ANALYTICAL REPORT

Job Number: 410-30627-1

Job Description: fYNOP Monthly Surface Water

For:
Groundwater Sciences Corporation
2601 Market Place Street, Suite 310
Harrisburg, PA 17110-9307

Attention: Christopher O'Neil

Approved for release.
Marrissa C Williams
Project Manager
3/9/2021 3:26 PM

Marrissa C Williams, Project Manager
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03/09/2021

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
^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
410-30627-1

Receipt
The samples were received on 2/26/2021 5:02 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 0.5°C

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): HD-COD-SW-16-0/1-0 (410-30627-7). There is a time discrepancy, the COC lists a collection time of 1225, however the container lists a collection time of 1025. The sample was entered following the COC. The client was contacted and confirmed the sample collection time 10:25 is correct.

GC/MS VOA
Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-99025 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-99333 recovered above the upper control limit for 2-Hexanone. 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: 410-30627-1

Client Sample ID: HD-COD-SW-6-0/1-0 — Lab Sample ID: 410-30627-1

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

Client Sample ID: HD-COD-SW-7-0/1-0 — Lab Sample ID: 410-30627-2

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

Client Sample ID: HD-COD-SW-8-0/1-0 — Lab Sample ID: 410-30627-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.4	J	5.0	0.90	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-9-0/1-0 — Lab Sample ID: 410-30627-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.9	J	5.0	0.90	ug/L	1		8260D	Total/NA
Carbon disulfide	0.064	J	1.0	0.060	ug/L	1		8260D	Total/NA
Methylene Chloride	0.091	J	0.50	0.070	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.076	J	0.50	0.060	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-13-0/1-0 — Lab Sample ID: 410-30627-5

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
cis-1,2-Dichloroethene	0.051	J	0.50	0.050	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-15-0/1-0 — Lab Sample ID: 410-30627-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.10	J	0.50	0.060	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.064	J	0.50	0.060	ug/L	1		8260D	Total/NA
Acetone	1.2	J	5.0	0.90	ug/L	1		8260D	Total/NA
Chloroform	0.14	J	0.50	0.090	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.43	J	0.50	0.050	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.5		0.50	0.060	ug/L	1		8260D	Total/NA
Trichloroethene	0.53		0.50	0.060	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-16-0/1-0 — Lab Sample ID: 410-30627-7

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

Client Sample ID: HD-COD-SW-17-0/1-0 — Lab Sample ID: 410-30627-8

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
cis-1,2-Dichloroethene	0.051	J	0.50	0.050	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-26-0/1-0 — Lab Sample ID: 410-30627-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.4	J	5.0	0.90	ug/L	1		8260D	Total/NA
Chloroform	0.11	J	0.50	0.090	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.42	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: 410-30627-1

Client Sample ID: HD-COD-SW-27-0/1-0 — Lab Sample ID: 410-30627-10

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
Carbon disulfide	0.062	J	1.0	0.060	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.063	J	0.50	0.060	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-28-0/1-0 — Lab Sample ID: 410-30627-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.2	J	5.0	0.90	ug/L	1		8260D	Total/NA
Methylene Chloride	0.098	J	0.50	0.070	ug/L	1		8260D	Total/NA
Tetrachloroethene	0.11	J	0.50	0.060	ug/L	1		8260D	Total/NA

Client Sample ID: HD-COD-SW-29-0/1-0 — Lab Sample ID: 410-30627-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.7	J	5.0	0.90	ug/L	1		8260D	Total/NA

Client Sample ID: HD-QC1-0/1-1 — Lab Sample ID: 410-30627-13

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

Client Sample ID: HD-QC1-0/1-2 — Lab Sample ID: 410-30627-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.18	J	0.50	0.070	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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

Date Collected: 02/25/21 11:05
Date Received: 02/26/21 17:02

Lab Sample ID: 410-30627-1

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			03/03/21 15:30	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			03/03/21 15:30	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			03/03/21 15:30	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			03/03/21 15:30	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			03/03/21 15:30	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			03/03/21 15:30	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			03/03/21 15:30	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			03/03/21 15:30	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			03/03/21 15:30	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			03/03/21 15:30	1
2-Hexanone	ND		5.0	0.60	ug/L			03/03/21 15:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			03/03/21 15:30	1
Acetone	**1.5**	**J**	5.0	0.90	ug/L			03/03/21 15:30	1
Benzene	ND		0.50	0.050	ug/L			03/03/21 15:30	1
Bromochloromethane	ND		0.50	0.050	ug/L			03/03/21 15:30	1
Bromodichloromethane	ND		0.50	0.050	ug/L			03/03/21 15:30	1
Bromoform	ND		1.0	0.30	ug/L			03/03/21 15:30	1
Bromomethane	ND		0.50	0.070	ug/L			03/03/21 15:30	1
Carbon disulfide	ND		1.0	0.060	ug/L			03/03/21 15:30	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			03/03/21 15:30	1
Chlorobenzene	ND		0.50	0.060	ug/L			03/03/21 15:30	1
Chloroethane	ND		0.50	0.070	ug/L			03/03/21 15:30	1
Chloroform	ND		0.50	0.090	ug/L			03/03/21 15:30	1
Chloromethane	ND	^c	0.50	0.060	ug/L			03/03/21 15:30	1
cis-1,2-Dichloroethene	ND		0.50	0.050	ug/L			03/03/21 15:30	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			03/03/21 15:30	1
Dibromochloromethane	ND		0.50	0.070	ug/L			03/03/21 15:30	1
Ethylbenzene	ND		0.50	0.060	ug/L			03/03/21 15:30	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			03/03/21 15:30	1
Methylene Chloride	ND		0.50	0.070	ug/L			03/03/21 15:30	1
Styrene	ND		0.50	0.050	ug/L			03/03/21 15:30	1
Tetrachloroethene	ND		0.50	0.060	ug/L			03/03/21 15:30	1
Toluene	ND		0.50	0.070	ug/L			03/03/21 15:30	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			03/03/21 15:30	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			03/03/21 15:30	1
Trichloroethene	ND		0.50	0.060	ug/L			03/03/21 15:30	1
Vinyl chloride	ND		0.50	0.10	ug/L			03/03/21 15:30	1
Xylenes, Total	ND		1.0	0.15	ug/L			03/03/21 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*03/03/21 15:30*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*03/03/21 15:30*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 120*		*03/03/21 15:30*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/03/21 15:30*	*1*

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

Date Collected: 02/25/21 11:45
Date Received: 02/26/21 17:02

Lab Sample ID: 410-30627-2

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			03/03/21 15:52	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			03/03/21 15:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			03/03/21 15:52	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			03/03/21 15:52	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			03/03/21 15:52	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			03/03/21 15:52	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			03/03/21 15:52	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			03/03/21 15:52	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			03/03/21 15:52	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			03/03/21 15:52	1
2-Hexanone	ND		5.0	0.60	ug/L			03/03/21 15:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			03/03/21 15:52	1
Acetone	**1.5**	**J**	5.0	0.90	ug/L			03/03/21 15:52	1
Benzene	ND		0.50	0.050	ug/L			03/03/21 15:52	1
Bromochloromethane	ND		0.50	0.050	ug/L			03/03/21 15:52	1
Bromodichloromethane	ND		0.50	0.050	ug/L			03/03/21 15:52	1
Bromoform	ND		1.0	0.30	ug/L			03/03/21 15:52	1
Bromomethane	ND		0.50	0.070	ug/L			03/03/21 15:52	1
Carbon disulfide	ND		1.0	0.060	ug/L			03/03/21 15:52	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			03/03/21 15:52	1
Chlorobenzene	ND		0.50	0.060	ug/L			03/03/21 15:52	1
Chloroethane	ND		0.50	0.070	ug/L			03/03/21 15:52	1
Chloroform	ND		0.50	0.090	ug/L			03/03/21 15:52	1
Chloromethane	ND	^c	0.50	0.060	ug/L			03/03/21 15:52	1
cis-1,2-Dichloroethene	ND		0.50	0.050	ug/L			03/03/21 15:52	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			03/03/21 15:52	1
Dibromochloromethane	ND		0.50	0.070	ug/L			03/03/21 15:52	1
Ethylbenzene	ND		0.50	0.060	ug/L			03/03/21 15:52	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			03/03/21 15:52	1
Methylene Chloride	ND		0.50	0.070	ug/L			03/03/21 15:52	1
Styrene	ND		0.50	0.050	ug/L			03/03/21 15:52	1
Tetrachloroethene	ND		0.50	0.060	ug/L			03/03/21 15:52	1
Toluene	ND		0.50	0.070	ug/L			03/03/21 15:52	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			03/03/21 15:52	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			03/03/21 15:52	1
Trichloroethene	ND		0.50	0.060	ug/L			03/03/21 15:52	1
Vinyl chloride	ND		0.50	0.10	ug/L			03/03/21 15:52	1
Xylenes, Total	ND		1.0	0.15	ug/L			03/03/21 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*03/03/21 15:52*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*03/03/21 15:52*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*03/03/21 15:52*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/03/21 15:52*	*1*

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

Date Collected: 02/25/21 09:40
Date Received: 02/26/21 17:02

Lab Sample ID: 410-30627-3

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			03/03/21 16:14	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			03/03/21 16:14	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			03/03/21 16:14	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			03/03/21 16:14	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			03/03/21 16:14	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			03/03/21 16:14	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			03/03/21 16:14	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			03/03/21 16:14	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			03/03/21 16:14	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			03/03/21 16:14	1
2-Hexanone	ND		5.0	0.60	ug/L			03/03/21 16:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			03/03/21 16:14	1
Acetone	**1.4**	**J**	5.0	0.90	ug/L			03/03/21 16:14	1
Benzene	ND		0.50	0.050	ug/L			03/03/21 16:14	1
Bromochloromethane	ND		0.50	0.050	ug/L			03/03/21 16:14	1
Bromodichloromethane	ND		0.50	0.050	ug/L			03/03/21 16:14	1
Bromoform	ND		1.0	0.30	ug/L			03/03/21 16:14	1
Bromomethane	ND		0.50	0.070	ug/L			03/03/21 16:14	1
Carbon disulfide	ND		1.0	0.060	ug/L			03/03/21 16:14	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			03/03/21 16:14	1
Chlorobenzene	ND		0.50	0.060	ug/L			03/03/21 16:14	1
Chloroethane	ND		0.50	0.070	ug/L			03/03/21 16:14	1
Chloroform	ND		0.50	0.090	ug/L			03/03/21 16:14	1
Chloromethane	ND	^c	0.50	0.060	ug/L			03/03/21 16:14	1
cis-1,2-Dichloroethene	ND		0.50	0.050	ug/L			03/03/21 16:14	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			03/03/21 16:14	1
Dibromochloromethane	ND		0.50	0.070	ug/L			03/03/21 16:14	1
Ethylbenzene	ND		0.50	0.060	ug/L			03/03/21 16:14	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			03/03/21 16:14	1
Methylene Chloride	ND		0.50	0.070	ug/L			03/03/21 16:14	1
Styrene	ND		0.50	0.050	ug/L			03/03/21 16:14	1
Tetrachloroethene	ND		0.50	0.060	ug/L			03/03/21 16:14	1
Toluene	ND		0.50	0.070	ug/L			03/03/21 16:14	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			03/03/21 16:14	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			03/03/21 16:14	1
Trichloroethene	ND		0.50	0.060	ug/L			03/03/21 16:14	1
Vinyl chloride	ND		0.50	0.10	ug/L			03/03/21 16:14	1
Xylenes, Total	ND		1.0	0.15	ug/L			03/03/21 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*03/03/21 16:14*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*03/03/21 16:14*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 120*		*03/03/21 16:14*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*03/03/21 16:14*	*1*

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

Date Collected: 02/25/21 12:45
Date Received: 02/26/21 17:02

Lab Sample ID: 410-30627-4

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			03/03/21 23:02	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			03/03/21 23:02	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			03/03/21 23:02	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			03/03/21 23:02	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			03/03/21 23:02	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			03/03/21 23:02	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			03/03/21 23:02	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			03/03/21 23:02	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			03/03/21 23:02	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			03/03/21 23:02	1
2-Hexanone	ND	^c	5.0	0.60	ug/L			03/03/21 23:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			03/03/21 23:02	1
Acetone	**1.9**	**J**	5.0	0.90	ug/L			03/03/21 23:02	1
Benzene	ND		0.50	0.050	ug/L			03/03/21 23:02	1
Bromochloromethane	ND		0.50	0.050	ug/L			03/03/21 23:02	1
Bromodichloromethane	ND		0.50	0.050	ug/L			03/03/21 23:02	1
Bromoform	ND		1.0	0.30	ug/L			03/03/21 23:02	1
Bromomethane	ND		0.50	0.070	ug/L			03/03/21 23:02	1
Carbon disulfide	**0.064**	**J**	1.0	0.060	ug/L			03/03/21 23:02	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			03/03/21 23:02	1
Chlorobenzene	ND		0.50	0.060	ug/L			03/03/21 23:02	1
Chloroethane	ND		0.50	0.070	ug/L			03/03/21 23:02	1
Chloroform	ND		0.50	0.090	ug/L			03/03/21 23:02	1
Chloromethane	ND		0.50	0.060	ug/L			03/03/21 23:02	1
cis-1,2-Dichloroethene	ND		0.50	0.050	ug/L			03/03/21 23:02	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			03/03/21 23:02	1
Dibromochloromethane	ND		0.50	0.070	ug/L			03/03/21 23:02	1
Ethylbenzene	ND		0.50	0.060	ug/L			03/03/21 23:02	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			03/03/21 23:02	1
Methylene Chloride	**0.091**	**J**	0.50	0.070	ug/L			03/03/21 23:02	1
Styrene	ND		0.50	0.050	ug/L			03/03/21 23:02	1
Tetrachloroethene	**0.076**	**J**	0.50	0.060	ug/L			03/03/21 23:02	1
Toluene	ND		0.50	0.070	ug/L			03/03/21 23:02	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			03/03/21 23:02	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			03/03/21 23:02	1
Trichloroethene	ND		0.50	0.060	ug/L			03/03/21 23:02	1
Vinyl chloride	ND		0.50	0.10	ug/L			03/03/21 23:02	1
Xylenes, Total	ND		1.0	0.15	ug/L			03/03/21 23:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*03/03/21 23:02*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*03/03/21 23:02*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*03/03/21 23:02*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/03/21 23:02*	*1*

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

Date Collected: 02/25/21 10:00
Date Received: 02/26/21 17:02

Lab Sample ID: 410-30627-5

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			03/03/21 23:23	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			03/03/21 23:23	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			03/03/21 23:23	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			03/03/21 23:23	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			03/03/21 23:23	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			03/03/21 23:23	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			03/03/21 23:23	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			03/03/21 23:23	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			03/03/21 23:23	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			03/03/21 23:23	1
2-Hexanone	ND	^c	5.0	0.60	ug/L			03/03/21 23:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			03/03/21 23:23	1
Acetone	**1.6**	**J**	5.0	0.90	ug/L			03/03/21 23:23	1
Benzene	ND		0.50	0.050	ug/L			03/03/21 23:23	1
Bromochloromethane	ND		0.50	0.050	ug/L			03/03/21 23:23	1
Bromodichloromethane	ND		0.50	0.050	ug/L			03/03/21 23:23	1
Bromoform	ND		1.0	0.30	ug/L			03/03/21 23:23	1
Bromomethane	ND		0.50	0.070	ug/L			03/03/21 23:23	1
Carbon disulfide	ND		1.0	0.060	ug/L			03/03/21 23:23	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			03/03/21 23:23	1
Chlorobenzene	ND		0.50	0.060	ug/L			03/03/21 23:23	1
Chloroethane	ND		0.50	0.070	ug/L			03/03/21 23:23	1
Chloroform	ND		0.50	0.090	ug/L			03/03/21 23:23	1
Chloromethane	ND		0.50	0.060	ug/L			03/03/21 23:23	1
cis-1,2-Dichloroethene	**0.051**	**J**	0.50	0.050	ug/L			03/03/21 23:23	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			03/03/21 23:23	1
Dibromochloromethane	ND		0.50	0.070	ug/L			03/03/21 23:23	1
Ethylbenzene	ND		0.50	0.060	ug/L			03/03/21 23:23	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			03/03/21 23:23	1
Methylene Chloride	ND		0.50	0.070	ug/L			03/03/21 23:23	1
Styrene	ND		0.50	0.050	ug/L			03/03/21 23:23	1
Tetrachloroethene	ND		0.50	0.060	ug/L			03/03/21 23:23	1
Toluene	ND		0.50	0.070	ug/L			03/03/21 23:23	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			03/03/21 23:23	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			03/03/21 23:23	1
Trichloroethene	ND		0.50	0.060	ug/L			03/03/21 23:23	1
Vinyl chloride	ND		0.50	0.10	ug/L			03/03/21 23:23	1
Xylenes, Total	ND		1.0	0.15	ug/L			03/03/21 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*03/03/21 23:23*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*03/03/21 23:23*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*03/03/21 23:23*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/03/21 23:23*	*1*

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

Date Collected: 02/25/21 12:10
Date Received: 02/26/21 17:02

Lab Sample ID: 410-30627-6

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			03/03/21 23:44	1
1,1,1-Trichloroethane	**0.10**	**J**	0.50	0.060	ug/L			03/03/21 23:44	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			03/03/21 23:44	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			03/03/21 23:44	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			03/03/21 23:44	1
1,1-Dichloroethene	**0.064**	**J**	0.50	0.060	ug/L			03/03/21 23:44	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			03/03/21 23:44	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			03/03/21 23:44	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			03/03/21 23:44	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			03/03/21 23:44	1
2-Hexanone	ND	^c	5.0	0.60	ug/L			03/03/21 23:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			03/03/21 23:44	1
Acetone	**1.2**	**J**	5.0	0.90	ug/L			03/03/21 23:44	1
Benzene	ND		0.50	0.050	ug/L			03/03/21 23:44	1
Bromochloromethane	ND		0.50	0.050	ug/L			03/03/21 23:44	1
Bromodichloromethane	ND		0.50	0.050	ug/L			03/03/21 23:44	1
Bromoform	ND		1.0	0.30	ug/L			03/03/21 23:44	1
Bromomethane	ND		0.50	0.070	ug/L			03/03/21 23:44	1
Carbon disulfide	ND		1.0	0.060	ug/L			03/03/21 23:44	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			03/03/21 23:44	1
Chlorobenzene	ND		0.50	0.060	ug/L			03/03/21 23:44	1
Chloroethane	ND		0.50	0.070	ug/L			03/03/21 23:44	1
Chloroform	**0.14**	**J**	0.50	0.090	ug/L			03/03/21 23:44	1
Chloromethane	ND		0.50	0.060	ug/L			03/03/21 23:44	1
cis-1,2-Dichloroethene	**0.43**	**J**	0.50	0.050	ug/L			03/03/21 23:44	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			03/03/21 23:44	1
Dibromochloromethane	ND		0.50	0.070	ug/L			03/03/21 23:44	1
Ethylbenzene	ND		0.50	0.060	ug/L			03/03/21 23:44	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			03/03/21 23:44	1
Methylene Chloride	ND		0.50	0.070	ug/L			03/03/21 23:44	1
Styrene	ND		0.50	0.050	ug/L			03/03/21 23:44	1
Tetrachloroethene	**1.5**		0.50	0.060	ug/L			03/03/21 23:44	1
Toluene	ND		0.50	0.070	ug/L			03/03/21 23:44	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			03/03/21 23:44	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			03/03/21 23:44	1
Trichloroethene	**0.53**		0.50	0.060	ug/L			03/03/21 23:44	1
Vinyl chloride	ND		0.50	0.10	ug/L			03/03/21 23:44	1
Xylenes, Total	ND		1.0	0.15	ug/L			03/03/21 23:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*03/03/21 23:44*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*03/03/21 23:44*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*03/03/21 23:44*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/03/21 23:44*	*1*

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

Date Collected: 02/25/21 10:25
Date Received: 02/26/21 17:02

Lab Sample ID: 410-30627-7

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			03/04/21 01:31	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			03/04/21 01:31	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			03/04/21 01:31	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			03/04/21 01:31	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			03/04/21 01:31	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			03/04/21 01:31	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			03/04/21 01:31	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			03/04/21 01:31	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			03/04/21 01:31	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			03/04/21 01:31	1
2-Hexanone	ND	^c	5.0	0.60	ug/L			03/04/21 01:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			03/04/21 01:31	1
Acetone	**1.5**	**J**	5.0	0.90	ug/L			03/04/21 01:31	1
Benzene	ND		0.50	0.050	ug/L			03/04/21 01:31	1
Bromochloromethane	ND		0.50	0.050	ug/L			03/04/21 01:31	1
Bromodichloromethane	ND		0.50	0.050	ug/L			03/04/21 01:31	1
Bromoform	ND		1.0	0.30	ug/L			03/04/21 01:31	1
Bromomethane	ND		0.50	0.070	ug/L			03/04/21 01:31	1
Carbon disulfide	ND		1.0	0.060	ug/L			03/04/21 01:31	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			03/04/21 01:31	1
Chlorobenzene	ND		0.50	0.060	ug/L			03/04/21 01:31	1
Chloroethane	ND		0.50	0.070	ug/L			03/04/21 01:31	1
Chloroform	ND		0.50	0.090	ug/L			03/04/21 01:31	1
Chloromethane	ND		0.50	0.060	ug/L			03/04/21 01:31	1
cis-1,2-Dichloroethene	ND		0.50	0.050	ug/L			03/04/21 01:31	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			03/04/21 01:31	1
Dibromochloromethane	ND		0.50	0.070	ug/L			03/04/21 01:31	1
Ethylbenzene	ND		0.50	0.060	ug/L			03/04/21 01:31	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			03/04/21 01:31	1
Methylene Chloride	ND		0.50	0.070	ug/L			03/04/21 01:31	1
Styrene	ND		0.50	0.050	ug/L			03/04/21 01:31	1
Tetrachloroethene	ND		0.50	0.060	ug/L			03/04/21 01:31	1
Toluene	ND		0.50	0.070	ug/L			03/04/21 01:31	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			03/04/21 01:31	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			03/04/21 01:31	1
Trichloroethene	ND		0.50	0.060	ug/L			03/04/21 01:31	1
Vinyl chloride	ND		0.50	0.10	ug/L			03/04/21 01:31	1
Xylenes, Total	ND		1.0	0.15	ug/L			03/04/21 01:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*03/04/21 01:31*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*03/04/21 01:31*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*03/04/21 01:31*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/04/21 01:31*	*1*

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

Date Collected: 02/25/21 10:40
Date Received: 02/26/21 17:02

Lab Sample ID: 410-30627-8

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			03/04/21 01:52	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			03/04/21 01:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			03/04/21 01:52	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			03/04/21 01:52	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			03/04/21 01:52	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			03/04/21 01:52	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			03/04/21 01:52	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			03/04/21 01:52	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			03/04/21 01:52	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			03/04/21 01:52	1
2-Hexanone	ND	^c	5.0	0.60	ug/L			03/04/21 01:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			03/04/21 01:52	1
Acetone	**1.5**	**J**	5.0	0.90	ug/L			03/04/21 01:52	1
Benzene	ND		0.50	0.050	ug/L			03/04/21 01:52	1
Bromochloromethane	ND		0.50	0.050	ug/L			03/04/21 01:52	1
Bromodichloromethane	ND		0.50	0.050	ug/L			03/04/21 01:52	1
Bromoform	ND		1.0	0.30	ug/L			03/04/21 01:52	1
Bromomethane	ND		0.50	0.070	ug/L			03/04/21 01:52	1
Carbon disulfide	ND		1.0	0.060	ug/L			03/04/21 01:52	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			03/04/21 01:52	1
Chlorobenzene	ND		0.50	0.060	ug/L			03/04/21 01:52	1
Chloroethane	ND		0.50	0.070	ug/L			03/04/21 01:52	1
Chloroform	ND		0.50	0.090	ug/L			03/04/21 01:52	1
Chloromethane	ND		0.50	0.060	ug/L			03/04/21 01:52	1
cis-1,2-Dichloroethene	**0.051**	**J**	0.50	0.050	ug/L			03/04/21 01:52	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			03/04/21 01:52	1
Dibromochloromethane	ND		0.50	0.070	ug/L			03/04/21 01:52	1
Ethylbenzene	ND		0.50	0.060	ug/L			03/04/21 01:52	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			03/04/21 01:52	1
Methylene Chloride	ND		0.50	0.070	ug/L			03/04/21 01:52	1
Styrene	ND		0.50	0.050	ug/L			03/04/21 01:52	1
Tetrachloroethene	ND		0.50	0.060	ug/L			03/04/21 01:52	1
Toluene	ND		0.50	0.070	ug/L			03/04/21 01:52	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			03/04/21 01:52	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			03/04/21 01:52	1
Trichloroethene	ND		0.50	0.060	ug/L			03/04/21 01:52	1
Vinyl chloride	ND		0.50	0.10	ug/L			03/04/21 01:52	1
Xylenes, Total	ND		1.0	0.15	ug/L			03/04/21 01:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*03/04/21 01:52*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*03/04/21 01:52*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*03/04/21 01:52*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/04/21 01:52*	*1*

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

Date Collected: 02/25/21 11:25
Date Received: 02/26/21 17:02

Lab Sample ID: 410-30627-9

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			03/04/21 02:13	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			03/04/21 02:13	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			03/04/21 02:13	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			03/04/21 02:13	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			03/04/21 02:13	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			03/04/21 02:13	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			03/04/21 02:13	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			03/04/21 02:13	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			03/04/21 02:13	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			03/04/21 02:13	1
2-Hexanone	ND	^c	5.0	0.60	ug/L			03/04/21 02:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			03/04/21 02:13	1
Acetone	**1.4**	**J**	5.0	0.90	ug/L			03/04/21 02:13	1
Benzene	ND		0.50	0.050	ug/L			03/04/21 02:13	1
Bromochloromethane	ND		0.50	0.050	ug/L			03/04/21 02:13	1
Bromodichloromethane	ND		0.50	0.050	ug/L			03/04/21 02:13	1
Bromoform	ND		1.0	0.30	ug/L			03/04/21 02:13	1
Bromomethane	ND		0.50	0.070	ug/L			03/04/21 02:13	1
Carbon disulfide	ND		1.0	0.060	ug/L			03/04/21 02:13	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			03/04/21 02:13	1
Chlorobenzene	ND		0.50	0.060	ug/L			03/04/21 02:13	1
Chloroethane	ND		0.50	0.070	ug/L			03/04/21 02:13	1
Chloroform	**0.11**	**J**	0.50	0.090	ug/L			03/04/21 02:13	1
Chloromethane	ND		0.50	0.060	ug/L			03/04/21 02:13	1
cis-1,2-Dichloroethene	ND		0.50	0.050	ug/L			03/04/21 02:13	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			03/04/21 02:13	1
Dibromochloromethane	ND		0.50	0.070	ug/L			03/04/21 02:13	1
Ethylbenzene	ND		0.50	0.060	ug/L			03/04/21 02:13	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			03/04/21 02:13	1
Methylene Chloride	ND		0.50	0.070	ug/L			03/04/21 02:13	1
Styrene	ND		0.50	0.050	ug/L			03/04/21 02:13	1
Tetrachloroethene	**0.42**	**J**	0.50	0.060	ug/L			03/04/21 02:13	1
Toluene	ND		0.50	0.070	ug/L			03/04/21 02:13	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			03/04/21 02:13	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			03/04/21 02:13	1
Trichloroethene	ND		0.50	0.060	ug/L			03/04/21 02:13	1
Vinyl chloride	ND		0.50	0.10	ug/L			03/04/21 02:13	1
Xylenes, Total	ND		1.0	0.15	ug/L			03/04/21 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*03/04/21 02:13*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*03/04/21 02:13*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*03/04/21 02:13*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/04/21 02:13*	*1*

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

Date Collected: 02/25/21 12:05
Date Received: 02/26/21 17:02

Lab Sample ID: 410-30627-10

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			03/04/21 02:35	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			03/04/21 02:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			03/04/21 02:35	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			03/04/21 02:35	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			03/04/21 02:35	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			03/04/21 02:35	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			03/04/21 02:35	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			03/04/21 02:35	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			03/04/21 02:35	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			03/04/21 02:35	1
2-Hexanone	ND	^c	5.0	0.60	ug/L			03/04/21 02:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			03/04/21 02:35	1
Acetone	**1.5**	**J**	5.0	0.90	ug/L			03/04/21 02:35	1
Benzene	ND		0.50	0.050	ug/L			03/04/21 02:35	1
Bromochloromethane	ND		0.50	0.050	ug/L			03/04/21 02:35	1
Bromodichloromethane	ND		0.50	0.050	ug/L			03/04/21 02:35	1
Bromoform	ND		1.0	0.30	ug/L			03/04/21 02:35	1
Bromomethane	ND		0.50	0.070	ug/L			03/04/21 02:35	1
Carbon disulfide	**0.062**	**J**	1.0	0.060	ug/L			03/04/21 02:35	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			03/04/21 02:35	1
Chlorobenzene	ND		0.50	0.060	ug/L			03/04/21 02:35	1
Chloroethane	ND		0.50	0.070	ug/L			03/04/21 02:35	1
Chloroform	ND		0.50	0.090	ug/L			03/04/21 02:35	1
Chloromethane	ND		0.50	0.060	ug/L			03/04/21 02:35	1
cis-1,2-Dichloroethene	ND		0.50	0.050	ug/L			03/04/21 02:35	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			03/04/21 02:35	1
Dibromochloromethane	ND		0.50	0.070	ug/L			03/04/21 02:35	1
Ethylbenzene	ND		0.50	0.060	ug/L			03/04/21 02:35	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			03/04/21 02:35	1
Methylene Chloride	ND		0.50	0.070	ug/L			03/04/21 02:35	1
Styrene	ND		0.50	0.050	ug/L			03/04/21 02:35	1
Tetrachloroethene	**0.063**	**J**	0.50	0.060	ug/L			03/04/21 02:35	1
Toluene	ND		0.50	0.070	ug/L			03/04/21 02:35	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			03/04/21 02:35	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			03/04/21 02:35	1
Trichloroethene	ND		0.50	0.060	ug/L			03/04/21 02:35	1
Vinyl chloride	ND		0.50	0.10	ug/L			03/04/21 02:35	1
Xylenes, Total	ND		1.0	0.15	ug/L			03/04/21 02:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*03/04/21 02:35*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*03/04/21 02:35*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*03/04/21 02:35*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/04/21 02:35*	*1*

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

Date Collected: 02/25/21 12:55
Date Received: 02/26/21 17:02

Lab Sample ID: 410-30627-11

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			03/04/21 02:56	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			03/04/21 02:56	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			03/04/21 02:56	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			03/04/21 02:56	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			03/04/21 02:56	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			03/04/21 02:56	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			03/04/21 02:56	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			03/04/21 02:56	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			03/04/21 02:56	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			03/04/21 02:56	1
2-Hexanone	ND	^c	5.0	0.60	ug/L			03/04/21 02:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			03/04/21 02:56	1
Acetone	**2.2**	**J**	5.0	0.90	ug/L			03/04/21 02:56	1
Benzene	ND		0.50	0.050	ug/L			03/04/21 02:56	1
Bromochloromethane	ND		0.50	0.050	ug/L			03/04/21 02:56	1
Bromodichloromethane	ND		0.50	0.050	ug/L			03/04/21 02:56	1
Bromoform	ND		1.0	0.30	ug/L			03/04/21 02:56	1
Bromomethane	ND		0.50	0.070	ug/L			03/04/21 02:56	1
Carbon disulfide	ND		1.0	0.060	ug/L			03/04/21 02:56	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			03/04/21 02:56	1
Chlorobenzene	ND		0.50	0.060	ug/L			03/04/21 02:56	1
Chloroethane	ND		0.50	0.070	ug/L			03/04/21 02:56	1
Chloroform	ND		0.50	0.090	ug/L			03/04/21 02:56	1
Chloromethane	ND		0.50	0.060	ug/L			03/04/21 02:56	1
cis-1,2-Dichloroethene	ND		0.50	0.050	ug/L			03/04/21 02:56	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			03/04/21 02:56	1
Dibromochloromethane	ND		0.50	0.070	ug/L			03/04/21 02:56	1
Ethylbenzene	ND		0.50	0.060	ug/L			03/04/21 02:56	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			03/04/21 02:56	1
Methylene Chloride	**0.098**	**J**	0.50	0.070	ug/L			03/04/21 02:56	1
Styrene	ND		0.50	0.050	ug/L			03/04/21 02:56	1
Tetrachloroethene	**0.11**	**J**	0.50	0.060	ug/L			03/04/21 02:56	1
Toluene	ND		0.50	0.070	ug/L			03/04/21 02:56	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			03/04/21 02:56	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			03/04/21 02:56	1
Trichloroethene	ND		0.50	0.060	ug/L			03/04/21 02:56	1
Vinyl chloride	ND		0.50	0.10	ug/L			03/04/21 02:56	1
Xylenes, Total	ND		1.0	0.15	ug/L			03/04/21 02:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*03/04/21 02:56*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*03/04/21 02:56*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*03/04/21 02:56*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/04/21 02:56*	*1*

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

Date Collected: 02/25/21 09:25
Date Received: 02/26/21 17:02

Lab Sample ID: 410-30627-12

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			03/04/21 03:17	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			03/04/21 03:17	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			03/04/21 03:17	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			03/04/21 03:17	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			03/04/21 03:17	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			03/04/21 03:17	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			03/04/21 03:17	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			03/04/21 03:17	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			03/04/21 03:17	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			03/04/21 03:17	1
2-Hexanone	ND	^c	5.0	0.60	ug/L			03/04/21 03:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			03/04/21 03:17	1
Acetone	**1.7**	**J**	5.0	0.90	ug/L			03/04/21 03:17	1
Benzene	ND		0.50	0.050	ug/L			03/04/21 03:17	1
Bromochloromethane	ND		0.50	0.050	ug/L			03/04/21 03:17	1
Bromodichloromethane	ND		0.50	0.050	ug/L			03/04/21 03:17	1
Bromoform	ND		1.0	0.30	ug/L			03/04/21 03:17	1
Bromomethane	ND		0.50	0.070	ug/L			03/04/21 03:17	1
Carbon disulfide	ND		1.0	0.060	ug/L			03/04/21 03:17	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			03/04/21 03:17	1
Chlorobenzene	ND		0.50	0.060	ug/L			03/04/21 03:17	1
Chloroethane	ND		0.50	0.070	ug/L			03/04/21 03:17	1
Chloroform	ND		0.50	0.090	ug/L			03/04/21 03:17	1
Chloromethane	ND		0.50	0.060	ug/L			03/04/21 03:17	1
cis-1,2-Dichloroethene	ND		0.50	0.050	ug/L			03/04/21 03:17	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			03/04/21 03:17	1
Dibromochloromethane	ND		0.50	0.070	ug/L			03/04/21 03:17	1
Ethylbenzene	ND		0.50	0.060	ug/L			03/04/21 03:17	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			03/04/21 03:17	1
Methylene Chloride	ND		0.50	0.070	ug/L			03/04/21 03:17	1
Styrene	ND		0.50	0.050	ug/L			03/04/21 03:17	1
Tetrachloroethene	ND		0.50	0.060	ug/L			03/04/21 03:17	1
Toluene	ND		0.50	0.070	ug/L			03/04/21 03:17	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			03/04/21 03:17	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			03/04/21 03:17	1
Trichloroethene	ND		0.50	0.060	ug/L			03/04/21 03:17	1
Vinyl chloride	ND		0.50	0.10	ug/L			03/04/21 03:17	1
Xylenes, Total	ND		1.0	0.15	ug/L			03/04/21 03:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*03/04/21 03:17*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*03/04/21 03:17*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*03/04/21 03:17*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/04/21 03:17*	*1*

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

Date Collected: 02/25/21 12:00
Date Received: 02/26/21 17:02

Lab Sample ID: 410-30627-13

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			03/04/21 03:38	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			03/04/21 03:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			03/04/21 03:38	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			03/04/21 03:38	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			03/04/21 03:38	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			03/04/21 03:38	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			03/04/21 03:38	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			03/04/21 03:38	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			03/04/21 03:38	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			03/04/21 03:38	1
2-Hexanone	ND	^c	5.0	0.60	ug/L			03/04/21 03:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			03/04/21 03:38	1
Acetone	**1.5**	**J**	5.0	0.90	ug/L			03/04/21 03:38	1
Benzene	ND		0.50	0.050	ug/L			03/04/21 03:38	1
Bromochloromethane	ND		0.50	0.050	ug/L			03/04/21 03:38	1
Bromodichloromethane	ND		0.50	0.050	ug/L			03/04/21 03:38	1
Bromoform	ND		1.0	0.30	ug/L			03/04/21 03:38	1
Bromomethane	ND		0.50	0.070	ug/L			03/04/21 03:38	1
Carbon disulfide	ND		1.0	0.060	ug/L			03/04/21 03:38	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			03/04/21 03:38	1
Chlorobenzene	ND		0.50	0.060	ug/L			03/04/21 03:38	1
Chloroethane	ND		0.50	0.070	ug/L			03/04/21 03:38	1
Chloroform	ND		0.50	0.090	ug/L			03/04/21 03:38	1
Chloromethane	ND		0.50	0.060	ug/L			03/04/21 03:38	1
cis-1,2-Dichloroethene	ND		0.50	0.050	ug/L			03/04/21 03:38	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			03/04/21 03:38	1
Dibromochloromethane	ND		0.50	0.070	ug/L			03/04/21 03:38	1
Ethylbenzene	ND		0.50	0.060	ug/L			03/04/21 03:38	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			03/04/21 03:38	1
Methylene Chloride	ND		0.50	0.070	ug/L			03/04/21 03:38	1
Styrene	ND		0.50	0.050	ug/L			03/04/21 03:38	1
Tetrachloroethene	ND		0.50	0.060	ug/L			03/04/21 03:38	1
Toluene	ND		0.50	0.070	ug/L			03/04/21 03:38	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			03/04/21 03:38	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			03/04/21 03:38	1
Trichloroethene	ND		0.50	0.060	ug/L			03/04/21 03:38	1
Vinyl chloride	ND		0.50	0.10	ug/L			03/04/21 03:38	1
Xylenes, Total	ND		1.0	0.15	ug/L			03/04/21 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*03/04/21 03:38*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*03/04/21 03:38*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*03/04/21 03:38*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/04/21 03:38*	*1*

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

Date Collected: 02/25/21 00:00
Date Received: 02/26/21 17:02

Lab Sample ID: 410-30627-14

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			03/03/21 21:36	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			03/03/21 21:36	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			03/03/21 21:36	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			03/03/21 21:36	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			03/03/21 21:36	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			03/03/21 21:36	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			03/03/21 21:36	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			03/03/21 21:36	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			03/03/21 21:36	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			03/03/21 21:36	1
2-Hexanone	ND	^c	5.0	0.60	ug/L			03/03/21 21:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			03/03/21 21:36	1
Acetone	ND		5.0	0.90	ug/L			03/03/21 21:36	1
Benzene	ND		0.50	0.050	ug/L			03/03/21 21:36	1
Bromochloromethane	ND		0.50	0.050	ug/L			03/03/21 21:36	1
Bromodichloromethane	ND		0.50	0.050	ug/L			03/03/21 21:36	1
Bromoform	ND		1.0	0.30	ug/L			03/03/21 21:36	1
Bromomethane	ND		0.50	0.070	ug/L			03/03/21 21:36	1
Carbon disulfide	ND		1.0	0.060	ug/L			03/03/21 21:36	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			03/03/21 21:36	1
Chlorobenzene	ND		0.50	0.060	ug/L			03/03/21 21:36	1
Chloroethane	ND		0.50	0.070	ug/L			03/03/21 21:36	1
Chloroform	ND		0.50	0.090	ug/L			03/03/21 21:36	1
Chloromethane	ND		0.50	0.060	ug/L			03/03/21 21:36	1
cis-1,2-Dichloroethene	ND		0.50	0.050	ug/L			03/03/21 21:36	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			03/03/21 21:36	1
Dibromochloromethane	ND		0.50	0.070	ug/L			03/03/21 21:36	1
Ethylbenzene	ND		0.50	0.060	ug/L			03/03/21 21:36	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			03/03/21 21:36	1
Methylene Chloride	**0.18**	**J**	0.50	0.070	ug/L			03/03/21 21:36	1
Styrene	ND		0.50	0.050	ug/L			03/03/21 21:36	1
Tetrachloroethene	ND		0.50	0.060	ug/L			03/03/21 21:36	1
Toluene	ND		0.50	0.070	ug/L			03/03/21 21:36	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			03/03/21 21:36	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			03/03/21 21:36	1
Trichloroethene	ND		0.50	0.060	ug/L			03/03/21 21:36	1
Vinyl chloride	ND		0.50	0.10	ug/L			03/03/21 21:36	1
Xylenes, Total	ND		1.0	0.15	ug/L			03/03/21 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*03/03/21 21:36*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*03/03/21 21:36*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*03/03/21 21:36*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/03/21 21:36*	*1*

Default Detection Limits

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

Job ID: 410-30627-1

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: 410-30627-1

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)
410-30627-1	HD-COD-SW-6-0/1-0	101	97	99	101
410-30627-2	HD-COD-SW-7-0/1-0	101	97	100	101
410-30627-3	HD-COD-SW-8-0/1-0	101	97	101	102
410-30627-4	HD-COD-SW-9-0/1-0	101	97	103	98
410-30627-5	HD-COD-SW-13-0/1-0	103	97	103	97
410-30627-6	HD-COD-SW-15-0/1-0	101	97	102	97
410-30627-6 MS	HD-COD-SW-15-0/1-0	98	99	101	99
410-30627-6 MSD	HD-COD-SW-15-0/1-0	100	99	100	98
410-30627-7	HD-COD-SW-16-0/1-0	104	96	104	98
410-30627-8	HD-COD-SW-17-0/1-0	102	96	103	98
410-30627-9	HD-COD-SW-26-0/1-0	103	97	103	98
410-30627-10	HD-COD-SW-27-0/1-0	101	96	104	97
410-30627-11	HD-COD-SW-28-0/1-0	102	96	103	98
410-30627-12	HD-COD-SW-29-0/1-0	102	97	104	97
410-30627-13	HD-QC1-0/1-1	104	97	102	98
410-30627-14	HD-QC1-0/1-2	103	97	102	98
LCS 410-99025/5	Lab Control Sample	103	97	101	101
LCS 410-99333/5	Lab Control Sample	102	99	100	98
LCSD 410-99025/6	Lab Control Sample Dup	100	97	102	101
MB 410-99025/10	Method Blank	102	96	100	101
MB 410-99333/8	Method Blank	102	97	102	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 410-99025/10
Matrix: Water
Analysis Batch: 99025

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			03/03/21 11:51	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			03/03/21 11:51	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			03/03/21 11:51	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			03/03/21 11:51	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			03/03/21 11:51	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			03/03/21 11:51	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			03/03/21 11:51	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			03/03/21 11:51	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			03/03/21 11:51	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			03/03/21 11:51	1
2-Hexanone	ND		5.0	0.60	ug/L			03/03/21 11:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			03/03/21 11:51	1
Acetone	ND		5.0	0.90	ug/L			03/03/21 11:51	1
Benzene	ND		0.50	0.050	ug/L			03/03/21 11:51	1
Bromochloromethane	ND		0.50	0.050	ug/L			03/03/21 11:51	1
Bromodichloromethane	ND		0.50	0.050	ug/L			03/03/21 11:51	1
Bromoform	ND		1.0	0.30	ug/L			03/03/21 11:51	1
Bromomethane	ND		0.50	0.070	ug/L			03/03/21 11:51	1
Carbon disulfide	ND		1.0	0.060	ug/L			03/03/21 11:51	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			03/03/21 11:51	1
Chlorobenzene	ND		0.50	0.060	ug/L			03/03/21 11:51	1
Chloroethane	ND		0.50	0.070	ug/L			03/03/21 11:51	1
Chloroform	ND		0.50	0.090	ug/L			03/03/21 11:51	1
Chloromethane	ND		0.50	0.060	ug/L			03/03/21 11:51	1
cis-1,2-Dichloroethene	ND		0.50	0.050	ug/L			03/03/21 11:51	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			03/03/21 11:51	1
Dibromochloromethane	ND		0.50	0.070	ug/L			03/03/21 11:51	1
Ethylbenzene	ND		0.50	0.060	ug/L			03/03/21 11:51	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			03/03/21 11:51	1
Methylene Chloride	ND		0.50	0.070	ug/L			03/03/21 11:51	1
Styrene	ND		0.50	0.050	ug/L			03/03/21 11:51	1
Tetrachloroethene	ND		0.50	0.060	ug/L			03/03/21 11:51	1
Toluene	ND		0.50	0.070	ug/L			03/03/21 11:51	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			03/03/21 11:51	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			03/03/21 11:51	1
Trichloroethene	ND		0.50	0.060	ug/L			03/03/21 11:51	1
Vinyl chloride	ND		0.50	0.10	ug/L			03/03/21 11:51	1
Xylenes, Total	ND		1.0	0.15	ug/L			03/03/21 11:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*03/03/21 11:51*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*03/03/21 11:51*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 120*		*03/03/21 11:51*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*03/03/21 11:51*	*1*

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

Lab Sample ID: LCS 410-99025/5
Matrix: Water
Analysis Batch: 99025

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	4.79		ug/L		96	71 - 134
1,1,1-Trichloroethane	5.00	4.67		ug/L		93	78 - 126
1,1,2,2-Tetrachloroethane	5.00	4.67		ug/L		93	75 - 123
1,1,2-Trichloroethane	5.00	4.78		ug/L		96	80 - 120
1,1-Dichloroethane	5.00	4.48		ug/L		90	74 - 120
1,1-Dichloroethene	5.00	4.75		ug/L		95	80 - 131
1,2-Dibromoethane (EDB)	5.00	4.75		ug/L		95	80 - 120
1,2-Dichloroethane	5.00	4.35		ug/L		87	69 - 122
1,2-Dichloropropane	5.00	4.61		ug/L		92	80 - 120
2-Butanone (MEK)	37.5	35.9		ug/L		96	59 - 141
2-Hexanone	25.0	23.2		ug/L		93	52 - 140
4-Methyl-2-pentanone (MIBK)	25.0	23.3		ug/L		93	55 - 140
Acetone	37.5	33.3		ug/L		89	60 - 146
Benzene	5.00	4.55		ug/L		91	80 - 120
Bromochloromethane	5.00	4.80		ug/L		96	80 - 120
Bromodichloromethane	5.00	4.64		ug/L		93	73 - 124
Bromoform	5.00	4.87		ug/L		97	49 - 144
Bromomethane	5.00	4.41		ug/L		88	60 - 136
Carbon disulfide	5.00	4.55		ug/L		91	67 - 130
Carbon tetrachloride	5.00	4.80		ug/L		96	64 - 141
Chlorobenzene	5.00	4.86		ug/L		97	80 - 120
Chloroethane	5.00	4.28		ug/L		86	63 - 120
Chloroform	5.00	4.65		ug/L		93	80 - 120
Chloromethane	5.00	4.02		ug/L		80	56 - 124
cis-1,2-Dichloroethene	5.00	4.76		ug/L		95	80 - 122
cis-1,3-Dichloropropene	5.00	4.42		ug/L		88	67 - 121
Dibromochloromethane	5.00	4.79		ug/L		96	64 - 138
Ethylbenzene	5.00	4.66		ug/L		93	80 - 120
Methyl tert-butyl ether	5.00	4.32		ug/L		86	69 - 120
Methylene Chloride	5.00	4.77		ug/L		95	80 - 120
Styrene	5.00	4.77		ug/L		95	80 - 120
Tetrachloroethene	5.00	4.97		ug/L		99	80 - 120
Toluene	5.00	4.69		ug/L		94	80 - 120
trans-1,2-Dichloroethene	5.00	4.74		ug/L		95	80 - 122
trans-1,3-Dichloropropene	5.00	4.61		ug/L		92	61 - 129
Trichloroethene	5.00	4.66		ug/L		93	80 - 120
Vinyl chloride	5.00	4.47		ug/L		89	60 - 125
Xylenes, Total	15.0	14.5		ug/L		97	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*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: LCSD 410-99025/6
Matrix: Water
Analysis Batch: 99025

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	4.76		ug/L		95	71 - 134	1	30
1,1,1-Trichloroethane			5.00	4.69		ug/L		94	78 - 126	0	30
1,1,2,2-Tetrachloroethane			5.00	4.67		ug/L		93	75 - 123	0	30
1,1,2-Trichloroethane			5.00	4.88		ug/L		98	80 - 120	2	30
1,1-Dichloroethane			5.00	4.45		ug/L		89	74 - 120	1	30
1,1-Dichloroethene			5.00	4.69		ug/L		94	80 - 131	1	30
1,2-Dibromoethane (EDB)			5.00	4.65		ug/L		93	80 - 120	2	30
1,2-Dichloroethane			5.00	4.33		ug/L		87	69 - 122	1	30
1,2-Dichloropropane			5.00	4.58		ug/L		92	80 - 120	1	30
2-Butanone (MEK)			37.5	36.7		ug/L		98	59 - 141	2	30
2-Hexanone			25.0	24.5		ug/L		98	52 - 140	5	30
4-Methyl-2-pentanone (MIBK)			25.0	24.3		ug/L		97	55 - 140	4	30
Acetone			37.5	34.8		ug/L		93	60 - 146	4	30
Benzene			5.00	4.53		ug/L		91	80 - 120	0	30
Bromochloromethane			5.00	4.76		ug/L		95	80 - 120	1	30
Bromodichloromethane			5.00	4.60		ug/L		92	73 - 124	1	30
Bromoform			5.00	4.76		ug/L		95	49 - 144	2	30
Bromomethane			5.00	4.36		ug/L		87	60 - 136	1	30
Carbon disulfide			5.00	4.47		ug/L		89	67 - 130	2	30
Carbon tetrachloride			5.00	4.72		ug/L		94	64 - 141	2	30
Chlorobenzene			5.00	4.83		ug/L		97	80 - 120	1	30
Chloroethane			5.00	4.26		ug/L		85	63 - 120	1	30
Chloroform			5.00	4.60		ug/L		92	80 - 120	1	30
Chloromethane			5.00	4.01		ug/L		80	56 - 124	0	30
cis-1,2-Dichloroethene			5.00	4.73		ug/L		95	80 - 122	1	30
cis-1,3-Dichloropropene			5.00	4.33		ug/L		87	67 - 121	2	30
Dibromochloromethane			5.00	4.64		ug/L		93	64 - 138	3	30
Ethylbenzene			5.00	4.62		ug/L		92	80 - 120	1	30
Methyl tert-butyl ether			5.00	4.31		ug/L		86	69 - 120	0	30
Methylene Chloride			5.00	4.72		ug/L		94	80 - 120	1	30
Styrene			5.00	4.76		ug/L		95	80 - 120	0	30
Tetrachloroethene			5.00	4.98		ug/L		100	80 - 120	0	30
Toluene			5.00	4.62		ug/L		92	80 - 120	1	30
trans-1,2-Dichloroethene			5.00	4.64		ug/L		93	80 - 122	2	30
trans-1,3-Dichloropropene			5.00	4.46		ug/L		89	61 - 129	3	30
Trichloroethene			5.00	4.72		ug/L		94	80 - 120	1	30
Vinyl chloride			5.00	4.22		ug/L		84	60 - 125	6	30
Xylenes, Total			15.0	14.4		ug/L		96	80 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

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

Lab Sample ID: MB 410-99333/8
Matrix: Water
Analysis Batch: 99333

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			03/03/21 21:15	1
1,1,1-Trichloroethane	ND		0.50	0.060	ug/L			03/03/21 21:15	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.070	ug/L			03/03/21 21:15	1
1,1,2-Trichloroethane	ND		0.50	0.060	ug/L			03/03/21 21:15	1
1,1-Dichloroethane	ND		0.50	0.070	ug/L			03/03/21 21:15	1
1,1-Dichloroethene	ND		0.50	0.060	ug/L			03/03/21 21:15	1
1,2-Dibromoethane (EDB)	ND		0.50	0.060	ug/L			03/03/21 21:15	1
1,2-Dichloroethane	ND		0.50	0.050	ug/L			03/03/21 21:15	1
1,2-Dichloropropane	ND		0.50	0.060	ug/L			03/03/21 21:15	1
2-Butanone (MEK)	ND		5.0	0.60	ug/L			03/03/21 21:15	1
2-Hexanone	ND		5.0	0.60	ug/L			03/03/21 21:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70	ug/L			03/03/21 21:15	1
Acetone	ND		5.0	0.90	ug/L			03/03/21 21:15	1
Benzene	ND		0.50	0.050	ug/L			03/03/21 21:15	1
Bromochloromethane	ND		0.50	0.050	ug/L			03/03/21 21:15	1
Bromodichloromethane	ND		0.50	0.050	ug/L			03/03/21 21:15	1
Bromoform	ND		1.0	0.30	ug/L			03/03/21 21:15	1
Bromomethane	ND		0.50	0.070	ug/L			03/03/21 21:15	1
Carbon disulfide	ND		1.0	0.060	ug/L			03/03/21 21:15	1
Carbon tetrachloride	ND		0.50	0.070	ug/L			03/03/21 21:15	1
Chlorobenzene	ND		0.50	0.060	ug/L			03/03/21 21:15	1
Chloroethane	ND		0.50	0.070	ug/L			03/03/21 21:15	1
Chloroform	ND		0.50	0.090	ug/L			03/03/21 21:15	1
Chloromethane	ND		0.50	0.060	ug/L			03/03/21 21:15	1
cis-1,2-Dichloroethene	ND		0.50	0.050	ug/L			03/03/21 21:15	1
cis-1,3-Dichloropropene	ND		0.50	0.050	ug/L			03/03/21 21:15	1
Dibromochloromethane	ND		0.50	0.070	ug/L			03/03/21 21:15	1
Ethylbenzene	ND		0.50	0.060	ug/L			03/03/21 21:15	1
Methyl tert-butyl ether	ND		0.50	0.050	ug/L			03/03/21 21:15	1
Methylene Chloride	ND		0.50	0.070	ug/L			03/03/21 21:15	1
Styrene	ND		0.50	0.050	ug/L			03/03/21 21:15	1
Tetrachloroethene	ND		0.50	0.060	ug/L			03/03/21 21:15	1
Toluene	ND		0.50	0.070	ug/L			03/03/21 21:15	1
trans-1,2-Dichloroethene	ND		0.50	0.060	ug/L			03/03/21 21:15	1
trans-1,3-Dichloropropene	ND		0.50	0.060	ug/L			03/03/21 21:15	1
Trichloroethene	ND		0.50	0.060	ug/L			03/03/21 21:15	1
Vinyl chloride	ND		0.50	0.10	ug/L			03/03/21 21:15	1
Xylenes, Total	ND		1.0	0.15	ug/L			03/03/21 21:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*03/03/21 21:15*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*03/03/21 21:15*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 120*		*03/03/21 21:15*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/03/21 21:15*	*1*

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

Lab Sample ID: LCS 410-99333/5
Matrix: Water
Analysis Batch: 99333

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	4.79		ug/L		96	71 - 134
1,1,1-Trichloroethane	5.00	4.90		ug/L		98	78 - 126
1,1,2,2-Tetrachloroethane	5.00	4.77		ug/L		95	75 - 123
1,1,2-Trichloroethane	5.00	4.81		ug/L		96	80 - 120
1,1-Dichloroethane	5.00	4.81		ug/L		96	74 - 120
1,1-Dichloroethene	5.00	4.84		ug/L		97	80 - 131
1,2-Dibromoethane (EDB)	5.00	4.75		ug/L		95	80 - 120
1,2-Dichloroethane	5.00	4.88		ug/L		98	69 - 122
1,2-Dichloropropane	5.00	5.00		ug/L		100	80 - 120
2-Butanone (MEK)	37.5	44.4		ug/L		118	59 - 141
2-Hexanone	25.0	30.7		ug/L		123	52 - 140
4-Methyl-2-pentanone (MIBK)	25.0	30.5		ug/L		122	55 - 140
Acetone	37.5	36.9		ug/L		99	60 - 146
Benzene	5.00	4.80		ug/L		96	80 - 120
Bromochloromethane	5.00	4.73		ug/L		95	80 - 120
Bromodichloromethane	5.00	4.96		ug/L		99	73 - 124
Bromoform	5.00	4.75		ug/L		95	49 - 144
Bromomethane	5.00	4.96		ug/L		99	60 - 136
Carbon disulfide	5.00	4.71		ug/L		94	67 - 130
Carbon tetrachloride	5.00	4.95		ug/L		99	64 - 141
Chlorobenzene	5.00	4.71		ug/L		94	80 - 120
Chloroethane	5.00	4.86		ug/L		97	63 - 120
Chloroform	5.00	4.87		ug/L		97	80 - 120
Chloromethane	5.00	4.84		ug/L		97	56 - 124
cis-1,2-Dichloroethene	5.00	4.77		ug/L		95	80 - 122
cis-1,3-Dichloropropene	5.00	4.97		ug/L		99	67 - 121
Dibromochloromethane	5.00	4.74		ug/L		95	64 - 138
Ethylbenzene	5.00	4.64		ug/L		93	80 - 120
Methyl tert-butyl ether	5.00	4.71		ug/L		94	69 - 120
Methylene Chloride	5.00	4.76		ug/L		95	80 - 120
Styrene	5.00	4.73		ug/L		95	80 - 120
Tetrachloroethene	5.00	4.60		ug/L		92	80 - 120
Toluene	5.00	4.58		ug/L		92	80 - 120
trans-1,2-Dichloroethene	5.00	4.76		ug/L		95	80 - 122
trans-1,3-Dichloropropene	5.00	5.13		ug/L		103	61 - 129
Trichloroethene	5.00	4.76		ug/L		95	80 - 120
Vinyl chloride	5.00	5.05		ug/L		101	60 - 125
Xylenes, Total	15.0	13.9		ug/L		93	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

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

Lab Sample ID: 410-30627-6 MS
Matrix: Water
Analysis Batch: 99333

Client Sample ID: HD-COD-SW-15-0/1-0
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	4.93		ug/L		99	71 - 134
1,1,1-Trichloroethane	0.10	J	5.00	5.21		ug/L		102	78 - 126
1,1,2,2-Tetrachloroethane	ND		5.00	4.82		ug/L		96	75 - 123
1,1,2-Trichloroethane	ND		5.00	4.92		ug/L		98	80 - 120
1,1-Dichloroethane	ND		5.00	4.91		ug/L		98	74 - 120
1,1-Dichloroethene	0.064	J	5.00	5.16		ug/L		102	80 - 131
1,2-Dibromoethane (EDB)	ND		5.00	4.72		ug/L		94	80 - 120
1,2-Dichloroethane	ND		5.00	4.85		ug/L		97	69 - 122
1,2-Dichloropropane	ND		5.00	5.00		ug/L		100	80 - 120
2-Butanone (MEK)	ND		37.5	34.9		ug/L		93	59 - 141
2-Hexanone	ND	^c	25.0	24.4		ug/L		97	52 - 140
4-Methyl-2-pentanone (MIBK)	ND		25.0	23.2		ug/L		93	55 - 140
Acetone	1.2	J	37.5	31.4		ug/L		80	60 - 146
Benzene	ND		5.00	4.86		ug/L		97	80 - 120
Bromochloromethane	ND		5.00	4.65		ug/L		93	80 - 120
Bromodichloromethane	ND		5.00	4.97		ug/L		99	73 - 124
Bromoform	ND		5.00	4.80		ug/L		96	49 - 144
Bromomethane	ND		5.00	4.92		ug/L		98	60 - 136
Carbon disulfide	ND		5.00	4.75		ug/L		95	67 - 130
Carbon tetrachloride	ND		5.00	5.19		ug/L		104	64 - 141
Chlorobenzene	ND		5.00	4.88		ug/L		97	80 - 120
Chloroethane	ND		5.00	4.96		ug/L		99	63 - 120
Chloroform	0.14	J	5.00	5.13		ug/L		100	80 - 120
Chloromethane	ND		5.00	4.96		ug/L		99	80 - 120
cis-1,2-Dichloroethene	0.43	J	5.00	5.21		ug/L		95	80 - 122
cis-1,3-Dichloropropene	ND		5.00	4.90		ug/L		98	67 - 121
Dibromochloromethane	ND		5.00	4.89		ug/L		98	64 - 138
Ethylbenzene	ND		5.00	4.88		ug/L		98	80 - 120
Methyl tert-butyl ether	ND		5.00	4.59		ug/L		92	69 - 120
Methylene Chloride	ND		5.00	4.78		ug/L		96	80 - 120
Styrene	ND		5.00	4.92		ug/L		98	80 - 120
Tetrachloroethene	1.5		5.00	6.46		ug/L		99	80 - 120
Toluene	ND		5.00	4.81		ug/L		96	80 - 120
trans-1,2-Dichloroethene	ND		5.00	4.83		ug/L		97	80 - 122
trans-1,3-Dichloropropene	ND		5.00	4.99		ug/L		100	61 - 129
Trichloroethene	0.53		5.00	5.53		ug/L		100	80 - 120
Vinyl chloride	ND		5.00	5.21		ug/L		104	60 - 125
Xylenes, Total	ND		15.0	14.7		ug/L		98	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

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

Lab Sample ID: 410-30627-6 MSD
Matrix: Water
Analysis Batch: 99333

Client Sample ID: HD-COD-SW-15-0/1-0
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	5.00		ug/L		100	71 - 134	1	30
1,1,1-Trichloroethane	0.10	J	5.00	5.24		ug/L		103	78 - 126	1	30
1,1,2,2-Tetrachloroethane	ND		5.00	4.81		ug/L		96	75 - 123	0	30
1,1,2-Trichloroethane	ND		5.00	4.91		ug/L		98	80 - 120	0	30
1,1-Dichloroethane	ND		5.00	4.93		ug/L		99	74 - 120	0	30
1,1-Dichloroethene	0.064	J	5.00	5.09		ug/L		101	80 - 131	1	30
1,2-Dibromoethane (EDB)	ND		5.00	4.77		ug/L		95	80 - 120	1	30
1,2-Dichloroethane	ND		5.00	4.82		ug/L		96	69 - 122	0	30
1,2-Dichloropropane	ND		5.00	5.06		ug/L		101	80 - 120	1	30
2-Butanone (MEK)	ND		37.5	34.9		ug/L		93	59 - 141	0	30
2-Hexanone	ND	^c	25.0	24.3		ug/L		97	52 - 140	0	30
4-Methyl-2-pentanone (MIBK)	ND		25.0	23.5		ug/L		94	55 - 140	1	30
Acetone	1.2	J	37.5	31.3		ug/L		80	60 - 146	0	30
Benzene	ND		5.00	4.89		ug/L		98	80 - 120	1	30
Bromochloromethane	ND		5.00	4.72		ug/L		94	80 - 120	1	30
Bromodichloromethane	ND		5.00	4.98		ug/L		100	73 - 124	0	30
Bromoform	ND		5.00	4.86		ug/L		97	49 - 144	1	30
Bromomethane	ND		5.00	5.07		ug/L		101	60 - 136	3	30
Carbon disulfide	ND		5.00	4.72		ug/L		94	67 - 130	1	30
Carbon tetrachloride	ND		5.00	5.24		ug/L		105	64 - 141	1	30
Chlorobenzene	ND		5.00	4.89		ug/L		98	80 - 120	0	30
Chloroethane	ND		5.00	4.97		ug/L		99	63 - 120	0	30
Chloroform	0.14	J	5.00	5.11		ug/L		99	80 - 120	0	30
Chloromethane	ND		5.00	5.07		ug/L		101	80 - 120	2	30
cis-1,2-Dichloroethene	0.43	J	5.00	5.27		ug/L		97	80 - 122	1	30
cis-1,3-Dichloropropene	ND		5.00	4.99		ug/L		100	67 - 121	2	30
Dibromochloromethane	ND		5.00	4.84		ug/L		97	64 - 138	1	30
Ethylbenzene	ND		5.00	4.91		ug/L		98	80 - 120	0	30
Methyl tert-butyl ether	ND		5.00	4.67		ug/L		93	69 - 120	2	30
Methylene Chloride	ND		5.00	4.75		ug/L		95	80 - 120	1	30
Styrene	ND		5.00	4.88		ug/L		97	80 - 120	1	30
Tetrachloroethene	1.5		5.00	6.56		ug/L		100	80 - 120	1	30
Toluene	ND		5.00	4.82		ug/L		96	80 - 120	0	30
trans-1,2-Dichloroethene	ND		5.00	4.91		ug/L		98	80 - 122	2	30
trans-1,3-Dichloropropene	ND		5.00	5.17		ug/L		103	61 - 129	4	30
Trichloroethene	0.53		5.00	5.50		ug/L		99	80 - 120	1	30
Vinyl chloride	ND		5.00	5.34		ug/L		107	60 - 125	3	30
Xylenes, Total	ND		15.0	14.6		ug/L		97	80 - 120	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

GC/MS VOA

Analysis Batch: 99025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-30627-1	HD-COD-SW-6-0/1-0	Total/NA	Water	8260D	
410-30627-2	HD-COD-SW-7-0/1-0	Total/NA	Water	8260D	
410-30627-3	HD-COD-SW-8-0/1-0	Total/NA	Water	8260D	
MB 410-99025/10	Method Blank	Total/NA	Water	8260D	
LCS 410-99025/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-99025/6	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 99333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-30627-4	HD-COD-SW-9-0/1-0	Total/NA	Water	8260D	
410-30627-5	HD-COD-SW-13-0/1-0	Total/NA	Water	8260D	
410-30627-6	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	
410-30627-7	HD-COD-SW-16-0/1-0	Total/NA	Water	8260D	
410-30627-8	HD-COD-SW-17-0/1-0	Total/NA	Water	8260D	
410-30627-9	HD-COD-SW-26-0/1-0	Total/NA	Water	8260D	
410-30627-10	HD-COD-SW-27-0/1-0	Total/NA	Water	8260D	
410-30627-11	HD-COD-SW-28-0/1-0	Total/NA	Water	8260D	
410-30627-12	HD-COD-SW-29-0/1-0	Total/NA	Water	8260D	
410-30627-13	HD-QC1-0/1-1	Total/NA	Water	8260D	
410-30627-14	HD-QC1-0/1-2	Total/NA	Water	8260D	
MB 410-99333/8	Method Blank	Total/NA	Water	8260D	
LCS 410-99333/5	Lab Control Sample	Total/NA	Water	8260D	
410-30627-6 MS	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	
410-30627-6 MSD	HD-COD-SW-15-0/1-0	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 410-30627-1

Client Sample ID: HD-COD-SW-6-0/1-0
Lab Sample ID: 410-30627-1
Date Collected: 02/25/21 11:05
Matrix: Water
Date Received: 02/26/21 17:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	99025	03/03/21 15:30	K4WN	ELLE

Client Sample ID: HD-COD-SW-7-0/1-0
Lab Sample ID: 410-30627-2
Date Collected: 02/25/21 11:45
Matrix: Water
Date Received: 02/26/21 17:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	99025	03/03/21 15:52	K4WN	ELLE

Client Sample ID: HD-COD-SW-8-0/1-0
Lab Sample ID: 410-30627-3
Date Collected: 02/25/21 09:40
Matrix: Water
Date Received: 02/26/21 17:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	99025	03/03/21 16:14	K4WN	ELLE

Client Sample ID: HD-COD-SW-9-0/1-0
Lab Sample ID: 410-30627-4
Date Collected: 02/25/21 12:45
Matrix: Water
Date Received: 02/26/21 17:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	99333	03/03/21 23:02	J5QQ	ELLE

Client Sample ID: HD-COD-SW-13-0/1-0
Lab Sample ID: 410-30627-5
Date Collected: 02/25/21 10:00
Matrix: Water
Date Received: 02/26/21 17:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	99333	03/03/21 23:23	J5QQ	ELLE

Client Sample ID: HD-COD-SW-15-0/1-0
Lab Sample ID: 410-30627-6
Date Collected: 02/25/21 12:10
Matrix: Water
Date Received: 02/26/21 17:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	99333	03/03/21 23:44	J5QQ	ELLE

Client Sample ID: HD-COD-SW-16-0/1-0
Lab Sample ID: 410-30627-7
Date Collected: 02/25/21 10:25
Matrix: Water
Date Received: 02/26/21 17:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	99333	03/04/21 01:31	J5QQ	ELLE

Client Sample ID: HD-COD-SW-17-0/1-0
Lab Sample ID: 410-30627-8
Date Collected: 02/25/21 10:40
Matrix: Water
Date Received: 02/26/21 17:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	99333	03/04/21 01:52	J5QQ	ELLE

Client Sample ID: HD-COD-SW-26-0/1-0
Lab Sample ID: 410-30627-9
Date Collected: 02/25/21 11:25
Matrix: Water
Date Received: 02/26/21 17:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	99333	03/04/21 02:13	J5QQ	ELLE

Client Sample ID: HD-COD-SW-27-0/1-0
Lab Sample ID: 410-30627-10
Date Collected: 02/25/21 12:05
Matrix: Water
Date Received: 02/26/21 17:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	99333	03/04/21 02:35	J5QQ	ELLE

Client Sample ID: HD-COD-SW-28-0/1-0
Lab Sample ID: 410-30627-11
Date Collected: 02/25/21 12:55
Matrix: Water
Date Received: 02/26/21 17:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	99333	03/04/21 02:56	J5QQ	ELLE

Client Sample ID: HD-COD-SW-29-0/1-0
Lab Sample ID: 410-30627-12
Date Collected: 02/25/21 09:25
Matrix: Water
Date Received: 02/26/21 17:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	99333	03/04/21 03:17	J5QQ	ELLE

Client Sample ID: HD-QC1-0/1-1
Lab Sample ID: 410-30627-13
Date Collected: 02/25/21 12:00
Matrix: Water
Date Received: 02/26/21 17:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	99333	03/04/21 03:38	J5QQ	ELLE

Client Sample ID: HD-QC1-0/1-2
Lab Sample ID: 410-30627-14
Date Collected: 02/25/21 00:00
Matrix: Water
Date Received: 02/26/21 17:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	99333	03/03/21 21:36	J5QQ	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: 410-30627-1
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: 410-30627-1

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: 410-30627-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-30627-1	HD-COD-SW-6-0/1-0	Water	02/25/21 11:05	02/26/21 17:02	
410-30627-2	HD-COD-SW-7-0/1-0	Water	02/25/21 11:45	02/26/21 17:02	
410-30627-3	HD-COD-SW-8-0/1-0	Water	02/25/21 09:40	02/26/21 17:02	
410-30627-4	HD-COD-SW-9-0/1-0	Water	02/25/21 12:45	02/26/21 17:02	
410-30627-5	HD-COD-SW-13-0/1-0	Water	02/25/21 10:00	02/26/21 17:02	
410-30627-6	HD-COD-SW-15-0/1-0	Water	02/25/21 12:10	02/26/21 17:02	
410-30627-7	HD-COD-SW-16-0/1-0	Water	02/25/21 10:25	02/26/21 17:02	
410-30627-8	HD-COD-SW-17-0/1-0	Water	02/25/21 10:40	02/26/21 17:02	
410-30627-9	HD-COD-SW-26-0/1-0	Water	02/25/21 11:25	02/26/21 17:02	
410-30627-10	HD-COD-SW-27-0/1-0	Water	02/25/21 12:05	02/26/21 17:02	
410-30627-11	HD-COD-SW-28-0/1-0	Water	02/25/21 12:55	02/26/21 17:02	
410-30627-12	HD-COD-SW-29-0/1-0	Water	02/25/21 09:25	02/26/21 17:02	
410-30627-13	HD-QC1-0/1-1	Water	02/25/21 12:00	02/26/21 17:02	
410-30627-14	HD-QC1-0/1-2	Water	02/25/21 00:00	02/26/21 17:02	

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-30627-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 70996

Lab Sample ID: IC 410-70996/3 Client Sample ID:

Date Analyzed: 11/30/20 12:50 Lab File ID: GN30I01.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.95	Other	virayd	12/01/20 11:38
1,2-Dichloroethane	7.33	Other	virayd	12/01/20 11:38

Lab Sample ID: ICIS 410-70996/4 Client Sample ID:

Date Analyzed: 11/30/20 13:12 Lab File ID: GN30I02.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.56	Other	virayd	12/01/20 11:45

Lab Sample ID: IC 410-70996/5 Client Sample ID:

Date Analyzed: 11/30/20 13:34 Lab File ID: GN30I03.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol	4.31	Other	virayd	12/01/20 11:47
1,2-Dichloroethane	7.33	Other	virayd	12/01/20 11:47
1,4-Dioxane	8.57	Other	virayd	12/01/20 11:47

Lab Sample ID: IC 410-70996/6 Client Sample ID:

Date Analyzed: 11/30/20 13:56 Lab File ID: GN30I04.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.97	Other	virayd	12/01/20 11:49
t-Butyl alcohol	4.34	Other	virayd	12/01/20 11:49
1,4-Dioxane	8.57	Other	virayd	12/01/20 11:49

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-30627-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 70996

Lab Sample ID: IC 410-70996/7 Client Sample ID:

Date Analyzed: 11/30/20 14:19 Lab File ID: GN30I05.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.97	Other	virayd	12/01/20 11:51
n-Butanol	8.05	Other	virayd	12/01/20 11:51
1,4-Dioxane	8.57	Other	virayd	12/01/20 11:52

Lab Sample ID: IC 410-70996/8 Client Sample ID:

Date Analyzed: 11/30/20 14:41 Lab File ID: GN30I06.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.96	Other	virayd	12/01/20 11:53
1,3-Butadiene	2.26	Other	virayd	12/01/20 11:53
Bromomethane	2.59	Other	virayd	12/01/20 11:53
Dichlorofluoromethane	2.90	Other	virayd	12/01/20 11:53
Ethyl ether	3.21	Other	virayd	12/01/20 11:53
Acetone	3.55	Other	virayd	12/01/20 11:54
Methyl iodide	3.71	Other	virayd	12/01/20 11:54
t-Butyl alcohol	4.34	Other	virayd	12/01/20 11:54
2,2-Dichloropropane	6.10	Other	virayd	12/01/20 11:54
Carbon tetrachloride	6.99	Other	virayd	12/01/20 11:55
1,4-Dioxane	8.57	Other	virayd	12/01/20 11:55
Dibromomethane	8.58	Other	virayd	12/01/20 11:55

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-30627-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 70996

Lab Sample ID: IC 410-70996/9 Client Sample ID:

Date Analyzed: 11/30/20 15:03 Lab File ID: GN30I07.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.25	Other	virayd	12/01/20 11:56
Vinyl chloride	2.25	Other	virayd	12/01/20 11:57
Dichlorofluoromethane	2.90	Other	virayd	12/01/20 11:57
Trichlorofluoromethane	2.96	Other	virayd	12/01/20 11:57
Ethyl ether	3.20	Other	virayd	12/01/20 11:57
Acrolein	3.37	Other	virayd	12/01/20 11:57
Acetone	3.54	Other	virayd	12/01/20 11:58
Methyl acetate	3.96	Other	virayd	12/01/20 11:58
Allyl chloride	3.98	Other	virayd	12/01/20 11:58
Methylene Chloride	4.16	Other	virayd	12/01/20 11:58
t-Butyl alcohol	4.32	Other	virayd	12/01/20 11:58
2,2-Dichloropropane	6.08	Other	virayd	12/01/20 11:58
Methacrylonitrile	6.35	Other	virayd	12/01/20 11:58
1,1,1-Trichloroethane	6.79	Other	virayd	12/01/20 11:59
Cyclohexane	6.87	Other	virayd	12/01/20 11:59
Carbon tetrachloride	6.99	Other	virayd	12/01/20 11:59
Isobutyl alcohol	7.17	Other	virayd	12/01/20 11:59
Trichloroethene	8.14	Other	virayd	12/01/20 11:59
Methyl methacrylate	8.56	Other	virayd	12/01/20 11:59
1,4-Dioxane	8.57	Other	virayd	12/01/20 11:59

Lab Sample ID: ICV 410-70996/10 Client Sample ID:

Date Analyzed: 11/30/20 15:26 Lab File ID: GN30V01.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane	7.34	Other	virayd	12/01/20 12:02
1,4-Dioxane	8.57	Other	virayd	12/01/20 12:02

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-30627-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 99025

Lab Sample ID: CCVIS 410-99025/3 Client Sample ID:

Date Analyzed: 03/03/21 09:17 Lab File ID: GM03X03.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.57	Incomplete Integration	knouses	03/03/21 09:59

Lab Sample ID: 410-30627-1 Client Sample ID: HD-COD-SW-6-0/1-0

Date Analyzed: 03/03/21 15:30 Lab File ID: GM03X20.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.81	Incomplete Integration	campbellme	03/03/21 17:58
Methylene Chloride	4.17	Incomplete Integration	campbellme	03/03/21 17:58

Lab Sample ID: 410-30627-2 Client Sample ID: HD-COD-SW-7-0/1-0

Date Analyzed: 03/03/21 15:52 Lab File ID: GM03X21.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.80	Incomplete Integration	campbellme	03/03/21 17:59
Methylene Chloride	4.17	Incomplete Integration	campbellme	03/03/21 17:59
cis-1,2-Dichloroethene	6.07	Incomplete Integration	campbellme	03/03/21 17:59
Chloroform	6.57	Incomplete Integration	campbellme	03/03/21 17:59

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-30627-1

SDG No.:

Instrument ID: 16334 Analysis Batch Number: 99025

Lab Sample ID: 410-30627-3 Client Sample ID: HD-COD-SW-8-0/1-0

Date Analyzed: 03/03/21 16:14 Lab File ID: GM03X22.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.80	Incomplete Integration	campbellme	03/03/21 17:59
Methylene Chloride	4.15	Incomplete Integration	campbellme	03/03/21 17:59

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-30627-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 69397

Lab Sample ID: IC 410-69397/3 Client Sample ID:

Date Analyzed: 11/23/20 12:45 Lab File ID: IN23I01.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.98	Incomplete Integration	campbellme	11/23/20 18:24
t-Butyl alcohol-d10 (IS)	4.26	Incomplete Integration	campbellme	11/23/20 18:45
1,4-Dioxane	8.64	Incomplete Integration	campbellme	11/23/20 18:45

Lab Sample ID: ICIS 410-69397/4 Client Sample ID:

Date Analyzed: 11/23/20 13:06 Lab File ID: IN23I02.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.61	Incomplete Integration	campbellme	11/23/20 18:34
Methyl acetate	4.04	Incomplete Integration	campbellme	11/23/20 18:25
t-Butyl alcohol-d10 (IS)	4.26	Incomplete Integration	campbellme	11/23/20 18:26
n-Butanol	8.10	Incomplete Integration	campbellme	11/23/20 18:26
1,4-Dioxane	8.64	Incomplete Integration	campbellme	11/23/20 18:26

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-30627-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 69397

Lab Sample ID: IC 410-69397/5 Client Sample ID:

Date Analyzed: 11/23/20 13:28 Lab File ID: IN23I03.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.62	Incomplete Integration	campbellme	11/23/20 18:30
Methyl acetate	4.04	Incomplete Integration	campbellme	11/23/20 18:30
t-Butyl alcohol-d10 (IS)	4.26	Incomplete Integration	campbellme	11/23/20 18:44
n-Butanol	8.10	Incomplete Integration	campbellme	11/23/20 18:31
1,4-Dioxane	8.64	Incomplete Integration	campbellme	11/23/20 18:31

Lab Sample ID: IC 410-69397/6 Client Sample ID:

Date Analyzed: 11/23/20 13:49 Lab File ID: IN23I04.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	2.30	Incomplete Integration	campbellme	11/23/20 18:34
Methyl acetate	4.04	Incomplete Integration	campbellme	11/23/20 18:35
t-Butyl alcohol-d10 (IS)	4.26	Incomplete Integration	campbellme	11/23/20 18:43
1,4-Dioxane	8.64	Incomplete Integration	campbellme	11/23/20 18:35

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-30627-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 69397

Lab Sample ID: IC 410-69397/7 Client Sample ID:

Date Analyzed: 11/23/20 14:10 Lab File ID: IN23I05.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	4.03	Incomplete Integration	campbellme	11/23/20 18:36
t-Butyl alcohol-d10 (IS)	4.27	Incomplete Integration	campbellme	11/23/20 18:43
n-Butanol	8.10	Incomplete Integration	campbellme	11/23/20 18:37
1,4-Dioxane	8.67	Incomplete Integration	campbellme	11/23/20 18:37

Lab Sample ID: IC 410-69397/8 Client Sample ID:

Date Analyzed: 11/23/20 14:31 Lab File ID: IN23I06.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	2.29	Incomplete Integration	campbellme	11/23/20 18:38
Acetone	3.61	Incomplete Integration	campbellme	11/23/20 18:38
Methyl acetate	4.04	Incomplete Integration	campbellme	11/23/20 18:38
t-Butyl alcohol-d10 (IS)	4.25	Incomplete Integration	campbellme	11/23/20 18:43
Tetrahydrofuran	6.50	Incomplete Integration	campbellme	11/23/20 18:38
n-Butanol	8.11	Incomplete Integration	campbellme	11/23/20 18:38
1,4-Dioxane	8.63	Incomplete Integration	campbellme	11/23/20 18:38

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-30627-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 69397

Lab Sample ID: IC 410-69397/9 Client Sample ID:

Date Analyzed: 11/23/20 14:53 Lab File ID: IN23I07.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.28	Incomplete Integration	campbellme	11/23/20 18:39
t-Butyl alcohol-d10 (IS)	4.27	Incomplete Integration	campbellme	11/23/20 18:42
Acrylonitrile	4.61	Incomplete Integration	campbellme	11/23/20 18:39
trans-1,2-Dichloroethene	4.67	Incomplete Integration	campbellme	11/23/20 18:39
Propionitrile	6.23	Incomplete Integration	campbellme	11/23/20 18:39
n-Butanol	8.12	Incomplete Integration	campbellme	11/23/20 18:40
1,4-Dioxane	8.65	Incomplete Integration	campbellme	11/23/20 18:40
Dibromomethane	8.66	Incomplete Integration	campbellme	11/23/20 18:40

Lab Sample ID: ICV 410-69397/10 Client Sample ID:

Date Analyzed: 11/23/20 15:14 Lab File ID: IN23V01.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	4.03	Incomplete Integration	campbellme	11/23/20 18:56
n-Butanol	8.10	Incomplete Integration	campbellme	11/23/20 18:56
1,4-Dioxane	8.64	Incomplete Integration	campbellme	11/23/20 18:57

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-30627-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 99333

Lab Sample ID: CCVIS 410-99333/3 Client Sample ID:

Date Analyzed: 03/03/21 19:28 Lab File ID: IM03C31.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.98	Incomplete Integration	campbellme	03/03/21 20:11
1,4-Dioxane	8.63	Incomplete Integration	campbellme	03/03/21 20:12

Lab Sample ID: 410-30627-14 Client Sample ID: HD-QC1-0/1-2

Date Analyzed: 03/03/21 21:36 Lab File ID: IM03S31.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane	7.43	Missed Peak	knouses	03/04/21 12:19

Lab Sample ID: 410-30627-4 Client Sample ID: HD-COD-SW-9-0/1-0

Date Analyzed: 03/03/21 23:02 Lab File ID: IM03S35.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.19	Incomplete Integration	knouses	03/04/21 12:33
Benzene	7.33	Incomplete Integration	knouses	03/04/21 12:34
Trichloroethene	8.21	Incomplete Integration	knouses	03/04/21 12:36
Bromodichloromethane	8.90	Incomplete Integration	knouses	03/04/21 12:36
Styrene	11.76	Incomplete Integration	knouses	03/04/21 12:37

Lab Sample ID: 410-30627-5 Client Sample ID: HD-COD-SW-13-0/1-0

Date Analyzed: 03/03/21 23:23 Lab File ID: IM03S36.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.17	Incomplete Integration	knouses	03/04/21 12:37
Chloroform	6.65	Missed Peak	knouses	03/04/21 12:38

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-30627-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 99333

Lab Sample ID: 410-30627-6 Client Sample ID: HD-COD-SW-15-0/1-0

Date Analyzed: 03/03/21 23:44 Lab File ID: IM03S37.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl tert-butyl ether	4.66	Incomplete Integration	knouses	03/04/21 12:39
Benzene	7.34	Missed Peak	knouses	03/04/21 12:40

Lab Sample ID: 410-30627-7 Client Sample ID: HD-COD-SW-16-0/1-0

Date Analyzed: 03/04/21 01:31 Lab File ID: IM03S42.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.20	Missed Peak	knouses	03/04/21 12:44
Carbon disulfide	3.89	Incomplete Integration	knouses	03/04/21 12:44
Chloroform	6.66	Missed Peak	knouses	03/04/21 12:45
1,2-Dichloroethane	7.40	Missed Peak	knouses	03/04/21 12:45

Lab Sample ID: 410-30627-8 Client Sample ID: HD-COD-SW-17-0/1-0

Date Analyzed: 03/04/21 01:52 Lab File ID: IM03S43.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	6.17	Missed Peak	knouses	03/04/21 12:46
1,2-Dichloroethane	7.41	Missed Peak	knouses	03/04/21 12:46
Trichloroethene	8.22	Incomplete Integration	knouses	03/04/21 12:46

Lab Sample ID: 410-30627-9 Client Sample ID: HD-COD-SW-26-0/1-0

Date Analyzed: 03/04/21 02:13 Lab File ID: IM03S44.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane	7.40	Missed Peak	knouses	03/04/21 12:47

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-30627-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 99333

Lab Sample ID: 410-30627-10 Client Sample ID: HD-COD-SW-27-0/1-0

Date Analyzed: 03/04/21 02:35 Lab File ID: IM03S45.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloroform	6.64	Missed Peak	knouses	03/04/21 12:48
Benzene	7.33	Incomplete Integration	knouses	03/04/21 12:48
1,2-Dichloroethane	7.42	Missed Peak	knouses	03/04/21 12:49

Lab Sample ID: 410-30627-11 Client Sample ID: HD-COD-SW-28-0/1-0

Date Analyzed: 03/04/21 02:56 Lab File ID: IM03S46.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	6.15	Missed Peak	knouses	03/04/21 12:49
Benzene	7.34	Incomplete Integration	knouses	03/04/21 12:50
1,2-Dichloroethane	7.41	Missed Peak	knouses	03/04/21 12:50
Trichloroethene	8.23	Incomplete Integration	knouses	03/04/21 12:50
Bromodichloromethane	8.89	Incomplete Integration	knouses	03/04/21 12:50
Styrene	11.77	Incomplete Integration	knouses	03/04/21 12:51

Lab Sample ID: 410-30627-12 Client Sample ID: HD-COD-SW-29-0/1-0

Date Analyzed: 03/04/21 03:17 Lab File ID: IM03S47.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,2-Dichloroethene	6.17	Missed Peak	knouses	03/04/21 12:52
Chloroform	6.64	Missed Peak	knouses	03/04/21 12:52
1,2-Dichloroethane	7.41	Missed Peak	knouses	03/04/21 12:52
Tetrachloroethene	10.35	Incomplete Integration	knouses	03/04/21 12:52

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laborator Job No.: 410-30627-1

SDG No.:

Instrument ID: 19930 Analysis Batch Number: 99333

Lab Sample ID: 410-30627-13 Client Sample ID: HD-QC1-0/1-1

Date Analyzed: 03/04/21 03:38 Lab File ID: IM03S48.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.19	Missed Peak	knouses	03/04/21 12:53
Chloroform	6.64	Missed Peak	knouses	03/04/21 12:53
Benzene	7.33	Incomplete Integration	knouses	03/04/21 12:54
1,2-Dichloroethane	7.41	Missed Peak	knouses	03/04/21 12:54
Trichloroethene	8.23	Incomplete Integration	knouses	03/04/21 12:54
o-Xylene	11.74	Missed Peak	knouses	03/04/21 12:55

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_29_826ISS_00013	05/16/21	11/16/20	Methanol, Lot DZ644	10 mL	MSV_8260_SS_00263	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_00151	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_00263	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_00151	05/31/21		Restek, Lot A0138205		(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_00015	05/31/21	02/09/21	Methanol, Lot DZ644	10 mL	MSV_Cus826_IS_00180	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_00180	05/31/21		Restek, Lot A0138205		(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_00015	05/31/21	02/09/21	Methanol, Lot DZ644	10 mL	MSV_8260_SS_00294	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_00294	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_31_826ISS_00003	01/27/21	07/27/20	Methanol, Lot DX212	50 mL	MSV_8260_SS_00160	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_00099	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_00160	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_00099	05/31/21		Restek, Lot A0138205		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_31_826ISS_00004	05/31/21	01/26/21	Methanol, Lot DZ644	50 mL	MSV_Cus826_IS_00173	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_00173	05/31/21		Restek, Lot A0138205		(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_31_826ISS_00004	05/31/21	01/26/21	Methanol, Lot DZ644	50 mL	MSV_8260_SS_00284	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.MSV_8260_SS_00284	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_Q_QVOA1_00056	12/23/20	11/23/20	Methanol, Lot DZ644	25 mL	MSV_Q#1B_00070	1 mL	1,1,1,2-Tetrachloroethane	40 mg/L
							1,1,1-Trichloroethane	40 mg/L
							1,1,2,2-Tetrachloroethane	40 mg/L
							1,1,2-Trichloroethane	40 mg/L
							1,1-Dichloroethane	40 mg/L
							1,1-Dichloroethene	40 mg/L
							1,2-Dibromoethane (EDB)	40 mg/L
							1,2-Dichloroethane	40 mg/L
							1,2-Dichloropropane	40 mg/L
							Benzene	40 mg/L
							Bromodichloromethane	40 mg/L
							Bromoform	40 mg/L
							Carbon tetrachloride	40 mg/L
							Chlorobenzene	40 mg/L
							Chloroform	40 mg/L
							cis-1,2-Dichloroethene	40 mg/L
							cis-1,3-Dichloropropene	40 mg/L
							Dibromochloromethane	40 mg/L
							Ethylbenzene	40 mg/L
							Methylene Chloride	40 mg/L
							Styrene	40 mg/L
							Tetrachloroethene	40 mg/L
							Toluene	40 mg/L
							trans-1,2-Dichloroethene	40 mg/L
							trans-1,3-Dichloropropene	40 mg/L
							Trichloroethene	40 mg/L
					MSV_Q#3B_00062	1 mL	2-Butanone (MEK)	300 mg/L
							2-Hexanone	200 mg/L
							4-Methyl-2-pentanone (MIBK)	200 mg/L
							Acetone	300 mg/L

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSV_Q#4C_00065	1 mL	Carbon disulfide	40 mg/L
							Methyl tert-butyl ether	40 mg/L
.MSV_Q#1B_00070	04/30/22		Restek, Lot A0148625		(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
							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_Q#3B_00062	09/30/21		Restek, Lot A0158722		(Purchased Reagent)		2-Butanone (MEK)	7500 ug/mL
							2-Hexanone	5000 ug/mL
							4-Methyl-2-pentanone (MIBK)	5000 ug/mL
							Acetone	7500 ug/mL
.MSV_Q#4C_00065	03/31/21		Restek, Lot A0158704		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
MSV_Q_QVOA1_00057	12/30/20	11/30/20	Methanol, Lot DZ644	25 mL	MSV_Q#1B_00071	1 mL	1,1,1,2-Tetrachloroethane	40 mg/L
							1,1,1-Trichloroethane	40 mg/L
							1,1,2,2-Tetrachloroethane	40 mg/L
							1,1,2-Trichloroethane	40 mg/L
							1,1-Dichloroethane	40 mg/L
							1,1-Dichloroethene	40 mg/L
							1,2-Dibromoethane (EDB)	40 mg/L
							1,2-Dichloroethane	40 mg/L
							1,2-Dichloropropane	40 mg/L
							Benzene	40 mg/L
							Bromodichloromethane	40 mg/L
							Bromoform	40 mg/L
							Carbon tetrachloride	40 mg/L

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	40 mg/L
							Chloroform	40 mg/L
							cis-1,2-Dichloroethene	40 mg/L
							cis-1,3-Dichloropropene	40 mg/L
							Dibromochloromethane	40 mg/L
							Ethylbenzene	40 mg/L
							Methylene Chloride	40 mg/L
							Styrene	40 mg/L
							Tetrachloroethene	40 mg/L
							Toluene	40 mg/L
							trans-1,2-Dichloroethene	40 mg/L
							trans-1,3-Dichloropropene	40 mg/L
							Trichloroethene	40 mg/L
					MSV_Q#3B_00063	1 mL	2-Butanone (MEK)	300 mg/L
							2-Hexanone	200 mg/L
							4-Methyl-2-pentanone (MIBK)	200 mg/L
							Acetone	300 mg/L
					MSV_Q#4C_00066	1 mL	Carbon disulfide	40 mg/L
							Methyl tert-butyl ether	40 mg/L
.MSV_Q#1B_00071	04/30/22		Restek, Lot A0148625		(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
							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_Q#3B_00063	09/30/21		Restek, Lot A0158722		(Purchased Reagent)		2-Butanone (MEK)	7500 ug/mL
							2-Hexanone	5000 ug/mL
							4-Methyl-2-pentanone (MIBK)	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	7500 ug/mL
.MSV_Q#4C_00066	03/31/21		Restek, Lot A0158704		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
MSV_Q_QVOA1_00070	03/31/21	03/01/21	Methanol, Lot DZ644	25 mL	MSV_Q#1B_00088	1 mL	1,1,1,2-Tetrachloroethane	40 mg/L
							1,1,1-Trichloroethane	40 mg/L
							1,1,2,2-Tetrachloroethane	40 mg/L
							1,1,2-Trichloroethane	40 mg/L
							1,1-Dichloroethane	40 mg/L
							1,1-Dichloroethene	40 mg/L
							1,2-Dibromoethane (EDB)	40 mg/L
							1,2-Dichloroethane	40 mg/L
							1,2-Dichloropropane	40 mg/L
							Benzene	40 mg/L
							Bromodichloromethane	40 mg/L
							Bromoform	40 mg/L
							Carbon tetrachloride	40 mg/L
							Chlorobenzene	40 mg/L
							Chloroform	40 mg/L
							cis-1,2-Dichloroethene	40 mg/L
							cis-1,3-Dichloropropene	40 mg/L
							Dibromochloromethane	40 mg/L
							Ethylbenzene	40 mg/L
							Methylene Chloride	40 mg/L
							Styrene	40 mg/L
							Tetrachloroethene	40 mg/L
							Toluene	40 mg/L
							trans-1,2-Dichloroethene	40 mg/L
							trans-1,3-Dichloropropene	40 mg/L
							Trichloroethene	40 mg/L
					MSV_Q#3B_00078	1 mL	2-Butanone (MEK)	300 mg/L
							2-Hexanone	200 mg/L
							4-Methyl-2-pentanone (MIBK)	200 mg/L
							Acetone	300 mg/L
					MSV_Q#4C_00085	1 mL	Carbon disulfide	40 mg/L
							Methyl tert-butyl ether	40 mg/L
.MSV_Q#1B_00088	04/30/22		Restek, Lot A0165522		(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
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
.MSV_Q#3B_00078	09/30/21		Restek, Lot A0158722		(Purchased Reagent)		2-Butanone (MEK)	7500 ug/mL
							2-Hexanone	5000 ug/mL
							4-Methyl-2-pentanone (MIBK)	5000 ug/mL
							Acetone	7500 ug/mL
.MSV_Q#4C_00085	03/31/21		Restek, Lot A0158704		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
MSV_Q_QVOA6_00053	12/19/20	11/19/20	Methanol, Lot DZ644	25 mL	MSV_QCS#6Std_00064	1 mL	Bromochloromethane	40 ug/mL
.MSV_QCS#6Std_00064	12/19/20		Restek, Lot A0158906		(Purchased Reagent)		Bromochloromethane	1000 ug/mL
MSV_Q_QVOA6_00054	12/25/20	11/25/20	Methanol, Lot DZ644	25 mL	MSV_QCS#6Std_00074	1 mL	Bromochloromethane	40 ug/mL
.MSV_QCS#6Std_00074	09/30/21		Restek, Lot A0158906		(Purchased Reagent)		Bromochloromethane	1000 ug/mL
MSV_Q_QVOA6_00068	03/31/21	03/01/21	Methanol, Lot DZ644	25 mL	MSV_QCS#6Std_00084	1 mL	Bromochloromethane	40 ug/mL
.MSV_QCS#6Std_00084	09/30/21		Restek, Lot A0158906		(Purchased Reagent)		Bromochloromethane	1000 ug/mL
MSV_QGAS_826_00092	11/30/20	11/23/20	Methanol, Lot DZ644	1 mL	MSV_502QGas_00119	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_502QGas_00119	11/30/20		Restek, Lot A0155823		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_QGAS_826_00093	12/07/20	11/30/20	Methanol, Lot DZ644	1 mL	MSV_502QGas_00120	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_502QGas_00120	12/07/20		Restek, Lot A0155823		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_QGAS_826_00112	03/08/21	03/01/21	Methanol, Lot DZ644	1 mL	MSV_502QGas_00150	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	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		
.MSV_502QGas_00150	03/08/21		Restek, Lot A0155823		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_RV1_826_00030	12/23/20	11/23/20	Methanol, Lot DZ644	1 mL	MSV_V#1B_00126	10 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trichlorobenzene	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
							1-Chlorohexane	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
							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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
					MSV_V#2B_00159	10 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	5000 ug/mL
							Propionitrile	1000 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_V#4C_00106	10 uL	1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,2-Dichloro-1,1,2-trifluoroethane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							Benzyl chloride	50 ug/mL
							Butadiene	50 ug/mL
							Carbon disulfide	50 ug/mL
							Cyclohexane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isopropyl ether	50 ug/mL
							Methyl methacrylate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							n-Heptane	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
					MSV_V_VOA2_00059	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	5000 ug/mL
							Propionitrile	1000 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_V_VOA3_00056	100 uL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							2-Nitropropane	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acrylonitrile	250 ug/mL
							Tetrahydrofuran	500 ug/mL
							Acrolein	2500.07 ug/mL
.MSV_V#1B_00126	12/23/20		Restek, Lot A0158586		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trichlorobenzene	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
							1-Chlorohexane	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
							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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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_V#2B_00159	12/23/20		Restek, Lot A0159694		(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_V#4C_00106	12/23/20		Restek, Lot A0158660		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2-Dichloro-1,1,2-trifluoroethane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL
							Benzyl chloride	5000 ug/mL
							Butadiene	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Hexane	5000 ug/mL
							Iodomethane	5000 ug/mL
							Isopropyl ether	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
							n-Heptane	5000 ug/mL
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	5000 ug/mL
.MSV_V_VOA2_00059	12/23/20	11/23/20	Methanol, Lot DZ644	5 mL	MSV_V#2B_00159	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_00159	12/23/20		Restek, Lot A0159694		(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

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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_V_VOA3_00056	12/23/20	11/23/20	Methanol, Lot DZ644	5 mL	MSV_V#3B_00069	1 mL	2-Butanone (MEK)	5000 ug/mL
							2-Hexanone	5000 ug/mL
							2-Nitropropane	5000 ug/mL
							4-Methyl-2-pentanone (MIBK)	5000 ug/mL
							Acetone	5000 ug/mL
							Acrylonitrile	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
					MSV_VACR_00013	1 mL	Acrolein	25000.7 ug/mL
..MSV_V#3B_00069	12/23/20	Restek, Lot A0158677			(Purchased Reagent)		2-Butanone (MEK)	25000 ug/mL
							2-Hexanone	25000 ug/mL
							2-Nitropropane	25000 ug/mL
							4-Methyl-2-pentanone (MIBK)	25000 ug/mL
							Acetone	25000 ug/mL
							Acrylonitrile	12500 ug/mL
							Tetrahydrofuran	25000 ug/mL
..MSV_VACR_00013	12/26/20	10/27/20	Methanol, Lot DX212	10 mL	MSV_VACR_STK_00015	9.067 mL	Acrolein	125004 ug/mL
...MSV_VACR_STK_00015	12/26/20	10/27/20	Methanol, Lot DX212	10 mL	MSV_ACROLEIN_00008	1.462 g	Acrolein	137867 ug/mL
....MSV_ACROLEIN_00008	12/31/20	Chem Service, Lot 10410200			(Purchased Reagent)		Acrolein	0.943 g/g
MSV_RV1_826_00031	12/26/20	11/30/20	Methanol, Lot DZ644	1 mL	MSV_V#1B_00127	10 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane (EDB)	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trichlorobenzene	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
							1-Chlorohexane	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
							Bromodichloromethane	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		
							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
					MSV_V#2B_00161	10 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	5000 ug/mL
							Propionitrile	1000 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_V#4C_00107	10 uL	1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,2-Dichloro-1,1,2-trifluoroethane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							Benzyl chloride	50 ug/mL
							Butadiene	50 ug/mL
							Carbon disulfide	50 ug/mL
							Cyclohexane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isopropyl ether	50 ug/mL
							Methyl methacrylate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							n-Heptane	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		
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
					MSV_V_VOA2_00060	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	5000 ug/mL
							Propionitrile	1000 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_V_VOA3_00057	100 uL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							2-Nitropropane	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
							Acrylonitrile	250 ug/mL
							Tetrahydrofuran	500 ug/mL
							Acrolein	2500.07 ug/mL
.MSV_V#1B_00127	12/30/20		Restek, Lot A0158586		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trichlorobenzene	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
							1-Chlorohexane	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
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	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		
							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_V#2B_00161	12/30/20		Restek, Lot A0159694		(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_V#4C_00107	12/30/20		Restek, Lot A0158660		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2-Dichloro-1,1,2-trifluoroethane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL
							Benzyl chloride	5000 ug/mL
							Butadiene	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Hexane	5000 ug/mL
							Iodomethane	5000 ug/mL
							Isopropyl ether	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
							n-Heptane	5000 ug/mL
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	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		
.MSV_V_VOA2_00060	12/30/20	11/30/20	Methanol, Lot DZ644	5 mL	MSV_V#2B_00161	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_00161	12/30/20		Restek, Lot A0159694		(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_V_VOA3_00057	12/26/20	11/30/20	Methanol, Lot DZ644	5 mL	MSV_V#3B_00070	1 mL	2-Butanone (MEK)	5000 ug/mL
							2-Hexanone	5000 ug/mL
							2-Nitropropane	5000 ug/mL
							4-Methyl-2-pentanone (MIBK)	5000 ug/mL
							Acetone	5000 ug/mL
							Acrylonitrile	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
					MSV_VACR_00013	1 mL	Acrolein	25000.7 ug/mL
..MSV_V#3B_00070	12/30/20		Restek, Lot A0158677		(Purchased Reagent)		2-Butanone (MEK)	25000 ug/mL
							2-Hexanone	25000 ug/mL
							2-Nitropropane	25000 ug/mL
							4-Methyl-2-pentanone (MIBK)	25000 ug/mL
							Acetone	25000 ug/mL
							Acrylonitrile	12500 ug/mL
							Tetrahydrofuran	25000 ug/mL
..MSV_VACR_00013	12/26/20	10/27/20	Methanol, Lot DX212	10 mL	MSV_VACR_STK_00015	9.067 mL	Acrolein	125004 ug/mL
...MSV_VACR_STK_00015	12/26/20	10/27/20	Methanol, Lot DX212	10 mL	MSV_ACROLEIN_00008	1.462 g	Acrolein	137867 ug/mL
....MSV_ACROLEIN_00008	12/31/20		Chem Service, Lot 10410200		(Purchased Reagent)		Acrolein	0.943 g/g
MSV_RV1_826_00040	03/24/21	02/22/21	Methanol, Lot DZ644	1 mL	MSV_V#1B_00144	10 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
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
					MSV_V#4C_00124	10 uL	Carbon disulfide	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
					MSV_V_VOA3_00070	100 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_V#1B_00144	03/24/21		Restek, Lot A0158586		(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
							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_V#4C_00124	03/24/21		Restek, Lot A0158660		(Purchased Reagent)		Carbon disulfide	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
.MSV_V_VOA3_00070	03/24/21	02/22/21	Methanol, Lot DZ644	5 mL	MSV_V#3B_00083	1 mL	2-Butanone (MEK)	5000 ug/mL
							2-Hexanone	5000 ug/mL
							4-Methyl-2-pentanone (MIBK)	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	5000 ug/mL
..MSV_V#3B_00083	03/31/23		Restek, Lot A0158677		(Purchased Reagent)		2-Butanone (MEK)	25000 ug/mL
							2-Hexanone	25000 ug/mL
							4-Methyl-2-pentanone (MIBK)	25000 ug/mL
							Acetone	25000 ug/mL
MSV_RV4_826_00034	12/19/20	11/23/20	Methanol, Lot DZ644	1 mL	MSV_V_EE_00004	50 uL	Ethyl ether	50.0108 ug/mL
					MSV_V_VOA6_00062	50 uL	1,2,3-Trimethylbenzene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Methyl acetate	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Pentachloroethane	50 ug/mL
.MSV_V_EE_00004	04/21/21	10/21/20	Methanol, Lot DX212	100 mL	MSV_EE_MISCSK_00005	1.434 mL	Ethyl ether	1000.22 ug/mL
..MSV_EE_MISCSK_00005	04/21/21	10/21/20	Methanol, Lot DX212	10 mL	MSV_EE_Neat_00003	0.6975 g	Ethyl ether	69750 ug/mL
...MSV_EE_Neat_00003	11/30/21		Chem Service, Lot 7967000		(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_VOA6_00062	12/19/20	11/19/20	Methanol, Lot DZ644	5 mL	MSV_V#6_00045	1 mL	1,2,3-Trimethylbenzene	1000 ug/mL
							3-Chloro-1-propene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Methyl acetate	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							Pentachloroethane	1000 ug/mL
..MSV_V#6_00045	12/19/20		Restek, Lot A0158625		(Purchased Reagent)		1,2,3-Trimethylbenzene	5000 ug/mL
							3-Chloro-1-propene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Methyl acetate	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
							Pentachloroethane	5000 ug/mL
MSV_RV4_826_00035	12/19/20	11/30/20	Methanol, Lot DZ644	1 mL	MSV_V_EE_00004	50 uL	Ethyl ether	50.0108 ug/mL
					MSV_V_VOA6_00063	50 uL	1,2,3-Trimethylbenzene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Methyl acetate	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Pentachloroethane	50 ug/mL
.MSV_V_EE_00004	04/21/21	10/21/20	Methanol, Lot DX212	100 mL	MSV_EE_MISCSK_00005	1.434 mL	Ethyl ether	1000.22 ug/mL
..MSV_EE_MISCSK_00005	04/21/21	10/21/20	Methanol, Lot DX212	10 mL	MSV_EE_Neat_00003	0.6975 g	Ethyl ether	69750 ug/mL
...MSV_EE_Neat_00003	11/30/21		Chem Service, Lot 7967000		(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_VOA6_00063	12/25/20	11/25/20	Methanol, Lot DZ644	5 mL	MSV_V#6_00046	1 mL	1,2,3-Trimethylbenzene	1000 ug/mL
							3-Chloro-1-propene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Methyl acetate	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							Pentachloroethane	1000 ug/mL
..MSV_V#6_00046	12/25/20		Restek, Lot A0158625		(Purchased Reagent)		1,2,3-Trimethylbenzene	5000 ug/mL
							3-Chloro-1-propene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Methyl acetate	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylcyclohexane	5000 ug/mL
							Pentachloroethane	5000 ug/mL
MSV_RV4_826_00045	03/24/21	02/22/21	Methanol, Lot DZ644	1 mL	MSV_V_VOA6_00076	50 uL	Bromochloromethane	50 ug/mL
.MSV_V_VOA6_00076	03/24/21	02/22/21	Methanol, Lot DZ644	5 mL	MSV_V#6_00060	1 mL	Bromochloromethane	1000 ug/mL
..MSV_V#6_00060	03/24/21		Restek, Lot A0158625		(Purchased Reagent)		Bromochloromethane	5000 ug/mL
MSV_RV4GAS826_00096	11/30/20	11/23/20	Methanol, Lot DZ644	1 mL	MSV_DCFM_00030	25 uL	Dichlorofluoromethane	50 ug/mL
					MSV_V_Gas_00175	25 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_DCFM_00030	12/19/20		AccuStandard, Lot 220101035		(Purchased Reagent)		Dichlorofluoromethane	2000 ug/mL
.MSV_V_Gas_00175	11/30/20		Restek, Lot A0159812		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_RV4GAS826_00097	12/07/20	11/30/20	Methanol, Lot DZ644	1 mL	MSV_DCFM_00030	25 uL	Dichlorofluoromethane	50 ug/mL
					MSV_V_Gas_00176	25 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_DCFM_00030	12/19/20		AccuStandard, Lot 220101035		(Purchased Reagent)		Dichlorofluoromethane	2000 ug/mL
.MSV_V_Gas_00176	12/07/20		Restek, Lot A0159812		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_RV4GAS826_00115	03/08/21	03/01/21	Methanol, Lot DZ644	1 mL	MSV_V_Gas_00220	25 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_V_Gas_00220	03/08/21		Restek, Lot A0159812		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_V_BFB_00003							1,2-Dichloroethene, Total	
							1,3-Dichlorobutene-2(total)	
							1,3-Dichloropropene, Total	
							divinyl benzene	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tentatively Identified Compound	
							Total Diethylbenzene	
							Xylenes, Total	
					MSV_VBFB_STK_00004	0.117 mL	BFB	50.0245 ug/mL
.MSV_VBFB_STK_00004	01/22/21	07/22/20	Methanol, Lot DX212	10 mL	MSV_4BFB_NEAT_00002	1.0689 g	BFB	106890 ug/mL
..MSV_4BFB_NEAT_00002	01/31/21	Chem Service, Lot 8601300			(Purchased Reagent)		BFB	1 g/g
MSV_V_BFB_00004							1,2-Dichloroethene, Total	
							1,3-Dichlorobutene-2(total)	
							1,3-Dichloropropene, Total	
							divinyl benzene	
							Tentatively Identified Compound	
							Total Diethylbenzene	
							Xylenes, Total	
					MSV_VBFB_STK_00005	0.124 mL	BFB	49.8282 ug/mL
.MSV_VBFB_STK_00005	07/14/21	01/14/21	Methanol, Lot DZ644	10 mL	MSV_4BFB_NEAT_00004	1.0046 g	BFB	100460 ug/mL
..MSV_4BFB_NEAT_00004	02/28/25	Chem Service, Lot 10727100			(Purchased Reagent)		BFB	1 g/g

Reagent

MSV_4BFB_NEAT_00002

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

4-Bromofluorobenzene

CATALOG NUMBER	N-10809-1G
LOT NUMBER	8601300
DATE CERTIFIED	01/06/16
EXPIRATION DATE	01/31/21
CAS NUMBER	460-00-4
MOLECULAR FORMULA	C6H4BrF
MOLECULAR WEIGHT	175.00
STORAGE	Store in a cool dry place.
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.
ISO GUIDE 34 CERTIFIED	[ ]

Analytical Test	Value
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
PHYSICAL APPEARANCE	COLORLESS LIQUID
% 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

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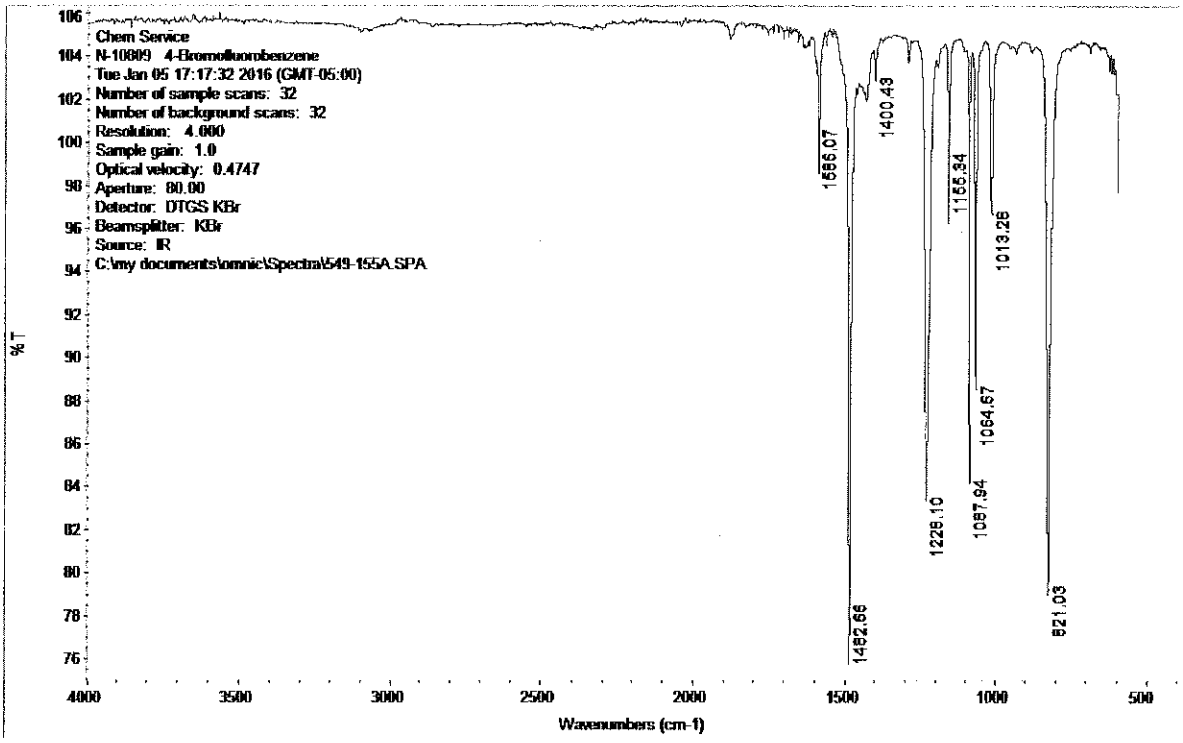
CERTIFICATE OF ANALYSIS

Analysis Method: FTIR- Spectroscopy

Catalog Number:	N-10809-1G
Description:	4-Bromofluorobenzene
Lot Number:	8601300
Expiration Date:	01/31/21



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CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	N-10809-1G
Description:	4-Bromofluorobenzene
Lot Number:	8601300
Expiration Date:	01/31/21

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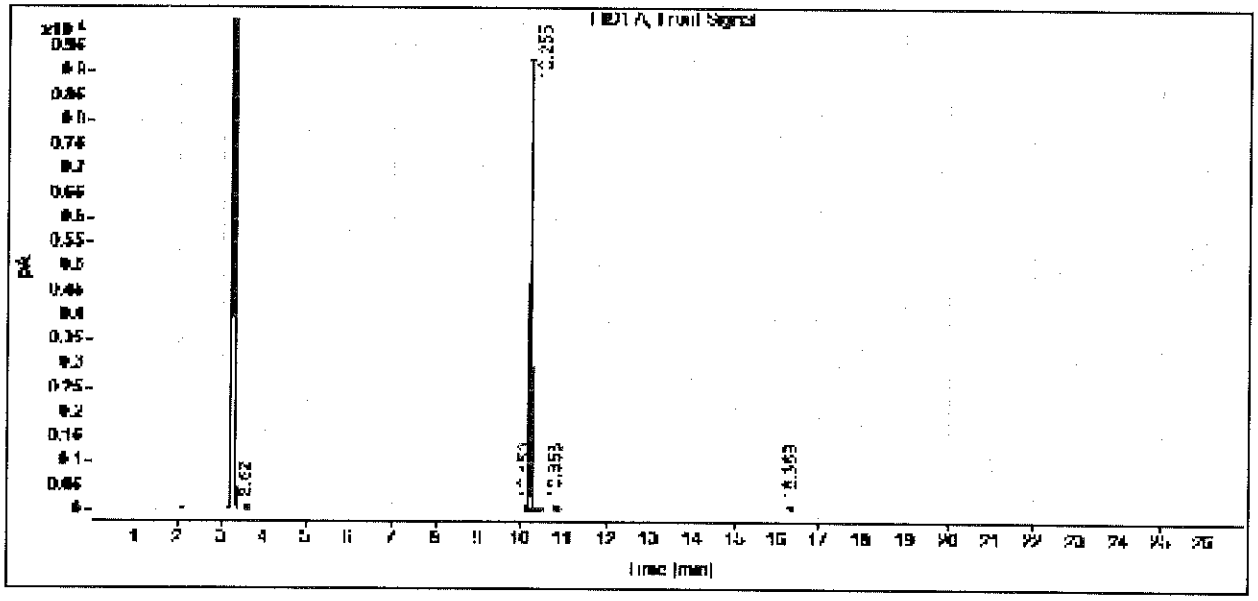
CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\1215\SIG1007347.D

Sample name: N-10809/CH2CL2

Instrument:	GC 1	**Sample type:**	Sample
Injection date:	1/5/2016 4:20:37 PM	**Location:**	Vial 5
Acq. method:	MIX1.M	**Injection volume:**	1.0uL
Column name:	DB-624 (30m x 0.53mm x 3.0um)		



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
3.620	BB	0.0403	3.8748	1.1723	0.0145
10.156	BV	0.0195	0.7424	0.4869	0.0028
10.255	VB S	0.0437	26687.6328	9172.4229	99.7795
10.853	BB	0.0583	54.3345	12.3602	0.2031
16.369	BB	0.0034	0.0123	0.0605	0.0000
		Sum	26746.5968		

Reagent

MSV_502QGas_00119

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. : 55669.SEC **Lot No.:** A0155823

Description : Custom 502.2 "Q" Gas Mix

Custom 502.2 "Q" Gas Mix 2,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : January 31, 2027 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,016.5 µg/mL	+/- 19.3550 µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 26165)		+/- 114.1077 µg/mL	Unstressed
	Purity 99%		+/- 116.7296 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,005.6 µg/mL	+/- 18.7428 µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 113.4037 µg/mL	Unstressed
	Purity 99%		+/- 116.0133 µg/mL	Stressed
3	Vinyl chloride	2,004.4 µg/mL	+/- 15.4000 µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 112.8325 µg/mL	Unstressed
	Purity 99%		+/- 115.4519 µg/mL	Stressed
4	Bromomethane (methyl bromide)	2,022.0 µg/mL	+/- 18.0735 µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot Q119-46)		+/- 114.2018 µg/mL	Unstressed
	Purity 99%		+/- 116.8358 µg/mL	Stressed
5	Chloroethane (ethyl chloride)	2,013.1 µg/mL	+/- 20.5181 µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/- 114.1209 µg/mL	Unstressed
	Purity 99%		+/- 116.7336 µg/mL	Stressed
6	Trichlorofluoromethane (CFC-11)	2,001.1 µg/mL	+/- 17.4531 µg/mL	Gravimetric
	CAS # 75-69-4.SEC (Lot 253600)		+/- 112.9531 µg/mL	Unstressed
	Purity 99%		+/- 115.5613 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)

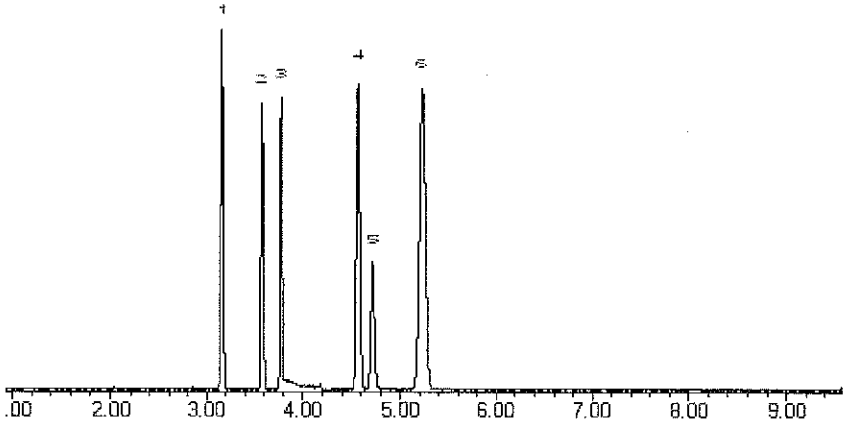
Carrier Gas:
helium-constant flow 2.0 mL/min.

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: 16-Dec-2019 **Balance:** 1127510105

Amanda Miller - Operations Tech-ARM QC

Date Passed: 27-Dec-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_502QGas_00120

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. : 55669.SEC **Lot No.:** A0155823

Description : Custom 502.2 "Q" Gas Mix

Custom 502.2 "Q" Gas Mix 2,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : January 31, 2027 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,016.5 µg/mL	+/- 19.3550 µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 26165)		+/- 114.1077 µg/mL	Unstressed
	Purity 99%		+/- 116.7296 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,005.6 µg/mL	+/- 18.7428 µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 113.4037 µg/mL	Unstressed
	Purity 99%		+/- 116.0133 µg/mL	Stressed
3	Vinyl chloride	2,004.4 µg/mL	+/- 15.4000 µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 112.8325 µg/mL	Unstressed
	Purity 99%		+/- 115.4519 µg/mL	Stressed
4	Bromomethane (methyl bromide)	2,022.0 µg/mL	+/- 18.0735 µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot Q119-46)		+/- 114.2018 µg/mL	Unstressed
	Purity 99%		+/- 116.8358 µg/mL	Stressed
5	Chloroethane (ethyl chloride)	2,013.1 µg/mL	+/- 20.5181 µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/- 114.1209 µg/mL	Unstressed
	Purity 99%		+/- 116.7336 µg/mL	Stressed
6	Trichlorofluoromethane (CFC-11)	2,001.1 µg/mL	+/- 17.4531 µg/mL	Gravimetric
	CAS # 75-69-4.SEC (Lot 253600)		+/- 112.9531 µg/mL	Unstressed
	Purity 99%		+/- 115.5613 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)

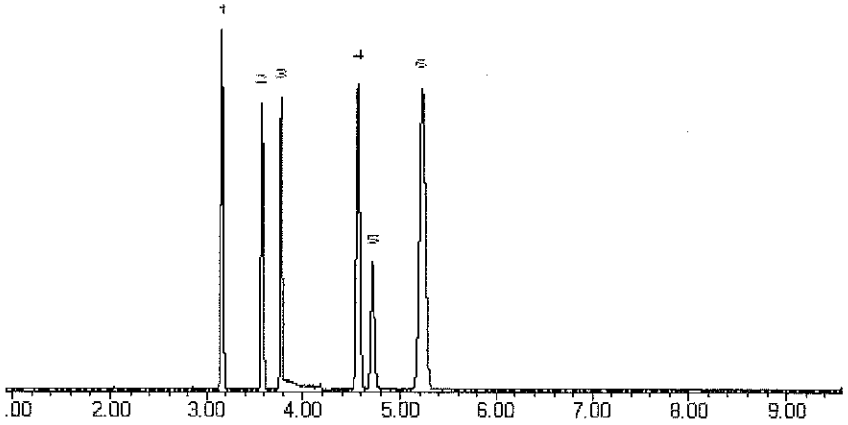
Carrier Gas:
helium-constant flow 2.0 mL/min.

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: 16-Dec-2019 **Balance:** 1127510105

Amanda Miller - Operations Tech-ARM QC

Date Passed: 27-Dec-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_502QGas_00150

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
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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. : 55669.SEC **Lot No.:** A0155823

Description : Custom 502.2 "Q" Gas Mix

Custom 502.2 "Q" Gas Mix 2,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : January 31, 2027 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,016.5 µg/mL	+/- 19.3550 µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 26165)		+/- 114.1077 µg/mL	Unstressed
	Purity 99%		+/- 116.7296 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,005.6 µg/mL	+/- 18.7428 µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 113.4037 µg/mL	Unstressed
	Purity 99%		+/- 116.0133 µg/mL	Stressed
3	Vinyl chloride	2,004.4 µg/mL	+/- 15.4000 µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 112.8325 µg/mL	Unstressed
	Purity 99%		+/- 115.4519 µg/mL	Stressed
4	Bromomethane (methyl bromide)	2,022.0 µg/mL	+/- 18.0735 µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot Q119-46)		+/- 114.2018 µg/mL	Unstressed
	Purity 99%		+/- 116.8358 µg/mL	Stressed
5	Chloroethane (ethyl chloride)	2,013.1 µg/mL	+/- 20.5181 µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot 00004202)		+/- 114.1209 µg/mL	Unstressed
	Purity 99%		+/- 116.7336 µg/mL	Stressed
6	Trichlorofluoromethane (CFC-11)	2,001.1 µg/mL	+/- 17.4531 µg/mL	Gravimetric
	CAS # 75-69-4.SEC (Lot 253600)		+/- 112.9531 µg/mL	Unstressed
	Purity 99%		+/- 115.5613 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)

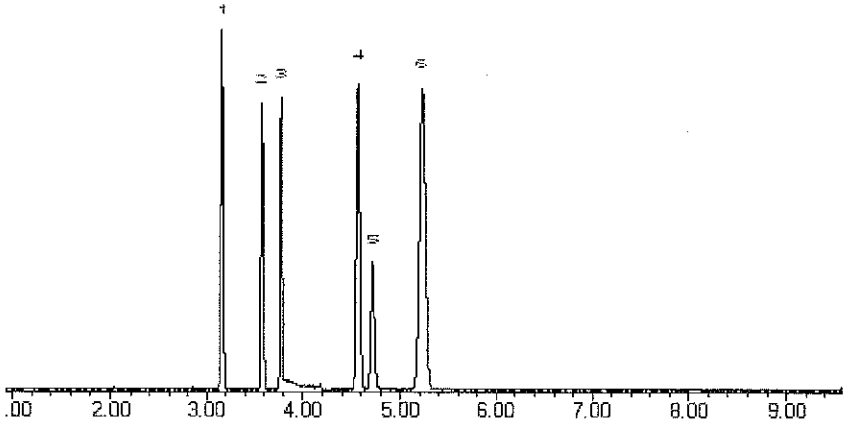
Carrier Gas:
helium-constant flow 2.0 mL/min.

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: 16-Dec-2019 **Balance:** 1127510105

Amanda Miller - Operations Tech-ARM QC

Date Passed: 27-Dec-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_00160

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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)

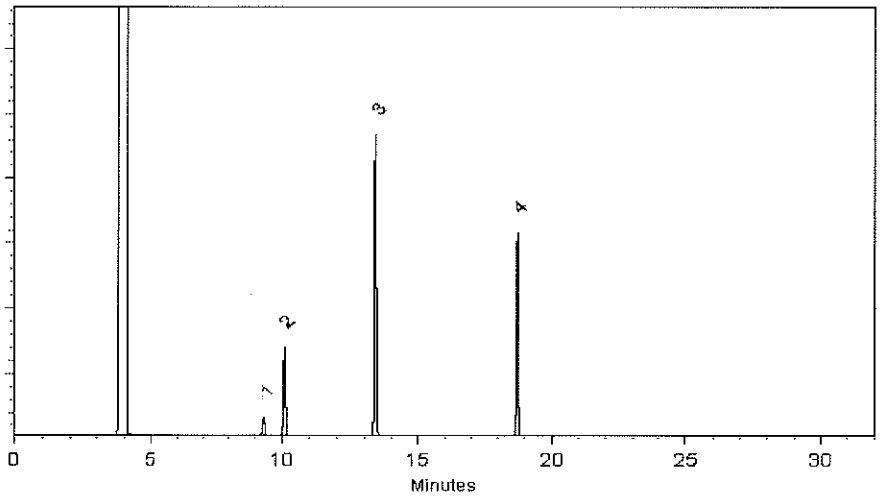
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_00263

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Certificate #3222.02

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)

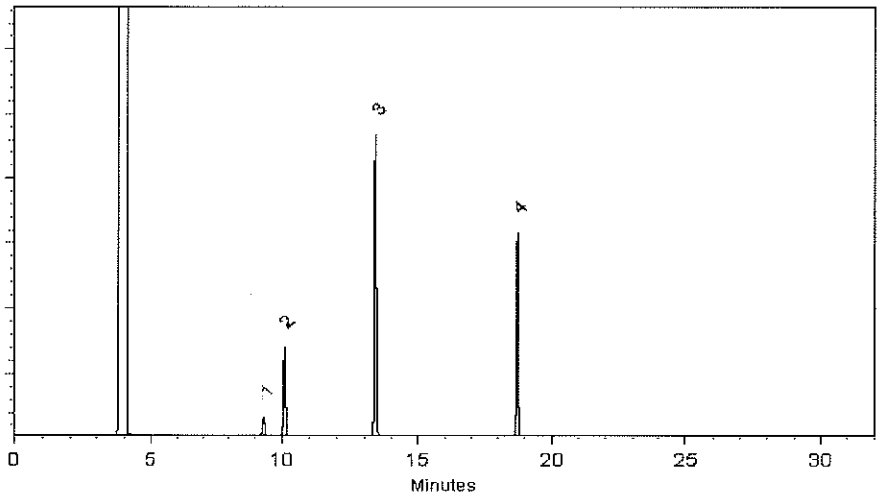
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_00284

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)

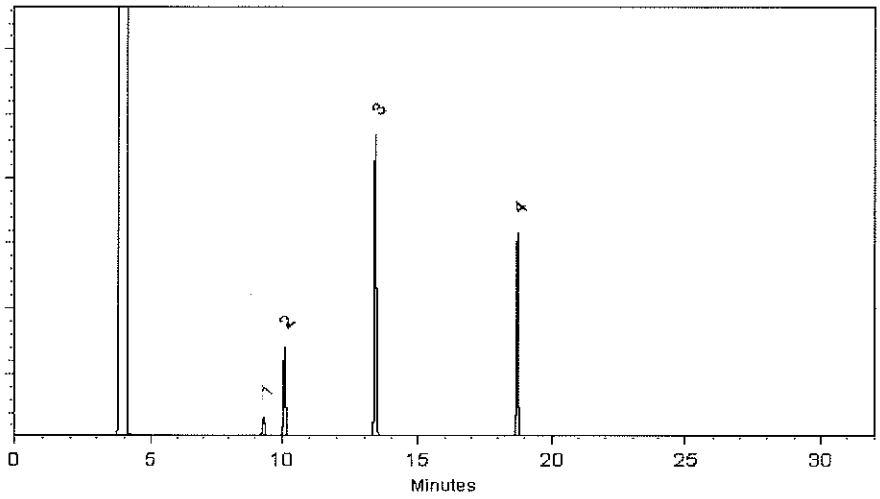
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_00294

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
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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. : 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)

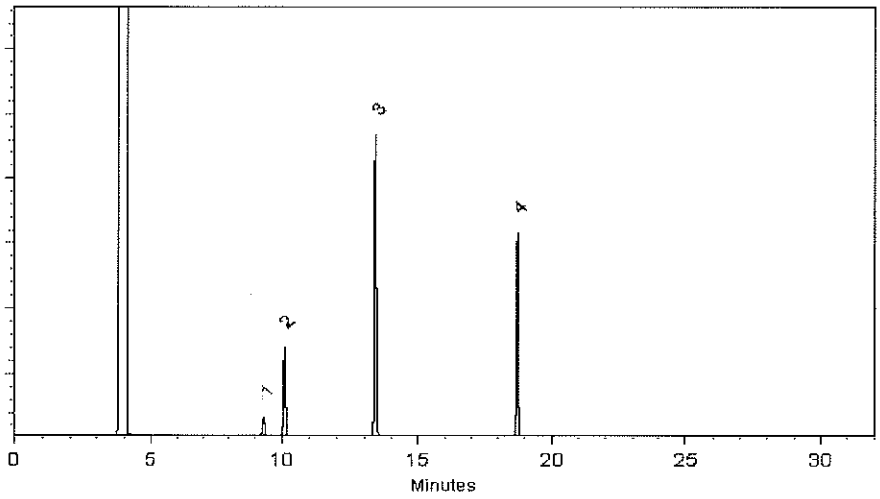
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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_ACROLEIN_00008

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

CERTIFICATE OF ANALYSIS

Acrolein

CATALOG NUMBER	RPN-11030-1G
LOT NUMBER	10410200
DATE CERTIFIED	12/06/19
EXPIRATION DATE	12/31/20
CAS NUMBER	107-02-8
MOLECULAR FORMULA	C3H4O
MOLECULAR WEIGHT	56.06
STORAGE	Refrigerator storage (2 - 8 °C)
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.
NOTES	Contains water and hydroquinone as an inhibitor.

Analytical Test	Value
% PURITY (GC/TCD)	94.3
% WATER (KARL FISCHER)	1.9

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

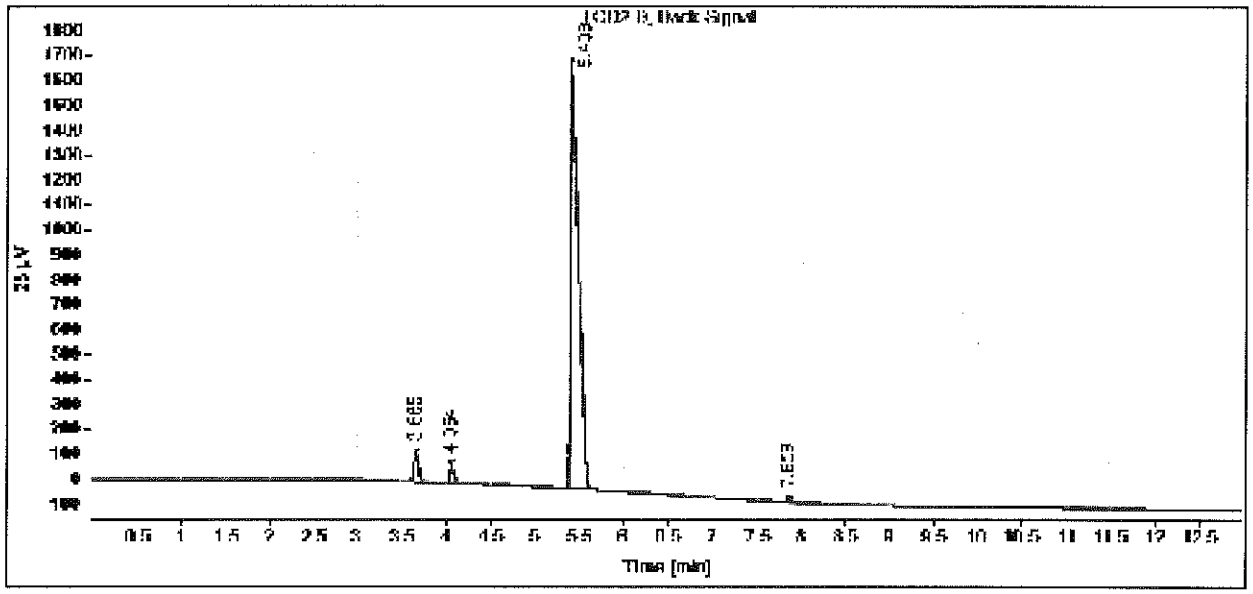
Mary Beth O'Donnell
CSM/TC

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

CERTIFICATE OF ANALYSIS

Gas Chromatography / Thermal Conductivity Detector (GC/TCD)

Data file:	C:\CHEM32\1\DATA\2019 DATA\1219\SIG2022867.D		
Sample name:	Acrolein		
Instrument:	GC 1	**Sample type:**	Sample
Injection date:	12/8/2019 10:34:12 AM	**Location:**	Vial 11
Acq. method:	GASBOMB_TCD.M	**Injection volume:**	1.0uL
Column name:	DB-624 (30m x 0.53mm x 3.0um)		



Signal: TCD2 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
3.665	BB	0.0554	405.7875	114.3327	3.5675
4.064	BB	0.0475	217.2787	71.5037	1.9102
5.408	BV	0.0795	10720.3574	1725.6987	94.2472
7.859	BB	0.1249	31.2959	3.7665	0.2751
		Sum	11374.7176		

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

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number:	RPN-11030-1G
Description:	Acrolein
Lot Number:	10410200
Expiration Date:	12/31/20

Reagent

MSV_Cus826_IS_00099

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. : 558267 **Lot No.:** A0138205

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, 2021 **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		12,613.8	µg/mL	+/- 73.3376	µg/mL	Gravimetric
	CAS # 53001-22-2	(Lot PR-29485)			+/- 270.0624	µg/mL	Unstressed
	Purity 98%				+/- 277.9136	µg/mL	Stressed
2	Fluorobenzene		2,517.8	µg/mL	+/- 14.6387	µg/mL	Gravimetric
	CAS # 462-06-6	(Lot BCBK8171V)			+/- 53.9064	µg/mL	Unstressed
	Purity 99%				+/- 55.4736	µg/mL	Stressed
3	Chlorobenzene-d5		2,518.8	µg/mL	+/- 14.6445	µg/mL	Gravimetric
	CAS # 3114-55-4	(Lot PR-22736)			+/- 53.9278	µg/mL	Unstressed
	Purity 99%				+/- 55.4956	µg/mL	Stressed
4	1,4-Dichlorobenzene-d4		2,511.0	µg/mL	+/- 14.5992	µg/mL	Gravimetric
	CAS # 3855-82-1	(Lot PR-18488)			+/- 53.7608	µg/mL	Unstressed
	Purity 99%				+/- 55.3237	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)

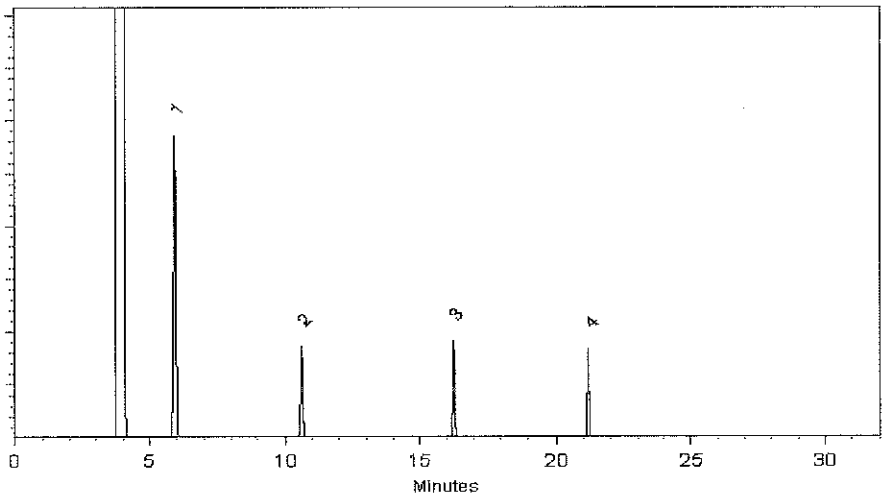
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Tom Suckar - Mix Technician

Date Mixed: 21-May-2018 **Balance:** 1128342314

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 23-May-2018

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)	< 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:

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

Reagent

MSV_Cus826_IS_00151

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

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Certificate #3222.02

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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. : 558267 **Lot No.:** A0138205

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, 2021 **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		12,613.8	µg/mL	+/- 73.3376	µg/mL	Gravimetric
	CAS # 53001-22-2	(Lot PR-29485)			+/- 270.0624	µg/mL	Unstressed
	Purity 98%				+/- 277.9136	µg/mL	Stressed
2	Fluorobenzene		2,517.8	µg/mL	+/- 14.6387	µg/mL	Gravimetric
	CAS # 462-06-6	(Lot BCBK8171V)			+/- 53.9064	µg/mL	Unstressed
	Purity 99%				+/- 55.4736	µg/mL	Stressed
3	Chlorobenzene-d5		2,518.8	µg/mL	+/- 14.6445	µg/mL	Gravimetric
	CAS # 3114-55-4	(Lot PR-22736)			+/- 53.9278	µg/mL	Unstressed
	Purity 99%				+/- 55.4956	µg/mL	Stressed
4	1,4-Dichlorobenzene-d4		2,511.0	µg/mL	+/- 14.5992	µg/mL	Gravimetric
	CAS # 3855-82-1	(Lot PR-18488)			+/- 53.7608	µg/mL	Unstressed
	Purity 99%				+/- 55.3237	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)

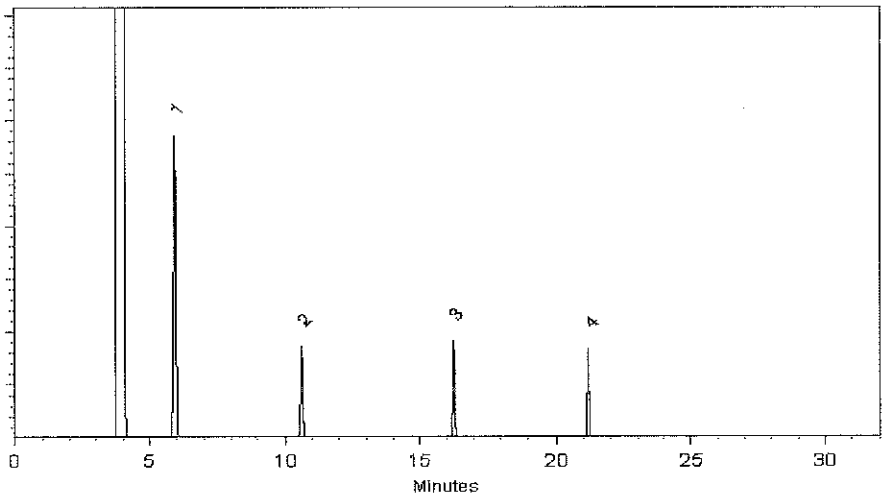
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Tom Suckar - Mix Technician

Date Mixed: 21-May-2018 **Balance:** 1128342314

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 23-May-2018

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_00173

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. : 558267 **Lot No.:** A0138205

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, 2021 **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		12,613.8	µg/mL	+/- 73.3376	µg/mL	Gravimetric
	CAS # 53001-22-2	(Lot PR-29485)			+/- 270.0624	µg/mL	Unstressed
	Purity 98%				+/- 277.9136	µg/mL	Stressed
2	Fluorobenzene		2,517.8	µg/mL	+/- 14.6387	µg/mL	Gravimetric
	CAS # 462-06-6	(Lot BCBK8171V)			+/- 53.9064	µg/mL	Unstressed
	Purity 99%				+/- 55.4736	µg/mL	Stressed
3	Chlorobenzene-d5		2,518.8	µg/mL	+/- 14.6445	µg/mL	Gravimetric
	CAS # 3114-55-4	(Lot PR-22736)			+/- 53.9278	µg/mL	Unstressed
	Purity 99%				+/- 55.4956	µg/mL	Stressed
4	1,4-Dichlorobenzene-d4		2,511.0	µg/mL	+/- 14.5992	µg/mL	Gravimetric
	CAS # 3855-82-1	(Lot PR-18488)			+/- 53.7608	µg/mL	Unstressed
	Purity 99%				+/- 55.3237	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)

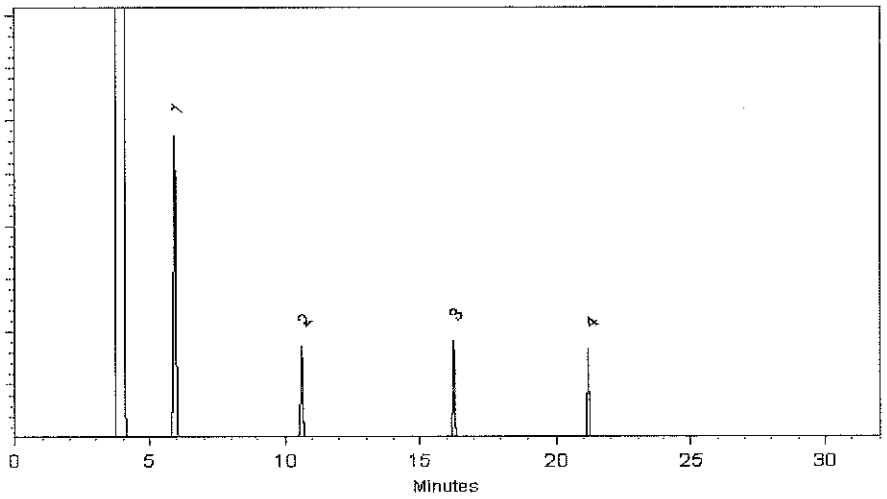
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Tom Suckar - Mix Technician

Date Mixed: 21-May-2018 **Balance:** 1128342314

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 23-May-2018

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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- 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_00180

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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.:** A0138205

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, 2021 **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		12,613.8	µg/mL	+/- 73.3376	µg/mL	Gravimetric
	CAS # 53001-22-2	(Lot PR-29485)			+/- 270.0624	µg/mL	Unstressed
	Purity 98%				+/- 277.9136	µg/mL	Stressed
2	Fluorobenzene		2,517.8	µg/mL	+/- 14.6387	µg/mL	Gravimetric
	CAS # 462-06-6	(Lot BCBK8171V)			+/- 53.9064	µg/mL	Unstressed
	Purity 99%				+/- 55.4736	µg/mL	Stressed
3	Chlorobenzene-d5		2,518.8	µg/mL	+/- 14.6445	µg/mL	Gravimetric
	CAS # 3114-55-4	(Lot PR-22736)			+/- 53.9278	µg/mL	Unstressed
	Purity 99%				+/- 55.4956	µg/mL	Stressed
4	1,4-Dichlorobenzene-d4		2,511.0	µg/mL	+/- 14.5992	µg/mL	Gravimetric
	CAS # 3855-82-1	(Lot PR-18488)			+/- 53.7608	µg/mL	Unstressed
	Purity 99%				+/- 55.3237	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)

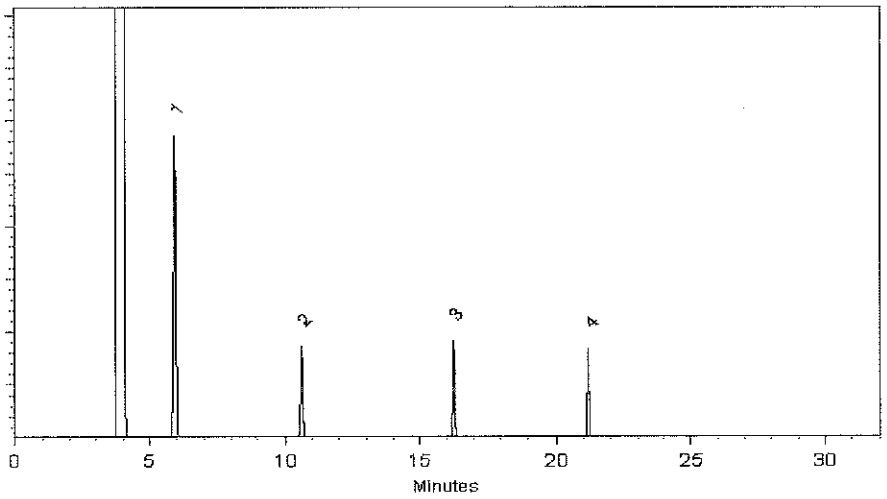
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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



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Tom Suckar - Mix Technician

Date Mixed: 21-May-2018 **Balance:** 1128342314

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 23-May-2018

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

General Certified Reference Material Notes

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Manufacturing Notes:

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Handling Notes:

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

Reagent

MSV_DCFM_00030

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: M-502-61-10X
Description: Dichlorofluoromethane
Lot: 220101035
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Oct 6, 2020
Expiration: Oct 6, 2030
Sample Size: 1 mL
Components: 1
Storage Condition: Refrig (0-5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1339

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Dichlorofluoromethane	75-43-4	98.0	2006	1966

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

1. **Quality Standards:**

   ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

   ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories ANAB Certificate Number AT-1339

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations Certificate Number 3774

2. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.

3. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.

4. **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5. **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6. **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

Reagent

MSV_EE_Neat_00003

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 ether

CATALOG NUMBER	N-11897-1G
LOT NUMBER	7967000
DATE CERTIFIED	11/16/18
EXPIRATION DATE	11/30/21
CAS NUMBER	60-29-7
MOLECULAR FORMULA	C4H10O
MOLECULAR WEIGHT	74.12
STORAGE	Store under refrigeration.
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.
ISO GUIDE 34 CERTIFIED	[ ]

Analytical Test	Value
% PURITY (GC/TCD)	99.5

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

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

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

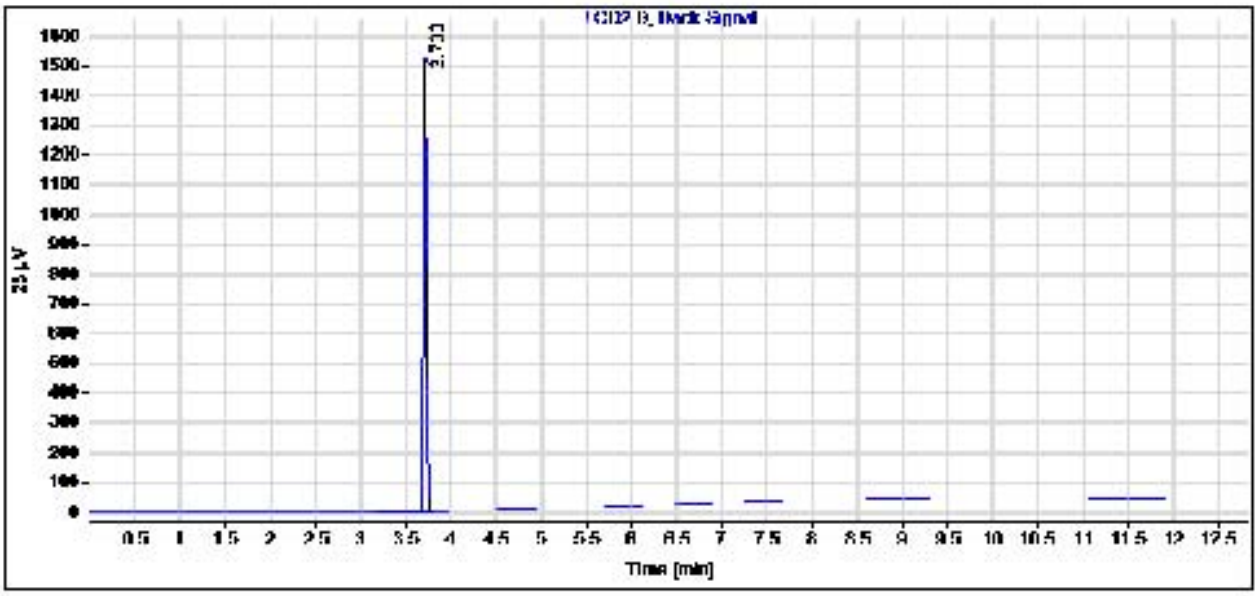
CERTIFICATE OF ANALYSIS

Gas Chromatography / Thermal Conductivity Detector (GC/TCD)

Data file: C:\CHEM32\1\DATA\2018 DATA\1118\SIG2080873.D

Sample name: Ethyl ether

Instrument:	GC 1	**Sample type:**	Sample
Injection date:	11/16/2018 10:06:22 AM	**Location:**	Vial 1
Acq. method:	TCD_M	**Injection volume:**	1.0uL
Column name:	DB-624 (30m x 0.53mm x 3.0um)		



Signal: TCD2 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
3.706	BV	0.0361	3473.9382	1497.5255	100.0000
		Sum	3473.9382		

Reagent

MSV_Q#1B_00070

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. : 569936-1.sec **Lot No.:** A0148625

Description : Custom Revised Q #1B Standard

Custom Revised Q #1B Standard 1,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : April 30, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-Dichloroethene	1,005.5 µg/mL	+/- 7.1750 µg/mL	Gravimetric
	CAS # 75-35-4.SEC (Lot 5111300)		+/- 56.5279 µg/mL	Unstressed
	Purity 99%		+/- 57.8435 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	1,004.5 µg/mL	+/- 7.1682 µg/mL	Gravimetric
	CAS # 75-09-2.SEC (Lot FGM02)		+/- 56.4745 µg/mL	Unstressed
	Purity 99%		+/- 57.7888 µg/mL	Stressed
3	trans-1,2-Dichloroethene	1,002.8 µg/mL	+/- 7.1558 µg/mL	Gravimetric
	CAS # 156-60-5.SEC (Lot TS5UB)		+/- 56.3767 µg/mL	Unstressed
	Purity 97%		+/- 57.6888 µg/mL	Stressed
4	1,1-Dichloroethane	1,006.8 µg/mL	+/- 7.1846 µg/mL	Gravimetric
	CAS # 75-34-3.SEC (Lot 5379000)		+/- 56.6038 µg/mL	Unstressed
	Purity 99%		+/- 57.9211 µg/mL	Stressed
5	2,2-Dichloropropane	1,003.2 µg/mL	+/- 7.7659 µg/mL	Gravimetric
	CAS # 594-20-7.SEC (Lot I7E8E)		+/- 56.4820 µg/mL	Unstressed
	Purity 98%		+/- 57.7928 µg/mL	Stressed
6	cis-1,2-Dichloroethene	1,001.2 µg/mL	+/- 7.7507 µg/mL	Gravimetric
	CAS # 156-59-2.SEC (Lot HGC01-BLKT)		+/- 56.3716 µg/mL	Unstressed
	Purity 98%		+/- 57.6799 µg/mL	Stressed
7	Chloroform	1,004.5 µg/mL	+/- 7.1684 µg/mL	Gravimetric
	CAS # 67-66-3.SEC (Lot 1297547)		+/- 56.4759 µg/mL	Unstressed
	Purity 99%		+/- 57.7903 µg/mL	Stressed

8	1,1,1-trichloroethane		1,000.9	µg/mL	+/-	7.1427	µg/mL	Gravimetric
	CAS # 71-55-6 *	(Lot B15W12061)			+/-	56.2735	µg/mL	Unstressed
	Purity 99%				+/-	57.5832	µg/mL	Stressed
9	1,1-Dichloropropene		1,005.1	µg/mL	+/-	7.7804	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 4672600)			+/-	56.5876	µg/mL	Unstressed
	Purity 96%				+/-	57.9008	µg/mL	Stressed
10	Carbon tetrachloride		1,006.6	µg/mL	+/-	7.1828	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	56.5897	µg/mL	Unstressed
	Purity 99%				+/-	57.9068	µg/mL	Stressed
11	1,2-Dichloroethane		1,003.3	µg/mL	+/-	7.1598	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot FO6PK)			+/-	56.4084	µg/mL	Unstressed
	Purity 99%				+/-	57.7212	µg/mL	Stressed
12	Benzene		1,003.5	µg/mL	+/-	7.7683	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	56.4996	µg/mL	Unstressed
	Purity 99%				+/-	57.8109	µg/mL	Stressed
13	Trichloroethene		1,005.6	µg/mL	+/-	7.1760	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	56.5363	µg/mL	Unstressed
	Purity 99%				+/-	57.8521	µg/mL	Stressed
14	1,2-Dichloropropane		1,004.3	µg/mL	+/-	7.1666	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot OGG01)			+/-	56.4618	µg/mL	Unstressed
	Purity 99%				+/-	57.7759	µg/mL	Stressed
15	Bromodichloromethane		1,006.2	µg/mL	+/-	7.1801	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 10171168)			+/-	56.5686	µg/mL	Unstressed
	Purity 99%				+/-	57.8852	µg/mL	Stressed
16	Dibromomethane		1,006.1	µg/mL	+/-	7.7881	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot FGI01-OICH)			+/-	56.6438	µg/mL	Unstressed
	Purity 99%				+/-	57.9584	µg/mL	Stressed
17	cis-1,3-Dichloropropene		1,001.9	µg/mL	+/-	7.1498	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 4870A)			+/-	56.3297	µg/mL	Unstressed
	Purity 99%				+/-	57.6407	µg/mL	Stressed
18	Toluene		1,004.8	µg/mL	+/-	7.7782	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	56.5717	µg/mL	Unstressed
	Purity 99%				+/-	57.8846	µg/mL	Stressed
19	trans-1,3-Dichloropropene		1,002.6	µg/mL	+/-	7.1548	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	56.3691	µg/mL	Unstressed
	Purity 99%				+/-	57.6810	µg/mL	Stressed
20	1,1,2-Trichloroethane		1,007.8	µg/mL	+/-	7.1920	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 3440900)			+/-	56.6618	µg/mL	Unstressed
	Purity 98%				+/-	57.9805	µg/mL	Stressed
21	1,3-Dichloropropane		1,003.8	µg/mL	+/-	7.7708	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	56.5177	µg/mL	Unstressed
	Purity 99%				+/-	57.8293	µg/mL	Stressed
22	Tetrachloroethene		1,004.1	µg/mL	+/-	7.1652	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	56.4506	µg/mL	Unstressed
	Purity 99%				+/-	57.7644	µg/mL	Stressed
23	Dibromochloromethane		1,009.5	µg/mL	+/-	7.2035	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10181507)			+/-	56.7530	µg/mL	Unstressed
	Purity 97%				+/-	58.0739	µg/mL	Stressed

24	1,2-Dibromoethane (EDB)		1,007.8	µg/mL	+/-	7.8017	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 3505900)			+/-	56.7429	µg/mL	Unstressed
	Purity 99%				+/-	58.0598	µg/mL	Stressed
25	1-Chlorohexane		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 544-10-5.SEC	(Lot 8171700)			+/-	56.1308	µg/mL	Unstressed
	Purity 99%				+/-	57.4439	µg/mL	Stressed
26	Chlorobenzene		1,004.8	µg/mL	+/-	7.1703	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	56.4913	µg/mL	Unstressed
	Purity 99%				+/-	57.8061	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		1,003.4	µg/mL	+/-	7.7677	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)			+/-	56.4951	µg/mL	Unstressed
	Purity 99%				+/-	57.8063	µg/mL	Stressed
28	Ethylbenzene		1,003.4	µg/mL	+/-	7.7677	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)			+/-	56.4951	µg/mL	Unstressed
	Purity 99%				+/-	57.8063	µg/mL	Stressed
29	m-Xylene		1,005.9	µg/mL	+/-	7.7869	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot OUKMG-GB)			+/-	56.6348	µg/mL	Unstressed
	Purity 99%				+/-	57.9491	µg/mL	Stressed
30	p-Xylene		1,008.3	µg/mL	+/-	7.8054	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot GM01)			+/-	56.7699	µg/mL	Unstressed
	Purity 99%				+/-	58.0874	µg/mL	Stressed
31	o-Xylene		1,005.8	µg/mL	+/-	7.7862	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)			+/-	56.6303	µg/mL	Unstressed
	Purity 99%				+/-	57.9445	µg/mL	Stressed
32	Styrene		1,001.1	µg/mL	+/-	7.7497	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot QGQ7F)			+/-	56.3645	µg/mL	Unstressed
	Purity 99%				+/-	57.6726	µg/mL	Stressed
33	Isopropylbenzene (cumene)		1,004.3	µg/mL	+/-	7.7745	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot WVREC)			+/-	56.5447	µg/mL	Unstressed
	Purity 99%				+/-	57.8570	µg/mL	Stressed
34	Bromoform		1,005.7	µg/mL	+/-	7.1764	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 5197400)			+/-	56.5392	µg/mL	Unstressed
	Purity 98%				+/-	57.8551	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		1,006.8	µg/mL	+/-	7.1848	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot CFA4D-AQ)			+/-	56.6052	µg/mL	Unstressed
	Purity 99%				+/-	57.9226	µg/mL	Stressed
36	1,2,3-Trichloropropane		1,002.4	µg/mL	+/-	7.7598	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot OGI01)			+/-	56.4378	µg/mL	Unstressed
	Purity 98%				+/-	57.7477	µg/mL	Stressed
37	n-Propylbenzene		1,007.8	µg/mL	+/-	7.8011	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)			+/-	56.7384	µg/mL	Unstressed
	Purity 99%				+/-	58.0551	µg/mL	Stressed
38	Bromobenzene		1,004.8	µg/mL	+/-	7.7782	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 2FUHG-EM)			+/-	56.5717	µg/mL	Unstressed
	Purity 99%				+/-	57.8846	µg/mL	Stressed
39	1,3,5-Trichlorobenzene		1,002.0	µg/mL	+/-	5.8803	µg/mL	Gravimetric
	CAS # 108-70-3.SEC	(Lot I28U021)			+/-	56.1868	µg/mL	Unstressed
	Purity 99%				+/-	57.5013	µg/mL	Stressed

40	2-Chlorotoluene		1,008.1	µg/mL	+/-	7.8036	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot SW8QG-AO)			+/-	56.7564	µg/mL	Unstressed
	Purity 99%				+/-	58.0736	µg/mL	Stressed
41	4-Chlorotoluene		1,002.1	µg/mL	+/-	7.7571	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot P4XHJ-AO)			+/-	56.4186	µg/mL	Unstressed
	Purity 99%				+/-	57.7279	µg/mL	Stressed
42	tert-Butylbenzene		1,004.2	µg/mL	+/-	7.7732	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	56.5357	µg/mL	Unstressed
	Purity 99%				+/-	57.8478	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		1,009.5	µg/mL	+/-	7.8147	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot SC7LO-QA)			+/-	56.8374	µg/mL	Unstressed
	Purity 99%				+/-	58.1565	µg/mL	Stressed
44	sec-Butylbenzene		1,006.9	µg/mL	+/-	7.7943	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot O4HRF)			+/-	56.6888	µg/mL	Unstressed
	Purity 99%				+/-	58.0044	µg/mL	Stressed
45	4-Isopropyltoluene (p-cymene)		1,000.0	µg/mL	+/-	7.7410	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 1195000)			+/-	56.3015	µg/mL	Unstressed
	Purity 96%				+/-	57.6081	µg/mL	Stressed
46	1,3-Dichlorobenzene		1,003.3	µg/mL	+/-	7.1593	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	56.4042	µg/mL	Unstressed
	Purity 99%				+/-	57.7169	µg/mL	Stressed
47	1,4-Dichlorobenzene		1,008.5	µg/mL	+/-	7.1967	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot 4Y5DC)			+/-	56.6994	µg/mL	Unstressed
	Purity 99%				+/-	58.0189	µg/mL	Stressed
48	n-Butylbenzene		1,005.4	µg/mL	+/-	7.7825	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	56.6032	µg/mL	Unstressed
	Purity 99%				+/-	57.9169	µg/mL	Stressed
49	1,2-Dichlorobenzene		1,006.8	µg/mL	+/-	7.1842	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot 4NRGF-OT)			+/-	56.6010	µg/mL	Unstressed
	Purity 99%				+/-	57.9183	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		1,002.7	µg/mL	+/-	7.7616	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot LC00408V)			+/-	56.4511	µg/mL	Unstressed
	Purity 98%				+/-	57.7612	µg/mL	Stressed
51	1,3,5-Trimethylbenzene		1,002.2	µg/mL	+/-	7.7584	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot FGH02-CMLN)			+/-	56.4276	µg/mL	Unstressed
	Purity 99%				+/-	57.7371	µg/mL	Stressed
52	1,2,4-Trichlorobenzene		1,007.2	µg/mL	+/-	7.7968	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot 3LYYC)			+/-	56.7068	µg/mL	Unstressed
	Purity 99%				+/-	58.0229	µg/mL	Stressed
53	Hexachlorobutadiene		1,005.8	µg/mL	+/-	7.7857	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 5526800)			+/-	56.6265	µg/mL	Unstressed
	Purity 97%				+/-	57.9407	µg/mL	Stressed
54	Naphthalene		1,001.8	µg/mL	+/-	7.7553	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot SKZ5N)			+/-	56.4050	µg/mL	Unstressed
	Purity 99%				+/-	57.7141	µg/mL	Stressed
55	1,2,3-Trichlorobenzene		1,005.9	µg/mL	+/-	7.7865	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/-	56.6321	µg/mL	Unstressed
	Purity 98%				+/-	57.9464	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)

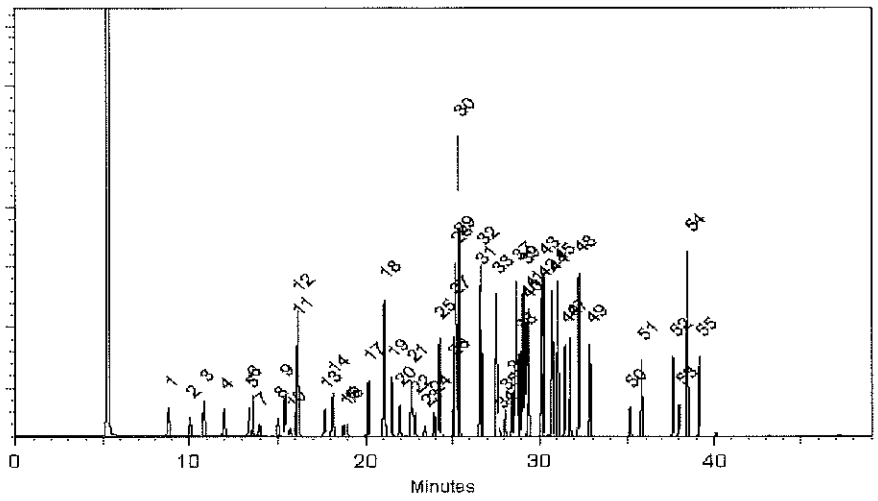
Carrier Gas:
hydrogen-constant pressure 8.0 psi.

