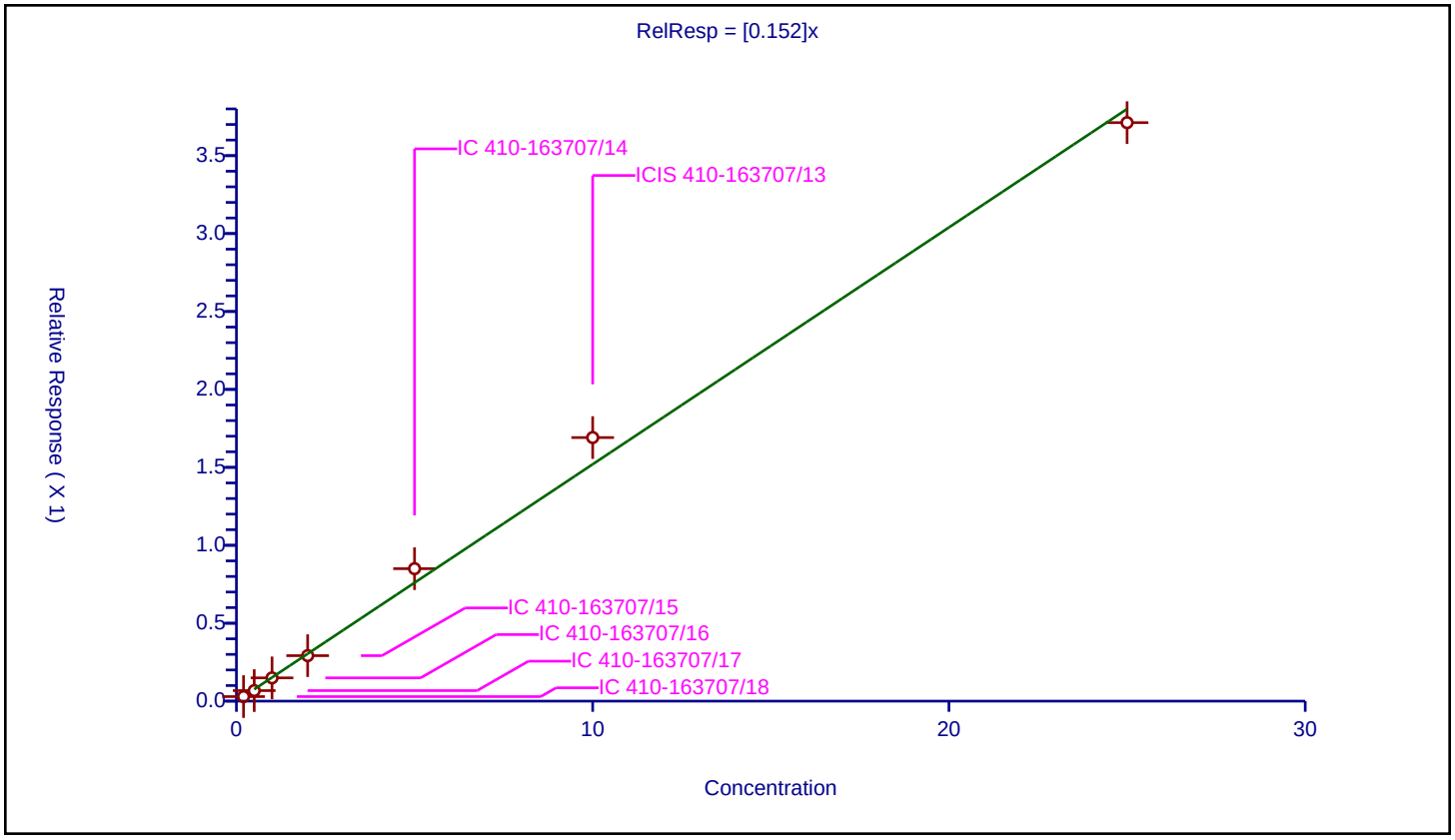
Curve Coefficients

Intercept:	0
Slope:	0.152

Error Coefficients

Standard Error:	181000
Relative Standard Error:	8.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.029181	10.0	1012314.0	0.145903	Y
2	IC 410-163707/17	0.5	0.067584	10.0	1102182.0	0.135168	Y
3	IC 410-163707/16	1.0	0.149285	10.0	987778.0	0.149285	Y
4	IC 410-163707/15	2.0	0.291822	10.0	984300.0	0.145911	Y
5	IC 410-163707/14	5.0	0.849958	10.0	963071.0	0.169992	Y
6	ICIS 410-163707/13	10.0	1.691144	10.0	963407.0	0.169114	Y
7	IC 410-163707/12	25.0	3.711773	10.0	1087615.0	0.148471	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

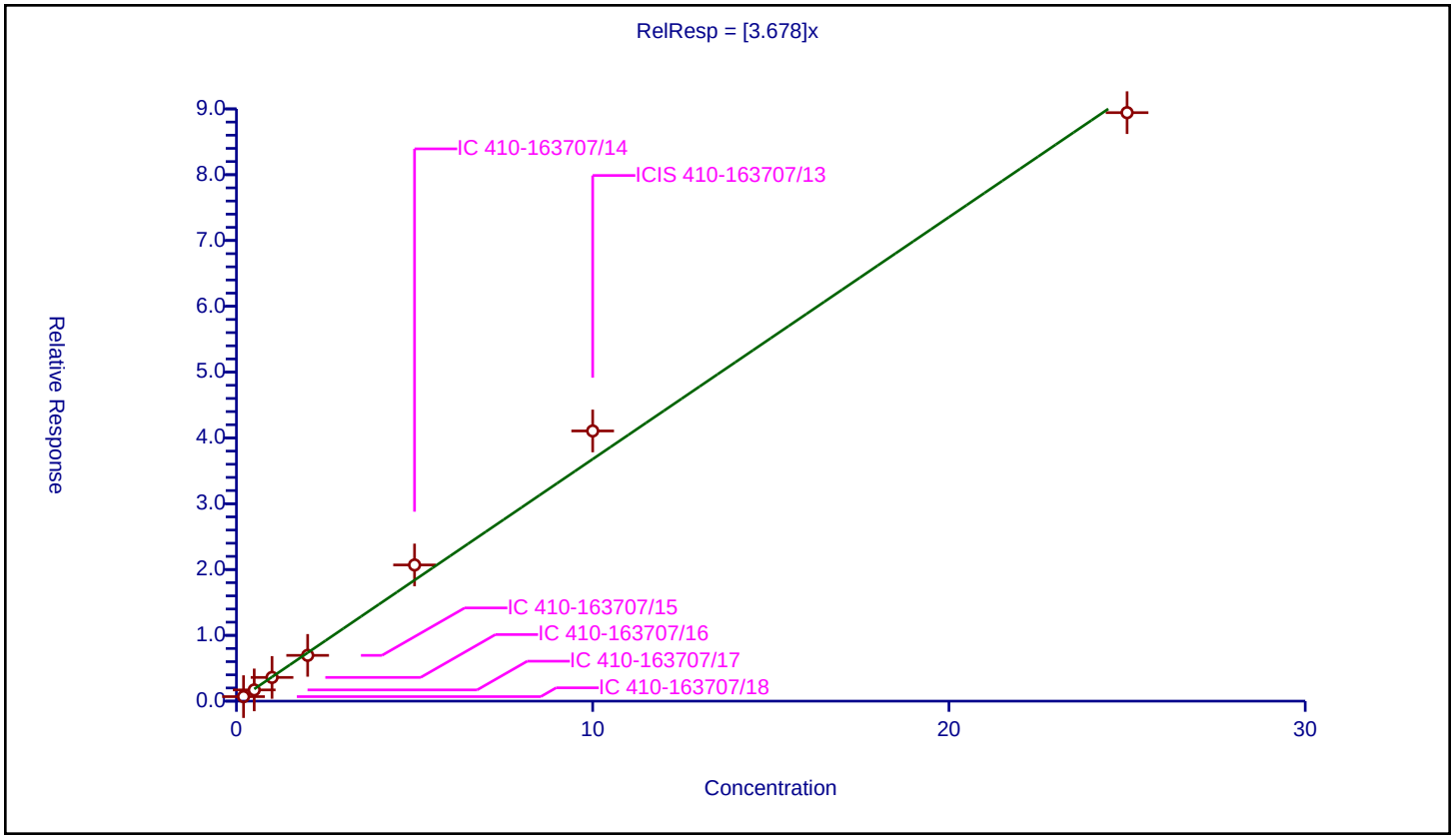
Curve Coefficients

Intercept:	0
Slope:	3.678

Error Coefficients

Standard Error:	4380000
Relative Standard Error:	8.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.684827	10.0	1012314.0	3.424135	Y
2	IC 410-163707/17	0.5	1.707876	10.0	1102182.0	3.415752	Y
3	IC 410-163707/16	1.0	3.60255	10.0	987778.0	3.60255	Y
4	IC 410-163707/15	2.0	6.95669	10.0	984300.0	3.478345	Y
5	IC 410-163707/14	5.0	20.695328	10.0	963071.0	4.139066	Y
6	ICIS 410-163707/13	10.0	41.058618	10.0	963407.0	4.105862	Y
7	IC 410-163707/12	25.0	89.428208	10.0	1087615.0	3.577128	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

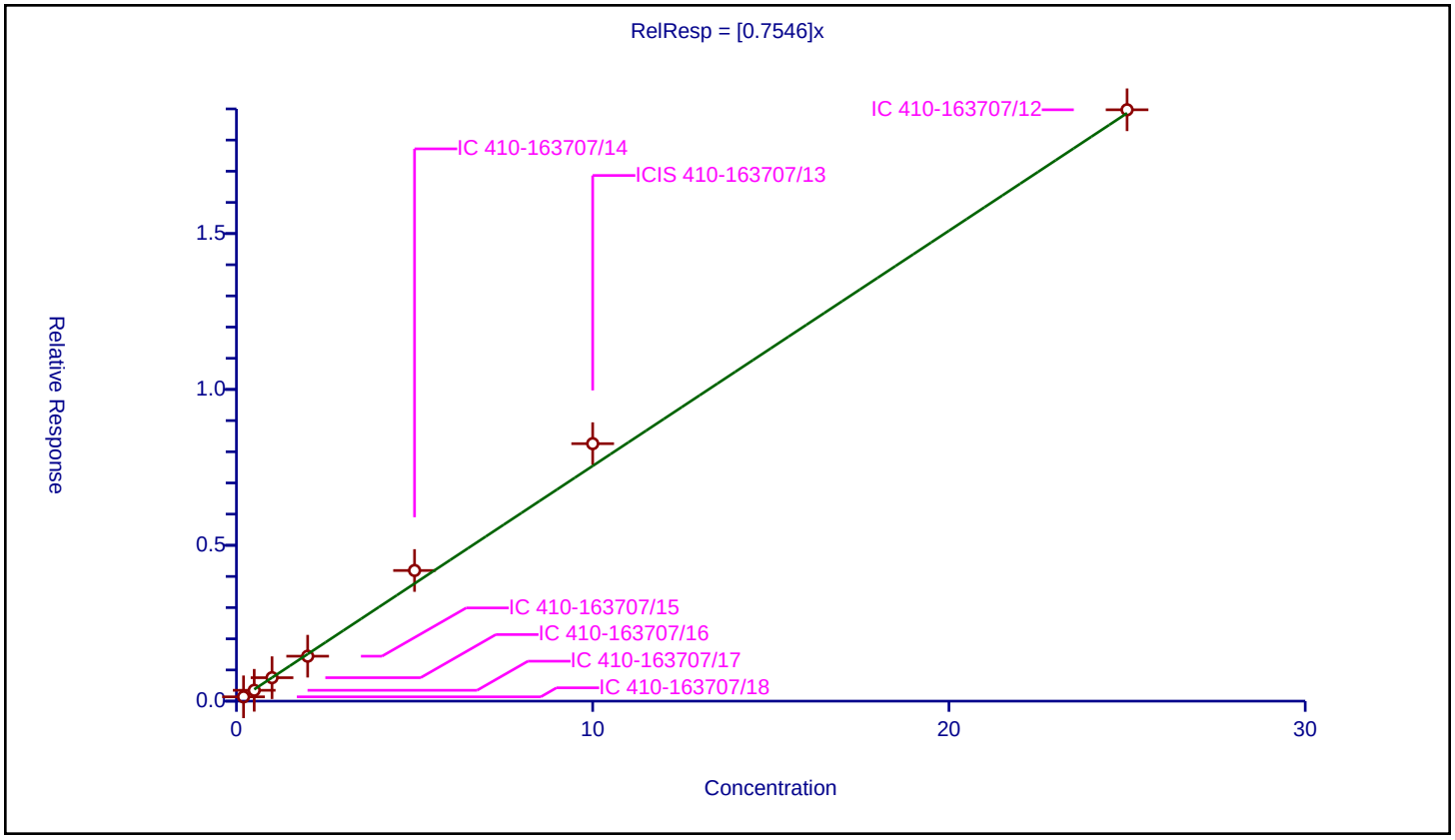
Curve Coefficients

Intercept:	0
Slope:	0.7546

Error Coefficients

Standard Error:	920000
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 410-163707/18	0.2	0.137714	10.0	1012314.0	0.688571	Y
2	IC 410-163707/17	0.5	0.348246	10.0	1102182.0	0.696491	Y
3	IC 410-163707/16	1.0	0.75273	10.0	987778.0	0.75273	Y
4	IC 410-163707/15	2.0	1.441908	10.0	984300.0	0.720954	Y
5	IC 410-163707/14	5.0	4.191394	10.0	963071.0	0.838279	Y
6	ICIS 410-163707/13	10.0	8.260673	10.0	963407.0	0.826067	Y
7	IC 410-163707/12	25.0	18.971447	10.0	1087615.0	0.758858	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

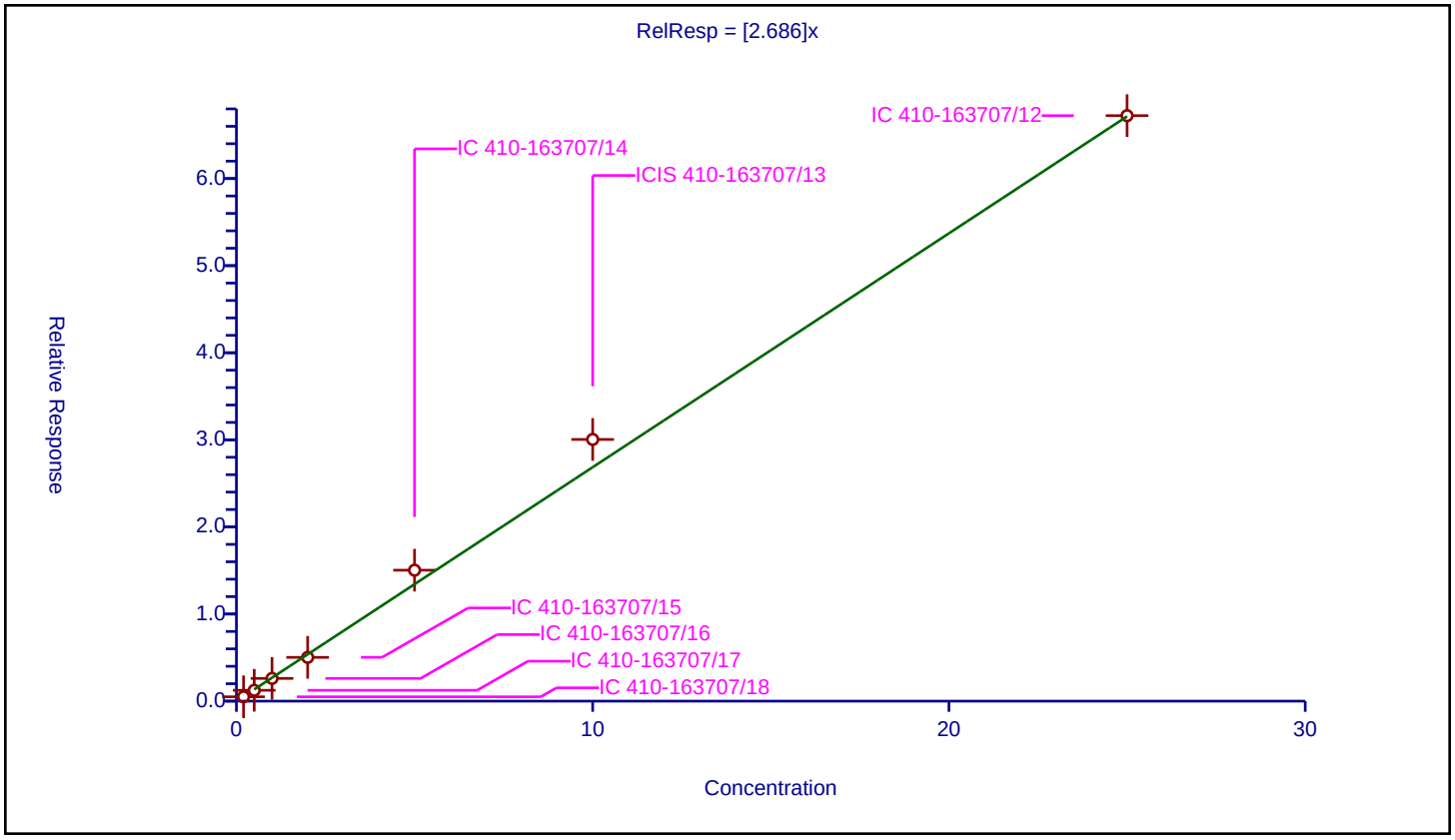
Curve Coefficients

Intercept:	0
Slope:	2.686

Error Coefficients

Standard Error:	3270000
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 410-163707/18	0.2	0.497533	10.0	1012314.0	2.487667	Y
2	IC 410-163707/17	0.5	1.244622	10.0	1102182.0	2.489244	Y
3	IC 410-163707/16	1.0	2.609098	10.0	987778.0	2.609098	Y
4	IC 410-163707/15	2.0	5.025571	10.0	984300.0	2.512786	Y
5	IC 410-163707/14	5.0	15.035423	10.0	963071.0	3.007085	Y
6	ICIS 410-163707/13	10.0	30.045827	10.0	963407.0	3.004583	Y
7	IC 410-163707/12	25.0	67.223126	10.0	1087615.0	2.688925	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

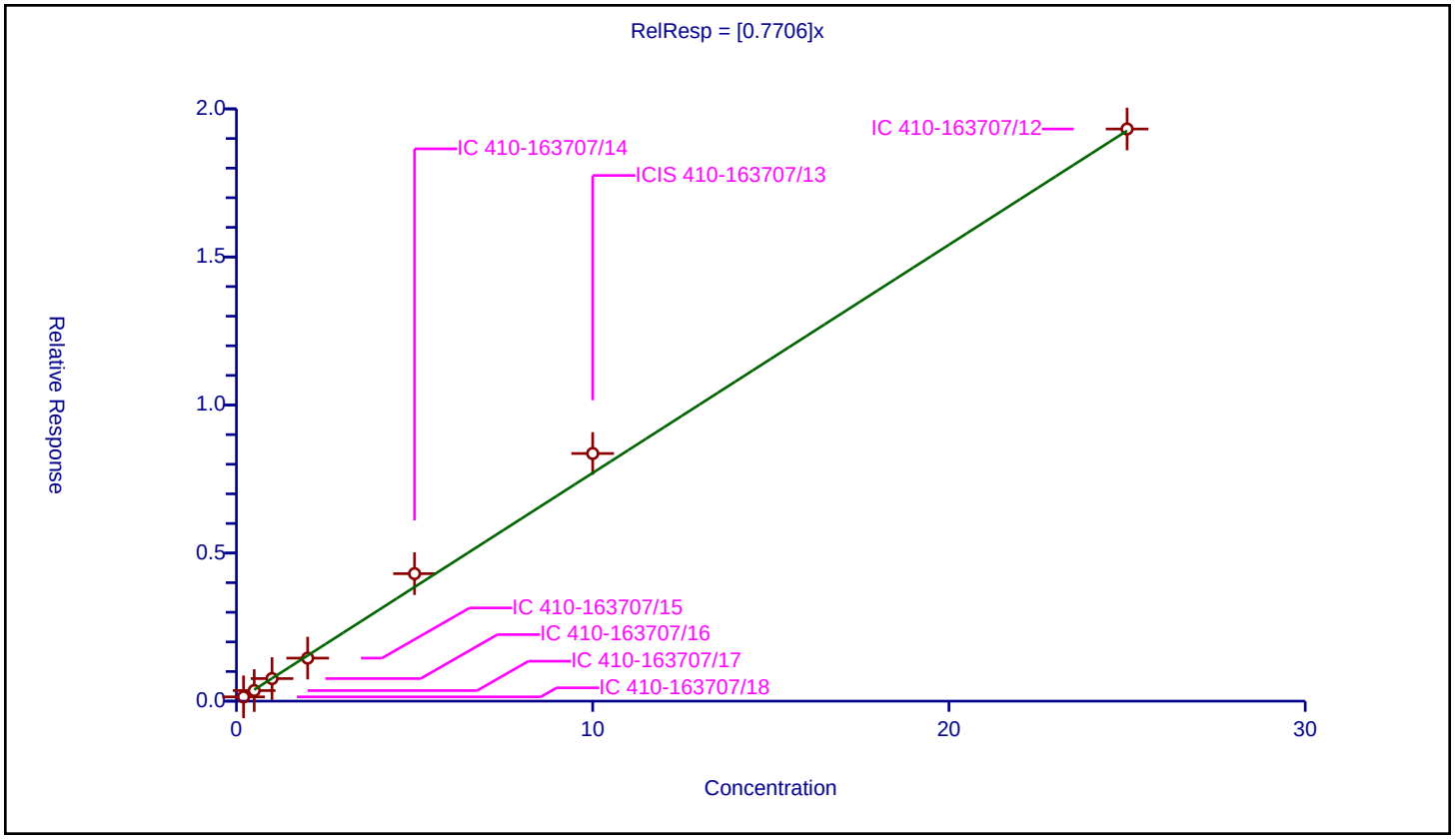
Curve Coefficients

Intercept:	0
Slope:	0.7706

Error Coefficients

Standard Error:	937000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.144125	10.0	1012314.0	0.720626	Y
2	IC 410-163707/17	0.5	0.357201	10.0	1102182.0	0.714401	Y
3	IC 410-163707/16	1.0	0.762479	10.0	987778.0	0.762479	Y
4	IC 410-163707/15	2.0	1.452708	10.0	984300.0	0.726354	Y
5	IC 410-163707/14	5.0	4.305103	10.0	963071.0	0.861021	Y
6	ICIS 410-163707/13	10.0	8.363174	10.0	963407.0	0.836317	Y
7	IC 410-163707/12	25.0	19.320945	10.0	1087615.0	0.772838	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

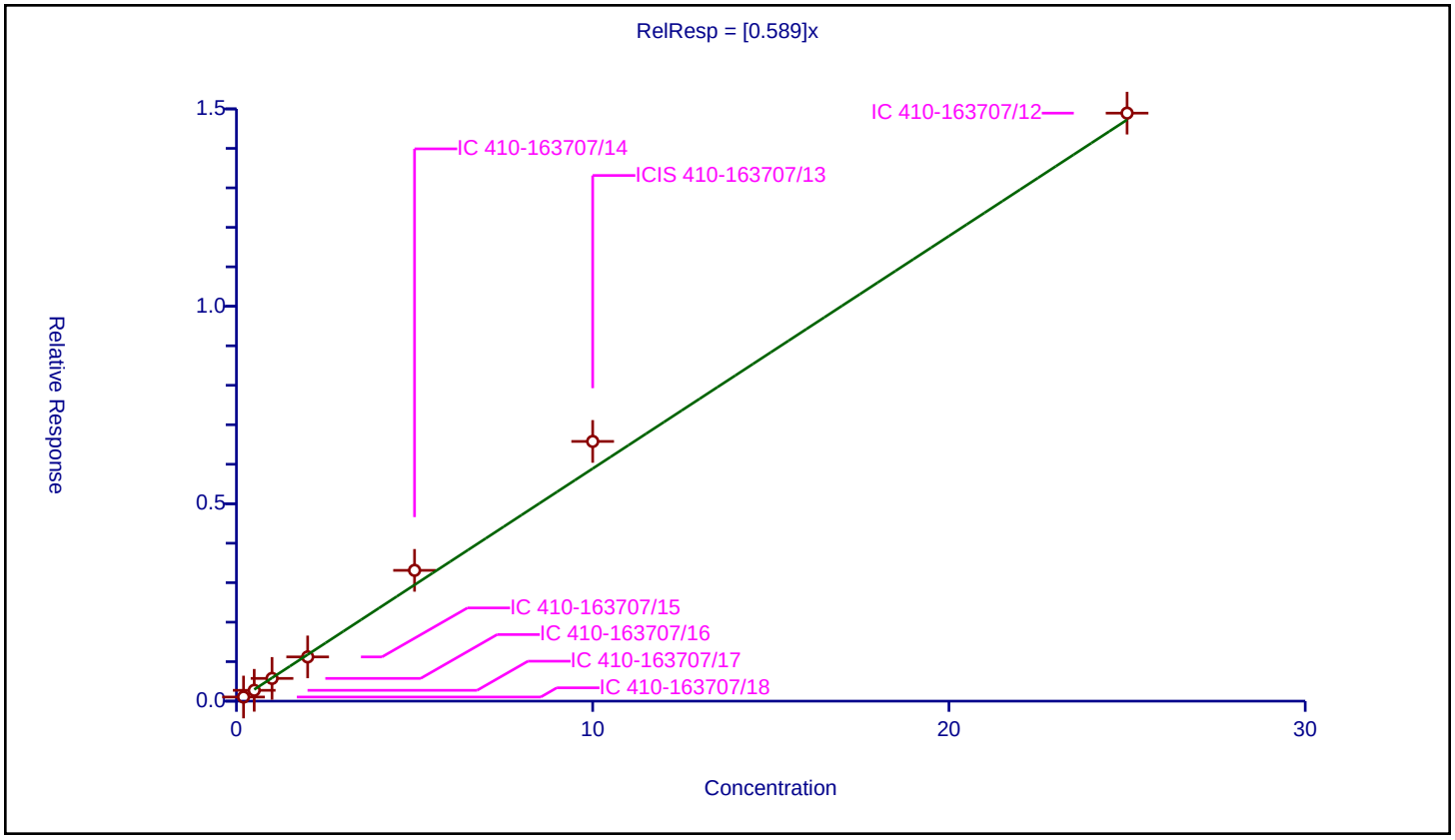
Curve Coefficients

Intercept:	0
Slope:	0.589

Error Coefficients

Standard Error:	724000
Relative Standard Error:	9.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.104394	10.0	1012314.0	0.521972	Y
2	IC 410-163707/17	0.5	0.274546	10.0	1102182.0	0.549093	Y
3	IC 410-163707/16	1.0	0.575716	10.0	987778.0	0.575716	Y
4	IC 410-163707/15	2.0	1.120207	10.0	984300.0	0.560104	Y
5	IC 410-163707/14	5.0	3.312715	10.0	963071.0	0.662543	Y
6	ICIS 410-163707/13	10.0	6.577833	10.0	963407.0	0.657783	Y
7	IC 410-163707/12	25.0	14.892798	10.0	1087615.0	0.595712	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

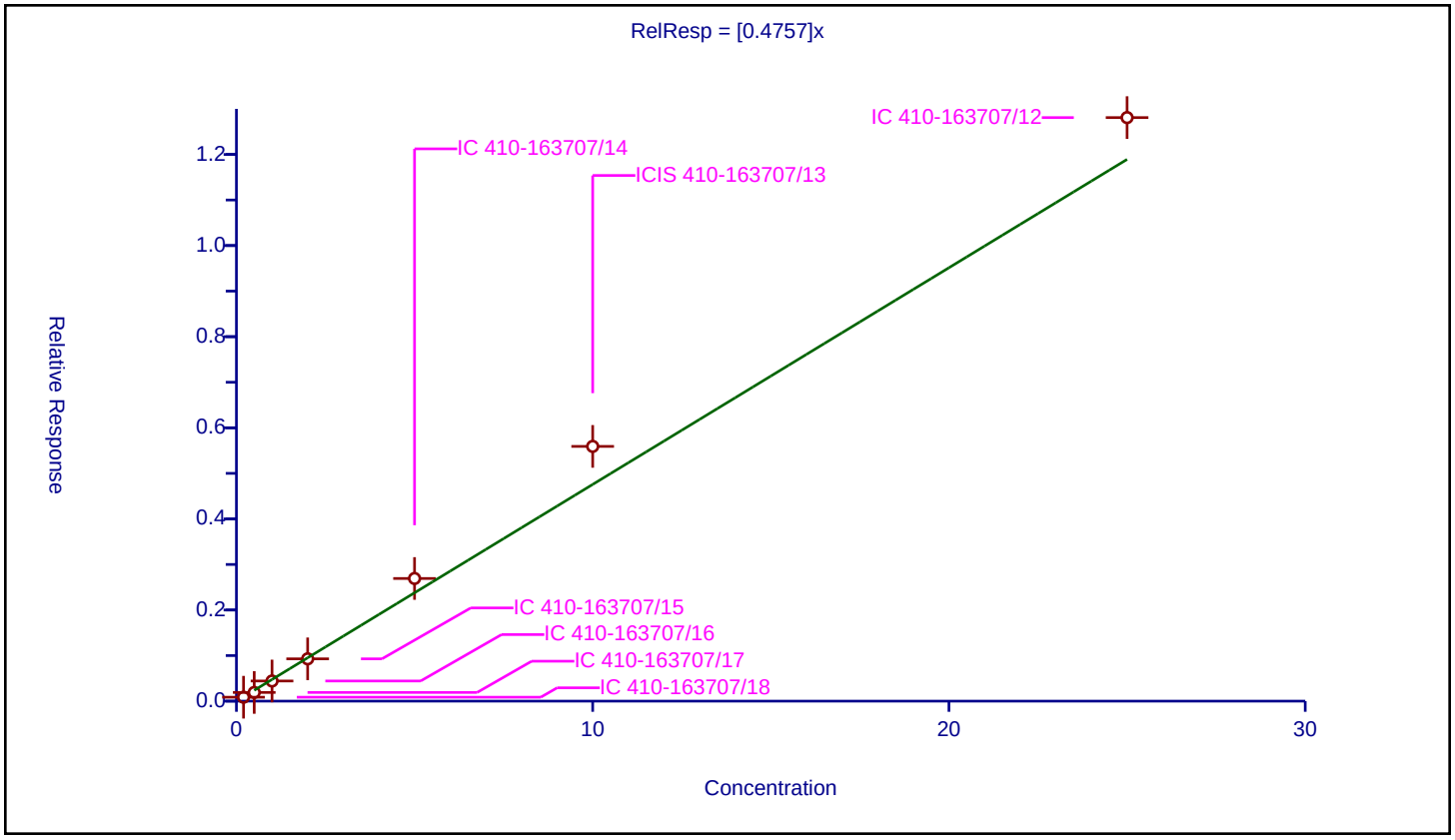
Curve Coefficients

Intercept:	0
Slope:	0.4757

Error Coefficients

Standard Error:	620000
Relative Standard Error:	13.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.086357	10.0	1012314.0	0.431783	Y
2	IC 410-163707/17	0.5	0.190622	10.0	1102182.0	0.381244	Y
3	IC 410-163707/16	1.0	0.442529	10.0	987778.0	0.442529	Y
4	IC 410-163707/15	2.0	0.928386	10.0	984300.0	0.464193	Y
5	IC 410-163707/14	5.0	2.692314	10.0	963071.0	0.538463	Y
6	ICIS 410-163707/13	10.0	5.591417	10.0	963407.0	0.559142	Y
7	IC 410-163707/12	25.0	12.808751	10.0	1087615.0	0.51235	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

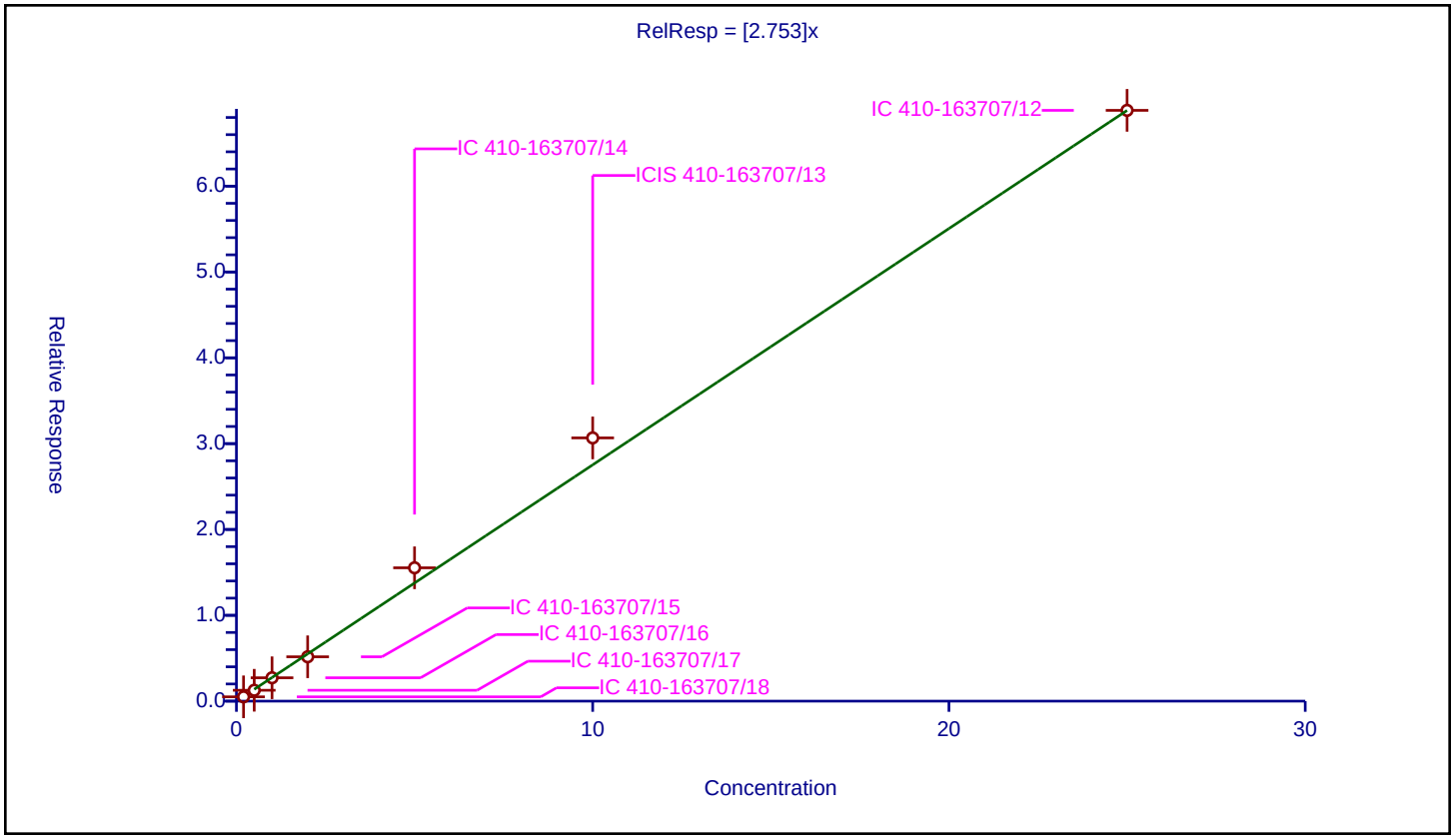
Curve Coefficients

Intercept:	0
Slope:	2.753

Error Coefficients

Standard Error:	3350000
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 410-163707/18	0.2	0.500685	10.0	1012314.0	2.503423	Y
2	IC 410-163707/17	0.5	1.266578	10.0	1102182.0	2.533157	Y
3	IC 410-163707/16	1.0	2.72217	10.0	987778.0	2.72217	Y
4	IC 410-163707/15	2.0	5.167469	10.0	984300.0	2.583735	Y
5	IC 410-163707/14	5.0	15.536342	10.0	963071.0	3.107268	Y
6	ICIS 410-163707/13	10.0	30.668907	10.0	963407.0	3.066891	Y
7	IC 410-163707/12	25.0	68.830165	10.0	1087615.0	2.753207	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

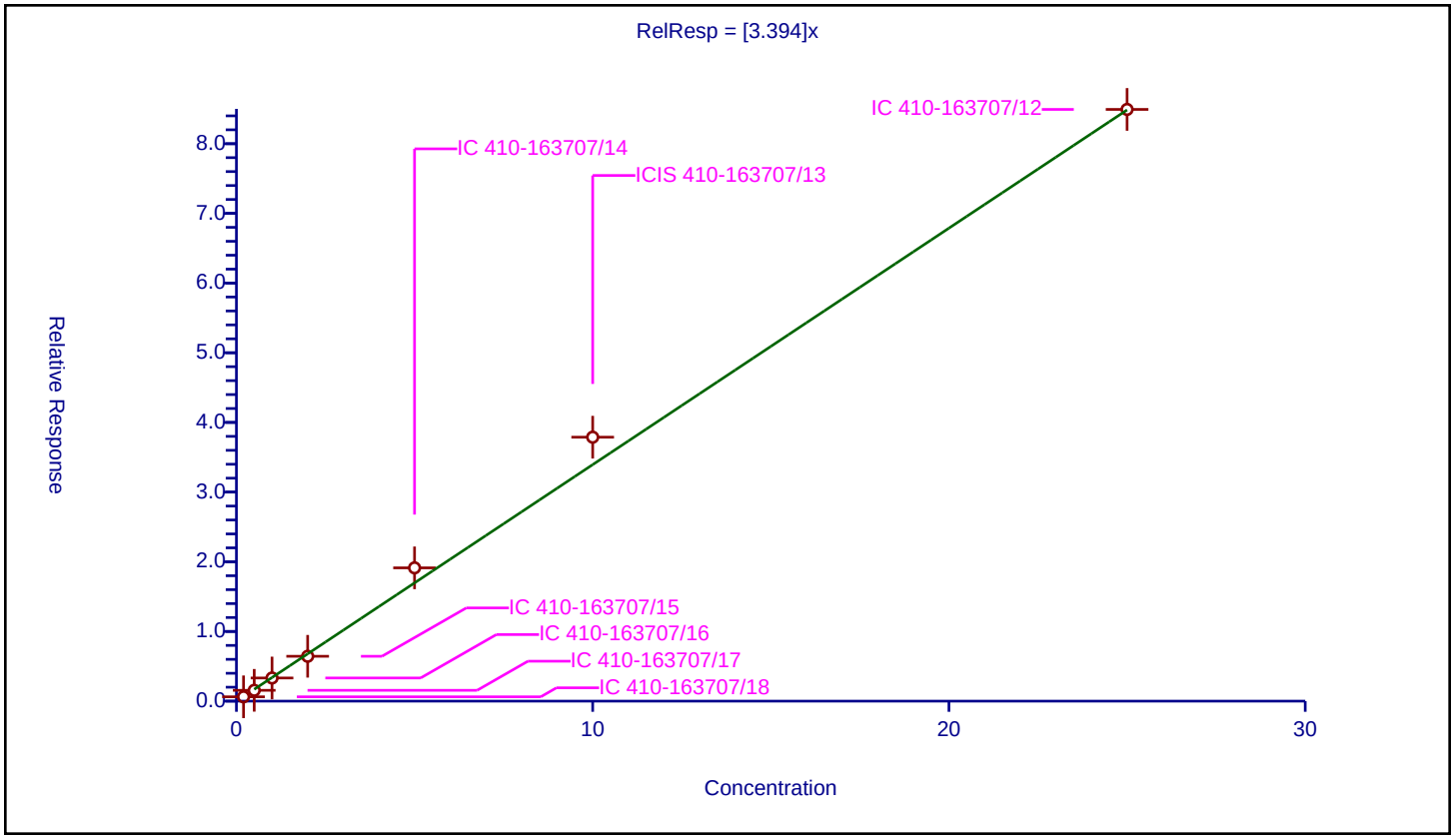
Curve Coefficients

Intercept:	0
Slope:	3.394

Error Coefficients

Standard Error:	4130000
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 410-163707/18	0.2	0.619768	10.0	1012314.0	3.098841	Y
2	IC 410-163707/17	0.5	1.553364	10.0	1102182.0	3.106728	Y
3	IC 410-163707/16	1.0	3.322953	10.0	987778.0	3.322953	Y
4	IC 410-163707/15	2.0	6.437753	10.0	984300.0	3.218876	Y
5	IC 410-163707/14	5.0	19.12941	10.0	963071.0	3.825882	Y
6	ICIS 410-163707/13	10.0	37.881799	10.0	963407.0	3.78818	Y
7	IC 410-163707/12	25.0	84.922505	10.0	1087615.0	3.3969	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

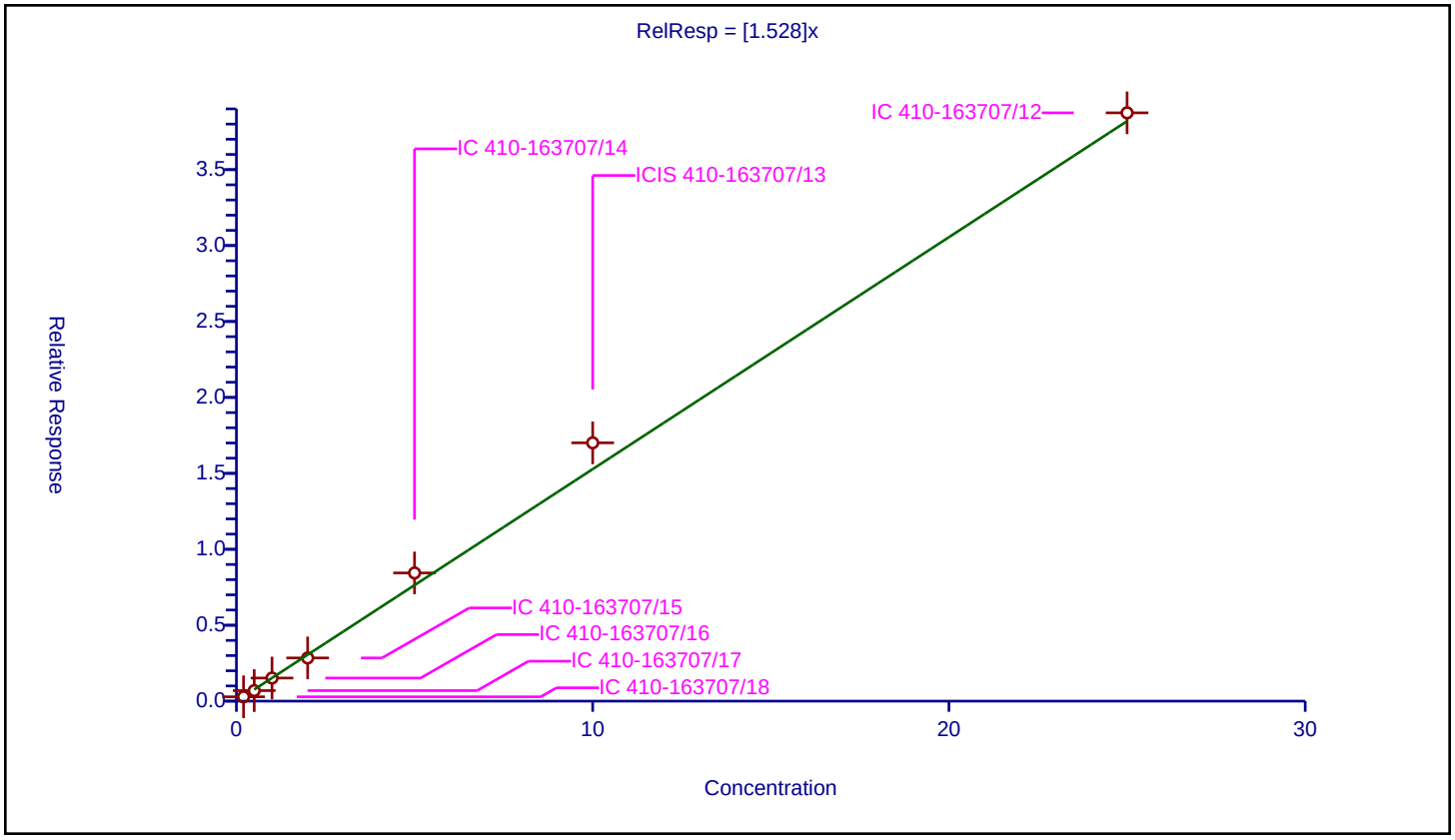
Curve Coefficients

Intercept:	0
Slope:	1.528

Error Coefficients

Standard Error:	1880000
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 410-163707/18	0.2	0.284645	10.0	1012314.0	1.423224	Y
2	IC 410-163707/17	0.5	0.693851	10.0	1102182.0	1.387702	Y
3	IC 410-163707/16	1.0	1.52181	10.0	987778.0	1.52181	Y
4	IC 410-163707/15	2.0	2.84397	10.0	984300.0	1.421985	Y
5	IC 410-163707/14	5.0	8.441112	10.0	963071.0	1.688222	Y
6	ICIS 410-163707/13	10.0	17.010381	10.0	963407.0	1.701038	Y
7	IC 410-163707/12	25.0	38.740942	10.0	1087615.0	1.549638	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

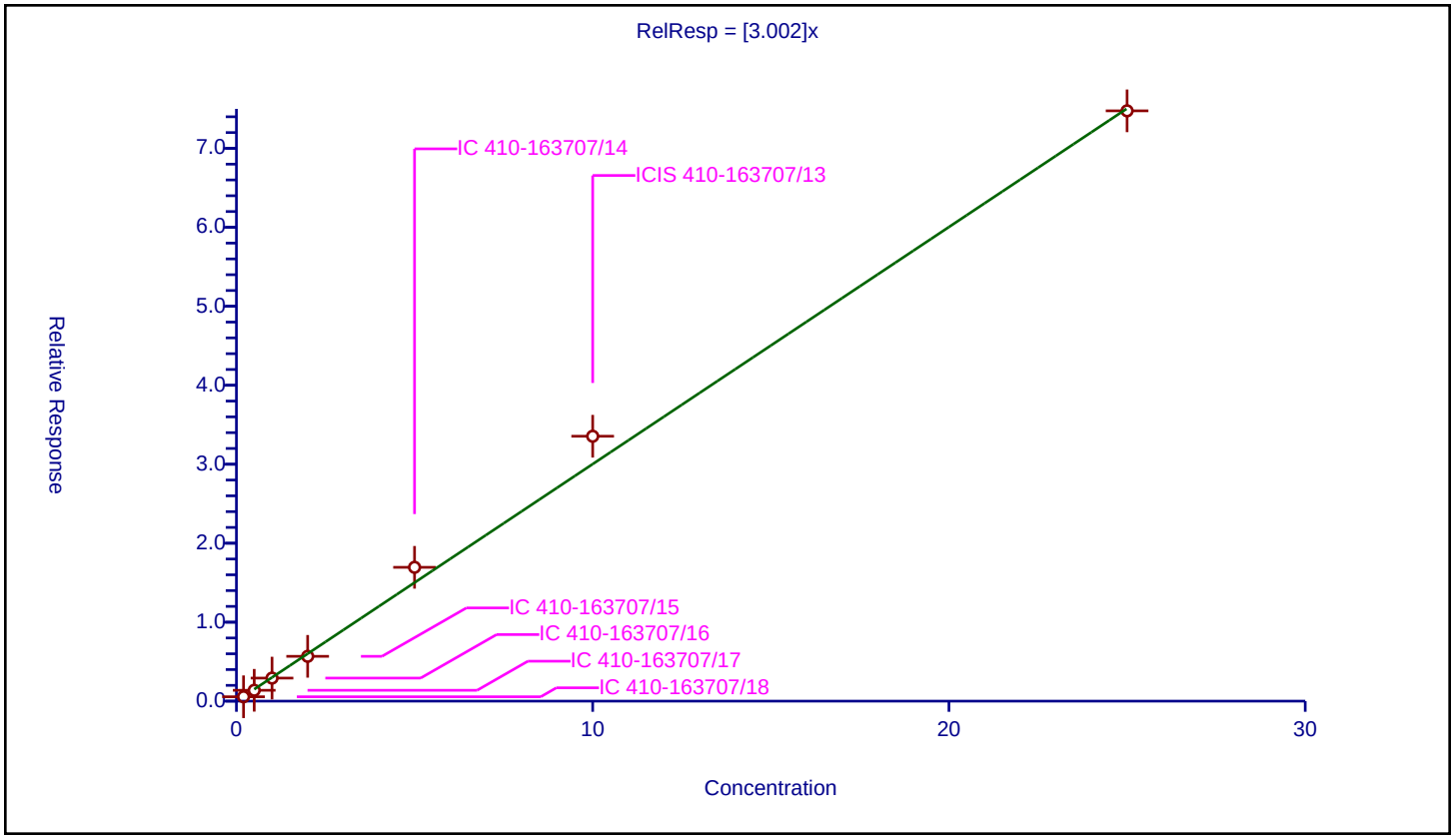
Curve Coefficients

Intercept:	0
Slope:	3.002

Error Coefficients

Standard Error:	3640000
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 410-163707/18	0.2	0.555351	10.0	1012314.0	2.776757	Y
2	IC 410-163707/17	0.5	1.374229	10.0	1102182.0	2.748457	Y
3	IC 410-163707/16	1.0	2.917741	10.0	987778.0	2.917741	Y
4	IC 410-163707/15	2.0	5.67513	10.0	984300.0	2.837565	Y
5	IC 410-163707/14	5.0	16.946186	10.0	963071.0	3.389237	Y
6	ICIS 410-163707/13	10.0	33.546186	10.0	963407.0	3.354619	Y
7	IC 410-163707/12	25.0	74.755359	10.0	1087615.0	2.990214	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

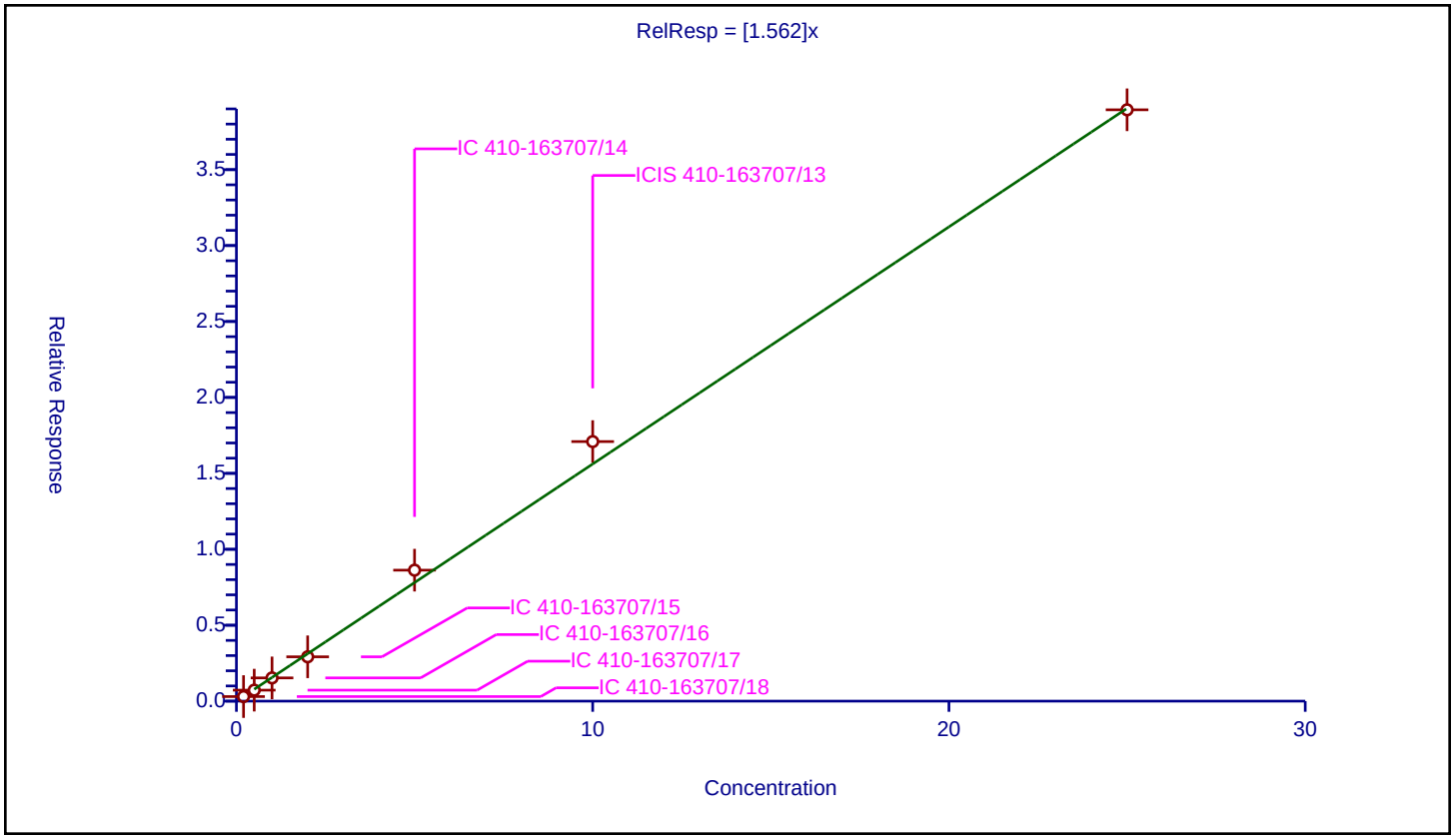
Curve Coefficients

Intercept:	0
Slope:	1.562

Error Coefficients

Standard Error:	1890000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.300223	10.0	1012314.0	1.501115	Y
2	IC 410-163707/17	0.5	0.724227	10.0	1102182.0	1.448454	Y
3	IC 410-163707/16	1.0	1.529858	10.0	987778.0	1.529858	Y
4	IC 410-163707/15	2.0	2.919527	10.0	984300.0	1.459763	Y
5	IC 410-163707/14	5.0	8.625044	10.0	963071.0	1.725009	Y
6	ICIS 410-163707/13	10.0	17.091478	10.0	963407.0	1.709148	Y
7	IC 410-163707/12	25.0	38.939478	10.0	1087615.0	1.557579	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

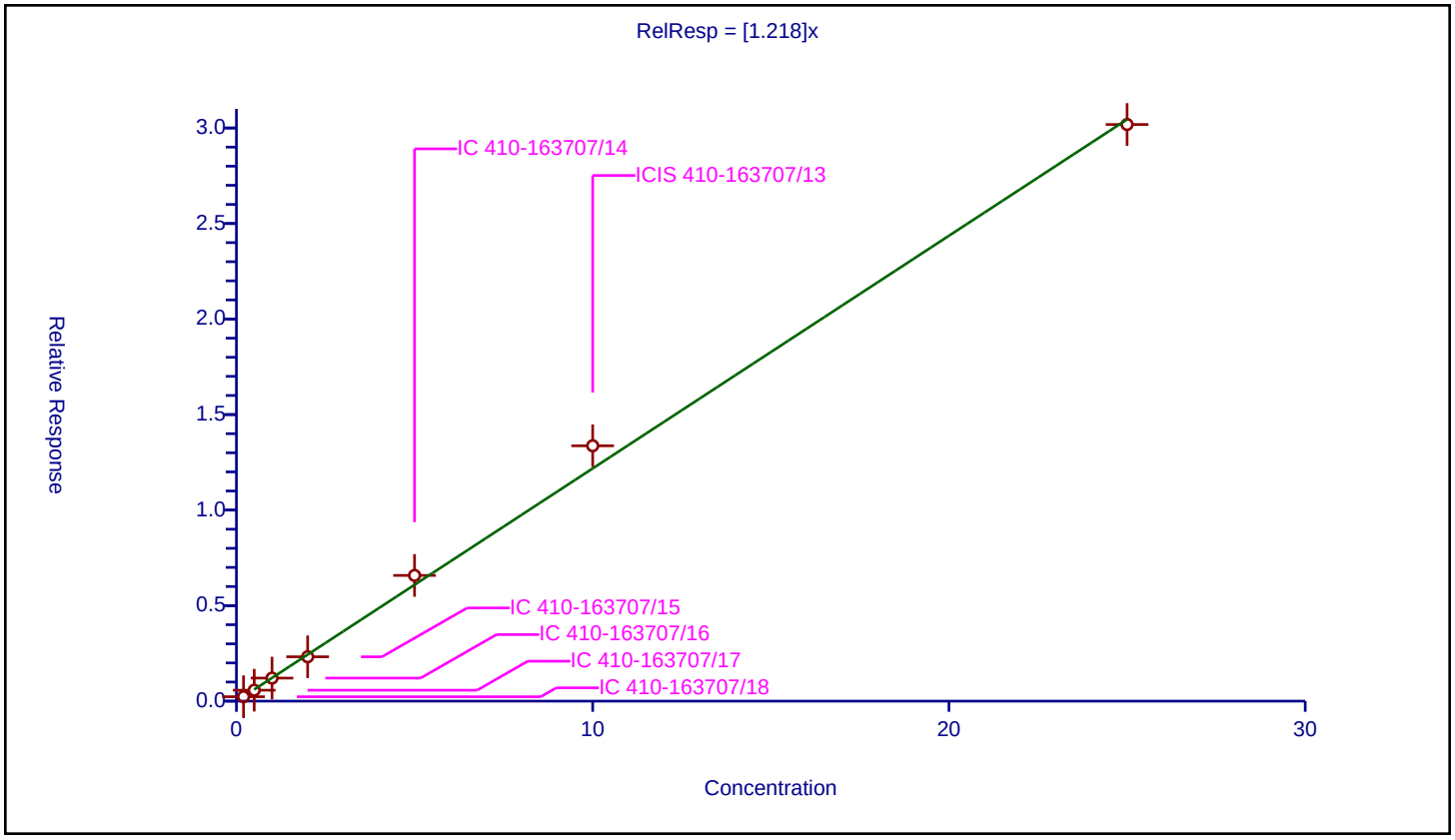
Curve Coefficients

Intercept:	0
Slope:	1.218

Error Coefficients

Standard Error:	1470000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.23067	10.0	1012314.0	1.153348	Y
2	IC 410-163707/17	0.5	0.572346	10.0	1102182.0	1.144693	Y
3	IC 410-163707/16	1.0	1.207134	10.0	987778.0	1.207134	Y
4	IC 410-163707/15	2.0	2.321447	10.0	984300.0	1.160723	Y
5	IC 410-163707/14	5.0	6.580346	10.0	963071.0	1.316069	Y
6	ICIS 410-163707/13	10.0	13.365639	10.0	963407.0	1.336564	Y
7	IC 410-163707/12	25.0	30.182969	10.0	1087615.0	1.207319	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

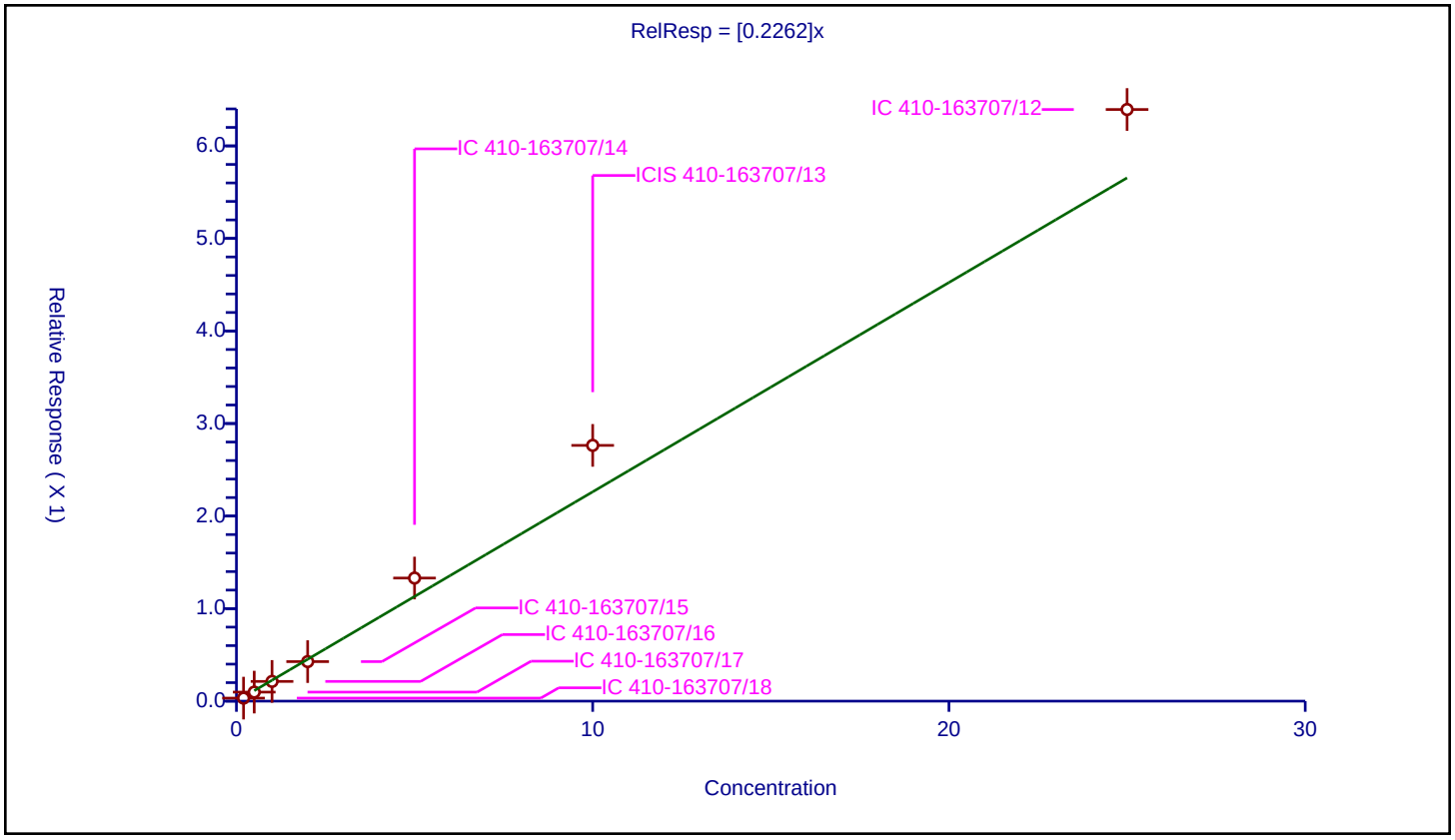
Curve Coefficients

Intercept:	0
Slope:	0.2262

Error Coefficients

Standard Error:	309000
Relative Standard Error:	18.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.964

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.032569	10.0	1012314.0	0.162845	Y
2	IC 410-163707/17	0.5	0.097851	10.0	1102182.0	0.195703	Y
3	IC 410-163707/16	1.0	0.213074	10.0	987778.0	0.213074	Y
4	IC 410-163707/15	2.0	0.427177	10.0	984300.0	0.213588	Y
5	IC 410-163707/14	5.0	1.330213	10.0	963071.0	0.266043	Y
6	ICIS 410-163707/13	10.0	2.763681	10.0	963407.0	0.276368	Y
7	IC 410-163707/12	25.0	6.393292	10.0	1087615.0	0.255732	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

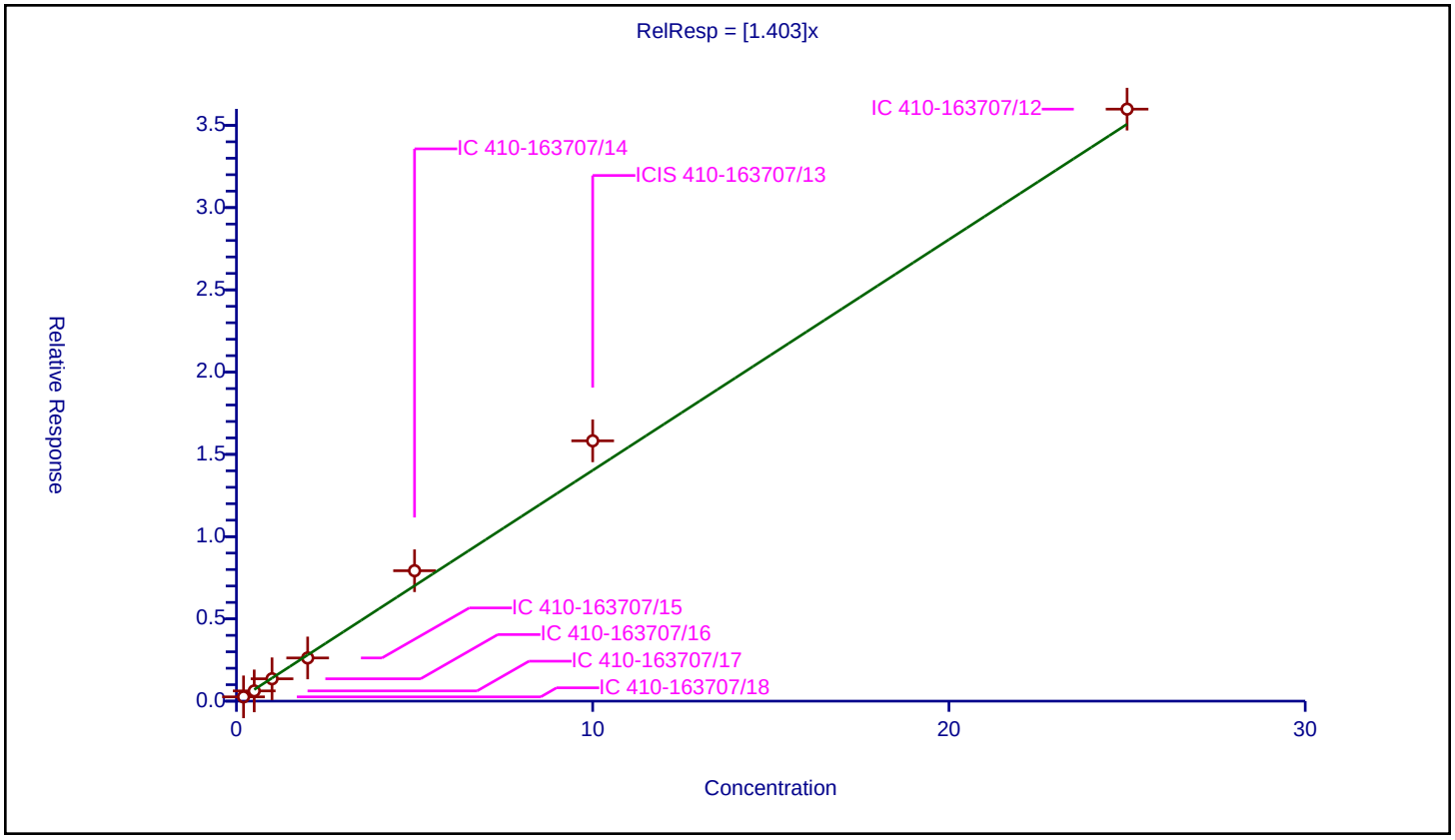
Curve Coefficients

Intercept:	0
Slope:	1.403

Error Coefficients

Standard Error:	1750000
Relative Standard Error:	9.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.259198	10.0	1012314.0	1.295991	Y
2	IC 410-163707/17	0.5	0.623091	10.0	1102182.0	1.246183	Y
3	IC 410-163707/16	1.0	1.358888	10.0	987778.0	1.358888	Y
4	IC 410-163707/15	2.0	2.624403	10.0	984300.0	1.312202	Y
5	IC 410-163707/14	5.0	7.927609	10.0	963071.0	1.585522	Y
6	ICIS 410-163707/13	10.0	15.82351	10.0	963407.0	1.582351	Y
7	IC 410-163707/12	25.0	35.984737	10.0	1087615.0	1.439389	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

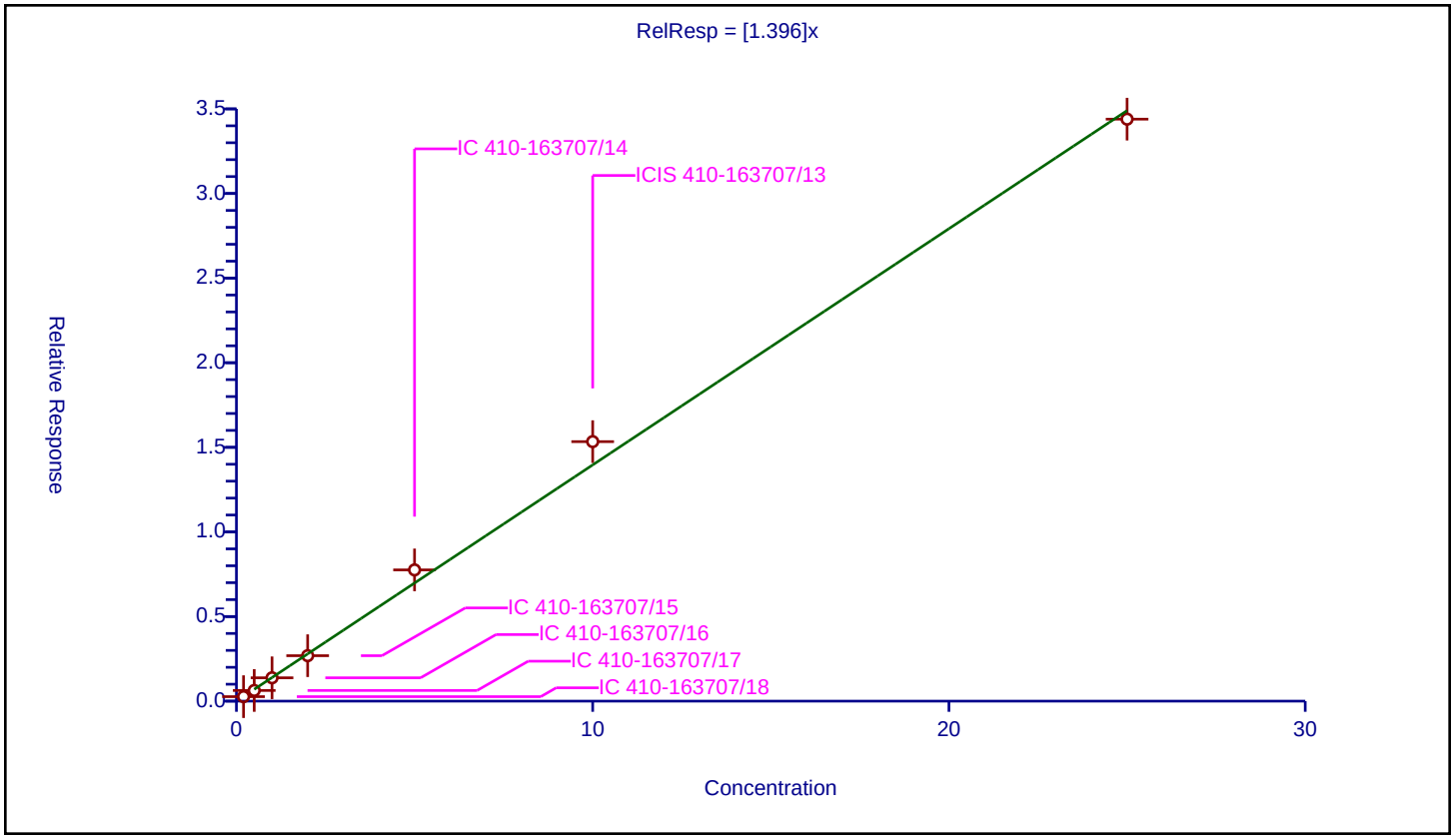
Curve Coefficients

Intercept:	0
Slope:	1.396

Error Coefficients

Standard Error:	1670000
Relative Standard Error:	7.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.265441	10.0	1012314.0	1.327207	Y
2	IC 410-163707/17	0.5	0.630549	10.0	1102182.0	1.261098	Y
3	IC 410-163707/16	1.0	1.379986	10.0	987778.0	1.379986	Y
4	IC 410-163707/15	2.0	2.686021	10.0	984300.0	1.34301	Y
5	IC 410-163707/14	5.0	7.756386	10.0	963071.0	1.551277	Y
6	ICIS 410-163707/13	10.0	15.33627	10.0	963407.0	1.533627	Y
7	IC 410-163707/12	25.0	34.393742	10.0	1087615.0	1.37575	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

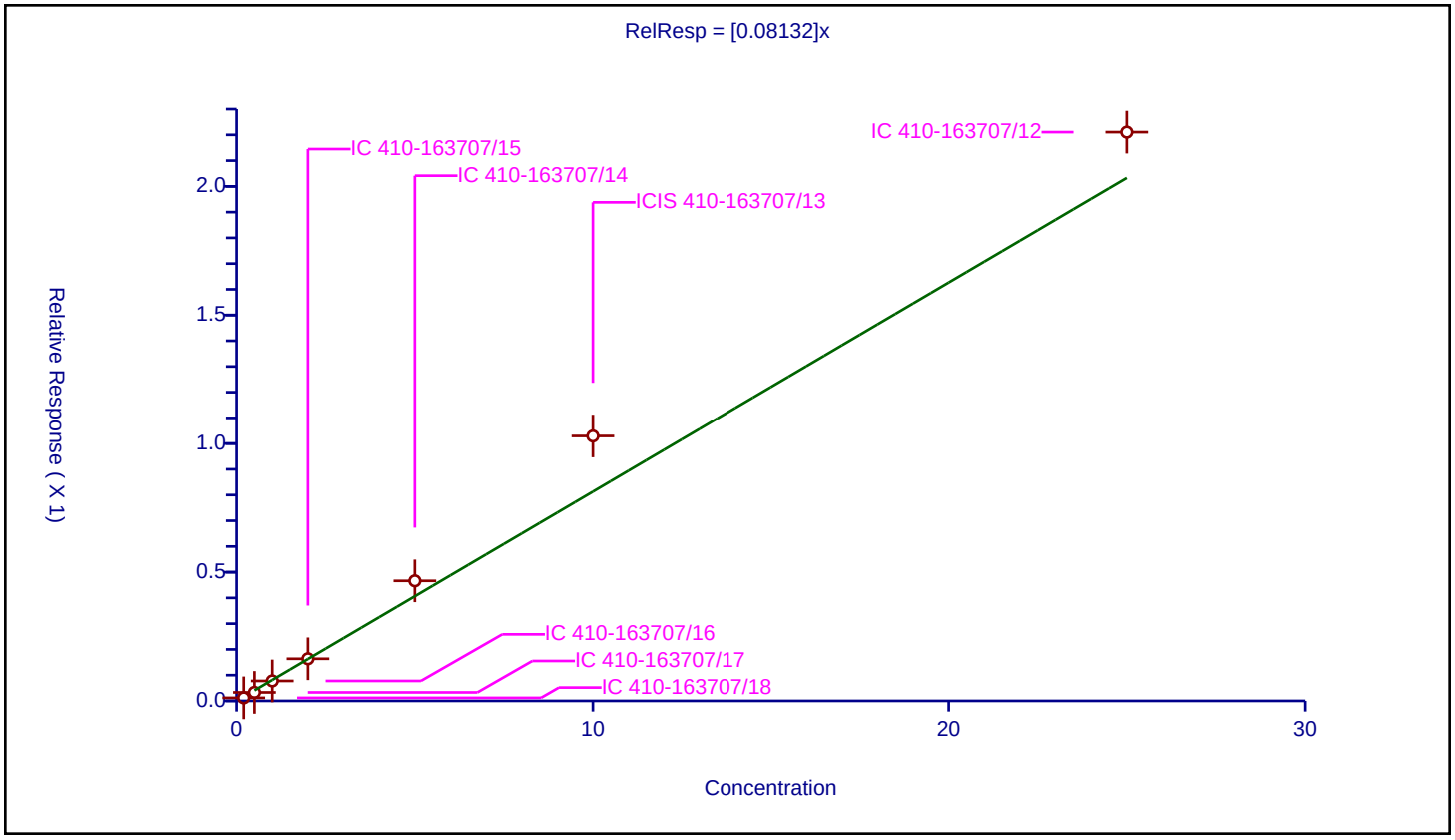
Curve Coefficients

Intercept:	0
Slope:	0.08132

Error Coefficients

Standard Error:	108000
Relative Standard Error:	18.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.962

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.011854	10.0	1012314.0	0.05927	Y
2	IC 410-163707/17	0.5	0.032971	10.0	1102182.0	0.065942	Y
3	IC 410-163707/16	1.0	0.077538	10.0	987778.0	0.077538	Y
4	IC 410-163707/15	2.0	0.163609	10.0	984300.0	0.081804	Y
5	IC 410-163707/14	5.0	0.466435	10.0	963071.0	0.093287	Y
6	ICIS 410-163707/13	10.0	1.029565	10.0	963407.0	0.102956	Y
7	IC 410-163707/12	25.0	2.210626	10.0	1087615.0	0.088425	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

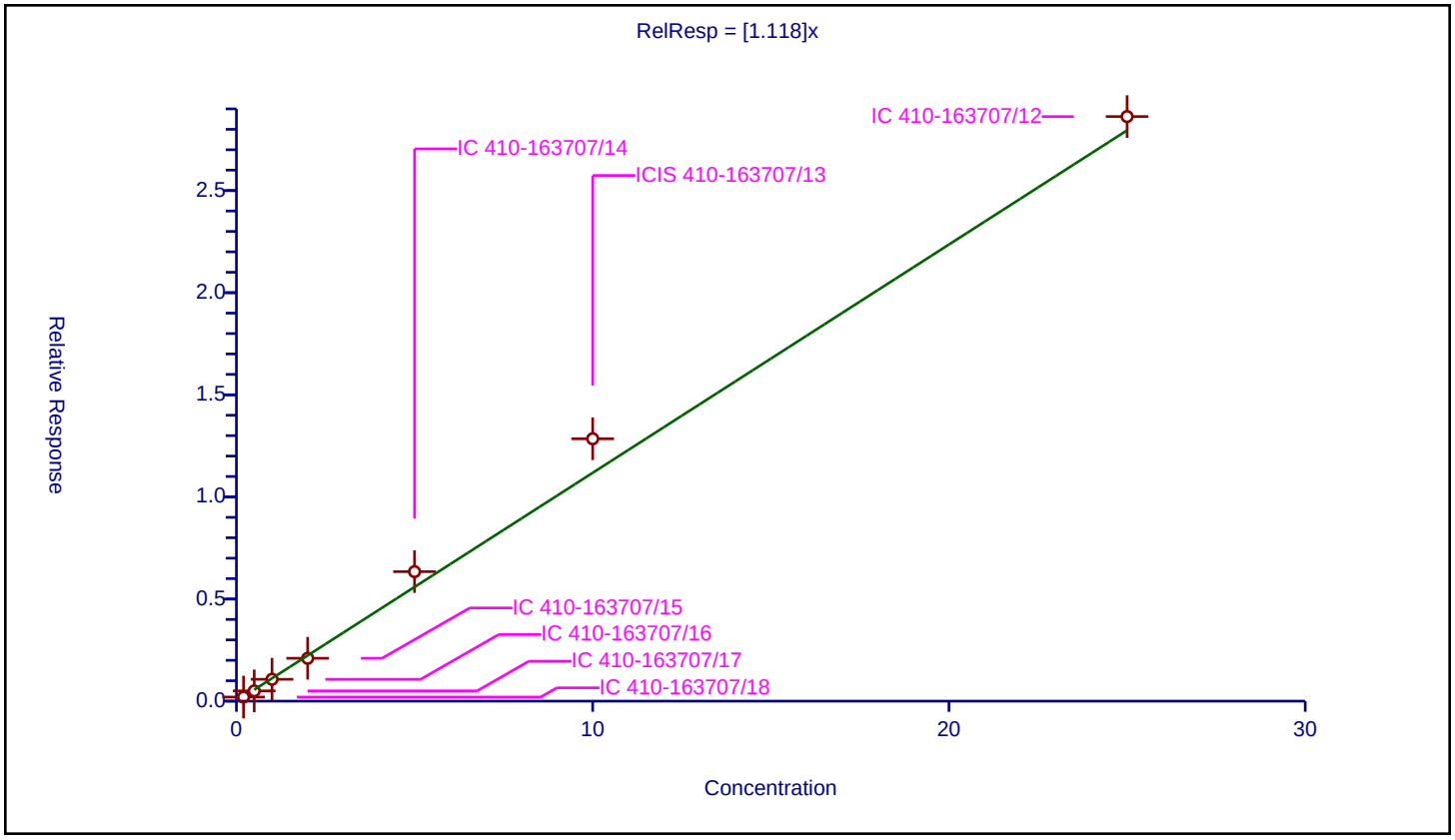
Curve Coefficients

Intercept:	0
Slope:	1.118

Error Coefficients

Standard Error:	1390000
Relative Standard Error:	10.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.200224	10.0	1012314.0	1.001122	Y
2	IC 410-163707/17	0.5	0.503329	10.0	1102182.0	1.006658	Y
3	IC 410-163707/16	1.0	1.07024	10.0	987778.0	1.07024	Y
4	IC 410-163707/15	2.0	2.099157	10.0	984300.0	1.049578	Y
5	IC 410-163707/14	5.0	6.341017	10.0	963071.0	1.268203	Y
6	ICIS 410-163707/13	10.0	12.847426	10.0	963407.0	1.284743	Y
7	IC 410-163707/12	25.0	28.624807	10.0	1087615.0	1.144992	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

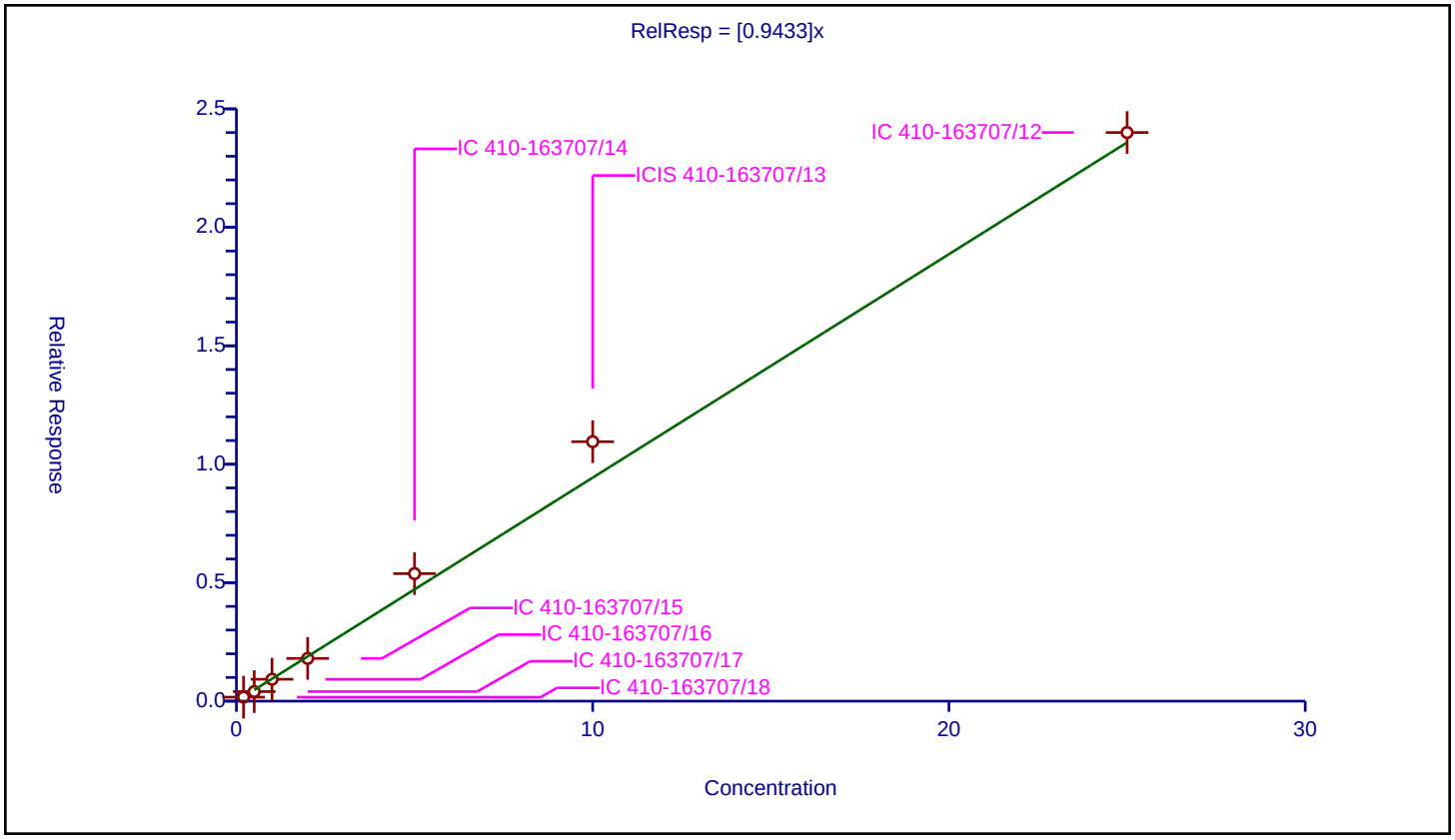
Curve Coefficients

Intercept:	0
Slope:	0.9433

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	11.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.167972	10.0	1012314.0	0.839858	Y
2	IC 410-163707/17	0.5	0.403146	10.0	1102182.0	0.806292	Y
3	IC 410-163707/16	1.0	0.924094	10.0	987778.0	0.924094	Y
4	IC 410-163707/15	2.0	1.802753	10.0	984300.0	0.901377	Y
5	IC 410-163707/14	5.0	5.38195	10.0	963071.0	1.07639	Y
6	ICIS 410-163707/13	10.0	10.951602	10.0	963407.0	1.09516	Y
7	IC 410-163707/12	25.0	24.002712	10.0	1087615.0	0.960108	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

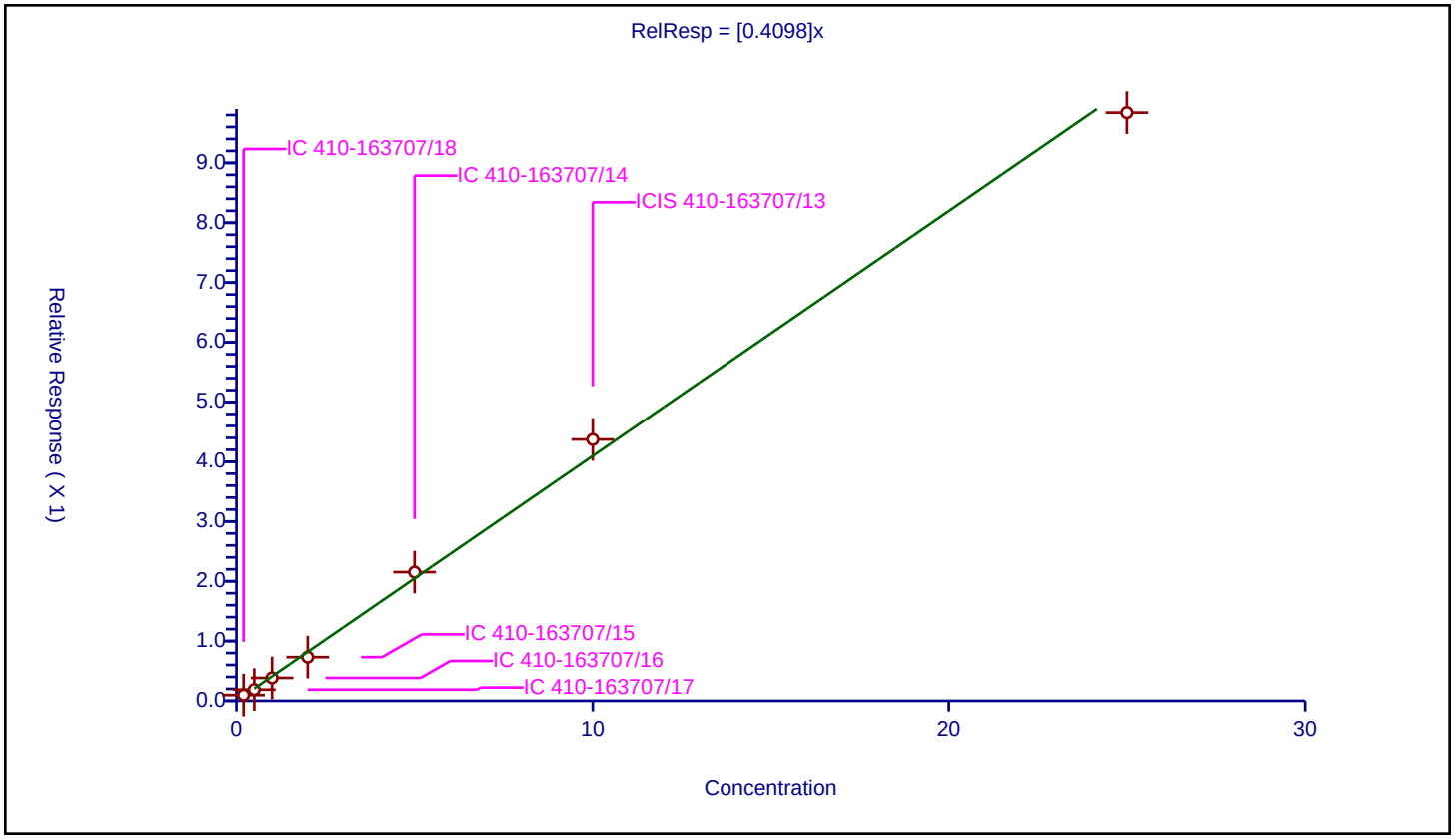
Curve Coefficients

Intercept:	0
Slope:	0.4098

Error Coefficients

Standard Error:	478000
Relative Standard Error:	10.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.096452	10.0	1012314.0	0.482261	Y
2	IC 410-163707/17	0.5	0.187809	10.0	1102182.0	0.375619	Y
3	IC 410-163707/16	1.0	0.383538	10.0	987778.0	0.383538	Y
4	IC 410-163707/15	2.0	0.73121	10.0	984300.0	0.365605	Y
5	IC 410-163707/14	5.0	2.153476	10.0	963071.0	0.430695	Y
6	ICIS 410-163707/13	10.0	4.373489	10.0	963407.0	0.437349	Y
7	IC 410-163707/12	25.0	9.839318	10.0	1087615.0	0.393573	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

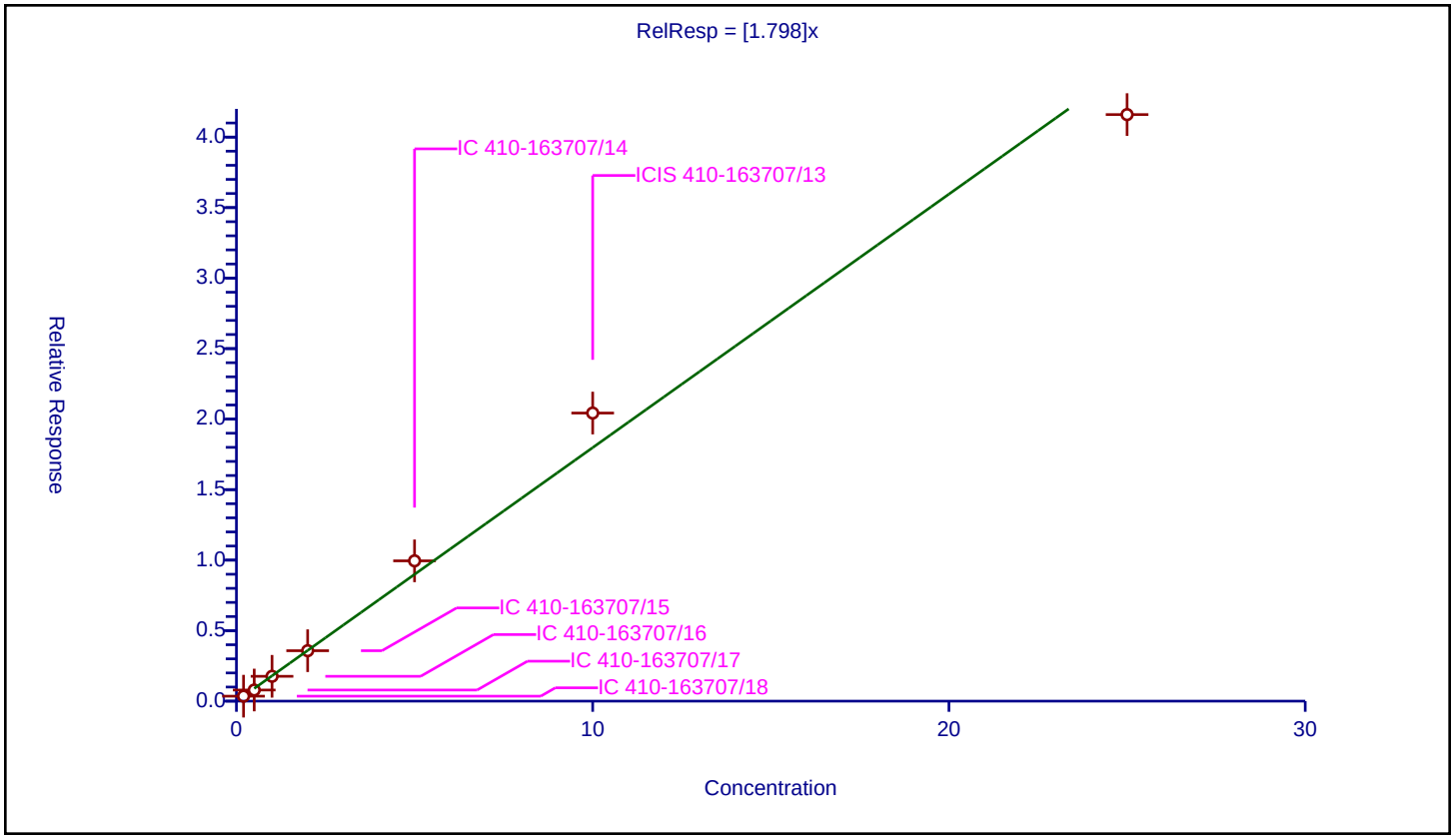
Curve Coefficients

Intercept:	0
Slope:	1.798

Error Coefficients

Standard Error:	2060000
Relative Standard Error:	9.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.352371	10.0	1012314.0	1.761855	Y
2	IC 410-163707/17	0.5	0.78879	10.0	1102182.0	1.57758	Y
3	IC 410-163707/16	1.0	1.760709	10.0	987778.0	1.760709	Y
4	IC 410-163707/15	2.0	3.575648	10.0	984300.0	1.787824	Y
5	IC 410-163707/14	5.0	9.949962	10.0	963071.0	1.989992	Y
6	ICIS 410-163707/13	10.0	20.429299	10.0	963407.0	2.04293	Y
7	IC 410-163707/12	25.0	41.596539	10.0	1087615.0	1.663862	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

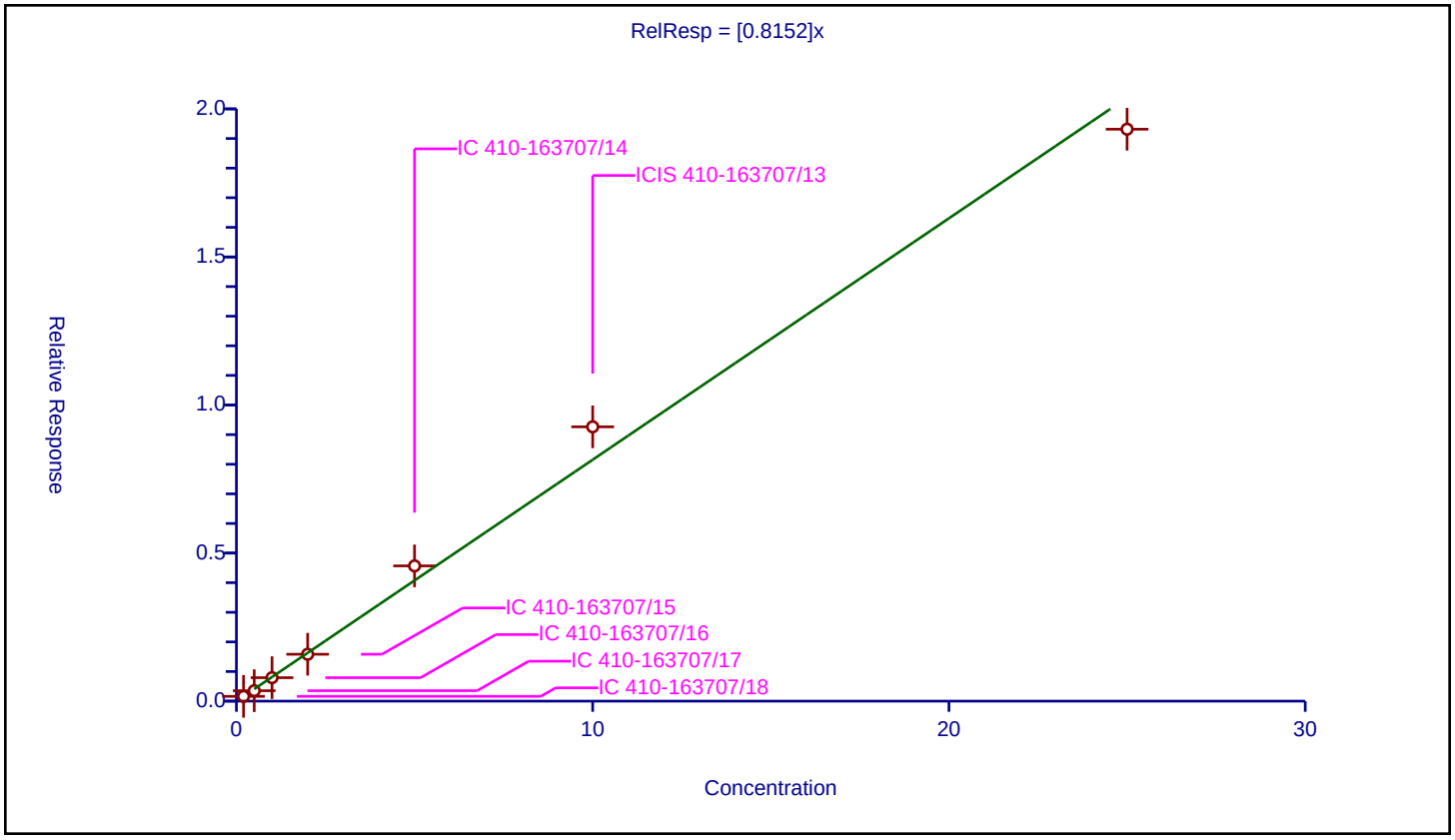
Curve Coefficients

Intercept:	0
Slope:	0.8152

Error Coefficients

Standard Error:	952000
Relative Standard Error:	9.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-163707/18	0.2	0.160997	10.0	1012314.0	0.804987	Y
2	IC 410-163707/17	0.5	0.352519	10.0	1102182.0	0.705038	Y
3	IC 410-163707/16	1.0	0.792131	10.0	987778.0	0.792131	Y
4	IC 410-163707/15	2.0	1.583785	10.0	984300.0	0.791893	Y
5	IC 410-163707/14	5.0	4.567877	10.0	963071.0	0.913575	Y
6	ICIS 410-163707/13	10.0	9.26379	10.0	963407.0	0.926379	Y
7	IC 410-163707/12	25.0	19.313342	10.0	1087615.0	0.772534	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-64660-1

SDG No.:

Lab Sample ID: ICV 410-153227/19 Calibration Date: 07/27/2021 22:09

Instrument ID: 16334 Calib Start Date: 07/27/2021 19:35

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/27/2021 21:47

Lab File ID: GL27X19.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	0.2497	0.3123	0.1000	6.25	5.00	25.0	30.0
Chloromethane	Ave	0.3117	0.3366	0.1000	5.40	5.00	8.0	30.0
1,3-Butadiene	Ave	0.3317	0.3340		5.03	5.00	0.7	30.0
Vinyl chloride	Ave	0.3028	0.3317	0.1000	5.48	5.00	9.6	30.0
Bromomethane	Ave	0.2163	0.2257	0.1000	5.22	5.00	4.3	30.0
Chloroethane	Ave	0.1806	0.1905	0.1000	5.27	5.00	5.5	30.0
Dichlorofluoromethane	Ave	0.4198	0.4504		5.36	5.00	7.3	30.0
Trichlorofluoromethane	Ave	0.3883	0.4123	0.1000	5.31	5.00	6.2	30.0
Pentane	None					5.00		30.0
Ethyl ether	Ave	0.1968	0.1682		4.29	5.02	-14.5	30.0
Freon 123a	Ave	0.2884	0.3013		5.22	5.00	4.5	30.0
Acrolein	Ave	2.120	2.227		39.4	37.5	5.0	30.0
1,1-Dichloroethene	Ave	0.2087	0.2369	0.1000	5.68	5.00	13.5	30.0
Freon 113	Ave	0.2263	0.2503	0.1000	5.53	5.00	10.6	30.0
Acetone	Ave	2.590	2.587	0.1000	62.4	62.5	-0.1	30.0
Methyl iodide	Ave	0.3950	0.4140		5.24	5.00	4.8	30.0
Ethyl bromide	Ave	0.1854	0.1820		4.97	5.07	-1.9	30.0
Carbon disulfide	Ave	0.7223	0.7878	0.1000	5.45	5.00	9.1	30.0
Methyl acetate	Ave	7.908	7.854	0.1000	4.97	5.00	-0.7	30.0
Allyl chloride	Ave	0.3564	0.3768		5.28	5.00	5.7	30.0
Methylene Chloride	Ave	0.2393	0.2573	0.1000	5.38	5.00	7.5	30.0
t-Butyl alcohol	Ave	0.8574	0.7804		45.5	50.0	-9.0	30.0
Acrylonitrile	Ave	3.603	3.755		26.0	25.0	4.2	30.0
Methyl tertiary butyl ether	Ave	0.6040	0.6232	0.1000	5.16	5.00	3.2	30.0
trans-1,2-Dichloroethene	Ave	0.2334	0.2541	0.1000	5.44	5.00	8.9	30.0
n-Hexane	Ave	0.3372	0.3578		5.31	5.00	6.1	30.0
1,1-Dichloroethane	Ave	0.4103	0.4350	0.2000	5.30	5.00	6.0	30.0
di-Isopropyl ether	Ave	0.7574	0.7867		5.19	5.00	3.9	30.0
2-Chloro-1,3-butadiene	Ave	0.3366	0.3751		5.57	5.00	11.4	30.0
Ethyl t-butyl ether	Ave	0.6904	0.7385		5.35	5.00	7.0	30.0
2-Butanone	Ave	4.965	5.352	0.1000	67.4	62.5	7.8	30.0
cis-1,2-Dichloroethene	Ave	0.2600	0.2881	0.1000	5.54	5.00	10.8	30.0
2,2-Dichloropropane	Ave	0.3040	0.3431		5.64	5.00	12.9	30.0
Propionitrile	Ave	1.279	1.173		34.4	37.5	-8.3	30.0
Methacrylonitrile	Ave	4.786	5.102		40.0	37.5	6.6	30.0
Bromochloromethane	Ave	0.1203	0.1326		5.51	5.00	10.2	30.0
Tetrahydrofuran	Ave	1.413	1.544		27.3	25.0	9.3	30.0
Chloroform	Ave	0.4085	0.4381	0.2000	5.36	5.00	7.3	30.0
1,1,1-Trichloroethane	Ave	0.3520	0.3825	0.1000	5.43	5.00	8.7	30.0
Cyclohexane	Ave	0.4101	0.4446	0.1000	5.42	5.00	8.4	30.0
1,1-Dichloropropene	Ave	0.3197	0.3539		5.53	5.00	10.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-64660-1

SDG No.:

Lab Sample ID: ICV 410-153227/19 Calibration Date: 07/27/2021 22:09

Instrument ID: 16334 Calib Start Date: 07/27/2021 19:35

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/27/2021 21:47

Lab File ID: GL27X19.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon tetrachloride	Ave	0.3099	0.3365	0.1000	5.43	5.00	8.6	30.0
Isobutyl alcohol	Ave	0.0046	0.0047		126	125	0.9	30.0
Benzene	Ave	0.9748	1.042	0.5000	5.34	5.00	6.9	30.0
1,2-Dichloroethane	Ave	0.2738	0.2704	0.1000	4.94	5.00	-1.2	30.0
t-Amyl methyl ether	Ave	0.6497	0.6748		5.19	5.00	3.9	30.0
n-Heptane	Ave	0.3708	0.3892		5.25	5.00	5.0	30.0
n-Butanol	Ave	0.2678	0.2497		233	250	-6.8	30.0
Trichloroethene	Ave	0.2564	0.2707	0.2000	5.28	5.00	5.6	30.0
Methylcyclohexane	Ave	0.4391	0.4762	0.1000	5.42	5.00	8.4	30.0
1,2-Dichloropropane	Ave	0.2508	0.2709	0.1000	5.40	5.00	8.0	30.0
Methyl methacrylate	Ave	9.103	9.909		5.44	5.00	8.9	30.0
Dibromomethane	Ave	0.1257	0.1338		5.32	5.00	6.5	30.0
1,4-Dioxane	Ave	0.0478	0.0460	0.0050	121	125	-3.6	30.0
Bromodichloromethane	Ave	0.2996	0.3236	0.2000	5.40	5.00	8.0	30.0
2-Nitropropane	Ave	2.572	2.611		5.08	5.00	1.5	30.0
1-Bromo-2-chloroethane	Ave	0.2732	0.2856		5.23	5.00	4.5	30.0
cis-1,3-Dichloropropene	Ave	0.3721	0.3990	0.2000	5.36	5.00	7.2	30.0
4-Methyl-2-pentanone	Ave	12.19	13.54	0.1000	69.4	62.5	11.1	30.0
Toluene	Ave	0.7999	0.8561	0.4000	5.35	5.00	7.0	30.0
trans-1,3-Dichloropropene	Ave	0.3993	0.4478	0.1000	5.61	5.00	12.1	30.0
Ethyl methacrylate	Ave	0.3448	0.3826		5.55	5.00	11.0	30.0
1,1,2-Trichloroethane	Ave	0.2437	0.2628	0.1000	5.39	5.00	7.8	30.0
Tetrachloroethene	Ave	0.3809	0.4184	0.2000	5.49	5.00	9.8	30.0
1,3-Dichloropropane	Ave	0.4119	0.4409		5.35	5.00	7.1	30.0
2-Hexanone	Ave	8.851	10.03	0.1000	70.8	62.5	13.3	30.0
Dibromochloromethane	Ave	0.2939	0.3190		5.43	5.00	8.5	30.0
1,2-Dibromoethane	Ave	0.2367	0.2524	0.1000	5.33	5.00	6.6	30.0
1-Chlorohexane	Ave	0.4620	0.4626		5.01	5.00	0.1	30.0
Chlorobenzene	Ave	0.9244	0.9838	0.5000	5.32	5.00	6.4	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3184	0.3463		5.44	5.00	8.8	30.0
Ethylbenzene	Ave	1.546	1.672	0.1000	5.41	5.00	8.1	30.0
m&p-Xylene	Ave	0.6007	0.6622	0.1000	11.0	10.0	10.2	30.0
o-Xylene	Ave	0.5940	0.6426	0.3000	5.41	5.00	8.2	30.0
Styrene	Ave	1.001	1.117	0.3000	5.58	5.00	11.5	30.0
Bromoform	Ave	0.1891	0.2024	0.1000	5.35	5.00	7.0	30.0
Isopropylbenzene	Ave	1.516	1.708	0.1000	5.63	5.00	12.7	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5455	0.5778	0.3000	5.30	5.00	5.9	30.0
Bromobenzene	Ave	0.6930	0.7404		5.34	5.00	6.8	30.0
trans-1,4-Dichloro-2-butene	Ave	4.432	4.110		23.2	25.0	-7.3	30.0
1,2,3-Trichloropropane	Ave	0.1487	0.1581		5.32	5.00	6.4	30.0
N-Propylbenzene	Ave	3.156	3.402		5.39	5.00	7.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-64660-1

SDG No.:

Lab Sample ID: ICV 410-153227/19 Calibration Date: 07/27/2021 22:09

Instrument ID: 16334 Calib Start Date: 07/27/2021 19:35

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/27/2021 21:47

Lab File ID: GL27X19.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.6431	0.6766		5.26	5.00	5.2	30.0
1,3,5-Trimethylbenzene	Ave	2.262	2.432		5.38	5.00	7.5	30.0
4-Chlorotoluene	Ave	0.6727	0.7205		5.36	5.00	7.1	30.0
tert-Butylbenzene	Ave	0.4899	0.5297		5.41	5.00	8.1	30.0
Pentachloroethane	Ave	0.4335	0.4295		4.95	5.00	-0.9	30.0
1,2,4-Trimethylbenzene	Ave	2.342	2.539		5.42	5.00	8.4	30.0
sec-Butylbenzene	Ave	2.886	3.218		5.58	5.00	11.5	30.0
1,3-Dichlorobenzene	Ave	1.405	1.482	0.6000	5.28	5.00	5.5	30.0
p-Isopropyltoluene	Ave	2.521	2.811		5.58	5.00	11.5	30.0
1,4-Dichlorobenzene	Ave	1.447	1.518	0.5000	5.25	5.00	4.9	30.0
1,2,3-Trimethylbenzene	Ave	1.080	1.116		5.17	5.00	3.4	30.0
Benzyl chloride	Ave	0.2105	0.2166		5.15	5.00	2.9	30.0
n-Butylbenzene	Ave	1.327	1.420		5.35	5.00	7.0	30.0
1,2-Dichlorobenzene	Ave	1.336	1.410	0.4000	5.28	5.00	5.5	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0877	0.0882	0.0500	5.03	5.00	0.6	30.0
1,3,5-Trichlorobenzene	Ave	1.170	1.200		5.13	5.00	2.6	30.0
1,2,4-Trichlorobenzene	Ave	1.067	1.126	0.2000	5.28	5.00	5.6	30.0
Hexachlorobutadiene	Ave	0.5287	0.5609		5.30	5.00	6.1	30.0
Naphthalene	Ave	1.878	2.003		5.33	5.00	6.6	30.0
1,2,3-Trichlorobenzene	Ave	0.9520	1.002		5.26	5.00	5.3	30.0
Dibromofluoromethane (Surr)	Ave	0.2492	0.2485		9.97	10.0	-0.3	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0554	0.0546		9.86	10.0	-1.4	30.0
Toluene-d8 (Surr)	Ave	1.302	1.313		10.1	10.0	0.8	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4761	0.4781		10.0	10.0	0.4	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X19.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 27-Jul-2021 22:09:30 ALS Bottle#: 19 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0035331-019
Misc. Info.: ICV
Operator ID: kas02648 Instrument ID: 16334
Sublist:

Method: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 05-Aug-2021 16:13:07 Calib Date: 27-Jul-2021 21:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1675

First Level Reviewer: spositok Date: 28-Jul-2021 12:12:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.946	1.934	0.012	99	297058	5.00	6.25	
5 Chloromethane	50	2.141	2.136	0.005	99	320212	5.00	5.40	
7 Butadiene	39	2.257	2.245	0.012	92	317738	5.00	5.03	
8 Vinyl chloride	62	2.263	2.251	0.012	98	315573	5.00	5.48	
9 Bromomethane	94	2.580	2.568	0.012	90	214697	5.00	5.22	
10 Chloroethane	64	2.660	2.648	0.012	100	181220	5.00	5.27	
12 Dichlorofluoromethane	67	2.897	2.892	0.005	97	428480	5.00	5.36	
13 Trichlorofluoromethane	101	2.971	2.959	0.012	97	392267	5.00	5.31	
15 Ethyl ether	59	3.196	3.190	0.006	91	160705	5.02	4.29	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.294	3.288	0.006	94	286610	5.00	5.22	
18 Acrolein	56	3.379	3.367	0.012	99	228173	37.5	39.4	
19 1,1-Dichloroethene	96	3.513	3.501	0.012	98	225357	5.00	5.68	
20 112TCTFE	101	3.544	3.532	0.012	91	238152	5.00	5.53	
21 Acetone	43	3.562	3.550	0.012	100	441753	62.5	62.4	
23 Iodomethane	142	3.696	3.696	0.000	99	393888	5.00	5.24	
24 Ethyl bromide	108	3.727	3.715	0.012	98	175465	5.07	4.97	
22 Isopropyl alcohol	45	3.836	3.800	0.036	25	45457	37.5	40.6	M
25 Carbon disulfide	76	3.824	3.806	0.018	99	749454	5.00	5.45	
27 Methyl acetate	43	3.946	3.934	0.012	97	107303	5.00	4.97	
28 3-Chloro-1-propene	41	3.970	3.965	0.005	93	358414	5.00	5.28	
29 Methylene Chloride	84	4.159	4.154	0.005	91	244781	5.00	5.38	
* 30 t-Butyl alcohol-d10 (IS)	65	4.257	4.257	0.000	94	136619	50.0	50.0	
31 2-Methyl-2-propanol	59	4.367	4.367	0.000	98	106621	50.0	45.5	
32 Acrylonitrile	53	4.513	4.501	0.012	99	256474	25.0	26.0	
33 Methyl tert-butyl ether	73	4.562	4.550	0.012	90	592899	5.00	5.16	
34 trans-1,2-Dichloroethene	96	4.568	4.556	0.012	100	241778	5.00	5.44	
35 Hexane	57	4.988	4.983	0.005	93	340385	5.00	5.31	
37 1,1-Dichloroethane	63	5.232	5.226	0.006	96	413847	5.00	5.30	
38 Isopropyl ether	45	5.299	5.287	0.012	94	748375	5.00	5.19	
39 2-Chloro-1,3-butadiene	53	5.342	5.336	0.006	90	356868	5.00	5.57	

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	5.830	5.824	0.006	98	702566	5.00	5.35	
41 2-Butanone (MEK)	43	6.049	6.043	0.006	100	913928	62.5	67.4	
42 cis-1,2-Dichloroethene	96	6.068	6.062	0.006	82	274081	5.00	5.54	
43 2,2-Dichloropropane	77	6.086	6.080	0.006	88	326377	5.00	5.64	
45 Propionitrile	54	6.153	6.153	0.000	99	120142	37.5	34.4	
48 Methacrylonitrile	67	6.348	6.348	0.000	92	522792	37.5	40.0	
49 Chlorobromomethane	128	6.397	6.391	0.006	93	126165	5.00	5.51	
50 Tetrahydrofuran	71	6.409	6.409	0.000	87	105442	25.0	27.3	
51 Chloroform	83	6.555	6.549	0.006	93	416815	5.00	5.36	
$ 52 Dibromofluoromethane (Surr)	113	6.769	6.763	0.006	94	472779	10.0	9.97	
53 1,1,1-Trichloroethane	97	6.781	6.769	0.012	98	363908	5.00	5.43	
54 Cyclohexane	56	6.872	6.866	0.006	91	422979	5.00	5.42	
56 Carbon tetrachloride	117	6.982	6.976	0.006	95	320124	5.00	5.43	
57 1,1-Dichloropropene	75	6.982	6.982	0.000	97	336703	5.00	5.53	
58 Isobutyl alcohol	41	7.195	7.196	-0.001	93	111077	125.0	126.2	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.220	7.214	0.006	89	103942	10.0	9.86	
60 Benzene	78	7.250	7.250	0.000	97	990972	5.00	5.34	
61 1,2-Dichloroethane	62	7.323	7.318	0.005	97	257192	5.00	4.94	
63 Tert-amyl methyl ether	73	7.445	7.446	-0.001	98	641949	5.00	5.19	
* 64 Fluorobenzene (IS)	96	7.659	7.653	0.006	99	1902658	10.0	10.0	
65 n-Heptane	43	7.665	7.665	0.000	91	370236	5.00	5.25	
67 n-Butanol	56	8.092	8.086	0.006	90	170576	250.0	233.1	
68 Trichloroethene	95	8.134	8.134	0.000	97	257542	5.00	5.28	
69 Methylcyclohexane	83	8.439	8.439	0.000	91	453007	5.00	5.42	
70 1,2-Dichloropropane	63	8.470	8.470	0.000	97	257672	5.00	5.40	
71 2-ethoxy-2-methyl butane	87	8.482	8.476	0.006	93	363165	5.00	5.26	
72 Methyl methacrylate	69	8.561	8.555	0.006	92	135379	5.00	5.44	
74 Dibromomethane	93	8.579	8.579	0.000	93	127330	5.00	5.32	
73 1,4-Dioxane	88	8.665	8.653	0.012	88	15727	125.0	120.5	M
76 Dichlorobromomethane	83	8.817	8.817	0.000	99	307812	5.00	5.40	
77 2-Nitropropane	41	9.104	9.104	0.000	98	35673	5.00	5.08	
80 1-Bromo-2-chloroethane	63	9.207	9.207	0.000	98	271678	5.00	5.23	
81 cis-1,3-Dichloropropene	75	9.372	9.366	0.006	97	379571	5.00	5.36	
82 4-Methyl-2-pentanone (MIBK)	43	9.549	9.549	0.000	96	2312274	62.5	69.4	
$ 83 Toluene-d8 (Surr)	98	9.683	9.677	0.006	93	1948073	10.0	10.1	
84 Toluene	92	9.756	9.756	0.000	98	635076	5.00	5.35	
96 trans-1,3-Dichloropropene	75	10.018	10.018	0.000	92	332183	5.00	5.61	
98 Ethyl methacrylate	69	10.079	10.079	0.000	89	283831	5.00	5.55	
99 1,1,2-Trichloroethane	97	10.225	10.219	0.006	90	194952	5.00	5.39	
100 Tetrachloroethene	166	10.305	10.305	0.000	98	310360	5.00	5.49	
101 1,3-Dichloropropane	76	10.390	10.384	0.006	90	327084	5.00	5.35	
102 2-Hexanone	43	10.445	10.445	0.000	96	1712879	62.5	70.8	
104 Chlorodibromomethane	129	10.597	10.597	0.000	89	236635	5.00	5.43	
105 Ethylene Dibromide	107	10.707	10.707	0.000	99	187203	5.00	5.33	
* 106 Chlorobenzene-d5 (IS)	117	11.146	11.140	0.006	85	1483632	10.0	10.0	
107 1-Chlorohexane	91	11.152	11.152	0.000	98	343188	5.00	5.01	
108 Chlorobenzene	112	11.170	11.170	0.000	96	729834	5.00	5.32	
110 1,1,1,2-Tetrachloroethane	131	11.249	11.250	-0.001	95	256883	5.00	5.44	
111 Ethylbenzene	91	11.256	11.256	0.000	98	1240438	5.00	5.41	
112 m-Xylene & p-Xylene	106	11.371	11.372	-0.001	100	982516	10.0	11.0	
113 o-Xylene	106	11.701	11.701	0.000	96	476654	5.00	5.41	
114 Styrene	104	11.719	11.719	0.000	95	828561	5.00	5.58	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Bromoform	173	11.871	11.872	-0.001	98	150143	5.00	5.35	
116 Isopropylbenzene	105	12.005	12.000	0.005	95	1267308	5.00	5.63	
$ 119 4-Bromofluorobenzene (Surr)	95	12.146	12.146	0.000	94	709314	10.0	10.0	
120 1,1,2,2-Tetrachloroethane	83	12.249	12.250	-0.001	94	254450	5.00	5.30	
121 Bromobenzene	156	12.261	12.262	-0.001	96	326059	5.00	5.34	
122 trans-1,4-Dichloro-2-butene	53	12.274	12.274	0.000	93	280744	25.0	23.2	
123 1,2,3-Trichloropropane	110	12.298	12.292	0.006	83	69645	5.00	5.32	
124 N-Propylbenzene	91	12.329	12.329	0.000	99	1498350	5.00	5.39	
125 2-Chlorotoluene	126	12.408	12.408	0.000	97	298000	5.00	5.26	
126 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	94	1071184	5.00	5.38	
127 4-Chlorotoluene	126	12.499	12.499	0.000	97	317309	5.00	5.36	
128 tert-Butylbenzene	134	12.713	12.707	0.006	93	233295	5.00	5.41	
129 Pentachloroethane	167	12.743	12.743	0.000	94	189146	5.00	4.95	
130 1,2,4-Trimethylbenzene	105	12.749	12.749	0.000	97	1118273	5.00	5.42	
131 sec-Butylbenzene	105	12.871	12.871	0.000	94	1417428	5.00	5.58	
132 1,3-Dichlorobenzene	146	12.969	12.969	0.000	99	652780	5.00	5.28	
133 4-Isopropyltoluene	119	12.981	12.981	0.000	97	1237843	5.00	5.58	
* 134 1,4-Dichlorobenzene-d4	152	13.030	13.024	0.006	92	880820	10.0	10.0	
135 1,4-Dichlorobenzene	146	13.042	13.042	0.000	96	668683	5.00	5.25	
136 1,2,3-Trimethylbenzene	120	13.054	13.054	0.000	98	491460	5.00	5.17	
137 Benzyl chloride	126	13.121	13.121	0.000	98	95390	5.00	5.15	
138 p-Diethylbenzene	119	13.182	13.182	0.000	92	721267	5.00	5.26	
139 n-Butylbenzene	92	13.273	13.274	-0.001	97	625439	5.00	5.35	
140 1,2-Dichlorobenzene	146	13.304	13.304	0.000	99	621100	5.00	5.28	
142 1,2-Dibromo-3-Chloropropane	155	13.847	13.847	0.000	89	38858	5.00	5.03	
143 1,3,5-Trichlorobenzene	180	13.968	13.969	-0.001	98	528667	5.00	5.13	
144 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	495946	5.00	5.28	
145 Hexachlorobutadiene	225	14.474	14.475	-0.001	96	247029	5.00	5.30	
146 Naphthalene	128	14.572	14.578	-0.006	97	882158	5.00	5.33	
147 1,2,3-Trichlorobenzene	180	14.718	14.719	-0.001	96	441472	5.00	5.26	
148 2-Methylnaphthalene	142	15.334	15.340	-0.006	92	539295	5.00	5.22	
160 Pentane	43	2.995	2.983	0.012	98	414265	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_Penta_00005	Amount Added:	12.50	Units: uL	
MSV_LCS_VOC#1_00011	Amount Added:	12.50	Units: uL	
MSV_Q_EE_00004	Amount Added:	12.50	Units: uL	
MSV_Q_ETBR_00008	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00018	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00013	Amount Added:	12.50	Units: uL	
MSV_29_826ISS_00020	Amount Added:	1.00	Units: uL	Run Reagent

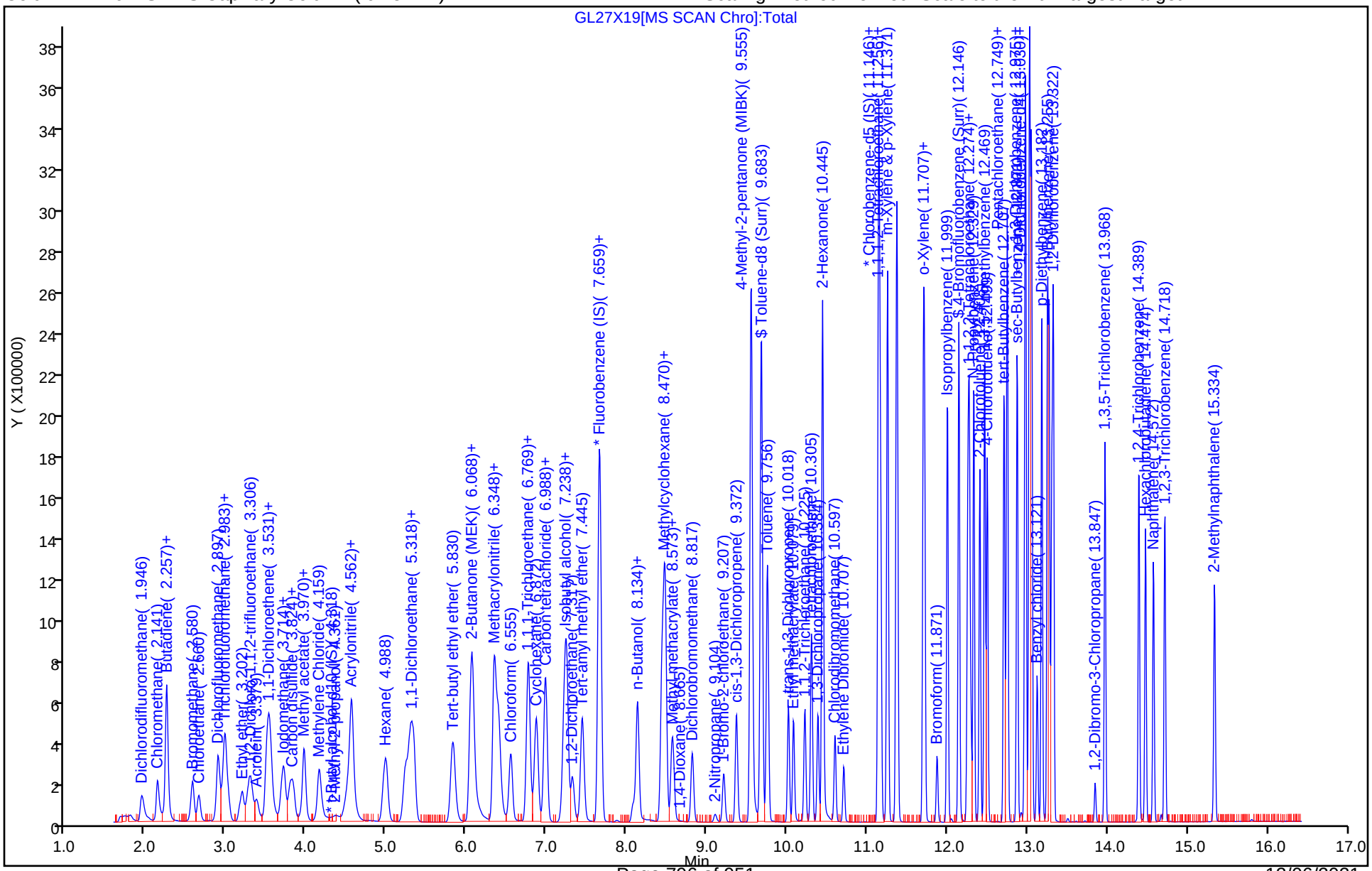
Report Date: 05-Aug-2021 16:13:59 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X19.D

Injection Date:	27-Jul-2021 22:09:30	Instrument ID:	16334	Operator ID:	kas02648
Lims ID:	ICV			Worklist Smp#:	19
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

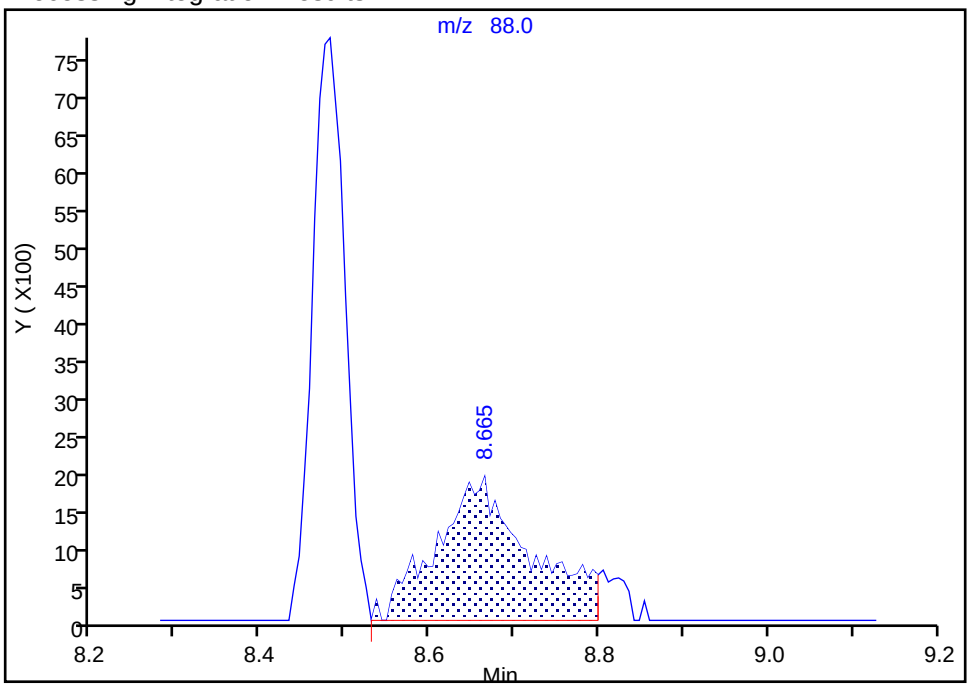
Data File:	\\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X19.D				
Injection Date:	27-Jul-2021 22:09:30	Instrument ID:	16334		
Lims ID:	ICV				
Client ID:					
Operator ID:	kas02648	ALS Bottle#:	19	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

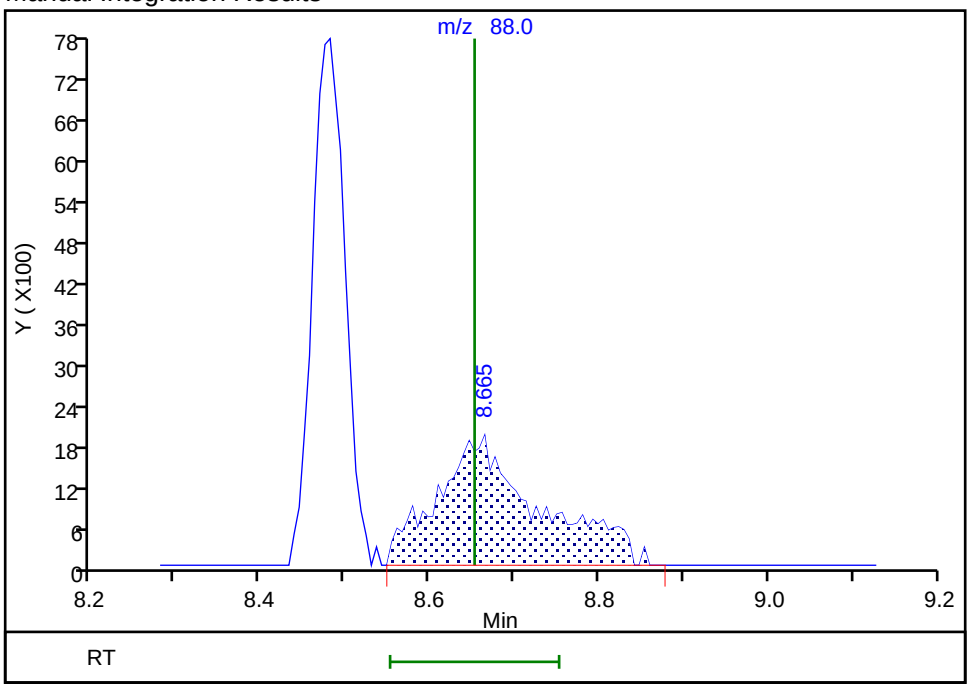
Processing Integration Results

RT: 8.66
Area: 14565
Amount: 111.6015
Amount Units: ug/l



Manual Integration Results

RT: 8.66
Area: 15727
Amount: 120.5051
Amount Units: ug/l



Reviewer: spositok, 28-Jul-2021 12:12:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-64660-1