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 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.

Michael J Maye

Date Mixed: 26-Apr-2019 **Balance:** 1127510105

Jennifer Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 30-Apr-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_Q#1B_00071

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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. : 569936-1.sec **Lot No.:** A0148625

Description : Custom Revised Q #1B Standard

Custom Revised Q #1B Standard 1,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : April 30, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-Dichloroethene	1,005.5 µg/mL	+/- 7.1750 µg/mL	Gravimetric
	CAS # 75-35-4.SEC (Lot 5111300)		+/- 56.5279 µg/mL	Unstressed
	Purity 99%		+/- 57.8435 µg/mL	Stressed
2	Methylene chloride (dichloromethane)	1,004.5 µg/mL	+/- 7.1682 µg/mL	Gravimetric
	CAS # 75-09-2.SEC (Lot FGM02)		+/- 56.4745 µg/mL	Unstressed
	Purity 99%		+/- 57.7888 µg/mL	Stressed
3	trans-1,2-Dichloroethene	1,002.8 µg/mL	+/- 7.1558 µg/mL	Gravimetric
	CAS # 156-60-5.SEC (Lot TS5UB)		+/- 56.3767 µg/mL	Unstressed
	Purity 97%		+/- 57.6888 µg/mL	Stressed
4	1,1-Dichloroethane	1,006.8 µg/mL	+/- 7.1846 µg/mL	Gravimetric
	CAS # 75-34-3.SEC (Lot 5379000)		+/- 56.6038 µg/mL	Unstressed
	Purity 99%		+/- 57.9211 µg/mL	Stressed
5	2,2-Dichloropropane	1,003.2 µg/mL	+/- 7.7659 µg/mL	Gravimetric
	CAS # 594-20-7.SEC (Lot I7E8E)		+/- 56.4820 µg/mL	Unstressed
	Purity 98%		+/- 57.7928 µg/mL	Stressed
6	cis-1,2-Dichloroethene	1,001.2 µg/mL	+/- 7.7507 µg/mL	Gravimetric
	CAS # 156-59-2.SEC (Lot HGC01-BLKT)		+/- 56.3716 µg/mL	Unstressed
	Purity 98%		+/- 57.6799 µg/mL	Stressed
7	Chloroform	1,004.5 µg/mL	+/- 7.1684 µg/mL	Gravimetric
	CAS # 67-66-3.SEC (Lot 1297547)		+/- 56.4759 µg/mL	Unstressed
	Purity 99%		+/- 57.7903 µg/mL	Stressed

8	1,1,1-trichloroethane		1,000.9	µg/mL	+/-	7.1427	µg/mL	Gravimetric
	CAS # 71-55-6 *	(Lot B15W12061)			+/-	56.2735	µg/mL	Unstressed
	Purity 99%				+/-	57.5832	µg/mL	Stressed
9	1,1-Dichloropropene		1,005.1	µg/mL	+/-	7.7804	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 4672600)			+/-	56.5876	µg/mL	Unstressed
	Purity 96%				+/-	57.9008	µg/mL	Stressed
10	Carbon tetrachloride		1,006.6	µg/mL	+/-	7.1828	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	56.5897	µg/mL	Unstressed
	Purity 99%				+/-	57.9068	µg/mL	Stressed
11	1,2-Dichloroethane		1,003.3	µg/mL	+/-	7.1598	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot FO6PK)			+/-	56.4084	µg/mL	Unstressed
	Purity 99%				+/-	57.7212	µg/mL	Stressed
12	Benzene		1,003.5	µg/mL	+/-	7.7683	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	56.4996	µg/mL	Unstressed
	Purity 99%				+/-	57.8109	µg/mL	Stressed
13	Trichloroethene		1,005.6	µg/mL	+/-	7.1760	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	56.5363	µg/mL	Unstressed
	Purity 99%				+/-	57.8521	µg/mL	Stressed
14	1,2-Dichloropropane		1,004.3	µg/mL	+/-	7.1666	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot OGG01)			+/-	56.4618	µg/mL	Unstressed
	Purity 99%				+/-	57.7759	µg/mL	Stressed
15	Bromodichloromethane		1,006.2	µg/mL	+/-	7.1801	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 10171168)			+/-	56.5686	µg/mL	Unstressed
	Purity 99%				+/-	57.8852	µg/mL	Stressed
16	Dibromomethane		1,006.1	µg/mL	+/-	7.7881	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot FGI01-OICH)			+/-	56.6438	µg/mL	Unstressed
	Purity 99%				+/-	57.9584	µg/mL	Stressed
17	cis-1,3-Dichloropropene		1,001.9	µg/mL	+/-	7.1498	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 4870A)			+/-	56.3297	µg/mL	Unstressed
	Purity 99%				+/-	57.6407	µg/mL	Stressed
18	Toluene		1,004.8	µg/mL	+/-	7.7782	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	56.5717	µg/mL	Unstressed
	Purity 99%				+/-	57.8846	µg/mL	Stressed
19	trans-1,3-Dichloropropene		1,002.6	µg/mL	+/-	7.1548	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	56.3691	µg/mL	Unstressed
	Purity 99%				+/-	57.6810	µg/mL	Stressed
20	1,1,2-Trichloroethane		1,007.8	µg/mL	+/-	7.1920	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 3440900)			+/-	56.6618	µg/mL	Unstressed
	Purity 98%				+/-	57.9805	µg/mL	Stressed
21	1,3-Dichloropropane		1,003.8	µg/mL	+/-	7.7708	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot AGN01-EFPC)			+/-	56.5177	µg/mL	Unstressed
	Purity 99%				+/-	57.8293	µg/mL	Stressed
22	Tetrachloroethene		1,004.1	µg/mL	+/-	7.1652	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	56.4506	µg/mL	Unstressed
	Purity 99%				+/-	57.7644	µg/mL	Stressed
23	Dibromochloromethane		1,009.5	µg/mL	+/-	7.2035	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10181507)			+/-	56.7530	µg/mL	Unstressed
	Purity 97%				+/-	58.0739	µg/mL	Stressed

24	1,2-Dibromoethane (EDB)		1,007.8	µg/mL	+/-	7.8017	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 3505900)			+/-	56.7429	µg/mL	Unstressed
	Purity 99%				+/-	58.0598	µg/mL	Stressed
25	1-Chlorohexane		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 544-10-5.SEC	(Lot 8171700)			+/-	56.1308	µg/mL	Unstressed
	Purity 99%				+/-	57.4439	µg/mL	Stressed
26	Chlorobenzene		1,004.8	µg/mL	+/-	7.1703	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	56.4913	µg/mL	Unstressed
	Purity 99%				+/-	57.8061	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		1,003.4	µg/mL	+/-	7.7677	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot GC01)			+/-	56.4951	µg/mL	Unstressed
	Purity 99%				+/-	57.8063	µg/mL	Stressed
28	Ethylbenzene		1,003.4	µg/mL	+/-	7.7677	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)			+/-	56.4951	µg/mL	Unstressed
	Purity 99%				+/-	57.8063	µg/mL	Stressed
29	m-Xylene		1,005.9	µg/mL	+/-	7.7869	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot OUKMG-GB)			+/-	56.6348	µg/mL	Unstressed
	Purity 99%				+/-	57.9491	µg/mL	Stressed
30	p-Xylene		1,008.3	µg/mL	+/-	7.8054	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot GM01)			+/-	56.7699	µg/mL	Unstressed
	Purity 99%				+/-	58.0874	µg/mL	Stressed
31	o-Xylene		1,005.8	µg/mL	+/-	7.7862	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)			+/-	56.6303	µg/mL	Unstressed
	Purity 99%				+/-	57.9445	µg/mL	Stressed
32	Styrene		1,001.1	µg/mL	+/-	7.7497	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot QGQ7F)			+/-	56.3645	µg/mL	Unstressed
	Purity 99%				+/-	57.6726	µg/mL	Stressed
33	Isopropylbenzene (cumene)		1,004.3	µg/mL	+/-	7.7745	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot WVREC)			+/-	56.5447	µg/mL	Unstressed
	Purity 99%				+/-	57.8570	µg/mL	Stressed
34	Bromoform		1,005.7	µg/mL	+/-	7.1764	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 5197400)			+/-	56.5392	µg/mL	Unstressed
	Purity 98%				+/-	57.8551	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		1,006.8	µg/mL	+/-	7.1848	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot CFA4D-AQ)			+/-	56.6052	µg/mL	Unstressed
	Purity 99%				+/-	57.9226	µg/mL	Stressed
36	1,2,3-Trichloropropane		1,002.4	µg/mL	+/-	7.7598	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot OGI01)			+/-	56.4378	µg/mL	Unstressed
	Purity 98%				+/-	57.7477	µg/mL	Stressed
37	n-Propylbenzene		1,007.8	µg/mL	+/-	7.8011	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)			+/-	56.7384	µg/mL	Unstressed
	Purity 99%				+/-	58.0551	µg/mL	Stressed
38	Bromobenzene		1,004.8	µg/mL	+/-	7.7782	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 2FUHG-EM)			+/-	56.5717	µg/mL	Unstressed
	Purity 99%				+/-	57.8846	µg/mL	Stressed
39	1,3,5-Trichlorobenzene		1,002.0	µg/mL	+/-	5.8803	µg/mL	Gravimetric
	CAS # 108-70-3.SEC	(Lot I28U021)			+/-	56.1868	µg/mL	Unstressed
	Purity 99%				+/-	57.5013	µg/mL	Stressed

40	2-Chlorotoluene		1,008.1	µg/mL	+/-	7.8036	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot SW8QG-AO)			+/-	56.7564	µg/mL	Unstressed
	Purity 99%				+/-	58.0736	µg/mL	Stressed
41	4-Chlorotoluene		1,002.1	µg/mL	+/-	7.7571	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot P4XHJ-AO)			+/-	56.4186	µg/mL	Unstressed
	Purity 99%				+/-	57.7279	µg/mL	Stressed
42	tert-Butylbenzene		1,004.2	µg/mL	+/-	7.7732	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/-	56.5357	µg/mL	Unstressed
	Purity 99%				+/-	57.8478	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		1,009.5	µg/mL	+/-	7.8147	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot SC7LO-QA)			+/-	56.8374	µg/mL	Unstressed
	Purity 99%				+/-	58.1565	µg/mL	Stressed
44	sec-Butylbenzene		1,006.9	µg/mL	+/-	7.7943	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot O4HRF)			+/-	56.6888	µg/mL	Unstressed
	Purity 99%				+/-	58.0044	µg/mL	Stressed
45	4-Isopropyltoluene (p-cymene)		1,000.0	µg/mL	+/-	7.7410	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 1195000)			+/-	56.3015	µg/mL	Unstressed
	Purity 96%				+/-	57.6081	µg/mL	Stressed
46	1,3-Dichlorobenzene		1,003.3	µg/mL	+/-	7.1593	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/-	56.4042	µg/mL	Unstressed
	Purity 99%				+/-	57.7169	µg/mL	Stressed
47	1,4-Dichlorobenzene		1,008.5	µg/mL	+/-	7.1967	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot 4Y5DC)			+/-	56.6994	µg/mL	Unstressed
	Purity 99%				+/-	58.0189	µg/mL	Stressed
48	n-Butylbenzene		1,005.4	µg/mL	+/-	7.7825	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/-	56.6032	µg/mL	Unstressed
	Purity 99%				+/-	57.9169	µg/mL	Stressed
49	1,2-Dichlorobenzene		1,006.8	µg/mL	+/-	7.1842	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot 4NRGF-OT)			+/-	56.6010	µg/mL	Unstressed
	Purity 99%				+/-	57.9183	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		1,002.7	µg/mL	+/-	7.7616	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot LC00408V)			+/-	56.4511	µg/mL	Unstressed
	Purity 98%				+/-	57.7612	µg/mL	Stressed
51	1,3,5-Trimethylbenzene		1,002.2	µg/mL	+/-	7.7584	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot FGH02-CMLN)			+/-	56.4276	µg/mL	Unstressed
	Purity 99%				+/-	57.7371	µg/mL	Stressed
52	1,2,4-Trichlorobenzene		1,007.2	µg/mL	+/-	7.7968	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot 3LYYC)			+/-	56.7068	µg/mL	Unstressed
	Purity 99%				+/-	58.0229	µg/mL	Stressed
53	Hexachlorobutadiene		1,005.8	µg/mL	+/-	7.7857	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 5526800)			+/-	56.6265	µg/mL	Unstressed
	Purity 97%				+/-	57.9407	µg/mL	Stressed
54	Naphthalene		1,001.8	µg/mL	+/-	7.7553	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot SKZ5N)			+/-	56.4050	µg/mL	Unstressed
	Purity 99%				+/-	57.7141	µg/mL	Stressed
55	1,2,3-Trichlorobenzene		1,005.9	µg/mL	+/-	7.7865	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/-	56.6321	µg/mL	Unstressed
	Purity 98%				+/-	57.9464	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)

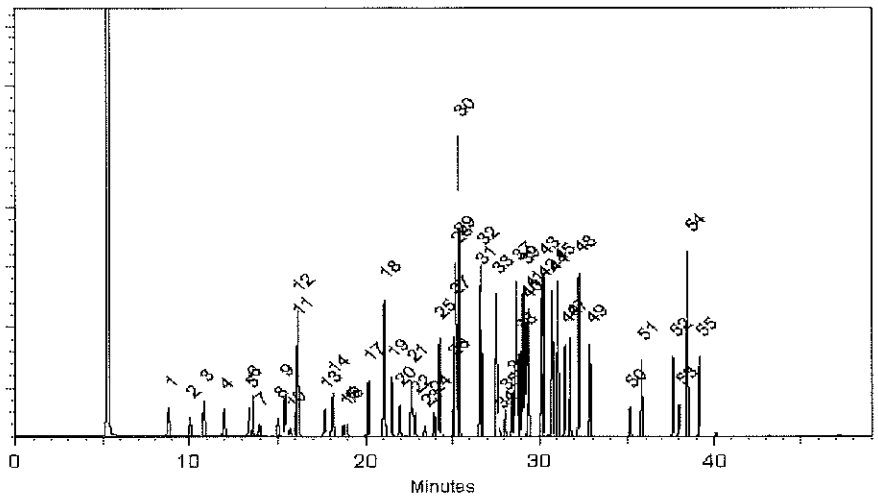
Carrier Gas:
hydrogen-constant pressure 8.0 psi.

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 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.

Michael J Maye

Date Mixed: 26-Apr-2019 **Balance:** 1127510105

Jennifer Pollino

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 30-Apr-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_Q#1B_00088

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. : 569936-1.SEC **Lot No.:** A0165522

Description : Custom Revised Q #1B Standard

Custom Revised Q #1B Standard 1,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : October 31, 2023 **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	1,003.8 µg/mL	+/- 27.1548	µg/mL	Gravimetric
	CAS # 75-35-4.SEC (Lot 9201700)		+/- 62.2148	µg/mL	Unstressed
	Purity 99%		+/- 63.4085	µg/mL	Stressed
2	Methylene chloride (dichloromethane)	1,001.8 µg/mL	+/- 27.1007	µg/mL	Gravimetric
	CAS # 75-09-2.SEC (Lot FGM02)		+/- 62.0908	µg/mL	Unstressed
	Purity 99%		+/- 63.2822	µg/mL	Stressed
3	trans-1,2-Dichloroethene	1,000.3 µg/mL	+/- 27.0615	µg/mL	Gravimetric
	CAS # 156-60-5.SEC (Lot TS5UB)		+/- 62.0010	µg/mL	Unstressed
	Purity 99%		+/- 63.1906	µg/mL	Stressed
4	1,1-Dichloroethane	1,002.0 µg/mL	+/- 27.1075	µg/mL	Gravimetric
	CAS # 75-34-3.SEC (Lot 7482000)		+/- 62.1063	µg/mL	Unstressed
	Purity 99%		+/- 63.2980	µg/mL	Stressed
5	2,2-Dichloropropane	1,000.0 µg/mL	+/- 7.1361	µg/mL	Gravimetric
	CAS # 594-20-7.SEC (Lot I7E8E)		+/- 56.2215	µg/mL	Unstressed
	Purity 99%		+/- 57.5299	µg/mL	Stressed
6	cis-1,2-Dichloroethene	1,000.2 µg/mL	+/- 7.1372	µg/mL	Gravimetric
	CAS # 156-59-2.SEC (Lot YZO5O)		+/- 56.2305	µg/mL	Unstressed
	Purity 99%		+/- 57.5391	µg/mL	Stressed
7	Chloroform	1,000.8 µg/mL	+/- 27.0736	µg/mL	Gravimetric
	CAS # 67-66-3.SEC (Lot 1297547)		+/- 62.0289	µg/mL	Unstressed
	Purity 99%		+/- 63.2190	µg/mL	Stressed

8	1,1,1-trichloroethane		1,000.3	µg/mL	+/-	27.0618	µg/mL	Gravimetric
	CAS # 71-55-6 *	(Lot 190123CG)			+/-	62.0018	µg/mL	Unstressed
	Purity 98%				+/-	63.1914	µg/mL	Stressed
9	1,1-Dichloropropene		1,000.4	µg/mL	+/-	7.1389	µg/mL	Gravimetric
	CAS # 563-58-6.SEC	(Lot 556500)			+/-	56.2440	µg/mL	Unstressed
	Purity 99%				+/-	57.5529	µg/mL	Stressed
10	Carbon tetrachloride		1,000.8	µg/mL	+/-	27.0736	µg/mL	Gravimetric
	CAS # 56-23-5.SEC	(Lot 11466)			+/-	62.0289	µg/mL	Unstressed
	Purity 99%				+/-	63.2190	µg/mL	Stressed
11	1,2-Dichloroethane		1,000.6	µg/mL	+/-	27.0707	µg/mL	Gravimetric
	CAS # 107-06-2.SEC	(Lot 00016165)			+/-	62.0222	µg/mL	Unstressed
	Purity 99%				+/-	63.2122	µg/mL	Stressed
12	Benzene		1,000.1	µg/mL	+/-	7.1366	µg/mL	Gravimetric
	CAS # 71-43-2.SEC	(Lot B28Y008)			+/-	56.2260	µg/mL	Unstressed
	Purity 99%				+/-	57.5345	µg/mL	Stressed
13	Trichloroethene		1,000.9	µg/mL	+/-	27.0771	µg/mL	Gravimetric
	CAS # 79-01-6.SEC	(Lot H04X050)			+/-	62.0368	µg/mL	Unstressed
	Purity 99%				+/-	63.2271	µg/mL	Stressed
14	1,2-Dichloropropane		1,000.1	µg/mL	+/-	27.0571	µg/mL	Gravimetric
	CAS # 78-87-5.SEC	(Lot ERRBI-RH)			+/-	61.9910	µg/mL	Unstressed
	Purity 99%				+/-	63.1805	µg/mL	Stressed
15	Bromodichloromethane		1,000.8	µg/mL	+/-	27.0749	µg/mL	Gravimetric
	CAS # 75-27-4.SEC	(Lot 13780)			+/-	62.0316	µg/mL	Unstressed
	Purity 99%				+/-	63.2218	µg/mL	Stressed
16	Dibromomethane		1,000.1	µg/mL	+/-	7.1366	µg/mL	Gravimetric
	CAS # 74-95-3.SEC	(Lot MOKKJ)			+/-	56.2260	µg/mL	Unstressed
	Purity 99%				+/-	57.5345	µg/mL	Stressed
17	cis-1,3-Dichloropropene		1,000.9	µg/mL	+/-	27.0778	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC	(Lot 487OA)			+/-	62.0384	µg/mL	Unstressed
	Purity 98%				+/-	63.2287	µg/mL	Stressed
18	Toluene		1,000.1	µg/mL	+/-	7.1366	µg/mL	Gravimetric
	CAS # 108-88-3.SEC	(Lot YND2B-BD)			+/-	56.2260	µg/mL	Unstressed
	Purity 99%				+/-	57.5345	µg/mL	Stressed
19	trans-1,3-Dichloropropene		1,002.1	µg/mL	+/-	27.1112	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC	(Lot ZDMSL)			+/-	62.1150	µg/mL	Unstressed
	Purity 96%				+/-	63.3068	µg/mL	Stressed
20	1,1,2-Trichloroethane		1,001.3	µg/mL	+/-	27.0872	µg/mL	Gravimetric
	CAS # 79-00-5.SEC	(Lot 7871500)			+/-	62.0598	µg/mL	Unstressed
	Purity 99%				+/-	63.2506	µg/mL	Stressed
21	1,3-Dichloropropane		1,000.1	µg/mL	+/-	7.1366	µg/mL	Gravimetric
	CAS # 142-28-9.SEC	(Lot IQCON)			+/-	56.2260	µg/mL	Unstressed
	Purity 99%				+/-	57.5345	µg/mL	Stressed
22	Tetrachloroethene		1,000.2	µg/mL	+/-	27.0598	µg/mL	Gravimetric
	CAS # 127-18-4.SEC	(Lot F09W014)			+/-	61.9972	µg/mL	Unstressed
	Purity 99%				+/-	63.1868	µg/mL	Stressed
23	Dibromochloromethane		1,000.5	µg/mL	+/-	27.0665	µg/mL	Gravimetric
	CAS # 124-48-1.SEC	(Lot 10206360)			+/-	62.0126	µg/mL	Unstressed
	Purity 97%				+/-	63.2024	µg/mL	Stressed

24	1,2-Dibromoethane (EDB)		1,000.3	µg/mL	+/-	7.1384	µg/mL	Gravimetric
	CAS # 106-93-4.SEC	(Lot 8529900)			+/-	56.2395	µg/mL	Unstressed
	Purity 99%				+/-	57.5483	µg/mL	Stressed
25	1-Chlorohexane		1,002.0	µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 544-10-5.SEC	(Lot 8171700)			+/-	56.1943	µg/mL	Unstressed
	Purity 99%				+/-	57.5086	µg/mL	Stressed
26	Chlorobenzene		1,001.4	µg/mL	+/-	27.0909	µg/mL	Gravimetric
	CAS # 108-90-7.SEC	(Lot 1161936)			+/-	62.0684	µg/mL	Unstressed
	Purity 99%				+/-	63.2593	µg/mL	Stressed
27	1,1,1,2-Tetrachloroethane		1,000.5	µg/mL	+/-	7.1395	µg/mL	Gravimetric
	CAS # 630-20-6.SEC	(Lot 9366000)			+/-	56.2485	µg/mL	Unstressed
	Purity 99%				+/-	57.5576	µg/mL	Stressed
28	Ethylbenzene		1,000.4	µg/mL	+/-	7.1389	µg/mL	Gravimetric
	CAS # 100-41-4.SEC	(Lot PI4SE)			+/-	56.2440	µg/mL	Unstressed
	Purity 99%				+/-	57.5529	µg/mL	Stressed
29	m-Xylene		1,000.3	µg/mL	+/-	7.1384	µg/mL	Gravimetric
	CAS # 108-38-3.SEC	(Lot OUKMG-GB)			+/-	56.2395	µg/mL	Unstressed
	Purity 99%				+/-	57.5483	µg/mL	Stressed
30	p-Xylene		1,000.0	µg/mL	+/-	7.1361	µg/mL	Gravimetric
	CAS # 106-42-3.SEC	(Lot D6UOA)			+/-	56.2215	µg/mL	Unstressed
	Purity 99%				+/-	57.5299	µg/mL	Stressed
31	o-Xylene		1,000.2	µg/mL	+/-	7.1372	µg/mL	Gravimetric
	CAS # 95-47-6.SEC	(Lot FGL01)			+/-	56.2305	µg/mL	Unstressed
	Purity 99%				+/-	57.5391	µg/mL	Stressed
32	Styrene		1,000.5	µg/mL	+/-	7.1395	µg/mL	Gravimetric
	CAS # 100-42-5.SEC	(Lot QGQ7F)			+/-	56.2485	µg/mL	Unstressed
	Purity 99%				+/-	57.5576	µg/mL	Stressed
33	Isopropylbenzene (cumene)		1,000.1	µg/mL	+/-	7.1366	µg/mL	Gravimetric
	CAS # 98-82-8.SEC	(Lot WVREC)			+/-	56.2260	µg/mL	Unstressed
	Purity 99%				+/-	57.5345	µg/mL	Stressed
34	Bromoform		1,001.7	µg/mL	+/-	27.1004	µg/mL	Gravimetric
	CAS # 75-25-2.SEC	(Lot 9170700)			+/-	62.0902	µg/mL	Unstressed
	Purity 99%				+/-	63.2815	µg/mL	Stressed
35	1,1,2,2-Tetrachloroethane		1,001.6	µg/mL	+/-	27.0978	µg/mL	Gravimetric
	CAS # 79-34-5.SEC	(Lot BCCB0724)			+/-	62.0842	µg/mL	Unstressed
	Purity 98%				+/-	63.2754	µg/mL	Stressed
36	1,2,3-Trichloropropane		1,000.0	µg/mL	+/-	7.1361	µg/mL	Gravimetric
	CAS # 96-18-4.SEC	(Lot GUHZN)			+/-	56.2215	µg/mL	Unstressed
	Purity 99%				+/-	57.5299	µg/mL	Stressed
37	n-Propylbenzene		1,000.2	µg/mL	+/-	7.1372	µg/mL	Gravimetric
	CAS # 103-65-1.SEC	(Lot T2HFC)			+/-	56.2305	µg/mL	Unstressed
	Purity 99%				+/-	57.5391	µg/mL	Stressed
38	Bromobenzene		1,000.1	µg/mL	+/-	7.1366	µg/mL	Gravimetric
	CAS # 108-86-1.SEC	(Lot 8DKWJ)			+/-	56.2260	µg/mL	Unstressed
	Purity 99%				+/-	57.5345	µg/mL	Stressed
39	1,3,5-Trichlorobenzene		1,002.0	µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 108-70-3.SEC	(Lot I28U021)			+/-	56.1943	µg/mL	Unstressed
	Purity 99%				+/-	57.5086	µg/mL	Stressed

40	2-Chlorotoluene		1,000.1	µg/mL	+/- 7.1366	µg/mL	Gravimetric
	CAS # 95-49-8.SEC	(Lot BRHPM)			+/- 56.2260	µg/mL	Unstressed
	Purity 99%				+/- 57.5345	µg/mL	Stressed
41	4-Chlorotoluene		1,000.1	µg/mL	+/- 7.1366	µg/mL	Gravimetric
	CAS # 106-43-4.SEC	(Lot S5SKD)			+/- 56.2260	µg/mL	Unstressed
	Purity 99%				+/- 57.5345	µg/mL	Stressed
42	tert-Butylbenzene		1,000.2	µg/mL	+/- 7.1378	µg/mL	Gravimetric
	CAS # 98-06-6.SEC	(Lot D6OHC)			+/- 56.2350	µg/mL	Unstressed
	Purity 99%				+/- 57.5437	µg/mL	Stressed
43	1,2,4-Trimethylbenzene		1,000.5	µg/mL	+/- 7.1395	µg/mL	Gravimetric
	CAS # 95-63-6.SEC	(Lot JMIYD)			+/- 56.2485	µg/mL	Unstressed
	Purity 99%				+/- 57.5576	µg/mL	Stressed
44	sec-Butylbenzene		1,000.0	µg/mL	+/- 7.1361	µg/mL	Gravimetric
	CAS # 135-98-8.SEC	(Lot O4HRF)			+/- 56.2215	µg/mL	Unstressed
	Purity 99%				+/- 57.5299	µg/mL	Stressed
45	4-Isopropyltoluene (p-cymene)		1,000.2	µg/mL	+/- 7.1378	µg/mL	Gravimetric
	CAS # 99-87-6.SEC	(Lot 6628200)			+/- 56.2350	µg/mL	Unstressed
	Purity 99%				+/- 57.5437	µg/mL	Stressed
46	1,3-Dichlorobenzene		1,000.1	µg/mL	+/- 27.0551	µg/mL	Gravimetric
	CAS # 541-73-1.SEC	(Lot FMDFD)			+/- 61.9864	µg/mL	Unstressed
	Purity 99%				+/- 63.1757	µg/mL	Stressed
47	1,4-Dichlorobenzene		1,002.5	µg/mL	+/- 27.1206	µg/mL	Gravimetric
	CAS # 106-46-7.SEC	(Lot YWKDC-MK)			+/- 62.1364	µg/mL	Unstressed
	Purity 99%				+/- 63.3286	µg/mL	Stressed
48	n-Butylbenzene		1,000.2	µg/mL	+/- 7.1372	µg/mL	Gravimetric
	CAS # 104-51-8.SEC	(Lot MMPGA)			+/- 56.2305	µg/mL	Unstressed
	Purity 99%				+/- 57.5391	µg/mL	Stressed
49	1,2-Dichlorobenzene		1,001.6	µg/mL	+/- 27.0966	µg/mL	Gravimetric
	CAS # 95-50-1.SEC	(Lot R6QDM)			+/- 62.0815	µg/mL	Unstressed
	Purity 99%				+/- 63.2727	µg/mL	Stressed
50	1,2-Dibromo-3-chloropropane		1,000.5	µg/mL	+/- 7.1395	µg/mL	Gravimetric
	CAS # 96-12-8.SEC	(Lot Q135-105)			+/- 56.2485	µg/mL	Unstressed
	Purity 99%				+/- 57.5576	µg/mL	Stressed
51	1,3,5-Trimethylbenzene		1,000.2	µg/mL	+/- 7.1372	µg/mL	Gravimetric
	CAS # 108-67-8.SEC	(Lot TOOOF)			+/- 56.2305	µg/mL	Unstressed
	Purity 99%				+/- 57.5391	µg/mL	Stressed
52	1,2,4-Trichlorobenzene		1,000.2	µg/mL	+/- 7.1372	µg/mL	Gravimetric
	CAS # 120-82-1.SEC	(Lot IGLFA)			+/- 56.2305	µg/mL	Unstressed
	Purity 99%				+/- 57.5391	µg/mL	Stressed
53	Hexachlorobutadiene		1,000.0	µg/mL	+/- 7.1363	µg/mL	Gravimetric
	CAS # 87-68-3.SEC	(Lot 6878400)			+/- 56.2232	µg/mL	Unstressed
	Purity 97%				+/- 57.5317	µg/mL	Stressed
54	Naphthalene		1,000.4	µg/mL	+/- 7.1389	µg/mL	Gravimetric
	CAS # 91-20-3.SEC	(Lot SKZ5N)			+/- 56.2440	µg/mL	Unstressed
	Purity 99%				+/- 57.5529	µg/mL	Stressed
55	1,2,3-Trichlorobenzene		1,000.2	µg/mL	+/- 7.1377	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)			+/- 56.2342	µg/mL	Unstressed
	Purity 98%				+/- 57.5430	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)

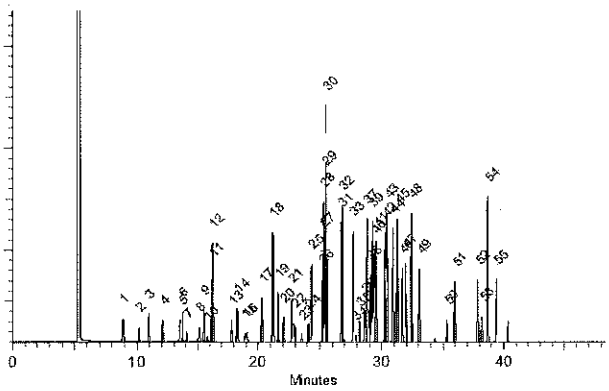
Carrier Gas:
hydrogen-constant pressure 8.0 psi.

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 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.

Michael J Maye

Date Mixed: 20-Oct-2020 **Balance:** 1128342314

Justine Albertson - Operations Tech-ARM QC

Date Passed: 23-Oct-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) -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#3B_00062

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. : 56736.SEC **Lot No.:** A0158722

Description : Custom Q #3B Standard

Custom Q #3B Standard 1,000-7,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

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

Expiration Date : September 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	7,550.0 µg/mL	+/- 44.3076 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot U13B039)		+/- 373.5308 µg/mL	Unstressed
	Purity 99%		+/- 382.8166 µg/mL	Stressed
2	Acrylonitrile	5,003.0 µg/mL	+/- 29.3604 µg/mL	Gravimetric
	CAS # 107-13-1.SEC (Lot CCFKL-GL)		+/- 247.5198 µg/mL	Unstressed
	Purity 99%		+/- 253.6730 µg/mL	Stressed
3	2-Butanone (MEK)	7,517.0 µg/mL	+/- 44.1140 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 371.8982 µg/mL	Unstressed
	Purity 99%		+/- 381.1434 µg/mL	Stressed
4	Tetrahydrofuran	5,023.0 µg/mL	+/- 29.4778 µg/mL	Gravimetric
	CAS # 109-99-9.SEC (Lot 8DAOJ)		+/- 248.5093 µg/mL	Unstressed
	Purity 99%		+/- 254.6871 µg/mL	Stressed
5	2-Nitropropane	1,000.6 µg/mL	+/- 5.9431 µg/mL	Gravimetric
	CAS # 79-46-9.SEC (Lot Y4YWD)		+/- 49.5115 µg/mL	Unstressed
	Purity 98%		+/- 50.7419 µg/mL	Stressed
6	4-Methyl-2-pentanone (MIBK)	5,032.0 µg/mL	+/- 29.5306 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 248.9546 µg/mL	Unstressed
	Purity 99%		+/- 255.1435 µg/mL	Stressed
7	2-Hexanone	5,036.2 µg/mL	+/- 29.5554 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 249.1634 µg/mL	Unstressed
	Purity 98%		+/- 255.3574 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)

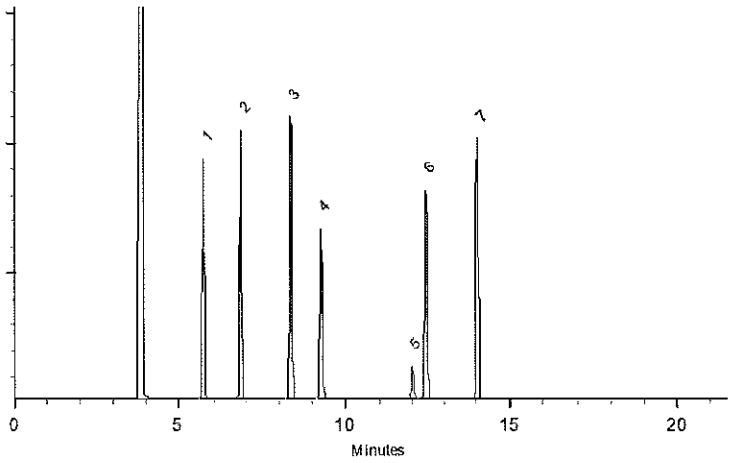
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Brandon Reish - Mix Technician

Date Mixed: 11-Mar-2020 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 19-Mar-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_Q#3B_00063

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. : 56736.SEC **Lot No.:** A0158722

Description : Custom Q #3B Standard

Custom Q #3B Standard 1,000-7,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

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

Expiration Date : September 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	7,550.0 µg/mL	+/- 44.3076 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot U13B039)		+/- 373.5308 µg/mL	Unstressed
	Purity 99%		+/- 382.8166 µg/mL	Stressed
2	Acrylonitrile	5,003.0 µg/mL	+/- 29.3604 µg/mL	Gravimetric
	CAS # 107-13-1.SEC (Lot CCFKL-GL)		+/- 247.5198 µg/mL	Unstressed
	Purity 99%		+/- 253.6730 µg/mL	Stressed
3	2-Butanone (MEK)	7,517.0 µg/mL	+/- 44.1140 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 371.8982 µg/mL	Unstressed
	Purity 99%		+/- 381.1434 µg/mL	Stressed
4	Tetrahydrofuran	5,023.0 µg/mL	+/- 29.4778 µg/mL	Gravimetric
	CAS # 109-99-9.SEC (Lot 8DAOJ)		+/- 248.5093 µg/mL	Unstressed
	Purity 99%		+/- 254.6871 µg/mL	Stressed
5	2-Nitropropane	1,000.6 µg/mL	+/- 5.9431 µg/mL	Gravimetric
	CAS # 79-46-9.SEC (Lot Y4YWD)		+/- 49.5115 µg/mL	Unstressed
	Purity 98%		+/- 50.7419 µg/mL	Stressed
6	4-Methyl-2-pentanone (MIBK)	5,032.0 µg/mL	+/- 29.5306 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 248.9546 µg/mL	Unstressed
	Purity 99%		+/- 255.1435 µg/mL	Stressed
7	2-Hexanone	5,036.2 µg/mL	+/- 29.5554 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 249.1634 µg/mL	Unstressed
	Purity 98%		+/- 255.3574 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)

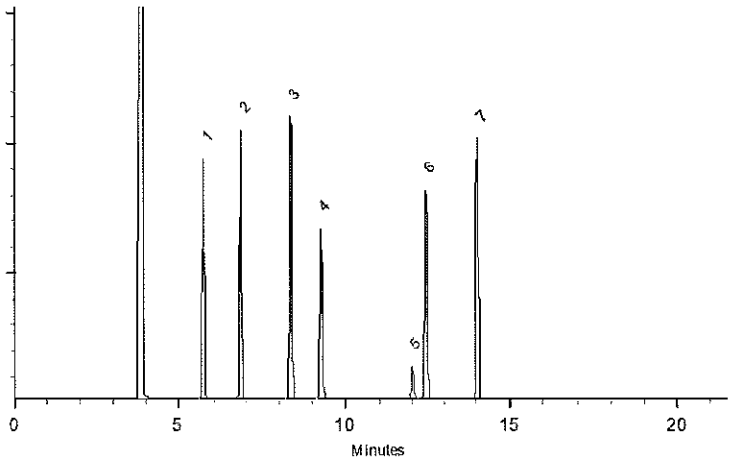
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Brandon Reish - Mix Technician

Date Mixed: 11-Mar-2020 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 19-Mar-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_Q#3B_00078

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. : 56736.SEC **Lot No.:** A0158722

Description : Custom Q #3B Standard

Custom Q #3B Standard 1,000-7,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

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

Expiration Date : September 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	7,550.0 µg/mL	+/- 44.3076 µg/mL	Gravimetric
	CAS # 67-64-1.SEC (Lot U13B039)		+/- 373.5308 µg/mL	Unstressed
	Purity 99%		+/- 382.8166 µg/mL	Stressed
2	Acrylonitrile	5,003.0 µg/mL	+/- 29.3604 µg/mL	Gravimetric
	CAS # 107-13-1.SEC (Lot CCFKL-GL)		+/- 247.5198 µg/mL	Unstressed
	Purity 99%		+/- 253.6730 µg/mL	Stressed
3	2-Butanone (MEK)	7,517.0 µg/mL	+/- 44.1140 µg/mL	Gravimetric
	CAS # 78-93-3.SEC (Lot RGZ2A)		+/- 371.8982 µg/mL	Unstressed
	Purity 99%		+/- 381.1434 µg/mL	Stressed
4	Tetrahydrofuran	5,023.0 µg/mL	+/- 29.4778 µg/mL	Gravimetric
	CAS # 109-99-9.SEC (Lot 8DAOJ)		+/- 248.5093 µg/mL	Unstressed
	Purity 99%		+/- 254.6871 µg/mL	Stressed
5	2-Nitropropane	1,000.6 µg/mL	+/- 5.9431 µg/mL	Gravimetric
	CAS # 79-46-9.SEC (Lot Y4YWD)		+/- 49.5115 µg/mL	Unstressed
	Purity 98%		+/- 50.7419 µg/mL	Stressed
6	4-Methyl-2-pentanone (MIBK)	5,032.0 µg/mL	+/- 29.5306 µg/mL	Gravimetric
	CAS # 108-10-1.SEC (Lot E29T040)		+/- 248.9546 µg/mL	Unstressed
	Purity 99%		+/- 255.1435 µg/mL	Stressed
7	2-Hexanone	5,036.2 µg/mL	+/- 29.5554 µg/mL	Gravimetric
	CAS # 591-78-6.SEC (Lot Y3TUO)		+/- 249.1634 µg/mL	Unstressed
	Purity 98%		+/- 255.3574 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)

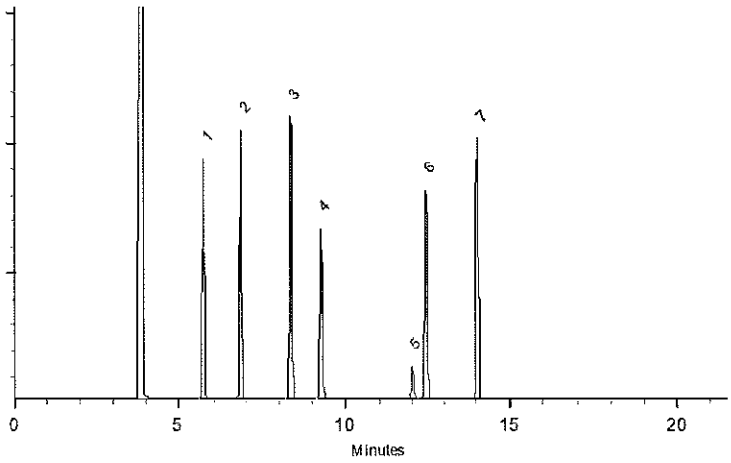
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Brandon Reish - Mix Technician

Date Mixed: 11-Mar-2020 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 19-Mar-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_Q#4C_00065

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. : 572312.SEC **Lot No.:** A0158704

Description : Custom Q #4C (Rev 3) Standard

Custom Q #4C (Rev 3) Standard 1,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : March 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,3-Butadiene	999.8 µg/mL	+/- 9.3559 µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 24033)		+/- 60.7686 µg/mL	Unstressed
	Purity 99%		+/- 60.9107 µg/mL	Stressed
2	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	998.8 µg/mL	+/- 17.4916 µg/mL	Gravimetric
	CAS # 354-23-4 * (Lot Q9B-64)		+/- 62.4823 µg/mL	Unstressed
	Purity 99%		+/- 62.6203 µg/mL	Stressed
3	n-Pentane (C5)	1,002.5 µg/mL	+/- 5.8832 µg/mL	Gravimetric
	CAS # 109-66-0.SEC (Lot FGH02)		+/- 60.4906 µg/mL	Unstressed
	Purity 99%		+/- 60.6341 µg/mL	Stressed
4	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,003.5 µg/mL	+/- 5.8891 µg/mL	Gravimetric
	CAS # 76-13-1.SEC (Lot 18342)		+/- 60.5509 µg/mL	Unstressed
	Purity 99%		+/- 60.6946 µg/mL	Stressed
5	Iodomethane (methyl iodide)	1,008.0 µg/mL	+/- 5.9155 µg/mL	Gravimetric
	CAS # 74-88-4.SEC (Lot Y25A027)		+/- 60.8224 µg/mL	Unstressed
	Purity 99%		+/- 60.9668 µg/mL	Stressed
6	Carbon disulfide	1,005.0 µg/mL	+/- 5.8979 µg/mL	Gravimetric
	CAS # 75-15-0.SEC (Lot MKBL1376V)		+/- 60.6414 µg/mL	Unstressed
	Purity 99%		+/- 60.7854 µg/mL	Stressed
7	Methyl-tert-butyl ether (MTBE)	1,002.0 µg/mL	+/- 5.8803 µg/mL	Gravimetric
	CAS # 1634-04-4.SEC (Lot ZHKYA)		+/- 60.4604 µg/mL	Unstressed
	Purity 99%		+/- 60.6039 µg/mL	Stressed

8	n-Hexane (C6)		1,002.0	µg/mL	+/-	5.8803	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot 10188491)			+/-	60.4604	µg/mL	Unstressed
	Purity 99%				+/-	60.6039	µg/mL	Stressed
9	Diisopropyl ether (DIPE)		1,003.0	µg/mL	+/-	5.8862	µg/mL	Gravimetric
	CAS # 108-20-3.SEC	(Lot LL7TN-SH)			+/-	60.5207	µg/mL	Unstressed
	Purity 99%				+/-	60.6644	µg/mL	Stressed
10	Chloroprene (2-chloro-1,3-butadiene)		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 126-99-8 *	(Lot 191204JLM)			+/-	60.4302	µg/mL	Unstressed
	Purity 99%				+/-	60.5737	µg/mL	Stressed
11	Ethyl-tert-butyl ether (ETBE)		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 637-92-3.SEC	(Lot MHBJG-QK)			+/-	60.4000	µg/mL	Unstressed
	Purity 99%				+/-	60.5434	µg/mL	Stressed
12	Cyclohexane		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	60.4302	µg/mL	Unstressed
	Purity 99%				+/-	60.5737	µg/mL	Stressed
13	tert-Amyl methyl ether (TAME)		1,006.0	µg/mL	+/-	5.9038	µg/mL	Gravimetric
	CAS # 994-05-8.SEC	(Lot 8471400)			+/-	60.7017	µg/mL	Unstressed
	Purity 99%				+/-	60.8458	µg/mL	Stressed
14	n-Heptane (C7)		1,006.0	µg/mL	+/-	5.9038	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot OGM01)			+/-	60.7017	µg/mL	Unstressed
	Purity 99%				+/-	60.8458	µg/mL	Stressed
15	tert-Amyl ethyl ether (TAEE)		1,006.0	µg/mL	+/-	5.9038	µg/mL	Gravimetric
	CAS # 919-94-8.SEC	(Lot 6455100)			+/-	60.7017	µg/mL	Unstressed
	Purity 99%				+/-	60.8458	µg/mL	Stressed
16	Methyl methacrylate		1,006.0	µg/mL	+/-	5.9038	µg/mL	Gravimetric
	CAS # 80-62-6.SEC	(Lot G01X021)			+/-	60.7017	µg/mL	Unstressed
	Purity 99%				+/-	60.8458	µg/mL	Stressed
17	Ethyl methacrylate		1,004.5	µg/mL	+/-	5.8950	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot MLWYK-LS)			+/-	60.6112	µg/mL	Unstressed
	Purity 99%				+/-	60.7551	µg/mL	Stressed
18	Benzyl chloride		1,003.5	µg/mL	+/-	5.8891	µg/mL	Gravimetric
	CAS # 100-44-7.SEC	(Lot H29N03)			+/-	60.5509	µg/mL	Unstressed
	Purity 99%				+/-	60.6946	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)

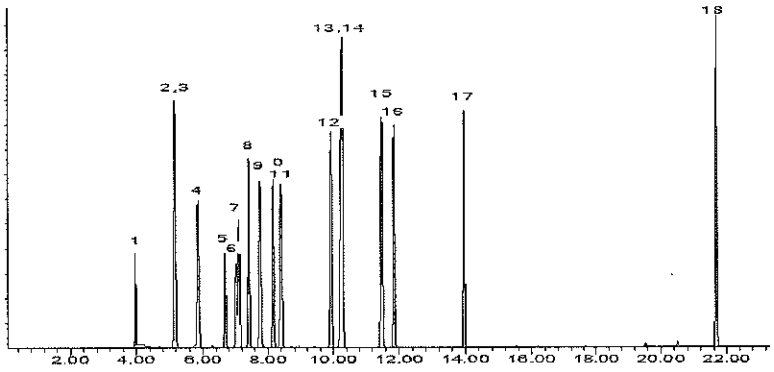
Carrier Gas:
helium-constant pressure 30 psi

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.

Matt Fragassi - Mix Technician

Date Mixed: 11-Mar-2020 **Balance:** 1128342314

Feng-Yun Lo – QC Analyst

Date Passed: 25-Mar-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_Q#4C_00066

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
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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. : 572312.SEC **Lot No.:** A0158704

Description : Custom Q #4C (Rev 3) Standard

Custom Q #4C (Rev 3) Standard 1,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : March 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,3-Butadiene	999.8 µg/mL	+/- 9.3559 µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 24033)		+/- 60.7686 µg/mL	Unstressed
	Purity 99%		+/- 60.9107 µg/mL	Stressed
2	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	998.8 µg/mL	+/- 17.4916 µg/mL	Gravimetric
	CAS # 354-23-4 * (Lot Q9B-64)		+/- 62.4823 µg/mL	Unstressed
	Purity 99%		+/- 62.6203 µg/mL	Stressed
3	n-Pentane (C5)	1,002.5 µg/mL	+/- 5.8832 µg/mL	Gravimetric
	CAS # 109-66-0.SEC (Lot FGH02)		+/- 60.4906 µg/mL	Unstressed
	Purity 99%		+/- 60.6341 µg/mL	Stressed
4	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,003.5 µg/mL	+/- 5.8891 µg/mL	Gravimetric
	CAS # 76-13-1.SEC (Lot 18342)		+/- 60.5509 µg/mL	Unstressed
	Purity 99%		+/- 60.6946 µg/mL	Stressed
5	Iodomethane (methyl iodide)	1,008.0 µg/mL	+/- 5.9155 µg/mL	Gravimetric
	CAS # 74-88-4.SEC (Lot Y25A027)		+/- 60.8224 µg/mL	Unstressed
	Purity 99%		+/- 60.9668 µg/mL	Stressed
6	Carbon disulfide	1,005.0 µg/mL	+/- 5.8979 µg/mL	Gravimetric
	CAS # 75-15-0.SEC (Lot MKBL1376V)		+/- 60.6414 µg/mL	Unstressed
	Purity 99%		+/- 60.7854 µg/mL	Stressed
7	Methyl-tert-butyl ether (MTBE)	1,002.0 µg/mL	+/- 5.8803 µg/mL	Gravimetric
	CAS # 1634-04-4.SEC (Lot ZHKYA)		+/- 60.4604 µg/mL	Unstressed
	Purity 99%		+/- 60.6039 µg/mL	Stressed

8	n-Hexane (C6)		1,002.0	µg/mL	+/-	5.8803	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot 10188491)			+/-	60.4604	µg/mL	Unstressed
	Purity 99%				+/-	60.6039	µg/mL	Stressed
9	Diisopropyl ether (DIPE)		1,003.0	µg/mL	+/-	5.8862	µg/mL	Gravimetric
	CAS # 108-20-3.SEC	(Lot LL7TN-SH)			+/-	60.5207	µg/mL	Unstressed
	Purity 99%				+/-	60.6644	µg/mL	Stressed
10	Chloroprene (2-chloro-1,3-butadiene)		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 126-99-8 *	(Lot 191204JLM)			+/-	60.4302	µg/mL	Unstressed
	Purity 99%				+/-	60.5737	µg/mL	Stressed
11	Ethyl-tert-butyl ether (ETBE)		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 637-92-3.SEC	(Lot MHBJG-QK)			+/-	60.4000	µg/mL	Unstressed
	Purity 99%				+/-	60.5434	µg/mL	Stressed
12	Cyclohexane		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	60.4302	µg/mL	Unstressed
	Purity 99%				+/-	60.5737	µg/mL	Stressed
13	tert-Amyl methyl ether (TAME)		1,006.0	µg/mL	+/-	5.9038	µg/mL	Gravimetric
	CAS # 994-05-8.SEC	(Lot 8471400)			+/-	60.7017	µg/mL	Unstressed
	Purity 99%				+/-	60.8458	µg/mL	Stressed
14	n-Heptane (C7)		1,006.0	µg/mL	+/-	5.9038	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot OGM01)			+/-	60.7017	µg/mL	Unstressed
	Purity 99%				+/-	60.8458	µg/mL	Stressed
15	tert-Amyl ethyl ether (TAEE)		1,006.0	µg/mL	+/-	5.9038	µg/mL	Gravimetric
	CAS # 919-94-8.SEC	(Lot 6455100)			+/-	60.7017	µg/mL	Unstressed
	Purity 99%				+/-	60.8458	µg/mL	Stressed
16	Methyl methacrylate		1,006.0	µg/mL	+/-	5.9038	µg/mL	Gravimetric
	CAS # 80-62-6.SEC	(Lot G01X021)			+/-	60.7017	µg/mL	Unstressed
	Purity 99%				+/-	60.8458	µg/mL	Stressed
17	Ethyl methacrylate		1,004.5	µg/mL	+/-	5.8950	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot MLWYK-LS)			+/-	60.6112	µg/mL	Unstressed
	Purity 99%				+/-	60.7551	µg/mL	Stressed
18	Benzyl chloride		1,003.5	µg/mL	+/-	5.8891	µg/mL	Gravimetric
	CAS # 100-44-7.SEC	(Lot H29N03)			+/-	60.5509	µg/mL	Unstressed
	Purity 99%				+/-	60.6946	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)

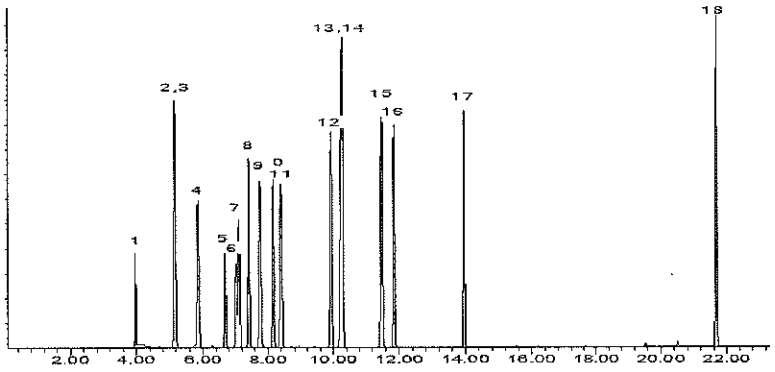
Carrier Gas:
helium-constant pressure 30 psi

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.

Matt Fragassi - Mix Technician

Date Mixed: 11-Mar-2020 **Balance:** 1128342314

Feng-Yun Lo – QC Analyst

Date Passed: 25-Mar-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_Q#4C_00085

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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. : 572312.SEC **Lot No.:** A0158704

Description : Custom Q #4C (Rev 3) Standard

Custom Q #4C (Rev 3) Standard 1,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : March 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,3-Butadiene	999.8 µg/mL	+/- 9.3559	µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 24033)		+/- 60.7686	µg/mL	Unstressed
	Purity 99%		+/- 60.9107	µg/mL	Stressed
2	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	998.8 µg/mL	+/- 17.4916	µg/mL	Gravimetric
	CAS # 354-23-4 * (Lot Q9B-64)		+/- 62.4823	µg/mL	Unstressed
	Purity 99%		+/- 62.6203	µg/mL	Stressed
3	n-Pentane (C5)	1,002.5 µg/mL	+/- 5.8832	µg/mL	Gravimetric
	CAS # 109-66-0.SEC (Lot FGH02)		+/- 60.4906	µg/mL	Unstressed
	Purity 99%		+/- 60.6341	µg/mL	Stressed
4	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,003.5 µg/mL	+/- 5.8891	µg/mL	Gravimetric
	CAS # 76-13-1.SEC (Lot 18342)		+/- 60.5509	µg/mL	Unstressed
	Purity 99%		+/- 60.6946	µg/mL	Stressed
5	Iodomethane (methyl iodide)	1,008.0 µg/mL	+/- 5.9155	µg/mL	Gravimetric
	CAS # 74-88-4.SEC (Lot Y25A027)		+/- 60.8224	µg/mL	Unstressed
	Purity 99%		+/- 60.9668	µg/mL	Stressed
6	Carbon disulfide	1,005.0 µg/mL	+/- 5.8979	µg/mL	Gravimetric
	CAS # 75-15-0.SEC (Lot MKBL1376V)		+/- 60.6414	µg/mL	Unstressed
	Purity 99%		+/- 60.7854	µg/mL	Stressed
7	Methyl-tert-butyl ether (MTBE)	1,002.0 µg/mL	+/- 5.8803	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC (Lot ZHKYA)		+/- 60.4604	µg/mL	Unstressed
	Purity 99%		+/- 60.6039	µg/mL	Stressed

8	n-Hexane (C6)		1,002.0	µg/mL	+/-	5.8803	µg/mL	Gravimetric
	CAS # 110-54-3.SEC	(Lot 10188491)			+/-	60.4604	µg/mL	Unstressed
	Purity 99%				+/-	60.6039	µg/mL	Stressed
9	Diisopropyl ether (DIPE)		1,003.0	µg/mL	+/-	5.8862	µg/mL	Gravimetric
	CAS # 108-20-3.SEC	(Lot LL7TN-SH)			+/-	60.5207	µg/mL	Unstressed
	Purity 99%				+/-	60.6644	µg/mL	Stressed
10	Chloroprene (2-chloro-1,3-butadiene)		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 126-99-8 *	(Lot 191204JLM)			+/-	60.4302	µg/mL	Unstressed
	Purity 99%				+/-	60.5737	µg/mL	Stressed
11	Ethyl-tert-butyl ether (ETBE)		1,001.0	µg/mL	+/-	5.8744	µg/mL	Gravimetric
	CAS # 637-92-3.SEC	(Lot MHBJG-QK)			+/-	60.4000	µg/mL	Unstressed
	Purity 99%				+/-	60.5434	µg/mL	Stressed
12	Cyclohexane		1,001.5	µg/mL	+/-	5.8774	µg/mL	Gravimetric
	CAS # 110-82-7.SEC	(Lot YADRA)			+/-	60.4302	µg/mL	Unstressed
	Purity 99%				+/-	60.5737	µg/mL	Stressed
13	tert-Amyl methyl ether (TAME)		1,006.0	µg/mL	+/-	5.9038	µg/mL	Gravimetric
	CAS # 994-05-8.SEC	(Lot 8471400)			+/-	60.7017	µg/mL	Unstressed
	Purity 99%				+/-	60.8458	µg/mL	Stressed
14	n-Heptane (C7)		1,006.0	µg/mL	+/-	5.9038	µg/mL	Gravimetric
	CAS # 142-82-5.SEC	(Lot OGM01)			+/-	60.7017	µg/mL	Unstressed
	Purity 99%				+/-	60.8458	µg/mL	Stressed
15	tert-Amyl ethyl ether (TAEE)		1,006.0	µg/mL	+/-	5.9038	µg/mL	Gravimetric
	CAS # 919-94-8.SEC	(Lot 6455100)			+/-	60.7017	µg/mL	Unstressed
	Purity 99%				+/-	60.8458	µg/mL	Stressed
16	Methyl methacrylate		1,006.0	µg/mL	+/-	5.9038	µg/mL	Gravimetric
	CAS # 80-62-6.SEC	(Lot G01X021)			+/-	60.7017	µg/mL	Unstressed
	Purity 99%				+/-	60.8458	µg/mL	Stressed
17	Ethyl methacrylate		1,004.5	µg/mL	+/-	5.8950	µg/mL	Gravimetric
	CAS # 97-63-2.SEC	(Lot MLWYK-LS)			+/-	60.6112	µg/mL	Unstressed
	Purity 99%				+/-	60.7551	µg/mL	Stressed
18	Benzyl chloride		1,003.5	µg/mL	+/-	5.8891	µg/mL	Gravimetric
	CAS # 100-44-7.SEC	(Lot H29N03)			+/-	60.5509	µg/mL	Unstressed
	Purity 99%				+/-	60.6946	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)

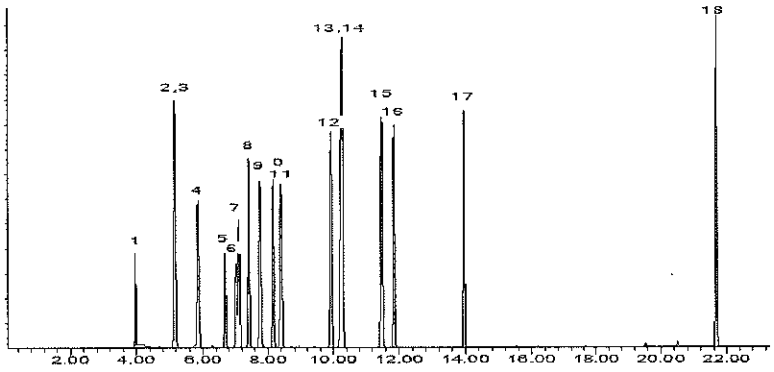
Carrier Gas:
helium-constant pressure 30 psi

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.

Matt Fragassi - Mix Technician

Date Mixed: 11-Mar-2020 **Balance:** 1128342314

Feng-Yun Lo – QC Analyst

Date Passed: 25-Mar-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_QCS#6Std_00064

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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. : 558268.SEC **Lot No.:** A0158906

Description : Custom QCS #6 Standard

Custom QCS #6 Standard 1,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : September 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Methyl acetate		1,005.3 µg/mL	+/- 5.9714 µg/mL	Gravimetric
	CAS # 79-20-9.SEC	(Lot 6WOXM-KD)		+/- 60.6685 µg/mL	Unstressed
	Purity 99%			+/- 60.8125 µg/mL	Stressed
2	Allyl chloride (3-chloropropene)		1,001.3 µg/mL	+/- 5.9476 µg/mL	Gravimetric
	CAS # 107-05-1.SEC	(Lot H3HGC)		+/- 60.4271 µg/mL	Unstressed
	Purity 99%			+/- 60.5705 µg/mL	Stressed
3	Bromochloromethane		1,002.0 µg/mL	+/- 5.9516 µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 8529200)		+/- 60.4674 µg/mL	Unstressed
	Purity 99%			+/- 60.6109 µg/mL	Stressed
4	Methylcyclohexane		1,004.7 µg/mL	+/- 5.9674 µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot 24MSD-CD)		+/- 60.6283 µg/mL	Unstressed
	Purity 99%			+/- 60.7722 µg/mL	Stressed
5	Pentachloroethane		1,004.7 µg/mL	+/- 5.9674 µg/mL	Gravimetric
	CAS # 76-01-7.SEC	(Lot 8170200)		+/- 60.6283 µg/mL	Unstressed
	Purity 99%			+/- 60.7722 µg/mL	Stressed
6	1,2,3-Trimethylbenzene		1,004.6 µg/mL	+/- 5.9673 µg/mL	Gravimetric
	CAS # 526-73-8.SEC	(Lot 7110200)		+/- 60.6267 µg/mL	Unstressed
	Purity 92%			+/- 60.7706 µg/mL	Stressed
7	1,3-Diethylbenzene		1,006.0 µg/mL	+/- 5.9753 µg/mL	Gravimetric
	CAS # 141-93-5.SEC	(Lot 113566-1)		+/- 60.7087 µg/mL	Unstressed
	Purity 99%			+/- 60.8528 µg/mL	Stressed

8	1,4-Diethylbenzene		1,006.1 µg/mL	+/-	5.9761	µg/mL	Gravimetric
	CAS # 105-05-5.SEC	(Lot FBQ02)		+/-	60.7168	µg/mL	Unstressed
	Purity 98%			+/-	60.8609	µg/mL	Stressed
9	1,2-Diethylbenzene		1,008.7 µg/mL	+/-	5.9912	µg/mL	Gravimetric
	CAS # 135-01-3.SEC	(Lot BCBF3667V)		+/-	60.8697	µg/mL	Unstressed
	Purity 99%			+/-	61.0141	µg/mL	Stressed
10	2-Methylnaphthalene		1,006.0 µg/mL	+/-	5.9753	µg/mL	Gravimetric
	CAS # 91-57-6.SEC	(Lot 76023-1)		+/-	60.7087	µg/mL	Unstressed
	Purity 99%			+/-	60.8528	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)

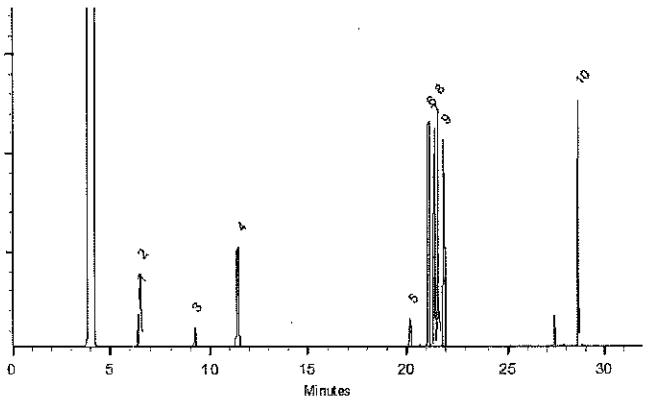
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Dalton Stover - Operations Technician I

Date Mixed: 17-Mar-2020 **Balance:** 1128342314

Feng-Yun Lo - QC Analyst

Date Passed: 20-Mar-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_QCS#6Std_00074

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Bellefonte, PA 16823-8812
Tel: (800)356-1688
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www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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. : 558268.SEC **Lot No.:** A0158906

Description : Custom QCS #6 Standard

Custom QCS #6 Standard 1,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : September 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Methyl acetate		1,005.3 µg/mL	+/- 5.9714	µg/mL	Gravimetric
	CAS # 79-20-9.SEC	(Lot 6WOXM-KD)		+/- 60.6685	µg/mL	Unstressed
	Purity 99%			+/- 60.8125	µg/mL	Stressed
2	Allyl chloride (3-chloropropene)		1,001.3 µg/mL	+/- 5.9476	µg/mL	Gravimetric
	CAS # 107-05-1.SEC	(Lot H3HGC)		+/- 60.4271	µg/mL	Unstressed
	Purity 99%			+/- 60.5705	µg/mL	Stressed
3	Bromochloromethane		1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 8529200)		+/- 60.4674	µg/mL	Unstressed
	Purity 99%			+/- 60.6109	µg/mL	Stressed
4	Methylcyclohexane		1,004.7 µg/mL	+/- 5.9674	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot 24MSD-CD)		+/- 60.6283	µg/mL	Unstressed
	Purity 99%			+/- 60.7722	µg/mL	Stressed
5	Pentachloroethane		1,004.7 µg/mL	+/- 5.9674	µg/mL	Gravimetric
	CAS # 76-01-7.SEC	(Lot 8170200)		+/- 60.6283	µg/mL	Unstressed
	Purity 99%			+/- 60.7722	µg/mL	Stressed
6	1,2,3-Trimethylbenzene		1,004.6 µg/mL	+/- 5.9673	µg/mL	Gravimetric
	CAS # 526-73-8.SEC	(Lot 7110200)		+/- 60.6267	µg/mL	Unstressed
	Purity 92%			+/- 60.7706	µg/mL	Stressed
7	1,3-Diethylbenzene		1,006.0 µg/mL	+/- 5.9753	µg/mL	Gravimetric
	CAS # 141-93-5.SEC	(Lot 113566-1)		+/- 60.7087	µg/mL	Unstressed
	Purity 99%			+/- 60.8528	µg/mL	Stressed

8	1,4-Diethylbenzene		1,006.1 µg/mL	+/-	5.9761	µg/mL	Gravimetric
	CAS # 105-05-5.SEC	(Lot FBQ02)		+/-	60.7168	µg/mL	Unstressed
	Purity 98%			+/-	60.8609	µg/mL	Stressed
9	1,2-Diethylbenzene		1,008.7 µg/mL	+/-	5.9912	µg/mL	Gravimetric
	CAS # 135-01-3.SEC	(Lot BCBF3667V)		+/-	60.8697	µg/mL	Unstressed
	Purity 99%			+/-	61.0141	µg/mL	Stressed
10	2-Methylnaphthalene		1,006.0 µg/mL	+/-	5.9753	µg/mL	Gravimetric
	CAS # 91-57-6.SEC	(Lot 76023-1)		+/-	60.7087	µg/mL	Unstressed
	Purity 99%			+/-	60.8528	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)

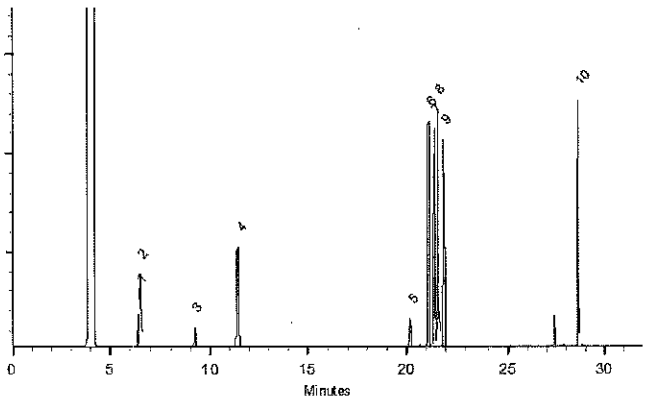
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Dalton Stover - Operations Technician I

Date Mixed: 17-Mar-2020 **Balance:** 1128342314

Feng-Yun Lo - QC Analyst

Date Passed: 20-Mar-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_QCS#6Std_00084

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
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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. : 558268.SEC **Lot No.:** A0158906

Description : Custom QCS #6 Standard

Custom QCS #6 Standard 1,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : September 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Methyl acetate		1,005.3 µg/mL	+/- 5.9714	µg/mL	Gravimetric
	CAS # 79-20-9.SEC	(Lot 6WOXM-KD)		+/- 60.6685	µg/mL	Unstressed
	Purity 99%			+/- 60.8125	µg/mL	Stressed
2	Allyl chloride (3-chloropropene)		1,001.3 µg/mL	+/- 5.9476	µg/mL	Gravimetric
	CAS # 107-05-1.SEC	(Lot H3HGC)		+/- 60.4271	µg/mL	Unstressed
	Purity 99%			+/- 60.5705	µg/mL	Stressed
3	Bromochloromethane		1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 74-97-5.SEC	(Lot 8529200)		+/- 60.4674	µg/mL	Unstressed
	Purity 99%			+/- 60.6109	µg/mL	Stressed
4	Methylcyclohexane		1,004.7 µg/mL	+/- 5.9674	µg/mL	Gravimetric
	CAS # 108-87-2.SEC	(Lot 24MSD-CD)		+/- 60.6283	µg/mL	Unstressed
	Purity 99%			+/- 60.7722	µg/mL	Stressed
5	Pentachloroethane		1,004.7 µg/mL	+/- 5.9674	µg/mL	Gravimetric
	CAS # 76-01-7.SEC	(Lot 8170200)		+/- 60.6283	µg/mL	Unstressed
	Purity 99%			+/- 60.7722	µg/mL	Stressed
6	1,2,3-Trimethylbenzene		1,004.6 µg/mL	+/- 5.9673	µg/mL	Gravimetric
	CAS # 526-73-8.SEC	(Lot 7110200)		+/- 60.6267	µg/mL	Unstressed
	Purity 92%			+/- 60.7706	µg/mL	Stressed
7	1,3-Diethylbenzene		1,006.0 µg/mL	+/- 5.9753	µg/mL	Gravimetric
	CAS # 141-93-5.SEC	(Lot 113566-1)		+/- 60.7087	µg/mL	Unstressed
	Purity 99%			+/- 60.8528	µg/mL	Stressed

8	1,4-Diethylbenzene		1,006.1 µg/mL	+/-	5.9761	µg/mL	Gravimetric
	CAS # 105-05-5.SEC	(Lot FBQ02)		+/-	60.7168	µg/mL	Unstressed
	Purity 98%			+/-	60.8609	µg/mL	Stressed
9	1,2-Diethylbenzene		1,008.7 µg/mL	+/-	5.9912	µg/mL	Gravimetric
	CAS # 135-01-3.SEC	(Lot BCBF3667V)		+/-	60.8697	µg/mL	Unstressed
	Purity 99%			+/-	61.0141	µg/mL	Stressed
10	2-Methylnaphthalene		1,006.0 µg/mL	+/-	5.9753	µg/mL	Gravimetric
	CAS # 91-57-6.SEC	(Lot 76023-1)		+/-	60.7087	µg/mL	Unstressed
	Purity 99%			+/-	60.8528	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)

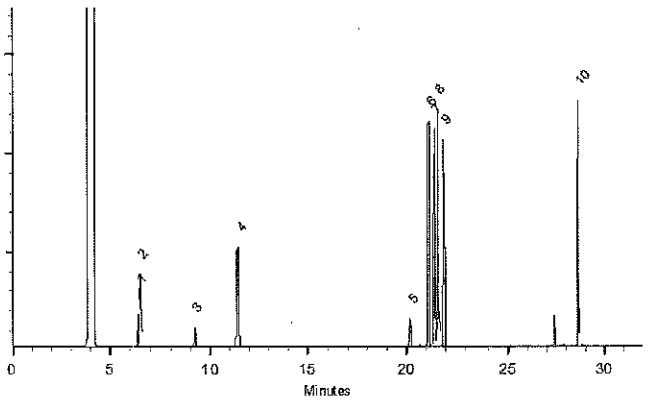
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Dalton Stover - Operations Technician I

Date Mixed: 17-Mar-2020 **Balance:** 1128342314

Feng-Yun Lo - QC Analyst

Date Passed: 20-Mar-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
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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_V#1B_00126

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ISO 17034 Accredited
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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. : 569936-1 **Lot No.:** A0158586

Description : Custom Revised V #1B Standard

Custom Revised V #1B Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-dichloroethene **CAS #** 75-35-4 (Lot SHBK2437) **Purity** 99%	5,011.4 µg/mL	+/- 31.9644 µg/mL +/- 281.2901 µg/mL +/- 287.8577 µg/mL	Gravimetric Unstressed Stressed
2	Methylene chloride (dichloromethane) **CAS #** 75-09-2 (Lot SHBL3107) **Purity** 99%	5,004.6 µg/mL	+/- 31.9213 µg/mL +/- 280.9112 µg/mL +/- 287.4700 µg/mL	Gravimetric Unstressed Stressed
3	trans-1,2-Dichloroethene **CAS #** 156-60-5 (Lot MKBH9850V) **Purity** 99%	5,017.5 µg/mL	+/- 32.0035 µg/mL +/- 281.6339 µg/mL +/- 288.2096 µg/mL	Gravimetric Unstressed Stressed
4	1,1-Dichloroethane **CAS #** 75-34-3 (Lot 580900) **Purity** 99%	5,020.4 µg/mL	+/- 32.0218 µg/mL +/- 281.7953 µg/mL +/- 288.3747 µg/mL	Gravimetric Unstressed Stressed
5	2,2-Dichloropropane **CAS #** 594-20-7 (Lot BCBT5124) **Purity** 99%	5,050.0 µg/mL	+/- 32.0202 µg/mL +/- 283.4366 µg/mL +/- 290.0553 µg/mL	Gravimetric Unstressed Stressed
6	cis-1,2-Dichloroethene **CAS #** 156-59-2 (Lot MKBX5945V) **Purity** 99%	5,046.5 µg/mL	+/- 31.9980 µg/mL +/- 283.2401 µg/mL +/- 289.8543 µg/mL	Gravimetric Unstressed Stressed
7	chloroform **CAS #** 67-66-3 (Lot SHBJ9076) **Purity** 99%	5,034.3 µg/mL	+/- 32.1103 µg/mL +/- 282.5741 µg/mL +/- 289.1717 µg/mL	Gravimetric Unstressed Stressed

8	1,1,1-trichloroethane		5,001.3	µg/mL	+/-	31.9002	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	280.7250	µg/mL	Unstressed
	Purity 98%				+/-	287.2795	µg/mL	Stressed
9	1,1-Dichloropropene		5,048.9	µg/mL	+/-	32.0131	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 170301JLM)			+/-	283.3734	µg/mL	Unstressed
	Purity 99%				+/-	289.9907	µg/mL	Stressed
10	carbon tetrachloride		5,022.9	µg/mL	+/-	32.0378	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBG8938V)			+/-	281.9356	µg/mL	Unstressed
	Purity 99%				+/-	288.5183	µg/mL	Stressed
11	1,2-Dichloroethane		5,007.9	µg/mL	+/-	31.9421	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot MKCH9948)			+/-	281.0937	µg/mL	Unstressed
	Purity 99%				+/-	287.6567	µg/mL	Stressed
12	Benzene		5,042.9	µg/mL	+/-	31.9750	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBG7317V)			+/-	283.0367	µg/mL	Unstressed
	Purity 99%				+/-	289.6461	µg/mL	Stressed
13	Trichloroethene		5,012.9	µg/mL	+/-	31.9740	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBJ4611)			+/-	281.3743	µg/mL	Unstressed
	Purity 99%				+/-	287.9439	µg/mL	Stressed
14	1,2-Dichloropropane		5,012.6	µg/mL	+/-	31.9724	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	281.3603	µg/mL	Unstressed
	Purity 99%				+/-	287.9295	µg/mL	Stressed
15	bromodichloromethane		5,039.1	µg/mL	+/-	32.1414	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCJ0238)			+/-	282.8477	µg/mL	Unstressed
	Purity 99%				+/-	289.4517	µg/mL	Stressed
16	Dibromomethane		5,047.3	µg/mL	+/-	32.0027	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10201030)			+/-	283.2822	µg/mL	Unstressed
	Purity 99%				+/-	289.8973	µg/mL	Stressed
17	cis-1,3-Dichloropropene		5,015.1	µg/mL	+/-	31.9883	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot 200107JLM)			+/-	281.5006	µg/mL	Unstressed
	Purity 99%				+/-	288.0731	µg/mL	Stressed
18	Toluene		5,031.9	µg/mL	+/-	31.9053	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot SHBH9895)			+/-	282.4193	µg/mL	Unstressed
	Purity 99%				+/-	289.0143	µg/mL	Stressed
19	trans-1,3-Dichloropropene		5,003.8	µg/mL	+/-	31.9158	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot 19420164-D1219)			+/-	280.8621	µg/mL	Unstressed
	Purity 99%				+/-	287.4198	µg/mL	Stressed
20	1,1,2-Trichloroethane		5,015.4	µg/mL	+/-	31.9899	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	281.5146	µg/mL	Unstressed
	Purity 99%				+/-	288.0875	µg/mL	Stressed
21	1,3-Dichloropropane		5,042.4	µg/mL	+/-	31.9718	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBG2162V)			+/-	283.0086	µg/mL	Unstressed
	Purity 99%				+/-	289.6173	µg/mL	Stressed
22	Tetrachloroethene		5,014.3	µg/mL	+/-	31.9827	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBJ7422)			+/-	281.4515	µg/mL	Unstressed
	Purity 99%				+/-	288.0229	µg/mL	Stressed
23	dibromochloromethane		5,016.1	µg/mL	+/-	31.9947	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCK6472)			+/-	281.5567	µg/mL	Unstressed
	Purity 99%				+/-	288.1306	µg/mL	Stressed

24	1,2-Dibromoethane (EDB) **CAS #** 106-93-4 **Purity** 99%	(Lot BCBP2268V)	5,037.4	µg/mL	+/- 31.9401 +/- 282.7280 +/- 289.3302	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	1-Chlorohexane **CAS #** 544-10-5 **Purity** 98%	(Lot BCBS3368V)	5,010.7	µg/mL	+/- 29.3390 +/- 280.9687 +/- 287.5420	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Chlorobenzene **CAS #** 108-90-7 **Purity** 99%	(Lot SHBJ0839)	5,009.0	µg/mL	+/- 31.9493 +/- 281.1568 +/- 287.7213	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6 **Purity** 99%	(Lot MKBS3769V)	5,038.6	µg/mL	+/- 31.9481 +/- 282.7981 +/- 289.4020	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Ethylbenzene **CAS #** 100-41-4 **Purity** 99%	(Lot SHBJ3183)	5,029.3	µg/mL	+/- 31.8886 +/- 282.2719 +/- 288.8635	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	m-Xylene **CAS #** 108-38-3 **Purity** 99%	(Lot SHBH8323)	5,038.4	µg/mL	+/- 31.9465 +/- 282.7841 +/- 289.3876	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	p-Xylene **CAS #** 106-42-3 **Purity** 99%	(Lot SHBJ0052)	5,038.0	µg/mL	+/- 31.9441 +/- 282.7630 +/- 289.3661	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	o-Xylene **CAS #** 95-47-6 **Purity** 99%	(Lot SHBH3432V)	5,046.4	µg/mL	+/- 31.9972 +/- 283.2331 +/- 289.8471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Styrene **CAS #** 100-42-5 **Purity** 99%	(Lot MKBV4061V)	5,047.0	µg/mL	+/- 32.0012 +/- 283.2682 +/- 289.8830	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	Isopropylbenzene (cumene) **CAS #** 98-82-8 **Purity** 99%	(Lot 10185056)	5,035.3	µg/mL	+/- 31.9267 +/- 282.6087 +/- 289.2081	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	bromoform **CAS #** 75-25-2 **Purity** 99%	(Lot SHBJ4835)	5,013.0	µg/mL	+/- 31.9748 +/- 281.3813 +/- 287.9511	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5 **Purity** 99%	(Lot CFA4D)	5,016.0	µg/mL	+/- 31.9939 +/- 281.5497 +/- 288.1234	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	1,2,3-Trichloropropane **CAS #** 96-18-4 **Purity** 99%	(Lot BCBH8722V)	5,033.4	µg/mL	+/- 31.9148 +/- 282.5035 +/- 289.1004	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	n-Propylbenzene **CAS #** 103-65-1 **Purity** 99%	(Lot MKBJ0332V)	5,032.4	µg/mL	+/- 31.9084 +/- 282.4473 +/- 289.0430	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot WXBC5147V)	5,035.5	µg/mL	+/- 31.9282 +/- 282.6227 +/- 289.2225	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBS7648V)	5,029.8	µg/mL	+/- 31.8918 +/- 282.3000 +/- 288.8922	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBW5554V)	5,037.5	µg/mL	+/- 31.9409 +/- 282.7350 +/- 289.3373	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBL7753V)	5,039.1	µg/mL	+/- 31.9512 +/- 282.8262 +/- 289.4307	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot STBD6954V)	5,049.8	µg/mL	+/- 32.0186 +/- 283.4225 +/- 290.0409	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 98%	(Lot MKBJ6229V)	5,046.8	µg/mL	+/- 31.9996 +/- 283.2544 +/- 289.8689	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBR9260V)	5,042.8	µg/mL	+/- 31.9742 +/- 283.0296 +/- 289.6389	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBV3556V)	5,038.4	µg/mL	+/- 31.9465 +/- 282.7841 +/- 289.3876	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBQ7100V)	5,017.6	µg/mL	+/- 32.0043 +/- 281.6409 +/- 288.2167	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS4401V)	5,023.8	µg/mL	+/- 32.0433 +/- 281.9847 +/- 288.5686	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09804AE)	5,024.8	µg/mL	+/- 31.8601 +/- 282.0194 +/- 288.6050	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBG3111V)	5,024.5	µg/mL	+/- 32.0481 +/- 282.0268 +/- 288.6117	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	5,036.4	µg/mL	+/- 31.9338 +/- 282.6718 +/- 289.2727	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	1,3,5-Trichlorobenzene **CAS #** 108-70-3 **Purity** 99%	(Lot 11319AS)	5,034.0	µg/mL	+/- 29.4752 +/- 282.2729 +/- 288.8768	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBJ0905)	5,036.5	µg/mL	+/- 31.9346 +/- 282.6789 +/- 289.2799	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 99%	(Lot J31X013)	5,033.6	µg/mL	+/- 31.9164 +/- 282.5175 +/- 289.1148	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBW2603V)	5,033.6	µg/mL	+/- 31.9164 +/- 282.5175 +/- 289.1148	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	1,2,3-Trichlorobenzene **CAS #** 87-61-6 **Purity** 99%	(Lot MKBS4859V)	5,016.0	µg/mL	+/- 31.8046 +/- 281.5283 +/- 288.1024	µg/mL µg/mL 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)

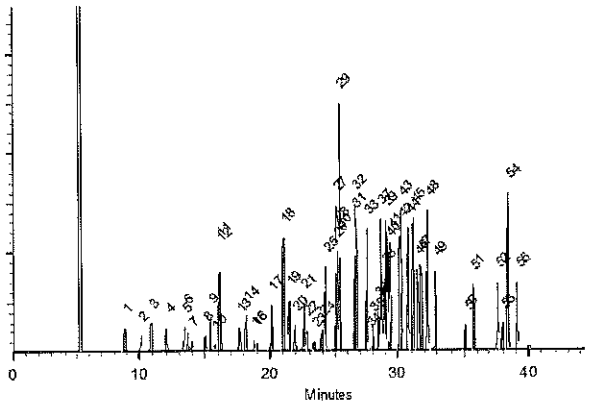
Carrier Gas:
hydrogen-constant pressure 8.0 psi.

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 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.

Cydnei L. Crust - Mix Technician

Date Mixed: 09-Mar-2020 **Balance:** B251644995

Feng-Yun Lo - QC Analyst

Date Passed: 11-Mar-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_V#1B_00127

RESTEK®
110 Benner Circle
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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. : 569936-1 **Lot No.:** A0158586

Description : Custom Revised V #1B Standard

Custom Revised V #1B Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-dichloroethene **CAS #** 75-35-4 (Lot SHBK2437) **Purity** 99%	5,011.4 µg/mL	+/- 31.9644 µg/mL +/- 281.2901 µg/mL +/- 287.8577 µg/mL	Gravimetric Unstressed Stressed
2	Methylene chloride (dichloromethane) **CAS #** 75-09-2 (Lot SHBL3107) **Purity** 99%	5,004.6 µg/mL	+/- 31.9213 µg/mL +/- 280.9112 µg/mL +/- 287.4700 µg/mL	Gravimetric Unstressed Stressed
3	trans-1,2-Dichloroethene **CAS #** 156-60-5 (Lot MKBH9850V) **Purity** 99%	5,017.5 µg/mL	+/- 32.0035 µg/mL +/- 281.6339 µg/mL +/- 288.2096 µg/mL	Gravimetric Unstressed Stressed
4	1,1-Dichloroethane **CAS #** 75-34-3 (Lot 580900) **Purity** 99%	5,020.4 µg/mL	+/- 32.0218 µg/mL +/- 281.7953 µg/mL +/- 288.3747 µg/mL	Gravimetric Unstressed Stressed
5	2,2-Dichloropropane **CAS #** 594-20-7 (Lot BCBT5124) **Purity** 99%	5,050.0 µg/mL	+/- 32.0202 µg/mL +/- 283.4366 µg/mL +/- 290.0553 µg/mL	Gravimetric Unstressed Stressed
6	cis-1,2-Dichloroethene **CAS #** 156-59-2 (Lot MKBX5945V) **Purity** 99%	5,046.5 µg/mL	+/- 31.9980 µg/mL +/- 283.2401 µg/mL +/- 289.8543 µg/mL	Gravimetric Unstressed Stressed
7	chloroform **CAS #** 67-66-3 (Lot SHBJ9076) **Purity** 99%	5,034.3 µg/mL	+/- 32.1103 µg/mL +/- 282.5741 µg/mL +/- 289.1717 µg/mL	Gravimetric Unstressed Stressed

8	1,1,1-trichloroethane		5,001.3	µg/mL	+/-	31.9002	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	280.7250	µg/mL	Unstressed
	Purity 98%				+/-	287.2795	µg/mL	Stressed
9	1,1-Dichloropropene		5,048.9	µg/mL	+/-	32.0131	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 170301JLM)			+/-	283.3734	µg/mL	Unstressed
	Purity 99%				+/-	289.9907	µg/mL	Stressed
10	carbon tetrachloride		5,022.9	µg/mL	+/-	32.0378	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBG8938V)			+/-	281.9356	µg/mL	Unstressed
	Purity 99%				+/-	288.5183	µg/mL	Stressed
11	1,2-Dichloroethane		5,007.9	µg/mL	+/-	31.9421	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot MKCH9948)			+/-	281.0937	µg/mL	Unstressed
	Purity 99%				+/-	287.6567	µg/mL	Stressed
12	Benzene		5,042.9	µg/mL	+/-	31.9750	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBG7317V)			+/-	283.0367	µg/mL	Unstressed
	Purity 99%				+/-	289.6461	µg/mL	Stressed
13	Trichloroethene		5,012.9	µg/mL	+/-	31.9740	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBJ4611)			+/-	281.3743	µg/mL	Unstressed
	Purity 99%				+/-	287.9439	µg/mL	Stressed
14	1,2-Dichloropropane		5,012.6	µg/mL	+/-	31.9724	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	281.3603	µg/mL	Unstressed
	Purity 99%				+/-	287.9295	µg/mL	Stressed
15	bromodichloromethane		5,039.1	µg/mL	+/-	32.1414	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCJ0238)			+/-	282.8477	µg/mL	Unstressed
	Purity 99%				+/-	289.4517	µg/mL	Stressed
16	Dibromomethane		5,047.3	µg/mL	+/-	32.0027	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10201030)			+/-	283.2822	µg/mL	Unstressed
	Purity 99%				+/-	289.8973	µg/mL	Stressed
17	cis-1,3-Dichloropropene		5,015.1	µg/mL	+/-	31.9883	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot 200107JLM)			+/-	281.5006	µg/mL	Unstressed
	Purity 99%				+/-	288.0731	µg/mL	Stressed
18	Toluene		5,031.9	µg/mL	+/-	31.9053	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot SHBH9895)			+/-	282.4193	µg/mL	Unstressed
	Purity 99%				+/-	289.0143	µg/mL	Stressed
19	trans-1,3-Dichloropropene		5,003.8	µg/mL	+/-	31.9158	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot 19420164-D1219)			+/-	280.8621	µg/mL	Unstressed
	Purity 99%				+/-	287.4198	µg/mL	Stressed
20	1,1,2-Trichloroethane		5,015.4	µg/mL	+/-	31.9899	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	281.5146	µg/mL	Unstressed
	Purity 99%				+/-	288.0875	µg/mL	Stressed
21	1,3-Dichloropropane		5,042.4	µg/mL	+/-	31.9718	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBG2162V)			+/-	283.0086	µg/mL	Unstressed
	Purity 99%				+/-	289.6173	µg/mL	Stressed
22	Tetrachloroethene		5,014.3	µg/mL	+/-	31.9827	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBJ7422)			+/-	281.4515	µg/mL	Unstressed
	Purity 99%				+/-	288.0229	µg/mL	Stressed
23	dibromochloromethane		5,016.1	µg/mL	+/-	31.9947	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCK6472)			+/-	281.5567	µg/mL	Unstressed
	Purity 99%				+/-	288.1306	µg/mL	Stressed

24	1,2-Dibromoethane (EDB) **CAS #** 106-93-4 **Purity** 99%	(Lot BCBP2268V)	5,037.4	µg/mL	+/- 31.9401 +/- 282.7280 +/- 289.3302	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	1-Chlorohexane **CAS #** 544-10-5 **Purity** 98%	(Lot BCBS3368V)	5,010.7	µg/mL	+/- 29.3390 +/- 280.9687 +/- 287.5420	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Chlorobenzene **CAS #** 108-90-7 **Purity** 99%	(Lot SHBJ0839)	5,009.0	µg/mL	+/- 31.9493 +/- 281.1568 +/- 287.7213	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6 **Purity** 99%	(Lot MKBS3769V)	5,038.6	µg/mL	+/- 31.9481 +/- 282.7981 +/- 289.4020	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Ethylbenzene **CAS #** 100-41-4 **Purity** 99%	(Lot SHBJ3183)	5,029.3	µg/mL	+/- 31.8886 +/- 282.2719 +/- 288.8635	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	m-Xylene **CAS #** 108-38-3 **Purity** 99%	(Lot SHBH8323)	5,038.4	µg/mL	+/- 31.9465 +/- 282.7841 +/- 289.3876	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	p-Xylene **CAS #** 106-42-3 **Purity** 99%	(Lot SHBJ0052)	5,038.0	µg/mL	+/- 31.9441 +/- 282.7630 +/- 289.3661	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	o-Xylene **CAS #** 95-47-6 **Purity** 99%	(Lot SHBH3432V)	5,046.4	µg/mL	+/- 31.9972 +/- 283.2331 +/- 289.8471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Styrene **CAS #** 100-42-5 **Purity** 99%	(Lot MKBV4061V)	5,047.0	µg/mL	+/- 32.0012 +/- 283.2682 +/- 289.8830	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	Isopropylbenzene (cumene) **CAS #** 98-82-8 **Purity** 99%	(Lot 10185056)	5,035.3	µg/mL	+/- 31.9267 +/- 282.6087 +/- 289.2081	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	bromoform **CAS #** 75-25-2 **Purity** 99%	(Lot SHBJ4835)	5,013.0	µg/mL	+/- 31.9748 +/- 281.3813 +/- 287.9511	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5 **Purity** 99%	(Lot CFA4D)	5,016.0	µg/mL	+/- 31.9939 +/- 281.5497 +/- 288.1234	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	1,2,3-Trichloropropane **CAS #** 96-18-4 **Purity** 99%	(Lot BCBH8722V)	5,033.4	µg/mL	+/- 31.9148 +/- 282.5035 +/- 289.1004	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	n-Propylbenzene **CAS #** 103-65-1 **Purity** 99%	(Lot MKBJ0332V)	5,032.4	µg/mL	+/- 31.9084 +/- 282.4473 +/- 289.0430	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot WXBC5147V)	5,035.5	µg/mL	+/- 31.9282 +/- 282.6227 +/- 289.2225	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBS7648V)	5,029.8	µg/mL	+/- 31.8918 +/- 282.3000 +/- 288.8922	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBW5554V)	5,037.5	µg/mL	+/- 31.9409 +/- 282.7350 +/- 289.3373	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBL7753V)	5,039.1	µg/mL	+/- 31.9512 +/- 282.8262 +/- 289.4307	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot STBD6954V)	5,049.8	µg/mL	+/- 32.0186 +/- 283.4225 +/- 290.0409	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 98%	(Lot MKBJ6229V)	5,046.8	µg/mL	+/- 31.9996 +/- 283.2544 +/- 289.8689	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBR9260V)	5,042.8	µg/mL	+/- 31.9742 +/- 283.0296 +/- 289.6389	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBV3556V)	5,038.4	µg/mL	+/- 31.9465 +/- 282.7841 +/- 289.3876	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBQ7100V)	5,017.6	µg/mL	+/- 32.0043 +/- 281.6409 +/- 288.2167	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS4401V)	5,023.8	µg/mL	+/- 32.0433 +/- 281.9847 +/- 288.5686	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09804AE)	5,024.8	µg/mL	+/- 31.8601 +/- 282.0194 +/- 288.6050	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBG3111V)	5,024.5	µg/mL	+/- 32.0481 +/- 282.0268 +/- 288.6117	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	5,036.4	µg/mL	+/- 31.9338 +/- 282.6718 +/- 289.2727	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	1,3,5-Trichlorobenzene **CAS #** 108-70-3 **Purity** 99%	(Lot 11319AS)	5,034.0	µg/mL	+/- 29.4752 +/- 282.2729 +/- 288.8768	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBJ0905)	5,036.5	µg/mL	+/- 31.9346 +/- 282.6789 +/- 289.2799	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 99%	(Lot J31X013)	5,033.6	µg/mL	+/- 31.9164 +/- 282.5175 +/- 289.1148	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBW2603V)	5,033.6	µg/mL	+/- 31.9164 +/- 282.5175 +/- 289.1148	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	1,2,3-Trichlorobenzene **CAS #** 87-61-6 **Purity** 99%	(Lot MKBS4859V)	5,016.0	µg/mL	+/- 31.8046 +/- 281.5283 +/- 288.1024	µg/mL µg/mL 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)

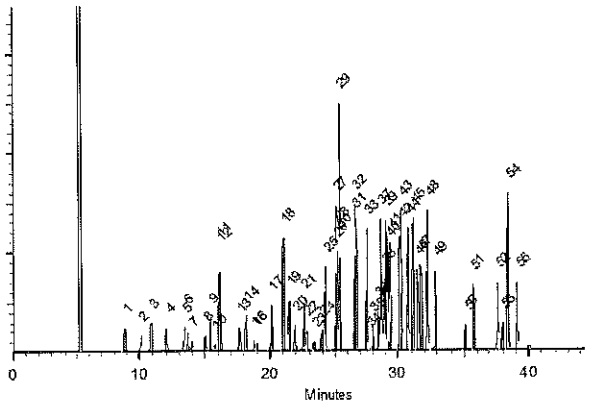
Carrier Gas:
hydrogen-constant pressure 8.0 psi.

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 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.

Cydnei L. Crust - Mix Technician

Date Mixed: 09-Mar-2020 **Balance:** B251644995

Feng-Yun Lo - QC Analyst

Date Passed: 11-Mar-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_V#1B_00144

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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. : 569936-1 **Lot No.:** A0158586

Description : Custom Revised V #1B Standard

Custom Revised V #1B Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-dichloroethene **CAS #** 75-35-4 (Lot SHBK2437) **Purity** 99%	5,011.4 µg/mL	+/- 31.9644 µg/mL +/- 281.2901 µg/mL +/- 287.8577 µg/mL	Gravimetric Unstressed Stressed
2	Methylene chloride (dichloromethane) **CAS #** 75-09-2 (Lot SHBL3107) **Purity** 99%	5,004.6 µg/mL	+/- 31.9213 µg/mL +/- 280.9112 µg/mL +/- 287.4700 µg/mL	Gravimetric Unstressed Stressed
3	trans-1,2-Dichloroethene **CAS #** 156-60-5 (Lot MKBH9850V) **Purity** 99%	5,017.5 µg/mL	+/- 32.0035 µg/mL +/- 281.6339 µg/mL +/- 288.2096 µg/mL	Gravimetric Unstressed Stressed
4	1,1-Dichloroethane **CAS #** 75-34-3 (Lot 580900) **Purity** 99%	5,020.4 µg/mL	+/- 32.0218 µg/mL +/- 281.7953 µg/mL +/- 288.3747 µg/mL	Gravimetric Unstressed Stressed
5	2,2-Dichloropropane **CAS #** 594-20-7 (Lot BCBT5124) **Purity** 99%	5,050.0 µg/mL	+/- 32.0202 µg/mL +/- 283.4366 µg/mL +/- 290.0553 µg/mL	Gravimetric Unstressed Stressed
6	cis-1,2-Dichloroethene **CAS #** 156-59-2 (Lot MKBX5945V) **Purity** 99%	5,046.5 µg/mL	+/- 31.9980 µg/mL +/- 283.2401 µg/mL +/- 289.8543 µg/mL	Gravimetric Unstressed Stressed
7	chloroform **CAS #** 67-66-3 (Lot SHBJ9076) **Purity** 99%	5,034.3 µg/mL	+/- 32.1103 µg/mL +/- 282.5741 µg/mL +/- 289.1717 µg/mL	Gravimetric Unstressed Stressed

8	1,1,1-trichloroethane		5,001.3	µg/mL	+/-	31.9002	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	280.7250	µg/mL	Unstressed
	Purity 98%				+/-	287.2795	µg/mL	Stressed
9	1,1-Dichloropropene		5,048.9	µg/mL	+/-	32.0131	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 170301JLM)			+/-	283.3734	µg/mL	Unstressed
	Purity 99%				+/-	289.9907	µg/mL	Stressed
10	carbon tetrachloride		5,022.9	µg/mL	+/-	32.0378	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBG8938V)			+/-	281.9356	µg/mL	Unstressed
	Purity 99%				+/-	288.5183	µg/mL	Stressed
11	1,2-Dichloroethane		5,007.9	µg/mL	+/-	31.9421	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot MKCH9948)			+/-	281.0937	µg/mL	Unstressed
	Purity 99%				+/-	287.6567	µg/mL	Stressed
12	Benzene		5,042.9	µg/mL	+/-	31.9750	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBG7317V)			+/-	283.0367	µg/mL	Unstressed
	Purity 99%				+/-	289.6461	µg/mL	Stressed
13	Trichloroethene		5,012.9	µg/mL	+/-	31.9740	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBJ4611)			+/-	281.3743	µg/mL	Unstressed
	Purity 99%				+/-	287.9439	µg/mL	Stressed
14	1,2-Dichloropropane		5,012.6	µg/mL	+/-	31.9724	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	281.3603	µg/mL	Unstressed
	Purity 99%				+/-	287.9295	µg/mL	Stressed
15	bromodichloromethane		5,039.1	µg/mL	+/-	32.1414	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCJ0238)			+/-	282.8477	µg/mL	Unstressed
	Purity 99%				+/-	289.4517	µg/mL	Stressed
16	Dibromomethane		5,047.3	µg/mL	+/-	32.0027	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10201030)			+/-	283.2822	µg/mL	Unstressed
	Purity 99%				+/-	289.8973	µg/mL	Stressed
17	cis-1,3-Dichloropropene		5,015.1	µg/mL	+/-	31.9883	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot 200107JLM)			+/-	281.5006	µg/mL	Unstressed
	Purity 99%				+/-	288.0731	µg/mL	Stressed
18	Toluene		5,031.9	µg/mL	+/-	31.9053	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot SHBH9895)			+/-	282.4193	µg/mL	Unstressed
	Purity 99%				+/-	289.0143	µg/mL	Stressed
19	trans-1,3-Dichloropropene		5,003.8	µg/mL	+/-	31.9158	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot 19420164-D1219)			+/-	280.8621	µg/mL	Unstressed
	Purity 99%				+/-	287.4198	µg/mL	Stressed
20	1,1,2-Trichloroethane		5,015.4	µg/mL	+/-	31.9899	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	281.5146	µg/mL	Unstressed
	Purity 99%				+/-	288.0875	µg/mL	Stressed
21	1,3-Dichloropropane		5,042.4	µg/mL	+/-	31.9718	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBG2162V)			+/-	283.0086	µg/mL	Unstressed
	Purity 99%				+/-	289.6173	µg/mL	Stressed
22	Tetrachloroethene		5,014.3	µg/mL	+/-	31.9827	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBJ7422)			+/-	281.4515	µg/mL	Unstressed
	Purity 99%				+/-	288.0229	µg/mL	Stressed
23	dibromochloromethane		5,016.1	µg/mL	+/-	31.9947	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCK6472)			+/-	281.5567	µg/mL	Unstressed
	Purity 99%				+/-	288.1306	µg/mL	Stressed

24	1,2-Dibromoethane (EDB) **CAS #** 106-93-4 **Purity** 99%	(Lot BCBP2268V)	5,037.4	µg/mL	+/- 31.9401 +/- 282.7280 +/- 289.3302	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	1-Chlorohexane **CAS #** 544-10-5 **Purity** 98%	(Lot BCBS3368V)	5,010.7	µg/mL	+/- 29.3390 +/- 280.9687 +/- 287.5420	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Chlorobenzene **CAS #** 108-90-7 **Purity** 99%	(Lot SHBJ0839)	5,009.0	µg/mL	+/- 31.9493 +/- 281.1568 +/- 287.7213	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6 **Purity** 99%	(Lot MKBS3769V)	5,038.6	µg/mL	+/- 31.9481 +/- 282.7981 +/- 289.4020	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Ethylbenzene **CAS #** 100-41-4 **Purity** 99%	(Lot SHBJ3183)	5,029.3	µg/mL	+/- 31.8886 +/- 282.2719 +/- 288.8635	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	m-Xylene **CAS #** 108-38-3 **Purity** 99%	(Lot SHBH8323)	5,038.4	µg/mL	+/- 31.9465 +/- 282.7841 +/- 289.3876	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	p-Xylene **CAS #** 106-42-3 **Purity** 99%	(Lot SHBJ0052)	5,038.0	µg/mL	+/- 31.9441 +/- 282.7630 +/- 289.3661	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	o-Xylene **CAS #** 95-47-6 **Purity** 99%	(Lot SHBH3432V)	5,046.4	µg/mL	+/- 31.9972 +/- 283.2331 +/- 289.8471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Styrene **CAS #** 100-42-5 **Purity** 99%	(Lot MKBV4061V)	5,047.0	µg/mL	+/- 32.0012 +/- 283.2682 +/- 289.8830	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	Isopropylbenzene (cumene) **CAS #** 98-82-8 **Purity** 99%	(Lot 10185056)	5,035.3	µg/mL	+/- 31.9267 +/- 282.6087 +/- 289.2081	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	bromoform **CAS #** 75-25-2 **Purity** 99%	(Lot SHBJ4835)	5,013.0	µg/mL	+/- 31.9748 +/- 281.3813 +/- 287.9511	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5 **Purity** 99%	(Lot CFA4D)	5,016.0	µg/mL	+/- 31.9939 +/- 281.5497 +/- 288.1234	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	1,2,3-Trichloropropane **CAS #** 96-18-4 **Purity** 99%	(Lot BCBH8722V)	5,033.4	µg/mL	+/- 31.9148 +/- 282.5035 +/- 289.1004	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	n-Propylbenzene **CAS #** 103-65-1 **Purity** 99%	(Lot MKBJ0332V)	5,032.4	µg/mL	+/- 31.9084 +/- 282.4473 +/- 289.0430	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot WXBC5147V)	5,035.5	µg/mL	+/- 31.9282 +/- 282.6227 +/- 289.2225	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBS7648V)	5,029.8	µg/mL	+/- 31.8918 +/- 282.3000 +/- 288.8922	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBW5554V)	5,037.5	µg/mL	+/- 31.9409 +/- 282.7350 +/- 289.3373	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBL7753V)	5,039.1	µg/mL	+/- 31.9512 +/- 282.8262 +/- 289.4307	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot STBD6954V)	5,049.8	µg/mL	+/- 32.0186 +/- 283.4225 +/- 290.0409	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 98%	(Lot MKBJ6229V)	5,046.8	µg/mL	+/- 31.9996 +/- 283.2544 +/- 289.8689	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBR9260V)	5,042.8	µg/mL	+/- 31.9742 +/- 283.0296 +/- 289.6389	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBV3556V)	5,038.4	µg/mL	+/- 31.9465 +/- 282.7841 +/- 289.3876	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBQ7100V)	5,017.6	µg/mL	+/- 32.0043 +/- 281.6409 +/- 288.2167	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS4401V)	5,023.8	µg/mL	+/- 32.0433 +/- 281.9847 +/- 288.5686	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09804AE)	5,024.8	µg/mL	+/- 31.8601 +/- 282.0194 +/- 288.6050	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBG3111V)	5,024.5	µg/mL	+/- 32.0481 +/- 282.0268 +/- 288.6117	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	5,036.4	µg/mL	+/- 31.9338 +/- 282.6718 +/- 289.2727	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	1,3,5-Trichlorobenzene **CAS #** 108-70-3 **Purity** 99%	(Lot 11319AS)	5,034.0	µg/mL	+/- 29.4752 +/- 282.2729 +/- 288.8768	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBJ0905)	5,036.5	µg/mL	+/- 31.9346 +/- 282.6789 +/- 289.2799	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 99%	(Lot J31X013)	5,033.6	µg/mL	+/- 31.9164 +/- 282.5175 +/- 289.1148	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBW2603V)	5,033.6	µg/mL	+/- 31.9164 +/- 282.5175 +/- 289.1148	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	1,2,3-Trichlorobenzene **CAS #** 87-61-6 **Purity** 99%	(Lot MKBS4859V)	5,016.0	µg/mL	+/- 31.8046 +/- 281.5283 +/- 288.1024	µg/mL µg/mL 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)

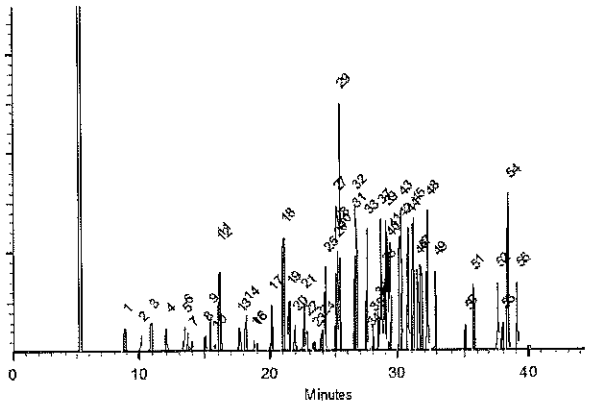
Carrier Gas:
hydrogen-constant pressure 8.0 psi.

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 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.

Cydnei L. Crust - Mix Technician

Date Mixed: 09-Mar-2020 **Balance:** B251644995

Feng-Yun Lo - QC Analyst

Date Passed: 11-Mar-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_V#2B_00161

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.:** A0159694

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, 2022 **Storage:** 0°C or colder

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%	25,019.2 µg/mL	+/- 146.4929 µg/mL
2	tert-Butanol (TBA)	75-65-0	99%	25,022.4 µg/mL	+/- 146.5117 µg/mL
3	Propionitrile	107-12-0	99%	25,020.0 µg/mL	+/- 146.4976 µg/mL
4	Methacrylonitrile	126-98-7	99%	12,533.6 µg/mL	+/- 73.3870 µg/mL
5	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	62,702.0 µg/mL	+/- 367.1151 µg/mL
6	1-Butanol	71-36-3	99%	125,150.0 µg/mL	+/- 732.7430 µg/mL
7	1,4-Dioxane	123-91-1	99%	62,550.0 µg/mL	+/- 366.2251 µg/mL
8	trans-1,4-dichloro-2-butene	110-57-6	95%	12,549.5 µg/mL	+/- 73.4801 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)

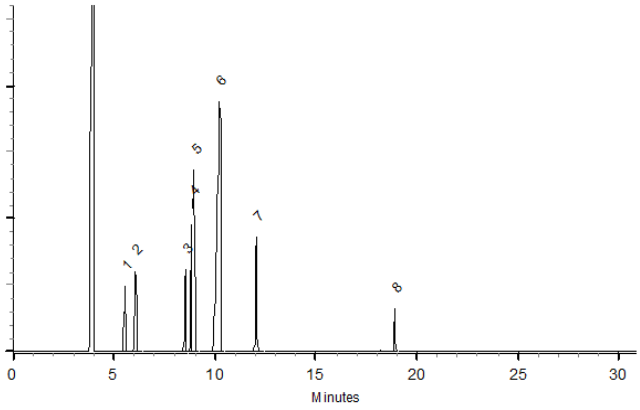
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Clara Windle - Operations Technician I

Date Mixed: 07-Apr-2020 **Balance:** B251644995

Fang-Yun Lo - QC Analyst

Date Passed: 10-Apr-2020

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#3B_00069

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

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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. : 56736 **Lot No.:** A0158677

Description : Custom V # 3B Standard

Custom V #3B Standard 12,500-25,000µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

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

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone		25,001.0 µg/mL	+/- 146.3864 µg/mL	Gravimetric
	CAS # 67-64-1	(Lot MKCK2598)		+/- 1,236.8670 µg/mL	Unstressed
	Purity 99%			+/- 1,267.6168 µg/mL	Stressed
2	Acrylonitrile		12,511.0 µg/mL	+/- 73.2547 µg/mL	Gravimetric
	CAS # 107-13-1	(Lot A0387097)		+/- 618.9529 µg/mL	Unstressed
	Purity 99%			+/- 634.3408 µg/mL	Stressed
3	2-Butanone (MEK)		25,007.0 µg/mL	+/- 146.4215 µg/mL	Gravimetric
	CAS # 78-93-3	(Lot SHBK9603)		+/- 1,237.1638 µg/mL	Unstressed
	Purity 99%			+/- 1,267.9210 µg/mL	Stressed
4	Tetrahydrofuran		25,049.0 µg/mL	+/- 146.6674 µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBK8926)		+/- 1,239.2417 µg/mL	Unstressed
	Purity 99%			+/- 1,270.0505 µg/mL	Stressed
5	2-Nitropropane		24,758.3 µg/mL	+/- 144.9652 µg/mL	Gravimetric
	CAS # 79-46-9	(Lot BCCB9352)		+/- 1,224.8589 µg/mL	Unstressed
	Purity 97%			+/- 1,255.3102 µg/mL	Stressed
6	4-Methyl-2-pentanone (MIBK)		25,014.0 µg/mL	+/- 146.4625 µg/mL	Gravimetric
	CAS # 108-10-1	(Lot SHBL5515)		+/- 1,237.5101 µg/mL	Unstressed
	Purity 99%			+/- 1,268.2759 µg/mL	Stressed
7	2-Hexanone		25,016.0 µg/mL	+/- 146.4742 µg/mL	Gravimetric
	CAS # 591-78-6	(Lot MKCL1599)		+/- 1,237.6091 µg/mL	Unstressed
	Purity 99%			+/- 1,268.3773 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)

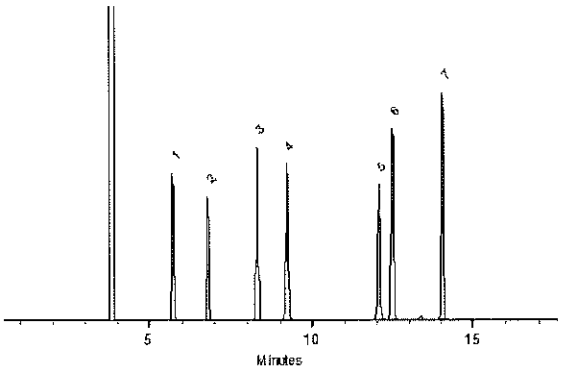
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Kylie Struble - Operations Technician I

Date Mixed: 10-Mar-2020 **Balance:** B251644995

Feng-Yun Lo - QC Analyst

Date Passed: 12-Mar-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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CERTIFIED REFERENCE MATERIAL

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. : 56736 **Lot No.:** A0158677

Description : Custom V # 3B Standard

Custom V #3B Standard 12,500-25,000µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

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

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	25,001.0 µg/mL	+/- 146.3864 µg/mL	Gravimetric
	CAS # 67-64-1 (Lot MKCK2598)		+/- 1,236.8670 µg/mL	Unstressed
	Purity 99%		+/- 1,267.6168 µg/mL	Stressed
2	Acrylonitrile	12,511.0 µg/mL	+/- 73.2547 µg/mL	Gravimetric
	CAS # 107-13-1 (Lot A0387097)		+/- 618.9529 µg/mL	Unstressed
	Purity 99%		+/- 634.3408 µg/mL	Stressed
3	2-Butanone (MEK)	25,007.0 µg/mL	+/- 146.4215 µg/mL	Gravimetric
	CAS # 78-93-3 (Lot SHBK9603)		+/- 1,237.1638 µg/mL	Unstressed
	Purity 99%		+/- 1,267.9210 µg/mL	Stressed
4	Tetrahydrofuran	25,049.0 µg/mL	+/- 146.6674 µg/mL	Gravimetric
	CAS # 109-99-9 (Lot SHBK8926)		+/- 1,239.2417 µg/mL	Unstressed
	Purity 99%		+/- 1,270.0505 µg/mL	Stressed
5	2-Nitropropane	24,758.3 µg/mL	+/- 144.9652 µg/mL	Gravimetric
	CAS # 79-46-9 (Lot BCCB9352)		+/- 1,224.8589 µg/mL	Unstressed
	Purity 97%		+/- 1,255.3102 µg/mL	Stressed
6	4-Methyl-2-pentanone (MIBK)	25,014.0 µg/mL	+/- 146.4625 µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBL5515)		+/- 1,237.5101 µg/mL	Unstressed
	Purity 99%		+/- 1,268.2759 µg/mL	Stressed
7	2-Hexanone	25,016.0 µg/mL	+/- 146.4742 µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKCL1599)		+/- 1,237.6091 µg/mL	Unstressed
	Purity 99%		+/- 1,268.3773 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)

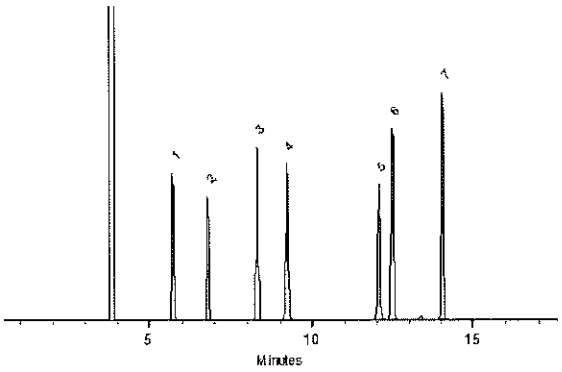
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Kylie Struble - Operations Technician I

Date Mixed: 10-Mar-2020 **Balance:** B251644995

Feng-Yen Lo - QC Analyst

Date Passed: 12-Mar-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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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. : 56736 **Lot No.:** A0158677

Description : Custom V # 3B Standard

Custom V #3B Standard 12,500-25,000µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

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

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone		25,001.0	µg/mL	+/- 146.3864	µg/mL	Gravimetric
	CAS # 67-64-1	(Lot MKCK2598)			+/- 1,236.8670	µg/mL	Unstressed
	Purity 99%				+/- 1,267.6168	µg/mL	Stressed
2	Acrylonitrile		12,511.0	µg/mL	+/- 73.2547	µg/mL	Gravimetric
	CAS # 107-13-1	(Lot A0387097)			+/- 618.9529	µg/mL	Unstressed
	Purity 99%				+/- 634.3408	µg/mL	Stressed
3	2-Butanone (MEK)		25,007.0	µg/mL	+/- 146.4215	µg/mL	Gravimetric
	CAS # 78-93-3	(Lot SHBK9603)			+/- 1,237.1638	µg/mL	Unstressed
	Purity 99%				+/- 1,267.9210	µg/mL	Stressed
4	Tetrahydrofuran		25,049.0	µg/mL	+/- 146.6674	µg/mL	Gravimetric
	CAS # 109-99-9	(Lot SHBK8926)			+/- 1,239.2417	µg/mL	Unstressed
	Purity 99%				+/- 1,270.0505	µg/mL	Stressed
5	2-Nitropropane		24,758.3	µg/mL	+/- 144.9652	µg/mL	Gravimetric
	CAS # 79-46-9	(Lot BCCB9352)			+/- 1,224.8589	µg/mL	Unstressed
	Purity 97%				+/- 1,255.3102	µg/mL	Stressed
6	4-Methyl-2-pentanone (MIBK)		25,014.0	µg/mL	+/- 146.4625	µg/mL	Gravimetric
	CAS # 108-10-1	(Lot SHBL5515)			+/- 1,237.5101	µg/mL	Unstressed
	Purity 99%				+/- 1,268.2759	µg/mL	Stressed
7	2-Hexanone		25,016.0	µg/mL	+/- 146.4742	µg/mL	Gravimetric
	CAS # 591-78-6	(Lot MKCL1599)			+/- 1,237.6091	µg/mL	Unstressed
	Purity 99%				+/- 1,268.3773	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)

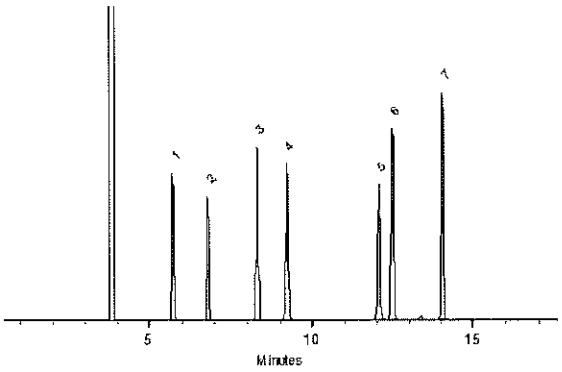
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Kylie Struble - Operations Technician I

Date Mixed: 10-Mar-2020 **Balance:** B251644995

Feng-Yen Lo - QC Analyst

Date Passed: 12-Mar-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:

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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)	< 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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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. : 572312 **Lot No.:** A0158660

Description : Custom V #4C (Rev 3) Standard

Custom V #4C (Rev 3) Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : March 31, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	1,3-Butadiene		5,002.1	µg/mL	+/- 39.8717	µg/mL	Gravimetric
	CAS # 106-99-0	(Lot SHBK2299)			+/- 303.0271	µg/mL	Unstressed
	Purity 99%				+/- 303.7407	µg/mL	Stressed
2	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		5,001.4	µg/mL	+/- 47.3932	µg/mL	Gravimetric
	CAS # 354-23-4	(Lot Q9B-64)			+/- 304.0702	µg/mL	Unstressed
	Purity 99%				+/- 304.7812	µg/mL	Stressed
3	n-Pentane (C5)		5,025.0	µg/mL	+/- 29.4225	µg/mL	Gravimetric
	CAS # 109-66-0	(Lot SHBL0400)			+/- 303.2005	µg/mL	Unstressed
	Purity 99%				+/- 303.9203	µg/mL	Stressed
4	1,1,2-Trichlorotrifluoroethane (CFC-113)		5,024.0	µg/mL	+/- 29.4166	µg/mL	Gravimetric
	CAS # 76-13-1	(Lot 00016133)			+/- 303.1402	µg/mL	Unstressed
	Purity 99%				+/- 303.8598	µg/mL	Stressed
5	Iodomethane (methyl iodide)		5,035.0	µg/mL	+/- 29.4810	µg/mL	Gravimetric
	CAS # 74-88-4	(Lot D4406-0122JM)			+/- 303.8039	µg/mL	Unstressed
	Purity 99%				+/- 304.5251	µg/mL	Stressed
6	Carbon disulfide		5,046.0	µg/mL	+/- 29.5454	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot U22D706)			+/- 304.4676	µg/mL	Unstressed
	Purity 99%				+/- 305.1904	µg/mL	Stressed
7	Methyl-tert-butyl ether (MTBE)		5,025.0	µg/mL	+/- 29.4225	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBK4806)			+/- 303.2005	µg/mL	Unstressed
	Purity 99%				+/- 303.9203	µg/mL	Stressed

8	n-Hexane (C6)		5,025.5	µg/mL	+/-	29.4254	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBL0924)			+/-	303.2307	µg/mL	Unstressed
	Purity 99%				+/-	303.9505	µg/mL	Stressed
9	Diisopropyl ether (DIPE)		5,015.0	µg/mL	+/-	29.3639	µg/mL	Gravimetric
	CAS # 108-20-3	(Lot SHBH1927V)			+/-	302.5971	µg/mL	Unstressed
	Purity 99%				+/-	303.3154	µg/mL	Stressed
10	Chloroprene (2-chloro-1,3-butadiene)		5,046.5	µg/mL	+/-	29.5484	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 191204JLM)			+/-	304.4978	µg/mL	Unstressed
	Purity 99%				+/-	305.2206	µg/mL	Stressed
11	Ethyl-tert-butyl ether (ETBE)		5,026.5	µg/mL	+/-	29.4313	µg/mL	Gravimetric
	CAS # 637-92-3	(Lot MKCJ3589)			+/-	303.2910	µg/mL	Unstressed
	Purity 99%				+/-	304.0110	µg/mL	Stressed
12	Cyclohexane		5,028.5	µg/mL	+/-	29.4430	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKCF5831)			+/-	303.4117	µg/mL	Unstressed
	Purity 99%				+/-	304.1319	µg/mL	Stressed
13	tert-Amyl methyl ether (TAME)		5,021.0	µg/mL	+/-	29.3991	µg/mL	Gravimetric
	CAS # 994-05-8	(Lot HMBG6382V)			+/-	302.9592	µg/mL	Unstressed
	Purity 99%				+/-	303.6783	µg/mL	Stressed
14	n-Heptane (C7)		5,044.1	µg/mL	+/-	29.5341	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SHBK8626)			+/-	304.3506	µg/mL	Unstressed
	Purity 98%				+/-	305.0730	µg/mL	Stressed
15	tert-Amyl ethyl ether (TAEE)		5,018.5	µg/mL	+/-	29.3844	µg/mL	Gravimetric
	CAS # 919-94-8	(Lot IKVYB)			+/-	302.8083	µg/mL	Unstressed
	Purity 99%				+/-	303.5271	µg/mL	Stressed
16	Methyl methacrylate		5,028.0	µg/mL	+/-	29.4400	µg/mL	Gravimetric
	CAS # 80-62-6	(Lot MKCG6589)			+/-	303.3815	µg/mL	Unstressed
	Purity 99%				+/-	304.1017	µg/mL	Stressed
17	Ethyl methacrylate		5,043.0	µg/mL	+/-	29.5279	µg/mL	Gravimetric
	CAS # 97-63-2	(Lot SHBF9649V)			+/-	304.2866	µg/mL	Unstressed
	Purity 99%				+/-	305.0089	µg/mL	Stressed
18	Benzyl chloride		5,019.5	µg/mL	+/-	29.3903	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBH2102V)			+/-	302.8686	µg/mL	Unstressed
	Purity 99%				+/-	303.5876	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)

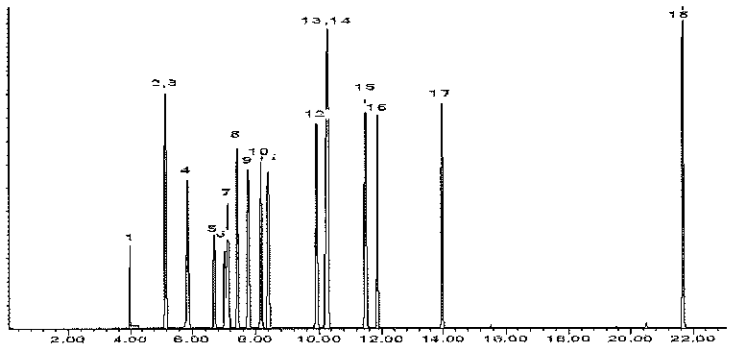
Carrier Gas:
helium-constant pressure 30 psi

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.

Tom Suckar - Mix Technician

Date Mixed: 10-Mar-2020 **Balance:** B707717271

Fang-Yun Lo - QC Analyst

Date Passed: 25-Mar-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_V#4C_00107

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. : 572312 **Lot No.:** A0158660

Description : Custom V #4C (Rev 3) Standard

Custom V #4C (Rev 3) Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : March 31, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	1,3-Butadiene		5,002.1	µg/mL	+/- 39.8717	µg/mL	Gravimetric
	CAS # 106-99-0	(Lot SHBK2299)			+/- 303.0271	µg/mL	Unstressed
	Purity 99%				+/- 303.7407	µg/mL	Stressed
2	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)		5,001.4	µg/mL	+/- 47.3932	µg/mL	Gravimetric
	CAS # 354-23-4	(Lot Q9B-64)			+/- 304.0702	µg/mL	Unstressed
	Purity 99%				+/- 304.7812	µg/mL	Stressed
3	n-Pentane (C5)		5,025.0	µg/mL	+/- 29.4225	µg/mL	Gravimetric
	CAS # 109-66-0	(Lot SHBL0400)			+/- 303.2005	µg/mL	Unstressed
	Purity 99%				+/- 303.9203	µg/mL	Stressed
4	1,1,2-Trichlorotrifluoroethane (CFC-113)		5,024.0	µg/mL	+/- 29.4166	µg/mL	Gravimetric
	CAS # 76-13-1	(Lot 00016133)			+/- 303.1402	µg/mL	Unstressed
	Purity 99%				+/- 303.8598	µg/mL	Stressed
5	Iodomethane (methyl iodide)		5,035.0	µg/mL	+/- 29.4810	µg/mL	Gravimetric
	CAS # 74-88-4	(Lot D4406-0122JM)			+/- 303.8039	µg/mL	Unstressed
	Purity 99%				+/- 304.5251	µg/mL	Stressed
6	Carbon disulfide		5,046.0	µg/mL	+/- 29.5454	µg/mL	Gravimetric
	CAS # 75-15-0	(Lot U22D706)			+/- 304.4676	µg/mL	Unstressed
	Purity 99%				+/- 305.1904	µg/mL	Stressed
7	Methyl-tert-butyl ether (MTBE)		5,025.0	µg/mL	+/- 29.4225	µg/mL	Gravimetric
	CAS # 1634-04-4	(Lot SHBK4806)			+/- 303.2005	µg/mL	Unstressed
	Purity 99%				+/- 303.9203	µg/mL	Stressed

8	n-Hexane (C6)		5,025.5	µg/mL	+/-	29.4254	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBL0924)			+/-	303.2307	µg/mL	Unstressed
	Purity 99%				+/-	303.9505	µg/mL	Stressed
9	Diisopropyl ether (DIPE)		5,015.0	µg/mL	+/-	29.3639	µg/mL	Gravimetric
	CAS # 108-20-3	(Lot SHBH1927V)			+/-	302.5971	µg/mL	Unstressed
	Purity 99%				+/-	303.3154	µg/mL	Stressed
10	Chloroprene (2-chloro-1,3-butadiene)		5,046.5	µg/mL	+/-	29.5484	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 191204JLM)			+/-	304.4978	µg/mL	Unstressed
	Purity 99%				+/-	305.2206	µg/mL	Stressed
11	Ethyl-tert-butyl ether (ETBE)		5,026.5	µg/mL	+/-	29.4313	µg/mL	Gravimetric
	CAS # 637-92-3	(Lot MKCJ3589)			+/-	303.2910	µg/mL	Unstressed
	Purity 99%				+/-	304.0110	µg/mL	Stressed
12	Cyclohexane		5,028.5	µg/mL	+/-	29.4430	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKCF5831)			+/-	303.4117	µg/mL	Unstressed
	Purity 99%				+/-	304.1319	µg/mL	Stressed
13	tert-Amyl methyl ether (TAME)		5,021.0	µg/mL	+/-	29.3991	µg/mL	Gravimetric
	CAS # 994-05-8	(Lot HMBG6382V)			+/-	302.9592	µg/mL	Unstressed
	Purity 99%				+/-	303.6783	µg/mL	Stressed
14	n-Heptane (C7)		5,044.1	µg/mL	+/-	29.5341	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SHBK8626)			+/-	304.3506	µg/mL	Unstressed
	Purity 98%				+/-	305.0730	µg/mL	Stressed
15	tert-Amyl ethyl ether (TAEE)		5,018.5	µg/mL	+/-	29.3844	µg/mL	Gravimetric
	CAS # 919-94-8	(Lot IKVYB)			+/-	302.8083	µg/mL	Unstressed
	Purity 99%				+/-	303.5271	µg/mL	Stressed
16	Methyl methacrylate		5,028.0	µg/mL	+/-	29.4400	µg/mL	Gravimetric
	CAS # 80-62-6	(Lot MKCG6589)			+/-	303.3815	µg/mL	Unstressed
	Purity 99%				+/-	304.1017	µg/mL	Stressed
17	Ethyl methacrylate		5,043.0	µg/mL	+/-	29.5279	µg/mL	Gravimetric
	CAS # 97-63-2	(Lot SHBF9649V)			+/-	304.2866	µg/mL	Unstressed
	Purity 99%				+/-	305.0089	µg/mL	Stressed
18	Benzyl chloride		5,019.5	µg/mL	+/-	29.3903	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBH2102V)			+/-	302.8686	µg/mL	Unstressed
	Purity 99%				+/-	303.5876	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)

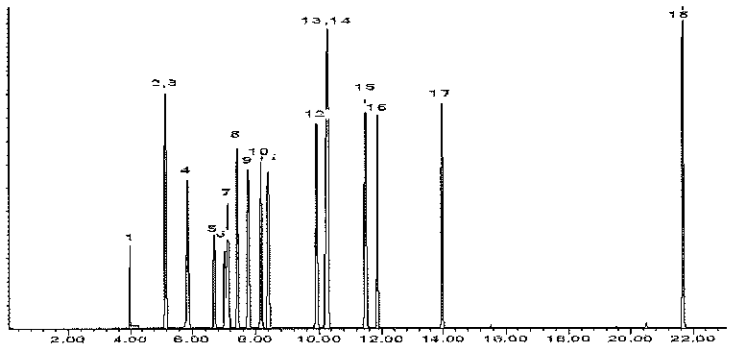
Carrier Gas:
helium-constant pressure 30 psi

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.

Tom Suckar - Mix Technician

Date Mixed: 10-Mar-2020 **Balance:** B707717271

Fang-Yun Lo - QC Analyst

Date Passed: 25-Mar-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.

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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_V#4C_00124

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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. : 572312 **Lot No.:** A0158660

Description : Custom V #4C (Rev 3) Standard

Custom V #4C (Rev 3) Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : March 31, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,3-Butadiene	5,002.1 µg/mL	+/- 39.8717 µg/mL	Gravimetric
	CAS # 106-99-0 (Lot SHBK2299)		+/- 303.0271 µg/mL	Unstressed
	Purity 99%		+/- 303.7407 µg/mL	Stressed
2	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	5,001.4 µg/mL	+/- 47.3932 µg/mL	Gravimetric
	CAS # 354-23-4 (Lot Q9B-64)		+/- 304.0702 µg/mL	Unstressed
	Purity 99%		+/- 304.7812 µg/mL	Stressed
3	n-Pentane (C5)	5,025.0 µg/mL	+/- 29.4225 µg/mL	Gravimetric
	CAS # 109-66-0 (Lot SHBL0400)		+/- 303.2005 µg/mL	Unstressed
	Purity 99%		+/- 303.9203 µg/mL	Stressed
4	1,1,2-Trichlorotrifluoroethane (CFC-113)	5,024.0 µg/mL	+/- 29.4166 µg/mL	Gravimetric
	CAS # 76-13-1 (Lot 00016133)		+/- 303.1402 µg/mL	Unstressed
	Purity 99%		+/- 303.8598 µg/mL	Stressed
5	Iodomethane (methyl iodide)	5,035.0 µg/mL	+/- 29.4810 µg/mL	Gravimetric
	CAS # 74-88-4 (Lot D4406-0122JM)		+/- 303.8039 µg/mL	Unstressed
	Purity 99%		+/- 304.5251 µg/mL	Stressed
6	Carbon disulfide	5,046.0 µg/mL	+/- 29.5454 µg/mL	Gravimetric
	CAS # 75-15-0 (Lot U22D706)		+/- 304.4676 µg/mL	Unstressed
	Purity 99%		+/- 305.1904 µg/mL	Stressed
7	Methyl-tert-butyl ether (MTBE)	5,025.0 µg/mL	+/- 29.4225 µg/mL	Gravimetric
	CAS # 1634-04-4 (Lot SHBK4806)		+/- 303.2005 µg/mL	Unstressed
	Purity 99%		+/- 303.9203 µg/mL	Stressed

8	n-Hexane (C6)		5,025.5	µg/mL	+/-	29.4254	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBL0924)			+/-	303.2307	µg/mL	Unstressed
	Purity 99%				+/-	303.9505	µg/mL	Stressed
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	CAS # 108-20-3	(Lot SHBH1927V)			+/-	302.5971	µg/mL	Unstressed
	Purity 99%				+/-	303.3154	µg/mL	Stressed
10	Chloroprene (2-chloro-1,3-butadiene)		5,046.5	µg/mL	+/-	29.5484	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 191204JLM)			+/-	304.4978	µg/mL	Unstressed
	Purity 99%				+/-	305.2206	µg/mL	Stressed
11	Ethyl-tert-butyl ether (ETBE)		5,026.5	µg/mL	+/-	29.4313	µg/mL	Gravimetric
	CAS # 637-92-3	(Lot MKCJ3589)			+/-	303.2910	µg/mL	Unstressed
	Purity 99%				+/-	304.0110	µg/mL	Stressed
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	CAS # 110-82-7	(Lot MKCF5831)			+/-	303.4117	µg/mL	Unstressed
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15	tert-Amyl ethyl ether (TAEE)		5,018.5	µg/mL	+/-	29.3844	µg/mL	Gravimetric
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18	Benzyl chloride		5,019.5	µg/mL	+/-	29.3903	µg/mL	Gravimetric
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Solvent: P&T Methanol
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Purity 99%

Tech Tips:
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Rtx-502.2 (cat.#10916)

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Temp. Program:
40°C (hold 2 min.) to 240°C
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Inj. Temp:
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Det. Temp:
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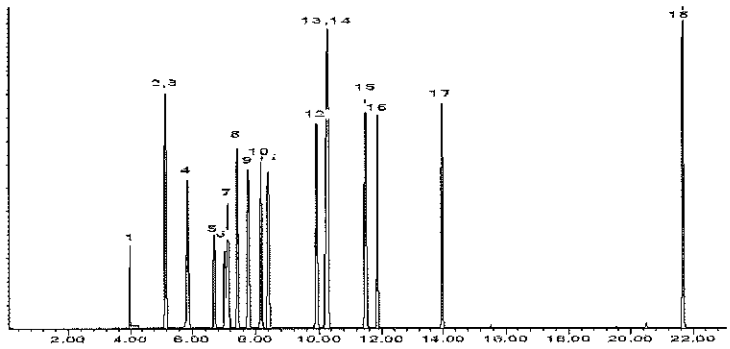
Det. Type:
MSD



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Tom Suckar - Mix Technician

Date Mixed: 10-Mar-2020 **Balance:** B707717271

Fang-Yun Lo - QC Analyst

Date Passed: 25-Mar-2020

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

General Certified Reference Material Notes

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Reagent

MSV_V#6_00045

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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. : 558268 **Lot No.:** A0158625

Description : Custom CS#6 Standard

Custom CS#6 Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : September 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Methyl acetate		5,039.0 µg/mL	+/- 29.5717	µg/mL	Gravimetric
	CAS # 79-20-9	(Lot SHBK5436)		+/- 304.0518	µg/mL	Unstressed
	Purity 99%			+/- 304.7735	µg/mL	Stressed
2	Allyl chloride (3-chloropropene)		5,046.0 µg/mL	+/- 29.6128	µg/mL	Gravimetric
	CAS # 107-05-1	(Lot 191118KJ)		+/- 304.4742	µg/mL	Unstressed
	Purity 99%			+/- 305.1969	µg/mL	Stressed
3	Bromochloromethane		5,040.1 µg/mL	+/- 29.5784	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00008541)		+/- 304.1206	µg/mL	Unstressed
	Purity 98%			+/- 304.8425	µg/mL	Stressed
4	Methylcyclohexane		5,041.0 µg/mL	+/- 29.5834	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBJ0457)		+/- 304.1725	µg/mL	Unstressed
	Purity 99%			+/- 304.8945	µg/mL	Stressed
5	Pentachloroethane		5,035.0 µg/mL	+/- 29.5482	µg/mL	Gravimetric
	CAS # 76-01-7	(Lot 8866000)		+/- 303.8104	µg/mL	Unstressed
	Purity 99%			+/- 304.5316	µg/mL	Stressed
6	1,2,3-Trimethylbenzene		5,012.0 µg/mL	+/- 29.4132	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 8766.05-14)		+/- 302.4226	µg/mL	Unstressed
	Purity 99%			+/- 303.1405	µg/mL	Stressed
7	1,3-Diethylbenzene		5,041.1 µg/mL	+/- 29.5841	µg/mL	Gravimetric
	CAS # 141-93-5	(Lot BCBT8967)		+/- 304.1797	µg/mL	Unstressed
	Purity 98%			+/- 304.9017	µg/mL	Stressed

8	1,4-Diethylbenzene		5,035.2	µg/mL	+/- 29.5496	µg/mL	Gravimetric
	CAS # 105-05-5	(Lot RLHJK)			+/- 303.8249	µg/mL	Unstressed
	Purity 98%				+/- 304.5461	µg/mL	Stressed
9	1,2-Diethylbenzene		5,011.0	µg/mL	+/- 29.4074	µg/mL	Gravimetric
	CAS # 135-01-3	(Lot ECH2970181)			+/- 302.3623	µg/mL	Unstressed
	Purity 99%				+/- 303.0800	µg/mL	Stressed
10	2-Methylnaphthalene		5,023.7	µg/mL	+/- 29.4818	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot STBG8884)			+/- 303.1274	µg/mL	Unstressed
	Purity 96%				+/- 303.8469	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)

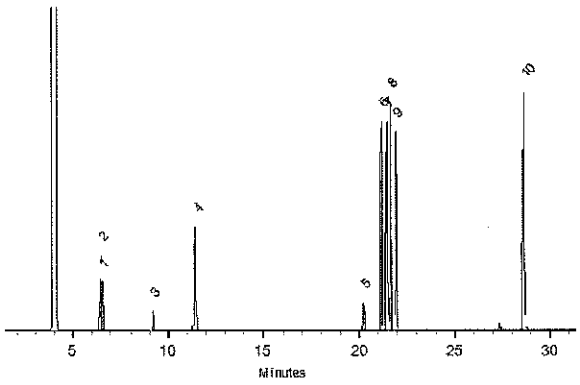
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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.

Tom Suckar - Mix Technician

Date Mixed: 09-Mar-2020 **Balance:** B707717271

Feng-Yue Lu - QC Analyst

Date Passed: 12-Mar-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_V#6_00046

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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Catalog No. : 558268 **Lot No.:** A0158625

Description : Custom CS#6 Standard

Custom CS#6 Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : September 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Methyl acetate		5,039.0 µg/mL	+/- 29.5717	µg/mL	Gravimetric
	CAS # 79-20-9	(Lot SHBK5436)		+/- 304.0518	µg/mL	Unstressed
	Purity 99%			+/- 304.7735	µg/mL	Stressed
2	Allyl chloride (3-chloropropene)		5,046.0 µg/mL	+/- 29.6128	µg/mL	Gravimetric
	CAS # 107-05-1	(Lot 191118KJ)		+/- 304.4742	µg/mL	Unstressed
	Purity 99%			+/- 305.1969	µg/mL	Stressed
3	Bromochloromethane		5,040.1 µg/mL	+/- 29.5784	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00008541)		+/- 304.1206	µg/mL	Unstressed
	Purity 98%			+/- 304.8425	µg/mL	Stressed
4	Methylcyclohexane		5,041.0 µg/mL	+/- 29.5834	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBJ0457)		+/- 304.1725	µg/mL	Unstressed
	Purity 99%			+/- 304.8945	µg/mL	Stressed
5	Pentachloroethane		5,035.0 µg/mL	+/- 29.5482	µg/mL	Gravimetric
	CAS # 76-01-7	(Lot 8866000)		+/- 303.8104	µg/mL	Unstressed
	Purity 99%			+/- 304.5316	µg/mL	Stressed
6	1,2,3-Trimethylbenzene		5,012.0 µg/mL	+/- 29.4132	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 8766.05-14)		+/- 302.4226	µg/mL	Unstressed
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7	1,3-Diethylbenzene		5,041.1 µg/mL	+/- 29.5841	µg/mL	Gravimetric
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	CAS # 135-01-3	(Lot ECH2970181)			+/- 302.3623	µg/mL	Unstressed
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10	2-Methylnaphthalene		5,023.7	µg/mL	+/- 29.4818	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot STBG8884)			+/- 303.1274	µg/mL	Unstressed
	Purity 96%				+/- 303.8469	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)

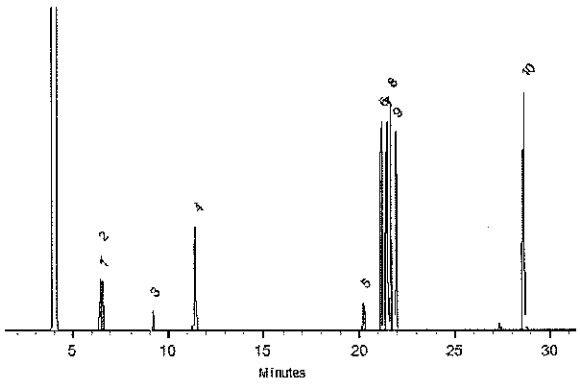
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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



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Tom Suckar - Mix Technician

Date Mixed: 09-Mar-2020 **Balance:** B707717271

Feng-Yue Lu - QC Analyst

Date Passed: 12-Mar-2020

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

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Reagent

MSV_V#6_00060

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Catalog No. : 558268 **Lot No.:** A0158625

Description : Custom CS#6 Standard

Custom CS#6 Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : September 30, 2021 **Storage:** 0°C or colder

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	CAS # 76-01-7	(Lot 8866000)		+/- 303.8104	µg/mL	Unstressed
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Purity 99%

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Det. Temp:
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Det. Type:
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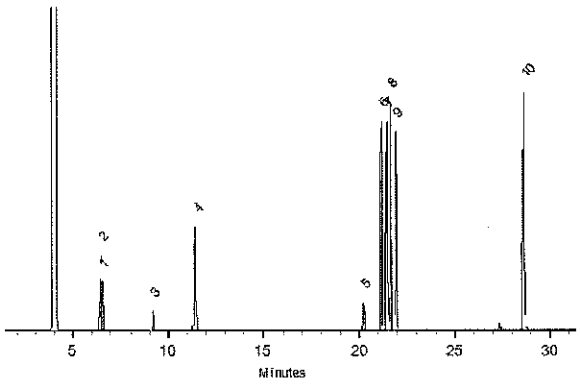

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Reagent

MSV_V_Gas_00175

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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

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Catalog No. : 55669 **Lot No.:** A0159812

Description : Custom 502.2 "V" Gas Mix

Custom 502.2 "V" Gas Mix 2,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : May 31, 2027 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,005.1 µg/mL	+/- 16.8576	µg/mL	Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/- 113.0809	µg/mL	Unstressed
	Purity 99%		+/- 115.6966	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,003.5 µg/mL	+/- 19.3327	µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/- 113.3884	µg/mL	Unstressed
	Purity 99%		+/- 115.9929	µg/mL	Stressed
3	Vinyl chloride	2,001.1 µg/mL	+/- 18.1213	µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/- 113.0560	µg/mL	Unstressed
	Purity 99%		+/- 115.6619	µg/mL	Stressed
4	Bromomethane (methyl bromide)	1,998.8 µg/mL	+/- 17.7535	µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/- 112.8737	µg/mL	Unstressed
	Purity 99%		+/- 115.4779	µg/mL	Stressed
5	Chloroethane (ethyl chloride)	2,002.3 µg/mL	+/- 17.1357	µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/- 112.9711	µg/mL	Unstressed
	Purity 99%		+/- 115.5821	µg/mL	Stressed
6	Trichlorofluoromethane (CFC-11)	2,020.0 µg/mL	+/- 11.7716	µg/mL	Gravimetric
	CAS # 75-69-4 (Lot 25931)		+/- 113.2622	µg/mL	Unstressed
	Purity 99%		+/- 115.9123	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)

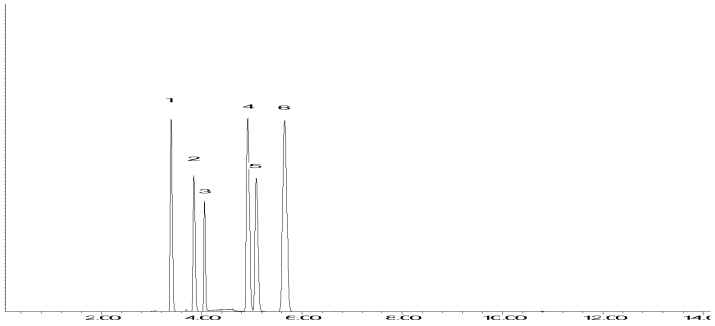
Carrier Gas:
helium-constant flow 2.0 mL/min.

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: 10-Apr-2020 **Balance:** B707717271

Jennifer Pollino - 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_V_Gas_00176

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. : 55669 **Lot No.:** A0159812

Description : Custom 502.2 "V" Gas Mix

Custom 502.2 "V" Gas Mix 2,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : May 31, 2027 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,005.1 µg/mL	+/- 16.8576 µg/mL		Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/- 113.0809 µg/mL		Unstressed
	Purity 99%		+/- 115.6966 µg/mL		Stressed
2	Chloromethane (methyl chloride)	2,003.5 µg/mL	+/- 19.3327 µg/mL		Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/- 113.3884 µg/mL		Unstressed
	Purity 99%		+/- 115.9929 µg/mL		Stressed
3	Vinyl chloride	2,001.1 µg/mL	+/- 18.1213 µg/mL		Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/- 113.0560 µg/mL		Unstressed
	Purity 99%		+/- 115.6619 µg/mL		Stressed
4	Bromomethane (methyl bromide)	1,998.8 µg/mL	+/- 17.7535 µg/mL		Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/- 112.8737 µg/mL		Unstressed
	Purity 99%		+/- 115.4779 µg/mL		Stressed
5	Chloroethane (ethyl chloride)	2,002.3 µg/mL	+/- 17.1357 µg/mL		Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/- 112.9711 µg/mL		Unstressed
	Purity 99%		+/- 115.5821 µg/mL		Stressed
6	Trichlorofluoromethane (CFC-11)	2,020.0 µg/mL	+/- 11.7716 µg/mL		Gravimetric
	CAS # 75-69-4 (Lot 25931)		+/- 113.2622 µg/mL		Unstressed
	Purity 99%		+/- 115.9123 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)

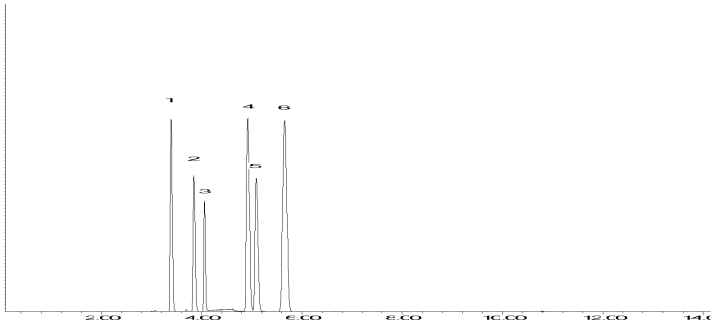
Carrier Gas:
helium-constant flow 2.0 mL/min.

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: 10-Apr-2020 **Balance:** B707717271

Jennifer Pollino - 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.
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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:

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Reagent

MSV_V_Gas_00220

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Certificate #3222.02

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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. : 55669 **Lot No.:** A0159812

Description : Custom 502.2 "V" Gas Mix

Custom 502.2 "V" Gas Mix 2,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : May 31, 2027 **Storage:** 0°C or colder

CERTIFIED VALUES

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	Purity 99%		+/- 115.6966	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,003.5 µg/mL	+/- 19.3327	µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/- 113.3884	µg/mL	Unstressed
	Purity 99%		+/- 115.9929	µg/mL	Stressed
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	CAS # 75-01-4 (Lot 00015559)		+/- 113.0560	µg/mL	Unstressed
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	CAS # 75-69-4 (Lot 25931)		+/- 113.2622	µg/mL	Unstressed
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Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

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

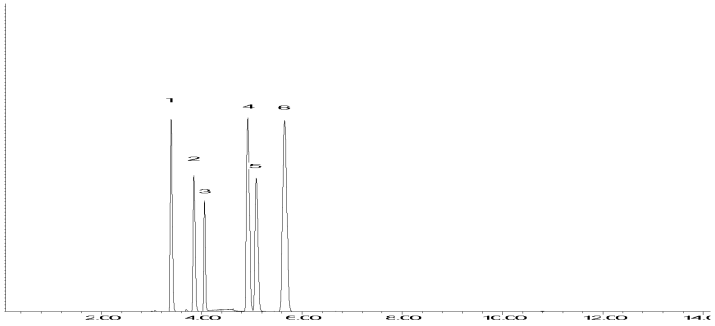
Carrier Gas:
helium-constant flow 2.0 mL/min.

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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Tom Suckar - Mix Technician

Date Mixed: 10-Apr-2020 **Balance:** B707717271

Jennifer Pollino - 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

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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:

- 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.