SDG No.:

Lab Sample ID: CCVIS 410-201490/3 Calibration Date: 12/04/2021 10:00

Instrument ID: 16334 Calib Start Date: 07/27/2021 19:35

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/27/2021 21:47

Lab File ID: GD04X02.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	0.2497	0.1984	0.1000	7.94	10.0	-20.6*	20.0
Chloromethane	Ave	0.3117	0.3118	0.1000	10.0	10.0	0.0	20.0
1,3-Butadiene	Ave	0.3317	0.3391		10.2	10.0	2.2	20.0
Vinyl chloride	Ave	0.3028	0.2612	0.1000	8.63	10.0	-13.7	20.0
Bromomethane	Ave	0.2163	0.2086	0.1000	9.64	10.0	-3.6	20.0
Chloroethane	Ave	0.1806	0.1612	0.1000	8.93	10.0	-10.7	20.0
Dichlorofluoromethane	Ave	0.4198	0.3889		9.27	10.0	-7.3	20.0
Trichlorofluoromethane	Ave	0.3883	0.3581	0.1000	9.22	10.0	-7.8	20.0
Pentane	None					10.0		20.0
Ethyl ether	Ave	0.1968	0.1621		8.24	10.0	-17.6	20.0
Freon 123a	Ave	0.2884	0.2519		8.74	10.0	-12.6	20.0
Acrolein	Ave	2.120	2.130		503	501	0.4	20.0
1,1-Dichloroethene	Ave	0.2087	0.1899	0.1000	9.10	10.0	-9.0	20.0
Freon 113	Ave	0.2263	0.1667	0.1000	7.37	10.0	-26.3*	20.0
Acetone	Ave	2.590	2.074	0.1000	80.1	100	-19.9	20.0
Methyl iodide	Ave	0.3950	0.3254		8.24	10.0	-17.6	20.0
Ethyl bromide	Ave	0.1854	0.1595		8.60	9.99	-14.0	20.0
Carbon disulfide	Ave	0.7223	0.5878	0.1000	8.14	10.0	-18.6	20.0
Methyl acetate	Ave	7.908	7.841	0.1000	9.92	10.0	-0.8	20.0
Allyl chloride	Ave	0.3564	0.2604		7.31	10.0	-26.9*	20.0
Methylene Chloride	Ave	0.2393	0.2132	0.1000	8.91	10.0	-10.9	20.0
t-Butyl alcohol	Ave	0.8574	0.8930		208	200	4.2	20.0
Acrylonitrile	Ave	3.603	3.285		22.8	25.0	-8.8	20.0
Methyl tertiary butyl ether	Ave	0.6040	0.5427	0.1000	8.99	10.0	-10.1	20.0
trans-1,2-Dichloroethene	Ave	0.2334	0.2176	0.1000	9.32	10.0	-6.8	20.0
n-Hexane	Ave	0.3372	0.2227		6.60	10.0	-34.0*	20.0
1,1-Dichloroethane	Ave	0.4103	0.3626	0.2000	8.84	10.0	-11.6	20.0
di-Isopropyl ether	Ave	0.7574	0.6089		8.04	10.0	-19.6	20.0
2-Chloro-1,3-butadiene	Ave	0.3366	0.2943		8.74	10.0	-12.6	20.0
Ethyl t-butyl ether	Ave	0.6904	0.6186		8.96	10.0	-10.4	20.0
2-Butanone	Ave	4.965	4.909	0.1000	98.9	100	-1.1	20.0
cis-1,2-Dichloroethene	Ave	0.2600	0.2402	0.1000	9.24	10.0	-7.6	20.0
2,2-Dichloropropane	Ave	0.3040	0.3166		10.4	10.0	4.2	20.0
Propionitrile	Ave	1.279	1.346		210	200	5.2	20.0
Methacrylonitrile	Ave	4.786	5.325		111	100	11.3	20.0
Bromochloromethane	Ave	0.1203	0.1087		9.03	10.0	-9.7	20.0
Tetrahydrofuran	Ave	1.413	1.468		52.0	50.0	3.9	20.0
Chloroform	Ave	0.4085	0.3862	0.2000	9.45	10.0	-5.5	20.0
1,1,1-Trichloroethane	Ave	0.3520	0.3385	0.1000	9.62	10.0	-3.8	20.0
Cyclohexane	Ave	0.4101	0.2916	0.1000	7.11	10.0	-28.9*	20.0
1,1-Dichloropropene	Ave	0.3197	0.2886		9.03	10.0	-9.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-64660-1

SDG No.:

Lab Sample ID: CCVIS 410-201490/3 Calibration Date: 12/04/2021 10:00

Instrument ID: 16334 Calib Start Date: 07/27/2021 19:35

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/27/2021 21:47

Lab File ID: GD04X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon tetrachloride	Ave	0.3099	0.2937	0.1000	9.48	10.0	-5.2	20.0
Isobutyl alcohol	Ave	0.0046	0.0039		426	500	-14.9	20.0
Benzene	Ave	0.9748	0.8870	0.5000	9.10	10.0	-9.0	20.0
1,2-Dichloroethane	Ave	0.2738	0.2327	0.1000	8.50	10.0	-15.0	20.0
t-Amyl methyl ether	Ave	0.6497	0.5906		9.09	10.0	-9.1	20.0
n-Heptane	Ave	0.3708	0.2326		6.27	10.0	-37.3*	20.0
n-Butanol	Ave	0.2678	0.3592		1170	875	34.1*	20.0
Trichloroethene	Ave	0.2564	0.2371	0.2000	9.25	10.0	-7.5	20.0
Methylcyclohexane	Ave	0.4391	0.3266	0.1000	7.44	10.0	-25.6*	20.0
1,2-Dichloropropane	Ave	0.2508	0.2165	0.1000	8.63	10.0	-13.7	20.0
Methyl methacrylate	Ave	9.103	10.15		11.1	10.0	11.5	20.0
Dibromomethane	Ave	0.1257	0.1189		9.46	10.0	-5.4	20.0
1,4-Dioxane	Ave	0.0478	0.0474	0.0050	496	500	-0.7	20.0
Bromodichloromethane	Ave	0.2996	0.2800	0.2000	9.35	10.0	-6.5	20.0
2-Nitropropane	Ave	2.572	2.752		53.5	50.0	7.0	20.0
1-Bromo-2-chloroethane	Ave	0.2732	0.2448		8.96	10.0	-10.4	20.0
cis-1,3-Dichloropropene	Ave	0.3721	0.3411	0.2000	9.17	10.0	-8.3	20.0
4-Methyl-2-pentanone	Ave	12.19	12.68	0.1000	104	100	4.0	20.0
Toluene	Ave	0.7999	0.7440	0.4000	9.30	10.0	-7.0	20.0
trans-1,3-Dichloropropene	Ave	0.3993	0.3743	0.1000	9.37	10.0	-6.3	20.0
Ethyl methacrylate	Ave	0.3448	0.3125		9.06	10.0	-9.4	20.0
1,1,2-Trichloroethane	Ave	0.2437	0.2249	0.1000	9.23	10.0	-7.7	20.0
Tetrachloroethene	Ave	0.3809	0.3286	0.2000	8.63	10.0	-13.7	20.0
1,3-Dichloropropane	Ave	0.4119	0.3730		9.06	10.0	-9.4	20.0
2-Hexanone	Ave	8.851	9.497	0.1000	107	100	7.3	20.0
Dibromochloromethane	Ave	0.2939	0.2677		9.11	10.0	-8.9	20.0
1,2-Dibromoethane	Ave	0.2367	0.2198	0.1000	9.29	10.0	-7.1	20.0
1-Chlorohexane	Ave	0.4620	0.4048		8.76	10.0	-12.4	20.0
Chlorobenzene	Ave	0.9244	0.8610	0.5000	9.31	10.0	-6.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3184	0.3046		9.57	10.0	-4.3	20.0
Ethylbenzene	Ave	1.546	1.459	0.1000	9.44	10.0	-5.6	20.0
m&p-Xylene	Ave	0.6007	0.5680	0.1000	18.9	20.0	-5.4	20.0
o-Xylene	Ave	0.5940	0.5665	0.3000	9.54	10.0	-4.6	20.0
Styrene	Ave	1.001	0.9753	0.3000	9.74	10.0	-2.6	20.0
Bromoform	Ave	0.1891	0.1638	0.1000	8.66	10.0	-13.4	20.0
Isopropylbenzene	Ave	1.516	1.454	0.1000	9.59	10.0	-4.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5455	0.5332	0.3000	9.77	10.0	-2.3	20.0
Bromobenzene	Ave	0.6930	0.6473		9.34	10.0	-6.6	20.0
trans-1,4-Dichloro-2-butene	Ave	4.432	3.288		74.2	100	-25.8*	20.0
1,2,3-Trichloropropane	Ave	0.1487	0.1457		9.80	10.0	-2.0	20.0
N-Propylbenzene	Ave	3.156	3.210		10.2	10.0	1.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-64660-1

SDG No.:

Lab Sample ID: CCVIS 410-201490/3 Calibration Date: 12/04/2021 10:00

Instrument ID: 16334 Calib Start Date: 07/27/2021 19:35

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 07/27/2021 21:47

Lab File ID: GD04X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chlorotoluene	Ave	0.6431	0.6392		9.94	10.0	-0.6	20.0
1,3,5-Trimethylbenzene	Ave	2.262	2.291		10.1	10.0	1.3	20.0
4-Chlorotoluene	Ave	0.6727	0.6729		10.0	10.0	0.0	20.0
tert-Butylbenzene	Ave	0.4899	0.4835		9.87	10.0	-1.3	20.0
Pentachloroethane	Ave	0.4335	0.4124		9.51	10.0	-4.9	20.0
1,2,4-Trimethylbenzene	Ave	2.342	2.380		10.2	10.0	1.6	20.0
sec-Butylbenzene	Ave	2.886	2.914		10.1	10.0	1.0	20.0
1,3-Dichlorobenzene	Ave	1.405	1.342	0.6000	9.55	10.0	-4.5	20.0
p-Isopropyltoluene	Ave	2.521	2.614		10.4	10.0	3.7	20.0
1,4-Dichlorobenzene	Ave	1.447	1.370	0.5000	9.47	10.0	-5.3	20.0
1,2,3-Trimethylbenzene	Ave	1.080	1.049		9.71	10.0	-2.9	20.0
Benzyl chloride	Ave	0.2105	0.2339		11.1	10.0	11.1	20.0
n-Butylbenzene	Ave	1.327	1.351		10.2	10.0	1.8	20.0
1,2-Dichlorobenzene	Ave	1.336	1.270	0.4000	9.50	10.0	-5.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0877	0.0784	0.0500	8.93	10.0	-10.7	20.0
1,3,5-Trichlorobenzene	Ave	1.170	1.073		9.17	10.0	-8.3	20.0
1,2,4-Trichlorobenzene	Ave	1.067	0.9535	0.2000	8.94	10.0	-10.6	20.0
Hexachlorobutadiene	Ave	0.5287	0.4559		8.62	10.0	-13.8	20.0
Naphthalene	Ave	1.878	1.768		9.41	10.0	-5.9	20.0
1,2,3-Trichlorobenzene	Ave	0.9520	0.8246		8.66	10.0	-13.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2492	0.2474		9.93	10.0	-0.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0554	0.0538		9.71	10.0	-2.9	20.0
Toluene-d8 (Surr)	Ave	1.302	1.273		9.77	10.0	-2.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4761	0.4840		10.2	10.0	1.7	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04X02.D
Lims ID: CCVIS VSTD10
Client ID:
Sample Type: CCVIS
Inject. Date: 04-Dec-2021 10:00:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045539-003
Misc. Info.: CCVIS VSTD12.5
Operator ID: knk41612 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 04-Dec-2021 12:24:17 Calib Date: 27-Jul-2021 21:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1614

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.941	1.941	0.000	99	459293	10.0	7.94	
5 Chloromethane	50	2.142	2.142	0.000	99	721865	10.0	10.0	
7 Butadiene	39	2.258	2.258	0.000	89	785140	10.0	10.2	
8 Vinyl chloride	62	2.258	2.258	0.000	97	604621	10.0	8.63	
9 Bromomethane	94	2.587	2.587	0.000	91	482957	10.0	9.64	
10 Chloroethane	64	2.660	2.660	0.000	100	373270	10.0	8.93	
12 Dichlorofluoromethane	67	2.904	2.904	0.000	97	900474	10.0	9.27	
13 Trichlorofluoromethane	101	2.971	2.971	0.000	98	829055	10.0	9.22	
15 Ethyl ether	59	3.202	3.202	0.000	89	375340	10.0	8.24	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.306	3.306	0.000	90	583246	10.0	8.74	
18 Acrolein	56	3.379	3.379	0.000	99	2914963	501.1	503.2	
19 1,1-Dichloroethene	96	3.507	3.507	0.000	96	439764	10.0	9.10	
20 112TCTFE	101	3.550	3.550	0.000	92	385868	10.0	7.37	
21 Acetone	43	3.562	3.562	0.000	100	566466	100.0	80.1	
23 Iodomethane	142	3.696	3.696	0.000	99	753456	10.0	8.24	
24 Ethyl bromide	108	3.727	3.727	0.000	98	369026	10.0	8.60	
22 Isopropyl alcohol	45	3.776	3.776	0.000	98	245471	200.0	180.2	
25 Carbon disulfide	76	3.800	3.800	0.000	99	1360893	10.0	8.14	
27 Methyl acetate	43	3.946	3.946	0.000	97	214208	10.0	9.92	
28 3-Chloro-1-propene	41	3.983	3.983	0.000	91	602914	10.0	7.31	
29 Methylene Chloride	84	4.166	4.166	0.000	88	493550	10.0	8.91	
* 30 t-Butyl alcohol-d10 (IS)	65	4.245	4.245	0.000	93	136587	50.0	50.0	
31 2-Methyl-2-propanol	59	4.361	4.361	0.000	99	487890	200.0	208.3	
32 Acrylonitrile	53	4.525	4.525	0.000	97	224355	25.0	22.8	
33 Methyl tert-butyl ether	73	4.568	4.568	0.000	89	1256566	10.0	8.99	
34 trans-1,2-Dichloroethene	96	4.580	4.580	0.000	99	503692	10.0	9.32	
35 Hexane	57	5.007	5.007	0.000	91	515669	10.0	6.60	
37 1,1-Dichloroethane	63	5.245	5.245	0.000	96	839480	10.0	8.84	
38 Isopropyl ether	45	5.312	5.312	0.000	94	1409746	10.0	8.04	
39 2-Chloro-1,3-butadiene	53	5.354	5.354	0.000	90	681347	10.0	8.74	
40 Tert-butyl ethyl ether	59	5.842	5.842	0.000	98	1432157	10.0	8.96	

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	6.049	6.049	0.000	99	1340921	100.0	98.9	
42 cis-1,2-Dichloroethene	96	6.080	6.080	0.000	80	556047	10.0	9.24	
43 2,2-Dichloropropane	77	6.092	6.092	0.000	85	733040	10.0	10.4	
45 Propionitrile	54	6.141	6.141	0.000	99	735125	200.0	210.4	
48 Methacrylonitrile	67	6.354	6.354	0.000	90	1454775	100.0	111.3	
49 Chlorobromomethane	128	6.403	6.403	0.000	88	251574	10.0	9.03	
50 Tetrahydrofuran	71	6.409	6.409	0.000	78	200551	50.0	52.0	
51 Chloroform	83	6.568	6.568	0.000	92	894133	10.0	9.45	
$ 52 Dibromofluoromethane (Surr)	113	6.775	6.775	0.000	94	572818	10.0	9.93	
53 1,1,1-Trichloroethane	97	6.781	6.781	0.000	98	783774	10.0	9.62	
54 Cyclohexane	56	6.885	6.885	0.000	89	675001	10.0	7.11	
56 Carbon tetrachloride	117	6.994	6.994	0.000	85	679967	10.0	9.48	
57 1,1-Dichloropropene	75	6.994	6.994	0.000	96	668222	10.0	9.03	
58 Isobutyl alcohol	41	7.189	7.189	0.000	91	455943	500.0	425.6	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.226	7.226	0.000	90	124581	10.0	9.71	
60 Benzene	78	7.250	7.250	0.000	96	2053662	10.0	9.10	
61 1,2-Dichloroethane	62	7.324	7.324	0.000	98	538740	10.0	8.50	
63 Tert-amyl methyl ether	73	7.446	7.446	0.000	99	1367360	10.0	9.09	
* 64 Fluorobenzene (IS)	96	7.659	7.659	0.000	99	2315186	10.0	10.0	
65 n-Heptane	43	7.671	7.671	0.000	87	538530	10.0	6.27	
67 n-Butanol	56	8.067	8.067	0.000	87	858640	875.0	1173.5	
68 Trichloroethene	95	8.134	8.134	0.000	98	548888	10.0	9.25	
69 Methylcyclohexane	83	8.445	8.445	0.000	91	756243	10.0	7.44	
70 1,2-Dichloropropane	63	8.470	8.470	0.000	97	501124	10.0	8.63	
71 2-ethoxy-2-methyl butane	87	8.482	8.482	0.000	96	782917	10.0	9.33	
72 Methyl methacrylate	69	8.555	8.555	0.000	89	277186	10.0	11.1	
74 Dibromomethane	93	8.573	8.573	0.000	96	275384	10.0	9.46	
73 1,4-Dioxane	88	8.610	8.610	0.000	62	64756	500.0	496.3	
76 Dichlorobromomethane	83	8.817	8.817	0.000	99	648366	10.0	9.35	
77 2-Nitropropane	41	9.098	9.098	0.000	99	375826	50.0	53.5	
80 1-Bromo-2-chloroethane	63	9.207	9.207	0.000	98	566737	10.0	8.96	
81 cis-1,3-Dichloropropene	75	9.366	9.366	0.000	97	789780	10.0	9.17	
82 4-Methyl-2-pentanone (MIBK)	43	9.543	9.543	0.000	95	3463777	100.0	104.0	
$ 83 Toluene-d8 (Surr)	98	9.671	9.671	0.000	92	2324790	10.0	9.77	
84 Toluene	92	9.750	9.750	0.000	98	1359325	10.0	9.30	
96 trans-1,3-Dichloropropene	75	10.006	10.006	0.000	92	683830	10.0	9.37	
98 Ethyl methacrylate	69	10.073	10.073	0.000	88	570865	10.0	9.06	
99 1,1,2-Trichloroethane	97	10.213	10.213	0.000	90	410789	10.0	9.23	
100 Tetrachloroethene	166	10.299	10.299	0.000	98	600323	10.0	8.63	
101 1,3-Dichloropropane	76	10.378	10.378	0.000	89	681485	10.0	9.06	
102 2-Hexanone	43	10.433	10.433	0.000	95	2594380	100.0	107.3	
104 Chlorodibromomethane	129	10.585	10.585	0.000	90	489096	10.0	9.11	
105 Ethylene Dibromide	107	10.695	10.695	0.000	99	401604	10.0	9.29	
* 106 Chlorobenzene-d5 (IS)	117	11.128	11.128	0.000	84	1826928	10.0	10.0	
107 1-Chlorohexane	91	11.140	11.140	0.000	95	739513	10.0	8.76	
108 Chlorobenzene	112	11.152	11.152	0.000	96	1573010	10.0	9.31	
110 1,1,1,2-Tetrachloroethane	131	11.237	11.237	0.000	96	556459	10.0	9.57	
111 Ethylbenzene	91	11.237	11.237	0.000	98	2665736	10.0	9.44	
112 m-Xylene & p-Xylene	106	11.353	11.353	0.000	100	2075499	20.0	18.9	
113 o-Xylene	106	11.683	11.683	0.000	96	1034874	10.0	9.54	
114 Styrene	104	11.695	11.695	0.000	95	1781835	10.0	9.74	
115 Bromoform	173	11.853	11.853	0.000	97	299264	10.0	8.66	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 Isopropylbenzene	105	11.981	11.981	0.000	95	2656691	10.0	9.59	
$ 119 4-Bromofluorobenzene (Surr)	95	12.121	12.121	0.000	91	884191	10.0	10.2	
120 1,1,2,2-Tetrachloroethane	83	12.225	12.225	0.000	93	543304	10.0	9.77	
121 Bromobenzene	156	12.237	12.237	0.000	97	659587	10.0	9.34	
122 trans-1,4-Dichloro-2-butene	53	12.249	12.249	0.000	93	898278	100.0	74.2	
123 1,2,3-Trichloropropane	110	12.274	12.274	0.000	83	148473	10.0	9.80	
124 N-Propylbenzene	91	12.304	12.304	0.000	99	3270717	10.0	10.2	
125 2-Chlorotoluene	126	12.384	12.384	0.000	97	651302	10.0	9.94	
126 1,3,5-Trimethylbenzene	105	12.445	12.445	0.000	95	2334244	10.0	10.1	
127 4-Chlorotoluene	126	12.475	12.475	0.000	97	685699	10.0	10.0	
128 tert-Butylbenzene	134	12.682	12.682	0.000	93	492672	10.0	9.87	
129 Pentachloroethane	167	12.713	12.713	0.000	91	420221	10.0	9.51	
130 1,2,4-Trimethylbenzene	105	12.725	12.725	0.000	97	2425059	10.0	10.2	
131 sec-Butylbenzene	105	12.847	12.847	0.000	94	2969543	10.0	10.1	
132 1,3-Dichlorobenzene	146	12.944	12.944	0.000	98	1366993	10.0	9.55	
133 4-Isopropyltoluene	119	12.951	12.951	0.000	97	2663810	10.0	10.4	
* 134 1,4-Dichlorobenzene-d4	152	12.999	12.999	0.000	93	1018962	10.0	10.0	
135 1,4-Dichlorobenzene	146	13.018	13.018	0.000	95	1396478	10.0	9.47	
136 1,2,3-Trimethylbenzene	120	13.024	13.024	0.000	98	1068404	10.0	9.71	
137 Benzyl chloride	126	13.091	13.091	0.000	98	238335	10.0	11.1	
138 p-Diethylbenzene	119	13.152	13.152	0.000	91	1571067	10.0	9.91	
139 n-Butylbenzene	92	13.243	13.243	0.000	96	1376804	10.0	10.2	
140 1,2-Dichlorobenzene	146	13.274	13.274	0.000	99	1293779	10.0	9.50	
142 1,2-Dibromo-3-Chloropropane	155	13.810	13.810	0.000	88	79841	10.0	8.93	
143 1,3,5-Trichlorobenzene	180	13.938	13.938	0.000	98	1093162	10.0	9.17	
144 1,2,4-Trichlorobenzene	180	14.353	14.353	0.000	94	971586	10.0	8.94	
145 Hexachlorobutadiene	225	14.438	14.438	0.000	97	464508	10.0	8.62	
146 Naphthalene	128	14.536	14.536	0.000	97	1801061	10.0	9.41	
147 1,2,3-Trichlorobenzene	180	14.676	14.676	0.000	96	840264	10.0	8.66	
148 2-Methylnaphthalene	142	15.285	15.285	0.000	91	947761	10.0	7.94	
160 Pentane	43	2.989	2.989	0.000	96	528117	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

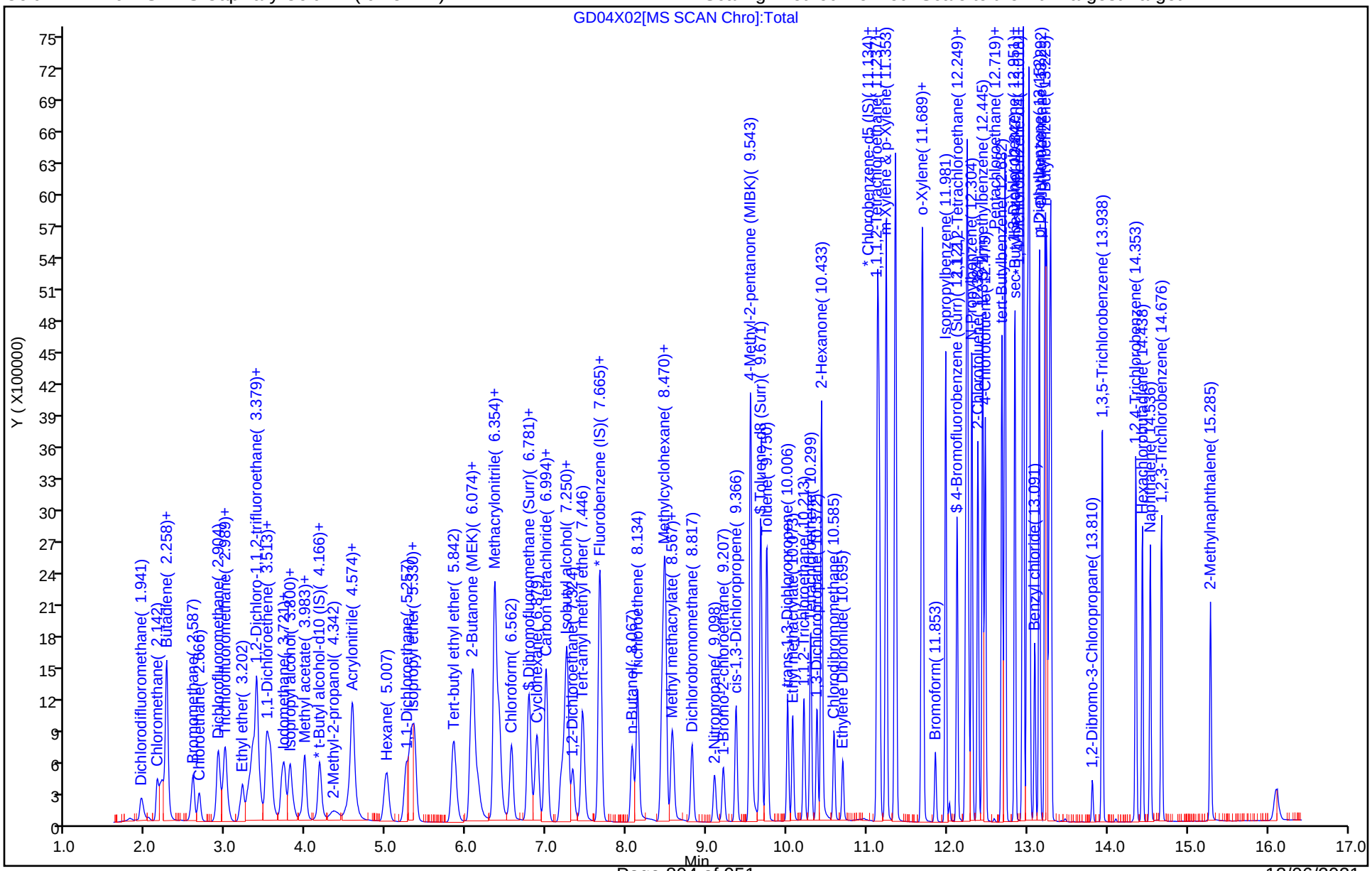
MSV_LL_#1_826_00025	Amount Added: 20.00	Units: uL	
MSV_LL_#2_826_00029	Amount Added: 20.00	Units: uL	
MSV_LL_GAS826_00052	Amount Added: 20.00	Units: uL	
MSV_29_826ISS_00026	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 04-Dec-2021 12:24:19 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04X02.D				
Injection Date:	04-Dec-2021 10:00:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	CCVIS VSTD10			Worklist Smp#:	3
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-64660-1

SDG No.:

Lab Sample ID: ICV 410-163707/19 Calibration Date: 08/24/2021 03:13

Instrument ID: 19930 Calib Start Date: 08/24/2021 00:45

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/24/2021 02:52

Lab File ID: IG23V01.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	0.3128	0.4012	0.1000	6.41	5.00	28.3	30.0
Chloromethane	Ave	0.3563	0.4028	0.1000	5.65	5.00	13.1	30.0
1,3-Butadiene	Ave	0.3273	0.3543		5.41	5.00	8.2	30.0
Vinyl chloride	Ave	0.3592	0.4047	0.1000	5.63	5.00	12.7	30.0
Bromomethane	Ave	0.2603	0.2760	0.1000	5.30	5.00	6.0	30.0
Chloroethane	Ave	0.2153	0.2327	0.1000	5.40	5.00	8.0	30.0
Dichlorofluoromethane	Ave	0.5179	0.5713		5.52	5.00	10.3	30.0
Trichlorofluoromethane	Ave	0.4629	0.5399	0.1000	5.83	5.00	16.6	30.0
Ethyl ether	Ave	0.1881	0.2057		5.49	5.02	9.4	30.0
Freon 123a	Ave	0.3316	0.3652		5.51	5.00	10.1	30.0
Acrolein	Ave	2.185	1.997		34.3	37.5	-8.6	30.0
1,1-Dichloroethene	Ave	0.2387	0.2623	0.1000	5.49	5.00	9.9	30.0
Acetone	Ave	2.778	2.636	0.1000	59.3	62.5	-5.1	30.0
Freon 113	Ave	0.2492	0.2962	0.1000	5.94	5.00	18.9	30.0
Methyl iodide	Ave	0.4771	0.4962		5.20	5.00	4.0	30.0
Ethyl bromide	Ave	0.2175	0.2179		5.08	5.07	0.2	30.0
Carbon disulfide	Ave	0.6588	0.6766	0.1000	5.13	5.00	2.7	30.0
Methyl acetate	Ave	8.176	7.833	0.1000	4.79	5.00	-4.2	30.0
Allyl chloride	Ave	0.3915	0.4032		5.15	5.00	3.0	30.0
Methylene Chloride	Ave	0.2605	0.2761	0.1000	5.30	5.00	6.0	30.0
t-Butyl alcohol	Ave	1.053	1.191		56.5	50.0	13.1	30.0
Acrylonitrile	Ave	3.702	3.627		24.5	25.0	-2.0	30.0
Methyl tert-butyl ether	Ave	0.6808	0.7048	0.1000	5.18	5.00	3.5	30.0
trans-1,2-Dichloroethene	Ave	0.2711	0.2791	0.1000	5.15	5.00	3.0	30.0
n-Hexane	Ave	0.3785	0.4044		5.34	5.00	6.8	30.0
1,1-Dichloroethane	Ave	0.4919	0.5032	0.2000	5.11	5.00	2.3	30.0
di-Isopropyl ether	Ave	0.8217	0.8382		5.10	5.00	2.0	30.0
2-Chloro-1,3-butadiene	Ave	0.4101	0.4431		5.40	5.00	8.0	30.0
Ethyl t-butyl ether	Ave	0.8035	0.8446		5.26	5.00	5.1	30.0
2-Butanone (MEK)	Ave	4.850	4.673	0.1000	60.2	62.5	-3.6	30.0
cis-1,2-Dichloroethene	Ave	0.3020	0.3231	0.1000	5.35	5.00	7.0	30.0
2,2-Dichloropropane	Ave	0.4277	0.4657		5.44	5.00	8.9	30.0
Propionitrile	Ave	1.288	1.276		37.1	37.5	-1.0	30.0
Methacrylonitrile	Ave	4.873	4.712		36.3	37.5	-3.3	30.0
Bromochloromethane	Ave	0.1303	0.1399		5.37	5.00	7.4	30.0
Tetrahydrofuran	Ave	1.439	1.378		24.0	25.0	-4.2	30.0
Chloroform	Ave	0.4873	0.5033	0.2000	5.16	5.00	3.3	30.0
1,1,1-Trichloroethane	Ave	0.4528	0.4766	0.1000	5.26	5.00	5.3	30.0
Cyclohexane	Ave	0.4489	0.4960	0.1000	5.52	5.00	10.5	30.0
1,1-Dichloropropene	Ave	0.3820	0.4120		5.39	5.00	7.9	30.0
Carbon tetrachloride	Ave	0.3908	0.4267	0.1000	5.46	5.00	9.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-64660-1

SDG No.:

Lab Sample ID: ICV 410-163707/19 Calibration Date: 08/24/2021 03:13

Instrument ID: 19930 Calib Start Date: 08/24/2021 00:45

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/24/2021 02:52

Lab File ID: IG23V01.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	0.3359	0.3165		118	125	-5.8	30.0
Benzene	Ave	1.124	1.170	0.5000	5.20	5.00	4.1	30.0
1,2-Dichloroethane	Ave	0.3046	0.3151	0.1000	5.17	5.00	3.4	30.0
t-Amyl methyl ether	Ave	0.7459	0.7680		5.15	5.00	3.0	30.0
n-Heptane	Ave	0.3892	0.3904		5.02	5.00	0.3	30.0
n-Butanol	Ave	0.3118	0.2802		225	250	-10.1	30.0
Trichloroethene	Ave	0.3022	0.3091	0.2000	5.11	5.00	2.3	30.0
Methylcyclohexane	Ave	0.5026	0.5536	0.1000	5.51	5.00	10.2	30.0
1,2-Dichloropropane	Ave	0.2761	0.2930	0.1000	5.30	5.00	6.1	30.0
Methyl methacrylate	Ave	9.578	8.737		4.56	5.00	-8.8	30.0
1,4-Dioxane	Qua		0.0634	0.0050	90.1	125	-27.9	30.0
Dibromomethane	Ave	0.1350	0.1409		5.22	5.00	4.4	30.0
Bromodichloromethane	Ave	0.3347	0.3576	0.2000	5.34	5.00	6.8	30.0
2-Nitropropane	Ave	2.740	2.491		4.55	5.00	-9.1	30.0
1-Bromo-2-chloroethane	Ave	0.2710	0.2981		5.50	5.00	10.0	30.0
cis-1,3-Dichloropropene	Ave	0.4206	0.4319	0.2000	5.14	5.00	2.7	30.0
4-Methyl-2-pentanone (MIBK)	Ave	12.21	11.92	0.1000	61.0	62.5	-2.4	30.0
Toluene	Ave	0.9586	0.9823	0.4000	5.12	5.00	2.5	30.0
trans-1,3-Dichloropropene	Ave	0.4420	0.4752	0.1000	5.38	5.00	7.5	30.0
Ethyl methacrylate	Ave	0.3689	0.3973		5.38	5.00	7.7	30.0
1,1,2-Trichloroethane	Ave	0.2557	0.2675	0.1000	5.23	5.00	4.6	30.0
Tetrachloroethene	Ave	0.4567	0.4774	0.2000	5.23	5.00	4.5	30.0
1,3-Dichloropropane	Ave	0.4348	0.4514		5.19	5.00	3.8	30.0
2-Hexanone	Ave	8.554	8.599	0.1000	62.8	62.5	0.5	30.0
Dibromochloromethane	Ave	0.3116	0.3290		5.28	5.00	5.6	30.0
1,2-Dibromoethane (EDB)	Ave	0.2467	0.2581	0.1000	5.23	5.00	4.6	30.0
1-Chlorohexane	Ave	0.5606	0.5563		4.96	5.00	-0.8	30.0
Chlorobenzene	Ave	1.062	1.085	0.5000	5.11	5.00	2.2	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3708	0.3938		5.31	5.00	6.2	30.0
Ethylbenzene	Ave	1.846	1.912	0.1000	5.18	5.00	3.6	30.0
m&p-Xylene	Ave	0.7292	0.7597	0.1000	10.4	10.0	4.2	30.0
o-Xylene	Ave	0.7197	0.7348	0.3000	5.11	5.00	2.1	30.0
Styrene	Ave	1.162	1.221	0.3000	5.26	5.00	5.1	30.0
Bromoform	Ave	0.1867	0.1983	0.1000	5.31	5.00	6.2	30.0
Isopropylbenzene	Ave	1.900	2.013	0.1000	5.30	5.00	6.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5528	0.5817	0.3000	5.26	5.00	5.2	30.0
Bromobenzene	Ave	0.7576	0.8189		5.40	5.00	8.1	30.0
trans-1,4-Dichloro-2-butene	Ave	4.418	4.184		23.7	25.0	-5.3	30.0
1,2,3-Trichloropropane	Ave	0.1520	0.1646		5.42	5.00	8.3	30.0
N-Propylbenzene	Ave	3.678	3.868		5.26	5.00	5.2	30.0
2-Chlorotoluene	Ave	0.7546	0.7854		5.20	5.00	4.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-64660-1

SDG No.:

Lab Sample ID: ICV 410-163707/19 Calibration Date: 08/24/2021 03:13

Instrument ID: 19930 Calib Start Date: 08/24/2021 00:45

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/24/2021 02:52

Lab File ID: IG23V01.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	2.686	2.787		5.19	5.00	3.8	30.0
4-Chlorotoluene	Ave	0.7706	0.7862		5.10	5.00	2.0	30.0
tert-Butylbenzene	Ave	0.5890	0.6160		5.23	5.00	4.6	30.0
Pentachloroethane	Ave	0.4757	0.5156		5.42	5.00	8.4	30.0
1,2,4-Trimethylbenzene	Ave	2.753	2.852		5.18	5.00	3.6	30.0
sec-Butylbenzene	Ave	3.394	3.596		5.30	5.00	5.9	30.0
1,3-Dichlorobenzene	Ave	1.528	1.566	0.6000	5.12	5.00	2.5	30.0
p-Isopropyltoluene	Ave	3.002	3.128		5.21	5.00	4.2	30.0
1,4-Dichlorobenzene	Ave	1.562	1.579	0.5000	5.06	5.00	1.1	30.0
1,2,3-Trimethylbenzene	Ave	1.218	1.249		5.13	5.00	2.5	30.0
Benzyl chloride	Ave	0.2262	0.2392		5.29	5.00	5.7	30.0
n-Butylbenzene	Ave	1.403	1.417		5.05	5.00	1.0	30.0
1,2-Dichlorobenzene	Ave	1.396	1.438	0.4000	5.15	5.00	3.0	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0813	0.0870	0.0500	5.35	5.00	7.0	30.0
1,3,5-Trichlorobenzene	Ave	1.118	1.122		5.02	5.00	0.3	30.0
1,2,4-Trichlorobenzene	Ave	0.9433	0.9382	0.2000	4.97	5.00	-0.5	30.0
Hexachlorobutadiene	Ave	0.4098	0.3745		4.57	5.00	-8.6	30.0
Naphthalene	Ave	1.798	1.746		4.85	5.00	-2.9	30.0
1,2,3-Trichlorobenzene	Ave	0.8152	0.7774		4.77	5.00	-4.6	30.0
Dibromofluoromethane (Surr)	Ave	0.2519	0.2541		10.1	10.0	0.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0504	0.0504		10.0	10.0	0.0	30.0
Toluene-d8 (Surr)	Ave	1.292	1.296		10.0	10.0	0.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4939	0.4907		9.94	10.0	-0.6	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23V01.D
Lims ID: ICV LG
Client ID:
Sample Type: ICV
Inject. Date: 24-Aug-2021 03:13:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0037607-019
Misc. Info.: ICV LG
Operator ID: mec29284 Instrument ID: 19930
Sublist:

Method: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 24-Aug-2021 15:57:03 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1646

First Level Reviewer: longj Date: 24-Aug-2021 16:07:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.977	1.965	0.012	99	437699	5.00	6.41	
4 Chloromethane	50	2.178	2.172	0.006	99	439513	5.00	5.65	
6 Butadiene	39	2.294	2.288	0.006	90	386504	5.00	5.41	
5 Vinyl chloride	62	2.300	2.294	0.006	73	441552	5.00	5.63	
7 Bromomethane	94	2.623	2.623	0.000	90	301136	5.00	5.30	
8 Chloroethane	64	2.708	2.709	-0.001	100	253839	5.00	5.40	
9 Dichlorofluoromethane	67	2.946	2.946	0.000	97	623302	5.00	5.52	
10 Trichlorofluoromethane	101	3.013	3.020	-0.007	97	589092	5.00	5.83	
11 Ethyl ether	59	3.263	3.257	0.006	90	225441	5.02	5.49	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.349	3.343	0.006	91	398432	5.00	5.51	
13 Acrolein	56	3.440	3.428	0.012	98	255737	37.5	34.3	
14 1,1-Dichloroethene	96	3.574	3.568	0.006	98	286176	5.00	5.49	
15 Acetone	43	3.611	3.599	0.012	100	562768	62.5	59.3	
16 112TCTFE	101	3.617	3.611	0.006	91	323206	5.00	5.94	
17 Iodomethane	142	3.775	3.769	0.006	100	541414	5.00	5.20	
18 Ethyl bromide	108	3.806	3.794	0.012	99	240936	5.07	5.08	
19 Carbon disulfide	76	3.885	3.879	0.006	99	738164	5.00	5.13	
21 Methyl acetate	43	4.037	4.038	-0.001	97	133771	5.00	4.79	
22 3-Chloro-1-propene	41	4.056	4.056	0.000	91	439940	5.00	5.15	
23 Methylene Chloride	84	4.245	4.239	0.006	90	301185	5.00	5.30	
* 24 t-Butyl alcohol-d10 (IS)	65	4.257	4.257	0.000	95	170769	50.0	50.0	
25 2-Methyl-2-propanol	59	4.397	4.397	0.000	99	203324	50.0	56.5	
26 Acrylonitrile	53	4.586	4.592	-0.006	99	309652	25.0	24.5	
27 Methyl tert-butyl ether	73	4.659	4.659	0.000	94	768950	5.00	5.18	
28 trans-1,2-Dichloroethene	96	4.671	4.672	-0.001	99	304528	5.00	5.15	
29 Hexane	57	5.092	5.086	0.006	91	441246	5.00	5.34	
31 1,1-Dichloroethane	63	5.330	5.330	0.000	96	549029	5.00	5.11	
32 Isopropyl ether	45	5.385	5.385	0.000	94	914534	5.00	5.10	
33 2-Chloro-1,3-butadiene	53	5.440	5.434	0.006	91	483480	5.00	5.40	
34 Tert-butyl ethyl ether	59	5.921	5.915	0.006	97	921451	5.00	5.26	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.116	6.116	0.000	99	997599	62.5	60.2	
37 cis-1,2-Dichloroethene	96	6.159	6.159	0.000	82	352537	5.00	5.35	
38 2,2-Dichloropropane	77	6.171	6.171	0.000	90	508145	5.00	5.44	
40 Propionitrile	54	6.208	6.208	0.000	98	163382	37.5	37.1	
42 Methacrylonitrile	67	6.421	6.415	0.006	91	603546	37.5	36.3	
43 Chlorobromomethane	128	6.494	6.482	0.012	91	152671	5.00	5.37	
44 Tetrahydrofuran	71	6.494	6.494	0.000	80	117689	25.0	24.0	
45 Chloroform	83	6.641	6.635	0.006	93	549073	5.00	5.16	
$ 46 Dibromofluoromethane (Surr)	113	6.848	6.848	0.000	94	554531	10.0	10.1	
47 1,1,1-Trichloroethane	97	6.866	6.860	0.006	98	519977	5.00	5.26	
48 Cyclohexane	56	6.964	6.964	0.000	89	541150	5.00	5.52	
50 Carbon tetrachloride	117	7.080	7.067	0.013	90	465504	5.00	5.46	
51 1,1-Dichloropropene	75	7.073	7.074	-0.001	96	449547	5.00	5.39	
52 Isobutyl alcohol	41	7.214	7.214	0.000	94	135141	125.0	117.8	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.305	7.299	0.006	93	110057	10.0	10.0	
54 Benzene	78	7.336	7.336	0.000	96	1276844	5.00	5.20	
56 1,2-Dichloroethane	62	7.409	7.409	0.000	97	343788	5.00	5.17	
57 Tert-amyl methyl ether	73	7.518	7.519	-0.001	99	837925	5.00	5.15	
* 58 Fluorobenzene (IS)	96	7.738	7.732	0.006	99	2182088	10.0	10.0	
59 n-Heptane	43	7.744	7.744	0.000	92	425979	5.00	5.02	
60 n-Butanol	56	8.092	8.098	-0.006	88	239239	250.0	224.6	
61 Trichloroethene	95	8.213	8.214	-0.001	97	337234	5.00	5.11	
62 Methylcyclohexane	83	8.524	8.525	-0.001	93	604005	5.00	5.51	
63 1,2-Dichloropropane	63	8.543	8.543	0.000	82	319656	5.00	5.30	
64 Methyl methacrylate	69	8.628	8.628	0.000	88	149196	5.00	4.56	
65 1,4-Dioxane	88	8.634	8.640	-0.006	31	27070	125.0	90.1	M
66 Dibromomethane	93	8.652	8.653	-0.001	93	153739	5.00	5.22	
68 Dichlorobromomethane	83	8.890	8.890	0.000	99	390138	5.00	5.34	
69 2-Nitropropane	41	9.152	9.152	0.000	98	42545	5.00	4.55	
72 1-Bromo-2-chloroethane	63	9.280	9.280	0.000	99	325188	5.00	5.50	
73 cis-1,3-Dichloropropene	75	9.433	9.433	0.000	96	471258	5.00	5.14	
74 4-Methyl-2-pentanone (MIBK)	43	9.597	9.597	0.000	96	2543694	62.5	61.0	
$ 75 Toluene-d8 (Surr)	98	9.738	9.738	0.000	93	2195010	10.0	10.0	
76 Toluene	92	9.811	9.811	0.000	98	831998	5.00	5.12	
78 trans-1,3-Dichloropropene	75	10.067	10.067	0.000	92	402527	5.00	5.38	
79 Ethyl methacrylate	69	10.128	10.128	0.000	88	336492	5.00	5.38	
80 1,1,2-Trichloroethane	97	10.268	10.268	0.000	90	226603	5.00	5.23	
81 Tetrachloroethene	166	10.359	10.360	-0.001	98	404374	5.00	5.23	
82 1,3-Dichloropropane	76	10.433	10.433	0.000	88	382334	5.00	5.19	
83 2-Hexanone	43	10.481	10.481	0.000	96	1835506	62.5	62.8	
85 Chlorodibromomethane	129	10.646	10.646	0.000	90	278622	5.00	5.28	
86 Ethylene Dibromide	107	10.756	10.756	0.000	98	218638	5.00	5.23	
* 87 Chlorobenzene-d5 (IS)	117	11.182	11.183	-0.001	86	1693972	10.0	10.0	
88 1-Chlorohexane	91	11.188	11.189	-0.001	96	471211	5.00	4.96	
90 Chlorobenzene	112	11.213	11.213	0.000	95	919057	5.00	5.11	
91 1,1,1,2-Tetrachloroethane	131	11.292	11.292	0.000	95	333557	5.00	5.31	
92 Ethylbenzene	91	11.298	11.298	0.000	98	1619334	5.00	5.18	
93 m-Xylene & p-Xylene	106	11.408	11.408	0.000	100	1286861	10.0	10.4	
94 o-Xylene	106	11.737	11.737	0.000	96	622361	5.00	5.11	
95 Styrene	104	11.755	11.756	-0.001	95	1034424	5.00	5.26	
96 Bromoform	173	11.914	11.914	0.000	97	167946	5.00	5.31	
97 Isopropylbenzene	105	12.036	12.036	0.000	95	1705372	5.00	5.30	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 100 4-Bromofluorobenzene (Surr)	95	12.182	12.182	0.000	93	831259	10.0	9.94	
101 1,1,2,2-Tetrachloroethane	83	12.280	12.280	0.000	94	289381	5.00	5.26	
102 Bromobenzene	156	12.298	12.298	0.000	97	407348	5.00	5.40	
103 trans-1,4-Dichloro-2-butene	53	12.304	12.304	0.000	89	357283	25.0	23.7	
104 1,2,3-Trichloropropane	110	12.329	12.329	-0.001	83	81877	5.00	5.42	
105 N-Propylbenzene	91	12.365	12.365	0.000	99	1924114	5.00	5.26	
106 2-Chlorotoluene	126	12.444	12.444	0.000	97	390702	5.00	5.20	
107 1,3,5-Trimethylbenzene	105	12.499	12.499	0.000	94	1386314	5.00	5.19	
108 4-Chlorotoluene	126	12.536	12.536	0.000	97	391109	5.00	5.10	
109 tert-Butylbenzene	134	12.743	12.743	0.000	93	306426	5.00	5.23	
110 Pentachloroethane	167	12.774	12.774	0.000	93	256460	5.00	5.42	
111 1,2,4-Trimethylbenzene	105	12.786	12.786	0.000	97	1418708	5.00	5.18	
112 sec-Butylbenzene	105	12.908	12.902	0.006	94	1788570	5.00	5.30	
113 1,3-Dichlorobenzene	146	13.005	13.005	0.000	98	778901	5.00	5.12	
114 4-Isopropyltoluene	119	13.011	13.011	0.000	97	1555925	5.00	5.21	
* 115 1,4-Dichlorobenzene-d4	152	13.060	13.060	0.000	94	994893	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.078	13.079	-0.001	95	785427	5.00	5.06	
117 1,2,3-Trimethylbenzene	120	13.091	13.085	0.006	98	621165	5.00	5.13	
118 Benzyl chloride	126	13.158	13.158	0.000	98	118974	5.00	5.29	
119 n-Butylbenzene	92	13.304	13.304	0.000	97	704682	5.00	5.05	
120 1,2-Dichlorobenzene	146	13.341	13.341	-0.001	99	715454	5.00	5.15	
122 1,2-Dibromo-3-Chloropropane	155	13.883	13.883	0.000	88	43268	5.00	5.35	
123 1,3,5-Trichlorobenzene	180	14.005	14.005	0.000	98	557931	5.00	5.02	
124 1,2,4-Trichlorobenzene	180	14.432	14.432	0.000	94	466716	5.00	4.97	
125 Hexachlorobutadiene	225	14.511	14.511	0.000	96	186275	5.00	4.57	
126 Naphthalene	128	14.609	14.609	0.000	97	868382	5.00	4.85	
127 1,2,3-Trichlorobenzene	180	14.755	14.755	0.000	95	386694	5.00	4.77	
134 Isopropyl alcohol	45		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
137 2-Methylnaphthalene	142		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_Q_EE_00004	Amount Added:	12.50	Units: uL	
MSV_LCS_VOC#1_00015	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00017	Amount Added:	12.50	Units: uL	
MSV_LCS_Penta_00006	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00026	Amount Added:	12.50	Units: uL	
MSV_Q_ETBR_00008	Amount Added:	12.50	Units: uL	
MSV_LLcentISS_00001	Amount Added:	5.00	Units: uL	Run Reagent

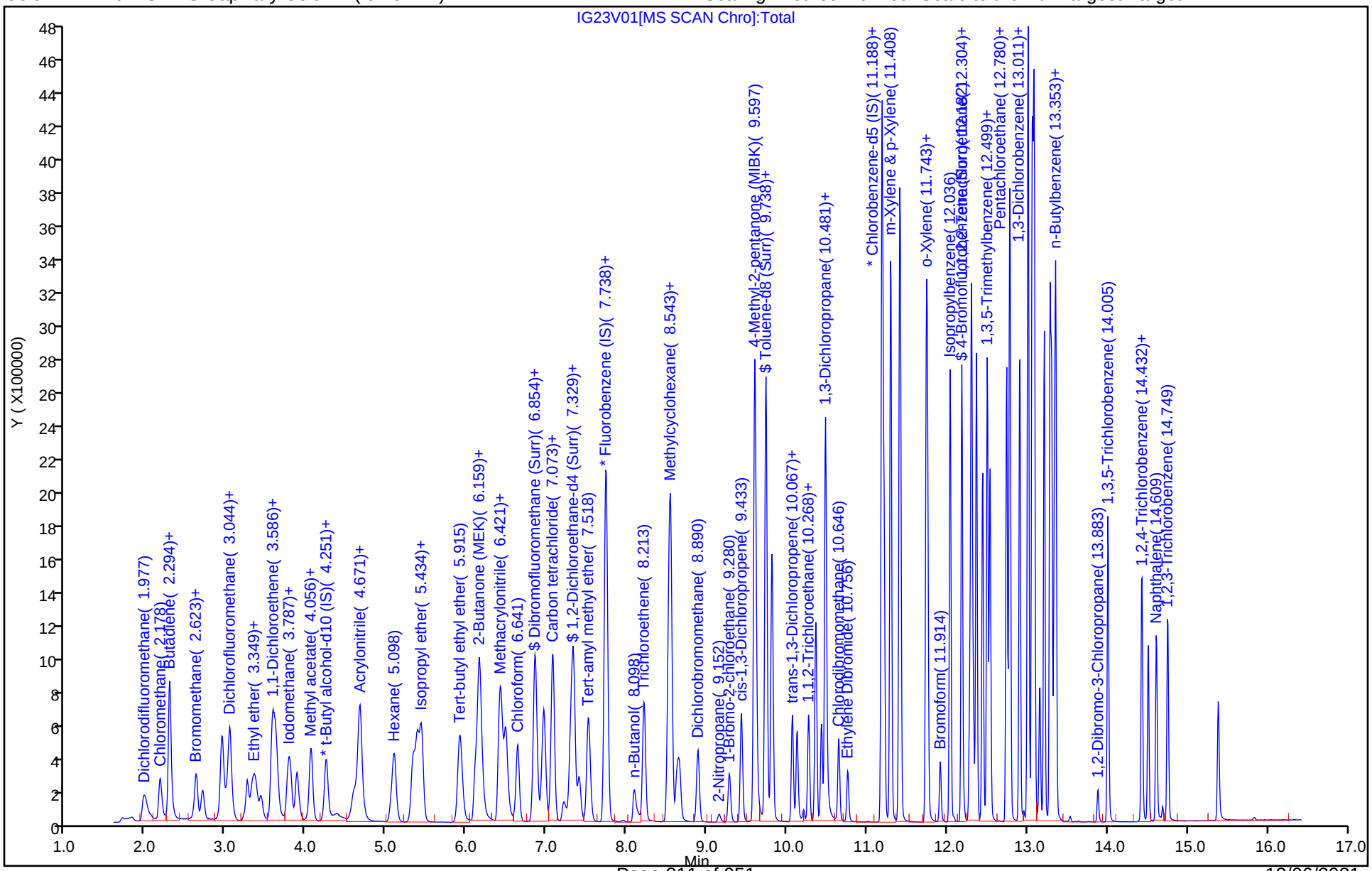
Report Date: 24-Aug-2021 16:07:56 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23V01.D

Injection Date:	24-Aug-2021 03:13:30	Instrument ID:	19930	Operator ID:	mec29284
Lims ID:	ICV LG			Worklist Smp#:	19
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

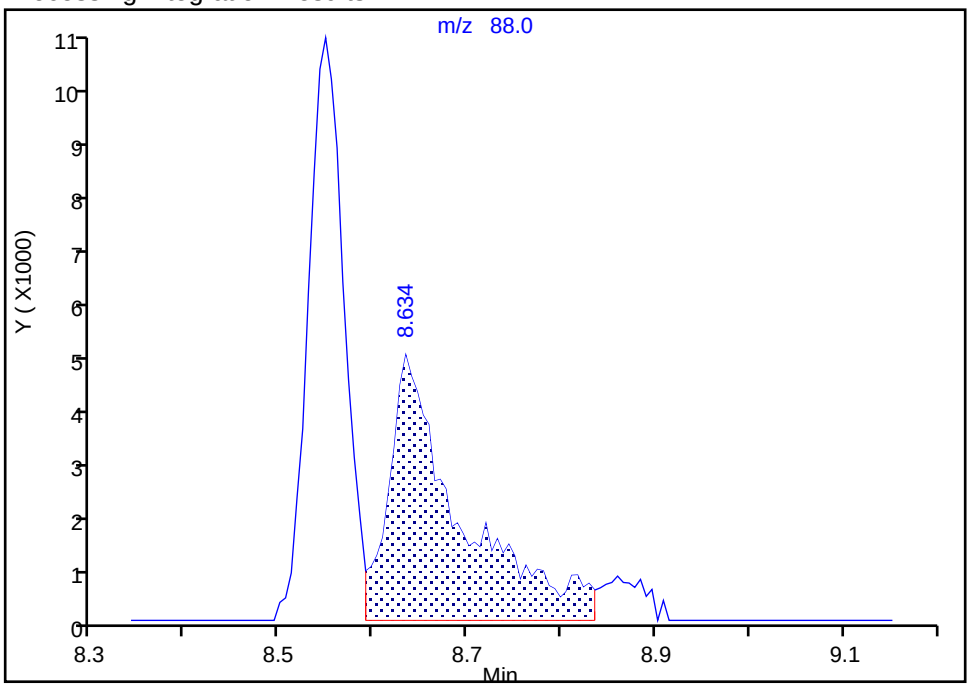
Data File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23V01.D				
Injection Date:	24-Aug-2021 03:13:30	Instrument ID:	19930		
Lims ID:	ICV LG				
Client ID:					
Operator ID:	mec29284	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

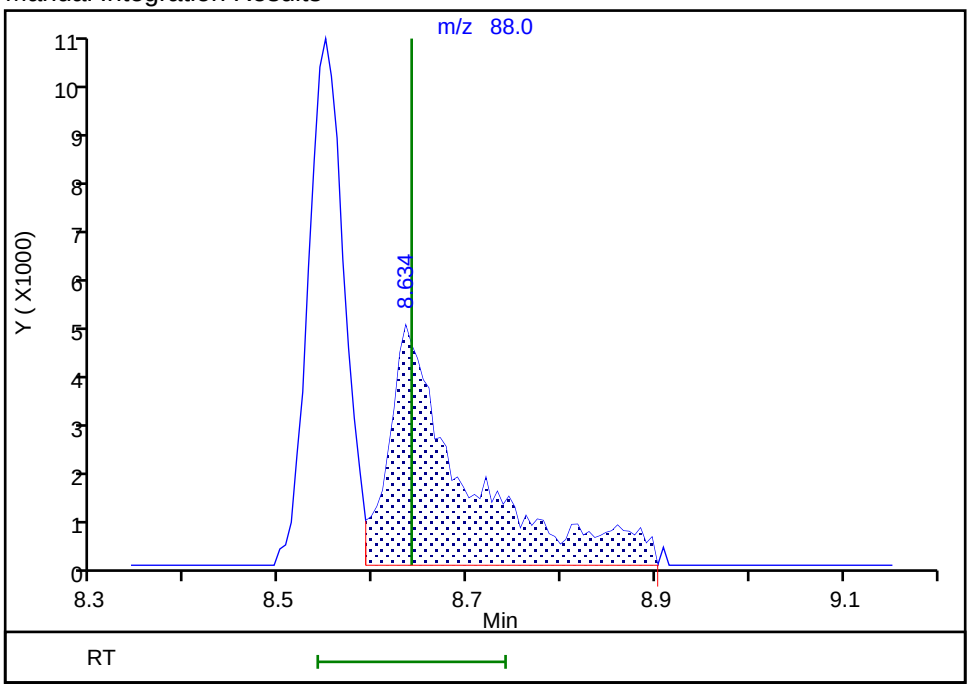
Processing Integration Results

RT: 8.63
Area: 24779
Amount: 87.218368
Amount Units: ug/l



Manual Integration Results

RT: 8.63
Area: 27070
Amount: 90.099969
Amount Units: ug/l



Reviewer: longj, 24-Aug-2021 15:37:39
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-64660-1

SDG No.:

Lab Sample ID: CCVIS 410-200572/3 Calibration Date: 12/02/2021 10:44

Instrument ID: 19930 Calib Start Date: 08/24/2021 00:45

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/24/2021 02:52

Lab File ID: ID02X02.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	0.3128	0.2691	0.1000	10.8	12.5	-14.0	20.0
Chloromethane	Ave	0.3563	0.3507	0.1000	12.3	12.5	-1.6	20.0
1,3-Butadiene	Ave	0.3273	0.4770		18.2	12.5	45.7*	20.0
Vinyl chloride	Ave	0.3592	0.3512	0.1000	12.2	12.5	-2.3	20.0
Bromomethane	Ave	0.2603	0.2563	0.1000	12.3	12.5	-1.5	20.0
Chloroethane	Ave	0.2153	0.2119	0.1000	12.3	12.5	-1.6	20.0
Dichlorofluoromethane	Ave	0.5179	0.5078		12.3	12.5	-1.9	20.0
Trichlorofluoromethane	Ave	0.4629	0.4538	0.1000	12.3	12.5	-2.0	20.0
Ethyl ether	Ave	0.1881	0.2062		13.7	12.5	9.6	20.0
Freon 123a	Ave	0.3316	0.3521		13.3	12.5	6.2	20.0
Acrolein	Ave	2.185	2.891		829	626	32.3*	20.0
1,1-Dichloroethene	Ave	0.2387	0.2682	0.1000	14.0	12.5	12.4	20.0
Acetone	Ave	2.778	2.829	0.1000	127	125	1.9	20.0
Freon 113	Ave	0.2492	0.2249	0.1000	11.3	12.5	-9.8	20.0
Methyl iodide	Ave	0.4771	0.4853		12.7	12.5	1.7	20.0
Ethyl bromide	Ave	0.2175	0.2411		13.8	12.5	10.9	20.0
Carbon disulfide	Ave	0.6588	0.6585	0.1000	12.5	12.5	-0.0	20.0
Methyl acetate	Ave	8.176	13.52	0.1000	20.7	12.5	65.4*	20.0
Allyl chloride	Ave	0.3915	0.3808		12.2	12.5	-2.7	20.0
Methylene Chloride	Ave	0.2605	0.2933	0.1000	14.1	12.5	12.6	20.0
t-Butyl alcohol	Ave	1.053	0.7845		186	250	-25.5*	20.0
Acrylonitrile	Ave	3.702	5.024		42.4	31.3	35.7*	20.0
Methyl tert-butyl ether	Ave	0.6808	0.7120	0.1000	13.1	12.5	4.6	20.0
trans-1,2-Dichloroethene	Ave	0.2711	0.3020	0.1000	13.9	12.5	11.4	20.0
n-Hexane	Ave	0.3785	0.3243		10.7	12.5	-14.3	20.0
1,1-Dichloroethane	Ave	0.4919	0.5471	0.2000	13.9	12.5	11.2	20.0
di-Isopropyl ether	Ave	0.8217	0.8588		13.1	12.5	4.5	20.0
2-Chloro-1,3-butadiene	Ave	0.4101	0.4280		13.0	12.5	4.4	20.0
Ethyl t-butyl ether	Ave	0.8035	0.8023		12.5	12.5	-0.2	20.0
2-Butanone (MEK)	Ave	4.850	6.287	0.1000	162	125	29.6*	20.0
cis-1,2-Dichloroethene	Ave	0.3020	0.3383	0.1000	14.0	12.5	12.0	20.0
2,2-Dichloropropane	Ave	0.4277	0.4683		13.7	12.5	9.5	20.0
Propionitrile	Ave	1.288	1.838		357	250	42.7*	20.0
Methacrylonitrile	Ave	4.873	6.968		179	125	43.0*	20.0
Bromochloromethane	Ave	0.1303	0.1445		13.9	12.5	10.9	20.0
Tetrahydrofuran	Ave	1.439	1.999		86.8	62.5	38.9*	20.0
Chloroform	Ave	0.4873	0.5340	0.2000	13.7	12.5	9.6	20.0
1,1,1-Trichloroethane	Ave	0.4528	0.5012	0.1000	13.8	12.5	10.7	20.0
Cyclohexane	Ave	0.4489	0.4354	0.1000	12.1	12.5	-3.0	20.0
1,1-Dichloropropene	Ave	0.3820	0.4289		14.0	12.5	12.3	20.0
Carbon tetrachloride	Ave	0.3908	0.4327	0.1000	13.8	12.5	10.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-64660-1

SDG No.:

Lab Sample ID: CCVIS 410-200572/3 Calibration Date: 12/02/2021 10:44

Instrument ID: 19930 Calib Start Date: 08/24/2021 00:45

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/24/2021 02:52

Lab File ID: ID02X02.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	0.3359	0.3178		591	625	-5.4	20.0
Benzene	Ave	1.124	1.265	0.5000	14.1	12.5	12.5	20.0
1,2-Dichloroethane	Ave	0.3046	0.3188	0.1000	13.1	12.5	4.6	20.0
t-Amyl methyl ether	Ave	0.7459	0.7317		12.3	12.5	-1.9	20.0
n-Heptane	Ave	0.3892	0.3197		10.3	12.5	-17.9	20.0
n-Butanol	Ave	0.3118	0.2928		1030	1090	-6.1	20.0
Trichloroethene	Ave	0.3022	0.3443	0.2000	14.2	12.5	13.9	20.0
Methylcyclohexane	Ave	0.5026	0.4757	0.1000	11.8	12.5	-5.3	20.0
1,2-Dichloropropane	Ave	0.2761	0.3161	0.1000	14.3	12.5	14.5	20.0
Methyl methacrylate	Ave	9.578	13.47		17.6	12.5	40.6*	20.0
Dibromomethane	Ave	0.1350	0.1496		13.9	12.5	10.9	20.0
1,4-Dioxane	Qua		0.0650	0.0050	439	625	-29.7*	20.0
Bromodichloromethane	Ave	0.3347	0.3749	0.2000	14.0	12.5	12.0	20.0
2-Nitropropane	Ave	2.740	3.530		80.5	62.5	28.8*	20.0
1-Bromo-2-chloroethane	Ave	0.2710	0.3333		15.4	12.5	23.0*	20.0
cis-1,3-Dichloropropene	Ave	0.4206	0.4758	0.2000	14.1	12.5	13.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	12.21	16.99	0.1000	174	125	39.1*	20.0
Toluene	Ave	0.9586	1.044	0.4000	13.6	12.5	8.9	20.0
trans-1,3-Dichloropropene	Ave	0.4420	0.4778	0.1000	13.5	12.5	8.1	20.0
Ethyl methacrylate	Ave	0.3689	0.3927		13.3	12.5	6.4	20.0
1,1,2-Trichloroethane	Ave	0.2557	0.2791	0.1000	13.6	12.5	9.2	20.0
Tetrachloroethene	Ave	0.4567	0.5039	0.2000	13.8	12.5	10.3	20.0
1,3-Dichloropropane	Ave	0.4348	0.4701		13.5	12.5	8.1	20.0
2-Hexanone	Ave	8.554	11.79	0.1000	172	125	37.9*	20.0
Dibromochloromethane	Ave	0.3116	0.3446		13.8	12.5	10.6	20.0
1,2-Dibromoethane (EDB)	Ave	0.2467	0.2684	0.1000	13.6	12.5	8.8	20.0
1-Chlorohexane	Ave	0.5606	0.5787		12.9	12.5	3.2	20.0
Chlorobenzene	Ave	1.062	1.147	0.5000	13.5	12.5	8.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3708	0.4009		13.5	12.5	8.1	20.0
Ethylbenzene	Ave	1.846	2.017	0.1000	13.7	12.5	9.2	20.0
m&p-Xylene	Ave	0.7292	0.7984	0.1000	27.4	25.0	9.5	20.0
o-Xylene	Ave	0.7197	0.7838	0.3000	13.6	12.5	8.9	20.0
Styrene	Ave	1.162	1.277	0.3000	13.7	12.5	10.0	20.0
Bromoform	Ave	0.1867	0.2031	0.1000	13.6	12.5	8.8	20.0
Isopropylbenzene	Ave	1.900	2.065	0.1000	13.6	12.5	8.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5528	0.6148	0.3000	13.9	12.5	11.2	20.0
Bromobenzene	Ave	0.7576	0.8309		13.7	12.5	9.7	20.0
trans-1,4-Dichloro-2-butene	Ave	4.418	5.251		149	125	18.9	20.0
1,2,3-Trichloropropane	Ave	0.1520	0.1681		13.8	12.5	10.6	20.0
N-Propylbenzene	Ave	3.678	4.145		14.1	12.5	12.7	20.0
2-Chlorotoluene	Ave	0.7546	0.8466		14.0	12.5	12.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-64660-1

SDG No.:

Lab Sample ID: CCVIS 410-200572/3 Calibration Date: 12/02/2021 10:44

Instrument ID: 19930 Calib Start Date: 08/24/2021 00:45

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/24/2021 02:52

Lab File ID: ID02X02.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	2.686	3.003		14.0	12.5	11.8	20.0
4-Chlorotoluene	Ave	0.7706	0.8523		13.8	12.5	10.6	20.0
tert-Butylbenzene	Ave	0.5890	0.6658		14.1	12.5	13.0	20.0
Pentachloroethane	Ave	0.4757	0.5298		13.9	12.5	11.4	20.0
1,2,4-Trimethylbenzene	Ave	2.753	3.048		13.8	12.5	10.7	20.0
sec-Butylbenzene	Ave	3.394	3.785		13.9	12.5	11.5	20.0
1,3-Dichlorobenzene	Ave	1.528	1.671	0.6000	13.7	12.5	9.4	20.0
p-Isopropyltoluene	Ave	3.002	3.309		13.8	12.5	10.2	20.0
1,4-Dichlorobenzene	Ave	1.562	1.661	0.5000	13.3	12.5	6.4	20.0
1,2,3-Trimethylbenzene	Ave	1.218	1.304		13.4	12.5	7.0	20.0
Benzyl chloride	Ave	0.2262	0.2620		14.5	12.5	15.8	20.0
n-Butylbenzene	Ave	1.403	1.567		14.0	12.5	11.7	20.0
1,2-Dichlorobenzene	Ave	1.396	1.517	0.4000	13.6	12.5	8.7	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0813	0.0964	0.0500	14.8	12.5	18.5	20.0
1,3,5-Trichlorobenzene	Ave	1.118	1.212		13.6	12.5	8.4	20.0
1,2,4-Trichlorobenzene	Ave	0.9433	1.049	0.2000	13.9	12.5	11.2	20.0
Hexachlorobutadiene	Ave	0.4098	0.4175		12.7	12.5	1.9	20.0
Naphthalene	Ave	1.798	1.965		13.7	12.5	9.3	20.0
1,2,3-Trichlorobenzene	Ave	0.8152	0.8727		13.4	12.5	7.1	20.0
Dibromofluoromethane (Surr)	Ave	0.2519	0.2533		10.1	10.0	0.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0504	0.0506		10.0	10.0	0.3	20.0
Toluene-d8 (Surr)	Ave	1.292	1.308		10.1	10.0	1.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4939	0.4972		10.1	10.0	0.7	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X02.D
Lims ID: CCVIS VSTD12.5
Client ID:
Sample Type: CCVIS
Inject. Date: 02-Dec-2021 10:44:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045241-003
Misc. Info.: CCVIS VSTD12.5
Operator ID: KNK41612 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 02-Dec-2021 15:25:14 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1637

First Level Reviewer: kephartk Date: 02-Dec-2021 11:44:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.965	1.965	0.000	99	817915	12.5	10.8	
4 Chloromethane	50	2.166	2.166	0.000	99	1066056	12.5	12.3	
6 Butadiene	39	2.276	2.276	0.000	89	1450026	12.5	18.2	
5 Vinyl chloride	62	2.282	2.282	0.000	98	1067417	12.5	12.2	
7 Bromomethane	94	2.611	2.611	0.000	90	779166	12.5	12.3	
8 Chloroethane	64	2.690	2.690	0.000	100	643987	12.5	12.3	
9 Dichlorofluoromethane	67	2.922	2.922	0.000	97	1543555	12.5	12.3	
10 Trichlorofluoromethane	101	2.995	2.995	0.000	98	1379289	12.5	12.3	
11 Ethyl ether	59	3.227	3.227	0.000	90	626709	12.5	13.7	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.318	3.318	0.000	91	1070193	12.5	13.3	
13 Acrolein	56	3.404	3.404	0.000	98	4852763	626.3	828.7	
14 1,1-Dichloroethene	96	3.538	3.538	0.000	98	815130	12.5	14.0	
15 Acetone	43	3.574	3.574	0.000	71	947687	125.0	127.3	
16 112TCTFE	101	3.580	3.580	0.000	90	683573	12.5	11.3	
17 Iodomethane	142	3.739	3.739	0.000	98	1475013	12.5	12.7	
18 Ethyl bromide	108	3.763	3.763	0.000	98	732543	12.5	13.8	
19 Carbon disulfide	76	3.842	3.842	0.000	99	2001556	12.5	12.5	
21 Methyl acetate	43	3.983	3.983	0.000	97	452866	12.5	20.7	
22 3-Chloro-1-propene	41	4.013	4.013	0.000	91	1157573	12.5	12.2	
23 Methylene Chloride	84	4.202	4.202	0.000	90	891613	12.5	14.1	
* 24 t-Butyl alcohol-d10 (IS)	65	4.288	4.288	0.000	95	133978	50.0	50.0	
25 2-Methyl-2-propanol	59	4.397	4.397	0.000	100	525532	250.0	186.3	
26 Acrylonitrile	53	4.531	4.531	0.000	100	420688	31.3	42.4	
27 Methyl tert-butyl ether	73	4.605	4.605	0.000	94	2164284	12.5	13.1	
28 trans-1,2-Dichloroethene	96	4.617	4.617	0.000	99	918026	12.5	13.9	
29 Hexane	57	5.043	5.043	0.000	89	985824	12.5	10.7	
31 1,1-Dichloroethane	63	5.275	5.275	0.000	96	1662941	12.5	13.9	
32 Isopropyl ether	45	5.330	5.330	0.000	94	2610385	12.5	13.1	
33 2-Chloro-1,3-butadiene	53	5.385	5.385	0.000	90	1301015	12.5	13.0	
34 Tert-butyl ethyl ether	59	5.873	5.873	0.000	97	2438649	12.5	12.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.080	6.080	0.000	99	2105747	125.0	162.0	
37 cis-1,2-Dichloroethene	96	6.110	6.110	0.000	81	1028417	12.5	14.0	
38 2,2-Dichloropropane	77	6.129	6.129	0.000	86	1423573	12.5	13.7	
40 Propionitrile	54	6.177	6.177	0.000	98	1231086	250.0	356.7	
42 Methacrylonitrile	67	6.372	6.372	0.000	90	2333991	125.0	178.7	
43 Chlorobromomethane	128	6.440	6.440	0.000	90	439354	12.5	13.9	
44 Tetrahydrofuran	71	6.452	6.452	0.000	77	334732	62.5	86.8	
45 Chloroform	83	6.592	6.592	0.000	93	1623311	12.5	13.7	
$ 46 Dibromofluoromethane (Surr)	113	6.805	6.805	0.000	94	615901	10.0	10.1	
47 1,1,1-Trichloroethane	97	6.818	6.818	0.000	98	1523394	12.5	13.8	
48 Cyclohexane	56	6.921	6.921	0.000	88	1323417	12.5	12.1	
51 1,1-Dichloropropene	75	7.031	7.031	0.000	96	1303758	12.5	14.0	
50 Carbon tetrachloride	117	7.031	7.031	0.000	84	1315368	12.5	13.8	
52 Isobutyl alcohol	41	7.214	7.214	0.000	94	532281	625.0	591.3	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.263	7.263	0.000	93	122968	10.0	10.0	
54 Benzene	78	7.293	7.293	0.000	96	3844046	12.5	14.1	
56 1,2-Dichloroethane	62	7.366	7.366	0.000	98	969002	12.5	13.1	
57 Tert-amyl methyl ether	73	7.482	7.482	0.000	99	2224174	12.5	12.3	
* 58 Fluorobenzene (IS)	96	7.695	7.695	0.000	99	2431739	10.0	10.0	
59 n-Heptane	43	7.708	7.708	0.000	89	971752	12.5	10.3	
60 n-Butanol	56	8.086	8.086	0.000	86	858213	1093.8	1027.1	
61 Trichloroethene	95	8.177	8.177	0.000	97	1046578	12.5	14.2	
62 Methylcyclohexane	83	8.488	8.488	0.000	92	1446065	12.5	11.8	
63 1,2-Dichloropropane	63	8.506	8.506	0.000	86	960752	12.5	14.3	
64 Methyl methacrylate	69	8.585	8.585	0.000	88	451107	12.5	17.6	
66 Dibromomethane	93	8.616	8.616	0.000	93	454752	12.5	13.9	
65 1,4-Dioxane	88	8.634	8.634	0.000	76	108910	625.0	439.3	
68 Dichlorobromomethane	83	8.854	8.854	0.000	100	1139647	12.5	14.0	
69 2-Nitropropane	41	9.116	9.116	0.000	98	591106	62.5	80.5	
72 1-Bromo-2-chloroethane	63	9.244	9.244	0.000	98	1013216	12.5	15.4	
73 cis-1,3-Dichloropropene	75	9.396	9.396	0.000	97	1446358	12.5	14.1	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	95	5689272	125.0	173.9	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2558268	10.0	10.1	
76 Toluene	92	9.786	9.786	0.000	98	2551804	12.5	13.6	
78 trans-1,3-Dichloropropene	75	10.042	10.042	0.000	91	1167766	12.5	13.5	
79 Ethyl methacrylate	69	10.103	10.103	0.000	87	959696	12.5	13.3	
80 1,1,2-Trichloroethane	97	10.244	10.244	0.000	90	682176	12.5	13.6	
81 Tetrachloroethene	166	10.335	10.335	0.000	98	1231473	12.5	13.8	
82 1,3-Dichloropropane	76	10.408	10.408	0.000	87	1148965	12.5	13.5	
83 2-Hexanone	43	10.457	10.457	0.000	95	3949836	125.0	172.3	
85 Chlorodibromomethane	129	10.622	10.622	0.000	89	842313	12.5	13.8	
86 Ethylene Dibromide	107	10.737	10.737	0.000	99	656085	12.5	13.6	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	1955286	10.0	10.0	
88 1-Chlorohexane	91	11.170	11.170	0.000	95	1414426	12.5	12.9	
90 Chlorobenzene	112	11.189	11.189	0.000	96	2802699	12.5	13.5	
91 1,1,1,2-Tetrachloroethane	131	11.274	11.274	0.000	96	979811	12.5	13.5	
92 Ethylbenzene	91	11.274	11.274	0.000	98	4928754	12.5	13.7	
93 m-Xylene & p-Xylene	106	11.390	11.390	0.000	100	3902587	25.0	27.4	
94 o-Xylene	106	11.719	11.719	0.000	96	1915743	12.5	13.6	
95 Styrene	104	11.731	11.731	0.000	95	3122289	12.5	13.7	
96 Bromoform	173	11.896	11.896	0.000	99	496373	12.5	13.6	
97 Isopropylbenzene	105	12.018	12.018	0.000	95	5047811	12.5	13.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	93	972247	10.0	10.1	
101 1,1,2,2-Tetrachloroethane	83	12.262	12.262	0.000	94	858914	12.5	13.9	
102 Bromobenzene	156	12.280	12.280	0.000	97	1160801	12.5	13.7	
103 trans-1,4-Dichloro-2-butene	53	12.286	12.286	0.000	91	1758943	125.0	148.6	
104 1,2,3-Trichloropropane	110	12.310	12.310	0.000	83	234789	12.5	13.8	
105 N-Propylbenzene	91	12.347	12.347	0.000	99	5790678	12.5	14.1	
106 2-Chlorotoluene	126	12.426	12.426	0.000	97	1182739	12.5	14.0	
107 1,3,5-Trimethylbenzene	105	12.481	12.481	0.000	94	4195509	12.5	14.0	
108 4-Chlorotoluene	126	12.518	12.518	0.000	97	1190702	12.5	13.8	
109 tert-Butylbenzene	134	12.725	12.725	0.000	92	930200	12.5	14.1	
110 Pentachloroethane	167	12.755	12.755	0.000	93	740197	12.5	13.9	
111 1,2,4-Trimethylbenzene	105	12.768	12.768	0.000	97	4259002	12.5	13.8	
112 sec-Butylbenzene	105	12.889	12.889	0.000	94	5287681	12.5	13.9	
113 1,3-Dichlorobenzene	146	12.987	12.987	0.000	98	2334121	12.5	13.7	
114 4-Isopropyltoluene	119	12.993	12.993	0.000	97	4622685	12.5	13.8	
* 115 1,4-Dichlorobenzene-d4	152	13.042	13.042	0.000	93	1117669	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.060	13.060	0.000	95	2321153	12.5	13.3	
117 1,2,3-Trimethylbenzene	120	13.066	13.066	0.000	98	1821529	12.5	13.4	
118 Benzyl chloride	126	13.133	13.133	0.000	98	366037	12.5	14.5	
119 n-Butylbenzene	92	13.286	13.286	0.000	97	2188823	12.5	14.0	
120 1,2-Dichlorobenzene	146	13.316	13.316	0.000	99	2119095	12.5	13.6	
122 1,2-Dibromo-3-Chloropropane	155	13.859	13.859	0.000	90	134616	12.5	14.8	
123 1,3,5-Trichlorobenzene	180	13.987	13.987	0.000	98	1693267	12.5	13.6	
124 1,2,4-Trichlorobenzene	180	14.407	14.407	0.000	94	1465325	12.5	13.9	
125 Hexachlorobutadiene	225	14.493	14.493	0.000	96	583225	12.5	12.7	
126 Naphthalene	128	14.590	14.590	0.000	97	2744746	12.5	13.7	
127 1,2,3-Trichlorobenzene	180	14.731	14.731	0.000	96	1219300	12.5	13.4	
134 Isopropyl alcohol	45		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
137 2-Methylnaphthalene	142		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MSV_LL_#1_826_00025	Amount Added:	25.00	Units: uL	
MSV_LL_#2_826_00029	Amount Added:	25.00	Units: uL	
MSV_LL_GAS826_00052	Amount Added:	25.00	Units: uL	
MSV_LLcentISS_00002	Amount Added:	5.00	Units: uL	Run Reagent

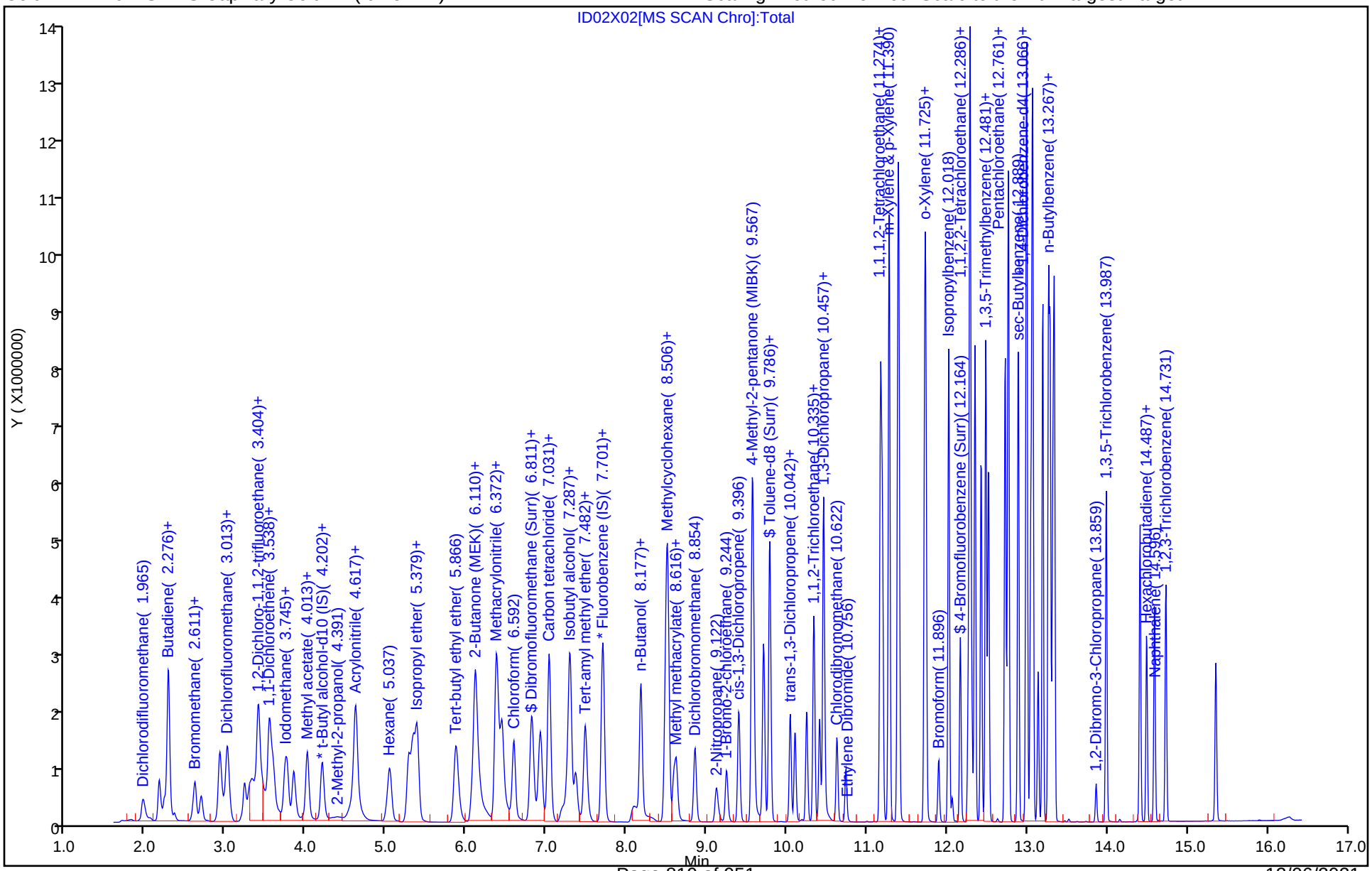
Report Date: 02-Dec-2021 15:25:16 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X02.D

Injection Date:	02-Dec-2021 10:44:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	CCVIS VSTD12.5			Worklist Smp#:	3
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-64660-1

SDG No.:

Lab Sample ID: CCVIS 410-201082/3 Calibration Date: 12/03/2021 09:48

Instrument ID: 19930 Calib Start Date: 08/24/2021 00:45

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/24/2021 02:52

Lab File ID: ID03X02.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	0.3128	0.2709	0.1000	10.8	12.5	-13.4	20.0
Chloromethane	Ave	0.3563	0.3578	0.1000	12.6	12.5	0.4	20.0
1,3-Butadiene	Ave	0.3273	0.4202		16.0	12.5	28.4*	20.0
Vinyl chloride	Ave	0.3592	0.3558	0.1000	12.4	12.5	-1.0	20.0
Bromomethane	Ave	0.2603	0.2475	0.1000	11.9	12.5	-4.9	20.0
Chloroethane	Ave	0.2153	0.2029	0.1000	11.8	12.5	-5.8	20.0
Dichlorofluoromethane	Ave	0.5179	0.4903		11.8	12.5	-5.3	20.0
Trichlorofluoromethane	Ave	0.4629	0.4387	0.1000	11.8	12.5	-5.2	20.0
Ethyl ether	Ave	0.1881	0.1947		12.9	12.5	3.5	20.0
Freon 123a	Ave	0.3316	0.3392		12.8	12.5	2.3	20.0
Acrolein	Ave	2.185	2.111		605	626	-3.4	20.0
1,1-Dichloroethene	Ave	0.2387	0.2553	0.1000	13.4	12.5	7.0	20.0
Acetone	Ave	2.778	2.378	0.1000	107	125	-14.4	20.0
Freon 113	Ave	0.2492	0.2273	0.1000	11.4	12.5	-8.8	20.0
Methyl iodide	Ave	0.4771	0.4583		12.0	12.5	-3.9	20.0
Ethyl bromide	Ave	0.2175	0.2260		13.0	12.5	3.9	20.0
Carbon disulfide	Ave	0.6588	0.6296	0.1000	11.9	12.5	-4.4	20.0
Methyl acetate	Ave	8.176	8.477	0.1000	13.0	12.5	3.7	20.0
Allyl chloride	Ave	0.3915	0.3597		11.5	12.5	-8.1	20.0
Methylene Chloride	Ave	0.2605	0.2788	0.1000	13.4	12.5	7.0	20.0
t-Butyl alcohol	Ave	1.053	0.9631		229	250	-8.5	20.0
Acrylonitrile	Ave	3.702	3.708		31.3	31.3	0.2	20.0
Methyl tert-butyl ether	Ave	0.6808	0.6643	0.1000	12.2	12.5	-2.4	20.0
trans-1,2-Dichloroethene	Ave	0.2711	0.2894	0.1000	13.3	12.5	6.8	20.0
n-Hexane	Ave	0.3785	0.3042		10.0	12.5	-19.6	20.0
1,1-Dichloroethane	Ave	0.4919	0.5199	0.2000	13.2	12.5	5.7	20.0
di-Isopropyl ether	Ave	0.8217	0.8066		12.3	12.5	-1.8	20.0
2-Chloro-1,3-butadiene	Ave	0.4101	0.4010		12.2	12.5	-2.2	20.0
Ethyl t-butyl ether	Ave	0.8035	0.7440		11.6	12.5	-7.4	20.0
2-Butanone (MEK)	Ave	4.850	4.854	0.1000	125	125	0.0	20.0
cis-1,2-Dichloroethene	Ave	0.3020	0.3193	0.1000	13.2	12.5	5.7	20.0
2,2-Dichloropropane	Ave	0.4277	0.3949		11.5	12.5	-7.7	20.0
Propionitrile	Ave	1.288	1.312		255	250	1.9	20.0
Methacrylonitrile	Ave	4.873	5.296		136	125	8.7	20.0
Bromochloromethane	Ave	0.1303	0.1363		13.1	12.5	4.6	20.0
Tetrahydrofuran	Ave	1.439	1.444		62.7	62.5	0.4	20.0
Chloroform	Ave	0.4873	0.5072	0.2000	13.0	12.5	4.1	20.0
1,1,1-Trichloroethane	Ave	0.4528	0.4743	0.1000	13.1	12.5	4.8	20.0
Cyclohexane	Ave	0.4489	0.4393	0.1000	12.2	12.5	-2.1	20.0
1,1-Dichloropropene	Ave	0.3820	0.4078		13.3	12.5	6.8	20.0
Carbon tetrachloride	Ave	0.3908	0.4096	0.1000	13.1	12.5	4.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-64660-1

SDG No.:

Lab Sample ID: CCVIS 410-201082/3 Calibration Date: 12/03/2021 09:48

Instrument ID: 19930 Calib Start Date: 08/24/2021 00:45

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/24/2021 02:52

Lab File ID: ID03X02.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	0.3359	0.3317		617	625	-1.3	20.0
Benzene	Ave	1.124	1.201	0.5000	13.4	12.5	6.8	20.0
1,2-Dichloroethane	Ave	0.3046	0.2950	0.1000	12.1	12.5	-3.2	20.0
t-Amyl methyl ether	Ave	0.7459	0.6616		11.1	12.5	-11.3	20.0
n-Heptane	Ave	0.3892	0.2792		8.97	12.5	-28.3*	20.0
n-Butanol	Ave	0.3118	0.3363		1180	1090	7.8	20.0
Trichloroethene	Ave	0.3022	0.3232	0.2000	13.4	12.5	7.0	20.0
Methylcyclohexane	Ave	0.5026	0.4823	0.1000	12.0	12.5	-4.0	20.0
1,2-Dichloropropane	Ave	0.2761	0.2988	0.1000	13.5	12.5	8.2	20.0
Methyl methacrylate	Ave	9.578	10.21		13.3	12.5	6.6	20.0
1,4-Dioxane	Qua		0.0763	0.0050	541	625	-13.5	20.0
Dibromomethane	Ave	0.1350	0.1407		13.0	12.5	4.3	20.0
Bromodichloromethane	Ave	0.3347	0.3563	0.2000	13.3	12.5	6.5	20.0
2-Nitropropane	Ave	2.740	2.646		60.3	62.5	-3.4	20.0
1-Bromo-2-chloroethane	Ave	0.2710	0.3144		14.5	12.5	16.0	20.0
cis-1,3-Dichloropropene	Ave	0.4206	0.4429	0.2000	13.2	12.5	5.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	12.21	12.51	0.1000	128	125	2.4	20.0
Toluene	Ave	0.9586	0.9716	0.4000	12.7	12.5	1.4	20.0
trans-1,3-Dichloropropene	Ave	0.4420	0.4394	0.1000	12.4	12.5	-0.6	20.0
Ethyl methacrylate	Ave	0.3689	0.3575		12.1	12.5	-3.1	20.0
1,1,2-Trichloroethane	Ave	0.2557	0.2596	0.1000	12.7	12.5	1.5	20.0
Tetrachloroethene	Ave	0.4567	0.4651	0.2000	12.7	12.5	1.8	20.0
1,3-Dichloropropane	Ave	0.4348	0.4437		12.8	12.5	2.0	20.0
2-Hexanone	Ave	8.554	8.920	0.1000	130	125	4.3	20.0
Dibromochloromethane	Ave	0.3116	0.3215		12.9	12.5	3.2	20.0
1,2-Dibromoethane (EDB)	Ave	0.2467	0.2510	0.1000	12.7	12.5	1.8	20.0
1-Chlorohexane	Ave	0.5606	0.5296		11.8	12.5	-5.5	20.0
Chlorobenzene	Ave	1.062	1.074	0.5000	12.6	12.5	1.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3708	0.3758		12.7	12.5	1.3	20.0
Ethylbenzene	Ave	1.846	1.883	0.1000	12.7	12.5	2.0	20.0
m&p-Xylene	Ave	0.7292	0.7384	0.1000	25.3	25.0	1.3	20.0
o-Xylene	Ave	0.7197	0.7344	0.3000	12.8	12.5	2.0	20.0
Styrene	Ave	1.162	1.190	0.3000	12.8	12.5	2.4	20.0
Bromoform	Ave	0.1867	0.1923	0.1000	12.9	12.5	3.0	20.0
Isopropylbenzene	Ave	1.900	1.925	0.1000	12.7	12.5	1.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5528	0.5470	0.3000	12.4	12.5	-1.0	20.0
Bromobenzene	Ave	0.7576	0.7696		12.7	12.5	1.6	20.0
trans-1,4-Dichloro-2-butene	Ave	4.418	4.086		116	125	-7.5	20.0
1,2,3-Trichloropropane	Ave	0.1520	0.1509		12.4	12.5	-0.7	20.0
N-Propylbenzene	Ave	3.678	3.793		12.9	12.5	3.1	20.0
2-Chlorotoluene	Ave	0.7546	0.7763		12.9	12.5	2.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-64660-1

SDG No.:

Lab Sample ID: CCVIS 410-201082/3 Calibration Date: 12/03/2021 09:48

Instrument ID: 19930 Calib Start Date: 08/24/2021 00:45

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 08/24/2021 02:52

Lab File ID: ID03X02.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	2.686	2.795		13.0	12.5	4.1	20.0
4-Chlorotoluene	Ave	0.7706	0.7789		12.6	12.5	1.1	20.0
tert-Butylbenzene	Ave	0.5890	0.6098		12.9	12.5	3.5	20.0
Pentachloroethane	Ave	0.4757	0.4982		13.1	12.5	4.7	20.0
1,2,4-Trimethylbenzene	Ave	2.753	2.820		12.8	12.5	2.4	20.0
sec-Butylbenzene	Ave	3.394	3.508		12.9	12.5	3.4	20.0
1,3-Dichlorobenzene	Ave	1.528	1.545	0.6000	12.6	12.5	1.1	20.0
p-Isopropyltoluene	Ave	3.002	3.023		12.6	12.5	0.7	20.0
1,4-Dichlorobenzene	Ave	1.562	1.523	0.5000	12.2	12.5	-2.5	20.0
1,2,3-Trimethylbenzene	Ave	1.218	1.203		12.3	12.5	-1.2	20.0
Benzyl chloride	Ave	0.2262	0.1877		10.4	12.5	-17.0	20.0
n-Butylbenzene	Ave	1.403	1.404		12.5	12.5	0.0	20.0
1,2-Dichlorobenzene	Ave	1.396	1.395	0.4000	12.5	12.5	-0.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0813	0.0870	0.0500	13.4	12.5	7.0	20.0
1,3,5-Trichlorobenzene	Ave	1.118	1.112		12.4	12.5	-0.6	20.0
1,2,4-Trichlorobenzene	Ave	0.9433	0.9596	0.2000	12.7	12.5	1.7	20.0
Hexachlorobutadiene	Ave	0.4098	0.3682		11.2	12.5	-10.2	20.0
Naphthalene	Ave	1.798	1.773		12.3	12.5	-1.4	20.0
1,2,3-Trichlorobenzene	Ave	0.8152	0.7878		12.1	12.5	-3.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2519	0.2547		10.1	10.0	1.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0504	0.0515		10.2	10.0	2.3	20.0
Toluene-d8 (Surr)	Ave	1.292	1.291		9.99	10.0	-0.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4939	0.4903		9.93	10.0	-0.7	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X02.D
Lims ID: CCVIS VSTD12.5
Client ID:
Sample Type: CCVIS
Inject. Date: 03-Dec-2021 09:48:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045448-003
Misc. Info.: CCVIS VSTD12.5
Operator ID: KNK41612 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 03-Dec-2021 12:34:54 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1629

First Level Reviewer: kephartk Date: 03-Dec-2021 10:22:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.971	1.971	0.000	99	899815	12.5	10.8	
4 Chloromethane	50	2.172	2.172	0.000	99	1188389	12.5	12.6	
6 Butadiene	39	2.282	2.282	0.000	90	1395605	12.5	16.0	
5 Vinyl chloride	62	2.288	2.288	0.000	98	1181586	12.5	12.4	
7 Bromomethane	94	2.617	2.617	0.000	90	821930	12.5	11.9	
8 Chloroethane	64	2.690	2.690	0.000	100	673836	12.5	11.8	
9 Dichlorofluoromethane	67	2.928	2.928	0.000	97	1628491	12.5	11.8	
10 Trichlorofluoromethane	101	3.001	3.001	0.000	98	1457055	12.5	11.8	M
11 Ethyl ether	59	3.233	3.233	0.000	89	646639	12.5	12.9	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.324	3.324	0.000	90	1126518	12.5	12.8	
13 Acrolein	56	3.404	3.404	0.000	98	4717548	626.3	604.9	
14 1,1-Dichloroethene	96	3.544	3.544	0.000	98	847905	12.5	13.4	
15 Acetone	43	3.568	3.568	0.000	100	1060651	125.0	107.0	
16 112TCTFE	101	3.587	3.587	0.000	91	754901	12.5	11.4	
17 Iodomethane	142	3.739	3.739	0.000	99	1522136	12.5	12.0	
18 Ethyl bromide	108	3.769	3.769	0.000	99	750243	12.5	13.0	
19 Carbon disulfide	76	3.849	3.849	0.000	99	2091161	12.5	11.9	
21 Methyl acetate	43	3.989	3.989	0.000	97	378155	12.5	13.0	
22 3-Chloro-1-propene	41	4.013	4.013	0.000	92	1194807	12.5	11.5	
23 Methylene Chloride	84	4.202	4.202	0.000	89	925872	12.5	13.4	
* 24 t-Butyl alcohol-d10 (IS)	65	4.208	4.208	0.000	95	178434	50.0	50.0	
25 2-Methyl-2-propanol	59	4.330	4.330	0.000	100	859263	250.0	228.7	
26 Acrylonitrile	53	4.531	4.531	0.000	99	413541	31.3	31.3	
27 Methyl tert-butyl ether	73	4.605	4.605	0.000	94	2206198	12.5	12.2	
28 trans-1,2-Dichloroethene	96	4.623	4.623	0.000	99	961103	12.5	13.3	
29 Hexane	57	5.044	5.044	0.000	89	1010314	12.5	10.0	
31 1,1-Dichloroethane	63	5.281	5.281	0.000	96	1726674	12.5	13.2	
32 Isopropyl ether	45	5.336	5.336	0.000	93	2678780	12.5	12.3	
33 2-Chloro-1,3-butadiene	53	5.391	5.391	0.000	90	1331953	12.5	12.2	
34 Tert-butyl ethyl ether	59	5.873	5.873	0.000	97	2471147	12.5	11.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.068	6.068	0.000	99	2165281	125.0	125.1	
37 cis-1,2-Dichloroethene	96	6.110	6.110	0.000	81	1060478	12.5	13.2	
38 2,2-Dichloropropane	77	6.129	6.129	0.000	86	1311424	12.5	11.5	
40 Propionitrile	54	6.159	6.159	0.000	99	1170893	250.0	254.7	
42 Methacrylonitrile	67	6.373	6.373	0.000	90	2362610	125.0	135.9	
43 Chlorobromomethane	128	6.446	6.446	0.000	90	452598	12.5	13.1	
44 Tetrahydrofuran	71	6.452	6.452	0.000	75	322116	62.5	62.7	
45 Chloroform	83	6.592	6.592	0.000	93	1684421	12.5	13.0	
$ 46 Dibromofluoromethane (Surr)	113	6.805	6.805	0.000	94	676838	10.0	10.1	
47 1,1,1-Trichloroethane	97	6.824	6.824	0.000	98	1575328	12.5	13.1	
48 Cyclohexane	56	6.921	6.921	0.000	88	1459107	12.5	12.2	
51 1,1-Dichloropropene	75	7.037	7.037	0.000	97	1354260	12.5	13.3	
50 Carbon tetrachloride	117	7.037	7.037	0.000	84	1360424	12.5	13.1	
52 Isobutyl alcohol	41	7.171	7.171	0.000	94	739769	625.0	617.0	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.257	7.257	0.000	84	136915	10.0	10.2	
54 Benzene	78	7.293	7.293	0.000	95	3988478	12.5	13.4	
56 1,2-Dichloroethane	62	7.366	7.366	0.000	98	979847	12.5	12.1	
57 Tert-amyl methyl ether	73	7.482	7.482	0.000	99	2197166	12.5	11.1	
* 58 Fluorobenzene (IS)	96	7.695	7.695	0.000	99	2656975	10.0	10.0	
59 n-Heptane	43	7.708	7.708	0.000	90	927446	12.5	8.97	
60 n-Butanol	56	8.055	8.055	0.000	86	1312542	1093.8	1179.5	
61 Trichloroethene	95	8.177	8.177	0.000	97	1073574	12.5	13.4	
62 Methylcyclohexane	83	8.488	8.488	0.000	92	1601771	12.5	12.0	
63 1,2-Dichloropropane	63	8.506	8.506	0.000	96	992398	12.5	13.5	
64 Methyl methacrylate	69	8.586	8.586	0.000	88	455449	12.5	13.3	
65 1,4-Dioxane	88	8.604	8.604	0.000	84	170264	625.0	540.7	
66 Dibromomethane	93	8.622	8.622	0.000	94	467441	12.5	13.0	
68 Dichlorobromomethane	83	8.854	8.854	0.000	100	1183492	12.5	13.3	
69 2-Nitropropane	41	9.116	9.116	0.000	97	590106	62.5	60.3	
72 1-Bromo-2-chloroethane	63	9.250	9.250	0.000	98	1044237	12.5	14.5	
73 cis-1,3-Dichloropropene	75	9.402	9.402	0.000	97	1470920	12.5	13.2	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	95	5579048	125.0	128.0	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2791200	10.0	10.0	
76 Toluene	92	9.787	9.787	0.000	98	2625190	12.5	12.7	
78 trans-1,3-Dichloropropene	75	10.043	10.043	0.000	91	1187324	12.5	12.4	
79 Ethyl methacrylate	69	10.104	10.104	0.000	88	965884	12.5	12.1	
80 1,1,2-Trichloroethane	97	10.250	10.250	0.000	90	701513	12.5	12.7	
81 Tetrachloroethene	166	10.335	10.335	0.000	98	1256744	12.5	12.7	
82 1,3-Dichloropropane	76	10.408	10.408	0.000	87	1198939	12.5	12.8	
83 2-Hexanone	43	10.457	10.457	0.000	95	3979263	125.0	130.4	
85 Chlorodibromomethane	129	10.628	10.628	0.000	89	868538	12.5	12.9	
86 Ethylene Dibromide	107	10.738	10.738	0.000	98	678277	12.5	12.7	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	2161537	10.0	10.0	
88 1-Chlorohexane	91	11.177	11.177	0.000	95	1430823	12.5	11.8	
90 Chlorobenzene	112	11.195	11.195	0.000	96	2902909	12.5	12.6	
91 1,1,1,2-Tetrachloroethane	131	11.274	11.274	0.000	96	1015290	12.5	12.7	
92 Ethylbenzene	91	11.280	11.280	0.000	98	5087095	12.5	12.7	
93 m-Xylene & p-Xylene	106	11.390	11.390	0.000	100	3990398	25.0	25.3	
94 o-Xylene	106	11.719	11.719	0.000	96	1984329	12.5	12.8	
95 Styrene	104	11.737	11.737	0.000	95	3214228	12.5	12.8	
96 Bromoform	173	11.896	11.896	0.000	98	519624	12.5	12.9	
97 Isopropylbenzene	105	12.024	12.024	0.000	95	5201456	12.5	12.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	93	1059755	10.0	9.93	
101 1,1,2,2-Tetrachloroethane	83	12.262	12.262	0.000	93	855168	12.5	12.4	
102 Bromobenzene	156	12.280	12.280	0.000	97	1203044	12.5	12.7	
103 trans-1,4-Dichloro-2-butene	53	12.286	12.286	0.000	90	1822512	125.0	115.6	
104 1,2,3-Trichloropropane	110	12.310	12.310	0.000	82	235934	12.5	12.4	
105 N-Propylbenzene	91	12.347	12.347	0.000	99	5929823	12.5	12.9	
106 2-Chlorotoluene	126	12.426	12.426	0.000	97	1213628	12.5	12.9	
107 1,3,5-Trimethylbenzene	105	12.481	12.481	0.000	94	4370066	12.5	13.0	
108 4-Chlorotoluene	126	12.518	12.518	0.000	97	1217578	12.5	12.6	
109 tert-Butylbenzene	134	12.725	12.725	0.000	93	953298	12.5	12.9	
110 Pentachloroethane	167	12.762	12.762	0.000	92	778887	12.5	13.1	
111 1,2,4-Trimethylbenzene	105	12.768	12.768	0.000	97	4407840	12.5	12.8	
112 sec-Butylbenzene	105	12.890	12.890	0.000	94	5484392	12.5	12.9	
113 1,3-Dichlorobenzene	146	12.987	12.987	0.000	98	2414573	12.5	12.6	
114 4-Isopropyltoluene	119	12.993	12.993	0.000	97	4725645	12.5	12.6	
* 115 1,4-Dichlorobenzene-d4	152	13.042	13.042	0.000	94	1250629	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.060	13.060	0.000	95	2380895	12.5	12.2	
117 1,2,3-Trimethylbenzene	120	13.072	13.072	0.000	98	1880627	12.5	12.3	
118 Benzyl chloride	126	13.140	13.140	0.000	98	293454	12.5	10.4	
119 n-Butylbenzene	92	13.286	13.286	0.000	97	2195247	12.5	12.5	
120 1,2-Dichlorobenzene	146	13.322	13.322	0.000	99	2180494	12.5	12.5	
122 1,2-Dibromo-3-Chloropropane	155	13.859	13.859	0.000	90	136007	12.5	13.4	
123 1,3,5-Trichlorobenzene	180	13.987	13.987	0.000	98	1737925	12.5	12.4	
124 1,2,4-Trichlorobenzene	180	14.408	14.408	0.000	94	1500178	12.5	12.7	
125 Hexachlorobutadiene	225	14.493	14.493	0.000	96	575542	12.5	11.2	
126 Naphthalene	128	14.590	14.590	0.000	97	2771738	12.5	12.3	
127 1,2,3-Trichlorobenzene	180	14.731	14.731	0.000	96	1231514	12.5	12.1	
134 Isopropyl alcohol	45		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
137 2-Methylnaphthalene	142		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00025	Amount Added: 25.00	Units: uL	
MSV_LL_#2_826_00029	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00052	Amount Added: 25.00	Units: uL	
MSV_LLcentISS_00002	Amount Added: 5.00	Units: uL	Run Reagent

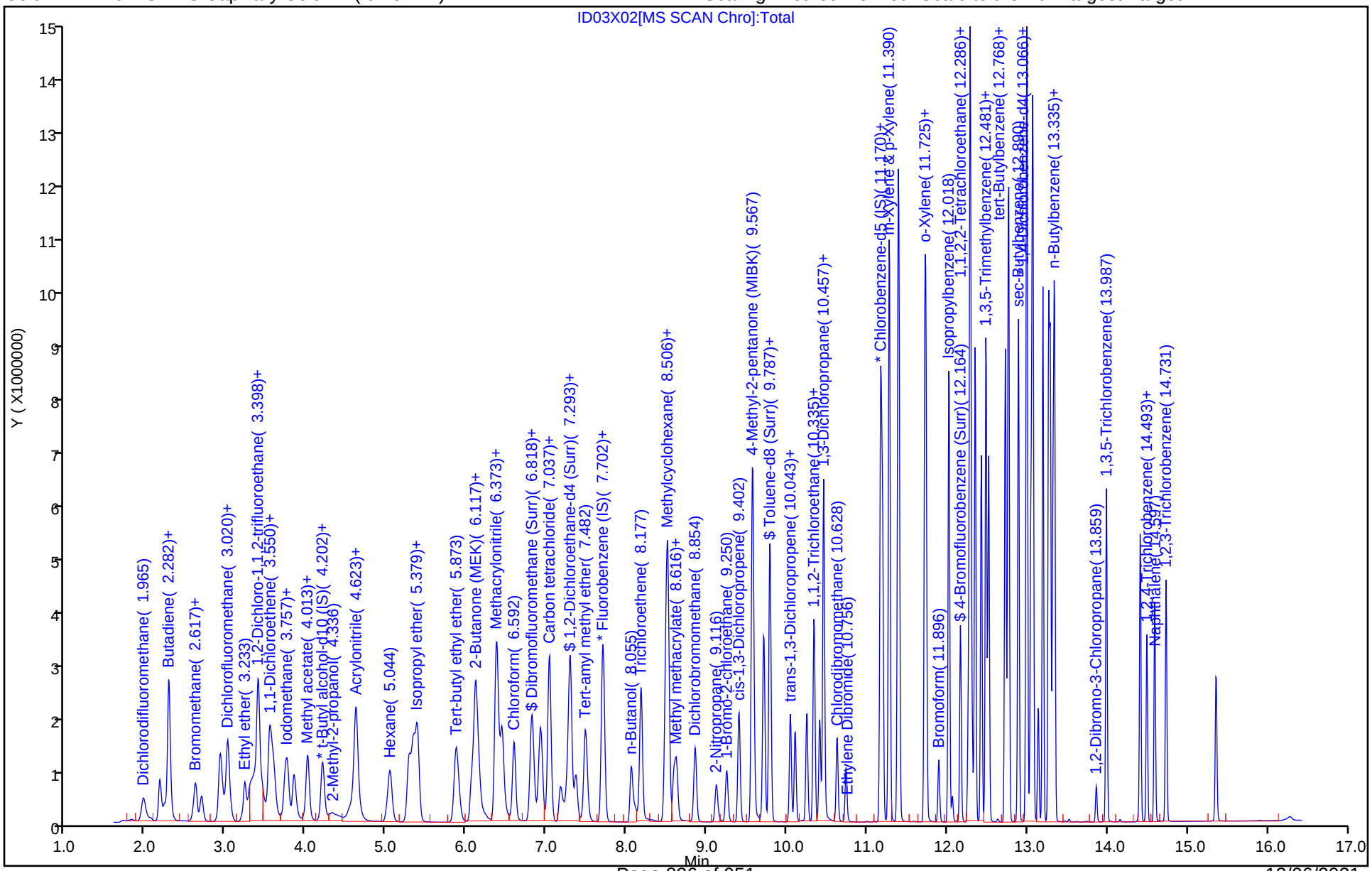
Report Date: 03-Dec-2021 12:34:56 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X02.D

Injection Date:	03-Dec-2021 09:48:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	CCVIS VSTD12.5			Worklist Smp#:	3
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

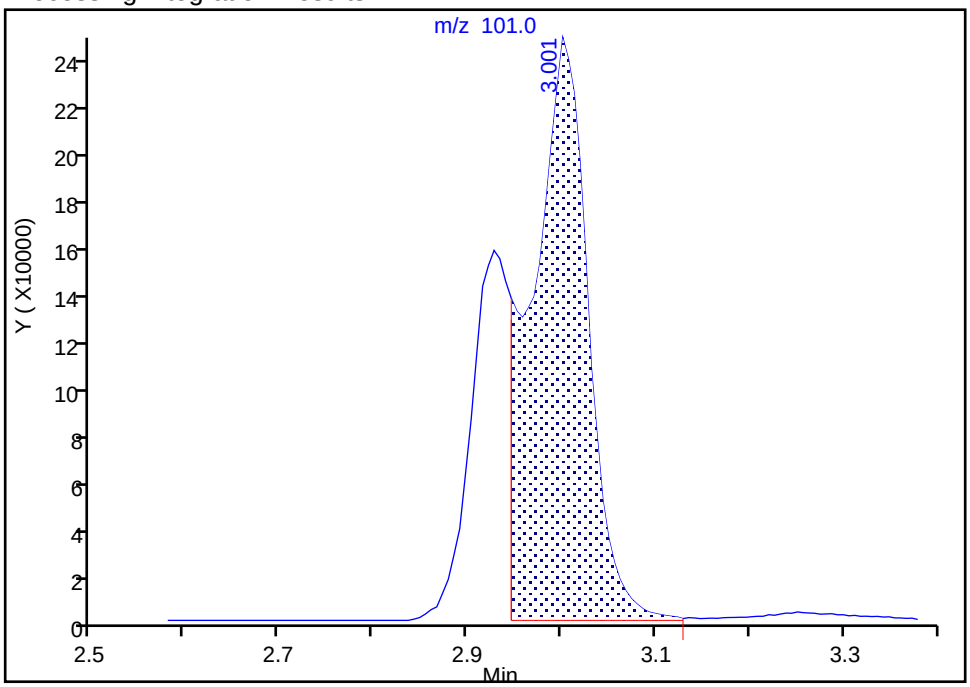
Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X02.D				
Injection Date:	03-Dec-2021 09:48:30	Instrument ID:	19930		
Lims ID:	CCVIS VSTD12.5				
Client ID:					
Operator ID:	KNK41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

10 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

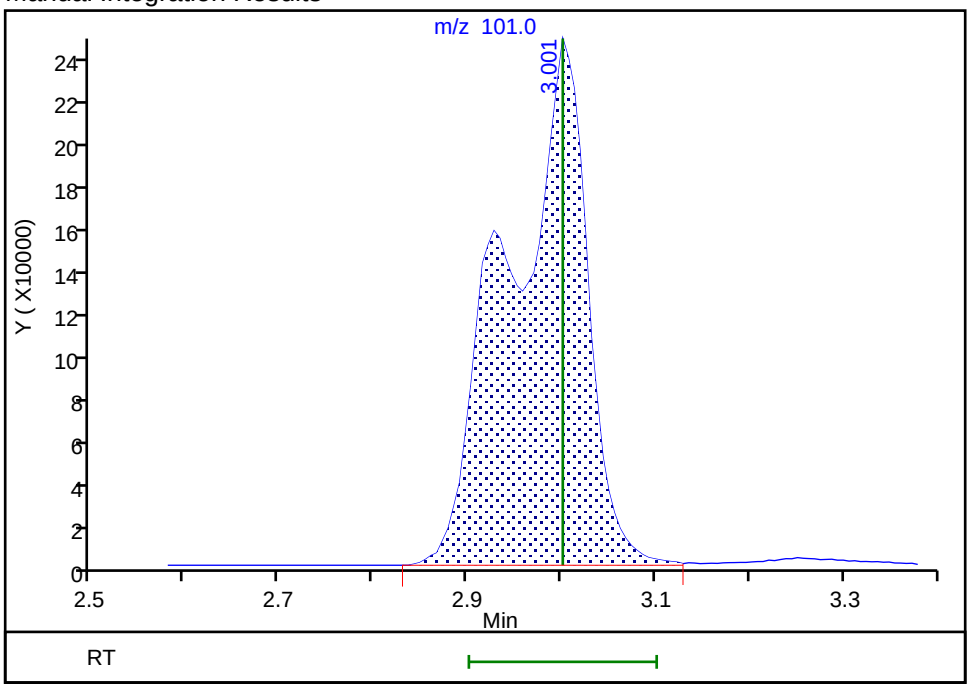
Processing Integration Results

RT: 3.00
Area: 1045418
Amount: 8.499291
Amount Units: ug/l



Manual Integration Results

RT: 3.00
Area: 1457055
Amount: 11.845917
Amount Units: ug/l



Reviewer: kephartk, 03-Dec-2021 10:21:28
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27T02.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 27-Jul-2021 15:41:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0035331-001
Misc. Info.: BFB
Operator ID: kas02648 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 05-Aug-2021 16:14:06 Calib Date: 27-Jul-2021 21:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1675

First Level Reviewer: campbellme Date: 28-Jul-2021 00:02:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 163 BFB	95	5.182	5.182	0.000	91	383102	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

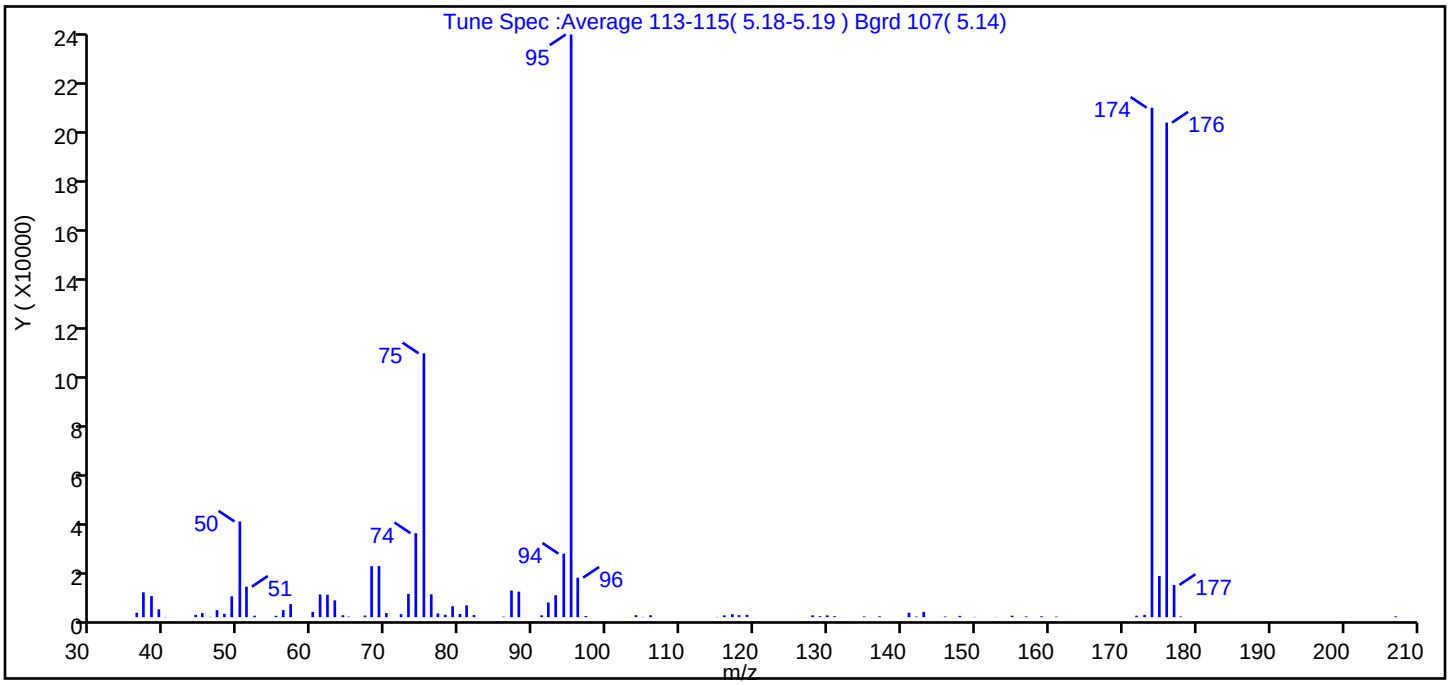
MSV_V_BFB_00006 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27T02.D
Injection Date: 27-Jul-2021 15:41:30 Instrument ID: 16334
Lims ID: bfb
Client ID:
Operator ID: kas02648 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Tune Method: BFB Method 1624

$ 163 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.4
75	30 to 60% of m/z 95	45.3
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.4 (0.4)
174	50 to 120% of m/z 95	87.4
175	5 to 9% of m/z 174	7.1 (8.1)
176	Greater than 95% but less than 101% of m/z 174	84.9 (97.1)
177	5 to 9% of m/z 176	5.5 (6.5)

Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27T02.D\MSV_16334_25mL.rslt\spectra.d
Injection Date: 27-Jul-2021 15:41:30
Spectrum: Tune Spec :Average 113-115(5.18-5.19) Bgrd 107(5.14)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 81

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1773	64.00	774	92.00	5923	142.00	264
37.00	10051	65.00	219	93.00	8860	143.00	2143
38.00	8517	67.00	658	94.00	25688	146.00	263
39.00	3166	68.00	20624	95.00	235776	148.00	524
40.00	95	69.00	20664	96.00	15983	150.00	111
44.00	908	70.00	1640	97.00	467	153.00	87
45.00	1623	72.00	1197	104.00	787	155.00	579
46.00	120	73.00	9409	105.00	107	157.00	317
47.00	2835	74.00	33984	106.00	763	159.00	351
48.00	1349	75.00	106768	115.00	98	161.00	250
49.00	8427	76.00	9254	116.00	736	172.00	589
50.00	38704	77.00	1491	117.00	1193	173.00	927
51.00	12322	78.00	952	118.00	802	174.00	206144
52.00	588	79.00	4410	119.00	945	175.00	16648
55.00	536	80.00	1266	128.00	745	176.00	200128
56.00	2838	81.00	4761	129.00	400	177.00	13038
57.00	5287	82.00	833	130.00	714	178.00	276
60.00	2129	86.00	205	131.00	398	207.00	343
61.00	9179	87.00	10767	135.00	317		
62.00	9086	88.00	10338	137.00	339		
63.00	6793	91.00	722	141.00	1797		

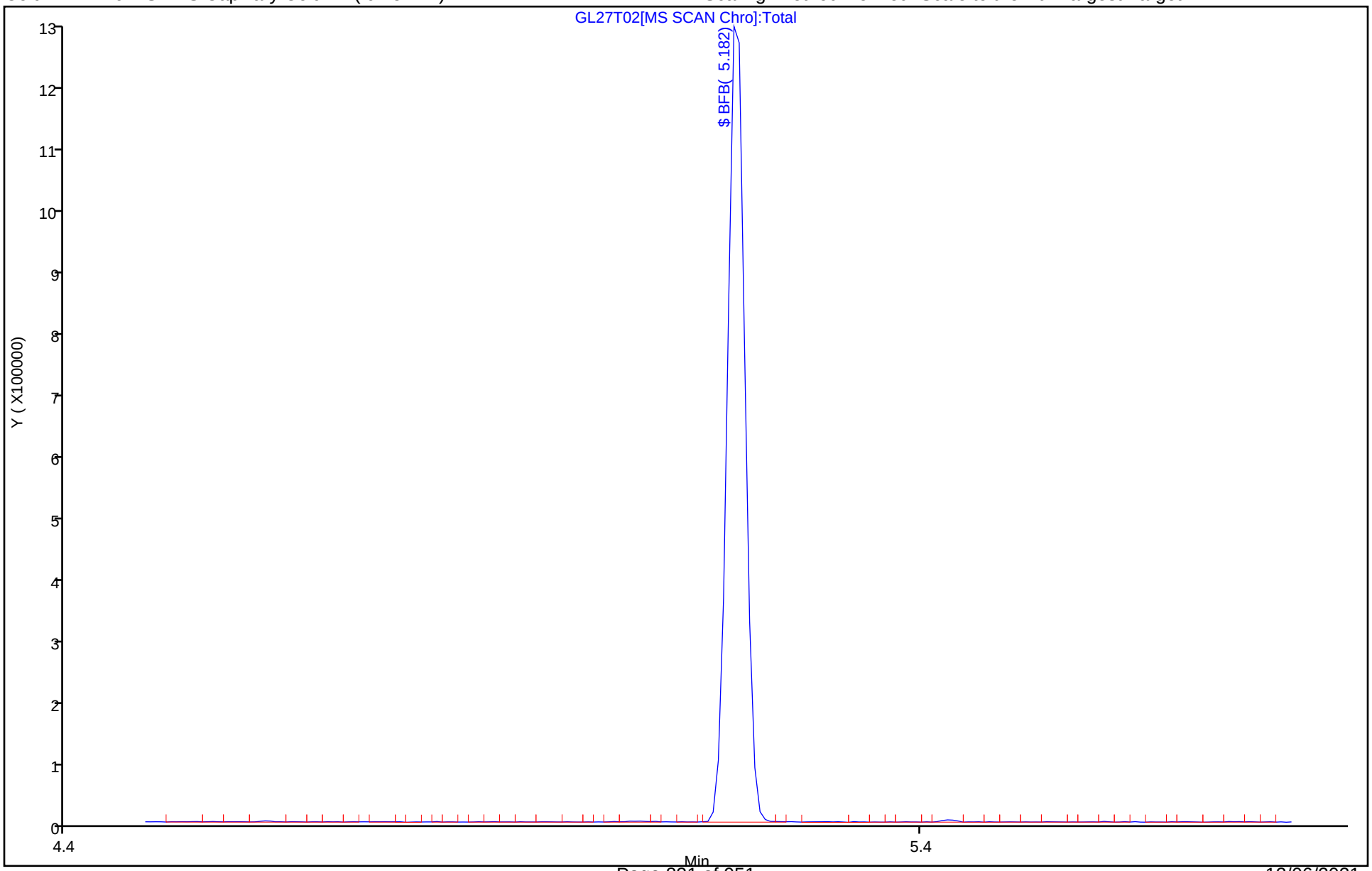
Report Date: 05-Aug-2021 16:14:06 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27T02.D

Injection Date:	27-Jul-2021 15:41:30	Instrument ID:	16334	Operator ID:	kas02648
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04T01.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	04-Dec-2021 09:25:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0045539-001				
Misc. Info.:	BFB				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20211204-45539.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	04-Dec-2021 12:24:16	Calib Date:	27-Jul-2021 21:47:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1614				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 163 BFB	95	5.163	5.163	0.000	89	645916	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

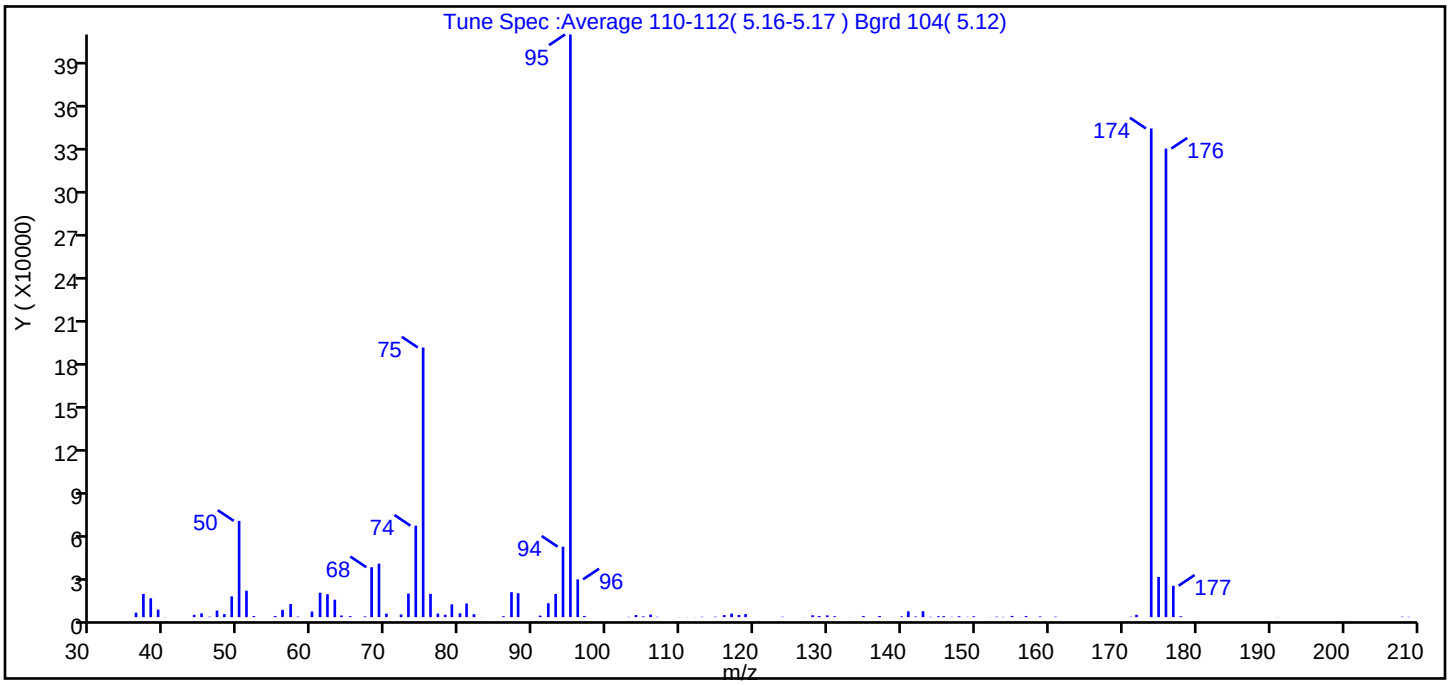
MSV_V_BFB_00006 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04T01.D
Injection Date: 04-Dec-2021 09:25:30 Instrument ID: 16334
Lims ID: BFB
Client ID:
Operator ID: knk41612 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 163 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.5
75	30 to 60% of m/z 95	46.3
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	83.9
175	5 to 9% of m/z 174	6.9 (8.2)
176	Greater than 95% but less than 101% of m/z 174	80.4 (95.9)
177	5 to 9% of m/z 176	5.4 (6.7)