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.: 410-30627-1

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	410-30627-1	99	101	101	97
HD-COD-SW-7-0/1-0	410-30627-2	100	101	101	97
HD-COD-SW-8-0/1-0	410-30627-3	101	101	102	97
HD-COD-SW-9-0/1-0	410-30627-4	103	101	98	97
HD-COD-SW-13-0/1-0	410-30627-5	103	103	97	97
HD-COD-SW-15-0/1-0	410-30627-6	102	101	97	97
HD-COD-SW-16-0/1-0	410-30627-7	104	104	98	96
HD-COD-SW-17-0/1-0	410-30627-8	103	102	98	96
HD-COD-SW-26-0/1-0	410-30627-9	103	103	98	97
HD-COD-SW-27-0/1-0	410-30627-10	104	101	97	96
HD-COD-SW-28-0/1-0	410-30627-11	103	102	98	96
HD-COD-SW-29-0/1-0	410-30627-12	104	102	97	97
HD-QC1-0/1-1	410-30627-13	102	104	98	97
HD-QC1-0/1-2	410-30627-14	102	103	98	97
	MB 410-99025/10	100	102	101	96
	MB 410-99333/8	102	102	98	97
	LCS 410-99025/5	101	103	101	97
	LCS 410-99333/5	100	102	98	99
	LCSD 410-99025/6	102	100	101	97
HD-COD-SW-15-0/1-0 MS	410-30627-6 MS	101	98	99	99
HD-COD-SW-15-0/1-0 MSD	410-30627-6 MSD	100	100	98	99

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

Column to be used to flag recovery values

FORM II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-30627-1

SDG No.:

Matrix: Water Level: Low Lab File ID: GM03X05.D

Lab ID: LCS 410-99025/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	4.79	96	71-134	
1,1,1-Trichloroethane	5.00	4.67	93	78-126	
1,1,2,2-Tetrachloroethane	5.00	4.67	93	75-123	
1,1,2-Trichloroethane	5.00	4.78	96	80-120	
1,1-Dichloroethane	5.00	4.48	90	74-120	
1,1-Dichloroethene	5.00	4.75	95	80-131	
1,2-Dibromoethane (EDB)	5.00	4.75	95	80-120	
1,2-Dichloroethane	5.00	4.35	87	69-122	
1,2-Dichloropropane	5.00	4.61	92	80-120	
2-Butanone (MEK)	37.5	35.9	96	59-141	
2-Hexanone	25.0	23.2	93	52-140	
4-Methyl-2-pentanone (MIBK)	25.0	23.3	93	55-140	
Acetone	37.5	33.3	89	60-146	
Benzene	5.00	4.55	91	80-120	
Bromochloromethane	5.00	4.80	96	80-120	
Bromodichloromethane	5.00	4.64	93	73-124	
Bromoform	5.00	4.87	97	49-144	
Bromomethane	5.00	4.41	88	60-136	
Carbon disulfide	5.00	4.55	91	67-130	
Carbon tetrachloride	5.00	4.80	96	64-141	
Chlorobenzene	5.00	4.86	97	80-120	
Chloroethane	5.00	4.28	86	63-120	
Chloroform	5.00	4.65	93	80-120	
Chloromethane	5.00	4.02	80	56-124	
cis-1,2-Dichloroethene	5.00	4.76	95	80-122	
cis-1,3-Dichloropropene	5.00	4.42	88	67-121	
Dibromochloromethane	5.00	4.79	96	64-138	
Ethylbenzene	5.00	4.66	93	80-120	
Methyl tert-butyl ether	5.00	4.32	86	69-120	
Methylene Chloride	5.00	4.77	95	80-120	
Styrene	5.00	4.77	95	80-120	
Tetrachloroethene	5.00	4.97	99	80-120	
Toluene	5.00	4.69	94	80-120	
trans-1,2-Dichloroethene	5.00	4.74	95	80-122	
trans-1,3-Dichloropropene	5.00	4.61	92	61-129	
Trichloroethene	5.00	4.66	93	80-120	
Vinyl chloride	5.00	4.47	89	60-125	
Xylenes, Total	15.0	14.5	97	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 Job No.: 410-30627-1

SDG No.:

Matrix: Water Level: Low Lab File ID: IM03L31.D

Lab ID: LCS 410-99333/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	5.00	4.79	96	71-134	
1,1,1-Trichloroethane	5.00	4.90	98	78-126	
1,1,2,2-Tetrachloroethane	5.00	4.77	95	75-123	
1,1,2-Trichloroethane	5.00	4.81	96	80-120	
1,1-Dichloroethane	5.00	4.81	96	74-120	
1,1-Dichloroethene	5.00	4.84	97	80-131	
1,2-Dibromoethane (EDB)	5.00	4.75	95	80-120	
1,2-Dichloroethane	5.00	4.88	98	69-122	
1,2-Dichloropropane	5.00	5.00	100	80-120	
2-Butanone (MEK)	37.5	44.4	118	59-141	
2-Hexanone	25.0	30.7	123	52-140	
4-Methyl-2-pentanone (MIBK)	25.0	30.5	122	55-140	
Acetone	37.5	36.9	99	60-146	
Benzene	5.00	4.80	96	80-120	
Bromochloromethane	5.00	4.73	95	80-120	
Bromodichloromethane	5.00	4.96	99	73-124	
Bromoform	5.00	4.75	95	49-144	
Bromomethane	5.00	4.96	99	60-136	
Carbon disulfide	5.00	4.71	94	67-130	
Carbon tetrachloride	5.00	4.95	99	64-141	
Chlorobenzene	5.00	4.71	94	80-120	
Chloroethane	5.00	4.86	97	63-120	
Chloroform	5.00	4.87	97	80-120	
Chloromethane	5.00	4.84	97	56-124	
cis-1,2-Dichloroethene	5.00	4.77	95	80-122	
cis-1,3-Dichloropropene	5.00	4.97	99	67-121	
Dibromochloromethane	5.00	4.74	95	64-138	
Ethylbenzene	5.00	4.64	93	80-120	
Methyl tert-butyl ether	5.00	4.71	94	69-120	
Methylene Chloride	5.00	4.76	95	80-120	
Styrene	5.00	4.73	95	80-120	
Tetrachloroethene	5.00	4.60	92	80-120	
Toluene	5.00	4.58	92	80-120	
trans-1,2-Dichloroethene	5.00	4.76	95	80-122	
trans-1,3-Dichloropropene	5.00	5.13	103	61-129	
Trichloroethene	5.00	4.76	95	80-120	
Vinyl chloride	5.00	5.05	101	60-125	
Xylenes, Total	15.0	13.9	93	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 Job No.: 410-30627-1

SDG No.:

Matrix: Water Level: Low Lab File ID: GM03X06.D

Lab ID: LCSD 410-99025/6 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	4.76	95	1	30	71-134	
1,1,1-Trichloroethane	5.00	4.69	94	0	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	4.67	93	0	30	75-123	
1,1,2-Trichloroethane	5.00	4.88	98	2	30	80-120	
1,1-Dichloroethane	5.00	4.45	89	1	30	74-120	
1,1-Dichloroethene	5.00	4.69	94	1	30	80-131	
1,2-Dibromoethane (EDB)	5.00	4.65	93	2	30	80-120	
1,2-Dichloroethane	5.00	4.33	87	1	30	69-122	
1,2-Dichloropropane	5.00	4.58	92	1	30	80-120	
2-Butanone (MEK)	37.5	36.7	98	2	30	59-141	
2-Hexanone	25.0	24.5	98	5	30	52-140	
4-Methyl-2-pentanone (MIBK)	25.0	24.3	97	4	30	55-140	
Acetone	37.5	34.8	93	4	30	60-146	
Benzene	5.00	4.53	91	0	30	80-120	
Bromochloromethane	5.00	4.76	95	1	30	80-120	
Bromodichloromethane	5.00	4.60	92	1	30	73-124	
Bromoform	5.00	4.76	95	2	30	49-144	
Bromomethane	5.00	4.36	87	1	30	60-136	
Carbon disulfide	5.00	4.47	89	2	30	67-130	
Carbon tetrachloride	5.00	4.72	94	2	30	64-141	
Chlorobenzene	5.00	4.83	97	1	30	80-120	
Chloroethane	5.00	4.26	85	1	30	63-120	
Chloroform	5.00	4.60	92	1	30	80-120	
Chloromethane	5.00	4.01	80	0	30	56-124	
cis-1,2-Dichloroethene	5.00	4.73	95	1	30	80-122	
cis-1,3-Dichloropropene	5.00	4.33	87	2	30	67-121	
Dibromochloromethane	5.00	4.64	93	3	30	64-138	
Ethylbenzene	5.00	4.62	92	1	30	80-120	
Methyl tert-butyl ether	5.00	4.31	86	0	30	69-120	
Methylene Chloride	5.00	4.72	94	1	30	80-120	
Styrene	5.00	4.76	95	0	30	80-120	
Tetrachloroethene	5.00	4.98	100	0	30	80-120	
Toluene	5.00	4.62	92	1	30	80-120	
trans-1,2-Dichloroethene	5.00	4.64	93	2	30	80-122	
trans-1,3-Dichloropropene	5.00	4.46	89	3	30	61-129	
Trichloroethene	5.00	4.72	94	1	30	80-120	
Vinyl chloride	5.00	4.22	84	6	30	60-125	
Xylenes, Total	15.0	14.4	96	1	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 Job No.: 410-30627-1

SDG No.:

Matrix: Water Level: Low Lab File ID: IM03S38.D

Lab ID: 410-30627-6 MS Client ID: HD-COD-SW-15-0/1-0 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	4.93	99	71-134	
1,1,1-Trichloroethane	5.00	0.10 J	5.21	102	78-126	
1,1,2,2-Tetrachloroethane	5.00	ND	4.82	96	75-123	
1,1,2-Trichloroethane	5.00	ND	4.92	98	80-120	
1,1-Dichloroethane	5.00	ND	4.91	98	74-120	
1,1-Dichloroethene	5.00	0.064 J	5.16	102	80-131	
1,2-Dibromoethane (EDB)	5.00	ND	4.72	94	80-120	
1,2-Dichloroethane	5.00	ND	4.85	97	69-122	
1,2-Dichloropropane	5.00	ND	5.00	100	80-120	
2-Butanone (MEK)	37.5	ND	34.9	93	59-141	
2-Hexanone	25.0	ND	24.4	97	52-140	
4-Methyl-2-pentanone (MIBK)	25.0	ND	23.2	93	55-140	
Acetone	37.5	1.2 J	31.4	80	60-146	
Benzene	5.00	ND	4.86	97	80-120	
Bromochloromethane	5.00	ND	4.65	93	80-120	
Bromodichloromethane	5.00	ND	4.97	99	73-124	
Bromoform	5.00	ND	4.80	96	49-144	
Bromomethane	5.00	ND	4.92	98	60-136	
Carbon disulfide	5.00	ND	4.75	95	67-130	
Carbon tetrachloride	5.00	ND	5.19	104	64-141	
Chlorobenzene	5.00	ND	4.88	97	80-120	
Chloroethane	5.00	ND	4.96	99	63-120	
Chloroform	5.00	0.14 J	5.13	100	80-120	
Chloromethane	5.00	ND	4.96	99	80-120	
cis-1,2-Dichloroethene	5.00	0.43 J	5.21	95	80-122	
cis-1,3-Dichloropropene	5.00	ND	4.90	98	67-121	
Dibromochloromethane	5.00	ND	4.89	98	64-138	
Ethylbenzene	5.00	ND	4.88	98	80-120	
Methyl tert-butyl ether	5.00	ND	4.59	92	69-120	
Methylene Chloride	5.00	ND	4.78	96	80-120	
Styrene	5.00	ND	4.92	98	80-120	
Tetrachloroethene	5.00	1.5	6.46	99	80-120	
Toluene	5.00	ND	4.81	96	80-120	
trans-1,2-Dichloroethene	5.00	ND	4.83	97	80-122	
trans-1,3-Dichloropropene	5.00	ND	4.99	100	61-129	
Trichloroethene	5.00	0.53	5.53	100	80-120	
Vinyl chloride	5.00	ND	5.21	104	60-125	
Xylenes, Total	15.0	ND	14.7	98	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 Job No.: 410-30627-1

SDG No.:

Matrix: Water Level: Low Lab File ID: IM03S39.D

Lab ID: 410-30627-6 MSD Client ID: HD-COD-SW-15-0/1-0 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	5.00	100	1	30	71-134	
1,1,1-Trichloroethane	5.00	5.24	103	1	30	78-126	
1,1,2,2-Tetrachloroethane	5.00	4.81	96	0	30	75-123	
1,1,2-Trichloroethane	5.00	4.91	98	0	30	80-120	
1,1-Dichloroethane	5.00	4.93	99	0	30	74-120	
1,1-Dichloroethene	5.00	5.09	101	1	30	80-131	
1,2-Dibromoethane (EDB)	5.00	4.77	95	1	30	80-120	
1,2-Dichloroethane	5.00	4.82	96	0	30	69-122	
1,2-Dichloropropane	5.00	5.06	101	1	30	80-120	
2-Butanone (MEK)	37.5	34.9	93	0	30	59-141	
2-Hexanone	25.0	24.3	97	0	30	52-140	
4-Methyl-2-pentanone (MIBK)	25.0	23.5	94	1	30	55-140	
Acetone	37.5	31.3	80	0	30	60-146	
Benzene	5.00	4.89	98	1	30	80-120	
Bromochloromethane	5.00	4.72	94	1	30	80-120	
Bromodichloromethane	5.00	4.98	100	0	30	73-124	
Bromoform	5.00	4.86	97	1	30	49-144	
Bromomethane	5.00	5.07	101	3	30	60-136	
Carbon disulfide	5.00	4.72	94	1	30	67-130	
Carbon tetrachloride	5.00	5.24	105	1	30	64-141	
Chlorobenzene	5.00	4.89	98	0	30	80-120	
Chloroethane	5.00	4.97	99	0	30	63-120	
Chloroform	5.00	5.11	99	0	30	80-120	
Chloromethane	5.00	5.07	101	2	30	80-120	
cis-1,2-Dichloroethene	5.00	5.27	97	1	30	80-122	
cis-1,3-Dichloropropene	5.00	4.99	100	2	30	67-121	
Dibromochloromethane	5.00	4.84	97	1	30	64-138	
Ethylbenzene	5.00	4.91	98	0	30	80-120	
Methyl tert-butyl ether	5.00	4.67	93	2	30	69-120	
Methylene Chloride	5.00	4.75	95	1	30	80-120	
Styrene	5.00	4.88	97	1	30	80-120	
Tetrachloroethene	5.00	6.56	100	1	30	80-120	
Toluene	5.00	4.82	96	0	30	80-120	
trans-1,2-Dichloroethene	5.00	4.91	98	2	30	80-122	
trans-1,3-Dichloropropene	5.00	5.17	103	4	30	61-129	
Trichloroethene	5.00	5.50	99	1	30	80-120	
Vinyl chloride	5.00	5.34	107	3	30	60-125	
Xylenes, Total	15.0	14.6	97	0	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.: 410-30627-1

SDG No.:

Lab File ID: GM03X10.D Lab Sample ID: MB 410-99025/10

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

Instrument ID: 16334 Date Analyzed: 03/03/2021 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 410-99025/5	GM03X05.D	03/03/2021 10:01
	LCSD 410-99025/6	GM03X06.D	03/03/2021 10:23
HD-COD-SW-6-0/1-0	410-30627-1	GM03X20.D	03/03/2021 15:30
HD-COD-SW-7-0/1-0	410-30627-2	GM03X21.D	03/03/2021 15:52
HD-COD-SW-8-0/1-0	410-30627-3	GM03X22.D	03/03/2021 16:14

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-30627-1

SDG No.:

Lab File ID: IM03B31.D Lab Sample ID: MB 410-99333/8

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

Instrument ID: 19930 Date Analyzed: 03/03/2021 21:15

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 410-99333/5	IM03L31.D	03/03/2021 20:11
HD-QC1-0/1-2	410-30627-14	IM03S31.D	03/03/2021 21:36
HD-COD-SW-9-0/1-0	410-30627-4	IM03S35.D	03/03/2021 23:02
HD-COD-SW-13-0/1-0	410-30627-5	IM03S36.D	03/03/2021 23:23
HD-COD-SW-15-0/1-0	410-30627-6	IM03S37.D	03/03/2021 23:44
HD-COD-SW-15-0/1-0 MS	410-30627-6 MS	IM03S38.D	03/04/2021 00:05
HD-COD-SW-15-0/1-0 MSD	410-30627-6 MSD	IM03S39.D	03/04/2021 00:27
HD-COD-SW-16-0/1-0	410-30627-7	IM03S42.D	03/04/2021 01:31
HD-COD-SW-17-0/1-0	410-30627-8	IM03S43.D	03/04/2021 01:52
HD-COD-SW-26-0/1-0	410-30627-9	IM03S44.D	03/04/2021 02:13
HD-COD-SW-27-0/1-0	410-30627-10	IM03S45.D	03/04/2021 02:35
HD-COD-SW-28-0/1-0	410-30627-11	IM03S46.D	03/04/2021 02:56
HD-COD-SW-29-0/1-0	410-30627-12	IM03S47.D	03/04/2021 03:17
HD-QC1-0/1-1	410-30627-13	IM03S48.D	03/04/2021 03:38

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Lab File ID: GN30T01.D BFB Injection Date: 11/30/2020

Instrument ID: 16334 BFB Injection Time: 11:46

Analysis Batch No.: 70996

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.6	
75	30.0 - 60.0 % of mass 95	46.9	
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	0.2	(0.3) 1
174	Greater than 50% of mass 95	79.8	
175	5.0 - 9.0 % of mass 174	6.0	(7.5) 1
176	95.0 - 101.0 % of mass 174	76.1	(95.4) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.8) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 410-70996/3	GN30I01.D	11/30/2020	12:50
	ICIS 410-70996/4	GN30I02.D	11/30/2020	13:12
	IC 410-70996/5	GN30I03.D	11/30/2020	13:34
	IC 410-70996/6	GN30I04.D	11/30/2020	13:56
	IC 410-70996/7	GN30I05.D	11/30/2020	14:19
	IC 410-70996/8	GN30I06.D	11/30/2020	14:41
	IC 410-70996/9	GN30I07.D	11/30/2020	15:03
	ICV 410-70996/10	GN30V01.D	11/30/2020	15:26

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Lab File ID: GM03T02.D BFB Injection Date: 03/03/2021

Instrument ID: 16334 BFB Injection Time: 08:28

Analysis Batch No.: 99025

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.0	
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	0.0	(0.0) 1
174	Greater than 50% of mass 95	85.9	
175	5.0 - 9.0 % of mass 174	7.1	(8.2) 1
176	95.0 - 101.0 % of mass 174	83.8	(97.6) 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
	CCVIS 410-99025/3	GM03X03.D	03/03/2021	9:17
	LCS 410-99025/5	GM03X05.D	03/03/2021	10:01
	LCSD 410-99025/6	GM03X06.D	03/03/2021	10:23
	MB 410-99025/10	GM03X10.D	03/03/2021	11:51
HD-COD-SW-6-0/1-0	410-30627-1	GM03X20.D	03/03/2021	15:30
HD-COD-SW-7-0/1-0	410-30627-2	GM03X21.D	03/03/2021	15:52
HD-COD-SW-8-0/1-0	410-30627-3	GM03X22.D	03/03/2021	16:14

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Lab File ID: IN23T01.D BFB Injection Date: 11/23/2020

Instrument ID: 19930 BFB Injection Time: 11:57

Analysis Batch No.: 69397

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.4	
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	85.9	
175	5.0 - 9.0 % of mass 174	6.4	(7.4) 1
176	95.0 - 101.0 % of mass 174	83.0	(96.6) 1
177	5.0 - 9.0 % of mass 176	5.6	(6.7) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 410-69397/3	IN23I01.D	11/23/2020	12:45
	ICIS 410-69397/4	IN23I02.D	11/23/2020	13:06
	IC 410-69397/5	IN23I03.D	11/23/2020	13:28
	IC 410-69397/6	IN23I04.D	11/23/2020	13:49
	IC 410-69397/7	IN23I05.D	11/23/2020	14:10
	IC 410-69397/8	IN23I06.D	11/23/2020	14:31
	IC 410-69397/9	IN23I07.D	11/23/2020	14:53
	ICV 410-69397/10	IN23V01.D	11/23/2020	15:14

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Lab File ID: IM03T31.D BFB Injection Date: 03/03/2021

Instrument ID: 19930 BFB Injection Time: 18:52

Analysis Batch No.: 99333

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.6	
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	6.7	
173	Less than 2.0 % of mass 174	1.0	(1.1) 1
174	Greater than 50% of mass 95	89.4	
175	5.0 - 9.0 % of mass 174	6.6	(7.4) 1
176	95.0 - 101.0 % of mass 174	86.0	(96.1) 1
177	5.0 - 9.0 % of mass 176	5.7	(6.6) 2

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

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-99333/3	IM03C31.D	03/03/2021	19:28
	LCS 410-99333/5	IM03L31.D	03/03/2021	20:11
	MB 410-99333/8	IM03B31.D	03/03/2021	21:15
HD-QC1-0/1-2	410-30627-14	IM03S31.D	03/03/2021	21:36
HD-COD-SW-9-0/1-0	410-30627-4	IM03S35.D	03/03/2021	23:02
HD-COD-SW-13-0/1-0	410-30627-5	IM03S36.D	03/03/2021	23:23
HD-COD-SW-15-0/1-0	410-30627-6	IM03S37.D	03/03/2021	23:44
HD-COD-SW-15-0/1-0 MS	410-30627-6 MS	IM03S38.D	03/04/2021	0:05
HD-COD-SW-15-0/1-0 MSD	410-30627-6 MSD	IM03S39.D	03/04/2021	0:27
HD-COD-SW-16-0/1-0	410-30627-7	IM03S42.D	03/04/2021	1:31
HD-COD-SW-17-0/1-0	410-30627-8	IM03S43.D	03/04/2021	1:52
HD-COD-SW-26-0/1-0	410-30627-9	IM03S44.D	03/04/2021	2:13
HD-COD-SW-27-0/1-0	410-30627-10	IM03S45.D	03/04/2021	2:35
HD-COD-SW-28-0/1-0	410-30627-11	IM03S46.D	03/04/2021	2:56
HD-COD-SW-29-0/1-0	410-30627-12	IM03S47.D	03/04/2021	3:17
HD-QC1-0/1-1	410-30627-13	IM03S48.D	03/04/2021	3:38

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Sample No.: ICIS 410-70996/4 Date Analyzed: 11/30/2020 13:12

Instrument ID: 16334 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): GN30I02.D Heated Purge: (Y/N) N

Calibration ID: 16331

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		186094	4.21	2246480	7.67	1636269	11.15
UPPER LIMIT		372188	4.71	4492960	8.17	3272538	11.65
LOWER LIMIT		93047	3.71	1123240	7.17	818135	10.65
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-70996/10		179392	4.21	2211317	7.67	1601223	11.15
CCVIS 410-99025/3		167452	4.18	1989071	7.67	1435532	11.15

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.: 410-30627-1

SDG No.:

Sample No.: ICIS 410-70996/4 Date Analyzed: 11/30/2020 13:12

Instrument ID: 16334 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): GN30I02.D Heated Purge: (Y/N) N

Calibration ID: 16331

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		888382	13.03				
UPPER LIMIT		1776764	13.53				
LOWER LIMIT		444191	12.53				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-70996/10		862512	13.03				
CCVIS 410-99025/3		795212	13.02				

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.: 410-30627-1

SDG No.:

Sample No.: CCVIS 410-99025/3 Date Analyzed: 03/03/2021 09:17

Instrument ID: 16334 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): GM03X03.D Heated Purge: (Y/N) N

Calibration ID: 16334

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		167452	4.18	1989071	7.67	1435532	11.15
UPPER LIMIT		334904	4.68	3978142	8.17	2871064	11.65
LOWER LIMIT		83726	3.68	994536	7.17	717766	10.65
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-99025/5		156614	4.19	1948700	7.67	1411163	11.15
LCSD 410-99025/6		148787	4.18	1947371	7.67	1413917	11.15
MB 410-99025/10		171790	4.20	1917321	7.67	1388571	11.15
410-30627-1	HD-COD-SW-6-0/1-0	159054	4.19	1917229	7.67	1388737	11.15
410-30627-2	HD-COD-SW-7-0/1-0	157676	4.19	1921480	7.67	1389459	11.15
410-30627-3	HD-COD-SW-8-0/1-0	155516	4.18	1917371	7.67	1379529	11.15

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.: 410-30627-1

SDG No.:

Sample No.: CCVIS 410-99025/3 Date Analyzed: 03/03/2021 09:17

Instrument ID: 16334 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): GM03X03.D Heated Purge: (Y/N) N

Calibration ID: 16334

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		795212	13.02				
UPPER LIMIT		1590424	13.52				
LOWER LIMIT		397606	12.52				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-99025/5		773424	13.02				
LCSD 410-99025/6		773988	13.02				
MB 410-99025/10		774763	13.02				
410-30627-1	HD-COD-SW-6-0/1-0	770749	13.02				
410-30627-2	HD-COD-SW-7-0/1-0	772772	13.02				
410-30627-3	HD-COD-SW-8-0/1-0	770528	13.02				

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.: 410-30627-1

SDG No.:

Sample No.: ICIS 410-69397/4 Date Analyzed: 11/23/2020 13:06

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

Lab File ID (Standard): IN23I02.D Heated Purge: (Y/N) N

Calibration ID: 16044

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		174562	4.26	2065893	7.74	1570516	11.19
UPPER LIMIT		349124	4.76	4131786	8.24	3141032	11.69
LOWER LIMIT		87281	3.76	1032947	7.24	785258	10.69
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-69397/10		161987	4.27	1977703	7.74	1497197	11.19
CCVIS 410-99333/3		177432	4.28	2405431	7.74	1896963	11.19

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.: 410-30627-1

SDG No.:

Sample No.: ICIS 410-69397/4 Date Analyzed: 11/23/2020 13:06

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

Lab File ID (Standard): IN23I02.D Heated Purge: (Y/N) N

Calibration ID: 16044

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		891775	13.07				
UPPER LIMIT		1783550	13.57				
LOWER LIMIT		445888	12.57				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-69397/10		852390	13.07				
CCVIS 410-99333/3		1096331	13.07				

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.: 410-30627-1

SDG No.:

Sample No.: CCVIS 410-99333/3 Date Analyzed: 03/03/2021 19:28

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

Lab File ID (Standard): IM03C31.D Heated Purge: (Y/N) N

Calibration ID: 16044

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		177432	4.28	2405431	7.74	1896963	11.19
UPPER LIMIT		354864	4.78	4810862	8.24	3793926	11.69
LOWER LIMIT		88716	3.78	1202716	7.24	948482	10.69
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-99333/5		161249	4.26	2245786	7.74	1753429	11.19
MB 410-99333/8		179232	4.26	2203806	7.74	1698029	11.19
410-30627-14	HD-QC1-0/1-2	168591	4.26	2179616	7.74	1688476	11.19
410-30627-4	HD-COD-SW-9-0/1-0	180854	4.27	2105307	7.74	1647077	11.19
410-30627-5	HD-COD-SW-13-0/1-0	182612	4.25	2114879	7.74	1654452	11.19
410-30627-6	HD-COD-SW-15-0/1-0	188788	4.28	2117422	7.74	1644384	11.19
410-30627-6 MS	HD-COD-SW-15-0/1-0 MS	193518	4.29	2156375	7.74	1661378	11.19
410-30627-6 MSD	HD-COD-SW-15-0/1-0 MSD	194375	4.28	2131764	7.74	1650321	11.19
410-30627-7	HD-COD-SW-16-0/1-0	192932	4.28	2123637	7.74	1667506	11.19
410-30627-8	HD-COD-SW-17-0/1-0	186459	4.26	2098535	7.74	1644777	11.19
410-30627-9	HD-COD-SW-26-0/1-0	181118	4.26	2044499	7.74	1588889	11.19
410-30627-10	HD-COD-SW-27-0/1-0	171510	4.27	2097826	7.74	1641455	11.19
410-30627-11	HD-COD-SW-28-0/1-0	189916	4.27	2088659	7.74	1630216	11.19
410-30627-12	HD-COD-SW-29-0/1-0	172533	4.27	2014856	7.74	1581773	11.19
410-30627-13	HD-QC1-0/1-1	179372	4.25	2081917	7.74	1617598	11.19

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.: 410-30627-1

SDG No.:

Sample No.: CCVIS 410-99333/3 Date Analyzed: 03/03/2021 19:28

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

Lab File ID (Standard): IM03C31.D Heated Purge: (Y/N) N

Calibration ID: 16044

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		1096331	13.07				
UPPER LIMIT		2192662	13.57				
LOWER LIMIT		548166	12.57				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-99333/5		988861	13.07				
MB 410-99333/8		963700	13.07				
410-30627-14	HD-QC1-0/1-2	958169	13.07				
410-30627-4	HD-COD-SW-9-0/1-0	943157	13.07				
410-30627-5	HD-COD-SW-13-0/1-0	938478	13.07				
410-30627-6	HD-COD-SW-15-0/1-0	932139	13.07				
410-30627-6 MS	HD-COD-SW-15-0/1-0 MS	962745	13.07				
410-30627-6 MSD	HD-COD-SW-15-0/1-0 MSD	945965	13.07				
410-30627-7	HD-COD-SW-16-0/1-0	946853	13.07				
410-30627-8	HD-COD-SW-17-0/1-0	933092	13.07				
410-30627-9	HD-COD-SW-26-0/1-0	907388	13.07				
410-30627-10	HD-COD-SW-27-0/1-0	934420	13.07				
410-30627-11	HD-COD-SW-28-0/1-0	931344	13.07				
410-30627-12	HD-COD-SW-29-0/1-0	897657	13.07				
410-30627-13	HD-QC1-0/1-1	929958	13.07				

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.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-6-0/1-0 Lab Sample ID: 410-30627-1

Matrix: Water Lab File ID: GM03X20.D

Analysis Method: 8260D Date Collected: 02/25/2021 11:05

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 15:30

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.: 99025 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	ND		0.50	0.090
74-87-3	Chloromethane	ND	^c	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.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-6-0/1-0 Lab Sample ID: 410-30627-1

Matrix: Water Lab File ID: GM03X20.D

Analysis Method: 8260D Date Collected: 02/25/2021 11:05

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 15:30

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.: 99025 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)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		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\16334\20210303-23166.b\GM03X20.D
Lims ID: 410-30627-A-1
Client ID: HD-COD-SW-6-0/1-0
Sample Type: Client
Inject. Date: 03-Mar-2021 15:30:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023166-020
Misc. Info.: 410-30627-A-2
Operator ID: SRK36897 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2021 18:00:06 Calib Date: 30-Nov-2020 18:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1646

First Level Reviewer: campbellme Date: 03-Mar-2021 17:59:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.136				ND	
8 Vinyl chloride	62		2.251				ND	
9 Bromomethane	94		2.568				ND	
10 Chloroethane	64		2.660				ND	
19 1,1-Dichloroethene	96		3.507				ND	
21 Acetone	43	3.556	3.544	0.012	98	11838	1.52	
25 Carbon disulfide	76	3.812	3.794	0.018	53	4129	0.0280	7M
29 Methylene Chloride	84	4.166	4.166	0.000	32	1638	0.0358	M
* 30 t-Butyl alcohol-d10 (IS)	65	4.190	4.178	0.012	0	159054	50.0	
33 Methyl tert-butyl ether	73		4.568				ND	
34 trans-1,2-Dichloroethene	96		4.568				ND	
37 1,1-Dichloroethane	63		5.239				ND	
41 2-Butanone (MEK)	43		6.049				ND	
42 cis-1,2-Dichloroethene	96		6.080				ND	
49 Chlorobromomethane	128		6.403				ND	
51 Chloroform	83		6.562				ND	
$ 52 Dibromofluoromethane (Surr)	113	6.787	6.775	0.012	94	461527	9.95	
53 1,1,1-Trichloroethane	97		6.787				ND	
56 Carbon tetrachloride	117		6.988				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.232	7.232	0.000	0	100051	10.1	
60 Benzene	78		7.263				ND	7
61 1,2-Dichloroethane	62		7.336				ND	
* 64 Fluorobenzene (IS)	96	7.671	7.665	0.006	99	1917229	10.0	
68 Trichloroethene	95		8.140				ND	
70 1,2-Dichloropropane	63		8.482				ND	
76 Dichlorobromomethane	83		8.823				ND	
81 cis-1,3-Dichloropropene	75		9.372				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.555				ND	7
$ 83 Toluene-d8 (Surr)	98	9.683	9.683	0.000	94	1865459	10.1	
84 Toluene	92	9.762	9.762	0.000	96	3757	0.0312	
96 trans-1,3-Dichloropropene	75		10.018				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
99 1,1,2-Trichloroethane	97		10.225				ND	
100 Tetrachloroethene	166	10.311	10.311	0.000	84	2218	0.0425	
102 2-Hexanone	43		10.445				ND	7
104 Chlorodibromomethane	129		10.603				ND	
105 Ethylene Dibromide	107		10.707				ND	
* 106 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	85	1388737	10.0	
108 Chlorobenzene	112		11.170				ND	
S 109 Xylenes, Total	106		11.245				ND	7
110 1,1,1,2-Tetrachloroethane	131		11.250				ND	
111 Ethylbenzene	91		11.256				ND	
112 m-Xylene & p-Xylene	106		11.372				ND	7
113 o-Xylene	106		11.701				ND	7
114 Styrene	104		11.713				ND	
115 Bromoform	173		11.871				ND	
$ 119 4-Bromofluorobenzene (Surr)	95	12.140	12.140	0.000	92	689044	9.74	
120 1,1,2,2-Tetrachloroethane	83		12.249				ND	
* 134 1,4-Dichlorobenzene-d4	152	13.017	13.018	-0.001	95	770749	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_29_826ISS_00015 Amount Added: 1.00 Units: uL Run Reagent

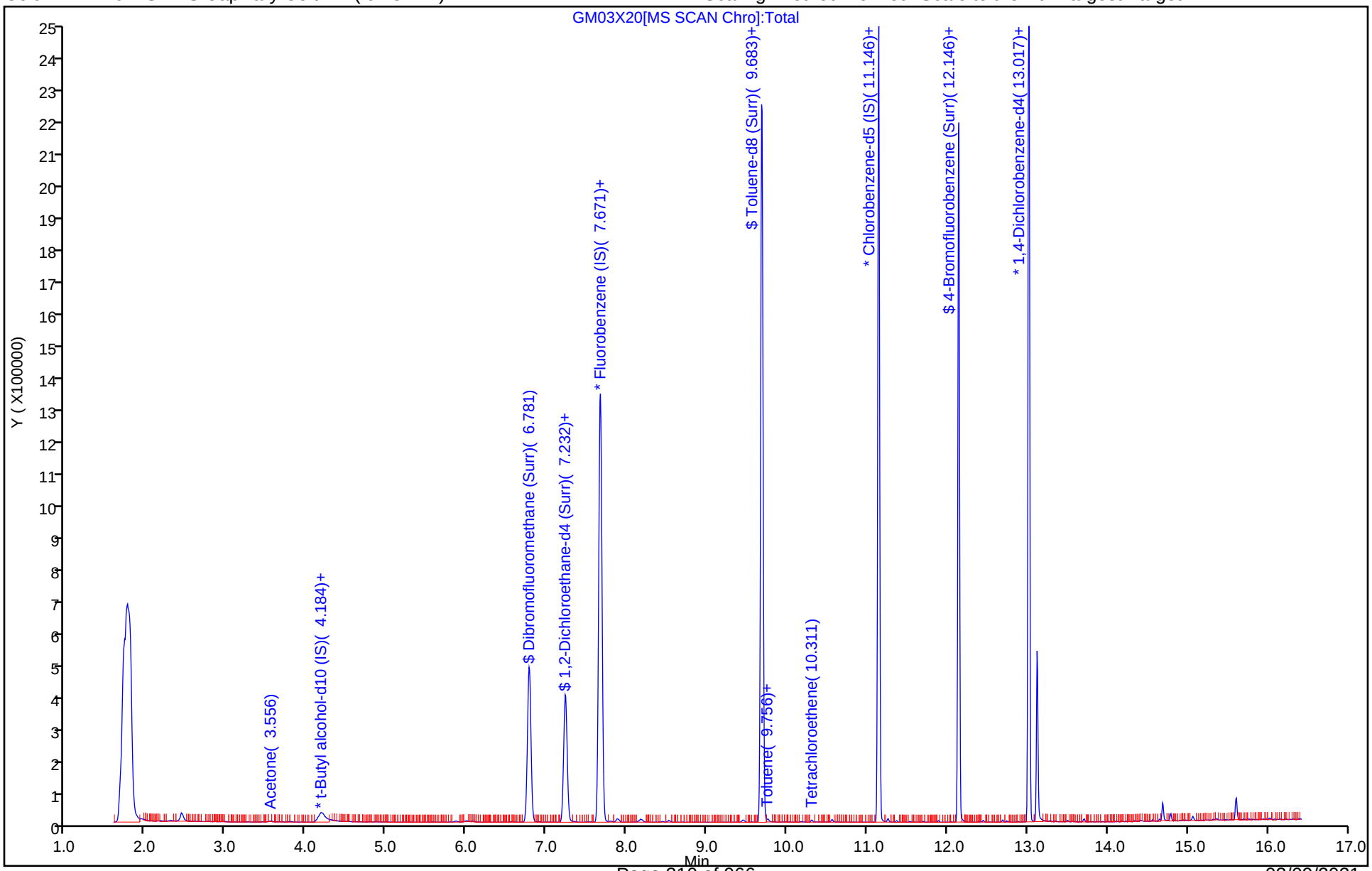
Report Date: 03-Mar-2021 18:00:37 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X20.D

Injection Date:	03-Mar-2021 15:30:30	Instrument ID:	16334	Operator ID:	SRK36897
Lims ID:	410-30627-A-1	Lab Sample ID:	410-30627-1	Worklist Smp#:	20
Client ID:	HD-COD-SW-6-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X20.D
Lims ID: 410-30627-A-1
Client ID: HD-COD-SW-6-0/1-0
Sample Type: Client
Inject. Date: 03-Mar-2021 15:30:30 ALS Bottle#: 20 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023166-020
Misc. Info.: 410-30627-A-2
Operator ID: SRK36897 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2021 18:00:06 Calib Date: 30-Nov-2020 18:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1646

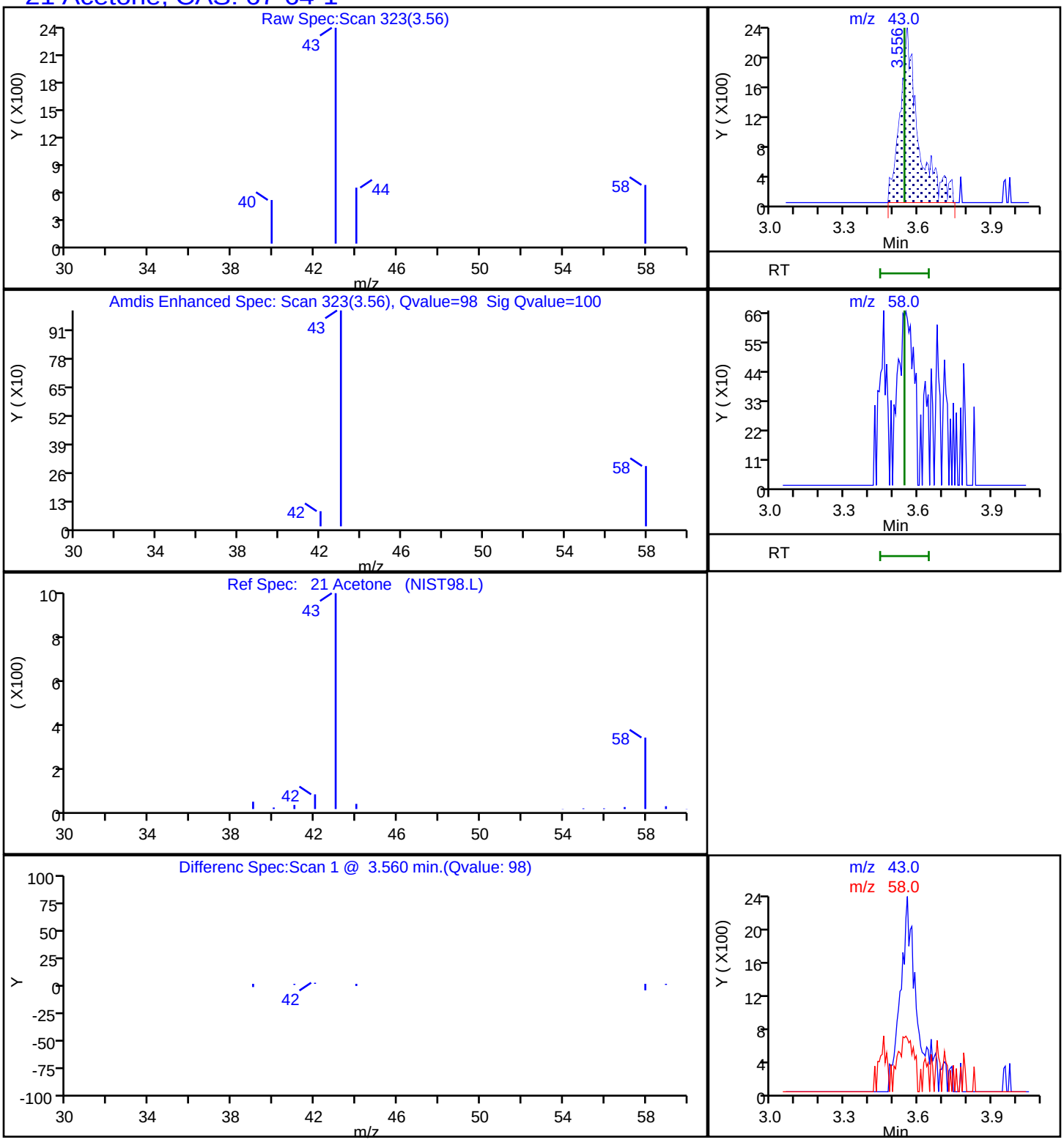
First Level Reviewer: campbellme Date: 03-Mar-2021 17:59:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	9.95	99.46
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	101.34
$ 83 Toluene-d8 (Surr)	10.0	10.1	100.68
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.74	97.40

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X20.D				
Injection Date:	03-Mar-2021 15:30:30	Instrument ID:	16334		
Lims ID:	410-30627-A-1	Lab Sample ID:	410-30627-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

21 Acetone, CAS: 67-64-1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

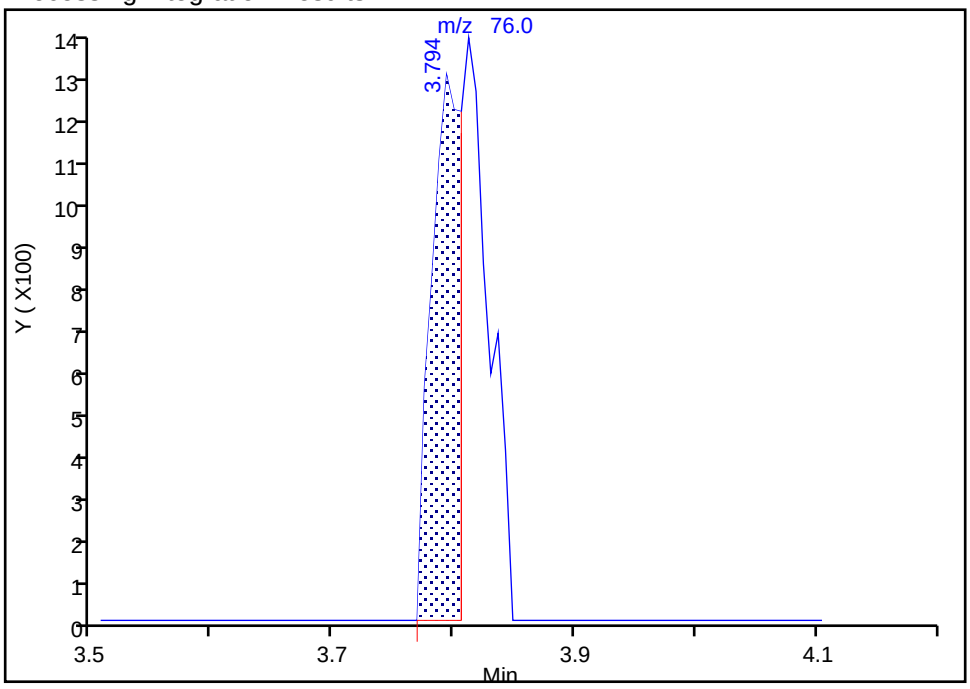
Data File:	\\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X20.D				
Injection Date:	03-Mar-2021 15:30:30	Instrument ID:	16334		
Lims ID:	410-30627-A-1	Lab Sample ID:	410-30627-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

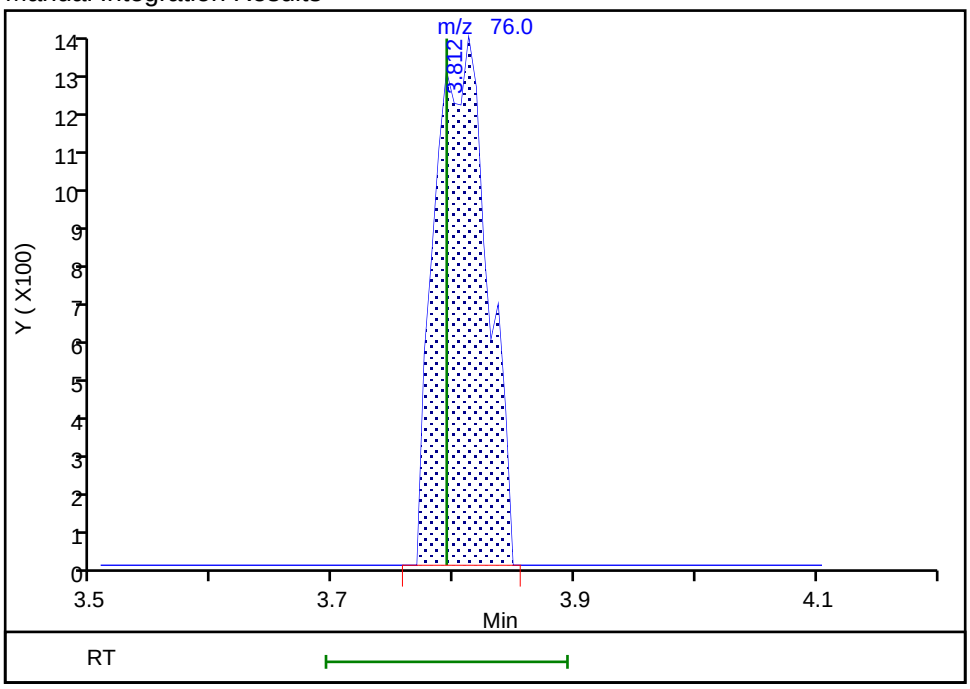
Processing Integration Results

RT: 3.79
Area: 2249
Amount: 0.015277
Amount Units: ug/l



Manual Integration Results

RT: 3.81
Area: 4129
Amount: 0.028048
Amount Units: ug/l



Reviewer: campbellme, 03-Mar-2021 17:58:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

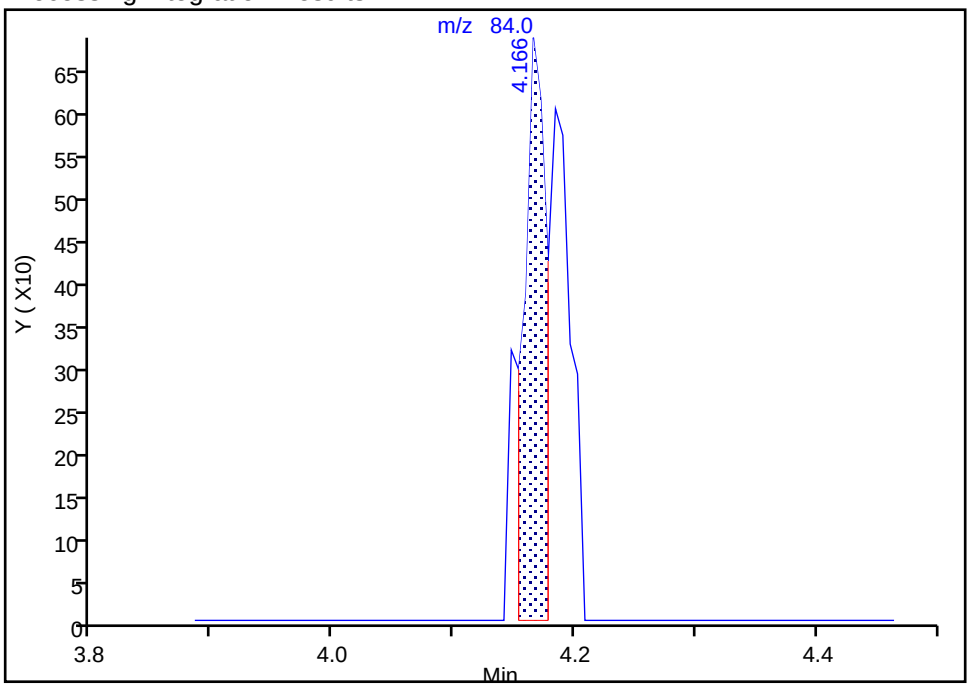
Data File:	\\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X20.D				
Injection Date:	03-Mar-2021 15:30:30	Instrument ID:	16334		
Lims ID:	410-30627-A-1	Lab Sample ID:	410-30627-1		
Client ID:	HD-COD-SW-6-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	20	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

29 Methylene Chloride, CAS: 75-09-2

Signal: 1

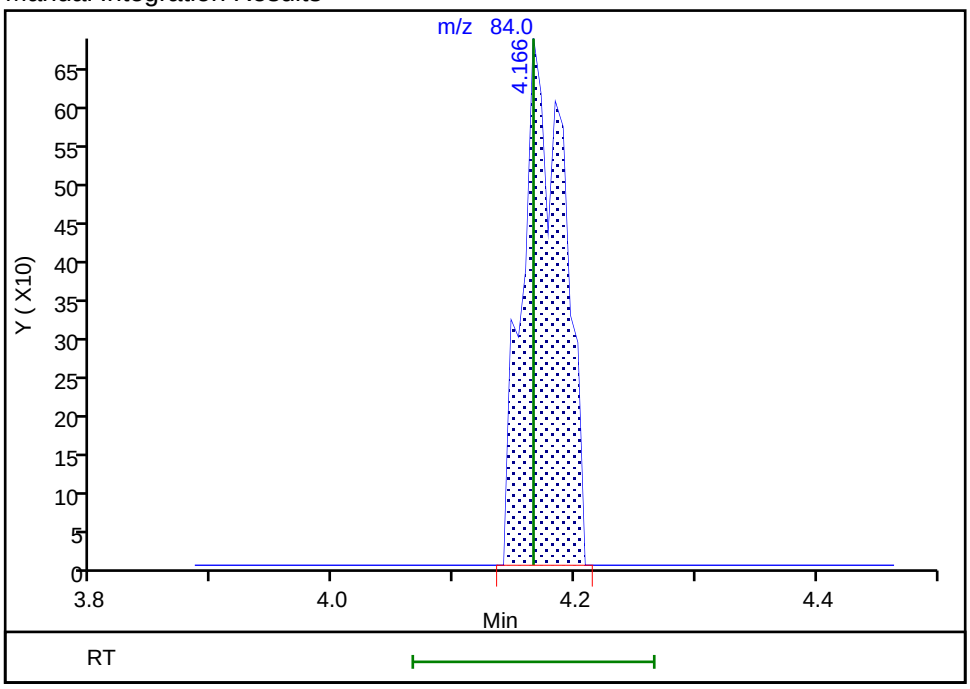
Processing Integration Results

RT: 4.17
Area: 873
Amount: 0.019077
Amount Units: ug/l



Manual Integration Results

RT: 4.17
Area: 1638
Amount: 0.035794
Amount Units: ug/l



Reviewer: campbellme, 03-Mar-2021 17:58:54

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.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-7-0/1-0 Lab Sample ID: 410-30627-2

Matrix: Water Lab File ID: GM03X21.D

Analysis Method: 8260D Date Collected: 02/25/2021 11:45

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 15:52

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.: 99025 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	ND		0.50	0.090
74-87-3	Chloromethane	ND	^c	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.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-7-0/1-0 Lab Sample ID: 410-30627-2

Matrix: Water Lab File ID: GM03X21.D

Analysis Method: 8260D Date Collected: 02/25/2021 11:45

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 15:52

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.: 99025 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)	97		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\16334\20210303-23166.b\GM03X21.D
Lims ID: 410-30627-A-2
Client ID: HD-COD-SW-7-0/1-0
Sample Type: Client
Inject. Date: 03-Mar-2021 15:52:30 ALS Bottle#: 21 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023166-021
Misc. Info.: 410-30627-A-2
Operator ID: SRK36897 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2021 18:00:06 Calib Date: 30-Nov-2020 18:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1646

First Level Reviewer: campbellme Date: 03-Mar-2021 17:59:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.136				ND	
8 Vinyl chloride	62		2.251				ND	
9 Bromomethane	94		2.568				ND	
10 Chloroethane	64		2.660				ND	
19 1,1-Dichloroethene	96		3.507				ND	
21 Acetone	43	3.556	3.544	0.012	79	11739	1.52	
25 Carbon disulfide	76	3.800	3.794	0.006	97	6847	0.0464	M
29 Methylene Chloride	84	4.172	4.166	0.006	33	1966	0.0429	M
* 30 t-Butyl alcohol-d10 (IS)	65	4.190	4.178	0.012	0	157676	50.0	
33 Methyl tert-butyl ether	73		4.568				ND	
34 trans-1,2-Dichloroethene	96		4.568				ND	
37 1,1-Dichloroethane	63		5.239				ND	
41 2-Butanone (MEK)	43		6.049				ND	
42 cis-1,2-Dichloroethene	96	6.074	6.080	-0.006	1	2398	0.0463	a
49 Chlorobromomethane	128		6.403				ND	
51 Chloroform	83	6.567	6.562	0.005	19	2526	0.0307	a
$ 52 Dibromofluoromethane (Surr)	113	6.781	6.775	0.006	94	463196	9.96	
53 1,1,1-Trichloroethane	97		6.787				ND	
56 Carbon tetrachloride	117		6.988				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.238	7.232	0.006	0	99713	10.1	
60 Benzene	78		7.263				ND	
61 1,2-Dichloroethane	62		7.336				ND	
* 64 Fluorobenzene (IS)	96	7.671	7.665	0.006	99	1921480	10.0	
68 Trichloroethene	95		8.140				ND	
70 1,2-Dichloropropane	63		8.482				ND	
76 Dichlorobromomethane	83		8.823				ND	
81 cis-1,3-Dichloropropene	75		9.372				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.555				ND	7
$ 83 Toluene-d8 (Surr)	98	9.689	9.683	0.006	93	1878626	10.1	
84 Toluene	92	9.762	9.762	0.000	96	4940	0.0410	
96 trans-1,3-Dichloropropene	75		10.018				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
99 1,1,2-Trichloroethane	97		10.225				ND	
100 Tetrachloroethene	166	10.311	10.311	0.000	83	2750	0.0526	
102 2-Hexanone	43		10.445				ND	
104 Chlorodibromomethane	129		10.603				ND	
105 Ethylene Dibromide	107		10.707				ND	
* 106 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	86	1389459	10.0	
108 Chlorobenzene	112		11.170				ND	
S 109 Xylenes, Total	106		11.245				ND	7
110 1,1,1,2-Tetrachloroethane	131		11.250				ND	
111 Ethylbenzene	91		11.256				ND	
112 m-Xylene & p-Xylene	106		11.372				ND	7
113 o-Xylene	106		11.701				ND	
114 Styrene	104		11.713				ND	
115 Bromoform	173		11.871				ND	
$ 119 4-Bromofluorobenzene (Surr)	95	12.140	12.140	0.000	91	690084	9.75	
120 1,1,2,2-Tetrachloroethane	83		12.249				ND	
* 134 1,4-Dichlorobenzene-d4	152	13.017	13.018	-0.001	95	772772	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_29_826ISS_00015 Amount Added: 1.00 Units: uL Run Reagent

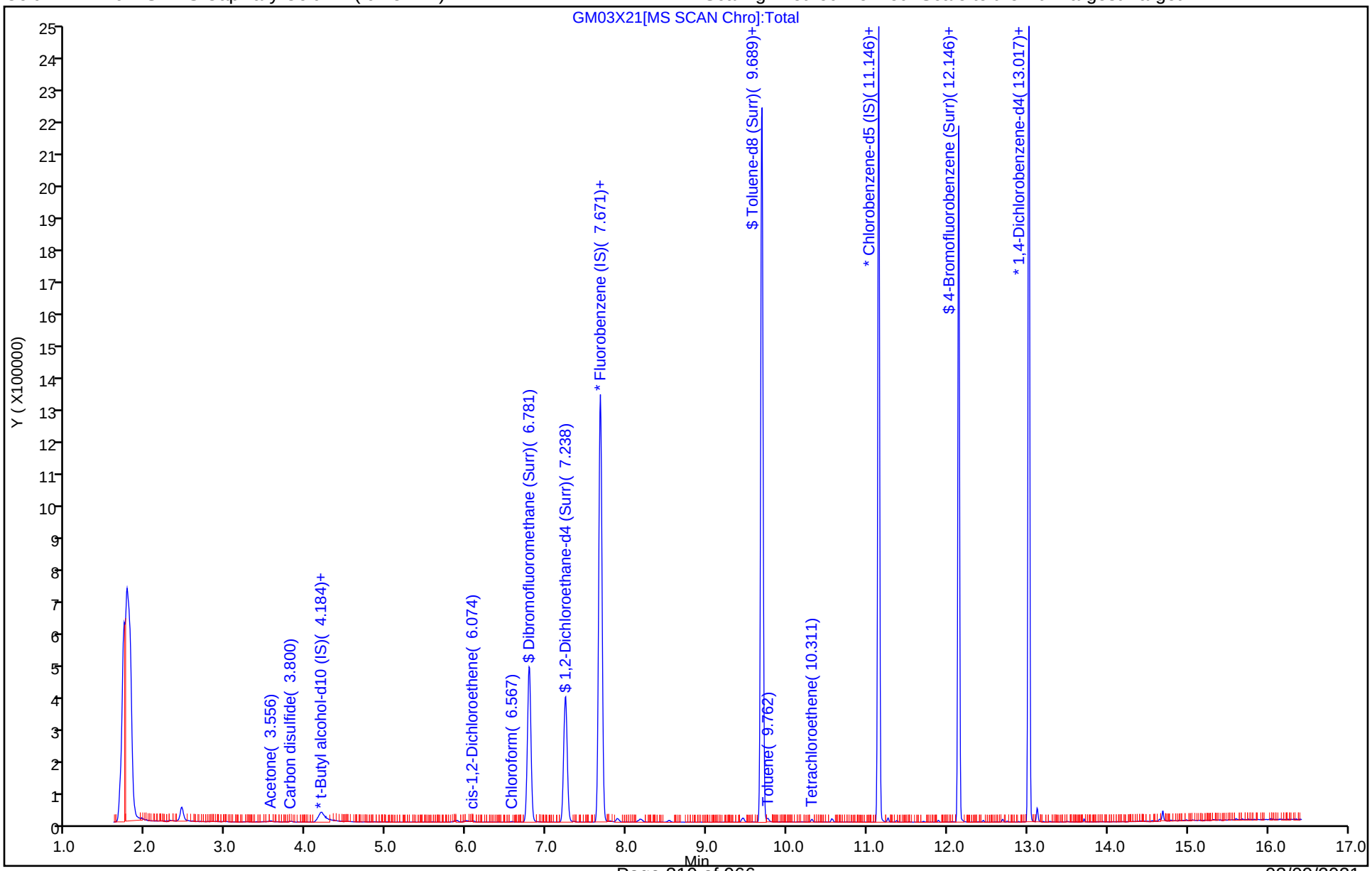
Report Date: 03-Mar-2021 18:00:39 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X21.D

Injection Date:	03-Mar-2021 15:52:30	Instrument ID:	16334	Operator ID:	SRK36897
Lims ID:	410-30627-A-2	Lab Sample ID:	410-30627-2	Worklist Smp#:	21
Client ID:	HD-COD-SW-7-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

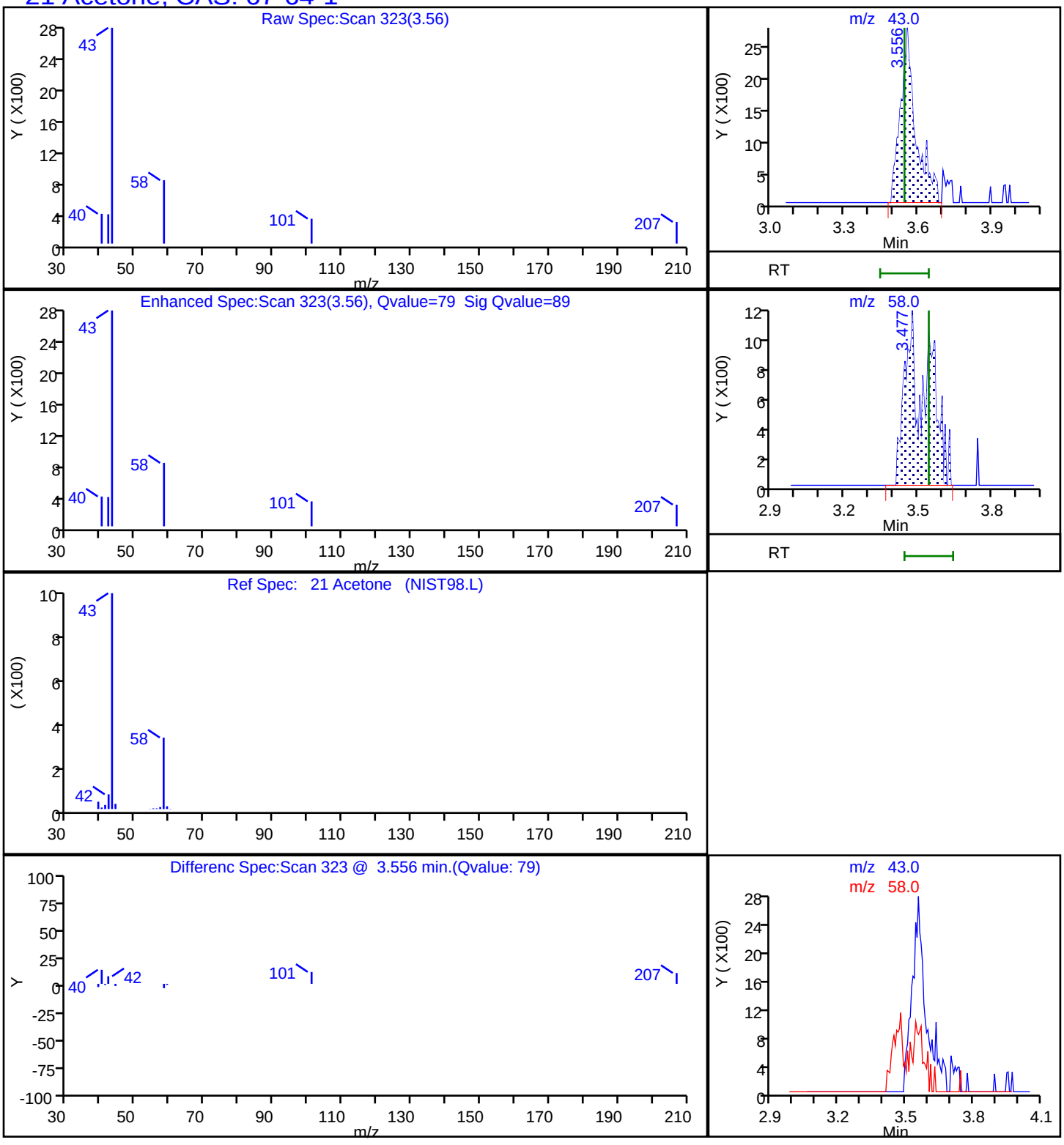
Data File:	\\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X21.D				
Lims ID:	410-30627-A-2				
Client ID:	HD-COD-SW-7-0/1-0				
Sample Type:	Client				
Inject. Date:	03-Mar-2021 15:52:30	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0023166-021				
Misc. Info.:	410-30627-A-2				
Operator ID:	SRK36897	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20210303-23166.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	03-Mar-2021 18:00:06	Calib Date:	30-Nov-2020 18:23:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1646				
First Level Reviewer: campbellme		Date:	03-Mar-2021 17:59:42		

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	9.96	99.60
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	100.77
$ 83 Toluene-d8 (Surr)	10.0	10.1	101.34
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.75	97.50

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X21.D				
Injection Date:	03-Mar-2021 15:52:30	Instrument ID:	16334		
Lims ID:	410-30627-A-2	Lab Sample ID:	410-30627-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

21 Acetone, CAS: 67-64-1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

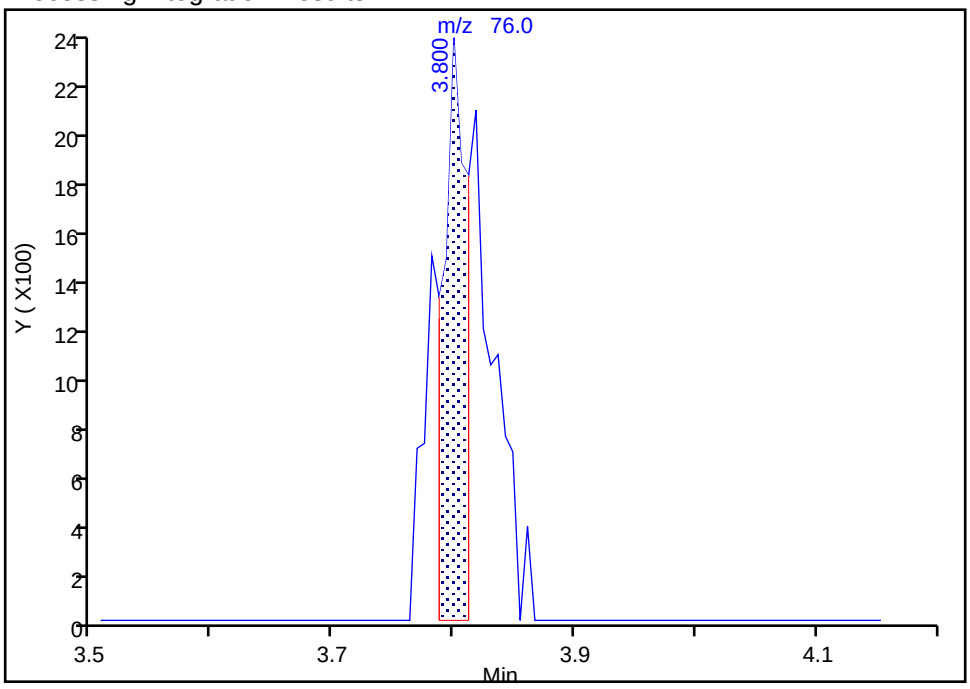
Data File:	\\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X21.D				
Injection Date:	03-Mar-2021 15:52:30	Instrument ID:	16334		
Lims ID:	410-30627-A-2	Lab Sample ID:	410-30627-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

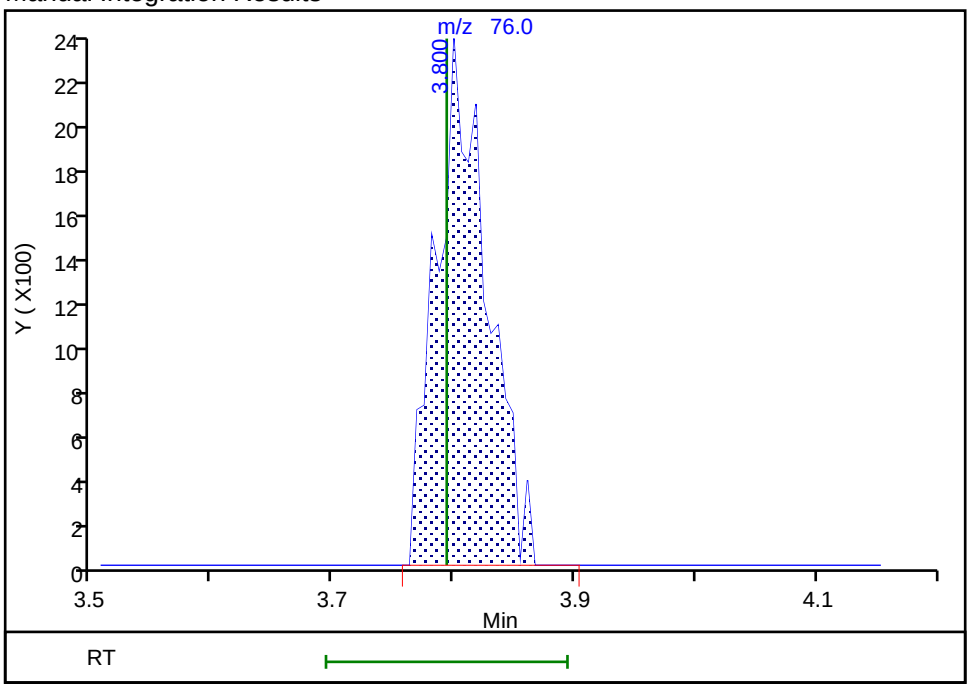
Processing Integration Results

RT: 3.80
Area: 3192
Amount: 0.021635
Amount Units: ug/l



Manual Integration Results

RT: 3.80
Area: 6847
Amount: 0.046409
Amount Units: ug/l



Reviewer: campbellme, 03-Mar-2021 17:59:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

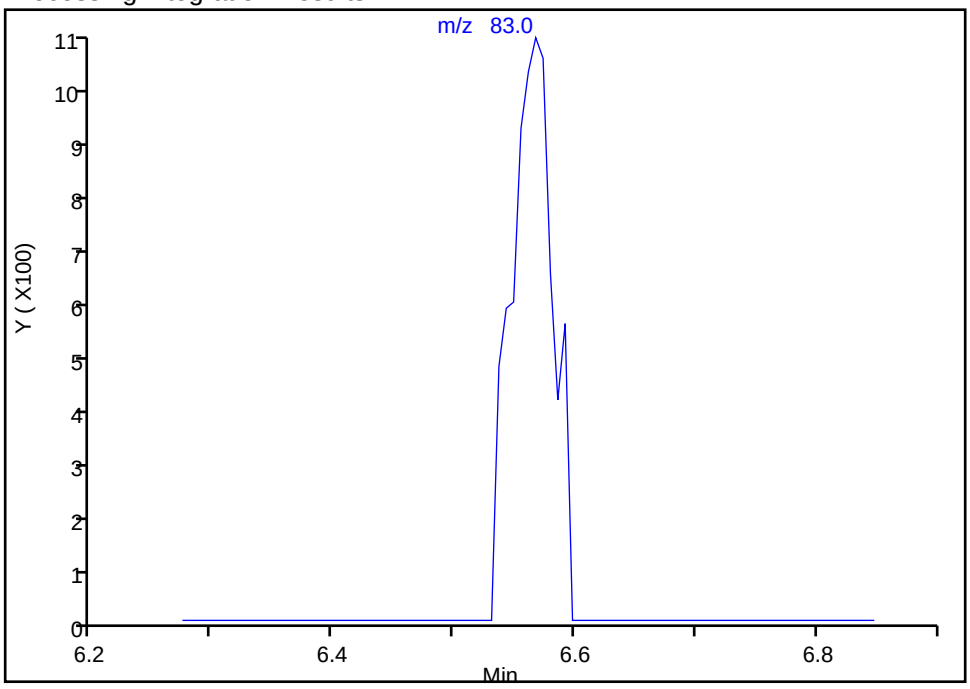
Data File:	\\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X21.D				
Injection Date:	03-Mar-2021 15:52:30	Instrument ID:	16334		
Lims ID:	410-30627-A-2	Lab Sample ID:	410-30627-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

51 Chloroform, CAS: 67-66-3

Signal: 1

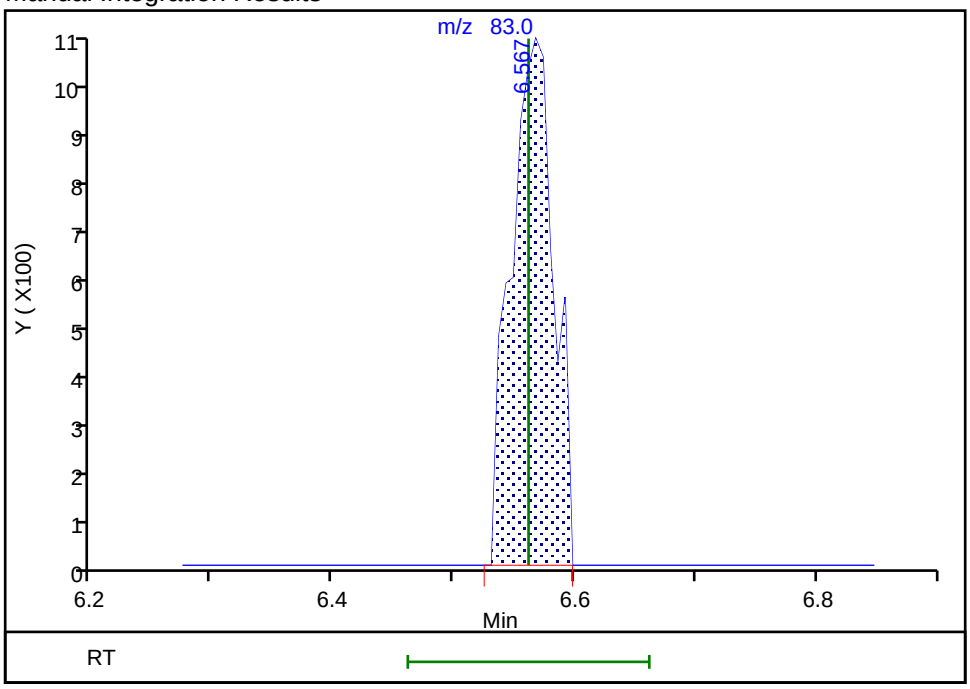
Not Detected
Expected RT: 6.56

Processing Integration Results



Manual Integration Results

RT: 6.57
Area: 2526
Amount: 0.030651
Amount Units: ug/l



Reviewer: campbellme, 03-Mar-2021 17:59:33
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

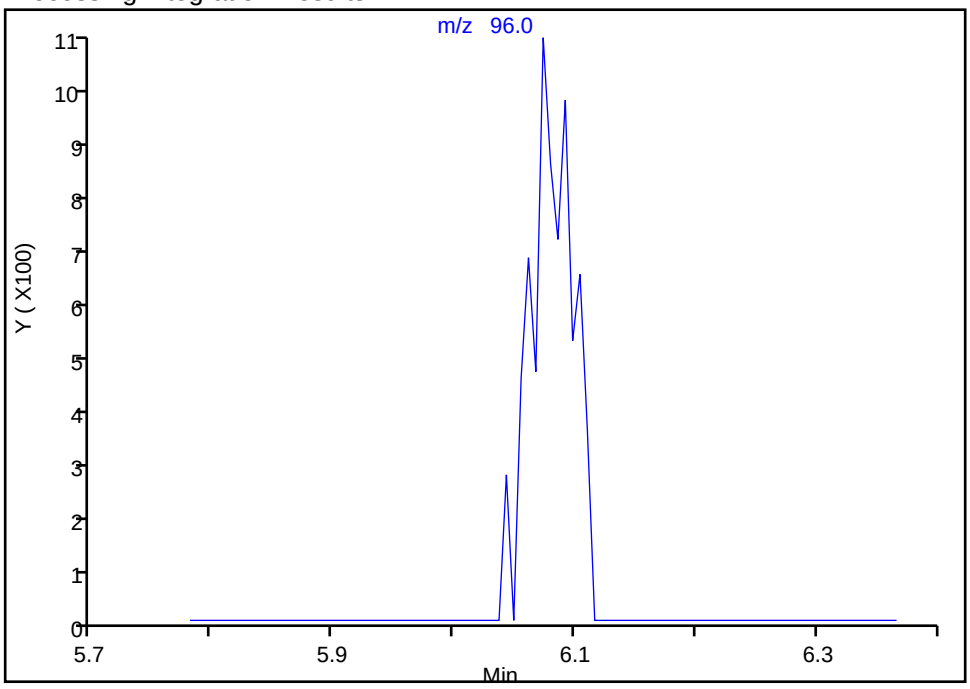
Data File:	\\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X21.D				
Injection Date:	03-Mar-2021 15:52:30	Instrument ID:	16334		
Lims ID:	410-30627-A-2	Lab Sample ID:	410-30627-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

Signal: 1

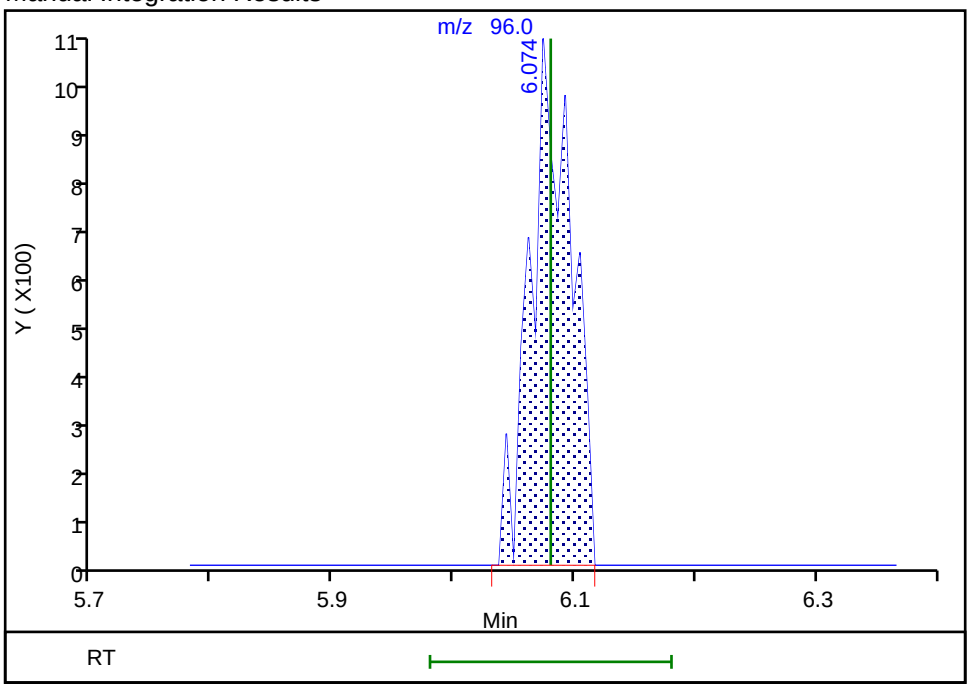
Not Detected
Expected RT: 6.08

Processing Integration Results



Manual Integration Results

RT: 6.07
Area: 2398
Amount: 0.046346
Amount Units: ug/l



Reviewer: campbellme, 03-Mar-2021 17:59:29
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

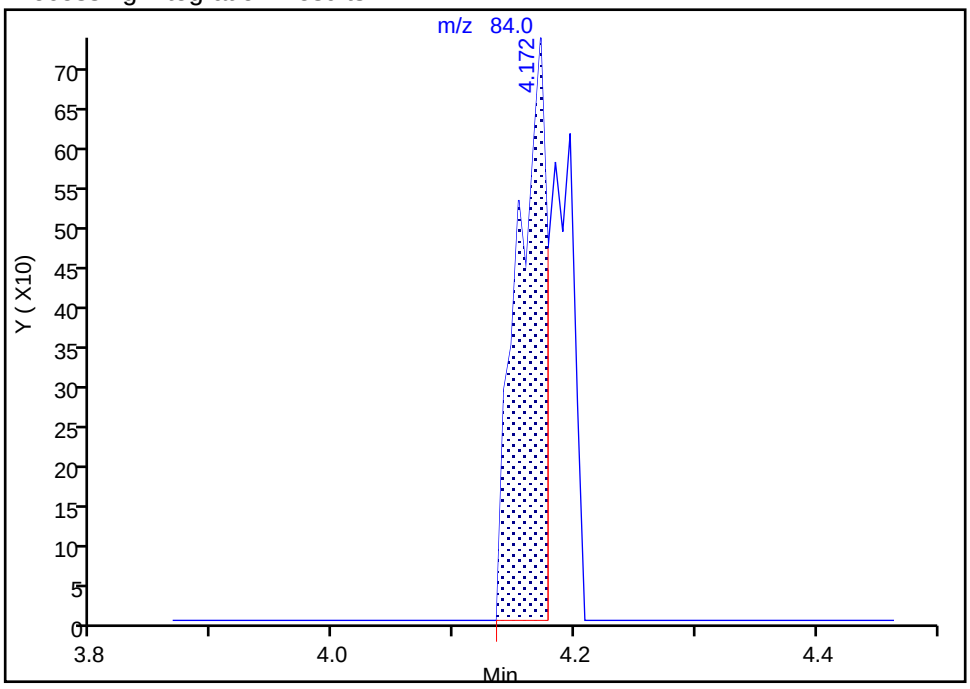
Data File:	\\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X21.D				
Injection Date:	03-Mar-2021 15:52:30	Instrument ID:	16334		
Lims ID:	410-30627-A-2	Lab Sample ID:	410-30627-2		
Client ID:	HD-COD-SW-7-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	21	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

29 Methylene Chloride, CAS: 75-09-2

Signal: 1

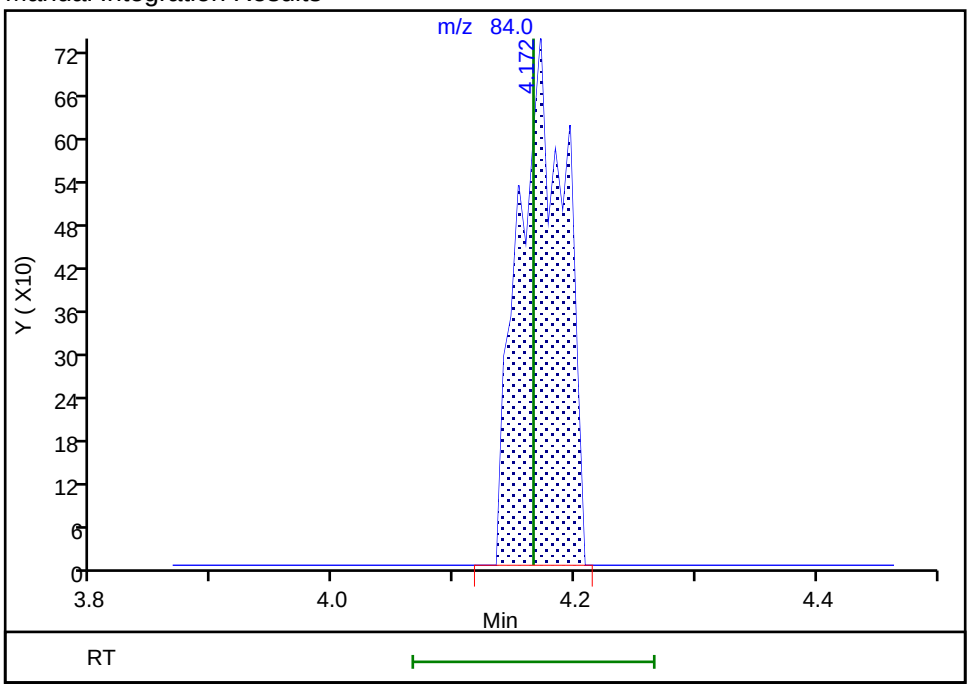
Processing Integration Results

RT: 4.17
Area: 1249
Amount: 0.027233
Amount Units: ug/l



Manual Integration Results

RT: 4.17
Area: 1966
Amount: 0.042866
Amount Units: ug/l



Reviewer: campbellme, 03-Mar-2021 17:59:22

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.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-8-0/1-0 Lab Sample ID: 410-30627-3

Matrix: Water Lab File ID: GM03X22.D

Analysis Method: 8260D Date Collected: 02/25/2021 09:40

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 16:14

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.: 99025 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	1.4	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	^c	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.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-8-0/1-0 Lab Sample ID: 410-30627-3

Matrix: Water Lab File ID: GM03X22.D

Analysis Method: 8260D Date Collected: 02/25/2021 09:40

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 16:14

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.: 99025 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)	97		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\16334\20210303-23166.b\GM03X22.D
Lims ID: 410-30627-A-3
Client ID: HD-COD-SW-8-0/1-0
Sample Type: Client
Inject. Date: 03-Mar-2021 16:14:30 ALS Bottle#: 22 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023166-022
Misc. Info.: 410-30627-A-3
Operator ID: SRK36897 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2021 18:00:06 Calib Date: 30-Nov-2020 18:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1646

First Level Reviewer: campbellme Date: 03-Mar-2021 18:00:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
5 Chloromethane	50		2.136				ND	
8 Vinyl chloride	62		2.251				ND	
9 Bromomethane	94		2.568				ND	
10 Chloroethane	64		2.660				ND	
19 1,1-Dichloroethene	96		3.507				ND	
21 Acetone	43	3.538	3.544	-0.006	84	10884	1.43	
25 Carbon disulfide	76	3.800	3.794	0.006	94	3534	0.0240	7M
29 Methylene Chloride	84	4.153	4.166	-0.013	33	1998	0.0437	M
* 30 t-Butyl alcohol-d10 (IS)	65	4.184	4.178	0.006	0	155516	50.0	
33 Methyl tert-butyl ether	73		4.568				ND	
34 trans-1,2-Dichloroethene	96		4.568				ND	
37 1,1-Dichloroethane	63		5.239				ND	
41 2-Butanone (MEK)	43		6.049				ND	
42 cis-1,2-Dichloroethene	96	6.074	6.080	-0.006	1	2128	0.0412	
49 Chlorobromomethane	128		6.403				ND	
51 Chloroform	83		6.562				ND	
$ 52 Dibromofluoromethane (Surr)	113	6.781	6.775	0.006	94	466645	10.1	
53 1,1,1-Trichloroethane	97		6.787				ND	
56 Carbon tetrachloride	117		6.988				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.232	7.232	0.000	0	99866	10.1	
60 Benzene	78		7.263				ND	
61 1,2-Dichloroethane	62		7.336				ND	
* 64 Fluorobenzene (IS)	96	7.665	7.665	0.000	99	1917371	10.0	
68 Trichloroethene	95	8.147	8.140	0.007	45	1962	0.0394	
70 1,2-Dichloropropane	63		8.482				ND	
76 Dichlorobromomethane	83		8.823				ND	
81 cis-1,3-Dichloropropene	75		9.372				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.555				ND	7
$ 83 Toluene-d8 (Surr)	98	9.683	9.683	0.000	93	1869270	10.2	
84 Toluene	92	9.768	9.762	0.006	96	4455	0.0373	
96 trans-1,3-Dichloropropene	75		10.018				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
99 1,1,2-Trichloroethane	97		10.225				ND	
100 Tetrachloroethene	166	10.305	10.311	-0.006	63	1675	0.0323	
102 2-Hexanone	43		10.445				ND	
104 Chlorodibromomethane	129		10.603				ND	
105 Ethylene Dibromide	107		10.707				ND	
* 106 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	86	1379529	10.0	
108 Chlorobenzene	112		11.170				ND	
S 109 Xylenes, Total	106		11.245				ND	7
110 1,1,1,2-Tetrachloroethane	131		11.250				ND	
111 Ethylbenzene	91		11.256				ND	
112 m-Xylene & p-Xylene	106		11.372				ND	7
113 o-Xylene	106		11.701				ND	
114 Styrene	104		11.713				ND	
115 Bromoform	173		11.871				ND	
$ 119 4-Bromofluorobenzene (Surr)	95	12.140	12.140	0.000	92	681896	9.70	
120 1,1,2,2-Tetrachloroethane	83		12.249				ND	
* 134 1,4-Dichlorobenzene-d4	152	13.018	13.018	0.000	95	770528	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_29_826ISS_00015 Amount Added: 1.00 Units: uL Run Reagent

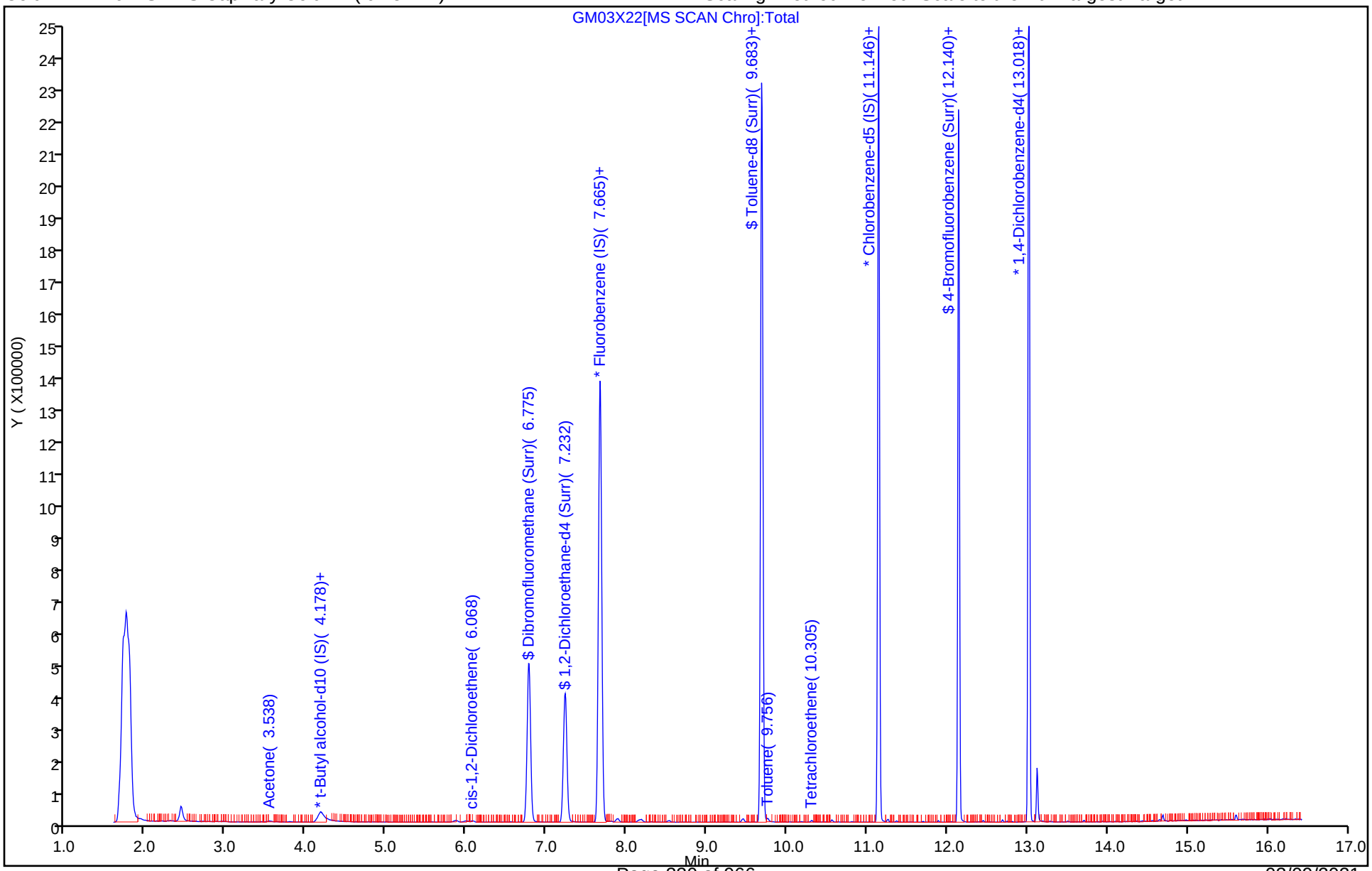
Report Date: 03-Mar-2021 18:00:41 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X22.D

Injection Date:	03-Mar-2021 16:14:30	Instrument ID:	16334	Operator ID:	SRK36897
Lims ID:	410-30627-A-3	Lab Sample ID:	410-30627-3	Worklist Smp#:	22
Client ID:	HD-COD-SW-8-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X22.D				
Lims ID:	410-30627-A-3				
Client ID:	HD-COD-SW-8-0/1-0				
Sample Type:	Client				
Inject. Date:	03-Mar-2021 16:14:30	ALS Bottle#:	22	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0023166-022				
Misc. Info.:	410-30627-A-3				
Operator ID:	SRK36897	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20210303-23166.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	03-Mar-2021 18:00:06	Calib Date:	30-Nov-2020 18:23:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1646				

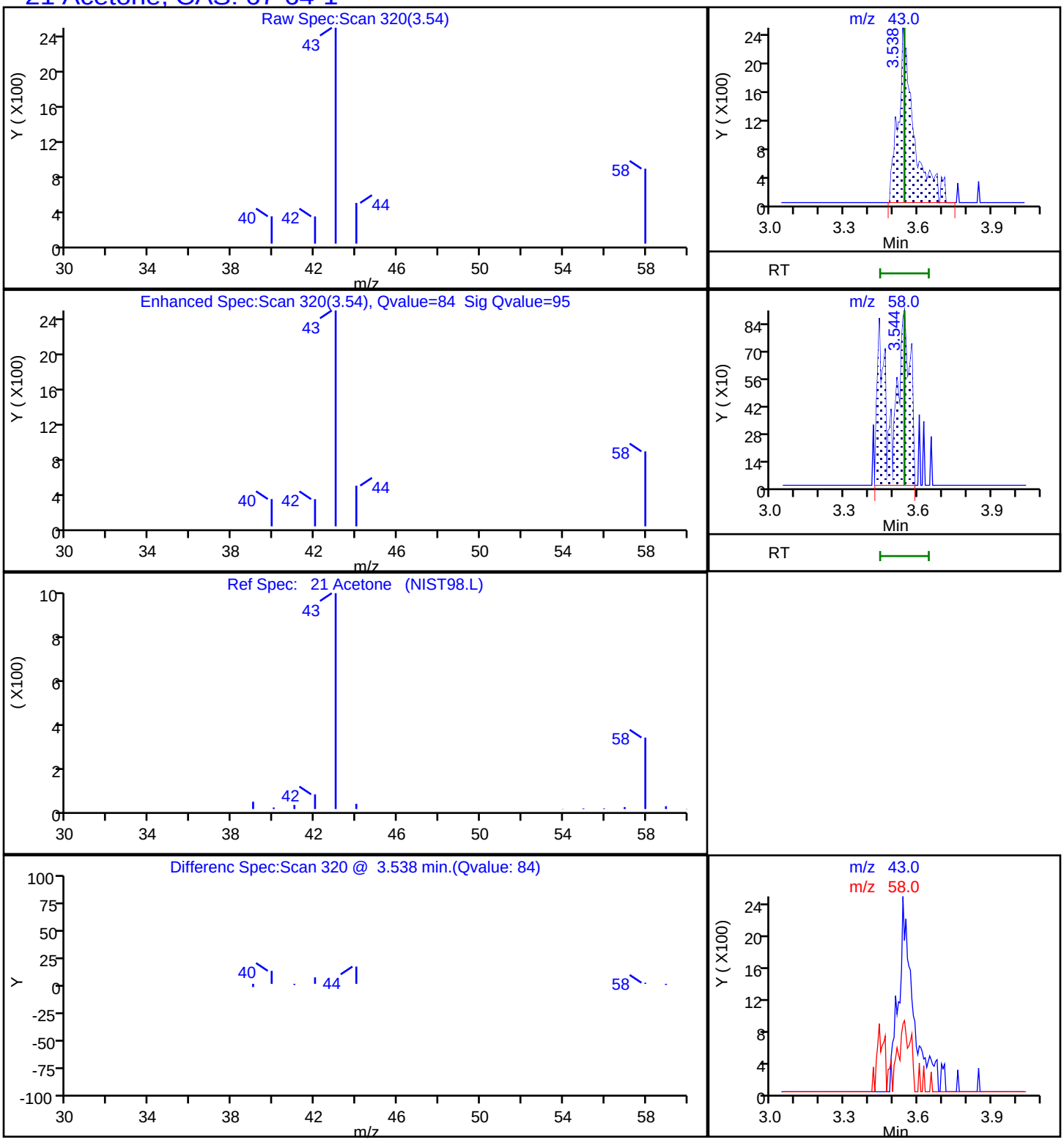
First Level Reviewer: campbellme Date: 03-Mar-2021 18:00:06

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.1	100.56
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	101.15
$ 83 Toluene-d8 (Surr)	10.0	10.2	101.56
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.70	97.03

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X22.D				
Injection Date:	03-Mar-2021 16:14:30	Instrument ID:	16334		
Lims ID:	410-30627-A-3	Lab Sample ID:	410-30627-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	22	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

21 Acetone, CAS: 67-64-1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

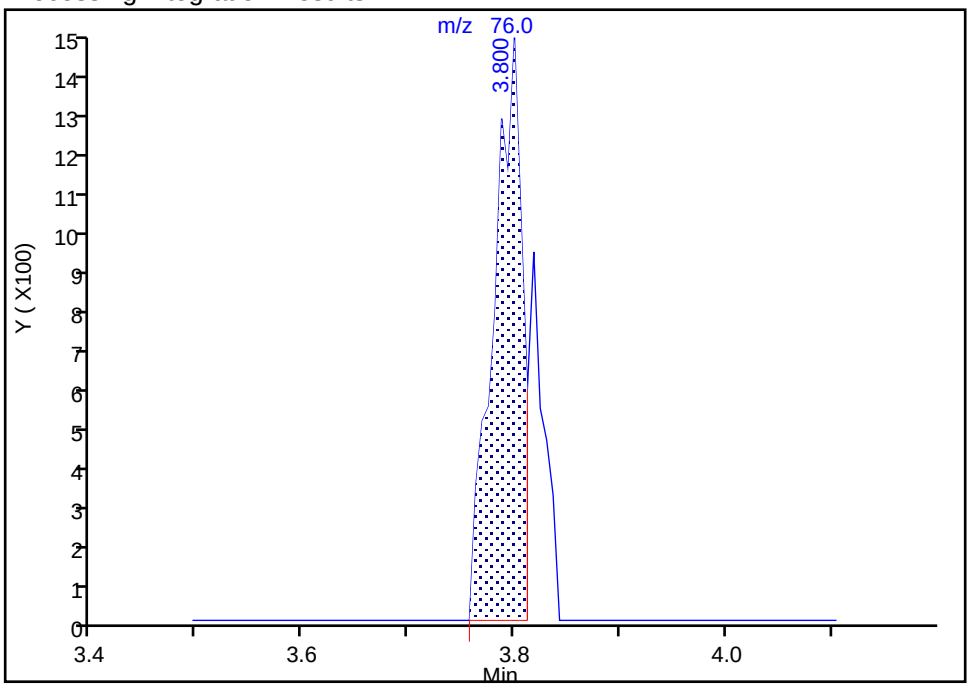
Data File:	\\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X22.D				
Injection Date:	03-Mar-2021 16:14:30	Instrument ID:	16334		
Lims ID:	410-30627-A-3	Lab Sample ID:	410-30627-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	22	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

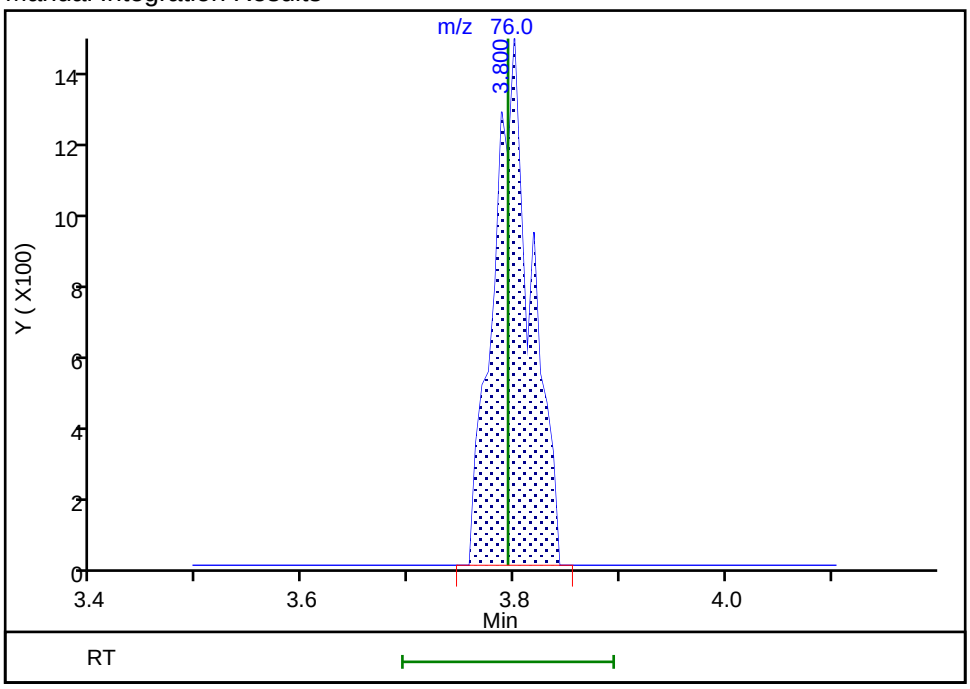
Processing Integration Results

RT: 3.80
Area: 2734
Amount: 0.018571
Amount Units: ug/l



Manual Integration Results

RT: 3.80
Area: 3534
Amount: 0.024005
Amount Units: ug/l



Reviewer: campbellme, 03-Mar-2021 17:59:52

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

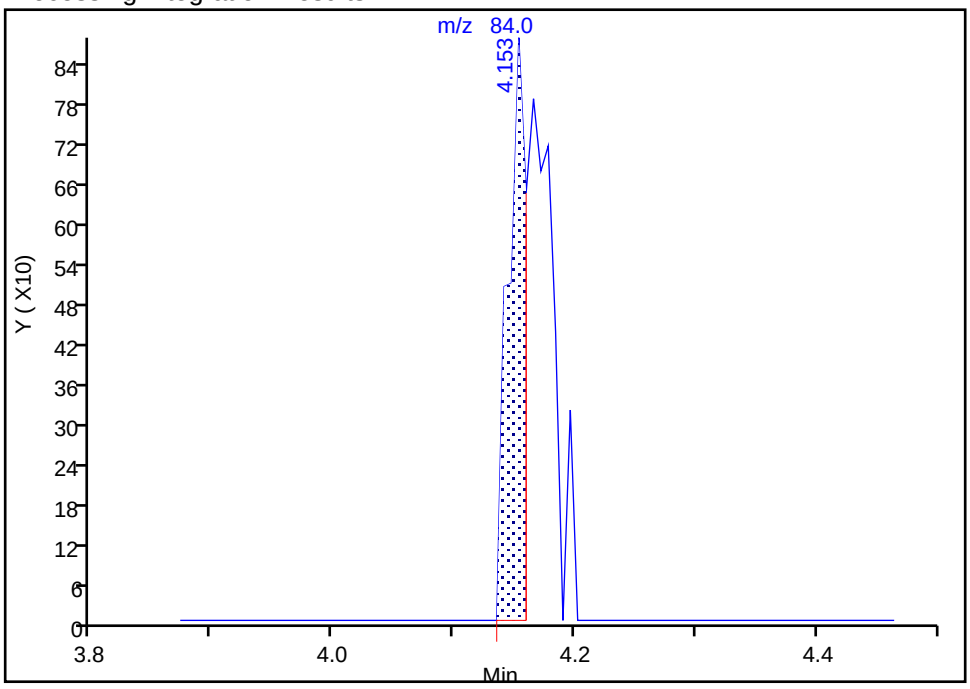
Data File:	\\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X22.D				
Injection Date:	03-Mar-2021 16:14:30	Instrument ID:	16334		
Lims ID:	410-30627-A-3	Lab Sample ID:	410-30627-3		
Client ID:	HD-COD-SW-8-0/1-0				
Operator ID:	SRK36897	ALS Bottle#:	22	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

29 Methylene Chloride, CAS: 75-09-2

Signal: 1

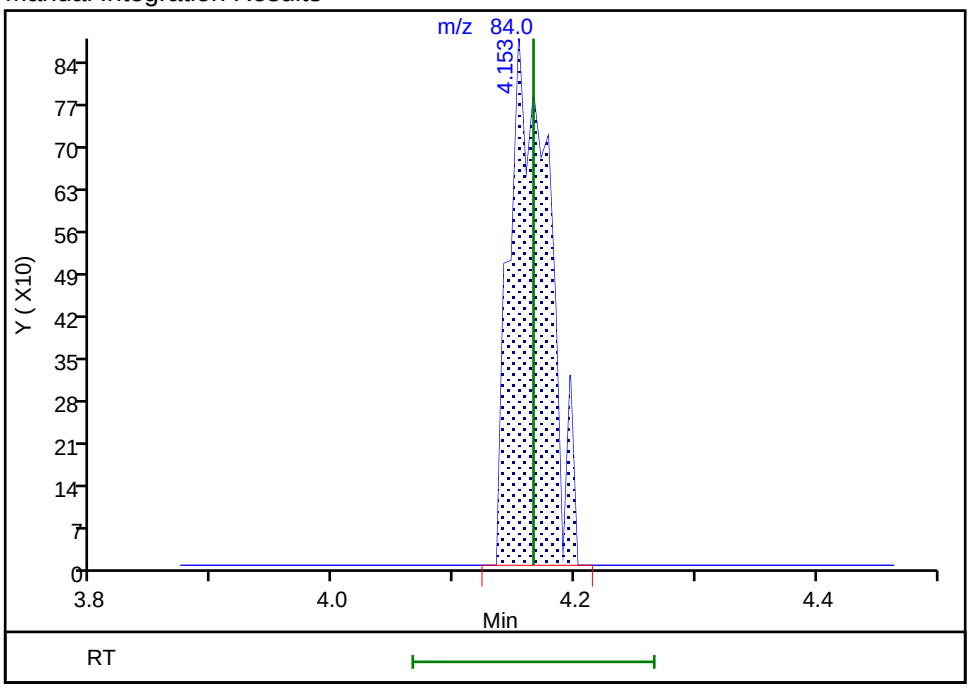
Processing Integration Results

RT: 4.15
Area: 926
Amount: 0.020234
Amount Units: ug/l



Manual Integration Results

RT: 4.15
Area: 1998
Amount: 0.043657
Amount Units: ug/l



Reviewer: campbellme, 03-Mar-2021 17:59:54
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.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-9-0/1-0 Lab Sample ID: 410-30627-4

Matrix: Water Lab File ID: IM03S35.D

Analysis Method: 8260D Date Collected: 02/25/2021 12:45

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 23:02

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.: 99333 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	^c	5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70
67-64-1	Acetone	1.9	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	0.064	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	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	0.091	J	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	ND		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-9-0/1-0 Lab Sample ID: 410-30627-4

Matrix: Water Lab File ID: IM03S35.D

Analysis Method: 8260D Date Collected: 02/25/2021 12:45

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 23:02

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.: 99333 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)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		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\19930\20210303-23228.b\IM03S35.D
Lims ID: 410-30627-A-4
Client ID: HD-COD-SW-9-0/1-0
Sample Type: Client
Inject. Date: 03-Mar-2021 23:02:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-013
Misc. Info.: 410-30627-A-4
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

First Level Reviewer: knouses Date: 04-Mar-2021 12:37:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.190	2.184	0.006	86	4668	0.0535	M
5 Vinyl chloride	62		2.306				ND	
7 Bromomethane	94		2.629				ND	
8 Chloroethane	64		2.709				ND	
14 1,1-Dichloroethene	96		3.574				ND	
15 Acetone	43	3.611	3.605	0.006	99	18795	1.91	
19 Carbon disulfide	76	3.879	3.885	-0.006	95	10401	0.0639	
23 Methylene Chloride	84	4.257	4.251	0.006	36	5644	0.0907	
* 24 t-Butyl alcohol-d10 (IS)	65	4.269	4.275	-0.006	0	180854	50.0	
27 Methyl tert-butyl ether	73		4.659				ND	
28 trans-1,2-Dichloroethene	96		4.672				ND	
31 1,1-Dichloroethane	63		5.330				ND	
36 2-Butanone (MEK)	43		6.122				ND	7
37 cis-1,2-Dichloroethene	96	6.171	6.159	0.012	75	2763	0.0384	
43 Chlorobromomethane	128		6.488				ND	
45 Chloroform	83	6.647	6.641	0.006	90	8691	0.0787	
$ 46 Dibromofluoromethane (Surr)	113	6.854	6.854	0.000	94	537800	10.3	
47 1,1,1-Trichloroethane	97		6.866				ND	
50 Carbon tetrachloride	117		7.080				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.311	7.305	0.006	0	106029	10.1	
54 Benzene	78	7.330	7.336	-0.006	82	4006	0.0150	7M
56 1,2-Dichloroethane	62		7.409				ND	
* 58 Fluorobenzene (IS)	96	7.744	7.738	0.006	99	2105307	10.0	
61 Trichloroethene	95	8.214	8.214	0.000	77	3454	0.0495	M
63 1,2-Dichloropropane	63		8.549				ND	
68 Dichlorobromomethane	83	8.903	8.890	0.012	1	1005	0.0128	7M
73 cis-1,3-Dichloropropene	75		9.433				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.597				ND	7
$ 75 Toluene-d8 (Surr)	98	9.744	9.738	0.006	93	2102879	9.78	
76 Toluene	92	9.823	9.817	0.006	99	7664	0.0427	
78 trans-1,3-Dichloropropene	75		10.067				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
80 1,1,2-Trichloroethane	97		10.274				ND	
81 Tetrachloroethene	166	10.366	10.366	0.000	95	6617	0.0761	
83 2-Hexanone	43		10.481				ND	
85 Chlorodibromomethane	129		10.652				ND	
86 Ethylene Dibromide	107		10.762				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	0.000	85	1647077	10.0	
90 Chlorobenzene	112		11.213				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.298				ND	
92 Ethylbenzene	91		11.298				ND	7
93 m-Xylene & p-Xylene	106		11.414				ND	7
94 o-Xylene	106		11.743				ND	7
95 Styrene	104	11.762	11.756	0.006	1	907	0.004258	7M
96 Bromoform	173		11.914				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.188	12.182	0.006	95	771897	9.69	
101 1,1,2,2-Tetrachloroethane	83		12.286				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	94	943157	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_31_826ISS_00004 Amount Added: 5.00 Units: uL Run Reagent

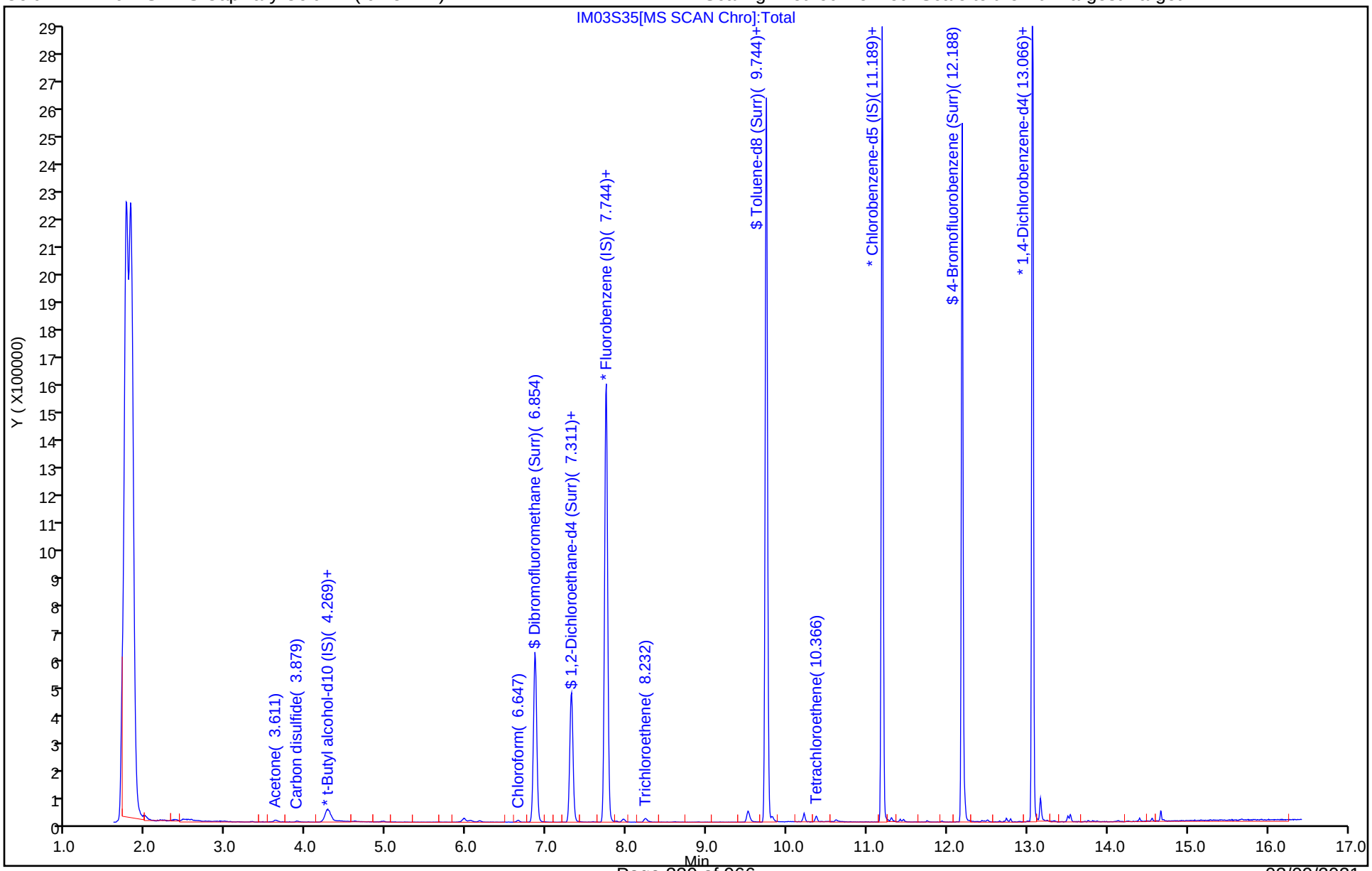
Report Date: 04-Mar-2021 13:06:57 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S35.D

Injection Date:	03-Mar-2021 23:02:30	Instrument ID:	19930	Operator ID:	MEC29284
Lims ID:	410-30627-A-4	Lab Sample ID:	410-30627-4	Worklist Smp#:	13
Client ID:	HD-COD-SW-9-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S35.D
Lims ID: 410-30627-A-4
Client ID: HD-COD-SW-9-0/1-0
Sample Type: Client
Inject. Date: 03-Mar-2021 23:02:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-013
Misc. Info.: 410-30627-A-4
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

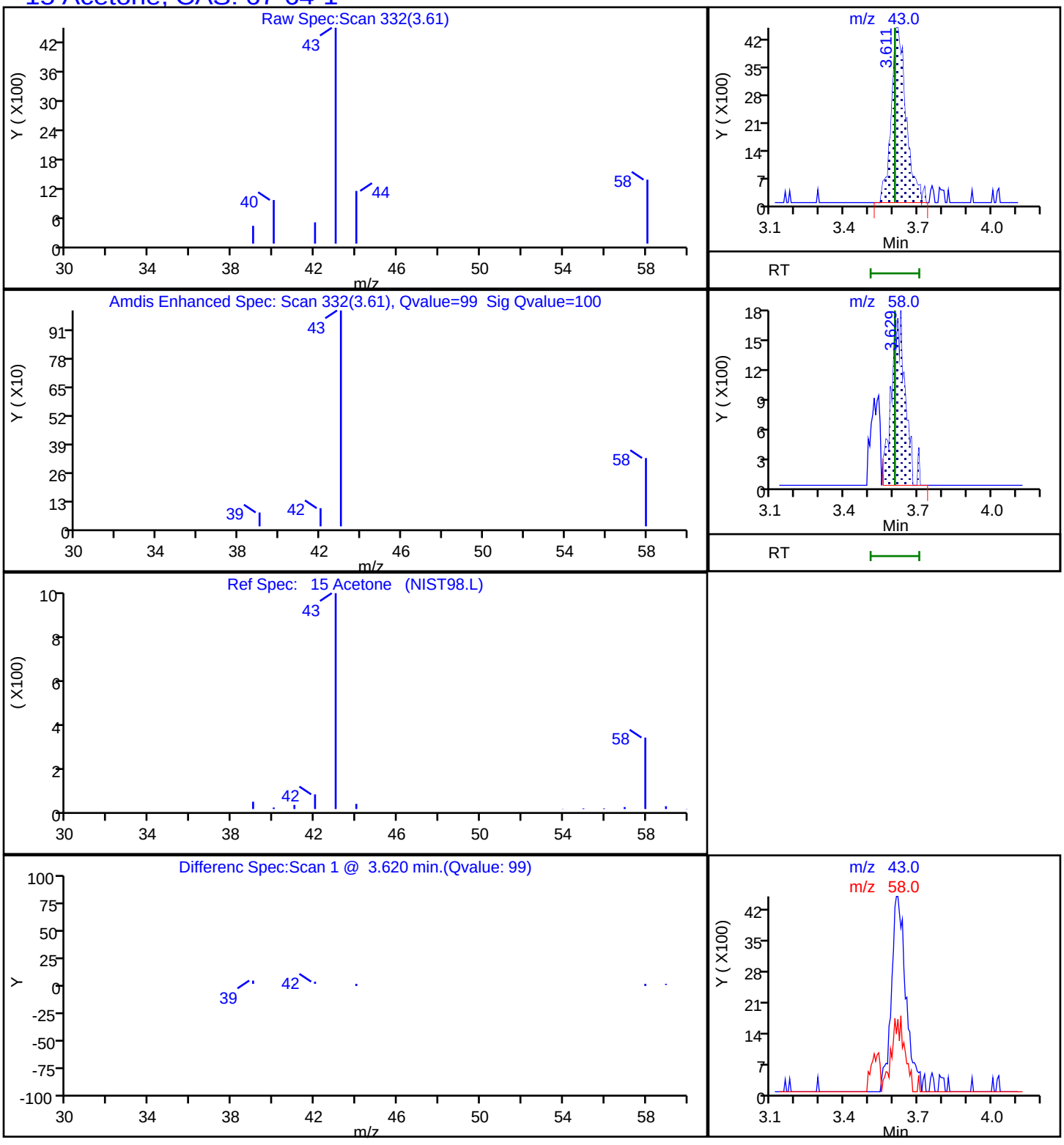
First Level Reviewer: knouses Date: 04-Mar-2021 12:37:32

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.3	103.46
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	101.17
$ 75 Toluene-d8 (Surr)	10.0	9.78	97.76
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.69	96.90

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S35.D				
Injection Date:	03-Mar-2021 23:02:30	Instrument ID:	19930		
Lims ID:	410-30627-A-4	Lab Sample ID:	410-30627-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

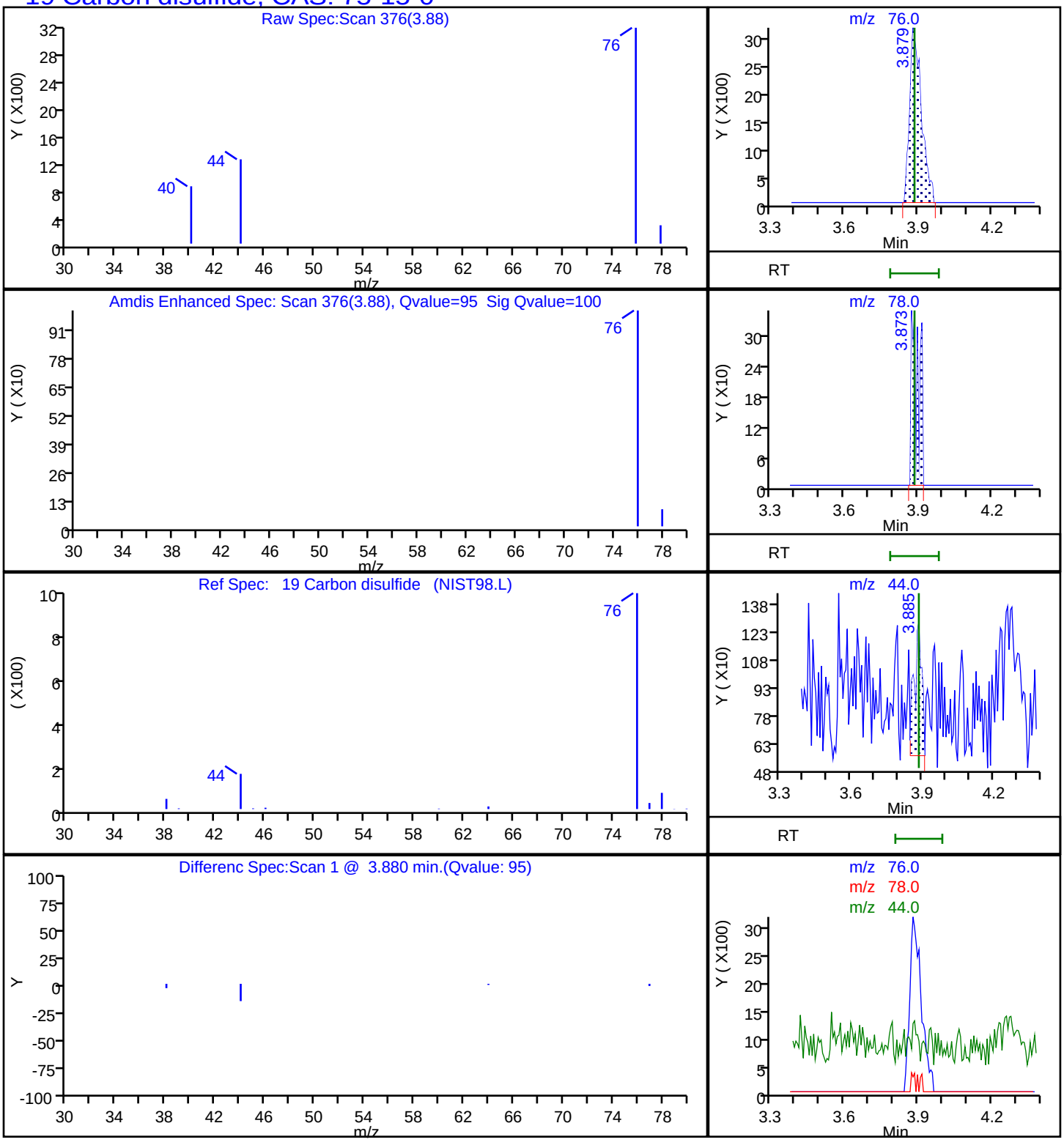
15 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S35.D				
Injection Date:	03-Mar-2021 23:02:30	Instrument ID:	19930		
Lims ID:	410-30627-A-4	Lab Sample ID:	410-30627-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

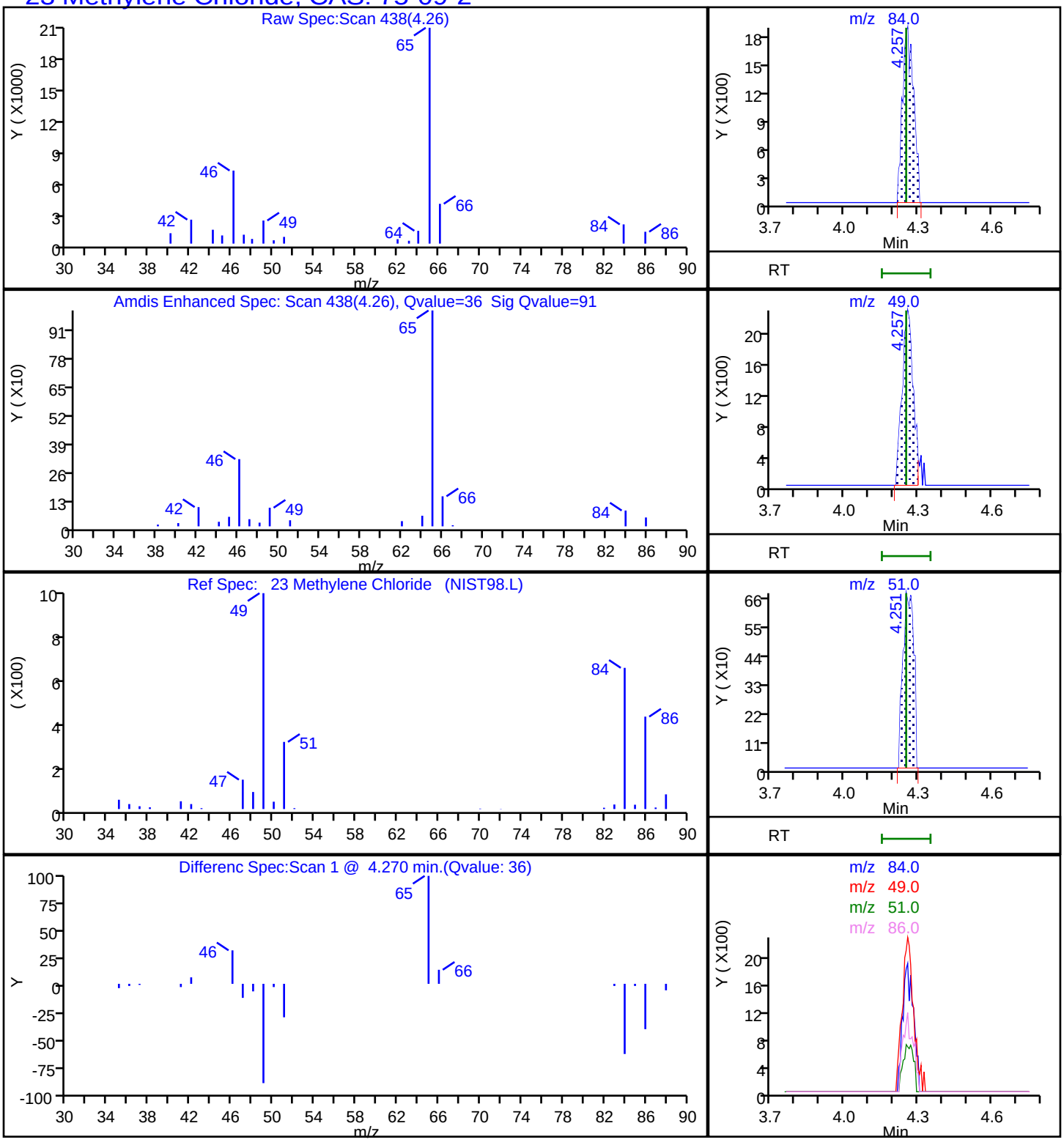
19 Carbon disulfide, CAS: 75-15-0



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S35.D				
Injection Date:	03-Mar-2021 23:02:30	Instrument ID:	19930		
Lims ID:	410-30627-A-4	Lab Sample ID:	410-30627-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

23 Methylene Chloride, CAS: 75-09-2



Report Date: 04-Mar-2021 13:06:57 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S35.D

Injection Date: 03-Mar-2021 23:02:30 Instrument ID: 19930

Lims ID: 410-30627-A-4 Lab Sample ID: 410-30627-4

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

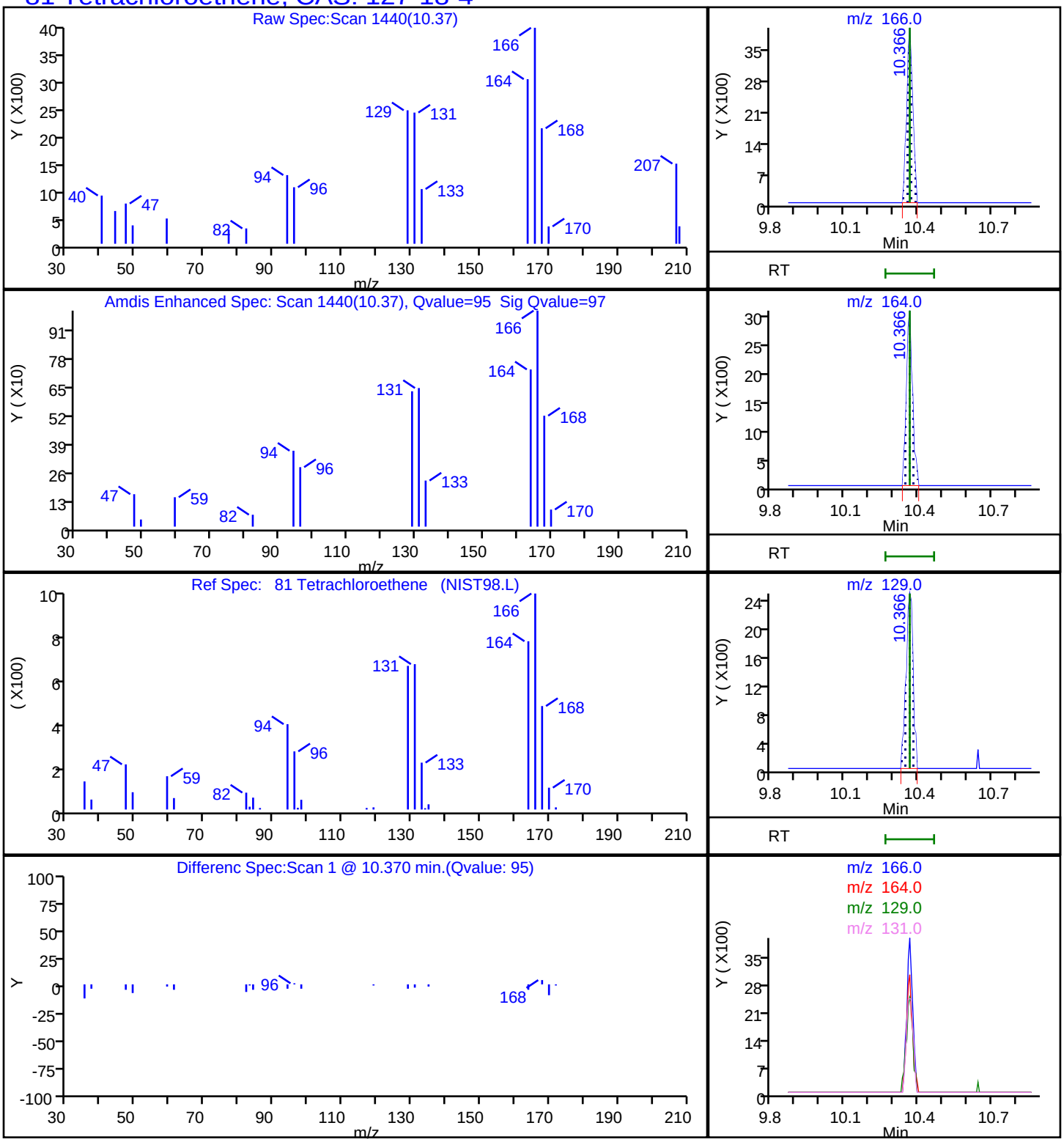
Operator ID: MEC29284 ALS Bottle#: 12 Worklist Smp#: 13

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D

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

81 Tetrachloroethene, CAS: 127-18-4



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

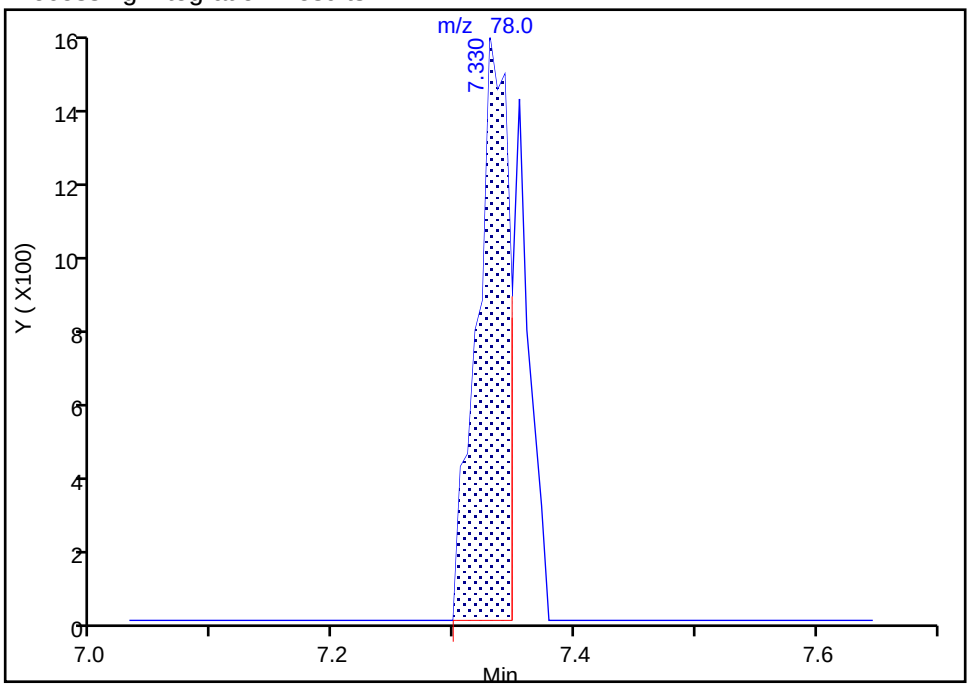
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S35.D				
Injection Date:	03-Mar-2021 23:02:30	Instrument ID:	19930		
Lims ID:	410-30627-A-4	Lab Sample ID:	410-30627-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

54 Benzene, CAS: 71-43-2

Signal: 1

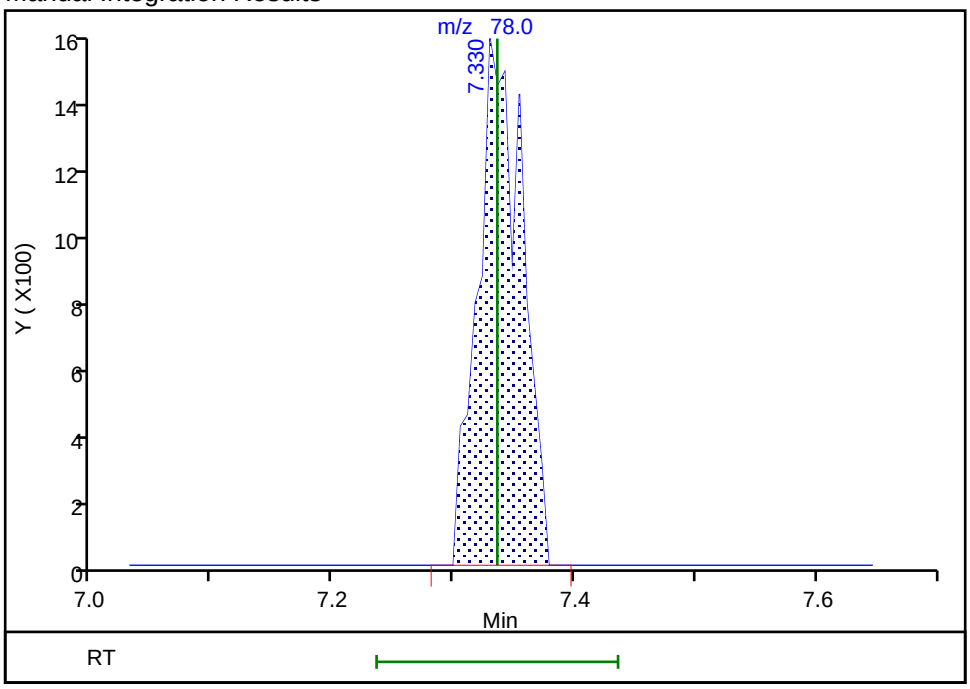
Processing Integration Results

RT: 7.33
Area: 2888
Amount: 0.010827
Amount Units: ug/l



Manual Integration Results

RT: 7.33
Area: 4006
Amount: 0.015018
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:34:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

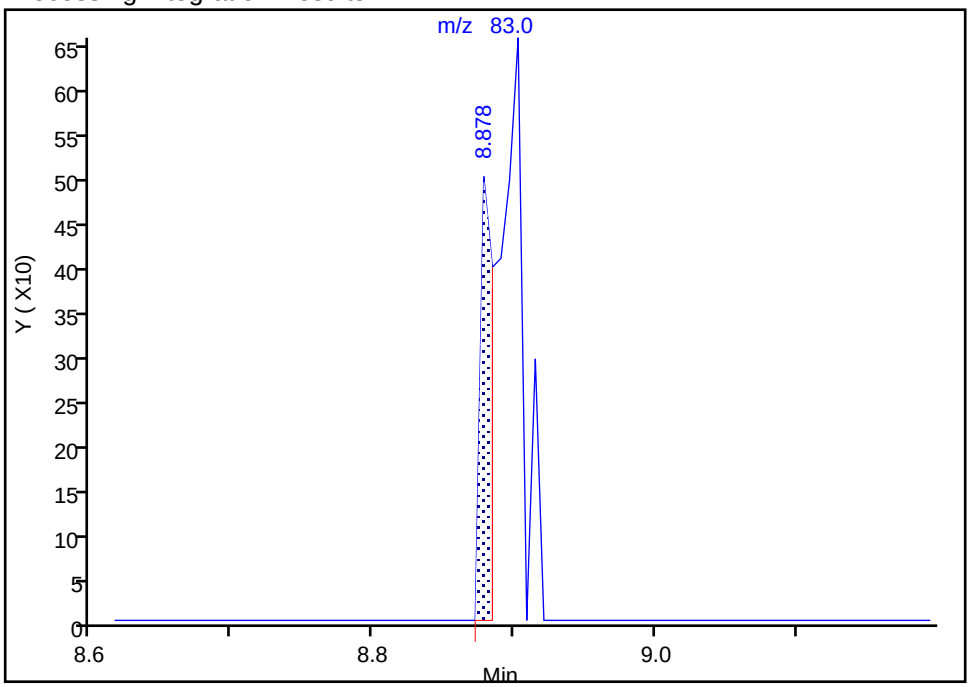
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S35.D				
Injection Date:	03-Mar-2021 23:02:30	Instrument ID:	19930		
Lims ID:	410-30627-A-4	Lab Sample ID:	410-30627-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Dichlorobromomethane, CAS: 75-27-4

Signal: 1

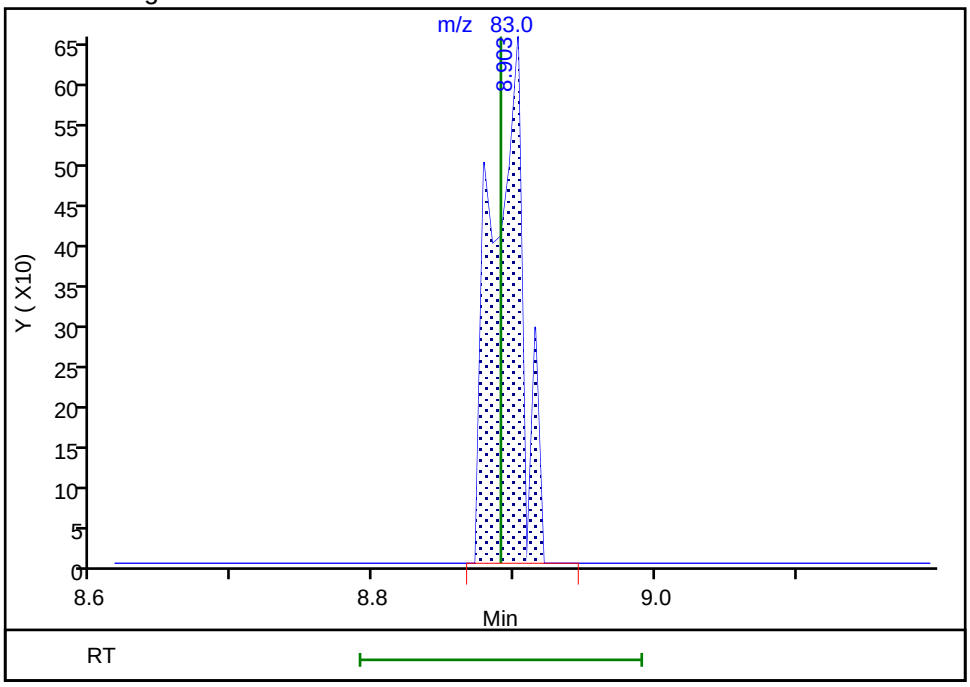
Processing Integration Results

RT: 8.88
Area: 328
Amount: 0.004174
Amount Units: ug/l



Manual Integration Results

RT: 8.90
Area: 1005
Amount: 0.012790
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:36:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

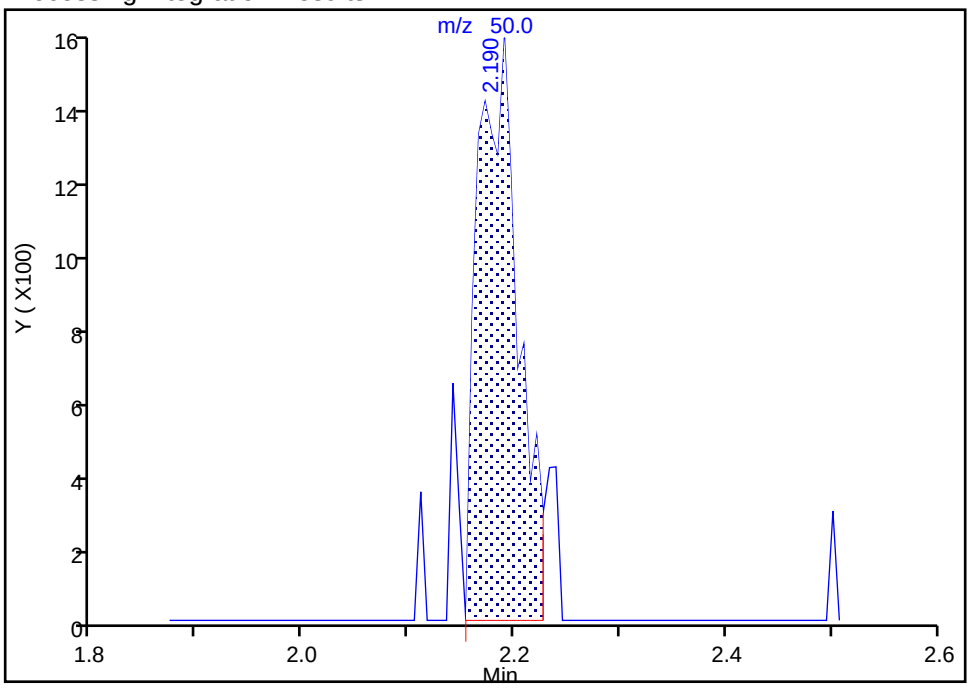
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S35.D				
Injection Date:	03-Mar-2021 23:02:30	Instrument ID:	19930		
Lims ID:	410-30627-A-4	Lab Sample ID:	410-30627-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

4 Chloromethane, CAS: 74-87-3

Signal: 1

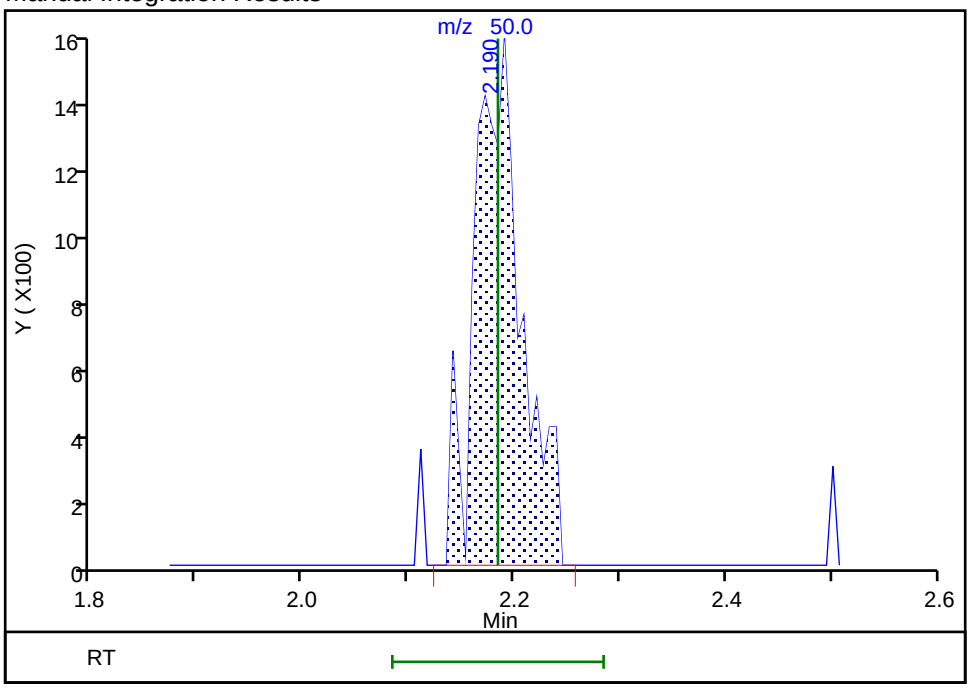
Processing Integration Results

RT: 2.19
Area: 4044
Amount: 0.046382
Amount Units: ug/l



Manual Integration Results

RT: 2.19
Area: 4668
Amount: 0.053539
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:33:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

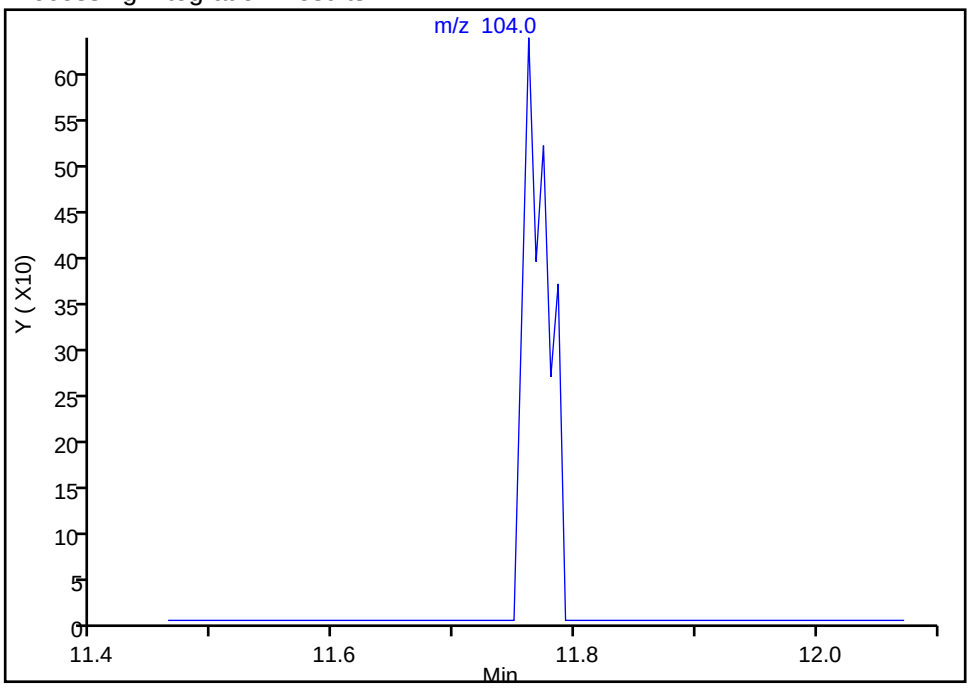
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S35.D				
Injection Date:	03-Mar-2021 23:02:30	Instrument ID:	19930		
Lims ID:	410-30627-A-4	Lab Sample ID:	410-30627-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

95 Styrene, CAS: 100-42-5

Signal: 1

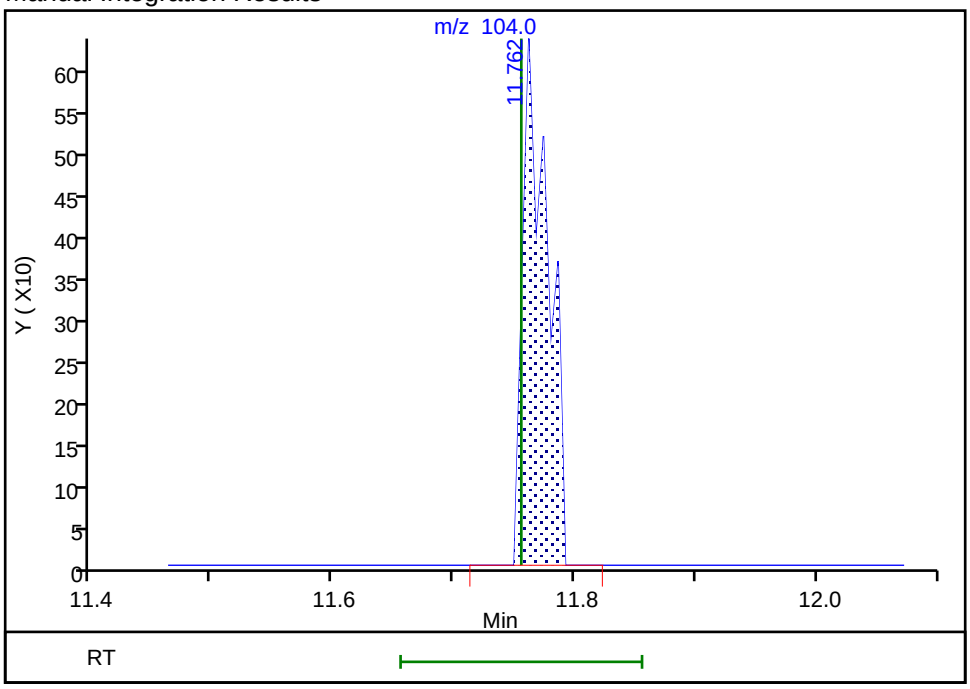
Not Detected
Expected RT: 11.76

Processing Integration Results



Manual Integration Results

RT: 11.76
Area: 907
Amount: 0.004258
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:37:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

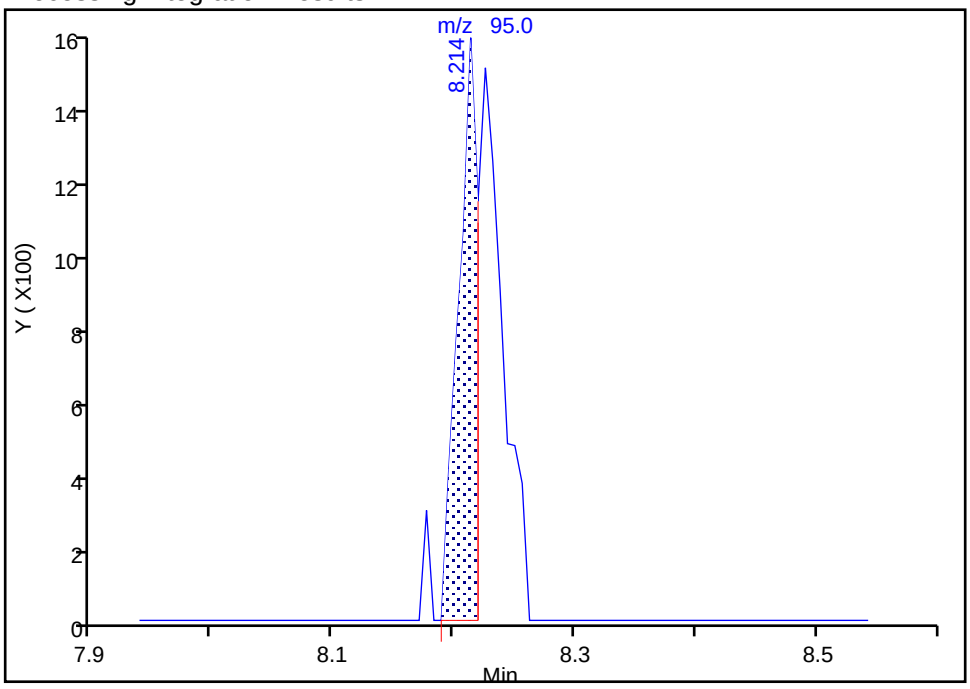
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S35.D				
Injection Date:	03-Mar-2021 23:02:30	Instrument ID:	19930		
Lims ID:	410-30627-A-4	Lab Sample ID:	410-30627-4		
Client ID:	HD-COD-SW-9-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

61 Trichloroethene, CAS: 79-01-6

Signal: 1

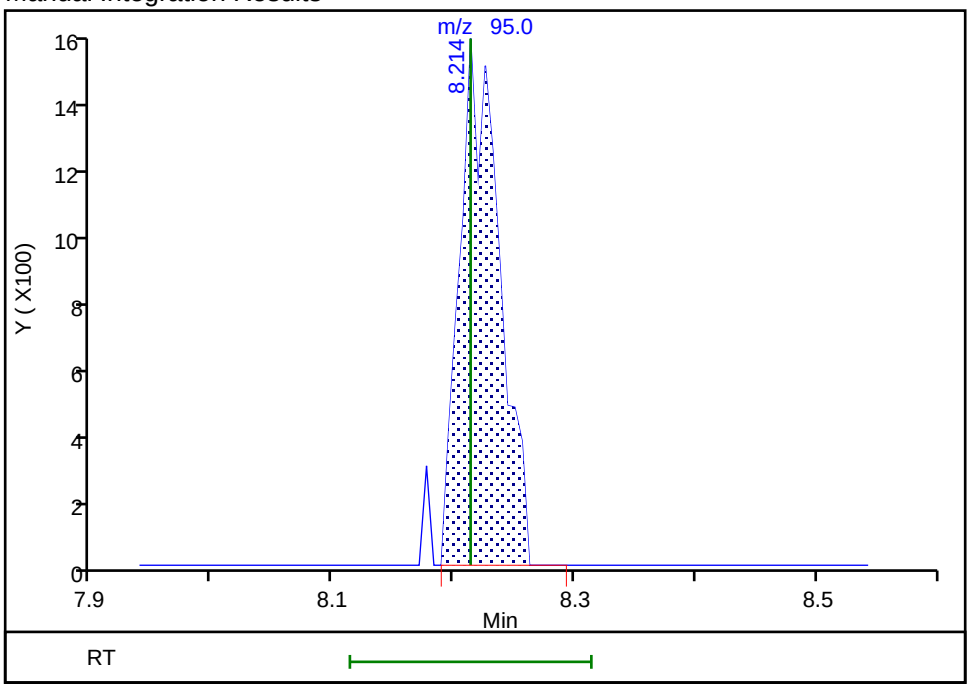
Processing Integration Results

RT: 8.21
Area: 1719
Amount: 0.024620
Amount Units: ug/l



Manual Integration Results

RT: 8.21
Area: 3454
Amount: 0.049468
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:36:41
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.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-13-0/1-0 Lab Sample ID: 410-30627-5

Matrix: Water Lab File ID: IM03S36.D

Analysis Method: 8260D Date Collected: 02/25/2021 10:00

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 23:23

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.: 99333 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	^c	5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		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	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.051	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	ND		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-13-0/1-0 Lab Sample ID: 410-30627-5

Matrix: Water Lab File ID: IM03S36.D

Analysis Method: 8260D Date Collected: 02/25/2021 10:00

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 23:23

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.: 99333 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)	97		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\19930\20210303-23228.b\IM03S36.D
Lims ID: 410-30627-A-5
Client ID: HD-COD-SW-13-0/1-0
Sample Type: Client
Inject. Date: 03-Mar-2021 23:23:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-014
Misc. Info.: 410-30627-A-5
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

First Level Reviewer: knouses Date: 04-Mar-2021 12:38:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.172	2.184	-0.012	1	3574	0.0408	M
5 Vinyl chloride	62		2.306				ND	
7 Bromomethane	94		2.629				ND	
8 Chloroethane	64		2.709				ND	
14 1,1-Dichloroethene	96		3.574				ND	
15 Acetone	43	3.605	3.605	0.000	97	15852	1.59	
19 Carbon disulfide	76	3.873	3.885	-0.012	99	8935	0.0547	
23 Methylene Chloride	84		4.251				ND	7
* 24 t-Butyl alcohol-d10 (IS)	65	4.251	4.275	-0.024	0	182612	50.0	
27 Methyl tert-butyl ether	73		4.659				ND	
28 trans-1,2-Dichloroethene	96		4.672				ND	
31 1,1-Dichloroethane	63		5.330				ND	
36 2-Butanone (MEK)	43		6.122				ND	7
37 cis-1,2-Dichloroethene	96	6.159	6.159	0.000	73	3656	0.0505	
43 Chlorobromomethane	128		6.488				ND	
45 Chloroform	83	6.647	6.641	0.006	0	1554	0.0140	7M
$ 46 Dibromofluoromethane (Surr)	113	6.848	6.854	-0.006	94	539300	10.3	
47 1,1,1-Trichloroethane	97		6.866				ND	
50 Carbon tetrachloride	117		7.080				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.299	7.305	-0.006	0	108899	10.3	
54 Benzene	78		7.336				ND	7
56 1,2-Dichloroethane	62		7.409				ND	
* 58 Fluorobenzene (IS)	96	7.738	7.738	0.000	99	2114879	10.0	
61 Trichloroethene	95	8.220	8.214	0.006	88	3370	0.0480	
63 1,2-Dichloropropane	63		8.549				ND	
68 Dichlorobromomethane	83		8.890				ND	
73 cis-1,3-Dichloropropene	75		9.433				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.597				ND	7
$ 75 Toluene-d8 (Surr)	98	9.744	9.738	0.006	93	2105345	9.74	
76 Toluene	92	9.817	9.817	0.000	95	5632	0.0312	
78 trans-1,3-Dichloropropene	75		10.067				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
80 1,1,2-Trichloroethane	97		10.274				ND	
81 Tetrachloroethene	166	10.359	10.366	-0.007	93	3431	0.0393	
83 2-Hexanone	43		10.481				ND	
85 Chlorodibromomethane	129		10.652				ND	
86 Ethylene Dibromide	107		10.762				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	0.000	85	1654452	10.0	
90 Chlorobenzene	112		11.213				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.298				ND	
92 Ethylbenzene	91		11.298				ND	7
93 m-Xylene & p-Xylene	106		11.414				ND	7
94 o-Xylene	106		11.743				ND	
95 Styrene	104		11.756				ND	
96 Bromoform	173		11.914				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.188	12.182	0.006	95	774115	9.67	
101 1,1,2,2-Tetrachloroethane	83		12.286				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	94	938478	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_31_826ISS_00004 Amount Added: 5.00 Units: uL Run Reagent

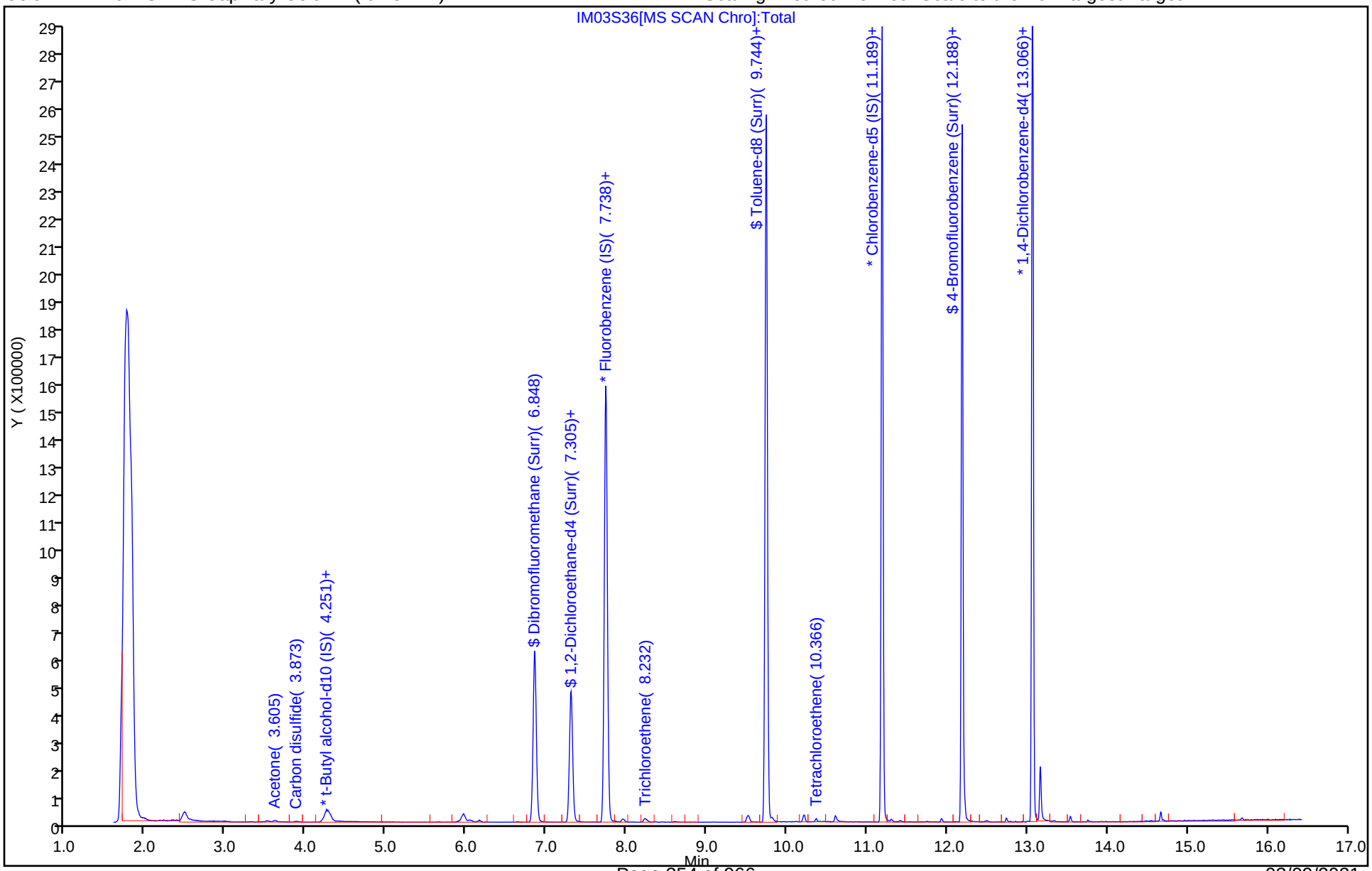
Report Date: 04-Mar-2021 13:06:59 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S36.D

Injection Date:	03-Mar-2021 23:23:30	Instrument ID:	19930	Operator ID:	MEC29284
Lims ID:	410-30627-A-5	Lab Sample ID:	410-30627-5	Worklist Smp#:	14
Client ID:	HD-COD-SW-13-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S36.D				
Lims ID:	410-30627-A-5				
Client ID:	HD-COD-SW-13-0/1-0				
Sample Type:	Client				
Inject. Date:	03-Mar-2021 23:23:30	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0023228-014				
Misc. Info.:	410-30627-A-5				
Operator ID:	MEC29284	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	04-Mar-2021 13:06:32	Calib Date:	23-Nov-2020 18:05:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1631				

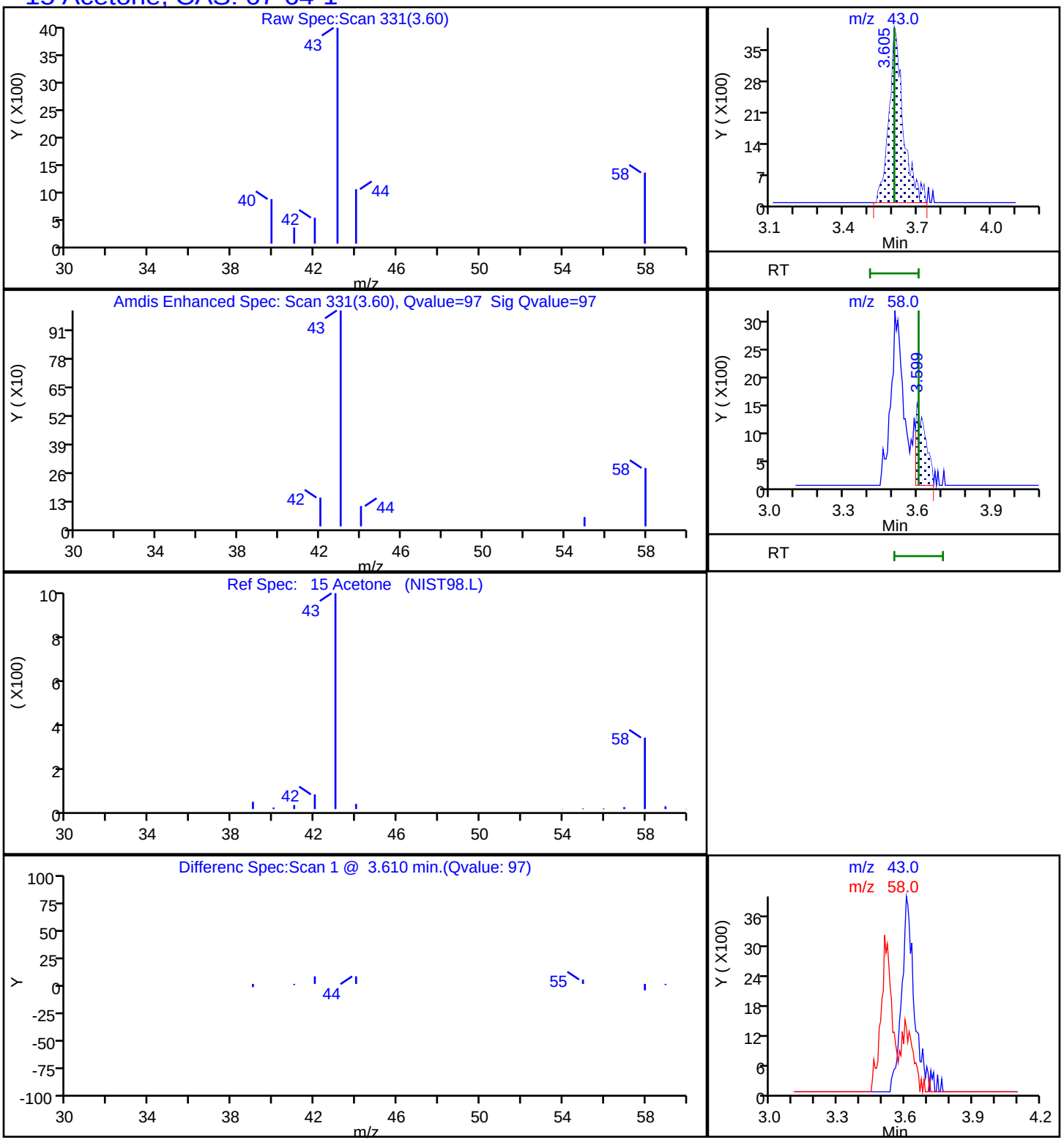
First Level Reviewer: knouses Date: 04-Mar-2021 12:38:51

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.3	103.28
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.44
$ 75 Toluene-d8 (Surr)	10.0	9.74	97.44
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.67	96.75

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S36.D				
Injection Date:	03-Mar-2021 23:23:30	Instrument ID:	19930		
Lims ID:	410-30627-A-5	Lab Sample ID:	410-30627-5		
Client ID:	HD-COD-SW-13-0/1-0				
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 (0.25 mm)	Detector	MS Quad		

15 Acetone, CAS: 67-64-1



Report Date: 04-Mar-2021 13:06:59 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S36.D

Injection Date: 03-Mar-2021 23:23:30 Instrument ID: 19930

Lims ID: 410-30627-A-5 Lab Sample ID: 410-30627-5

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

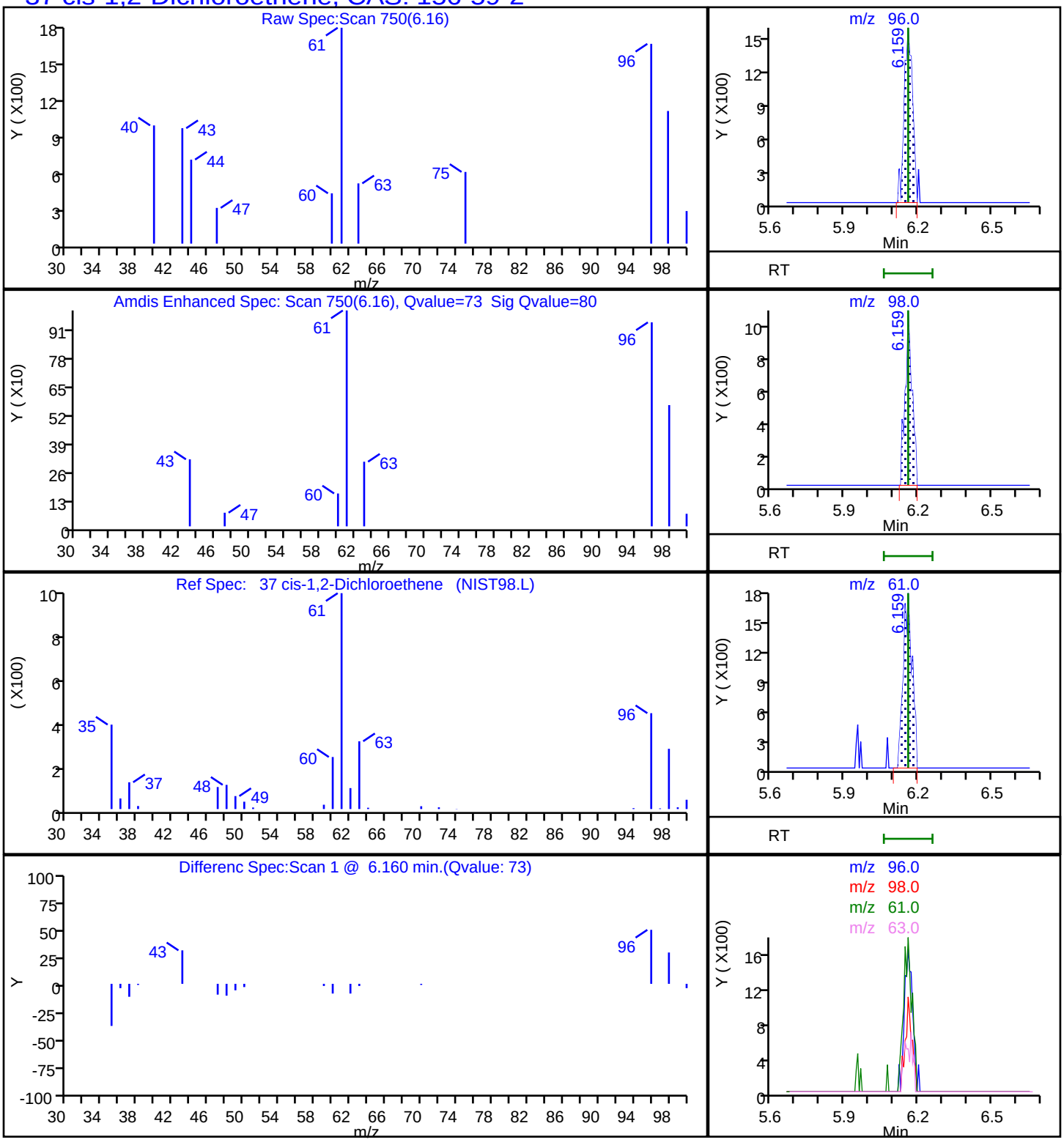
Operator ID: MEC29284 ALS Bottle#: 13 Worklist Smp#: 14

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D

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

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

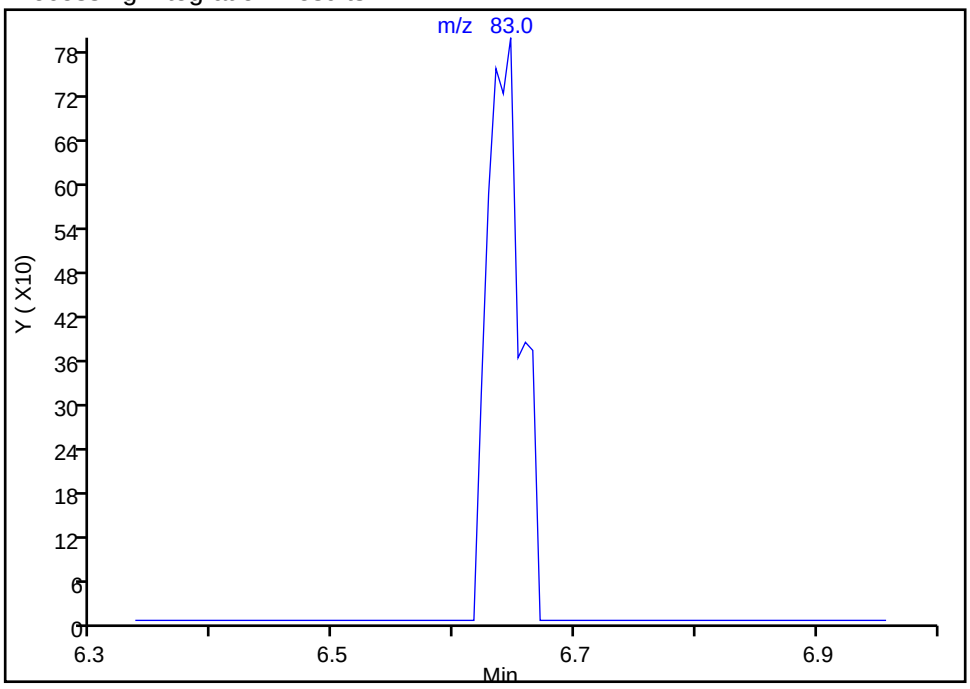
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S36.D				
Injection Date:	03-Mar-2021 23:23:30	Instrument ID:	19930		
Lims ID:	410-30627-A-5	Lab Sample ID:	410-30627-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

45 Chloroform, CAS: 67-66-3

Signal: 1

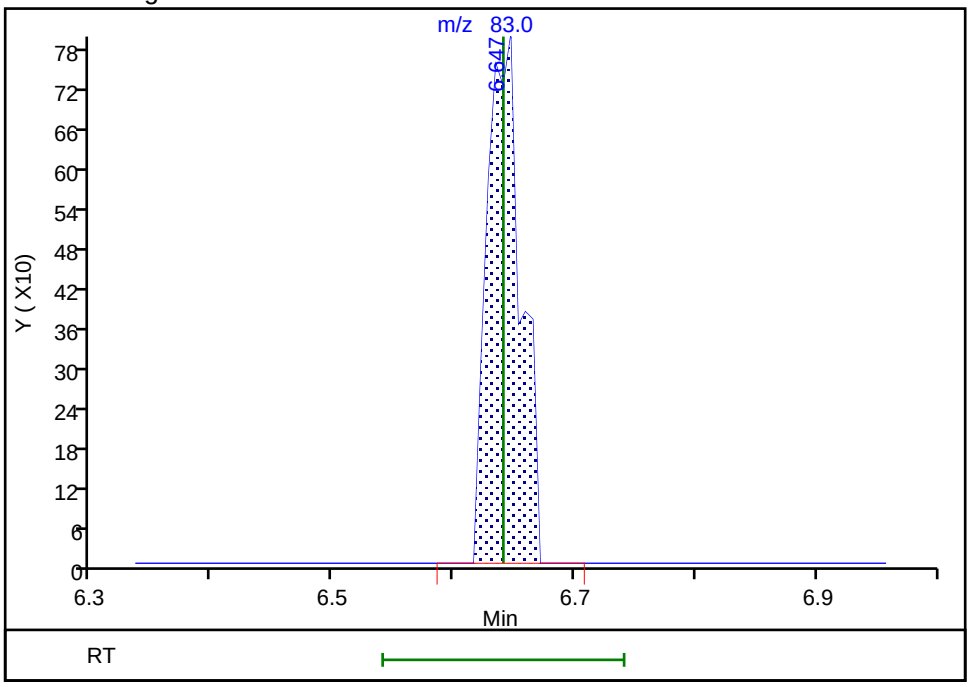
Not Detected
Expected RT: 6.64

Processing Integration Results



Manual Integration Results

RT: 6.65
Area: 1554
Amount: 0.014009
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:38:25
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

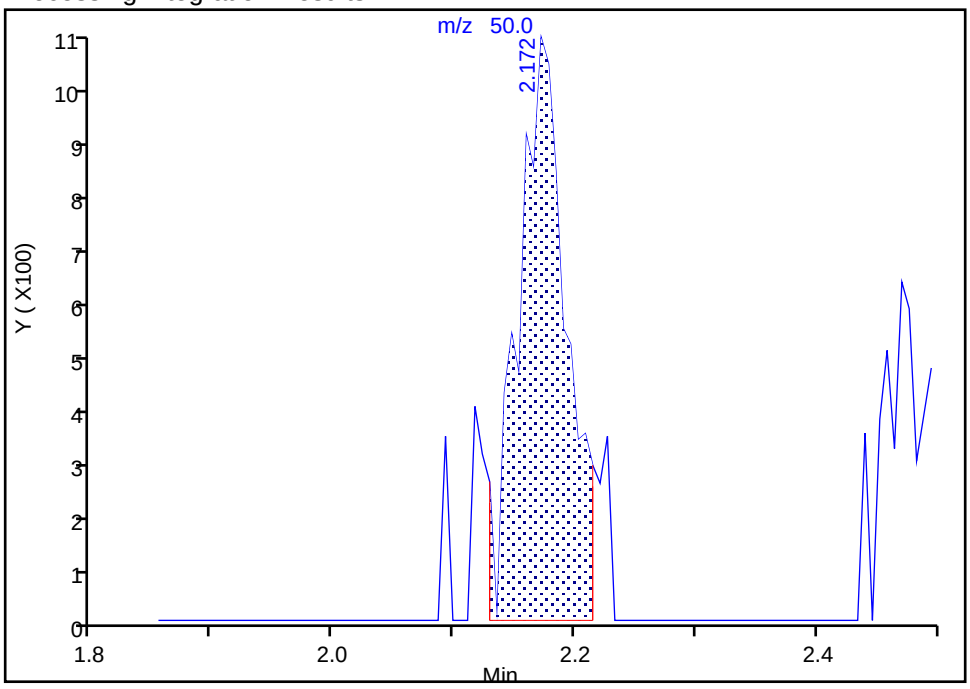
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S36.D				
Injection Date:	03-Mar-2021 23:23:30	Instrument ID:	19930		
Lims ID:	410-30627-A-5	Lab Sample ID:	410-30627-5		
Client ID:	HD-COD-SW-13-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

4 Chloromethane, CAS: 74-87-3

Signal: 1

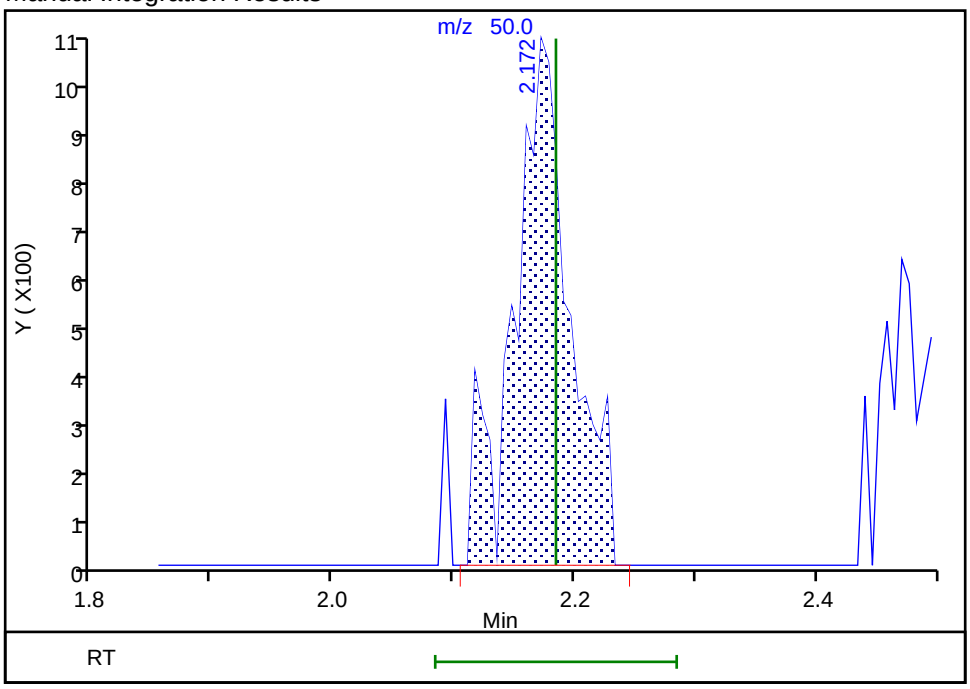
Processing Integration Results

RT: 2.17
Area: 3093
Amount: 0.035314
Amount Units: ug/l



Manual Integration Results

RT: 2.17
Area: 3574
Amount: 0.040806
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:37:55

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.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 Lab Sample ID: 410-30627-6

Matrix: Water Lab File ID: IM03S37.D

Analysis Method: 8260D Date Collected: 02/25/2021 12:10

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 23:44

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.: 99333 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	0.10	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	0.064	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	^c	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	0.14	J	0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.43	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	1.5		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	0.53		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 Lab Sample ID: 410-30627-6

Matrix: Water Lab File ID: IM03S37.D

Analysis Method: 8260D Date Collected: 02/25/2021 12:10

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 23:44

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.: 99333 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)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		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\19930\20210303-23228.b\IM03S37.D
Lims ID: 410-30627-A-6
Client ID: HD-COD-SW-15-0/1-0
Sample Type: Client
Inject. Date: 03-Mar-2021 23:44:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-015
Misc. Info.: 410-30627-A-6
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

First Level Reviewer: knouses Date: 04-Mar-2021 12:41:57

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
1	Dichlorodifluoromethane	85		1.983				ND	
2	Chlorodifluoromethane	51		1.983				ND	
3	Dimethyl ether	45		2.050				ND	
4	Chloromethane	50		2.184				ND	
6	Butadiene	39		2.294				ND	7
5	Vinyl chloride	62		2.306				ND	
7	Bromomethane	94		2.629				ND	
8	Chloroethane	64		2.709				ND	
9	Dichlorofluoromethane	67		2.952				ND	7
10	Trichlorofluoromethane	101		3.019				ND	
11	Ethyl ether	59		3.263				ND	
T 200	Ethanol TIC	45		3.288				ND	7
12	1,2-Dichloro-1,1,2-trifluoroetha	67		3.343				ND	
13	Acrolein	56		3.434				ND	
14	1,1-Dichloroethene	96	3.580	3.574	0.006	94	3588	0.0636	
15	Acetone	43	3.611	3.605	0.006	96	11939	1.16	
16	112TCTFE	101		3.623				ND	
17	Iodomethane	142		3.775				ND	
18	Ethyl bromide	108		3.806				ND	
19	Carbon disulfide	76	3.891	3.885	0.006	57	7018	0.0429	
20	Acetonitrile	41		3.989				ND	
21	Methyl acetate	43		4.025				ND	
22	3-Chloro-1-propene	41		4.062				ND	
23	Methylene Chloride	84		4.251				ND	7
* 24	t-Butyl alcohol-d10 (IS)	65	4.275	4.275	0.000	0	188788	50.0	
25	2-Methyl-2-propanol	59		4.397				ND	
26	Acrylonitrile	53		4.586				ND	
27	Methyl tert-butyl ether	73	4.659	4.659	0.000	1	3441	0.0228	7M
28	trans-1,2-Dichloroethene	96		4.672				ND	
29	Hexane	57		5.098				ND	
31	1,1-Dichloroethane	63	5.348	5.330	0.018	90	4921	0.0437	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
30 Vinyl acetate	43		5.336				ND	
32 Isopropyl ether	45		5.385				ND	
33 2-Chloro-1,3-butadiene	53		5.440				ND	
34 Tert-butyl ethyl ether	59		5.921				ND	7
36 2-Butanone (MEK)	43		6.122				ND	7
S 35 1,2-Dichloroethene, Total	100				0		0.4350	
37 cis-1,2-Dichloroethene	96	6.165	6.159	0.006	77	31502	0.4350	
38 2,2-Dichloropropane	77		6.177				ND	
39 Ethyl acetate	43	6.171	6.196	-0.025	16	1350	0.0343	
40 Propionitrile	54		6.214				ND	
41 Methyl acrylate	55		6.263				ND	
42 Methacrylonitrile	67		6.433				ND	
43 Chlorobromomethane	128		6.488				ND	
44 Tetrahydrofuran	71		6.494				ND	
45 Chloroform	83	6.641	6.641	0.000	90	15210	0.1370	
$ 46 Dibromofluoromethane (Surr)	113	6.854	6.854	0.000	94	531096	10.2	
47 1,1,1-Trichloroethane	97	6.866	6.866	0.000	35	10080	0.1010	
48 Cyclohexane	56		6.964				ND	
49 1-Chlorobutane	56		7.025				ND	
51 1,1-Dichloropropene	75		7.074				ND	
50 Carbon tetrachloride	117		7.080				ND	7
52 Isobutyl alcohol	41		7.226				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.305	7.305	0.000	0	106954	10.1	
54 Benzene	78	7.342	7.336	0.006	8	2946	0.0110	7M
56 1,2-Dichloroethane	62		7.409				ND	
55 Isopropyl acetate	43		7.421				ND	
57 Tert-amyl methyl ether	73		7.525				ND	
* 58 Fluorobenzene (IS)	96	7.744	7.738	0.006	99	2117422	10.0	
59 n-Heptane	43		7.750				ND	7
60 n-Butanol	56		8.092				ND	
61 Trichloroethene	95	8.226	8.214	0.012	96	37291	0.5310	
62 Methylcyclohexane	83		8.524				ND	
63 1,2-Dichloropropane	63		8.549				ND	
64 Methyl methacrylate	69		8.628				ND	
65 1,4-Dioxane	88		8.628				ND	
66 Dibromomethane	93		8.659				ND	
67 n-Propyl acetate	43		8.714				ND	
68 Dichlorobromomethane	83		8.890				ND	
69 2-Nitropropane	41		9.158				ND	
70 Chloroacetonitrile	75		9.232				ND	
71 2-Chloroethyl vinyl ether	63		9.250				ND	
72 1-Bromo-2-chloroethane	63		9.280				ND	
73 cis-1,3-Dichloropropene	75		9.433				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.597				ND	
$ 75 Toluene-d8 (Surr)	98	9.744	9.738	0.006	93	2090896	9.74	
76 Toluene	92	9.817	9.817	0.000	95	6381	0.0356	
T 155 Ethylene oxide TIC	44		10.000				ND	
T 154 2-Bromo-3-chloropropene TIC	75	9.750	10.000	-0.250	1	175	0.000826	
T 153 Epichlorohydrin TIC	57	9.750	10.000	-0.250	29	1186	0.005601	
T 152 Vinyl bromide TIC	106	9.536	10.000	-0.464	1	269	0.001270	
T 148 Monochloroacetic acid TIC	50		10.000				ND	
T 150 Epibromohydrin TIC	57	9.750	10.000	-0.250	12	1186	0.005601	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
T 149 2-Chloroethanol TIC	44	9.939	10.000	-0.061	1	518	0.002446	
T 156 2,3-Dibromopropene TIC	119	10.201	10.000	0.201	1	298	0.001407	
T 147 2-Bromoethanol TIC	45	9.744	10.000	-0.256	14	1561	0.007372	
T 151 Chloroacetaldehyde TIC	50		10.000				ND	
T 146 2,3-Dibromo-1-propanol TIC	57	9.750	10.000	-0.250	1	1186	0.005601	
T 157 3-Chloro-1,2-propanediol TIC	44	9.939	10.000	-0.061	1	518	0.002446	
S 77 1,3-Dichloropropene, Total	100		10.060				ND	7
78 trans-1,3-Dichloropropene	75		10.067				ND	
79 Ethyl methacrylate	69		10.128				ND	
80 1,1,2-Trichloroethane	97		10.274				ND	
81 Tetrachloroethene	166	10.366	10.366	0.000	97	132771	1.53	
82 1,3-Dichloropropane	76		10.433				ND	
83 2-Hexanone	43		10.481				ND	
84 n-Butyl acetate	43	10.622	10.610	0.012	7	997	0.0151	M
85 Chlorodibromomethane	129		10.652				ND	
86 Ethylene Dibromide	107		10.762				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	0.000	85	1644384	10.0	
88 1-Chlorohexane	91		11.195				ND	7
90 Chlorobenzene	112		11.213				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.298				ND	
92 Ethylbenzene	91		11.298				ND	7
93 m-Xylene & p-Xylene	106		11.414				ND	7
94 o-Xylene	106		11.743				ND	7
95 Styrene	104		11.756				ND	
96 Bromoform	173		11.914				ND	
97 Isopropylbenzene	105		12.042				ND	
98 cis-1,4-Dichloro-2-butene	88		12.085				ND	
99 Cyclohexanone	55		12.121				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.182	12.182	0.000	94	771931	9.71	
101 1,1,2,2-Tetrachloroethane	83		12.286				ND	
102 Bromobenzene	156		12.304				ND	
103 trans-1,4-Dichloro-2-butene	53		12.310				ND	
104 1,2,3-Trichloropropane	110		12.329				ND	
105 N-Propylbenzene	91		12.371				ND	7
106 2-Chlorotoluene	126		12.444				ND	
107 1,3,5-Trimethylbenzene	105	12.438	12.505	-0.067	84	4305	0.0146	7M
108 4-Chlorotoluene	126		12.536				ND	
109 tert-Butylbenzene	134		12.743				ND	
110 Pentachloroethane	167		12.780				ND	
111 1,2,4-Trimethylbenzene	105		12.786				ND	7
112 sec-Butylbenzene	105		12.908				ND	
113 1,3-Dichlorobenzene	146		13.011				ND	7
114 4-Isopropyltoluene	119		13.017				ND	7
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	94	932139	10.0	
116 1,4-Dichlorobenzene	146		13.085				ND	7
117 1,2,3-Trimethylbenzene	120		13.091				ND	7
118 Benzyl chloride	126		13.158				ND	
119 n-Butylbenzene	92		13.310				ND	
120 1,2-Dichlorobenzene	146		13.341				ND	
121 Hexachloroethane	117		13.542				ND	
122 1,2-Dibromo-3-Chloropropane	155		13.883				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
123 1,3,5-Trichlorobenzene	180		14.011				ND	
124 1,2,4-Trichlorobenzene	180		14.432				ND	
125 Hexachlorobutadiene	225		14.517				ND	
126 Naphthalene	128		14.615				ND	7
127 1,2,3-Trichlorobenzene	180		14.755				ND	
128 Dodecane	57		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	
132 Methylal	1		0.000				ND	
133 t-Amyl alcohol	1		0.000				ND	
T 201 Isopropyl alcohol TIC	45	1.757	0.000	1.757	1	91862	0.4338	
134 Isopropyl alcohol	45		0.000				ND	
141 1-Chloropropane	1		0.000				ND	
129 Propene oxide	1		0.000				ND	
130 Chlorotrifluoroethene	1		0.000				ND	
139 1-Bromo-3-Chloropropane	1		0.000				ND	
143 n-Decane	57		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	
204 Pentane	43		0.000				ND	
140 Ethanol	45		3.288				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

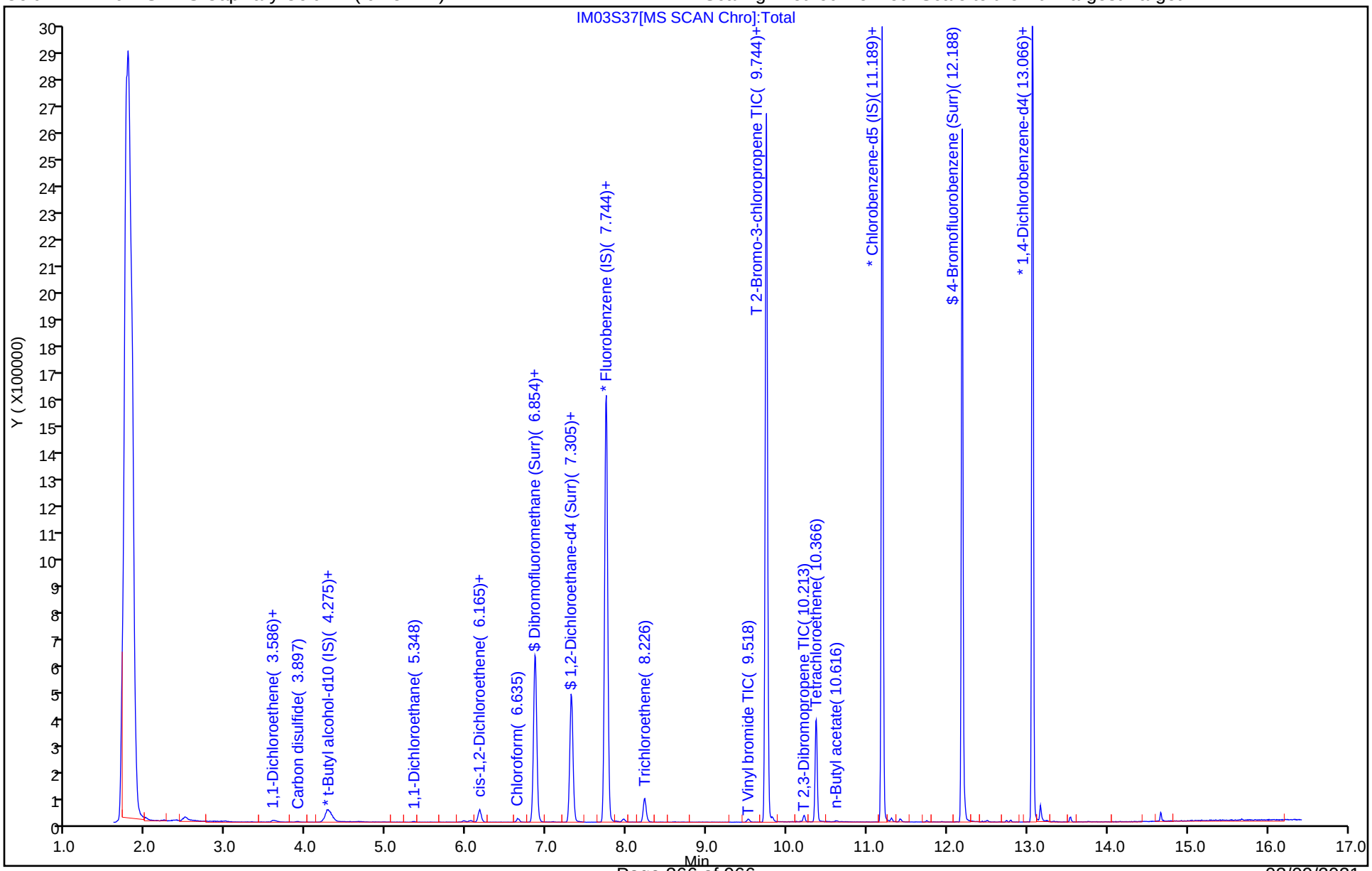
MSV_31_826ISS_00004 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 04-Mar-2021 13:07:00 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S37.D				
Injection Date:	03-Mar-2021 23:44:30	Instrument ID:	19930	Operator ID:	MEC29284
Lims ID:	410-30627-A-6	Lab Sample ID:	410-30627-6	Worklist Smp#:	15
Client ID:	HD-COD-SW-15-0/1-0				
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: 2



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S37.D
Lims ID: 410-30627-A-6
Client ID: HD-COD-SW-15-0/1-0
Sample Type: Client
Inject. Date: 03-Mar-2021 23:44:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-015
Misc. Info.: 410-30627-A-6
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

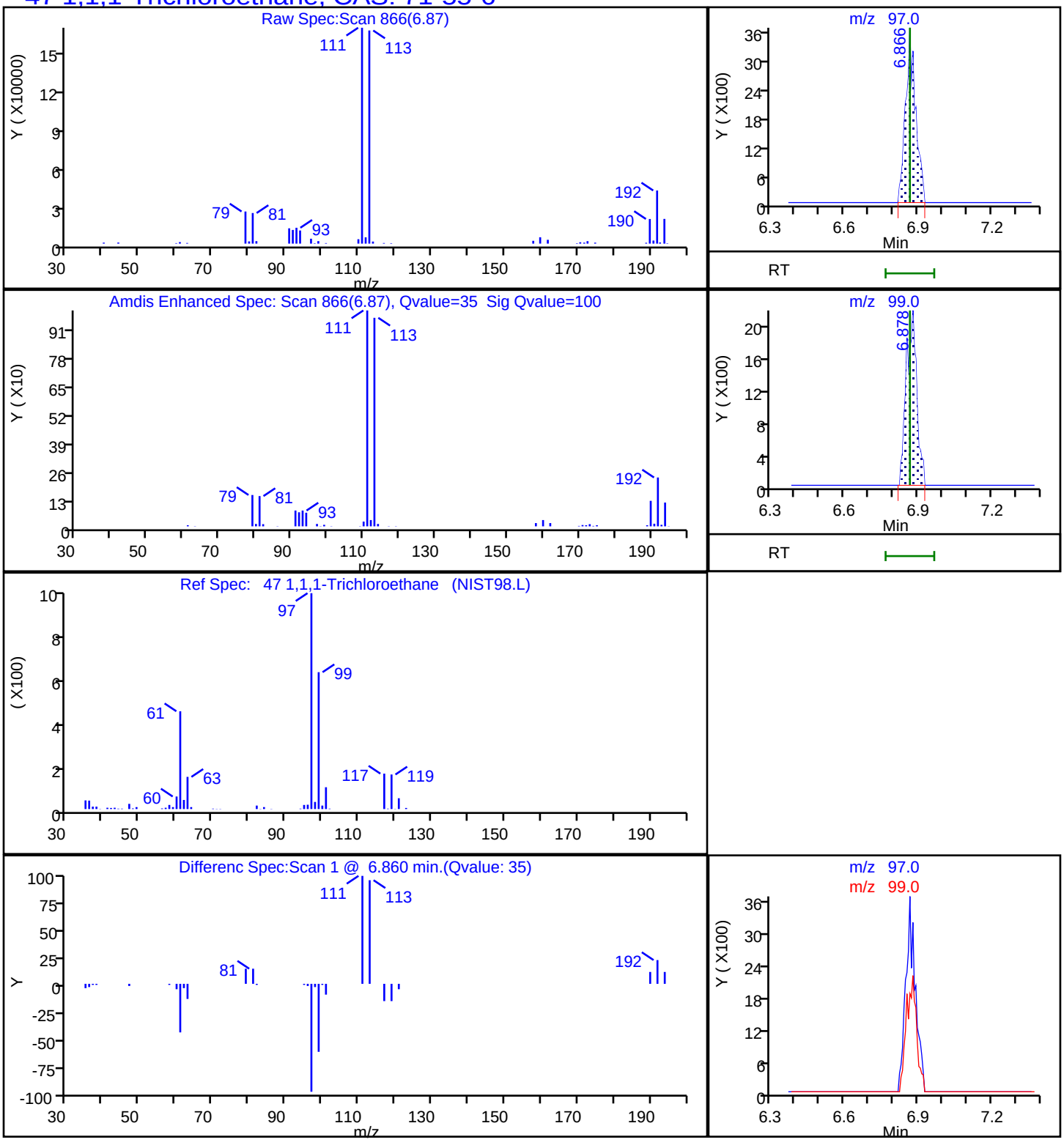
First Level Reviewer: knouses Date: 04-Mar-2021 12:41:57

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.2	101.58
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	101.47
$ 75 Toluene-d8 (Surr)	10.0	9.74	97.37
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.71	97.07

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S37.D				
Injection Date:	03-Mar-2021 23:44:30	Instrument ID:	19930		
Lims ID:	410-30627-A-6	Lab Sample ID:	410-30627-6		
Client ID:	HD-COD-SW-15-0/1-0				
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		

47 1,1,1-Trichloroethane, CAS: 71-55-6

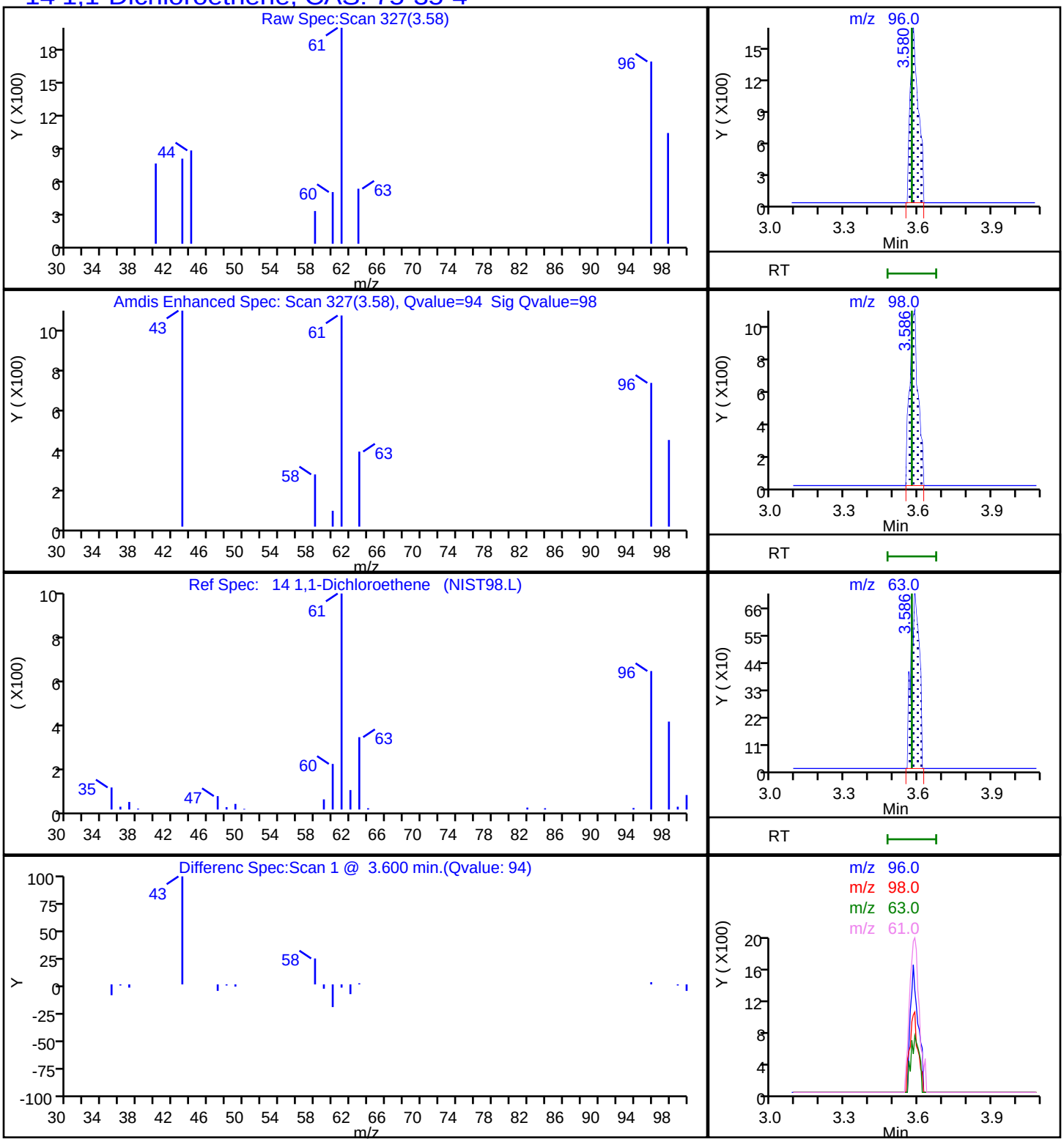


Report Date: 04-Mar-2021 13:07:00 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S37.D				
Injection Date:	03-Mar-2021 23:44:30	Instrument ID:	19930		
Lims ID:	410-30627-A-6	Lab Sample ID:	410-30627-6		
Client ID:	HD-COD-SW-15-0/1-0				
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		

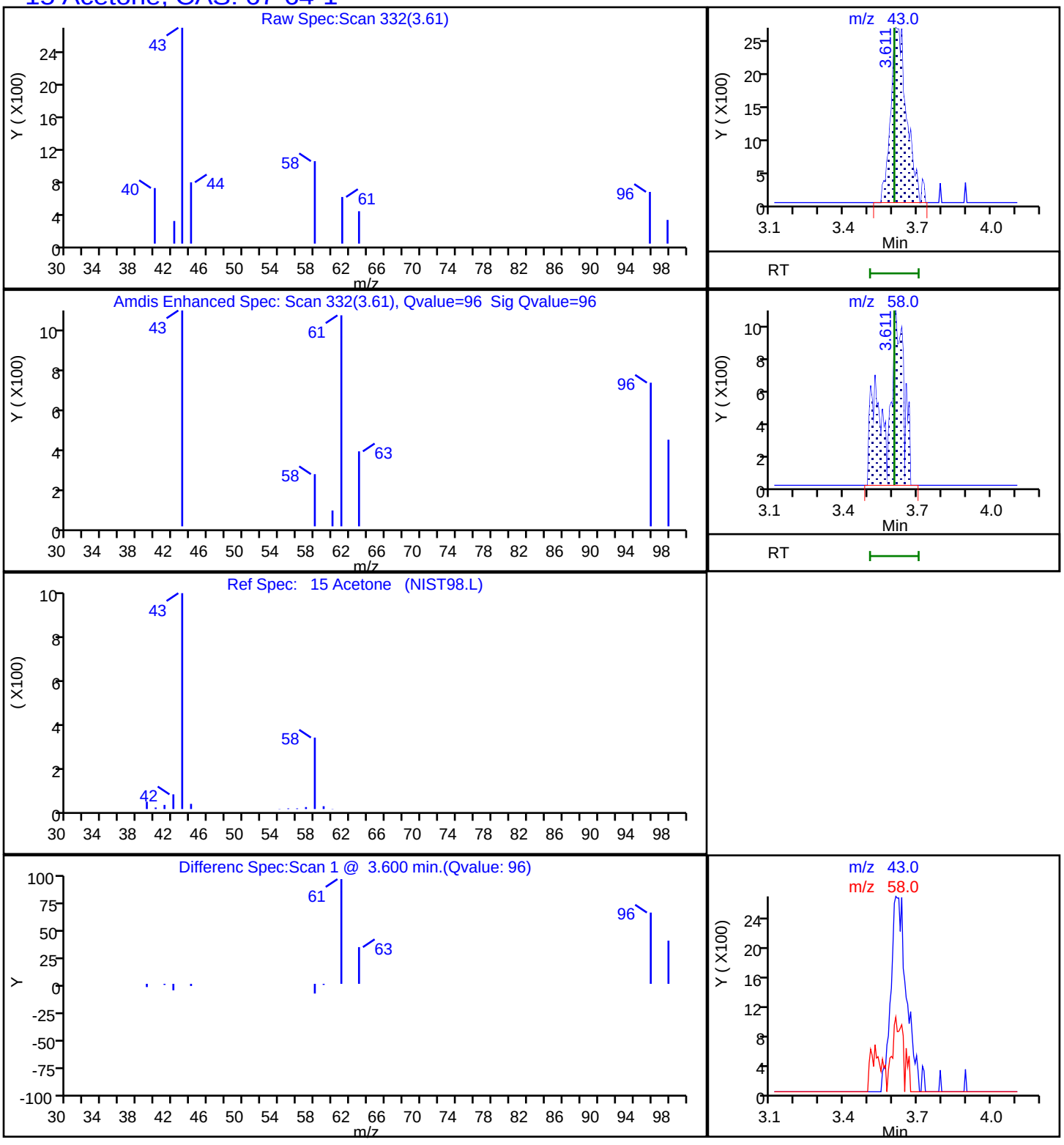
14 1,1-Dichloroethene, CAS: 75-35-4



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S37.D				
Injection Date:	03-Mar-2021 23:44:30	Instrument ID:	19930		
Lims ID:	410-30627-A-6	Lab Sample ID:	410-30627-6		
Client ID:	HD-COD-SW-15-0/1-0				
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 (0.25 mm)	Detector	MS Quad		

15 Acetone, CAS: 67-64-1



Report Date: 04-Mar-2021 13:07:01 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S37.D

Injection Date: 03-Mar-2021 23:44:30 Instrument ID: 19930

Lims ID: 410-30627-A-6 Lab Sample ID: 410-30627-6

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

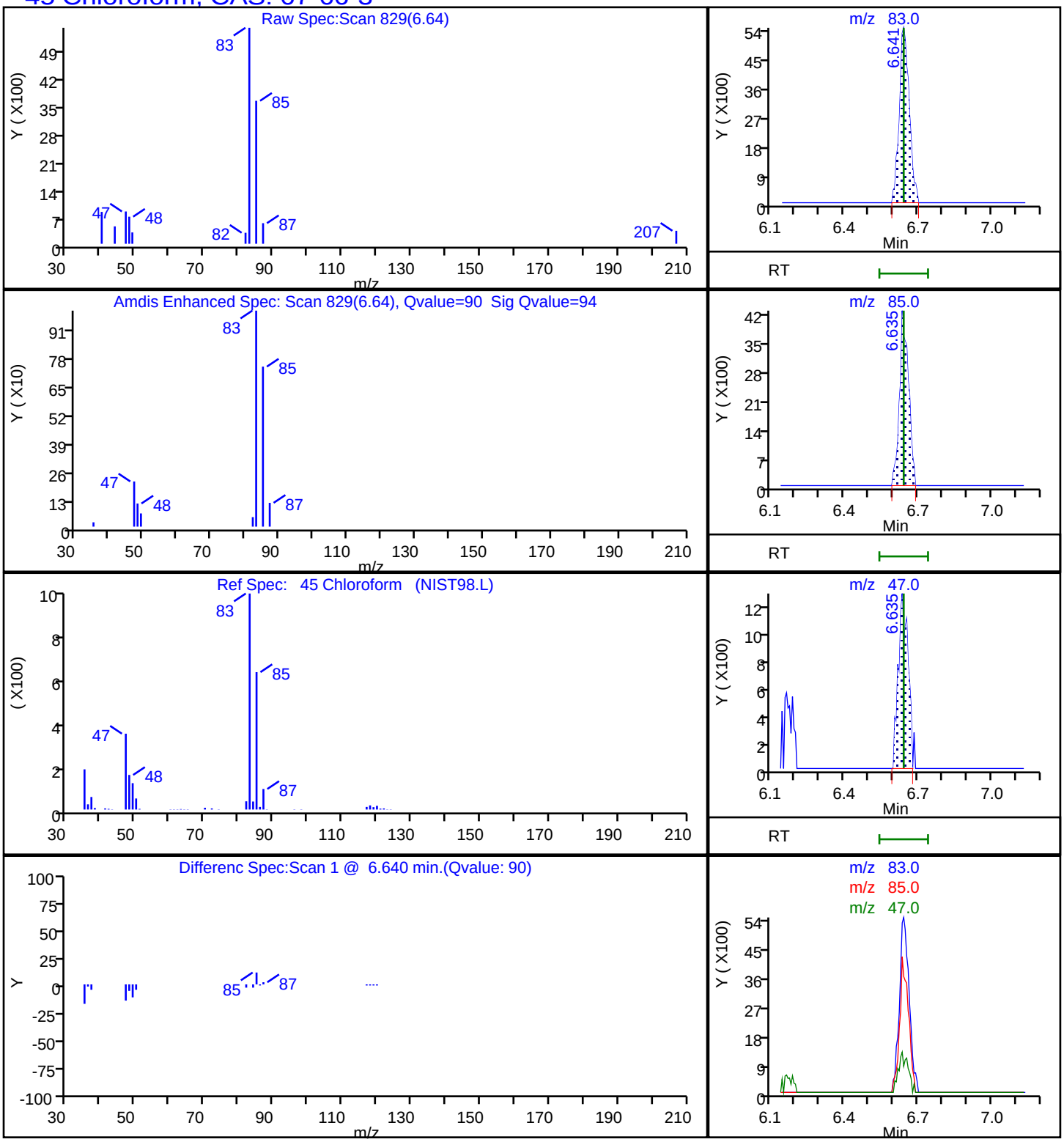
Operator ID: MEC29284 ALS Bottle#: 14 Worklist Smp#: 15

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D

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

45 Chloroform, CAS: 67-66-3



Report Date: 04-Mar-2021 13:07:01 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S37.D

Injection Date: 03-Mar-2021 23:44:30 Instrument ID: 19930

Lims ID: 410-30627-A-6 Lab Sample ID: 410-30627-6

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

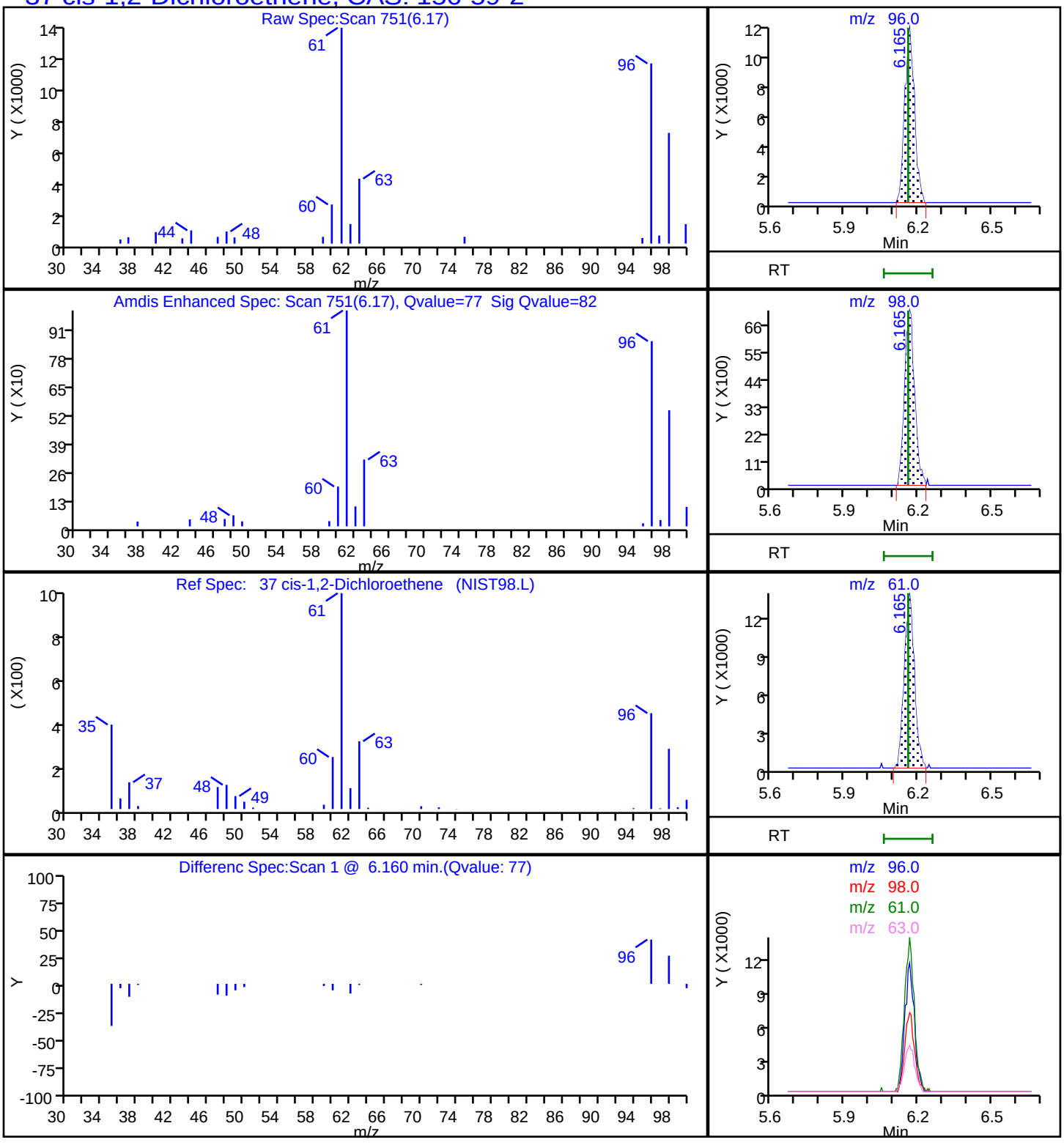
Operator ID: MEC29284 ALS Bottle#: 14 Worklist Smp#: 15

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D

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

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



Report Date: 04-Mar-2021 13:07:01 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S37.D

Injection Date: 03-Mar-2021 23:44:30 Instrument ID: 19930

Lims ID: 410-30627-A-6 Lab Sample ID: 410-30627-6

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

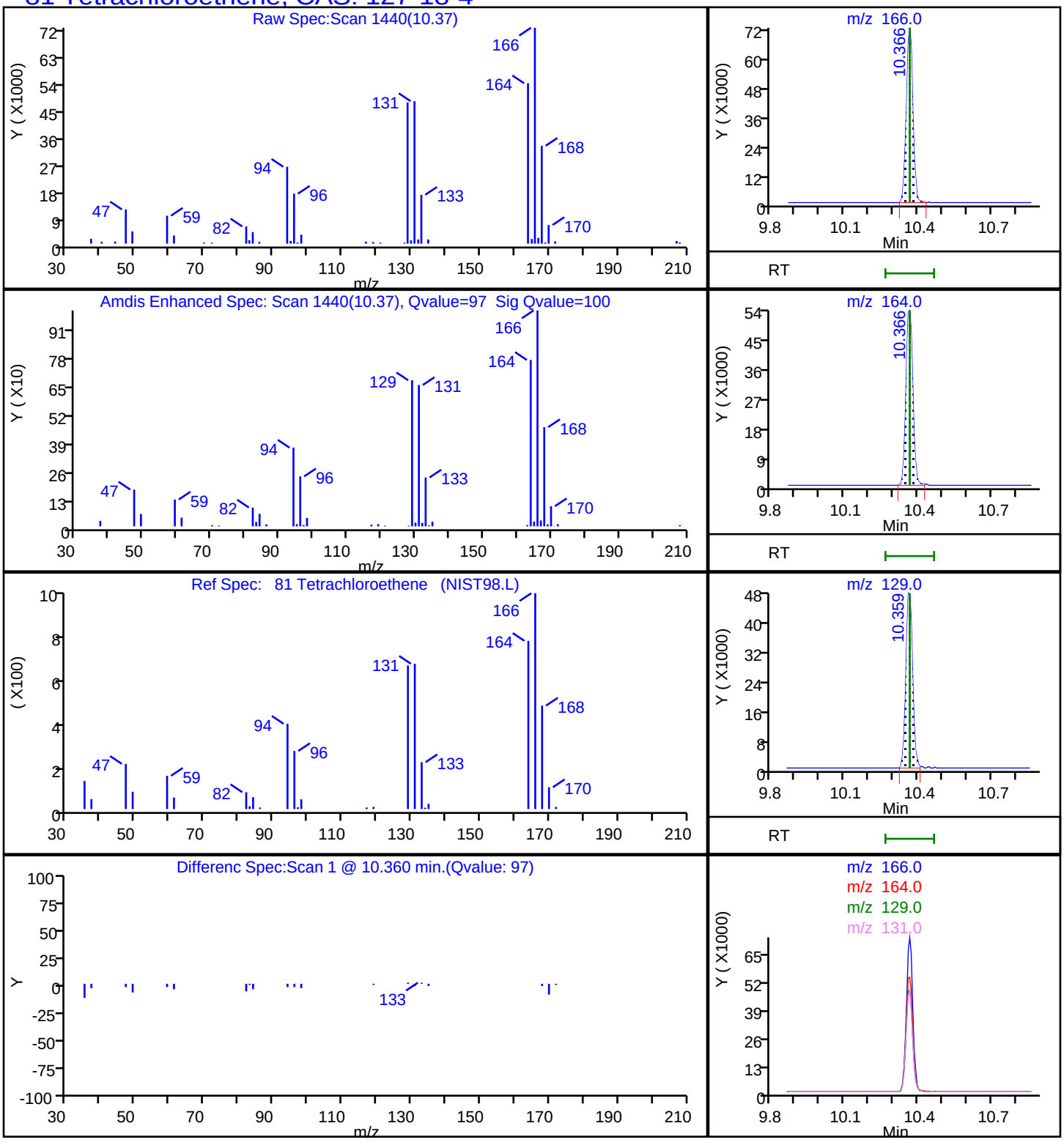
Operator ID: MEC29284 ALS Bottle#: 14 Worklist Smp#: 15

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

81 Tetrachloroethene, CAS: 127-18-4



Report Date: 04-Mar-2021 13:07:01 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S37.D

Injection Date: 03-Mar-2021 23:44:30 Instrument ID: 19930

Lims ID: 410-30627-A-6 Lab Sample ID: 410-30627-6

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

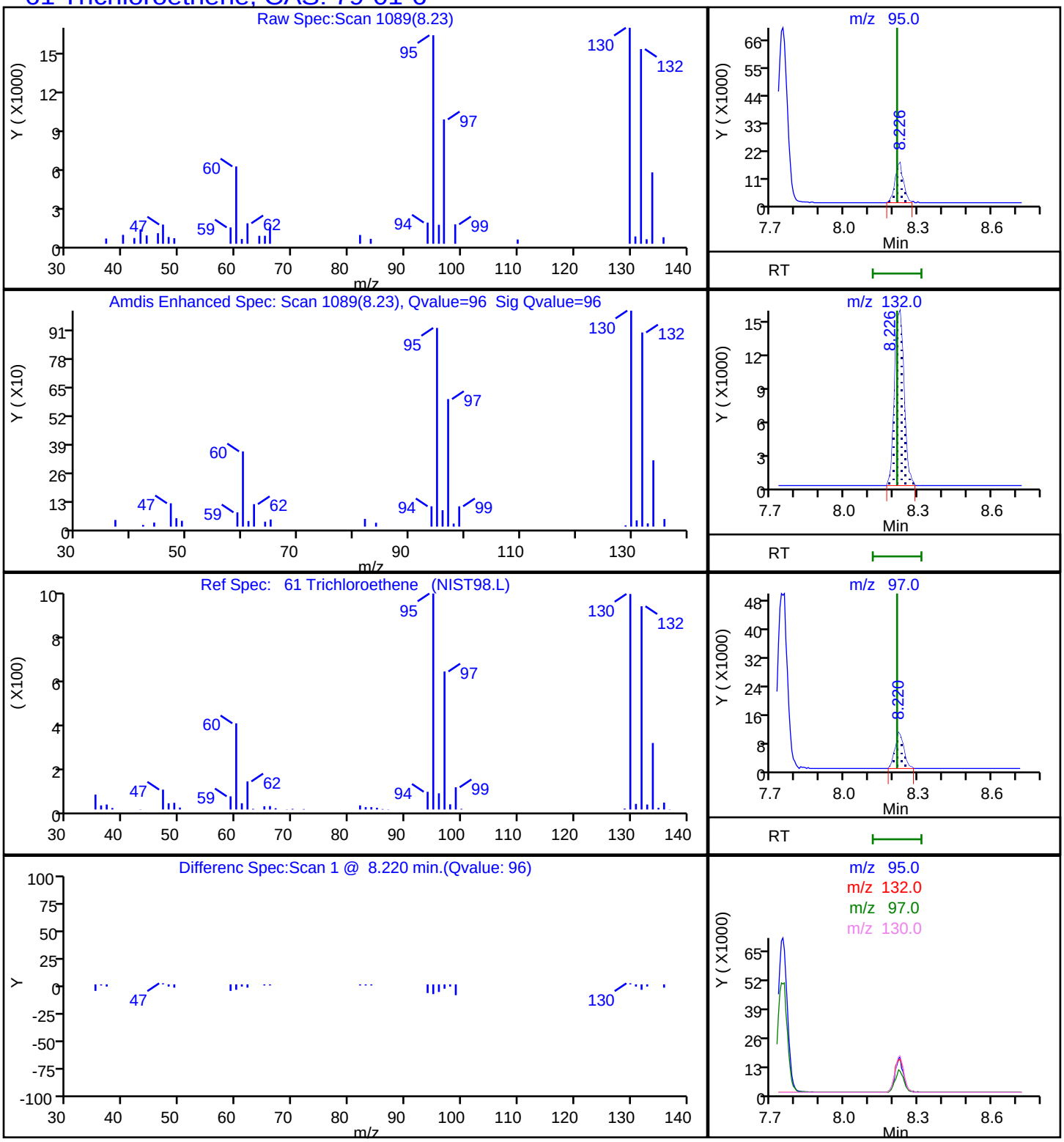
Operator ID: MEC29284 ALS Bottle#: 14 Worklist Smp#: 15

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D

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

61 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

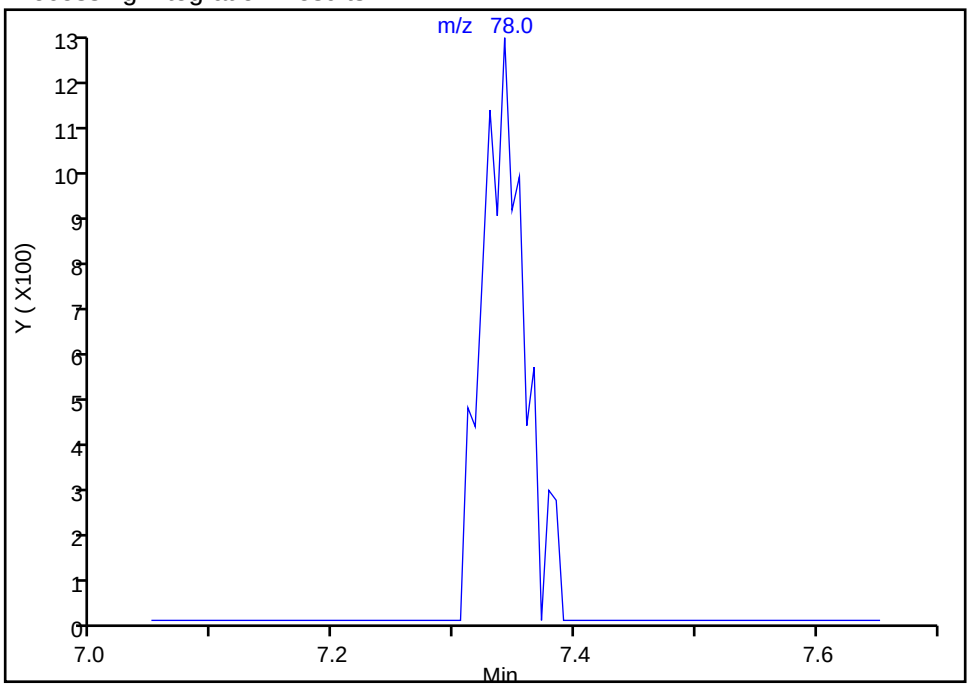
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S37.D				
Injection Date:	03-Mar-2021 23:44:30	Instrument ID:	19930		
Lims ID:	410-30627-A-6	Lab Sample ID:	410-30627-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

54 Benzene, CAS: 71-43-2

Signal: 1

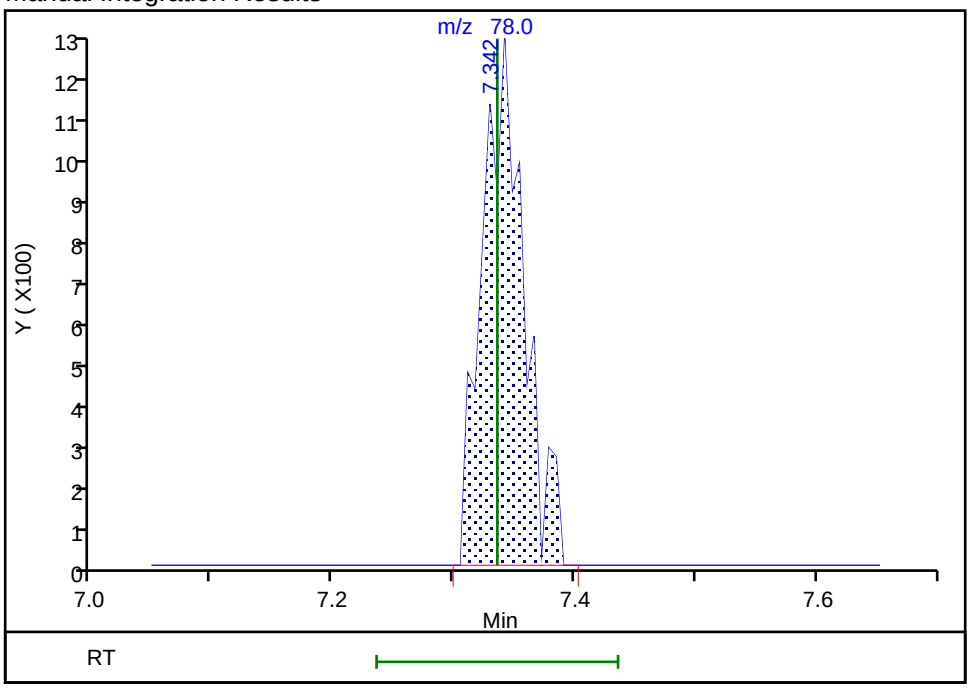
Not Detected
Expected RT: 7.34

Processing Integration Results



Manual Integration Results

RT: 7.34
Area: 2946
Amount: 0.010981
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:40:35
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

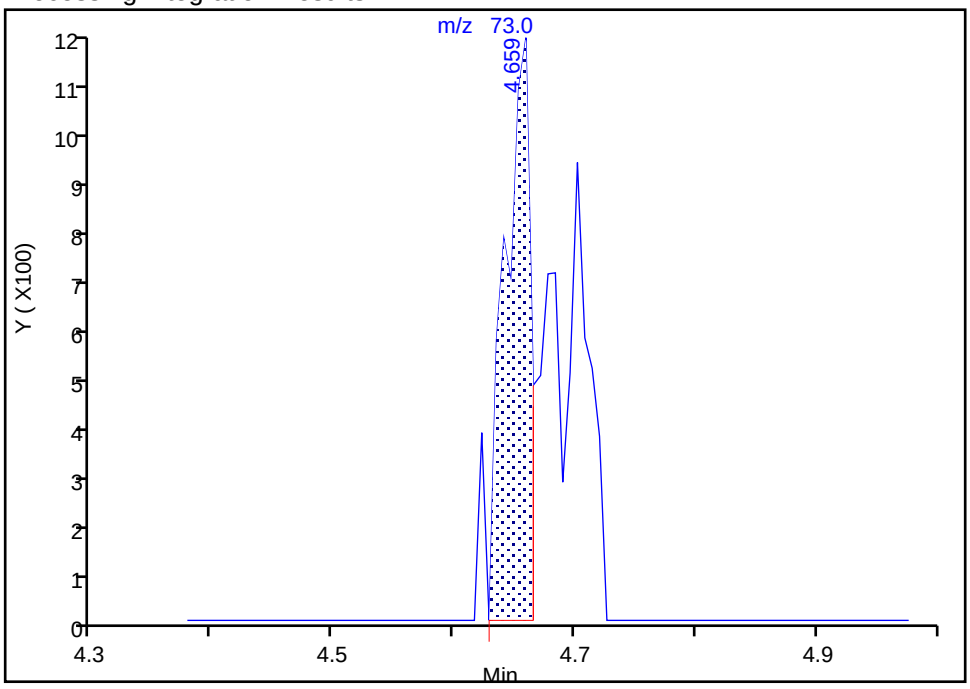
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S37.D				
Injection Date:	03-Mar-2021 23:44:30	Instrument ID:	19930		
Lims ID:	410-30627-A-6	Lab Sample ID:	410-30627-6		
Client ID:	HD-COD-SW-15-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

27 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

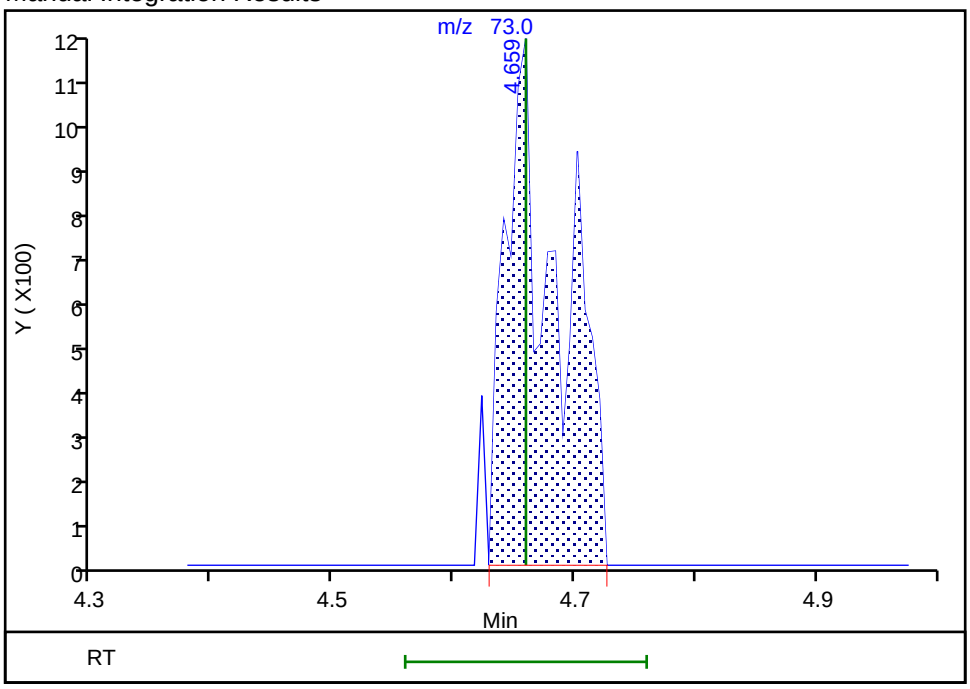
Processing Integration Results

RT: 4.66
Area: 1667
Amount: 0.011031
Amount Units: ug/l



Manual Integration Results

RT: 4.66
Area: 3441
Amount: 0.022769
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:39:52
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.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0 Lab Sample ID: 410-30627-7

Matrix: Water Lab File ID: IM03S42.D

Analysis Method: 8260D Date Collected: 02/25/2021 10:25

Sample wt/vol: 25(mL) Date Analyzed: 03/04/2021 01:31

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.: 99333 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	^c	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	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.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-16-0/1-0 Lab Sample ID: 410-30627-7

Matrix: Water Lab File ID: IM03S42.D

Analysis Method: 8260D Date Collected: 02/25/2021 10:25

Sample wt/vol: 25(mL) Date Analyzed: 03/04/2021 01:31

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.: 99333 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)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		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\19930\20210303-23228.b\IM03S42.D
Lims ID: 410-30627-A-7
Client ID: HD-COD-SW-16-0/1-0
Sample Type: Client
Inject. Date: 04-Mar-2021 01:31:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-020
Misc. Info.: 410-30627-A-7
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

First Level Reviewer: knouses Date: 04-Mar-2021 12:45:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.197	2.184	0.013	1	3116	0.0354	M
5 Vinyl chloride	62		2.306				ND	
7 Bromomethane	94		2.629				ND	
8 Chloroethane	64		2.709				ND	
14 1,1-Dichloroethene	96		3.574				ND	
15 Acetone	43	3.617	3.605	0.012	100	15386	1.46	
19 Carbon disulfide	76	3.885	3.885	0.000	95	7347	0.0448	M
23 Methylene Chloride	84		4.251				ND	7
* 24 t-Butyl alcohol-d10 (IS)	65	4.275	4.275	0.000	0	192932	50.0	
27 Methyl tert-butyl ether	73		4.659				ND	
28 trans-1,2-Dichloroethene	96		4.672				ND	
31 1,1-Dichloroethane	63		5.330				ND	
36 2-Butanone (MEK)	43		6.122				ND	7
37 cis-1,2-Dichloroethene	96	6.165	6.159	0.006	76	2947	0.0406	
43 Chlorobromomethane	128		6.488				ND	
45 Chloroform	83	6.659	6.641	0.018	1	1918	0.0172	7M
$ 46 Dibromofluoromethane (Surr)	113	6.854	6.854	0.000	94	543418	10.4	
47 1,1,1-Trichloroethane	97		6.866				ND	
50 Carbon tetrachloride	117		7.080				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.311	7.305	0.006	0	110232	10.4	
54 Benzene	78		7.336				ND	7
56 1,2-Dichloroethane	62	7.403	7.409	-0.006	13	2363	0.0360	M
* 58 Fluorobenzene (IS)	96	7.744	7.738	0.006	99	2123637	10.0	
61 Trichloroethene	95	8.220	8.214	0.006	75	2891	0.0410	
63 1,2-Dichloropropane	63		8.549				ND	
68 Dichlorobromomethane	83		8.890				ND	
73 cis-1,3-Dichloropropene	75		9.433				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.597				ND	7
$ 75 Toluene-d8 (Surr)	98	9.744	9.738	0.006	93	2124991	9.76	
76 Toluene	92	9.823	9.817	0.006	98	4920	0.0271	
78 trans-1,3-Dichloropropene	75		10.067				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
80 1,1,2-Trichloroethane	97		10.274				ND	
81 Tetrachloroethene	166	10.372	10.366	0.006	83	2927	0.0333	
83 2-Hexanone	43		10.481				ND	
85 Chlorodibromomethane	129		10.652				ND	
86 Ethylene Dibromide	107		10.762				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	0.000	85	1667506	10.0	
90 Chlorobenzene	112		11.213				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.298				ND	
92 Ethylbenzene	91		11.298				ND	
93 m-Xylene & p-Xylene	106		11.414				ND	7
94 o-Xylene	106		11.743				ND	7
95 Styrene	104		11.756				ND	
96 Bromoform	173		11.914				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.188	12.182	0.006	95	777342	9.64	
101 1,1,2,2-Tetrachloroethane	83		12.286				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	94	946853	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

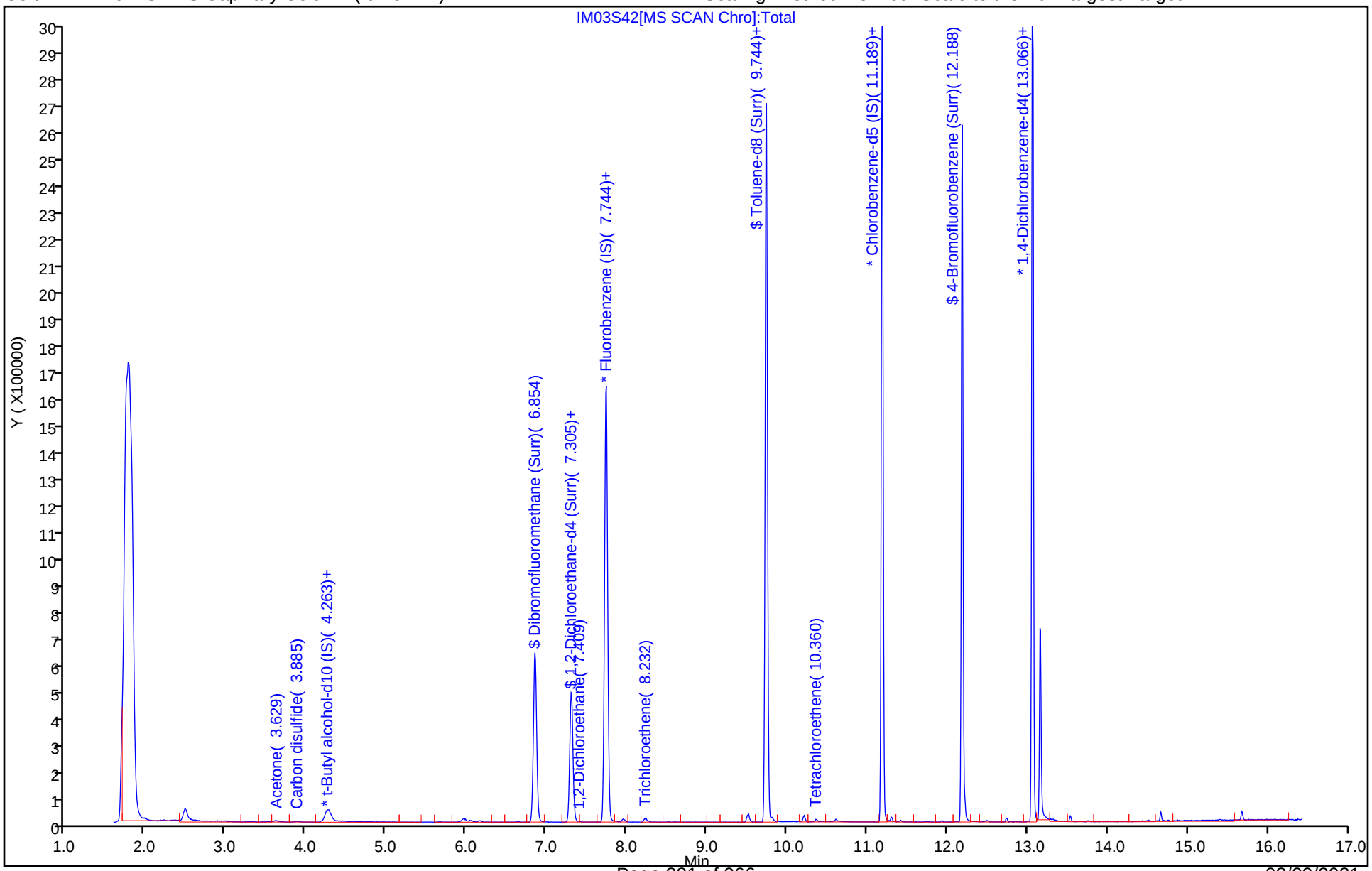
MSV_31_826ISS_00004 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 04-Mar-2021 13:07:17 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S42.D				
Injection Date:	04-Mar-2021 01:31:30	Instrument ID:	19930	Operator ID:	MEC29284
Lims ID:	410-30627-A-7	Lab Sample ID:	410-30627-7	Worklist Smp#:	20
Client ID:	HD-COD-SW-16-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S42.D
Lims ID: 410-30627-A-7
Client ID: HD-COD-SW-16-0/1-0
Sample Type: Client
Inject. Date: 04-Mar-2021 01:31:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-020
Misc. Info.: 410-30627-A-7
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

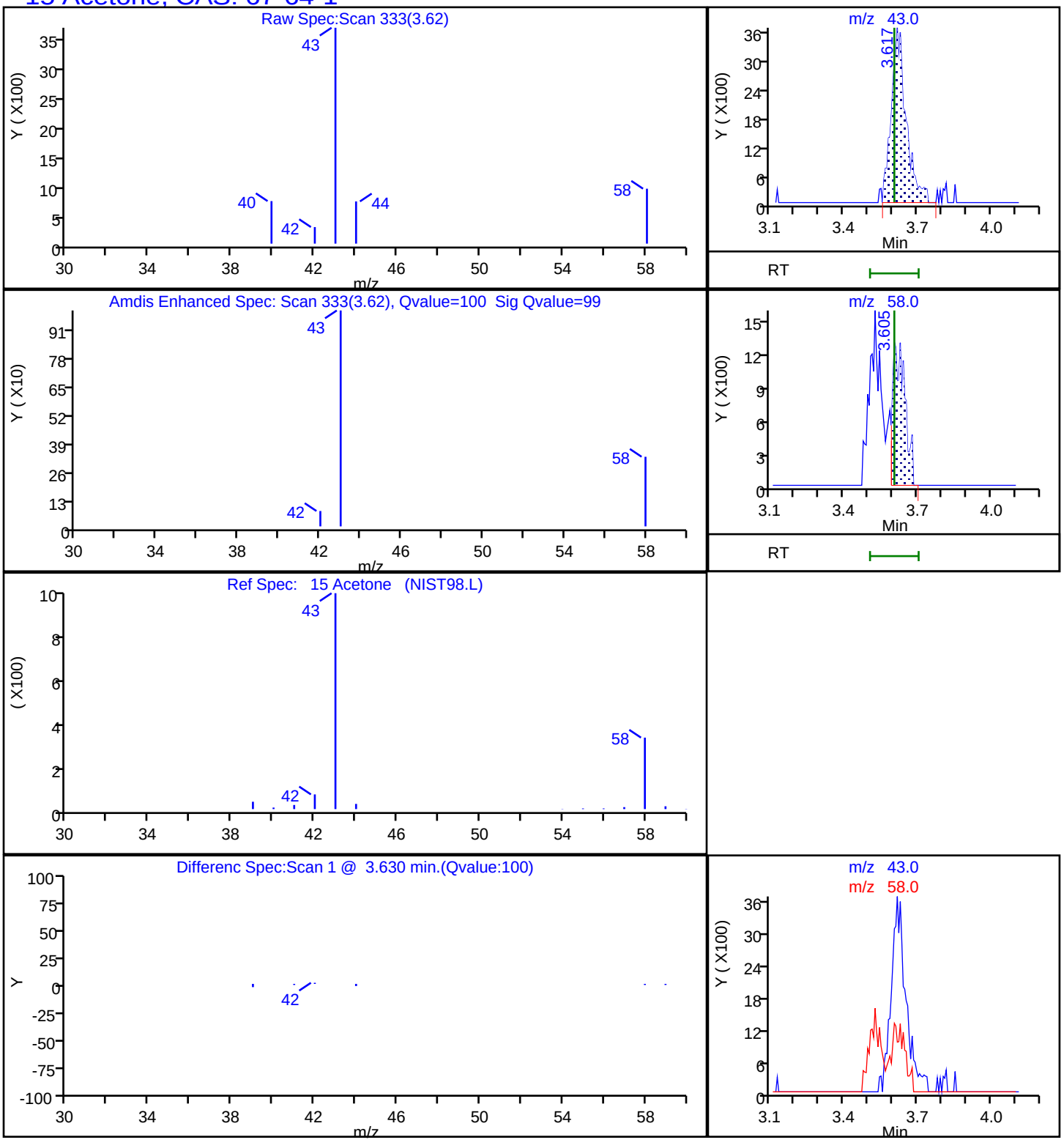
First Level Reviewer: knouses Date: 04-Mar-2021 12:45:37

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.4	103.64
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.27
$ 75 Toluene-d8 (Surr)	10.0	9.76	97.58
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.64	96.39

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S42.D				
Injection Date:	04-Mar-2021 01:31:30	Instrument ID:	19930		
Lims ID:	410-30627-A-7	Lab Sample ID:	410-30627-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

15 Acetone, CAS: 67-64-1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

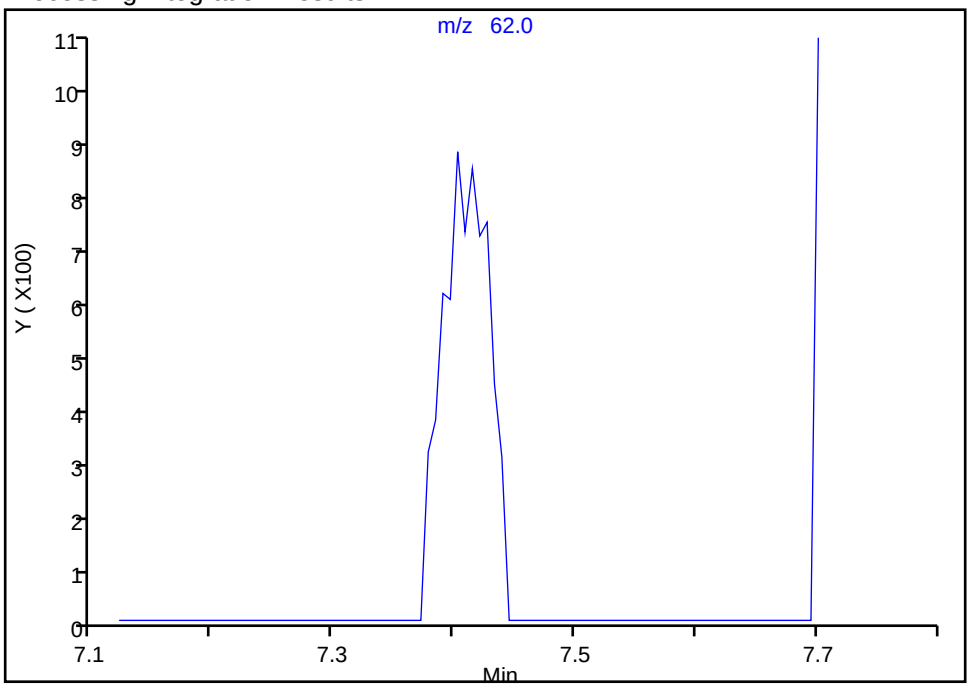
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S42.D				
Injection Date:	04-Mar-2021 01:31:30	Instrument ID:	19930		
Lims ID:	410-30627-A-7	Lab Sample ID:	410-30627-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

56 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

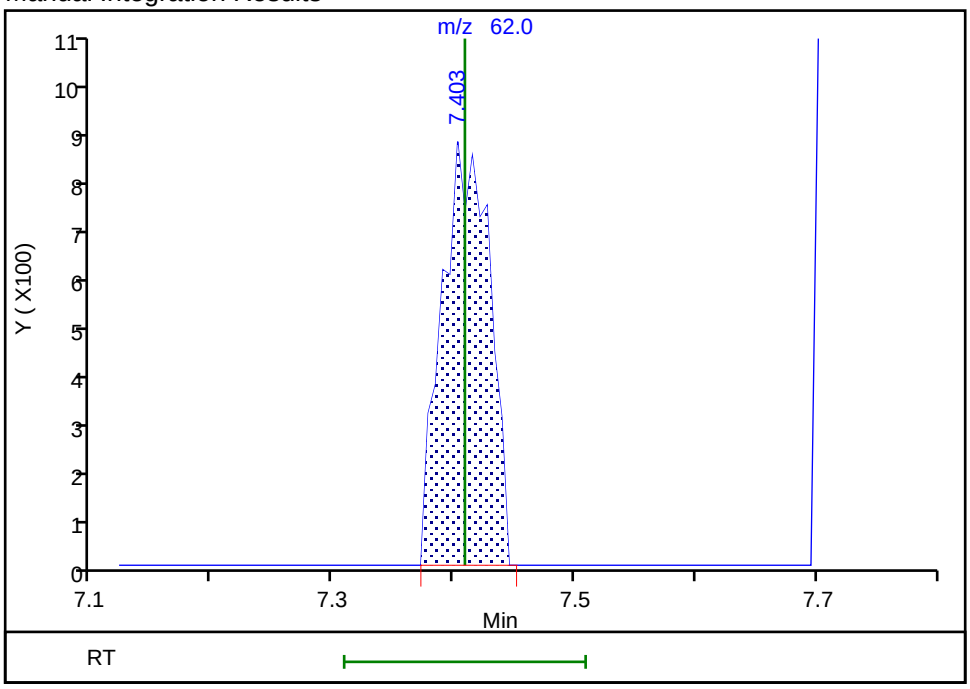
Not Detected
Expected RT: 7.41

Processing Integration Results



Manual Integration Results

RT: 7.40
Area: 2363
Amount: 0.035969
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:45:11
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

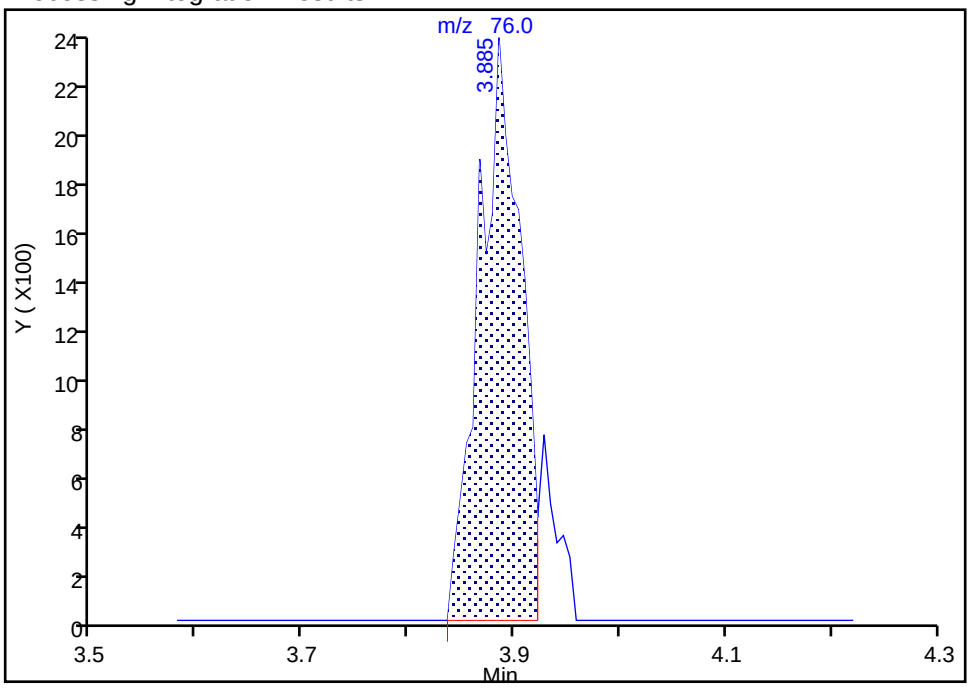
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S42.D				
Injection Date:	04-Mar-2021 01:31:30	Instrument ID:	19930		
Lims ID:	410-30627-A-7	Lab Sample ID:	410-30627-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

19 Carbon disulfide, CAS: 75-15-0

Signal: 1

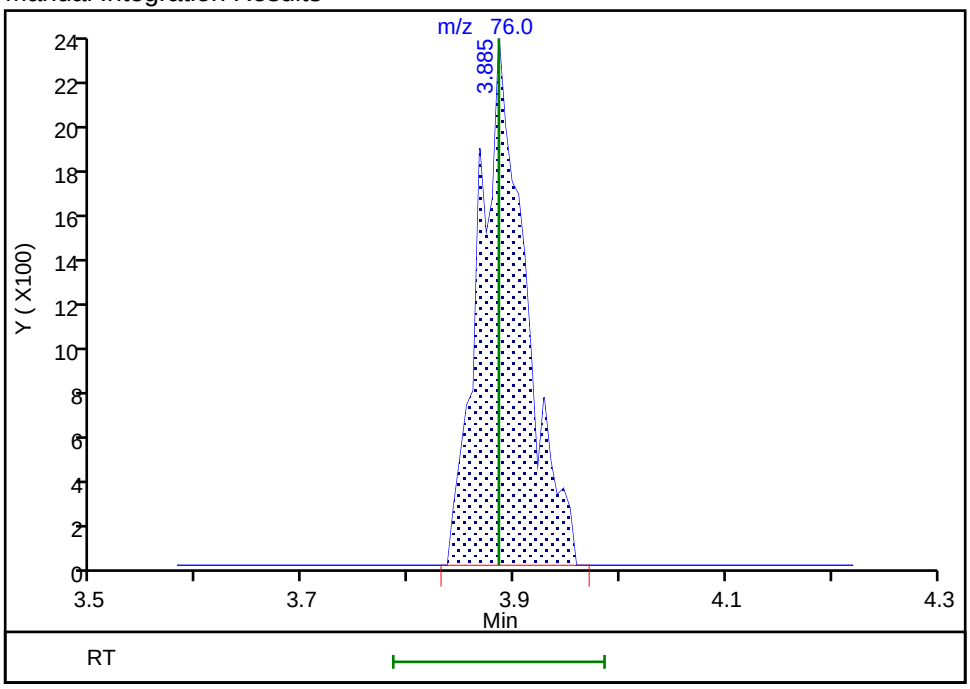
Processing Integration Results

RT: 3.89
Area: 6555
Amount: 0.039929
Amount Units: ug/l



Manual Integration Results

RT: 3.89
Area: 7347
Amount: 0.044753
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:44:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

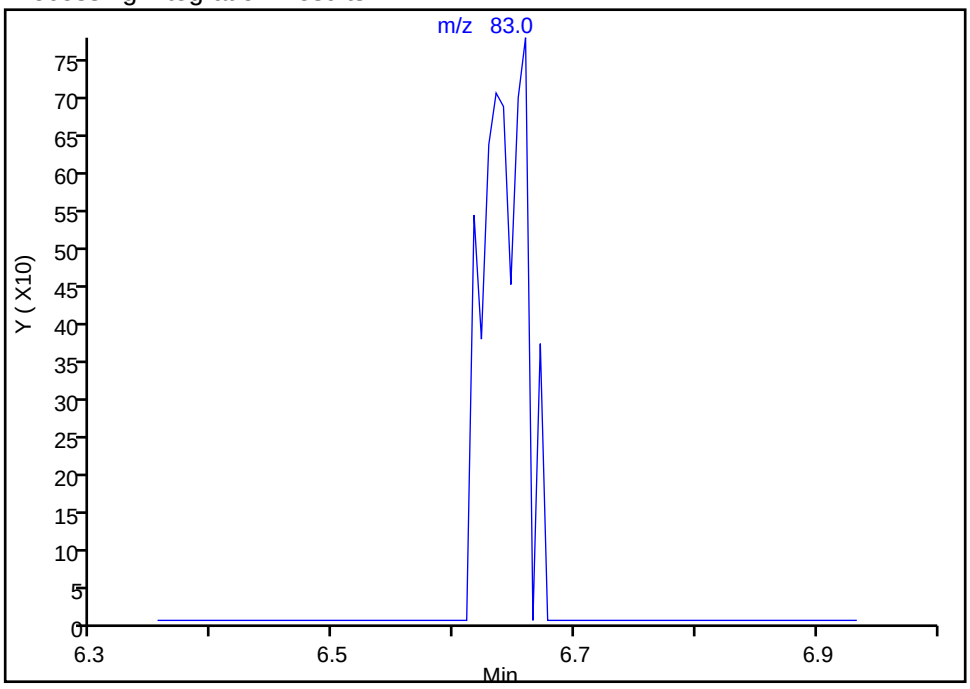
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S42.D				
Injection Date:	04-Mar-2021 01:31:30	Instrument ID:	19930		
Lims ID:	410-30627-A-7	Lab Sample ID:	410-30627-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

45 Chloroform, CAS: 67-66-3

Signal: 1

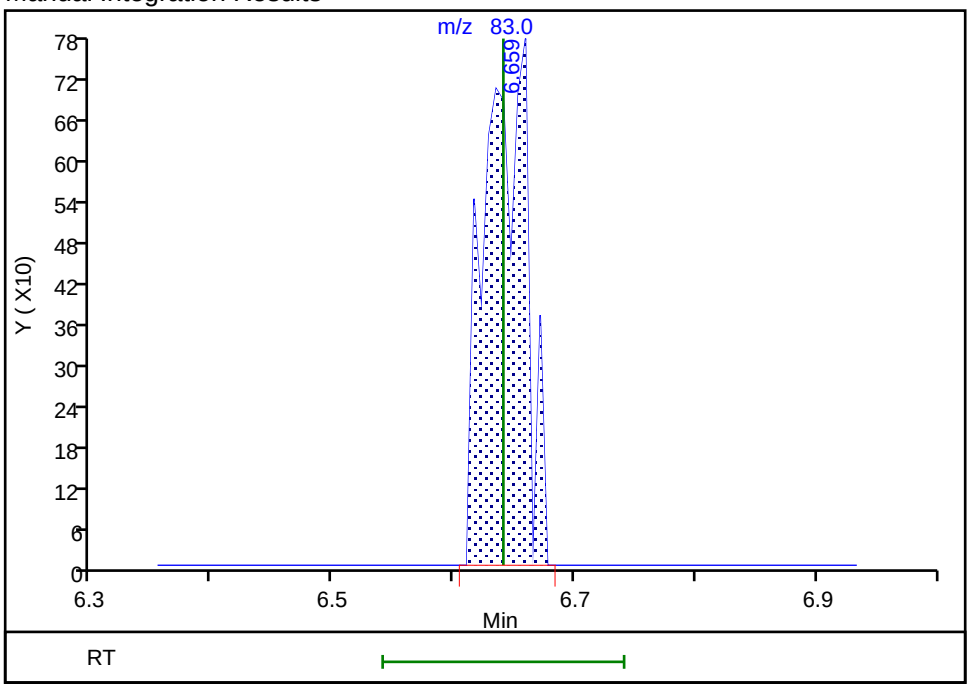
Not Detected
Expected RT: 6.64

Processing Integration Results



Manual Integration Results

RT: 6.66
Area: 1918
Amount: 0.017219
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:45:00
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

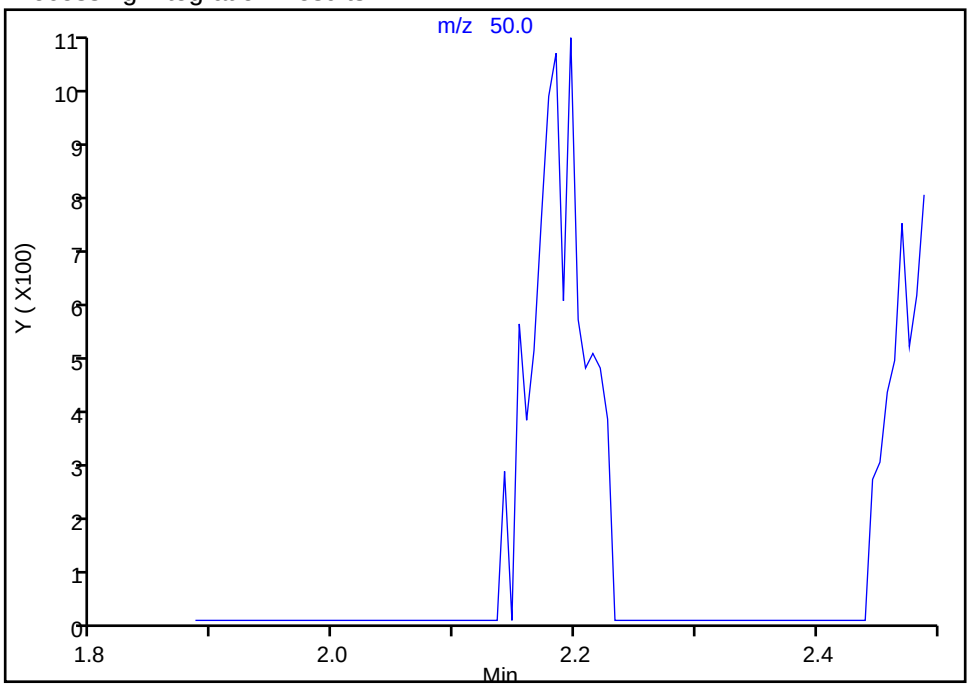
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S42.D				
Injection Date:	04-Mar-2021 01:31:30	Instrument ID:	19930		
Lims ID:	410-30627-A-7	Lab Sample ID:	410-30627-7		
Client ID:	HD-COD-SW-16-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

4 Chloromethane, CAS: 74-87-3

Signal: 1

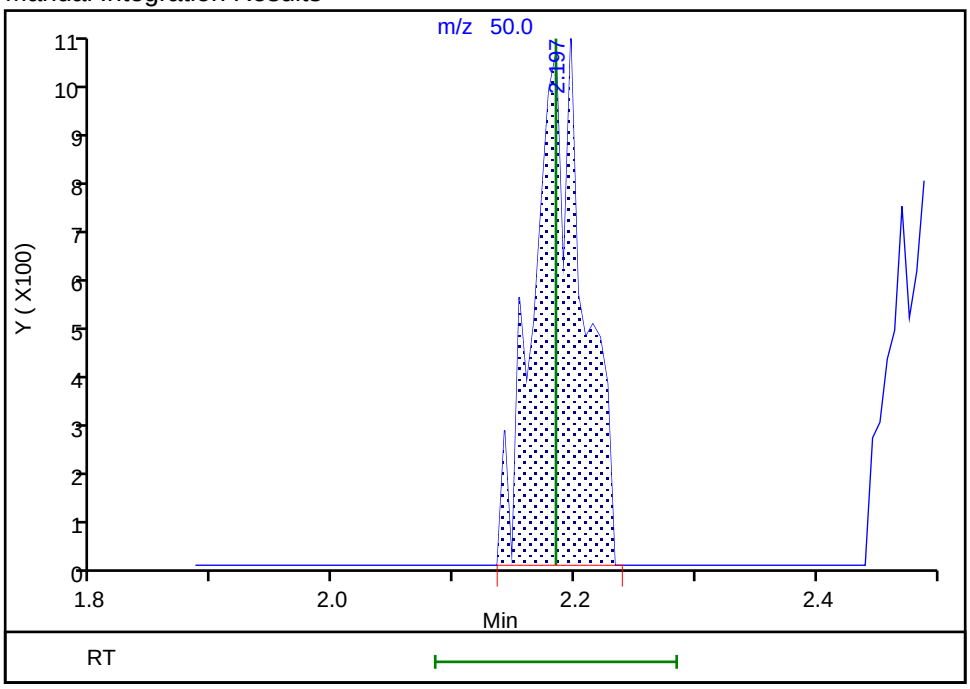
Not Detected
Expected RT: 2.18

Processing Integration Results



Manual Integration Results

RT: 2.20
Area: 3116
Amount: 0.035430
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:44:03
Audit Action: Manually Integrated Audit Reason: Missed Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0 Lab Sample ID: 410-30627-8

Matrix: Water Lab File ID: IM03S43.D

Analysis Method: 8260D Date Collected: 02/25/2021 10:40

Sample wt/vol: 25(mL) Date Analyzed: 03/04/2021 01:52

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.: 99333 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	^c	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	ND		0.50	0.090
74-87-3	Chloromethane	ND		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	0.051	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	ND		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-17-0/1-0 Lab Sample ID: 410-30627-8

Matrix: Water Lab File ID: IM03S43.D

Analysis Method: 8260D Date Collected: 02/25/2021 10:40

Sample wt/vol: 25(mL) Date Analyzed: 03/04/2021 01:52

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.: 99333 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)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		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\19930\20210303-23228.b\IM03S43.D
Lims ID: 410-30627-A-8
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 04-Mar-2021 01:52:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-021
Misc. Info.: 410-30627-A-8
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

First Level Reviewer: knouses Date: 04-Mar-2021 12:46:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.184				ND	7
5 Vinyl chloride	62		2.306				ND	
7 Bromomethane	94		2.629				ND	
8 Chloroethane	64		2.709				ND	
14 1,1-Dichloroethene	96		3.574				ND	
15 Acetone	43	3.605	3.605	0.000	98	14847	1.46	
19 Carbon disulfide	76	3.873	3.885	-0.012	68	7734	0.0477	
23 Methylene Chloride	84		4.251				ND	7
* 24 t-Butyl alcohol-d10 (IS)	65	4.263	4.275	-0.012	0	186459	50.0	
27 Methyl tert-butyl ether	73		4.659				ND	7
28 trans-1,2-Dichloroethene	96		4.672				ND	
31 1,1-Dichloroethane	63		5.330				ND	
36 2-Butanone (MEK)	43		6.122				ND	7
37 cis-1,2-Dichloroethene	96	6.171	6.159	0.012	10	3637	0.0507	M
43 Chlorobromomethane	128		6.488				ND	
45 Chloroform	83		6.641				ND	7
$ 46 Dibromofluoromethane (Surr)	113	6.848	6.854	-0.006	94	531591	10.3	
47 1,1,1-Trichloroethane	97		6.866				ND	
50 Carbon tetrachloride	117		7.080				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.305	7.305	0.000	0	106386	10.2	
54 Benzene	78		7.336				ND	7
56 1,2-Dichloroethane	62	7.409	7.409	0.000	9	2208	0.0340	M
* 58 Fluorobenzene (IS)	96	7.738	7.738	0.000	99	2098535	10.0	
61 Trichloroethene	95	8.220	8.214	0.006	86	3685	0.0529	M
63 1,2-Dichloropropane	63		8.549				ND	
68 Dichlorobromomethane	83		8.890				ND	
73 cis-1,3-Dichloropropene	75		9.433				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.597				ND	7
$ 75 Toluene-d8 (Surr)	98	9.738	9.738	0.000	93	2096967	9.76	
76 Toluene	92		9.817				ND	7
78 trans-1,3-Dichloropropene	75		10.067				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
80 1,1,2-Trichloroethane	97		10.274				ND	
81 Tetrachloroethene	166	10.366	10.366	0.000	93	4618	0.0532	
83 2-Hexanone	43		10.481				ND	
85 Chlorodibromomethane	129		10.652				ND	
86 Ethylene Dibromide	107		10.762				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	-0.001	85	1644777	10.0	
90 Chlorobenzene	112		11.213				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.298				ND	
92 Ethylbenzene	91		11.298				ND	7
93 m-Xylene & p-Xylene	106		11.414				ND	7
94 o-Xylene	106		11.743				ND	
95 Styrene	104		11.756				ND	
96 Bromoform	173		11.914				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.188	12.182	0.006	97	764390	9.61	
101 1,1,2,2-Tetrachloroethane	83		12.286				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	94	933092	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_31_826ISS_00004 Amount Added: 5.00 Units: uL Run Reagent

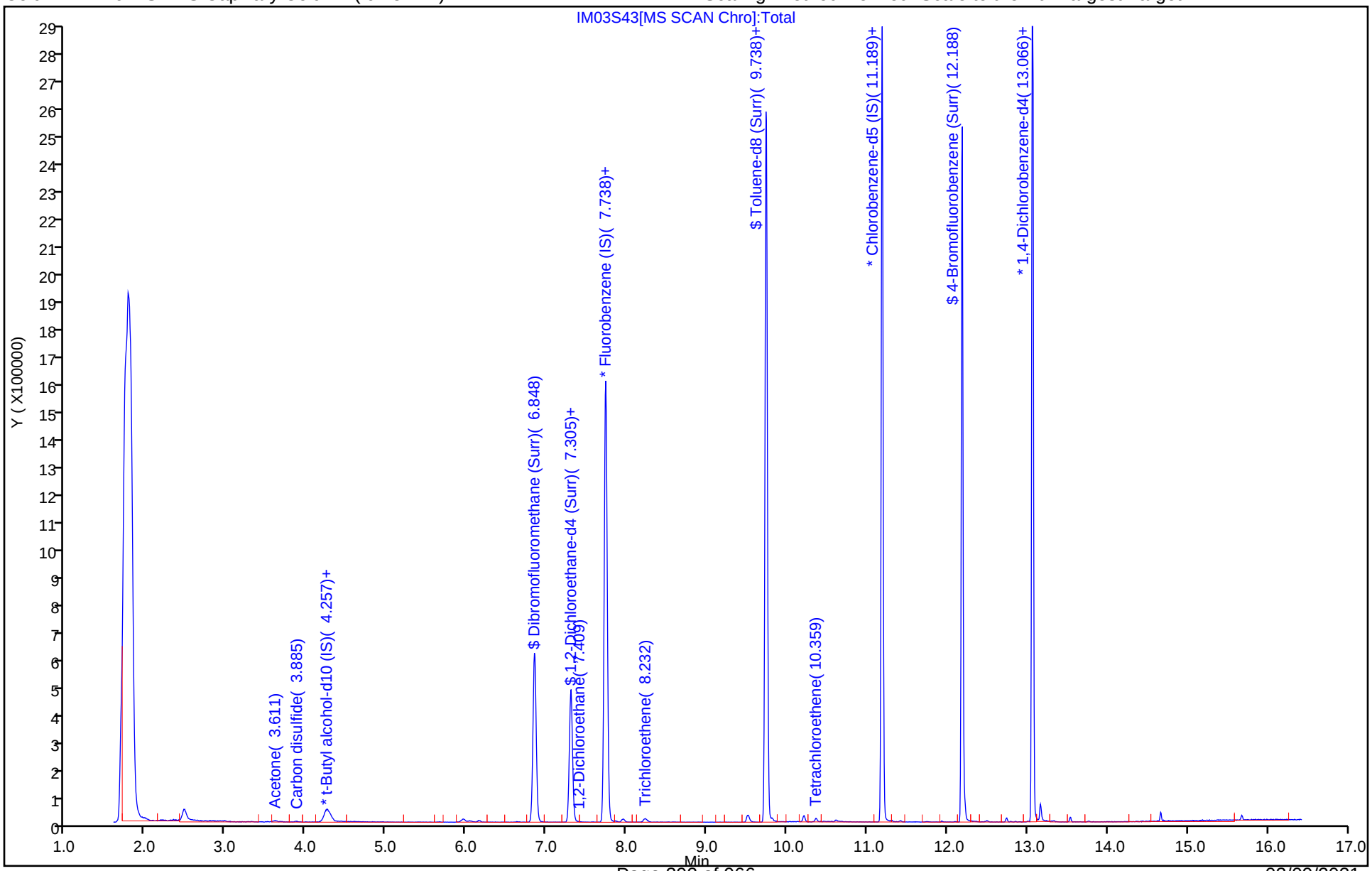
Report Date: 04-Mar-2021 13:07:19 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S43.D

Injection Date:	04-Mar-2021 01:52:30	Instrument ID:	19930	Operator ID:	MEC29284
Lims ID:	410-30627-A-8	Lab Sample ID:	410-30627-8	Worklist Smp#:	21
Client ID:	HD-COD-SW-17-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S43.D
Lims ID: 410-30627-A-8
Client ID: HD-COD-SW-17-0/1-0
Sample Type: Client
Inject. Date: 04-Mar-2021 01:52:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-021
Misc. Info.: 410-30627-A-8
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

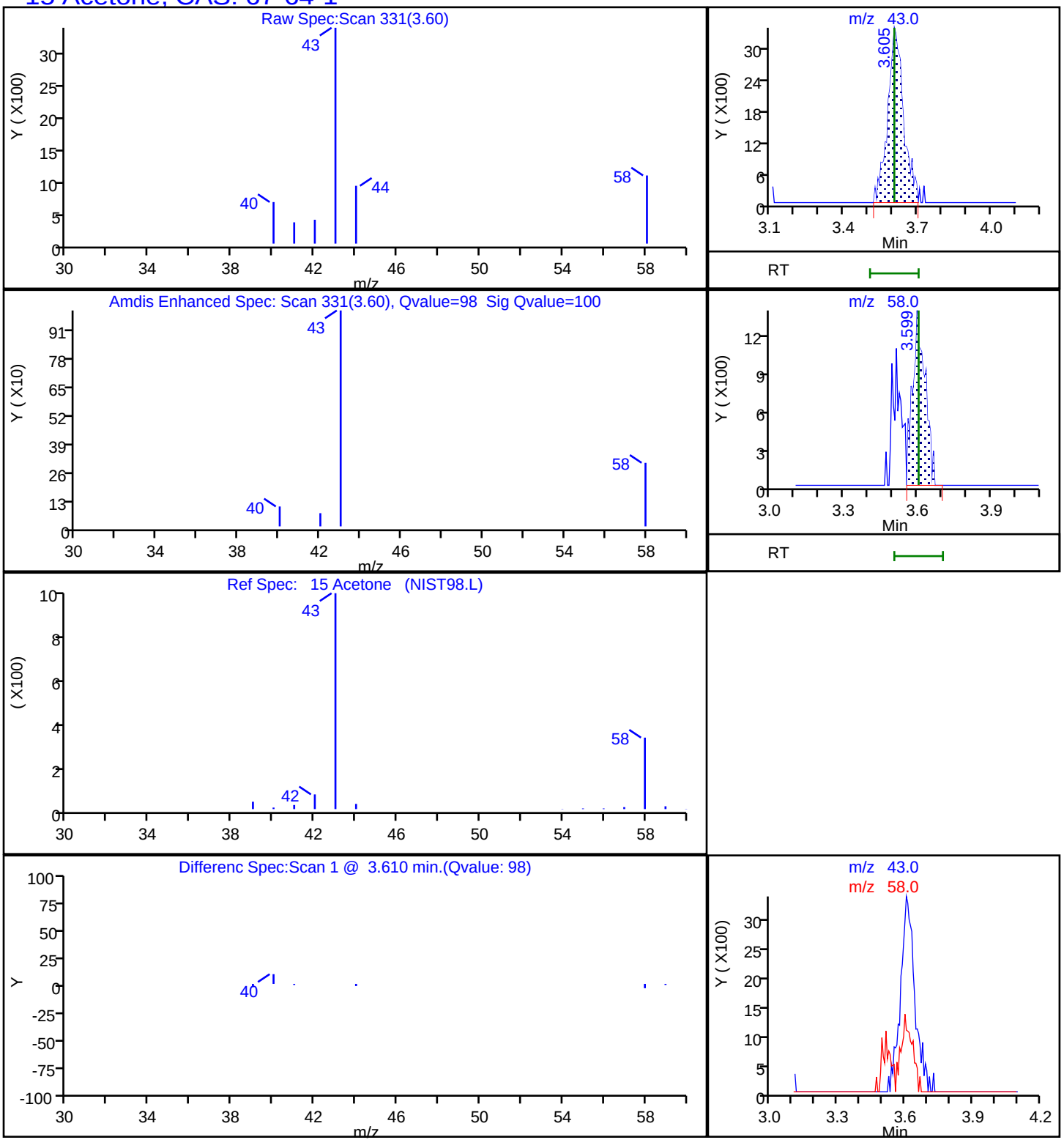
First Level Reviewer: knouses Date: 04-Mar-2021 12:46:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.3	102.59
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	101.84
$ 75 Toluene-d8 (Surr)	10.0	9.76	97.63
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.61	96.09

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S43.D				
Injection Date:	04-Mar-2021 01:52:30	Instrument ID:	19930		
Lims ID:	410-30627-A-8	Lab Sample ID:	410-30627-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

15 Acetone, CAS: 67-64-1

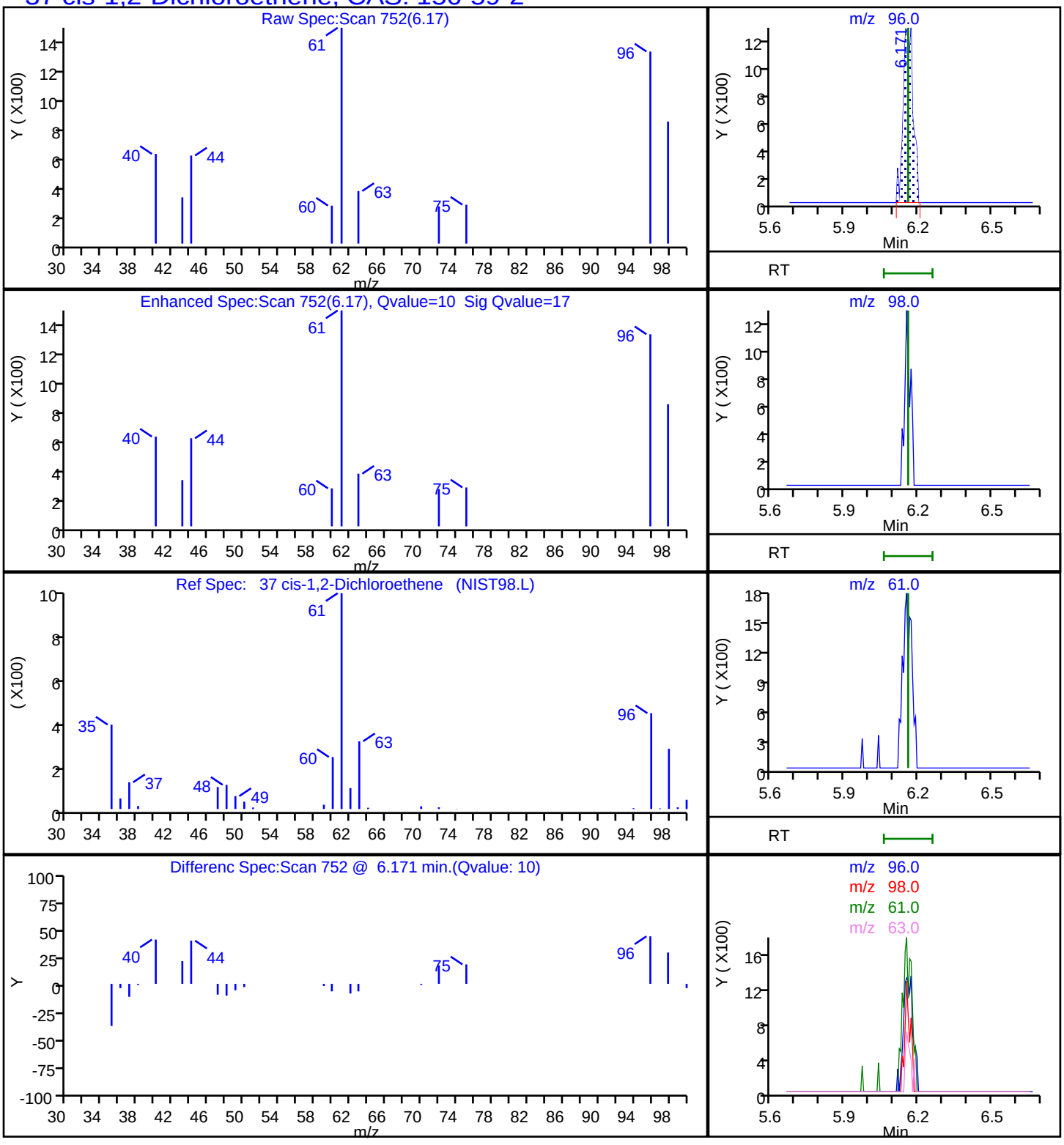


Report Date: 04-Mar-2021 13:07:19 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S43.D				
Injection Date:	04-Mar-2021 01:52:30	Instrument ID:	19930		
Lims ID:	410-30627-A-8	Lab Sample ID:	410-30627-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

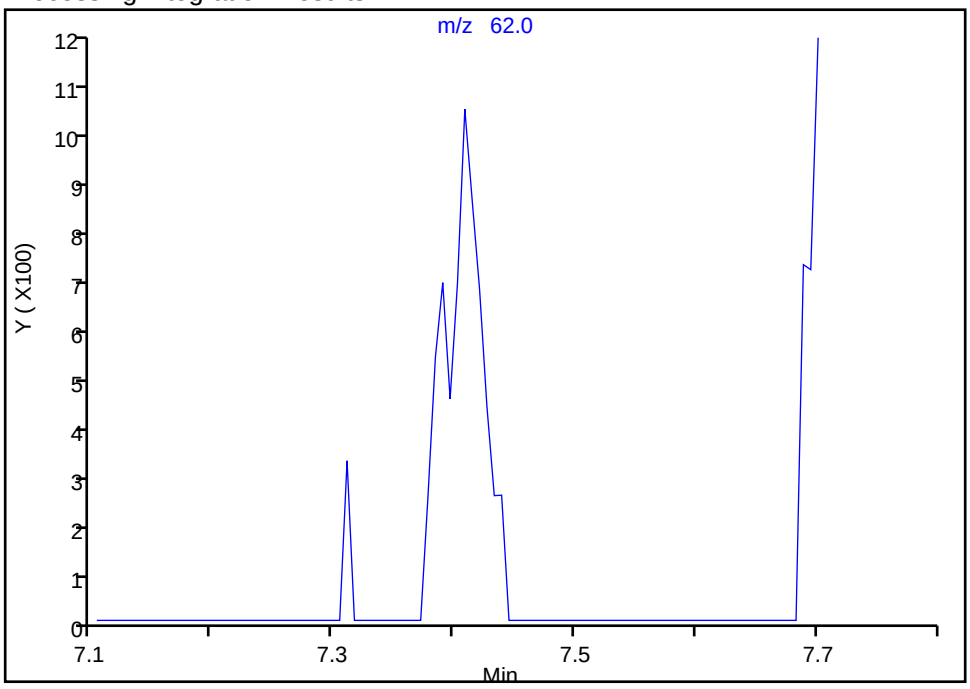
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S43.D				
Injection Date:	04-Mar-2021 01:52:30	Instrument ID:	19930		
Lims ID:	410-30627-A-8	Lab Sample ID:	410-30627-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

56 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

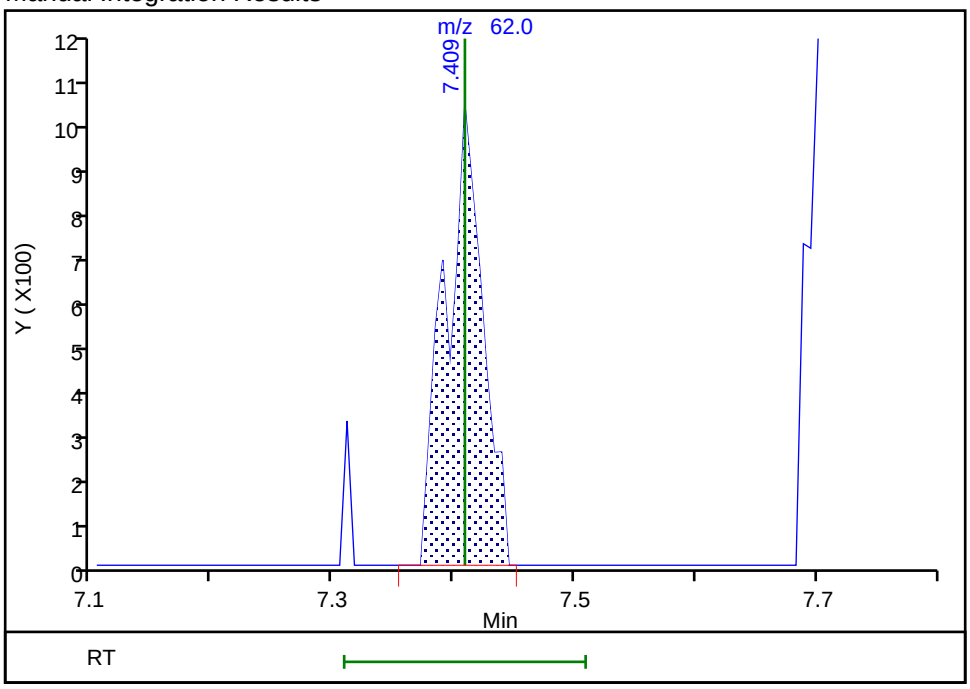
Not Detected
Expected RT: 7.41

Processing Integration Results



Manual Integration Results

RT: 7.41
Area: 2208
Amount: 0.034011
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:46:21
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

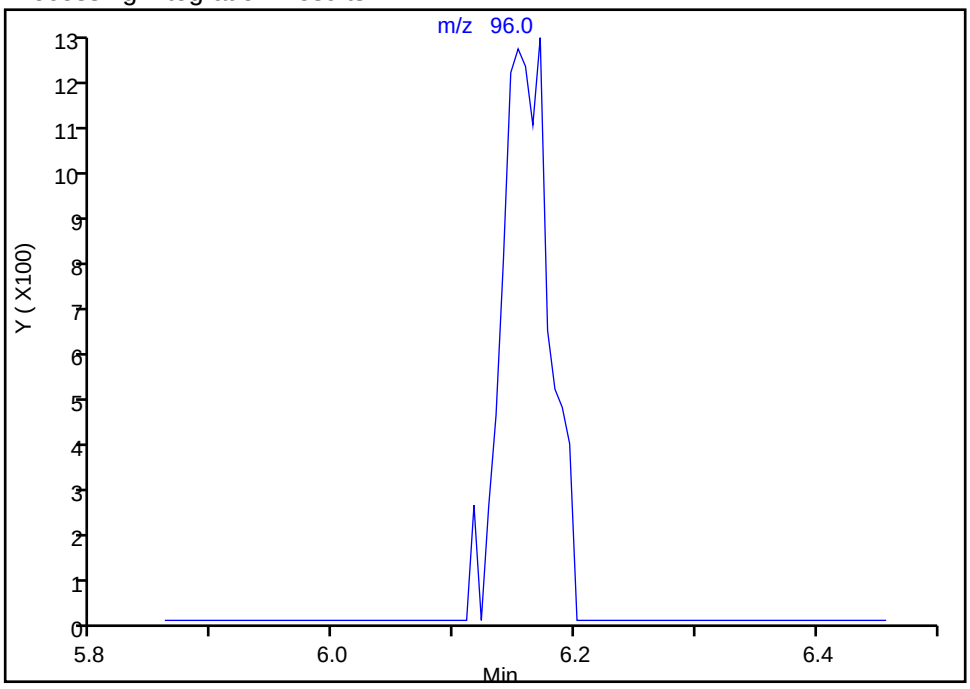
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S43.D				
Injection Date:	04-Mar-2021 01:52:30	Instrument ID:	19930		
Lims ID:	410-30627-A-8	Lab Sample ID:	410-30627-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

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

Signal: 1

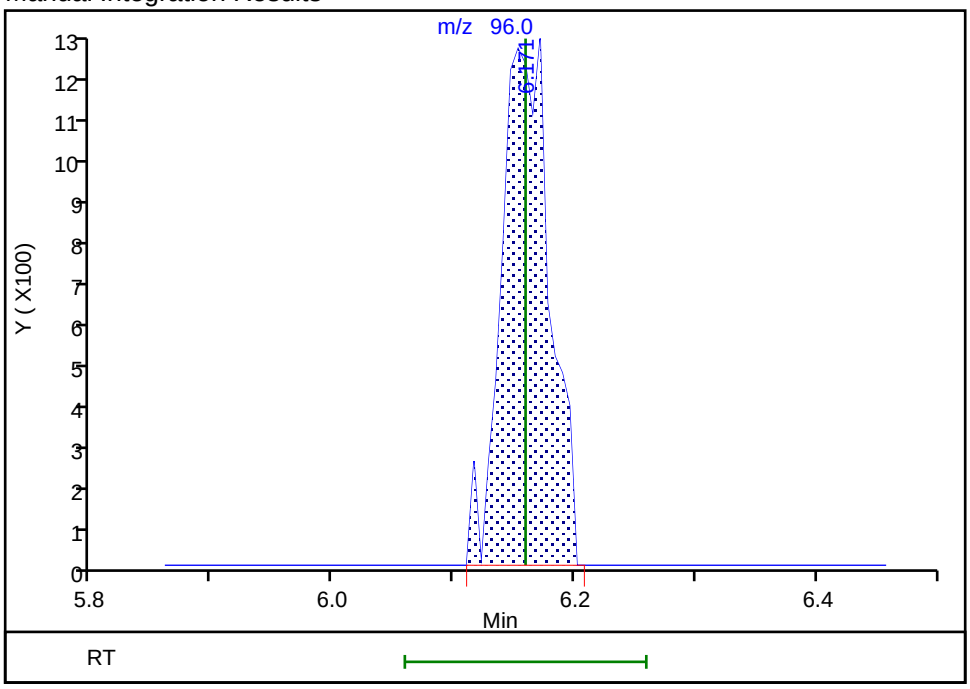
Not Detected
Expected RT: 6.16

Processing Integration Results



Manual Integration Results

RT: 6.17
Area: 3637
Amount: 0.050671
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:46:08
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

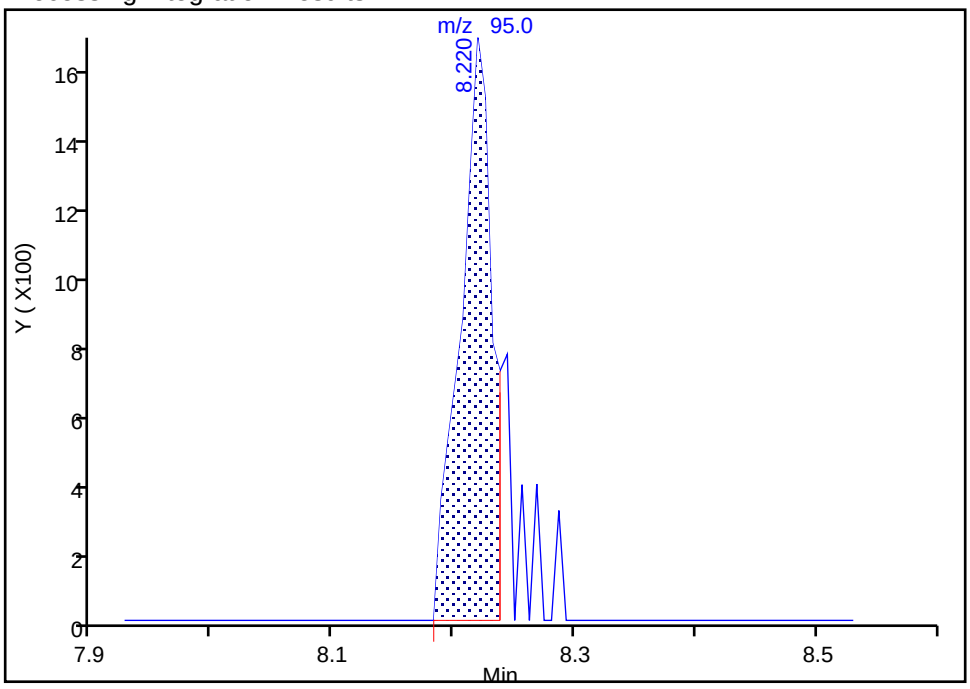
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S43.D				
Injection Date:	04-Mar-2021 01:52:30	Instrument ID:	19930		
Lims ID:	410-30627-A-8	Lab Sample ID:	410-30627-8		
Client ID:	HD-COD-SW-17-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

61 Trichloroethene, CAS: 79-01-6

Signal: 1

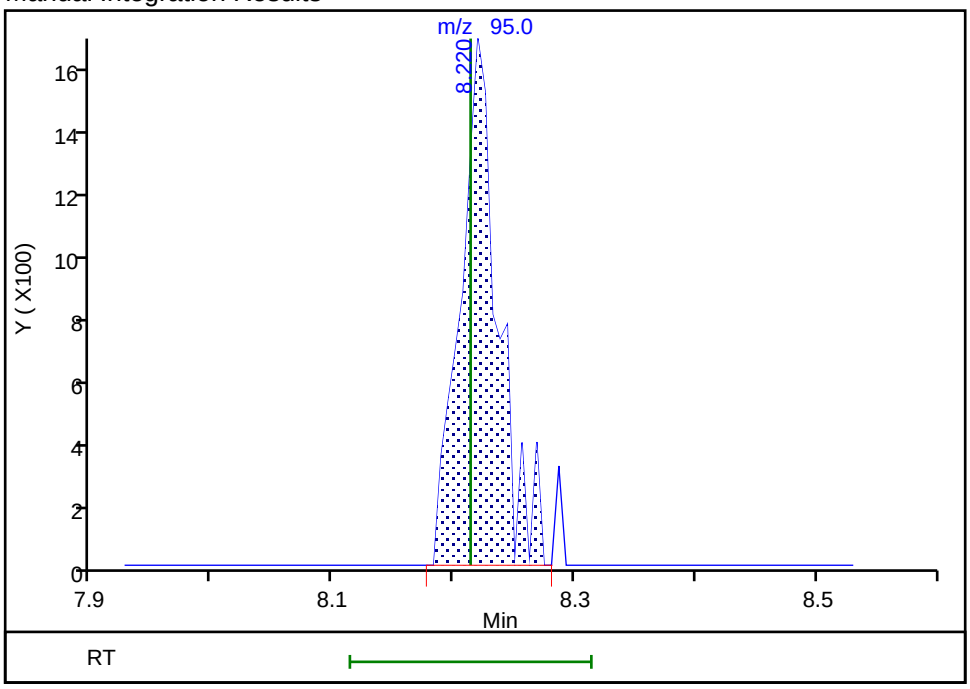
Processing Integration Results

RT: 8.22
Area: 3114
Amount: 0.044743
Amount Units: ug/l



Manual Integration Results

RT: 8.22
Area: 3685
Amount: 0.052947
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:46:39

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.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-26-0/1-0 Lab Sample ID: 410-30627-9

Matrix: Water Lab File ID: IM03S44.D

Analysis Method: 8260D Date Collected: 02/25/2021 11:25

Sample wt/vol: 25(mL) Date Analyzed: 03/04/2021 02:13

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.: 99333 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	^c	5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70
67-64-1	Acetone	1.4	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	0.11	J	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	0.42	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	ND		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-26-0/1-0 Lab Sample ID: 410-30627-9

Matrix: Water Lab File ID: IM03S44.D

Analysis Method: 8260D Date Collected: 02/25/2021 11:25

Sample wt/vol: 25(mL) Date Analyzed: 03/04/2021 02:13

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.: 99333 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)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		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\19930\20210303-23228.b\IM03S44.D
Lims ID: 410-30627-A-9
Client ID: HD-COD-SW-26-0/1-0
Sample Type: Client
Inject. Date: 04-Mar-2021 02:13:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-022
Misc. Info.: 410-30627-A-9
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

First Level Reviewer: knouses Date: 04-Mar-2021 12:47:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.184				ND	7
5 Vinyl chloride	62		2.306				ND	
7 Bromomethane	94		2.629				ND	
8 Chloroethane	64		2.709				ND	
14 1,1-Dichloroethene	96		3.574				ND	7
15 Acetone	43	3.605	3.605	0.000	97	14112	1.43	
19 Carbon disulfide	76	3.873	3.885	-0.012	76	8001	0.0506	
23 Methylene Chloride	84		4.251				ND	7
* 24 t-Butyl alcohol-d10 (IS)	65	4.257	4.275	-0.018	0	181118	50.0	
27 Methyl tert-butyl ether	73		4.659				ND	7
28 trans-1,2-Dichloroethene	96		4.672				ND	
31 1,1-Dichloroethane	63		5.330				ND	
36 2-Butanone (MEK)	43		6.122				ND	7
37 cis-1,2-Dichloroethene	96	6.153	6.159	-0.006	76	2941	0.0421	
43 Chlorobromomethane	128		6.488				ND	
45 Chloroform	83	6.641	6.641	0.000	89	12194	0.1137	
$ 46 Dibromofluoromethane (Surr)	113	6.848	6.854	-0.006	93	519498	10.3	
47 1,1,1-Trichloroethane	97		6.866				ND	
50 Carbon tetrachloride	117		7.080				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.305	7.305	0.000	0	104648	10.3	
54 Benzene	78		7.336				ND	7
56 1,2-Dichloroethane	62	7.403	7.409	-0.006	1	2139	0.0338	M
* 58 Fluorobenzene (IS)	96	7.738	7.738	0.000	99	2044499	10.0	
61 Trichloroethene	95	8.219	8.214	0.005	93	3940	0.0581	
63 1,2-Dichloropropane	63		8.549				ND	
68 Dichlorobromomethane	83		8.890				ND	7
73 cis-1,3-Dichloropropene	75		9.433				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.597				ND	7
$ 75 Toluene-d8 (Surr)	98	9.737	9.738	-0.001	93	2026406	9.77	
76 Toluene	92	9.817	9.817	0.000	96	5379	0.0310	
78 trans-1,3-Dichloropropene	75		10.067				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
80 1,1,2-Trichloroethane	97		10.274				ND	
81 Tetrachloroethene	166	10.359	10.366	-0.007	98	35474	0.4230	
83 2-Hexanone	43		10.481				ND	
85 Chlorodibromomethane	129		10.652				ND	
86 Ethylene Dibromide	107		10.762				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.188	11.189	-0.001	85	1588889	10.0	
90 Chlorobenzene	112		11.213				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.298				ND	
92 Ethylbenzene	91		11.298				ND	7
93 m-Xylene & p-Xylene	106		11.414				ND	7
94 o-Xylene	106		11.743				ND	7
95 Styrene	104		11.756				ND	
96 Bromoform	173		11.914				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.188	12.182	0.006	95	747931	9.73	
101 1,1,2,2-Tetrachloroethane	83		12.286				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	94	907388	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_31_826ISS_00004 Amount Added: 5.00 Units: uL Run Reagent

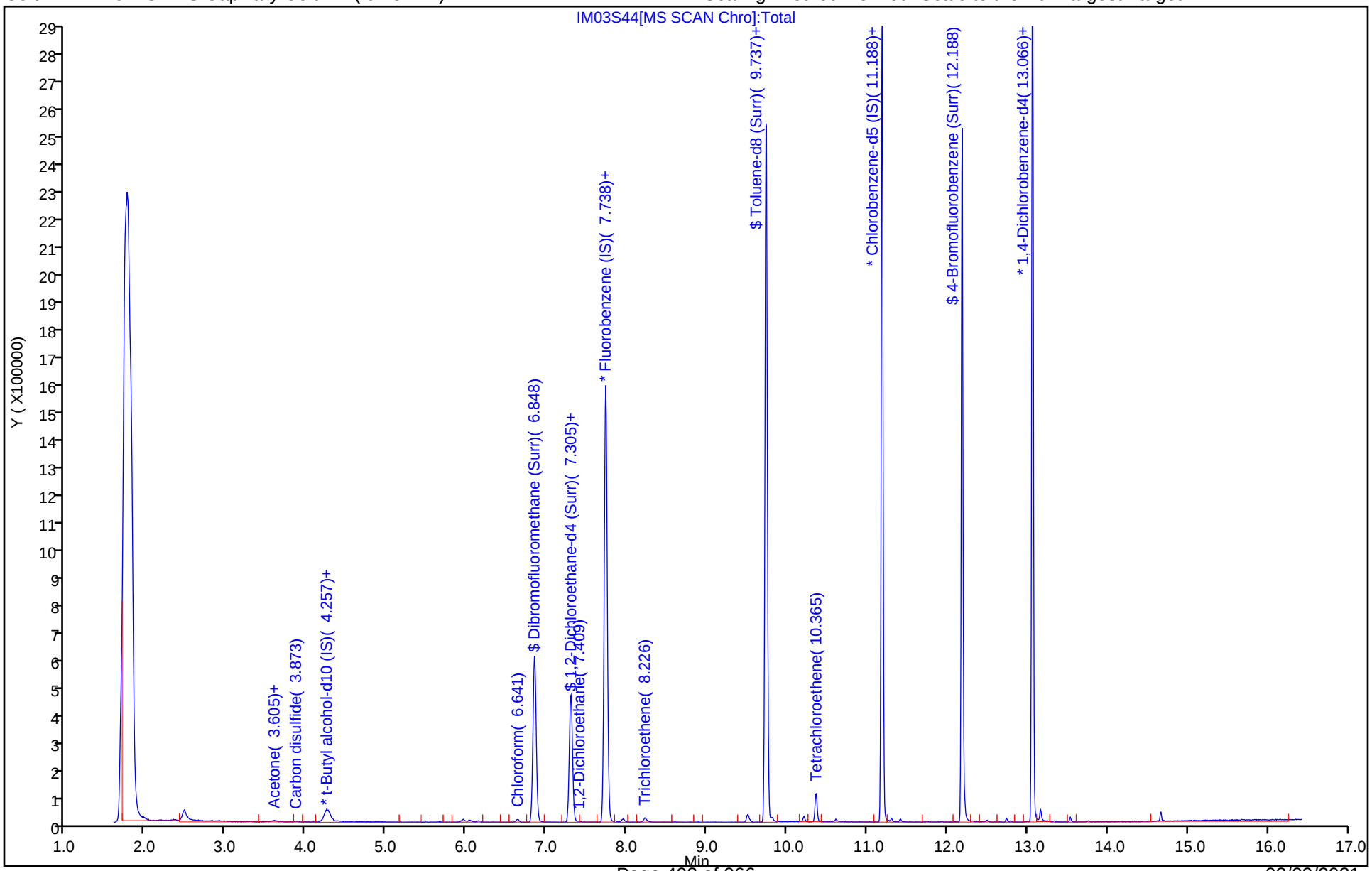
Report Date: 04-Mar-2021 13:07:21 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S44.D

Injection Date:	04-Mar-2021 02:13:30	Instrument ID:	19930	Operator ID:	MEC29284
Lims ID:	410-30627-A-9	Lab Sample ID:	410-30627-9	Worklist Smp#:	22
Client ID:	HD-COD-SW-26-0/1-0				
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: 2



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S44.D
Lims ID: 410-30627-A-9
Client ID: HD-COD-SW-26-0/1-0
Sample Type: Client
Inject. Date: 04-Mar-2021 02:13:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-022
Misc. Info.: 410-30627-A-9
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

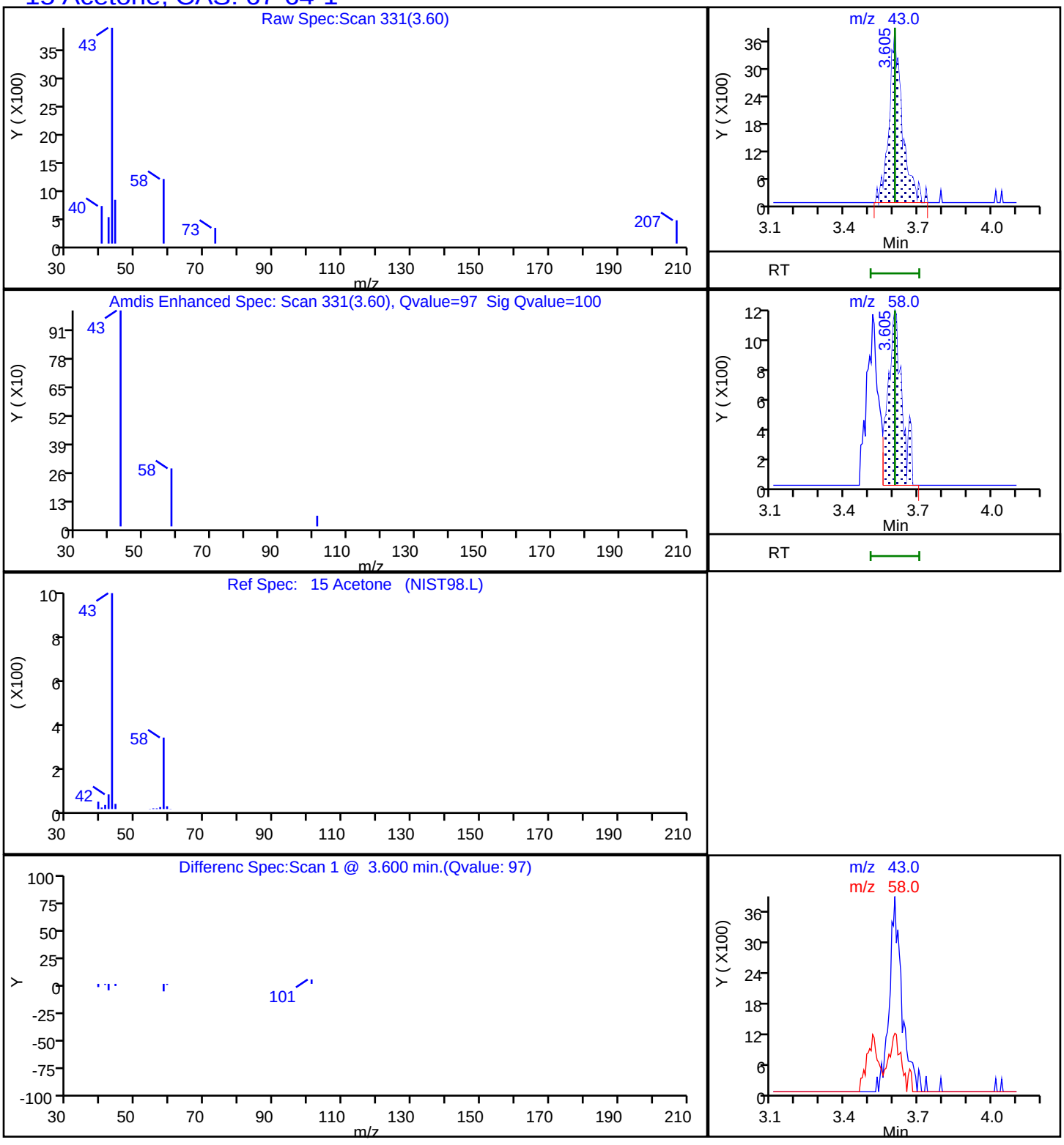
First Level Reviewer: knouses Date: 04-Mar-2021 12:47:44

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.3	102.91
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	102.82
$ 75 Toluene-d8 (Surr)	10.0	9.77	97.66
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.73	97.33

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S44.D				
Injection Date:	04-Mar-2021 02:13:30	Instrument ID:	19930		
Lims ID:	410-30627-A-9	Lab Sample ID:	410-30627-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	MEC29284	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		

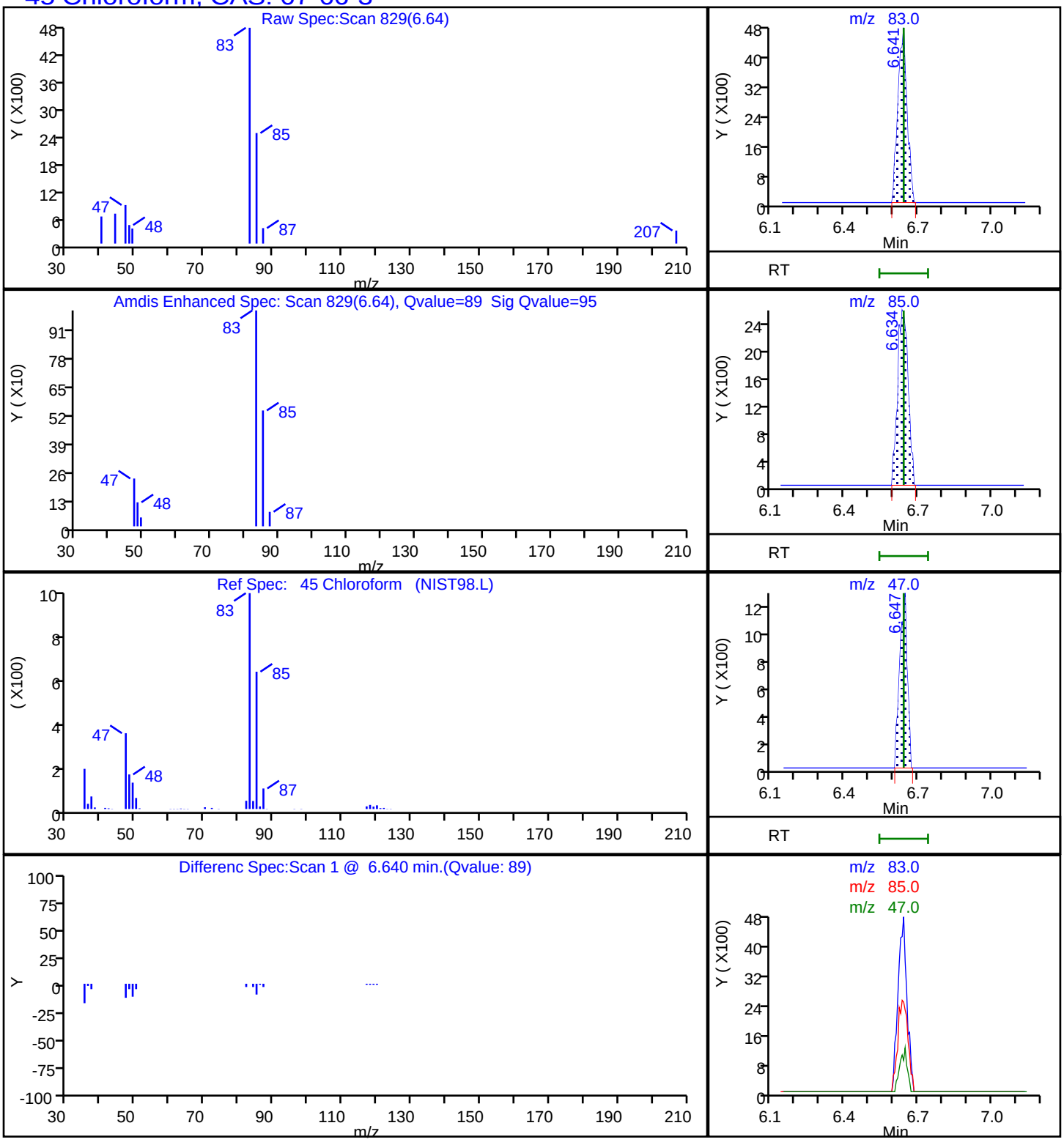
15 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S44.D				
Injection Date:	04-Mar-2021 02:13:30	Instrument ID:	19930		
Lims ID:	410-30627-A-9	Lab Sample ID:	410-30627-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	MEC29284	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		

45 Chloroform, CAS: 67-66-3



Report Date: 04-Mar-2021 13:07:22 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S44.D

Injection Date: 04-Mar-2021 02:13:30 Instrument ID: 19930

Lims ID: 410-30627-A-9 Lab Sample ID: 410-30627-9

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

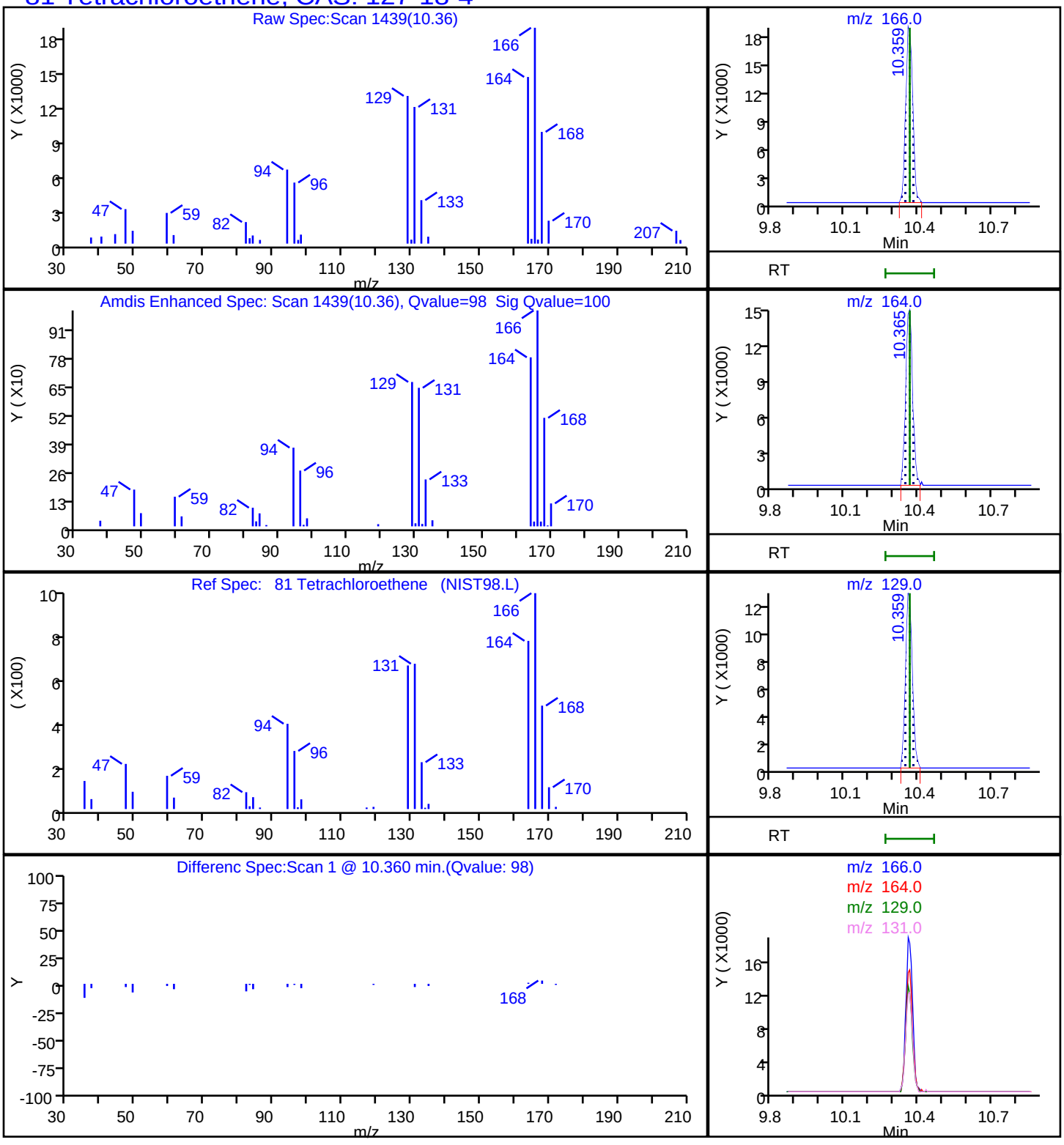
Operator ID: MEC29284 ALS Bottle#: 21 Worklist Smp#: 22

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

81 Tetrachloroethene, CAS: 127-18-4



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

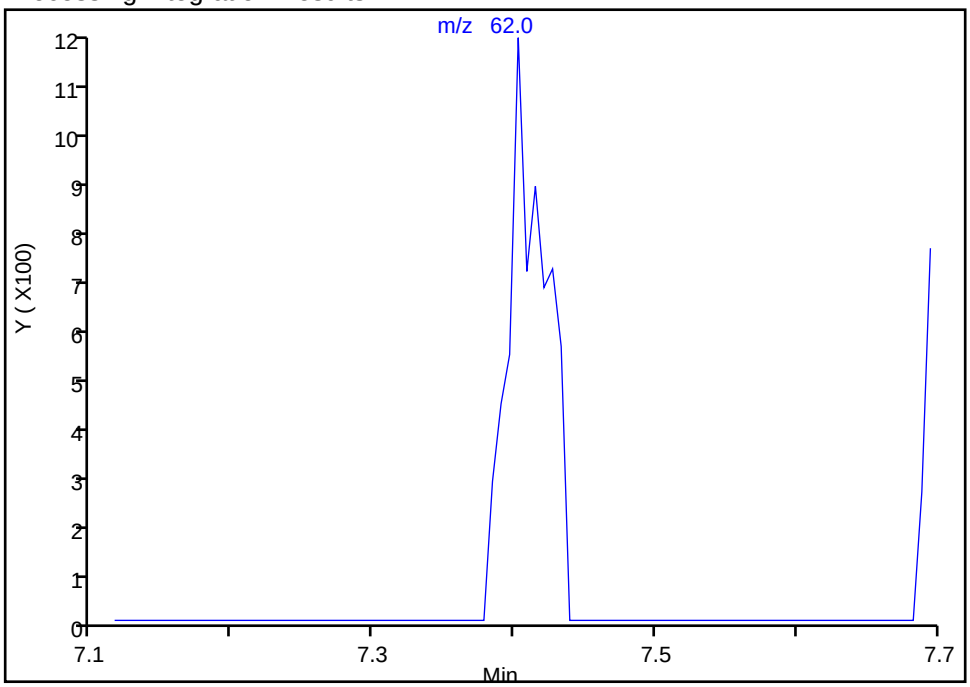
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S44.D				
Injection Date:	04-Mar-2021 02:13:30	Instrument ID:	19930		
Lims ID:	410-30627-A-9	Lab Sample ID:	410-30627-9		
Client ID:	HD-COD-SW-26-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

56 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

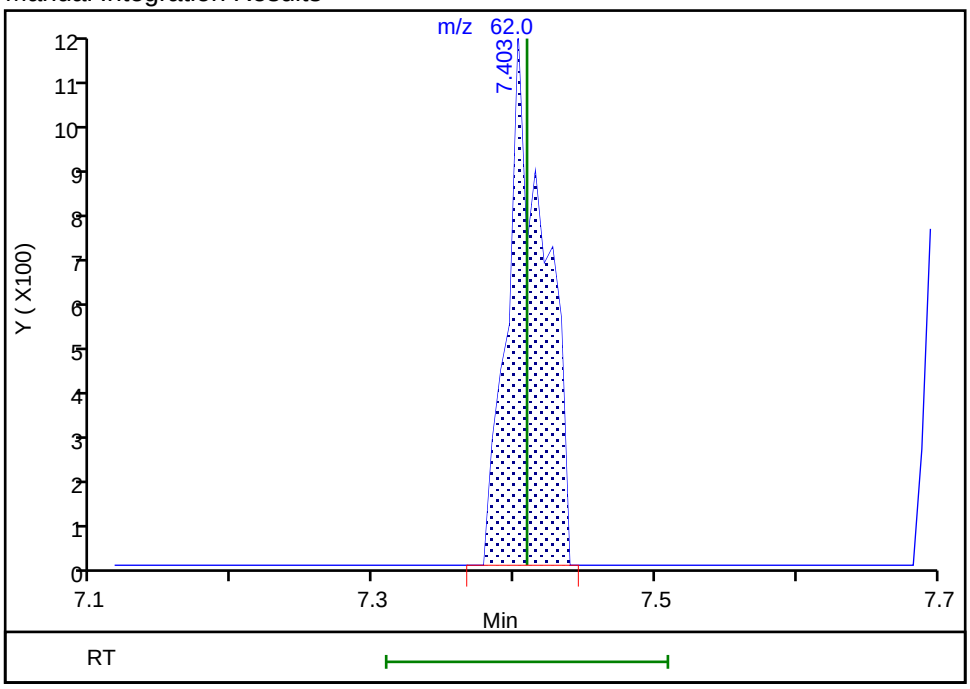
Not Detected
Expected RT: 7.41

Processing Integration Results



Manual Integration Results

RT: 7.40
Area: 2139
Amount: 0.033819
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:47:29
Audit Action: Manually Integrated Audit Reason: Missed Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-27-0/1-0 Lab Sample ID: 410-30627-10

Matrix: Water Lab File ID: IM03S45.D

Analysis Method: 8260D Date Collected: 02/25/2021 12:05

Sample wt/vol: 25(mL) Date Analyzed: 03/04/2021 02:35

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.: 99333 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	^c	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	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	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	0.063	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	ND		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-27-0/1-0 Lab Sample ID: 410-30627-10

Matrix: Water Lab File ID: IM03S45.D

Analysis Method: 8260D Date Collected: 02/25/2021 12:05

Sample wt/vol: 25(mL) Date Analyzed: 03/04/2021 02:35

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.: 99333 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)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		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\19930\20210303-23228.b\IM03S45.D
Lims ID: 410-30627-A-10
Client ID: HD-COD-SW-27-0/1-0
Sample Type: Client
Inject. Date: 04-Mar-2021 02:35:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-023
Misc. Info.: 410-30627-A-10
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

First Level Reviewer: knouses Date: 04-Mar-2021 12:49:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.184				ND	7
5 Vinyl chloride	62		2.306				ND	
7 Bromomethane	94		2.629				ND	
8 Chloroethane	64		2.709				ND	
14 1,1-Dichloroethene	96		3.574				ND	
15 Acetone	43	3.617	3.605	0.012	100	14353	1.53	
19 Carbon disulfide	76	3.873	3.885	-0.012	95	10012	0.0617	
23 Methylene Chloride	84		4.251				ND	7
* 24 t-Butyl alcohol-d10 (IS)	65	4.269	4.275	-0.006	0	171510	50.0	
27 Methyl tert-butyl ether	73		4.659				ND	
28 trans-1,2-Dichloroethene	96		4.672				ND	
31 1,1-Dichloroethane	63		5.330				ND	
36 2-Butanone (MEK)	43		6.122				ND	7
37 cis-1,2-Dichloroethene	96	6.153	6.159	-0.006	69	3021	0.0421	
43 Chlorobromomethane	128		6.488				ND	
45 Chloroform	83	6.635	6.641	-0.006	19	3069	0.0279	M
$ 46 Dibromofluoromethane (Surr)	113	6.848	6.854	-0.006	94	536593	10.4	
47 1,1,1-Trichloroethane	97		6.866				ND	
50 Carbon tetrachloride	117		7.080				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.311	7.305	0.006	0	105842	10.1	
54 Benzene	78	7.330	7.336	-0.006	85	3499	0.0132	M
56 1,2-Dichloroethane	62	7.415	7.409	0.006	2	2139	0.0330	M
* 58 Fluorobenzene (IS)	96	7.738	7.738	0.000	99	2097826	10.0	
61 Trichloroethene	95	8.226	8.214	0.012	86	3904	0.0561	
63 1,2-Dichloropropane	63		8.549				ND	
68 Dichlorobromomethane	83		8.890				ND	
73 cis-1,3-Dichloropropene	75		9.433				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.597				ND	
$ 75 Toluene-d8 (Surr)	98	9.744	9.738	0.006	93	2088941	9.74	
76 Toluene	92	9.823	9.817	0.006	97	5853	0.0327	
78 trans-1,3-Dichloropropene	75		10.067				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
80 1,1,2-Trichloroethane	97		10.274				ND	
81 Tetrachloroethene	166	10.372	10.366	0.006	94	5485	0.0633	
83 2-Hexanone	43		10.481				ND	
85 Chlorodibromomethane	129		10.652				ND	
86 Ethylene Dibromide	107		10.762				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	0.000	85	1641455	10.0	
90 Chlorobenzene	112		11.213				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.298				ND	
92 Ethylbenzene	91		11.298				ND	7
93 m-Xylene & p-Xylene	106		11.414				ND	7
94 o-Xylene	106		11.743				ND	7
95 Styrene	104		11.756				ND	
96 Bromoform	173		11.914				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.188	12.182	0.006	96	764193	9.63	
101 1,1,2,2-Tetrachloroethane	83		12.286				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	94	934420	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