Data File: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04T01.D\MSV_16334_25mL.rslt\spectra.d
Injection Date: 04-Dec-2021 09:25:30
Spectrum: Tune Spec :Average 110-112(5.16-5.17) Bgrd 104(5.12)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 103

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3160	69.00	37376	105.00	524	144.00	250
37.00	16249	70.00	2396	106.00	1795	145.00	651
38.00	13196	72.00	1873	107.00	248	146.00	703
39.00	5256	73.00	16472	110.00	111	147.00	206
40.00	111	74.00	63864	111.00	99	148.00	640
44.00	1628	75.00	188288	112.00	96	149.00	206
45.00	2638	76.00	16278	113.00	246	150.00	617
46.00	321	77.00	2497	115.00	298	152.00	93
47.00	4609	78.00	1679	116.00	1449	153.00	340
48.00	2090	79.00	8944	117.00	2485	154.00	207
49.00	14498	80.00	2697	118.00	1563	155.00	861
50.00	67232	81.00	9542	119.00	2133	156.00	106
51.00	18448	82.00	2024	124.00	283	157.00	824
52.00	761	83.00	87	127.00	104	159.00	481
55.00	835	86.00	645	128.00	1298	161.00	344
56.00	5113	87.00	17440	129.00	844	171.00	269
57.00	9194	88.00	16688	130.00	1242	172.00	1660
58.00	373	91.00	1073	131.00	642	174.00	341248
60.00	3907	92.00	9711	133.00	99	175.00	28112
61.00	17040	93.00	16243	135.00	835	176.00	327168
62.00	15994	94.00	49192	137.00	800	177.00	21960
63.00	12179	95.00	406848	139.00	92	178.00	611
64.00	1131	96.00	26392	140.00	543	191.00	118
65.00	681	97.00	854	141.00	4099	208.00	300
67.00	492	103.00	217	142.00	458	209.00	232
68.00	34864	104.00	1462	143.00	4137		

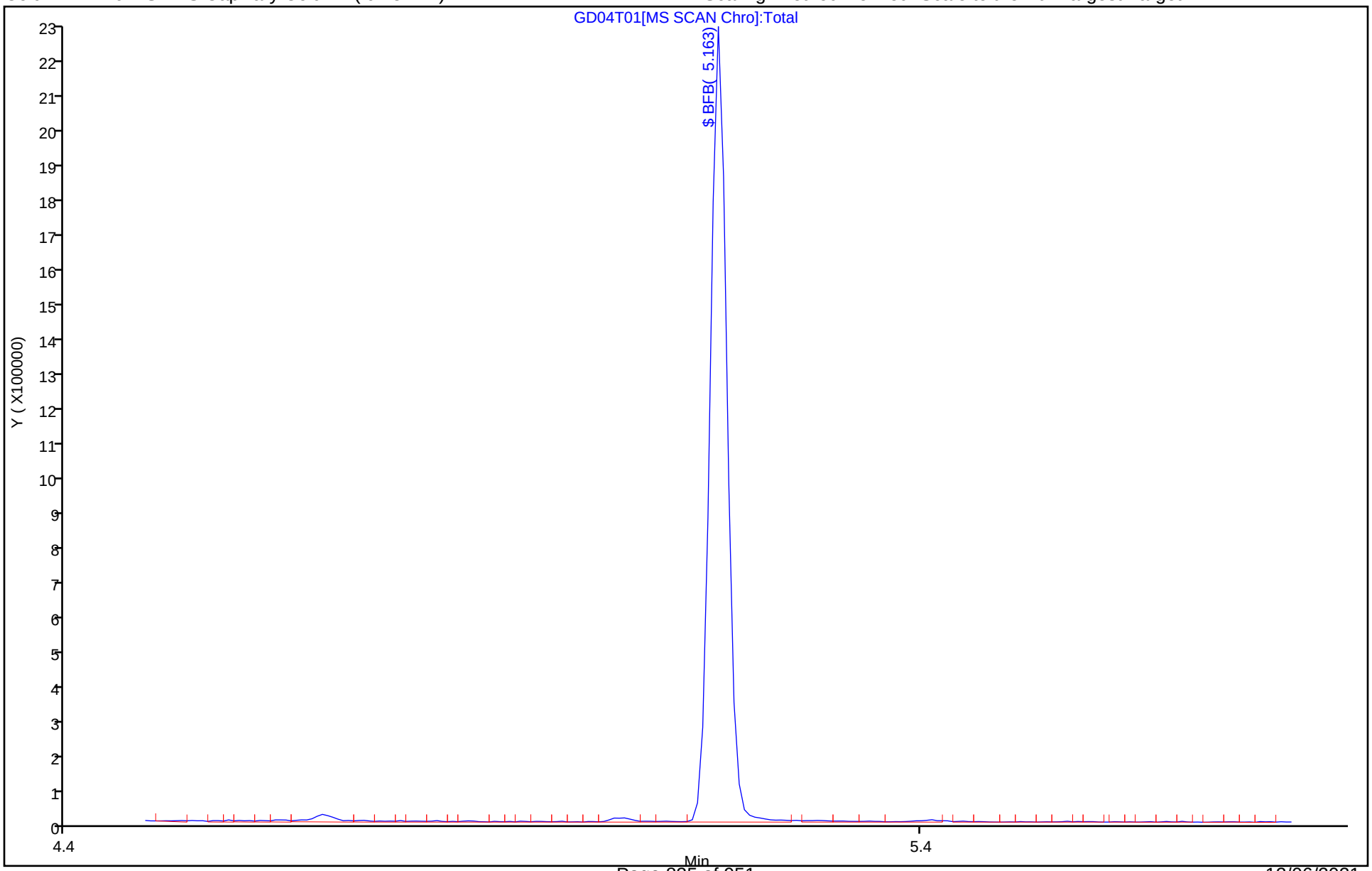
Report Date: 04-Dec-2021 12:24:16 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04T01.D

Injection Date:	04-Dec-2021 09:25:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23T01.D
Lims ID: bfb
Client ID:
Sample Type: BFB
Inject. Date: 23-Aug-2021 20:56:30 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: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 24-Aug-2021 15:42:34 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1646

First Level Reviewer: campbellme Date: 23-Aug-2021 21:08:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 145 BFB	95	5.190	5.190	0.000	0	215193	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

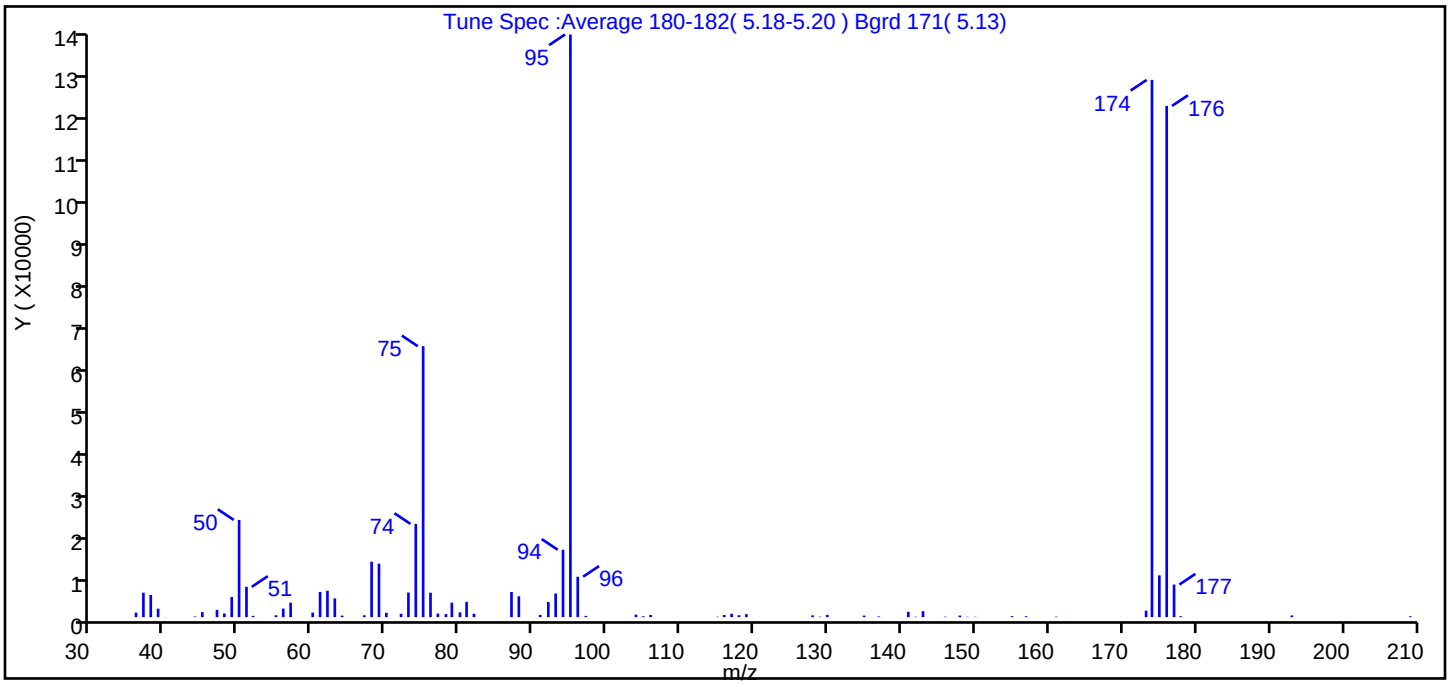
MSV_V_BFB_00006 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23T01.D
Injection Date: 23-Aug-2021 20:56:30 Instrument ID: 19930
Lims ID: bfb
Client ID:
Operator ID: mec29284 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 1624

$ 145 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.7
75	30 to 60% of m/z 95	46.5
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	1.1 (1.2)
174	50 to 120% of m/z 95	92.2
175	5 to 9% of m/z 174	7.2 (7.8)
176	Greater than 95% but less than 101% of m/z 174	87.7 (95.2)
177	5 to 9% of m/z 176	5.6 (6.4)

Data File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23T01.D\8260 25ml HP31.rslt\spectra.d
Injection Date: 23-Aug-2021 20:56:30
Spectrum: Tune Spec :Average 180-182(5.18-5.20) Bgrd 171(5.13)
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	1061	63.00	4393	91.00	527	137.00	156
37.00	5748	64.00	362	92.00	3571	141.00	1257
38.00	5208	67.00	438	93.00	5550	142.00	96
39.00	1992	68.00	13018	94.00	15820	143.00	1399
40.00	38	69.00	12555	95.00	136768	146.00	111
44.00	148	70.00	1011	96.00	9487	148.00	376
45.00	1176	72.00	785	97.00	292	149.00	83
47.00	1700	73.00	5782	104.00	590	150.00	88
48.00	866	74.00	21888	105.00	210	155.00	237
49.00	4735	75.00	63592	106.00	514	157.00	206
50.00	22816	76.00	5733	115.00	97	161.00	118
51.00	7117	77.00	836	116.00	504	173.00	1521
52.00	304	78.00	708	117.00	803	174.00	126104
55.00	442	79.00	3409	118.00	451	175.00	9808
56.00	2008	80.00	1125	119.00	708	176.00	120000
57.00	3411	81.00	3594	128.00	418	177.00	7653
60.00	1079	82.00	794	129.00	110	178.00	217
61.00	5915	87.00	5915	130.00	532	193.00	410
62.00	6198	88.00	4892	135.00	365	209.00	208

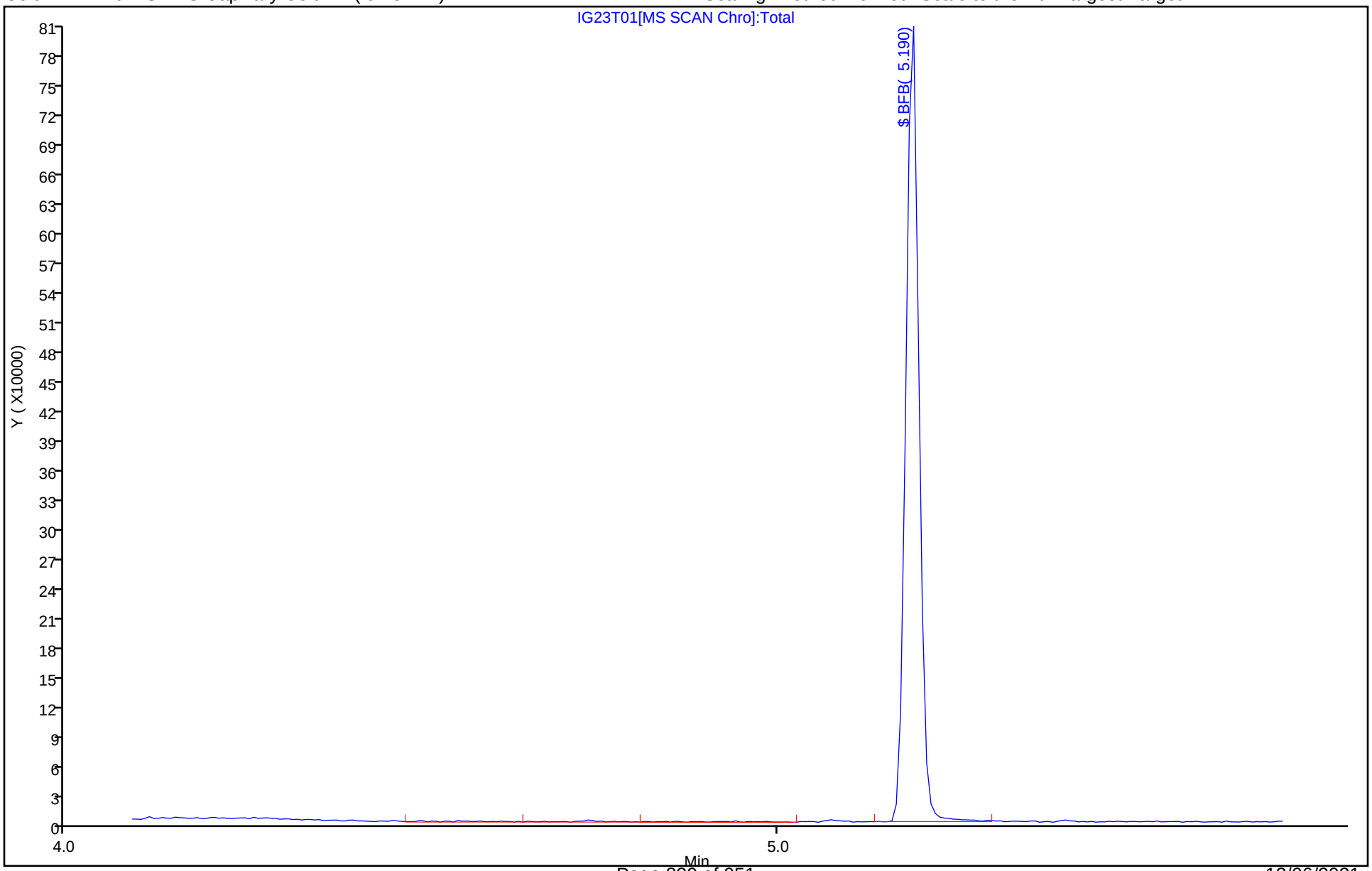
Report Date: 24-Aug-2021 15:42:35 Chrom Revision: 2.3 03-Aug-2021 10:08:16

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23T01.D

Injection Date:	23-Aug-2021 20:56:30	Instrument ID:	19930	Operator ID:	mec29284
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02T01.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	02-Dec-2021 10:06:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:					
Misc. Info.:	BFB				
Operator ID:	KNK41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	02-Dec-2021 15:25:13	Calib Date:	24-Aug-2021 02:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1637				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 145 BFB	95	5.172	5.172	0.000	0	213968	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

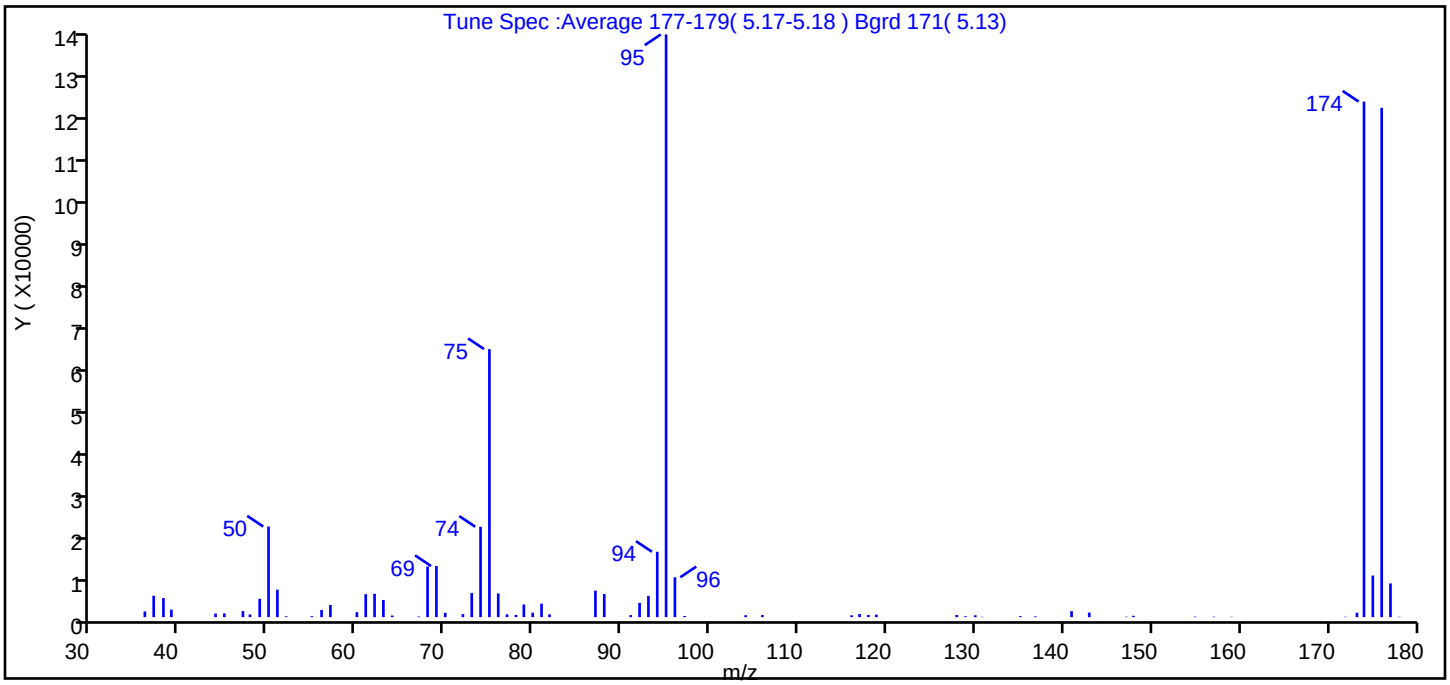
MSV_V_BFB_00006 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02T01.D
Injection Date: 02-Dec-2021 10:06:30 Instrument ID: 19930
Lims ID: BFB
Client ID:
Operator ID: KNK41612 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 145 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.5
75	30 to 60% of m/z 95	46.0
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.8 (0.9)
174	50 to 120% of m/z 95	88.5
175	5 to 9% of m/z 174	7.1 (8.1)
176	Greater than 95% but less than 101% of m/z 174	87.4 (98.8)
177	5 to 9% of m/z 176	5.8 (6.6)

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02T01.D\8260 25ml HP31.rslt\spectra.d
Injection Date: 02-Dec-2021 10:06:30
Spectrum: Tune Spec :Average 177-179(5.17-5.18) Bgrd 171(5.13)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 70

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1348	63.00	4076	88.00	5505	135.00	233
37.00	5092	64.00	385	91.00	479	137.00	184
38.00	4531	67.00	154	92.00	3379	141.00	1412
39.00	1781	68.00	12051	93.00	5055	143.00	1091
44.00	854	69.00	12147	94.00	15539	147.00	107
45.00	883	70.00	1020	95.00	138496	148.00	331
47.00	1441	72.00	709	96.00	9480	155.00	129
48.00	643	73.00	5755	97.00	275	157.00	109
49.00	4371	74.00	21488	104.00	460	159.00	87
50.00	21536	75.00	63712	106.00	501	172.00	90
51.00	6532	76.00	5630	116.00	437	173.00	1049
52.00	200	77.00	670	117.00	750	174.00	122544
55.00	225	78.00	526	118.00	515	175.00	9886
56.00	1714	79.00	3009	119.00	610	176.00	121072
57.00	2896	80.00	1055	128.00	510	177.00	8009
60.00	1193	81.00	3213	129.00	212	178.00	89
61.00	5459	82.00	672	130.00	438		
62.00	5546	87.00	6306	131.00	84		

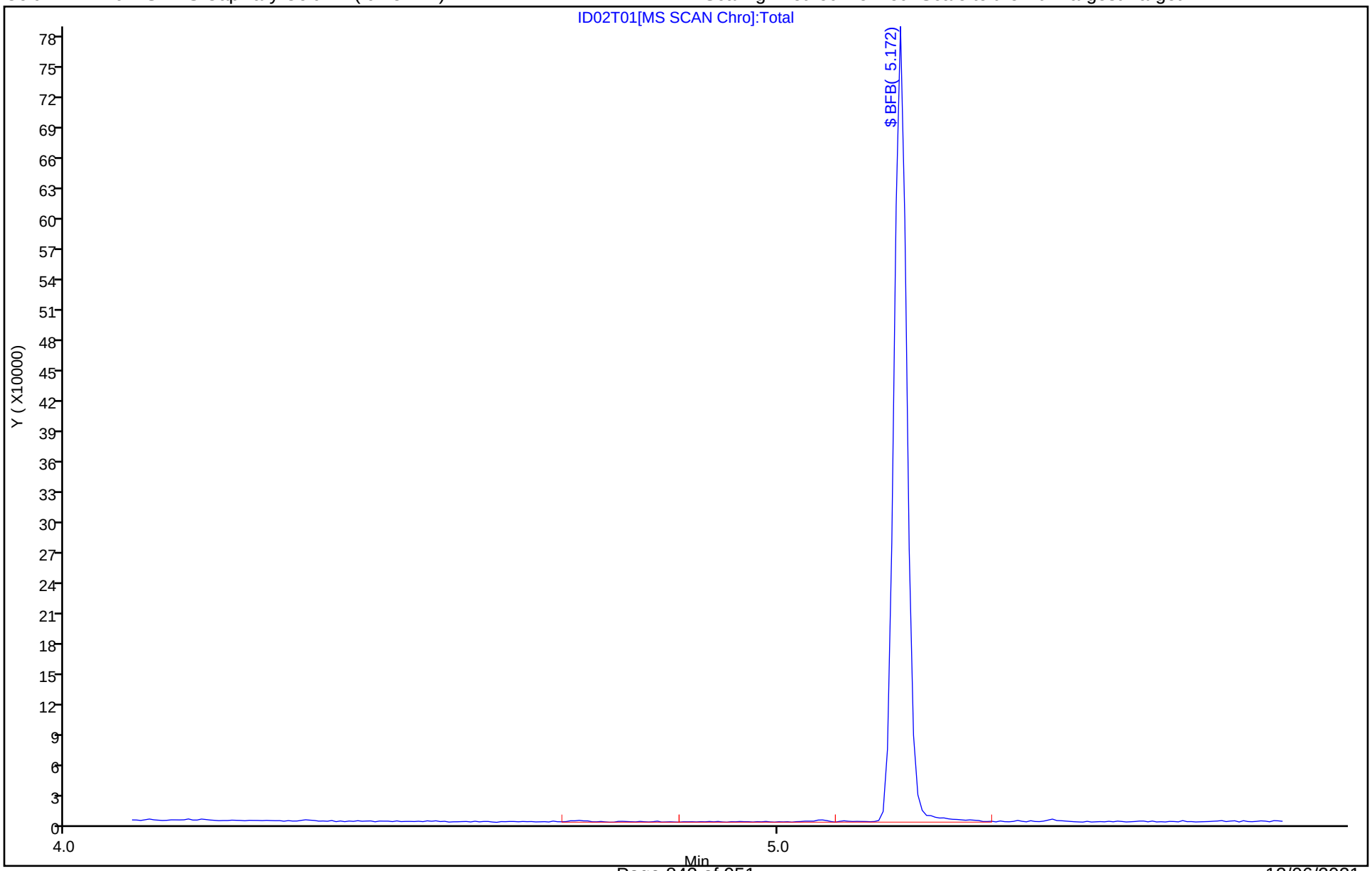
Report Date: 02-Dec-2021 15:25:13 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02T01.D

Injection Date:	02-Dec-2021 10:06:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03T01.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	03-Dec-2021 09:12:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0045448-001				
Misc. Info.:	BFB				
Operator ID:	KNK41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	03-Dec-2021 12:34:52	Calib Date:	24-Aug-2021 02:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1629				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 145 BFB	95	5.172	5.172	0.000	0	182459	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

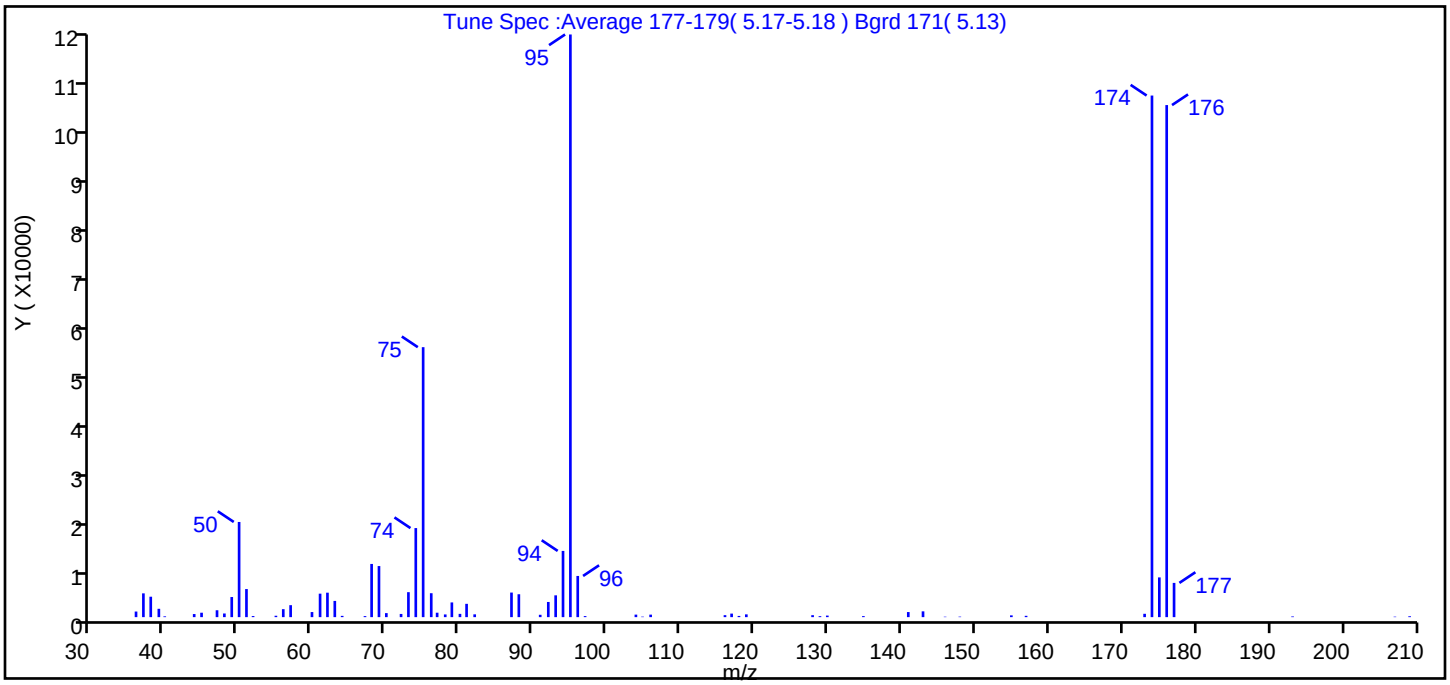
MSV_V_BFB_00006 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03T01.D
Injection Date: 03-Dec-2021 09:12:30 Instrument ID: 19930
Lims ID: BFB
Client ID:
Operator ID: KNK41612 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 145 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.3
75	30 to 60% of m/z 95	46.3
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.6 (0.6)
174	50 to 120% of m/z 95	89.5
175	5 to 9% of m/z 174	6.8 (7.6)
176	Greater than 95% but less than 101% of m/z 174	87.9 (98.2)
177	5 to 9% of m/z 176	5.9 (6.7)

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03T01.D\8260 25ml HP31.rslt\spectra.d
Injection Date: 03-Dec-2021 09:12:30
Spectrum: Tune Spec :Average 177-179(5.17-5.18) Bgrd 171(5.13)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 70

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1130	62.00	4928	87.00	4953	130.00	313
37.00	4792	63.00	3269	88.00	4613	135.00	206
38.00	4116	64.00	258	91.00	475	141.00	1024
39.00	1681	67.00	209	92.00	3057	143.00	1169
40.00	159	68.00	10718	93.00	4394	146.00	87
44.00	625	69.00	10292	94.00	13342	148.00	103
45.00	892	70.00	812	95.00	117392	155.00	358
47.00	1388	72.00	645	96.00	8298	157.00	267
48.00	736	73.00	5032	97.00	212	173.00	675
49.00	4052	74.00	17944	104.00	509	174.00	105088
50.00	19176	75.00	54392	105.00	101	175.00	8007
51.00	5658	76.00	4821	106.00	507	176.00	103168
52.00	219	77.00	892	116.00	399	177.00	6899
55.00	282	78.00	546	117.00	715	193.00	138
56.00	1608	79.00	2964	118.00	242	207.00	96
57.00	2412	80.00	661	119.00	560	209.00	177
60.00	1025	81.00	2682	128.00	396		
61.00	4730	82.00	566	129.00	193		

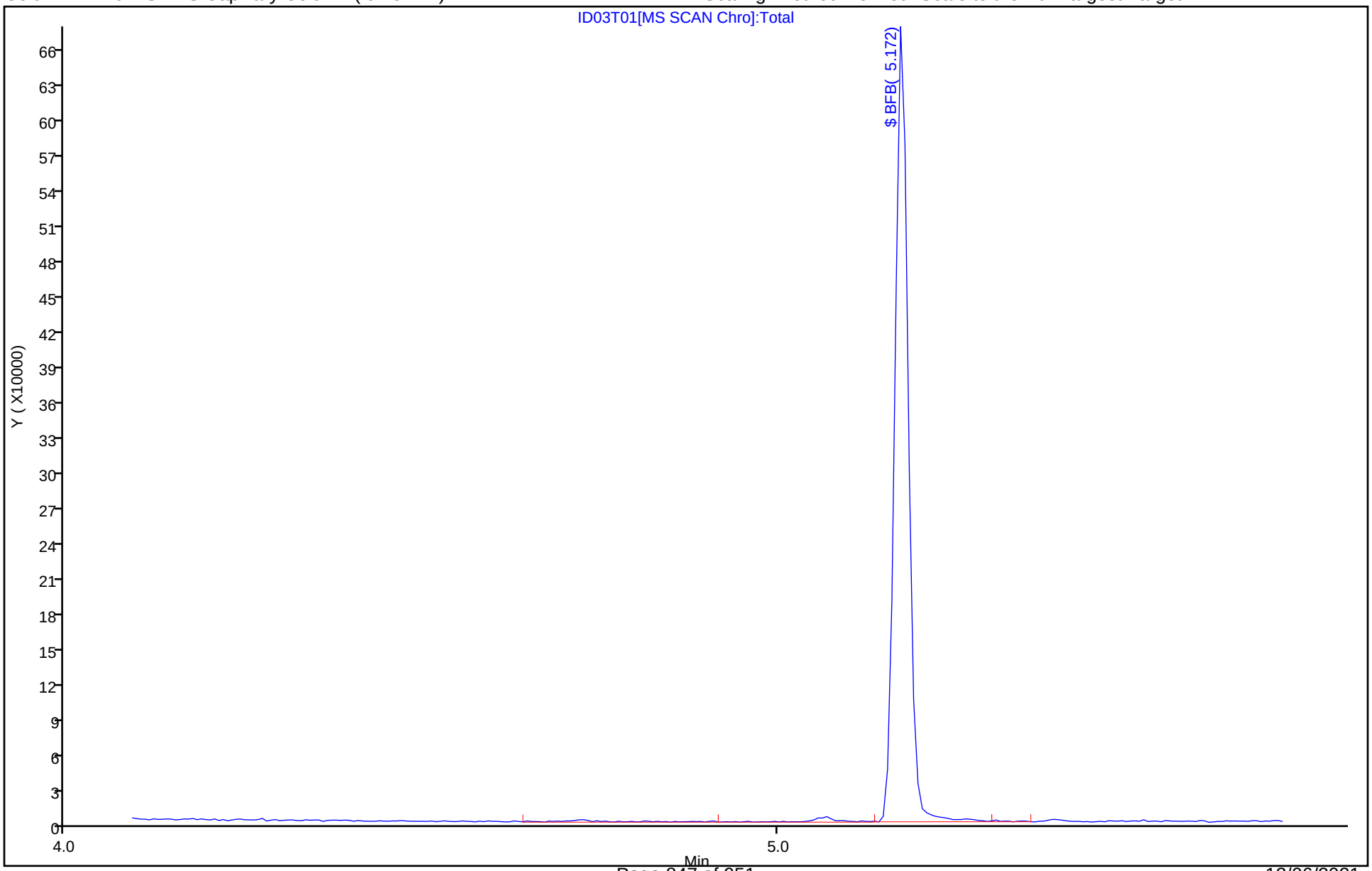
Report Date: 03-Dec-2021 12:34:53 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03T01.D

Injection Date:	03-Dec-2021 09:12:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-200572/8

Matrix: Water Lab File ID: ID02X07.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 12/02/2021 12:30

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 200572 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND		5.0	0.60
591-78-6	2-Hexanone	ND		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70
67-64-1	Acetone	ND		5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	ND		0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	ND		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-200572/8

Matrix: Water Lab File ID: ID02X07.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 12/02/2021 12:30

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 200572 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		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)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X07.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 02-Dec-2021 12:30:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045241-008
Misc. Info.: MB
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 02-Dec-2021 15:25:14 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1637

First Level Reviewer: kephartk Date: 02-Dec-2021 13:07:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.965					ND	
2 Chlorodifluoromethane	51		1.989					ND	
3 Dimethyl ether	45		2.050					ND	
4 Chloromethane	50		2.166					ND	7
6 Butadiene	39		2.276					ND	7
5 Vinyl chloride	62		2.282					ND	
7 Bromomethane	94		2.611					ND	7
8 Chloroethane	64		2.690					ND	
9 Dichlorofluoromethane	67		2.922					ND	7
10 Trichlorofluoromethane	101		2.995					ND	
11 Ethyl ether	59		3.227					ND	
12 1,2-Dichloro-1,1,2-trifluoroetha	67		3.318					ND	
13 Acrolein	56		3.404					ND	7
14 1,1-Dichloroethene	96		3.538					ND	
15 Acetone	43		3.574					ND	7
16 112TCTFE	101		3.580					ND	
17 Iodomethane	142		3.739					ND	
18 Ethyl bromide	108		3.763					ND	
19 Carbon disulfide	76		3.842					ND	7
21 Methyl acetate	43		3.983					ND	
20 Acetonitrile	41		3.995					ND	
22 3-Chloro-1-propene	41		4.013					ND	
23 Methylene Chloride	84		4.202					ND	
* 24 t-Butyl alcohol-d10 (IS)	65	4.251	4.288	-0.037	22	132251	50.0	50.0	
25 2-Methyl-2-propanol	59		4.397					ND	
26 Acrylonitrile	53		4.531					ND	
27 Methyl tert-butyl ether	73		4.605					ND	
28 trans-1,2-Dichloroethene	96		4.617					ND	
29 Hexane	57		5.043					ND	
31 1,1-Dichloroethane	63		5.275					ND	
30 Vinyl acetate	43		5.312					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Isopropyl ether	45		5.330				ND		
33 2-Chloro-1,3-butadiene	53		5.385				ND		
34 Tert-butyl ethyl ether	59		5.873				ND		
36 2-Butanone (MEK)	43		6.080				ND		
37 cis-1,2-Dichloroethene	96		6.110				ND		
38 2,2-Dichloropropane	77		6.129				ND		
S 35 1,2-Dichloroethene, Total	100		6.155				ND		7
40 Propionitrile	54		6.177				ND		
39 Ethyl acetate	43		6.190				ND		
41 Methyl acrylate	55		6.220				ND		
42 Methacrylonitrile	67		6.372				ND		
43 Chlorobromomethane	128		6.440				ND		
44 Tetrahydrofuran	71		6.452				ND		
45 Chloroform	83		6.592				ND		
$ 46 Dibromofluoromethane (Surr)	113	6.799	6.805	-0.006	94	624614	10.0	9.98	
47 1,1,1-Trichloroethane	97		6.818				ND		
48 Cyclohexane	56		6.921				ND		
49 1-Chlorobutane	56		7.019				ND		
51 1,1-Dichloropropene	75		7.031				ND		
50 Carbon tetrachloride	117		7.031				ND		
52 Isobutyl alcohol	41		7.214				ND		
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.256	7.263	-0.007	83	125163	10.0	10.0	
54 Benzene	78		7.293				ND		
56 1,2-Dichloroethane	62		7.366				ND		
55 Isopropyl acetate	43		7.415				ND		
57 Tert-amyl methyl ether	73		7.482				ND		
* 58 Fluorobenzene (IS)	96	7.689	7.695	-0.006	99	2485721	10.0	10.0	
59 n-Heptane	43		7.708				ND		7
60 n-Butanol	56		8.086				ND		
61 Trichloroethene	95		8.177				ND		
62 Methylcyclohexane	83		8.488				ND		
63 1,2-Dichloropropane	63		8.506				ND		
64 Methyl methacrylate	69		8.585				ND		
66 Dibromomethane	93		8.616				ND		
65 1,4-Dioxane	88		8.634				ND		
67 n-Propyl acetate	43		8.707				ND		
68 Dichlorobromomethane	83		8.854				ND		
69 2-Nitropropane	41		9.116				ND		
70 Chloroacetonitrile	75		9.226				ND		
72 1-Bromo-2-chloroethane	63		9.244				ND		
71 2-Chloroethyl vinyl ether	63		9.256				ND		
73 cis-1,3-Dichloropropene	75		9.396				ND		
74 4-Methyl-2-pentanone (MIBK)	43		9.567				ND		
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2580279	10.0	10.1	
76 Toluene	92		9.786				ND		7
78 trans-1,3-Dichloropropene	75		10.042				ND		
S 77 1,3-Dichloropropene, Total	100		10.060				ND		7
79 Ethyl methacrylate	69		10.103				ND		
80 1,1,2-Trichloroethane	97		10.244				ND		
81 Tetrachloroethene	166		10.335				ND		
82 1,3-Dichloropropane	76		10.408				ND		
83 2-Hexanone	43		10.457				ND		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 n-Butyl acetate	43		10.603					ND	
85 Chlorodibromomethane	129		10.622					ND	
86 Ethylene Dibromide	107		10.737					ND	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	1982143	10.0	10.0	
88 1-Chlorohexane	91		11.170					ND	7
90 Chlorobenzene	112		11.189					ND	
S 89 Xylenes, Total	106		11.245					ND	7
91 1,1,1,2-Tetrachloroethane	131		11.274					ND	
92 Ethylbenzene	91		11.274					ND	
93 m-Xylene & p-Xylene	106		11.390					ND	7
94 o-Xylene	106		11.719					ND	
95 Styrene	104		11.731					ND	
96 Bromoform	173		11.896					ND	
97 Isopropylbenzene	105		12.018					ND	
98 cis-1,4-Dichloro-2-butene	88		12.079					ND	
99 Cyclohexanone	55		12.121					ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	93	977692	10.0	9.99	
101 1,1,2,2-Tetrachloroethane	83		12.262					ND	
102 Bromobenzene	156		12.280					ND	
103 trans-1,4-Dichloro-2-butene	53		12.286					ND	
104 1,2,3-Trichloropropane	110		12.310					ND	
105 N-Propylbenzene	91		12.347					ND	
106 2-Chlorotoluene	126		12.426					ND	
107 1,3,5-Trimethylbenzene	105		12.481					ND	
108 4-Chlorotoluene	126		12.518					ND	
109 tert-Butylbenzene	134		12.725					ND	
110 Pentachloroethane	167		12.755					ND	
111 1,2,4-Trimethylbenzene	105		12.768					ND	
112 sec-Butylbenzene	105		12.889					ND	7
113 1,3-Dichlorobenzene	146		12.987					ND	
114 4-Isopropyltoluene	119		12.993					ND	7
* 115 1,4-Dichlorobenzene-d4	152	13.042	13.042	0.000	94	1154305	10.0	10.0	
116 1,4-Dichlorobenzene	146		13.060					ND	
117 1,2,3-Trimethylbenzene	120		13.066					ND	7
118 Benzyl chloride	126		13.133					ND	
119 n-Butylbenzene	92		13.286					ND	7
120 1,2-Dichlorobenzene	146		13.316					ND	
121 Hexachloroethane	117		13.542					ND	
122 1,2-Dibromo-3-Chloropropane	155		13.859					ND	
123 1,3,5-Trichlorobenzene	180		13.987					ND	7
124 1,2,4-Trichlorobenzene	180		14.407					ND	
125 Hexachlorobutadiene	225	14.487	14.493	-0.006	91	2040		0.0431	
126 Naphthalene	128		14.590					ND	7
127 1,2,3-Trichlorobenzene	180		14.731					ND	7
128 Dodecane	57		0.000					ND	
141 1-Chloropropane	1		0.000					ND	
129 Propene oxide	1		0.000					ND	
207 Acetonitrile TIC	1		0.000					ND	
130 Chlorotrifluoroethene	1		0.000					ND	
206 Pentachloroethane TIC	1		0.000					ND	
142 2-Bromo-1-chloropropane	1		0.000					ND	
131 tert-Butyl Formate	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
132 Methylal	1		0.000					ND	
133 t-Amyl alcohol	1		0.000					ND	
134 Isopropyl alcohol	45		0.000					ND	
144 2-ethoxy-2-methyl butane	1		0.000					ND	
136 2-Chloro-1,1,1-Trifluoroethane	1		0.000					ND	
135 p-Diethylbenzene	1		0.000					ND	
137 2-Methylnaphthalene	142		0.000					ND	
138 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
202 1,3-Dichloro-2-propanol TIC	1		0.000					ND	
203 Propargyl alcohol TIC	1		0.000					ND	
204 Pentane	43		0.000					ND	
143 n-Decane	57		0.000					ND	
139 1-Bromo-3-Chloropropane	1		0.000					ND	
205 1,1-Dichloroacetone	1		0.000					ND	
140 Ethanol	45		3.269					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_LLcentISS_00002 Amount Added: 5.00 Units: uL Run Reagent

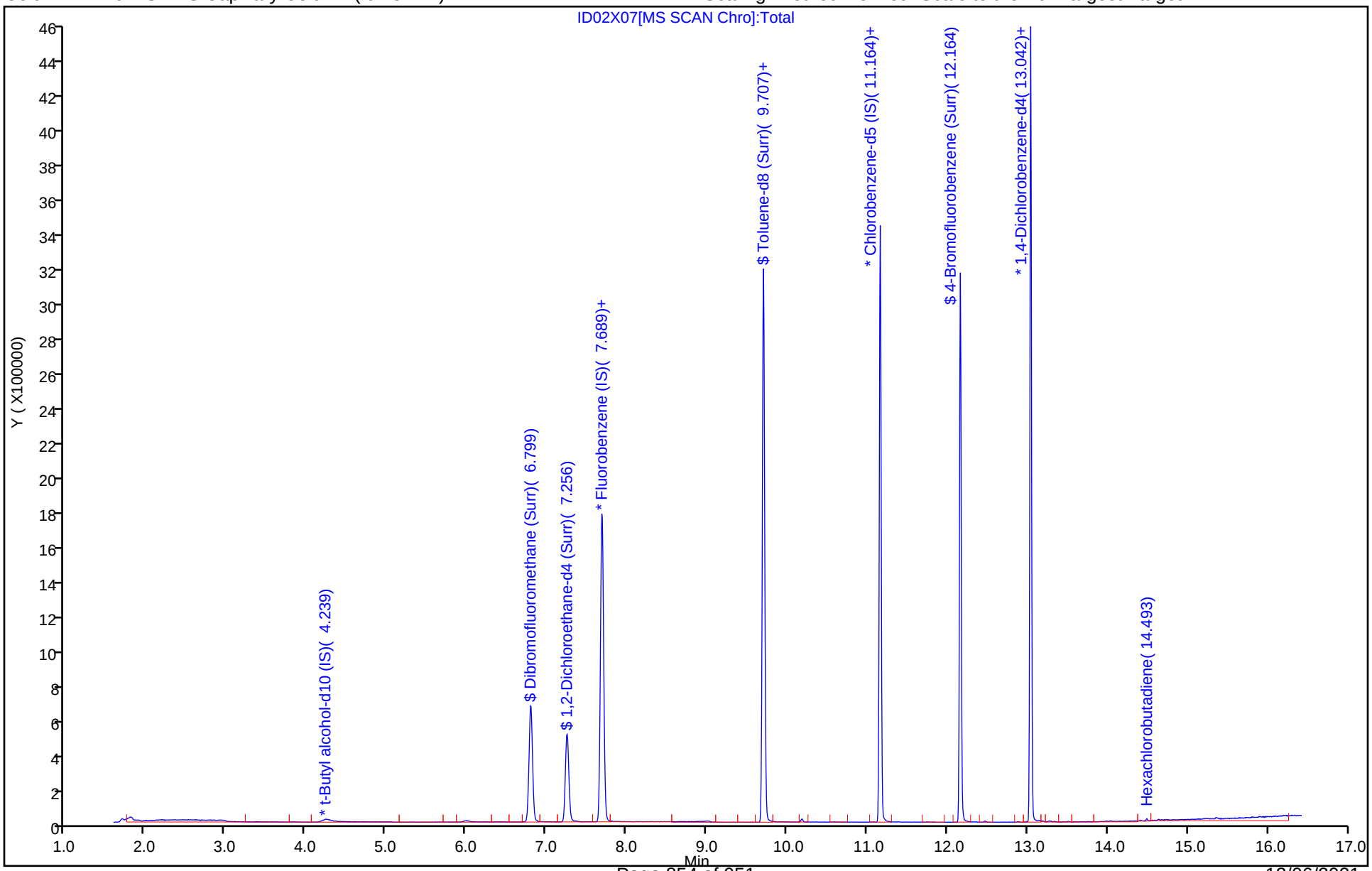
Report Date: 02-Dec-2021 15:25:31 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X07.D

Injection Date:	02-Dec-2021 12:30:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X07.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 02-Dec-2021 12:30:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045241-008
Misc. Info.: MB
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 02-Dec-2021 15:25:14 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1637

First Level Reviewer: kephartk Date: 02-Dec-2021 13:07:56

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	9.98	99.75
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.0	99.92
$ 75 Toluene-d8 (Surr)	10.0	10.1	100.73
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.99	99.87

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-201082/11

Matrix: Water Lab File ID: ID03X10.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 12/03/2021 12:38

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201082 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND		5.0	0.60
591-78-6	2-Hexanone	ND		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70
67-64-1	Acetone	ND		5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	ND		0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	ND		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-201082/11

Matrix: Water Lab File ID: ID03X10.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 12/03/2021 12:38

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201082 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

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)	102		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X10.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 03-Dec-2021 12:38:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045448-011
Misc. Info.: MB
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 03-Dec-2021 13:57:33 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1629

First Level Reviewer: kephartk Date: 03-Dec-2021 13:57:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85		1.971					ND	
2 Chlorodifluoromethane	51		1.989					ND	
3 Dimethyl ether	45		2.050					ND	
4 Chloromethane	50	2.160	2.172	-0.012	1	1447		0.0168	7a
6 Butadiene	39		2.282					ND	7
5 Vinyl chloride	62		2.288					ND	
7 Bromomethane	94		2.617					ND	
8 Chloroethane	64		2.690					ND	
9 Dichlorofluoromethane	67		2.928					ND	
10 Trichlorofluoromethane	101		3.001					ND	
11 Ethyl ether	59		3.233					ND	
12 1,2-Dichloro-1,1,2-trifluoroetha	67		3.324					ND	
13 Acrolein	56		3.404					ND	
14 1,1-Dichloroethene	96		3.544					ND	
15 Acetone	43		3.568					ND	7
16 112TCTFE	101		3.587					ND	
17 Iodomethane	142		3.739					ND	
18 Ethyl bromide	108		3.769					ND	
19 Carbon disulfide	76		3.849					ND	7
21 Methyl acetate	43		3.989					ND	
20 Acetonitrile	41		3.995					ND	
22 3-Chloro-1-propene	41		4.013					ND	
23 Methylene Chloride	84		4.202					ND	
* 24 t-Butyl alcohol-d10 (IS)	65	4.190	4.208	-0.018	17	160804	50.0	50.0	
25 2-Methyl-2-propanol	59		4.330					ND	
26 Acrylonitrile	53		4.531					ND	
27 Methyl tert-butyl ether	73		4.605					ND	
28 trans-1,2-Dichloroethene	96		4.623					ND	
29 Hexane	57		5.044					ND	
31 1,1-Dichloroethane	63		5.281					ND	
30 Vinyl acetate	43		5.312					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Isopropyl ether	45		5.336				ND		
33 2-Chloro-1,3-butadiene	53		5.391				ND		
34 Tert-butyl ethyl ether	59		5.873				ND		
36 2-Butanone (MEK)	43		6.068				ND		
37 cis-1,2-Dichloroethene	96		6.110				ND		
38 2,2-Dichloropropane	77		6.129				ND		
S 35 1,2-Dichloroethene, Total	100		6.155				ND		7
40 Propionitrile	54		6.159				ND		
39 Ethyl acetate	43		6.190				ND		
41 Methyl acrylate	55		6.220				ND		
42 Methacrylonitrile	67		6.373				ND		
43 Chlorobromomethane	128		6.446				ND		
44 Tetrahydrofuran	71		6.452				ND		
45 Chloroform	83		6.592				ND		
$ 46 Dibromofluoromethane (Surr)	113	6.799	6.805	-0.006	94	620131	10.0	10.2	
47 1,1,1-Trichloroethane	97		6.824				ND		
48 Cyclohexane	56		6.921				ND		
49 1-Chlorobutane	56		7.019				ND		
51 1,1-Dichloropropene	75		7.037				ND		
50 Carbon tetrachloride	117		7.037				ND		
52 Isobutyl alcohol	41		7.171				ND		
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.257	7.257	0.000	83	126587	10.0	10.4	
54 Benzene	78		7.293				ND		
56 1,2-Dichloroethane	62		7.366				ND		
55 Isopropyl acetate	43		7.415				ND		
57 Tert-amyl methyl ether	73		7.482				ND		
* 58 Fluorobenzene (IS)	96	7.689	7.695	-0.006	99	2423687	10.0	10.0	
59 n-Heptane	43		7.708				ND		7
60 n-Butanol	56		8.055				ND		
61 Trichloroethene	95		8.177				ND		
62 Methylcyclohexane	83		8.488				ND		
63 1,2-Dichloropropane	63		8.506				ND		
64 Methyl methacrylate	69		8.586				ND		
65 1,4-Dioxane	88		8.604				ND		
66 Dibromomethane	93		8.622				ND		
67 n-Propyl acetate	43		8.707				ND		
68 Dichlorobromomethane	83		8.854				ND		
69 2-Nitropropane	41		9.116				ND		
70 Chloroacetonitrile	75		9.226				ND		
72 1-Bromo-2-chloroethane	63		9.250				ND		
71 2-Chloroethyl vinyl ether	63		9.256				ND		
73 cis-1,3-Dichloropropene	75		9.402				ND		
74 4-Methyl-2-pentanone (MIBK)	43		9.567				ND		
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2552783	10.0	10.1	
76 Toluene	92		9.787				ND		
78 trans-1,3-Dichloropropene	75		10.043				ND		
S 77 1,3-Dichloropropene, Total	100		10.060				ND		7
79 Ethyl methacrylate	69		10.104				ND		
80 1,1,2-Trichloroethane	97		10.250				ND		
81 Tetrachloroethene	166		10.335				ND		
82 1,3-Dichloropropane	76		10.408				ND		
83 2-Hexanone	43		10.457				ND		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 n-Butyl acetate	43		10.603					ND	
85 Chlorodibromomethane	129		10.628					ND	
86 Ethylene Dibromide	107		10.738					ND	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	1954568	10.0	10.0	
88 1-Chlorohexane	91		11.177					ND	7
90 Chlorobenzene	112		11.195					ND	
S 89 Xylenes, Total	106		11.245					ND	7
91 1,1,1,2-Tetrachloroethane	131		11.274					ND	
92 Ethylbenzene	91		11.280					ND	
93 m-Xylene & p-Xylene	106		11.390					ND	
94 o-Xylene	106		11.719					ND	
95 Styrene	104		11.737					ND	
96 Bromoform	173		11.896					ND	
97 Isopropylbenzene	105		12.024					ND	
98 cis-1,4-Dichloro-2-butene	88		12.079					ND	
99 Cyclohexanone	55		12.121					ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	93	963045	10.0	9.98	
101 1,1,2,2-Tetrachloroethane	83		12.262					ND	
102 Bromobenzene	156		12.280					ND	
103 trans-1,4-Dichloro-2-butene	53		12.286					ND	
104 1,2,3-Trichloropropane	110		12.310					ND	
105 N-Propylbenzene	91		12.347					ND	
106 2-Chlorotoluene	126		12.426					ND	
107 1,3,5-Trimethylbenzene	105		12.481					ND	
108 4-Chlorotoluene	126		12.518					ND	
109 tert-Butylbenzene	134		12.725					ND	
110 Pentachloroethane	167		12.762					ND	
111 1,2,4-Trimethylbenzene	105		12.768					ND	
112 sec-Butylbenzene	105		12.890					ND	
113 1,3-Dichlorobenzene	146		12.987					ND	
114 4-Isopropyltoluene	119	12.999	12.993	0.006	1	705		0.002064	7a
* 115 1,4-Dichlorobenzene-d4	152	13.042	13.042	0.000	94	1137870	10.0	10.0	
116 1,4-Dichlorobenzene	146		13.060					ND	7
117 1,2,3-Trimethylbenzene	120		13.072					ND	7
118 Benzyl chloride	126		13.140					ND	7
119 n-Butylbenzene	92		13.286					ND	
120 1,2-Dichlorobenzene	146		13.322					ND	
121 Hexachloroethane	117		13.542					ND	
122 1,2-Dibromo-3-Chloropropane	155		13.859					ND	
123 1,3,5-Trichlorobenzene	180		13.987					ND	7
124 1,2,4-Trichlorobenzene	180		14.408					ND	
125 Hexachlorobutadiene	225		14.493					ND	7
126 Naphthalene	128		14.590					ND	7
127 1,2,3-Trichlorobenzene	180		14.731					ND	
128 Dodecane	57		0.000					ND	
141 1-Chloropropane	1		0.000					ND	
129 Propene oxide	1		0.000					ND	
207 Acetonitrile TIC	1		0.000					ND	
130 Chlorotrifluoroethene	1		0.000					ND	
206 Pentachloroethane TIC	1		0.000					ND	
142 2-Bromo-1-chloropropane	1		0.000					ND	
131 tert-Butyl Formate	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
132 Methylal	1		0.000					ND	
133 t-Amyl alcohol	1		0.000					ND	
134 Isopropyl alcohol	45		0.000					ND	
144 2-ethoxy-2-methyl butane	1		0.000					ND	
136 2-Chloro-1,1,1-Trifluoroethane	1		0.000					ND	
135 p-Diethylbenzene	1		0.000					ND	
137 2-Methylnaphthalene	142		0.000					ND	
138 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
202 1,3-Dichloro-2-propanol TIC	1		0.000					ND	
203 Propargyl alcohol TIC	1		0.000					ND	
204 Pentane	43		0.000					ND	
143 n-Decane	57		0.000					ND	
139 1-Bromo-3-Chloropropane	1		0.000					ND	
205 1,1-Dichloroacetone	1		0.000					ND	
140 Ethanol	45		3.269					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

MSV_LLcentISS_00002 Amount Added: 5.00 Units: uL Run Reagent

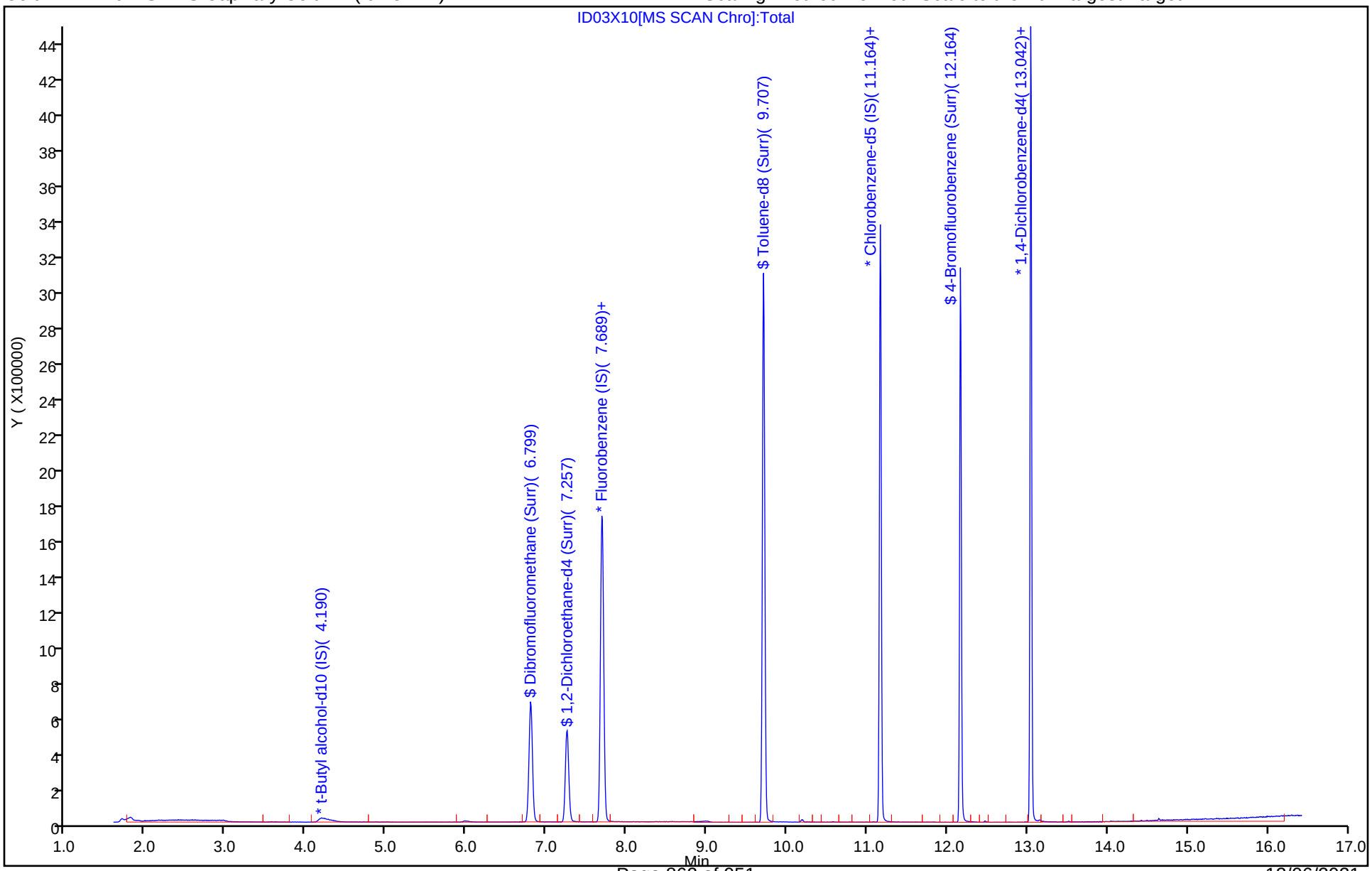
Report Date: 03-Dec-2021 13:57:44 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X10.D

Injection Date:	03-Dec-2021 12:38:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	MB			Worklist Smp#:	11
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X10.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	03-Dec-2021 12:38:30	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0045448-011				
Misc. Info.:	MB				
Operator ID:	KNK41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	03-Dec-2021 13:57:33	Calib Date:	24-Aug-2021 02:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1629				

First Level Reviewer: kephartk Date: 03-Dec-2021 13:57:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.2	101.57
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	103.64
$ 75 Toluene-d8 (Surr)	10.0	10.1	101.06
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.98	99.76

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

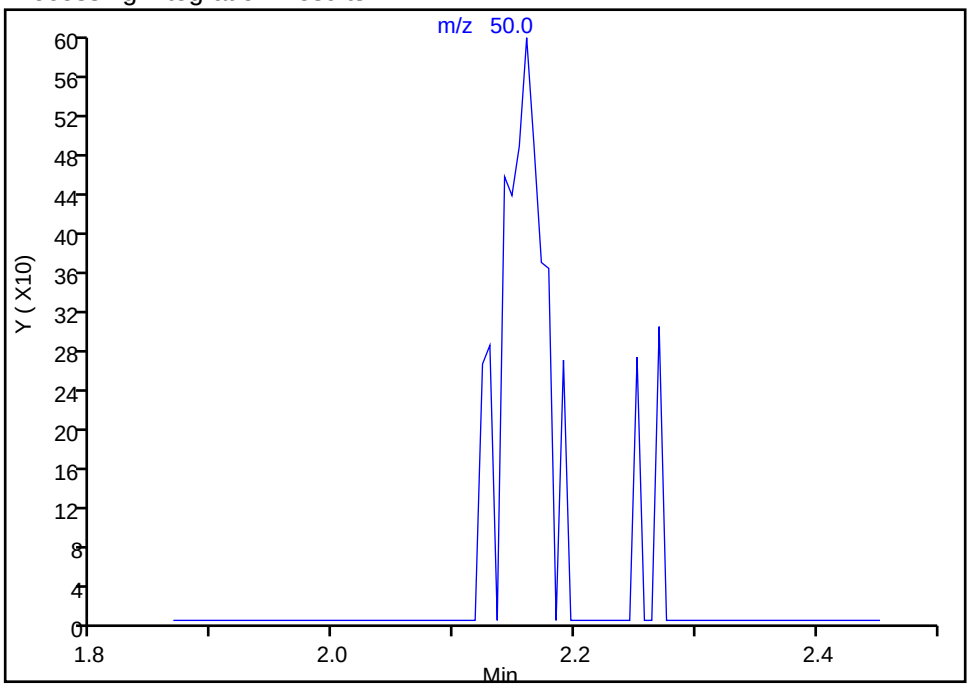
Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X10.D
Injection Date: 03-Dec-2021 12:38:30 Instrument ID: 19930
Lims ID: MB
Client ID:
Operator ID: KNK41612 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

4 Chloromethane, CAS: 74-87-3

Signal: 1

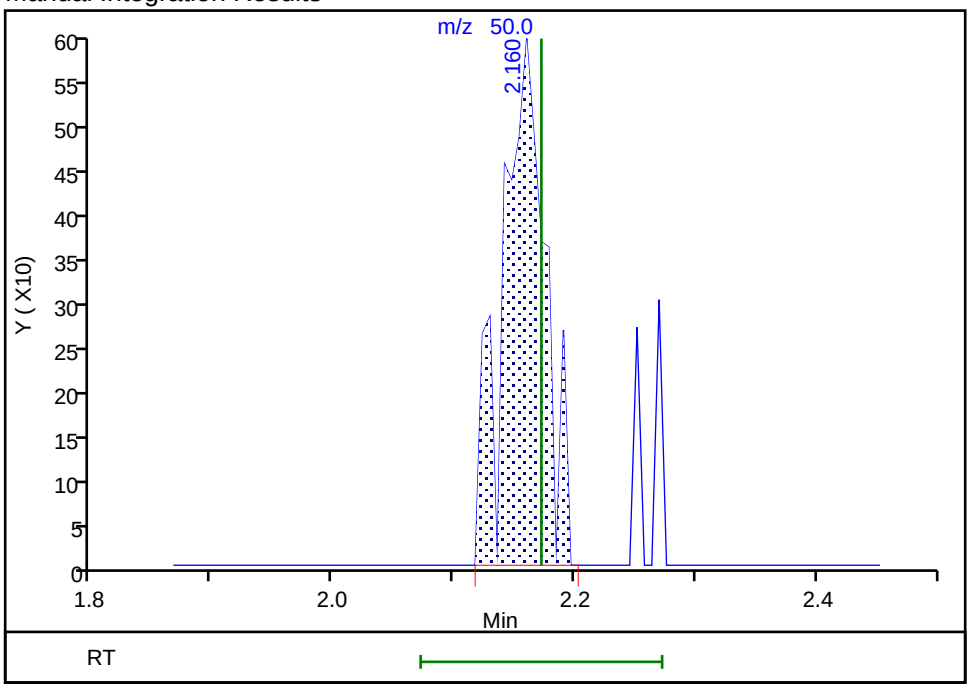
Not Detected
Expected RT: 2.17

Processing Integration Results



Manual Integration Results

RT: 2.16
Area: 1447
Amount: 0.016755
Amount Units: ug/l



Reviewer: kephartk, 03-Dec-2021 13:56:31
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-201490/8