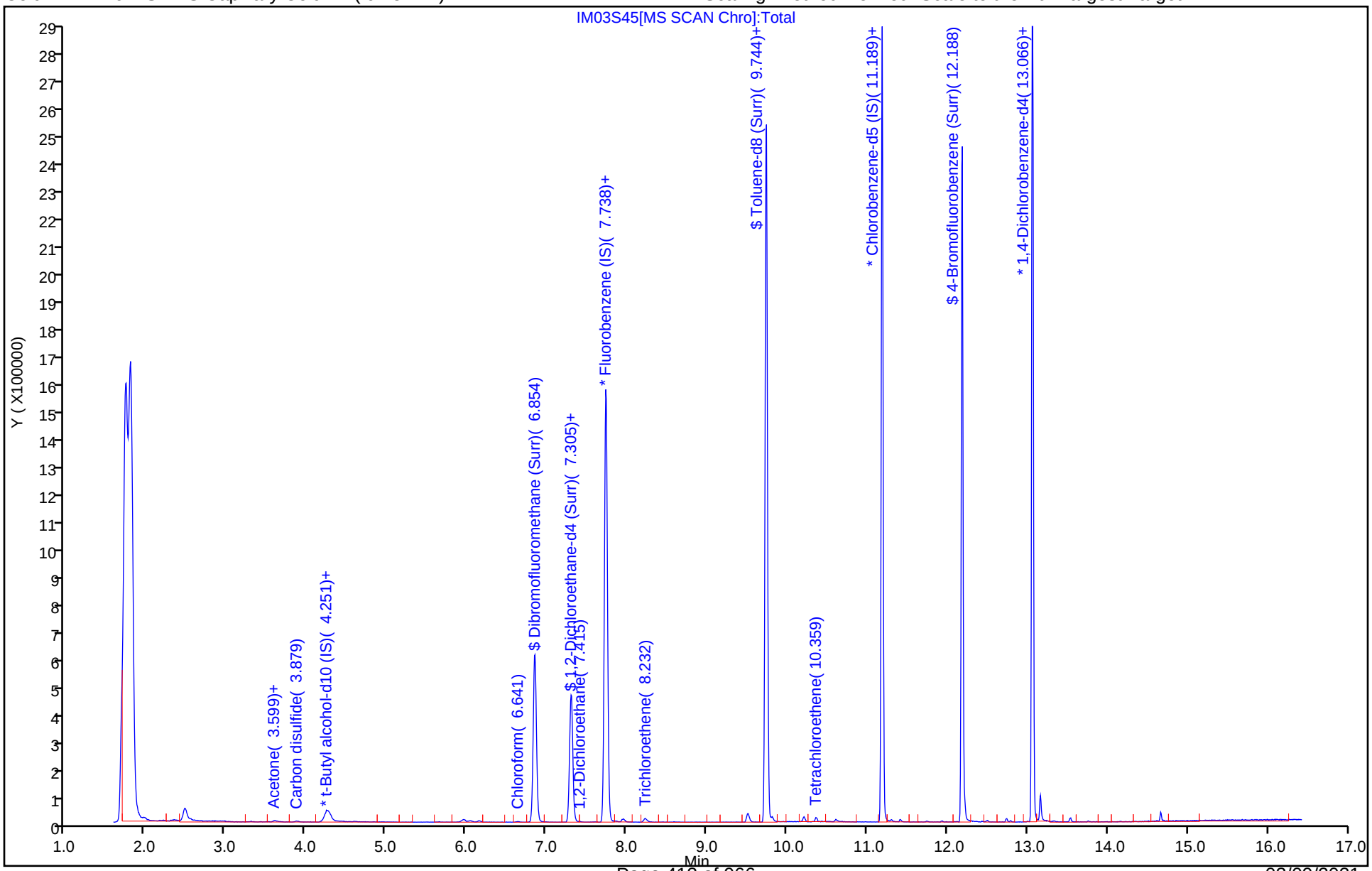
MSV_31_826ISS_00004 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 04-Mar-2021 13:07:24 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S45.D				
Injection Date:	04-Mar-2021 02:35:30	Instrument ID:	19930	Operator ID:	MEC29284
Lims ID:	410-30627-A-10	Lab Sample ID:	410-30627-10	Worklist Smp#:	23
Client ID:	HD-COD-SW-27-0/1-0				
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: 2



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S45.D
Lims ID: 410-30627-A-10
Client ID: HD-COD-SW-27-0/1-0
Sample Type: Client
Inject. Date: 04-Mar-2021 02:35:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-023
Misc. Info.: 410-30627-A-10
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

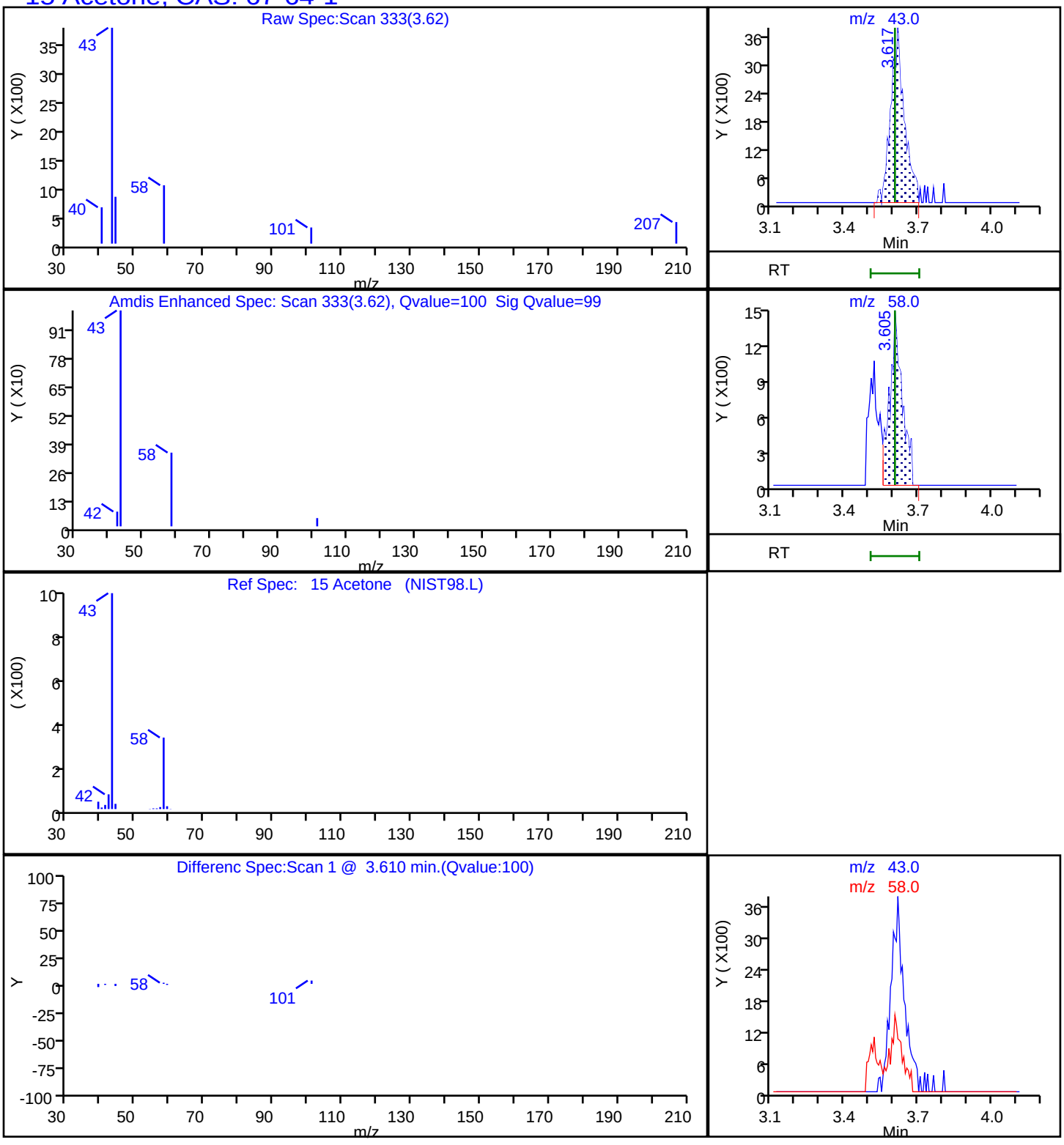
First Level Reviewer: knouses Date: 04-Mar-2021 12:49:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.4	103.59
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	101.35
$ 75 Toluene-d8 (Surr)	10.0	9.74	97.45
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.63	96.26

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S45.D				
Injection Date:	04-Mar-2021 02:35:30	Instrument ID:	19930		
Lims ID:	410-30627-A-10	Lab Sample ID:	410-30627-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	MEC29284	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		

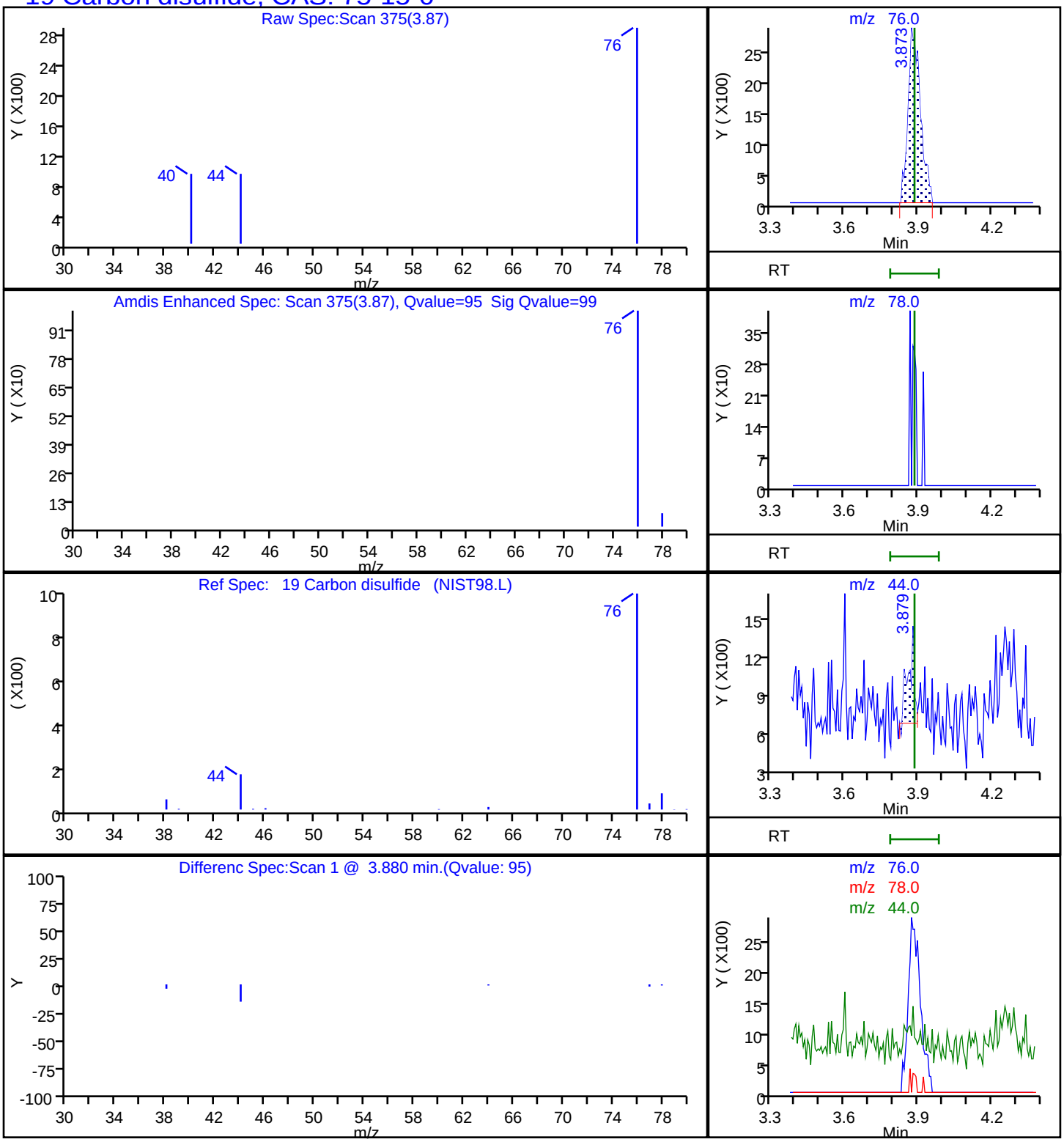
15 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S45.D				
Injection Date:	04-Mar-2021 02:35:30	Instrument ID:	19930		
Lims ID:	410-30627-A-10	Lab Sample ID:	410-30627-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	MEC29284	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		

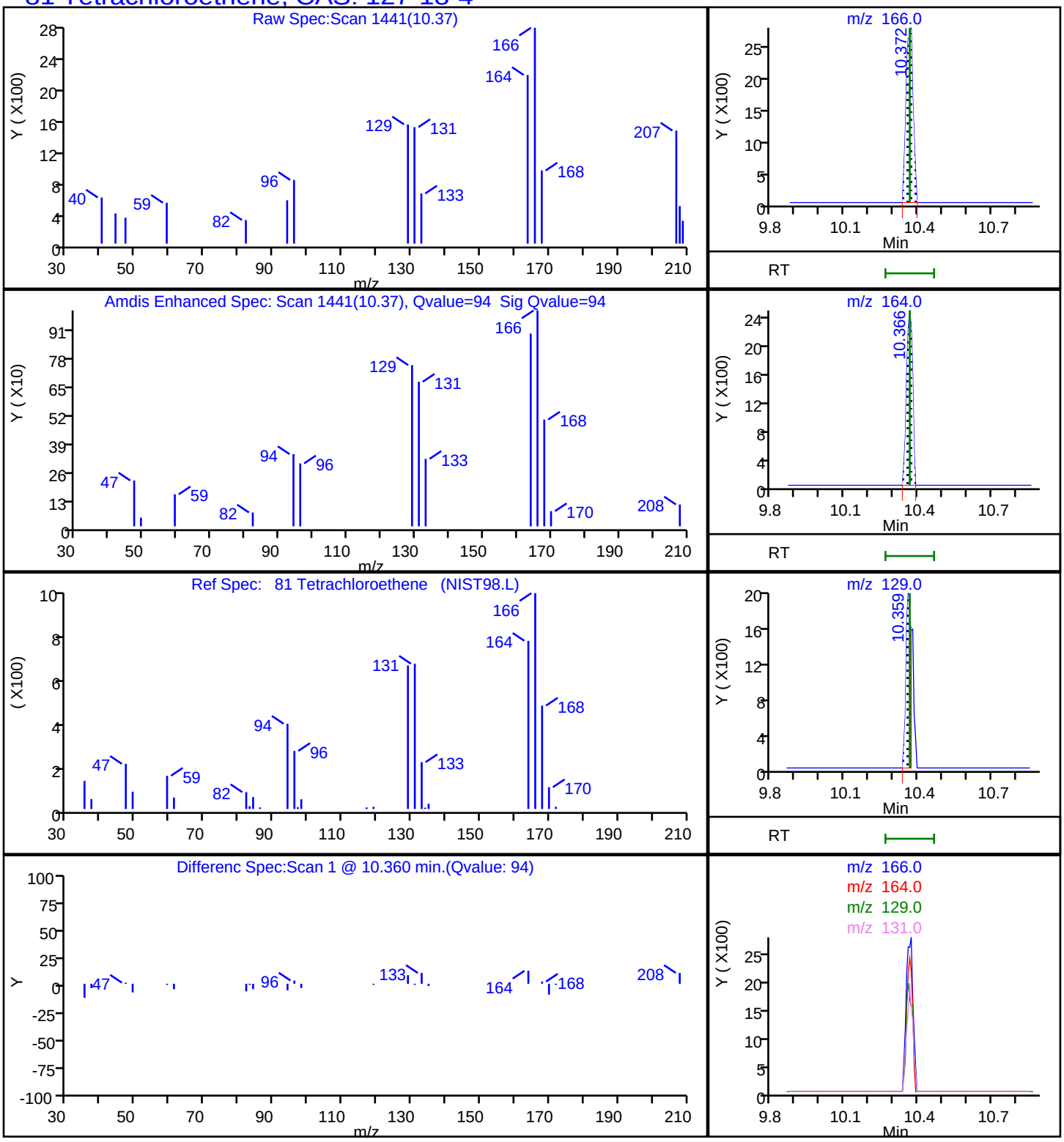
19 Carbon disulfide, CAS: 75-15-0



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S45.D				
Injection Date:	04-Mar-2021 02:35:30	Instrument ID:	19930		
Lims ID:	410-30627-A-10	Lab Sample ID:	410-30627-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	MEC29284	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		

81 Tetrachloroethene, CAS: 127-18-4



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

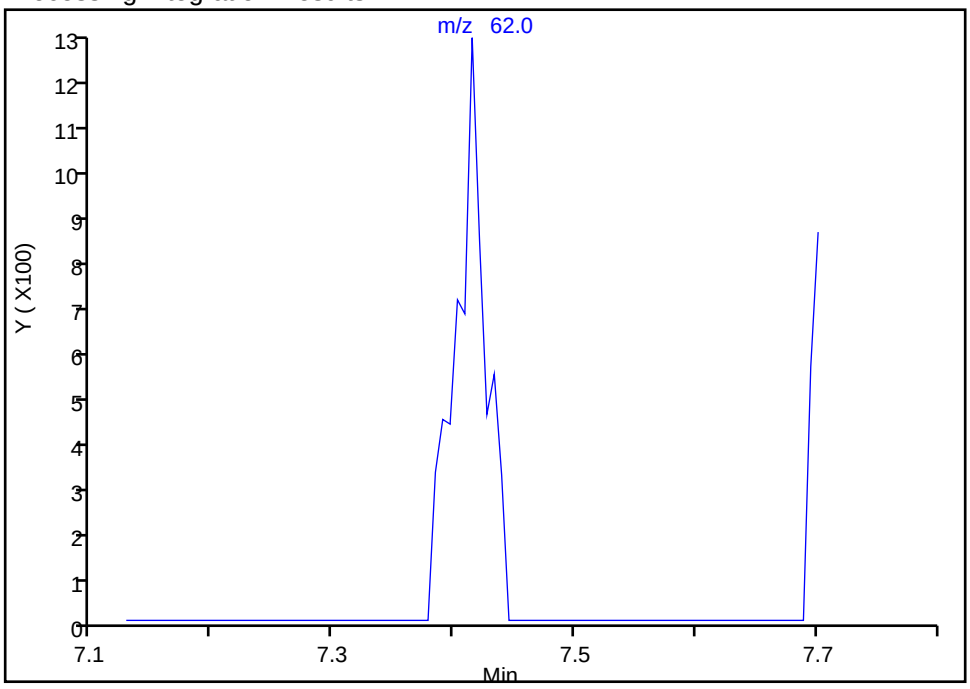
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S45.D				
Injection Date:	04-Mar-2021 02:35:30	Instrument ID:	19930		
Lims ID:	410-30627-A-10	Lab Sample ID:	410-30627-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

56 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

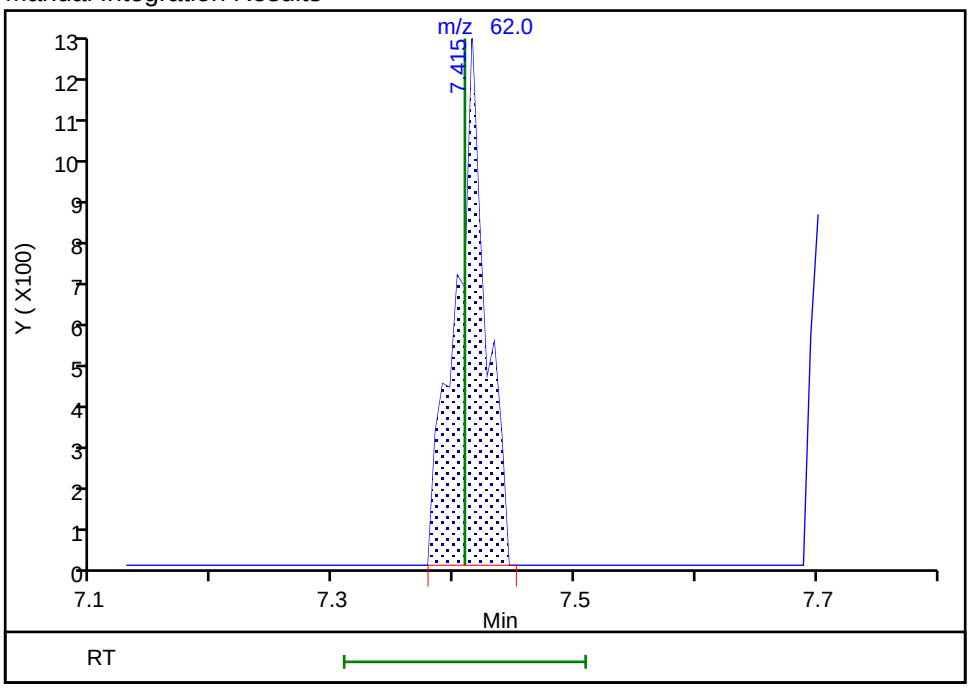
Not Detected
Expected RT: 7.41

Processing Integration Results



Manual Integration Results

RT: 7.41
Area: 2139
Amount: 0.032959
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:49:06
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

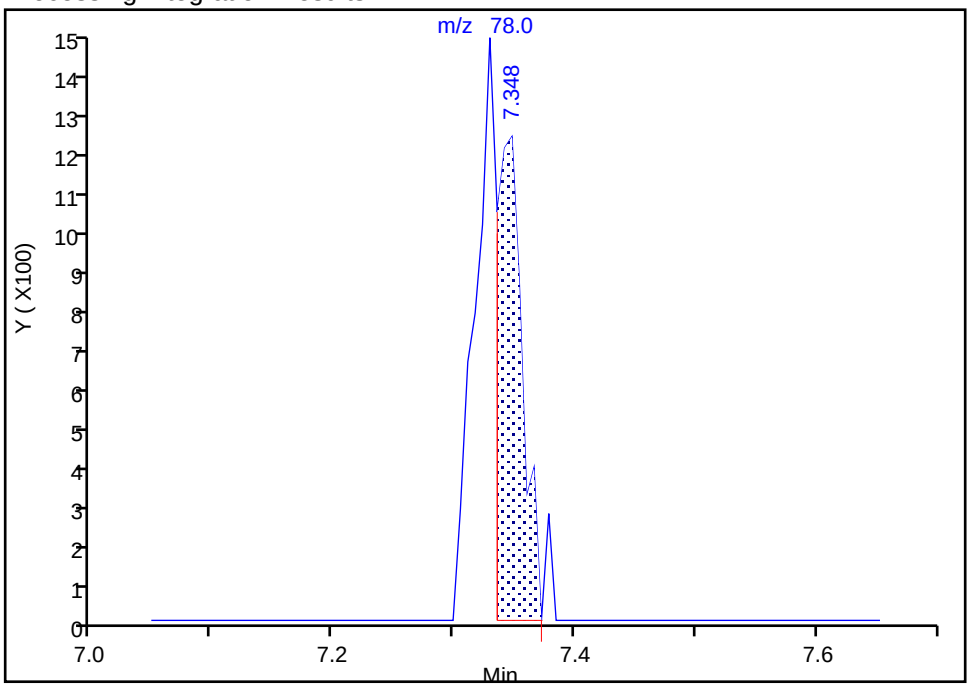
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S45.D				
Injection Date:	04-Mar-2021 02:35:30	Instrument ID:	19930		
Lims ID:	410-30627-A-10	Lab Sample ID:	410-30627-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

54 Benzene, CAS: 71-43-2

Signal: 1

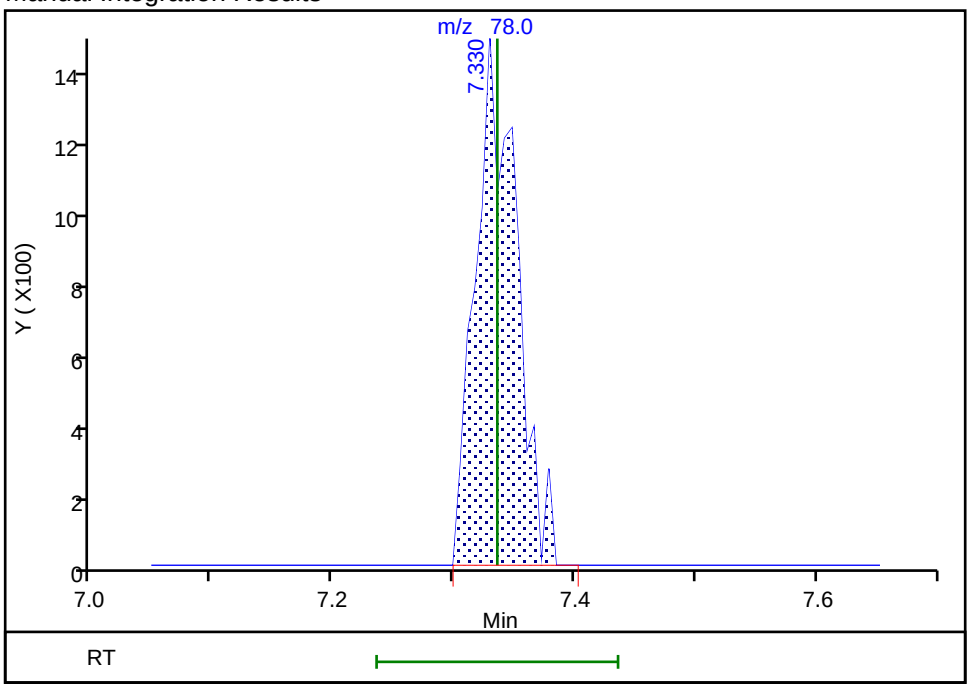
Processing Integration Results

RT: 7.35
Area: 1851
Amount: 0.006964
Amount Units: ug/l



Manual Integration Results

RT: 7.33
Area: 3499
Amount: 0.013164
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:48:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

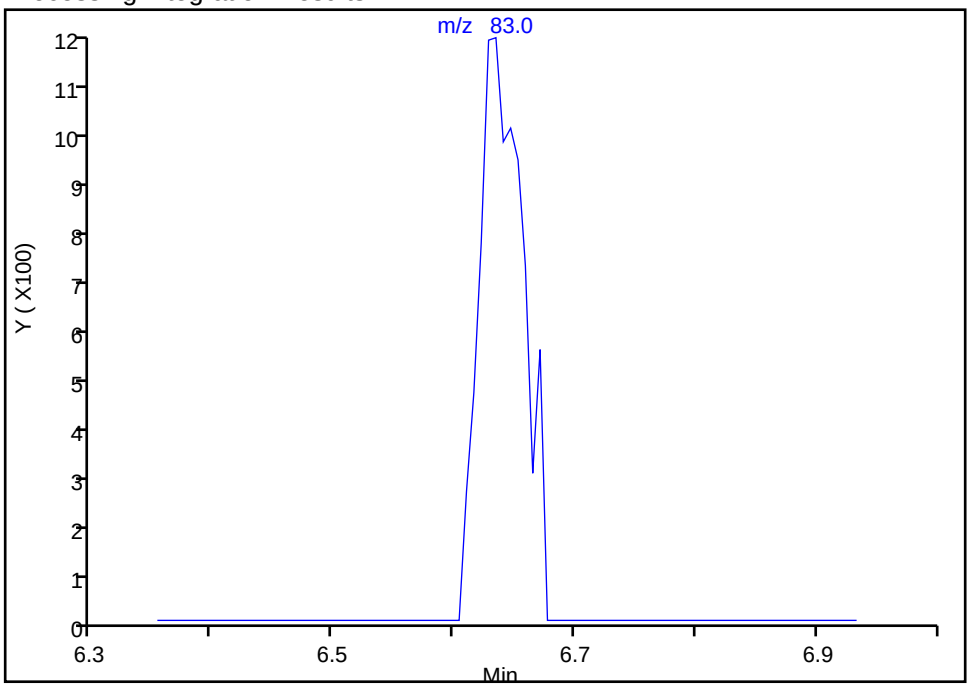
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S45.D				
Injection Date:	04-Mar-2021 02:35:30	Instrument ID:	19930		
Lims ID:	410-30627-A-10	Lab Sample ID:	410-30627-10		
Client ID:	HD-COD-SW-27-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	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

Signal: 1

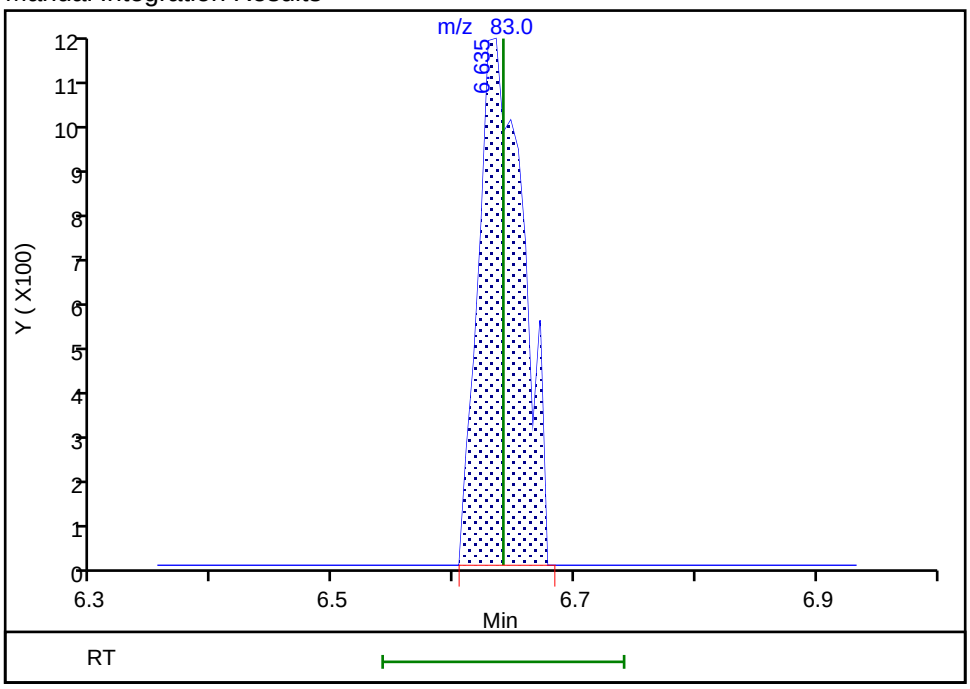
Not Detected
Expected RT: 6.64

Processing Integration Results



Manual Integration Results

RT: 6.63
Area: 3069
Amount: 0.027891
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:48:37
Audit Action: Manually Integrated Audit Reason: Missed Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-28-0/1-0 Lab Sample ID: 410-30627-11

Matrix: Water Lab File ID: IM03S46.D

Analysis Method: 8260D Date Collected: 02/25/2021 12:55

Sample wt/vol: 25(mL) Date Analyzed: 03/04/2021 02:56

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.: 99333 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	^c	5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70
67-64-1	Acetone	2.2	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	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	0.098	J	0.50	0.070
100-42-5	Styrene	ND		0.50	0.050
127-18-4	Tetrachloroethene	0.11	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	ND		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-28-0/1-0 Lab Sample ID: 410-30627-11

Matrix: Water Lab File ID: IM03S46.D

Analysis Method: 8260D Date Collected: 02/25/2021 12:55

Sample wt/vol: 25(mL) Date Analyzed: 03/04/2021 02:56

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.: 99333 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)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		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\19930\20210303-23228.b\IM03S46.D
Lims ID: 410-30627-A-11
Client ID: HD-COD-SW-28-0/1-0
Sample Type: Client
Inject. Date: 04-Mar-2021 02:56:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-024
Misc. Info.: 410-30627-A-11
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

First Level Reviewer: knouses Date: 04-Mar-2021 12:51:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.166	2.184	-0.018	1	3475	0.0402	
5 Vinyl chloride	62		2.306				ND	
7 Bromomethane	94		2.629				ND	
8 Chloroethane	64		2.709				ND	
14 1,1-Dichloroethene	96		3.574				ND	
15 Acetone	43	3.611	3.605	0.006	99	22649	2.19	
19 Carbon disulfide	76	3.885	3.885	0.000	55	7350	0.0455	
23 Methylene Chloride	84	4.245	4.251	-0.006	84	6031	0.0977	
* 24 t-Butyl alcohol-d10 (IS)	65	4.269	4.275	-0.006	0	189916	50.0	
27 Methyl tert-butyl ether	73		4.659				ND	
28 trans-1,2-Dichloroethene	96		4.672				ND	
31 1,1-Dichloroethane	63		5.330				ND	
36 2-Butanone (MEK)	43		6.122				ND	7
37 cis-1,2-Dichloroethene	96	6.147	6.159	-0.012	1	2451	0.0343	M
43 Chlorobromomethane	128		6.488				ND	
45 Chloroform	83	6.635	6.641	-0.006	90	9252	0.0845	
$ 46 Dibromofluoromethane (Surr)	113	6.854	6.854	0.000	94	529676	10.3	
47 1,1,1-Trichloroethane	97		6.866				ND	
50 Carbon tetrachloride	117		7.080				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.305	7.305	0.000	0	106064	10.2	
54 Benzene	78	7.336	7.336	0.000	58	4439	0.0168	7M
56 1,2-Dichloroethane	62	7.409	7.409	0.000	0	1834	0.0284	M
* 58 Fluorobenzene (IS)	96	7.738	7.738	0.000	99	2088659	10.0	
61 Trichloroethene	95	8.232	8.214	0.018	87	3720	0.0537	M
63 1,2-Dichloropropane	63		8.549				ND	
68 Dichlorobromomethane	83	8.890	8.890	0.000	1	1135	0.0146	7M
73 cis-1,3-Dichloropropene	75		9.433				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.597				ND	7
$ 75 Toluene-d8 (Surr)	98	9.744	9.738	0.006	93	2084640	9.79	
76 Toluene	92	9.817	9.817	0.000	98	10228	0.0575	
78 trans-1,3-Dichloropropene	75		10.067				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
80 1,1,2-Trichloroethane	97		10.274				ND	
81 Tetrachloroethene	166	10.366	10.366	0.000	95	9355	0.1087	
83 2-Hexanone	43		10.481				ND	
85 Chlorodibromomethane	129		10.652				ND	
86 Ethylene Dibromide	107		10.762				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	0.000	85	1630216	10.0	
90 Chlorobenzene	112		11.213				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.298				ND	
92 Ethylbenzene	91		11.298				ND	7
93 m-Xylene & p-Xylene	106	11.420	11.414	0.006	98	5603	0.0413	
94 o-Xylene	106		11.743				ND	7
95 Styrene	104	11.774	11.756	0.018	47	876	0.004155	M
96 Bromoform	173		11.914				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.182	12.182	0.000	94	760166	9.64	
101 1,1,2,2-Tetrachloroethane	83		12.286				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	94	931344	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_31_826ISS_00004 Amount Added: 5.00 Units: uL Run Reagent

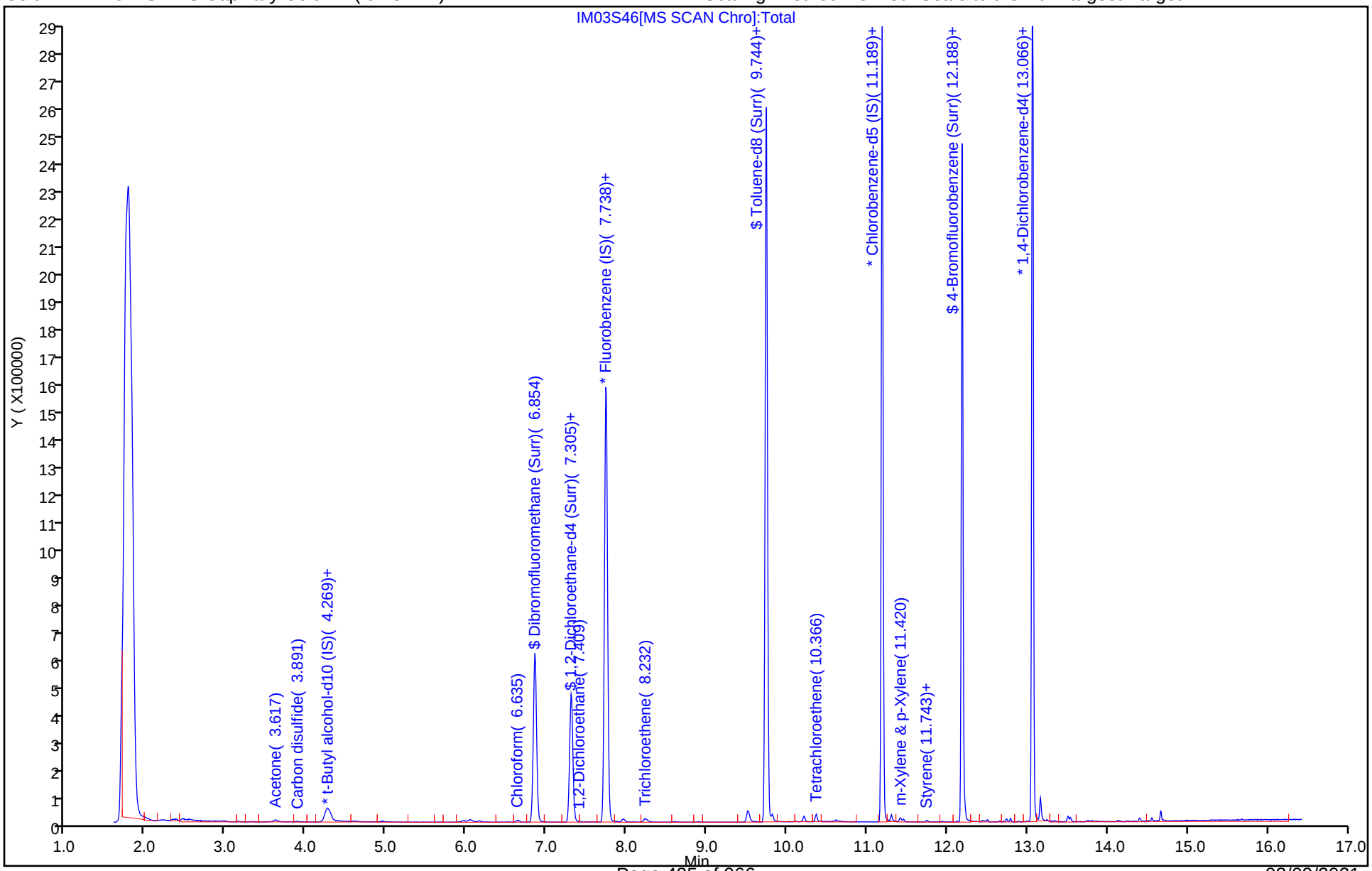
Report Date: 04-Mar-2021 13:07:29 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S46.D

Injection Date:	04-Mar-2021 02:56:30	Instrument ID:	19930	Operator ID:	MEC29284
Lims ID:	410-30627-A-11	Lab Sample ID:	410-30627-11	Worklist Smp#:	24
Client ID:	HD-COD-SW-28-0/1-0				
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: 2



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S46.D				
Lims ID:	410-30627-A-11				
Client ID:	HD-COD-SW-28-0/1-0				
Sample Type:	Client				
Inject. Date:	04-Mar-2021 02:56:30	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0023228-024				
Misc. Info.:	410-30627-A-11				
Operator ID:	MEC29284	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	04-Mar-2021 13:06:32	Calib Date:	23-Nov-2020 18:05:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1631				

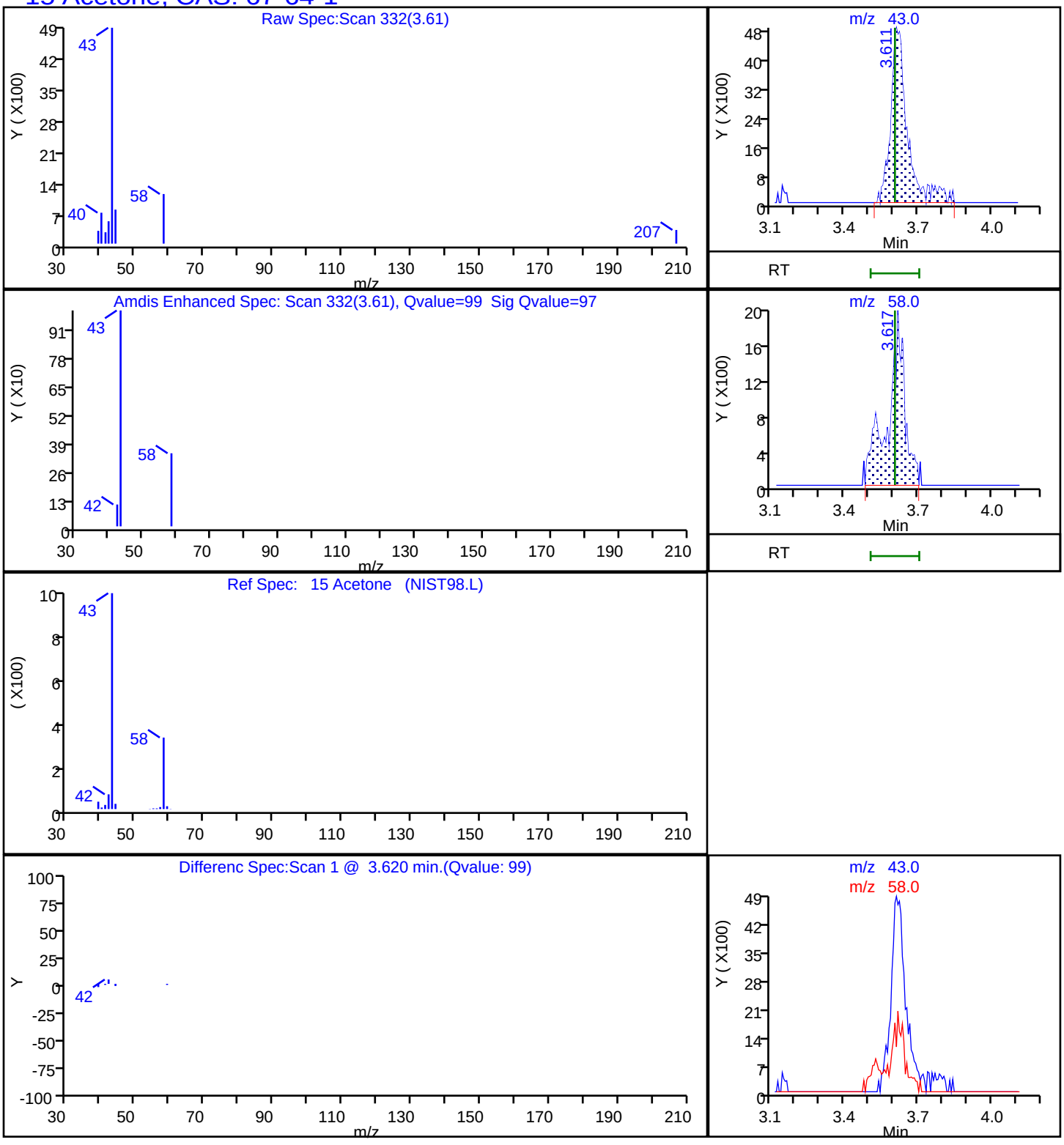
First Level Reviewer: knouses Date: 04-Mar-2021 12:51:33

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.3	102.71
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.01
$ 75 Toluene-d8 (Surr)	10.0	9.79	97.92
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.64	96.42

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S46.D				
Injection Date:	04-Mar-2021 02:56:30	Instrument ID:	19930		
Lims ID:	410-30627-A-11	Lab Sample ID:	410-30627-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	MEC29284	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		

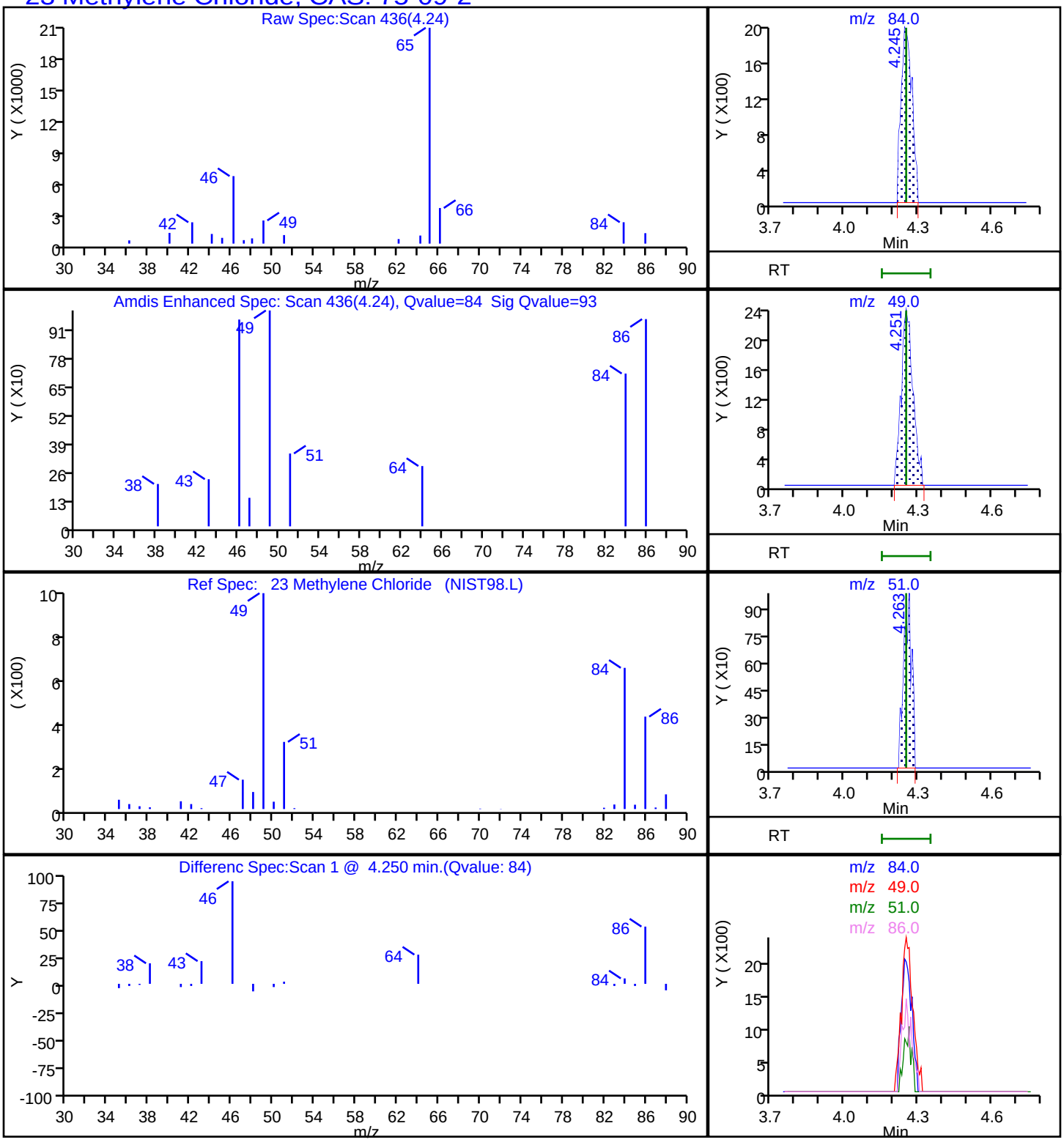
15 Acetone, CAS: 67-64-1



Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S46.D				
Injection Date:	04-Mar-2021 02:56:30	Instrument ID:	19930		
Lims ID:	410-30627-A-11	Lab Sample ID:	410-30627-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	MEC29284	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		

23 Methylene Chloride, CAS: 75-09-2



Report Date: 04-Mar-2021 13:07:30 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S46.D

Injection Date: 04-Mar-2021 02:56:30 Instrument ID: 19930

Lims ID: 410-30627-A-11 Lab Sample ID: 410-30627-11

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

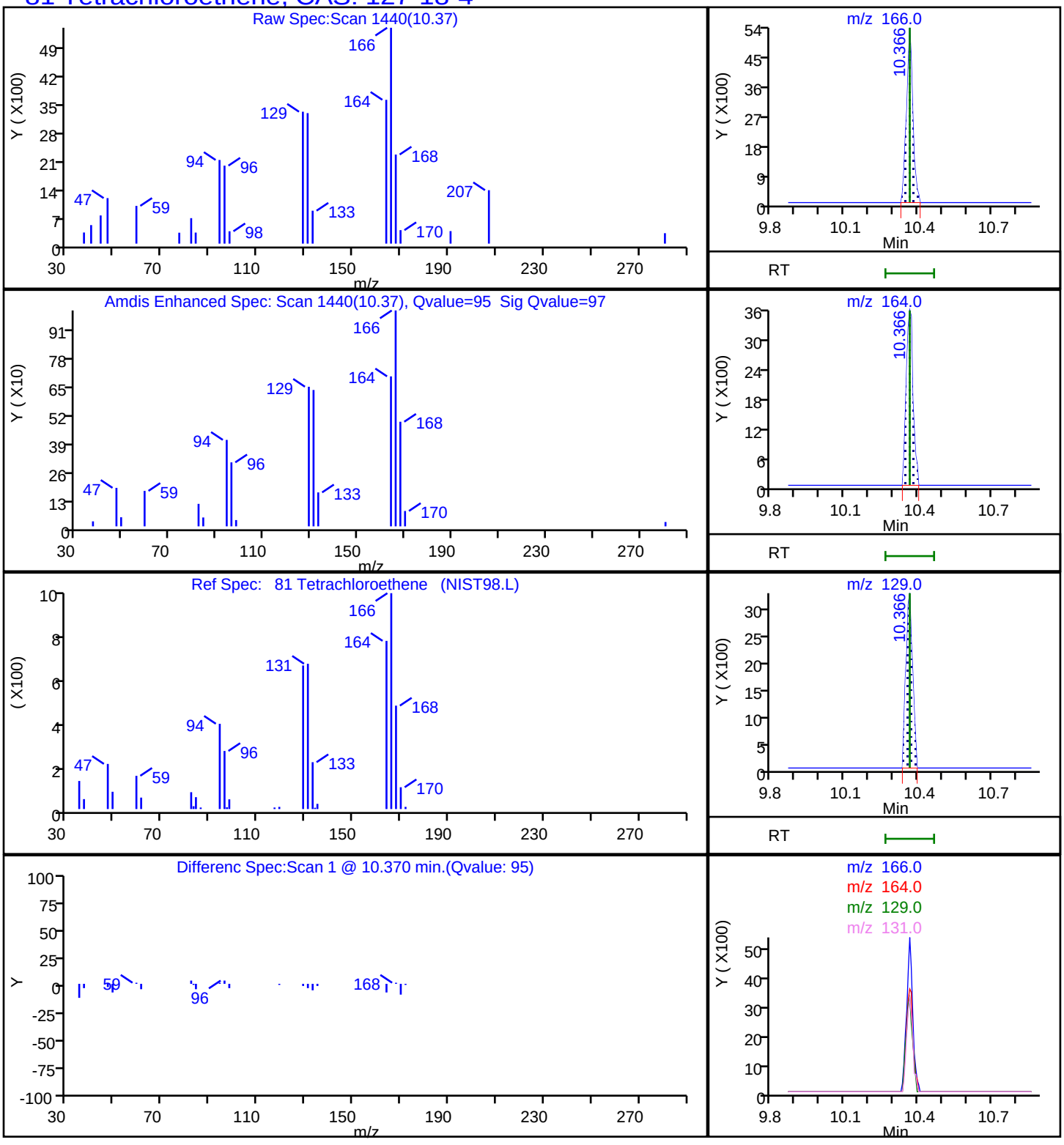
Operator ID: MEC29284 ALS Bottle#: 23 Worklist Smp#: 24

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

81 Tetrachloroethene, CAS: 127-18-4



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

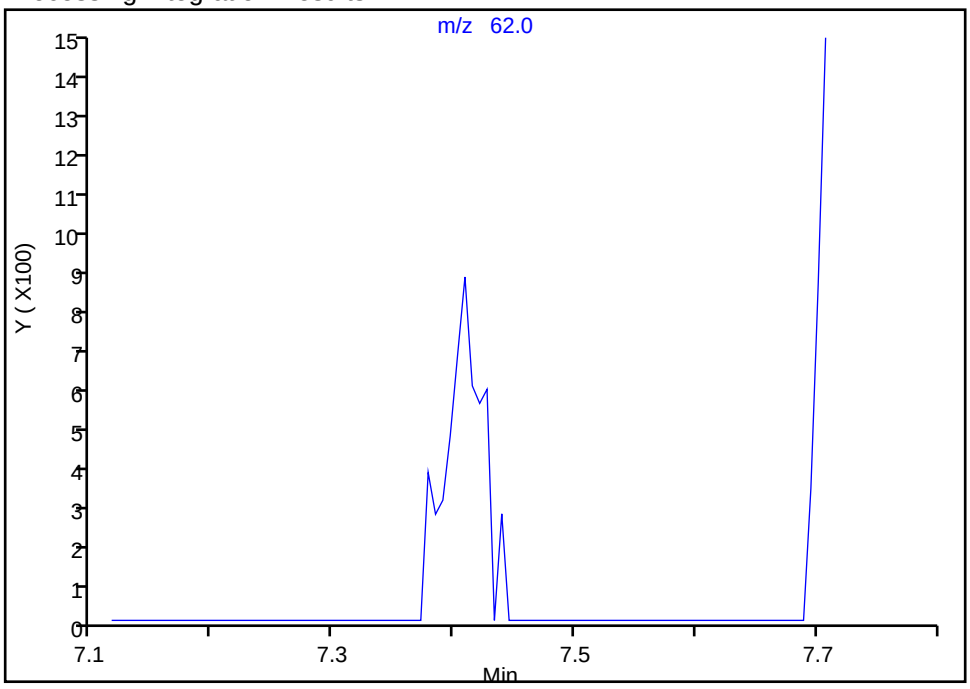
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S46.D				
Injection Date:	04-Mar-2021 02:56:30	Instrument ID:	19930		
Lims ID:	410-30627-A-11	Lab Sample ID:	410-30627-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

56 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

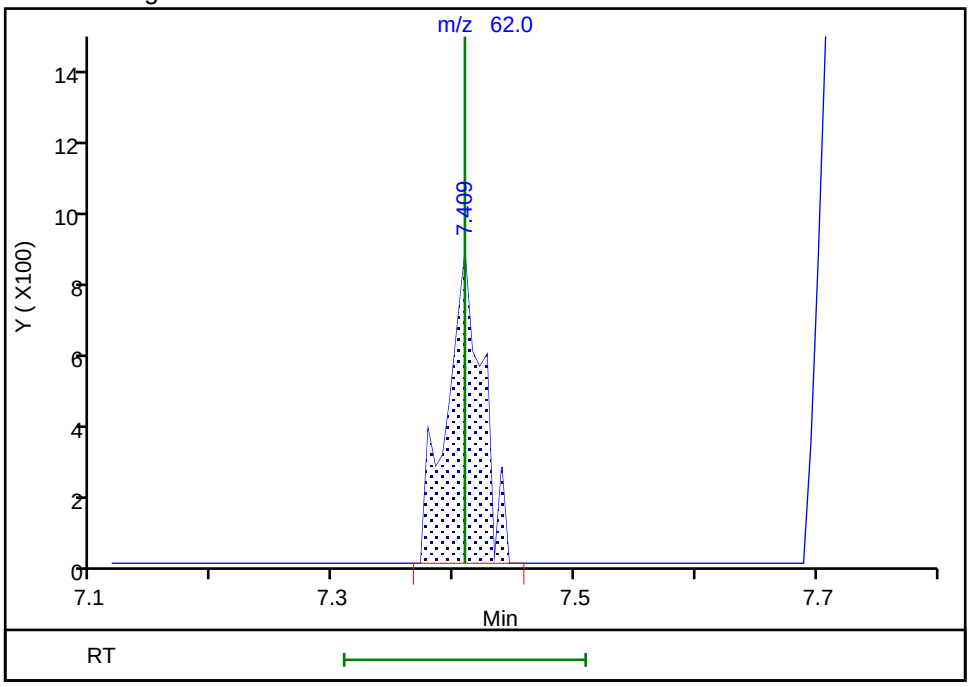
Not Detected
Expected RT: 7.41

Processing Integration Results



Manual Integration Results

RT: 7.41
Area: 1834
Amount: 0.028384
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:50:13
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

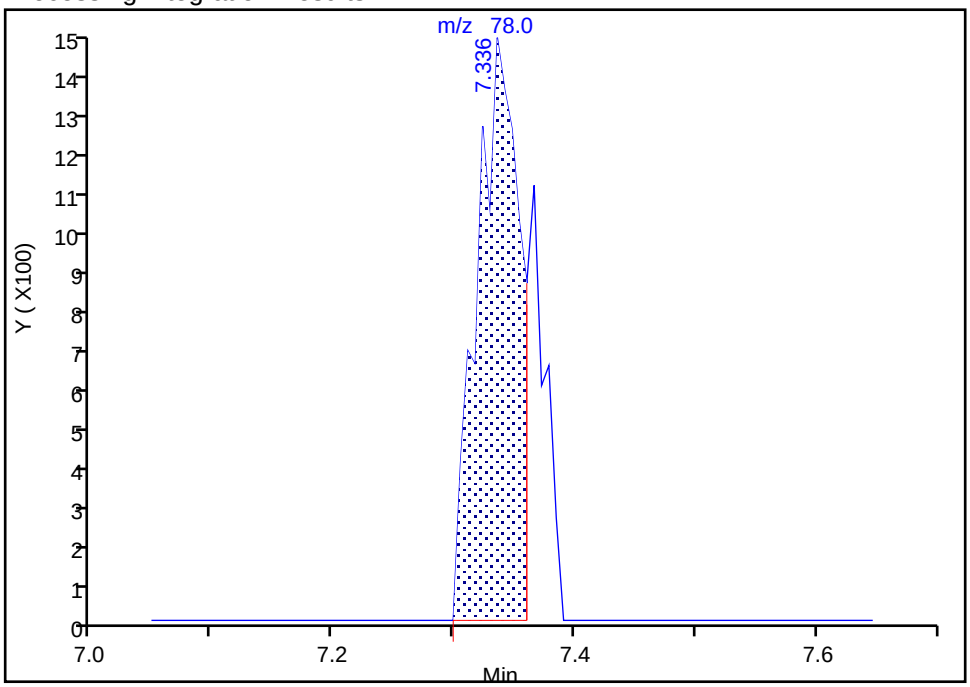
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S46.D				
Injection Date:	04-Mar-2021 02:56:30	Instrument ID:	19930		
Lims ID:	410-30627-A-11	Lab Sample ID:	410-30627-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

54 Benzene, CAS: 71-43-2

Signal: 1

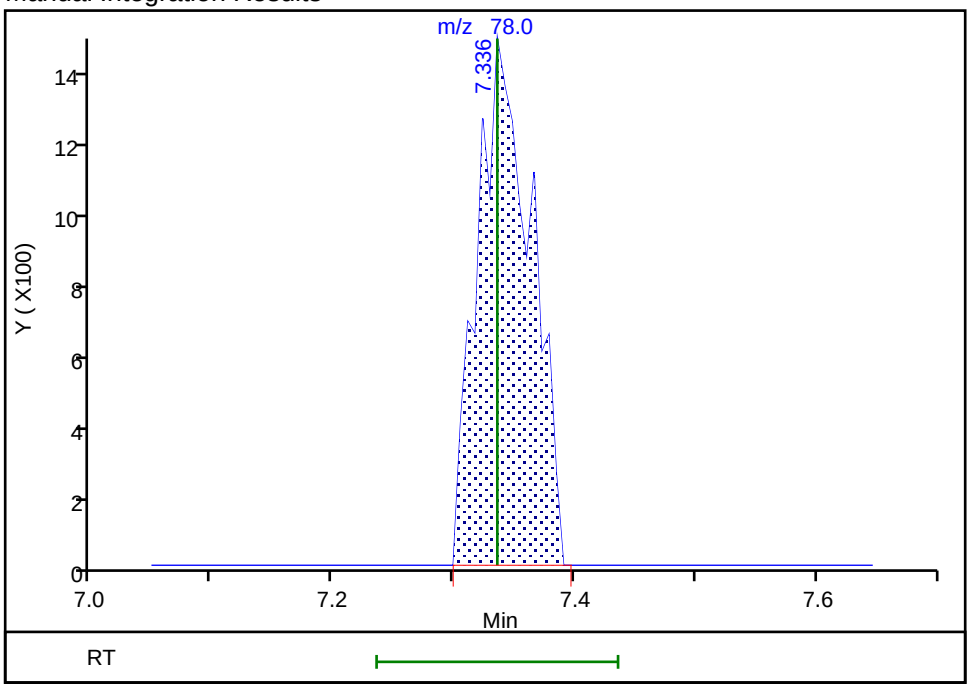
Processing Integration Results

RT: 7.34
Area: 3517
Amount: 0.013290
Amount Units: ug/l



Manual Integration Results

RT: 7.34
Area: 4439
Amount: 0.016774
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:50:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

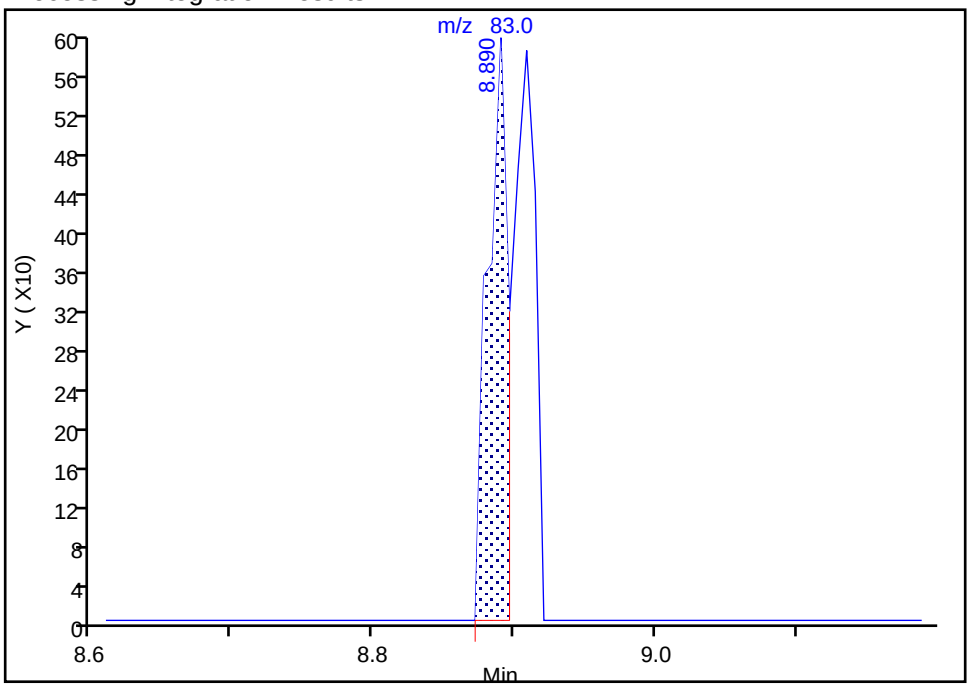
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S46.D				
Injection Date:	04-Mar-2021 02:56:30	Instrument ID:	19930		
Lims ID:	410-30627-A-11	Lab Sample ID:	410-30627-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 Dichlorobromomethane, CAS: 75-27-4

Signal: 1

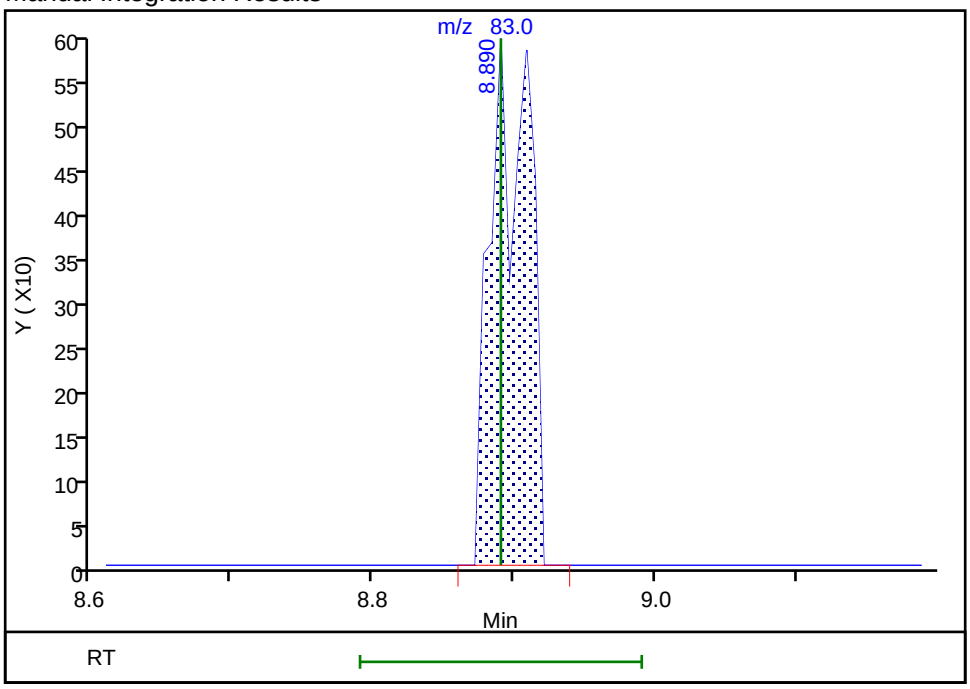
Processing Integration Results

RT: 8.89
Area: 594
Amount: 0.007620
Amount Units: ug/l



Manual Integration Results

RT: 8.89
Area: 1135
Amount: 0.014560
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:50:35

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

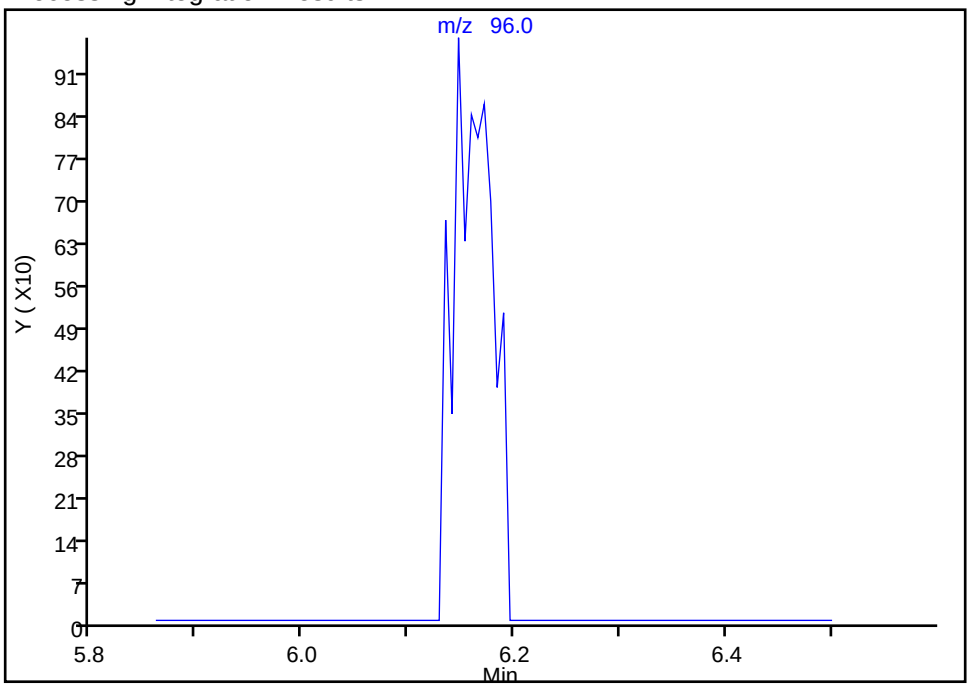
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S46.D				
Injection Date:	04-Mar-2021 02:56:30	Instrument ID:	19930		
Lims ID:	410-30627-A-11	Lab Sample ID:	410-30627-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	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

Signal: 1

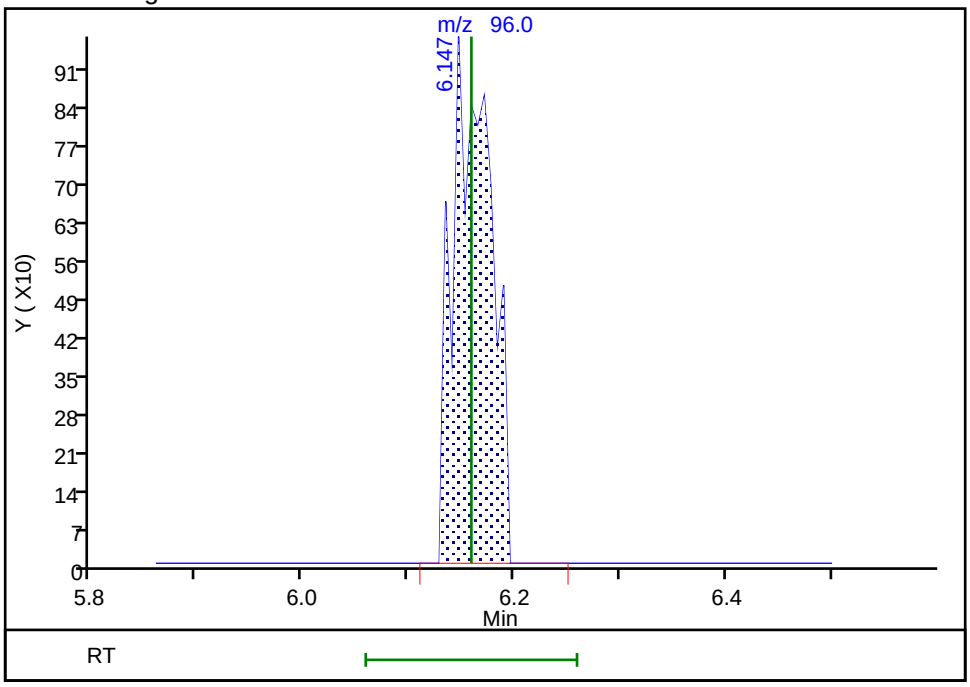
Not Detected
Expected RT: 6.16

Processing Integration Results



Manual Integration Results

RT: 6.15
Area: 2451
Amount: 0.034309
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:49:46
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

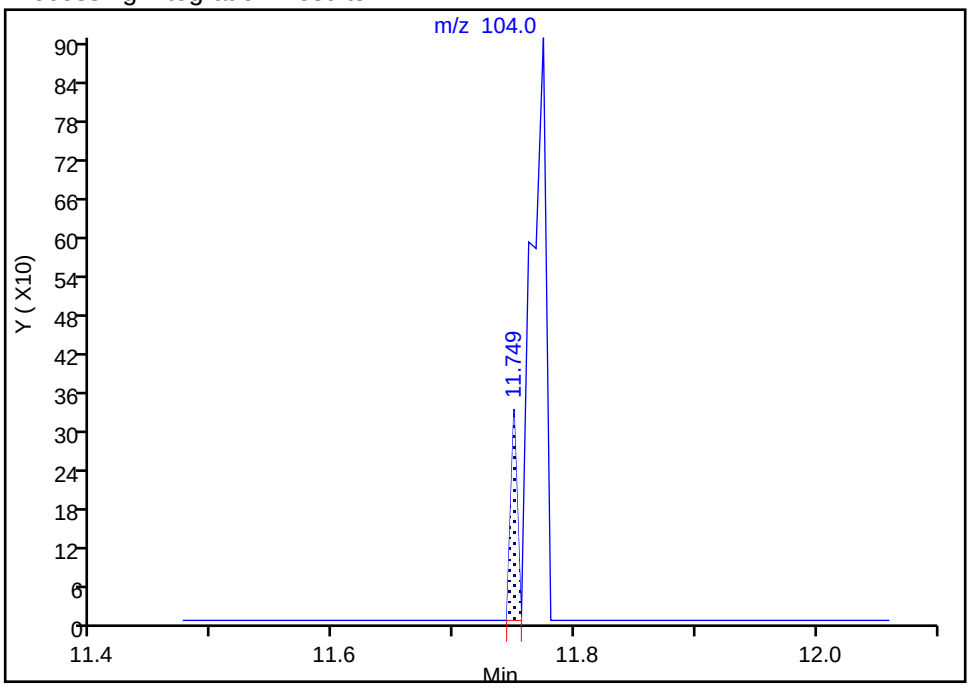
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S46.D				
Injection Date:	04-Mar-2021 02:56:30	Instrument ID:	19930		
Lims ID:	410-30627-A-11	Lab Sample ID:	410-30627-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

95 Styrene, CAS: 100-42-5

Signal: 1

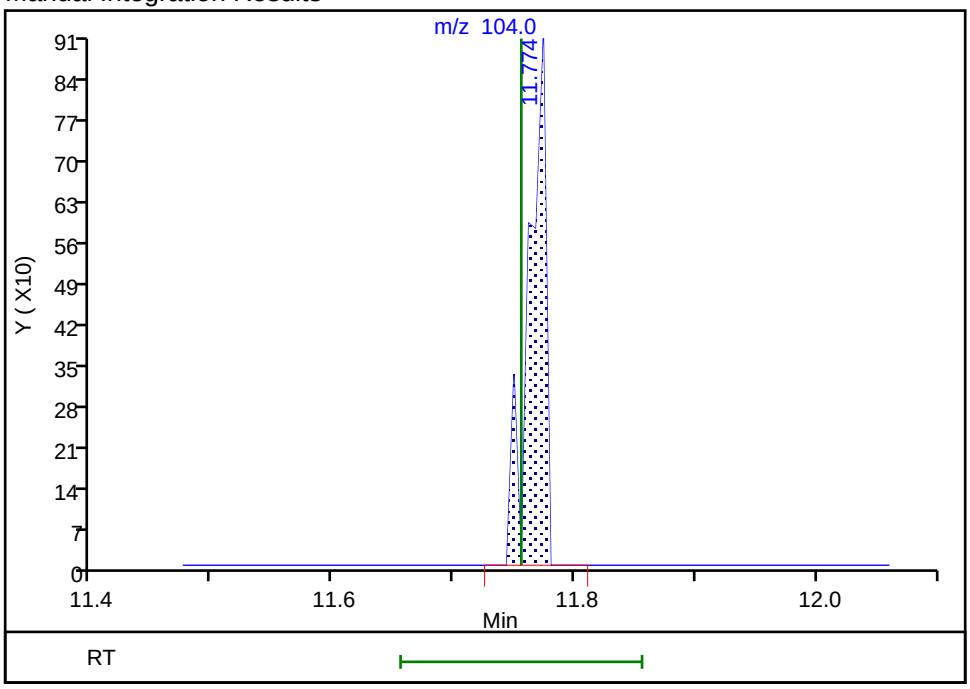
Processing Integration Results

RT: 11.75
Area: 120
Amount: 0.000569
Amount Units: ug/l



Manual Integration Results

RT: 11.77
Area: 876
Amount: 0.004155
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:51:26

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

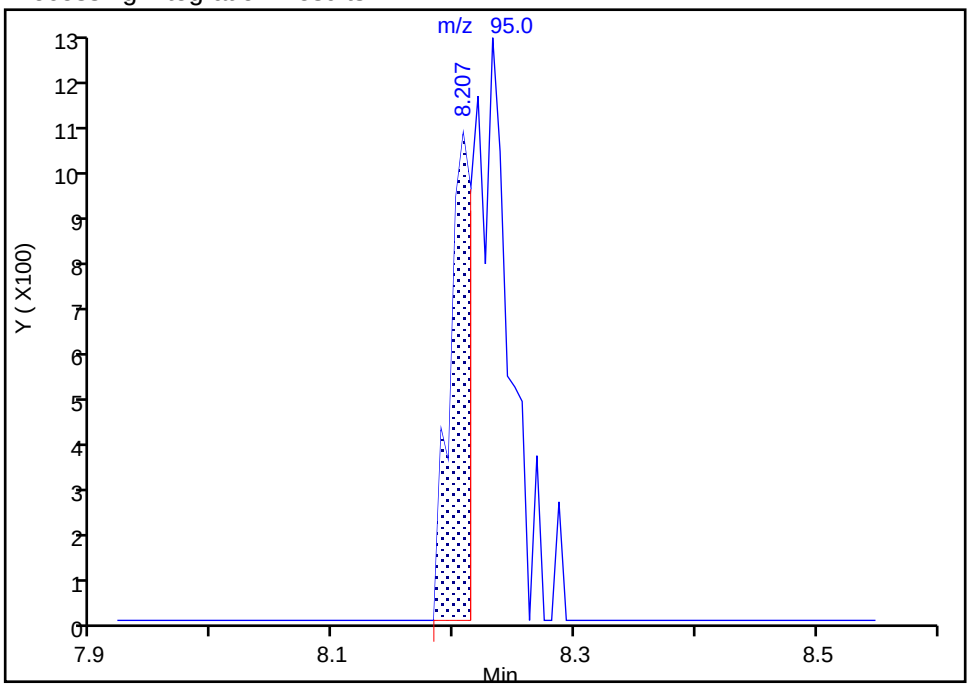
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S46.D				
Injection Date:	04-Mar-2021 02:56:30	Instrument ID:	19930		
Lims ID:	410-30627-A-11	Lab Sample ID:	410-30627-11		
Client ID:	HD-COD-SW-28-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

61 Trichloroethene, CAS: 79-01-6

Signal: 1

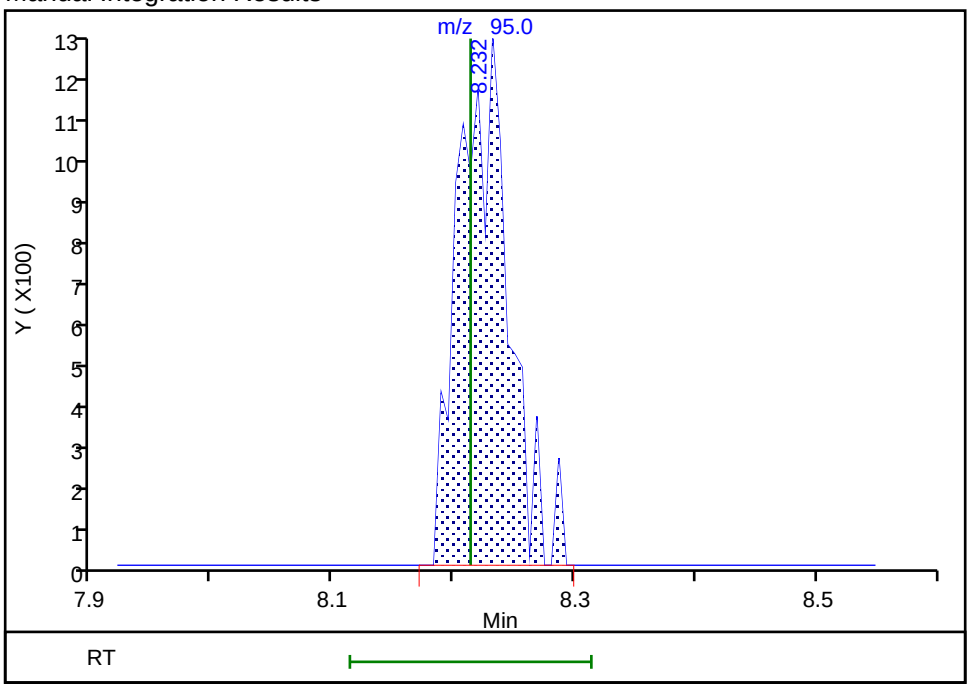
Processing Integration Results

RT: 8.21
Area: 1365
Amount: 0.019705
Amount Units: ug/l



Manual Integration Results

RT: 8.23
Area: 3720
Amount: 0.053703
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:50:24
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.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-29-0/1-0 Lab Sample ID: 410-30627-12

Matrix: Water Lab File ID: IM03S47.D

Analysis Method: 8260D Date Collected: 02/25/2021 09:25

Sample wt/vol: 25(mL) Date Analyzed: 03/04/2021 03:17

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.: 99333 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	^c	5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.70
67-64-1	Acetone	1.7	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	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.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-29-0/1-0 Lab Sample ID: 410-30627-12

Matrix: Water Lab File ID: IM03S47.D

Analysis Method: 8260D Date Collected: 02/25/2021 09:25

Sample wt/vol: 25(mL) Date Analyzed: 03/04/2021 03:17

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.: 99333 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)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		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\19930\20210303-23228.b\IM03S47.D
Lims ID: 410-30627-A-12
Client ID: HD-COD-SW-29-0/1-0
Sample Type: Client
Inject. Date: 04-Mar-2021 03:17:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-025
Misc. Info.: 410-30627-A-12
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

First Level Reviewer: knouses Date: 04-Mar-2021 12:53:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.172	2.184	-0.012	91	3281	0.0393	
5 Vinyl chloride	62		2.306				ND	
7 Bromomethane	94		2.629				ND	
8 Chloroethane	64		2.709				ND	
14 1,1-Dichloroethene	96		3.574				ND	
15 Acetone	43	3.611	3.605	0.006	99	16151	1.72	
19 Carbon disulfide	76	3.873	3.885	-0.012	94	7020	0.0451	
23 Methylene Chloride	84		4.251				ND	7
* 24 t-Butyl alcohol-d10 (IS)	65	4.269	4.275	-0.006	0	172533	50.0	
27 Methyl tert-butyl ether	73		4.659				ND	
28 trans-1,2-Dichloroethene	96		4.672				ND	
31 1,1-Dichloroethane	63		5.330				ND	
36 2-Butanone (MEK)	43		6.122				ND	7
37 cis-1,2-Dichloroethene	96	6.165	6.159	0.006	1	2931	0.0425	M
43 Chlorobromomethane	128		6.488				ND	
45 Chloroform	83	6.635	6.641	-0.006	28	2247	0.0213	7M
$ 46 Dibromofluoromethane (Surr)	113	6.848	6.854	-0.006	94	516640	10.4	
47 1,1,1-Trichloroethane	97		6.866				ND	
50 Carbon tetrachloride	117		7.080				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.305	7.305	0.000	0	102291	10.2	
54 Benzene	78		7.336				ND	7
56 1,2-Dichloroethane	62	7.409	7.409	0.000	1	1692	0.0271	M
* 58 Fluorobenzene (IS)	96	7.738	7.738	0.000	99	2014856	10.0	
61 Trichloroethene	95	8.220	8.214	0.006	88	2593	0.0388	
63 1,2-Dichloropropane	63		8.549				ND	
68 Dichlorobromomethane	83		8.890				ND	
73 cis-1,3-Dichloropropene	75		9.433				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.597				ND	
$ 75 Toluene-d8 (Surr)	98	9.738	9.738	0.000	93	2010634	9.73	
76 Toluene	92	9.823	9.817	0.006	94	4555	0.0264	
78 trans-1,3-Dichloropropene	75		10.067				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
80 1,1,2-Trichloroethane	97		10.274				ND	
81 Tetrachloroethene	166	10.353	10.366	-0.013	91	3781	0.0453	M
83 2-Hexanone	43		10.481				ND	7
85 Chlorodibromomethane	129		10.652				ND	
86 Ethylene Dibromide	107		10.762				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	0.000	85	1581773	10.0	
90 Chlorobenzene	112		11.213				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.298				ND	
92 Ethylbenzene	91		11.298				ND	
93 m-Xylene & p-Xylene	106		11.414				ND	7
94 o-Xylene	106		11.743				ND	
95 Styrene	104		11.756				ND	
96 Bromoform	173		11.914				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.188	12.182	0.006	95	742783	9.71	
101 1,1,2,2-Tetrachloroethane	83		12.286				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	94	897657	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

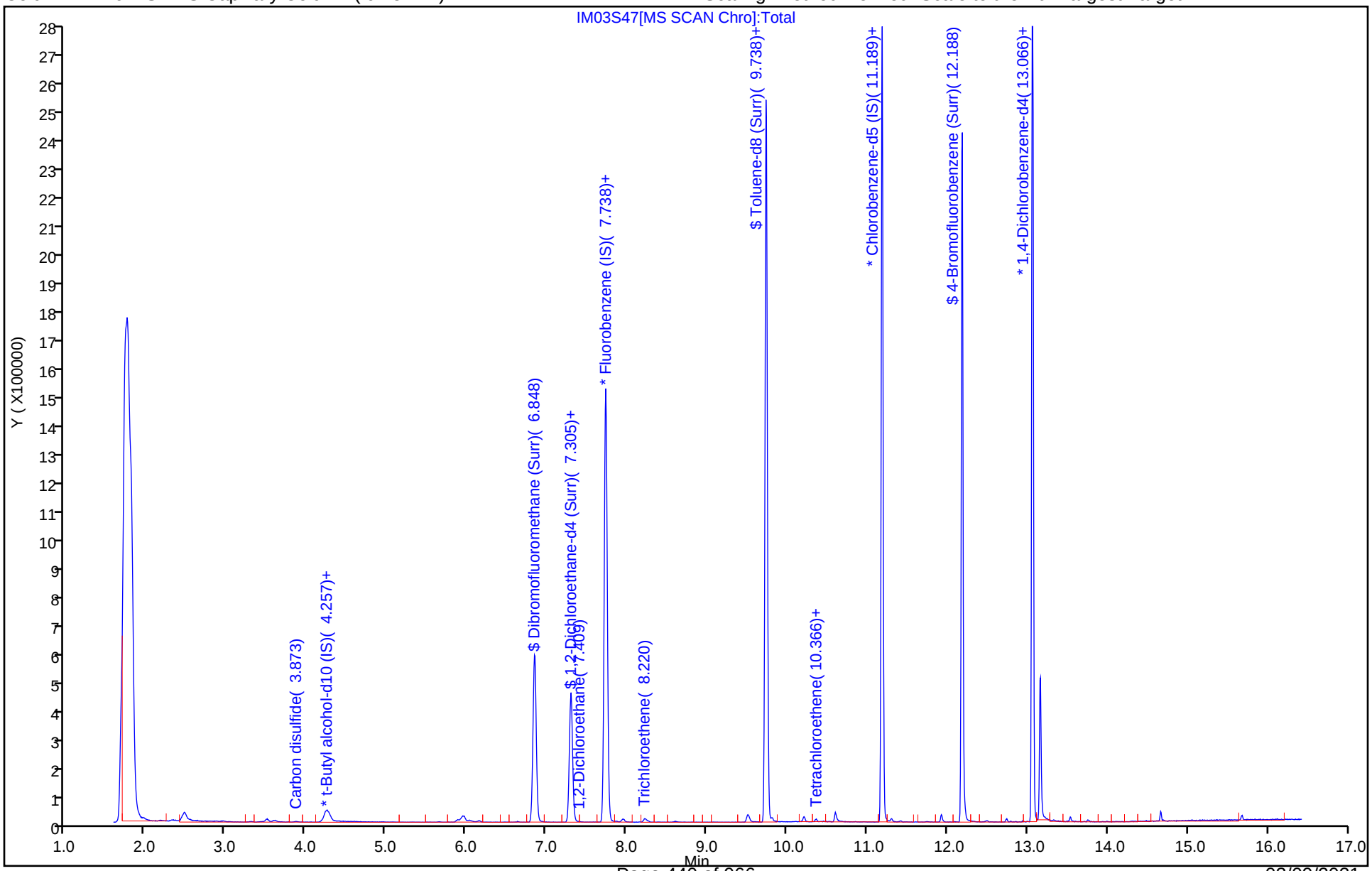
MSV_31_826ISS_00004 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 04-Mar-2021 13:07:37 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S47.D				
Injection Date:	04-Mar-2021 03:17:30	Instrument ID:	19930	Operator ID:	MEC29284
Lims ID:	410-30627-A-12	Lab Sample ID:	410-30627-12	Worklist Smp#:	25
Client ID:	HD-COD-SW-29-0/1-0				
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: 2



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S47.D
Lims ID: 410-30627-A-12
Client ID: HD-COD-SW-29-0/1-0
Sample Type: Client
Inject. Date: 04-Mar-2021 03:17:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-025
Misc. Info.: 410-30627-A-12
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

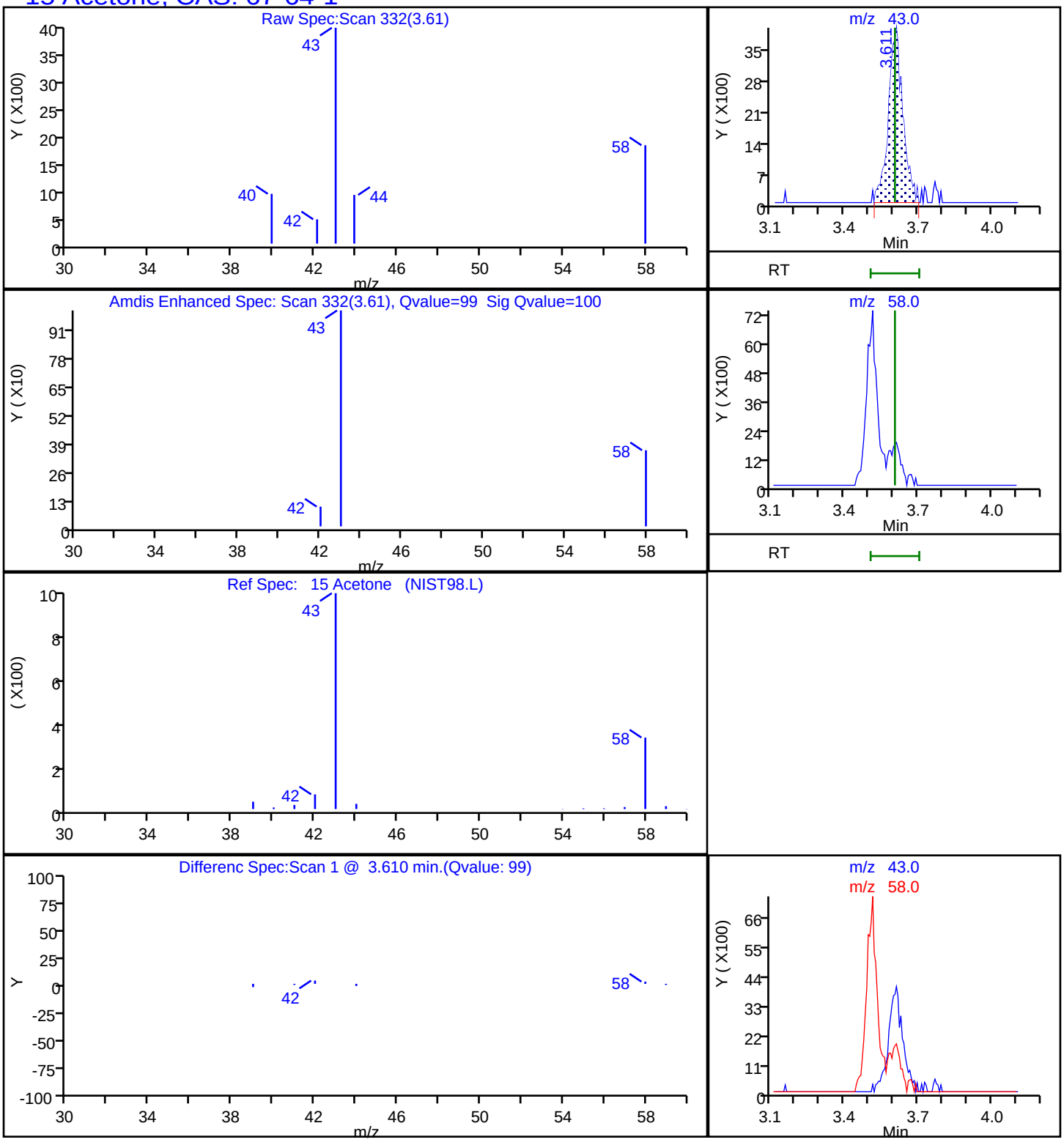
First Level Reviewer: knouses Date: 04-Mar-2021 12:53:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.4	103.85
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	101.98
$ 75 Toluene-d8 (Surr)	10.0	9.73	97.33
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.71	97.10

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S47.D				
Injection Date:	04-Mar-2021 03:17:30	Instrument ID:	19930		
Lims ID:	410-30627-A-12	Lab Sample ID:	410-30627-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	MEC29284	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		

15 Acetone, CAS: 67-64-1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

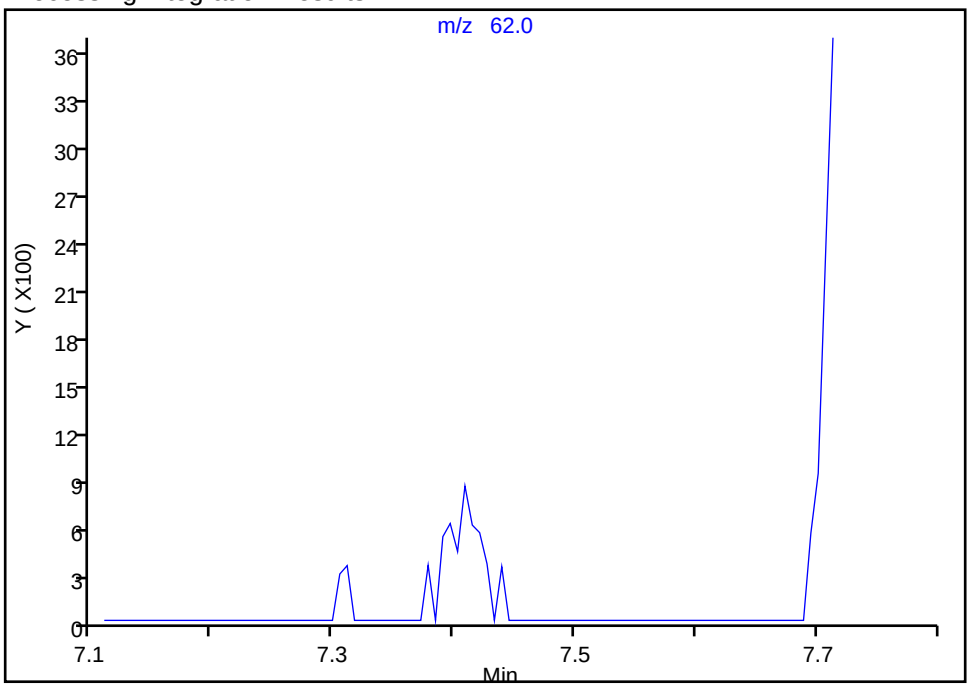
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S47.D				
Injection Date:	04-Mar-2021 03:17:30	Instrument ID:	19930		
Lims ID:	410-30627-A-12	Lab Sample ID:	410-30627-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

56 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

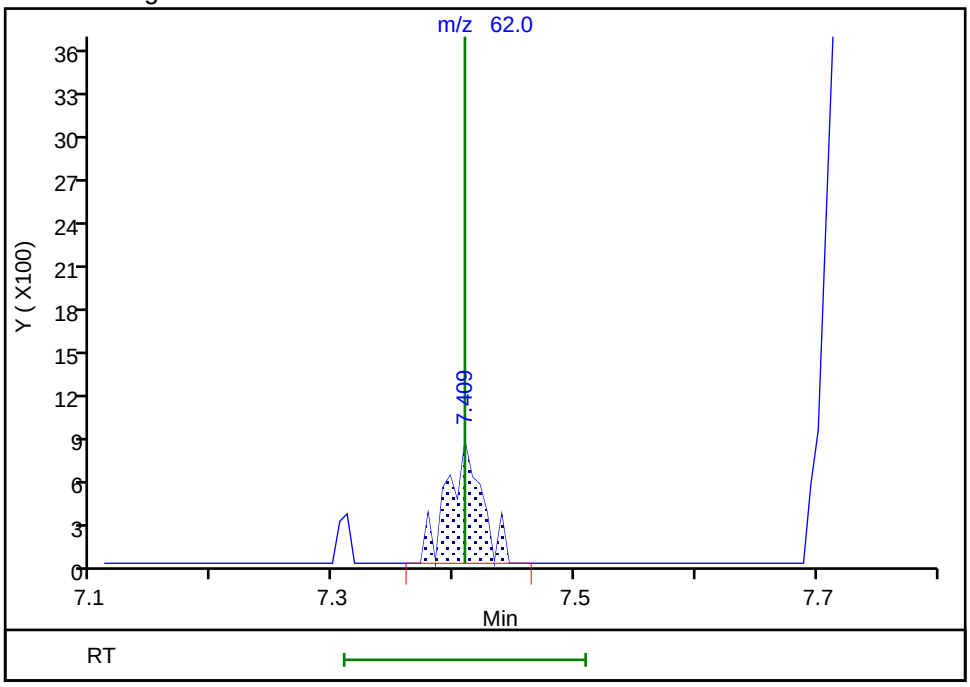
Not Detected
Expected RT: 7.41

Processing Integration Results



Manual Integration Results

RT: 7.41
Area: 1692
Amount: 0.027145
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:52:29
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

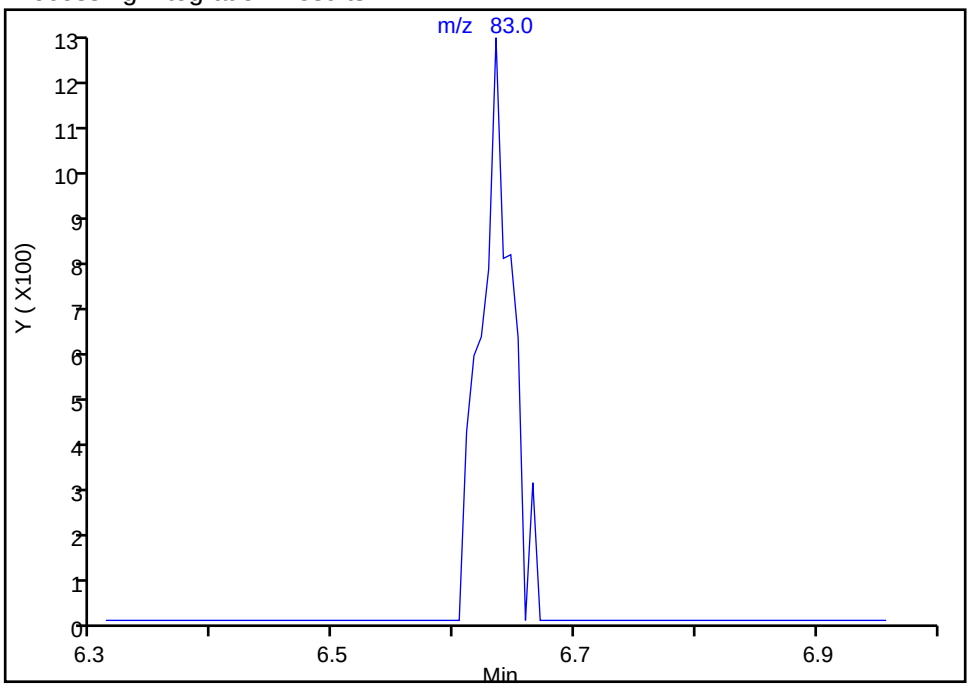
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S47.D				
Injection Date:	04-Mar-2021 03:17:30	Instrument ID:	19930		
Lims ID:	410-30627-A-12	Lab Sample ID:	410-30627-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

45 Chloroform, CAS: 67-66-3

Signal: 1

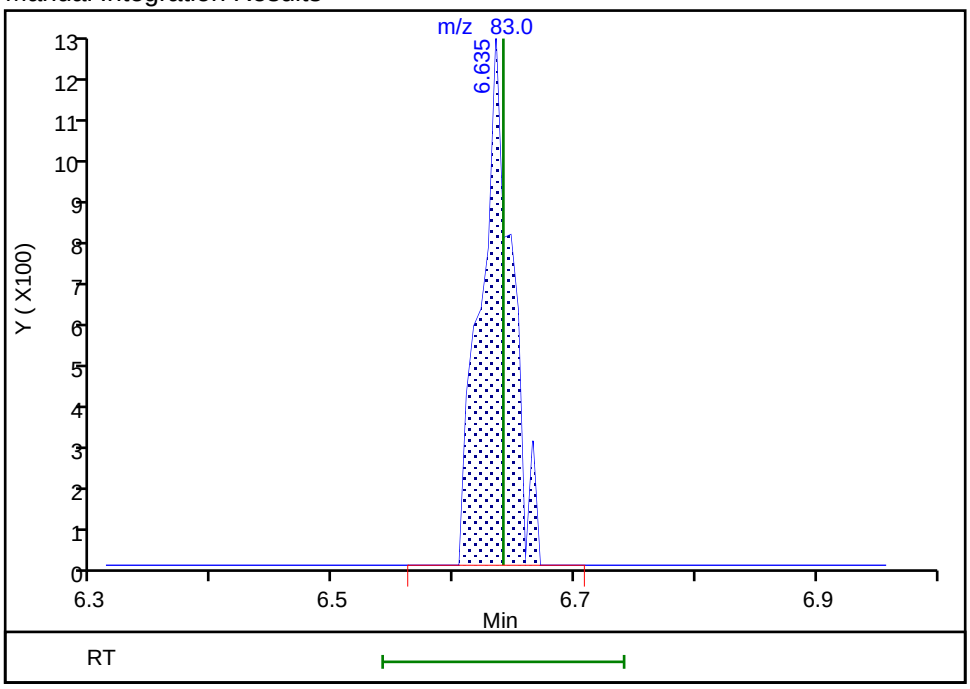
Not Detected
Expected RT: 6.64

Processing Integration Results



Manual Integration Results

RT: 6.63
Area: 2247
Amount: 0.021262
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:52:17
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

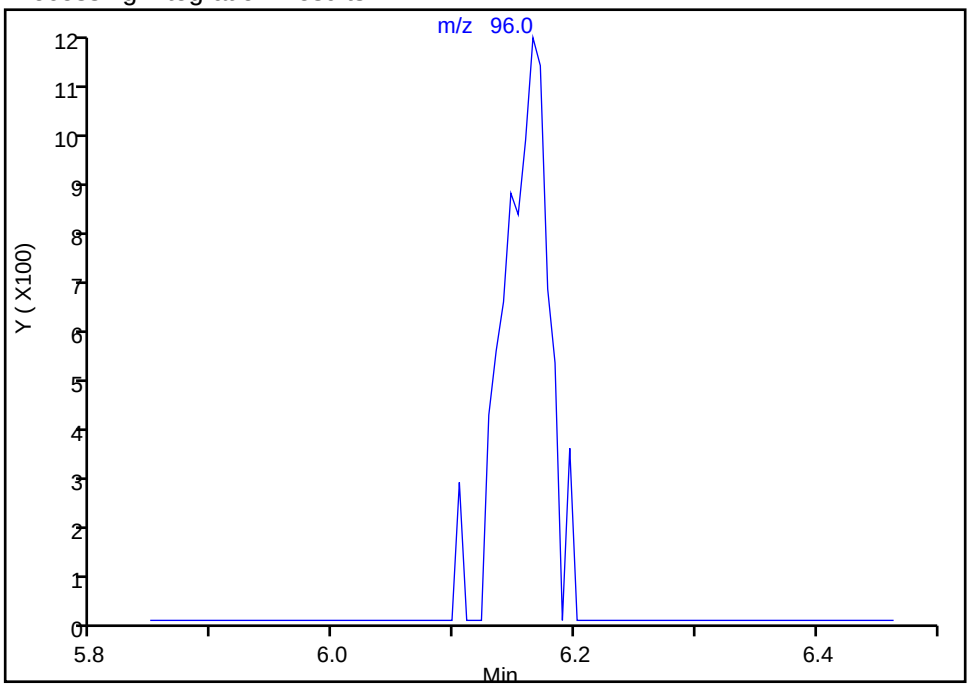
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S47.D				
Injection Date:	04-Mar-2021 03:17:30	Instrument ID:	19930		
Lims ID:	410-30627-A-12	Lab Sample ID:	410-30627-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	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

Signal: 1

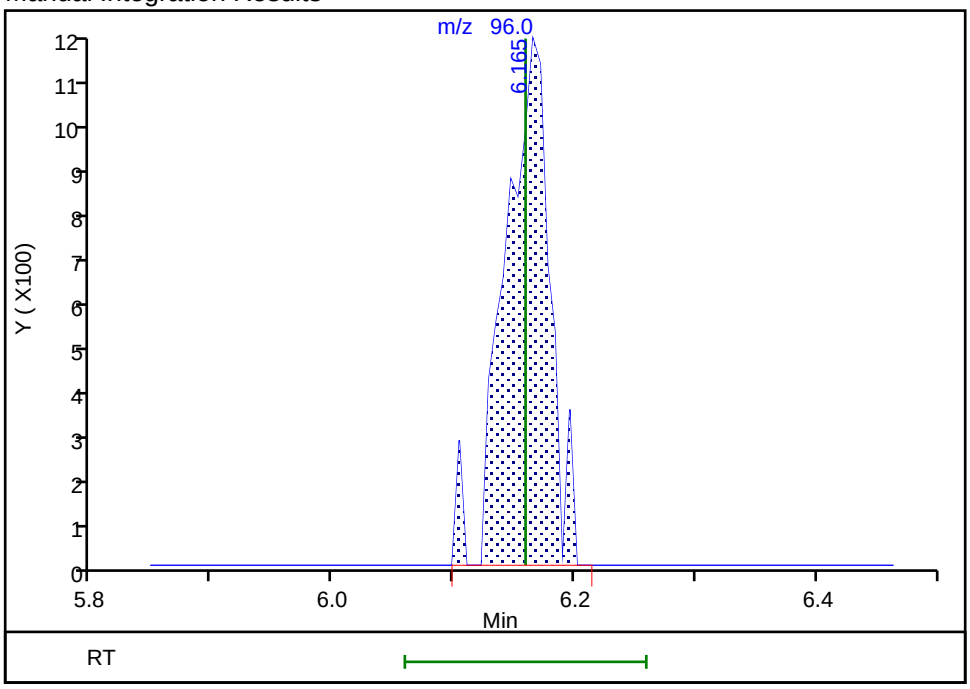
Not Detected
Expected RT: 6.16

Processing Integration Results



Manual Integration Results

RT: 6.17
Area: 2931
Amount: 0.042531
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:52:05
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

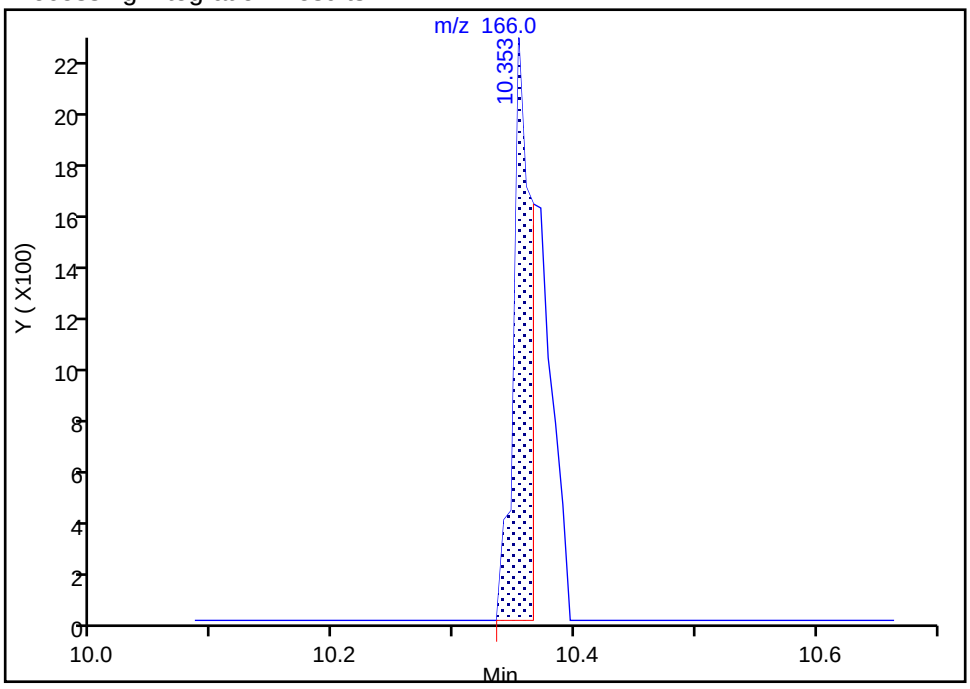
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S47.D				
Injection Date:	04-Mar-2021 03:17:30	Instrument ID:	19930		
Lims ID:	410-30627-A-12	Lab Sample ID:	410-30627-12		
Client ID:	HD-COD-SW-29-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	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

Signal: 1

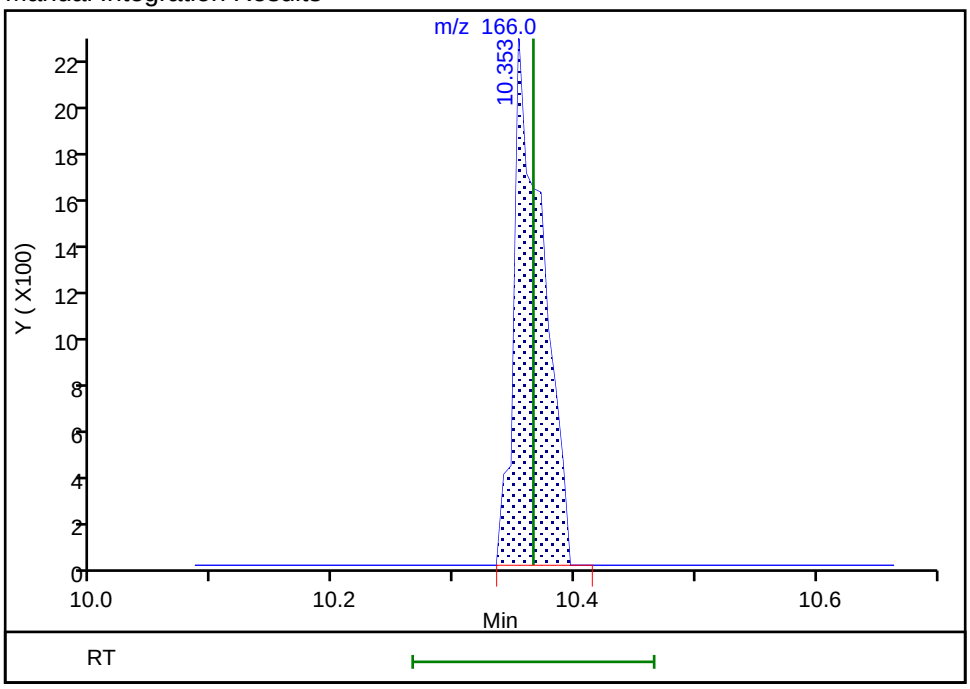
Processing Integration Results

RT: 10.35
Area: 2362
Amount: 0.028290
Amount Units: ug/l



Manual Integration Results

RT: 10.35
Area: 3781
Amount: 0.045286
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:52:48

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.: 410-30627-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1 Lab Sample ID: 410-30627-13

Matrix: Water Lab File ID: IM03S48.D

Analysis Method: 8260D Date Collected: 02/25/2021 12:00

Sample wt/vol: 25(mL) Date Analyzed: 03/04/2021 03:38

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.: 99333 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	^c	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	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.: 410-30627-1

SDG No.:

Client Sample ID: HD-QC1-0/1-1 Lab Sample ID: 410-30627-13

Matrix: Water Lab File ID: IM03S48.D

Analysis Method: 8260D Date Collected: 02/25/2021 12:00

Sample wt/vol: 25(mL) Date Analyzed: 03/04/2021 03:38

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.: 99333 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)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		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\19930\20210303-23228.b\IM03S48.D
Lims ID: 410-30627-A-13
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 04-Mar-2021 03:38:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-026
Misc. Info.: 410-30627-A-13
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

First Level Reviewer: knouses Date: 04-Mar-2021 12:55:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.190	2.184	0.006	1	3370	0.0391	M
5 Vinyl chloride	62		2.306				ND	
7 Bromomethane	94		2.629				ND	
8 Chloroethane	64		2.709				ND	
14 1,1-Dichloroethene	96		3.574				ND	
15 Acetone	43	3.611	3.605	0.006	97	14746	1.51	
19 Carbon disulfide	76	3.873	3.885	-0.012	99	7318	0.0455	
23 Methylene Chloride	84		4.251				ND	7
* 24 t-Butyl alcohol-d10 (IS)	65	4.251	4.275	-0.024	0	179372	50.0	
27 Methyl tert-butyl ether	73		4.659				ND	
28 trans-1,2-Dichloroethene	96		4.672				ND	
31 1,1-Dichloroethane	63		5.330				ND	
36 2-Butanone (MEK)	43		6.122				ND	7
37 cis-1,2-Dichloroethene	96	6.165	6.159	0.006	77	3259	0.0458	
43 Chlorobromomethane	128		6.488				ND	
45 Chloroform	83	6.635	6.641	-0.006	12	2220	0.0203	7M
$ 46 Dibromofluoromethane (Surr)	113	6.854	6.854	0.000	94	526711	10.2	
47 1,1,1-Trichloroethane	97		6.866				ND	
50 Carbon tetrachloride	117		7.080				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.311	7.305	0.006	0	107382	10.4	
54 Benzene	78	7.330	7.336	-0.006	87	3517	0.0133	7M
56 1,2-Dichloroethane	62	7.409	7.409	0.000	1	2057	0.0319	M
* 58 Fluorobenzene (IS)	96	7.738	7.738	0.000	99	2081917	10.0	
61 Trichloroethene	95	8.226	8.214	0.012	86	3745	0.0542	M
63 1,2-Dichloropropane	63		8.549				ND	
68 Dichlorobromomethane	83		8.890				ND	
73 cis-1,3-Dichloropropene	75		9.433				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.597				ND	7
$ 75 Toluene-d8 (Surr)	98	9.744	9.738	0.006	93	2060223	9.75	
76 Toluene	92		9.817				ND	7
78 trans-1,3-Dichloropropene	75		10.067				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
80 1,1,2-Trichloroethane	97		10.274				ND	
81 Tetrachloroethene	166	10.372	10.366	0.006	93	4076	0.0477	
83 2-Hexanone	43		10.481				ND	
85 Chlorodibromomethane	129		10.652				ND	
86 Ethylene Dibromide	107		10.762				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	0.000	85	1617598	10.0	
90 Chlorobenzene	112		11.213				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.298				ND	
92 Ethylbenzene	91		11.298				ND	7
93 m-Xylene & p-Xylene	106		11.414				ND	7
94 o-Xylene	106	11.743	11.743	0.000	1	907	0.006940	7M
95 Styrene	104		11.756				ND	
96 Bromoform	173		11.914				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.182	12.182	0.000	94	760940	9.73	
101 1,1,2,2-Tetrachloroethane	83		12.286				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	94	929958	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_31_826ISS_00004 Amount Added: 5.00 Units: uL Run Reagent

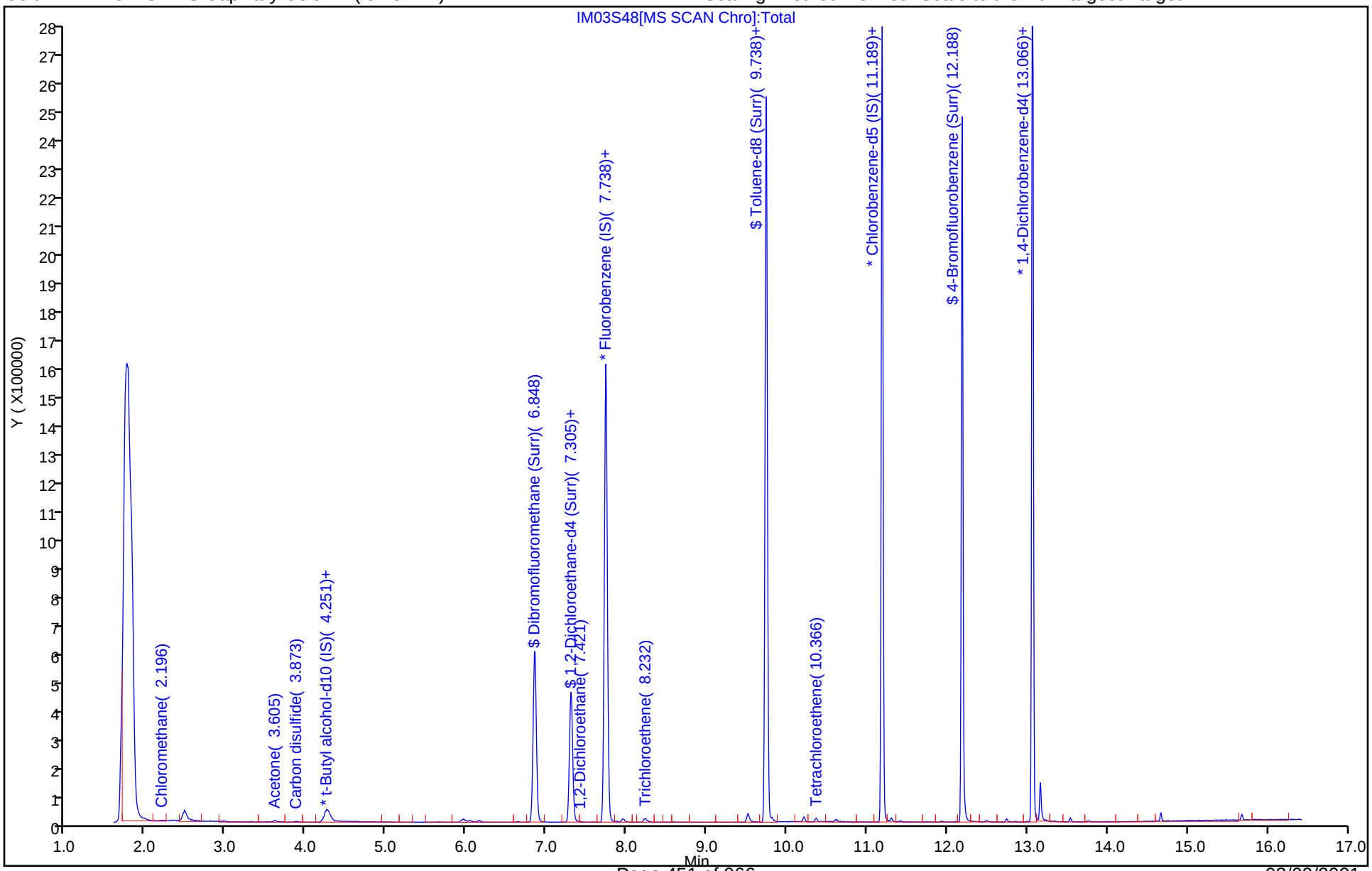
Report Date: 04-Mar-2021 13:07:41 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S48.D

Injection Date:	04-Mar-2021 03:38:30	Instrument ID:	19930	Operator ID:	MEC29284
Lims ID:	410-30627-A-13	Lab Sample ID:	410-30627-13	Worklist Smp#:	26
Client ID:	HD-QC1-0/1-1				
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: 2



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S48.D
Lims ID: 410-30627-A-13
Client ID: HD-QC1-0/1-1
Sample Type: Client
Inject. Date: 04-Mar-2021 03:38:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-026
Misc. Info.: 410-30627-A-13
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

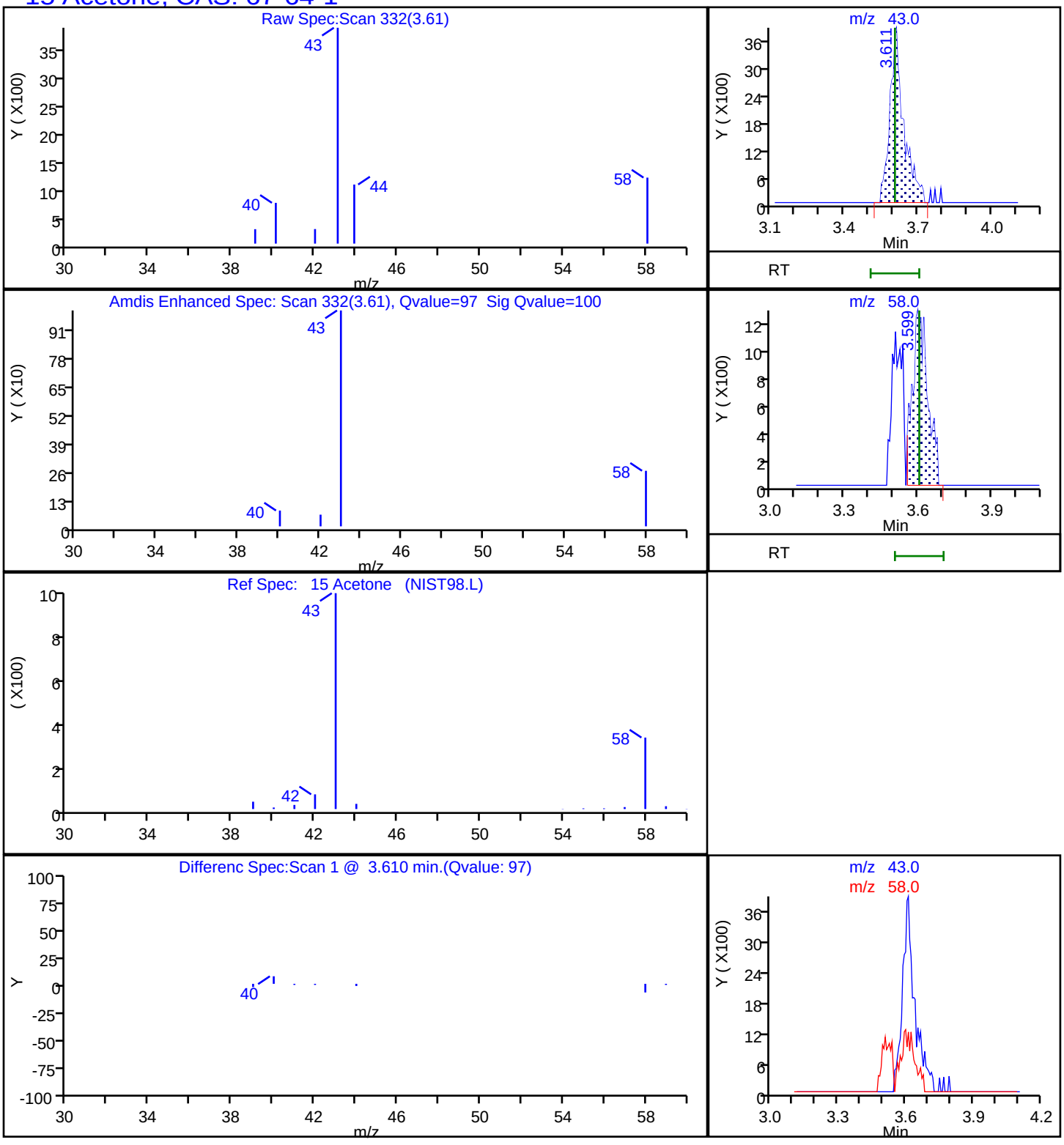
First Level Reviewer: knouses Date: 04-Mar-2021 12:55:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.2	102.46
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	103.61
$ 75 Toluene-d8 (Surr)	10.0	9.75	97.53
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.73	97.27

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S48.D				
Injection Date:	04-Mar-2021 03:38:30	Instrument ID:	19930		
Lims ID:	410-30627-A-13	Lab Sample ID:	410-30627-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	MEC29284	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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

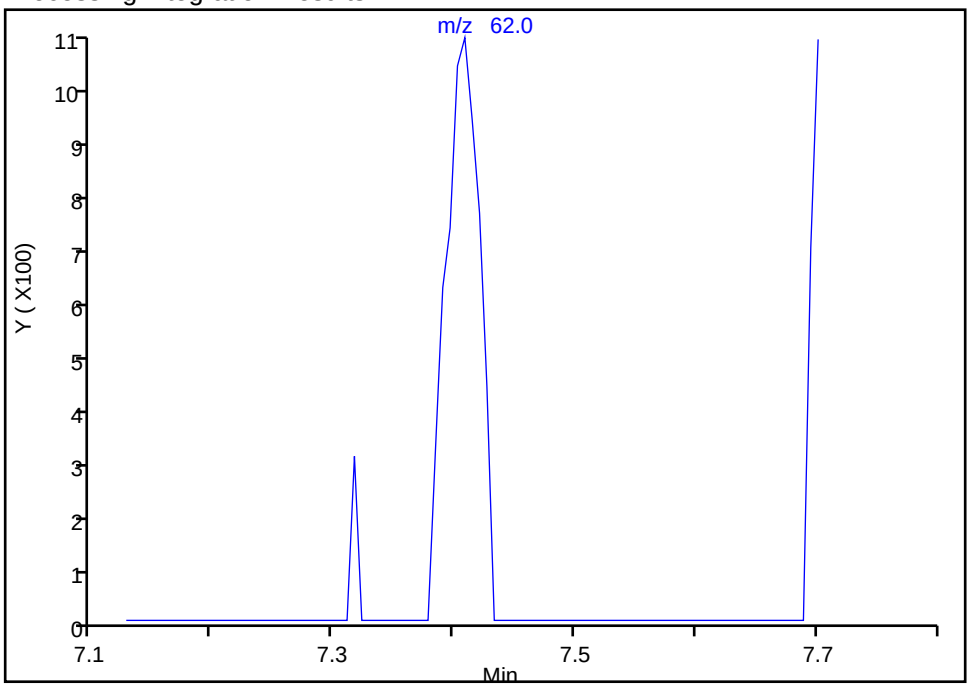
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S48.D				
Injection Date:	04-Mar-2021 03:38:30	Instrument ID:	19930		
Lims ID:	410-30627-A-13	Lab Sample ID:	410-30627-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	MEC29284	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

56 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

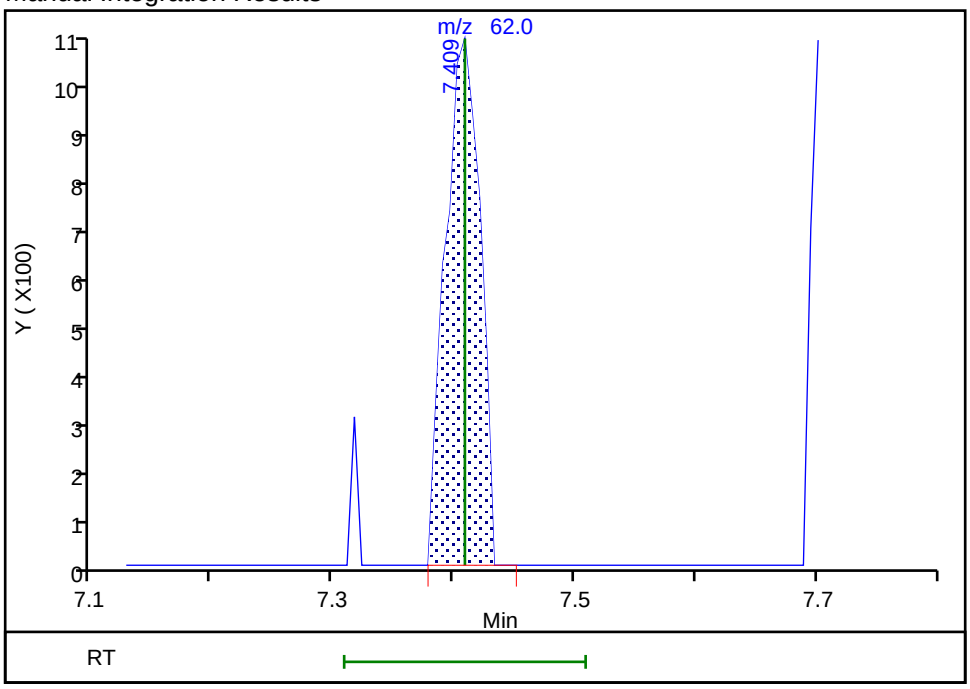
Not Detected
Expected RT: 7.41

Processing Integration Results



Manual Integration Results

RT: 7.41
Area: 2057
Amount: 0.031938
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:54:18
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

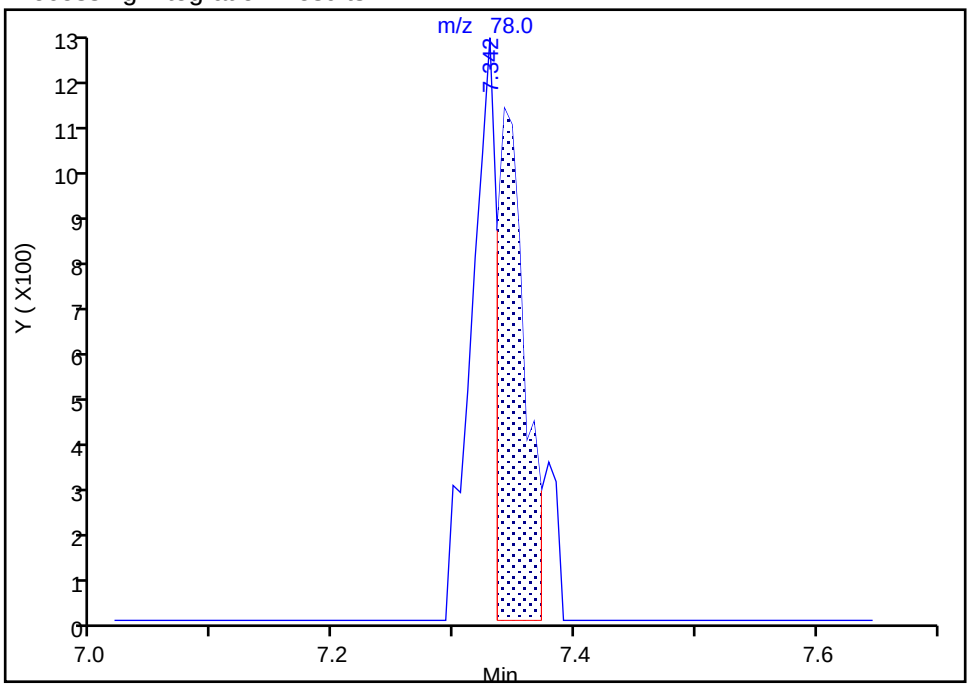
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S48.D				
Injection Date:	04-Mar-2021 03:38:30	Instrument ID:	19930		
Lims ID:	410-30627-A-13	Lab Sample ID:	410-30627-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	MEC29284	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

54 Benzene, CAS: 71-43-2

Signal: 1

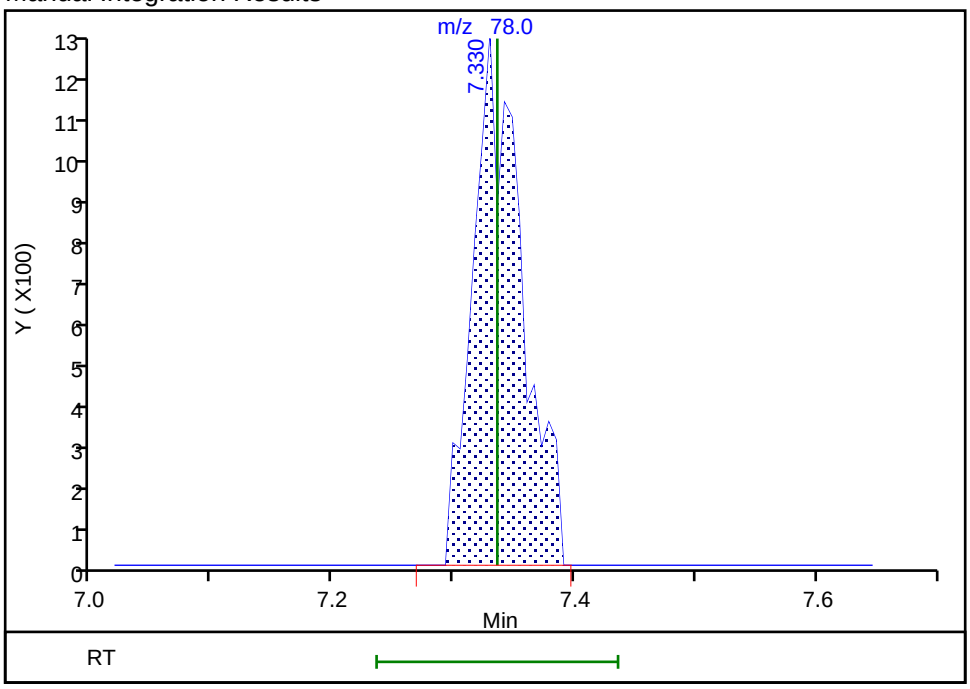
Processing Integration Results

RT: 7.34
Area: 1791
Amount: 0.006790
Amount Units: ug/l



Manual Integration Results

RT: 7.33
Area: 3517
Amount: 0.013333
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:54:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

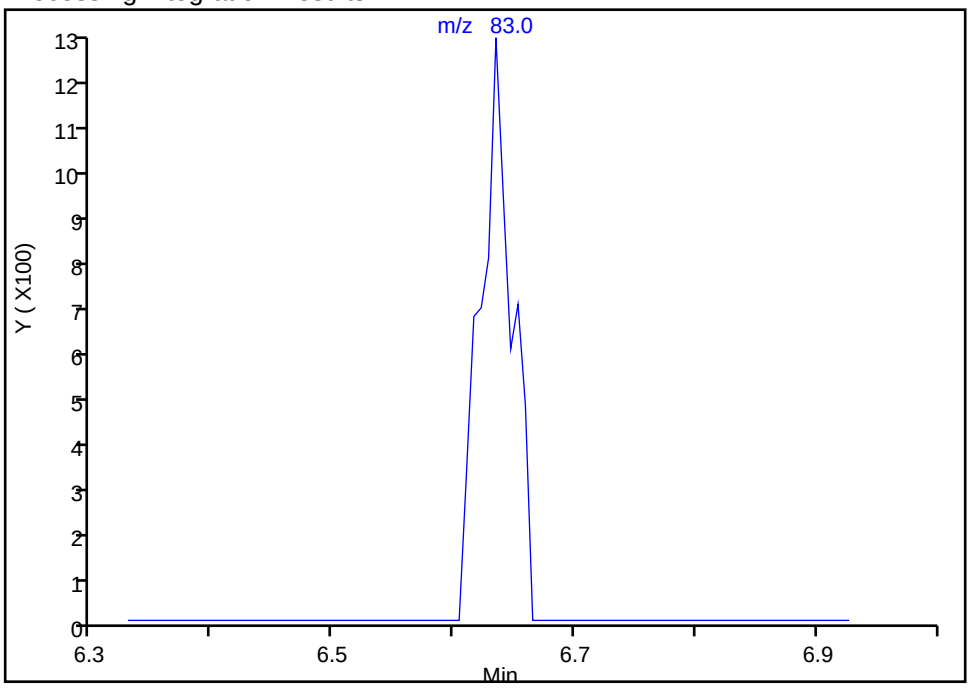
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S48.D				
Injection Date:	04-Mar-2021 03:38:30	Instrument ID:	19930		
Lims ID:	410-30627-A-13	Lab Sample ID:	410-30627-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	MEC29284	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	25.000 mL	Dil. 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

Signal: 1

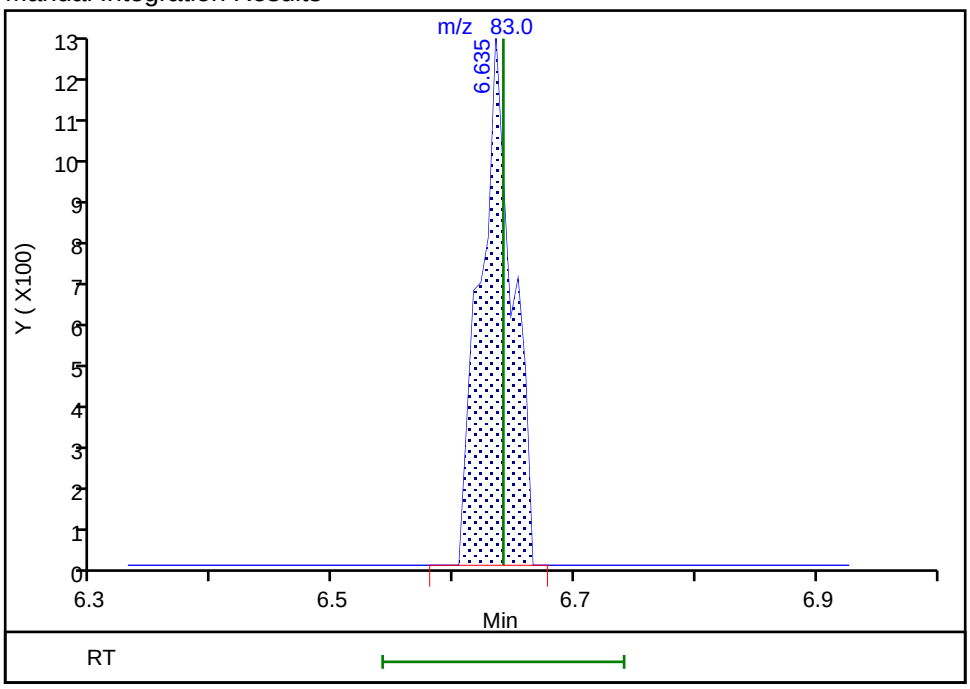
Not Detected
Expected RT: 6.64

Processing Integration Results



Manual Integration Results

RT: 6.63
Area: 2220
Amount: 0.020330
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:53:45
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

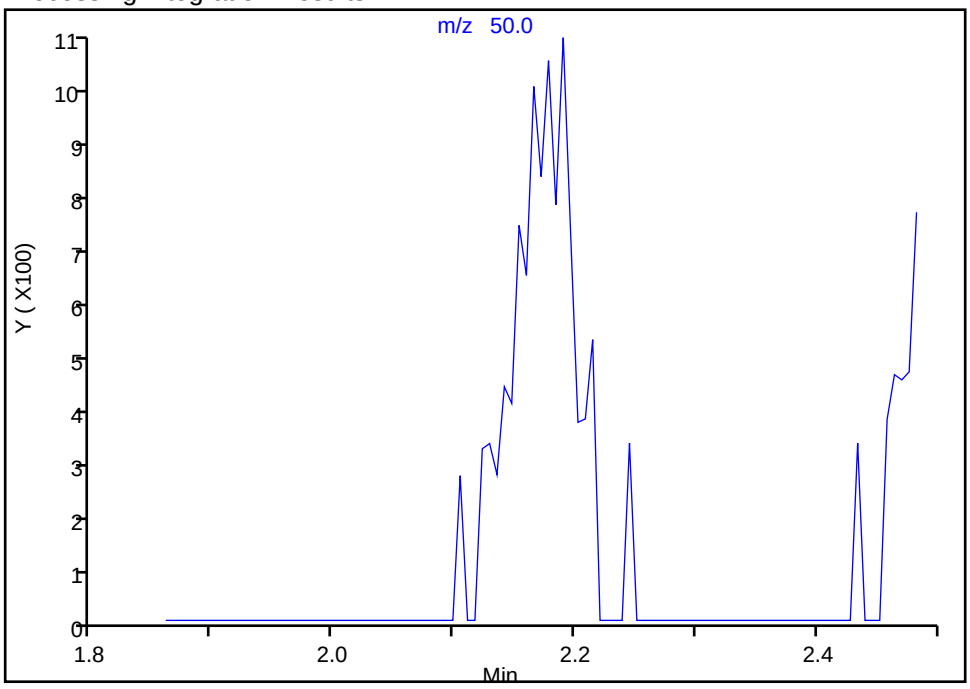
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S48.D				
Injection Date:	04-Mar-2021 03:38:30	Instrument ID:	19930		
Lims ID:	410-30627-A-13	Lab Sample ID:	410-30627-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	MEC29284	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

4 Chloromethane, CAS: 74-87-3

Signal: 1

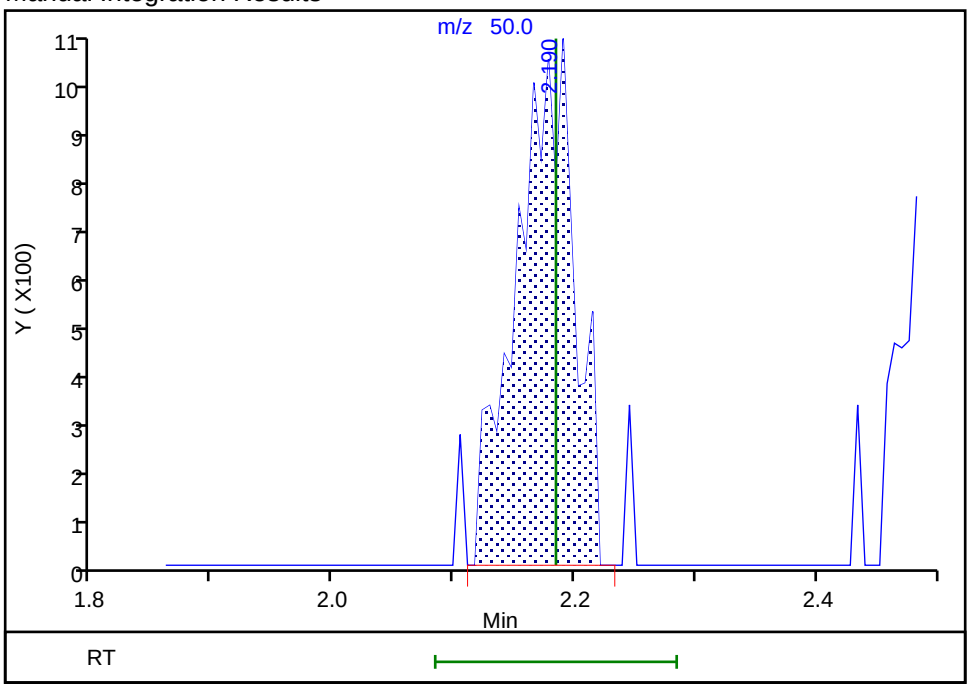
Not Detected
Expected RT: 2.18

Processing Integration Results



Manual Integration Results

RT: 2.19
Area: 3370
Amount: 0.039086
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:53:29
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

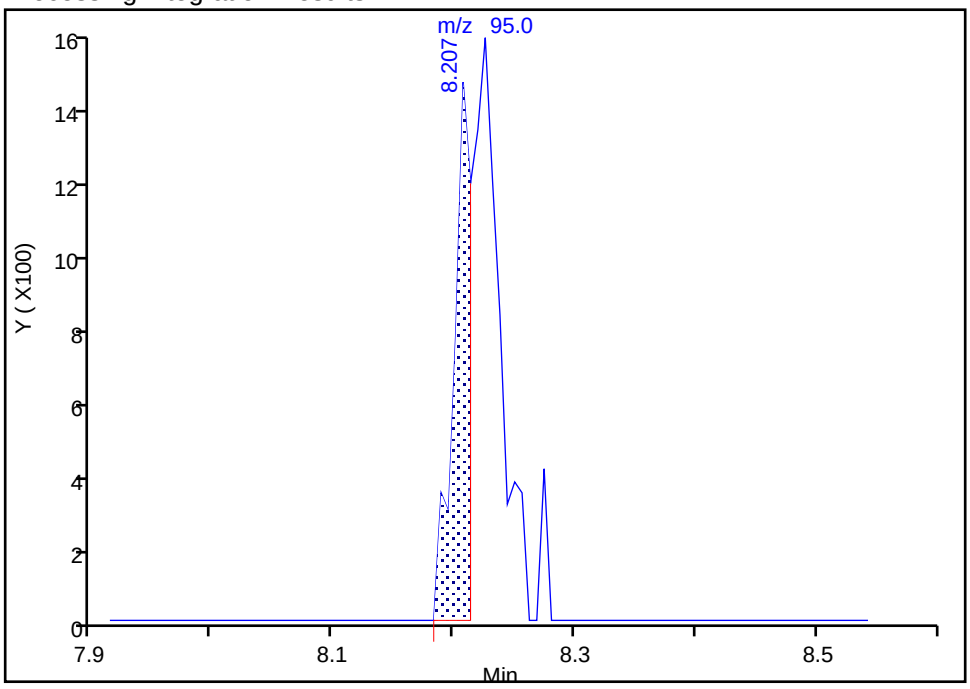
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S48.D				
Injection Date:	04-Mar-2021 03:38:30	Instrument ID:	19930		
Lims ID:	410-30627-A-13	Lab Sample ID:	410-30627-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	MEC29284	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	25.000 mL	Dil. 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

Signal: 1

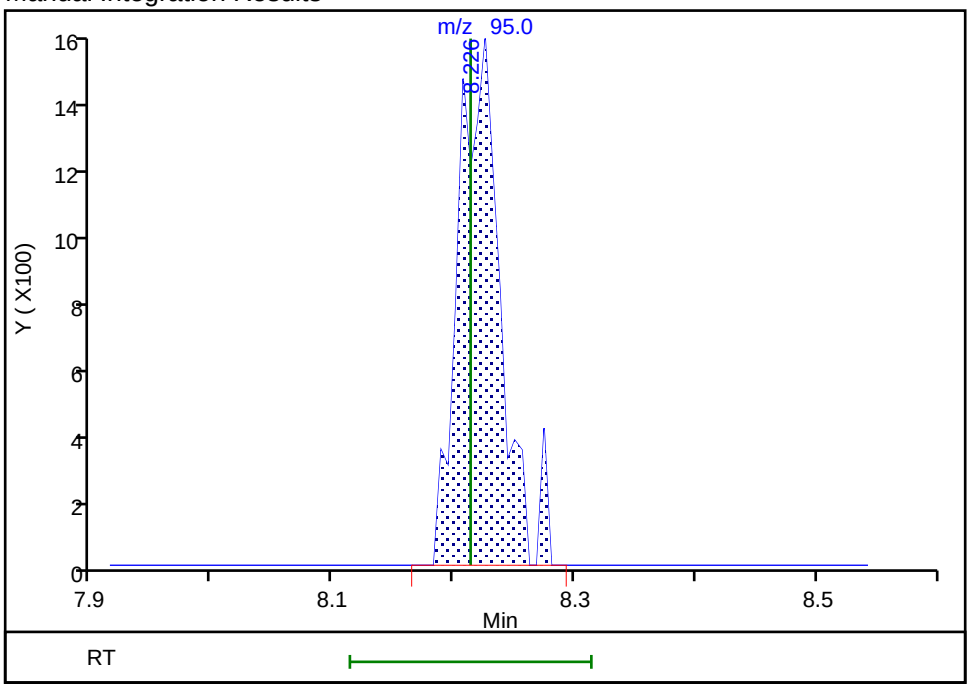
Processing Integration Results

RT: 8.21
Area: 1460
Amount: 0.021145
Amount Units: ug/l



Manual Integration Results

RT: 8.23
Area: 3745
Amount: 0.054239
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:54:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

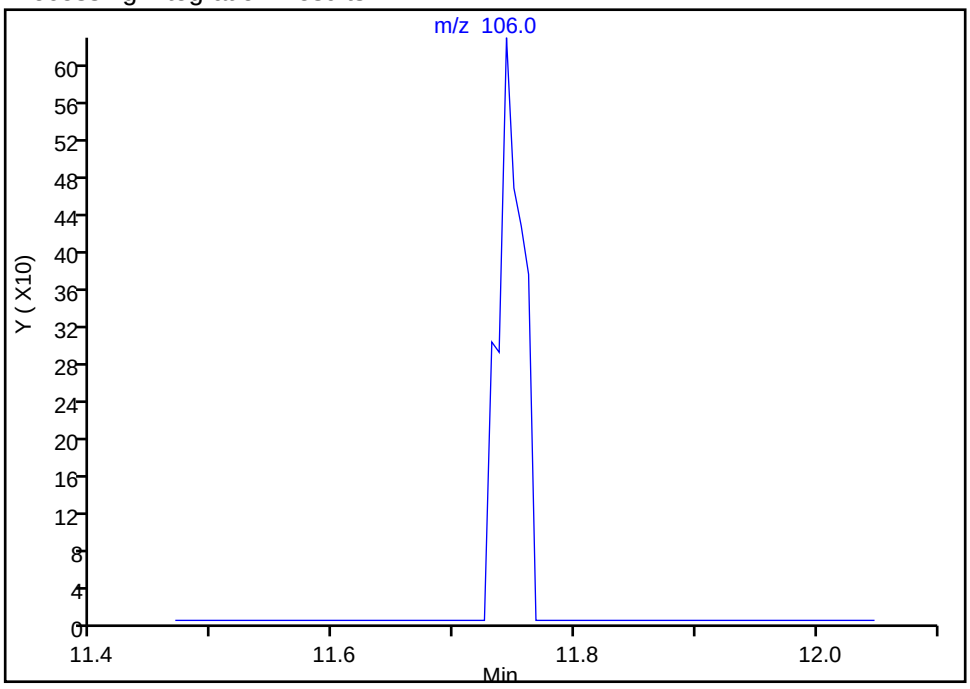
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S48.D				
Injection Date:	04-Mar-2021 03:38:30	Instrument ID:	19930		
Lims ID:	410-30627-A-13	Lab Sample ID:	410-30627-13		
Client ID:	HD-QC1-0/1-1				
Operator ID:	MEC29284	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

94 o-Xylene, CAS: 95-47-6

Signal: 1

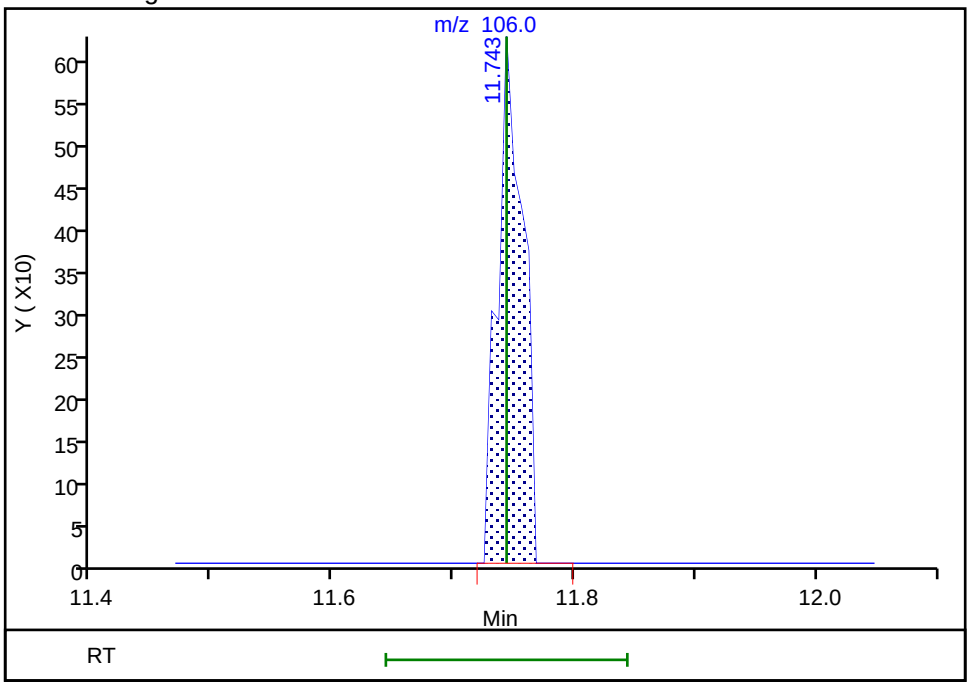
Not Detected
Expected RT: 11.74

Processing Integration Results



Manual Integration Results

RT: 11.74
Area: 907
Amount: 0.006940
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:55:05
Audit Action: Manually Integrated Audit Reason: Missed Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: HD-QC1-0/1-2 Lab Sample ID: 410-30627-14

Matrix: Water Lab File ID: IM03S31.D

Analysis Method: 8260D Date Collected: 02/25/2021 00:00

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 21:36

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.: 99333 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	^c	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	0.18	J	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.: 410-30627-1

SDG No.:

Client Sample ID: HD-QC1-0/1-2 Lab Sample ID: 410-30627-14

Matrix: Water Lab File ID: IM03S31.D

Analysis Method: 8260D Date Collected: 02/25/2021 00:00

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 21:36

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.: 99333 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)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		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\19930\20210303-23228.b\IM03S31.D
Lims ID: 410-30627-A-14
Client ID: HD-QC1-0/1-2
Sample Type: Client
Inject. Date: 03-Mar-2021 21:36:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-009
Misc. Info.: 410-30627-A-14
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

First Level Reviewer: knouses Date: 04-Mar-2021 12:20:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	2.172	2.184	-0.012	97	5145	0.0570	
5 Vinyl chloride	62		2.306				ND	
7 Bromomethane	94		2.629				ND	
8 Chloroethane	64		2.709				ND	
14 1,1-Dichloroethene	96		3.574				ND	
15 Acetone	43	3.623	3.605	0.018	66	4312	0.4691	
19 Carbon disulfide	76		3.885				ND	7
23 Methylene Chloride	84	4.257	4.251	0.006	44	11407	0.1771	
* 24 t-Butyl alcohol-d10 (IS)	65	4.257	4.275	-0.018	0	168591	50.0	
27 Methyl tert-butyl ether	73		4.659				ND	
28 trans-1,2-Dichloroethene	96		4.672				ND	
31 1,1-Dichloroethane	63		5.330				ND	
36 2-Butanone (MEK)	43		6.122				ND	
37 cis-1,2-Dichloroethene	96		6.159				ND	
43 Chlorobromomethane	128		6.488				ND	
45 Chloroform	83		6.641				ND	
$ 46 Dibromofluoromethane (Surr)	113	6.854	6.854	0.000	94	548704	10.2	
47 1,1,1-Trichloroethane	97		6.866				ND	
50 Carbon tetrachloride	117		7.080				ND	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.305	7.305	0.000	0	111927	10.3	
54 Benzene	78		7.336				ND	
56 1,2-Dichloroethane	62	7.427	7.409	0.018	1	1777	0.0264	M
* 58 Fluorobenzene (IS)	96	7.738	7.738	0.000	99	2179616	10.0	
61 Trichloroethene	95		8.214				ND	
63 1,2-Dichloropropane	63		8.549				ND	
68 Dichlorobromomethane	83		8.890				ND	
73 cis-1,3-Dichloropropene	75		9.433				ND	
74 4-Methyl-2-pentanone (MIBK)	43		9.597				ND	
$ 75 Toluene-d8 (Surr)	98	9.744	9.738	0.006	94	2168498	9.83	
76 Toluene	92		9.817				ND	7
78 trans-1,3-Dichloropropene	75		10.067				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
80 1,1,2-Trichloroethane	97		10.274				ND	
81 Tetrachloroethene	166		10.366				ND	
83 2-Hexanone	43		10.481				ND	
85 Chlorodibromomethane	129		10.652				ND	
86 Ethylene Dibromide	107		10.762				ND	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	0.000	85	1688476	10.0	
90 Chlorobenzene	112		11.213				ND	
S 89 Xylenes, Total	106		11.245				ND	7
91 1,1,1,2-Tetrachloroethane	131		11.298				ND	
92 Ethylbenzene	91		11.298				ND	
93 m-Xylene & p-Xylene	106		11.414				ND	
94 o-Xylene	106		11.743				ND	
95 Styrene	104		11.756				ND	
96 Bromoform	173		11.914				ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.182	12.182	0.000	93	790845	9.68	
101 1,1,2,2-Tetrachloroethane	83		12.286				ND	
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	94	958169	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

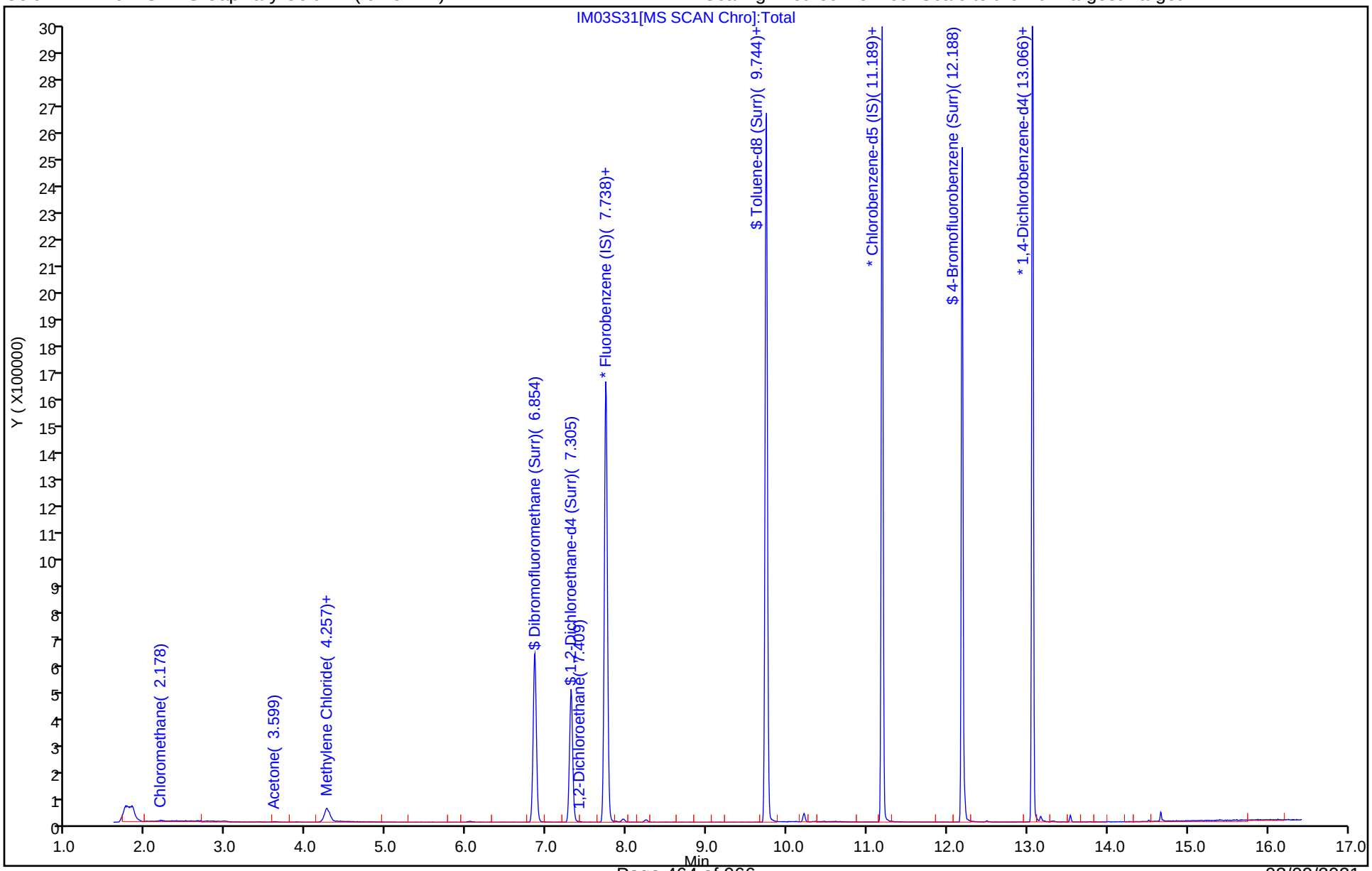
MSV_31_826ISS_00004 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 04-Mar-2021 13:06:48 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S31.D				
Injection Date:	03-Mar-2021 21:36:30	Instrument ID:	19930	Operator ID:	MEC29284
Lims ID:	410-30627-A-14	Lab Sample ID:	410-30627-14	Worklist Smp#:	9
Client ID:	HD-QC1-0/1-2				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S31.D				
Lims ID:	410-30627-A-14				
Client ID:	HD-QC1-0/1-2				
Sample Type:	Client				
Inject. Date:	03-Mar-2021 21:36:30	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0023228-009				
Misc. Info.:	410-30627-A-14				
Operator ID:	MEC29284	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	04-Mar-2021 13:06:32	Calib Date:	23-Nov-2020 18:05:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1631				

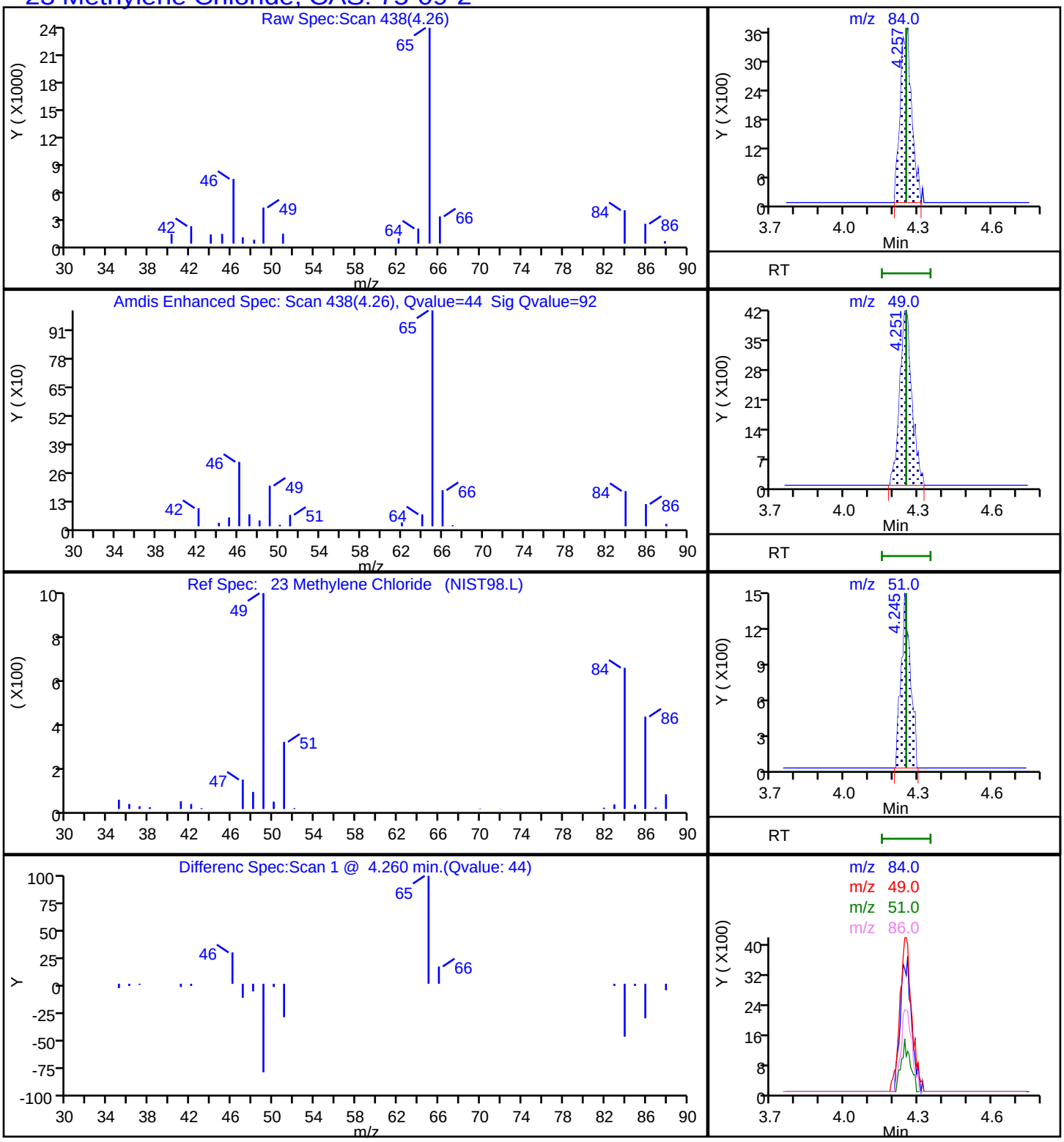
First Level Reviewer: knouses Date: 04-Mar-2021 12:20:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.2	101.96
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.15
$ 75 Toluene-d8 (Surr)	10.0	9.83	98.34
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.68	96.85

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S31.D				
Injection Date:	03-Mar-2021 21:36:30	Instrument ID:	19930		
Lims ID:	410-30627-A-14	Lab Sample ID:	410-30627-14		
Client ID:	HD-QC1-0/1-2				
Operator ID:	MEC29284	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

23 Methylene Chloride, CAS: 75-09-2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

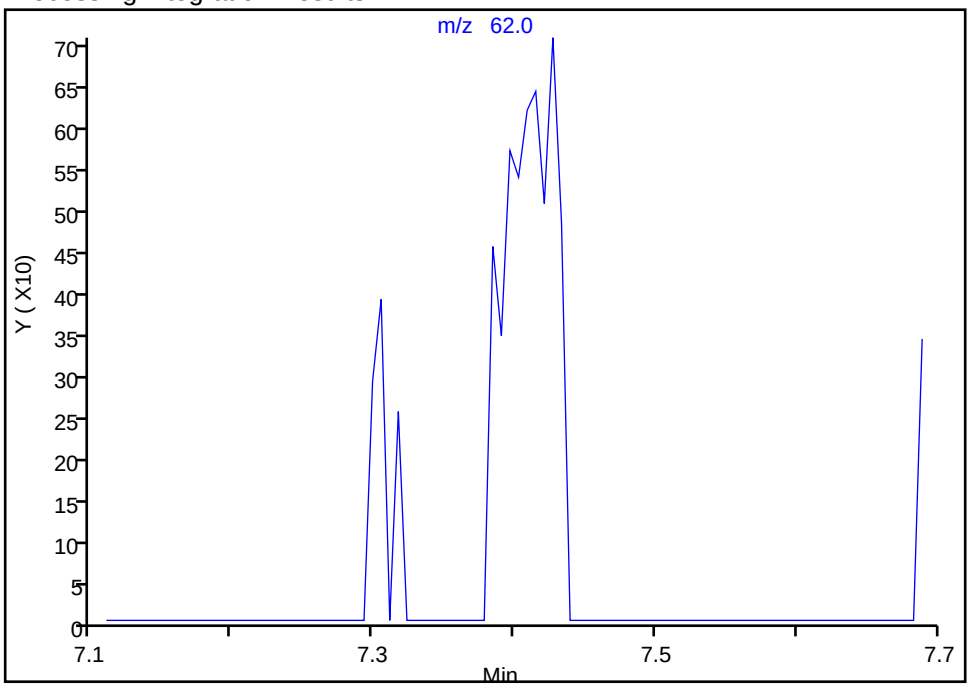
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S31.D				
Injection Date:	03-Mar-2021 21:36:30	Instrument ID:	19930		
Lims ID:	410-30627-A-14	Lab Sample ID:	410-30627-14		
Client ID:	HD-QC1-0/1-2				
Operator ID:	MEC29284	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

56 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

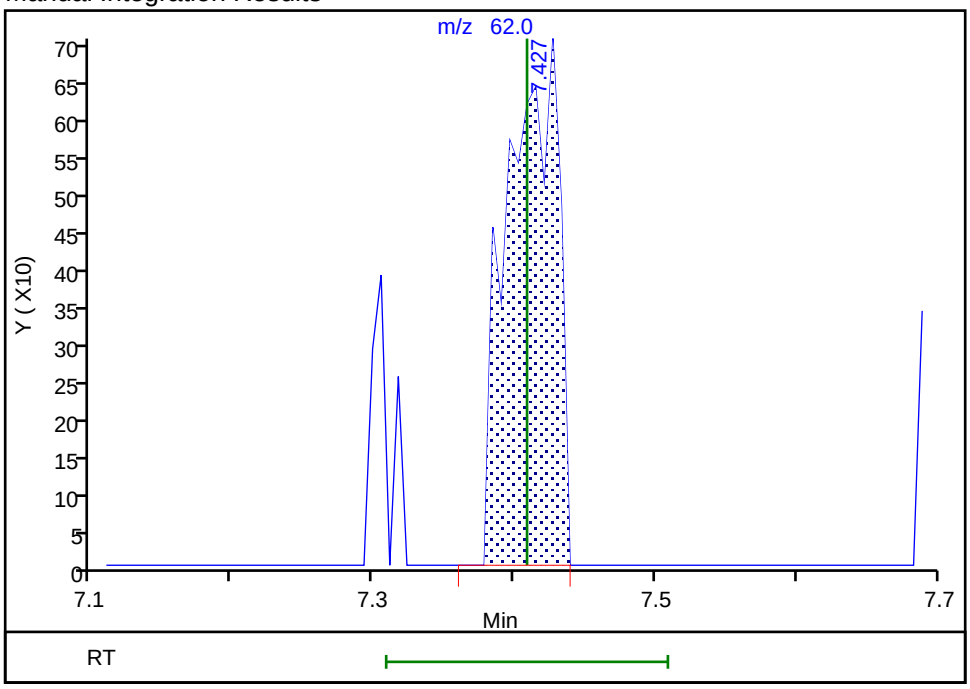
Not Detected
Expected RT: 7.41

Processing Integration Results



Manual Integration Results

RT: 7.43
Area: 1777
Amount: 0.026354
Amount Units: ug/l



Reviewer: knouses, 04-Mar-2021 12:19:56
Audit Action: Manually Integrated Audit Reason: Missed Peak

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-70996/9	GN30I07.D
Level 2	IC 410-70996/8	GN30I06.D
Level 3	IC 410-70996/7	GN30I05.D
Level 4	IC 410-70996/6	GN30I04.D
Level 5	IC 410-70996/5	GN30I03.D
Level 6	ICIS 410-70996/4	GN30I02.D
Level 7	IC 410-70996/3	GN30I01.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	0.2368 0.2560	0.2662 0.2659	0.2678	0.2708	0.2566	Ave		0.2600			0.1000	4.5		20.0			
Chloromethane	0.3865 0.3323	0.3740 0.3289	0.3543	0.3488	0.3310	Ave		0.3508			0.1000	6.4		20.0			
1,3-Butadiene	0.4818 0.3395	0.4668 0.3285	0.4287	0.3894	0.3604	Ave		0.3993				15.3		20.0			
Vinyl chloride	0.3159 0.2911	0.3084 0.2925	0.2956	0.3035	0.2894	Ave		0.2995			0.1000	3.3		20.0			
Bromomethane	0.2376 0.1945	0.2188 0.1939	0.2080	0.2091	0.1990	Ave		0.2087			0.1000	7.5		20.0			
Chloroethane	0.2020 0.1743	0.1888 0.1718	0.1750	0.1835	0.1765	Ave		0.1817			0.1000	5.9		20.0			
Dichlorofluoromethane	0.5017 0.3781	0.4250 0.3736	0.3878	0.4005	0.3845	Ave		0.4073			0.1000	11.1		20.0			
Trichlorofluoromethane	0.3322 0.3378	0.3520 0.3476	0.3344	0.3624	0.3462	Ave		0.3447			0.1000	3.1		20.0			
Ethyl ether	0.2029 0.1968	0.2094 0.1981	0.2105	0.2104	0.1960	Ave		0.2035				3.3		20.0			
Freon 123a	0.3029 0.2615	0.2910 0.2660	0.2966	0.2824	0.2714	Ave		0.2817				5.7		20.0			
Acrolein	1.9448 1.9018	1.8610 1.9961	1.8171	1.8798	1.8832	Ave		1.8977				3.1		20.0			
1,1-Dichloroethene	0.2138 0.1990	0.2180 0.2009	0.2178	0.2053	0.2034	Ave		0.2083			0.1000	3.9		20.0			
Freon 113	0.1453 0.2066	0.1948 0.2157	0.2243	0.2201	0.2189	Ave		0.2037			0.1000	13.5		20.0			
Acetone	3.1858 2.2113	2.5645 2.3024	2.4764	2.2168	2.2161	Ave		2.4533			0.1000	14.3		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.: 410-30627-1 Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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 iodide	0.3770 0.3811	0.3974 0.3816	0.4099	0.3934	0.3832	Ave		0.3891				3.0		20.0			
Carbon disulfide	0.7515 0.7551	0.7679 0.7566	0.8070	0.7768	0.7599	Ave		0.7678			0.1000	2.5		20.0			
Methyl acetate	9.1363 6.5621	6.6209 7.7655	7.2886	7.4783	7.1352	Ave		7.4267			0.1000	11.7		20.0			
Allyl chloride	0.4283 0.3873	0.4623 0.3893	0.4373	0.4145	0.3988	Ave		0.4168				6.6		20.0			
Methylene Chloride	0.2382 0.2321	0.2393 0.2332	0.2491	0.2445	0.2344	Ave		0.2387			0.1000	2.6		20.0			
t-Butyl alcohol	0.8497 0.8680	0.9516 0.8650	0.9723	0.8999	0.8866	Ave		0.8990				5.1		20.0			
Acrylonitrile	2.9586 3.1288	3.2748 3.2919	3.2521	3.0729	3.2367	Ave		3.1737				3.9		20.0			
Methyl tert-butyl ether	0.6635 0.6373	0.6694 0.6386	0.7123	0.6690	0.6442	Ave		0.6620			0.1000	4.0		20.0			
trans-1,2-Dichloroethene	0.2376 0.2326	0.2463 0.2334	0.2519	0.2445	0.2326	Ave		0.2398			0.1000	3.2		20.0			
n-Hexane	0.2867 0.3432	0.3264 0.3700	0.3750	0.3768	0.3699	Ave		0.3497				9.6		20.0			
1,1-Dichloroethane	0.4270 0.4403	0.4431 0.4420	0.4771	0.4497	0.4365	Ave		0.4451			0.2000	3.5		20.0			
di-Isopropyl ether	0.9062 0.8812	0.9128 0.8785	0.9662	0.9125	0.8808	Ave		0.9055				3.4		20.0			
2-Chloro-1,3-butadiene	0.4041 0.3919	0.4061 0.3944	0.4315	0.4085	0.3968	Ave		0.4048				3.3		20.0			
Ethyl t-butyl ether	0.8224 0.8052	0.8413 0.8030	0.8728	0.8231	0.8119	Ave		0.8257				3.0		20.0			
2-Butanone (MEK)	4.6520 4.4491	4.5519 4.6499	4.6329	4.3702	4.5180	Ave		4.5463			0.1000	2.4		20.0			
cis-1,2-Dichloroethene	0.2564 0.2641	0.2759 0.2643	0.2878	0.2732	0.2633	Ave		0.2693			0.1000	3.9		20.0			
2,2-Dichloropropane	0.3736 0.3604	0.3790 0.3665	0.3915	0.3759	0.3663	Ave		0.3733				2.7		20.0			
Propionitrile	1.0088 1.1203	1.1684 1.1561	1.2108	1.1154	1.1088	Ave		1.1269				5.6		20.0			
Methacrylonitrile	4.4091 4.1503	3.9459 4.3367	4.1583	4.0671	4.1803	Ave		4.1782				3.7		20.0			
Bromochloromethane	0.1217 0.1146	0.1254 0.1158	0.1267	0.1186	0.1174	Ave		0.1200				3.9		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.: 410-30627-1 Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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								
Tetrahydrofuran	1.2005 1.1636	1.1159 1.2081	1.2163	1.1464	1.1769	Ave		1.1754				3.1		20.0			
Chloroform	0.4241 0.4162	0.4361 0.4174	0.4553	0.4333	0.4198	Ave		0.4289			0.2000	3.2		20.0			
1,1,1-Trichloroethane	0.3679 0.3542	0.3769 0.3595	0.3870	0.3679	0.3559	Ave		0.3670			0.1000	3.2		20.0			
Cyclohexane	0.3420 0.4161	0.4199 0.4367	0.4573	0.4449	0.4360	Ave		0.4218			0.1000	9.0		20.0			
Carbon tetrachloride	0.3123 0.3112	0.3148 0.3194	0.3396	0.3190	0.3115	Ave		0.3183			0.1000	3.1		20.0			
1,1-Dichloropropene	0.3441 0.3339	0.3429 0.3430	0.3610	0.3520	0.3373	Ave		0.3449				2.6		20.0			
Isobutyl alcohol	0.0068 0.0052	0.0054 0.0052	0.0061	0.0055	0.0053	Ave		0.0057				10.6		20.0			
Benzene	1.0017 0.9873	1.0172 0.9996	1.0905	1.0301	0.9893	Ave		1.0165			0.5000	3.5		20.0			
1,2-Dichloroethane	0.3204 0.2618	0.2980 0.2685	0.2976	0.2780	0.2656	Ave		0.2843			0.1000	7.6		20.0			
t-Amyl methyl ether	0.7252 0.7069	0.7307 0.7066	0.7818	0.7345	0.7088	Ave		0.7278				3.6		20.0			
n-Heptane	0.3399 0.3914	0.3695 0.4239	0.4108	0.4097	0.4167	Ave		0.3945				7.7		20.0			
n-Butanol	0.3526 0.3142	0.3215 0.3224	0.3129	0.3182	0.3198	Ave		0.3231				4.2		20.0			
Trichloroethene	0.2659 0.2521	0.2619 0.2540	0.2695	0.2633	0.2503	Ave		0.2596			0.2000	2.9		20.0			
Methylcyclohexane	0.3576 0.3955	0.4154 0.4155	0.4132	0.4131	0.4113	Ave		0.4031			0.1000	5.3		20.0			
1,2-Dichloropropane	0.2764 0.2646	0.2751 0.2634	0.2909	0.2701	0.2629	Ave		0.2719			0.1000	3.7		20.0			
Methyl methacrylate	8.4555 8.4558	8.3239 8.9257	8.5022	8.3048	8.6057	Ave		8.5105				2.5		20.0			
1,4-Dioxane	0.0338 0.0625	0.0557 0.0631	0.0575	0.0672	0.0625	Ave		0.0575			0.0050	19.3		20.0			
Dibromomethane	0.1296 0.1226	0.1259 0.1239	0.1333	0.1251	0.1218	Ave		0.1260				3.3		20.0			
Bromodichloromethane	0.3106 0.3144	0.3050 0.3189	0.3322	0.3171	0.3091	Ave		0.3153			0.2000	2.8		20.0			
2-Nitropropane	2.4618 2.4156	2.2909 2.5645	2.4079	2.3139	2.4372	Ave		2.4131				3.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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								
cis-1,3-Dichloropropene	0.3958 0.4012	0.4084 0.4132	0.4313	0.4116	0.4036	Ave		0.4093			0.2000	2.8		20.0			
4-Methyl-2-pentanone (MIBK)	11.696 11.678	11.385 11.961	11.883	11.358	11.750	Ave		11.673			0.1000	2.0		20.0			
Toluene	0.8735 0.8410	0.8787 0.8422	0.9144	0.8681	0.8484	Ave		0.8666			0.4000	3.0		20.0			
trans-1,3-Dichloropropene	0.4485 0.4678	0.4666 0.4735	0.4784	0.4703	0.4700	Ave		0.4679			0.1000	2.0		20.0			
Ethyl methacrylate	0.4267 0.4178	0.4069 0.4096	0.4408	0.4285	0.4128	Ave		0.4204				2.9		20.0			
1,1,2-Trichloroethane	0.2513 0.2433	0.2624 0.2439	0.2703	0.2532	0.2453	Ave		0.2528			0.1000	4.0		20.0			
Tetrachloroethene	0.3630 0.3679	0.3860 0.3728	0.3919	0.3792	0.3711	Ave		0.3760			0.2000	2.7		20.0			
1,3-Dichloropropane	0.4642 0.4402	0.4635 0.4417	0.4827	0.4548	0.4449	Ave		0.4560				3.4		20.0			
2-Hexanone	8.4134 8.4221	8.0551 8.7386	8.3204	8.2560	8.5645	Ave		8.3957			0.1000	2.6		20.0			
Dibromochloromethane	0.2790 0.3043	0.2850 0.3109	0.3146	0.3034	0.3016	Ave		0.2998				4.4		20.0			
1,2-Dibromoethane (EDB)	0.2472 0.2422	0.2457 0.2444	0.2626	0.2507	0.2443	Ave		0.2482			0.1000	2.8		20.0			
1-Chlorohexane	0.5856 0.4836	0.5459 0.4876	0.5425	0.5056	0.4925	Ave		0.5205				7.4		20.0			
Chlorobenzene	0.9694 0.9420	0.9847 0.9413	1.0084	0.9677	0.9436	Ave		0.9653			0.5000	2.6		20.0			
1,1,1,2-Tetrachloroethane	0.3288 0.3431	0.3338 0.3450	0.3600	0.3479	0.3423	Ave		0.3430				2.9		20.0			
Ethylbenzene	1.7755 1.6522	1.7215 1.6522	1.8045	1.7106	1.6703	Ave		1.7124			0.1000	3.5		20.0			
m&p-Xylene	0.6303 0.6325	0.6463 0.6343	0.6858	0.6521	0.6362	Ave		0.6453			0.1000	3.0		20.0			
o-Xylene	0.6524 0.6249	0.6497 0.6301	0.6620	0.6342	0.6268	Ave		0.6400			0.3000	2.3		20.0			
Styrene	1.0833 1.0667	1.0941 1.0702	1.1441	1.1059	1.0699	Ave		1.0906			0.3000	2.5		20.0			
Bromoform	0.1479 0.1859	0.1627 0.1929	0.1753	0.1784	0.1822	Ave		0.1750			0.1000	8.7		20.0			
Isopropylbenzene	1.6857 1.6374	1.6628 1.6363	1.7542	1.6896	1.6520	Ave		1.6740			0.1000	2.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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								
1,1,2,2-Tetrachloroethane	0.5902 0.6232	0.6428 0.6177	0.6602	0.6428	0.6232	Ave		0.6286			0.3000	3.6		20.0			
Bromobenzene	0.7516 0.7370	0.7538 0.7418	0.8074	0.7608	0.7302	Ave		0.7547				3.4		20.0			
trans-1,4-Dichloro-2-butene	3.1378 3.9168	3.2490 4.2032	3.4681	3.5618	3.8283	Ave		3.6236				10.5		20.0			
1,2,3-Trichloropropane	0.1468 0.1564	0.1683 0.1540	0.1787	0.1639	0.1534	Ave		0.1602				6.7		20.0			
N-Propylbenzene	3.8085 3.6437	3.8314 3.6182	3.9342	3.8079	3.6943	Ave		3.7626				3.0		20.0			
2-Chlorotoluene	0.7437 0.7150	0.7306 0.7301	0.7906	0.7486	0.7213	Ave		0.7400				3.4		20.0			
1,3,5-Trimethylbenzene	2.5579 2.6111	2.6772 2.6267	2.7986	2.6831	2.6274	Ave		2.6546				2.9		20.0			
4-Chlorotoluene	0.7484 0.7495	0.8055 0.7555	0.8263	0.7661	0.7496	Ave		0.7716				4.1		20.0			
tert-Butylbenzene	0.5660 0.5518	0.5860 0.5647	0.5833	0.5591	0.5570	Ave		0.5668				2.3		20.0			
Pentachloroethane	0.4568 0.4818	0.4935 0.4984	0.5005	0.4929	0.4867	Ave		0.4872				3.1		20.0			
1,2,4-Trimethylbenzene	2.7790 2.7142	2.7782 2.7275	2.9168	2.7763	2.7094	Ave		2.7716				2.6		20.0			
sec-Butylbenzene	3.4820 3.3763	3.4174 3.4112	3.6235	3.4743	3.3895	Ave		3.4535				2.5		20.0			
1,3-Dichlorobenzene	1.5196 1.4752	1.5457 1.5040	1.5950	1.5325	1.4802	Ave		1.5218			0.6000	2.7		20.0			
p-Isopropyltoluene	2.9520 2.9374	3.0087 2.9748	3.1925	2.9847	2.9468	Ave		2.9995				3.0		20.0			
1,4-Dichlorobenzene	1.5720 1.4942	1.5904 1.5102	1.6124	1.5600	1.5127	Ave		1.5503			0.5000	2.9		20.0			
1,2,3-Trimethylbenzene	1.3165 1.1680	1.2574 1.1806	1.2686	1.2341	1.1796	Ave		1.2293				4.5		20.0			
Benzyl chloride	0.2641 0.2717	0.2595 0.2754	0.2913	0.2698	0.2713	Ave		0.2719				3.7		20.0			
n-Butylbenzene	1.5804 1.5475	1.6196 1.5630	1.6848	1.5860	1.5416	Ave		1.5890				3.1		20.0			
1,2-Dichlorobenzene	1.4023 1.3754	1.4491 1.3831	1.5174	1.4370	1.3753	Ave		1.4199			0.4000	3.7		20.0			
1,2-Dibromo-3-Chloropropane	0.0866 0.0921	0.0907 0.0929	0.1005	0.0897	0.0887	Ave		0.0916			0.0500	4.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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								
1,3,5-Trichlorobenzene	1.3005 1.2452	1.3075 1.2589	1.3317	1.2404	1.2438	Ave		1.2754				2.9		20.0			
1,2,4-Trichlorobenzene	1.1627 1.1438	1.2549 1.1466	1.2199	1.1628	1.1368	Ave		1.1754			0.2000	3.8		20.0			
Hexachlorobutadiene	0.5964 0.5566	0.6122 0.5730	0.5894	0.5543	0.5576	Ave		0.5771				3.9		20.0			
Naphthalene	2.1901 2.0588	2.1833 2.0314	2.2888	2.1532	2.0650	Ave		2.1387				4.3		20.0			
1,2,3-Trichlorobenzene	1.0554 1.0003	1.1043 0.9938	1.0851	1.0287	0.9943	Ave		1.0374				4.4		20.0			
Dibromofluoromethane (Surr)	0.2387 0.2412	0.2434 0.2414	0.2438	0.2429	0.2428	Ave		0.2420				0.7		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0510 0.0517	0.0510 0.0520	0.0519	0.0518	0.0511	Ave		0.0515				0.9		20.0			
Toluene-d8 (Surr)	1.3449 1.3317	1.3345 1.3197	1.3349	1.3314	1.3421	Ave		1.3342				0.6		20.0			
4-Bromofluorobenzene (Surr)	0.5151 0.5069	0.5107 0.5026	0.5115	0.5101	0.5089	Ave		0.5094				0.8		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
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-70996/9	GN30I07.D
Level 2	IC 410-70996/8	GN30I06.D
Level 3	IC 410-70996/7	GN30I05.D
Level 4	IC 410-70996/6	GN30I04.D
Level 5	IC 410-70996/5	GN30I03.D
Level 6	ICIS 410-70996/4	GN30I02.D
Level 7	IC 410-70996/3	GN30I01.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	10440 575013	29137 1495396	59213	119710	285502	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	17041 746607	40943 1849975	78349	154159	368365	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	21243 762788	51097 1847653	94809	172137	400995	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	13930 653889	33758 1645533	65380	134133	322069	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	10477 437020	23952 1090646	46006	92413	221448	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	8907 391559	20672 966420	38699	81099	196409	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	22123 849408	46525 2101552	85751	177022	427842	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	14649 758912	38530 1955497	73951	160183	385200	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	8950 442210	22931 1114451	46571	93021	218165	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 123a	FB	Ave	13355 587407	31854 1496120	65601	124813	302034	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd10	Ave	71856 3539158	182229 8876973	365629	734398	1726399	10.0 500	25.0 1250	50.0	100	250
1,1-Dichloroethene	FB	Ave	9428 447046	23861 1129827	48163	90732	226327	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 113	FB	Ave	6407 464025	21323 1213458	49604	97294	243555	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBAd10	Ave	23541 823027	50222 2047683	99654	173204	406309	2.00 100	5.00 250	10.0	20.0	50.0
Methyl iodide	FB	Ave	16625	43500	90654	173875	426388	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.: 410-30627-1 Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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
			856231	2146588				10.0	25.0			
Carbon disulfide	FB	Ave	33137 1696280	84062 4255752	178461	343343	845631	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd10	Ave	6751 244232	12966 690648	29330	58429	130819	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	18885 870096	50604 2189679	96698	183197	443750	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	10502 521426	26198 1311628	55096	108056	260868	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd10	Ave	12558 646096	37272 1538645	78250	140629	325105	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd10	Ave	10931 582252	32066 1463905	65434	120047	296709	1.00 50.0	2.50 125	5.00	10.0	25.0
Methyl tert-butyl ether	FB	Ave	29258 1431718	73272 3592103	157517	295684	716859	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	10478 522420	26963 1312619	55706	108056	258856	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	12643 770889	35728 2081061	82931	166559	411619	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	18828 989205	48509 2486421	105511	198755	485770	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	39957 1979657	99922 4941744	213671	403335	980101	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	17821 880335	44458 2218551	95428	180575	441551	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	36262 1808949	92089 4516790	193019	363795	903460	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone (MEK)	TBAd10	Ave	34375 1655912	89142 4135516	186432	341451	828352	2.00 100	5.00 250	10.0	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	11304 593244	30199 1486697	63650	120745	293028	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	16476 809643	41487 2061512	86568	166142	407651	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Propionitrile	TBAd10	Ave	14908 833953	45761 2056391	97449	174294	406595	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd10	Ave	32580	77275	167335	317768	766425	2.00	5.00	10.0	20.0	50.0

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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
			1544674	3857032				100	250			
Bromochloromethane	FB	Ave	5366 257416	13722 651451	28011	52433	130627	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd10	Ave	8871 433079	21854 1074451	48944	89573	215770	2.00 100	5.00 250	10.0	20.0	50.0
Chloroform	FB	Ave	18700 935084	47732 2347914	100689	191526	467191	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	16224 795686	41257 2022017	85584	162606	396057	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	15080 934696	45968 2456493	101123	196628	485144	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	13772 699045	34456 1796395	75097	141008	346656	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	15173 750119	37534 1929345	79831	155596	375317	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	FB	Ave	14998 587299	29644 1475056	67984	121267	292232	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	44170 2218035	111347 5622443	241164	455295	1100869	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	14128 588167	32618 1510198	65819	122885	295549	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	31976 1588018	79984 3974346	172887	324674	788786	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	14986 879279	40450 2384149	90836	181073	463712	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butanol	TBAd10	Ave	26057 1169293	62965 2867258	125899	248576	586370	20.0 1000	50.0 2500	100	200	500
Trichloroethene	FB	Ave	11723 566426	28664 1428934	59598	116383	278479	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	15769 888517	45474 2337109	91381	182602	457689	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	12189 594461	30117 1481659	64320	119367	292517	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl methacrylate	TBAd10	Ave	6248 314713	16301 793834	34214	64887	157779	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBAd10	Ave	1248 116348	5456 280447	11572	26270	57308	10.0 500	25.0 1250	50.0	100	250
Dibromomethane	FB	Ave	5716	13777	29475	55304	135590	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.: 410-30627-1 Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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
			275323	696745				10.0	25.0			
Bromodichloromethane	FB	Ave	13698 706255	33392 1793553	73464	140150	343988	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBAd10	Ave	18191 899063	44863 2280829	96897	180791	446843	2.00 100	5.00 250	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	17452 901197	44710 2324073	95377	181945	449091	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone (MIBK)	TBAd10	Ave	86421 4346527	222955 10637772	478190	887415	2154238	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd5	Ave	27572 1376073	69853 3492002	146327	278591	683495	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd5	Ave	14156 765518	37093 1963134	76563	150936	378649	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd5	Ave	13470 683673	32351 1698291	70532	137503	332561	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2-Trichloroethane	CBZd5	Ave	7932 398053	20860 1011153	43259	81260	197601	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd5	Ave	11458 602059	30689 1545623	62720	121696	298979	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd5	Ave	14652 720295	36850 1831199	77242	145956	358460	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBAd10	Ave	62169 3134600	157747 7771959	334821	645054	1570233	2.00 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd5	Ave	8808 497877	22656 1288980	50339	97381	243007	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane (EDB)	CBZd5	Ave	7804 396354	19536 1013188	42028	80460	196846	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd5	Ave	18485 791218	43401 2021466	86809	162251	396805	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chlorobenzene	CBZd5	Ave	30598 1541301	78284 3902651	161371	310565	760248	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd5	Ave	10378 561469	26540 1430192	57609	111642	275804	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd5	Ave	56042 2703437	136856 6849934	288772	548965	1345750	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd5	Ave	39788 2069783	102766 5259805	219481	418534	1025168	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd5	Ave	20593 1022577	51651 2612526	105945	203530	504969	0.200 10.0	0.500 25.0	1.00	2.00	5.00

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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	CBZd5	Ave	34193 1745400	86978 4437047	183091	354894	861952	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd5	Ave	4668 304248	12931 799958	28046	57245	146803	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd5	Ave	53210 2679183	132190 6784295	280719	542248	1331001	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd4	Ave	10124 553642	27699 1384788	56804	111748	273837	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd4	Ave	12894 654760	32482 1663078	69470	132263	320859	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	TBAd10	Ave	23186 1457770	63627 3738276	139562	278293	701899	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd4	Ave	2519 138980	7254 345318	15377	28491	67388	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd4	Ave	65333 3236978	165110 8111815	338497	661944	1623321	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd4	Ave	12758 635163	31485 1636772	68023	130139	316960	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd4	Ave	43880 2319655	115372 5889002	240788	466416	1154535	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd4	Ave	12838 665842	34713 1693778	71097	133168	329404	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd4	Ave	9709 490248	25251 1265966	50184	97199	244744	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Pentachloroethane	DCBd4	Ave	7836 427979	21266 1117481	43066	85685	213871	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd4	Ave	47673 2411281	119721 6115025	250956	482620	1190575	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd4	Ave	59733 2999448	147266 7647756	311759	603955	1489422	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichlorobenzene	DCBd4	Ave	26068 1310582	66610 3371982	137230	266406	650429	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd4	Ave	50640 2609529	129655 6669275	274677	518846	1294886	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd4	Ave	26967 1327411	68535 3385890	138733	271182	664687	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd4	Ave	22584 1037654	54187 2646951	109147	214525	518339	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd4	Ave	4530 241370	11182 617345	25065	46895	119235	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd4	Ave	27112	69796	144959	275706	677396	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.: 410-30627-1 Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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
			1374780	3504248				10.0	25.0			
1,2-Dichlorobenzene	DCBd4	Ave	24056 1221855	62448 3100816	130553	249800	604314	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	1486 81816	3908 208192	8650	15596	38959	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd4	Ave	22309 1106187	56346 2822323	114581	215623	546533	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trichlorobenzene	DCBd4	Ave	19946 1016153	54078 2570710	104962	202142	499550	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd4	Ave	10231 494492	26381 1284715	50715	96356	245031	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd4	Ave	37571 1828996	94086 4554237	196928	374308	907383	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd4	Ave	18105 888658	47589 2227961	93358	178820	436916	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	526196 541882	532962 543100	539150	536748	540338	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	112511 116084	111685 117092	114722	114415	113626	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd5	Ave	2122568 2179039	2121912 2188553	2136211	2136446	2162628	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd5	Ave	812877 829357	812090 833577	818561	818494	820021	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.: 410-30627-1 Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-70996/9	GN30I07.D
Level 2	IC 410-70996/8	GN30I06.D
Level 3	IC 410-70996/7	GN30I05.D
Level 4	IC 410-70996/6	GN30I04.D
Level 5	IC 410-70996/5	GN30I03.D
Level 6	ICIS 410-70996/4	GN30I02.D
Level 7	IC 410-70996/3	GN30I01.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	-8.9						30					
Chloromethane	10.2						30					
1,3-Butadiene	20.6						30					
Vinyl chloride	5.5						30					
Bromomethane	13.8						30					
Chloroethane	11.2						30					
Dichlorofluoromethane	23.2						30					
Trichlorofluoromethane	-3.6						30					
Ethyl ether	-0.3						30					
Freon 123a	7.5						30					
Acrolein	2.5						30					
1,1-Dichloroethene	2.6						30					
Freon 113	-28.7						30					
Acetone	29.9						30					
Methyl iodide	-3.1						30					

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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
Carbon disulfide	-2.1						30					
Methyl acetate	23.0						30					
Allyl chloride	2.8						30					
Methylene Chloride	-0.2						30					
t-Butyl alcohol	-5.5						30					
Acrylonitrile	-6.8						30					
Methyl tert-butyl ether	0.2						30					
trans-1,2-Dichloroethene	-0.9						30					
n-Hexane	-18.0						30					
1,1-Dichloroethane	-4.1						30					
di-Isopropyl ether	0.1						30					
2-Chloro-1,3-butadiene	-0.2						30					
Ethyl t-butyl ether	-0.4						30					
2-Butanone (MEK)	2.3						30					
cis-1,2-Dichloroethene	-4.8						30					
2,2-Dichloropropane	0.1						30					
Propionitrile	-10.5						30					
Methacrylonitrile	5.5						30					
Bromochloromethane	1.4						30					
Tetrahydrofuran	2.1						30					
Chloroform	-1.1						30					

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,1,1-Trichloroethane	0.2						30					
Cyclohexane	-18.9						30					
Carbon tetrachloride	-1.9						30					
1,1-Dichloropropene	-0.2						30					
Isobutyl alcohol	20.3						30					
Benzene	-1.5						30					
1,2-Dichloroethane	12.7						30					
t-Amyl methyl ether	-0.4						30					
n-Heptane	-13.9						30					
n-Butanol	9.1						30					
Trichloroethene	2.4						30					
Methylcyclohexane	-11.3						30					
1,2-Dichloropropane	1.7						30					
Methyl methacrylate	-0.6						30					
1,4-Dioxane	-41.2 *						30					
Dibromomethane	2.9						30					
Bromodichloromethane	-1.5						30					
2-Nitropropane	2.0						30					
cis-1,3-Dichloropropene	-3.3						30					
4-Methyl-2-pentanone (MIBK)	0.2						30					
Toluene	0.8						30					

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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
trans-1,3-Dichloropropene	-4.1						30					
Ethyl methacrylate	1.5						30					
1,1,2-Trichloroethane	-0.6						30					
Tetrachloroethene	-3.5						30					
1,3-Dichloropropane	1.8						30					
2-Hexanone	0.2						30					
Dibromochloromethane	-6.9						30					
1,2-Dibromoethane (EDB)	-0.4						30					
1-Chlorohexane	12.5						30					
Chlorobenzene	0.4						30					
1,1,1,2-Tetrachloroethane	-4.1						30					
Ethylbenzene	3.7						30					
m&p-Xylene	-2.3						30					
o-Xylene	1.9						30					
Styrene	-0.7						30					
Bromoform	-15.5						30					
Isopropylbenzene	0.7						30					
1,1,2,2-Tetrachloroethane	-6.1						30					
Bromobenzene	-0.4						30					
trans-1,4-Dichloro-2-butene	-13.4						30					
1,2,3-Trichloropropane	-8.4						30					

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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
N-Propylbenzene	1.2						30					
2-Chlorotoluene	0.5						30					
1,3,5-Trimethylbenzene	-3.6						30					
4-Chlorotoluene	-3.0						30					
tert-Butylbenzene	-0.2						30					
Pentachloroethane	-6.2						30					
1,2,4-Trimethylbenzene	0.3						30					
sec-Butylbenzene	0.8						30					
1,3-Dichlorobenzene	-0.1						30					
p-Isopropyltoluene	-1.6						30					
1,4-Dichlorobenzene	1.4						30					
1,2,3-Trimethylbenzene	7.1						30					
Benzyl chloride	-2.9						30					
n-Butylbenzene	-0.5						30					
1,2-Dichlorobenzene	-1.2						30					
1,2-Dibromo-3-Chloropropane	-5.4						30					
1,3,5-Trichlorobenzene	2.0						30					
1,2,4-Trichlorobenzene	-1.1						30					
Hexachlorobutadiene	3.3						30					
Naphthalene	2.4						30					
1,2,3-Trichlorobenzene	1.7						30					

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 70996

SDG No.:

Instrument ID: 16334 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/30/2020 12:50 Calibration End Date: 11/30/2020 15:03 Calibration ID: 16331

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
Dibromofluoromethane (Surr)	-1.4						30					
1,2-Dichloroethane-d4 (Surr)	-0.9						30					
Toluene-d8 (Surr)	0.8						30					
4-Bromofluorobenzene (Surr)	1.1						30					

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I01.D
Lims ID: IC std7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 30-Nov-2020 12:50:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0016641-003
Misc. Info.: IC STD7
Operator ID: DVV10203 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Dec-2020 18:56:56 Calib Date: 30-Nov-2020 18:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1610

First Level Reviewer: virayd Date: 01-Dec-2020 11:39:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.940	1.953	-0.013	99	1495396	25.0	25.6	
5 Chloromethane	50	2.142	2.148	-0.006	99	1849975	25.0	23.4	
6 Butadiene	39	2.251	2.264	-0.013	96	1847653	25.0	20.6	
7 Vinyl chloride	62	2.257	2.270	-0.013	98	1645533	25.0	24.4	
9 Bromomethane	94	2.574	2.593	-0.019	91	1090646	25.0	23.2	
10 Chloroethane	64	2.654	2.666	-0.012	100	966420	25.0	23.6	
11 Dichlorofluoromethane	67	2.891	2.904	-0.013	97	2101552	25.0	22.9	
13 Trichlorofluoromethane	101	2.965	2.977	-0.012	97	1955497	25.0	25.2	
15 Ethyl ether	59	3.196	3.208	-0.012	94	1114451	25.0	24.3	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.288	3.300	-0.012	93	1496120	25.0	23.6	
18 Acrolein	56	3.373	3.385	-0.012	99	8876973	1250.0	1314.9	
19 1,1-Dichloroethene	96	3.507	3.519	-0.012	97	1129827	25.0	24.1	
21 112TCTFE	101	3.544	3.556	-0.012	92	1213458	25.0	26.5	
20 Acetone	43	3.544	3.562	-0.018	100	2047683	250.0	234.6	
22 Iodomethane	142	3.696	3.714	-0.018	98	2146588	25.0	24.5	
23 Isopropyl alcohol	45	3.721	3.727	-0.007	48	773552	500.0	433.4	
24 Ethyl bromide	108	3.727	3.739	-0.012	98	986182	25.0	24.2	
25 Carbon disulfide	76	3.800	3.812	-0.012	99	4255752	25.0	24.6	
26 Methyl acetate	43	3.952	3.971	-0.018	98	690648	25.0	26.1	M
27 3-Chloro-1-propene	41	3.977	3.989	-0.012	93	2189679	25.0	23.3	
28 Methylene Chloride	84	4.166	4.178	-0.012	94	1311628	25.0	24.4	
* 29 t-Butyl alcohol-d10 (IS)	65	4.196	4.202	-0.006	0	177877	50.0	50.0	
30 2-Methyl-2-propanol	59	4.318	4.336	-0.018	100	1538645	500.0	481.1	
31 Acrylonitrile	53	4.513	4.525	-0.012	98	1463905	125.0	129.7	
32 Methyl tert-butyl ether	73	4.568	4.580	-0.012	96	3592103	25.0	24.1	
33 trans-1,2-Dichloroethene	96	4.568	4.586	-0.018	98	1312619	25.0	24.3	
34 Hexane	57	4.995	5.007	-0.012	94	2081061	25.0	26.4	
36 1,1-Dichloroethane	63	5.239	5.251	-0.013	96	2486421	25.0	24.8	
37 Isopropyl ether	45	5.299	5.306	-0.007	96	4941744	25.0	24.3	
38 2-Chloro-1,3-butadiene	53	5.348	5.360	-0.012	91	2218551	25.0	24.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.836	5.836	0.000	99	4516790	25.0	24.3	
40 2-Butanone (MEK)	43	6.043	6.049	-0.006	100	4135516	250.0	255.7	
41 cis-1,2-Dichloroethene	96	6.074	6.086	-0.012	83	1486697	25.0	24.5	
42 2,2-Dichloropropane	77	6.092	6.092	0.000	88	2061512	25.0	24.5	
44 Propionitrile	54	6.147	6.147	0.000	99	2056391	500.0	512.9	
S 49 1,2-Dichloroethene, Total	100				0			48.9	
46 Methacrylonitrile	67	6.360	6.360	0.000	94	3857032	250.0	259.5	
48 Chlorobromomethane	128	6.409	6.409	0.000	96	651451	25.0	24.1	
47 Tetrahydrofuran	71	6.415	6.409	0.006	93	1074451	250.0	257.0	
50 Chloroform	83	6.561	6.561	0.000	93	2347914	25.0	24.3	
$ 52 Dibromofluoromethane (Surr)	113	6.775	6.781	-0.006	94	543100	10.0	9.97	
51 1,1,1-Trichloroethane	97	6.781	6.787	-0.006	98	2022017	25.0	24.5	
53 Cyclohexane	56	6.872	6.878	-0.006	92	2456493	25.0	25.9	
56 Carbon tetrachloride	117	6.988	7.000	-0.012	95	1796395	25.0	25.1	
55 1,1-Dichloropropene	75	6.994	7.000	-0.006	98	1929345	25.0	24.9	
57 Isobutyl alcohol	41	7.165	7.165	0.000	95	1475056	1250.0	1159.5	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.232	7.232	0.000	0	117092	10.0	10.1	
59 Benzene	78	7.263	7.263	-0.001	97	5622443	25.0	24.6	
60 1,2-Dichloroethane	62	7.330	7.336	-0.006	97	1510198	25.0	23.6	M
62 Tert-amyl methyl ether	73	7.451	7.458	-0.007	98	3974346	25.0	24.3	
* 63 Fluorobenzene (IS)	96	7.665	7.671	-0.006	98	2249974	10.0	10.0	
64 n-Heptane	43	7.671	7.677	-0.006	94	2384149	25.0	26.9	
65 n-Butanol	56	8.043	8.049	-0.006	89	2867258	2500.0	2494.7	
67 Trichloroethene	95	8.140	8.147	-0.007	99	1428934	25.0	24.5	
68 Methylcyclohexane	83	8.445	8.451	-0.006	94	2337109	25.0	25.8	
69 1,2-Dichloropropane	63	8.476	8.482	-0.006	86	1481659	25.0	24.2	
70 2-ethoxy-2-methyl butane	87	8.488	8.488	0.000	91	2213829	25.0	24.7	
72 1,4-Dioxane	88	8.567	8.567	0.000	33	280447	1250.0	1371.5	
71 Methyl methacrylate	69	8.567	8.567	0.000	92	793834	25.0	26.2	
73 Dibromomethane	93	8.585	8.585	0.000	96	696745	25.0	24.6	
75 Dichlorobromomethane	83	8.823	8.823	0.000	100	1793553	25.0	25.3	
76 2-Nitropropane	41	9.110	9.110	0.000	97	2280829	250.0	265.7	
79 1-Bromo-2-chloroethane	63	9.213	9.219	-0.006	98	1613118	25.0	24.6	
80 cis-1,3-Dichloropropene	75	9.378	9.378	0.000	95	2324073	25.0	25.2	
81 4-Methyl-2-pentanone (MIBK)	43	9.555	9.561	-0.006	97	10637772	250.0	256.2	
$ 82 Toluene-d8 (Surr)	98	9.689	9.689	0.000	94	2188553	10.0	9.89	
83 Toluene	92	9.762	9.762	0.000	98	3492002	25.0	24.3	
84 trans-1,3-Dichloropropene	75	10.024	10.024	0.000	93	1963134	25.0	25.3	
S 87 1,3-Dichloropropene, Total	100				0			50.5	
85 Ethyl methacrylate	69	10.085	10.085	0.000	91	1698291	25.0	24.4	
86 1,1,2-Trichloroethane	97	10.225	10.231	-0.006	90	1011153	25.0	24.1	
88 Tetrachloroethene	166	10.311	10.311	0.000	98	1545623	25.0	24.8	
89 1,3-Dichloropropane	76	10.390	10.396	-0.006	92	1831199	25.0	24.2	
91 2-Hexanone	43	10.445	10.451	-0.006	98	7771959	250.0	260.2	
93 Chlorodibromomethane	129	10.603	10.603	0.000	90	1288980	25.0	25.9	
94 Ethylene Dibromide	107	10.713	10.713	0.000	99	1013188	25.0	24.6	
* 95 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	86	1658425	10.0	10.0	
96 1-Chlorohexane	91	11.158	11.158	0.000	98	2021466	25.0	23.4	
97 Chlorobenzene	112	11.170	11.176	-0.006	95	3902651	25.0	24.4	
S 101 Xylenes, Total	106				0			73.8	
98 1,1,1,2-Tetrachloroethane	131	11.256	11.256	0.000	96	1430192	25.0	25.1	
99 Ethylbenzene	91	11.262	11.262	0.000	99	6849934	25.0	24.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 m-Xylene & p-Xylene	106	11.378	11.378	0.000	98	5259805	50.0	49.1	
102 o-Xylene	106	11.707	11.707	0.000	97	2612526	25.0	24.6	
103 Styrene	104	11.719	11.719	0.000	95	4437047	25.0	24.5	
104 Bromoform	173	11.877	11.877	0.000	97	799958	25.0	27.6	
105 Isopropylbenzene	105	12.005	12.006	-0.001	96	6784295	25.0	24.4	
$ 108 4-Bromofluorobenzene (Surr)	95	12.146	12.152	-0.006	89	833577	10.0	9.87	
109 1,1,2,2-Tetrachloroethane	83	12.255	12.255	0.000	92	1384788	25.0	24.6	
110 Bromobenzene	156	12.268	12.268	0.000	95	1663078	25.0	24.6	
111 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	91	3738276	250.0	290.0	
112 1,2,3-Trichloropropane	110	12.298	12.304	-0.006	79	345318	25.0	24.0	
113 N-Propylbenzene	91	12.335	12.335	0.000	99	8111815	25.0	24.0	
114 2-Chlorotoluene	126	12.414	12.414	0.000	97	1636772	25.0	24.7	
115 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	94	5889002	25.0	24.7	
116 4-Chlorotoluene	126	12.505	12.505	0.000	97	1693778	25.0	24.5	
118 tert-Butylbenzene	134	12.713	12.713	0.000	93	1265966	25.0	24.9	
120 Pentachloroethane	167	12.743	12.743	0.000	95	1117481	25.0	25.6	
119 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	6115025	25.0	24.6	
121 sec-Butylbenzene	105	12.877	12.877	0.000	94	7647756	25.0	24.7	
122 1,3-Dichlorobenzene	146	12.975	12.975	0.000	98	3371982	25.0	24.7	
123 4-Isopropyltoluene	119	12.981	12.981	0.000	97	6669275	25.0	24.8	
* 124 1,4-Dichlorobenzene-d4	152	13.030	13.030	0.000	93	896780	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.048	13.048	0.000	94	3385890	25.0	24.4	
126 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	99	2646951	25.0	24.0	
127 Benzyl chloride	126	13.127	13.127	0.000	99	617345	25.0	25.3	
129 p-Diethylbenzene	119	13.182	13.182	0.000	92	4022632	25.0	24.6	
130 n-Butylbenzene	92	13.274	13.274	0.000	98	3504248	25.0	24.6	
131 1,2-Dichlorobenzene	146	13.310	13.310	0.000	98	3100816	25.0	24.4	
134 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	94	208192	25.0	25.3	
135 1,3,5-Trichlorobenzene	180	13.975	13.975	0.000	98	2822323	25.0	24.7	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	2570710	25.0	24.4	
137 Hexachlorobutadiene	225	14.481	14.481	0.000	96	1284715	25.0	24.8	
138 Naphthalene	128	14.578	14.578	0.000	97	4554237	25.0	23.7	
139 1,2,3-Trichlorobenzene	180	14.718	14.718	0.000	96	2227961	25.0	23.9	
140 2-Methylnaphthalene	142	15.340	15.340	0.000	92	3104331	25.0	22.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00031	Amount Added: 25.00	Units: uL	
MSV_RV4GAS826_00097	Amount Added: 25.00	Units: uL	
MSV_RV4_826_00035	Amount Added: 25.00	Units: uL	
MSV_29_826ISS_00013	Amount Added: 1.00	Units: uL	Run Reagent

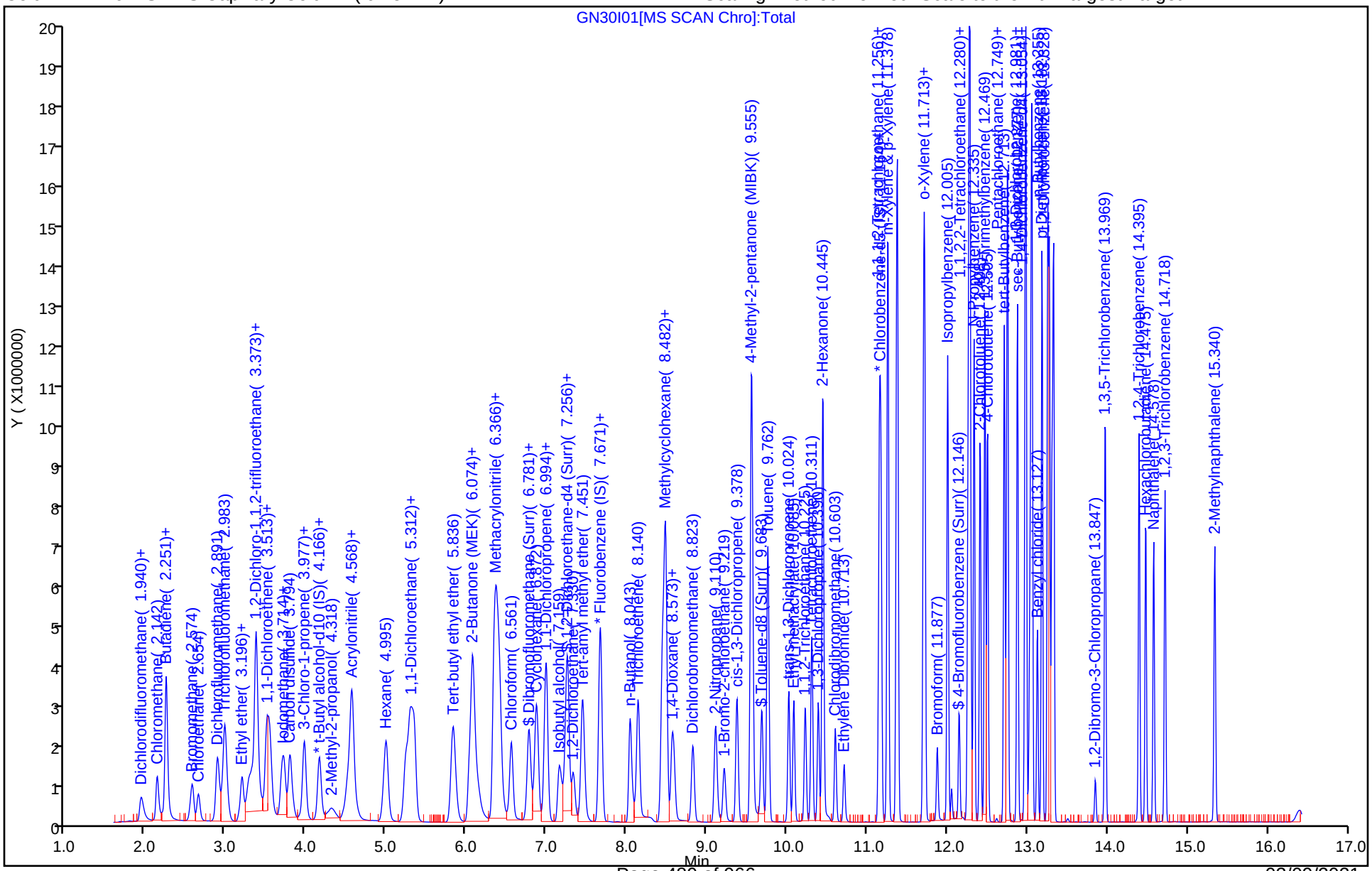
Report Date: 01-Dec-2020 18:56:58 Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I01.D

Injection Date:	30-Nov-2020 12:50:30	Instrument ID:	16334	Operator ID:	DVV10203
Lims ID:	IC std7			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: 2



Eurofins Lancaster Laboratories Env, LLC

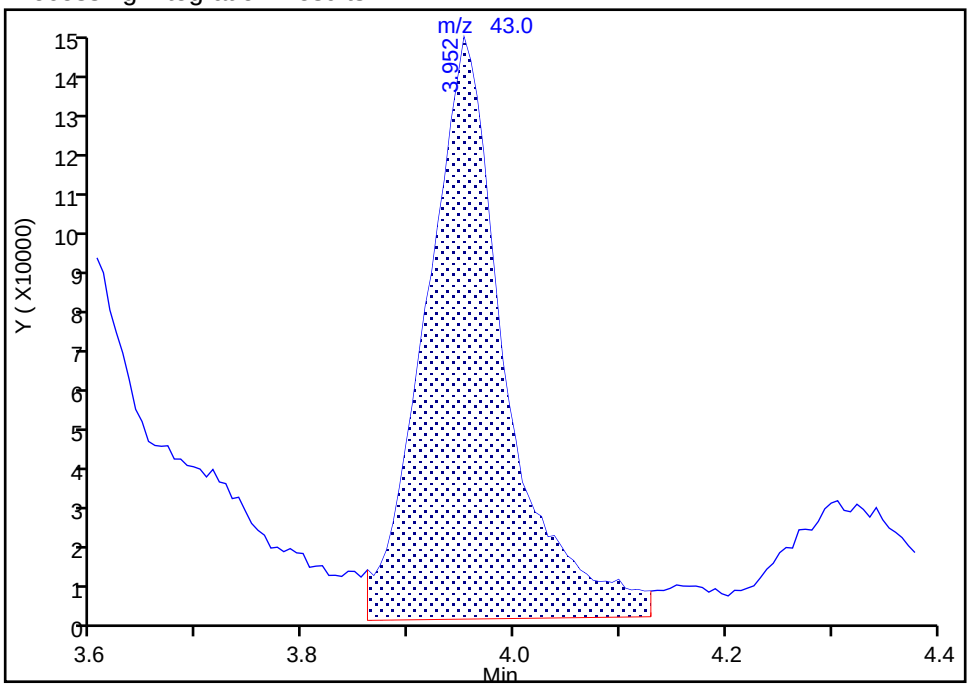
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I01.D				
Injection Date:	30-Nov-2020 12:50:30	Instrument ID:	16334		
Lims ID:	IC std7				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

26 Methyl acetate, CAS: 79-20-9

Signal: 1

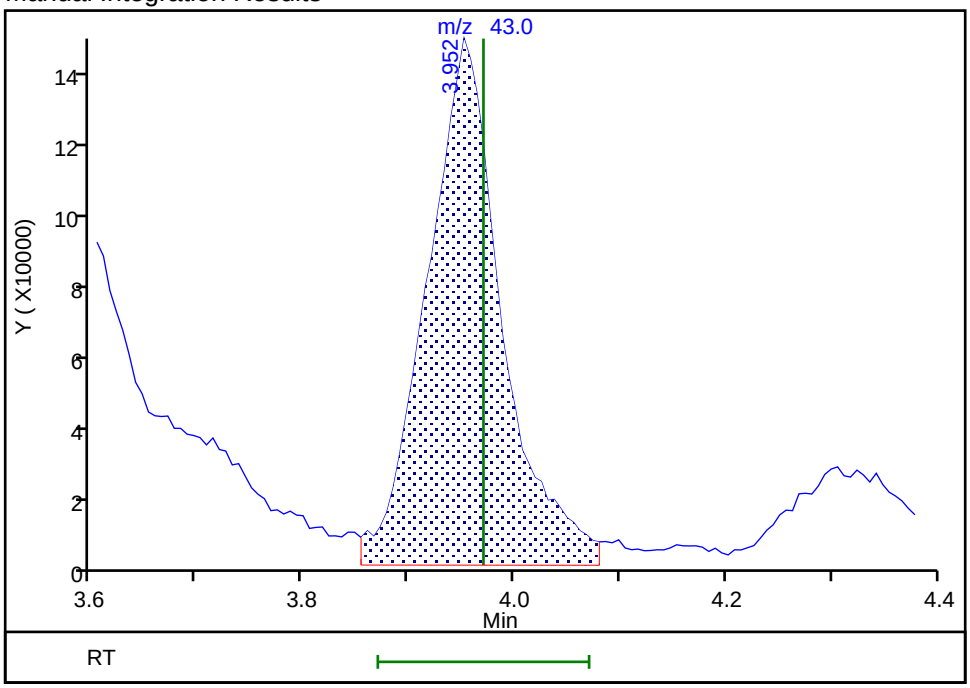
RT: 3.95
Area: 749074
Amount: 27.913187
Amount Units: ug/l

Processing Integration Results



RT: 3.95
Area: 690648
Amount: 26.140420
Amount Units: ug/l

Manual Integration Results



Reviewer: virayd, 01-Dec-2020 11:38:22
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

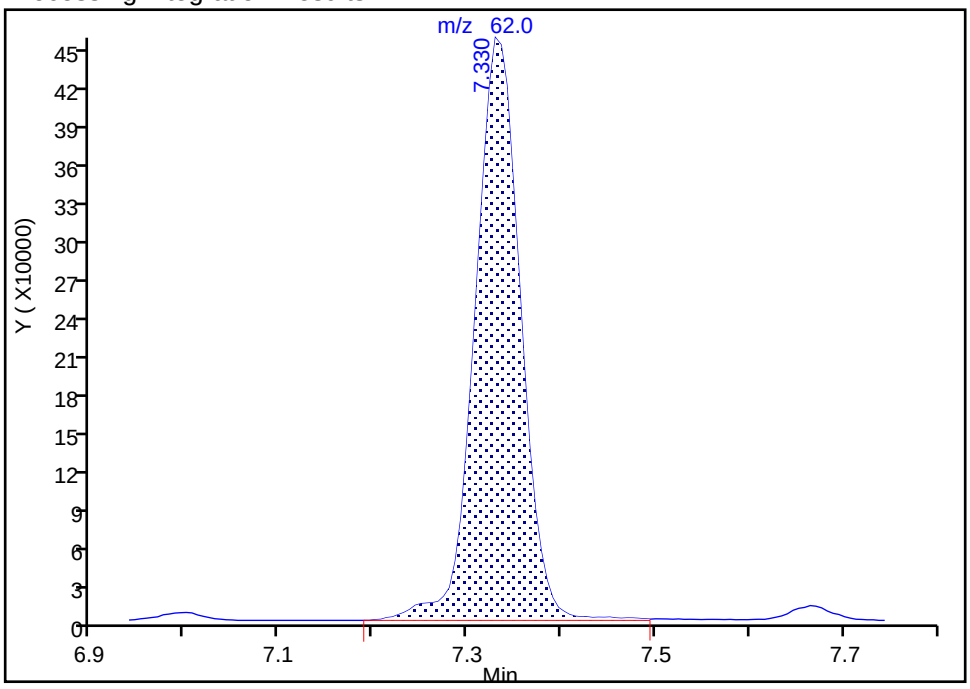
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I01.D
Injection Date: 30-Nov-2020 12:50:30 Instrument ID: 16334
Lims ID: IC std7
Client ID:
Operator ID: DVV10203 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

60 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

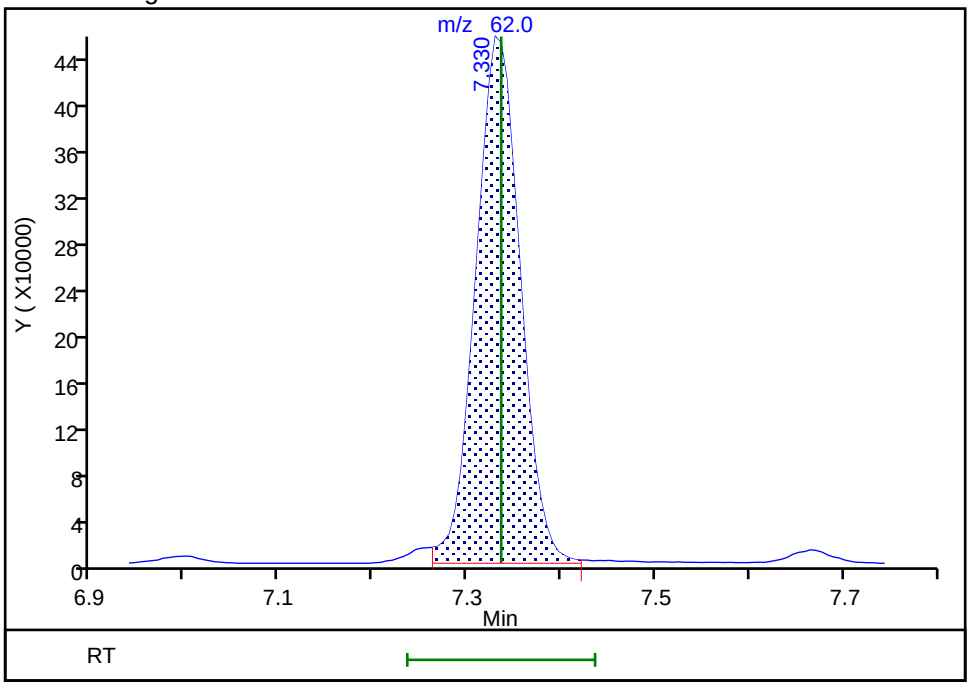
Processing Integration Results

RT: 7.33
Area: 1541889
Amount: 23.957758
Amount Units: ug/l



Manual Integration Results

RT: 7.33
Area: 1510198
Amount: 23.611228
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:38:44
Audit Action: Manually Integrated Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I02.D
Lims ID: ICIS std6
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 30-Nov-2020 13:12:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0016641-004
Misc. Info.: ICIS STD6
Operator ID: DVV10203 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Dec-2020 18:57:10 Calib Date: 30-Nov-2020 18:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1610

First Level Reviewer: virayd Date: 01-Dec-2020 11:46:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.952	1.952	0.000	99	575013	10.0	9.85	
5 Chloromethane	50	2.148	2.148	0.000	99	746607	10.0	9.47	
6 Butadiene	39	2.257	2.257	0.000	95	762788	10.0	8.50	
7 Vinyl chloride	62	2.257	2.257	0.000	98	653889	10.0	9.72	
9 Bromomethane	94	2.580	2.580	0.000	90	437020	10.0	9.32	
10 Chloroethane	64	2.660	2.660	0.000	100	391559	10.0	9.59	
11 Dichlorofluoromethane	67	2.897	2.897	0.000	97	849408	10.0	9.28	
13 Trichlorofluoromethane	101	2.971	2.971	0.000	97	758912	10.0	9.80	
15 Ethyl ether	59	3.208	3.208	0.000	93	442210	10.0	9.67	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.294	3.294	0.000	94	587407	10.0	9.28	
18 Acrolein	56	3.379	3.379	0.000	99	3539158	500.0	501.1	
19 1,1-Dichloroethene	96	3.513	3.513	0.000	97	447046	10.0	9.55	
21 112TCTFE	101	3.550	3.550	0.000	93	464025	10.0	10.1	
20 Acetone	43	3.550	3.550	0.000	100	823027	100.0	90.1	
22 Iodomethane	142	3.702	3.702	0.000	98	856231	10.0	9.80	
23 Isopropyl alcohol	45	3.727	3.727	0.000	47	310668	200.0	174.3	
24 Ethyl bromide	108	3.733	3.733	0.000	98	392528	10.0	9.63	
25 Carbon disulfide	76	3.806	3.806	0.000	99	1696280	10.0	9.83	
26 Methyl acetate	43	3.964	3.964	0.000	99	244232	10.0	8.84	
27 3-Chloro-1-propene	41	3.989	3.989	0.000	93	870096	10.0	9.29	
28 Methylene Chloride	84	4.172	4.172	0.000	94	521426	10.0	9.72	
* 29 t-Butyl alcohol-d10 (IS)	65	4.208	4.208	0.000	0	186094	50.0	50.0	
30 2-Methyl-2-propanol	59	4.318	4.318	0.000	100	646096	200.0	193.1	
31 Acrylonitrile	53	4.519	4.519	0.000	98	582252	50.0	49.3	
32 Methyl tert-butyl ether	73	4.574	4.574	0.000	96	1431718	10.0	9.63	
33 trans-1,2-Dichloroethene	96	4.580	4.580	0.000	97	522420	10.0	9.70	
34 Hexane	57	5.007	5.007	0.000	94	770889	10.0	9.81	
36 1,1-Dichloroethane	63	5.245	5.245	0.000	96	989205	10.0	9.89	
37 Isopropyl ether	45	5.299	5.299	0.000	96	1979657	10.0	9.73	
38 2-Chloro-1,3-butadiene	53	5.354	5.354	0.000	91	880335	10.0	9.68	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.836	5.836	0.000	99	1808949	10.0	9.75	
40 2-Butanone (MEK)	43	6.043	6.043	0.000	100	1655912	100.0	97.9	
41 cis-1,2-Dichloroethene	96	6.080	6.080	0.000	83	593244	10.0	9.81	
42 2,2-Dichloropropane	77	6.092	6.092	0.000	87	809643	10.0	9.65	
44 Propionitrile	54	6.147	6.147	0.000	99	833953	200.0	198.8	
46 Methacrylonitrile	67	6.354	6.354	0.000	94	1544674	100.0	99.3	
48 Chlorobromomethane	128	6.409	6.409	0.000	96	257416	10.0	9.55	
47 Tetrahydrofuran	71	6.421	6.421	0.000	82	433079	100.0	99.0	
50 Chloroform	83	6.561	6.561	0.000	93	935084	10.0	9.71	
$ 52 Dibromofluoromethane (Surr)	113	6.781	6.781	0.000	94	541882	10.0	9.97	
51 1,1,1-Trichloroethane	97	6.787	6.787	0.000	98	795686	10.0	9.65	
53 Cyclohexane	56	6.878	6.878	0.000	92	934696	10.0	9.86	
56 Carbon tetrachloride	117	6.988	6.988	0.000	96	699045	10.0	9.78	
55 1,1-Dichloropropene	75	7.000	7.000	0.000	95	750119	10.0	9.68	
57 Isobutyl alcohol	41	7.159	7.159	0.000	95	587299	500.0	462.4	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.238	7.238	0.000	0	116084	10.0	10.0	
59 Benzene	78	7.262	7.262	0.000	98	2218035	10.0	9.71	
60 1,2-Dichloroethane	62	7.336	7.336	0.000	97	588167	10.0	9.21	
62 Tert-amyl methyl ether	73	7.451	7.451	0.000	98	1588018	10.0	9.71	
* 63 Fluorobenzene (IS)	96	7.671	7.671	0.000	98	2246480	10.0	10.0	
64 n-Heptane	43	7.677	7.677	0.000	93	879279	10.0	9.92	
65 n-Butanol	56	8.043	8.043	0.000	90	1169293	1000.0	972.4	
67 Trichloroethene	95	8.146	8.146	0.000	99	566426	10.0	9.71	
68 Methylcyclohexane	83	8.451	8.451	0.000	94	888517	10.0	9.81	
69 1,2-Dichloropropane	63	8.482	8.482	0.000	98	594461	10.0	9.73	
70 2-ethoxy-2-methyl butane	87	8.488	8.488	0.000	91	881887	10.0	9.87	
72 1,4-Dioxane	88	8.561	8.561	0.000	33	116348	500.0	543.9	M
71 Methyl methacrylate	69	8.567	8.567	0.000	92	314713	10.0	9.94	
73 Dibromomethane	93	8.591	8.591	0.000	96	275323	10.0	9.72	
75 Dichlorobromomethane	83	8.829	8.829	0.000	100	706255	10.0	9.97	
76 2-Nitropropane	41	9.110	9.110	0.000	98	899063	100.0	100.1	
79 1-Bromo-2-chloroethane	63	9.219	9.219	0.000	99	632658	10.0	9.66	
80 cis-1,3-Dichloropropene	75	9.378	9.378	0.000	95	901197	10.0	9.80	
81 4-Methyl-2-pentanone (MIBK)	43	9.561	9.561	0.000	97	4346527	100.0	100.0	
$ 82 Toluene-d8 (Surr)	98	9.689	9.689	0.000	94	2179039	10.0	9.98	
83 Toluene	92	9.762	9.762	0.000	97	1376073	10.0	9.70	
84 trans-1,3-Dichloropropene	75	10.024	10.024	0.000	94	765518	10.0	10.0	
85 Ethyl methacrylate	69	10.085	10.085	0.000	91	683673	10.0	9.94	
86 1,1,2-Trichloroethane	97	10.231	10.231	0.000	90	398053	10.0	9.62	
88 Tetrachloroethene	166	10.311	10.311	0.000	98	602059	10.0	9.79	
89 1,3-Dichloropropane	76	10.390	10.390	0.000	92	720295	10.0	9.65	
91 2-Hexanone	43	10.451	10.451	0.000	98	3134600	100.0	100.3	
93 Chlorodibromomethane	129	10.603	10.603	0.000	90	497877	10.0	10.1	
94 Ethylene Dibromide	107	10.713	10.713	0.000	98	396354	10.0	9.76	
* 95 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	87	1636269	10.0	10.0	
96 1-Chlorohexane	91	11.158	11.158	0.000	98	791218	10.0	9.29	
97 Chlorobenzene	112	11.176	11.176	0.000	94	1541301	10.0	9.76	
98 1,1,1,2-Tetrachloroethane	131	11.256	11.256	0.000	95	561469	10.0	10.0	
99 Ethylbenzene	91	11.262	11.262	0.000	99	2703437	10.0	9.65	
100 m-Xylene & p-Xylene	106	11.377	11.377	0.000	97	2069783	20.0	19.6	
102 o-Xylene	106	11.707	11.707	0.000	97	1022577	10.0	9.76	
103 Styrene	104	11.719	11.719	0.000	95	1745400	10.0	9.78	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 Bromoform	173	11.877	11.877	0.000	97	304248	10.0	10.6	
105 Isopropylbenzene	105	12.005	12.005	0.000	96	2679183	10.0	9.78	
$ 108 4-Bromofluorobenzene (Surr)	95	12.146	12.146	0.000	89	829357	10.0	9.95	
109 1,1,2,2-Tetrachloroethane	83	12.255	12.255	0.000	92	553642	10.0	9.91	
110 Bromobenzene	156	12.268	12.268	0.000	95	654760	10.0	9.77	
111 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	92	1457770	100.0	108.1	
112 1,2,3-Trichloropropane	110	12.298	12.298	0.000	80	138980	10.0	9.76	
113 N-Propylbenzene	91	12.335	12.335	0.000	99	3236978	10.0	9.68	
114 2-Chlorotoluene	126	12.414	12.414	0.000	96	635163	10.0	9.66	
115 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	94	2319655	10.0	9.84	
116 4-Chlorotoluene	126	12.505	12.505	0.000	98	665842	10.0	9.71	
118 tert-Butylbenzene	134	12.713	12.713	0.000	93	490248	10.0	9.74	
120 Pentachloroethane	167	12.743	12.743	0.000	92	427979	10.0	9.89	
119 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	2411281	10.0	9.79	
121 sec-Butylbenzene	105	12.877	12.877	0.000	94	2999448	10.0	9.78	
122 1,3-Dichlorobenzene	146	12.975	12.975	0.000	98	1310582	10.0	9.69	
123 4-Isopropyltoluene	119	12.981	12.981	0.000	97	2609529	10.0	9.79	
* 124 1,4-Dichlorobenzene-d4	152	13.030	13.030	0.000	94	888382	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.048	13.048	0.000	94	1327411	10.0	9.64	
126 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	98	1037654	10.0	9.50	
127 Benzyl chloride	126	13.127	13.127	0.000	99	241370	10.0	10.0	
129 p-Diethylbenzene	119	13.182	13.182	0.000	92	1562547	10.0	9.65	
130 n-Butylbenzene	92	13.273	13.273	0.000	98	1374780	10.0	9.74	
131 1,2-Dichlorobenzene	146	13.310	13.310	0.000	98	1221855	10.0	9.69	
134 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	87	81816	10.0	10.1	
135 1,3,5-Trichlorobenzene	180	13.975	13.975	0.000	98	1106187	10.0	9.76	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	1016153	10.0	9.73	
137 Hexachlorobutadiene	225	14.481	14.481	0.000	96	494492	10.0	9.65	
138 Naphthalene	128	14.578	14.578	0.000	97	1828996	10.0	9.63	
139 1,2,3-Trichlorobenzene	180	14.718	14.718	0.000	96	888658	10.0	9.64	
140 2-Methylnaphthalene	142	15.340	15.340	0.000	92	1290648	10.0	9.50	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00031	Amount Added: 10.00	Units: uL	
MSV_RV4GAS826_00097	Amount Added: 10.00	Units: uL	
MSV_RV4_826_00035	Amount Added: 10.00	Units: uL	
MSV_29_826ISS_00013	Amount Added: 1.00	Units: uL	Run Reagent

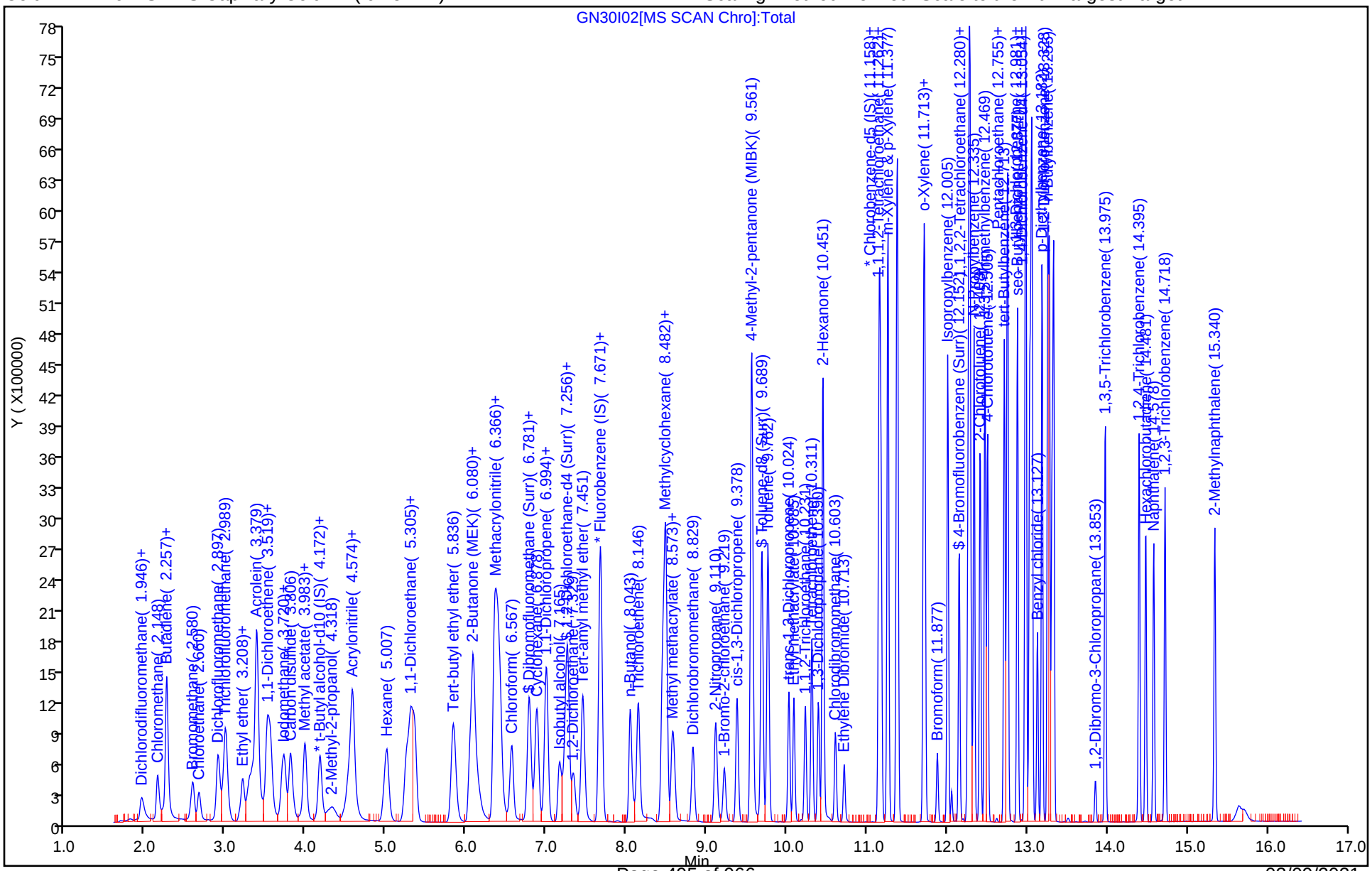
Report Date: 01-Dec-2020 18:57:11 Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I02.D

Injection Date:	30-Nov-2020 13:12:30	Instrument ID:	16334	Operator ID:	DVV10203
Lims ID:	ICIS std6			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: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

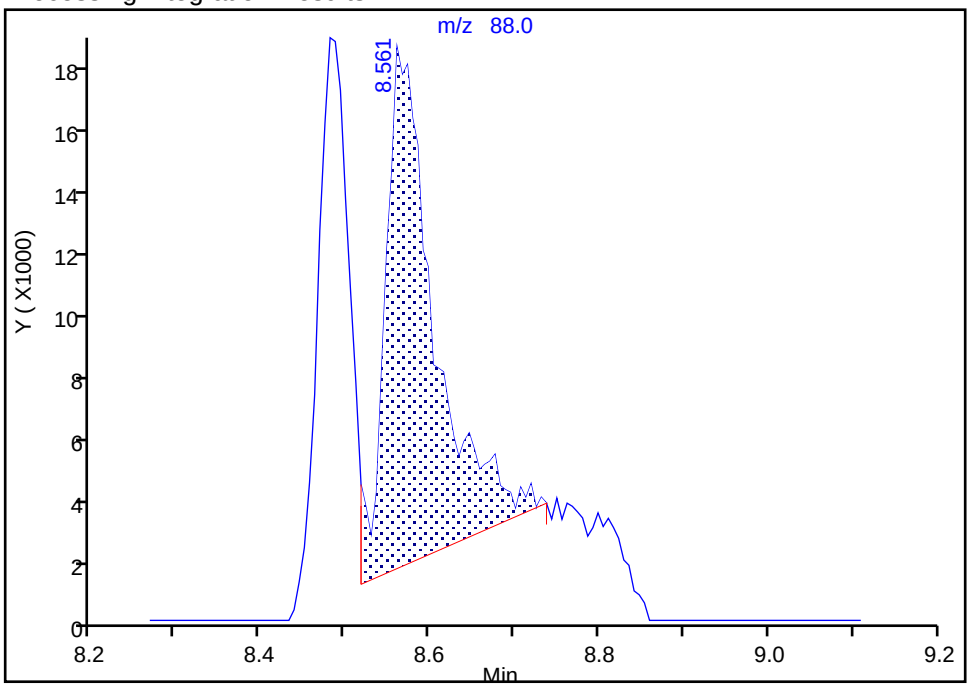
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I02.D
Injection Date: 30-Nov-2020 13:12:30 Instrument ID: 16334
Lims ID: ICIS std6
Client ID:
Operator ID: DVV10203 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

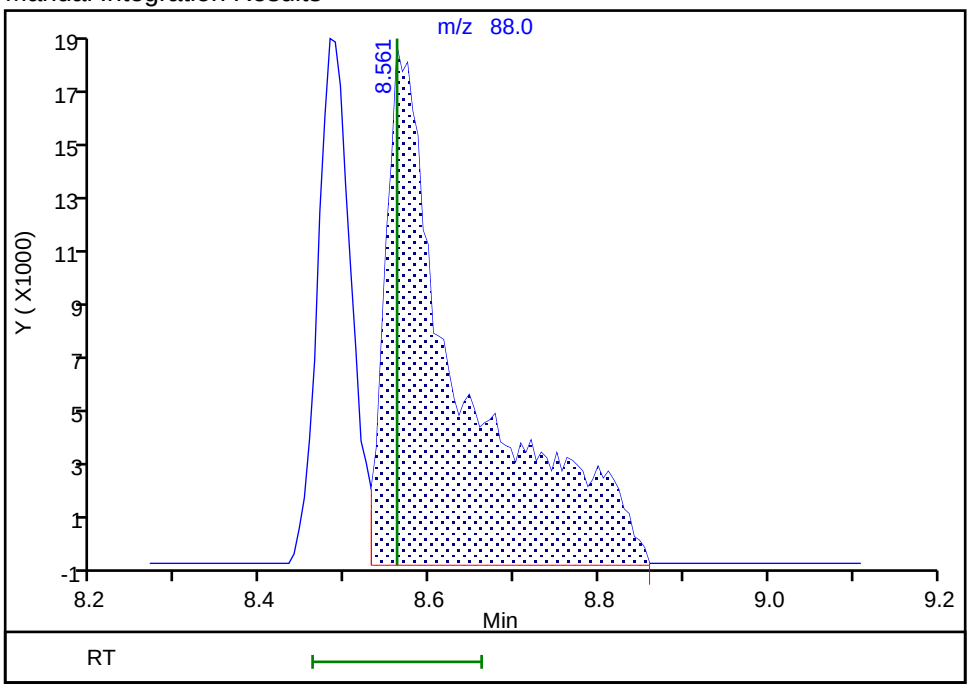
Processing Integration Results

RT: 8.56
Area: 66720
Amount: 408.4380
Amount Units: ug/l



Manual Integration Results

RT: 8.56
Area: 116348
Amount: 543.8519
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:45:41
Audit Action: Manually Integrated Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I03.D
Lims ID: IC std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 30-Nov-2020 13:34:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0016641-005
Misc. Info.: IC STD5
Operator ID: DVV10203 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Dec-2020 18:57:21 Calib Date: 30-Nov-2020 18:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1610

First Level Reviewer: virayd Date: 01-Dec-2020 11:48:14

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Dichlorodifluoromethane	85	1.941	1.952	-0.011	99	285502	5.00	4.93	
5	Chloromethane	50	2.136	2.148	-0.012	99	368365	5.00	4.72	
6	Butadiene	39	2.245	2.257	-0.012	96	400995	5.00	4.51	
7	Vinyl chloride	62	2.251	2.257	-0.006	97	322069	5.00	4.83	
9	Bromomethane	94	2.575	2.580	-0.005	90	221448	5.00	4.77	
10	Chloroethane	64	2.654	2.660	-0.006	100	196409	5.00	4.86	
11	Dichlorofluoromethane	67	2.892	2.897	-0.005	97	427842	5.00	4.72	
13	Trichlorofluoromethane	101	2.965	2.971	-0.006	97	385200	5.00	5.02	
15	Ethyl ether	59	3.202	3.208	-0.006	95	218165	5.00	4.82	
16	1,2-Dichloro-1,1,2-trifluoroetha	67	3.294	3.294	0.000	94	302034	5.00	4.82	
18	Acrolein	56	3.373	3.379	-0.006	99	1726399	250.0	248.1	
19	1,1-Dichloroethene	96	3.507	3.513	-0.006	98	226327	5.00	4.88	
21	112TCTFE	101	3.544	3.550	-0.006	92	243555	5.00	5.37	
20	Acetone	43	3.544	3.550	-0.006	100	406309	50.0	45.2	
22	Iodomethane	142	3.696	3.702	-0.006	98	426388	5.00	4.92	
23	Isopropyl alcohol	45	3.715	3.727	-0.012	96	158997	100.0	90.1	
24	Ethyl bromide	108	3.727	3.733	-0.006	98	200380	5.00	4.96	
25	Carbon disulfide	76	3.794	3.806	-0.012	99	845631	5.00	4.95	
26	Methyl acetate	43	3.958	3.964	-0.006	98	130819	5.00	4.80	
27	3-Chloro-1-propene	41	3.977	3.989	-0.012	93	443750	5.00	4.78	
28	Methylene Chloride	84	4.166	4.172	-0.006	94	260868	5.00	4.91	
* 29	t-Butyl alcohol-d10 (IS)	65	4.178	4.208	-0.030	0	183343	50.0	50.0	
30	2-Methyl-2-propanol	59	4.306	4.318	-0.012	100	325105	100.0	98.6	M
31	Acrylonitrile	53	4.513	4.519	-0.006	98	296709	25.0	25.5	
32	Methyl tert-butyl ether	73	4.562	4.574	-0.012	95	716859	5.00	4.87	
33	trans-1,2-Dichloroethene	96	4.568	4.580	-0.012	97	258856	5.00	4.85	
34	Hexane	57	5.001	5.007	-0.006	94	411619	5.00	5.29	
36	1,1-Dichloroethane	63	5.239	5.245	-0.006	96	485770	5.00	4.90	
37	Isopropyl ether	45	5.294	5.299	-0.005	96	980101	5.00	4.86	
38	2-Chloro-1,3-butadiene	53	5.342	5.354	-0.012	91	441551	5.00	4.90	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.830	5.836	-0.006	99	903460	5.00	4.92	
40 2-Butanone (MEK)	43	6.037	6.043	-0.006	100	828352	50.0	49.7	
41 cis-1,2-Dichloroethene	96	6.080	6.080	0.000	83	293028	5.00	4.89	
42 2,2-Dichloropropane	77	6.086	6.092	-0.006	88	407651	5.00	4.91	
44 Propionitrile	54	6.147	6.147	0.000	99	406595	100.0	98.4	
S 49 1,2-Dichloroethene, Total	100				0			9.74	
46 Methacrylonitrile	67	6.348	6.354	-0.006	94	766425	50.0	50.0	
48 Chlorobromomethane	128	6.403	6.409	-0.006	69	130627	5.00	4.89	
47 Tetrahydrofuran	71	6.403	6.421	-0.018	82	215770	50.0	50.1	
50 Chloroform	83	6.556	6.561	-0.005	93	467191	5.00	4.89	
$ 52 Dibromofluoromethane (Surr)	113	6.775	6.781	-0.006	94	540338	10.0	10.0	
51 1,1,1-Trichloroethane	97	6.781	6.787	-0.006	98	396057	5.00	4.85	
53 Cyclohexane	56	6.879	6.878	0.001	92	485144	5.00	5.17	
56 Carbon tetrachloride	117	6.988	6.988	0.000	97	346656	5.00	4.89	
55 1,1-Dichloropropene	75	6.994	7.000	-0.006	97	375317	5.00	4.89	
57 Isobutyl alcohol	41	7.153	7.159	-0.006	95	292232	250.0	232.2	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.226	7.238	-0.012	0	113626	10.0	9.91	
59 Benzene	78	7.263	7.262	0.001	97	1100869	5.00	4.87	
60 1,2-Dichloroethane	62	7.330	7.336	-0.006	97	295549	5.00	4.67	M
62 Tert-amyl methyl ether	73	7.446	7.451	-0.005	98	788786	5.00	4.87	
* 63 Fluorobenzene (IS)	96	7.665	7.671	-0.006	98	2225560	10.0	10.0	
64 n-Heptane	43	7.671	7.677	-0.006	94	463712	5.00	5.28	
65 n-Butanol	56	8.043	8.043	0.000	89	586370	500.0	495.0	
67 Trichloroethene	95	8.141	8.146	-0.005	99	278479	5.00	4.82	
68 Methylcyclohexane	83	8.445	8.451	-0.006	94	457689	5.00	5.10	
69 1,2-Dichloropropane	63	8.476	8.482	-0.006	97	292517	5.00	4.83	
70 2-ethoxy-2-methyl butane	87	8.482	8.488	-0.006	91	435122	5.00	4.92	
72 1,4-Dioxane	88	8.573	8.561	0.012	33	57308	250.0	271.9	M
71 Methyl methacrylate	69	8.567	8.567	0.000	92	157779	5.00	5.06	
73 Dibromomethane	93	8.586	8.591	-0.005	96	135590	5.00	4.83	
75 Dichlorobromomethane	83	8.823	8.829	-0.006	100	343988	5.00	4.90	
76 2-Nitropropane	41	9.110	9.110	0.000	97	446843	50.0	50.5	
79 1-Bromo-2-chloroethane	63	9.214	9.219	-0.005	98	323185	5.00	4.98	
80 cis-1,3-Dichloropropene	75	9.372	9.378	-0.006	95	449091	5.00	4.93	
81 4-Methyl-2-pentanone (MIBK)	43	9.555	9.561	-0.006	97	2154238	50.0	50.3	
$ 82 Toluene-d8 (Surr)	98	9.683	9.689	-0.006	94	2162628	10.0	10.1	
83 Toluene	92	9.762	9.762	0.000	98	683495	5.00	4.89	
84 trans-1,3-Dichloropropene	75	10.024	10.024	0.000	94	378649	5.00	5.02	
S 87 1,3-Dichloropropene, Total	100				0			9.95	
85 Ethyl methacrylate	69	10.085	10.085	0.000	91	332561	5.00	4.91	
86 1,1,2-Trichloroethane	97	10.232	10.231	0.001	90	197601	5.00	4.85	
88 Tetrachloroethene	166	10.311	10.311	0.000	97	298979	5.00	4.93	
89 1,3-Dichloropropane	76	10.390	10.390	0.000	92	358460	5.00	4.88	
91 2-Hexanone	43	10.445	10.451	-0.006	98	1570233	50.0	51.0	
93 Chlorodibromomethane	129	10.603	10.603	0.000	91	243007	5.00	5.03	
94 Ethylene Dibromide	107	10.713	10.713	0.000	98	196846	5.00	4.92	
* 95 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	86	1611346	10.0	10.0	
96 1-Chlorohexane	91	11.158	11.158	0.000	98	396805	5.00	4.73	
97 Chlorobenzene	112	11.170	11.176	-0.006	94	760248	5.00	4.89	
S 101 Xylenes, Total	106				0			14.8	
98 1,1,1,2-Tetrachloroethane	131	11.256	11.256	0.000	96	275804	5.00	4.99	
99 Ethylbenzene	91	11.262	11.262	0.000	99	1345750	5.00	4.88	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 m-Xylene & p-Xylene	106	11.372	11.377	-0.005	97	1025168	10.0	9.86	
102 o-Xylene	106	11.707	11.707	0.000	97	504969	5.00	4.90	
103 Styrene	104	11.719	11.719	0.000	94	861952	5.00	4.90	
104 Bromoform	173	11.878	11.877	0.001	97	146803	5.00	5.20	
105 Isopropylbenzene	105	12.006	12.005	0.001	96	1331001	5.00	4.93	
$ 108 4-Bromofluorobenzene (Surr)	95	12.146	12.146	0.000	89	820021	10.0	10.0	
109 1,1,2,2-Tetrachloroethane	83	12.256	12.255	0.001	91	273837	5.00	4.96	
110 Bromobenzene	156	12.268	12.268	0.000	95	320859	5.00	4.84	
111 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	91	701899	50.0	52.8	
112 1,2,3-Trichloropropane	110	12.298	12.298	0.000	79	67388	5.00	4.79	
113 N-Propylbenzene	91	12.335	12.335	0.000	99	1623321	5.00	4.91	
114 2-Chlorotoluene	126	12.408	12.414	-0.006	96	316960	5.00	4.87	
115 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	94	1154535	5.00	4.95	
116 4-Chlorotoluene	126	12.506	12.505	0.001	98	329404	5.00	4.86	
118 tert-Butylbenzene	134	12.713	12.713	0.000	93	244744	5.00	4.91	
120 Pentachloroethane	167	12.743	12.743	0.000	90	213871	5.00	4.99	
119 1,2,4-Trimethylbenzene	105	12.756	12.755	0.001	97	1190575	5.00	4.89	
121 sec-Butylbenzene	105	12.877	12.877	0.000	94	1489422	5.00	4.91	
122 1,3-Dichlorobenzene	146	12.975	12.975	0.000	98	650429	5.00	4.86	
123 4-Isopropyltoluene	119	12.981	12.981	0.000	97	1294886	5.00	4.91	
* 124 1,4-Dichlorobenzene-d4	152	13.030	13.030	0.000	95	878834	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.048	13.048	0.000	94	664687	5.00	4.88	
126 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	99	518339	5.00	4.80	
127 Benzyl chloride	126	13.127	13.127	0.000	98	119235	5.00	4.99	
129 p-Diethylbenzene	119	13.182	13.182	0.000	92	785877	5.00	4.91	
130 n-Butylbenzene	92	13.274	13.273	0.001	96	677396	5.00	4.85	
131 1,2-Dichlorobenzene	146	13.310	13.310	0.000	98	604314	5.00	4.84	
134 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	85	38959	5.00	4.84	
135 1,3,5-Trichlorobenzene	180	13.975	13.975	0.000	98	546533	5.00	4.88	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	499550	5.00	4.84	
137 Hexachlorobutadiene	225	14.481	14.481	0.000	97	245031	5.00	4.83	
138 Naphthalene	128	14.578	14.578	0.000	97	907383	5.00	4.83	
139 1,2,3-Trichlorobenzene	180	14.719	14.718	0.001	95	436916	5.00	4.79	
140 2-Methylnaphthalene	142	15.340	15.340	0.000	92	648031	5.00	4.82	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00031	Amount Added:	5.00	Units: uL	
MSV_RV4GAS826_00097	Amount Added:	5.00	Units: uL	
MSV_RV4_826_00035	Amount Added:	5.00	Units: uL	
MSV_29_826ISS_00013	Amount Added:	1.00	Units: uL	Run Reagent

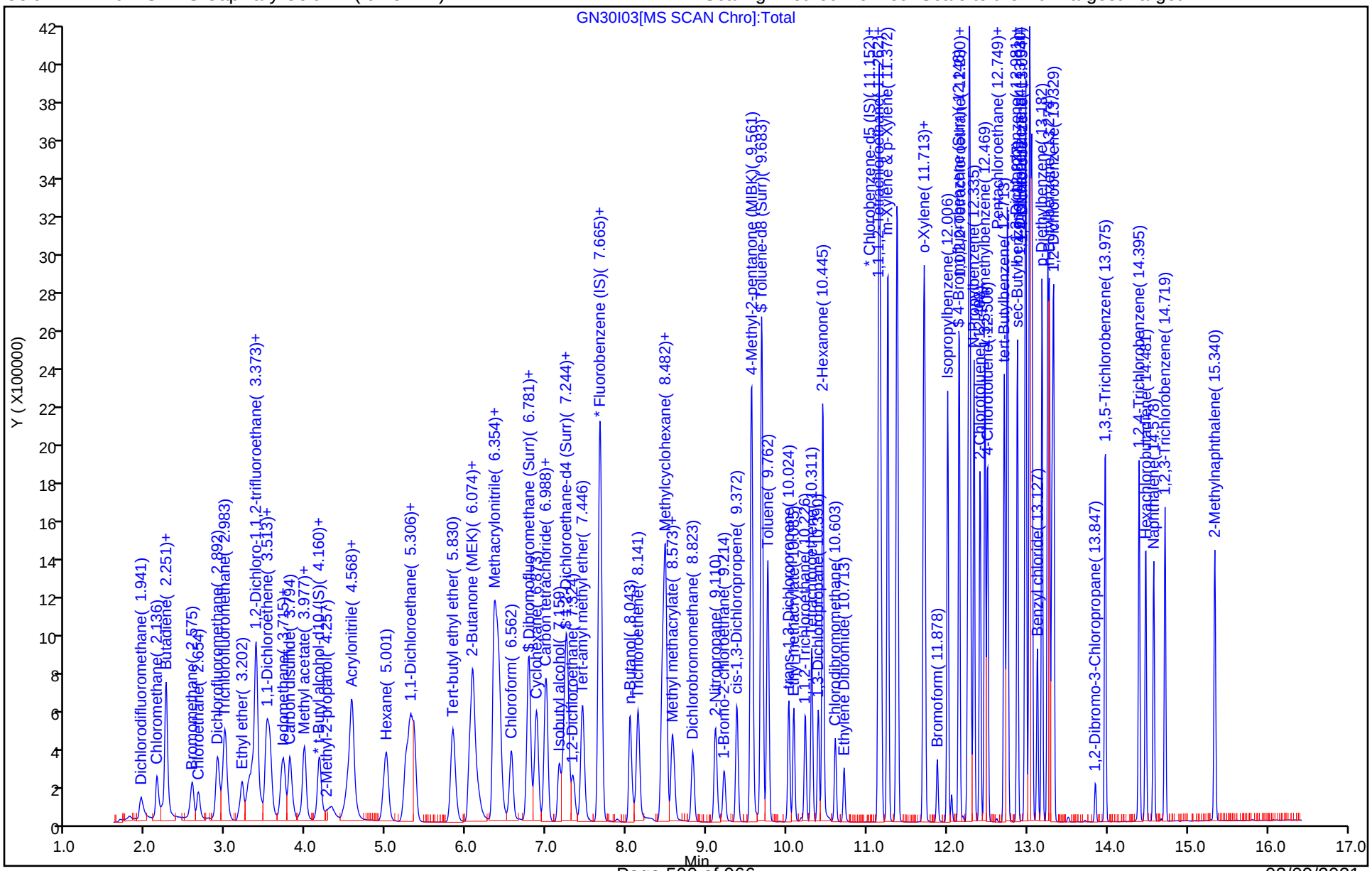
Report Date: 01-Dec-2020 18:57:23 Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I03.D

Injection Date:	30-Nov-2020 13:34:30	Instrument ID:	16334	Operator ID:	DVV10203
Lims ID:	IC std5			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: 2



Eurofins Lancaster Laboratories Env, LLC

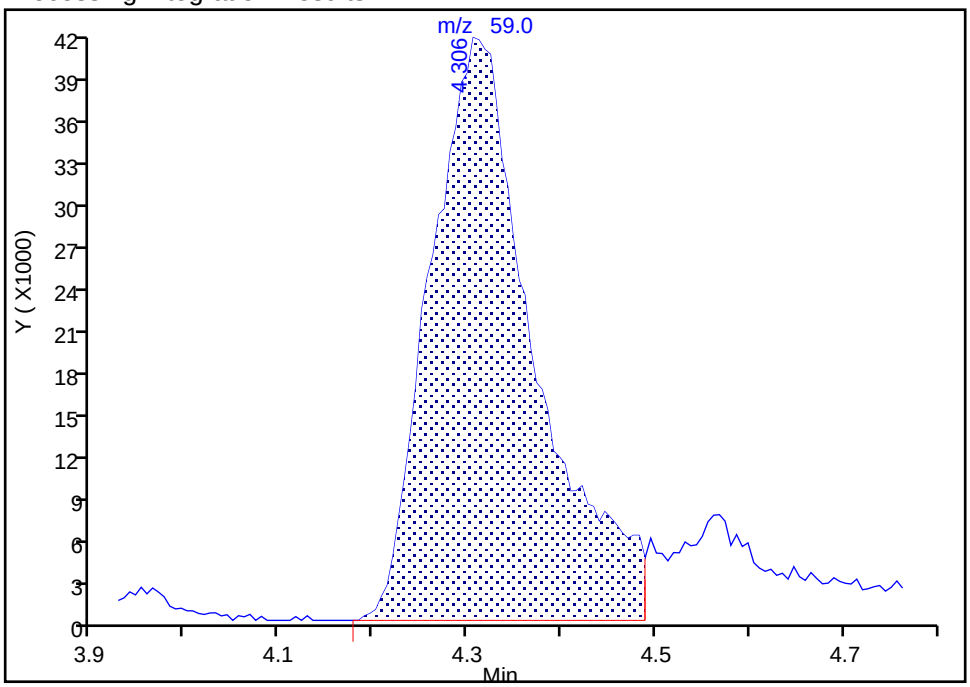
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I03.D				
Injection Date:	30-Nov-2020 13:34:30	Instrument ID:	16334		
Lims ID:	IC std5				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

30 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

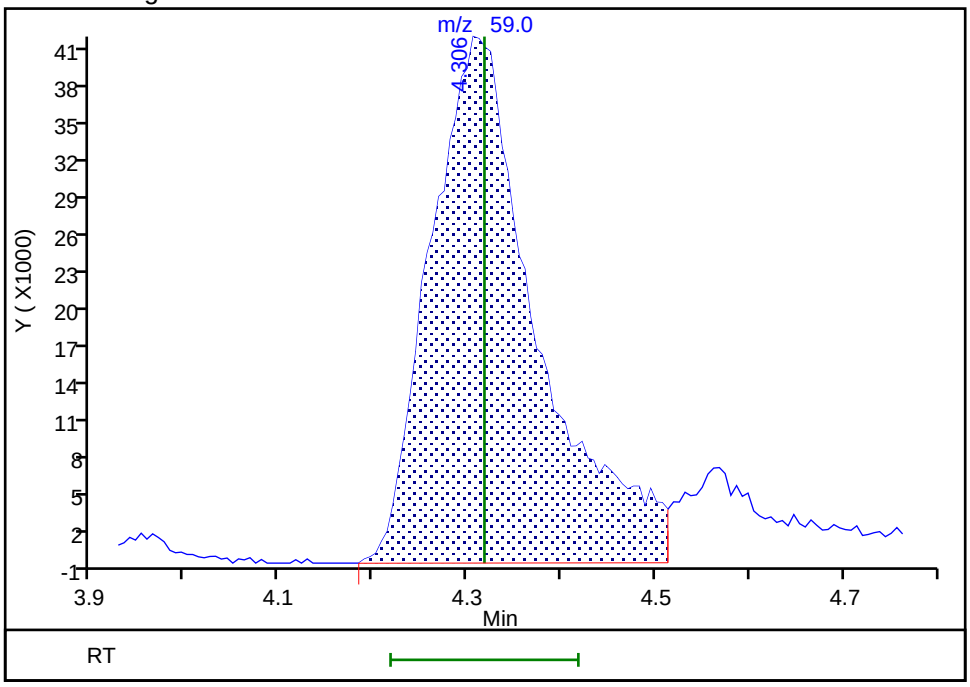
Processing Integration Results

RT: 4.31
Area: 318169
Amount: 99.986734
Amount Units: ug/l



Manual Integration Results

RT: 4.31
Area: 325105
Amount: 98.618521
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:47:24
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

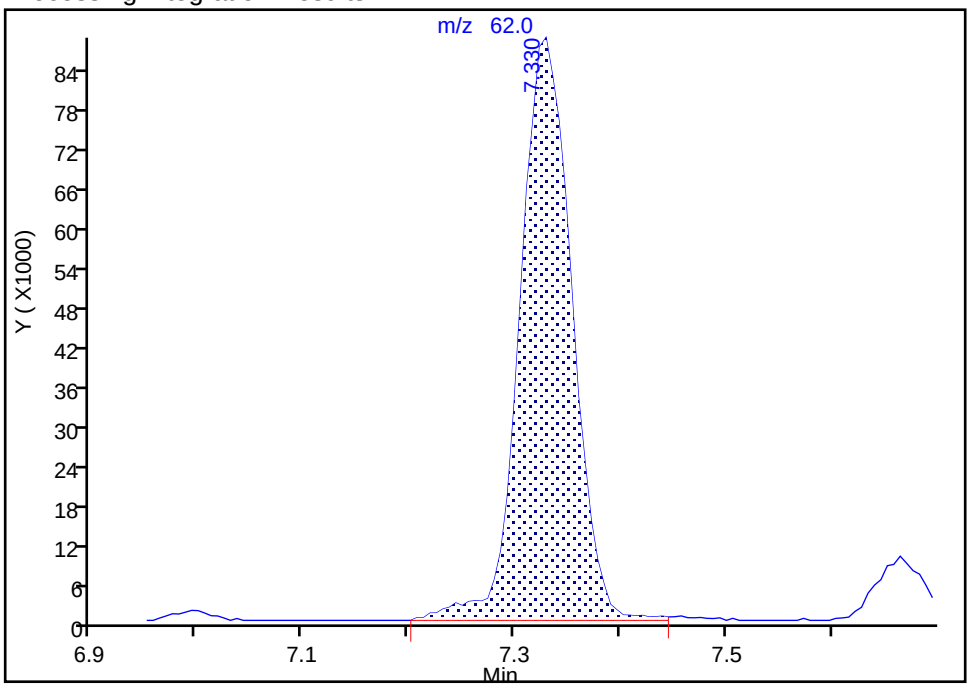
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I03.D
Injection Date: 30-Nov-2020 13:34:30 Instrument ID: 16334
Lims ID: IC std5
Client ID:
Operator ID: DVV10203 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

60 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

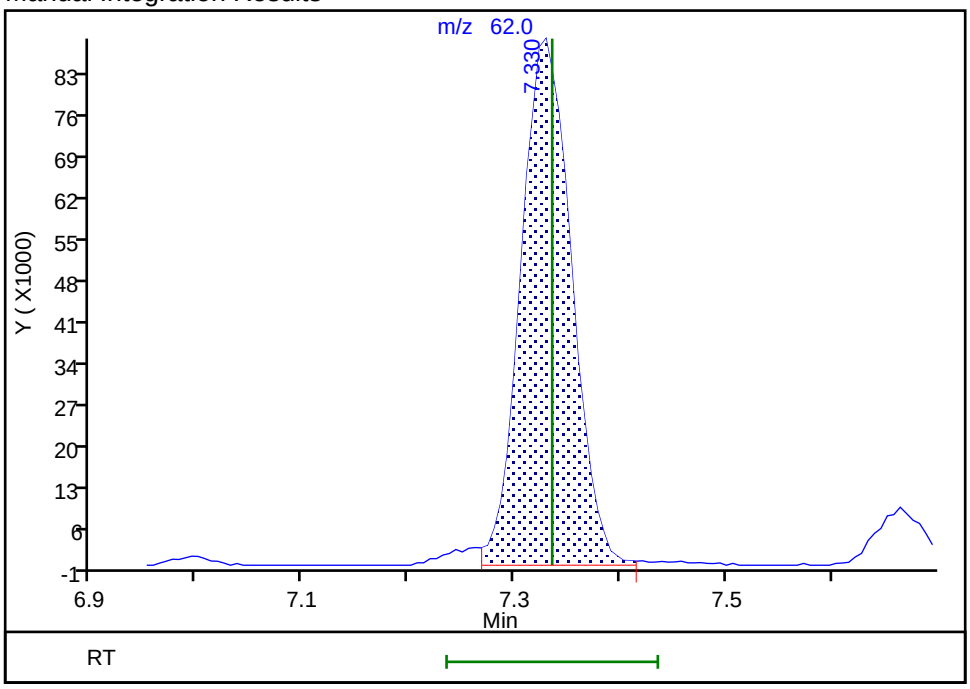
Processing Integration Results

RT: 7.33
Area: 303046
Amount: 4.773793
Amount Units: ug/l



Manual Integration Results

RT: 7.33
Area: 295549
Amount: 4.671457
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:47:41
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

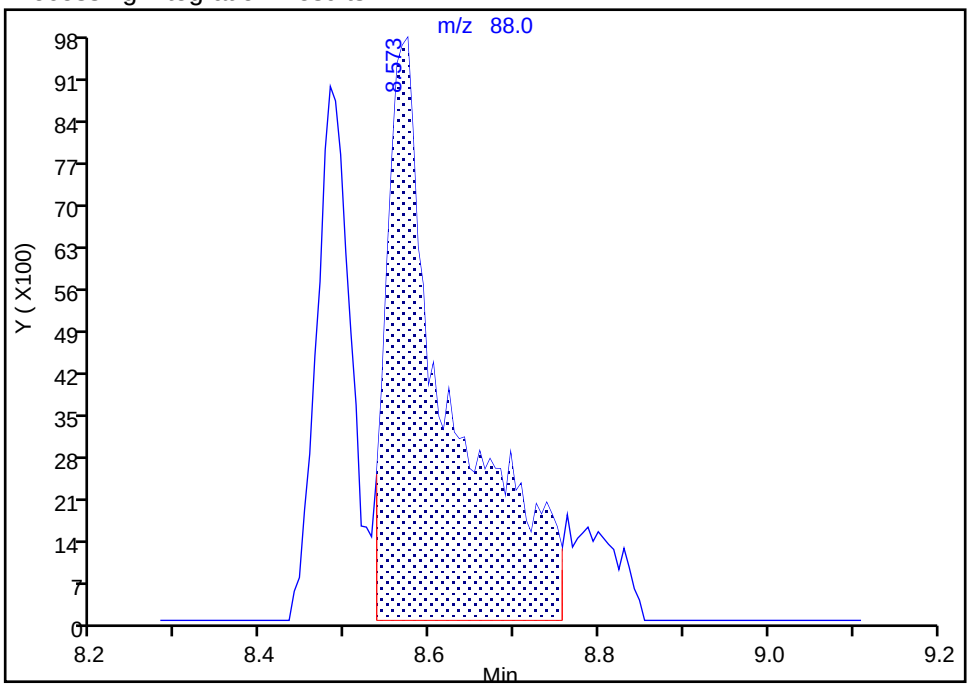
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I03.D				
Injection Date:	30-Nov-2020 13:34:30	Instrument ID:	16334		
Lims ID:	IC std5				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

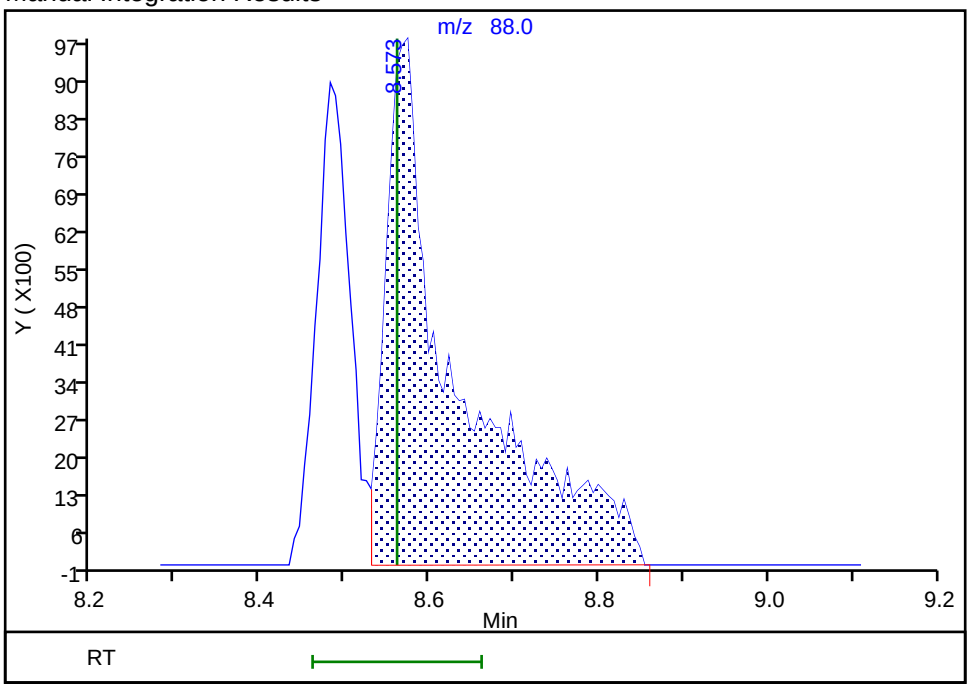
Processing Integration Results

RT: 8.57
Area: 50236
Amount: 287.2121
Amount Units: ug/l



Manual Integration Results

RT: 8.57
Area: 57308
Amount: 271.8974
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:47:52
Audit Action: Manually Integrated Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I04.D
Lims ID: IC std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 30-Nov-2020 13:56:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0016641-006
Misc. Info.: IC STD4
Operator ID: DVV10203 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Dec-2020 18:57:32 Calib Date: 30-Nov-2020 18:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1610

First Level Reviewer: virayd Date: 01-Dec-2020 11:50:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.953	1.953	0.000	99	119710	2.00	2.08	
5 Chloromethane	50	2.148	2.148	0.000	99	154159	2.00	1.99	
6 Butadiene	39	2.264	2.264	0.000	95	172137	2.00	1.95	
7 Vinyl chloride	62	2.270	2.270	0.000	98	134133	2.00	2.03	
9 Bromomethane	94	2.593	2.593	0.000	90	92413	2.00	2.00	
10 Chloroethane	64	2.666	2.666	0.000	99	81099	2.00	2.02	
11 Dichlorofluoromethane	67	2.904	2.904	0.000	97	177022	2.00	1.97	
13 Trichlorofluoromethane	101	2.977	2.977	0.000	97	160183	2.00	2.10	
15 Ethyl ether	59	3.208	3.208	0.000	94	93021	2.00	2.07	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.300	3.300	0.000	95	124813	2.00	2.00	
18 Acrolein	56	3.385	3.385	0.000	99	734398	100.0	99.1	
19 1,1-Dichloroethene	96	3.519	3.519	0.000	97	90732	2.00	1.97	
21 112TCTFE	101	3.556	3.556	0.000	92	97294	2.00	2.16	
20 Acetone	43	3.562	3.562	0.000	99	173204	20.0	18.1	
22 Iodomethane	142	3.714	3.714	0.000	98	173875	2.00	2.02	
23 Isopropyl alcohol	45	3.727	3.727	0.000	45	68119	40.0	38.9	
24 Ethyl bromide	108	3.739	3.739	0.000	98	81572	2.00	2.03	
25 Carbon disulfide	76	3.812	3.812	0.000	99	343343	2.00	2.02	
26 Methyl acetate	43	3.971	3.971	0.000	99	58429	2.00	2.01	M
27 3-Chloro-1-propene	41	3.989	3.989	0.000	93	183197	2.00	1.99	
28 Methylene Chloride	84	4.178	4.178	0.000	94	108056	2.00	2.05	
* 29 t-Butyl alcohol-d10 (IS)	65	4.214	4.214	0.000	0	195329	50.0	50.0	
30 2-Methyl-2-propanol	59	4.336	4.336	0.000	100	140629	40.0	40.0	M
31 Acrylonitrile	53	4.525	4.525	0.000	98	120047	10.0	9.68	
32 Methyl tert-butyl ether	73	4.580	4.580	0.000	96	295684	2.00	2.02	
33 trans-1,2-Dichloroethene	96	4.586	4.586	0.000	97	108056	2.00	2.04	
34 Hexane	57	5.007	5.007	0.000	94	166559	2.00	2.16	
36 1,1-Dichloroethane	63	5.251	5.251	0.000	96	198755	2.00	2.02	
37 Isopropyl ether	45	5.306	5.306	0.000	96	403335	2.00	2.02	
38 2-Chloro-1,3-butadiene	53	5.360	5.360	0.000	91	180575	2.00	2.02	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.836	5.836	0.000	98	363795	2.00	1.99	
40 2-Butanone (MEK)	43	6.049	6.049	0.000	100	341451	20.0	19.2	
41 cis-1,2-Dichloroethene	96	6.086	6.086	0.000	83	120745	2.00	2.03	
42 2,2-Dichloropropane	77	6.092	6.092	0.000	87	166142	2.00	2.01	
44 Propionitrile	54	6.147	6.147	0.000	99	174294	40.0	39.6	
S 49 1,2-Dichloroethene, Total	100				0			4.07	
46 Methacrylonitrile	67	6.360	6.360	0.000	94	317768	20.0	19.5	
48 Chlorobromomethane	128	6.409	6.409	0.000	68	52433	2.00	1.98	
47 Tetrahydrofuran	71	6.409	6.409	0.000	89	89573	20.0	19.5	
50 Chloroform	83	6.561	6.561	0.000	93	191526	2.00	2.02	
$ 52 Dibromofluoromethane (Surr)	113	6.781	6.781	0.000	94	536748	10.0	10.0	
51 1,1,1-Trichloroethane	97	6.787	6.787	0.000	97	162606	2.00	2.00	
53 Cyclohexane	56	6.878	6.878	0.000	93	196628	2.00	2.11	
56 Carbon tetrachloride	117	7.000	7.000	0.000	86	141008	2.00	2.00	
55 1,1-Dichloropropene	75	7.000	7.000	0.000	95	155596	2.00	2.04	
57 Isobutyl alcohol	41	7.165	7.165	0.000	95	121267	100.0	97.0	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.232	7.232	0.000	0	114415	10.0	10.1	
59 Benzene	78	7.263	7.263	0.000	95	455295	2.00	2.03	
60 1,2-Dichloroethane	62	7.336	7.336	0.000	97	122885	2.00	1.96	
62 Tert-amyl methyl ether	73	7.458	7.458	0.000	98	324674	2.00	2.02	
* 63 Fluorobenzene (IS)	96	7.671	7.671	0.000	98	2210035	10.0	10.0	
64 n-Heptane	43	7.677	7.677	0.000	93	181073	2.00	2.08	
65 n-Butanol	56	8.049	8.049	0.000	90	248576	200.0	196.9	
67 Trichloroethene	95	8.147	8.147	0.000	99	116383	2.00	2.03	
68 Methylcyclohexane	83	8.451	8.451	0.000	93	182602	2.00	2.05	
69 1,2-Dichloropropane	63	8.482	8.482	0.000	94	119367	2.00	1.99	
70 2-ethoxy-2-methyl butane	87	8.488	8.488	0.000	89	176797	2.00	2.01	
72 1,4-Dioxane	88	8.567	8.567	0.000	33	26270	100.0	117.0	M
71 Methyl methacrylate	69	8.567	8.567	0.000	94	64887	2.00	1.95	
73 Dibromomethane	93	8.585	8.585	0.000	95	55304	2.00	1.99	
75 Dichlorobromomethane	83	8.823	8.823	0.000	100	140150	2.00	2.01	
76 2-Nitropropane	41	9.110	9.110	0.000	98	180791	20.0	19.2	
79 1-Bromo-2-chloroethane	63	9.219	9.219	0.000	99	130329	2.00	2.02	
80 cis-1,3-Dichloropropene	75	9.378	9.378	0.000	95	181945	2.00	2.01	
81 4-Methyl-2-pentanone (MIBK)	43	9.561	9.561	0.000	98	887415	20.0	19.5	
$ 82 Toluene-d8 (Surr)	98	9.689	9.689	0.000	94	2136446	10.0	9.98	
83 Toluene	92	9.762	9.762	0.000	98	278591	2.00	2.00	
84 trans-1,3-Dichloropropene	75	10.024	10.024	0.000	94	150936	2.00	2.01	
S 87 1,3-Dichloropropene, Total	100				0			4.02	
85 Ethyl methacrylate	69	10.085	10.085	0.000	91	137503	2.00	2.04	
86 1,1,2-Trichloroethane	97	10.231	10.231	0.000	90	81260	2.00	2.00	
88 Tetrachloroethene	166	10.311	10.311	0.000	98	121696	2.00	2.02	
89 1,3-Dichloropropane	76	10.396	10.396	0.000	92	145956	2.00	1.99	
91 2-Hexanone	43	10.451	10.451	0.000	98	645054	20.0	19.7	
93 Chlorodibromomethane	129	10.603	10.603	0.000	90	97381	2.00	2.02	
94 Ethylene Dibromide	107	10.713	10.713	0.000	98	80460	2.00	2.02	
* 95 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	87	1604620	10.0	10.0	
96 1-Chlorohexane	91	11.158	11.158	0.000	97	162251	2.00	1.94	
97 Chlorobenzene	112	11.176	11.176	0.000	95	310565	2.00	2.01	
S 101 Xylenes, Total	106				0			6.02	
98 1,1,1,2-Tetrachloroethane	131	11.256	11.256	0.000	95	111642	2.00	2.03	
99 Ethylbenzene	91	11.262	11.262	0.000	99	548965	2.00	2.00	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 m-Xylene & p-Xylene	106	11.378	11.378	0.000	97	418534	4.00	4.04	
102 o-Xylene	106	11.707	11.707	0.000	97	203530	2.00	1.98	
103 Styrene	104	11.719	11.719	0.000	95	354894	2.00	2.03	
104 Bromoform	173	11.877	11.877	0.000	97	57245	2.00	2.04	
105 Isopropylbenzene	105	12.006	12.006	0.000	96	542248	2.00	2.02	
$ 108 4-Bromofluorobenzene (Surr)	95	12.152	12.152	0.000	90	818494	10.0	10.0	
109 1,1,2,2-Tetrachloroethane	83	12.255	12.255	0.000	92	111748	2.00	2.05	
110 Bromobenzene	156	12.268	12.268	0.000	96	132263	2.00	2.02	
111 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	92	278293	20.0	19.7	
112 1,2,3-Trichloropropane	110	12.304	12.304	0.000	83	28491	2.00	2.05	
113 N-Propylbenzene	91	12.335	12.335	0.000	99	661944	2.00	2.02	
114 2-Chlorotoluene	126	12.414	12.414	0.000	96	130139	2.00	2.02	
115 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	94	466416	2.00	2.02	
116 4-Chlorotoluene	126	12.505	12.505	0.000	98	133168	2.00	1.99	
118 tert-Butylbenzene	134	12.713	12.713	0.000	93	97199	2.00	1.97	
120 Pentachloroethane	167	12.743	12.743	0.000	92	85685	2.00	2.02	
119 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	482620	2.00	2.00	
121 sec-Butylbenzene	105	12.877	12.877	0.000	94	603955	2.00	2.01	
122 1,3-Dichlorobenzene	146	12.975	12.975	0.000	98	266406	2.00	2.01	
123 4-Isopropyltoluene	119	12.981	12.981	0.000	97	518846	2.00	1.99	
* 124 1,4-Dichlorobenzene-d4	152	13.030	13.030	0.000	96	869181	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.048	13.048	0.000	96	271182	2.00	2.01	
126 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	99	214525	2.00	2.01	
127 Benzyl chloride	126	13.127	13.127	0.000	99	46895	2.00	1.98	
129 p-Diethylbenzene	119	13.182	13.182	0.000	92	319745	2.00	2.02	
130 n-Butylbenzene	92	13.274	13.274	0.000	97	275706	2.00	2.00	
131 1,2-Dichlorobenzene	146	13.310	13.310	0.000	98	249800	2.00	2.02	
134 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	79	15596	2.00	1.96	
135 1,3,5-Trichlorobenzene	180	13.975	13.975	0.000	98	215623	2.00	1.95	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	202142	2.00	1.98	
137 Hexachlorobutadiene	225	14.481	14.481	0.000	97	96356	2.00	1.92	
138 Naphthalene	128	14.578	14.578	0.000	97	374308	2.00	2.01	
139 1,2,3-Trichlorobenzene	180	14.718	14.718	0.000	95	178820	2.00	1.98	
140 2-Methylnaphthalene	142	15.340	15.340	0.000	92	267358	2.00	2.01	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00031	Amount Added:	2.00	Units: uL	
MSV_RV4GAS826_00097	Amount Added:	2.00	Units: uL	
MSV_RV4_826_00035	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00013	Amount Added:	1.00	Units: uL	Run Reagent

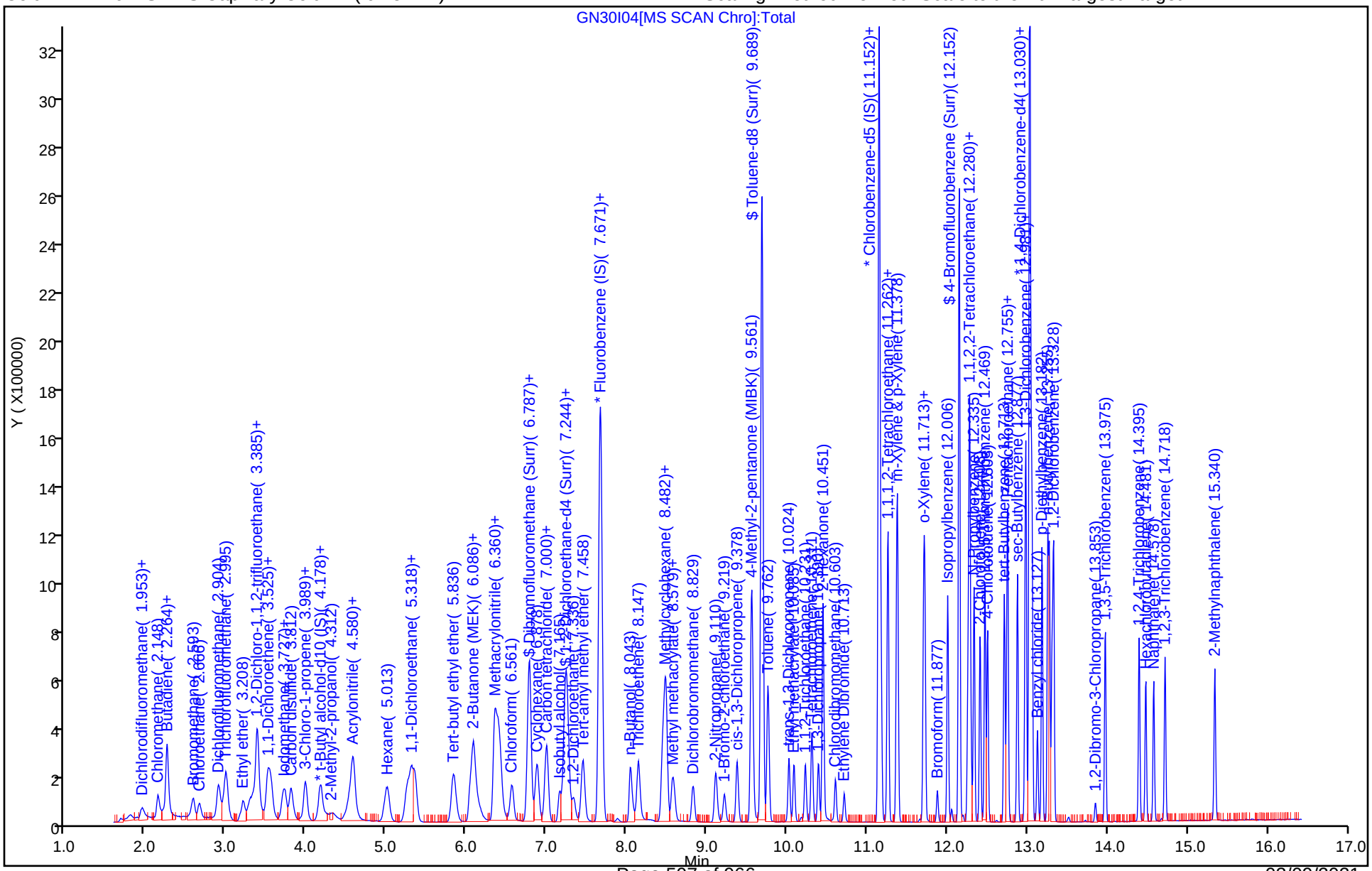
Report Date: 01-Dec-2020 18:57:34 Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I04.D

Injection Date:	30-Nov-2020 13:56:30	Instrument ID:	16334	Operator ID:	DVV10203
Lims ID:	IC std4			Worklist Smp#:	6
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

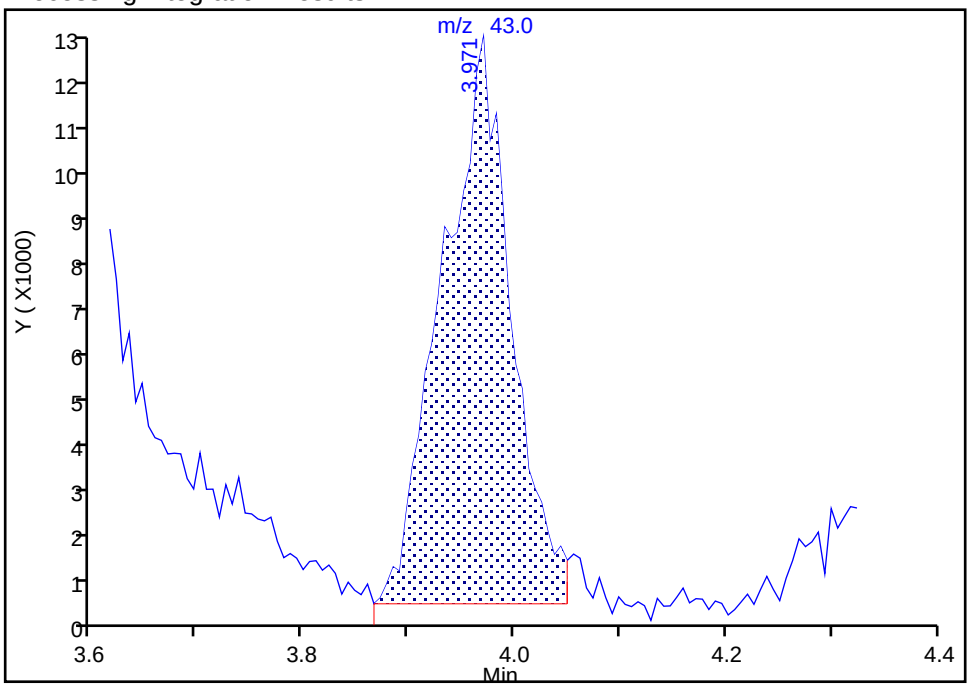
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I04.D				
Injection Date:	30-Nov-2020 13:56:30	Instrument ID:	16334		
Lims ID:	IC std4				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

26 Methyl acetate, CAS: 79-20-9

Signal: 1

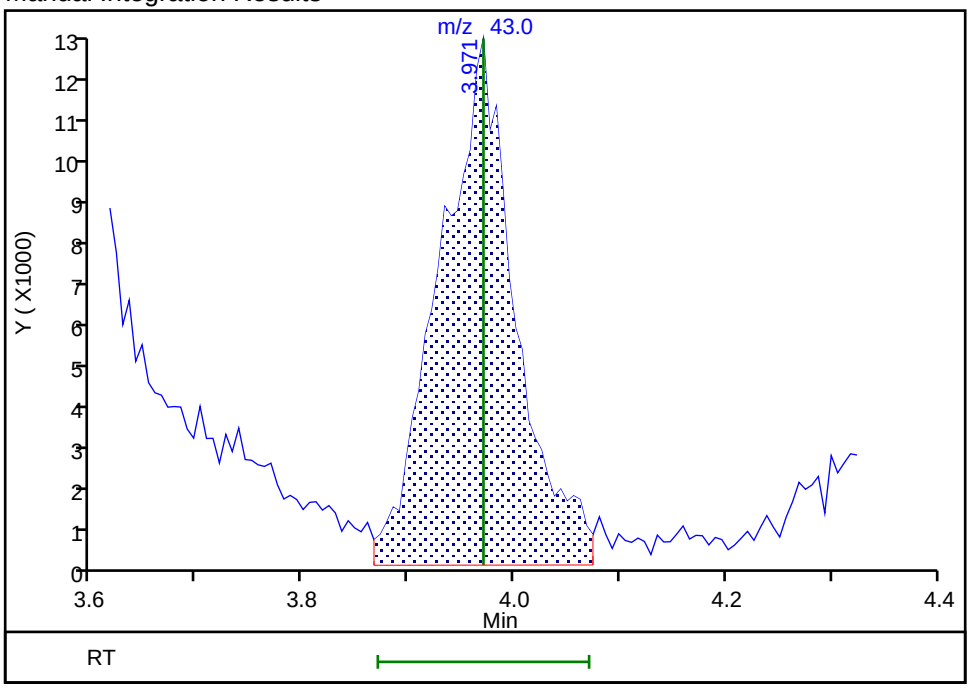
Processing Integration Results

RT: 3.97
Area: 50433
Amount: 2.026094
Amount Units: ug/l



Manual Integration Results

RT: 3.97
Area: 58429
Amount: 2.013897
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:49:22
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

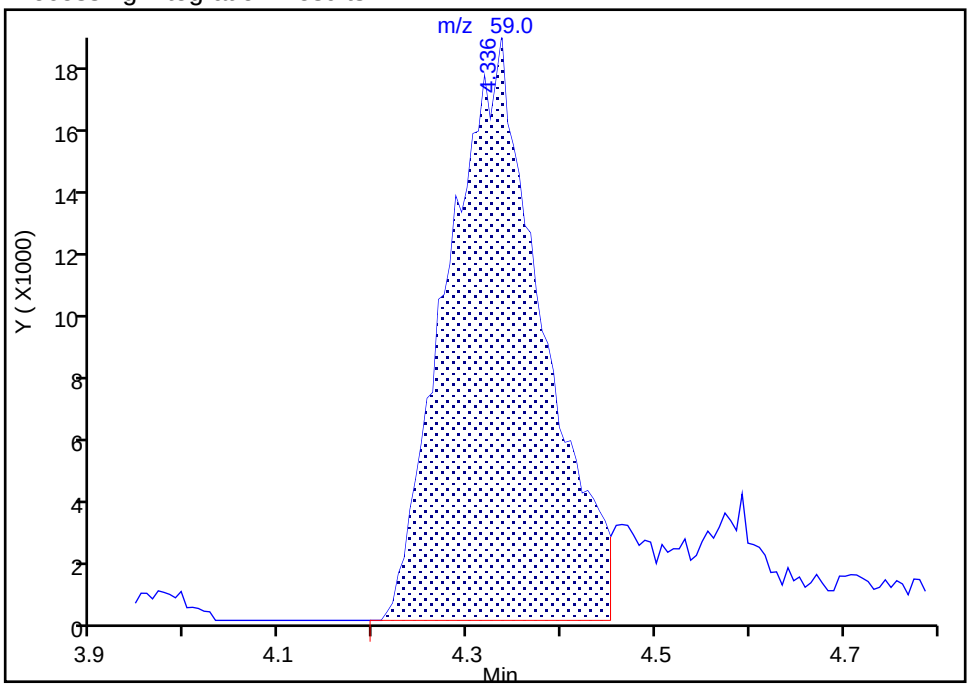
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I04.D
Injection Date: 30-Nov-2020 13:56:30 Instrument ID: 16334
Lims ID: IC std4
Client ID:
Operator ID: DVV10203 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

30 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

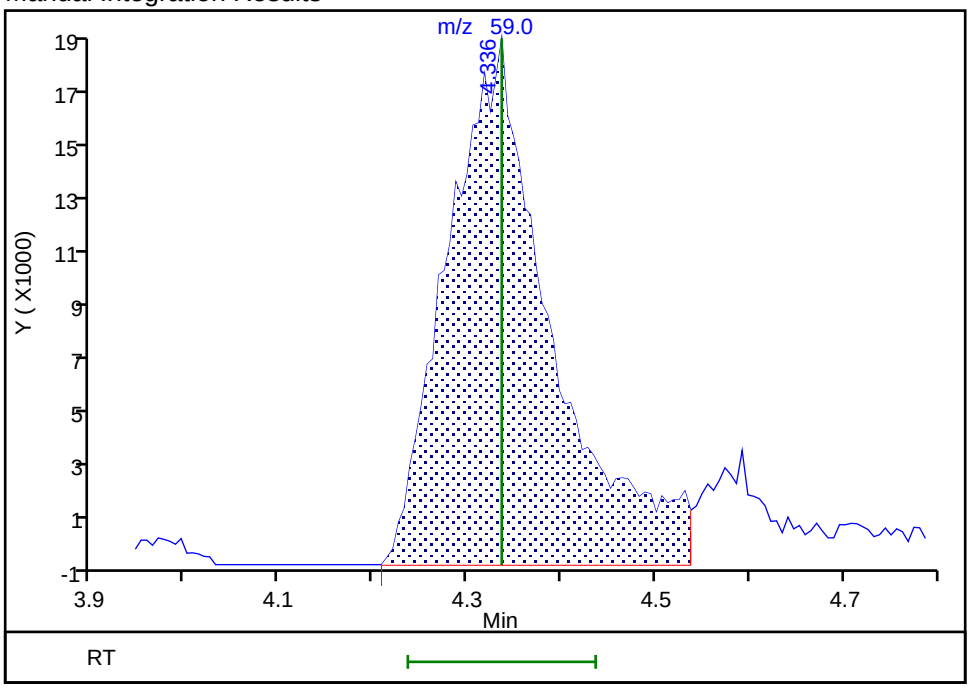
Processing Integration Results

RT: 4.34
Area: 127704
Amount: 37.552288
Amount Units: ug/l



Manual Integration Results

RT: 4.34
Area: 140629
Amount: 40.041223
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:49:37
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

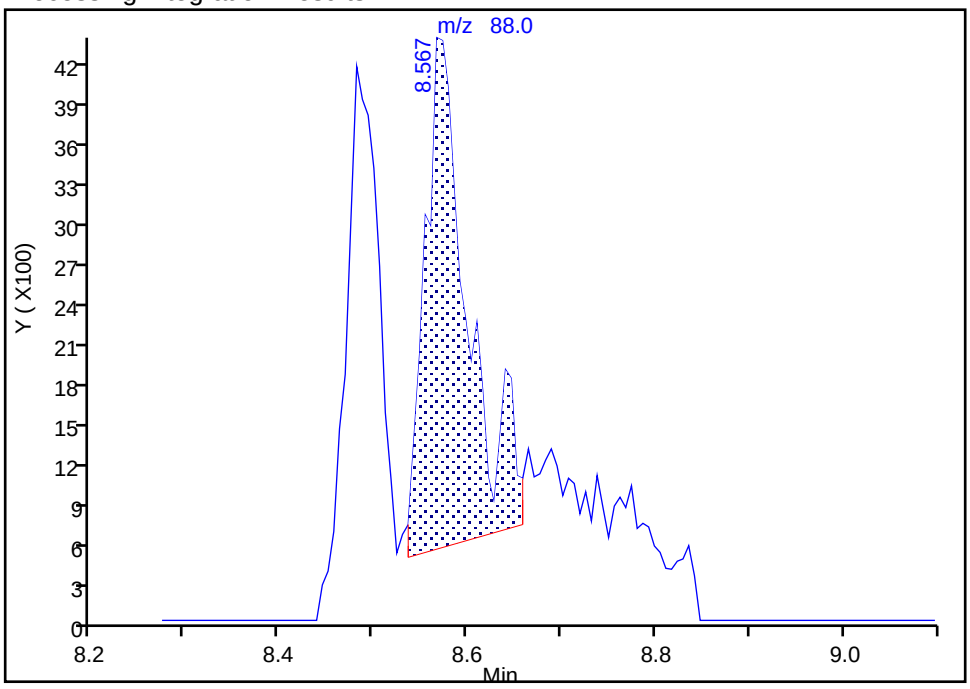
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I04.D				
Injection Date:	30-Nov-2020 13:56:30	Instrument ID:	16334		
Lims ID:	IC std4				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

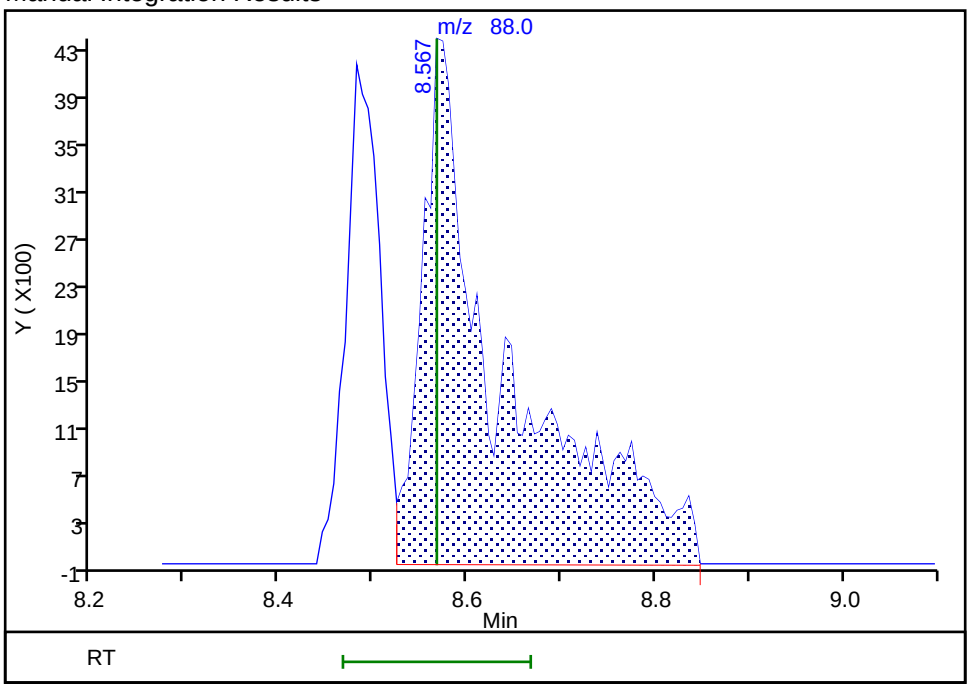
Processing Integration Results

RT: 8.57
Area: 12148
Amount: 63.719188
Amount Units: ug/l



Manual Integration Results

RT: 8.57
Area: 26270
Amount: 116.9896
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:49:57
Audit Action: Manually Integrated Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I05.D
Lims ID: IC std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 30-Nov-2020 14:19:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0016641-007
Misc. Info.: IC STD3
Operator ID: DVV10203 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Dec-2020 18:57:44 Calib Date: 30-Nov-2020 18:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1610

First Level Reviewer: virayd Date: 01-Dec-2020 11:52:37

	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	1.953	0.000	98	59213	1.00	1.03	
5	Chloromethane	50	2.148	2.148	0.000	98	78349	1.00	1.01	
6	Butadiene	39	2.257	2.264	-0.007	96	94809	1.00	1.07	
7	Vinyl chloride	62	2.270	2.270	0.000	79	65380	1.00	0.9872	
9	Bromomethane	94	2.593	2.593	0.000	91	46006	1.00	1.00	
10	Chloroethane	64	2.672	2.666	0.006	99	38699	1.00	0.9631	
11	Dichlorofluoromethane	67	2.910	2.904	0.006	97	85751	1.00	0.9520	
13	Trichlorofluoromethane	101	2.977	2.977	0.000	95	73951	1.00	0.9702	
15	Ethyl ether	59	3.215	3.208	0.007	93	46571	1.00	1.04	
16	1,2-Dichloro-1,1,2-trifluoroetha	67	3.306	3.300	0.006	93	65601	1.00	1.05	
18	Acrolein	56	3.385	3.385	0.000	99	365629	50.0	47.9	
19	1,1-Dichloroethene	96	3.519	3.519	0.000	97	48163	1.00	1.05	
21	112TCTFE	101	3.550	3.556	-0.006	88	49604	1.00	1.10	
20	Acetone	43	3.562	3.562	0.000	99	99654	10.0	10.1	
22	Iodomethane	142	3.714	3.714	0.000	99	90654	1.00	1.05	
23	Isopropyl alcohol	45	3.727	3.727	0.000	34	39390	20.0	22.5	
24	Ethyl bromide	108	3.745	3.739	0.006	98	41519	1.00	1.03	
25	Carbon disulfide	76	3.812	3.812	0.000	99	178461	1.00	1.05	
26	Methyl acetate	43	3.971	3.971	0.001	96	29330	1.00	0.9814	M
27	3-Chloro-1-propene	41	3.989	3.989	0.000	93	96698	1.00	1.05	
28	Methylene Chloride	84	4.178	4.178	0.000	93	55096	1.00	1.04	
* 29	t-Butyl alcohol-d10 (IS)	65	4.202	4.214	-0.012	0	201206	50.0	50.0	
30	2-Methyl-2-propanol	59	4.312	4.336	-0.024	99	78250	20.0	21.6	
31	Acrylonitrile	53	4.531	4.525	0.006	97	65434	5.00	5.12	
32	Methyl tert-butyl ether	73	4.580	4.580	0.000	91	157517	1.00	1.08	
33	trans-1,2-Dichloroethene	96	4.580	4.586	-0.006	98	55706	1.00	1.05	
34	Hexane	57	5.007	5.007	0.000	95	82931	1.00	1.07	
36	1,1-Dichloroethane	63	5.245	5.251	-0.006	95	105511	1.00	1.07	
37	Isopropyl ether	45	5.300	5.306	-0.006	98	213671	1.00	1.07	
38	2-Chloro-1,3-butadiene	53	5.361	5.360	0.001	91	95428	1.00	1.07	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.836	5.836	0.000	99	193019	1.00	1.06	
40 2-Butanone (MEK)	43	6.043	6.049	-0.006	99	186432	10.0	10.2	
41 cis-1,2-Dichloroethene	96	6.086	6.086	0.000	83	63650	1.00	1.07	
42 2,2-Dichloropropane	77	6.098	6.092	0.006	86	86568	1.00	1.05	
44 Propionitrile	54	6.159	6.147	0.012	99	97449	20.0	21.5	
S 49 1,2-Dichloroethene, Total	100				0			2.12	
46 Methacrylonitrile	67	6.360	6.360	0.000	94	167335	10.0	9.95	
48 Chlorobromomethane	128	6.409	6.409	0.000	71	28011	1.00	1.06	
47 Tetrahydrofuran	71	6.415	6.409	0.006	80	48944	10.0	10.3	
50 Chloroform	83	6.568	6.561	0.007	94	100689	1.00	1.06	
$ 52 Dibromofluoromethane (Surr)	113	6.781	6.781	0.000	94	539150	10.0	10.1	
51 1,1,1-Trichloroethane	97	6.793	6.787	0.006	98	85584	1.00	1.05	
53 Cyclohexane	56	6.879	6.878	0.000	92	101123	1.00	1.08	
56 Carbon tetrachloride	117	6.994	7.000	-0.006	87	75097	1.00	1.07	
55 1,1-Dichloropropene	75	7.000	7.000	0.000	95	79831	1.00	1.05	
57 Isobutyl alcohol	41	7.165	7.165	0.000	95	67984	50.0	54.4	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.238	7.232	0.006	0	114722	10.0	10.1	
59 Benzene	78	7.263	7.263	0.000	92	241164	1.00	1.07	
60 1,2-Dichloroethane	62	7.336	7.336	0.000	97	65819	1.00	1.05	
62 Tert-amyl methyl ether	73	7.452	7.458	-0.006	98	172887	1.00	1.07	
* 63 Fluorobenzene (IS)	96	7.671	7.671	0.000	99	2211412	10.0	10.0	
64 n-Heptane	43	7.677	7.677	0.000	72	90836	1.00	1.04	
65 n-Butanol	56	8.049	8.049	0.000	89	125899	100.0	96.8	M
67 Trichloroethene	95	8.147	8.147	0.000	98	59598	1.00	1.04	
68 Methylcyclohexane	83	8.451	8.451	0.000	92	91381	1.00	1.03	
69 1,2-Dichloropropane	63	8.482	8.482	0.000	93	64320	1.00	1.07	
70 2-ethoxy-2-methyl butane	87	8.494	8.488	0.006	92	93157	1.00	1.06	
72 1,4-Dioxane	88	8.573	8.567	0.006	35	11572	50.0	50.0	M
71 Methyl methacrylate	69	8.567	8.567	0.000	94	34214	1.00	1.00	
73 Dibromomethane	93	8.585	8.585	0.000	96	29475	1.00	1.06	
75 Dichlorobromomethane	83	8.823	8.823	0.000	99	73464	1.00	1.05	
76 2-Nitropropane	41	9.110	9.110	0.000	99	96897	10.0	9.98	
79 1-Bromo-2-chloroethane	63	9.220	9.219	0.001	98	67155	1.00	1.04	
80 cis-1,3-Dichloropropene	75	9.372	9.378	-0.006	95	95377	1.00	1.05	
81 4-Methyl-2-pentanone (MIBK)	43	9.561	9.561	0.000	97	478190	10.0	10.2	
$ 82 Toluene-d8 (Surr)	98	9.689	9.689	0.000	94	2136211	10.0	10.0	
83 Toluene	92	9.762	9.762	0.000	98	146327	1.00	1.06	
84 trans-1,3-Dichloropropene	75	10.024	10.024	0.000	94	76563	1.00	1.02	
S 87 1,3-Dichloropropene, Total	100				0			2.08	
85 Ethyl methacrylate	69	10.091	10.085	0.006	91	70532	1.00	1.05	
86 1,1,2-Trichloroethane	97	10.232	10.231	0.001	90	43259	1.00	1.07	
88 Tetrachloroethene	166	10.311	10.311	0.000	98	62720	1.00	1.04	
89 1,3-Dichloropropane	76	10.390	10.396	-0.006	91	77242	1.00	1.06	
91 2-Hexanone	43	10.451	10.451	0.000	98	334821	10.0	9.91	
93 Chlorodibromomethane	129	10.603	10.603	0.000	90	50339	1.00	1.05	
94 Ethylene Dibromide	107	10.713	10.713	0.000	99	42028	1.00	1.06	
* 95 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	86	1600264	10.0	10.0	
96 1-Chlorohexane	91	11.158	11.158	0.000	96	86809	1.00	1.04	
97 Chlorobenzene	112	11.176	11.176	0.000	94	161371	1.00	1.04	
S 101 Xylenes, Total	106				0			3.16	
98 1,1,1,2-Tetrachloroethane	131	11.256	11.256	0.000	95	57609	1.00	1.05	
99 Ethylbenzene	91	11.262	11.262	0.000	98	288772	1.00	1.05	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 m-Xylene & p-Xylene	106	11.378	11.378	0.000	97	219481	2.00	2.13	
102 o-Xylene	106	11.707	11.707	0.000	97	105945	1.00	1.03	
103 Styrene	104	11.719	11.719	0.000	95	183091	1.00	1.05	
104 Bromoform	173	11.878	11.877	0.001	96	28046	1.00	1.00	
105 Isopropylbenzene	105	12.006	12.006	0.000	96	280719	1.00	1.05	
$ 108 4-Bromofluorobenzene (Surr)	95	12.152	12.152	0.000	90	818561	10.0	10.0	
109 1,1,2,2-Tetrachloroethane	83	12.256	12.255	0.001	92	56804	1.00	1.05	
110 Bromobenzene	156	12.268	12.268	0.000	96	69470	1.00	1.07	
111 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	92	139562	10.0	9.57	
112 1,2,3-Trichloropropane	110	12.298	12.304	-0.006	79	15377	1.00	1.12	
113 N-Propylbenzene	91	12.335	12.335	0.000	99	338497	1.00	1.05	
114 2-Chlorotoluene	126	12.408	12.414	-0.006	96	68023	1.00	1.07	
115 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	94	240788	1.00	1.05	
116 4-Chlorotoluene	126	12.505	12.505	0.000	97	71097	1.00	1.07	
118 tert-Butylbenzene	134	12.713	12.713	0.000	94	50184	1.00	1.03	
120 Pentachloroethane	167	12.743	12.743	0.000	90	43066	1.00	1.03	
119 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	250956	1.00	1.05	
121 sec-Butylbenzene	105	12.877	12.877	0.000	94	311759	1.00	1.05	
122 1,3-Dichlorobenzene	146	12.975	12.975	0.000	98	137230	1.00	1.05	
123 4-Isopropyltoluene	119	12.981	12.981	0.000	98	274677	1.00	1.06	
* 124 1,4-Dichlorobenzene-d4	152	13.030	13.030	0.000	95	860391	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.048	13.048	0.000	94	138733	1.00	1.04	
126 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	99	109147	1.00	1.03	
127 Benzyl chloride	126	13.127	13.127	0.000	99	25065	1.00	1.07	
129 p-Diethylbenzene	119	13.182	13.182	0.000	93	165650	1.00	1.06	
130 n-Butylbenzene	92	13.274	13.274	0.000	98	144959	1.00	1.06	
131 1,2-Dichlorobenzene	146	13.310	13.310	0.000	98	130553	1.00	1.07	
134 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	87	8650	1.00	1.10	
135 1,3,5-Trichlorobenzene	180	13.975	13.975	0.000	98	114581	1.00	1.04	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	104962	1.00	1.04	
137 Hexachlorobutadiene	225	14.481	14.481	0.000	97	50715	1.00	1.02	
138 Naphthalene	128	14.578	14.578	0.000	97	196928	1.00	1.07	
139 1,2,3-Trichlorobenzene	180	14.718	14.718	0.000	95	93358	1.00	1.05	
140 2-Methylnaphthalene	142	15.340	15.340	0.000	92	137772	1.00	1.05	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00031	Amount Added:	2.00	Units: uL	
MSV_RV4GAS826_00097	Amount Added:	2.00	Units: uL	
MSV_RV4_826_00035	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00013	Amount Added:	1.00	Units: uL	Run Reagent

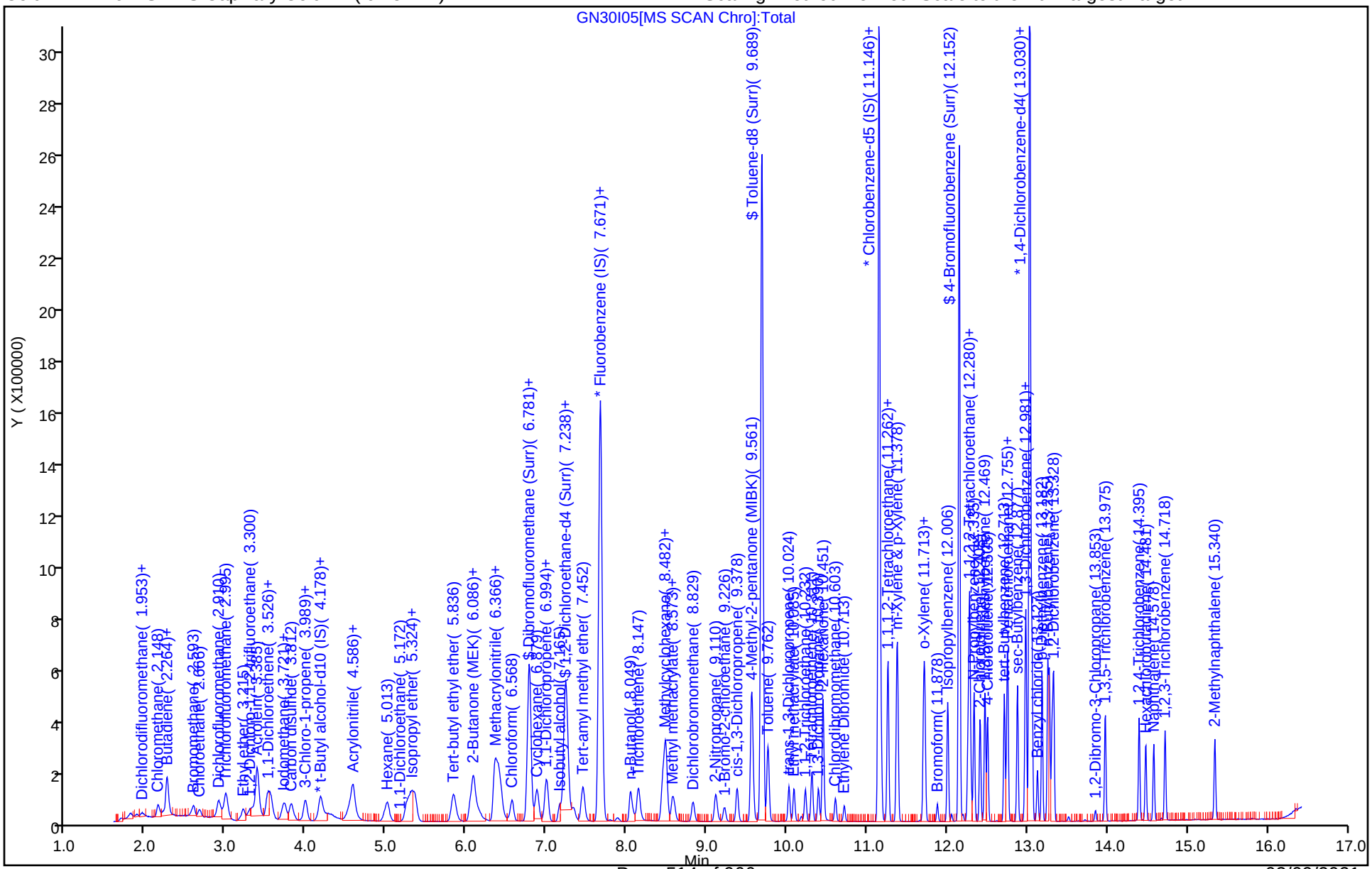
Report Date: 01-Dec-2020 18:57:45 Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I05.D