Matrix: Water Lab File ID: GD04X07.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 12/04/2021 11:51

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201490 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	0.060
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.070
79-00-5	1,1,2-Trichloroethane	ND		0.50	0.060
75-34-3	1,1-Dichloroethane	ND		0.50	0.070
75-35-4	1,1-Dichloroethene	ND		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	ND		0.50	0.060
107-06-2	1,2-Dichloroethane	ND		0.50	0.050
78-87-5	1,2-Dichloropropane	ND		0.50	0.060
78-93-3	2-Butanone (MEK)	ND		5.0	0.60
591-78-6	2-Hexanone	ND		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70
67-64-1	Acetone	ND		5.0	0.90
71-43-2	Benzene	ND		0.50	0.050
74-97-5	Bromochloromethane	ND		0.50	0.050
75-27-4	Bromodichloromethane	ND		0.50	0.050
75-25-2	Bromoform	ND		1.0	0.30
74-83-9	Bromomethane	ND		0.50	0.070
75-15-0	Carbon disulfide	ND		1.0	0.060
56-23-5	Carbon tetrachloride	ND		0.50	0.070
108-90-7	Chlorobenzene	ND		0.50	0.060
75-00-3	Chloroethane	ND		0.50	0.070
67-66-3	Chloroform	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	ND		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.050
124-48-1	Dibromochloromethane	ND		0.50	0.070
100-41-4	Ethylbenzene	ND		0.50	0.060
1634-04-4	Methyl tert-butyl ether	ND		0.50	0.050
75-09-2	Methylene Chloride	ND		0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	ND		0.50	0.060
108-88-3	Toluene	ND		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	ND		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.060
79-01-6	Trichloroethene	ND		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-201490/8

Matrix: Water Lab File ID: GD04X07.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 12/04/2021 11:51

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201490 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	ND		0.50	0.10
1330-20-7	Xylenes, Total	ND		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04X07.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 04-Dec-2021 11:51:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045539-008
Misc. Info.: MB
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 04-Dec-2021 12:24:17 Calib Date: 27-Jul-2021 21:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1614

First Level Reviewer: kephartk Date: 04-Dec-2021 12:24:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.910					ND	
2 Dichlorodifluoromethane	85		1.941					ND	
3 Chlorodifluoromethane	51		1.959					ND	
4 Dimethyl ether	45		2.020					ND	
5 Chloromethane	50		2.142					ND	
7 Butadiene	39		2.258					ND	7
8 Vinyl chloride	62		2.258					ND	
6 2-Chloro-1,1,1-Trifluoroethane	118		2.330					ND	
9 Bromomethane	94		2.587					ND	
10 Chloroethane	64		2.660					ND	
12 Dichlorofluoromethane	67		2.904					ND	
13 Trichlorofluoromethane	101		2.971					ND	
14 Ethanol	45	3.160	3.190	-0.030	1	102		NC	
15 Ethyl ether	59		3.202					ND	
17 1,2-Dichloro-1,1,2-trifluoroetha	67		3.306					ND	
18 Acrolein	56		3.379					ND	7
19 1,1-Dichloroethene	96		3.507					ND	
20 112TCTFE	101		3.550					ND	
21 Acetone	43		3.562					ND	
23 Iodomethane	142		3.696					ND	
24 Ethyl bromide	108		3.727					ND	
22 Isopropyl alcohol	45		3.776					ND	
25 Carbon disulfide	76		3.800					ND	
27 Methyl acetate	43		3.946					ND	
26 Acetonitrile	41		3.964					ND	
28 3-Chloro-1-propene	41		3.983					ND	
29 Methylene Chloride	84		4.166					ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.220	4.245	-0.025	70	135704	50.0	50.0	
31 2-Methyl-2-propanol	59		4.361					ND	
32 Acrylonitrile	53		4.525					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		4.580					ND	
	35 Hexane	57		5.007					ND	
	36 Vinyl acetate	43		5.214					ND	
	37 1,1-Dichloroethane	63		5.245					ND	
	38 Isopropyl ether	45		5.312					ND	
	39 2-Chloro-1,3-butadiene	53		5.354					ND	
	40 Tert-butyl ethyl ether	59		5.842					ND	
	41 2-Butanone (MEK)	43		6.049					ND	
	42 cis-1,2-Dichloroethene	96		6.080					ND	
	43 2,2-Dichloropropane	77		6.092					ND	
	44 Ethyl acetate	43		6.104					ND	
	47 Methyl acrylate	55		6.141					ND	
	45 Propionitrile	54		6.141					ND	
S	46 1,2-Dichloroethene, Total	100		6.155					ND	7
	48 Methacrylonitrile	67		6.354					ND	
	49 Chlorobromomethane	128		6.403					ND	
	50 Tetrahydrofuran	71		6.409					ND	
	51 Chloroform	83		6.568					ND	
$	52 Dibromofluoromethane (Surr)	113	6.769	6.775	-0.006	94	553302	10.0	10.1	
	53 1,1,1-Trichloroethane	97		6.781					ND	
	54 Cyclohexane	56		6.885					ND	
	55 1-Chlorobutane	56		6.940					ND	
	56 Carbon tetrachloride	117		6.994					ND	
	57 1,1-Dichloropropene	75		6.994					ND	
	58 Isobutyl alcohol	41		7.189					ND	
$	59 1,2-Dichloroethane-d4 (Surr)	102	7.220	7.226	-0.006	30	117183	10.0	9.65	
	60 Benzene	78		7.250					ND	
	61 1,2-Dichloroethane	62		7.324					ND	
	62 Isopropyl acetate	43		7.342					ND	
	63 Tert-amyl methyl ether	73		7.446					ND	
*	64 Fluorobenzene (IS)	96	7.659	7.659	0.000	99	2190836	10.0	10.0	
	65 n-Heptane	43		7.671					ND	
	66 t-Amyl alcohol	73		7.842					ND	
	67 n-Butanol	56		8.067					ND	
	68 Trichloroethene	95		8.134					ND	
	69 Methylcyclohexane	83		8.445					ND	
	70 1,2-Dichloropropane	63		8.470					ND	
	71 2-ethoxy-2-methyl butane	87		8.482					ND	
	72 Methyl methacrylate	69		8.555					ND	
	74 Dibromomethane	93		8.573					ND	
	73 1,4-Dioxane	88		8.610					ND	
	75 n-Propyl acetate	61		8.640					ND	
	76 Dichlorobromomethane	83		8.817					ND	
	77 2-Nitropropane	41		9.098					ND	
	79 2-Chloroethyl vinyl ether	63		9.183					ND	
	78 Chloroacetonitrile	75		9.189					ND	
	80 1-Bromo-2-chloroethane	63		9.207					ND	
	81 cis-1,3-Dichloropropene	75		9.366					ND	
	82 4-Methyl-2-pentanone (MIBK)	43		9.543					ND	
$	83 Toluene-d8 (Surr)	98	9.677	9.671	0.006	93	2167380	10.0	9.76	
	84 Toluene	92		9.750					ND	7
	96 trans-1,3-Dichloropropene	75		10.006					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 97 1,3-Dichloropropene, Total	100		10.060				ND		7
98 Ethyl methacrylate	69		10.073				ND		
99 1,1,2-Trichloroethane	97		10.213				ND		
100 Tetrachloroethene	166		10.299				ND		
101 1,3-Dichloropropane	76		10.378				ND		
102 2-Hexanone	43		10.433				ND		
103 n-Butyl acetate	43		10.561				ND		
104 Chlorodibromomethane	129		10.585				ND		
105 Ethylene Dibromide	107		10.695				ND		
* 106 Chlorobenzene-d5 (IS)	117	11.128	11.128	0.000	85	1705640	10.0	10.0	
107 1-Chlorohexane	91		11.140				ND		7
108 Chlorobenzene	112		11.152				ND		
110 1,1,1,2-Tetrachloroethane	131		11.237				ND		
111 Ethylbenzene	91		11.237				ND		
S 109 Xylenes, Total	106		11.245				ND		7
112 m-Xylene & p-Xylene	106		11.353				ND		
113 o-Xylene	106		11.683				ND		
114 Styrene	104		11.695				ND		
115 Bromoform	173		11.853				ND		
116 Isopropylbenzene	105		11.981				ND		
117 cis-1,4-Dichloro-2-butene	88		12.054				ND		U
118 Cyclohexanone	55		12.091				ND		U
$ 119 4-Bromofluorobenzene (Surr)	95	12.121	12.121	0.000	92	803694	10.0	9.90	
120 1,1,2,2-Tetrachloroethane	83		12.225				ND		
121 Bromobenzene	156		12.237				ND		
122 trans-1,4-Dichloro-2-butene	53		12.249				ND		
123 1,2,3-Trichloropropane	110		12.274				ND		
124 N-Propylbenzene	91		12.304				ND		
125 2-Chlorotoluene	126		12.384				ND		
126 1,3,5-Trimethylbenzene	105		12.445				ND		
127 4-Chlorotoluene	126		12.475				ND		
128 tert-Butylbenzene	134		12.682				ND		
129 Pentachloroethane	167		12.713				ND		
130 1,2,4-Trimethylbenzene	105		12.725				ND		
131 sec-Butylbenzene	105		12.847				ND		
132 1,3-Dichlorobenzene	146		12.944				ND		7
133 4-Isopropyltoluene	119		12.951				ND		7
* 134 1,4-Dichlorobenzene-d4	152	12.999	12.999	0.000	95	920831	10.0	10.0	
135 1,4-Dichlorobenzene	146		13.018				ND		7
136 1,2,3-Trimethylbenzene	120		13.024				ND		7
137 Benzyl chloride	126		13.091				ND		
138 p-Diethylbenzene	119		13.152				ND		
139 n-Butylbenzene	92		13.243				ND		
140 1,2-Dichlorobenzene	146		13.274				ND		
141 Hexachloroethane	201		13.499				ND		
142 1,2-Dibromo-3-Chloropropane	155		13.810				ND		
143 1,3,5-Trichlorobenzene	180		13.938				ND		
144 1,2,4-Trichlorobenzene	180		14.353				ND		
145 Hexachlorobutadiene	225		14.438				ND		
146 Naphthalene	128		14.536				ND		7
147 1,2,3-Trichlorobenzene	180		14.676				ND		
148 2-Methylnaphthalene	142		15.285				ND		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
149 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
192 Vinyl acetate (TIC)	1		0.000					ND	
190 Acetonitrile TIC	1		0.000					ND	
162 Pentachloroethane TIC	1		0.000					ND	
161 1,1-Dichloroacetone	1		0.000					ND	
159 Propargyl alcohol TIC	1		0.000					ND	
158 1,3-Dichloro-2-propanol TIC	1		0.000					ND	
191 Isopropyl alcohol TIC	1		0.000					ND	
157 tert-Butyl Formate	1		0.000					ND	
155 Methylal	1		0.000					ND	
154 n-Decane	57		0.000					ND	
153 Propene oxide	1		0.000					ND	
152 1-Bromo-3-Chloropropane	1		0.000					ND	
151 1-Chloropropane	1		0.000					ND	
150 2-Bromo-1-chloropropane	1		0.000					ND	
156 Dodecane	57		0.000					ND	
160 Pentane	43		2.989					ND	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected

Reagents:

MSV_29_826ISS_00026 Amount Added: 1.00 Units: uL Run Reagent

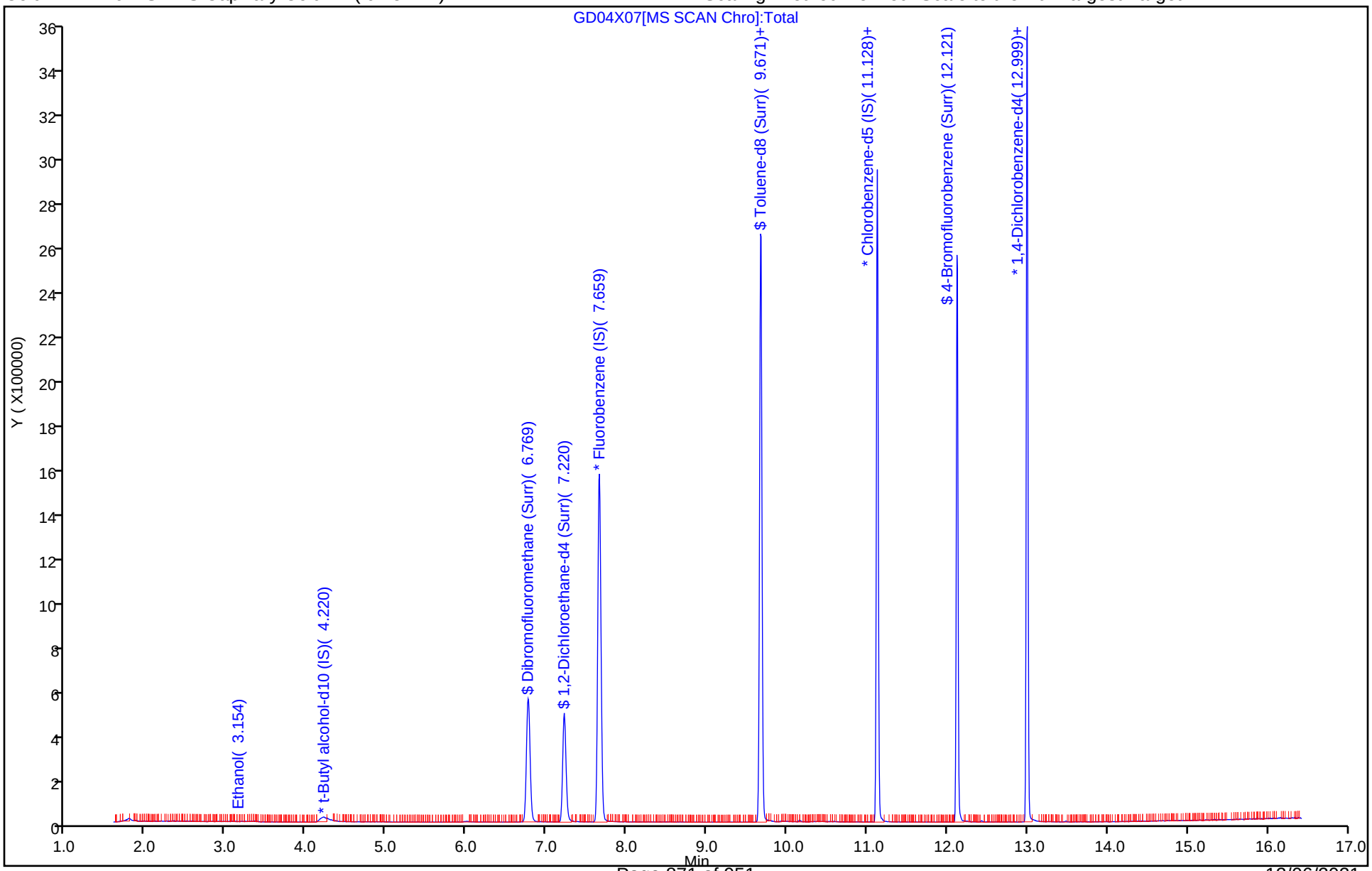
Report Date: 04-Dec-2021 12:24:33 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04X07.D

Injection Date:	04-Dec-2021 11:51:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04X07.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	04-Dec-2021 11:51:30	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0045539-008				
Misc. Info.:	MB				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20211204-45539.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	04-Dec-2021 12:24:17	Calib Date:	27-Jul-2021 21:47:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1614				
First Level Reviewer: kephartk		Date:	04-Dec-2021 12:24:04		

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.1	101.36
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.65	96.52
$ 83 Toluene-d8 (Surr)	10.0	9.76	97.58
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.90	98.98

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-200572/4

Matrix: Water Lab File ID: ID02X03.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 12/02/2021 11:05

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 200572 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.55		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.59		0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	5.62		0.50	0.070
79-00-5	1,1,2-Trichloroethane	5.80		0.50	0.060
75-34-3	1,1-Dichloroethane	5.45		0.50	0.070
75-35-4	1,1-Dichloroethene	6.00		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	5.51		0.50	0.060
107-06-2	1,2-Dichloroethane	5.09		0.50	0.050
78-87-5	1,2-Dichloropropane	5.71		0.50	0.060
78-93-3	2-Butanone (MEK)	80.4		5.0	0.60
591-78-6	2-Hexanone	90.7		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	87.4		5.0	0.70
67-64-1	Acetone	60.7		5.0	0.90
71-43-2	Benzene	5.69		0.50	0.050
74-97-5	Bromochloromethane	5.71		0.50	0.050
75-27-4	Bromodichloromethane	5.69		0.50	0.050
75-25-2	Bromoform	5.45		1.0	0.30
74-83-9	Bromomethane	4.88		0.50	0.070
75-15-0	Carbon disulfide	5.72		1.0	0.060
56-23-5	Carbon tetrachloride	5.64		0.50	0.070
108-90-7	Chlorobenzene	5.54		0.50	0.060
75-00-3	Chloroethane	4.98		0.50	0.070
67-66-3	Chloroform	5.57		0.50	0.090
74-87-3	Chloromethane	4.95		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	5.78		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	5.45		0.50	0.050
124-48-1	Dibromochloromethane	5.46		0.50	0.070
100-41-4	Ethylbenzene	5.62		0.50	0.060
1634-04-4	Methyl tert-butyl ether	5.34		0.50	0.050
75-09-2	Methylene Chloride	5.67		0.50	0.070
100-42-5	Styrene	5.64		0.50	0.050
127-18-4	Tetrachloroethene	5.66		0.50	0.060
108-88-3	Toluene	5.54		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	5.62		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	5.51		0.50	0.060
79-01-6	Trichloroethene	5.63		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-200572/4

Matrix: Water Lab File ID: ID02X03.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 12/02/2021 11:05

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 200572 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	4.91		0.50	0.10
1330-20-7	Xylenes, Total	16.8		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 02-Dec-2021 11:05:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045241-004
Misc. Info.: LCS
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 02-Dec-2021 15:25:14 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1637

First Level Reviewer: kephartk Date: 02-Dec-2021 15:21:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.959	1.965	-0.006	99	337992	5.00	4.44	
4 Chloromethane	50	2.160	2.166	-0.006	99	429049	5.00	4.95	
6 Butadiene	39	2.276	2.276	0.000	90	491273	5.00	6.17	
5 Vinyl chloride	62	2.276	2.282	-0.006	98	428917	5.00	4.91	
7 Bromomethane	94	2.605	2.611	-0.006	90	308770	5.00	4.88	
8 Chloroethane	64	2.684	2.690	-0.006	100	260781	5.00	4.98	
9 Dichlorofluoromethane	67	2.916	2.922	-0.006	97	657169	5.00	5.22	
10 Trichlorofluoromethane	101	2.995	2.995	0.000	98	548259	5.00	4.87	
11 Ethyl ether	59	3.227	3.227	0.000	89	265016	4.97	5.80	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.318	3.318	0.000	92	446383	5.00	5.54	
13 Acrolein	56	3.398	3.404	-0.006	100	263375	37.6	44.6	
14 1,1-Dichloroethene	96	3.538	3.538	0.000	98	348434	5.00	6.00	
15 Acetone	43	3.568	3.574	-0.006	85	455714	62.5	60.7	
16 112TCTFE	101	3.580	3.580	0.000	91	324172	5.00	5.35	
17 Iodomethane	142	3.733	3.739	-0.006	99	638867	5.00	5.51	
18 Ethyl bromide	108	3.763	3.763	0.000	99	307089	5.07	5.81	
19 Carbon disulfide	76	3.836	3.842	-0.006	99	915919	5.00	5.72	
21 Methyl acetate	43	3.983	3.983	0.000	97	126088	5.00	5.70	
22 3-Chloro-1-propene	41	4.007	4.013	-0.006	92	498252	5.00	5.23	
23 Methylene Chloride	84	4.190	4.202	-0.012	89	358900	5.00	5.67	
* 24 t-Butyl alcohol-d10 (IS)	65	4.233	4.288	-0.055	97	135211	50.0	50.0	
25 2-Methyl-2-propanol	59	4.361	4.397	-0.036	99	129396	50.0	45.5	
26 Acrylonitrile	53	4.538	4.531	0.007	97	320492	25.0	32.0	
27 Methyl tert-butyl ether	73	4.605	4.605	0.000	89	883551	5.00	5.34	
28 trans-1,2-Dichloroethene	96	4.611	4.617	-0.006	99	370322	5.00	5.62	
29 Hexane	57	5.037	5.043	-0.006	90	436100	5.00	4.74	
31 1,1-Dichloroethane	63	5.269	5.275	-0.006	96	652066	5.00	5.45	
32 Isopropyl ether	45	5.330	5.330	0.000	93	1060886	5.00	5.31	
33 2-Chloro-1,3-butadiene	53	5.385	5.385	0.000	90	558181	5.00	5.60	
34 Tert-butyl ethyl ether	59	5.867	5.873	-0.006	96	1010522	5.00	5.17	
36 2-Butanone (MEK)	43	6.074	6.080	-0.006	99	1055016	62.5	80.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 cis-1,2-Dichloroethene	96	6.104	6.110	-0.006	81	424277	5.00	5.78	
38 2,2-Dichloropropane	77	6.123	6.129	-0.006	86	583879	5.00	5.61	
40 Propionitrile	54	6.165	6.177	-0.012	96	158862	37.5	45.6	
42 Methacrylonitrile	67	6.373	6.372	0.001	92	689085	37.5	52.3	
43 Chlorobromomethane	128	6.440	6.440	0.000	91	181007	5.00	5.71	
44 Tetrahydrofuran	71	6.452	6.452	0.000	77	124782	25.0	32.1	
45 Chloroform	83	6.586	6.592	-0.006	93	659672	5.00	5.57	
$ 46 Dibromofluoromethane (Surr)	113	6.799	6.805	-0.006	94	613460	10.0	10.0	
47 1,1,1-Trichloroethane	97	6.818	6.818	0.000	98	615453	5.00	5.59	
48 Cyclohexane	56	6.915	6.921	-0.006	89	573299	5.00	5.25	
51 1,1-Dichloropropene	75	7.025	7.031	-0.006	97	537501	5.00	5.79	
50 Carbon tetrachloride	117	7.031	7.031	0.000	84	535683	5.00	5.64	
52 Isobutyl alcohol	41	7.183	7.214	-0.031	96	109950	125.0	121.0	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.257	7.263	-0.007	96	123539	10.0	10.1	
54 Benzene	78	7.293	7.293	0.000	97	1554201	5.00	5.69	
56 1,2-Dichloroethane	62	7.360	7.366	-0.006	98	376676	5.00	5.09	
57 Tert-amyl methyl ether	73	7.482	7.482	0.000	99	896724	5.00	4.94	
* 58 Fluorobenzene (IS)	96	7.689	7.695	-0.006	98	2431312	10.0	10.0	
59 n-Heptane	43	7.708	7.708	0.000	89	421442	5.00	4.45	
60 n-Butanol	56	8.080	8.086	-0.006	86	209618	250.0	248.6	
61 Trichloroethene	95	8.171	8.177	-0.006	97	413781	5.00	5.63	
62 Methylcyclohexane	83	8.482	8.488	-0.006	92	630649	5.00	5.16	
63 1,2-Dichloropropane	63	8.506	8.506	0.000	86	383662	5.00	5.71	
64 Methyl methacrylate	69	8.586	8.585	0.001	88	184344	5.00	7.12	
66 Dibromomethane	93	8.616	8.616	0.000	94	181892	5.00	5.54	
65 1,4-Dioxane	88	8.628	8.634	-0.006	28	23699	125.0	97.6	
68 Dichlorobromomethane	83	8.854	8.854	0.000	99	463093	5.00	5.69	
69 2-Nitropropane	41	9.116	9.116	0.000	99	46257	5.00	6.24	
72 1-Bromo-2-chloroethane	63	9.244	9.244	0.000	99	388424	5.00	5.90	
73 cis-1,3-Dichloropropene	75	9.402	9.396	0.006	97	557297	5.00	5.45	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	95	2886805	62.5	87.4	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2546543	10.0	10.2	
76 Toluene	92	9.787	9.786	0.000	98	1024738	5.00	5.54	
78 trans-1,3-Dichloropropene	75	10.043	10.042	0.001	91	469761	5.00	5.51	
79 Ethyl methacrylate	69	10.097	10.103	-0.006	88	376358	5.00	5.29	
80 1,1,2-Trichloroethane	97	10.244	10.244	0.000	90	286031	5.00	5.80	
81 Tetrachloroethene	166	10.335	10.335	0.000	98	499302	5.00	5.66	
82 1,3-Dichloropropane	76	10.408	10.408	0.000	87	468969	5.00	5.59	
83 2-Hexanone	43	10.457	10.457	0.000	95	2098547	62.5	90.7	
85 Chlorodibromomethane	129	10.622	10.622	0.000	90	328282	5.00	5.46	
86 Ethylene Dibromide	107	10.731	10.737	-0.006	99	262338	5.00	5.51	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	1930120	10.0	10.0	
88 1-Chlorohexane	91	11.170	11.170	0.000	95	582506	5.00	5.38	
90 Chlorobenzene	112	11.189	11.189	0.000	96	1136353	5.00	5.54	
91 1,1,1,2-Tetrachloroethane	131	11.274	11.274	0.000	95	397105	5.00	5.55	
92 Ethylbenzene	91	11.274	11.274	0.000	98	2003866	5.00	5.62	
93 m-Xylene & p-Xylene	106	11.390	11.390	0.000	100	1575911	10.0	11.2	
94 o-Xylene	106	11.719	11.719	0.000	96	775269	5.00	5.58	
95 Styrene	104	11.737	11.731	0.006	95	1263722	5.00	5.64	
96 Bromoform	173	11.896	11.896	0.000	98	196463	5.00	5.45	
97 Isopropylbenzene	105	12.018	12.018	0.000	95	2106983	5.00	5.75	
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	93	965794	10.0	10.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 1,1,2,2-Tetrachloroethane	83	12.262	12.262	0.000	94	349761	5.00	5.62	
102 Bromobenzene	156	12.280	12.280	0.000	94	488372	5.00	5.73	
103 trans-1,4-Dichloro-2-butene	53	12.286	12.286	0.000	91	336051	25.0	28.1	
104 1,2,3-Trichloropropane	110	12.310	12.310	0.000	83	97951	5.00	5.73	
105 N-Propylbenzene	91	12.347	12.347	0.000	99	2386417	5.00	5.77	
106 2-Chlorotoluene	126	12.426	12.426	0.000	97	472286	5.00	5.56	
107 1,3,5-Trimethylbenzene	105	12.481	12.481	0.000	94	1714850	5.00	5.67	
108 4-Chlorotoluene	126	12.518	12.518	0.000	97	480922	5.00	5.55	
109 tert-Butylbenzene	134	12.725	12.725	0.000	92	383746	5.00	5.79	
110 Pentachloroethane	167	12.755	12.755	0.000	92	273070	5.00	5.10	
111 1,2,4-Trimethylbenzene	105	12.768	12.768	0.000	96	1728197	5.00	5.58	
112 sec-Butylbenzene	105	12.883	12.889	-0.006	94	2229071	5.00	5.84	
113 1,3-Dichlorobenzene	146	12.987	12.987	0.000	98	942508	5.00	5.48	
114 4-Isopropyltoluene	119	12.993	12.993	0.000	97	1939600	5.00	5.74	
* 115 1,4-Dichlorobenzene-d4	152	13.042	13.042	0.000	93	1125189	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.060	13.060	0.000	95	964377	5.00	5.49	
117 1,2,3-Trimethylbenzene	120	13.066	13.066	0.000	98	746943	5.00	5.45	
118 Benzyl chloride	126	13.133	13.133	0.000	98	143429	5.00	5.64	
119 n-Butylbenzene	92	13.286	13.286	0.000	97	894411	5.00	5.67	
120 1,2-Dichlorobenzene	146	13.316	13.316	0.000	99	870532	5.00	5.54	
122 1,2-Dibromo-3-Chloropropane	155	13.859	13.859	0.000	89	51039	5.00	5.58	
123 1,3,5-Trichlorobenzene	180	13.987	13.987	0.000	98	706408	5.00	5.62	
124 1,2,4-Trichlorobenzene	180	14.408	14.407	0.001	94	605088	5.00	5.70	
125 Hexachlorobutadiene	225	14.487	14.493	-0.006	95	240919	5.00	5.22	
126 Naphthalene	128	14.590	14.590	0.000	96	1153797	5.00	5.70	
127 1,2,3-Trichlorobenzene	180	14.731	14.731	0.000	95	524335	5.00	5.72	
134 Isopropyl alcohol	45		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
137 2-Methylnaphthalene	142		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MSV_LCS_EE_00001	Amount Added:	12.50	Units: uL	
MSV_Q_ETBR_00009	Amount Added:	12.50	Units: uL	
MSV_LCS_Penta_00009	Amount Added:	12.50	Units: uL	
MSV_LCS_VOC#1_00029	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00032	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00052	Amount Added:	12.50	Units: uL	
MSV_LLcentISS_00002	Amount Added:	5.00	Units: uL	Run Reagent

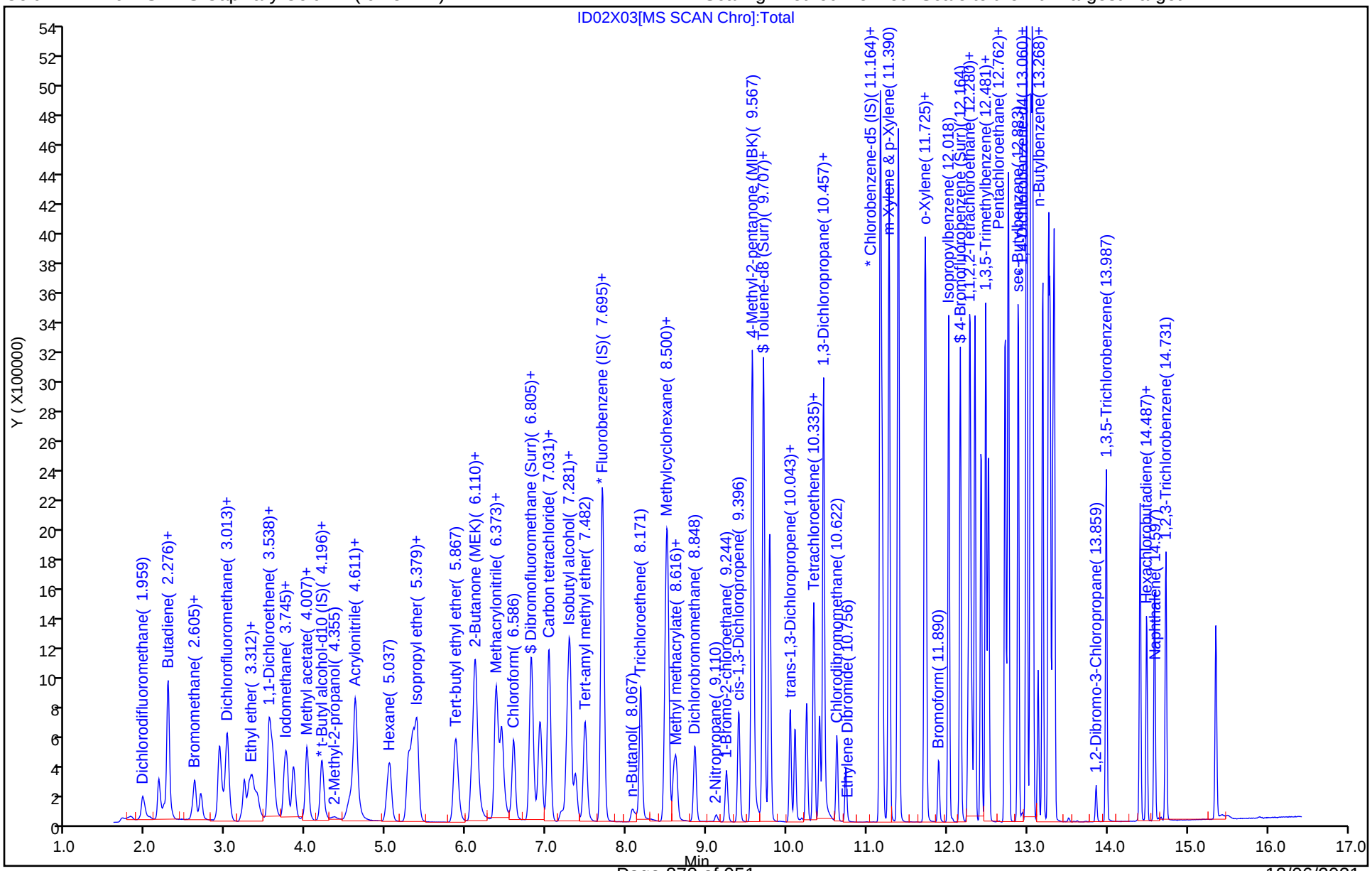
Report Date: 02-Dec-2021 15:25:21 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X03.D

Injection Date:	02-Dec-2021 11:05:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 02-Dec-2021 11:05:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045241-004
Misc. Info.: LCS
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 02-Dec-2021 15:25:14 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1637

First Level Reviewer: kephartk Date: 02-Dec-2021 15:21:53

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.0	100.16
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	100.83
$ 75 Toluene-d8 (Surr)	10.0	10.2	102.09
$ 100 4-Bromofluorobenzene (Surr)	10.0	10.1	101.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-201082/5

Matrix: Water Lab File ID: ID03X04.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 12/03/2021 10:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201082 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.37		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.57		0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	5.57		0.50	0.070
79-00-5	1,1,2-Trichloroethane	5.58		0.50	0.060
75-34-3	1,1-Dichloroethane	5.50		0.50	0.070
75-35-4	1,1-Dichloroethene	5.99		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	5.47		0.50	0.060
107-06-2	1,2-Dichloroethane	5.27		0.50	0.050
78-87-5	1,2-Dichloropropane	5.80		0.50	0.060
78-93-3	2-Butanone (MEK)	64.2		5.0	0.60
591-78-6	2-Hexanone	66.1		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	63.6		5.0	0.70
67-64-1	Acetone	56.3		5.0	0.90
71-43-2	Benzene	5.73		0.50	0.050
74-97-5	Bromochloromethane	5.91		0.50	0.050
75-27-4	Bromodichloromethane	5.75		0.50	0.050
75-25-2	Bromoform	5.41		1.0	0.30
74-83-9	Bromomethane	4.62		0.50	0.070
75-15-0	Carbon disulfide	5.65		1.0	0.060
56-23-5	Carbon tetrachloride	5.53		0.50	0.070
108-90-7	Chlorobenzene	5.38		0.50	0.060
75-00-3	Chloroethane	4.71		0.50	0.070
67-66-3	Chloroform	5.62		0.50	0.090
74-87-3	Chloromethane	4.72		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	5.85		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	5.55		0.50	0.050
124-48-1	Dibromochloromethane	5.37		0.50	0.070
100-41-4	Ethylbenzene	5.43		0.50	0.060
1634-04-4	Methyl tert-butyl ether	5.55		0.50	0.050
75-09-2	Methylene Chloride	5.75		0.50	0.070
100-42-5	Styrene	5.39		0.50	0.050
127-18-4	Tetrachloroethene	5.47		0.50	0.060
108-88-3	Toluene	5.44		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	5.64		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	5.45		0.50	0.060
79-01-6	Trichloroethene	5.63		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-201082/5

Matrix: Water Lab File ID: ID03X04.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 12/03/2021 10:31

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201082 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	4.66		0.50	0.10
1330-20-7	Xylenes, Total	16.2		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X04.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 03-Dec-2021 10:31:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045448-005
Misc. Info.: LCS
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 03-Dec-2021 12:34:59 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1629

First Level Reviewer: kephartk Date: 03-Dec-2021 10:57:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.946	1.971	-0.025	99	299658	5.00	4.07	
4 Chloromethane	50	2.154	2.172	-0.018	99	395251	5.00	4.72	
6 Butadiene	39	2.269	2.282	-0.013	91	406329	5.00	5.28	
5 Vinyl chloride	62	2.269	2.288	-0.019	98	393760	5.00	4.66	
7 Bromomethane	94	2.599	2.617	-0.018	91	282695	5.00	4.62	
8 Chloroethane	64	2.678	2.690	-0.012	100	238540	5.00	4.71	
9 Dichlorofluoromethane	67	2.916	2.928	-0.012	97	612973	5.00	5.03	
10 Trichlorofluoromethane	101	2.989	3.001	-0.012	97	503073	5.00	4.62	
11 Ethyl ether	59	3.220	3.233	-0.013	89	260945	4.97	5.90	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.294	3.324	-0.030	91	414268	5.00	5.31	
13 Acrolein	56	3.391	3.404	-0.013	98	298951	37.6	37.5	
14 1,1-Dichloroethene	96	3.531	3.544	-0.013	98	336076	5.00	5.99	
15 Acetone	43	3.550	3.568	-0.018	99	570792	62.5	56.3	
16 112TCTFE	101	3.574	3.587	-0.013	91	300791	5.00	5.13	
17 Iodomethane	142	3.726	3.739	-0.013	99	621440	5.00	5.54	
18 Ethyl bromide	108	3.757	3.769	-0.012	98	289588	5.07	5.66	
19 Carbon disulfide	76	3.830	3.849	-0.019	99	875428	5.00	5.65	
21 Methyl acetate	43	3.976	3.989	-0.013	97	133913	5.00	4.49	
22 3-Chloro-1-propene	41	4.007	4.013	-0.006	91	486985	5.00	5.29	
23 Methylene Chloride	84	4.196	4.202	-0.006	90	352107	5.00	5.75	
* 24 t-Butyl alcohol-d10 (IS)	65	4.190	4.208	-0.018	95	182481	50.0	50.0	M
25 2-Methyl-2-propanol	59	4.300	4.330	-0.030	97	200630	50.0	52.2	M
26 Acrylonitrile	53	4.525	4.531	-0.006	99	346294	25.0	25.6	
27 Methyl tert-butyl ether	73	4.592	4.605	-0.013	94	887742	5.00	5.55	
28 trans-1,2-Dichloroethene	96	4.604	4.623	-0.019	99	359300	5.00	5.64	
29 Hexane	57	5.031	5.044	-0.013	90	401530	5.00	4.51	
31 1,1-Dichloroethane	63	5.269	5.281	-0.012	96	636040	5.00	5.50	
32 Isopropyl ether	45	5.324	5.336	-0.012	93	1035518	5.00	5.36	
33 2-Chloro-1,3-butadiene	53	5.379	5.391	-0.012	90	525917	5.00	5.45	
34 Tert-butyl ethyl ether	59	5.860	5.873	-0.013	97	985669	5.00	5.22	
36 2-Butanone (MEK)	43	6.055	6.068	-0.013	99	1136775	62.5	64.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 cis-1,2-Dichloroethene	96	6.104	6.110	-0.006	81	415637	5.00	5.85	
38 2,2-Dichloropropane	77	6.122	6.129	-0.007	87	562713	5.00	5.60	
40 Propionitrile	54	6.147	6.159	-0.012	98	192044	37.5	40.8	
42 Methacrylonitrile	67	6.360	6.373	-0.013	90	707790	37.5	39.8	
43 Chlorobromomethane	128	6.439	6.446	-0.007	90	181256	5.00	5.91	
44 Tetrahydrofuran	71	6.445	6.452	-0.007	78	141191	25.0	26.9	
45 Chloroform	83	6.586	6.592	-0.006	93	643964	5.00	5.62	
$ 46 Dibromofluoromethane (Surr)	113	6.799	6.805	-0.006	94	608565	10.0	10.3	
47 1,1,1-Trichloroethane	97	6.811	6.824	-0.013	98	593183	5.00	5.57	
48 Cyclohexane	56	6.915	6.921	-0.006	88	531745	5.00	5.04	
51 1,1-Dichloropropene	75	7.025	7.037	-0.012	97	517513	5.00	5.76	
50 Carbon tetrachloride	117	7.031	7.037	-0.006	96	508291	5.00	5.53	
52 Isobutyl alcohol	41	7.171	7.171	0.000	94	157778	125.0	128.7	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.256	7.257	-0.001	94	122622	10.0	10.3	
54 Benzene	78	7.287	7.293	-0.006	96	1513972	5.00	5.73	
56 1,2-Dichloroethane	62	7.360	7.366	-0.006	97	377579	5.00	5.27	
57 Tert-amyl methyl ether	73	7.482	7.482	0.000	99	868221	5.00	4.95	
* 58 Fluorobenzene (IS)	96	7.689	7.695	-0.006	99	2351440	10.0	10.0	
59 n-Heptane	43	7.707	7.708	-0.001	89	390483	5.00	4.27	
60 n-Butanol	56	8.055	8.055	0.000	87	318406	250.0	279.8	
61 Trichloroethene	95	8.171	8.177	-0.006	98	400292	5.00	5.63	
62 Methylcyclohexane	83	8.488	8.488	0.000	92	581458	5.00	4.92	
63 1,2-Dichloropropane	63	8.506	8.506	0.000	94	376394	5.00	5.80	
64 Methyl methacrylate	69	8.585	8.586	-0.001	90	180202	5.00	5.16	
65 1,4-Dioxane	88	8.597	8.604	-0.007	33	40986	125.0	119.9	
66 Dibromomethane	93	8.616	8.622	-0.006	94	184005	5.00	5.80	
68 Dichlorobromomethane	83	8.847	8.854	-0.007	99	452527	5.00	5.75	
69 2-Nitropropane	41	9.110	9.116	-0.006	99	44361	5.00	4.44	
72 1-Bromo-2-chloroethane	63	9.244	9.250	-0.006	99	378196	5.00	5.94	
73 cis-1,3-Dichloropropene	75	9.396	9.402	-0.006	97	548940	5.00	5.55	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	95	2832764	62.5	63.6	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2483929	10.0	10.0	
76 Toluene	92	9.786	9.787	-0.001	99	999044	5.00	5.44	
78 trans-1,3-Dichloropropene	75	10.042	10.043	-0.001	91	461332	5.00	5.45	
79 Ethyl methacrylate	69	10.097	10.104	-0.007	87	373893	5.00	5.29	
80 1,1,2-Trichloroethane	97	10.243	10.250	-0.007	91	272995	5.00	5.58	
81 Tetrachloroethene	166	10.335	10.335	0.000	98	477800	5.00	5.47	
82 1,3-Dichloropropane	76	10.408	10.408	0.000	88	453794	5.00	5.45	
83 2-Hexanone	43	10.457	10.457	0.000	95	2062728	62.5	66.1	
85 Chlorodibromomethane	129	10.621	10.628	-0.007	90	320056	5.00	5.37	
86 Ethylene Dibromide	107	10.737	10.738	-0.001	98	258371	5.00	5.47	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	1914192	10.0	10.0	
88 1-Chlorohexane	91	11.170	11.177	-0.007	96	540354	5.00	5.04	
90 Chlorobenzene	112	11.195	11.195	0.000	97	1092940	5.00	5.38	
91 1,1,1,2-Tetrachloroethane	131	11.274	11.274	0.000	94	380857	5.00	5.37	
92 Ethylbenzene	91	11.274	11.280	-0.006	98	1919561	5.00	5.43	
93 m-Xylene & p-Xylene	106	11.390	11.390	0.000	100	1518761	10.0	10.9	
94 o-Xylene	106	11.719	11.719	0.000	96	735134	5.00	5.34	
95 Styrene	104	11.737	11.737	0.000	94	1197728	5.00	5.39	
96 Bromoform	173	11.896	11.896	0.000	98	193337	5.00	5.41	
97 Isopropylbenzene	105	12.018	12.024	-0.006	95	1989653	5.00	5.47	
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	94	934923	10.0	9.89	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 1,1,2,2-Tetrachloroethane	83	12.261	12.262	-0.001	94	338151	5.00	5.57	
102 Bromobenzene	156	12.280	12.280	0.000	95	463555	5.00	5.57	
103 trans-1,4-Dichloro-2-butene	53	12.286	12.286	0.000	88	354567	25.0	22.0	
104 1,2,3-Trichloropropane	110	12.310	12.310	0.000	83	92554	5.00	5.55	
105 N-Propylbenzene	91	12.347	12.347	0.000	99	2262362	5.00	5.60	
106 2-Chlorotoluene	126	12.426	12.426	0.000	97	452204	5.00	5.46	
107 1,3,5-Trimethylbenzene	105	12.481	12.481	0.000	94	1626788	5.00	5.52	
108 4-Chlorotoluene	126	12.517	12.518	-0.001	97	466428	5.00	5.51	
109 tert-Butylbenzene	134	12.725	12.725	0.000	92	354072	5.00	5.48	
110 Pentachloroethane	167	12.755	12.762	-0.007	90	264180	5.00	5.06	
111 1,2,4-Trimethylbenzene	105	12.767	12.768	-0.001	97	1637784	5.00	5.42	
112 sec-Butylbenzene	105	12.889	12.890	-0.001	94	2096525	5.00	5.63	
113 1,3-Dichlorobenzene	146	12.987	12.987	0.000	98	891908	5.00	5.32	
114 4-Isopropyltoluene	119	12.993	12.993	0.000	98	1804901	5.00	5.48	
* 115 1,4-Dichlorobenzene-d4	152	13.042	13.042	0.000	94	1097754	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.060	13.060	0.000	95	901966	5.00	5.26	
117 1,2,3-Trimethylbenzene	120	13.072	13.072	0.000	98	709684	5.00	5.31	
118 Benzyl chloride	126	13.139	13.140	-0.001	98	132212	5.00	5.32	
119 n-Butylbenzene	92	13.286	13.286	0.000	97	827157	5.00	5.37	
120 1,2-Dichlorobenzene	146	13.322	13.322	0.000	99	824022	5.00	5.38	
122 1,2-Dibromo-3-Chloropropane	155	13.859	13.859	0.000	89	47779	5.00	5.35	
123 1,3,5-Trichlorobenzene	180	13.987	13.987	0.000	98	651399	5.00	5.31	
124 1,2,4-Trichlorobenzene	180	14.407	14.408	-0.001	95	554422	5.00	5.35	
125 Hexachlorobutadiene	225	14.493	14.493	0.000	95	219303	5.00	4.87	
126 Naphthalene	128	14.590	14.590	0.000	96	1044647	5.00	5.29	
127 1,2,3-Trichlorobenzene	180	14.730	14.731	-0.001	96	473578	5.00	5.29	
134 Isopropyl alcohol	45		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
137 2-Methylnaphthalene	142		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_EE_00001	Amount Added:	12.50	Units: uL	
MSV_Q_ETBR_00009	Amount Added:	12.50	Units: uL	
MSV_LCS_Penta_00009	Amount Added:	12.50	Units: uL	
MSV_LCS_VOC#1_00029	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00032	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00052	Amount Added:	12.50	Units: uL	
MSV_LLcentISS_00002	Amount Added:	5.00	Units: uL	Run Reagent

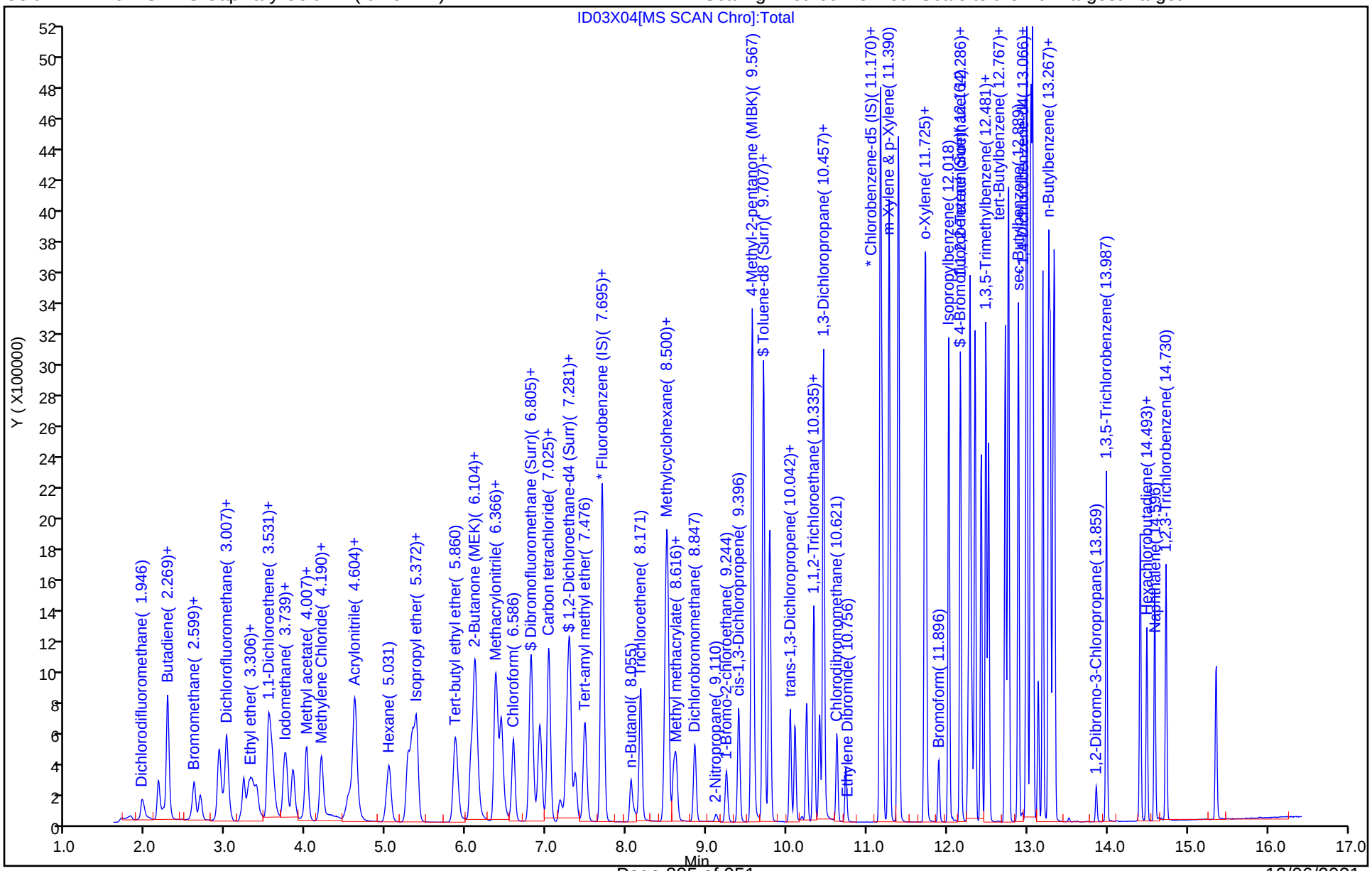
Report Date: 03-Dec-2021 12:35:03 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X04.D

Injection Date:	03-Dec-2021 10:31:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X04.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	03-Dec-2021 10:31:30	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0045448-005				
Misc. Info.:	LCS				
Operator ID:	KNK41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	03-Dec-2021 12:34:59	Calib Date:	24-Aug-2021 02:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1629				
First Level Reviewer: kephartk		Date:	03-Dec-2021 10:57:27		

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.3	102.74
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.48
$ 75 Toluene-d8 (Surr)	10.0	10.0	100.41
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.89	98.89

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

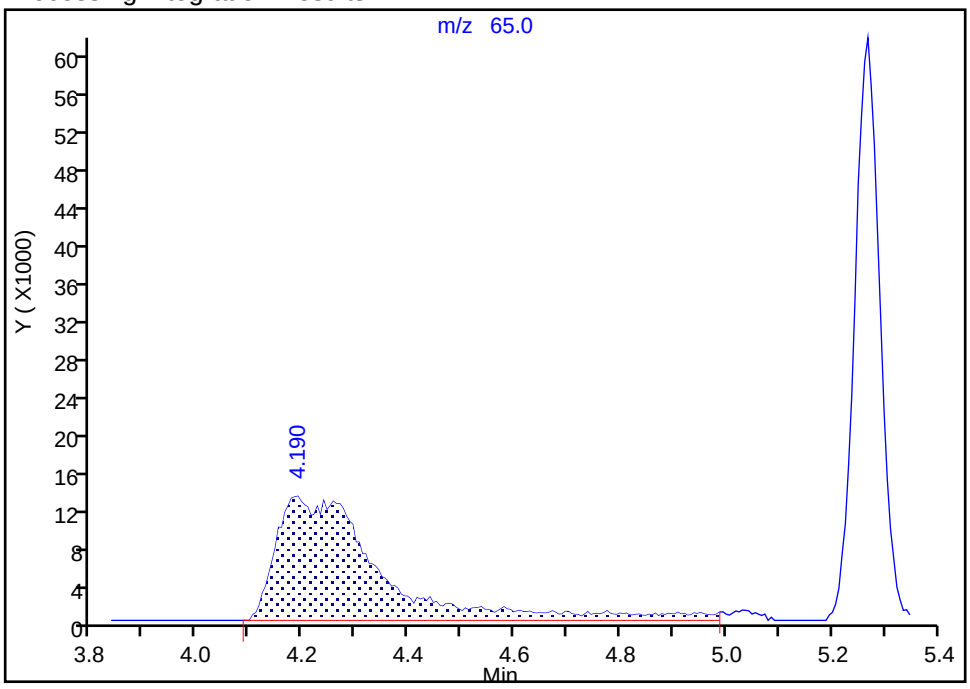
Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X04.D
Injection Date: 03-Dec-2021 10:31:30 Instrument ID: 19930
Lims ID: LCS
Client ID:
Operator ID: KNK41612 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 24 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

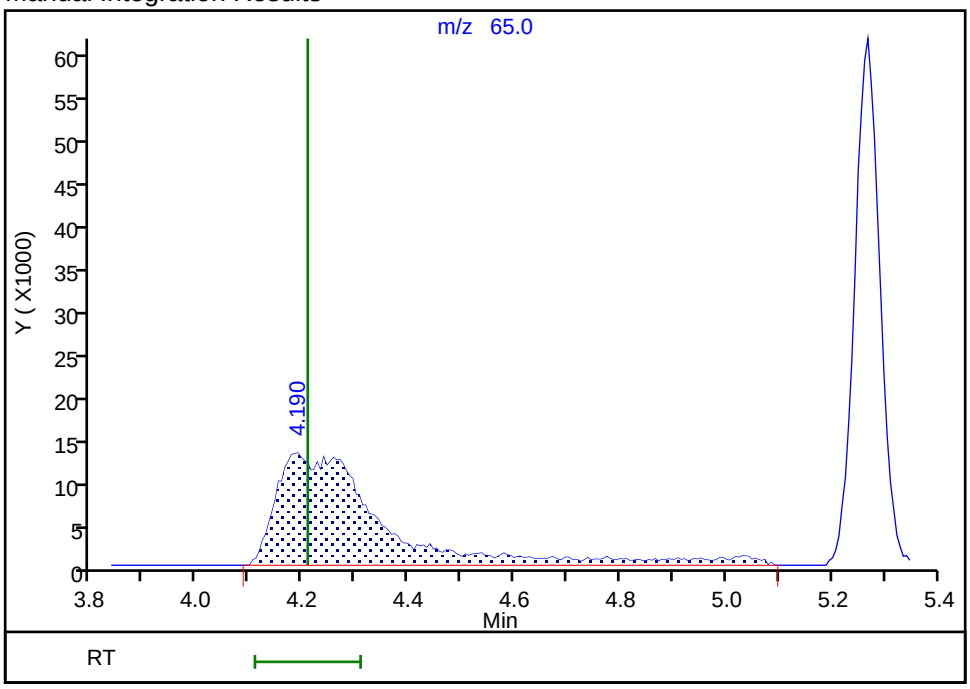
Processing Integration Results

RT: 4.19
Area: 178259
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.19
Area: 182481
Amount: 50.000000
Amount Units: ug/l



Reviewer: kephartk, 03-Dec-2021 11:02:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-201490/4

Matrix: Water Lab File ID: GD04X03.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 12/04/2021 10:22

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201490 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.73		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.69		0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	5.08		0.50	0.070
79-00-5	1,1,2-Trichloroethane	4.80		0.50	0.060
75-34-3	1,1-Dichloroethane	4.26		0.50	0.070
75-35-4	1,1-Dichloroethene	4.61		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	4.73		0.50	0.060
107-06-2	1,2-Dichloroethane	4.54		0.50	0.050
78-87-5	1,2-Dichloropropane	4.35		0.50	0.060
78-93-3	2-Butanone (MEK)	55.8		5.0	0.60
591-78-6	2-Hexanone	57.9		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	54.4		5.0	0.70
67-64-1	Acetone	48.6		5.0	0.90
71-43-2	Benzene	4.54		0.50	0.050
74-97-5	Bromochloromethane	4.62		0.50	0.050
75-27-4	Bromodichloromethane	4.64		0.50	0.050
75-25-2	Bromoform	4.19		1.0	0.30
74-83-9	Bromomethane	4.55		0.50	0.070
75-15-0	Carbon disulfide	4.53		1.0	0.060
56-23-5	Carbon tetrachloride	4.61		0.50	0.070
108-90-7	Chlorobenzene	4.69		0.50	0.060
75-00-3	Chloroethane	4.50		0.50	0.070
67-66-3	Chloroform	4.67		0.50	0.090
74-87-3	Chloromethane	4.65		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	4.68		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	4.39		0.50	0.050
124-48-1	Dibromochloromethane	4.55		0.50	0.070
100-41-4	Ethylbenzene	4.68		0.50	0.060
1634-04-4	Methyl tert-butyl ether	4.58		0.50	0.050
75-09-2	Methylene Chloride	4.56		0.50	0.070
100-42-5	Styrene	4.80		0.50	0.050
127-18-4	Tetrachloroethene	4.36		0.50	0.060
108-88-3	Toluene	4.65		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	4.63		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	4.81		0.50	0.060
79-01-6	Trichloroethene	4.63		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-201490/4

Matrix: Water Lab File ID: GD04X03.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 12/04/2021 10:22

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201490 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	4.38		0.50	0.10
1330-20-7	Xylenes, Total	14.1		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		80-120
460-00-4	4-Bromofluorobenzene (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 04-Dec-2021 10:22:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045539-004
Misc. Info.: LCS
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 04-Dec-2021 12:24:17 Calib Date: 27-Jul-2021 21:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1614

First Level Reviewer: kephartk Date: 04-Dec-2021 11:12:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.940	1.941	-0.001	98	230031	5.00	4.05	
5 Chloromethane	50	2.142	2.142	0.000	99	329429	5.00	4.65	
7 Butadiene	39	2.257	2.258	-0.001	90	305809	5.00	4.05	
8 Vinyl chloride	62	2.251	2.258	-0.007	97	301557	5.00	4.38	
9 Bromomethane	94	2.587	2.587	0.000	91	223893	5.00	4.55	
10 Chloroethane	64	2.660	2.660	0.000	100	184656	5.00	4.50	
12 Dichlorofluoromethane	67	2.904	2.904	0.000	97	474113	5.00	4.97	
13 Trichlorofluoromethane	101	2.971	2.971	0.000	97	403626	5.00	4.57	M
15 Ethyl ether	59	3.202	3.202	0.000	89	215935	4.97	4.83	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.306	3.306	0.000	91	301089	5.00	4.59	
18 Acrolein	56	3.379	3.379	0.000	99	233621	37.6	33.7	
19 1,1-Dichloroethene	96	3.501	3.507	-0.006	97	218553	5.00	4.61	
20 112TCTFE	101	3.550	3.550	0.000	91	210090	5.00	4.08	
21 Acetone	43	3.532	3.562	-0.030	99	412338	62.5	48.6	
23 Iodomethane	142	3.696	3.696	0.000	100	394486	5.00	4.39	
24 Ethyl bromide	108	3.727	3.727	0.000	98	206621	5.07	4.90	
22 Isopropyl alcohol	45	3.800	3.776	0.024	26	54094	37.5	40.4	
25 Carbon disulfide	76	3.800	3.800	0.000	99	743823	5.00	4.53	
27 Methyl acetate	43	3.946	3.946	0.000	97	149113	5.00	5.76	M
28 3-Chloro-1-propene	41	3.983	3.983	0.000	92	313969	5.00	3.87	
29 Methylene Chloride	84	4.172	4.166	0.006	89	247882	5.00	4.56	
* 30 t-Butyl alcohol-d10 (IS)	65	4.202	4.245	-0.043	70	163697	50.0	50.0	
31 2-Methyl-2-propanol	59	4.355	4.361	-0.006	98	116432	50.0	41.5	
32 Acrylonitrile	53	4.507	4.525	-0.018	99	247012	25.0	20.9	
33 Methyl tert-butyl ether	73	4.574	4.568	0.006	94	629074	5.00	4.58	
34 trans-1,2-Dichloroethene	96	4.574	4.580	-0.006	97	245953	5.00	4.63	
35 Hexane	57	5.007	5.007	0.000	92	255401	5.00	3.33	
37 1,1-Dichloroethane	63	5.245	5.245	0.000	96	397521	5.00	4.26	
38 Isopropyl ether	45	5.300	5.312	-0.012	95	704525	5.00	4.09	
39 2-Chloro-1,3-butadiene	53	5.354	5.354	0.000	90	334269	5.00	4.37	
40 Tert-butyl ethyl ether	59	5.842	5.842	0.000	98	724937	5.00	4.62	

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	6.049	6.049	0.000	99	907596	62.5	55.8	
42 cis-1,2-Dichloroethene	96	6.080	6.080	0.000	79	276643	5.00	4.68	
43 2,2-Dichloropropane	77	6.092	6.092	0.000	76	367080	5.00	5.31	
45 Propionitrile	54	6.153	6.141	0.012	98	135112	37.5	32.3	
48 Methacrylonitrile	67	6.348	6.354	-0.006	90	547357	37.5	34.9	
49 Chlorobromomethane	128	6.409	6.403	0.006	89	126531	5.00	4.62	
50 Tetrahydrofuran	71	6.415	6.409	0.006	84	107743	25.0	23.3	
51 Chloroform	83	6.562	6.568	-0.006	93	433653	5.00	4.67	
$ 52 Dibromofluoromethane (Surr)	113	6.775	6.775	0.000	94	564162	10.0	9.96	
53 1,1,1-Trichloroethane	97	6.781	6.781	0.000	97	375628	5.00	4.69	
54 Cyclohexane	56	6.879	6.885	-0.006	89	335186	5.00	3.59	M
56 Carbon tetrachloride	117	6.988	6.994	-0.006	84	325068	5.00	4.61	
57 1,1-Dichloropropene	75	6.994	6.994	0.000	96	325696	5.00	4.48	
58 Isobutyl alcohol	41	7.183	7.189	-0.006	93	119704	125.0	113.8	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.226	7.226	0.000	90	121172	10.0	9.62	
60 Benzene	78	7.250	7.250	0.000	97	1005344	5.00	4.54	
61 1,2-Dichloroethane	62	7.324	7.324	0.000	98	282549	5.00	4.54	
63 Tert-amyl methyl ether	73	7.452	7.446	0.006	99	680785	5.00	4.61	
* 64 Fluorobenzene (IS)	96	7.659	7.659	0.000	99	2273751	10.0	10.0	
65 n-Heptane	43	7.671	7.671	0.000	86	275628	5.00	3.27	
67 n-Butanol	56	8.073	8.067	0.006	87	263032	250.0	300.0	
68 Trichloroethene	95	8.134	8.134	0.000	98	269956	5.00	4.63	
69 Methylcyclohexane	83	8.445	8.445	0.000	89	367800	5.00	3.68	Ma
70 1,2-Dichloropropane	63	8.470	8.470	0.000	97	248213	5.00	4.35	
71 2-ethoxy-2-methyl butane	87	8.482	8.482	0.000	94	390839	5.00	4.74	
72 Methyl methacrylate	69	8.561	8.555	0.006	88	130260	5.00	4.37	
74 Dibromomethane	93	8.579	8.573	0.006	95	133473	5.00	4.67	
73 1,4-Dioxane	88	8.610	8.610	0.000	28	34129	125.0	218.2	M
76 Dichlorobromomethane	83	8.817	8.817	0.000	99	316211	5.00	4.64	
77 2-Nitropropane	41	9.098	9.098	0.000	98	37486	5.00	4.45	
80 1-Bromo-2-chloroethane	63	9.207	9.207	0.000	99	287310	5.00	4.63	
81 cis-1,3-Dichloropropene	75	9.366	9.366	0.000	97	371644	5.00	4.39	
82 4-Methyl-2-pentanone (MIBK)	43	9.543	9.543	0.000	96	2169914	62.5	54.4	
$ 83 Toluene-d8 (Surr)	98	9.671	9.671	0.000	92	2264822	10.0	9.91	
84 Toluene	92	9.750	9.750	0.000	98	652281	5.00	4.65	
96 trans-1,3-Dichloropropene	75	10.006	10.006	0.000	92	337299	5.00	4.81	
98 Ethyl methacrylate	69	10.073	10.073	0.000	87	279478	5.00	4.62	
99 1,1,2-Trichloroethane	97	10.213	10.213	0.000	90	205222	5.00	4.80	
100 Tetrachloroethene	166	10.292	10.299	-0.007	97	291615	5.00	4.36	
101 1,3-Dichloropropane	76	10.378	10.378	0.000	88	333591	5.00	4.62	
102 2-Hexanone	43	10.433	10.433	0.000	95	1678984	62.5	57.9	
104 Chlorodibromomethane	129	10.585	10.585	0.000	90	234532	5.00	4.55	
105 Ethylene Dibromide	107	10.695	10.695	0.000	98	196439	5.00	4.73	
* 106 Chlorobenzene-d5 (IS)	117	11.128	11.128	0.000	84	1754419	10.0	10.0	
107 1-Chlorohexane	91	11.140	11.140	0.000	95	348377	5.00	4.30	
108 Chlorobenzene	112	11.152	11.152	0.000	96	760716	5.00	4.69	
110 1,1,1,2-Tetrachloroethane	131	11.237	11.237	0.000	96	264169	5.00	4.73	
111 Ethylbenzene	91	11.237	11.237	0.000	98	1269003	5.00	4.68	
112 m-Xylene & p-Xylene	106	11.353	11.353	0.000	100	996880	10.0	9.46	
113 o-Xylene	106	11.682	11.683	-0.001	96	481811	5.00	4.62	
114 Styrene	104	11.695	11.695	0.000	95	844218	5.00	4.80	
115 Bromoform	173	11.853	11.853	0.000	96	138909	5.00	4.19	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 Isopropylbenzene	105	11.981	11.981	0.000	95	1281495	5.00	4.82	
$ 119 4-Bromofluorobenzene (Surr)	95	12.121	12.121	0.000	91	858281	10.0	10.3	
120 1,1,2,2-Tetrachloroethane	83	12.225	12.225	0.000	94	270831	5.00	5.08	
121 Bromobenzene	156	12.237	12.237	0.000	95	332878	5.00	4.91	
122 trans-1,4-Dichloro-2-butene	53	12.249	12.249	0.000	90	188441	25.0	13.0	
123 1,2,3-Trichloropropane	110	12.274	12.274	0.000	83	71395	5.00	4.91	
124 N-Propylbenzene	91	12.310	12.304	0.006	99	1546271	5.00	5.01	
125 2-Chlorotoluene	126	12.384	12.384	0.000	97	312173	5.00	4.97	
126 1,3,5-Trimethylbenzene	105	12.445	12.445	-0.001	94	1098358	5.00	4.97	
127 4-Chlorotoluene	126	12.475	12.475	0.000	97	334310	5.00	5.08	
128 tert-Butylbenzene	134	12.682	12.682	0.000	93	233962	5.00	4.89	
129 Pentachloroethane	167	12.713	12.713	0.000	90	209148	5.00	4.94	
130 1,2,4-Trimethylbenzene	105	12.725	12.725	0.000	97	1155709	5.00	5.05	
131 sec-Butylbenzene	105	12.847	12.847	0.000	94	1428210	5.00	5.06	
132 1,3-Dichlorobenzene	146	12.944	12.944	0.000	98	654660	5.00	4.77	
133 4-Isopropyltoluene	119	12.951	12.951	-0.001	97	1265222	5.00	5.14	
* 134 1,4-Dichlorobenzene-d4	152	12.999	12.999	0.000	93	977408	10.0	10.0	
135 1,4-Dichlorobenzene	146	13.018	13.018	0.000	95	680616	5.00	4.81	
136 1,2,3-Trimethylbenzene	120	13.024	13.024	0.000	99	511654	5.00	4.85	
137 Benzyl chloride	126	13.091	13.091	0.000	98	110184	5.00	5.36	
138 p-Diethylbenzene	119	13.152	13.152	0.000	92	746847	5.00	4.91	
139 n-Butylbenzene	92	13.243	13.243	0.000	97	642894	5.00	4.96	
140 1,2-Dichlorobenzene	146	13.274	13.274	0.000	99	625720	5.00	4.79	
142 1,2-Dibromo-3-Chloropropane	155	13.816	13.810	0.006	87	36374	5.00	4.24	
143 1,3,5-Trichlorobenzene	180	13.938	13.938	0.000	98	530468	5.00	4.64	
144 1,2,4-Trichlorobenzene	180	14.353	14.353	0.000	94	453421	5.00	4.35	
145 Hexachlorobutadiene	225	14.438	14.438	0.000	97	225724	5.00	4.37	
146 Naphthalene	128	14.536	14.536	0.000	97	847787	5.00	4.62	
147 1,2,3-Trichlorobenzene	180	14.676	14.676	0.000	96	413972	5.00	4.45	
148 2-Methylnaphthalene	142	15.285	15.285	0.000	92	488151	5.00	4.26	
160 Pentane	43	2.989	2.989	0.000	97	301951	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MSV_LCS_EE_00001	Amount Added: 12.50	Units: uL	
MSV_Q_ETBR_00008	Amount Added: 12.50	Units: uL	
MSV_LCS_VOC#1_00029	Amount Added: 12.50	Units: uL	
MSV_LCS_ACROL_00032	Amount Added: 12.50	Units: uL	
MSV_LCS_Penta_00009	Amount Added: 12.50	Units: uL	
MSV_QC_Gas826_00052	Amount Added: 12.50	Units: uL	
MSV_29_826ISS_00026	Amount Added: 1.00	Units: uL	Run Reagent

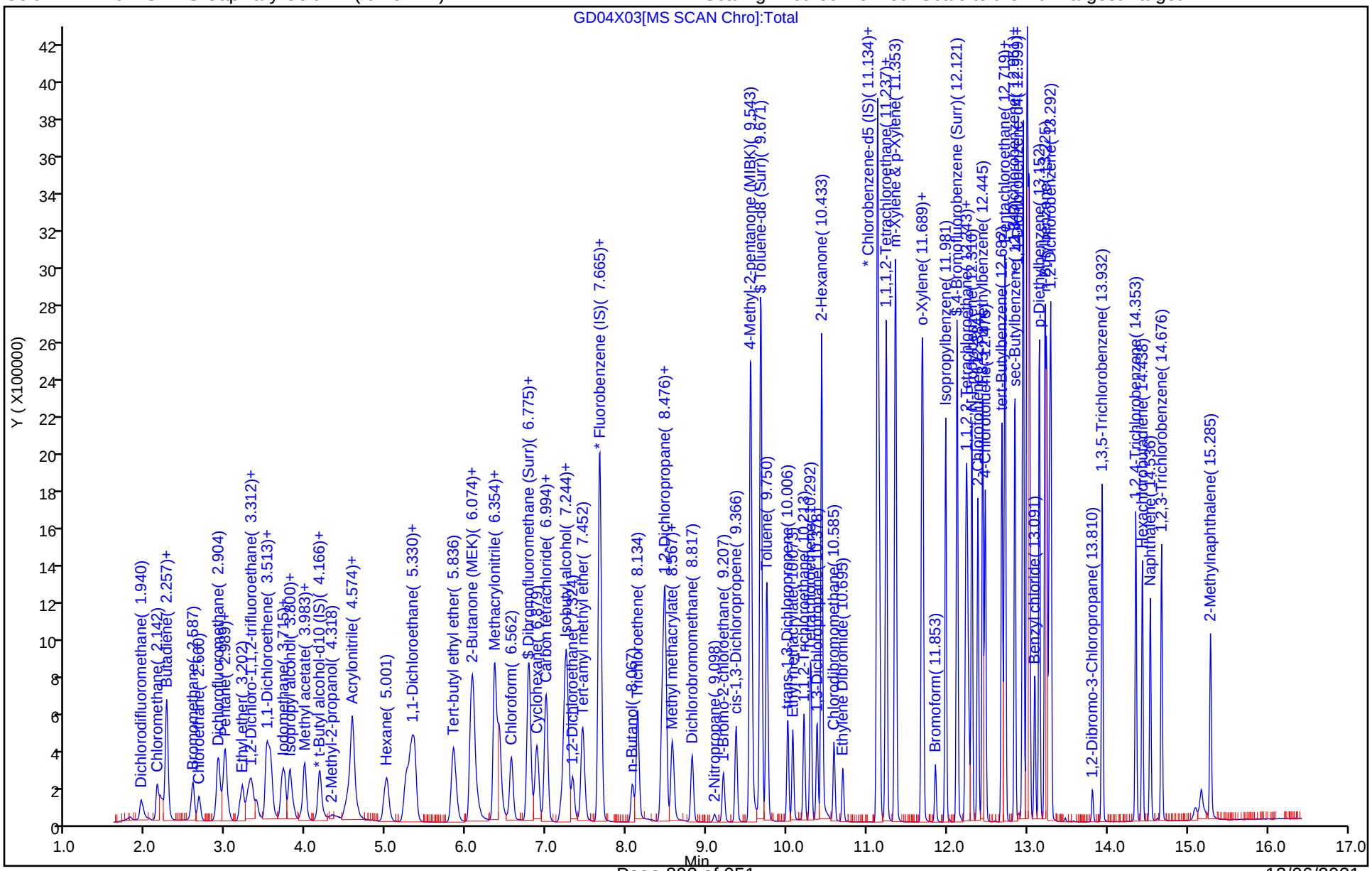
Report Date: 04-Dec-2021 12:24:23 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04X03.D

Injection Date:	04-Dec-2021 10:22:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04X03.D				
Lims ID:	LCS				
Client ID:					
Sample Type:	LCS				
Inject. Date:	04-Dec-2021 10:22:30	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0045539-004				
Misc. Info.:	LCS				
Operator ID:	knk41612	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20211204-45539.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	04-Dec-2021 12:24:17	Calib Date:	27-Jul-2021 21:47:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1614				
First Level Reviewer: kephartk		Date:	04-Dec-2021 11:12:27		

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	9.96	99.58
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.62	96.17
$ 83 Toluene-d8 (Surr)	10.0	9.91	99.13
$ 119 4-Bromofluorobenzene (Surr)	10.0	10.3	102.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-200572/5

Matrix: Water Lab File ID: ID02X04.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 12/02/2021 11:26

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 200572 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.52		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.51		0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	5.73		0.50	0.070
79-00-5	1,1,2-Trichloroethane	5.64		0.50	0.060
75-34-3	1,1-Dichloroethane	5.40		0.50	0.070
75-35-4	1,1-Dichloroethene	5.97		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	5.52		0.50	0.060
107-06-2	1,2-Dichloroethane	5.23		0.50	0.050
78-87-5	1,2-Dichloropropane	5.72		0.50	0.060
78-93-3	2-Butanone (MEK)	76.2		5.0	0.60
591-78-6	2-Hexanone	89.7		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	85.8		5.0	0.70
67-64-1	Acetone	57.7		5.0	0.90
71-43-2	Benzene	5.64		0.50	0.050
74-97-5	Bromochloromethane	5.65		0.50	0.050
75-27-4	Bromodichloromethane	5.63		0.50	0.050
75-25-2	Bromoform	5.40		1.0	0.30
74-83-9	Bromomethane	4.79		0.50	0.070
75-15-0	Carbon disulfide	5.61		1.0	0.060
56-23-5	Carbon tetrachloride	5.55		0.50	0.070
108-90-7	Chlorobenzene	5.51		0.50	0.060
75-00-3	Chloroethane	4.87		0.50	0.070
67-66-3	Chloroform	5.52		0.50	0.090
74-87-3	Chloromethane	4.83		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	5.80		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	5.45		0.50	0.050
124-48-1	Dibromochloromethane	5.36		0.50	0.070
100-41-4	Ethylbenzene	5.54		0.50	0.060
1634-04-4	Methyl tert-butyl ether	5.38		0.50	0.050
75-09-2	Methylene Chloride	5.62		0.50	0.070
100-42-5	Styrene	5.52		0.50	0.050
127-18-4	Tetrachloroethene	5.58		0.50	0.060
108-88-3	Toluene	5.45		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	5.60		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	5.51		0.50	0.060
79-01-6	Trichloroethene	5.58		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-200572/5

Matrix: Water Lab File ID: ID02X04.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 12/02/2021 11:26

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 200572 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	5.01		0.50	0.10
1330-20-7	Xylenes, Total	16.5		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	102		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X04.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 02-Dec-2021 11:26:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045241-005
Misc. Info.: LCSD
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 02-Dec-2021 15:25:14 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1637

First Level Reviewer: kephartk Date: 02-Dec-2021 15:22:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.959	1.965	-0.006	99	337193	5.00	4.44	
4 Chloromethane	50	2.154	2.166	-0.012	99	418364	5.00	4.83	
6 Butadiene	39	2.270	2.276	-0.006	90	497203	5.00	6.25	
5 Vinyl chloride	62	2.276	2.282	-0.006	98	436937	5.00	5.01	
7 Bromomethane	94	2.605	2.611	-0.006	91	303128	5.00	4.79	
8 Chloroethane	64	2.678	2.690	-0.012	100	254976	5.00	4.87	
9 Dichlorofluoromethane	67	2.916	2.922	-0.006	97	644591	5.00	5.12	
10 Trichlorofluoromethane	101	2.989	2.995	-0.006	96	551557	5.00	4.90	
11 Ethyl ether	59	3.221	3.227	-0.006	89	268017	4.97	5.87	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.312	3.318	-0.006	91	444928	5.00	5.52	
13 Acrolein	56	3.391	3.404	-0.013	94	256241	37.6	42.7	
14 1,1-Dichloroethene	96	3.532	3.538	-0.006	98	346027	5.00	5.97	
15 Acetone	43	3.556	3.574	-0.018	86	440948	62.5	57.7	
16 112TCTFE	101	3.568	3.580	-0.012	91	323615	5.00	5.34	
17 Iodomethane	142	3.727	3.739	-0.012	98	635583	5.00	5.48	
18 Ethyl bromide	108	3.751	3.763	-0.012	98	306636	5.07	5.80	
19 Carbon disulfide	76	3.836	3.842	-0.006	99	898571	5.00	5.61	
21 Methyl acetate	43	3.977	3.983	-0.006	96	119985	5.00	5.34	
22 3-Chloro-1-propene	41	4.001	4.013	-0.012	92	493687	5.00	5.19	
23 Methylene Chloride	84	4.190	4.202	-0.012	91	355629	5.00	5.62	
* 24 t-Butyl alcohol-d10 (IS)	65	4.214	4.288	-0.074	97	137453	50.0	50.0	
25 2-Methyl-2-propanol	59	4.361	4.397	-0.036	99	145514	50.0	50.3	
26 Acrylonitrile	53	4.525	4.531	-0.006	100	306653	25.0	30.1	
27 Methyl tert-butyl ether	73	4.598	4.605	-0.007	94	890827	5.00	5.38	
28 trans-1,2-Dichloroethene	96	4.611	4.617	-0.006	99	368527	5.00	5.60	
29 Hexane	57	5.031	5.043	-0.012	90	437389	5.00	4.76	
31 1,1-Dichloroethane	63	5.269	5.275	-0.006	96	645373	5.00	5.40	
32 Isopropyl ether	45	5.324	5.330	-0.006	97	1052248	5.00	5.27	
33 2-Chloro-1,3-butadiene	53	5.379	5.385	-0.006	90	549375	5.00	5.51	
34 Tert-butyl ethyl ether	59	5.860	5.873	-0.013	97	1009558	5.00	5.17	
36 2-Butanone (MEK)	43	6.068	6.080	-0.012	99	1015638	62.5	76.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 cis-1,2-Dichloroethene	96	6.104	6.110	-0.006	81	425301	5.00	5.80	
38 2,2-Dichloropropane	77	6.116	6.129	-0.013	86	582273	5.00	5.60	
40 Propionitrile	54	6.159	6.177	-0.018	96	140671	37.5	39.7	
42 Methacrylonitrile	67	6.366	6.372	-0.006	90	684122	37.5	51.1	
43 Chlorobromomethane	128	6.433	6.440	-0.007	91	178811	5.00	5.65	
44 Tetrahydrofuran	71	6.446	6.452	-0.006	78	126680	25.0	32.0	
45 Chloroform	83	6.586	6.592	-0.006	93	653552	5.00	5.52	
$ 46 Dibromofluoromethane (Surr)	113	6.799	6.805	-0.006	94	619200	10.0	10.1	
47 1,1,1-Trichloroethane	97	6.811	6.818	-0.007	98	606274	5.00	5.51	
48 Cyclohexane	56	6.915	6.921	-0.006	88	567438	5.00	5.20	
51 1,1-Dichloropropene	75	7.025	7.031	-0.006	97	533828	5.00	5.75	
50 Carbon tetrachloride	117	7.025	7.031	-0.006	97	526963	5.00	5.55	
52 Isobutyl alcohol	41	7.177	7.214	-0.037	94	105838	125.0	114.6	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.256	7.263	-0.007	92	123708	10.0	10.1	
54 Benzene	78	7.287	7.293	-0.006	97	1541574	5.00	5.64	
56 1,2-Dichloroethane	62	7.354	7.366	-0.012	97	387362	5.00	5.23	
57 Tert-amyl methyl ether	73	7.476	7.482	-0.006	99	891134	5.00	4.92	
* 58 Fluorobenzene (IS)	96	7.689	7.695	-0.006	99	2429812	10.0	10.0	
59 n-Heptane	43	7.701	7.708	-0.007	90	413330	5.00	4.37	
60 n-Butanol	56	8.073	8.086	-0.013	85	203117	250.0	236.9	
61 Trichloroethene	95	8.171	8.177	-0.006	97	410043	5.00	5.58	
62 Methylcyclohexane	83	8.482	8.488	-0.006	92	620072	5.00	5.08	
63 1,2-Dichloropropane	63	8.500	8.506	-0.006	96	383849	5.00	5.72	
64 Methyl methacrylate	69	8.585	8.585	0.000	87	181731	5.00	6.90	
66 Dibromomethane	93	8.616	8.616	0.000	94	184685	5.00	5.63	
65 1,4-Dioxane	88	8.610	8.634	-0.024	29	25326	125.0	101.6	M
68 Dichlorobromomethane	83	8.848	8.854	-0.006	99	457571	5.00	5.63	
69 2-Nitropropane	41	9.116	9.116	0.000	99	43468	5.00	5.77	
72 1-Bromo-2-chloroethane	63	9.244	9.244	0.000	99	388891	5.00	5.91	
73 cis-1,3-Dichloropropene	75	9.396	9.396	0.000	97	557012	5.00	5.45	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	95	2880874	62.5	85.8	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2559038	10.0	10.2	
76 Toluene	92	9.780	9.786	-0.006	98	1015124	5.00	5.45	
78 trans-1,3-Dichloropropene	75	10.036	10.042	-0.006	91	472763	5.00	5.51	
79 Ethyl methacrylate	69	10.097	10.103	-0.006	88	381776	5.00	5.33	
80 1,1,2-Trichloroethane	97	10.244	10.244	0.000	90	280259	5.00	5.64	
81 Tetrachloroethene	166	10.335	10.335	0.000	98	494980	5.00	5.58	
82 1,3-Dichloropropane	76	10.408	10.408	0.000	87	472252	5.00	5.59	
83 2-Hexanone	43	10.457	10.457	0.000	95	2108581	62.5	89.7	
85 Chlorodibromomethane	129	10.622	10.622	0.000	90	324374	5.00	5.36	
86 Ethylene Dibromide	107	10.731	10.737	-0.006	99	264296	5.00	5.52	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	1942194	10.0	10.0	
88 1-Chlorohexane	91	11.170	11.170	0.000	95	570249	5.00	5.24	
90 Chlorobenzene	112	11.189	11.189	0.000	96	1136594	5.00	5.51	
91 1,1,1,2-Tetrachloroethane	131	11.274	11.274	0.000	95	397659	5.00	5.52	
92 Ethylbenzene	91	11.274	11.274	0.000	98	1984772	5.00	5.54	
93 m-Xylene & p-Xylene	106	11.390	11.390	0.000	100	1574362	10.0	11.1	
94 o-Xylene	106	11.719	11.719	0.000	96	760505	5.00	5.44	
95 Styrene	104	11.731	11.731	0.000	95	1246638	5.00	5.52	
96 Bromoform	173	11.890	11.896	-0.006	98	195738	5.00	5.40	
97 Isopropylbenzene	105	12.018	12.018	0.000	95	2078423	5.00	5.63	
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	93	962135	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
101 1,1,2,2-Tetrachloroethane	83	12.262	12.262	0.000	94	351973	5.00	5.73	
102 Bromobenzene	156	12.280	12.280	0.000	93	484838	5.00	5.76	
103 trans-1,4-Dichloro-2-butene	53	12.286	12.286	0.000	90	339414	25.0	27.9	
104 1,2,3-Trichloropropane	110	12.310	12.310	0.000	83	96250	5.00	5.70	
105 N-Propylbenzene	91	12.347	12.347	0.000	99	2373596	5.00	5.81	
106 2-Chlorotoluene	126	12.426	12.426	0.000	97	473879	5.00	5.65	
107 1,3,5-Trimethylbenzene	105	12.481	12.481	0.000	94	1676524	5.00	5.62	
108 4-Chlorotoluene	126	12.518	12.518	0.000	97	480041	5.00	5.61	
109 tert-Butylbenzene	134	12.725	12.725	0.000	92	373247	5.00	5.70	
110 Pentachloroethane	167	12.755	12.755	0.000	91	269606	5.00	5.10	
111 1,2,4-Trimethylbenzene	105	12.768	12.768	0.000	97	1705913	5.00	5.58	
112 sec-Butylbenzene	105	12.889	12.889	0.000	94	2184028	5.00	5.79	
113 1,3-Dichlorobenzene	146	12.987	12.987	0.000	98	928269	5.00	5.47	
114 4-Isopropyltoluene	119	12.993	12.993	0.000	97	1883097	5.00	5.65	
* 115 1,4-Dichlorobenzene-d4	152	13.042	13.042	0.000	94	1111177	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.060	13.060	0.000	96	939341	5.00	5.41	
117 1,2,3-Trimethylbenzene	120	13.066	13.066	0.000	98	730991	5.00	5.40	
118 Benzyl chloride	126	13.133	13.133	0.000	98	138851	5.00	5.52	
119 n-Butylbenzene	92	13.286	13.286	0.000	97	865265	5.00	5.55	
120 1,2-Dichlorobenzene	146	13.316	13.316	0.000	99	854779	5.00	5.51	
122 1,2-Dibromo-3-Chloropropane	155	13.859	13.859	0.000	89	50407	5.00	5.58	
123 1,3,5-Trichlorobenzene	180	13.987	13.987	0.000	98	679438	5.00	5.47	
124 1,2,4-Trichlorobenzene	180	14.407	14.407	0.000	94	583737	5.00	5.57	
125 Hexachlorobutadiene	225	14.493	14.493	0.000	96	229826	5.00	5.05	
126 Naphthalene	128	14.590	14.590	0.000	97	1098447	5.00	5.50	
127 1,2,3-Trichlorobenzene	180	14.731	14.731	0.000	96	505268	5.00	5.58	
134 Isopropyl alcohol	45		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
137 2-Methylnaphthalene	142		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00029	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00032	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00052	Amount Added:	12.50	Units: uL	
MSV_LCS_EE_00001	Amount Added:	12.50	Units: uL	
MSV_Q_ETBR_00009	Amount Added:	12.50	Units: uL	
MSV_LCS_Penta_00009	Amount Added:	12.50	Units: uL	
MSV_LLcentISS_00002	Amount Added:	5.00	Units: uL	Run Reagent

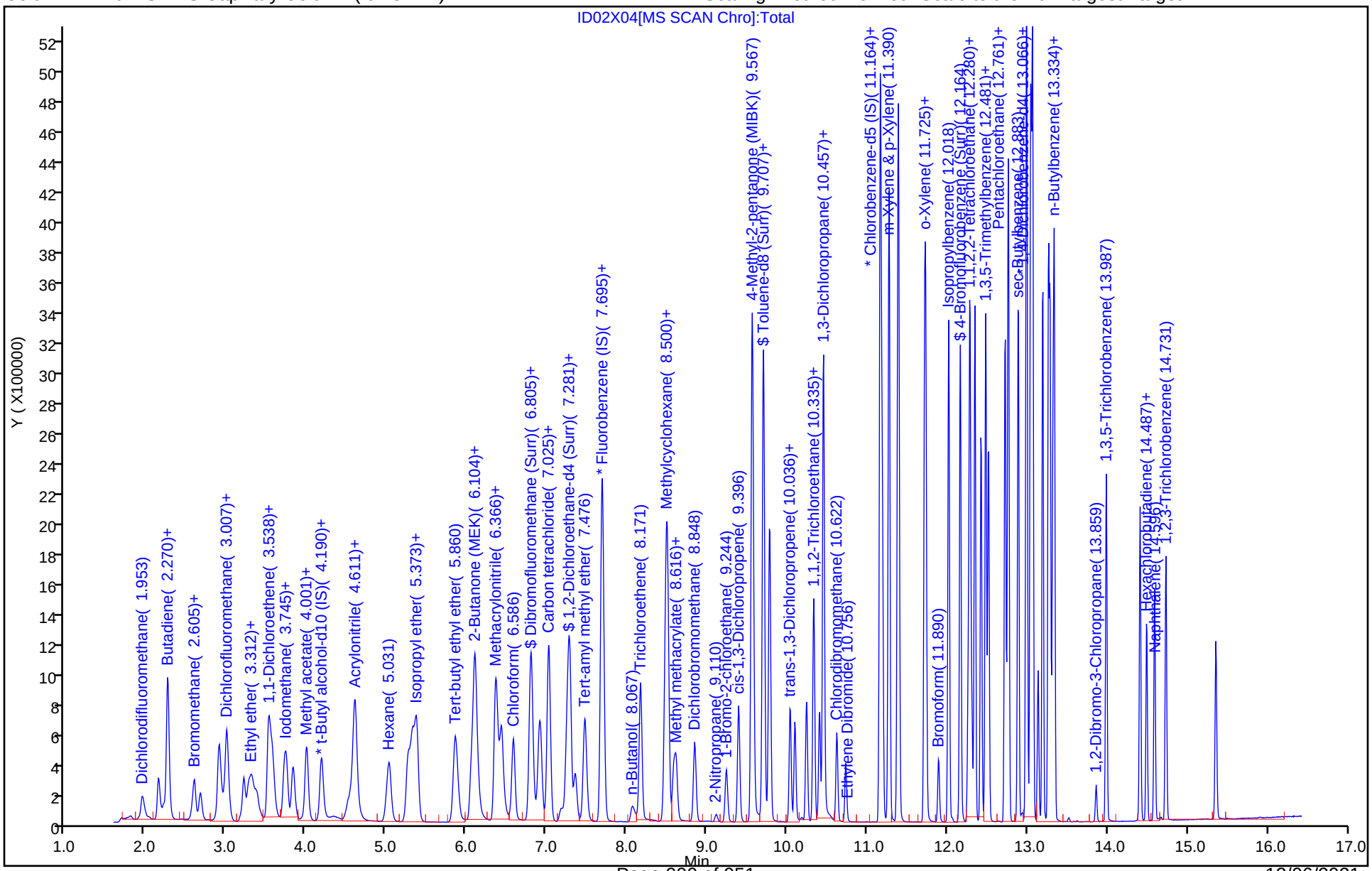
Report Date: 02-Dec-2021 15:25:25 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X04.D

Injection Date:	02-Dec-2021 11:26:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	LCSD			Worklist Smp#:	5
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X04.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 02-Dec-2021 11:26:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045241-005
Misc. Info.: LCSD
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 02-Dec-2021 15:25:14 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1637

First Level Reviewer: kephartk Date: 02-Dec-2021 15:22:52

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.1	101.16
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	101.03
$ 75 Toluene-d8 (Surr)	10.0	10.2	101.96
$ 100 4-Bromofluorobenzene (Surr)	10.0	10.0	100.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-201082/6

Matrix: Water Lab File ID: ID03X05.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 12/03/2021 10:52

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201082 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.25		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.46		0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	5.50		0.50	0.070
79-00-5	1,1,2-Trichloroethane	5.46		0.50	0.060
75-34-3	1,1-Dichloroethane	5.42		0.50	0.070
75-35-4	1,1-Dichloroethene	5.84		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	5.32		0.50	0.060
107-06-2	1,2-Dichloroethane	5.13		0.50	0.050
78-87-5	1,2-Dichloropropane	5.64		0.50	0.060
78-93-3	2-Butanone (MEK)	66.3		5.0	0.60
591-78-6	2-Hexanone	68.7		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	66.0		5.0	0.70
67-64-1	Acetone	56.3		5.0	0.90
71-43-2	Benzene	5.65		0.50	0.050
74-97-5	Bromochloromethane	5.69		0.50	0.050
75-27-4	Bromodichloromethane	5.54		0.50	0.050
75-25-2	Bromoform	5.06		1.0	0.30
74-83-9	Bromomethane	4.51		0.50	0.070
75-15-0	Carbon disulfide	5.54		1.0	0.060
56-23-5	Carbon tetrachloride	5.49		0.50	0.070
108-90-7	Chlorobenzene	5.37		0.50	0.060
75-00-3	Chloroethane	4.70		0.50	0.070
67-66-3	Chloroform	5.50		0.50	0.090
74-87-3	Chloromethane	4.61		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	5.71		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	5.38		0.50	0.050
124-48-1	Dibromochloromethane	5.20		0.50	0.070
100-41-4	Ethylbenzene	5.40		0.50	0.060
1634-04-4	Methyl tert-butyl ether	5.30		0.50	0.050
75-09-2	Methylene Chloride	5.64		0.50	0.070
100-42-5	Styrene	5.36		0.50	0.050
127-18-4	Tetrachloroethene	5.50		0.50	0.060
108-88-3	Toluene	5.45		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	5.65		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	5.31		0.50	0.060
79-01-6	Trichloroethene	5.57		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-201082/6

Matrix: Water Lab File ID: ID03X05.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 12/03/2021 10:52

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201082 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	4.64		0.50	0.10
1330-20-7	Xylenes, Total	16.1		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		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)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X05.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 03-Dec-2021 10:52:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045448-006
Misc. Info.: LCSD
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 03-Dec-2021 12:34:59 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1629

First Level Reviewer: kephartk Date: 03-Dec-2021 11:24:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.953	1.971	-0.018	99	302997	5.00	4.05	
4 Chloromethane	50	2.154	2.172	-0.018	99	393113	5.00	4.61	
6 Butadiene	39	2.270	2.282	-0.012	91	425260	5.00	5.43	
5 Vinyl chloride	62	2.270	2.288	-0.018	97	398638	5.00	4.64	
7 Bromomethane	94	2.605	2.617	-0.012	91	281011	5.00	4.51	
8 Chloroethane	64	2.678	2.690	-0.012	100	242231	5.00	4.70	
9 Dichlorofluoromethane	67	2.910	2.928	-0.018	97	611256	5.00	4.93	
10 Trichlorofluoromethane	101	2.989	3.001	-0.012	96	508739	5.00	4.59	
11 Ethyl ether	59	3.221	3.233	-0.012	89	256031	4.97	5.69	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.306	3.324	-0.018	90	418269	5.00	5.27	
13 Acrolein	56	3.391	3.404	-0.013	100	277097	37.6	37.4	
14 1,1-Dichloroethene	96	3.525	3.544	-0.019	98	333516	5.00	5.84	
15 Acetone	43	3.550	3.568	-0.018	100	529735	62.5	56.3	
16 112TCTFE	101	3.568	3.587	-0.019	92	305331	5.00	5.12	
17 Iodomethane	142	3.727	3.739	-0.012	99	627937	5.00	5.50	
18 Ethyl bromide	108	3.751	3.769	-0.018	98	289567	5.07	5.57	
19 Carbon disulfide	76	3.836	3.849	-0.013	99	873096	5.00	5.54	
21 Methyl acetate	43	3.971	3.989	-0.018	96	132664	5.00	4.79	
22 3-Chloro-1-propene	41	4.001	4.013	-0.012	91	479421	5.00	5.12	
23 Methylene Chloride	84	4.184	4.202	-0.018	90	351623	5.00	5.64	
* 24 t-Butyl alcohol-d10 (IS)	65	4.196	4.208	-0.012	97	169478	50.0	50.0	
25 2-Methyl-2-propanol	59	4.306	4.330	-0.024	98	177179	50.0	49.7	
26 Acrylonitrile	53	4.519	4.531	-0.012	98	322101	25.0	25.7	
27 Methyl tert-butyl ether	73	4.605	4.605	0.000	87	863436	5.00	5.30	
28 trans-1,2-Dichloroethene	96	4.611	4.623	-0.012	99	366073	5.00	5.65	
29 Hexane	57	5.037	5.044	-0.007	90	405091	5.00	4.47	
31 1,1-Dichloroethane	63	5.269	5.281	-0.012	96	637803	5.00	5.42	
32 Isopropyl ether	45	5.330	5.336	-0.006	93	1036630	5.00	5.27	
33 2-Chloro-1,3-butadiene	53	5.379	5.391	-0.012	90	536528	5.00	5.47	
34 Tert-butyl ethyl ether	59	5.860	5.873	-0.013	97	966847	5.00	5.03	
36 2-Butanone (MEK)	43	6.055	6.068	-0.013	99	1090452	62.5	66.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 cis-1,2-Dichloroethene	96	6.104	6.110	-0.006	81	412585	5.00	5.71	
38 2,2-Dichloropropane	77	6.123	6.129	-0.006	88	564606	5.00	5.52	
40 Propionitrile	54	6.147	6.159	-0.012	98	178223	37.5	40.8	
42 Methacrylonitrile	67	6.366	6.373	-0.007	90	684070	37.5	41.4	
43 Chlorobromomethane	128	6.433	6.446	-0.013	89	177429	5.00	5.69	
44 Tetrahydrofuran	71	6.440	6.452	-0.012	77	131520	25.0	27.0	
45 Chloroform	83	6.586	6.592	-0.006	93	641228	5.00	5.50	
$ 46 Dibromofluoromethane (Surr)	113	6.799	6.805	-0.006	94	604891	10.0	10.0	
47 1,1,1-Trichloroethane	97	6.818	6.824	-0.006	98	591826	5.00	5.46	
48 Cyclohexane	56	6.915	6.921	-0.006	88	540493	5.00	5.03	
51 1,1-Dichloropropene	75	7.025	7.037	-0.012	97	517262	5.00	5.66	
50 Carbon tetrachloride	117	7.025	7.037	-0.012	84	513016	5.00	5.49	
52 Isobutyl alcohol	41	7.177	7.171	0.006	94	155589	125.0	136.6	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.256	7.257	-0.001	93	123022	10.0	10.2	
54 Benzene	78	7.287	7.293	-0.006	96	1520972	5.00	5.65	
56 1,2-Dichloroethane	62	7.360	7.366	-0.006	97	373866	5.00	5.13	
57 Tert-amyl methyl ether	73	7.476	7.482	-0.006	99	855651	5.00	4.80	
* 58 Fluorobenzene (IS)	96	7.689	7.695	-0.006	99	2392172	10.0	10.0	
59 n-Heptane	43	7.708	7.708	0.000	89	398034	5.00	4.28	
60 n-Butanol	56	8.055	8.055	0.000	87	288578	250.0	273.0	
61 Trichloroethene	95	8.171	8.177	-0.006	97	402411	5.00	5.57	
62 Methylcyclohexane	83	8.488	8.488	0.000	91	591984	5.00	4.92	
63 1,2-Dichloropropane	63	8.506	8.506	0.000	97	372833	5.00	5.64	
64 Methyl methacrylate	69	8.585	8.586	-0.001	88	173139	5.00	5.33	
65 1,4-Dioxane	88	8.598	8.604	-0.006	32	38676	125.0	121.6	
66 Dibromomethane	93	8.616	8.622	-0.006	93	178021	5.00	5.51	
68 Dichlorobromomethane	83	8.848	8.854	-0.006	99	443854	5.00	5.54	
69 2-Nitropropane	41	9.116	9.116	0.000	98	44197	5.00	4.76	
72 1-Bromo-2-chloroethane	63	9.244	9.250	-0.006	98	367278	5.00	5.67	
73 cis-1,3-Dichloropropene	75	9.396	9.402	-0.006	97	541340	5.00	5.38	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	95	2731234	62.5	66.0	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2516050	10.0	10.1	
76 Toluene	92	9.786	9.787	-0.001	99	1004103	5.00	5.45	
78 trans-1,3-Dichloropropene	75	10.043	10.043	-0.001	91	451107	5.00	5.31	
79 Ethyl methacrylate	69	10.097	10.104	-0.007	88	366909	5.00	5.18	
80 1,1,2-Trichloroethane	97	10.244	10.250	-0.006	90	268139	5.00	5.46	
81 Tetrachloroethene	166	10.335	10.335	0.000	97	482491	5.00	5.50	
82 1,3-Dichloropropane	76	10.408	10.408	0.000	87	452562	5.00	5.42	
83 2-Hexanone	43	10.457	10.457	0.000	95	1990845	62.5	68.7	
85 Chlorodibromomethane	129	10.622	10.628	-0.006	89	311413	5.00	5.20	
86 Ethylene Dibromide	107	10.738	10.738	0.000	99	252101	5.00	5.32	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	87	1921179	10.0	10.0	
88 1-Chlorohexane	91	11.170	11.177	-0.007	96	546248	5.00	5.07	
90 Chlorobenzene	112	11.189	11.195	-0.006	96	1094959	5.00	5.37	
91 1,1,1,2-Tetrachloroethane	131	11.274	11.274	0.000	96	373760	5.00	5.25	
92 Ethylbenzene	91	11.274	11.280	-0.006	98	1915780	5.00	5.40	
93 m-Xylene & p-Xylene	106	11.390	11.390	0.000	100	1518405	10.0	10.8	
94 o-Xylene	106	11.719	11.719	0.000	96	735837	5.00	5.32	
95 Styrene	104	11.737	11.737	0.000	94	1196967	5.00	5.36	
96 Bromoform	173	11.896	11.896	0.000	98	181444	5.00	5.06	
97 Isopropylbenzene	105	12.018	12.024	-0.006	95	1996396	5.00	5.47	
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	93	950224	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
101 1,1,2,2-Tetrachloroethane	83	12.262	12.262	0.000	94	334770	5.00	5.50	
102 Bromobenzene	156	12.280	12.280	0.000	95	467478	5.00	5.61	
103 trans-1,4-Dichloro-2-butene	53	12.286	12.286	0.000	91	345991	25.0	23.1	
104 1,2,3-Trichloropropane	110	12.310	12.310	0.000	83	90706	5.00	5.42	
105 N-Propylbenzene	91	12.347	12.347	0.000	99	2268343	5.00	5.60	
106 2-Chlorotoluene	126	12.426	12.426	0.000	97	452548	5.00	5.45	
107 1,3,5-Trimethylbenzene	105	12.481	12.481	0.000	94	1633224	5.00	5.52	
108 4-Chlorotoluene	126	12.518	12.518	0.000	97	462005	5.00	5.45	
109 tert-Butylbenzene	134	12.725	12.725	0.000	93	360256	5.00	5.56	
110 Pentachloroethane	167	12.761	12.762	-0.001	89	261441	5.00	4.99	
111 1,2,4-Trimethylbenzene	105	12.768	12.768	0.000	97	1652484	5.00	5.45	
112 sec-Butylbenzene	105	12.890	12.890	0.000	94	2100447	5.00	5.62	
113 1,3-Dichlorobenzene	146	12.987	12.987	0.000	98	895074	5.00	5.32	
114 4-Isopropyltoluene	119	12.993	12.993	0.000	97	1816992	5.00	5.50	
* 115 1,4-Dichlorobenzene-d4	152	13.042	13.042	0.000	94	1100843	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.060	13.060	0.000	96	899909	5.00	5.23	
117 1,2,3-Trimethylbenzene	120	13.072	13.072	0.000	98	704035	5.00	5.25	
118 Benzyl chloride	126	13.139	13.140	-0.001	98	126825	5.00	5.09	
119 n-Butylbenzene	92	13.286	13.286	0.000	96	825373	5.00	5.34	
120 1,2-Dichlorobenzene	146	13.322	13.322	0.000	99	812746	5.00	5.29	
122 1,2-Dibromo-3-Chloropropane	155	13.865	13.859	0.006	95	46623	5.00	5.21	
123 1,3,5-Trichlorobenzene	180	13.987	13.987	0.000	98	659047	5.00	5.36	
124 1,2,4-Trichlorobenzene	180	14.414	14.408	0.006	94	561646	5.00	5.41	
125 Hexachlorobutadiene	225	14.493	14.493	0.000	96	217362	5.00	4.82	
126 Naphthalene	128	14.590	14.590	0.000	97	1031302	5.00	5.21	
127 1,2,3-Trichlorobenzene	180	14.731	14.731	0.000	96	474450	5.00	5.29	
134 Isopropyl alcohol	45		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
137 2-Methylnaphthalene	142		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MSV_LCS_VOC#1_00029	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00032	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00052	Amount Added:	12.50	Units: uL	
MSV_LCS_EE_00001	Amount Added:	12.50	Units: uL	
MSV_Q_ETBR_00009	Amount Added:	12.50	Units: uL	
MSV_LCS_Penta_00009	Amount Added:	12.50	Units: uL	
MSV_LLcentISS_00002	Amount Added:	5.00	Units: uL	Run Reagent

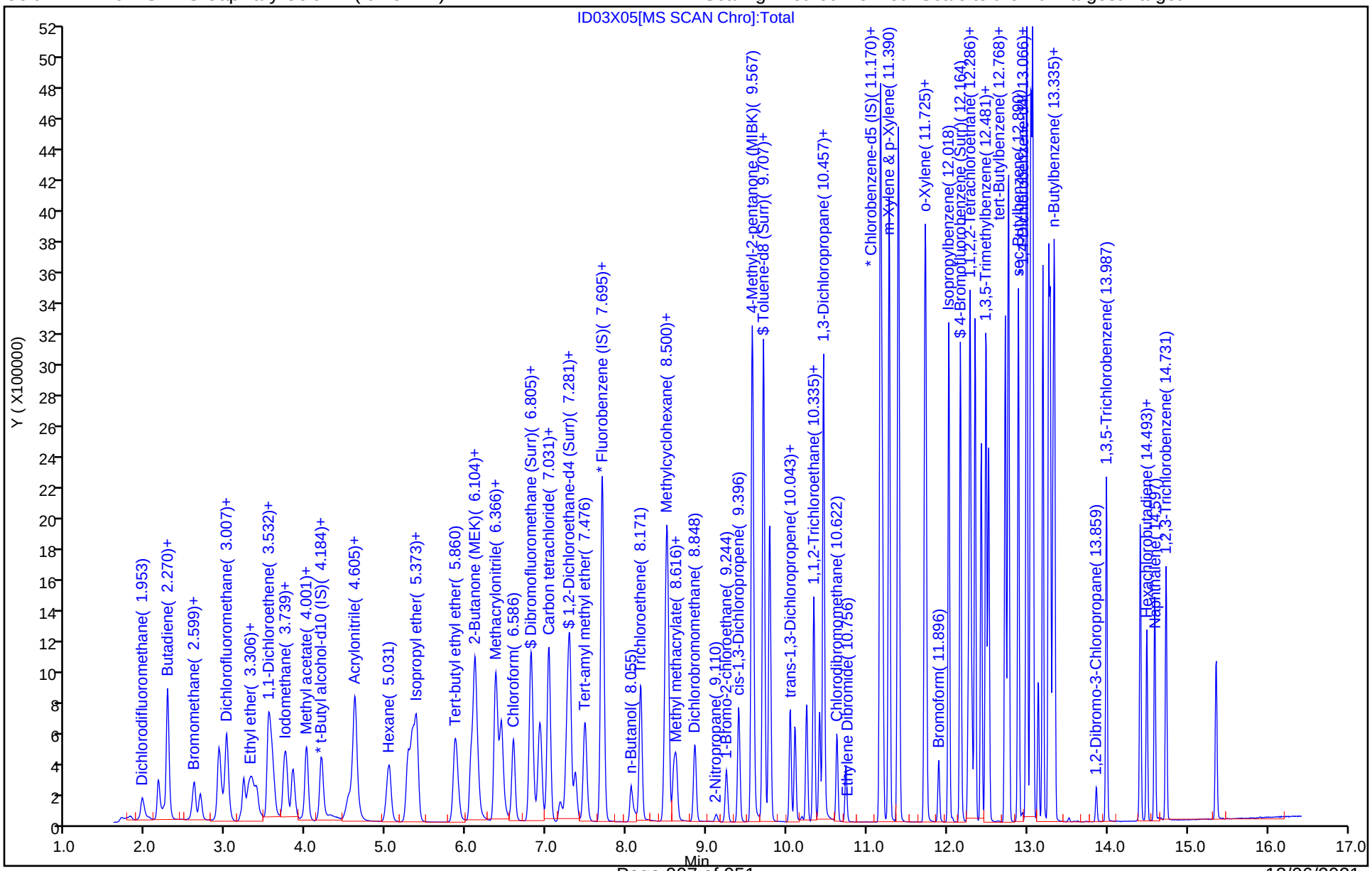
Report Date: 03-Dec-2021 12:35:07 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X05.D

Injection Date:	03-Dec-2021 10:52:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	LCSD			Worklist Smp#:	6
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\ID03X05.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 03-Dec-2021 10:52:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045448-006
Misc. Info.: LCSD
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211203-45448.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 03-Dec-2021 12:34:59 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1629

First Level Reviewer: kephartk Date: 03-Dec-2021 11:24:18

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.0	100.38
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.05
$ 75 Toluene-d8 (Surr)	10.0	10.1	101.34
$ 100 4-Bromofluorobenzene (Surr)	10.0	10.0	100.14

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-201490/5

Matrix: Water Lab File ID: GD04X04.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 12/04/2021 10:44

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201490 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.70		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.77		0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	4.90		0.50	0.070
79-00-5	1,1,2-Trichloroethane	4.69		0.50	0.060
75-34-3	1,1-Dichloroethane	4.20		0.50	0.070
75-35-4	1,1-Dichloroethene	4.64		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	4.59		0.50	0.060
107-06-2	1,2-Dichloroethane	4.30		0.50	0.050
78-87-5	1,2-Dichloropropane	4.34		0.50	0.060
78-93-3	2-Butanone (MEK)	60.7		5.0	0.60
591-78-6	2-Hexanone	62.8		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	59.9		5.0	0.70
67-64-1	Acetone	52.4		5.0	0.90
71-43-2	Benzene	4.49		0.50	0.050
74-97-5	Bromochloromethane	4.58		0.50	0.050
75-27-4	Bromodichloromethane	4.60		0.50	0.050
75-25-2	Bromoform	4.08		1.0	0.30
74-83-9	Bromomethane	4.74		0.50	0.070
75-15-0	Carbon disulfide	4.51		1.0	0.060
56-23-5	Carbon tetrachloride	4.61		0.50	0.070
108-90-7	Chlorobenzene	4.58		0.50	0.060
75-00-3	Chloroethane	4.53		0.50	0.070
67-66-3	Chloroform	4.66		0.50	0.090
74-87-3	Chloromethane	4.50		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	4.70		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	4.33		0.50	0.050
124-48-1	Dibromochloromethane	4.47		0.50	0.070
100-41-4	Ethylbenzene	4.59		0.50	0.060
1634-04-4	Methyl tert-butyl ether	4.60		0.50	0.050
75-09-2	Methylene Chloride	4.46		0.50	0.070
100-42-5	Styrene	4.69		0.50	0.050
127-18-4	Tetrachloroethene	4.29		0.50	0.060
108-88-3	Toluene	4.57		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	4.51		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	4.64		0.50	0.060
79-01-6	Trichloroethene	4.54		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-201490/5

Matrix: Water Lab File ID: GD04X04.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 12/04/2021 10:44

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 201490 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	4.34		0.50	0.10
1330-20-7	Xylenes, Total	13.7		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		80-120
460-00-4	4-Bromofluorobenzene (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04X04.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 04-Dec-2021 10:44:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045539-005
Misc. Info.: LCSD
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 04-Dec-2021 12:24:17 Calib Date: 27-Jul-2021 21:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1614

First Level Reviewer: kephartk Date: 04-Dec-2021 12:11:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.946	1.941	0.005	99	224992	5.00	3.92	
5 Chloromethane	50	2.142	2.142	0.000	99	322427	5.00	4.50	
7 Butadiene	39	2.251	2.258	-0.007	90	316032	5.00	4.15	
8 Vinyl chloride	62	2.257	2.258	-0.001	96	302227	5.00	4.34	
9 Bromomethane	94	2.587	2.587	0.000	91	235409	5.00	4.74	
10 Chloroethane	64	2.660	2.660	0.000	99	187815	5.00	4.53	
12 Dichlorofluoromethane	67	2.897	2.904	-0.007	97	484979	5.00	5.03	
13 Trichlorofluoromethane	101	2.971	2.971	0.000	97	404456	5.00	4.53	
15 Ethyl ether	59	3.208	3.202	0.006	90	220334	4.97	4.87	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.300	3.306	-0.006	90	295221	5.00	4.45	
18 Acrolein	56	3.373	3.379	-0.006	100	210227	37.6	33.7	
19 1,1-Dichloroethene	96	3.507	3.507	0.000	97	222352	5.00	4.64	
20 112TCTFE	101	3.550	3.550	0.000	92	210368	5.00	4.05	
21 Acetone	43	3.550	3.562	-0.012	99	399217	62.5	52.4	
23 Iodomethane	142	3.696	3.696	0.000	99	404421	5.00	4.46	
24 Ethyl bromide	108	3.727	3.727	0.000	98	208823	5.07	4.90	
22 Isopropyl alcohol	45	3.781	3.776	0.005	25	51093	37.5	37.8	
25 Carbon disulfide	76	3.800	3.800	0.000	99	747830	5.00	4.51	
27 Methyl acetate	43	3.946	3.946	0.000	96	118654	5.00	5.10	M
28 3-Chloro-1-propene	41	3.977	3.983	-0.006	92	315043	5.00	3.85	
29 Methylene Chloride	84	4.166	4.166	0.000	87	245269	5.00	4.46	
* 30 t-Butyl alcohol-d10 (IS)	65	4.220	4.245	-0.025	70	147074	50.0	50.0	
31 2-Methyl-2-propanol	59	4.330	4.361	-0.031	97	117983	50.0	46.8	
32 Acrylonitrile	53	4.507	4.525	-0.018	99	242804	25.0	22.9	
33 Methyl tert-butyl ether	73	4.580	4.568	0.012	88	638985	5.00	4.60	
34 trans-1,2-Dichloroethene	96	4.574	4.580	-0.006	96	242037	5.00	4.51	
35 Hexane	57	4.995	5.007	-0.012	92	259136	5.00	3.34	
37 1,1-Dichloroethane	63	5.239	5.245	-0.007	96	396249	5.00	4.20	
38 Isopropyl ether	45	5.306	5.312	-0.006	94	713517	5.00	4.10	
39 2-Chloro-1,3-butadiene	53	5.348	5.354	-0.006	90	343701	5.00	4.44	
40 Tert-butyl ethyl ether	59	5.836	5.842	-0.006	97	733726	5.00	4.62	

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	6.049	6.049	0.000	99	887114	62.5	60.7	
42 cis-1,2-Dichloroethene	96	6.086	6.080	0.006	81	280794	5.00	4.70	
43 2,2-Dichloropropane	77	6.092	6.092	0.000	82	363719	5.00	5.21	
45 Propionitrile	54	6.147	6.141	0.006	99	123833	37.5	32.9	
48 Methacrylonitrile	67	6.354	6.354	0.000	90	541754	37.5	38.5	
49 Chlorobromomethane	128	6.409	6.403	0.006	91	126795	5.00	4.58	
50 Tetrahydrofuran	71	6.409	6.409	0.000	82	109218	25.0	26.3	
51 Chloroform	83	6.561	6.568	-0.007	92	437469	5.00	4.66	
$ 52 Dibromofluoromethane (Surr)	113	6.775	6.775	0.000	94	577507	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.787	6.781	0.006	71	385489	5.00	4.77	
54 Cyclohexane	56	6.878	6.885	-0.007	88	332899	5.00	3.53	
56 Carbon tetrachloride	117	6.994	6.994	0.000	84	328466	5.00	4.61	
57 1,1-Dichloropropene	75	6.994	6.994	0.000	96	321843	5.00	4.38	
58 Isobutyl alcohol	41	7.189	7.189	0.000	91	110437	125.0	103.9	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.226	7.226	0.000	91	121309	10.0	9.53	
60 Benzene	78	7.256	7.250	0.006	97	1006665	5.00	4.49	
61 1,2-Dichloroethane	62	7.323	7.324	-0.001	98	270550	5.00	4.30	
63 Tert-amyl methyl ether	73	7.451	7.446	0.005	99	679621	5.00	4.55	
* 64 Fluorobenzene (IS)	96	7.659	7.659	0.000	99	2297910	10.0	10.0	
65 n-Heptane	43	7.677	7.671	0.006	87	282118	5.00	3.31	
67 n-Butanol	56	8.073	8.067	0.006	87	232969	250.0	295.7	
68 Trichloroethene	95	8.134	8.134	0.000	98	267561	5.00	4.54	
69 Methylcyclohexane	83	8.445	8.445	0.000	89	374059	5.00	3.71	Ma
70 1,2-Dichloropropane	63	8.470	8.470	0.000	95	250262	5.00	4.34	
71 2-ethoxy-2-methyl butane	87	8.482	8.482	0.000	95	389519	5.00	4.68	
72 Methyl methacrylate	69	8.561	8.555	0.006	89	137123	5.00	5.12	
74 Dibromomethane	93	8.579	8.573	0.006	95	136401	5.00	4.72	
73 1,4-Dioxane	88	8.598	8.610	-0.012	74	27627	125.0	196.6	M
76 Dichlorobromomethane	83	8.817	8.817	0.000	100	316388	5.00	4.60	
77 2-Nitropropane	41	9.098	9.098	0.000	99	35192	5.00	4.65	
80 1-Bromo-2-chloroethane	63	9.201	9.207	-0.006	99	281345	5.00	4.48	
81 cis-1,3-Dichloropropene	75	9.366	9.366	0.000	97	370256	5.00	4.33	
82 4-Methyl-2-pentanone (MIBK)	43	9.543	9.543	0.000	95	2146745	62.5	59.9	
$ 83 Toluene-d8 (Surr)	98	9.671	9.671	0.000	93	2331736	10.0	9.99	
84 Toluene	92	9.750	9.750	0.000	98	654819	5.00	4.57	
96 trans-1,3-Dichloropropene	75	10.012	10.006	0.006	92	332332	5.00	4.64	
98 Ethyl methacrylate	69	10.073	10.073	0.000	88	278345	5.00	4.50	
99 1,1,2-Trichloroethane	97	10.213	10.213	0.000	90	204988	5.00	4.69	
100 Tetrachloroethene	166	10.298	10.299	-0.001	98	292894	5.00	4.29	
101 1,3-Dichloropropane	76	10.378	10.378	0.000	88	336935	5.00	4.56	
102 2-Hexanone	43	10.433	10.433	0.000	95	1635798	62.5	62.8	
104 Chlorodibromomethane	129	10.585	10.585	0.000	89	235373	5.00	4.47	
105 Ethylene Dibromide	107	10.695	10.695	0.000	99	194796	5.00	4.59	
* 106 Chlorobenzene-d5 (IS)	117	11.128	11.128	0.000	85	1792903	10.0	10.0	
107 1-Chlorohexane	91	11.140	11.140	0.000	95	349332	5.00	4.22	
108 Chlorobenzene	112	11.152	11.152	0.000	95	759749	5.00	4.58	
110 1,1,1,2-Tetrachloroethane	131	11.237	11.237	0.000	96	268407	5.00	4.70	
111 Ethylbenzene	91	11.237	11.237	0.000	98	1271750	5.00	4.59	
112 m-Xylene & p-Xylene	106	11.353	11.353	0.000	100	993790	10.0	9.23	
113 o-Xylene	106	11.682	11.683	-0.001	96	477800	5.00	4.49	
114 Styrene	104	11.701	11.695	0.006	95	841453	5.00	4.69	
115 Bromoform	173	11.853	11.853	0.000	97	138242	5.00	4.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 Isopropylbenzene	105	11.981	11.981	0.000	95	1278203	5.00	4.70	
$ 119 4-Bromofluorobenzene (Surr)	95	12.121	12.121	0.000	90	880950	10.0	10.3	
120 1,1,2,2-Tetrachloroethane	83	12.225	12.225	0.000	93	267648	5.00	4.90	
121 Bromobenzene	156	12.237	12.237	0.000	95	327709	5.00	4.72	
122 trans-1,4-Dichloro-2-butene	53	12.249	12.249	0.000	90	194992	25.0	15.0	
123 1,2,3-Trichloropropane	110	12.274	12.274	0.000	84	71460	5.00	4.80	
124 N-Propylbenzene	91	12.304	12.304	0.000	99	1532537	5.00	4.85	
125 2-Chlorotoluene	126	12.383	12.384	-0.001	97	316027	5.00	4.91	
126 1,3,5-Trimethylbenzene	105	12.444	12.445	-0.001	94	1106821	5.00	4.89	
127 4-Chlorotoluene	126	12.475	12.475	0.000	97	331097	5.00	4.92	
128 tert-Butylbenzene	134	12.682	12.682	0.000	93	243331	5.00	4.96	
129 Pentachloroethane	167	12.713	12.713	0.000	88	205591	5.00	4.74	
130 1,2,4-Trimethylbenzene	105	12.725	12.725	0.000	97	1162819	5.00	4.96	
131 sec-Butylbenzene	105	12.847	12.847	0.000	94	1432464	5.00	4.96	
132 1,3-Dichlorobenzene	146	12.944	12.944	0.000	98	665050	5.00	4.73	
133 4-Isopropyltoluene	119	12.950	12.951	-0.001	97	1268031	5.00	5.02	
* 134 1,4-Dichlorobenzene-d4	152	12.999	12.999	0.000	94	1001171	10.0	10.0	
135 1,4-Dichlorobenzene	146	13.017	13.018	-0.001	95	684174	5.00	4.72	
136 1,2,3-Trimethylbenzene	120	13.024	13.024	0.000	98	521000	5.00	4.82	
137 Benzyl chloride	126	13.097	13.091	0.006	98	108494	5.00	5.15	
138 p-Diethylbenzene	119	13.152	13.152	0.000	91	748562	5.00	4.81	
139 n-Butylbenzene	92	13.243	13.243	0.000	97	652743	5.00	4.91	
140 1,2-Dichlorobenzene	146	13.274	13.274	0.000	99	630356	5.00	4.71	
142 1,2-Dibromo-3-Chloropropane	155	13.816	13.810	0.006	88	34753	5.00	3.96	
143 1,3,5-Trichlorobenzene	180	13.932	13.938	-0.006	98	524562	5.00	4.48	
144 1,2,4-Trichlorobenzene	180	14.353	14.353	0.000	95	459317	5.00	4.30	
145 Hexachlorobutadiene	225	14.438	14.438	0.000	97	228440	5.00	4.32	
146 Naphthalene	128	14.535	14.536	-0.001	97	824368	5.00	4.38	
147 1,2,3-Trichlorobenzene	180	14.676	14.676	0.000	95	413990	5.00	4.34	
148 2-Methylnaphthalene	142	15.285	15.285	0.000	91	432313	5.00	3.68	
160 Pentane	43	2.989	2.989	0.000	96	305978	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LCS_VOC#1_00029	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00032	Amount Added:	12.50	Units: uL	
MSV_Q_ETBR_00008	Amount Added:	12.50	Units: uL	
MSV_LCS_EE_00001	Amount Added:	12.50	Units: uL	
MSV_LCS_Penta_00009	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00052	Amount Added:	12.50	Units: uL	
MSV_29_826ISS_00026	Amount Added:	1.00	Units: uL	Run Reagent

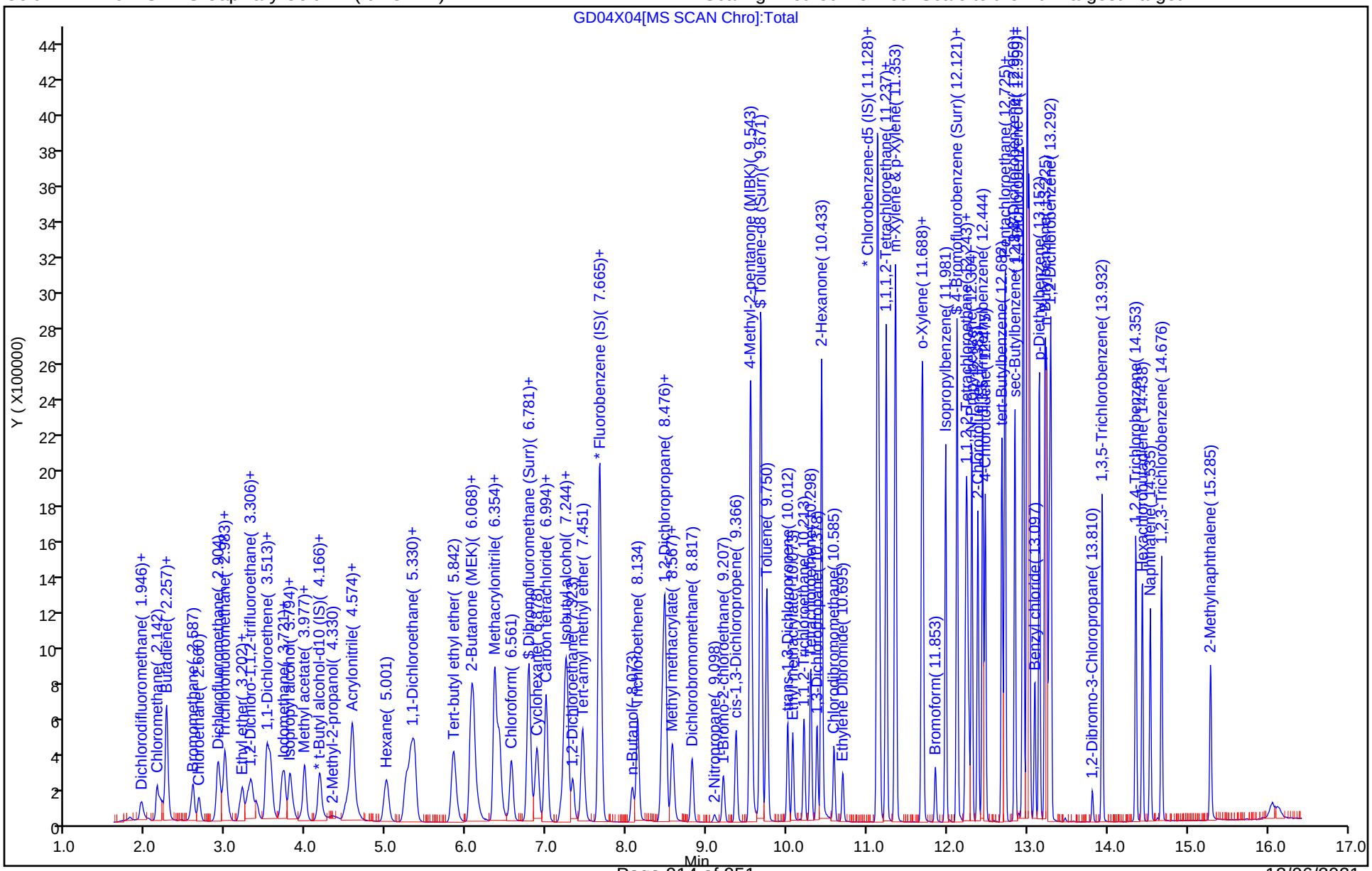
Report Date: 04-Dec-2021 12:24:29 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04X04.D

Injection Date:	04-Dec-2021 10:44:30	Instrument ID:	16334	Operator ID:	knk41612
Lims ID:	LCSD			Worklist Smp#:	5
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\GD04X04.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 04-Dec-2021 10:44:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045539-005
Misc. Info.: LCSD
Operator ID: knk41612 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20211204-45539.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 04-Dec-2021 12:24:17 Calib Date: 27-Jul-2021 21:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20210727-35331.b\GL27X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1614

First Level Reviewer: kephartk Date: 04-Dec-2021 12:11:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.1	100.86
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.53	95.27
$ 83 Toluene-d8 (Surr)	10.0	9.99	99.87
$ 119 4-Bromofluorobenzene (Surr)	10.0	10.3	103.21

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MS MS Lab Sample ID: 410-64660-6 MS