Injection Date:	30-Nov-2020 14:19:30	Instrument ID:	16334	Operator ID:	DVV10203
Lims ID:	IC std3			Worklist Smp#:	7
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

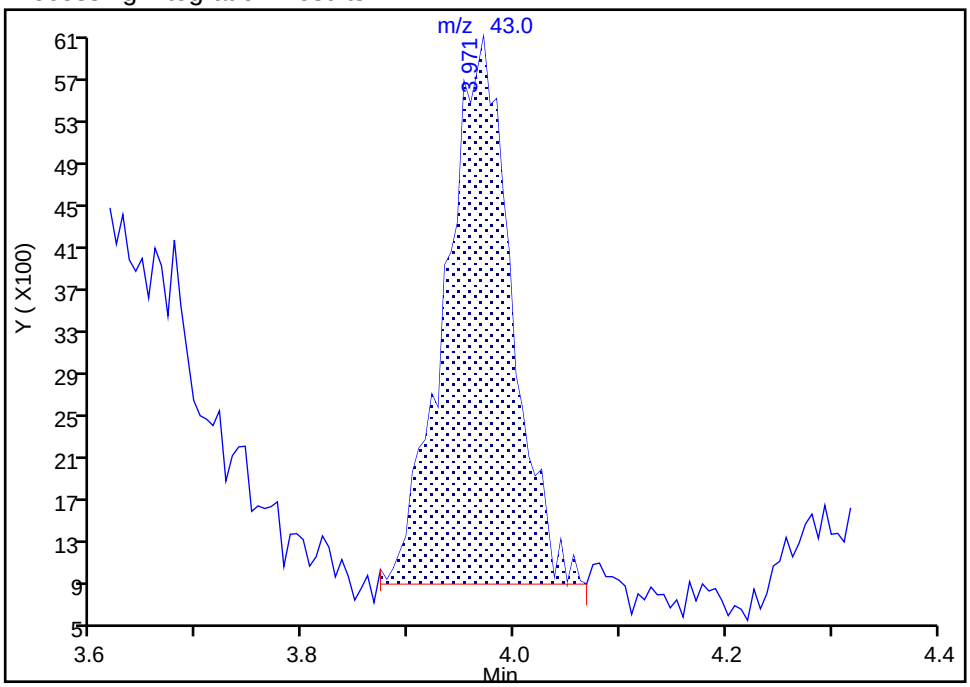
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I05.D				
Injection Date:	30-Nov-2020 14:19:30	Instrument ID:	16334		
Lims ID:	IC std3				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

26 Methyl acetate, CAS: 79-20-9

Signal: 1

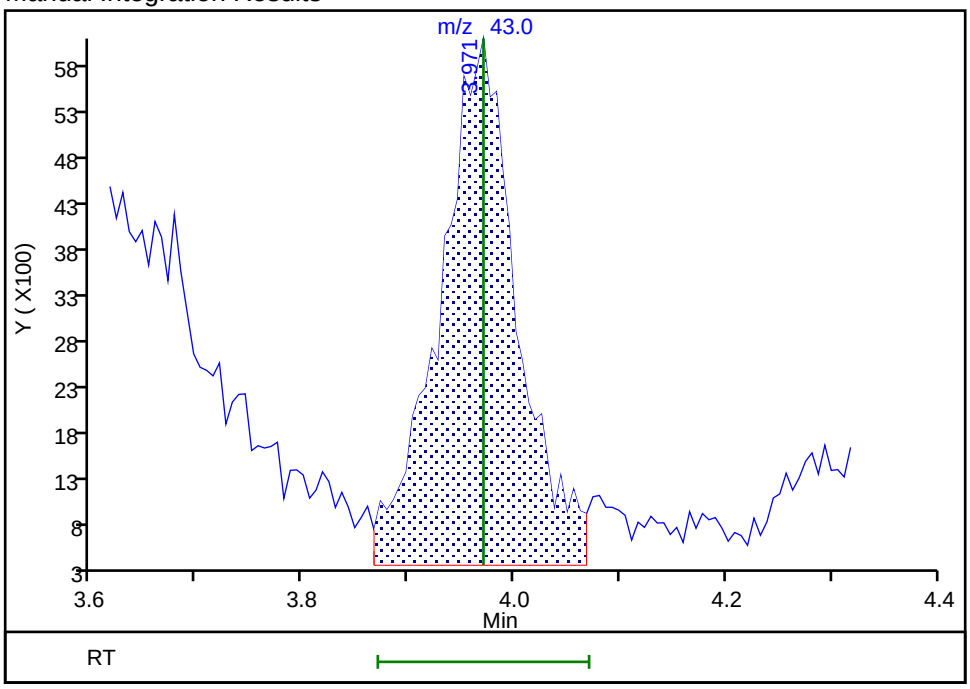
Processing Integration Results

RT: 3.97
Area: 22428
Amount: 0.855084
Amount Units: ug/l



Manual Integration Results

RT: 3.97
Area: 29330
Amount: 0.981402
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:51:24
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

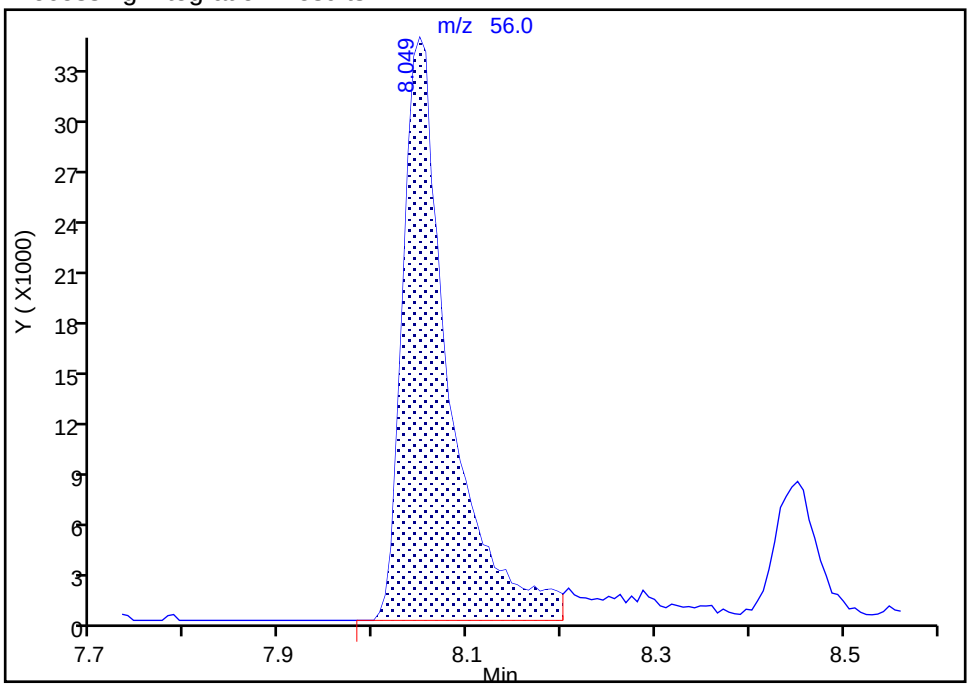
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I05.D
Injection Date: 30-Nov-2020 14:19:30 Instrument ID: 16334
Lims ID: IC std3
Client ID:
Operator ID: DVV10203 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

65 n-Butanol, CAS: 71-36-3

Signal: 1

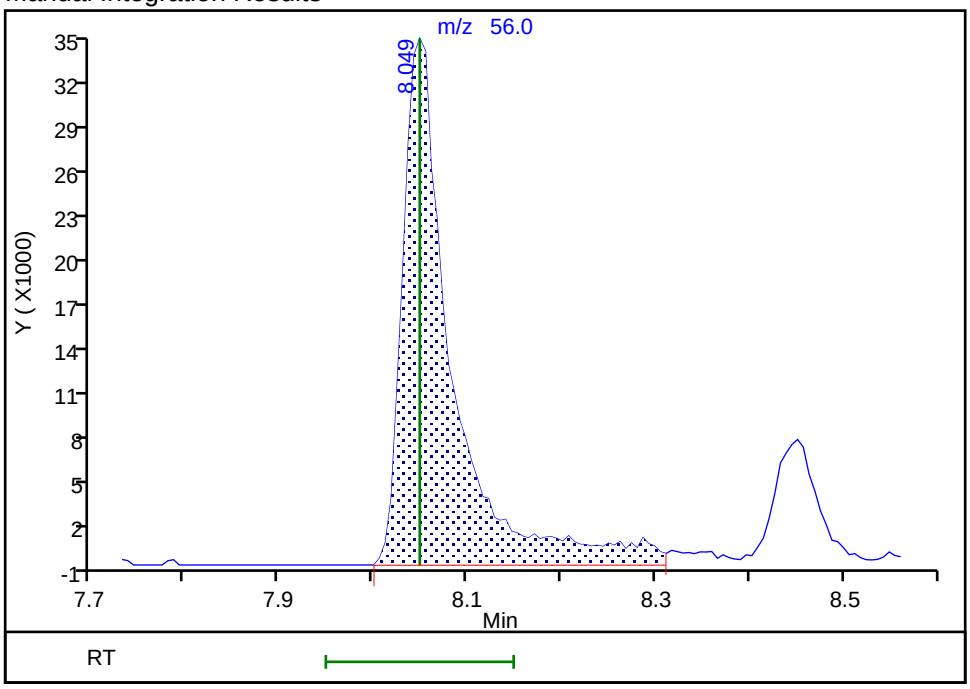
Processing Integration Results

RT: 8.05
Area: 117068
Amount: 90.927496
Amount Units: ug/l



Manual Integration Results

RT: 8.05
Area: 125899
Amount: 96.837708
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:51:57
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

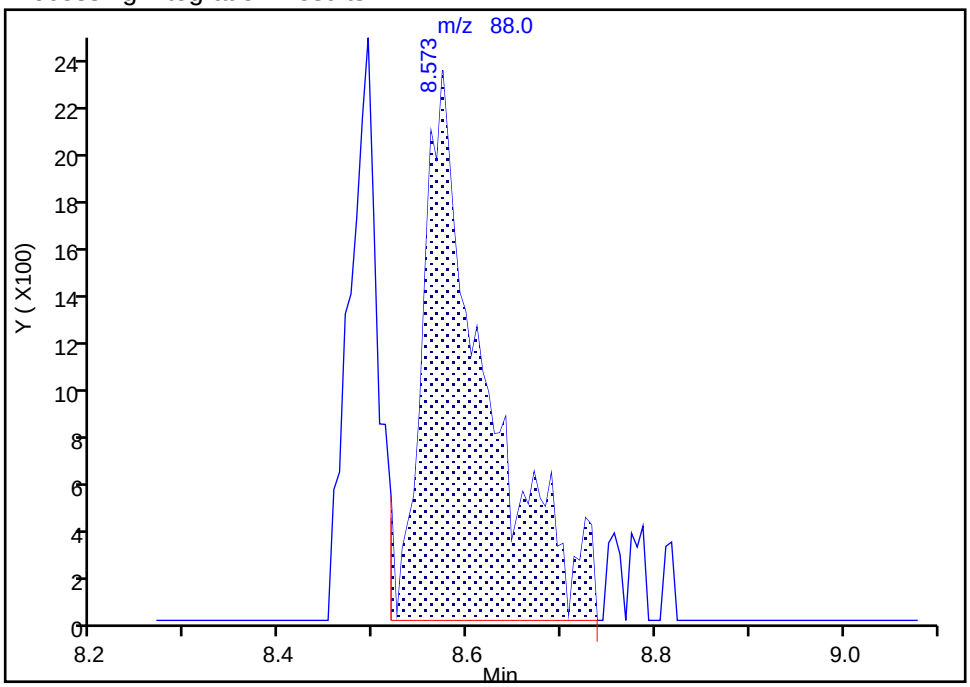
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I05.D
Injection Date: 30-Nov-2020 14:19:30 Instrument ID: 16334
Lims ID: IC std3
Client ID:
Operator ID: DVV10203 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

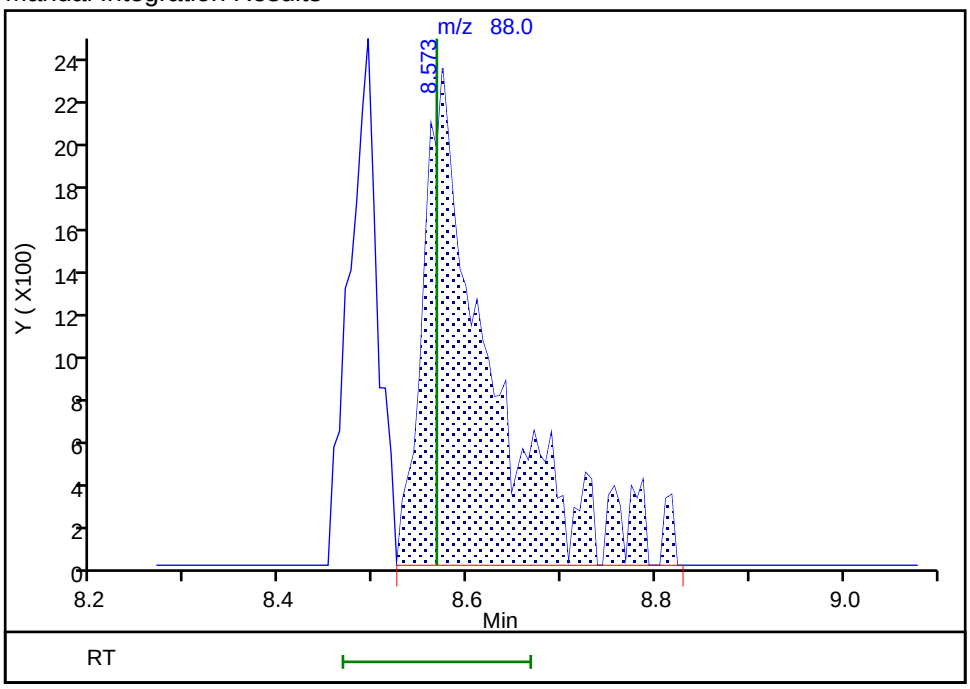
Processing Integration Results

RT: 8.57
Area: 10783
Amount: 49.653151
Amount Units: ug/l



Manual Integration Results

RT: 8.57
Area: 11572
Amount: 50.028974
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:52:12
Audit Action: Manually Integrated Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D
Lims ID: IC std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 30-Nov-2020 14:41:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0016641-008
Misc. Info.: IC STD2
Operator ID: DVV10203 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Dec-2020 18:57:55 Calib Date: 30-Nov-2020 18:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1610

First Level Reviewer: virayd Date: 01-Dec-2020 11:55:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.959	1.953	0.006	98	29137	0.5000	0.5119	M
5 Chloromethane	50	2.148	2.148	0.000	98	40943	0.5000	0.5331	
6 Butadiene	39	2.257	2.264	-0.007	94	51097	0.5000	0.5845	M
7 Vinyl chloride	62	2.257	2.270	-0.013	81	33758	0.5000	0.5149	
9 Bromomethane	94	2.593	2.593	0.000	88	23952	0.5000	0.5242	M
10 Chloroethane	64	2.654	2.666	-0.012	99	20672	0.5000	0.5197	
11 Dichlorofluoromethane	67	2.904	2.904	0.000	97	46525	0.5000	0.5217	M
13 Trichlorofluoromethane	101	2.977	2.977	0.000	97	38530	0.5000	0.5106	
15 Ethyl ether	59	3.208	3.208	0.000	95	22931	0.5001	0.5148	M
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.312	3.300	0.012	95	31854	0.5000	0.5165	
18 Acrolein	56	3.385	3.385	0.000	99	182229	25.0	24.5	
19 1,1-Dichloroethene	96	3.519	3.519	0.000	98	23861	0.5000	0.5232	
21 112TCTFE	101	3.556	3.556	0.000	93	21323	0.5000	0.4782	
20 Acetone	43	3.550	3.562	-0.012	99	50222	5.00	5.23	M
22 Iodomethane	142	3.708	3.714	-0.006	98	43500	0.5000	0.5107	Ma
23 Isopropyl alcohol	45	3.733	3.727	0.006	33	20534	10.0	11.8	M
24 Ethyl bromide	108	3.739	3.739	0.000	97	21157	0.5000	0.5326	
25 Carbon disulfide	76	3.806	3.812	-0.006	98	84062	0.5000	0.5001	
26 Methyl acetate	43	3.977	3.971	0.007	29	12966	0.5000	0.4458	
27 3-Chloro-1-propene	41	3.983	3.989	-0.006	92	50604	0.5000	0.5546	
28 Methylene Chloride	84	4.172	4.178	-0.006	93	26198	0.5000	0.5013	
* 29 t-Butyl alcohol-d10 (IS)	65	4.196	4.214	-0.018	0	195834	50.0	50.0	
30 2-Methyl-2-propanol	59	4.342	4.336	0.006	98	37272	10.0	10.6	M
31 Acrylonitrile	53	4.531	4.525	0.006	99	32066	2.50	2.58	
32 Methyl tert-butyl ether	73	4.574	4.580	-0.006	95	73272	0.5000	0.5055	
33 trans-1,2-Dichloroethene	96	4.574	4.586	-0.012	98	26963	0.5000	0.5135	
34 Hexane	57	5.001	5.007	-0.006	94	35728	0.5000	0.4667	
36 1,1-Dichloroethane	63	5.257	5.251	0.006	95	48509	0.5000	0.4978	
37 Isopropyl ether	45	5.300	5.306	-0.006	96	99922	0.5000	0.5041	
38 2-Chloro-1,3-butadiene	53	5.354	5.360	-0.006	91	44458	0.5000	0.5017	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.836	5.836	0.000	98	92089	0.5000	0.5095	
40 2-Butanone (MEK)	43	6.049	6.049	0.000	99	89142	5.00	5.01	
41 cis-1,2-Dichloroethene	96	6.092	6.086	0.006	83	30199	0.5000	0.5123	
42 2,2-Dichloropropane	77	6.098	6.092	0.006	64	41487	0.5000	0.5076	M
44 Propionitrile	54	6.147	6.147	0.000	98	45761	10.0	10.4	
S 49 1,2-Dichloroethene, Total	100				0			1.03	
46 Methacrylonitrile	67	6.360	6.360	0.000	93	77275	5.00	4.72	
48 Chlorobromomethane	128	6.409	6.409	0.000	74	13722	0.5000	0.5222	
47 Tetrahydrofuran	71	6.415	6.409	0.006	94	21854	5.00	4.75	
50 Chloroform	83	6.561	6.561	0.000	93	47732	0.5000	0.5083	
$ 52 Dibromofluoromethane (Surr)	113	6.781	6.781	0.000	94	532962	10.0	10.1	
51 1,1,1-Trichloroethane	97	6.793	6.787	0.006	59	41257	0.5000	0.5134	
53 Cyclohexane	56	6.878	6.878	0.000	92	45968	0.5000	0.4978	
56 Carbon tetrachloride	117	6.988	7.000	-0.012	83	34456	0.5000	0.4945	M
55 1,1-Dichloropropene	75	7.006	7.000	0.006	95	37534	0.5000	0.4971	
57 Isobutyl alcohol	41	7.159	7.165	-0.006	93	29644	25.0	23.9	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.232	7.232	0.000	0	111685	10.0	9.91	
59 Benzene	78	7.263	7.263	0.000	93	111347	0.5000	0.5003	
60 1,2-Dichloroethane	62	7.330	7.336	-0.006	97	32618	0.5000	0.5241	
62 Tert-amyl methyl ether	73	7.452	7.458	-0.006	98	79984	0.5000	0.5020	
* 63 Fluorobenzene (IS)	96	7.671	7.671	0.000	98	2189287	10.0	10.0	
64 n-Heptane	43	7.677	7.677	0.000	37	40450	0.5000	0.4683	
65 n-Butanol	56	8.049	8.049	0.000	91	62965	50.0	49.8	
67 Trichloroethene	95	8.140	8.147	-0.007	97	28664	0.5000	0.5044	
68 Methylcyclohexane	83	8.445	8.451	-0.006	90	45474	0.5000	0.5153	
69 1,2-Dichloropropane	63	8.482	8.482	0.000	73	30117	0.5000	0.5059	
70 2-ethoxy-2-methyl butane	87	8.482	8.488	-0.006	89	42888	0.5000	0.4926	
72 1,4-Dioxane	88	8.567	8.567	0.000	37	5456	25.0	24.2	M
71 Methyl methacrylate	69	8.573	8.567	0.006	92	16301	0.5000	0.4890	
73 Dibromomethane	93	8.579	8.585	-0.006	68	13777	0.5000	0.4993	M
75 Dichlorobromomethane	83	8.829	8.823	0.006	98	33392	0.5000	0.4837	
76 2-Nitropropane	41	9.110	9.110	0.000	98	44863	5.00	4.75	
79 1-Bromo-2-chloroethane	63	9.219	9.219	0.000	98	32732	0.5000	0.5129	
80 cis-1,3-Dichloropropene	75	9.378	9.378	0.000	95	44710	0.5000	0.4990	
81 4-Methyl-2-pentanone (MIBK)	43	9.561	9.561	0.000	98	222955	5.00	4.88	
$ 82 Toluene-d8 (Surr)	98	9.689	9.689	0.000	94	2121912	10.0	10.0	
83 Toluene	92	9.762	9.762	0.000	98	69853	0.5000	0.5070	
84 trans-1,3-Dichloropropene	75	10.018	10.024	-0.006	94	37093	0.5000	0.4986	
S 87 1,3-Dichloropropene, Total	100				0			1.00	
85 Ethyl methacrylate	69	10.085	10.085	0.000	91	32351	0.5000	0.4839	
86 1,1,2-Trichloroethane	97	10.231	10.231	0.000	89	20860	0.5000	0.5190	
88 Tetrachloroethene	166	10.311	10.311	0.000	98	30689	0.5000	0.5133	
89 1,3-Dichloropropane	76	10.390	10.396	-0.006	91	36850	0.5000	0.5083	
91 2-Hexanone	43	10.451	10.451	0.000	98	157747	5.00	4.80	
93 Chlorodibromomethane	129	10.603	10.603	0.000	91	22656	0.5000	0.4752	
94 Ethylene Dibromide	107	10.713	10.713	0.000	97	19536	0.5000	0.4951	
* 95 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	87	1589997	10.0	10.0	
96 1-Chlorohexane	91	11.158	11.158	0.000	97	43401	0.5000	0.5245	
97 Chlorobenzene	112	11.176	11.176	0.000	95	78284	0.5000	0.5101	
S 101 Xylenes, Total	106				0			1.51	
98 1,1,1,2-Tetrachloroethane	131	11.256	11.256	0.000	96	26540	0.5000	0.4867	
99 Ethylbenzene	91	11.262	11.262	0.000	99	136856	0.5000	0.5026	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 m-Xylene & p-Xylene	106	11.378	11.378	0.000	97	102766	1.00	1.00	
102 o-Xylene	106	11.707	11.707	0.000	97	51651	0.5000	0.5076	
103 Styrene	104	11.719	11.719	0.000	95	86978	0.5000	0.5016	
104 Bromoform	173	11.877	11.877	0.000	96	12931	0.5000	0.4646	
105 Isopropylbenzene	105	12.006	12.006	0.000	96	132190	0.5000	0.4966	
$ 108 4-Bromofluorobenzene (Surr)	95	12.146	12.152	-0.006	89	812090	10.0	10.0	
109 1,1,2,2-Tetrachloroethane	83	12.255	12.255	0.000	93	27699	0.5000	0.5113	
110 Bromobenzene	156	12.268	12.268	0.000	93	32482	0.5000	0.4994	
111 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	95	63627	5.00	4.48	
112 1,2,3-Trichloropropane	110	12.298	12.304	-0.006	75	7254	0.5000	0.5253	
113 N-Propylbenzene	91	12.335	12.335	0.000	99	165110	0.5000	0.5091	
114 2-Chlorotoluene	126	12.414	12.414	0.000	96	31485	0.5000	0.4937	
115 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	94	115372	0.5000	0.5043	
116 4-Chlorotoluene	126	12.505	12.505	0.000	97	34713	0.5000	0.5220	
118 tert-Butylbenzene	134	12.713	12.713	0.000	93	25251	0.5000	0.5169	
120 Pentachloroethane	167	12.743	12.743	0.000	88	21266	0.5000	0.5064	
119 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	119721	0.5000	0.5012	
121 sec-Butylbenzene	105	12.877	12.877	0.000	94	147266	0.5000	0.4948	
122 1,3-Dichlorobenzene	146	12.975	12.975	0.000	98	66610	0.5000	0.5079	
123 4-Isopropyltoluene	119	12.981	12.981	0.000	97	129655	0.5000	0.5015	
* 124 1,4-Dichlorobenzene-d4	152	13.030	13.030	0.000	96	861870	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.048	13.048	0.000	95	68535	0.5000	0.5129	
126 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	98	54187	0.5000	0.5115	
127 Benzyl chloride	126	13.127	13.127	0.000	99	11182	0.5000	0.4772	
129 p-Diethylbenzene	119	13.182	13.182	0.000	91	79964	0.5000	0.5091	
130 n-Butylbenzene	92	13.274	13.274	0.000	97	69796	0.5000	0.5096	
131 1,2-Dichlorobenzene	146	13.310	13.310	0.000	98	62448	0.5000	0.5103	
134 1,2-Dibromo-3-Chloropropane	155	13.847	13.853	-0.006	85	3908	0.5000	0.4950	
135 1,3,5-Trichlorobenzene	180	13.975	13.975	0.000	97	56346	0.5000	0.5126	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	93	54078	0.5000	0.5338	
137 Hexachlorobutadiene	225	14.481	14.481	0.000	97	26381	0.5000	0.5304	
138 Naphthalene	128	14.578	14.578	0.000	97	94086	0.5000	0.5104	
139 1,2,3-Trichlorobenzene	180	14.718	14.718	0.000	95	47589	0.5000	0.5323	
140 2-Methylnaphthalene	142	15.340	15.340	0.000	93	71187	0.5000	0.5401	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_RV1_826_00031	Amount Added:	2.00	Units: uL	
MSV_RV4GAS826_00097	Amount Added:	2.00	Units: uL	
MSV_RV4_826_00035	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00013	Amount Added:	1.00	Units: uL	Run Reagent

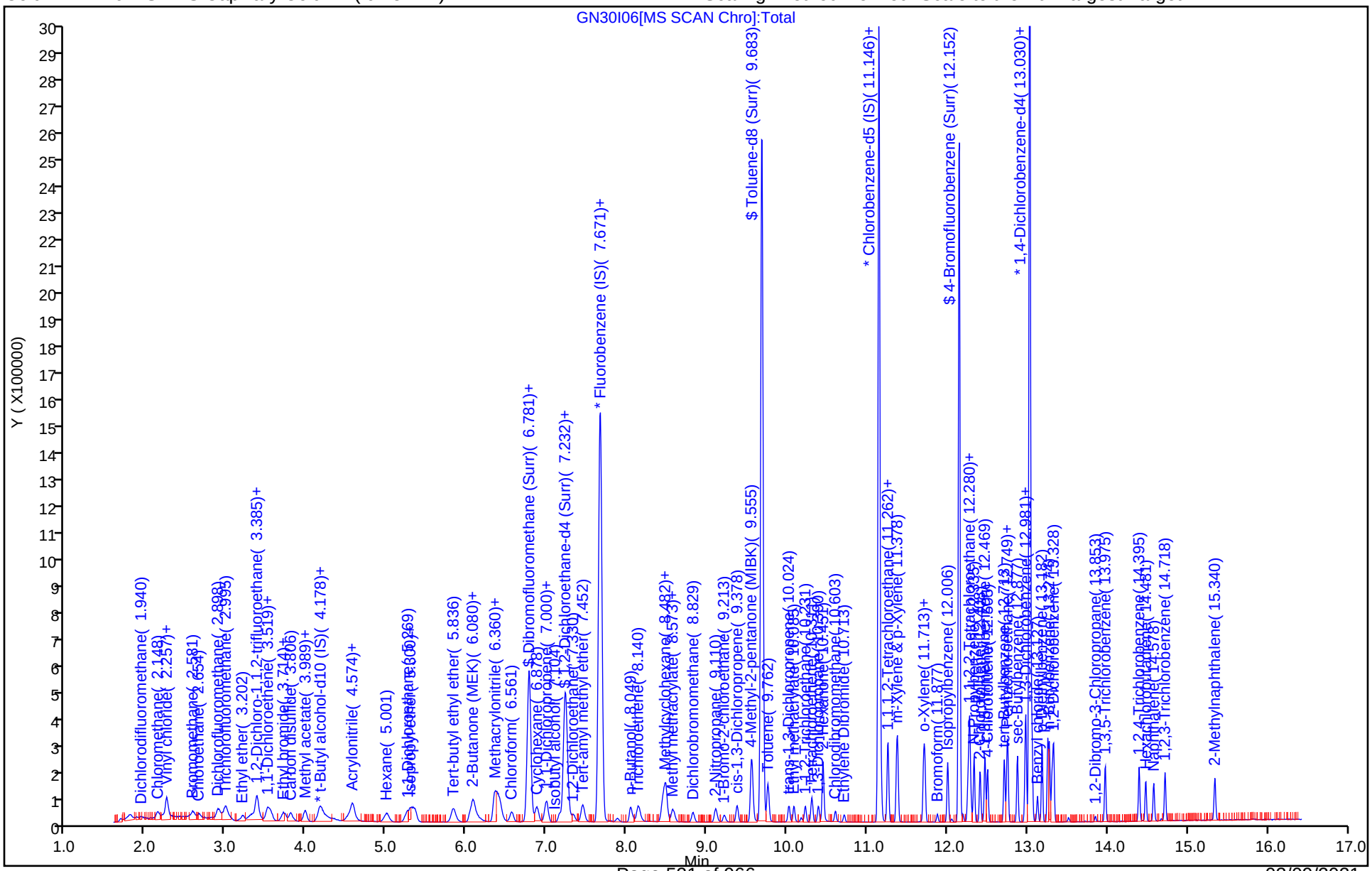
Report Date: 01-Dec-2020 18:57:57 Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D

Injection Date:	30-Nov-2020 14:41:30	Instrument ID:	16334	Operator ID:	DVV10203
Lims ID:	IC std2			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: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

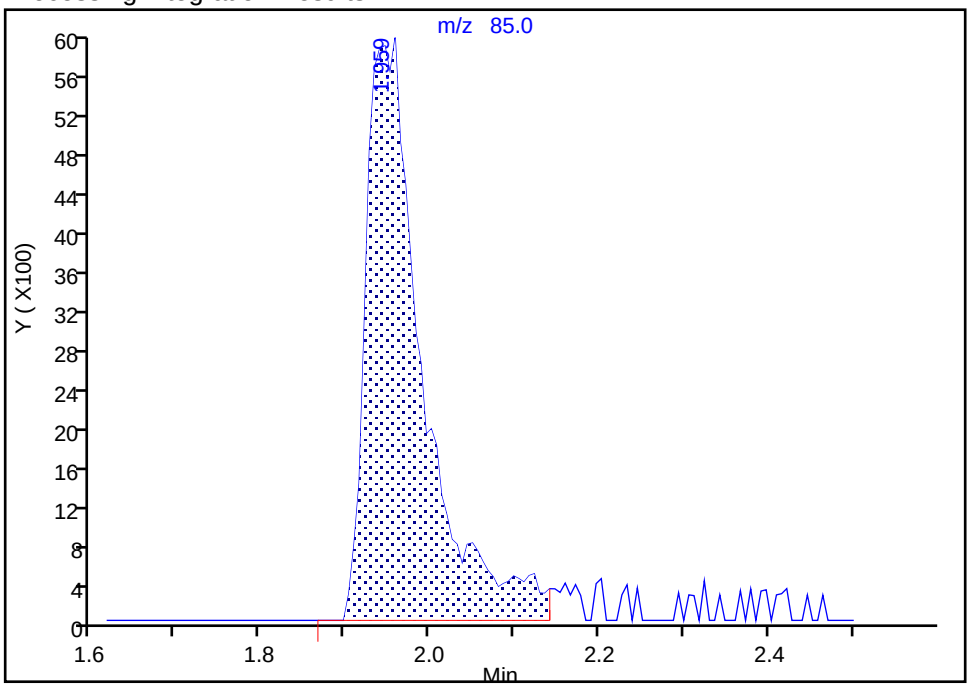
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D				
Injection Date:	30-Nov-2020 14:41:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

1 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

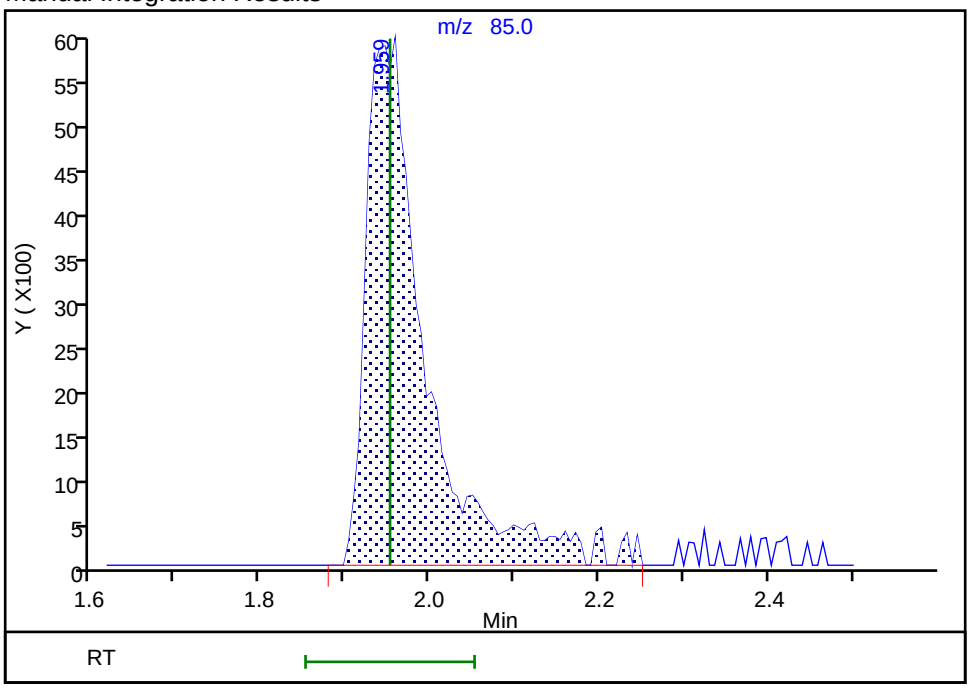
Processing Integration Results

RT: 1.96
Area: 27810
Amount: 0.491868
Amount Units: ug/l



Manual Integration Results

RT: 1.96
Area: 29137
Amount: 0.511905
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:53:12
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

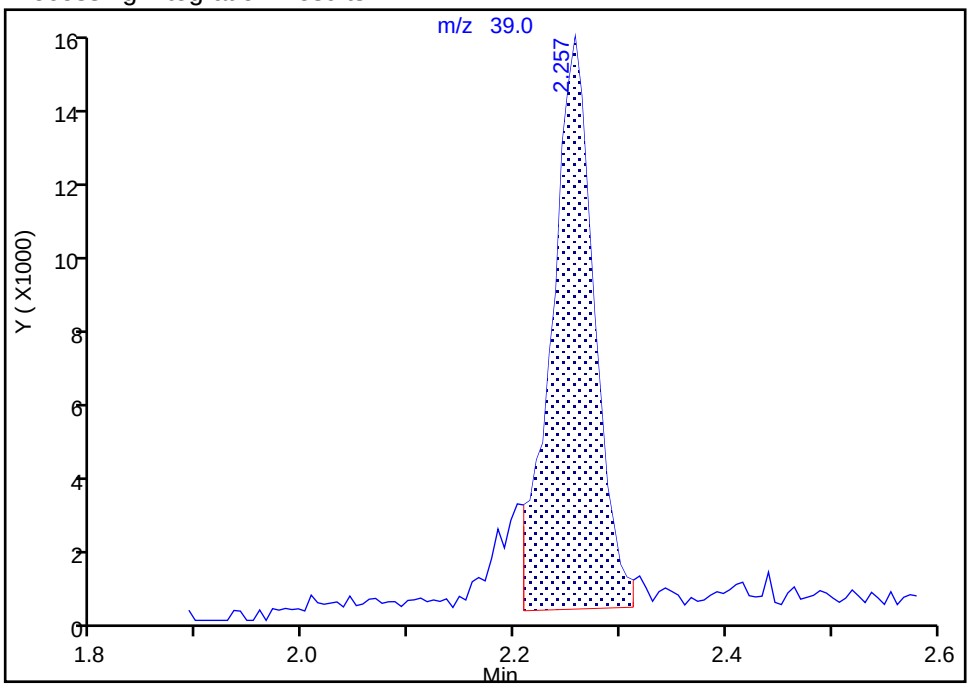
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D
Injection Date: 30-Nov-2020 14:41:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: DVV10203 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

6 Butadiene, CAS: 106-99-0

Signal: 1

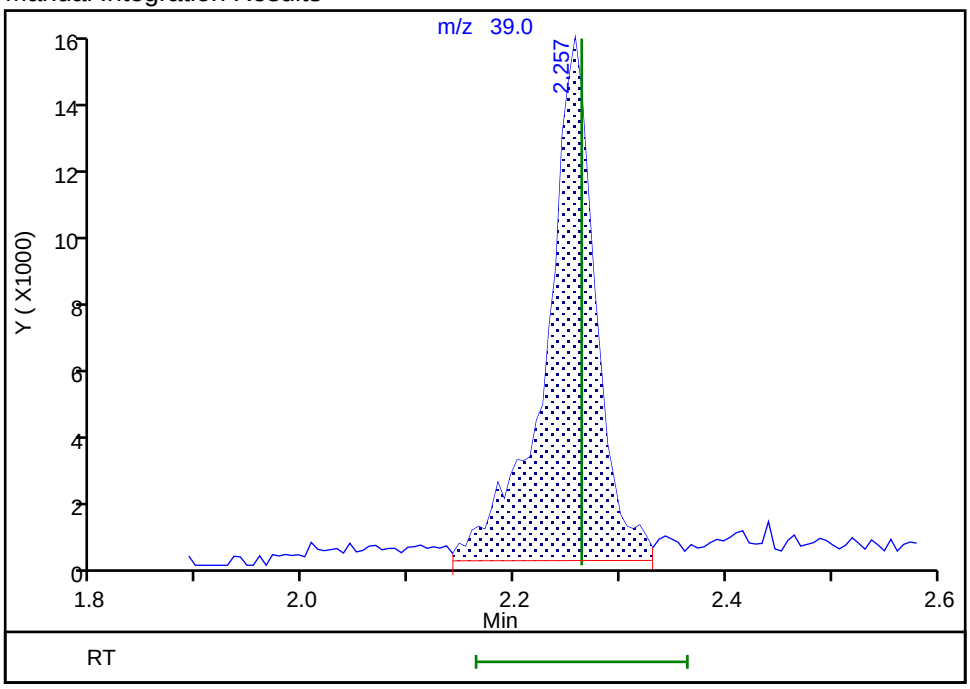
Processing Integration Results

RT: 2.26
Area: 43591
Amount: 0.531353
Amount Units: ug/l



Manual Integration Results

RT: 2.26
Area: 51097
Amount: 0.584513
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:53:23
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

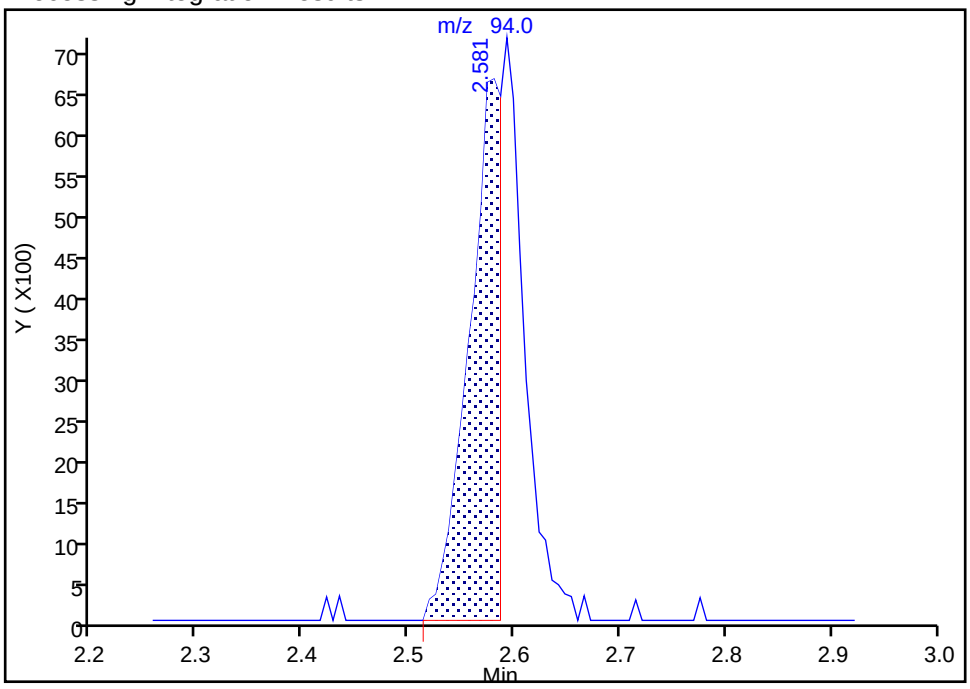
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D
Injection Date: 30-Nov-2020 14:41:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: DVV10203 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

9 Bromomethane, CAS: 74-83-9

Signal: 1

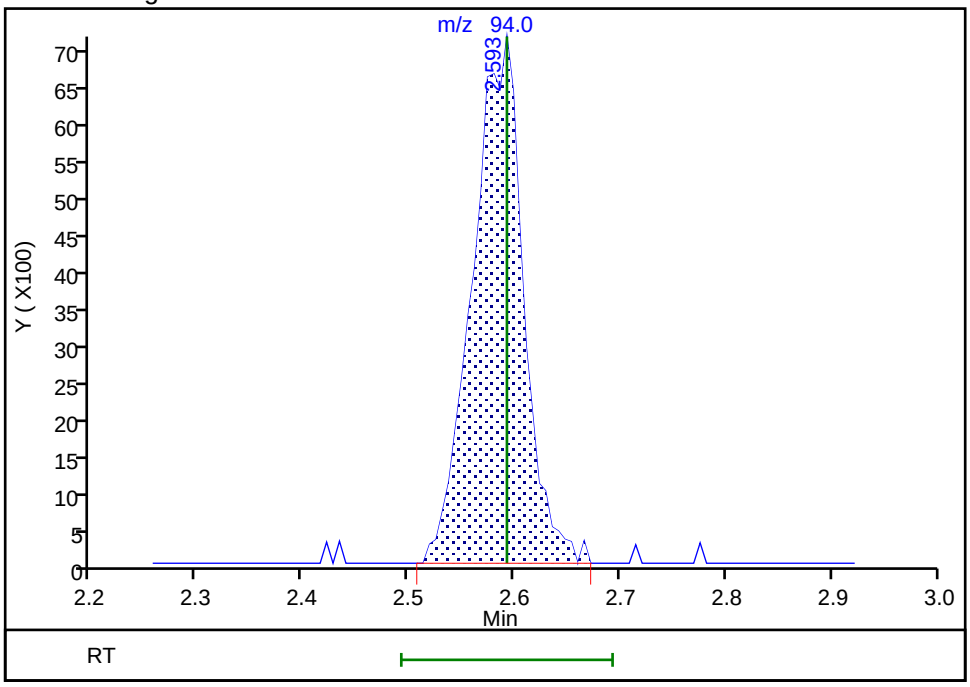
Processing Integration Results

RT: 2.58
Area: 14139
Amount: 0.329668
Amount Units: ug/l



Manual Integration Results

RT: 2.59
Area: 23952
Amount: 0.524202
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:53:33
Audit Action: Manually Integrated Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

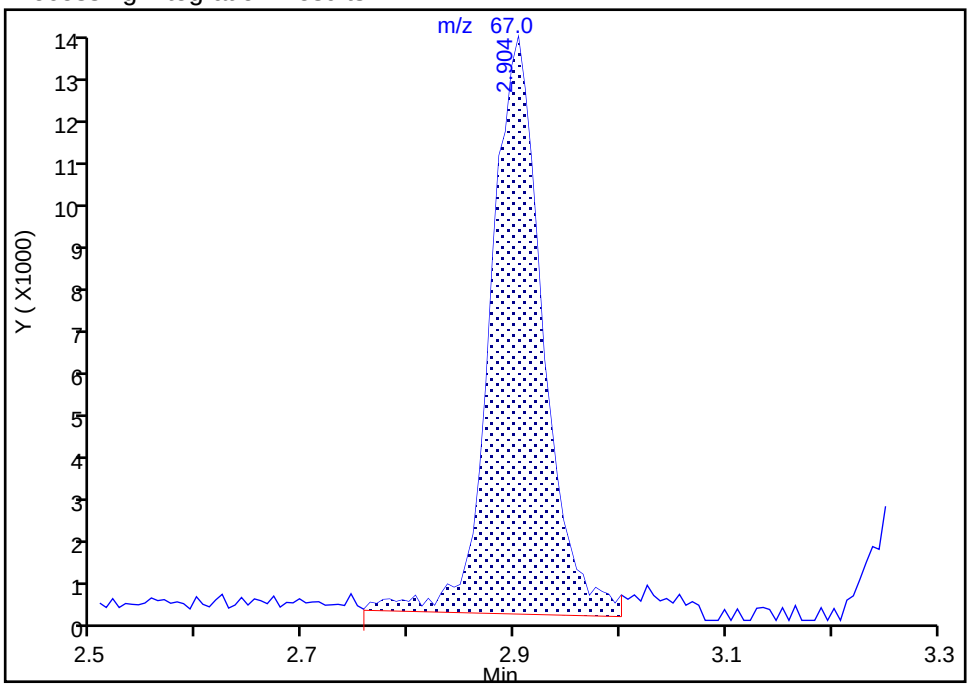
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D
Injection Date: 30-Nov-2020 14:41:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: DVV10203 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

11 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

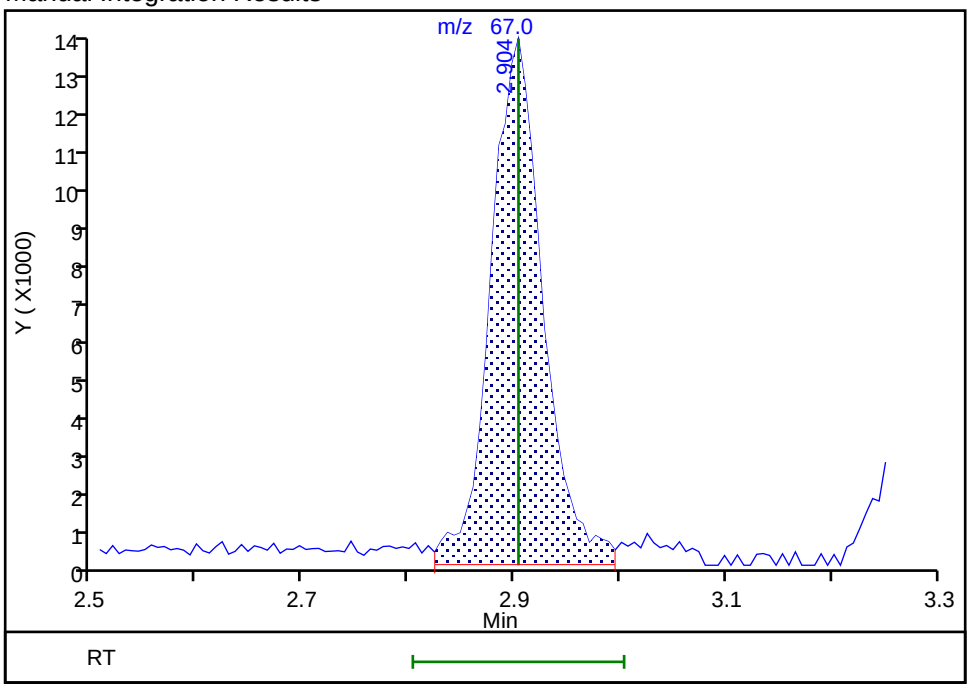
Processing Integration Results

RT: 2.90
Area: 46241
Amount: 0.521398
Amount Units: ug/l



Manual Integration Results

RT: 2.90
Area: 46525
Amount: 0.521740
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:53:45
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

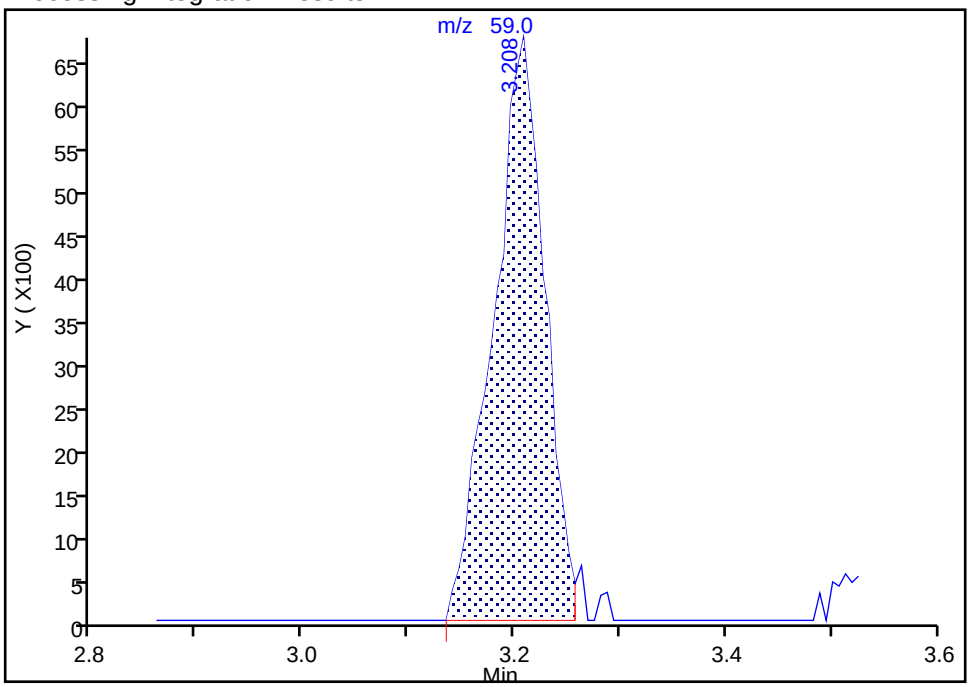
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D				
Injection Date:	30-Nov-2020 14:41:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

15 Ethyl ether, CAS: 60-29-7

Signal: 1

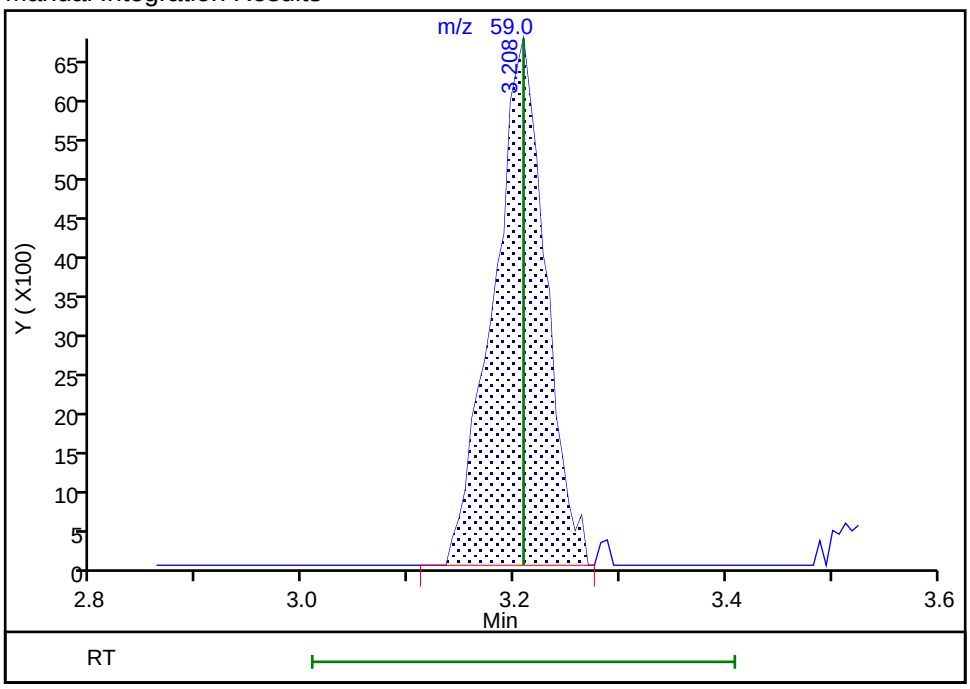
Processing Integration Results

RT: 3.21
Area: 22702
Amount: 0.541226
Amount Units: ug/l



Manual Integration Results

RT: 3.21
Area: 22931
Amount: 0.514803
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:53:52
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

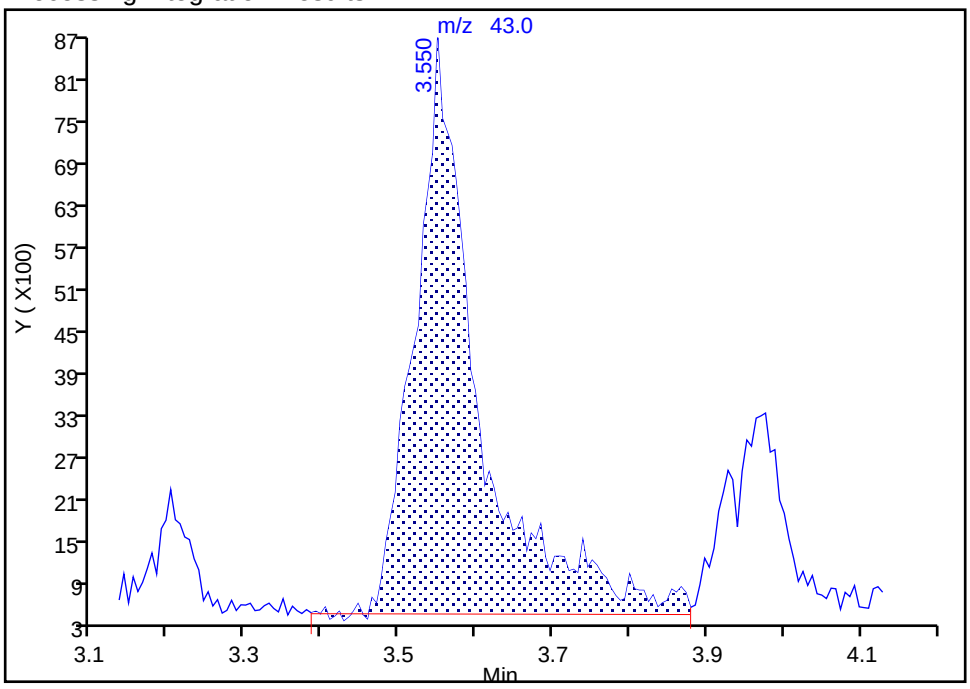
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D				
Injection Date:	30-Nov-2020 14:41:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Acetone, CAS: 67-64-1

Signal: 1

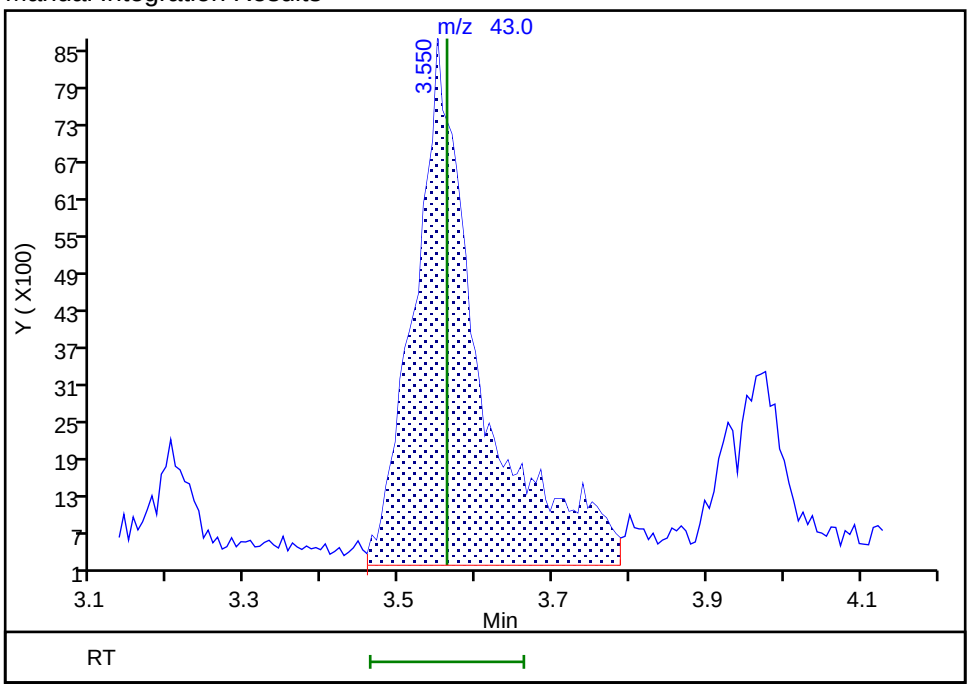
Processing Integration Results

RT: 3.55
Area: 46876
Amount: 5.077360
Amount Units: ug/l



Manual Integration Results

RT: 3.55
Area: 50222
Amount: 5.226580
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:54:03
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

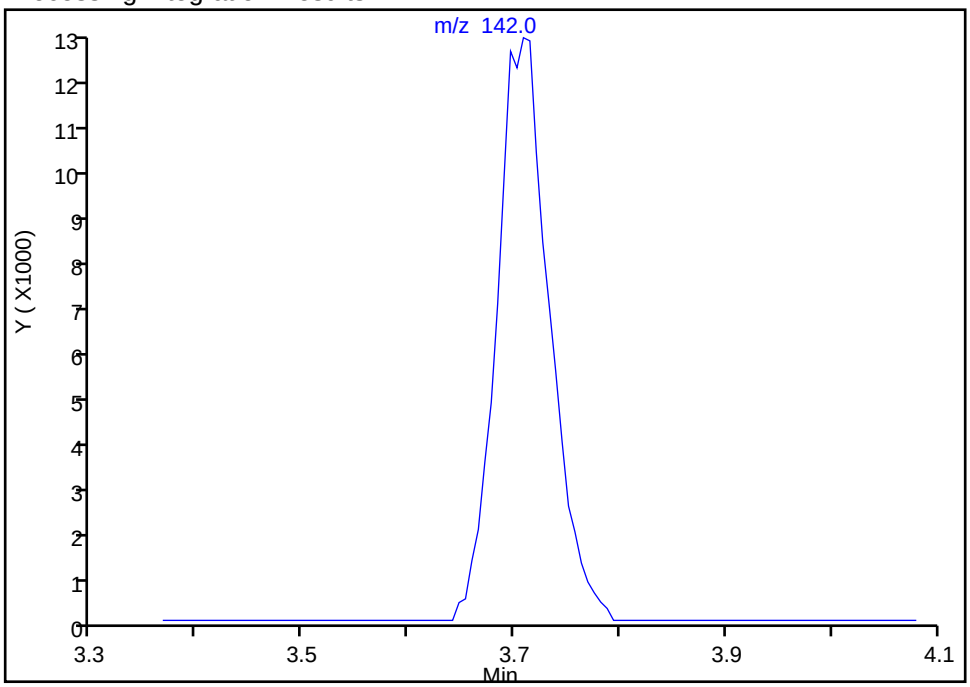
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D
Injection Date: 30-Nov-2020 14:41:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: DVV10203 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

22 Iodomethane, CAS: 74-88-4

Signal: 1

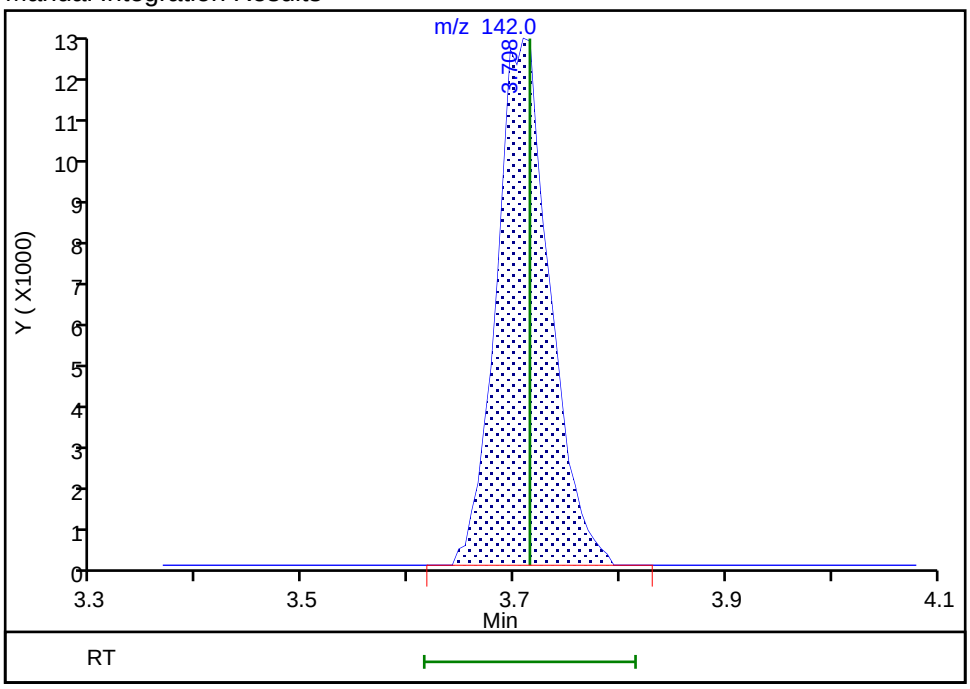
Not Detected
Expected RT: 3.71

Processing Integration Results



Manual Integration Results

RT: 3.71
Area: 43500
Amount: 0.510659
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:54:17
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

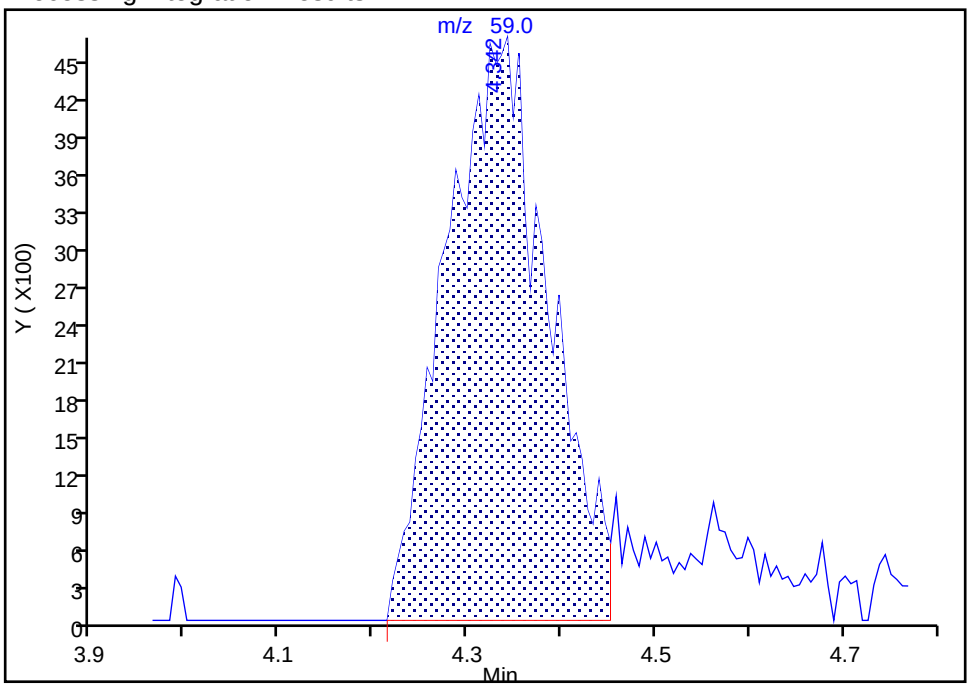
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D				
Injection Date:	30-Nov-2020 14:41:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

30 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

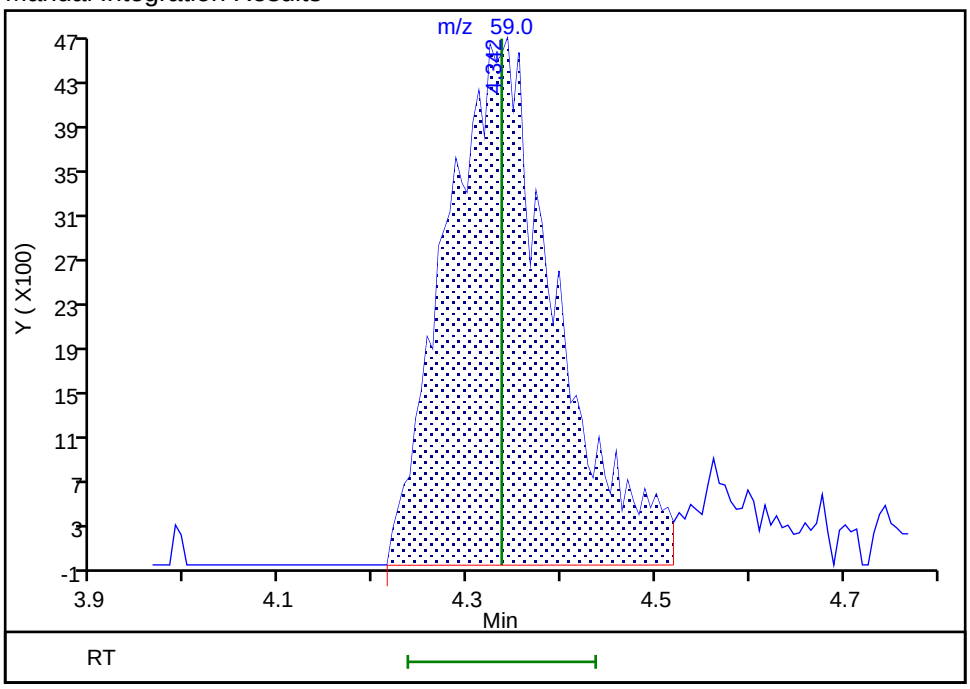
Processing Integration Results

RT: 4.34
Area: 34943
Amount: 10.111494
Amount Units: ug/l



Manual Integration Results

RT: 4.34
Area: 37272
Amount: 10.585071
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:54:40
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

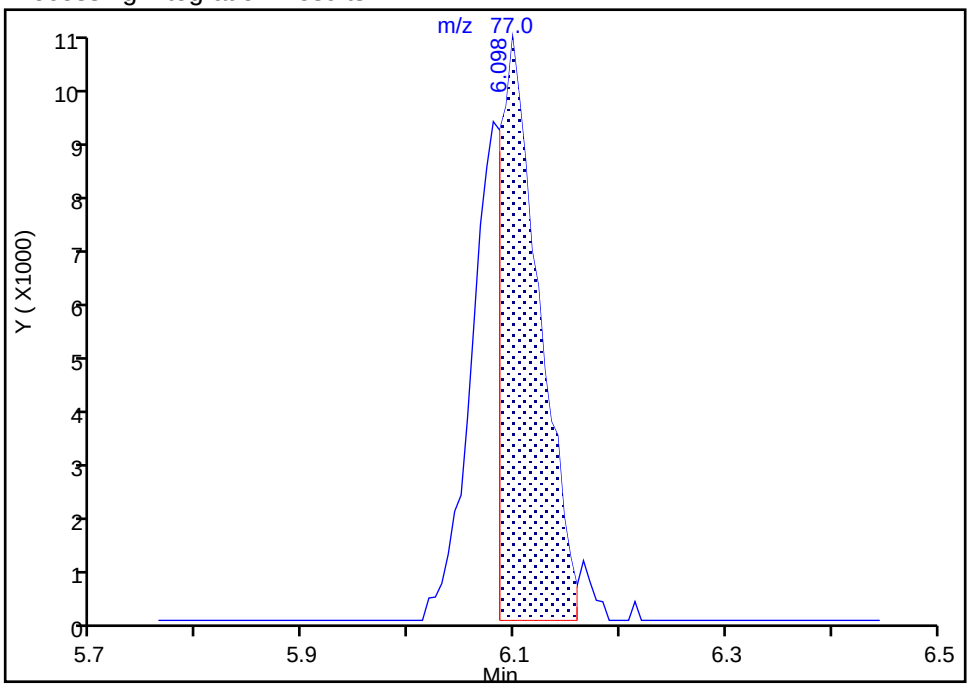
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D
Injection Date: 30-Nov-2020 14:41:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: DVV10203 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

42 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

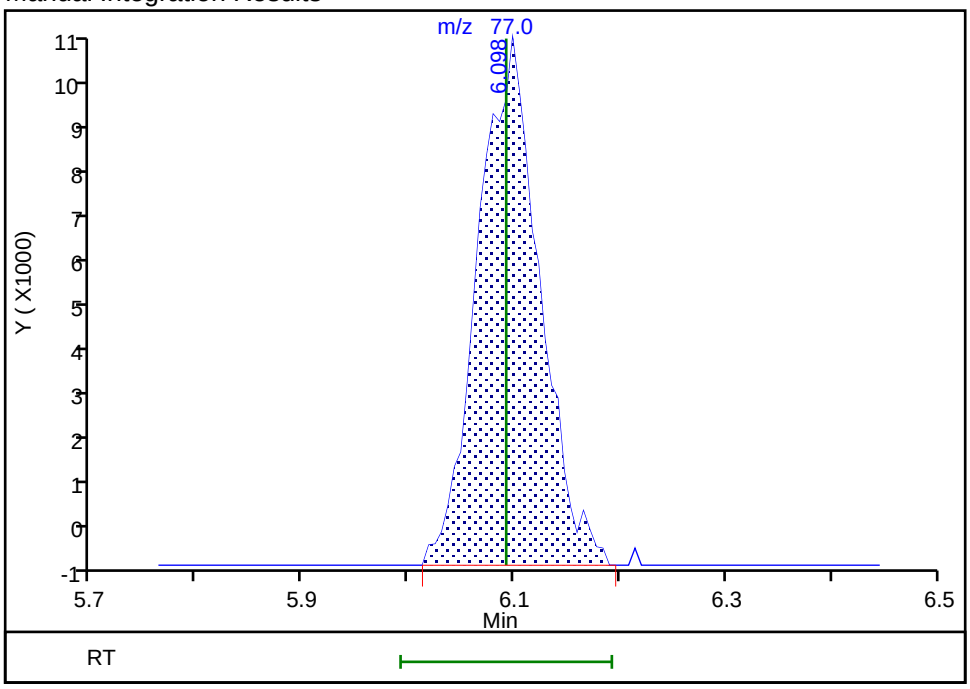
Processing Integration Results

RT: 6.10
Area: 26319
Amount: 0.397289
Amount Units: ug/l



Manual Integration Results

RT: 6.10
Area: 41487
Amount: 0.507611
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:54:54
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

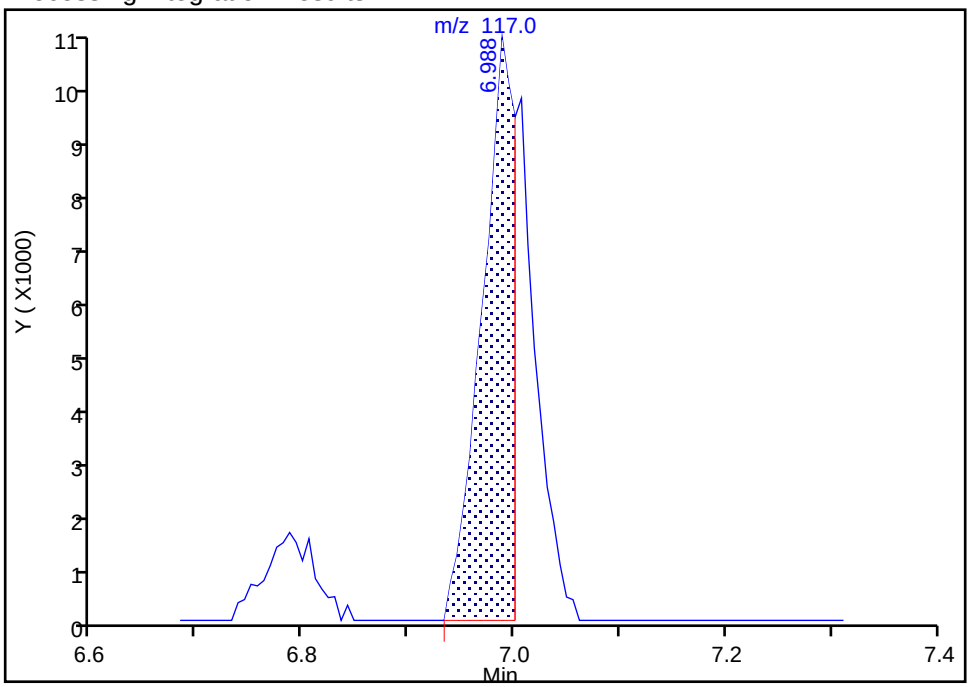
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D				
Injection Date:	30-Nov-2020 14:41:30	Instrument ID:	16334		
Lims ID:	IC std2				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

56 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

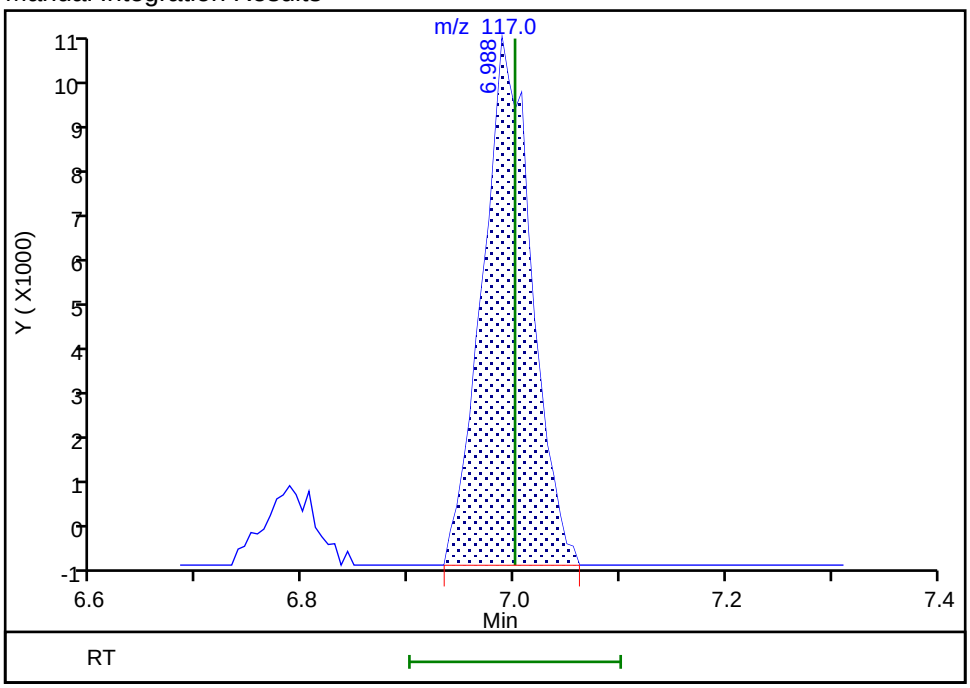
Processing Integration Results

RT: 6.99
Area: 23019
Amount: 0.365200
Amount Units: ug/l



Manual Integration Results

RT: 6.99
Area: 34456
Amount: 0.494529
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:55:06
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

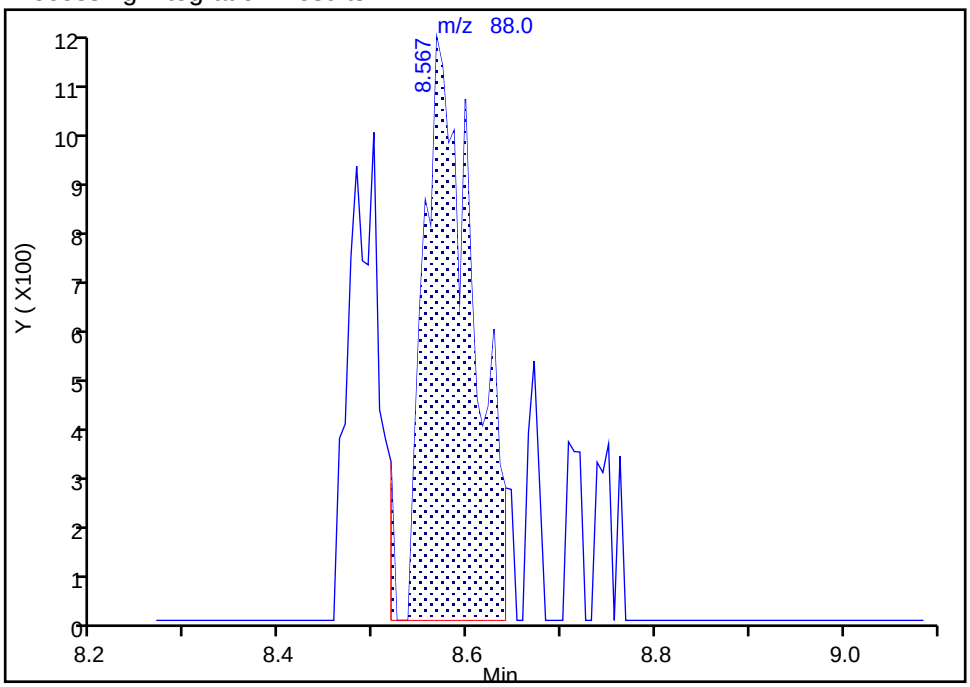
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D
Injection Date: 30-Nov-2020 14:41:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: DVV10203 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

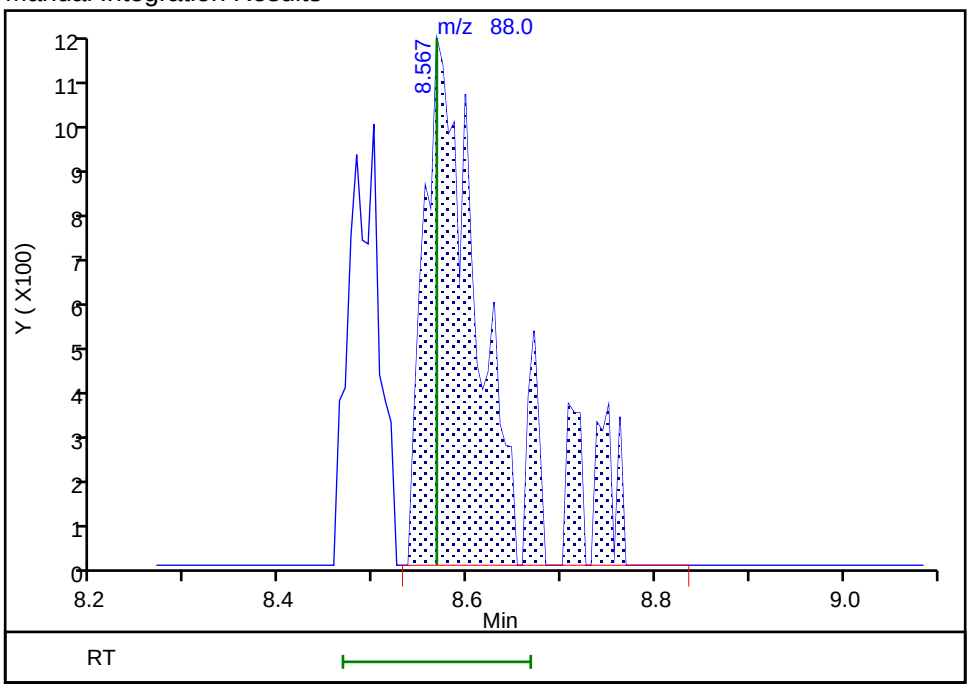
Processing Integration Results

RT: 8.57
Area: 4232
Amount: 19.816218
Amount Units: ug/l



Manual Integration Results

RT: 8.57
Area: 5456
Amount: 24.234851
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:55:21
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

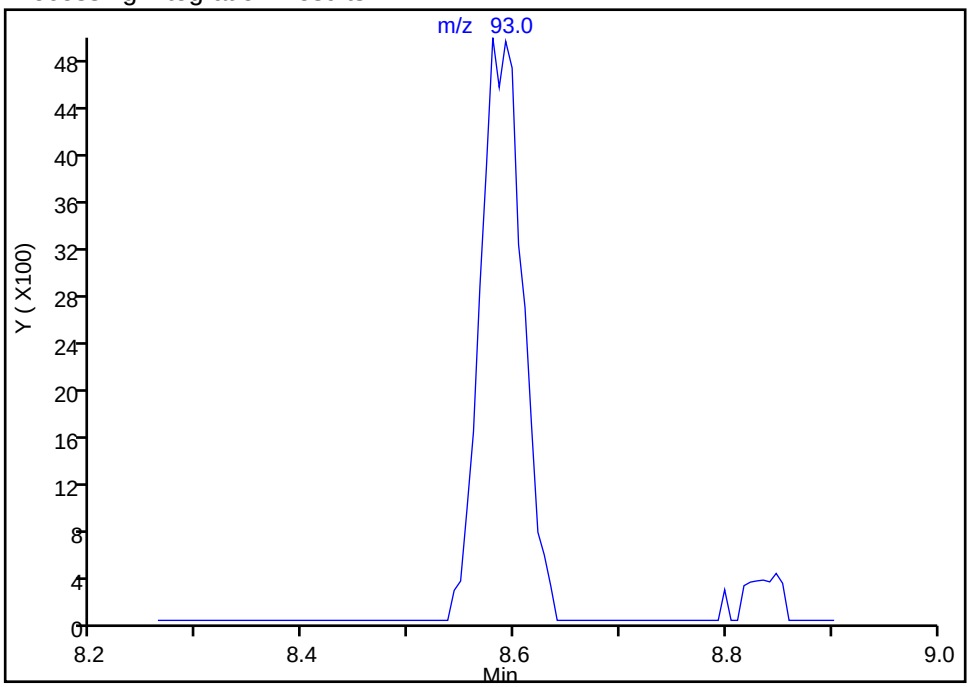
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I06.D
Injection Date: 30-Nov-2020 14:41:30 Instrument ID: 16334
Lims ID: IC std2
Client ID:
Operator ID: DVV10203 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

73 Dibromomethane, CAS: 74-95-3

Signal: 1

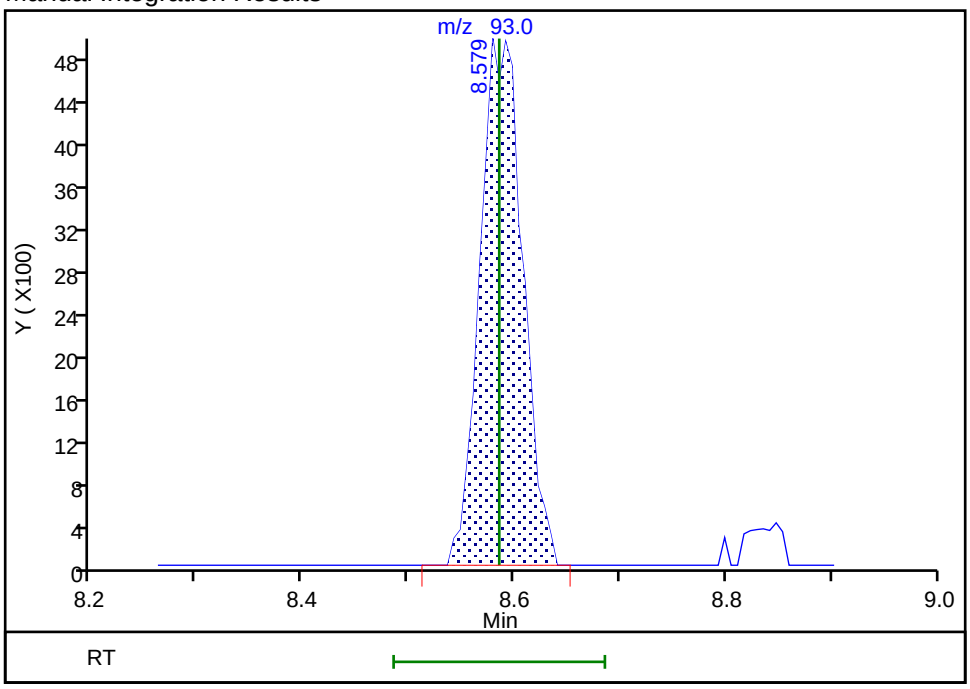
Not Detected
Expected RT: 8.59

Processing Integration Results



Manual Integration Results

RT: 8.58
Area: 13777
Amount: 0.499344
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:55:26
Audit Action: Manually Integrated Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D
Lims ID: IC std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 30-Nov-2020 15:03:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0016641-009
Misc. Info.: IC STD1
Operator ID: DVV10203 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Dec-2020 18:58:07 Calib Date: 30-Nov-2020 18:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1610

First Level Reviewer: virayd Date: 01-Dec-2020 12:00:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.940	1.953	-0.013	86	10440	0.2000	0.1821	
5 Chloromethane	50	2.129	2.148	-0.019	99	17041	0.2000	0.2203	
6 Butadiene	39	2.245	2.264	-0.019	93	21243	0.2000	0.2413	M
7 Vinyl chloride	62	2.251	2.270	-0.019	86	13930	0.2000	0.2110	M
9 Bromomethane	94	2.581	2.593	-0.012	89	10477	0.2000	0.2277	
10 Chloroethane	64	2.654	2.666	-0.012	97	8907	0.2000	0.2223	
11 Dichlorofluoromethane	67	2.898	2.904	-0.006	96	22123	0.2000	0.2464	M
13 Trichlorofluoromethane	101	2.959	2.977	-0.019	95	14649	0.2000	0.1928	M
15 Ethyl ether	59	3.202	3.208	-0.006	97	8950	0.2000	0.1995	M
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.294	3.300	-0.006	89	13355	0.2000	0.2150	
18 Acrolein	56	3.373	3.385	-0.012	99	71856	10.0	10.2	M
19 1,1-Dichloroethene	96	3.507	3.519	-0.012	96	9428	0.2000	0.2053	
21 112TCTFE	101	3.544	3.556	-0.012	79	6407	0.2000	0.1427	
20 Acetone	43	3.538	3.562	-0.024	98	23541	2.00	2.60	M
22 Iodomethane	142	3.696	3.714	-0.018	99	16625	0.2000	0.1938	
23 Isopropyl alcohol	45	3.721	3.727	-0.006	51	7582	4.00	4.34	
24 Ethyl bromide	108	3.721	3.739	-0.018	95	7681	0.2000	0.1920	
25 Carbon disulfide	76	3.800	3.812	-0.012	99	33137	0.2000	0.1957	
26 Methyl acetate	43	3.958	3.971	-0.012	21	6751	0.2000	0.2460	M
27 3-Chloro-1-propene	41	3.977	3.989	-0.012	92	18885	0.2000	0.2055	M
28 Methylene Chloride	84	4.159	4.178	-0.019	92	10502	0.2000	0.1996	M
* 29 t-Butyl alcohol-d10 (IS)	65	4.190	4.214	-0.024	0	184731	50.0	50.0	
30 2-Methyl-2-propanol	59	4.324	4.336	-0.012	57	12558	4.00	3.78	M
31 Acrylonitrile	53	4.507	4.525	-0.018	87	10931	1.00	0.9322	
32 Methyl tert-butyl ether	73	4.556	4.580	-0.024	88	29258	0.2000	0.2004	
33 trans-1,2-Dichloroethene	96	4.574	4.586	-0.012	97	10478	0.2000	0.1982	
34 Hexane	57	5.007	5.007	0.000	91	12643	0.2000	0.1640	
36 1,1-Dichloroethane	63	5.232	5.251	-0.019	95	18828	0.2000	0.1919	
37 Isopropyl ether	45	5.300	5.306	-0.006	95	39957	0.2000	0.2002	
38 2-Chloro-1,3-butadiene	53	5.342	5.360	-0.018	90	17821	0.2000	0.1997	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.824	5.836	-0.012	99	36262	0.2000	0.1992	
40 2-Butanone (MEK)	43	6.043	6.049	-0.006	100	34375	2.00	2.05	
41 cis-1,2-Dichloroethene	96	6.074	6.086	-0.012	85	11304	0.2000	0.1904	
42 2,2-Dichloropropane	77	6.080	6.092	-0.012	65	16476	0.2000	0.2002	M
44 Propionitrile	54	6.135	6.147	-0.012	97	14908	4.00	3.58	
S 49 1,2-Dichloroethene, Total	100				0			0.3886	
46 Methacrylonitrile	67	6.354	6.360	-0.006	94	32580	2.00	2.11	M
48 Chlorobromomethane	128	6.409	6.409	0.000	85	5366	0.2000	0.2028	
47 Tetrahydrofuran	71	6.415	6.409	0.006	82	8871	2.00	2.04	
50 Chloroform	83	6.555	6.561	-0.006	93	18700	0.2000	0.1978	
$ 52 Dibromofluoromethane (Surr)	113	6.769	6.781	-0.012	94	526196	10.0	9.86	
51 1,1,1-Trichloroethane	97	6.793	6.787	0.006	12	16224	0.2000	0.2005	M
53 Cyclohexane	56	6.866	6.878	-0.012	92	15080	0.2000	0.1621	M
56 Carbon tetrachloride	117	6.994	7.000	-0.006	94	13772	0.2000	0.1963	M
55 1,1-Dichloropropene	75	7.000	7.000	0.000	90	15173	0.2000	0.1995	
57 Isobutyl alcohol	41	7.165	7.165	0.000	85	14998	10.0	12.0	M
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.220	7.232	-0.012	0	112511	10.0	9.91	
59 Benzene	78	7.250	7.263	-0.013	95	44170	0.2000	0.1971	
60 1,2-Dichloroethane	62	7.330	7.336	-0.006	95	14128	0.2000	0.2254	
62 Tert-amyl methyl ether	73	7.445	7.458	-0.013	98	31976	0.2000	0.1993	
* 63 Fluorobenzene (IS)	96	7.665	7.671	-0.006	98	2204755	10.0	10.0	
64 n-Heptane	43	7.671	7.677	-0.006	36	14986	0.2000	0.1723	
65 n-Butanol	56	8.049	8.049	0.000	89	26057	20.0	21.8	
67 Trichloroethene	95	8.140	8.147	-0.007	73	11723	0.2000	0.2048	M
68 Methylcyclohexane	83	8.451	8.451	0.000	92	15769	0.2000	0.1774	
69 1,2-Dichloropropane	63	8.482	8.482	0.000	89	12189	0.2000	0.2033	
70 2-ethoxy-2-methyl butane	87	8.488	8.488	0.000	91	17353	0.2000	0.1979	
72 1,4-Dioxane	88	8.567	8.567	0.000	36	1248	10.0	5.88	M
71 Methyl methacrylate	69	8.561	8.567	-0.006	94	6248	0.2000	0.1987	M
73 Dibromomethane	93	8.579	8.585	-0.006	97	5716	0.2000	0.2057	
75 Dichlorobromomethane	83	8.817	8.823	-0.006	98	13698	0.2000	0.1970	
76 2-Nitropropane	41	9.110	9.110	0.000	96	18191	2.00	2.04	
79 1-Bromo-2-chloroethane	63	9.213	9.219	-0.006	97	12526	0.2000	0.1949	
80 cis-1,3-Dichloropropene	75	9.372	9.378	-0.006	94	17452	0.2000	0.1934	
81 4-Methyl-2-pentanone (MIBK)	43	9.561	9.561	0.000	98	86421	2.00	2.00	
$ 82 Toluene-d8 (Surr)	98	9.683	9.689	-0.006	94	2122568	10.0	10.1	
83 Toluene	92	9.762	9.762	0.000	97	27572	0.2000	0.2016	
84 trans-1,3-Dichloropropene	75	10.024	10.024	0.000	94	14156	0.2000	0.1917	
S 87 1,3-Dichloropropene, Total	100				0			0.3851	
85 Ethyl methacrylate	69	10.091	10.085	0.006	88	13470	0.2000	0.2030	
86 1,1,2-Trichloroethane	97	10.225	10.231	-0.006	87	7932	0.2000	0.1988	
88 Tetrachloroethene	166	10.311	10.311	0.000	95	11458	0.2000	0.1931	
89 1,3-Dichloropropane	76	10.396	10.396	0.000	91	14652	0.2000	0.2036	
91 2-Hexanone	43	10.445	10.451	-0.006	98	62169	2.00	2.00	
93 Chlorodibromomethane	129	10.603	10.603	0.000	89	8808	0.2000	0.1861	
94 Ethylene Dibromide	107	10.713	10.713	0.000	99	7804	0.2000	0.1992	
* 95 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	87	1578236	10.0	10.0	
96 1-Chlorohexane	91	11.158	11.158	0.000	91	18485	0.2000	0.2250	
97 Chlorobenzene	112	11.176	11.176	0.000	96	30598	0.2000	0.2008	
S 101 Xylenes, Total	106				0			0.5945	
98 1,1,1,2-Tetrachloroethane	131	11.256	11.256	0.000	95	10378	0.2000	0.1917	
99 Ethylbenzene	91	11.262	11.262	0.000	99	56042	0.2000	0.2074	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 m-Xylene & p-Xylene	106	11.371	11.378	-0.007	96	39788	0.4000	0.3906	
102 o-Xylene	106	11.707	11.707	0.000	96	20593	0.2000	0.2039	
103 Styrene	104	11.719	11.719	0.000	95	34193	0.2000	0.1987	
104 Bromoform	173	11.877	11.877	0.000	94	4668	0.2000	0.1690	
105 Isopropylbenzene	105	12.006	12.006	0.000	96	53210	0.2000	0.2014	
$ 108 4-Bromofluorobenzene (Surr)	95	12.146	12.152	-0.006	89	812877	10.0	10.1	
109 1,1,2,2-Tetrachloroethane	83	12.255	12.255	0.000	93	10124	0.2000	0.1878	
110 Bromobenzene	156	12.268	12.268	0.000	95	12894	0.2000	0.1992	
111 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	95	23186	2.00	1.73	
112 1,2,3-Trichloropropane	110	12.298	12.304	-0.006	78	2519	0.2000	0.1833	
113 N-Propylbenzene	91	12.335	12.335	0.000	98	65333	0.2000	0.2024	
114 2-Chlorotoluene	126	12.408	12.414	-0.006	96	12758	0.2000	0.2010	
115 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	93	43880	0.2000	0.1927	
116 4-Chlorotoluene	126	12.505	12.505	0.000	97	12838	0.2000	0.1940	
118 tert-Butylbenzene	134	12.713	12.713	0.000	94	9709	0.2000	0.1997	
120 Pentachloroethane	167	12.743	12.743	0.000	82	7836	0.2000	0.1875	
119 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	47673	0.2000	0.2005	
121 sec-Butylbenzene	105	12.877	12.877	0.000	94	59733	0.2000	0.2017	
122 1,3-Dichlorobenzene	146	12.975	12.975	0.000	98	26068	0.2000	0.1997	
123 4-Isopropyltoluene	119	12.981	12.981	0.000	97	50640	0.2000	0.1968	
* 124 1,4-Dichlorobenzene-d4	152	13.030	13.030	0.000	96	857732	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.042	13.048	-0.006	93	26967	0.2000	0.2028	
126 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	97	22584	0.2000	0.2142	
127 Benzyl chloride	126	13.127	13.127	0.000	98	4530	0.2000	0.1943	
129 p-Diethylbenzene	119	13.182	13.182	0.000	91	30785	0.2000	0.1970	
130 n-Butylbenzene	92	13.274	13.274	0.000	97	27112	0.2000	0.1989	
131 1,2-Dichlorobenzene	146	13.310	13.310	0.000	97	24056	0.2000	0.1975	
134 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	84	1486	0.2000	0.1891	
135 1,3,5-Trichlorobenzene	180	13.975	13.975	0.000	97	22309	0.2000	0.2039	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	19946	0.2000	0.1978	
137 Hexachlorobutadiene	225	14.481	14.481	0.000	95	10231	0.2000	0.2067	
138 Naphthalene	128	14.578	14.578	0.000	97	37571	0.2000	0.2048	
139 1,2,3-Trichlorobenzene	180	14.718	14.718	0.000	96	18105	0.2000	0.2035	
140 2-Methylnaphthalene	142	15.340	15.340	0.000	91	27463	0.2000	0.2094	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00031	Amount Added:	2.00	Units: uL	
MSV_RV4GAS826_00097	Amount Added:	2.00	Units: uL	
MSV_RV4_826_00035	Amount Added:	2.00	Units: uL	
MSV_29_826ISS_00013	Amount Added:	1.00	Units: uL	Run Reagent

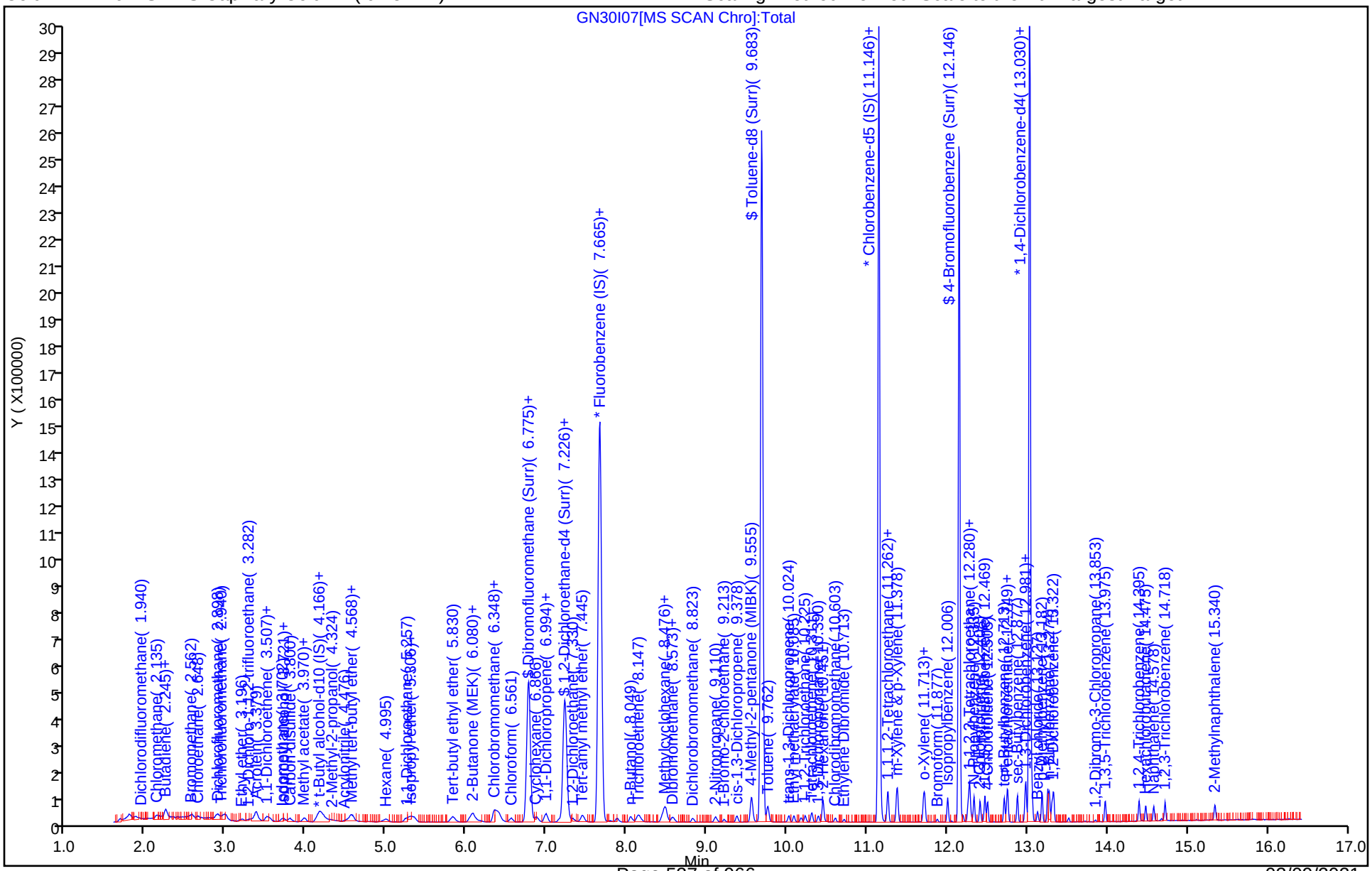
Report Date: 01-Dec-2020 18:58:09 Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D

Injection Date:	30-Nov-2020 15:03:30	Instrument ID:	16334	Operator ID:	DVV10203
Lims ID:	IC std1			Worklist Smp#:	9
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
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: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

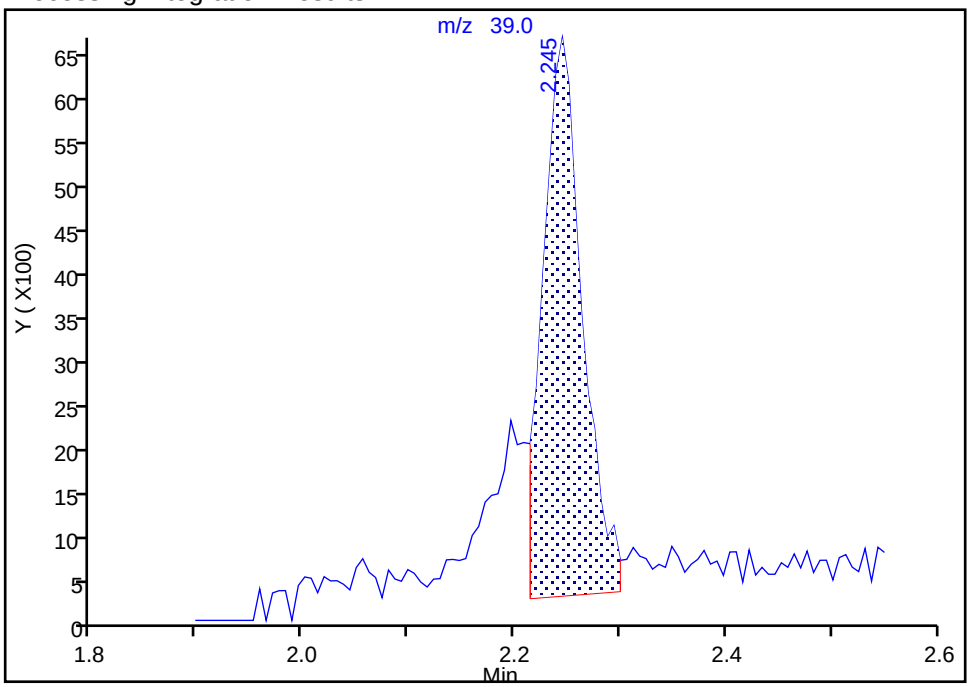
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D				
Injection Date:	30-Nov-2020 15:03:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

6 Butadiene, CAS: 106-99-0

Signal: 1

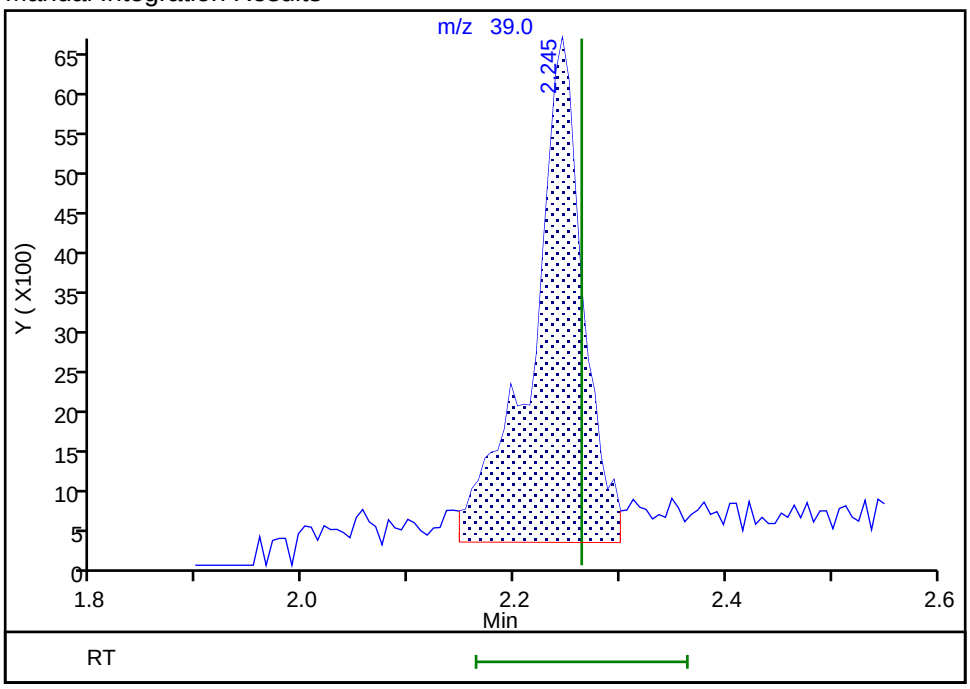
Processing Integration Results

RT: 2.25
Area: 16681
Amount: 0.196763
Amount Units: ug/l



Manual Integration Results

RT: 2.25
Area: 21243
Amount: 0.241300
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:56:19

Audit Action: Manually Integrated Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

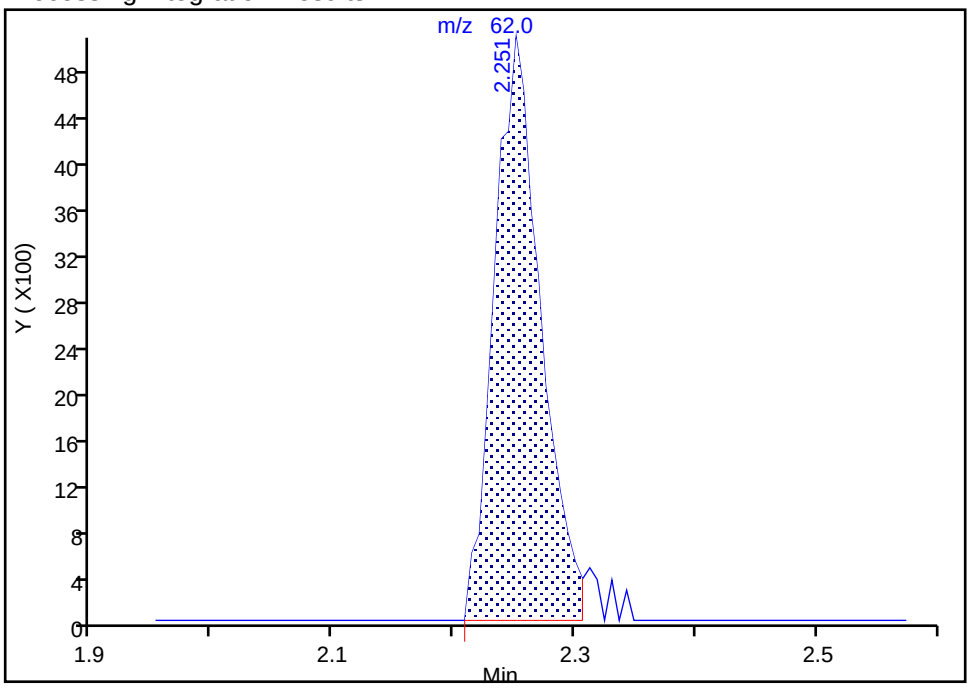
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D
Injection Date: 30-Nov-2020 15:03:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: DVV10203 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

7 Vinyl chloride, CAS: 75-01-4

Signal: 1

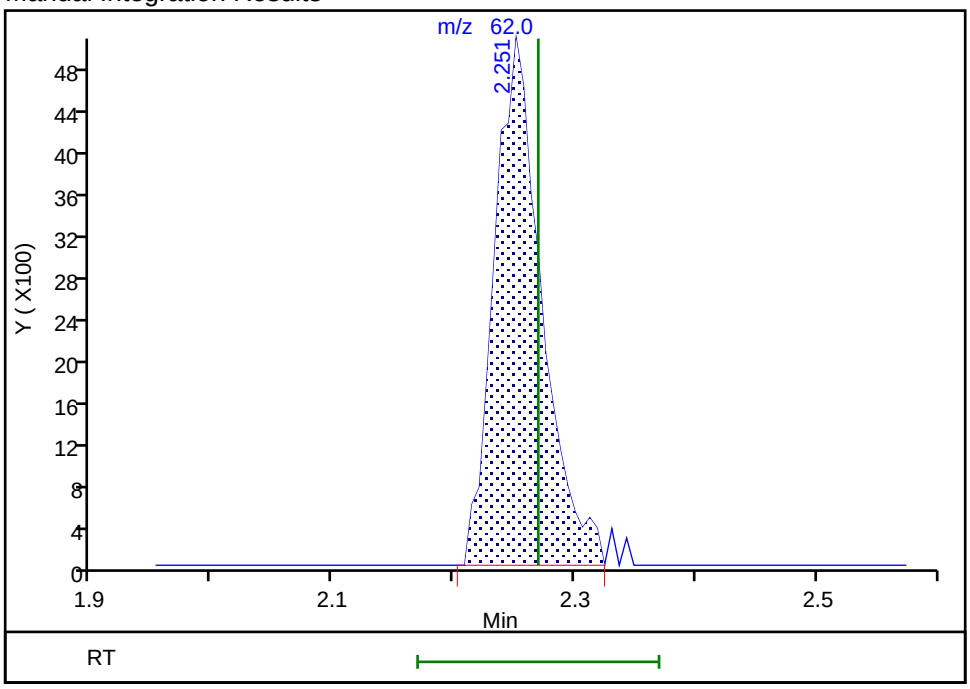
Processing Integration Results

RT: 2.25
Area: 13633
Amount: 0.207129
Amount Units: ug/l



Manual Integration Results

RT: 2.25
Area: 13930
Amount: 0.210962
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:57:02
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

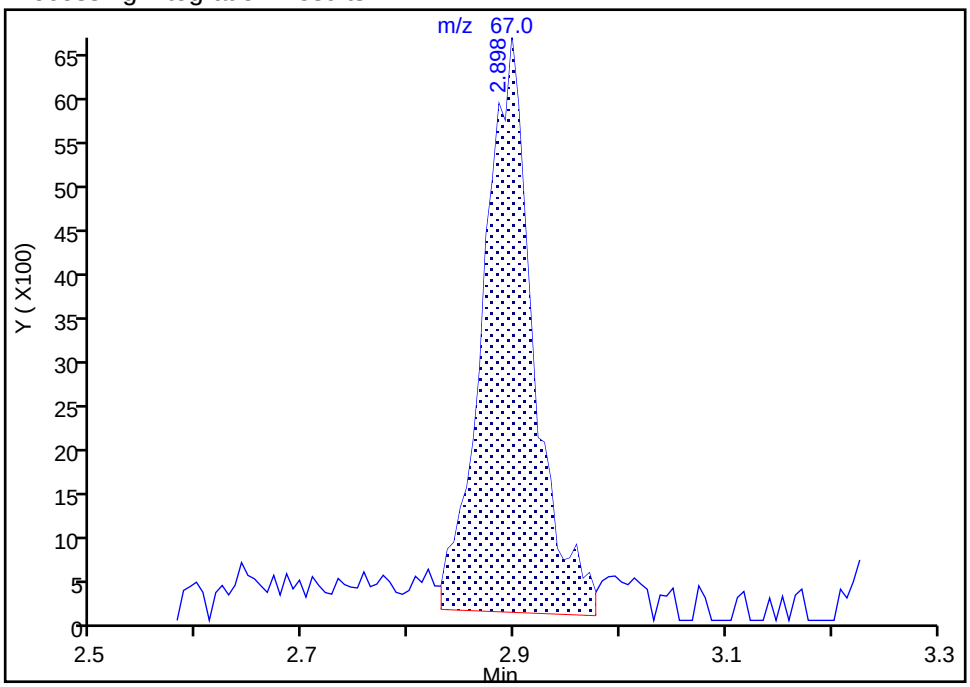
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D				
Injection Date:	30-Nov-2020 15:03:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

11 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

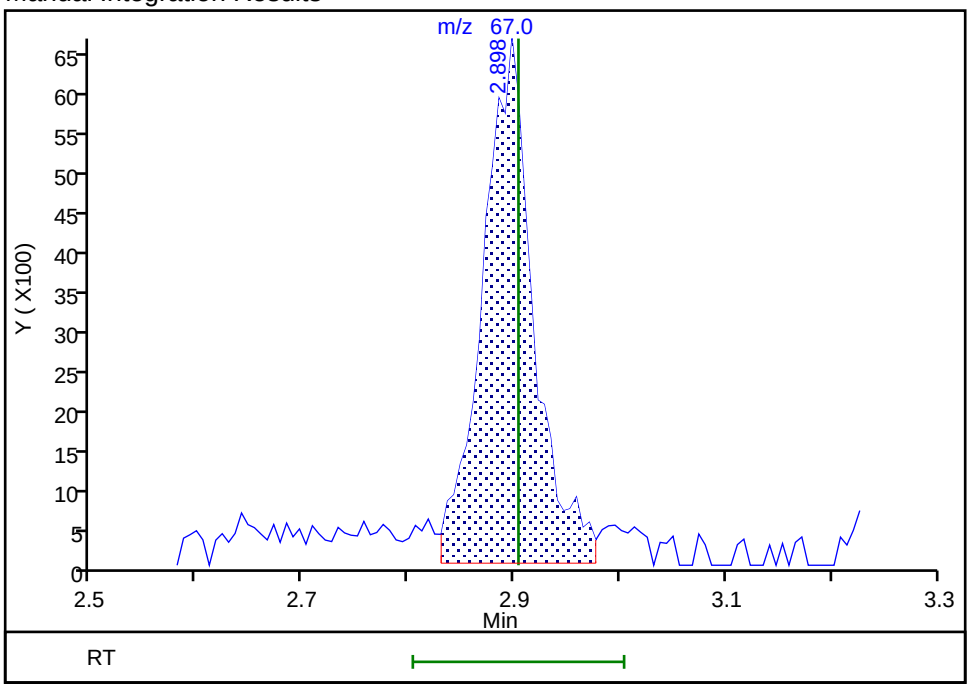
Processing Integration Results

RT: 2.90
Area: 21552
Amount: 0.241088
Amount Units: ug/l



Manual Integration Results

RT: 2.90
Area: 22123
Amount: 0.246351
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:57:16
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

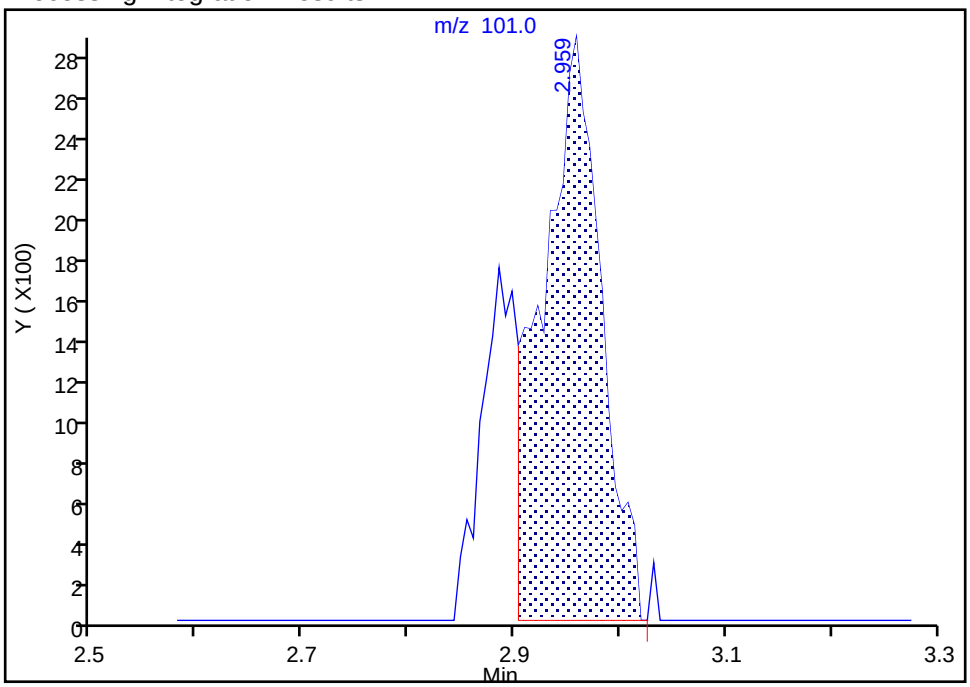
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D				
Injection Date:	30-Nov-2020 15:03:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

13 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

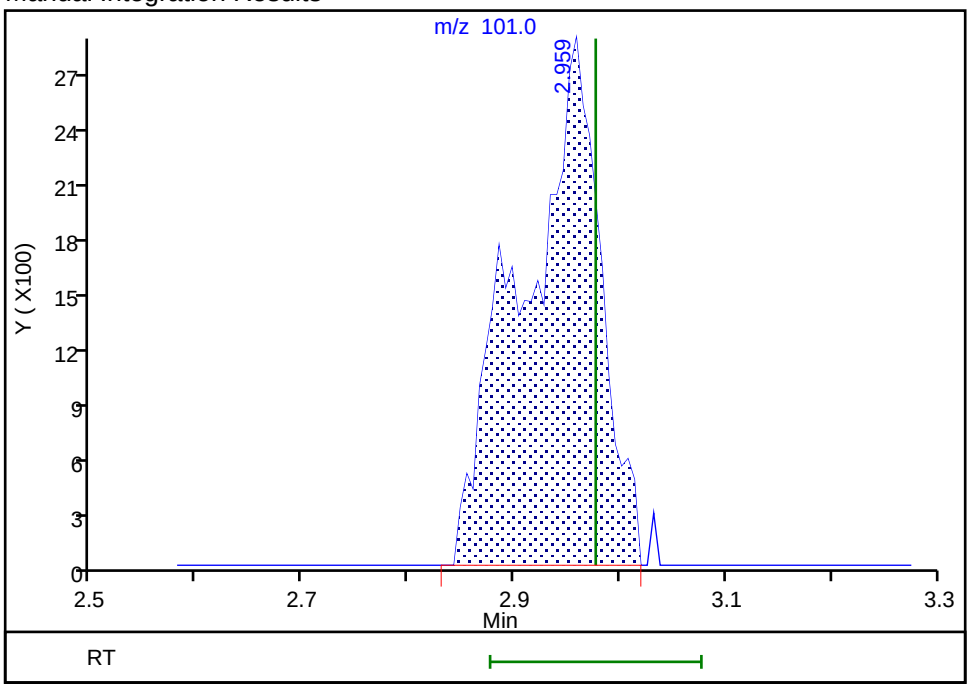
Processing Integration Results

RT: 2.96
Area: 11144
Amount: 0.151648
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 14649
Amount: 0.192776
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:57:22
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

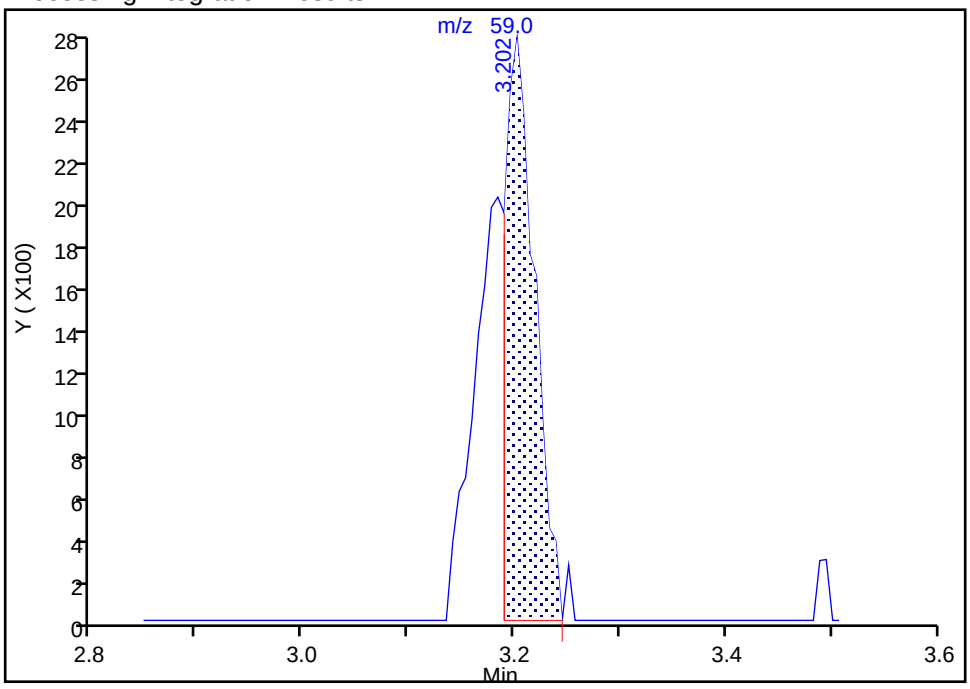
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D				
Injection Date:	30-Nov-2020 15:03:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

15 Ethyl ether, CAS: 60-29-7

Signal: 1

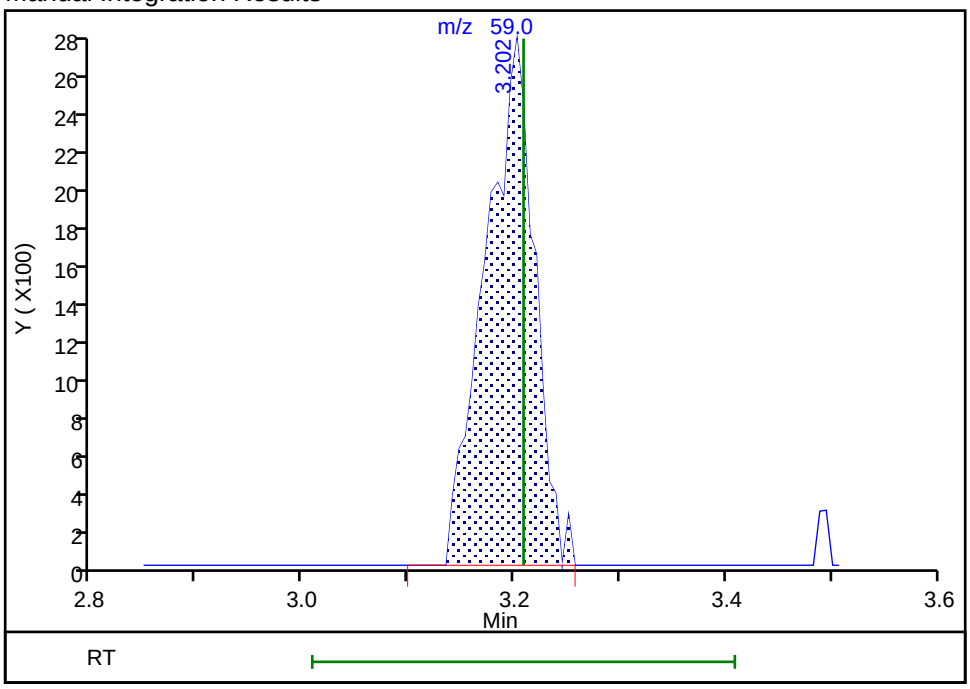
Processing Integration Results

RT: 3.20
Area: 5379
Amount: 0.127140
Amount Units: ug/l



Manual Integration Results

RT: 3.20
Area: 8950
Amount: 0.199519
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:57:29
Audit Action: Manually Integrated Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

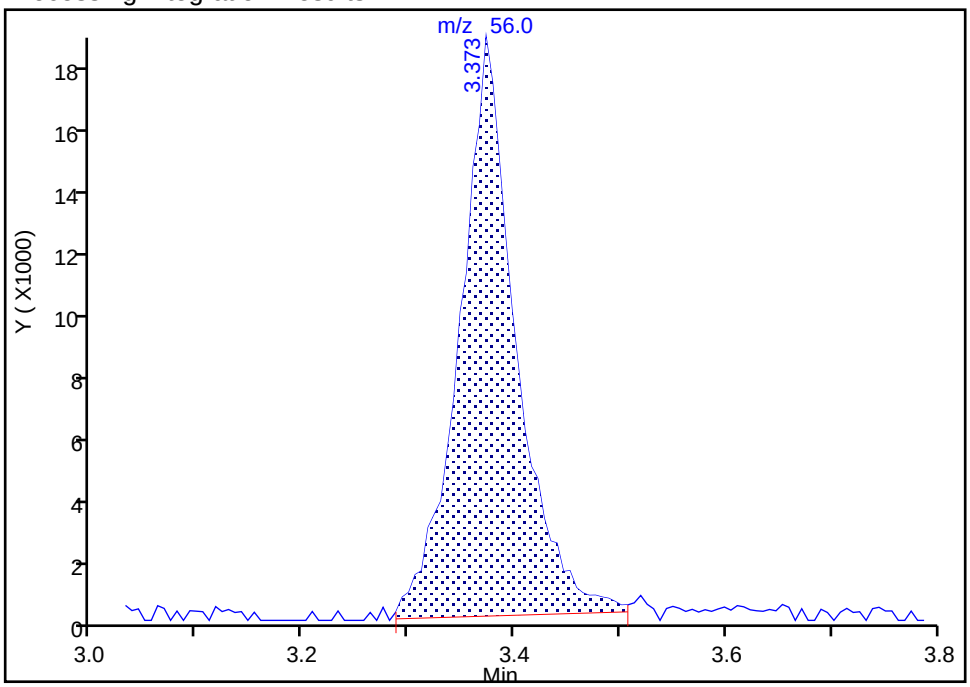
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D				
Injection Date:	30-Nov-2020 15:03:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

18 Acrolein, CAS: 107-02-8

Signal: 1

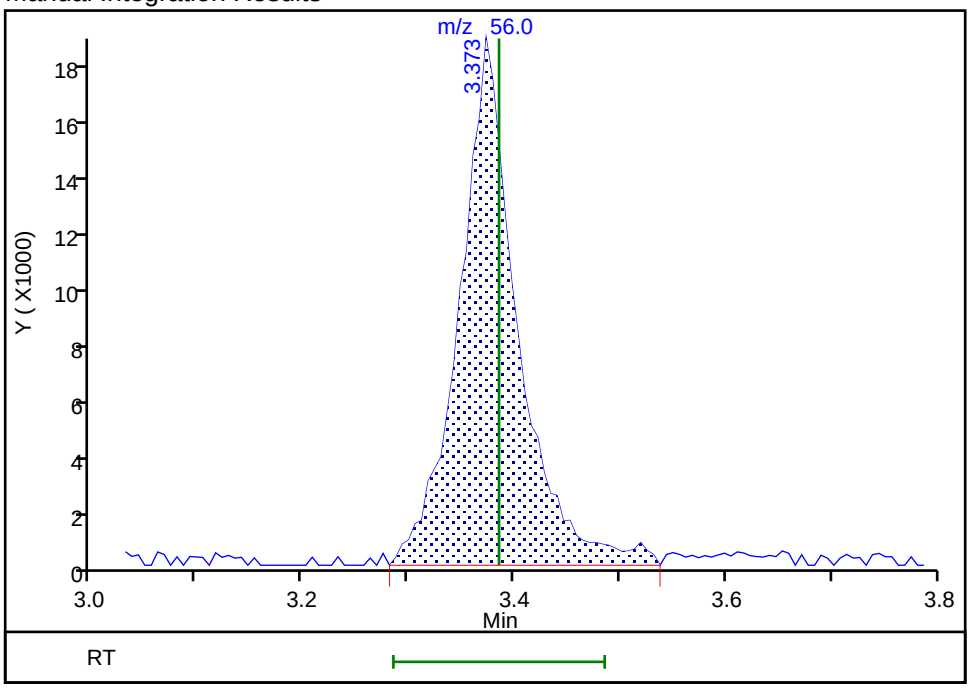
Processing Integration Results

RT: 3.37
Area: 68852
Amount: 9.880650
Amount Units: ug/l



Manual Integration Results

RT: 3.37
Area: 71856
Amount: 10.248628
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:57:49
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

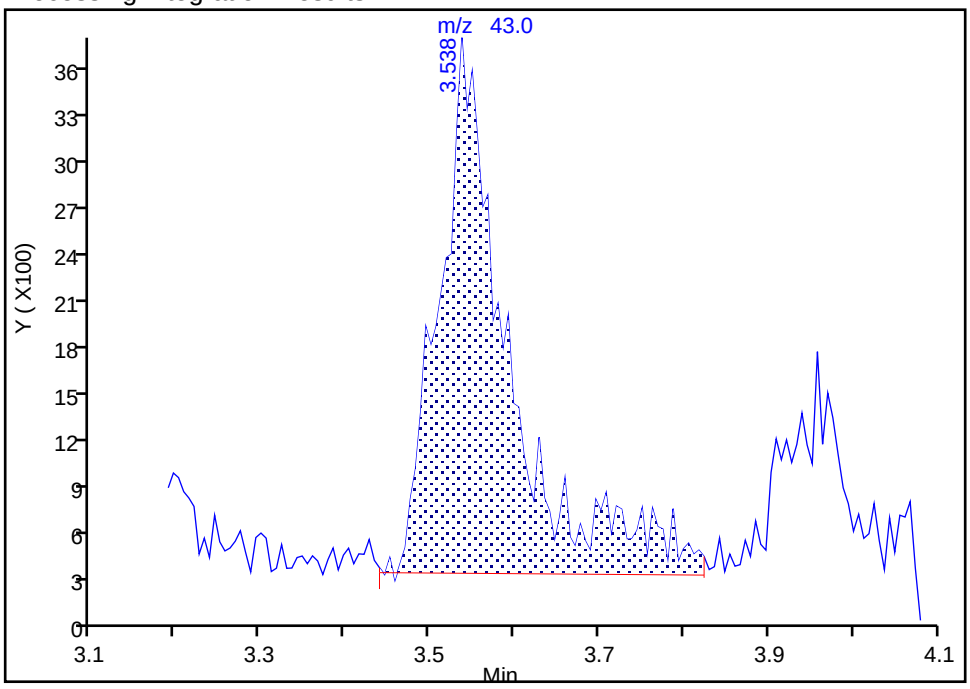
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D
Injection Date: 30-Nov-2020 15:03:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: DVV10203 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

20 Acetone, CAS: 67-64-1

Signal: 1

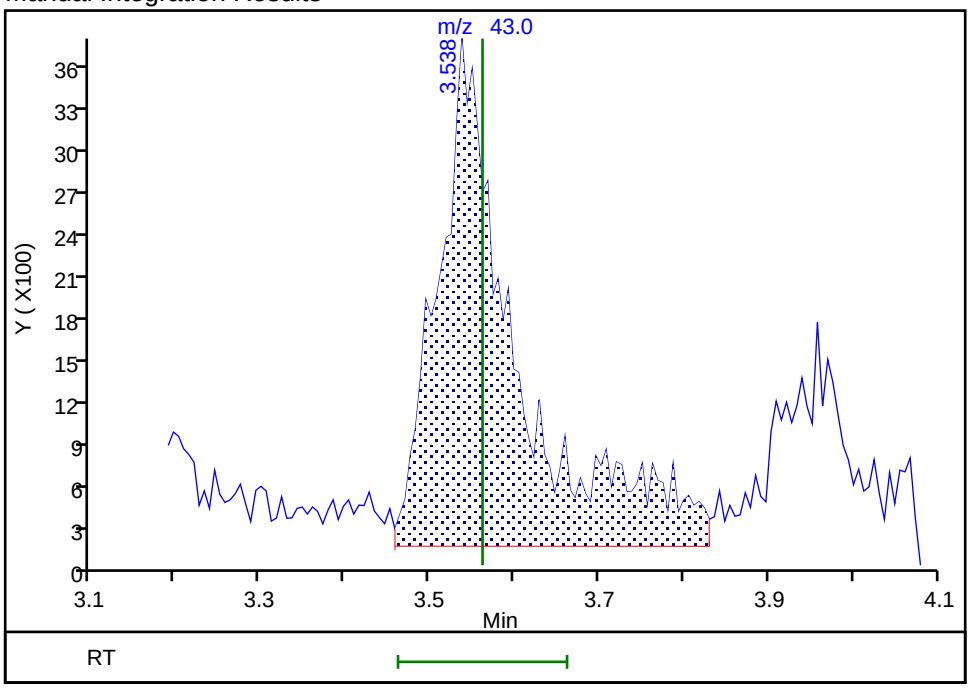
Processing Integration Results

RT: 3.54
Area: 19830
Amount: 2.253640
Amount Units: ug/l



Manual Integration Results

RT: 3.54
Area: 23541
Amount: 2.597149
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:58:09
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

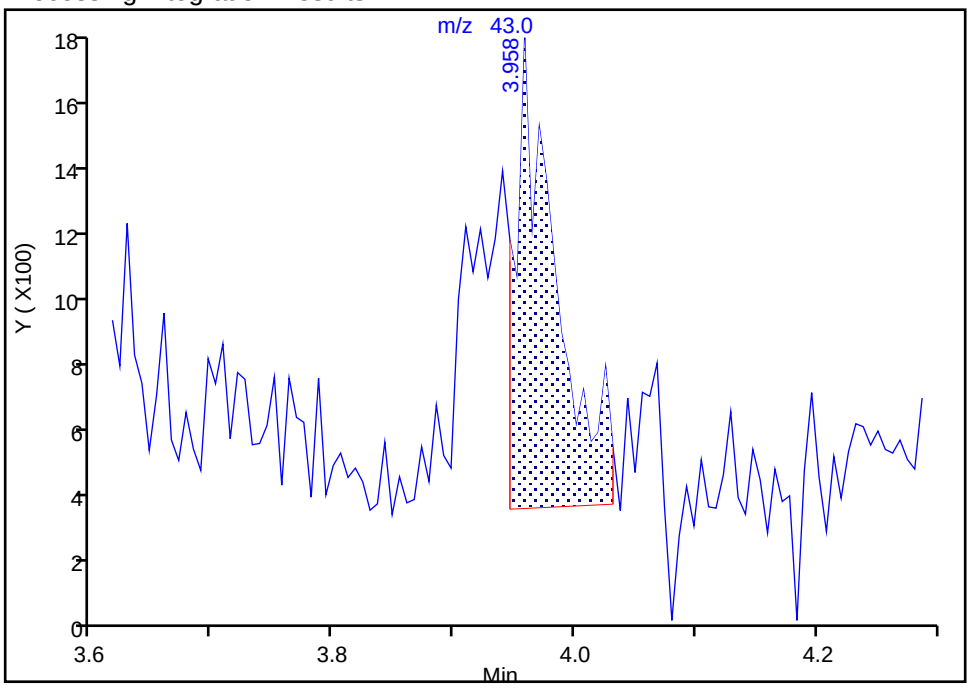
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D				
Injection Date:	30-Nov-2020 15:03:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

26 Methyl acetate, CAS: 79-20-9

Signal: 1

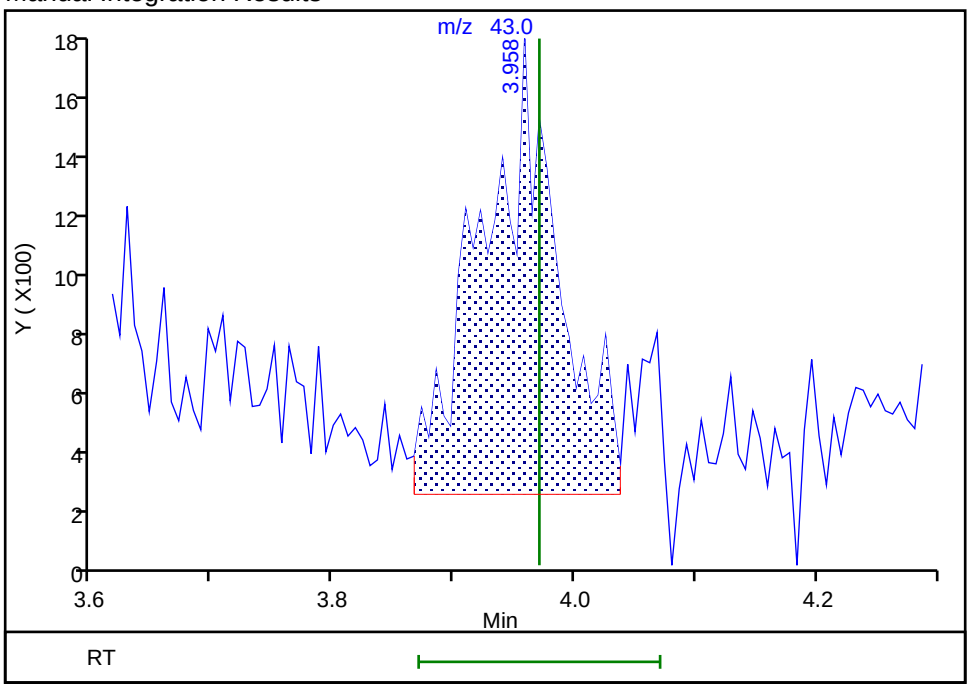
Processing Integration Results

RT: 3.96
Area: 3318
Amount: 0.132791
Amount Units: ug/l



Manual Integration Results

RT: 3.96
Area: 6751
Amount: 0.246039
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:58:21
Audit Action: Manually Integrated Audit Reason: Other

Eurofins Lancaster Laboratories Env, LLC

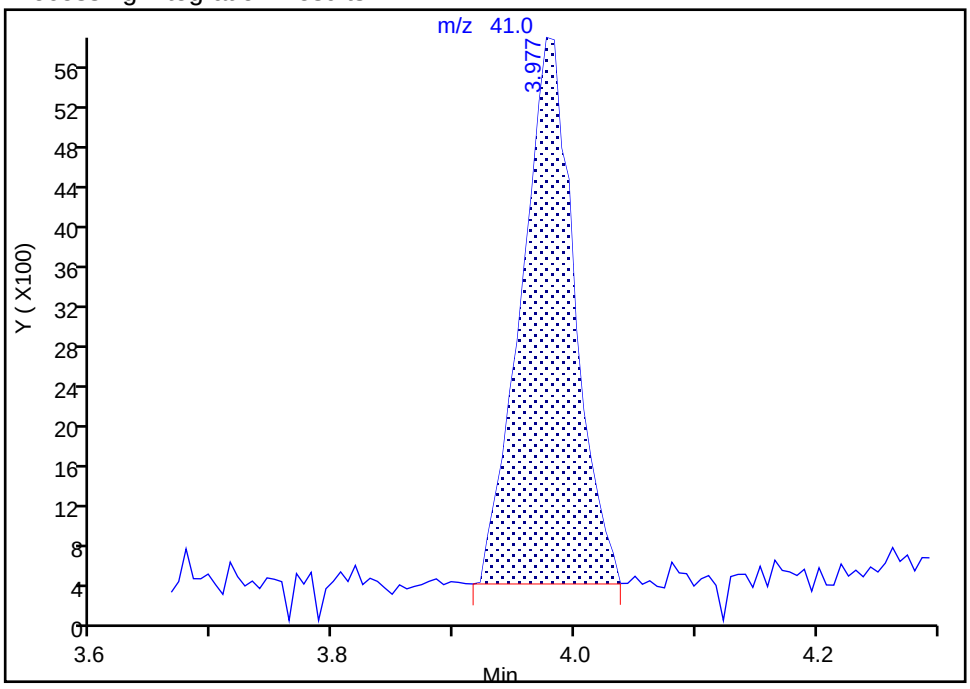
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D
Injection Date: 30-Nov-2020 15:03:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: DVV10203 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

27 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

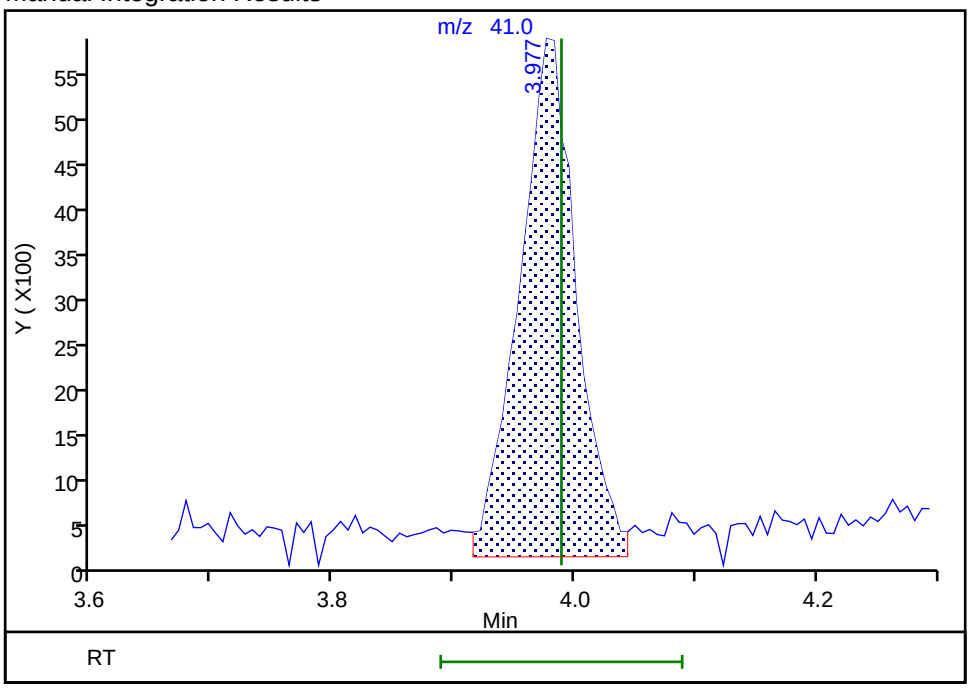
Processing Integration Results

RT: 3.98
Area: 16697
Amount: 0.184837
Amount Units: ug/l



Manual Integration Results

RT: 3.98
Area: 18885
Amount: 0.205503
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:58:29
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

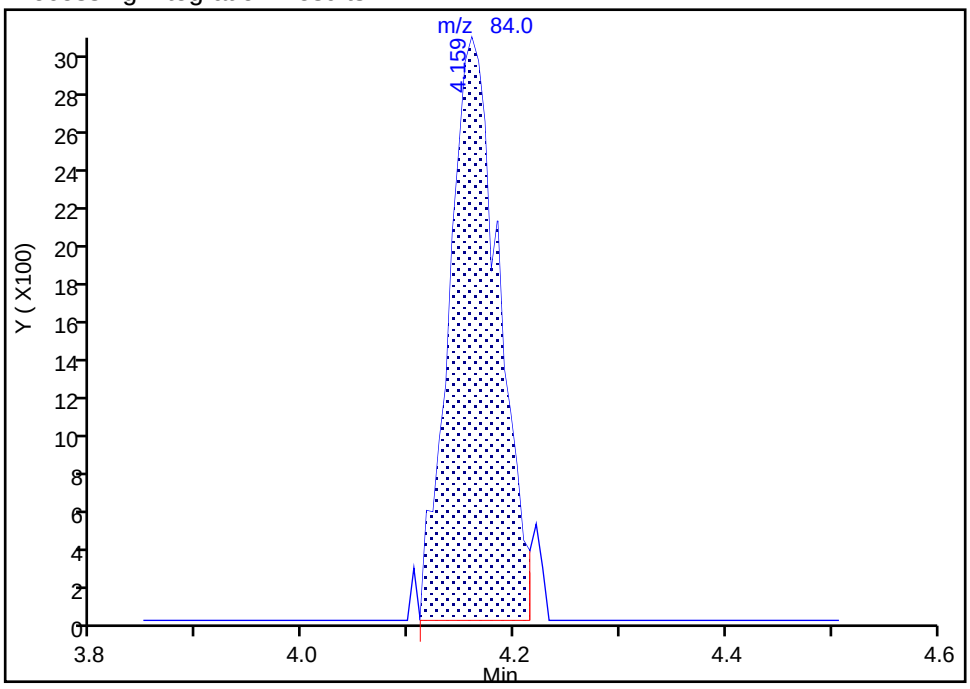
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D				
Injection Date:	30-Nov-2020 15:03:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

28 Methylene Chloride, CAS: 75-09-2

Signal: 1

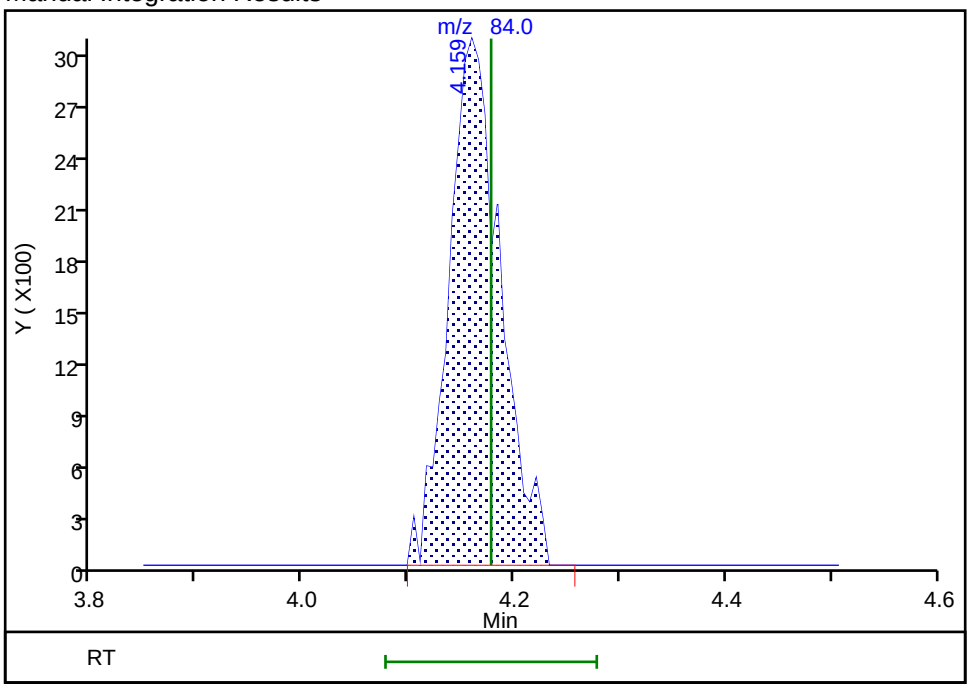
Processing Integration Results

RT: 4.16
Area: 10112
Amount: 0.193174
Amount Units: ug/l



Manual Integration Results

RT: 4.16
Area: 10502
Amount: 0.199562
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:58:35
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

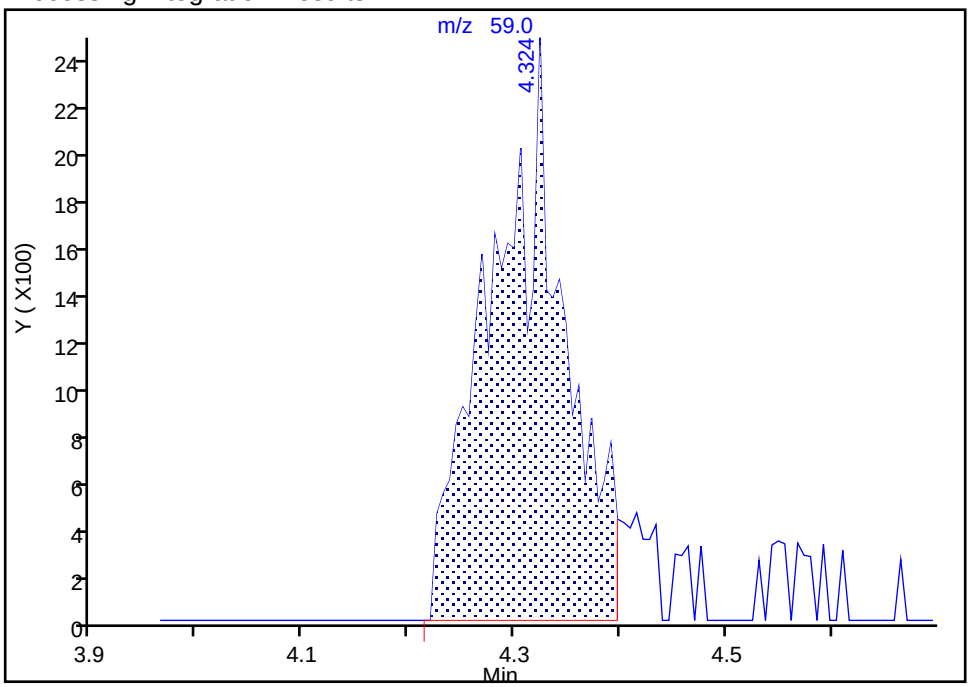
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D				
Injection Date:	30-Nov-2020 15:03:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

30 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

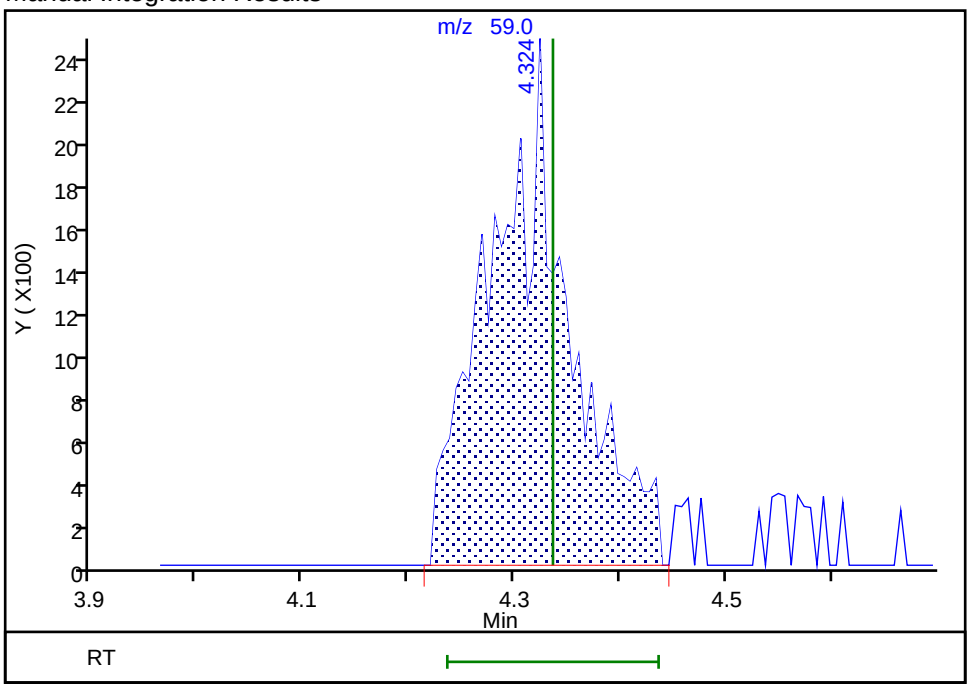
Processing Integration Results

RT: 4.32
Area: 11709
Amount: 3.557640
Amount Units: ug/l



Manual Integration Results

RT: 4.32
Area: 12558
Amount: 3.780767
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:58:41
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

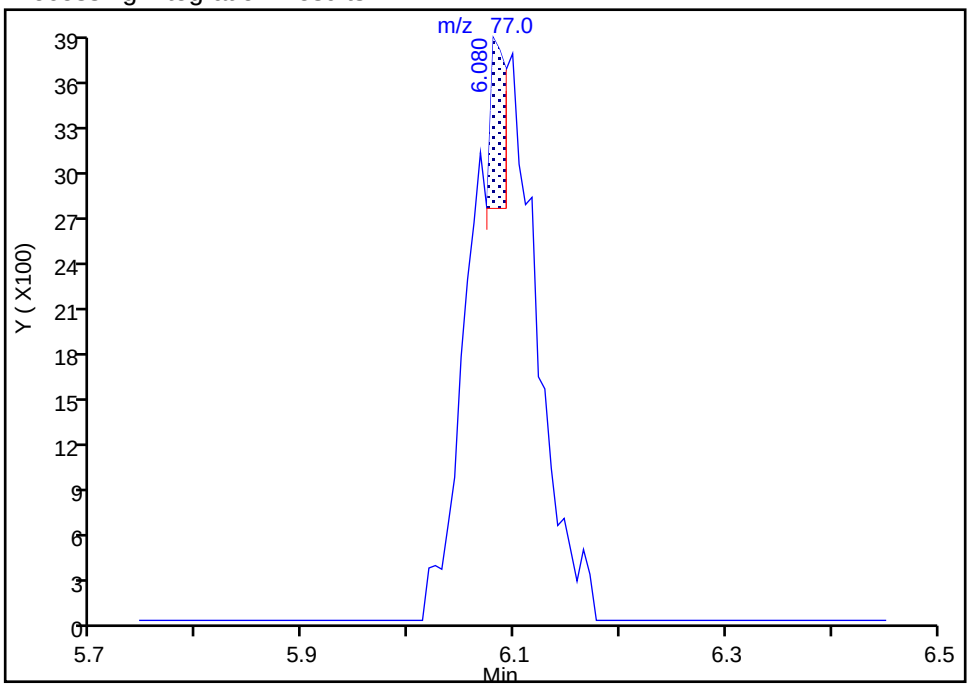
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D
Injection Date: 30-Nov-2020 15:03:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: DVV10203 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

42 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

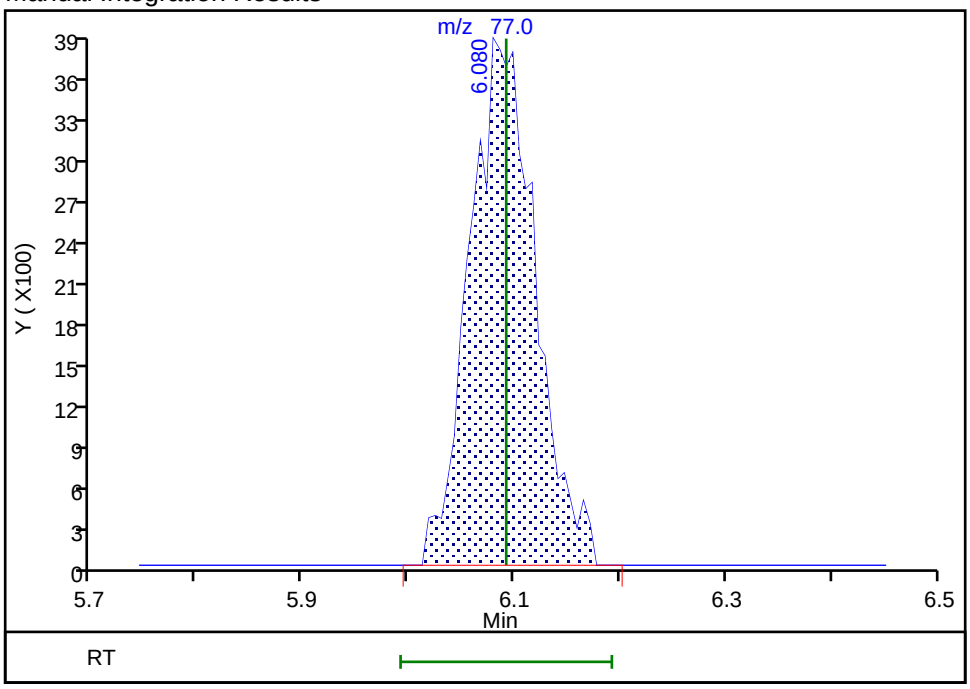
Processing Integration Results

RT: 6.08
Area: 1118
Amount: 0.042823
Amount Units: ug/l



Manual Integration Results

RT: 6.08
Area: 16476
Amount: 0.200176
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:58:50
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

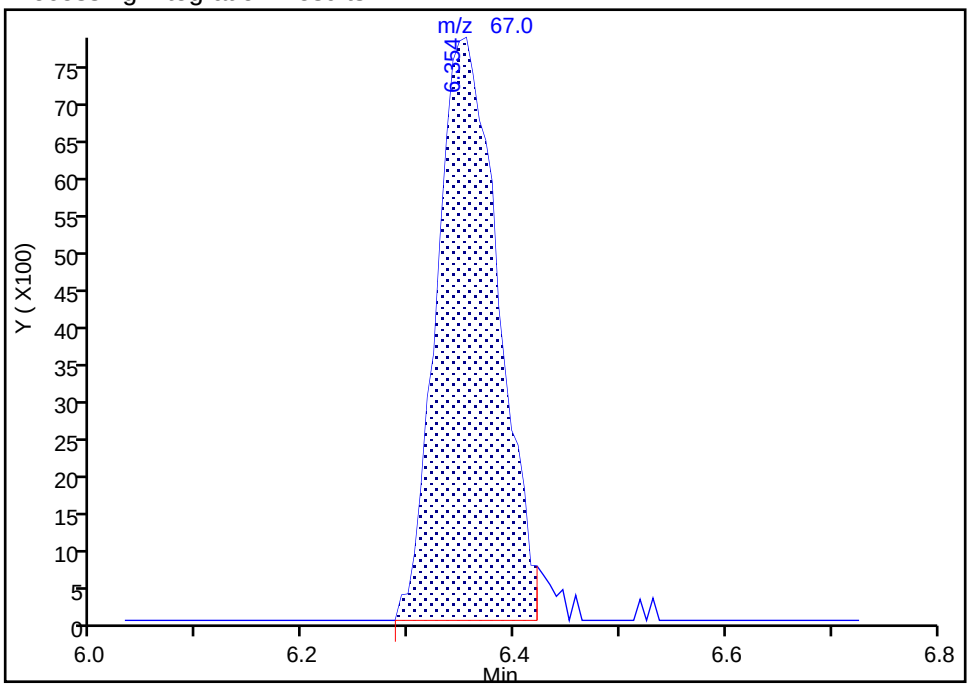
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D
Injection Date: 30-Nov-2020 15:03:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: DVV10203 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

46 Methacrylonitrile, CAS: 126-98-7

Signal: 1

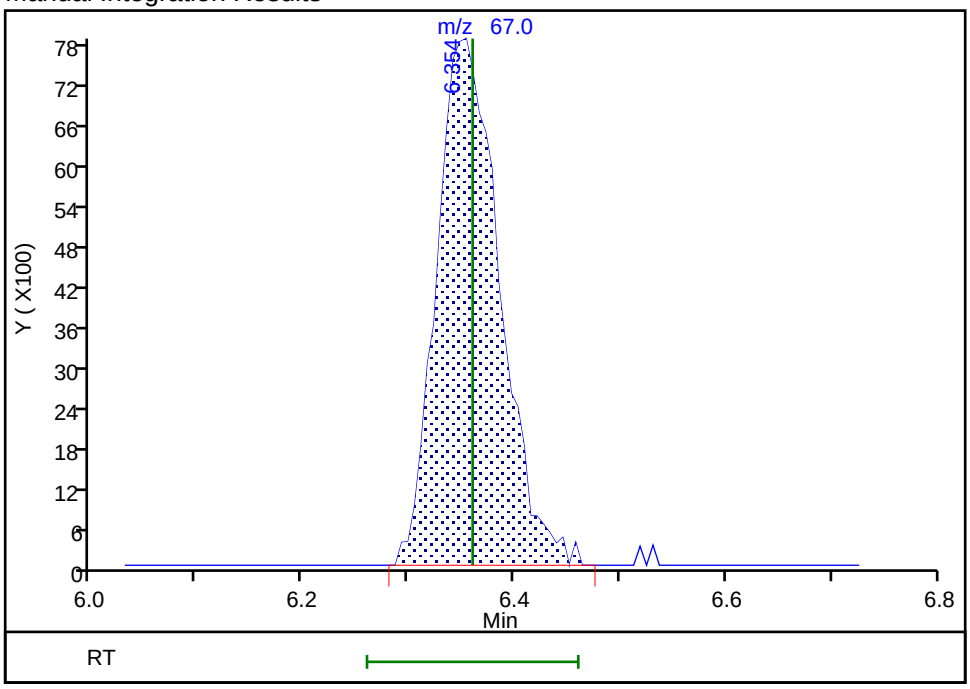
Processing Integration Results

RT: 6.35
Area: 31788
Amount: 2.066779
Amount Units: ug/l



Manual Integration Results

RT: 6.35
Area: 32580
Amount: 2.110510
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:58:58
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