Matrix: Water Lab File ID: ID02X11.D

Analysis Method: 8260D Date Collected: 11/23/2021 11:05

Sample wt/vol: 25(mL) Date Analyzed: 12/02/2021 13:55

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 200572 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.17		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.92		0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	5.09		0.50	0.070
79-00-5	1,1,2-Trichloroethane	5.33		0.50	0.060
75-34-3	1,1-Dichloroethane	5.67		0.50	0.070
75-35-4	1,1-Dichloroethene	6.53		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	5.08		0.50	0.060
107-06-2	1,2-Dichloroethane	5.10		0.50	0.050
78-87-5	1,2-Dichloropropane	5.70		0.50	0.060
78-93-3	2-Butanone (MEK)	65.6		5.0	0.60
591-78-6	2-Hexanone	69.7		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	66.5		5.0	0.70
67-64-1	Acetone	54.1		5.0	0.90
71-43-2	Benzene	5.74		0.50	0.050
74-97-5	Bromochloromethane	5.77		0.50	0.050
75-27-4	Bromodichloromethane	5.50		0.50	0.050
75-25-2	Bromoform	4.84		1.0	0.30
74-83-9	Bromomethane	4.79		0.50	0.070
75-15-0	Carbon disulfide	6.00		1.0	0.060
56-23-5	Carbon tetrachloride	5.86		0.50	0.070
108-90-7	Chlorobenzene	5.38		0.50	0.060
75-00-3	Chloroethane	4.88		0.50	0.070
67-66-3	Chloroform	5.92		0.50	0.090
74-87-3	Chloromethane	5.01		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	6.78		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	5.30		0.50	0.050
124-48-1	Dibromochloromethane	5.02		0.50	0.070
100-41-4	Ethylbenzene	5.43		0.50	0.060
1634-04-4	Methyl tert-butyl ether	5.18		0.50	0.050
75-09-2	Methylene Chloride	5.69		0.50	0.070
100-42-5	Styrene	5.29		0.50	0.050
127-18-4	Tetrachloroethene	10.7		0.50	0.060
108-88-3	Toluene	5.44		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	5.87		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	5.10		0.50	0.060
79-01-6	Trichloroethene	6.83		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MS MS Lab Sample ID: 410-64660-6 MS

Matrix: Water Lab File ID: ID02X11.D

Analysis Method: 8260D Date Collected: 11/23/2021 11:05

Sample wt/vol: 25(mL) Date Analyzed: 12/02/2021 13:55

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 200572 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	5.02		0.50	0.10
1330-20-7	Xylenes, Total	16.2		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X11.D
Lims ID: 410-64660-A-6 MS
Client ID: HD-COD-SW-15-0/1-0 MS
Sample Type: MS
Inject. Date: 02-Dec-2021 13:55:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045241-012
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 02-Dec-2021 18:51:26 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1601

First Level Reviewer: beckerk Date: 02-Dec-2021 18:42:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.953	1.965	-0.012	99	430322	5.00	5.60	
4 Chloromethane	50	2.154	2.166	-0.012	99	438371	5.00	5.01	
6 Butadiene	39	2.270	2.276	-0.006	90	516266	5.00	6.42	
5 Vinyl chloride	62	2.270	2.282	-0.012	98	443139	5.00	5.02	
7 Bromomethane	94	2.599	2.611	-0.012	91	306072	5.00	4.79	
8 Chloroethane	64	2.678	2.690	-0.012	100	258163	5.00	4.88	
9 Dichlorofluoromethane	67	2.910	2.922	-0.012	97	654597	5.00	5.15	
10 Trichlorofluoromethane	101	2.989	2.995	-0.006	97	621811	5.00	5.47	
11 Ethyl ether	59	3.214	3.227	-0.013	90	272295	4.98	5.90	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.318	3.318	0.000	92	465689	5.00	5.72	
13 Acrolein	56	3.391	3.404	-0.013	90	264114	37.6	37.7	
14 1,1-Dichloroethene	96	3.525	3.538	-0.013	98	382942	5.00	6.53	
15 Acetone	43	3.550	3.574	-0.024	100	481554	62.6	54.1	
16 112TCTFE	101	3.568	3.580	-0.012	91	413269	5.00	6.75	
17 Iodomethane	142	3.727	3.739	-0.012	99	668782	5.00	5.71	
18 Ethyl bromide	108	3.751	3.763	-0.012	98	318878	5.07	5.97	
19 Carbon disulfide	76	3.836	3.842	-0.006	99	971321	5.00	6.00	
21 Methyl acetate	43	3.977	3.983	-0.006	97	119206	5.00	4.55	
22 3-Chloro-1-propene	41	4.001	4.013	-0.012	91	508584	5.00	5.29	
23 Methylene Chloride	84	4.190	4.202	-0.012	90	364132	5.00	5.69	
* 24 t-Butyl alcohol-d10 (IS)	65	4.233	4.288	-0.055	96	160347	50.0	50.0	
25 2-Methyl-2-propanol	59	4.330	4.397	-0.067	99	153413	50.0	45.4	
26 Acrylonitrile	53	4.519	4.531	-0.012	99	307150	25.0	25.9	
27 Methyl tert-butyl ether	73	4.592	4.605	-0.013	94	866671	5.00	5.18	
28 trans-1,2-Dichloroethene	96	4.611	4.617	-0.006	99	390680	5.00	5.87	
29 Hexane	57	5.031	5.043	-0.012	90	577067	5.00	6.21	
31 1,1-Dichloroethane	63	5.263	5.275	-0.012	96	684488	5.00	5.67	
32 Isopropyl ether	45	5.324	5.330	-0.006	93	1054675	5.00	5.23	
33 2-Chloro-1,3-butadiene	53	5.379	5.385	-0.006	90	589691	5.00	5.85	
34 Tert-butyl ethyl ether	59	5.860	5.873	-0.013	96	987008	5.00	5.00	
36 2-Butanone (MEK)	43	6.055	6.080	-0.025	99	1021100	62.6	65.6	
37 cis-1,2-Dichloroethene	96	6.098	6.110	-0.012	81	502928	5.00	6.78	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2,2-Dichloropropane	77	6.116	6.129	-0.013	87	609258	5.00	5.80	
40 Propionitrile	54	6.147	6.177	-0.030	98	135071	37.5	32.7	
42 Methacrylonitrile	67	6.360	6.372	-0.012	90	656830	37.5	42.0	
43 Chlorobromomethane	128	6.433	6.440	-0.007	91	184541	5.00	5.77	
44 Tetrahydrofuran	71	6.439	6.452	-0.013	78	127809	25.0	27.7	
45 Chloroform	83	6.586	6.592	-0.006	93	708577	5.00	5.92	
$ 46 Dibromofluoromethane (Surr)	113	6.799	6.805	-0.006	94	623561	10.0	10.1	
47 1,1,1-Trichloroethane	97	6.817	6.818	-0.001	98	658596	5.00	5.92	
48 Cyclohexane	56	6.915	6.921	-0.006	88	690754	5.00	6.26	
51 1,1-Dichloropropene	75	7.025	7.031	-0.006	97	562252	5.00	5.99	
50 Carbon tetrachloride	117	7.025	7.031	-0.006	95	562261	5.00	5.86	
52 Isobutyl alcohol	41	7.171	7.214	-0.043	95	128999	125.1	119.7	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.250	7.263	-0.013	99	125311	10.0	10.1	
54 Benzene	78	7.287	7.293	-0.006	96	1584150	5.00	5.74	
56 1,2-Dichloroethane	62	7.354	7.366	-0.012	97	381948	5.00	5.10	
57 Tert-amyl methyl ether	73	7.476	7.482	-0.006	99	862583	5.00	4.71	
* 58 Fluorobenzene (IS)	96	7.689	7.695	-0.006	99	2456215	10.0	10.0	
59 n-Heptane	43	7.701	7.708	-0.007	90	561947	5.00	5.88	
60 n-Butanol	56	8.055	8.086	-0.031	87	226389	250.2	226.4	
61 Trichloroethene	95	8.171	8.177	-0.006	97	506724	5.00	6.83	
62 Methylcyclohexane	83	8.482	8.488	-0.006	93	777364	5.00	6.30	
63 1,2-Dichloropropane	63	8.506	8.506	0.000	97	386490	5.00	5.70	
64 Methyl methacrylate	69	8.585	8.585	0.000	87	168309	5.00	5.48	
66 Dibromomethane	93	8.616	8.616	0.000	94	180327	5.00	5.44	
65 1,4-Dioxane	88	8.610	8.634	-0.024	30	23435	125.1	84.6	
68 Dichlorobromomethane	83	8.848	8.854	-0.006	99	451900	5.00	5.50	
69 2-Nitropropane	41	9.116	9.116	0.000	98	38392	5.00	4.37	
72 1-Bromo-2-chloroethane	63	9.244	9.244	0.000	98	371790	5.00	5.59	
73 cis-1,3-Dichloropropene	75	9.396	9.396	0.000	97	547136	5.00	5.30	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	95	2604245	62.6	66.5	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2583529	10.0	10.1	
76 Toluene	92	9.780	9.786	-0.006	98	1031106	5.00	5.44	
78 trans-1,3-Dichloropropene	75	10.036	10.042	-0.006	91	446157	5.00	5.10	
79 Ethyl methacrylate	69	10.097	10.103	-0.006	88	357523	5.00	4.90	
80 1,1,2-Trichloroethane	97	10.244	10.244	0.000	90	269796	5.00	5.33	
81 Tetrachloroethene	166	10.335	10.335	0.000	98	963429	5.00	10.7	
82 1,3-Dichloropropane	76	10.408	10.408	0.000	88	449506	5.00	5.23	
83 2-Hexanone	43	10.457	10.457	0.000	95	1910963	62.6	69.7	
85 Chlorodibromomethane	129	10.622	10.622	0.000	89	309650	5.00	5.02	
86 Ethylene Dibromide	107	10.731	10.737	-0.006	98	247817	5.00	5.08	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	1978119	10.0	10.0	
88 1-Chlorohexane	91	11.170	11.170	0.000	96	588827	5.00	5.31	
90 Chlorobenzene	112	11.189	11.189	0.000	96	1129530	5.00	5.38	
91 1,1,1,2-Tetrachloroethane	131	11.274	11.274	0.000	96	379392	5.00	5.17	
92 Ethylbenzene	91	11.274	11.274	0.000	98	1981804	5.00	5.43	
93 m-Xylene & p-Xylene	106	11.390	11.390	0.000	100	1567186	10.0	10.9	
94 o-Xylene	106	11.719	11.719	0.000	96	747547	5.00	5.25	
95 Styrene	104	11.731	11.731	0.000	95	1216345	5.00	5.29	
96 Bromoform	173	11.890	11.896	-0.006	98	178552	5.00	4.84	
97 Isopropylbenzene	105	12.018	12.018	0.000	95	2053131	5.00	5.46	
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	93	973187	10.0	9.96	
101 1,1,2,2-Tetrachloroethane	83	12.262	12.262	0.000	94	317559	5.00	5.09	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
102 Bromobenzene	156	12.280	12.280	0.000	93	469460	5.00	5.49	
103 trans-1,4-Dichloro-2-butene	53	12.286	12.286	0.000	92	303240	25.0	21.4	
104 1,2,3-Trichloropropane	110	12.310	12.310	0.000	83	86912	5.00	5.07	
105 N-Propylbenzene	91	12.347	12.347	0.000	99	2296511	5.00	5.53	
106 2-Chlorotoluene	126	12.420	12.426	-0.006	97	463178	5.00	5.44	
107 1,3,5-Trimethylbenzene	105	12.481	12.481	0.000	94	1650787	5.00	5.45	
108 4-Chlorotoluene	126	12.518	12.518	0.000	97	473313	5.00	5.44	
109 tert-Butylbenzene	134	12.725	12.725	0.000	92	366325	5.00	5.51	
110 Pentachloroethane	167	12.755	12.755	0.000	92	285208	5.00	5.31	
111 1,2,4-Trimethylbenzene	105	12.768	12.768	0.000	96	1660729	5.00	5.35	
112 sec-Butylbenzene	105	12.889	12.889	0.000	94	2164197	5.00	5.65	
113 1,3-Dichlorobenzene	146	12.987	12.987	0.000	98	901384	5.00	5.23	
114 4-Isopropyltoluene	119	12.993	12.993	0.000	97	1838889	5.00	5.43	
* 115 1,4-Dichlorobenzene-d4	152	13.042	13.042	0.000	94	1128618	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.060	13.060	0.000	96	904318	5.00	5.13	
117 1,2,3-Trimethylbenzene	120	13.066	13.066	0.000	98	702815	5.00	5.11	
118 Benzyl chloride	126	13.133	13.133	0.000	98	126248	5.00	4.95	
119 n-Butylbenzene	92	13.286	13.286	0.000	97	844622	5.00	5.33	
120 1,2-Dichlorobenzene	146	13.316	13.316	0.000	99	812960	5.00	5.16	
122 1,2-Dibromo-3-Chloropropane	155	13.859	13.859	0.000	89	43220	5.00	4.71	
123 1,3,5-Trichlorobenzene	180	13.987	13.987	0.000	98	648211	5.00	5.14	
124 1,2,4-Trichlorobenzene	180	14.407	14.407	0.000	94	541921	5.00	5.09	
125 Hexachlorobutadiene	225	14.493	14.493	0.000	96	228311	5.00	4.94	
126 Naphthalene	128	14.590	14.590	0.000	97	971985	5.00	4.79	
127 1,2,3-Trichlorobenzene	180	14.731	14.731	0.000	96	450685	5.00	4.90	
134 Isopropyl alcohol	45		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
137 2-Methylnaphthalene	142		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MSV_LCS_EE_00001	Amount Added:	5.38	Units: uL	
MSV_Q_ETBR_00009	Amount Added:	5.38	Units: uL	
MSV_LCS_Penta_00009	Amount Added:	5.38	Units: uL	
MSV_LCS_VOC#1_00029	Amount Added:	5.38	Units: uL	
MSV_LCS_ACROL_00032	Amount Added:	5.38	Units: uL	
MSV_QC_Gas826_00052	Amount Added:	5.38	Units: uL	
MSV_LLcentISS_00002	Amount Added:	5.00	Units: uL	Run Reagent

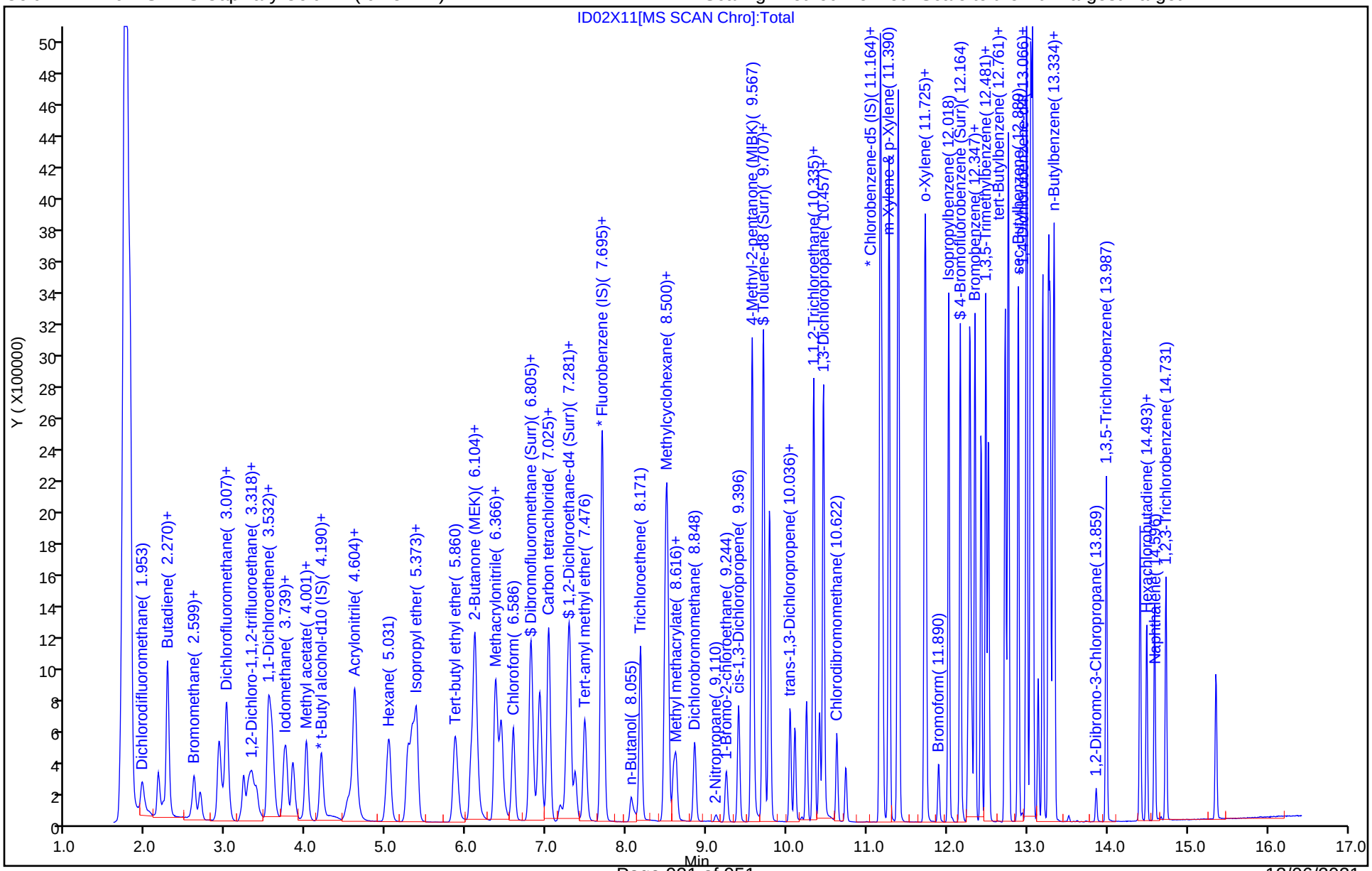
Report Date: 02-Dec-2021 18:52:40 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X11.D

Injection Date:	02-Dec-2021 13:55:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	410-64660-A-6 MS			Worklist Smp#:	12
Client ID:	HD-COD-SW-15-0/1-0 MS				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X11.D				
Lims ID:	410-64660-A-6 MS				
Client ID:	HD-COD-SW-15-0/1-0 MS				
Sample Type:	MS				
Inject. Date:	02-Dec-2021 13:55:30	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0045241-012				
Operator ID:	KNK41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	02-Dec-2021 18:51:26	Calib Date:	24-Aug-2021 02:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1601				

First Level Reviewer: beckerk Date: 02-Dec-2021 18:42:37

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.1	100.78
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	101.24
$ 75 Toluene-d8 (Surr)	10.0	10.1	101.06
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.96	99.61

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MSD MSD Lab Sample ID: 410-64660-6 MSD

Matrix: Water Lab File ID: ID02X12.D

Analysis Method: 8260D Date Collected: 11/23/2021 11:05

Sample wt/vol: 25(mL) Date Analyzed: 12/02/2021 14:16

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 200572 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.30		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.92		0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	5.08		0.50	0.070
79-00-5	1,1,2-Trichloroethane	5.32		0.50	0.060
75-34-3	1,1-Dichloroethane	5.63		0.50	0.070
75-35-4	1,1-Dichloroethene	6.47		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	5.11		0.50	0.060
107-06-2	1,2-Dichloroethane	4.93		0.50	0.050
78-87-5	1,2-Dichloropropane	5.68		0.50	0.060
78-93-3	2-Butanone (MEK)	66.2		5.0	0.60
591-78-6	2-Hexanone	77.7		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	74.2		5.0	0.70
67-64-1	Acetone	50.7		5.0	0.90
71-43-2	Benzene	5.74		0.50	0.050
74-97-5	Bromochloromethane	5.53		0.50	0.050
75-27-4	Bromodichloromethane	5.47		0.50	0.050
75-25-2	Bromoform	4.79		1.0	0.30
74-83-9	Bromomethane	4.78		0.50	0.070
75-15-0	Carbon disulfide	5.96		1.0	0.060
56-23-5	Carbon tetrachloride	5.88		0.50	0.070
108-90-7	Chlorobenzene	5.39		0.50	0.060
75-00-3	Chloroethane	4.86		0.50	0.070
67-66-3	Chloroform	5.88		0.50	0.090
74-87-3	Chloromethane	4.93		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	6.73		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	5.33		0.50	0.050
124-48-1	Dibromochloromethane	5.04		0.50	0.070
100-41-4	Ethylbenzene	5.54		0.50	0.060
1634-04-4	Methyl tert-butyl ether	5.09		0.50	0.050
75-09-2	Methylene Chloride	5.60		0.50	0.070
100-42-5	Styrene	5.36		0.50	0.050
127-18-4	Tetrachloroethene	10.7		0.50	0.060
108-88-3	Toluene	5.54		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	5.81		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	5.19		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-64660-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MSD MSD Lab Sample ID: 410-64660-6 MSD

Matrix: Water Lab File ID: ID02X12.D

Analysis Method: 8260D Date Collected: 11/23/2021 11:05

Sample wt/vol: 25(mL) Date Analyzed: 12/02/2021 14:16

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 200572 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	6.87		0.50	0.060
75-01-4	Vinyl chloride	5.11		0.50	0.10
1330-20-7	Xylenes, Total	16.5		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		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)	102		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X12.D
Lims ID: 410-64660-A-6 MSD
Client ID: HD-COD-SW-15-0/1-0 MSD
Sample Type: MSD
Inject. Date: 02-Dec-2021 14:16:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0045241-013
Operator ID: KNK41612 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 02-Dec-2021 18:51:26 Calib Date: 24-Aug-2021 02:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1601

First Level Reviewer: beckerk Date: 02-Dec-2021 18:42:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.952	1.965	-0.013	99	431721	5.00	5.58	
4 Chloromethane	50	2.154	2.166	-0.012	99	435016	5.00	4.93	
6 Butadiene	39	2.269	2.276	-0.007	91	509072	5.00	6.29	
5 Vinyl chloride	62	2.269	2.282	-0.013	97	454072	5.00	5.11	
7 Bromomethane	94	2.599	2.611	-0.012	90	307928	5.00	4.78	
8 Chloroethane	64	2.678	2.690	-0.012	100	258802	5.00	4.86	
9 Dichlorofluoromethane	67	2.910	2.922	-0.012	97	661752	5.00	5.16	
10 Trichlorofluoromethane	101	2.983	2.995	-0.012	97	644955	5.00	5.63	
11 Ethyl ether	59	3.221	3.227	-0.006	90	260617	4.98	5.60	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.306	3.318	-0.012	91	475780	5.00	5.80	
13 Acrolein	56	3.391	3.404	-0.013	99	246040	37.6	39.7	
14 1,1-Dichloroethene	96	3.531	3.538	-0.007	98	381987	5.00	6.47	
15 Acetone	43	3.562	3.574	-0.012	73	399124	62.6	50.7	
16 112TCTFE	101	3.574	3.580	-0.006	90	416832	5.00	6.76	
17 Iodomethane	142	3.727	3.739	-0.012	99	659779	5.00	5.59	
18 Ethyl bromide	108	3.751	3.763	-0.012	98	308544	5.07	5.73	
19 Carbon disulfide	76	3.830	3.842	-0.012	99	971022	5.00	5.96	
21 Methyl acetate	43	3.983	3.983	0.000	97	121511	5.00	5.25	
22 3-Chloro-1-propene	41	4.001	4.013	-0.012	92	520277	5.00	5.37	
23 Methylene Chloride	84	4.184	4.202	-0.018	90	360839	5.00	5.60	
* 24 t-Butyl alcohol-d10 (IS)	65	4.226	4.288	-0.062	94	141632	50.0	50.0	
25 2-Methyl-2-propanol	59	4.361	4.397	-0.036	98	122056	50.0	40.9	
26 Acrylonitrile	53	4.525	4.531	-0.006	99	286222	25.0	27.3	
27 Methyl tert-butyl ether	73	4.598	4.605	-0.007	93	857233	5.00	5.09	
28 trans-1,2-Dichloroethene	96	4.604	4.617	-0.013	99	389587	5.00	5.81	
29 Hexane	57	5.031	5.043	-0.012	90	608118	5.00	6.49	
31 1,1-Dichloroethane	63	5.269	5.275	-0.006	96	685092	5.00	5.63	
32 Isopropyl ether	45	5.324	5.330	-0.006	98	1045794	5.00	5.14	
33 2-Chloro-1,3-butadiene	53	5.379	5.385	-0.006	90	595565	5.00	5.87	
34 Tert-butyl ethyl ether	59	5.860	5.873	-0.013	96	989227	5.00	4.98	
36 2-Butanone (MEK)	43	6.068	6.080	-0.012	99	909314	62.6	66.2	
37 cis-1,2-Dichloroethene	96	6.104	6.110	-0.006	81	502705	5.00	6.73	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
38 2,2-Dichloropropane	77	6.116	6.129	-0.013	87	617539	5.00	5.84	
40 Propionitrile	54	6.165	6.177	-0.012	97	146731	37.5	40.2	
42 Methacrylonitrile	67	6.366	6.372	-0.006	90	632218	37.5	45.8	
43 Chlorobromomethane	128	6.433	6.440	-0.007	91	178398	5.00	5.53	
44 Tetrahydrofuran	71	6.445	6.452	-0.007	78	114359	25.0	28.1	
45 Chloroform	83	6.586	6.592	-0.006	93	708413	5.00	5.88	
$ 46 Dibromofluoromethane (Surr)	113	6.799	6.805	-0.006	94	625622	10.0	10.0	
47 1,1,1-Trichloroethane	97	6.817	6.818	-0.001	98	663223	5.00	5.92	
48 Cyclohexane	56	6.915	6.921	-0.006	88	712682	5.00	6.42	
51 1,1-Dichloropropene	75	7.025	7.031	-0.006	96	569543	5.00	6.03	
50 Carbon tetrachloride	117	7.025	7.031	-0.006	86	568830	5.00	5.88	
52 Isobutyl alcohol	41	7.195	7.214	-0.019	95	91900	125.1	96.6	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.250	7.263	-0.013	98	124584	10.0	10.0	
54 Benzene	78	7.287	7.293	-0.006	96	1596038	5.00	5.74	
56 1,2-Dichloroethane	62	7.354	7.366	-0.012	97	371438	5.00	4.93	
57 Tert-amyl methyl ether	73	7.482	7.482	0.000	99	867879	5.00	4.70	
* 58 Fluorobenzene (IS)	96	7.689	7.695	-0.006	99	2474068	10.0	10.0	
59 n-Heptane	43	7.701	7.708	-0.007	90	588877	5.00	6.12	
60 n-Butanol	56	8.073	8.086	-0.013	84	180437	250.2	204.3	
61 Trichloroethene	95	8.171	8.177	-0.006	98	513585	5.00	6.87	
62 Methylcyclohexane	83	8.482	8.488	-0.006	92	810153	5.00	6.52	
63 1,2-Dichloropropane	63	8.506	8.506	0.000	96	387879	5.00	5.68	
64 Methyl methacrylate	69	8.585	8.585	0.000	87	169987	5.00	6.27	
66 Dibromomethane	93	8.610	8.616	-0.006	95	178208	5.00	5.34	
65 1,4-Dioxane	88	8.616	8.634	-0.018	28	15435	125.1	68.3	
68 Dichlorobromomethane	83	8.847	8.854	-0.007	99	452726	5.00	5.47	
69 2-Nitropropane	41	9.116	9.116	0.000	97	37165	5.00	4.79	
72 1-Bromo-2-chloroethane	63	9.244	9.244	0.000	98	381411	5.00	5.69	
73 cis-1,3-Dichloropropene	75	9.396	9.396	0.000	97	554755	5.00	5.33	
74 4-Methyl-2-pentanone (MIBK)	43	9.567	9.567	0.000	95	2566765	62.6	74.2	
$ 75 Toluene-d8 (Surr)	98	9.707	9.707	0.000	93	2594530	10.0	10.2	
76 Toluene	92	9.780	9.786	-0.006	98	1048777	5.00	5.54	
78 trans-1,3-Dichloropropene	75	10.036	10.042	-0.006	91	453218	5.00	5.19	
79 Ethyl methacrylate	69	10.097	10.103	-0.006	88	356623	5.00	4.89	
80 1,1,2-Trichloroethane	97	10.244	10.244	0.000	90	268969	5.00	5.32	
81 Tetrachloroethene	166	10.335	10.335	0.000	98	963600	5.00	10.7	
82 1,3-Dichloropropane	76	10.408	10.408	0.000	87	450067	5.00	5.24	
83 2-Hexanone	43	10.457	10.457	0.000	95	1882925	62.6	77.7	
85 Chlorodibromomethane	129	10.622	10.622	0.000	90	310566	5.00	5.04	
86 Ethylene Dibromide	107	10.731	10.737	-0.006	98	248930	5.00	5.11	
* 87 Chlorobenzene-d5 (IS)	117	11.164	11.164	0.000	85	1976298	10.0	10.0	
88 1-Chlorohexane	91	11.170	11.170	0.000	95	612013	5.00	5.52	
90 Chlorobenzene	112	11.188	11.189	-0.001	96	1132010	5.00	5.39	
91 1,1,1,2-Tetrachloroethane	131	11.274	11.274	0.000	96	388094	5.00	5.30	
92 Ethylbenzene	91	11.274	11.274	0.000	98	2022784	5.00	5.54	
93 m-Xylene & p-Xylene	106	11.390	11.390	0.000	100	1600382	10.0	11.1	
94 o-Xylene	106	11.719	11.719	0.000	95	768588	5.00	5.40	
95 Styrene	104	11.731	11.731	0.000	95	1229846	5.00	5.36	
96 Bromoform	173	11.896	11.896	0.000	98	176758	5.00	4.79	
97 Isopropylbenzene	105	12.018	12.018	0.000	95	2100558	5.00	5.59	
$ 100 4-Bromofluorobenzene (Surr)	95	12.164	12.164	0.000	94	975043	10.0	9.99	
101 1,1,2,2-Tetrachloroethane	83	12.261	12.262	-0.001	94	317428	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
102 Bromobenzene	156	12.280	12.280	0.000	93	469941	5.00	5.49	
103 trans-1,4-Dichloro-2-butene	53	12.286	12.286	0.000	90	301391	25.0	24.1	
104 1,2,3-Trichloropropane	110	12.310	12.310	0.000	83	85732	5.00	4.99	
105 N-Propylbenzene	91	12.347	12.347	0.000	99	2395880	5.00	5.77	
106 2-Chlorotoluene	126	12.426	12.426	0.000	97	468548	5.00	5.50	
107 1,3,5-Trimethylbenzene	105	12.481	12.481	0.000	94	1700136	5.00	5.60	
108 4-Chlorotoluene	126	12.517	12.518	-0.001	97	479356	5.00	5.51	
109 tert-Butylbenzene	134	12.725	12.725	0.000	92	380350	5.00	5.72	
110 Pentachloroethane	167	12.755	12.755	0.000	92	281394	5.00	5.24	
111 1,2,4-Trimethylbenzene	105	12.767	12.768	-0.001	96	1688963	5.00	5.43	
112 sec-Butylbenzene	105	12.889	12.889	0.000	94	2237466	5.00	5.83	
113 1,3-Dichlorobenzene	146	12.987	12.987	0.000	98	909662	5.00	5.27	
114 4-Isopropyltoluene	119	12.993	12.993	0.000	97	1921069	5.00	5.66	
* 115 1,4-Dichlorobenzene-d4	152	13.042	13.042	0.000	93	1129921	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.060	13.060	0.000	95	916066	5.00	5.19	
117 1,2,3-Trimethylbenzene	120	13.066	13.066	0.000	98	719089	5.00	5.23	
118 Benzyl chloride	126	13.133	13.133	0.000	98	127534	5.00	4.99	
119 n-Butylbenzene	92	13.286	13.286	0.000	97	881339	5.00	5.56	
120 1,2-Dichlorobenzene	146	13.322	13.316	0.006	99	816406	5.00	5.18	
122 1,2-Dibromo-3-Chloropropane	155	13.859	13.859	0.000	90	43909	5.00	4.78	
123 1,3,5-Trichlorobenzene	180	13.987	13.987	0.000	98	663882	5.00	5.26	
124 1,2,4-Trichlorobenzene	180	14.407	14.407	0.000	94	554431	5.00	5.20	
125 Hexachlorobutadiene	225	14.493	14.493	0.000	96	235505	5.00	5.09	
126 Naphthalene	128	14.590	14.590	0.000	97	994579	5.00	4.90	
127 1,2,3-Trichlorobenzene	180	14.730	14.731	-0.001	95	467363	5.00	5.07	
134 Isopropyl alcohol	45		0.000				ND	ND	
204 Pentane	43		0.000				ND	ND	
144 2-ethoxy-2-methyl butane	1		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
137 2-Methylnaphthalene	142		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MSV_LCS_EE_00001	Amount Added:	5.38	Units: uL	
MSV_Q_ETBR_00009	Amount Added:	5.38	Units: uL	
MSV_LCS_Penta_00009	Amount Added:	5.38	Units: uL	
MSV_LCS_VOC#1_00029	Amount Added:	5.38	Units: uL	
MSV_LCS_ACROL_00032	Amount Added:	5.38	Units: uL	
MSV_QC_Gas826_00052	Amount Added:	5.38	Units: uL	
MSV_LLcentISS_00002	Amount Added:	5.00	Units: uL	Run Reagent

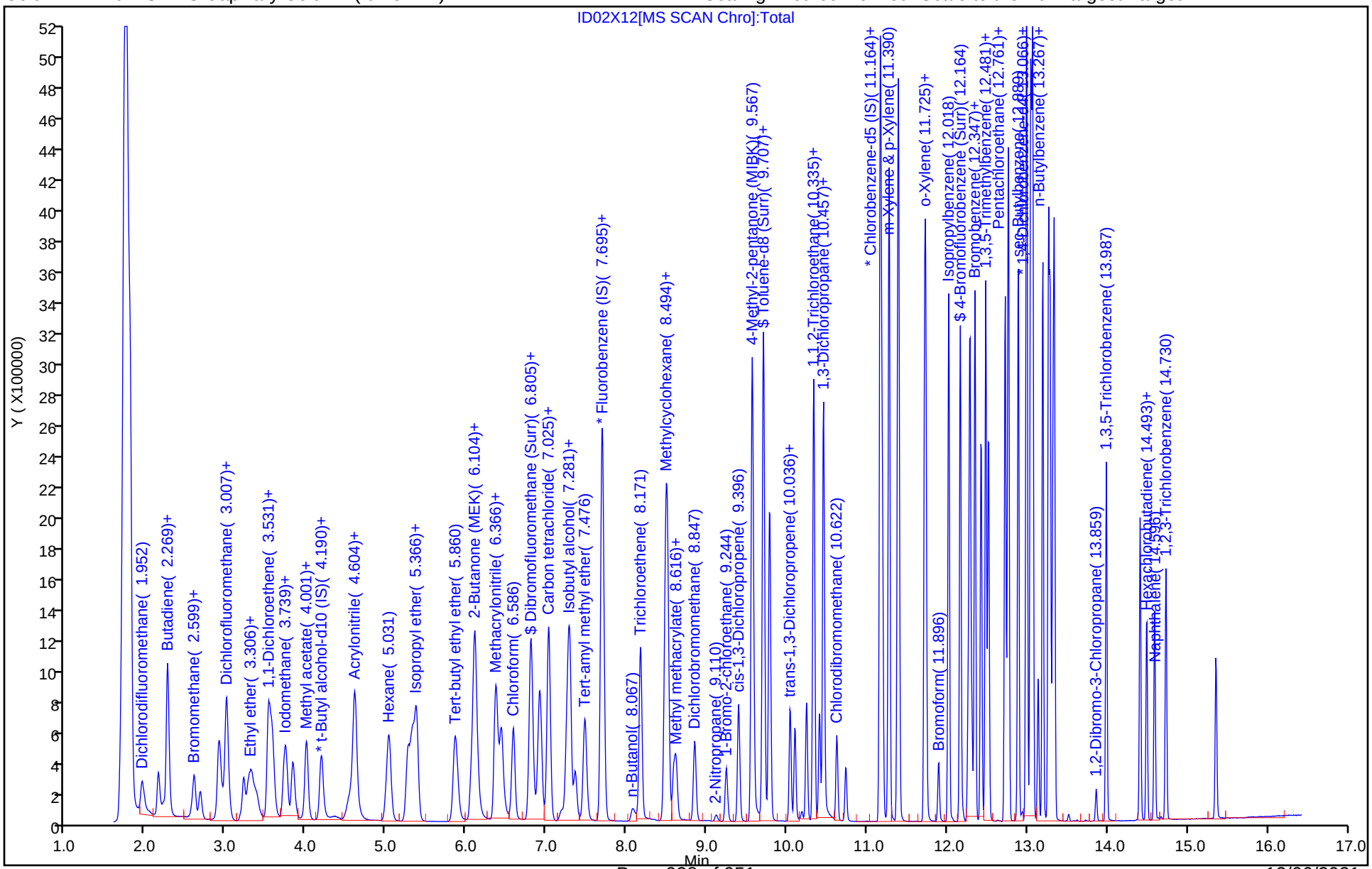
Report Date: 02-Dec-2021 18:52:42 Chrom Revision: 2.3 15-Nov-2021 20:34:30

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X12.D

Injection Date:	02-Dec-2021 14:16:30	Instrument ID:	19930	Operator ID:	KNK41612
Lims ID:	410-64660-A-6 MSD			Worklist Smp#:	13
Client ID:	HD-COD-SW-15-0/1-0 MSD				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\ID02X12.D				
Lims ID:	410-64660-A-6 MSD				
Client ID:	HD-COD-SW-15-0/1-0 MSD				
Sample Type:	MSD				
Inject. Date:	02-Dec-2021 14:16:30	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0045241-013				
Operator ID:	KNK41612	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20211202-45342.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	02-Dec-2021 18:51:26	Calib Date:	24-Aug-2021 02:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20210823-37607.b\IG23I07.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1601				

First Level Reviewer: beckerk Date: 02-Dec-2021 18:42:49

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.0	100.38
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.0	99.92
$ 75 Toluene-d8 (Surr)	10.0	10.2	101.59
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.99	99.89

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-64660-1

SDG No.:

Instrument ID: 16334 Start Date: 07/27/2021 15:41

Analysis Batch Number: 153227 End Date: 07/28/2021 01:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-153227/1		07/27/2021 15:41	1	GL27T02.D	R-624SilMS 30m 0.25(mm)
IC 410-153227/3		07/27/2021 16:17	1		R-624SilMS 30m 0.25(mm)
IC 410-153227/4		07/27/2021 16:39	1		R-624SilMS 30m 0.25(mm)
IC 410-153227/5		07/27/2021 17:01	1		R-624SilMS 30m 0.25(mm)
IC 410-153227/6		07/27/2021 17:23	1		R-624SilMS 30m 0.25(mm)
IC 410-153227/7		07/27/2021 17:45	1		R-624SilMS 30m 0.25(mm)
IC 410-153227/8		07/27/2021 18:07	1		R-624SilMS 30m 0.25(mm)
IC 410-153227/9		07/27/2021 18:29	1		R-624SilMS 30m 0.25(mm)
IC 410-153227/12		07/27/2021 19:35	1	GL27X12.D	R-624SilMS 30m 0.25(mm)
ICIS 410-153227/13		07/27/2021 19:57	1	GL27X13.D	R-624SilMS 30m 0.25(mm)
IC 410-153227/14		07/27/2021 20:19	1	GL27X14.D	R-624SilMS 30m 0.25(mm)
IC 410-153227/15		07/27/2021 20:41	1	GL27X15.D	R-624SilMS 30m 0.25(mm)
IC 410-153227/16		07/27/2021 21:03	1	GL27X16.D	R-624SilMS 30m 0.25(mm)
IC 410-153227/17		07/27/2021 21:25	1	GL27X17.D	R-624SilMS 30m 0.25(mm)
IC 410-153227/18		07/27/2021 21:47	1	GL27X18.D	R-624SilMS 30m 0.25(mm)
ICV 410-153227/19		07/27/2021 22:09	1	GL27X19.D	R-624SilMS 30m 0.25(mm)
ICV 410-153227/10		07/28/2021 01:07	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-64660-1

SDG No.:

Instrument ID: 19930 Start Date: 08/23/2021 20:56

Analysis Batch Number: 163707 End Date: 08/24/2021 03:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-163707/1		08/23/2021 20:56	1	IG23T01.D	R-624SilMS 30m 0.25(mm)
IC 410-163707/3		08/23/2021 21:31	1		R-624SilMS 30m 0.25(mm)
IC 410-163707/4		08/23/2021 21:52	1		R-624SilMS 30m 0.25(mm)
IC 410-163707/5		08/23/2021 22:14	1		R-624SilMS 30m 0.25(mm)
IC 410-163707/6		08/23/2021 22:35	1		R-624SilMS 30m 0.25(mm)
IC 410-163707/7		08/23/2021 22:57	1		R-624SilMS 30m 0.25(mm)
IC 410-163707/8		08/23/2021 23:18	1		R-624SilMS 30m 0.25(mm)
IC 410-163707/9		08/23/2021 23:40	1		R-624SilMS 30m 0.25(mm)
ICV 410-163707/10		08/24/2021 00:02	1		R-624SilMS 30m 0.25(mm)
IC 410-163707/12		08/24/2021 00:45	1	IG23I01.D	R-624SilMS 30m 0.25(mm)
ICIS 410-163707/13		08/24/2021 01:06	1	IG23I02.D	R-624SilMS 30m 0.25(mm)
IC 410-163707/14		08/24/2021 01:27	1	IG23I03.D	R-624SilMS 30m 0.25(mm)
IC 410-163707/15		08/24/2021 01:48	1	IG23I04.D	R-624SilMS 30m 0.25(mm)
IC 410-163707/16		08/24/2021 02:09	1	IG23I05.D	R-624SilMS 30m 0.25(mm)
IC 410-163707/17		08/24/2021 02:30	1	IG23I06.D	R-624SilMS 30m 0.25(mm)
IC 410-163707/18		08/24/2021 02:52	1	IG23I07.D	R-624SilMS 30m 0.25(mm)
ICV 410-163707/19		08/24/2021 03:13	1	IG23V01.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-64660-1

SDG No.:

Instrument ID: 19930 Start Date: 12/02/2021 10:06

Analysis Batch Number: 200572 End Date: 12/02/2021 19:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-200572/1		12/02/2021 10:06	1	ID02T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-200572/3		12/02/2021 10:44	1	ID02X02.D	R-624SilMS 30m 0.25(mm)
LCS 410-200572/4		12/02/2021 11:05	1	ID02X03.D	R-624SilMS 30m 0.25(mm)
LCSD 410-200572/5		12/02/2021 11:26	1	ID02X04.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		12/02/2021 11:48	1		R-624SilMS 30m 0.25(mm)
MB 410-200572/8		12/02/2021 12:30	1	ID02X07.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		12/02/2021 12:51	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/02/2021 13:12	1		R-624SilMS 30m 0.25(mm)
410-64660-6	HD-COD-SW-15-0/1-0	12/02/2021 13:34	1	ID02X10.D	R-624SilMS 30m 0.25(mm)
410-64660-6 MS	HD-COD-SW-15-0/1-0 MS MS	12/02/2021 13:55	1	ID02X11.D	R-624SilMS 30m 0.25(mm)
410-64660-6 MSD	HD-COD-SW-15-0/1-0 MSD MSD	12/02/2021 14:16	1	ID02X12.D	R-624SilMS 30m 0.25(mm)
410-64660-1	HD-COD-SW-6-0/1-0	12/02/2021 14:58	1	ID02X14.D	R-624SilMS 30m 0.25(mm)
410-64660-2	HD-COD-SW-7-0/1-0	12/02/2021 15:19	1	ID02X15.D	R-624SilMS 30m 0.25(mm)
410-64660-3	HD-COD-SW-8-0/1-0	12/02/2021 15:41	1	ID02X16.D	R-624SilMS 30m 0.25(mm)
410-64660-4	HD-COD-SW-9-0/1-0	12/02/2021 16:02	1	ID02X17.D	R-624SilMS 30m 0.25(mm)
410-64660-5	HD-COD-SW-13-0/1-0	12/02/2021 16:23	1	ID02X18.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		12/02/2021 16:44	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/02/2021 17:06	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/02/2021 17:27	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/02/2021 17:48	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/02/2021 18:09	20		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/02/2021 18:30	200		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/02/2021 18:51	50		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/02/2021 19:13	500		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/02/2021 19:34	100		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/02/2021 19:55	1000		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-64660-1

SDG No.:

Instrument ID: 19930 Start Date: 12/03/2021 09:12

Analysis Batch Number: 201082 End Date: 12/03/2021 20:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-201082/1		12/03/2021 09:12	1	ID03T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-201082/3		12/03/2021 09:48	1	ID03X02.D	R-624SilMS 30m 0.25(mm)
CCV 410-201082/4		12/03/2021 10:10	1		R-624SilMS 30m 0.25(mm)
LCS 410-201082/5		12/03/2021 10:31	1	ID03X04.D	R-624SilMS 30m 0.25(mm)
LCSD 410-201082/6		12/03/2021 10:52	1	ID03X05.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		12/03/2021 11:13	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/03/2021 11:34	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/03/2021 11:56	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/03/2021 12:17	1		R-624SilMS 30m 0.25(mm)
MB 410-201082/11		12/03/2021 12:38	1	ID03X10.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		12/03/2021 12:59	1		R-624SilMS 30m 0.25(mm)
410-64660-14	HD-QC1-0/1-2	12/03/2021 13:20	1	ID03X12.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		12/03/2021 13:42	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/03/2021 14:03	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/03/2021 14:24	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/03/2021 14:45	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/03/2021 15:06	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/03/2021 15:28	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/03/2021 15:49	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/03/2021 16:10	1		R-624SilMS 30m 0.25(mm)
410-64660-7	HD-COD-SW-16-0/1-0	12/03/2021 16:31	1	ID03X21.D	R-624SilMS 30m 0.25(mm)
410-64660-8	HD-COD-SW-17-0/1-0	12/03/2021 16:53	1	ID03X22.D	R-624SilMS 30m 0.25(mm)
410-64660-9	HD-COD-SW-26-0/1-0	12/03/2021 17:14	1	ID03X23.D	R-624SilMS 30m 0.25(mm)
410-64660-10	HD-COD-SW-27-0/1-0	12/03/2021 17:35	1	ID03X24.D	R-624SilMS 30m 0.25(mm)
410-64660-11	HD-COD-SW-28-0/1-0	12/03/2021 17:56	1	ID03X25.D	R-624SilMS 30m 0.25(mm)
410-64660-12	HD-COD-SW-29-0/1-0	12/03/2021 18:17	1	ID03X26.D	R-624SilMS 30m 0.25(mm)
410-64660-13	HD-QC1-0/1-1	12/03/2021 18:38	1	ID03X27.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		12/03/2021 19:00	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/03/2021 19:21	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/03/2021 19:42	500		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/03/2021 20:03	5000		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-64660-1

SDG No.:

Instrument ID: 16334 Start Date: 12/04/2021 09:25

Analysis Batch Number: 201490 End Date: 12/04/2021 19:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-201490/1		12/04/2021 09:25	1	GD04T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-201490/3		12/04/2021 10:00	1	GD04X02.D	R-624SilMS 30m 0.25(mm)
LCS 410-201490/4		12/04/2021 10:22	1	GD04X03.D	R-624SilMS 30m 0.25(mm)
LCSD 410-201490/5		12/04/2021 10:44	1	GD04X04.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		12/04/2021 11:07	1		R-624SilMS 30m 0.25(mm)
MB 410-201490/8		12/04/2021 11:51	1	GD04X07.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		12/04/2021 12:13	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/04/2021 13:19	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/04/2021 13:41	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/04/2021 15:11	20		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/04/2021 15:33	20		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/04/2021 15:55	20		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/04/2021 16:18	200		R-624SilMS 30m 0.25(mm)
410-64660-8 DL	HD-COD-SW-17-0/1-0 DL	12/04/2021 17:24	10	GD04X22.D	R-624SilMS 30m 0.25(mm)
410-64660-13 DL	HD-QC1-0/1-1 DL	12/04/2021 17:46	10	GD04X23.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		12/04/2021 19:14	50		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/04/2021 19:36	5		R-624SilMS 30m 0.25(mm)
ZZZZZ		12/04/2021 19:58	50		R-624SilMS 30m 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-64660-1

SDG No.:

Batch Number: 153227 Batch Start Date: 07/27/21 15:41 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_29_826ISS 00020	MSV_LCS_ACROL 00013	MSV_LCS_Penta 00005
BFB 410-153227/1		8260D		1 uL	1 uL				
IC 410-153227/12		8260D		25 mL	25 mL	2602	1 uL		
ICIS 410-153227/13		8260D		25 mL	25 mL	2602	1 uL		
IC 410-153227/14		8260D		25 mL	25 mL	2602	1 uL		
IC 410-153227/15		8260D		25 mL	25 mL	2602	1 uL		
IC 410-153227/16		8260D		25 mL	25 mL	2602	1 uL		
IC 410-153227/17		8260D		25 mL	25 mL	2602	1 uL		
IC 410-153227/18		8260D		25 mL	25 mL	2602	1 uL		
ICV 410-153227/19		8260D		25 mL	25 mL	2602	1 uL	12.5 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_VOC#1 00011	MSV_LL_#1_826 00011	MSV_LL_#2_826 00011	MSV_LL_GAS826 00018	MSV_Q_EE 00004	MSV_Q_ETBR 00008
BFB 410-153227/1		8260D							
IC 410-153227/12		8260D			25 uL	25 uL	25 uL		
ICIS 410-153227/13		8260D			10 uL	10 uL	10 uL		
IC 410-153227/14		8260D			5 uL	5 uL	5 uL		
IC 410-153227/15		8260D			2 uL	2 uL	2 uL		
IC 410-153227/16		8260D			2 uL	2 uL	2 uL		
IC 410-153227/17		8260D			2 uL	2 uL	2 uL		
IC 410-153227/18		8260D			2 uL	2 uL	2 uL		
ICV 410-153227/19		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.: 410-64660-1

SDG No.:

Batch Number: 153227 Batch Start Date: 07/27/21 15:41 Batch Analyst: Sposito, Kevin A

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_QC_Gas826 00018	MSV_V_BFB 00006				
BFB 410-153227/1		8260D			1 uL				
IC 410-153227/12		8260D							
ICIS 410-153227/13		8260D							
IC 410-153227/14		8260D							
IC 410-153227/15		8260D							
IC 410-153227/16		8260D							
IC 410-153227/17		8260D							
IC 410-153227/18		8260D							
ICV 410-153227/19		8260D		12.5 uL					

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-64660-1

SDG No.:

Batch Number: 163707 Batch Start Date: 08/23/21 20:56 Batch Analyst: Campbell, Miranda E

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Lot#Vial	MSV_LCS_ACROL 00017	MSV_LCS_Penta 00006	MSV_LCS_VOC#1 00015
BFB 410-163707/1		8260D		1 uL	1 uL				
IC 410-163707/12		8260D		25 mL	25 mL	2602			
ICIS 410-163707/13		8260D		25 mL	25 mL	2602			
IC 410-163707/14		8260D		25 mL	25 mL	2602			
IC 410-163707/15		8260D		25 mL	25 mL	2602			
IC 410-163707/16		8260D		25 mL	25 mL	2602			
IC 410-163707/17		8260D		25 mL	25 mL	2602			
IC 410-163707/18		8260D		25 mL	25 mL	2602			
ICV 410-163707/19		8260D		25 mL	25 mL	2602	12.5 uL	12.5 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_#1_826 00015	MSV_LL_#2_826 00015	MSV_LL_GAS826 00027	MSV_LLcentISS 00001	MSV_Q_EE 00004	MSV_Q_ETBR 00008
BFB 410-163707/1		8260D							
IC 410-163707/12		8260D		25 uL	25 uL	25 uL	5 uL		
ICIS 410-163707/13		8260D		10 uL	10 uL	10 uL	5 uL		
IC 410-163707/14		8260D		5 uL	5 uL	5 uL	5 uL		
IC 410-163707/15		8260D		2 uL	2 uL	2 uL	5 uL		
IC 410-163707/16		8260D		2 uL	2 uL	2 uL	5 uL		
IC 410-163707/17		8260D		2 uL	2 uL	2 uL	5 uL		
IC 410-163707/18		8260D		2 uL	2 uL	2 uL	5 uL		
ICV 410-163707/19		8260D					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.: 410-64660-1

SDG No.:

Batch Number: 163707 Batch Start Date: 08/23/21 20:56 Batch Analyst: Campbell, Miranda E

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_QC_Gas826 00026	MSV_V_BFB 00006				
BFB 410-163707/1		8260D			1 uL				
IC 410-163707/12		8260D							
ICIS 410-163707/13		8260D							
IC 410-163707/14		8260D							
IC 410-163707/15		8260D							
IC 410-163707/16		8260D							
IC 410-163707/17		8260D							
IC 410-163707/18		8260D							
ICV 410-163707/19		8260D		12.5 uL					

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-64660-1

SDG No.:

Batch Number: 200572 Batch Start Date: 12/02/21 10:06 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 410-200572/1		8260D		1 uL	1 uL				
CCVIS 410-200572/3		8260D		25 mL	25 mL				2608
LCS 410-200572/4		8260D		25 mL	25 mL				2608
LCSD 410-200572/5		8260D		25 mL	25 mL				2608
MB 410-200572/8		8260D		25 mL	25 mL				2608
410-64660-A-6	HD-COD-SW-15-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-64660-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-64660-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-64660-A-1	HD-COD-SW-6-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-64660-A-2	HD-COD-SW-7-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-64660-A-3	HD-COD-SW-8-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-64660-A-4	HD-COD-SW-9-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-64660-A-5	HD-COD-SW-13-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_ACROL 00032	MSV_LCS_EE 00001	MSV_LCS_Penta 00009	MSV_LCS_VOC#1 00029	MSV_LL_#1_826 00025	MSV_LL_#2_826 00029
BFB 410-200572/1		8260D							
CCVIS 410-200572/3		8260D						25 uL	25 uL
LCS 410-200572/4		8260D		12.5 uL	12.5 uL	12.5 uL	12.5 uL		
LCSD 410-200572/5		8260D		12.5 uL	12.5 uL	12.5 uL	12.5 uL		
MB 410-200572/8		8260D							
410-64660-A-6	HD-COD-SW-15-0/1-0	8260D	T						
410-64660-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	T	5.38 uL	5.38 uL	5.38 uL	5.38 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.: 410-64660-1

SDG No.:

Batch Number: 200572 Batch Start Date: 12/02/21 10:06 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_ACROL 00032	MSV_LCS_EE 00001	MSV_LCS_Penta 00009	MSV_LCS_VOC#1 00029	MSV_LL_#1_826 00025	MSV_LL_#2_826 00029
410-64660-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	T	5.38 uL	5.38 uL	5.38 uL	5.38 uL		
410-64660-A-1	HD-COD-SW-6-0/1-0	8260D	T						
410-64660-A-2	HD-COD-SW-7-0/1-0	8260D	T						
410-64660-A-3	HD-COD-SW-8-0/1-0	8260D	T						
410-64660-A-4	HD-COD-SW-9-0/1-0	8260D	T						
410-64660-A-5	HD-COD-SW-13-0/1-0	8260D	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_GAS826 00052	MSV_LLcentISS 00002	MSV_Q_ETBR 00009	MSV_QC_Gas826 00052	MSV_V_BFB 00006	
BFB 410-200572/1		8260D						1 uL	
CCVIS 410-200572/3		8260D		25 uL	5 uL				
LCS 410-200572/4		8260D			5 uL	12.5 uL	12.5 uL		
LCSD 410-200572/5		8260D			5 uL	12.5 uL	12.5 uL		
MB 410-200572/8		8260D			5 uL				
410-64660-A-6	HD-COD-SW-15-0/1-0	8260D	T		5 uL				
410-64660-A-6 MS	HD-COD-SW-15-0/1-0 MS	8260D	T		5 uL	5.38 uL	5.38 uL		
410-64660-A-6 MSD	HD-COD-SW-15-0/1-0 MSD	8260D	T		5 uL	5.38 uL	5.38 uL		
410-64660-A-1	HD-COD-SW-6-0/1-0	8260D	T		5 uL				
410-64660-A-2	HD-COD-SW-7-0/1-0	8260D	T		5 uL				
410-64660-A-3	HD-COD-SW-8-0/1-0	8260D	T		5 uL				
410-64660-A-4	HD-COD-SW-9-0/1-0	8260D	T		5 uL				
410-64660-A-5	HD-COD-SW-13-0/1-0	8260D	T		5 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-64660-1

SDG No.:

Batch Number: 200572 Batch Start Date: 12/02/21 10:06 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.: 410-64660-1

SDG No.:

Batch Number: 201082 Batch Start Date: 12/03/21 09:12 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 410-201082/1		8260D		1 uL	1 uL				
CCVIS 410-201082/3		8260D		25 mL	25 mL				2608
LCS 410-201082/5		8260D		25 mL	25 mL				2608
LCSD 410-201082/6		8260D		25 mL	25 mL				2608
MB 410-201082/11		8260D		25 mL	25 mL				2608
410-64660-A-14	HD-QC1-0/1-2	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-64660-A-7	HD-COD-SW-16-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-64660-A-8	HD-COD-SW-17-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-64660-A-9	HD-COD-SW-26-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-64660-A-10	HD-COD-SW-27-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-64660-A-11	HD-COD-SW-28-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-64660-A-12	HD-COD-SW-29-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-64660-A-13	HD-QC1-0/1-1	8260D	T	25 mL	25 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_ACROL 00032	MSV_LCS_EE 00001	MSV_LCS_Penta 00009	MSV_LCS_VOC#1 00029	MSV_LL_#1_826 00025	MSV_LL_#2_826 00029
BFB 410-201082/1		8260D							
CCVIS 410-201082/3		8260D						25 uL	25 uL
LCS 410-201082/5		8260D		12.5 uL	12.5 uL	12.5 uL	12.5 uL		
LCSD 410-201082/6		8260D		12.5 uL	12.5 uL	12.5 uL	12.5 uL		
MB 410-201082/11		8260D							
410-64660-A-14	HD-QC1-0/1-2	8260D	T						
410-64660-A-7	HD-COD-SW-16-0/1-0	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.: 410-64660-1

SDG No.:

Batch Number: 201082 Batch Start Date: 12/03/21 09:12 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LCS_ACROL 00032	MSV_LCS_EE 00001	MSV_LCS_Penta 00009	MSV_LCS_VOC#1 00029	MSV_LL_#1_826 00025	MSV_LL_#2_826 00029
410-64660-A-8	HD-COD-SW-17-0/1-0	8260D	T						
410-64660-A-9	HD-COD-SW-26-0/1-0	8260D	T						
410-64660-A-10	HD-COD-SW-27-0/1-0	8260D	T						
410-64660-A-11	HD-COD-SW-28-0/1-0	8260D	T						
410-64660-A-12	HD-COD-SW-29-0/1-0	8260D	T						
410-64660-A-13	HD-QC1-0/1-1	8260D	T						

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_GAS826 00052	MSV_LLcentISS 00002	MSV_Q_ETBR 00009	MSV_QC_Gas826 00052	MSV_V_BFB 00006	
BFB 410-201082/1		8260D						1 uL	
CCVIS 410-201082/3		8260D		25 uL	5 uL				
LCS 410-201082/5		8260D			5 uL	12.5 uL	12.5 uL		
LCSD 410-201082/6		8260D			5 uL	12.5 uL	12.5 uL		
MB 410-201082/11		8260D			5 uL				
410-64660-A-14	HD-QC1-0/1-2	8260D	T		5 uL				
410-64660-A-7	HD-COD-SW-16-0/1-0	8260D	T		5 uL				
410-64660-A-8	HD-COD-SW-17-0/1-0	8260D	T		5 uL				
410-64660-A-9	HD-COD-SW-26-0/1-0	8260D	T		5 uL				
410-64660-A-10	HD-COD-SW-27-0/1-0	8260D	T		5 uL				
410-64660-A-11	HD-COD-SW-28-0/1-0	8260D	T		5 uL				
410-64660-A-12	HD-COD-SW-29-0/1-0	8260D	T		5 uL				
410-64660-A-13	HD-QC1-0/1-1	8260D	T		5 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-64660-1

SDG No.:

Batch Number: 201082 Batch Start Date: 12/03/21 09:12 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.: 410-64660-1

SDG No.:

Batch Number: 201490 Batch Start Date: 12/04/21 09:25 Batch Analyst: Johnson, Sara E

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-201490/1		8260D		1 uL	1 uL				
CCVIS 410-201490/3		8260D		25 mL	25 mL				2617
LCS 410-201490/4		8260D		25 mL	25 mL				2617
LCSD 410-201490/5		8260D		25 mL	25 mL				2617
MB 410-201490/8		8260D		25 mL	25 mL				2617
410-64660-B-8	HD-COD-SW-17-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-64660-B-13	HD-QC1-0/1-1	8260D	T	25 mL	25 mL	<2 SU	N	N	2617

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_29_826ISS 00026	MSV_LCS_ACROL 00032	MSV_LCS_EE 00001	MSV_LCS_Penta 00009	MSV_LCS_VOC#1 00029	MSV_LL_#1_826 00025
BFB 410-201490/1		8260D							
CCVIS 410-201490/3		8260D		1 uL					20 uL
LCS 410-201490/4		8260D		1 uL	12.5 uL	12.5 uL	12.5 uL	12.5 uL	
LCSD 410-201490/5		8260D		1 uL	12.5 uL	12.5 uL	12.5 uL	12.5 uL	
MB 410-201490/8		8260D		1 uL					
410-64660-B-8	HD-COD-SW-17-0/1-0	8260D	T	1 uL					
410-64660-B-13	HD-QC1-0/1-1	8260D	T	1 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_#2_826 00029	MSV_LL_GAS826 00052	MSV_Q_ETBR 00008	MSV_QC_Gas826 00052	MSV_V_BFB 00006	
BFB 410-201490/1		8260D						1 uL	
CCVIS 410-201490/3		8260D		20 uL	20 uL				
LCS 410-201490/4		8260D				12.5 uL	12.5 uL		
LCSD 410-201490/5		8260D				12.5 uL	12.5 uL		
MB 410-201490/8		8260D							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-64660-1

SDG No.:

Batch Number: 201490 Batch Start Date: 12/04/21 09:25 Batch Analyst: Johnson, Sara E

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_LL_#2_826 00029	MSV_LL_GAS826 00052	MSV_Q_ETBR 00008	MSV_QC_Gas826 00052	MSV_V_BFB 00006	
410-64660-B-8	HD-COD-SW-17-0/1-0	8260D	T						
410-64660-B-13	HD-QC1-0/1-1	8260D	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Environmen[t]/Chain of Custody

410-64660 Chain of Custody

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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. #: 10012.47		
Sampler: Casey Littlefield / Erin Peeling	PWSID #: N/A		
Phone #: (717) 901-8176 / (717) 756-1246	Quote #:		
State where samples were collected: York, PA	For Compliance: Yes ☐ No ☑		

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Tissue	Potable Water	Ground	NPDES	Surface	Other:	Total # of Containers	Analyses Requested: Aqueous VOCs via 8260D (low level - 25 ml purge)	Preservation Codes: H	Remarks
HD-COD-SW-6-0/1-0	11/23/21	1000	X					X					3	X		
HD-COD-SW-7-0/1-0		1040	X					X					3	X		
HD-COD-SW-8-0/1-0		0855	X					X					3	X		
HD-COD-SW-9-0/1-0		1150	X					X					3	X		
HD-COD-SW-13-0/1-0		0910	X					X					3	X		
HD-COD-SW-15-0/1-0		1105	X					X					3	X		
HD-COD-SW-15-0/1-0 MS		1105	X					X					3	X		
HD-COD-SW-15-0/1-0 MSD		1105	X					X					3	X		
HD-COD-SW-16-0/1-0		0930	X					X					3	X		
HD-COD-SW-17-0/1-0		0940	X					X					3	X		

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address:

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
	11/23/21	1250		11/23/21	1250
	11/23/21	1335		11/23/21	1335
	11/23/21	1754			
			AP 13140	11/23/21 (3)	18:34
				11/23/21	~~18:34~~

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.6 °C

Environmental Analysis Request/Chain of Custody

2 of 2

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. #: 10012.47		
Sampler: Casey Littlefield / Erin Peeling	PWSID #: N/A		
Phone #: (717) 901-8176 / (717) 756-1246	Quote #:		
State where samples were collected: York, PA	For Compliance: Yes ☐ No ☑		

Sample Identification	Collection Date	Collection Time	Grab	Composite	Matrix: Soil	Sediment	Tissue	Water: Potable	Ground	Surface	NPDES	Other: Trip Blank	Total # of Containers	Analyses Requested: Aqueous VOCs via 8260D (low level - 25 ml purge)	Preservation Codes: H
HD-COD-SW-26-0/1-0	11/23/21	1025	X					X					3	X	
HD-COD-SW-27-0/1-0		1055	X					X					3	X	
HD-COD-SW-28-0/1-0		1205	X					X					3	X	
HD-COD-SW-29-0/1-0		0840	X					X					3	X	
HD-QC1-0/1-1		1200	X					X					3	X	
HD-QC1-0/1-2	↓	—	X									X	2	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:

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
	11/23/21	1250		11/23/21	1250
	11/23/21	1335		11/23/21	1335
	11/23/21	1754		Date	Time
	Date	Time		Date	Time
			AP13160	11/23/21 (3)	10:34
	Date	Time		Date	Time
				11/23/21	~~10:39~~

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.6 °C

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-64660-1

Login Number: 64660
List Number: 1
Creator: Renner, Melissa

List Source: Eurofins Lancaster Laboratories Env, 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	

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-64660-1

Login Number: 64660
List Number: 2
Creator: Cyms, Carolyn M

List Source: Eurofins Lancaster Laboratories Env, LLC

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.		