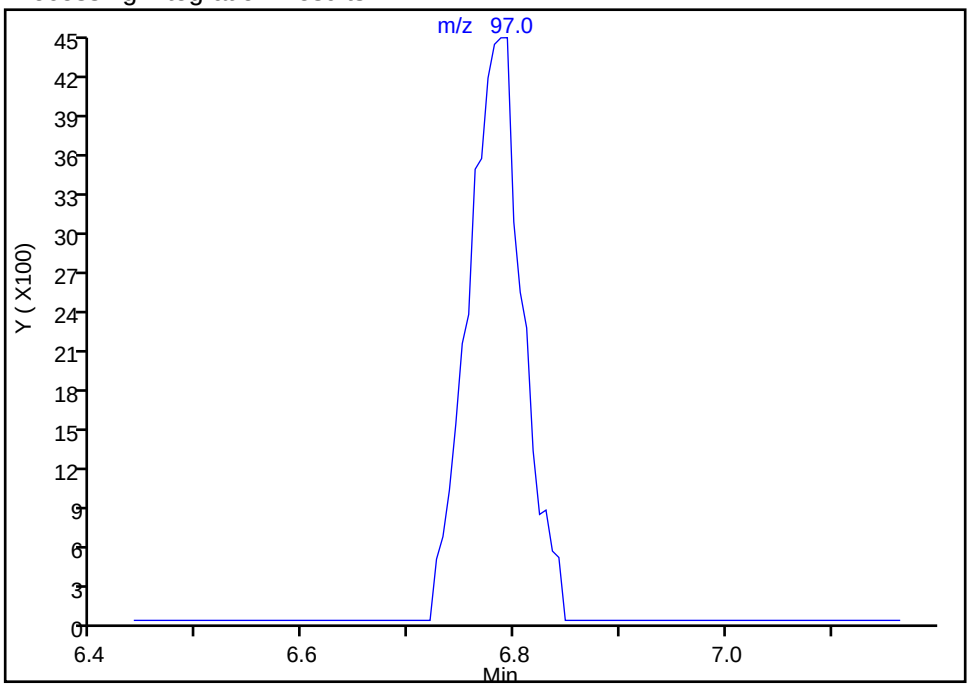
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D
Injection Date: 30-Nov-2020 15:03:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: DVV10203 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

51 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

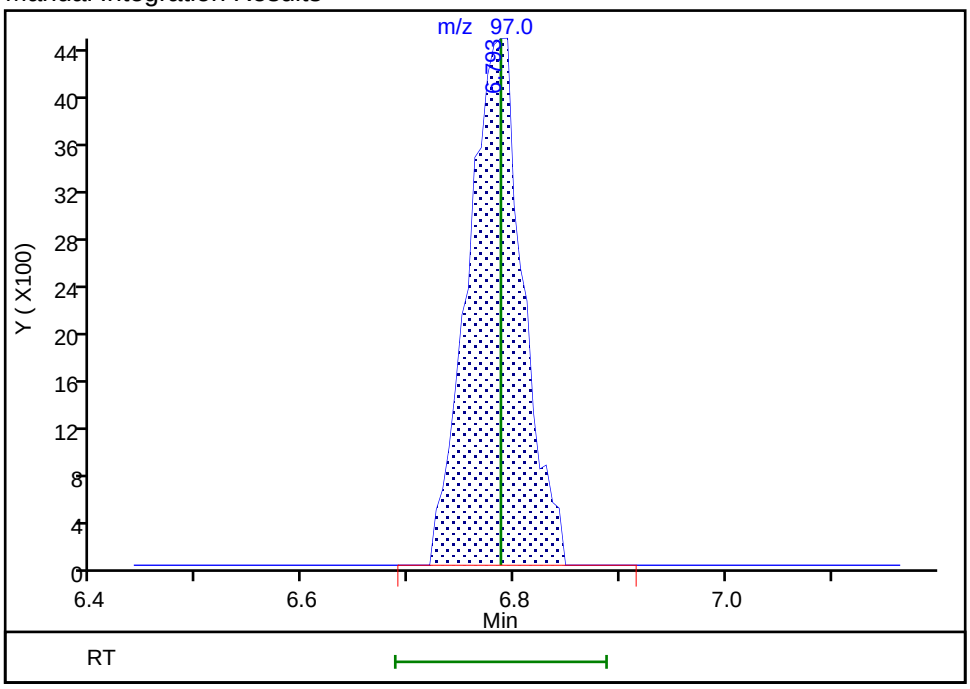
Not Detected
Expected RT: 6.79

Processing Integration Results



Manual Integration Results

RT: 6.79
Area: 16224
Amount: 0.200484
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:59:05
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

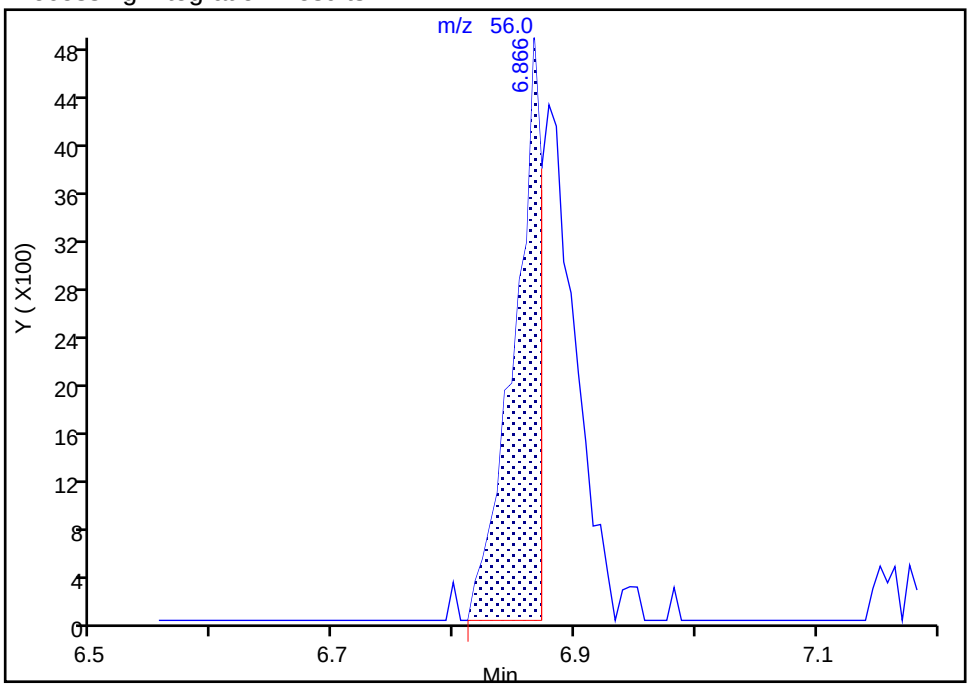
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D				
Injection Date:	30-Nov-2020 15:03:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

53 Cyclohexane, CAS: 110-82-7

Signal: 1

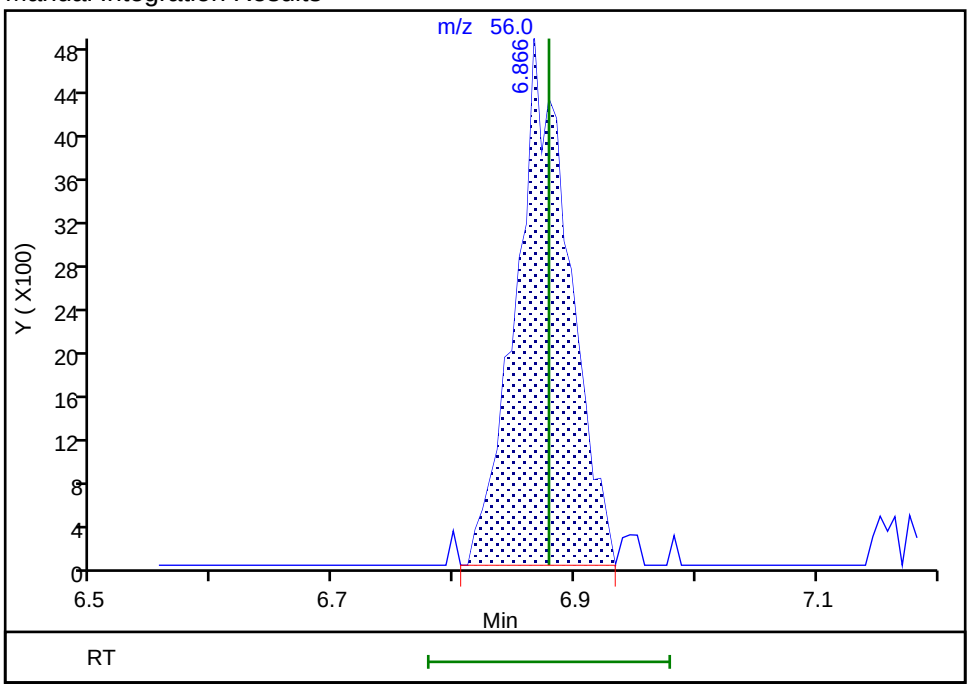
Processing Integration Results

RT: 6.87
Area: 7828
Amount: 0.140707
Amount Units: ug/l



Manual Integration Results

RT: 6.87
Area: 15080
Amount: 0.162145
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:59:11
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

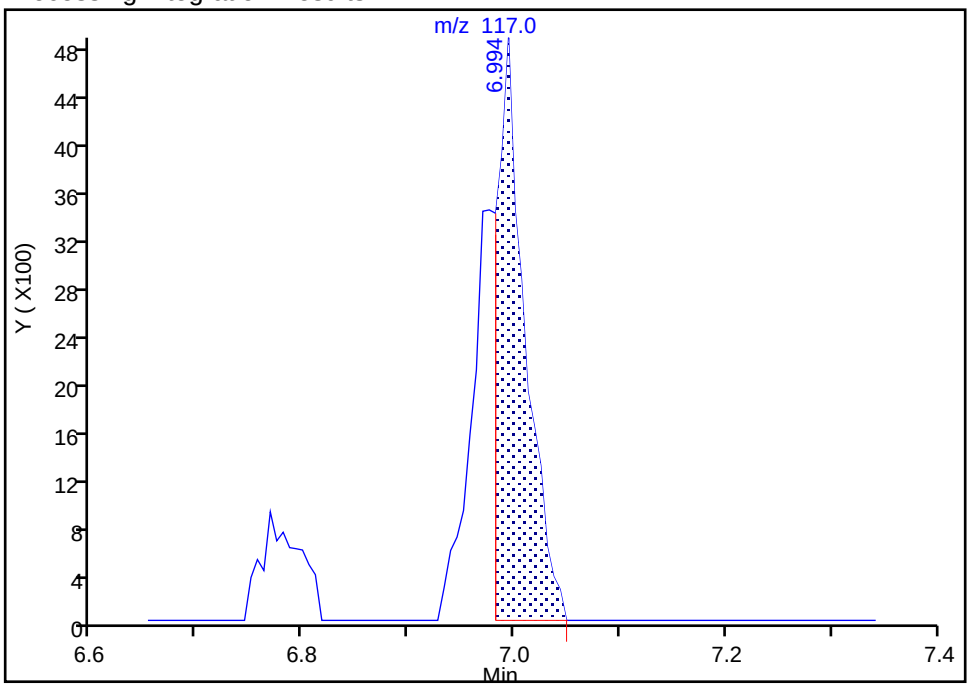
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D
Injection Date: 30-Nov-2020 15:03:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: DVV10203 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

56 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

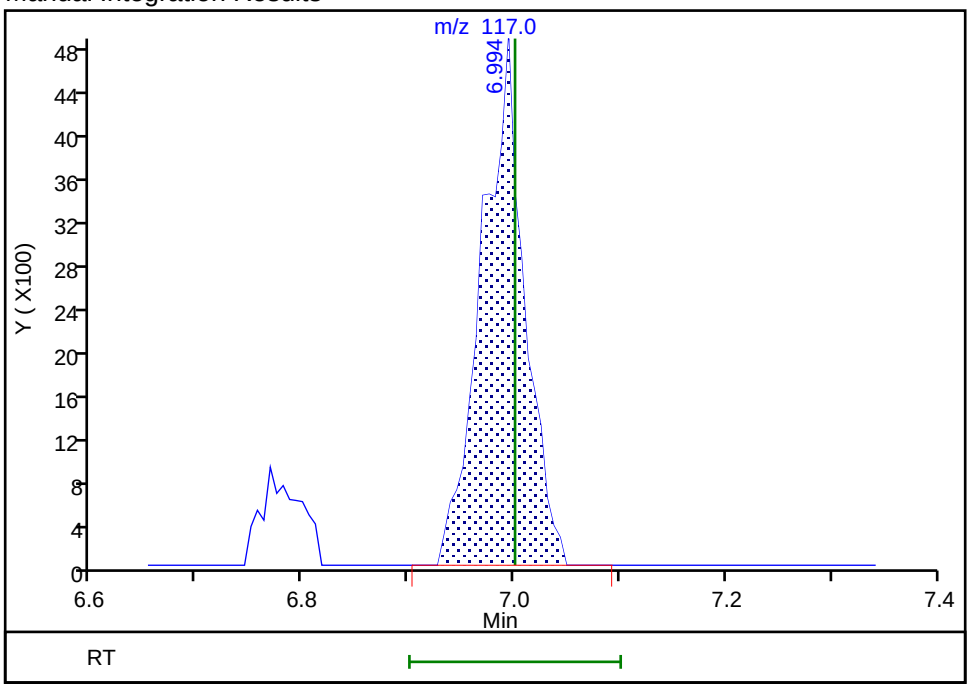
Processing Integration Results

RT: 6.99
Area: 9013
Amount: 0.134991
Amount Units: ug/l



Manual Integration Results

RT: 6.99
Area: 13772
Amount: 0.196276
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:59:15
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

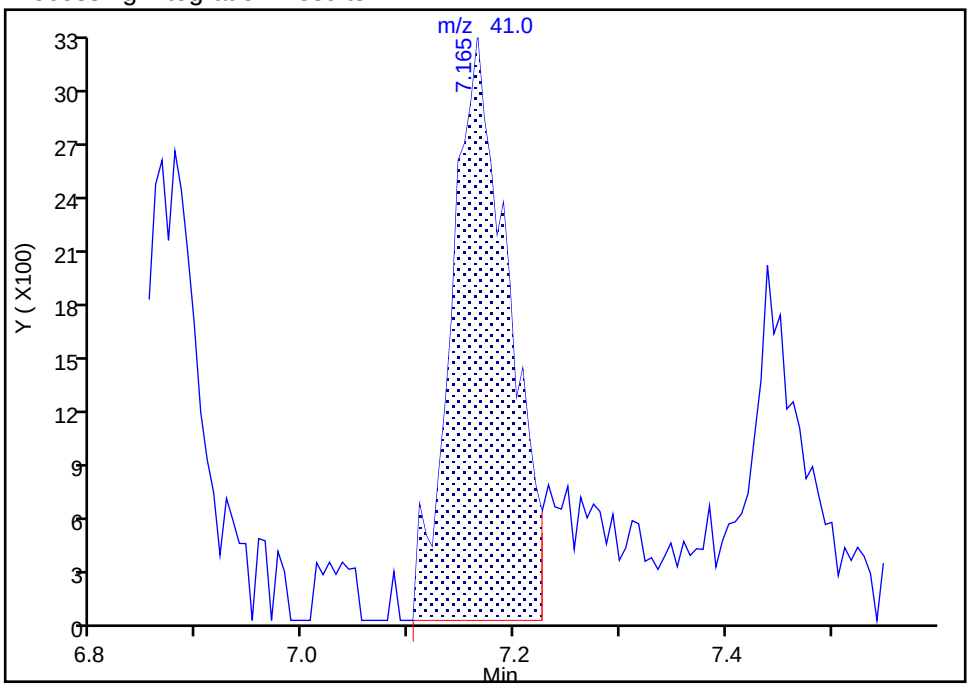
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D				
Injection Date:	30-Nov-2020 15:03:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

57 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

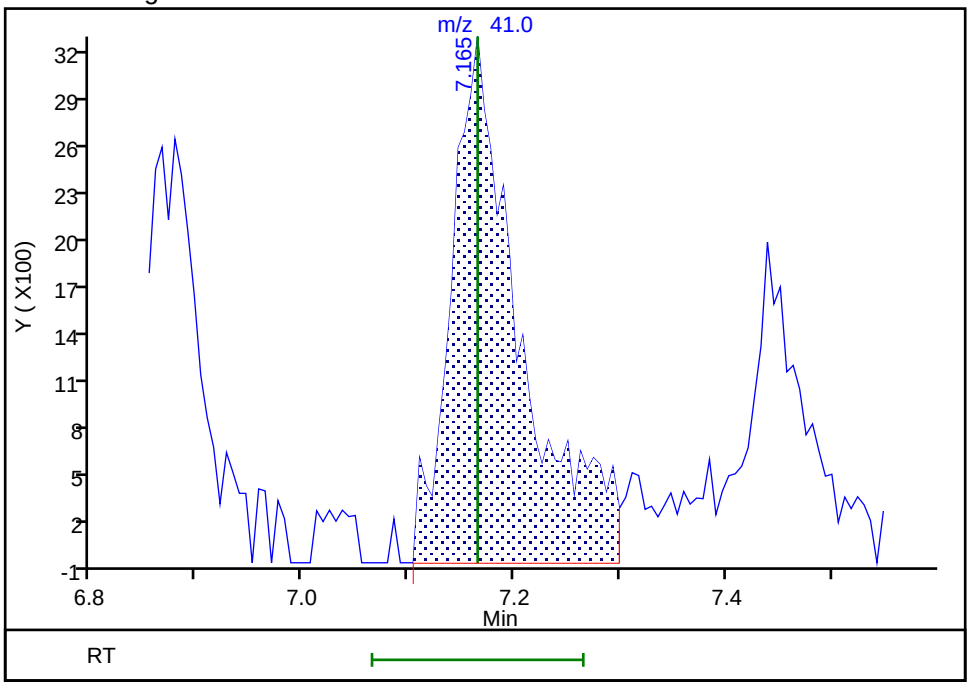
Processing Integration Results

RT: 7.16
Area: 12358
Amount: 10.222385
Amount Units: ug/l



Manual Integration Results

RT: 7.16
Area: 14998
Amount: 12.030837
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:59:26
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

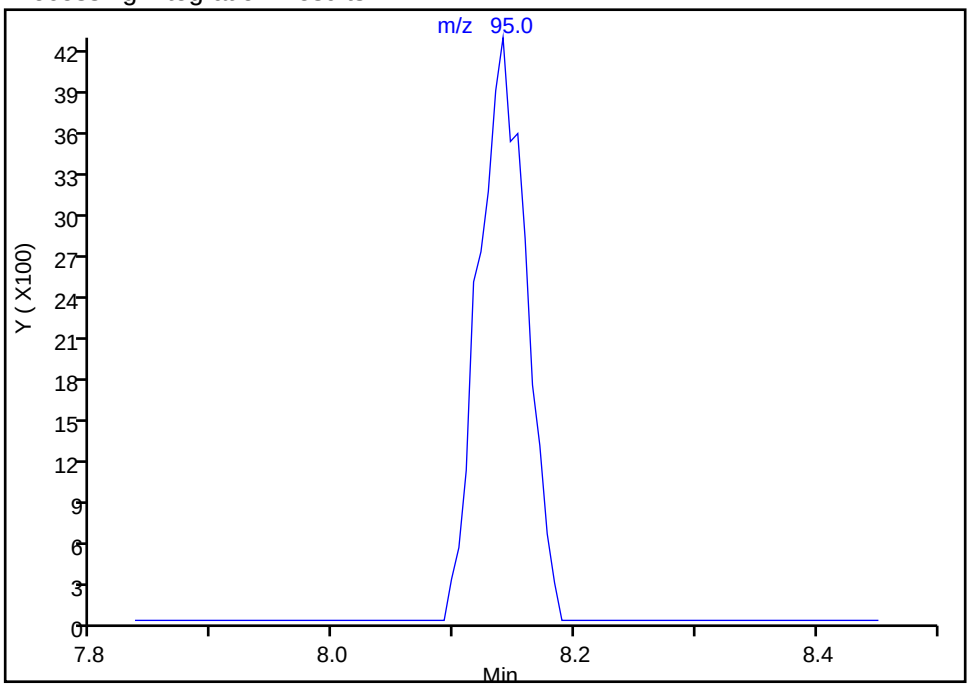
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D
Injection Date: 30-Nov-2020 15:03:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: DVV10203 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

67 Trichloroethene, CAS: 79-01-6

Signal: 1

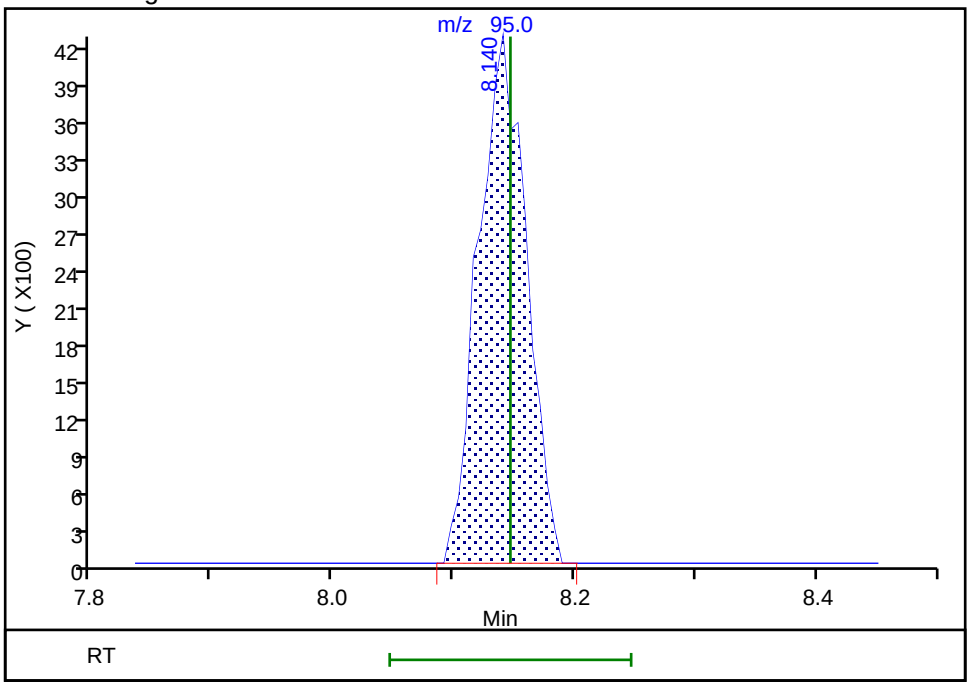
Not Detected
Expected RT: 8.15

Processing Integration Results



Manual Integration Results

RT: 8.14
Area: 11723
Amount: 0.204849
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:59:36
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

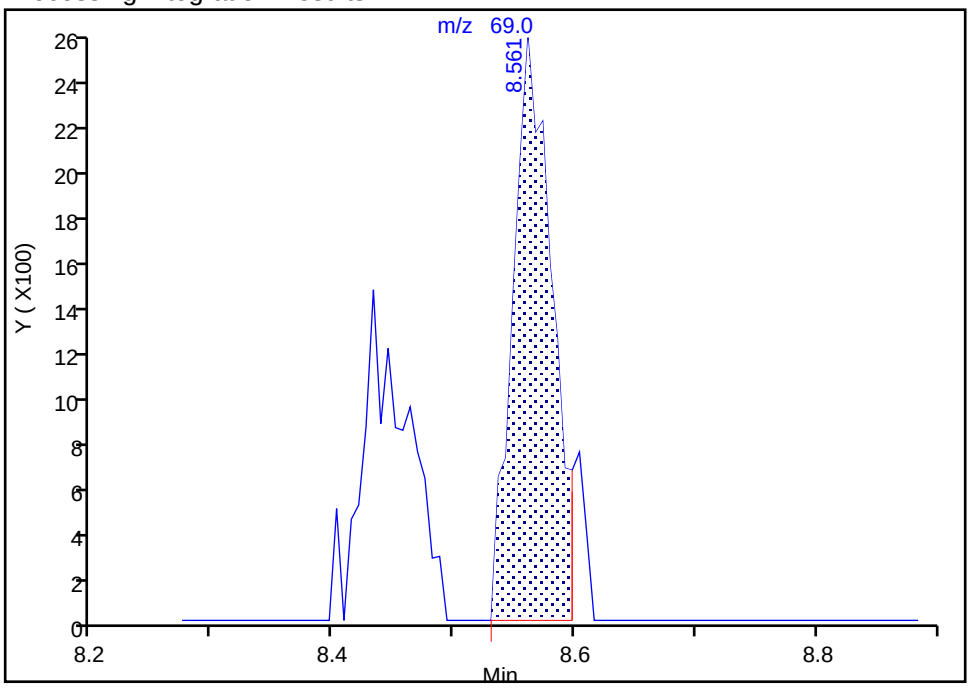
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D				
Injection Date:	30-Nov-2020 15:03:30	Instrument ID:	16334		
Lims ID:	IC std1				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

71 Methyl methacrylate, CAS: 80-62-6

Signal: 1

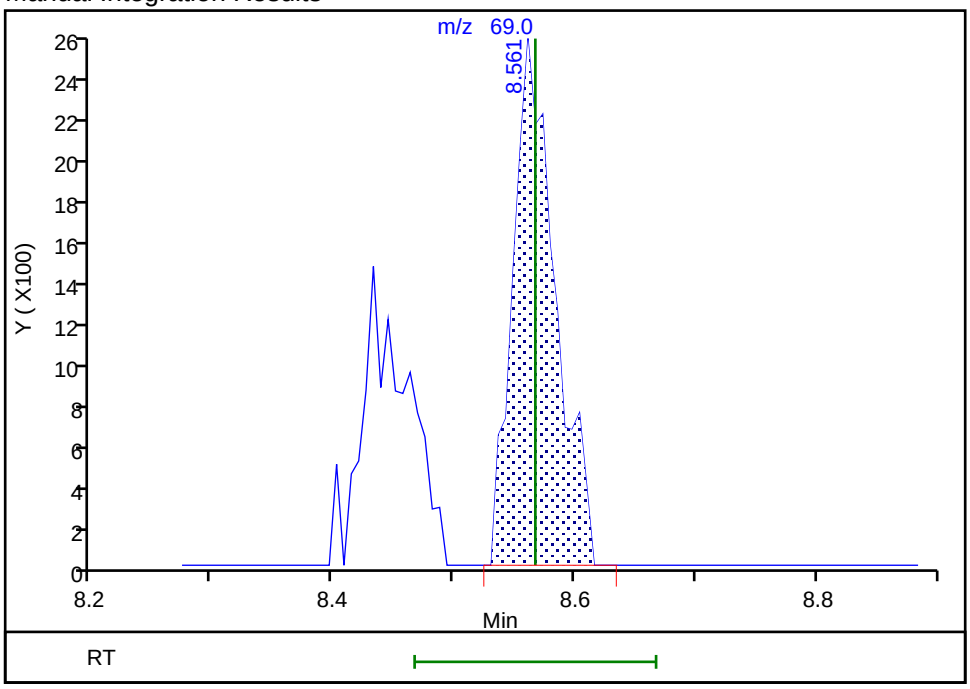
Processing Integration Results

RT: 8.56
Area: 5837
Amount: 0.187386
Amount Units: ug/l



Manual Integration Results

RT: 8.56
Area: 6248
Amount: 0.198708
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:59:42
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

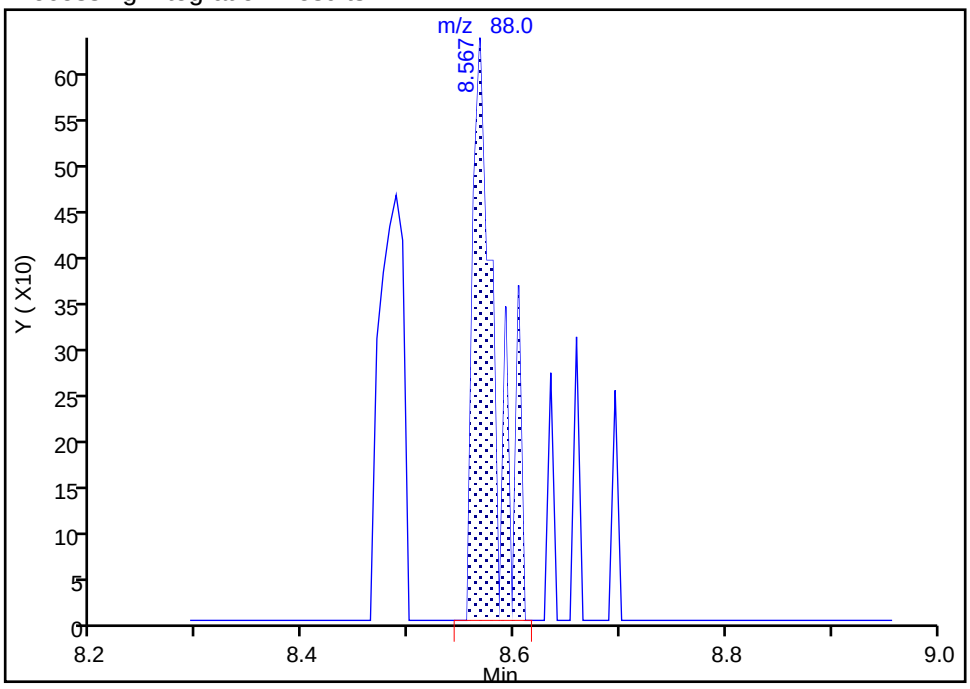
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I07.D
Injection Date: 30-Nov-2020 15:03:30 Instrument ID: 16334
Lims ID: IC std1
Client ID:
Operator ID: DVV10203 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

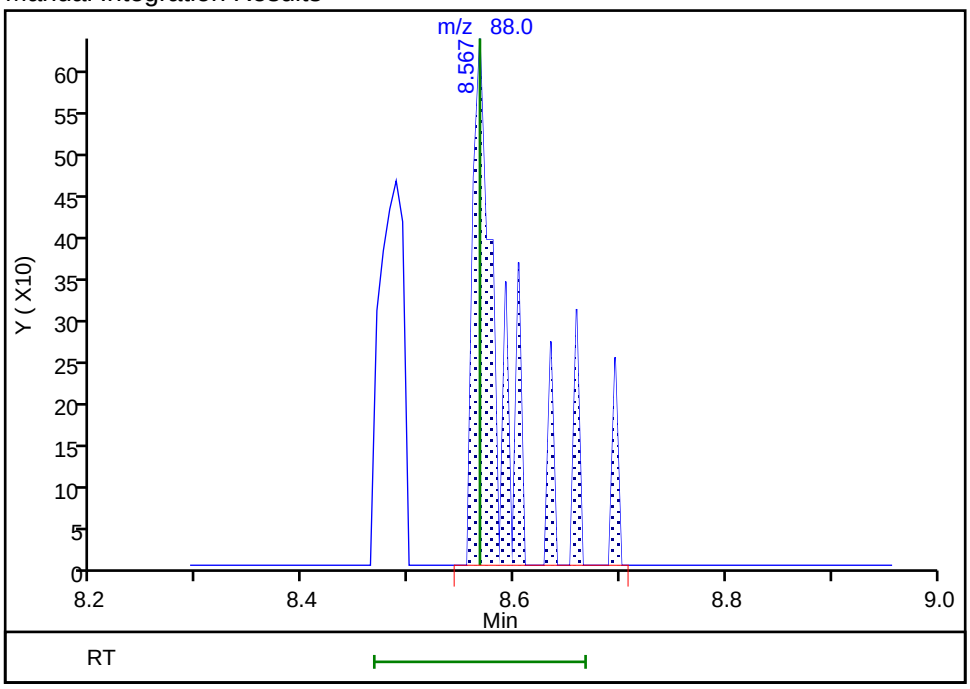
Processing Integration Results

RT: 8.57
Area: 946
Amount: 4.546939
Amount Units: ug/l



Manual Integration Results

RT: 8.57
Area: 1248
Amount: 5.876637
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 11:59:46
Audit Action: Manually Integrated Audit Reason: Other

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

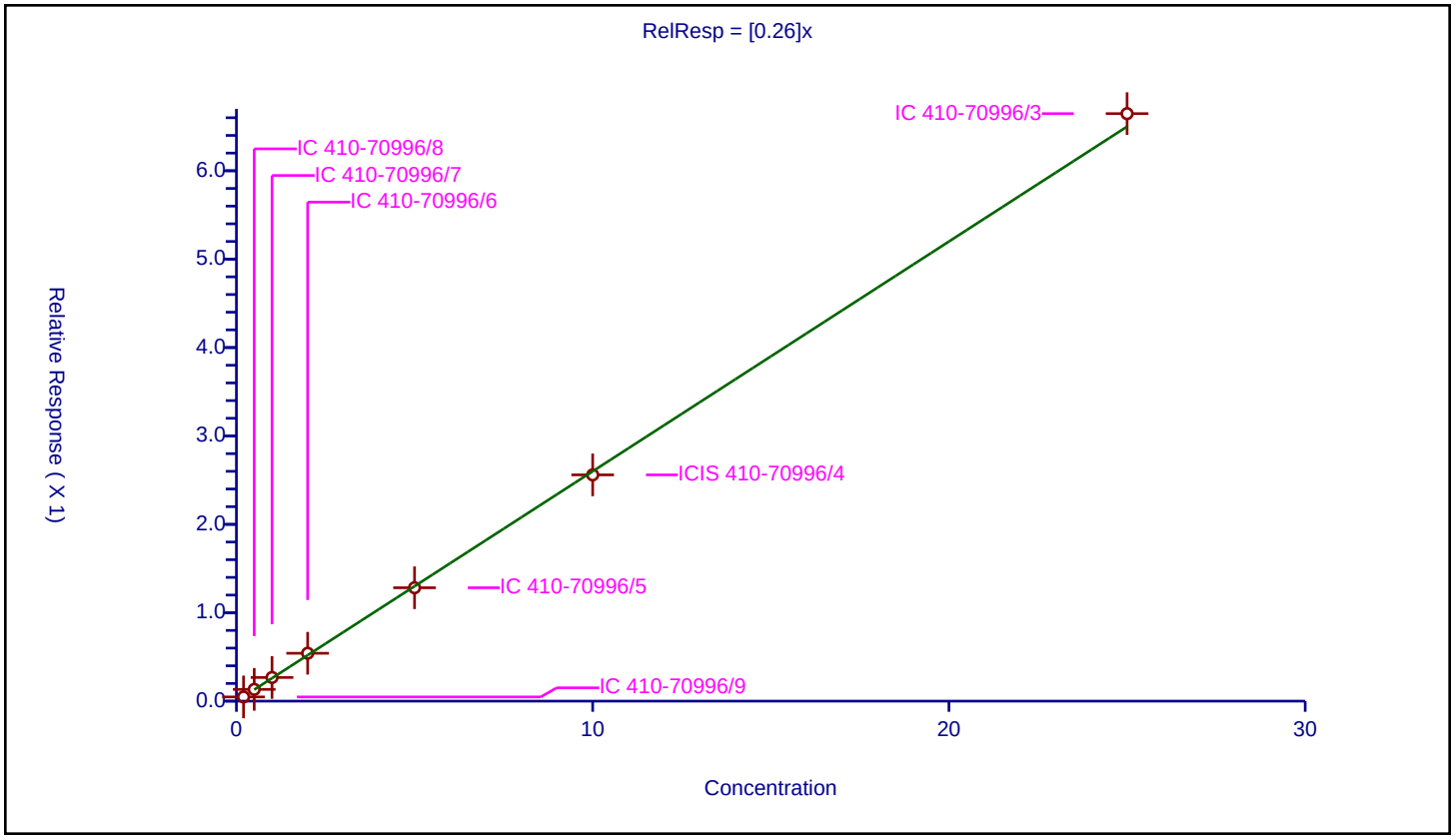
Curve Coefficients

Intercept:	0
Slope:	0.26

Error Coefficients

Standard Error:	667000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.047352	10.0	2204755.0	0.236761	Y
2	IC 410-70996/8	0.5	0.133089	10.0	2189287.0	0.266178	Y
3	IC 410-70996/7	1.0	0.267761	10.0	2211412.0	0.267761	Y
4	IC 410-70996/6	2.0	0.541666	10.0	2210035.0	0.270833	Y
5	IC 410-70996/5	5.0	1.282832	10.0	2225560.0	0.256566	Y
6	ICIS 410-70996/4	10.0	2.559618	10.0	2246480.0	0.255962	Y
7	IC 410-70996/3	25.0	6.646281	10.0	2249974.0	0.265851	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

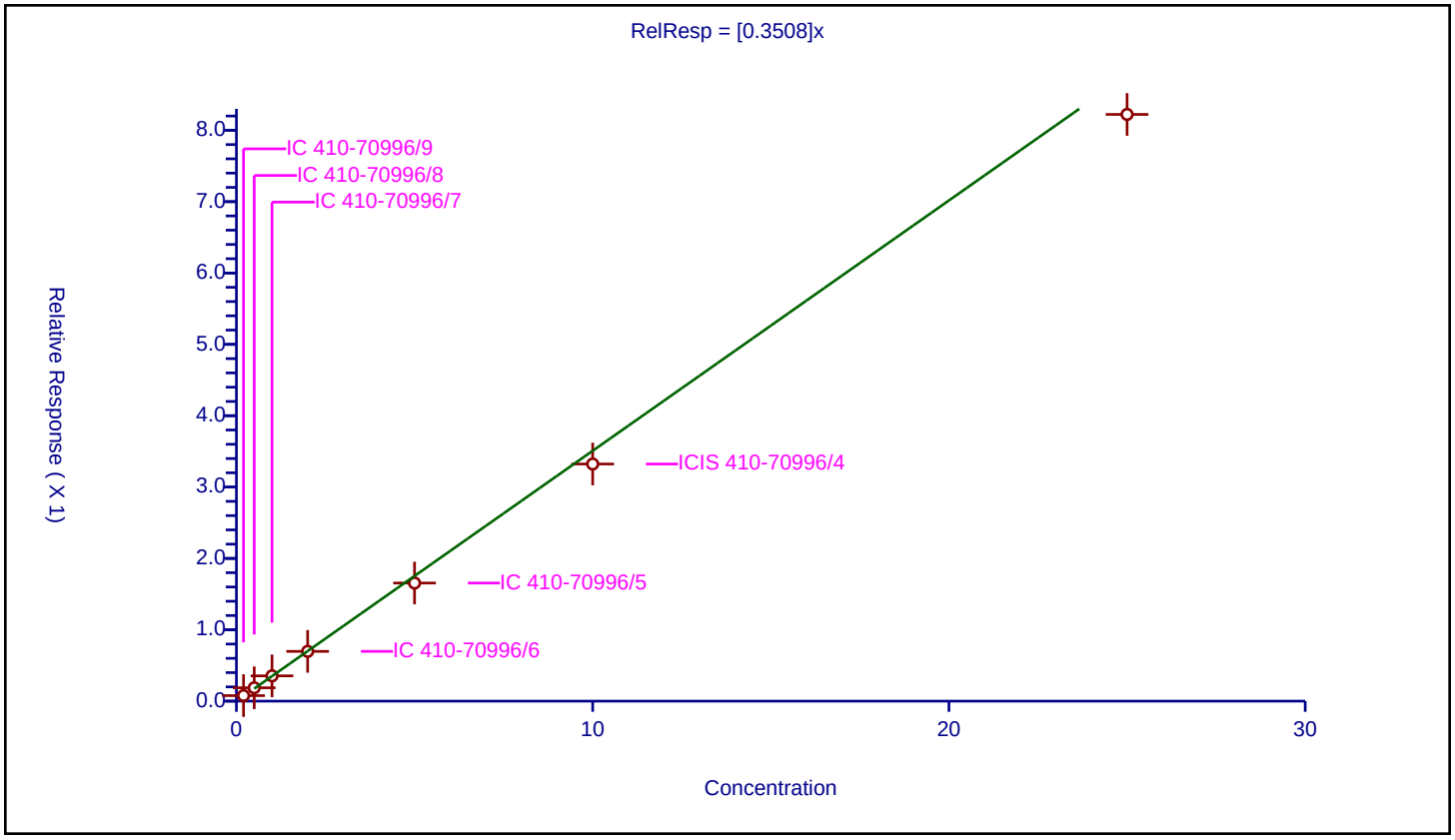
Curve Coefficients

Intercept:	0
Slope:	0.3508

Error Coefficients

Standard Error:	831000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.077292	10.0	2204755.0	0.38646	Y
2	IC 410-70996/8	0.5	0.187015	10.0	2189287.0	0.37403	Y
3	IC 410-70996/7	1.0	0.354294	10.0	2211412.0	0.354294	Y
4	IC 410-70996/6	2.0	0.697541	10.0	2210035.0	0.34877	Y
5	IC 410-70996/5	5.0	1.655156	10.0	2225560.0	0.331031	Y
6	ICIS 410-70996/4	10.0	3.323453	10.0	2246480.0	0.332345	Y
7	IC 410-70996/3	25.0	8.222206	10.0	2249974.0	0.328888	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

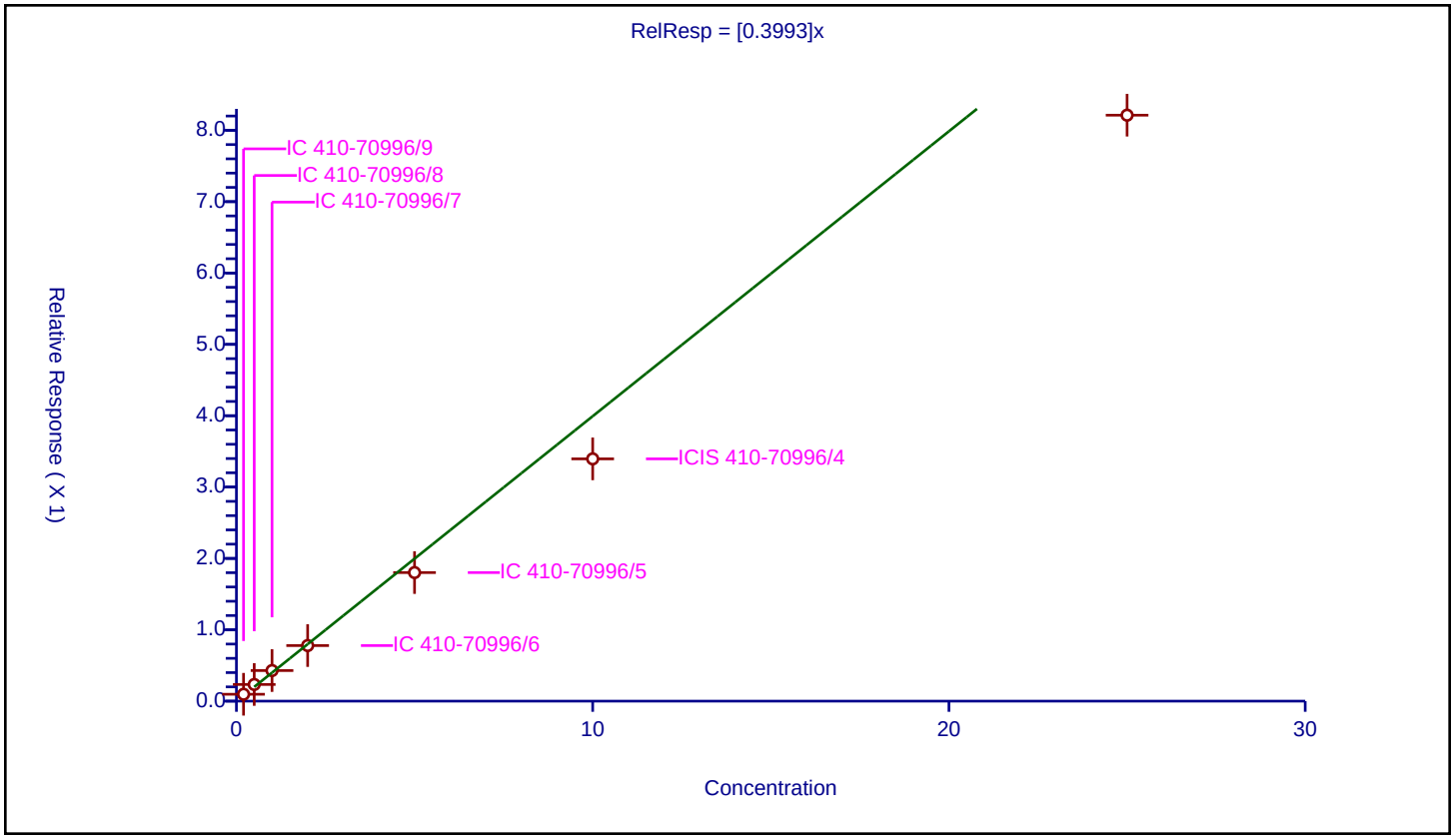
Curve Coefficients

Intercept:	0
Slope:	0.3993

Error Coefficients

Standard Error:	836000
Relative Standard Error:	15.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.962

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.096351	10.0	2204755.0	0.481754	Y
2	IC 410-70996/8	0.5	0.233396	10.0	2189287.0	0.466791	Y
3	IC 410-70996/7	1.0	0.428726	10.0	2211412.0	0.428726	Y
4	IC 410-70996/6	2.0	0.778888	10.0	2210035.0	0.389444	Y
5	IC 410-70996/5	5.0	1.801771	10.0	2225560.0	0.360354	Y
6	ICIS 410-70996/4	10.0	3.395481	10.0	2246480.0	0.339548	Y
7	IC 410-70996/3	25.0	8.211886	10.0	2249974.0	0.328475	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

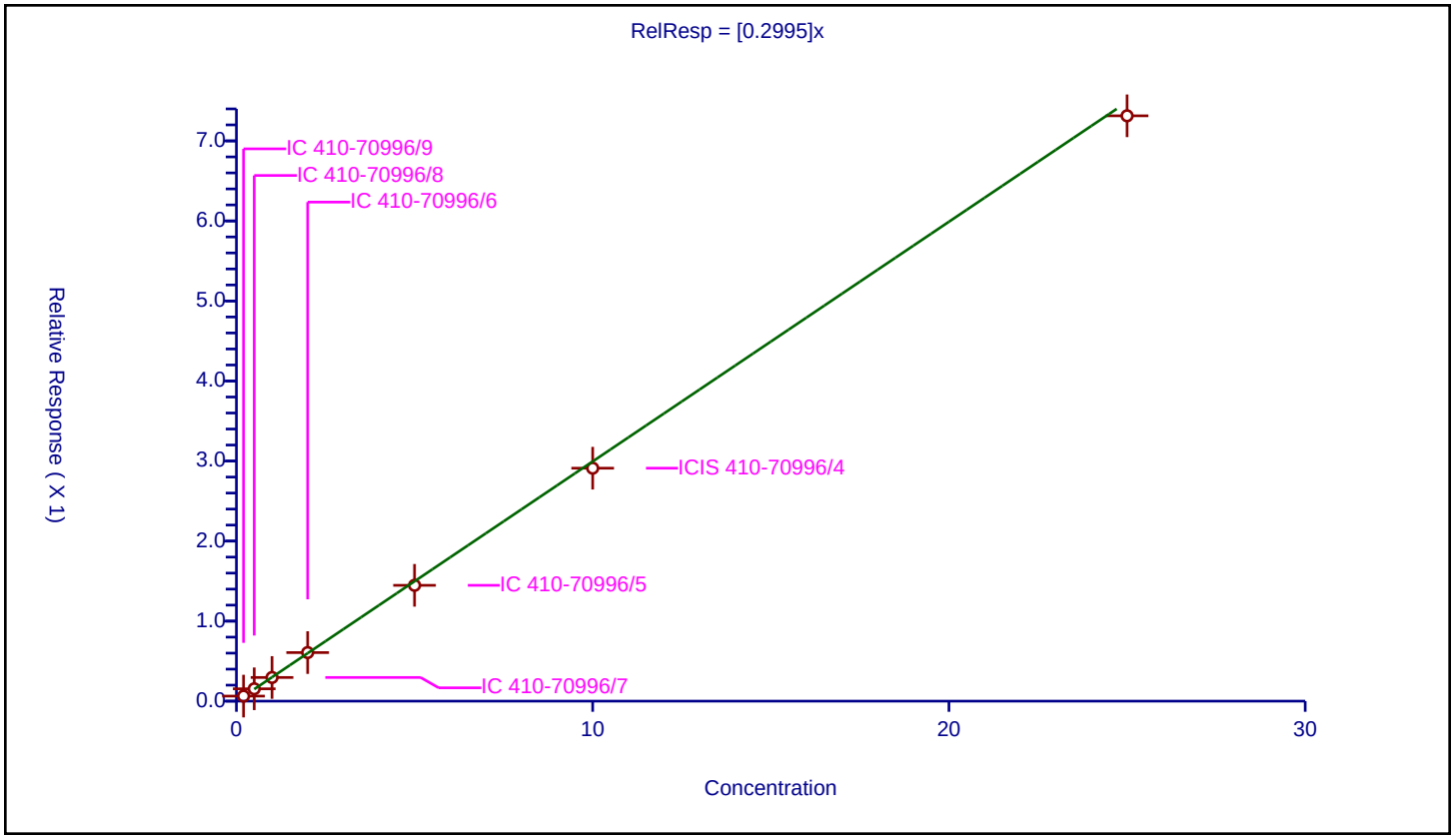
Curve Coefficients

Intercept:	0
Slope:	0.2995

Error Coefficients

Standard Error:	737000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.063182	10.0	2204755.0	0.315908	Y
2	IC 410-70996/8	0.5	0.154196	10.0	2189287.0	0.308393	Y
3	IC 410-70996/7	1.0	0.295648	10.0	2211412.0	0.295648	Y
4	IC 410-70996/6	2.0	0.606927	10.0	2210035.0	0.303464	Y
5	IC 410-70996/5	5.0	1.447137	10.0	2225560.0	0.289427	Y
6	ICIS 410-70996/4	10.0	2.910727	10.0	2246480.0	0.291073	Y
7	IC 410-70996/3	25.0	7.313565	10.0	2249974.0	0.292543	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

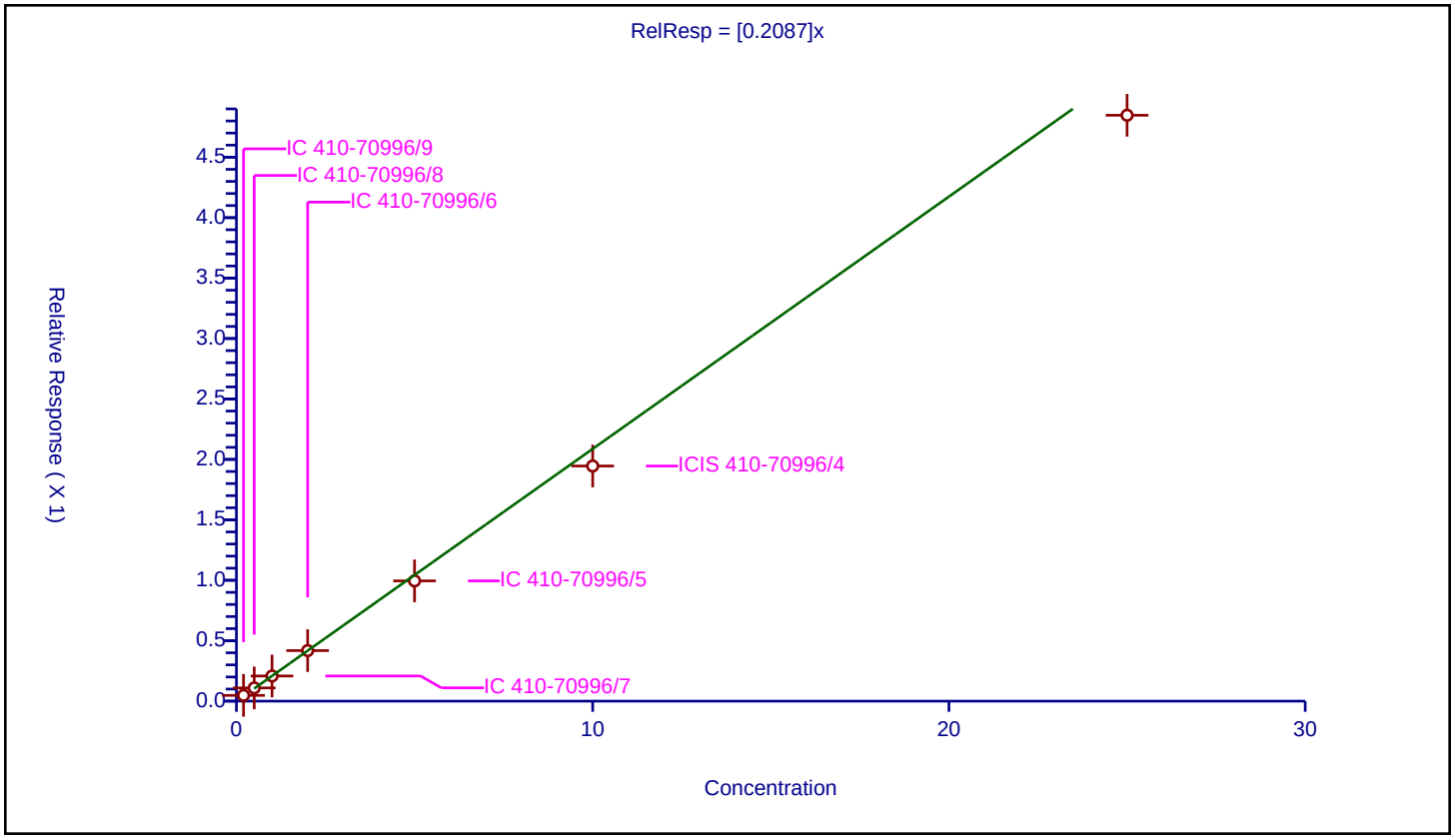
Curve Coefficients

Intercept:	0
Slope:	0.2087

Error Coefficients

Standard Error:	490000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.04752	10.0	2204755.0	0.2376	Y
2	IC 410-70996/8	0.5	0.109405	10.0	2189287.0	0.218811	Y
3	IC 410-70996/7	1.0	0.208039	10.0	2211412.0	0.208039	Y
4	IC 410-70996/6	2.0	0.418152	10.0	2210035.0	0.209076	Y
5	IC 410-70996/5	5.0	0.995021	10.0	2225560.0	0.199004	Y
6	ICIS 410-70996/4	10.0	1.945355	10.0	2246480.0	0.194535	Y
7	IC 410-70996/3	25.0	4.847372	10.0	2249974.0	0.193895	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

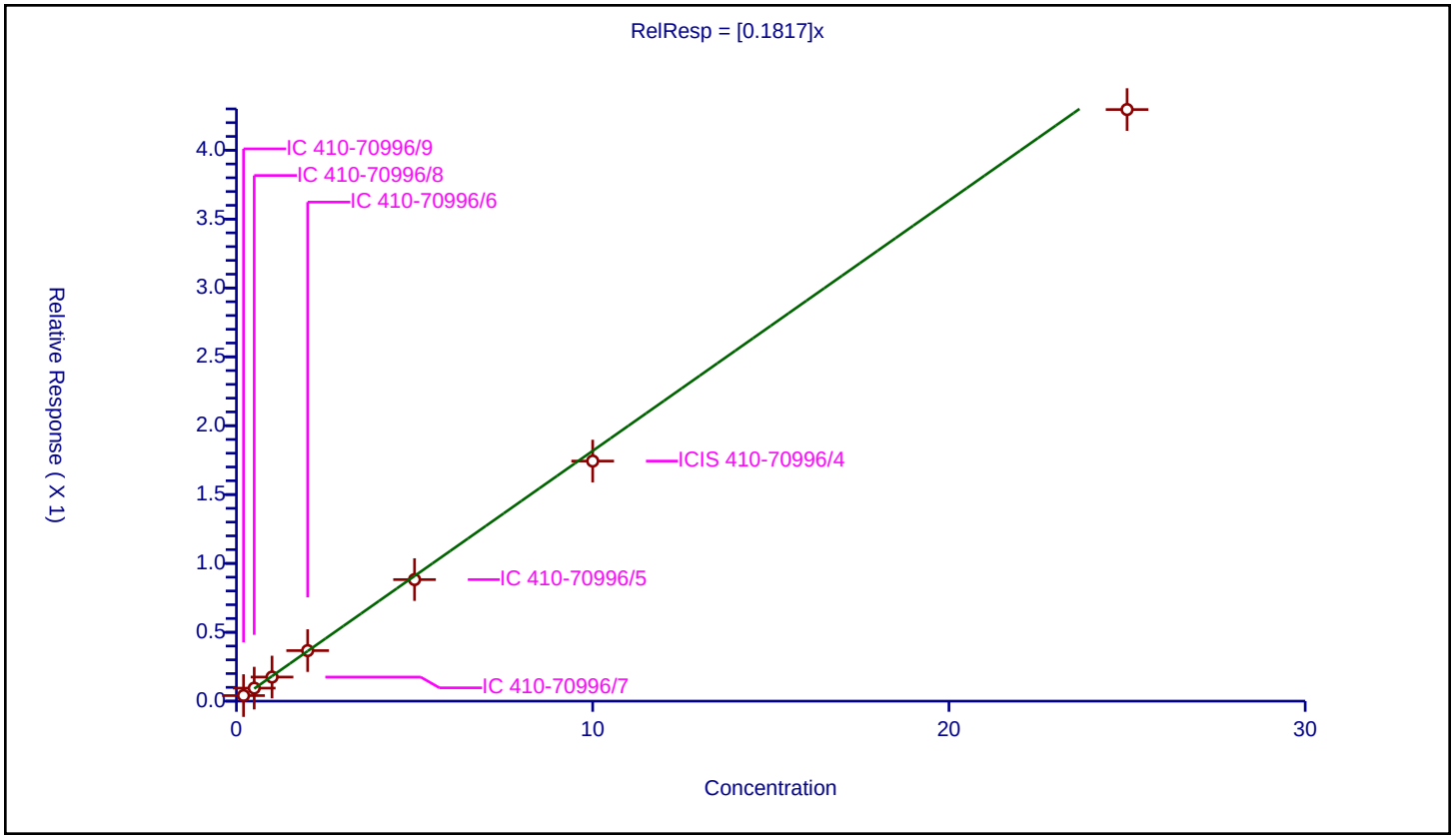
Curve Coefficients

Intercept:	0
Slope:	0.1817

Error Coefficients

Standard Error:	435000
Relative Standard Error:	5.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.040399	10.0	2204755.0	0.201995	Y
2	IC 410-70996/8	0.5	0.094423	10.0	2189287.0	0.188847	Y
3	IC 410-70996/7	1.0	0.174997	10.0	2211412.0	0.174997	Y
4	IC 410-70996/6	2.0	0.366958	10.0	2210035.0	0.183479	Y
5	IC 410-70996/5	5.0	0.882515	10.0	2225560.0	0.176503	Y
6	ICIS 410-70996/4	10.0	1.742989	10.0	2246480.0	0.174299	Y
7	IC 410-70996/3	25.0	4.29525	10.0	2249974.0	0.17181	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

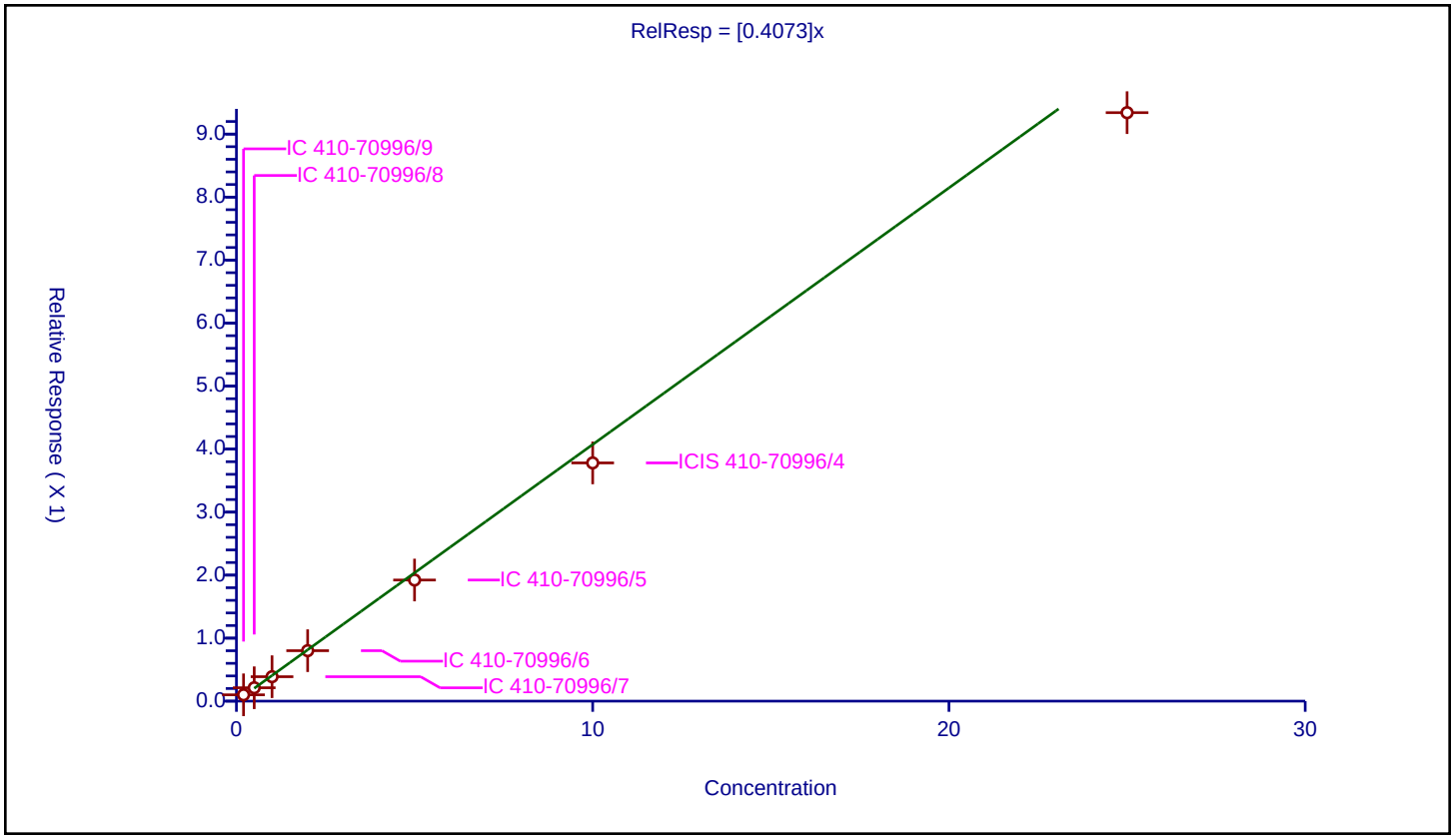
Curve Coefficients

Intercept:	0
Slope:	0.4073

Error Coefficients

Standard Error:	945000
Relative Standard Error:	11.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.100342	10.0	2204755.0	0.501711	Y
2	IC 410-70996/8	0.5	0.212512	10.0	2189287.0	0.425024	Y
3	IC 410-70996/7	1.0	0.387766	10.0	2211412.0	0.387766	Y
4	IC 410-70996/6	2.0	0.800992	10.0	2210035.0	0.400496	Y
5	IC 410-70996/5	5.0	1.922402	10.0	2225560.0	0.38448	Y
6	ICIS 410-70996/4	10.0	3.781062	10.0	2246480.0	0.378106	Y
7	IC 410-70996/3	25.0	9.340339	10.0	2249974.0	0.373614	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

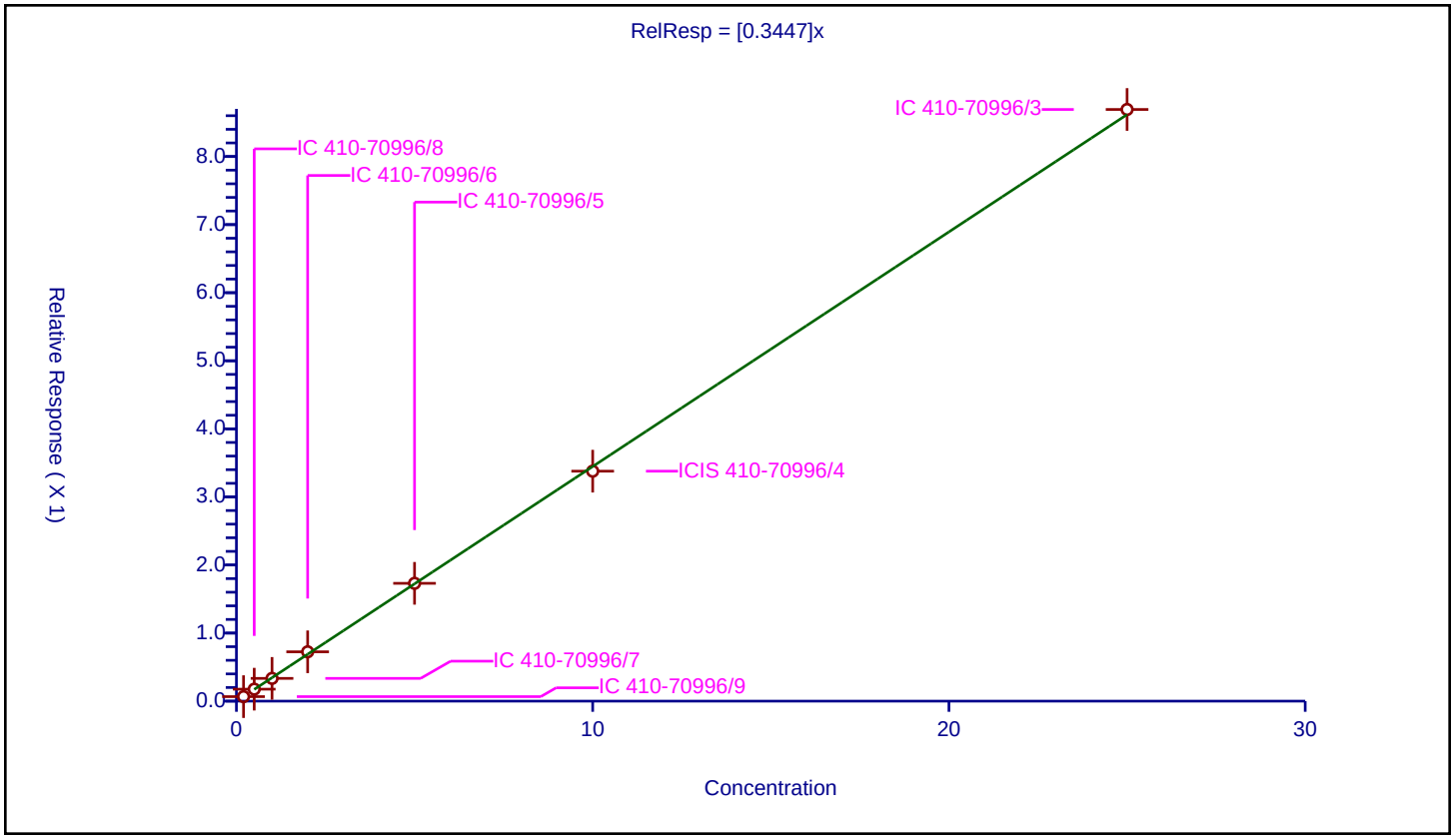
Curve Coefficients

Intercept:	0
Slope:	0.3447

Error Coefficients

Standard Error:	874000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.066443	10.0	2204755.0	0.332214	Y
2	IC 410-70996/8	0.5	0.175993	10.0	2189287.0	0.351987	Y
3	IC 410-70996/7	1.0	0.334406	10.0	2211412.0	0.334406	Y
4	IC 410-70996/6	2.0	0.724798	10.0	2210035.0	0.362399	Y
5	IC 410-70996/5	5.0	1.7308	10.0	2225560.0	0.34616	Y
6	ICIS 410-70996/4	10.0	3.378227	10.0	2246480.0	0.337823	Y
7	IC 410-70996/3	25.0	8.691198	10.0	2249974.0	0.347648	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

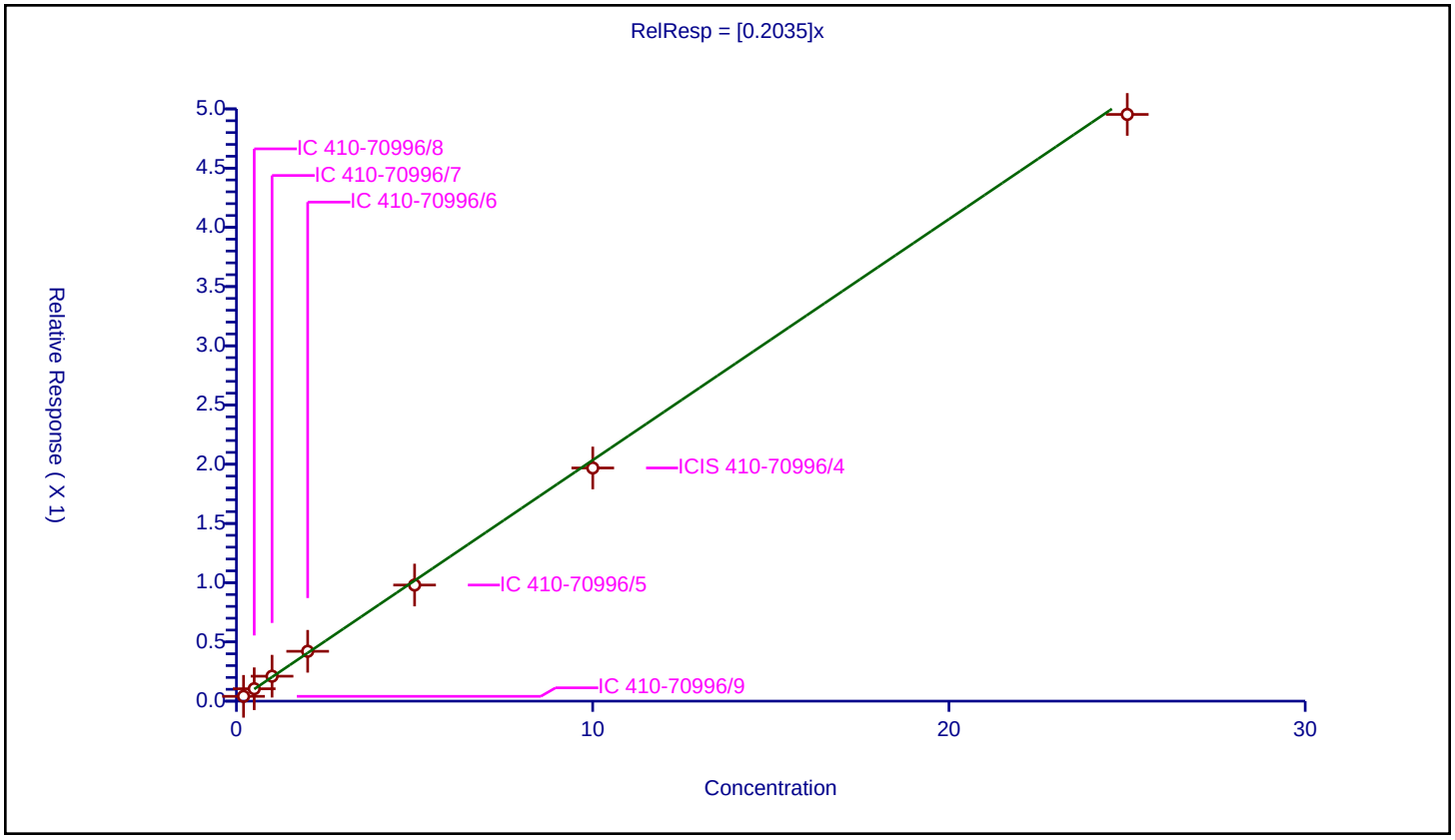
Curve Coefficients

Intercept:	0
Slope:	0.2035

Error Coefficients

Standard Error:	499000
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 410-70996/9	0.200043	0.040594	10.0	2204755.0	0.202927	Y
2	IC 410-70996/8	0.500108	0.104742	10.0	2189287.0	0.209439	Y
3	IC 410-70996/7	1.000215	0.210594	10.0	2211412.0	0.210549	Y
4	IC 410-70996/6	2.00043	0.420903	10.0	2210035.0	0.210406	Y
5	IC 410-70996/5	5.001075	0.98027	10.0	2225560.0	0.196012	Y
6	ICIS 410-70996/4	10.00215	1.968457	10.0	2246480.0	0.196803	Y
7	IC 410-70996/3	25.005375	4.953173	10.0	2249974.0	0.198084	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

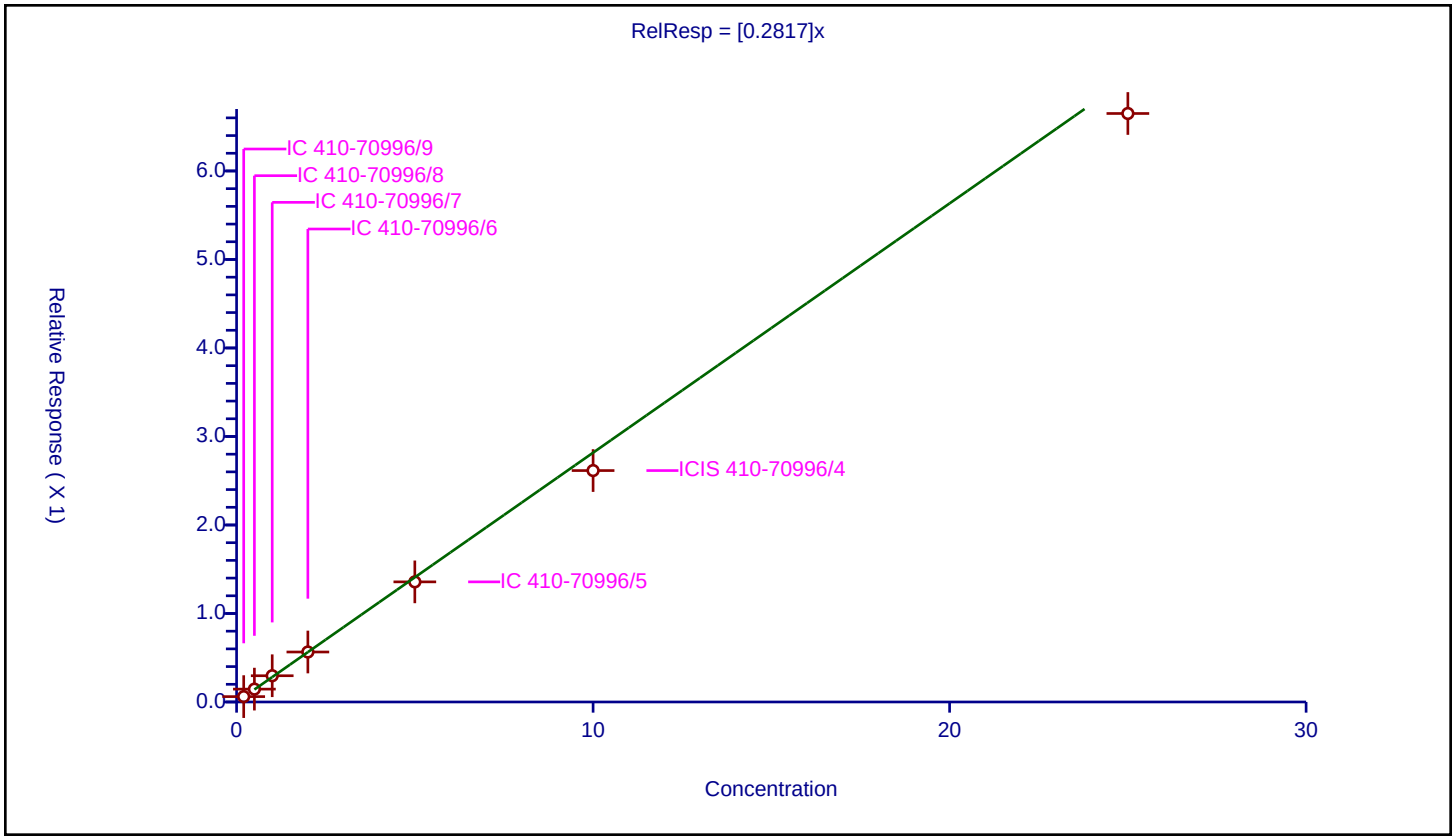
Curve Coefficients

Intercept:	0
Slope:	0.2817

Error Coefficients

Standard Error:	670000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.060574	10.0	2204755.0	0.302868	Y
2	IC 410-70996/8	0.5	0.145499	10.0	2189287.0	0.290999	Y
3	IC 410-70996/7	1.0	0.296648	10.0	2211412.0	0.296648	Y
4	IC 410-70996/6	2.0	0.564756	10.0	2210035.0	0.282378	Y
5	IC 410-70996/5	5.0	1.357115	10.0	2225560.0	0.271423	Y
6	ICIS 410-70996/4	10.0	2.614788	10.0	2246480.0	0.261479	Y
7	IC 410-70996/3	25.0	6.649499	10.0	2249974.0	0.26598	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

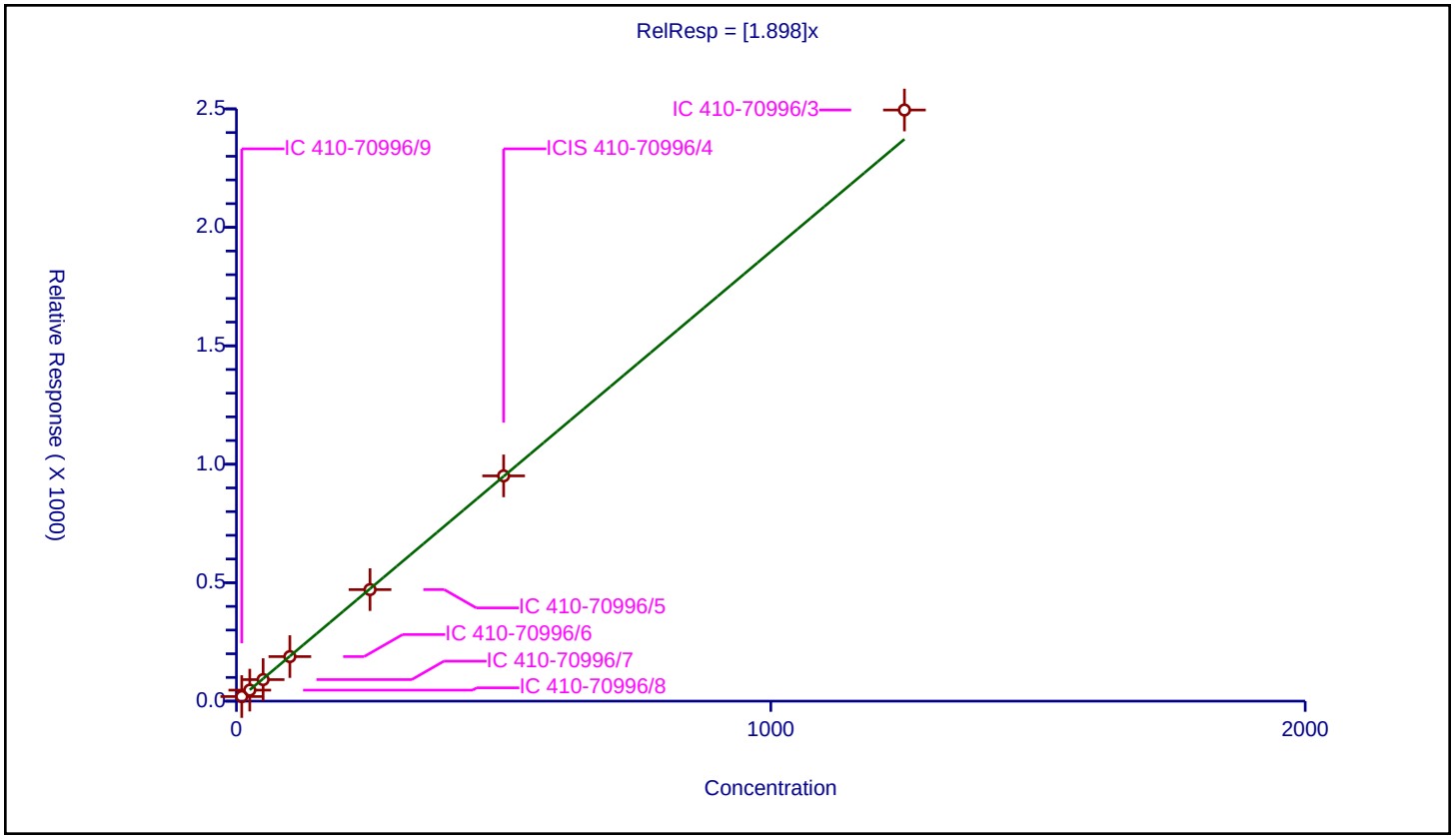
Curve Coefficients

Intercept:	0
Slope:	1.898

Error Coefficients

Standard Error:	3980000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	10.000292	19.44882	50.0	184731.0	1.944825	Y
2	IC 410-70996/8	25.000729	46.526395	50.0	195834.0	1.861002	Y
3	IC 410-70996/7	50.001458	90.859368	50.0	201206.0	1.817134	Y
4	IC 410-70996/6	100.002917	187.990007	50.0	195329.0	1.879845	Y
5	IC 410-70996/5	250.007292	470.811266	50.0	183343.0	1.88319	Y
6	ICIS 410-70996/4	500.014585	950.905994	50.0	186094.0	1.901757	Y
7	IC 410-70996/3	1250.036462	2495.255991	50.0	177877.0	1.996147	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

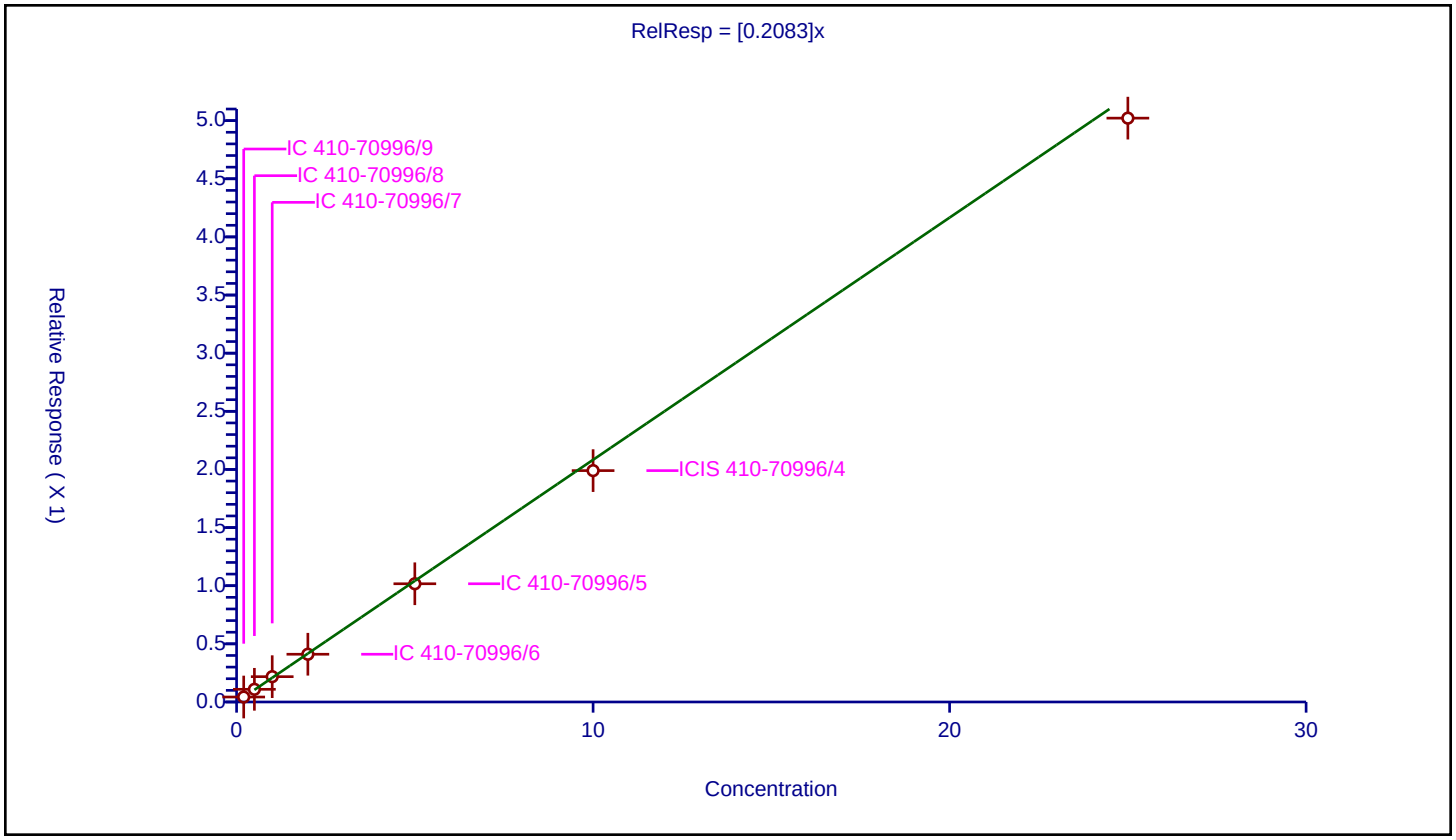
Curve Coefficients

Intercept:	0
Slope:	0.2083

Error Coefficients

Standard Error:	506000
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 410-70996/9	0.2	0.042762	10.0	2204755.0	0.213811	Y
2	IC 410-70996/8	0.5	0.10899	10.0	2189287.0	0.21798	Y
3	IC 410-70996/7	1.0	0.217793	10.0	2211412.0	0.217793	Y
4	IC 410-70996/6	2.0	0.410546	10.0	2210035.0	0.205273	Y
5	IC 410-70996/5	5.0	1.016944	10.0	2225560.0	0.203389	Y
6	ICIS 410-70996/4	10.0	1.989984	10.0	2246480.0	0.198998	Y
7	IC 410-70996/3	25.0	5.021511	10.0	2249974.0	0.20086	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

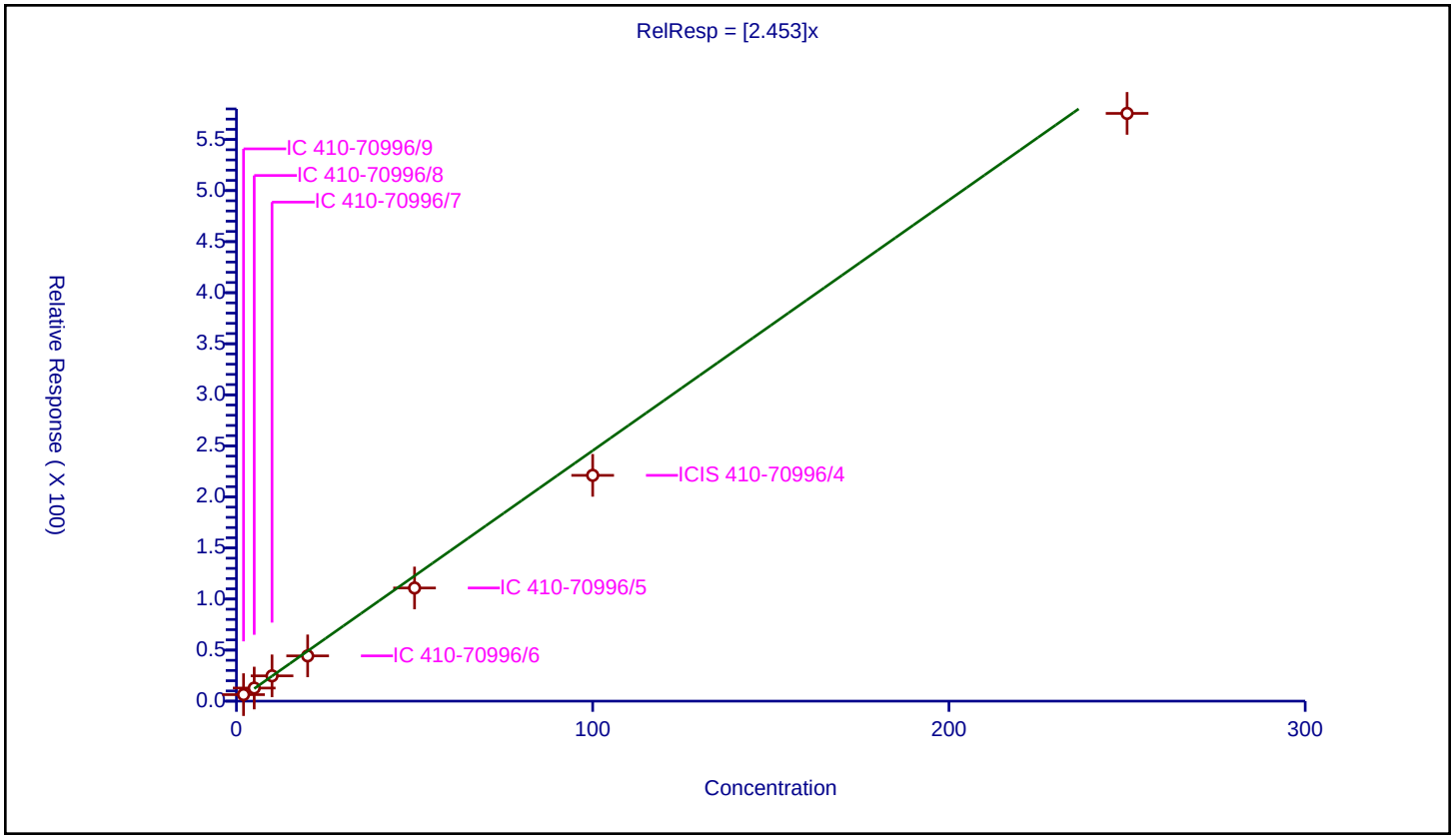
Curve Coefficients

Intercept:	0
Slope:	2.453

Error Coefficients

Standard Error:	920000
Relative Standard Error:	14.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.966

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	2.0	6.371697	50.0	184731.0	3.185849	Y
2	IC 410-70996/8	5.0	12.822595	50.0	195834.0	2.564519	Y
3	IC 410-70996/7	10.0	24.764172	50.0	201206.0	2.476417	Y
4	IC 410-70996/6	20.0	44.336478	50.0	195329.0	2.216824	Y
5	IC 410-70996/5	50.0	110.805703	50.0	183343.0	2.216114	Y
6	ICIS 410-70996/4	100.0	221.132062	50.0	186094.0	2.211321	Y
7	IC 410-70996/3	250.0	575.589593	50.0	177877.0	2.302358	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

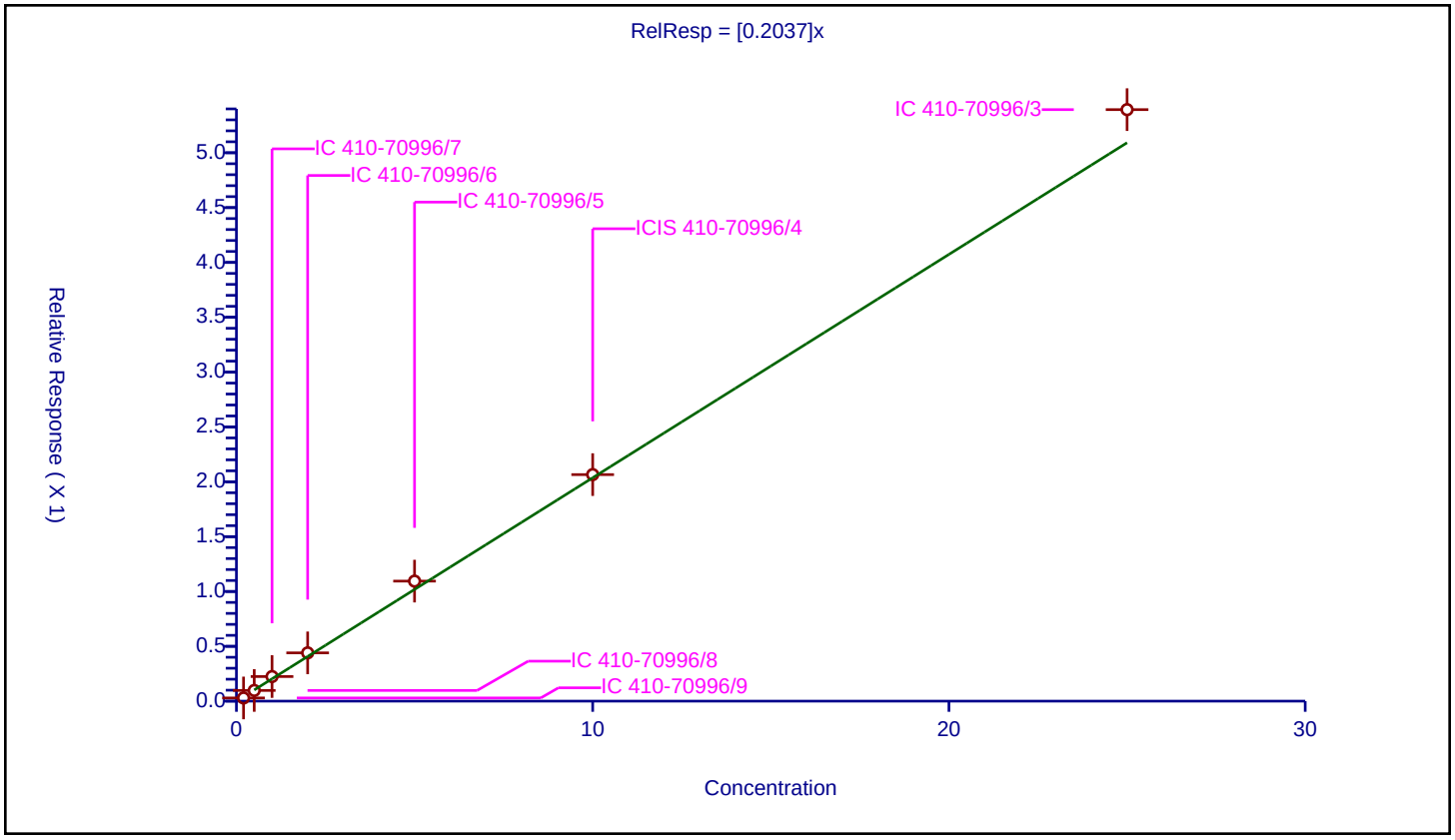
Curve Coefficients

Intercept:	0
Slope:	0.2037

Error Coefficients

Standard Error:	542000
Relative Standard Error:	13.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.02906	10.0	2204755.0	0.1453	Y
2	IC 410-70996/8	0.5	0.097397	10.0	2189287.0	0.194794	Y
3	IC 410-70996/7	1.0	0.224309	10.0	2211412.0	0.224309	Y
4	IC 410-70996/6	2.0	0.440237	10.0	2210035.0	0.220119	Y
5	IC 410-70996/5	5.0	1.094354	10.0	2225560.0	0.218871	Y
6	ICIS 410-70996/4	10.0	2.065565	10.0	2246480.0	0.206556	Y
7	IC 410-70996/3	25.0	5.393209	10.0	2249974.0	0.215728	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

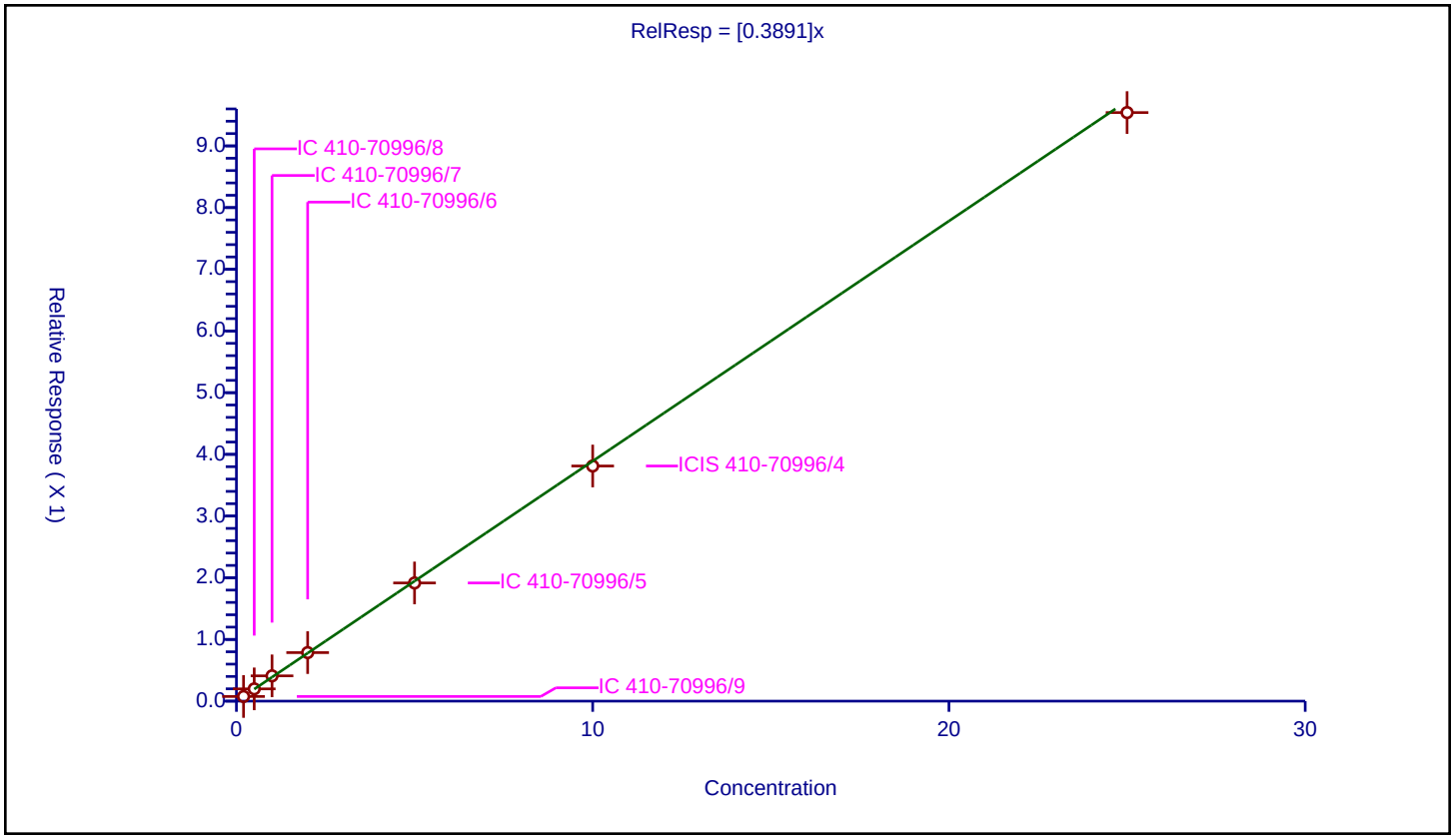
Curve Coefficients

Intercept:	0
Slope:	0.3891

Error Coefficients

Standard Error:	963000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.075405	10.0	2204755.0	0.377026	Y
2	IC 410-70996/8	0.5	0.198695	10.0	2189287.0	0.39739	Y
3	IC 410-70996/7	1.0	0.409937	10.0	2211412.0	0.409937	Y
4	IC 410-70996/6	2.0	0.786752	10.0	2210035.0	0.393376	Y
5	IC 410-70996/5	5.0	1.915868	10.0	2225560.0	0.383174	Y
6	ICIS 410-70996/4	10.0	3.811434	10.0	2246480.0	0.381143	Y
7	IC 410-70996/3	25.0	9.540501	10.0	2249974.0	0.38162	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

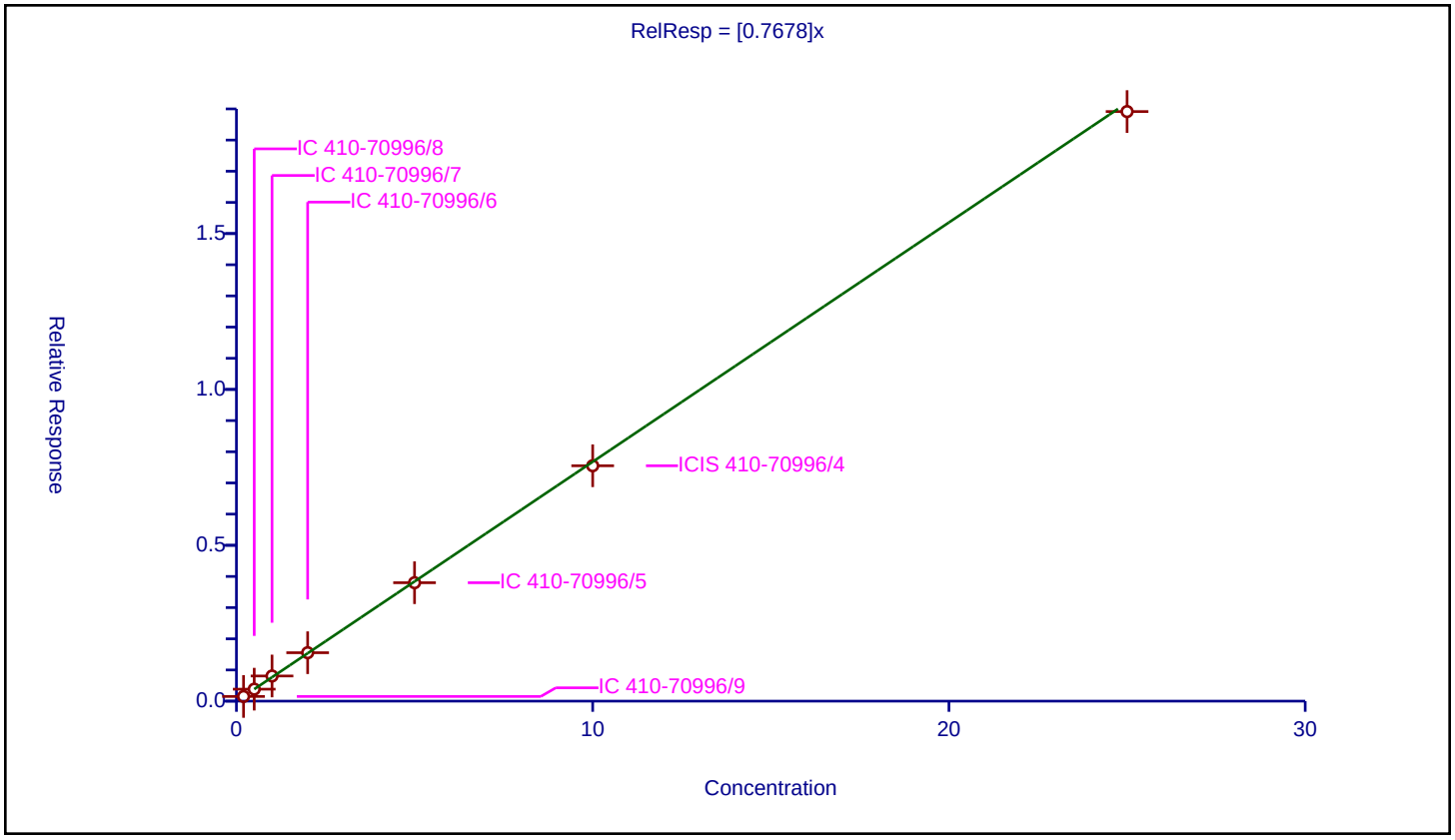
Curve Coefficients

Intercept:	0
Slope:	0.7678

Error Coefficients

Standard Error:	1910000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.150298	10.0	2204755.0	0.751489	Y
2	IC 410-70996/8	0.5	0.38397	10.0	2189287.0	0.76794	Y
3	IC 410-70996/7	1.0	0.807	10.0	2211412.0	0.807	Y
4	IC 410-70996/6	2.0	1.553564	10.0	2210035.0	0.776782	Y
5	IC 410-70996/5	5.0	3.799632	10.0	2225560.0	0.759926	Y
6	ICIS 410-70996/4	10.0	7.550835	10.0	2246480.0	0.755084	Y
7	IC 410-70996/3	25.0	18.914672	10.0	2249974.0	0.756587	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

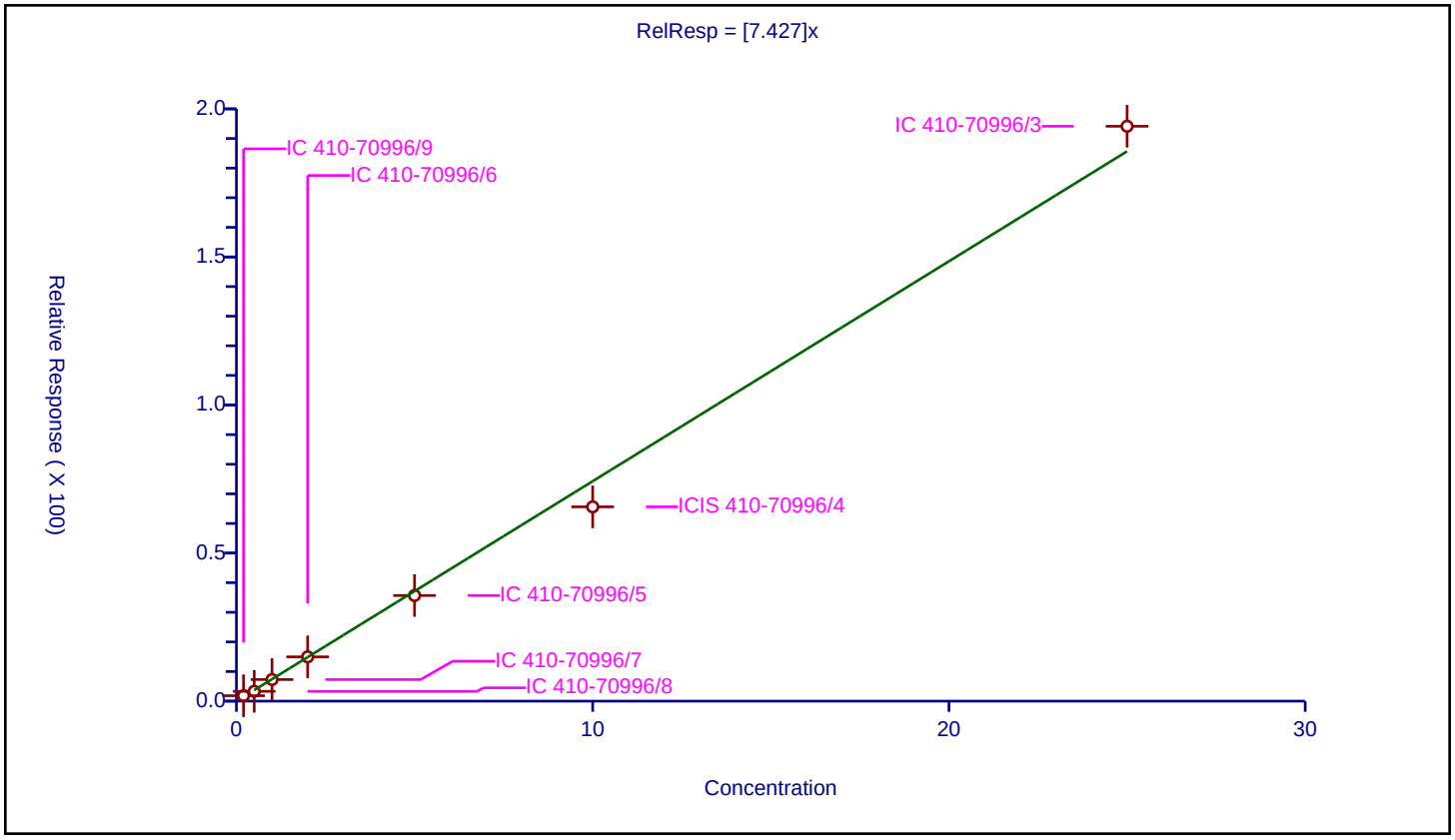
Curve Coefficients

Intercept:	0
Slope:	7.427

Error Coefficients

Standard Error:	305000
Relative Standard Error:	11.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	1.827252	50.0	184731.0	9.136258	Y
2	IC 410-70996/8	0.5	3.310457	50.0	195834.0	6.620914	Y
3	IC 410-70996/7	1.0	7.28855	50.0	201206.0	7.28855	Y
4	IC 410-70996/6	2.0	14.95656	50.0	195329.0	7.47828	Y
5	IC 410-70996/5	5.0	35.676028	50.0	183343.0	7.135206	Y
6	ICIS 410-70996/4	10.0	65.6206	50.0	186094.0	6.56206	Y
7	IC 410-70996/3	25.0	194.136398	50.0	177877.0	7.765456	Y



Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

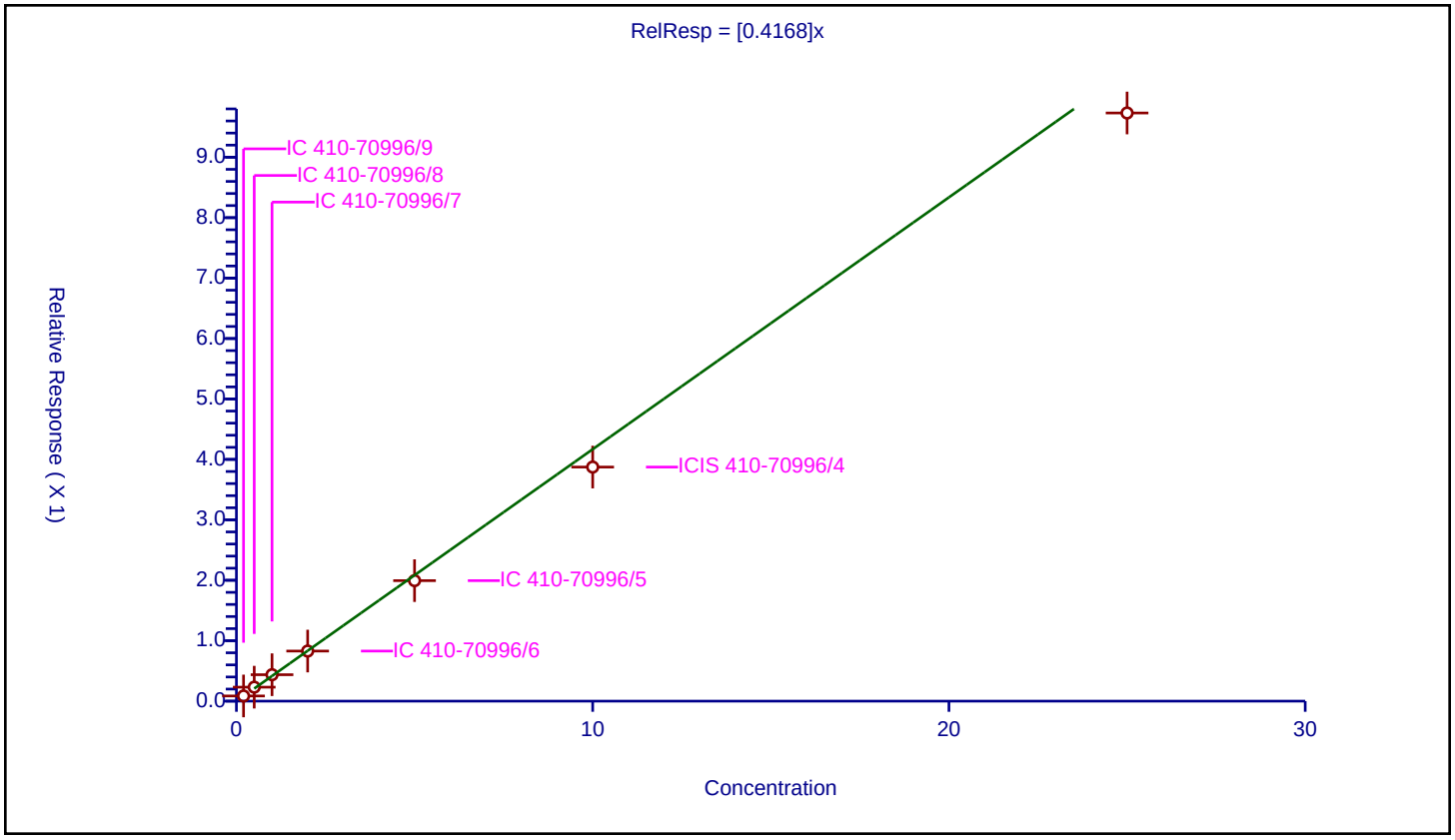
Curve Coefficients

Intercept:	0
Slope:	0.4168

Error Coefficients

Standard Error:	983000
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 410-70996/9	0.2	0.085656	10.0	2204755.0	0.428279	Y
2	IC 410-70996/8	0.5	0.231144	10.0	2189287.0	0.462287	Y
3	IC 410-70996/7	1.0	0.437268	10.0	2211412.0	0.437268	Y
4	IC 410-70996/6	2.0	0.828933	10.0	2210035.0	0.414466	Y
5	IC 410-70996/5	5.0	1.99388	10.0	2225560.0	0.398776	Y
6	ICIS 410-70996/4	10.0	3.873153	10.0	2246480.0	0.387315	Y
7	IC 410-70996/3	25.0	9.732019	10.0	2249974.0	0.389281	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

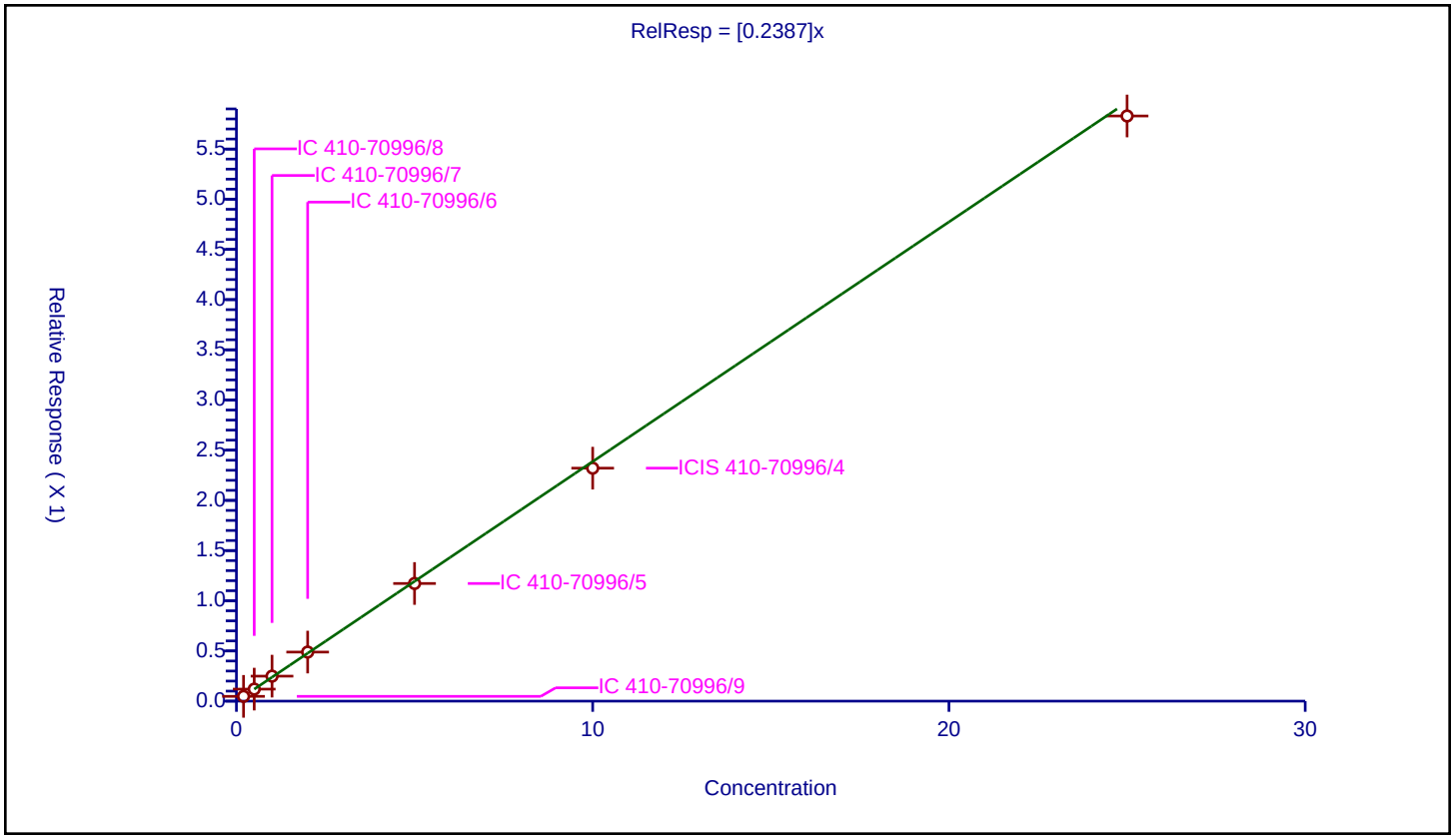
Curve Coefficients

Intercept:	0
Slope:	0.2387

Error Coefficients

Standard Error:	588000
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 410-70996/9	0.2	0.047633	10.0	2204755.0	0.238167	Y
2	IC 410-70996/8	0.5	0.119665	10.0	2189287.0	0.239329	Y
3	IC 410-70996/7	1.0	0.249144	10.0	2211412.0	0.249144	Y
4	IC 410-70996/6	2.0	0.488933	10.0	2210035.0	0.244467	Y
5	IC 410-70996/5	5.0	1.172145	10.0	2225560.0	0.234429	Y
6	ICIS 410-70996/4	10.0	2.32108	10.0	2246480.0	0.232108	Y
7	IC 410-70996/3	25.0	5.829525	10.0	2249974.0	0.233181	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

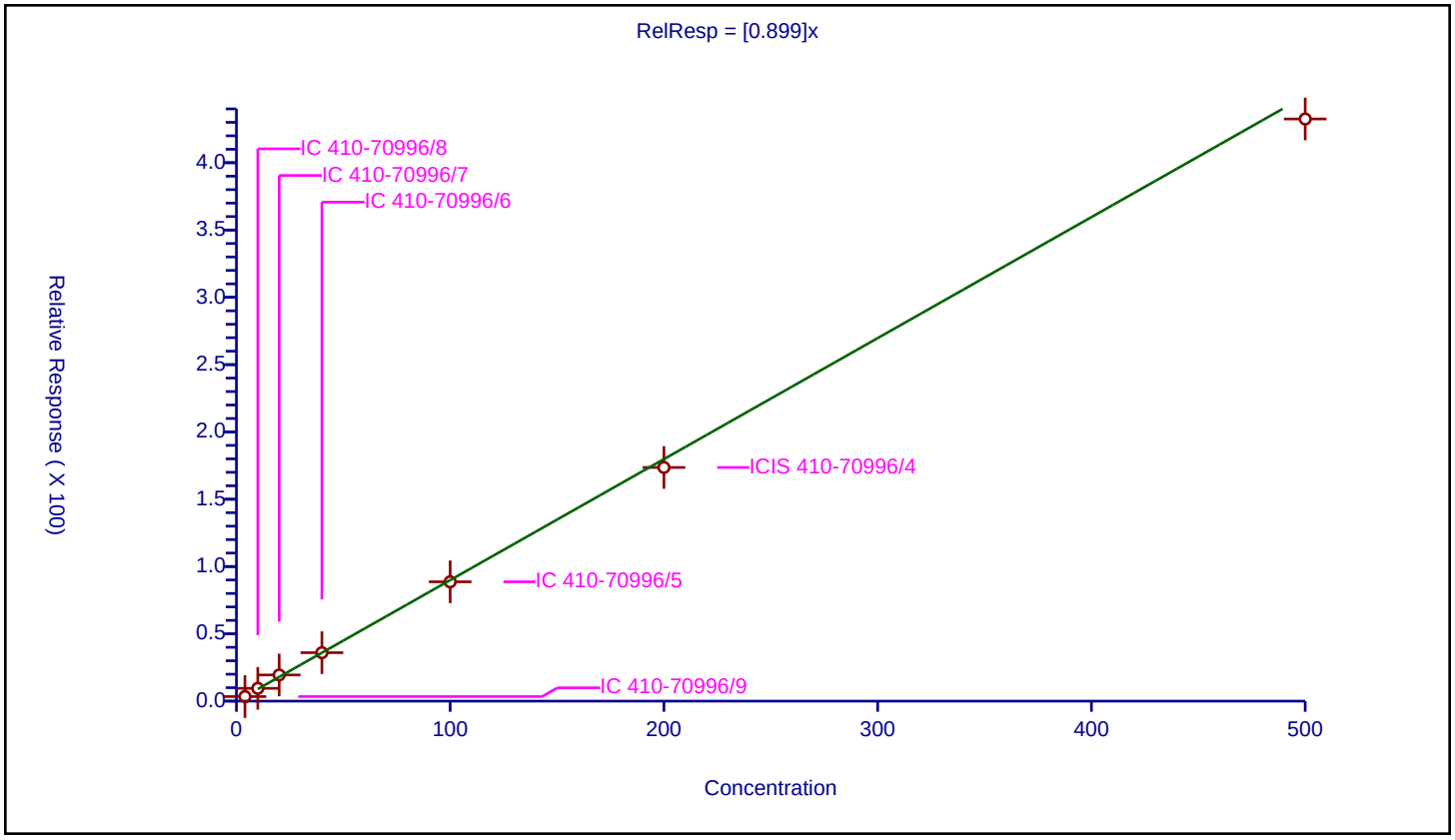
Curve Coefficients

Intercept:	0
Slope:	0.899

Error Coefficients

Standard Error:	697000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	4.0	3.398996	50.0	184731.0	0.849749	Y
2	IC 410-70996/8	10.0	9.516223	50.0	195834.0	0.951622	Y
3	IC 410-70996/7	20.0	19.445245	50.0	201206.0	0.972262	Y
4	IC 410-70996/6	40.0	35.997983	50.0	195329.0	0.89995	Y
5	IC 410-70996/5	100.0	88.660325	50.0	183343.0	0.886603	Y
6	ICIS 410-70996/4	200.0	173.59399	50.0	186094.0	0.86797	Y
7	IC 410-70996/3	500.0	432.502516	50.0	177877.0	0.865005	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

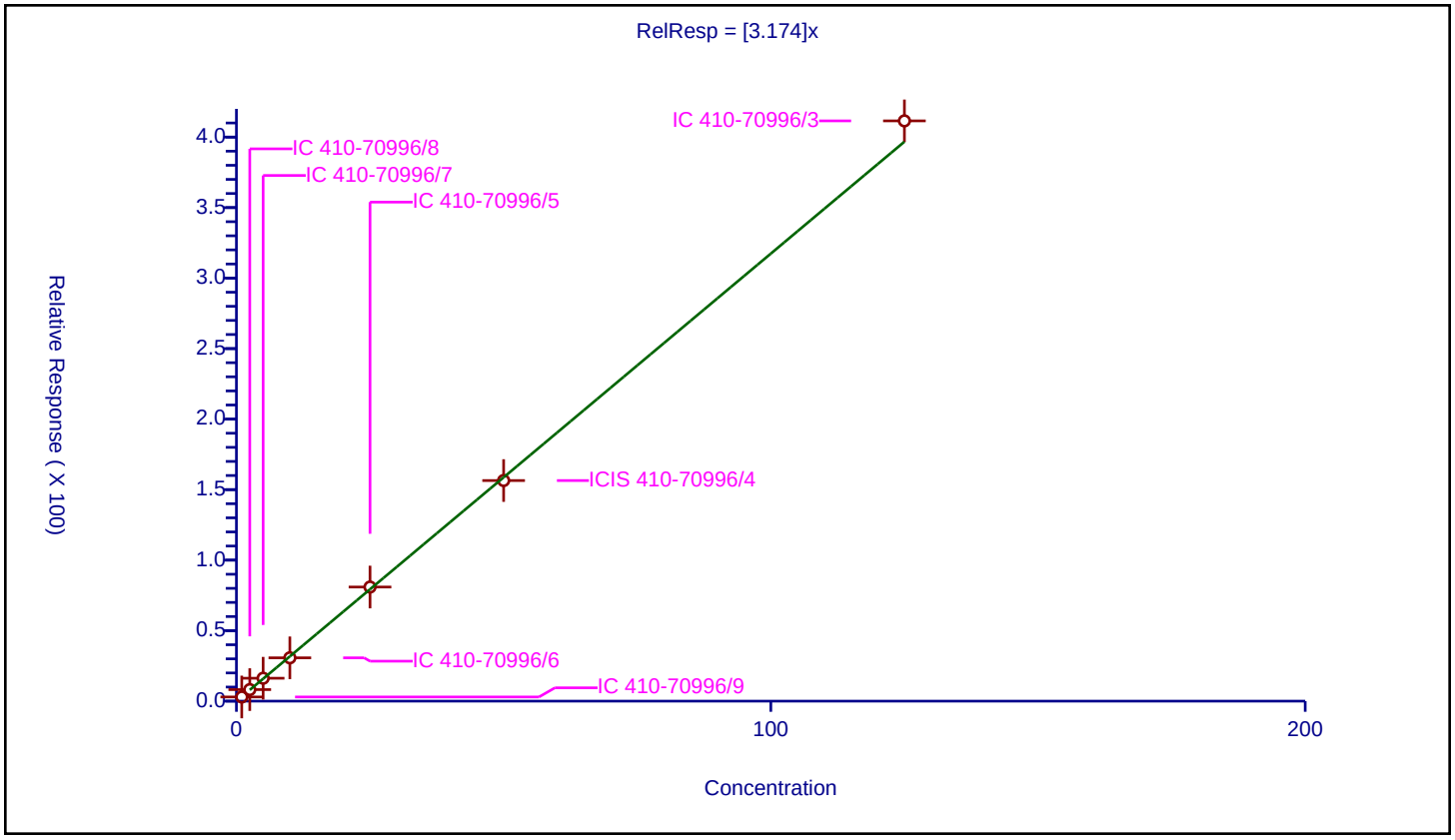
Curve Coefficients

Intercept:	0
Slope:	3.174

Error Coefficients

Standard Error:	657000
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 410-70996/9	1.0	2.958626	50.0	184731.0	2.958626	Y
2	IC 410-70996/8	2.5	8.187036	50.0	195834.0	3.274814	Y
3	IC 410-70996/7	5.0	16.260449	50.0	201206.0	3.25209	Y
4	IC 410-70996/6	10.0	30.729436	50.0	195329.0	3.072944	Y
5	IC 410-70996/5	25.0	80.91637	50.0	183343.0	3.236655	Y
6	ICIS 410-70996/4	50.0	156.440294	50.0	186094.0	3.128806	Y
7	IC 410-70996/3	125.0	411.493616	50.0	177877.0	3.291949	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

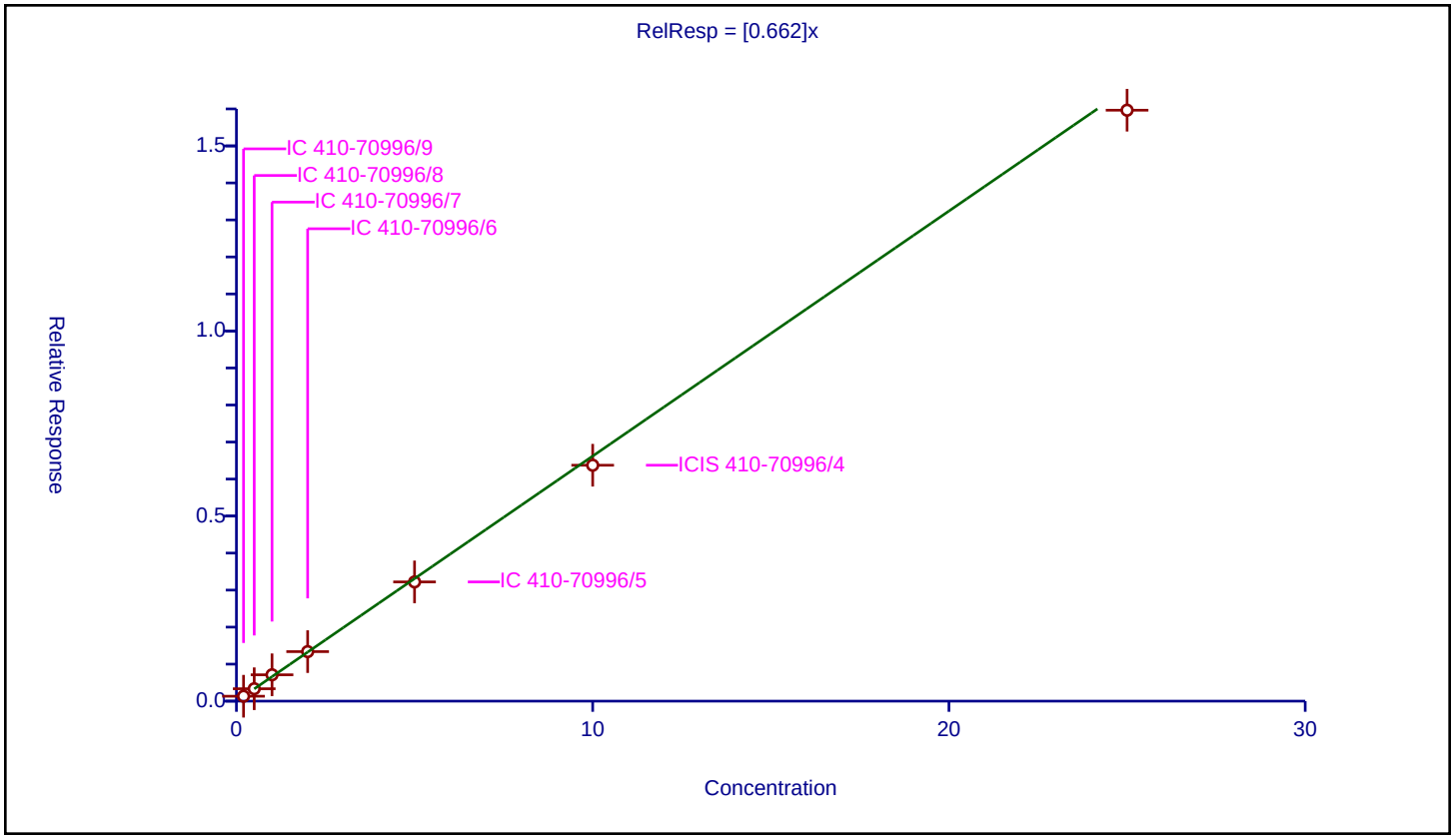
Curve Coefficients

Intercept:	0
Slope:	0.662

Error Coefficients

Standard Error:	1610000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.132704	10.0	2204755.0	0.66352	Y
2	IC 410-70996/8	0.5	0.334684	10.0	2189287.0	0.669369	Y
3	IC 410-70996/7	1.0	0.712292	10.0	2211412.0	0.712292	Y
4	IC 410-70996/6	2.0	1.337915	10.0	2210035.0	0.668958	Y
5	IC 410-70996/5	5.0	3.221028	10.0	2225560.0	0.644206	Y
6	ICIS 410-70996/4	10.0	6.373162	10.0	2246480.0	0.637316	Y
7	IC 410-70996/3	25.0	15.965087	10.0	2249974.0	0.638603	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

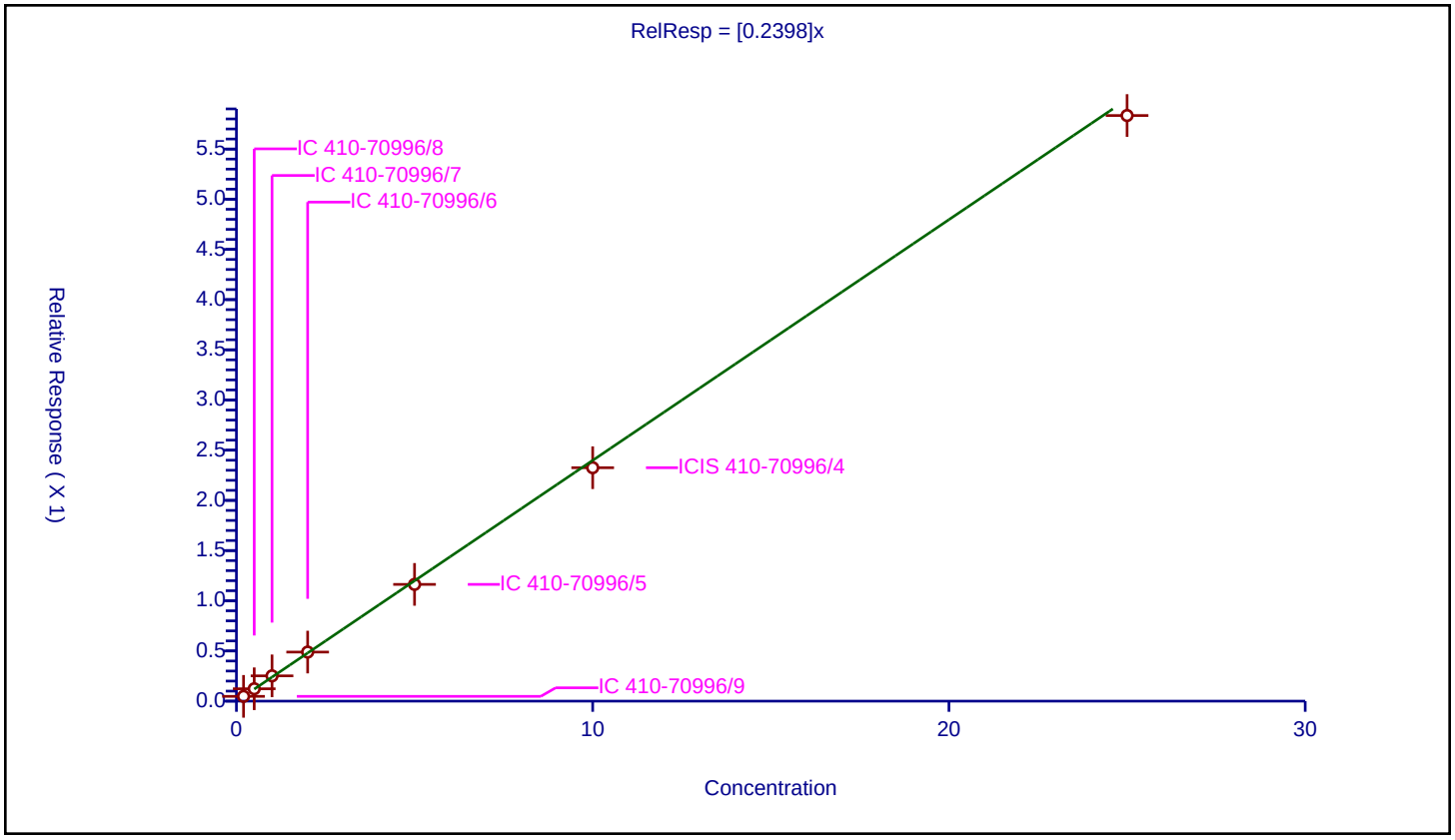
Curve Coefficients

Intercept:	0
Slope:	0.2398

Error Coefficients

Standard Error:	589000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.047525	10.0	2204755.0	0.237623	Y
2	IC 410-70996/8	0.5	0.123159	10.0	2189287.0	0.246318	Y
3	IC 410-70996/7	1.0	0.251902	10.0	2211412.0	0.251902	Y
4	IC 410-70996/6	2.0	0.488933	10.0	2210035.0	0.244467	Y
5	IC 410-70996/5	5.0	1.163105	10.0	2225560.0	0.232621	Y
6	ICIS 410-70996/4	10.0	2.325505	10.0	2246480.0	0.23255	Y
7	IC 410-70996/3	25.0	5.83393	10.0	2249974.0	0.233357	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

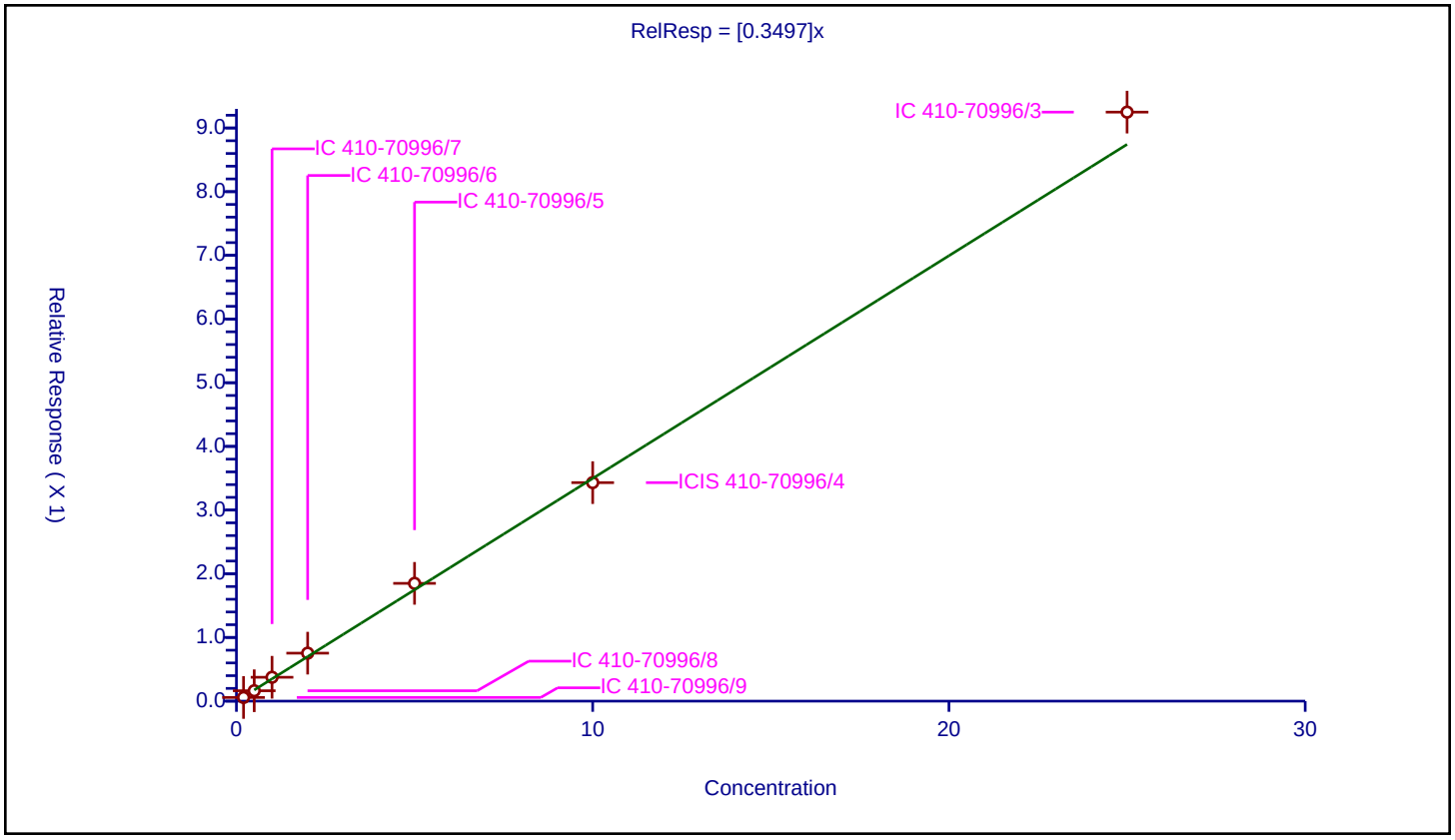
Curve Coefficients

Intercept:	0
Slope:	0.3497

Error Coefficients

Standard Error:	925000
Relative Standard Error:	9.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.057344	10.0	2204755.0	0.286721	Y
2	IC 410-70996/8	0.5	0.163195	10.0	2189287.0	0.326389	Y
3	IC 410-70996/7	1.0	0.375014	10.0	2211412.0	0.375014	Y
4	IC 410-70996/6	2.0	0.753649	10.0	2210035.0	0.376824	Y
5	IC 410-70996/5	5.0	1.849508	10.0	2225560.0	0.369902	Y
6	ICIS 410-70996/4	10.0	3.431542	10.0	2246480.0	0.343154	Y
7	IC 410-70996/3	25.0	9.249267	10.0	2249974.0	0.369971	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

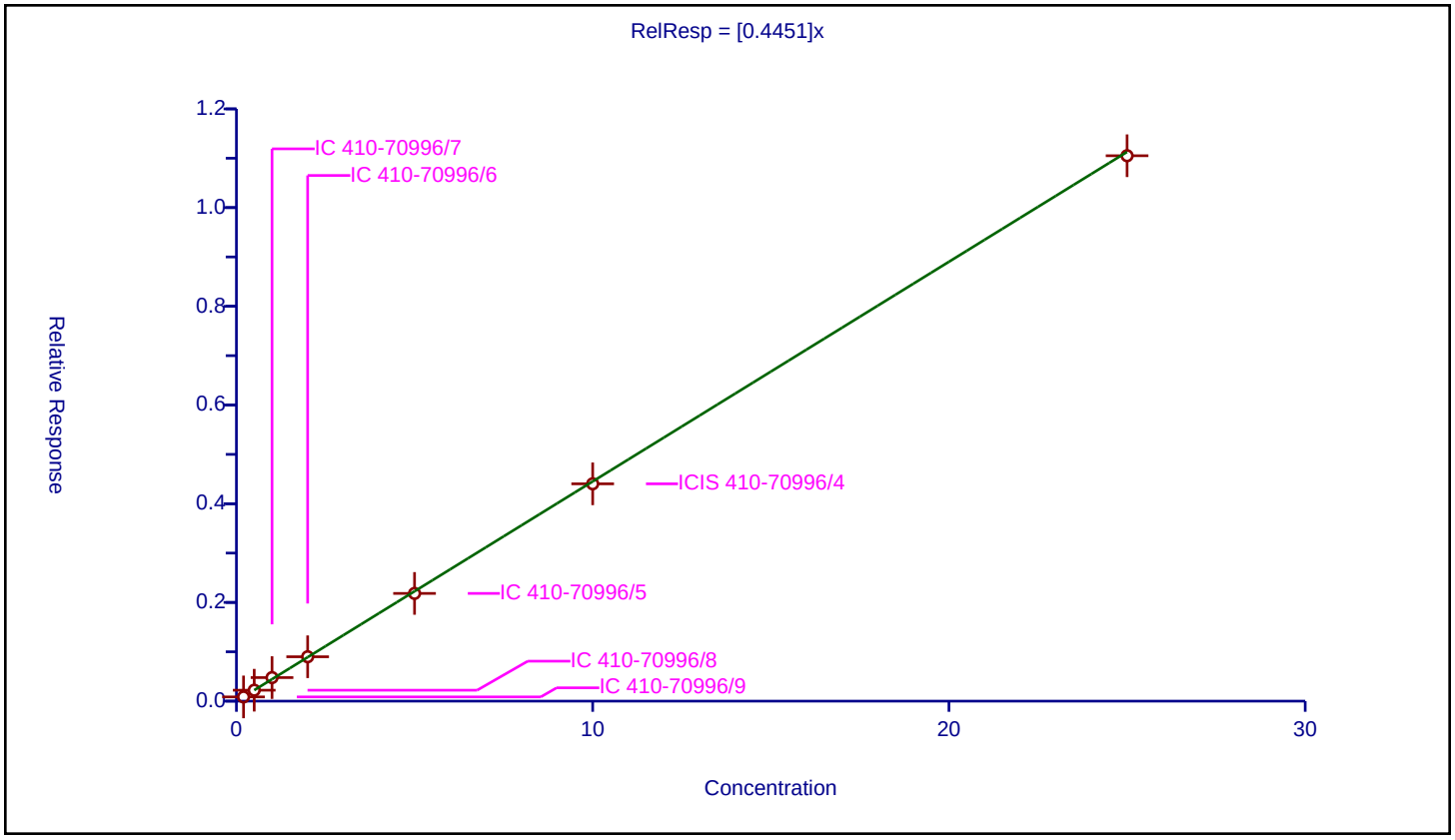
Curve Coefficients

Intercept:	0
Slope:	0.4451

Error Coefficients

Standard Error:	1110000
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 410-70996/9	0.2	0.085397	10.0	2204755.0	0.426986	Y
2	IC 410-70996/8	0.5	0.221574	10.0	2189287.0	0.443149	Y
3	IC 410-70996/7	1.0	0.477121	10.0	2211412.0	0.477121	Y
4	IC 410-70996/6	2.0	0.89933	10.0	2210035.0	0.449665	Y
5	IC 410-70996/5	5.0	2.182687	10.0	2225560.0	0.436537	Y
6	ICIS 410-70996/4	10.0	4.403355	10.0	2246480.0	0.440336	Y
7	IC 410-70996/3	25.0	11.050888	10.0	2249974.0	0.442036	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

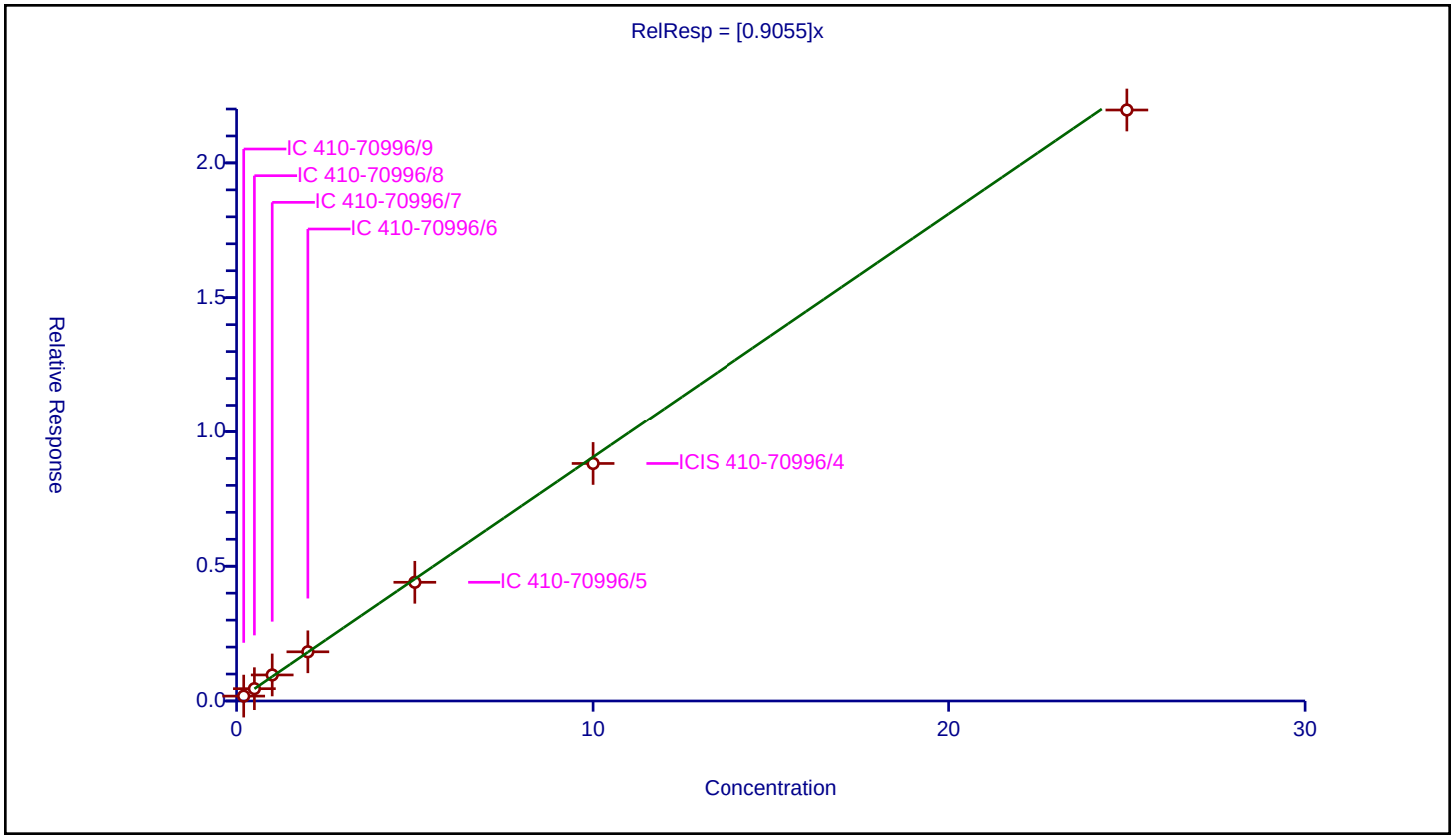
Curve Coefficients

Intercept:	0
Slope:	0.9055

Error Coefficients

Standard Error:	2220000
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 410-70996/9	0.2	0.181231	10.0	2204755.0	0.906155	Y
2	IC 410-70996/8	0.5	0.456413	10.0	2189287.0	0.912827	Y
3	IC 410-70996/7	1.0	0.96622	10.0	2211412.0	0.96622	Y
4	IC 410-70996/6	2.0	1.825016	10.0	2210035.0	0.912508	Y
5	IC 410-70996/5	5.0	4.40384	10.0	2225560.0	0.880768	Y
6	ICIS 410-70996/4	10.0	8.812262	10.0	2246480.0	0.881226	Y
7	IC 410-70996/3	25.0	21.96356	10.0	2249974.0	0.878542	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

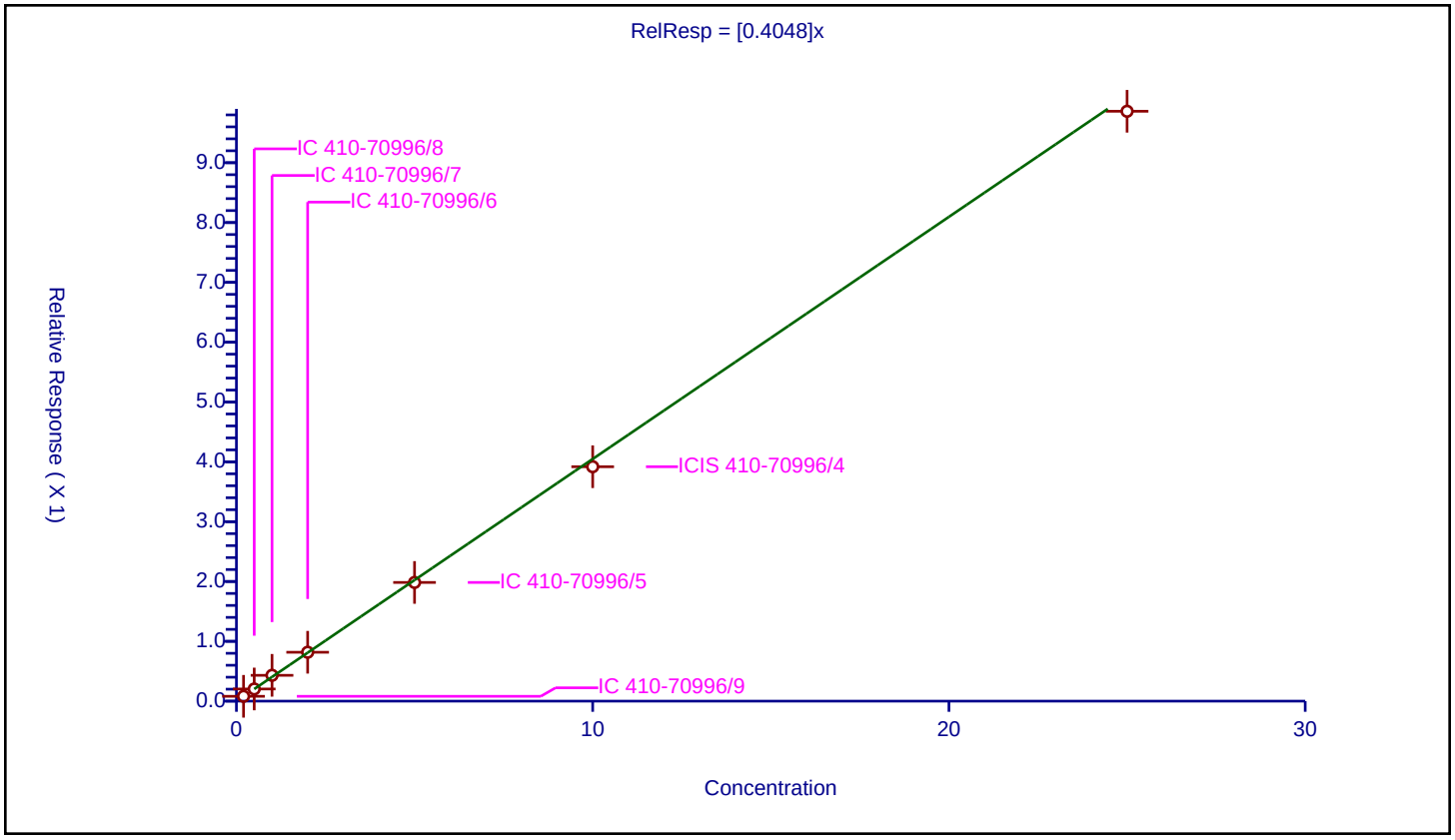
Curve Coefficients

Intercept:	0
Slope:	0.4048

Error Coefficients

Standard Error:	995000
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 410-70996/9	0.2	0.08083	10.0	2204755.0	0.404149	Y
2	IC 410-70996/8	0.5	0.203071	10.0	2189287.0	0.406141	Y
3	IC 410-70996/7	1.0	0.431525	10.0	2211412.0	0.431525	Y
4	IC 410-70996/6	2.0	0.817069	10.0	2210035.0	0.408534	Y
5	IC 410-70996/5	5.0	1.984	10.0	2225560.0	0.3968	Y
6	ICIS 410-70996/4	10.0	3.918731	10.0	2246480.0	0.391873	Y
7	IC 410-70996/3	25.0	9.860341	10.0	2249974.0	0.394414	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

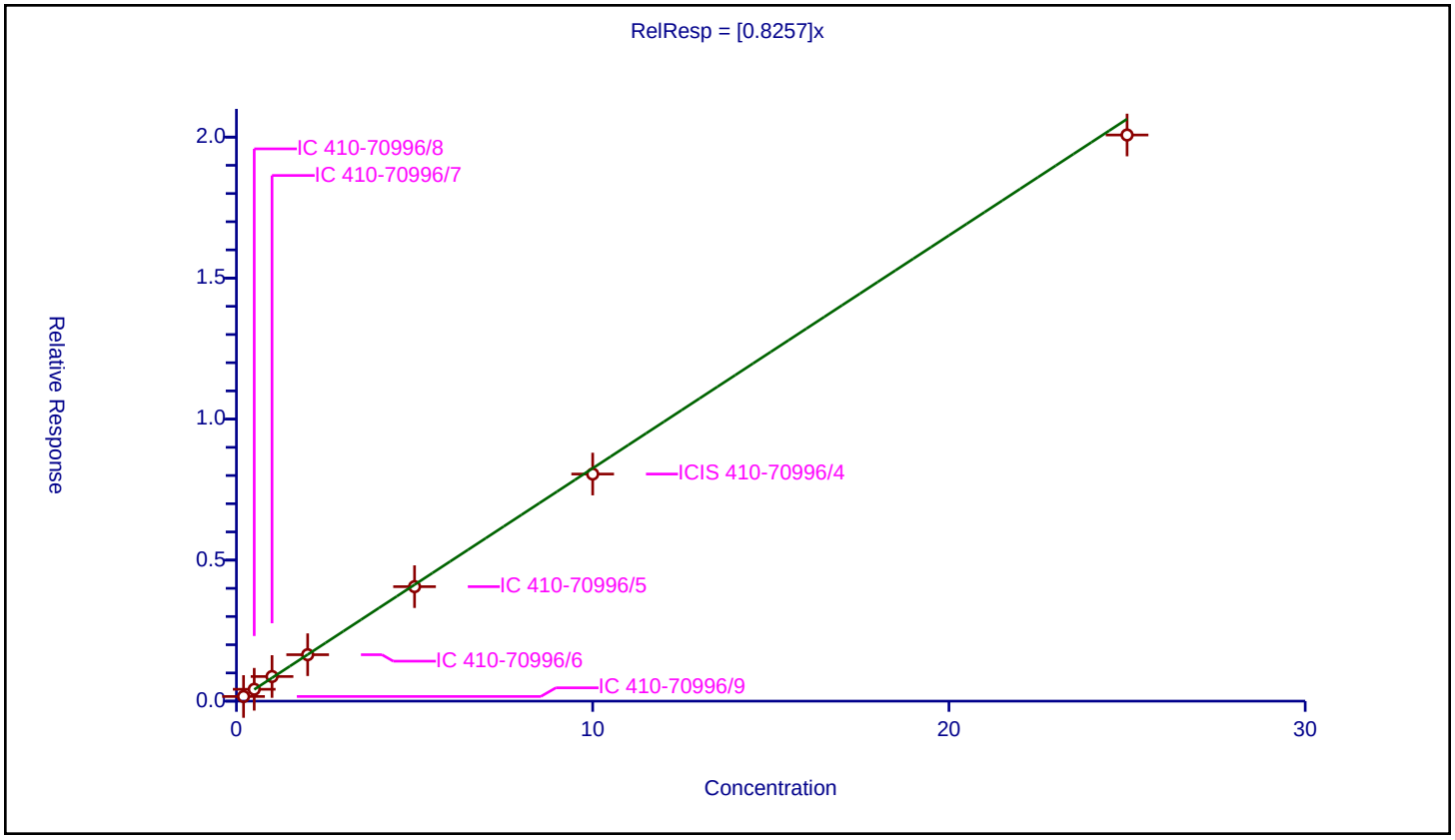
Curve Coefficients

Intercept:	0
Slope:	0.8257

Error Coefficients

Standard Error:	2030000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.164472	10.0	2204755.0	0.822359	Y
2	IC 410-70996/8	0.5	0.420635	10.0	2189287.0	0.841269	Y
3	IC 410-70996/7	1.0	0.872831	10.0	2211412.0	0.872831	Y
4	IC 410-70996/6	2.0	1.646105	10.0	2210035.0	0.823053	Y
5	IC 410-70996/5	5.0	4.059473	10.0	2225560.0	0.811895	Y
6	ICIS 410-70996/4	10.0	8.052371	10.0	2246480.0	0.805237	Y
7	IC 410-70996/3	25.0	20.074854	10.0	2249974.0	0.802994	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

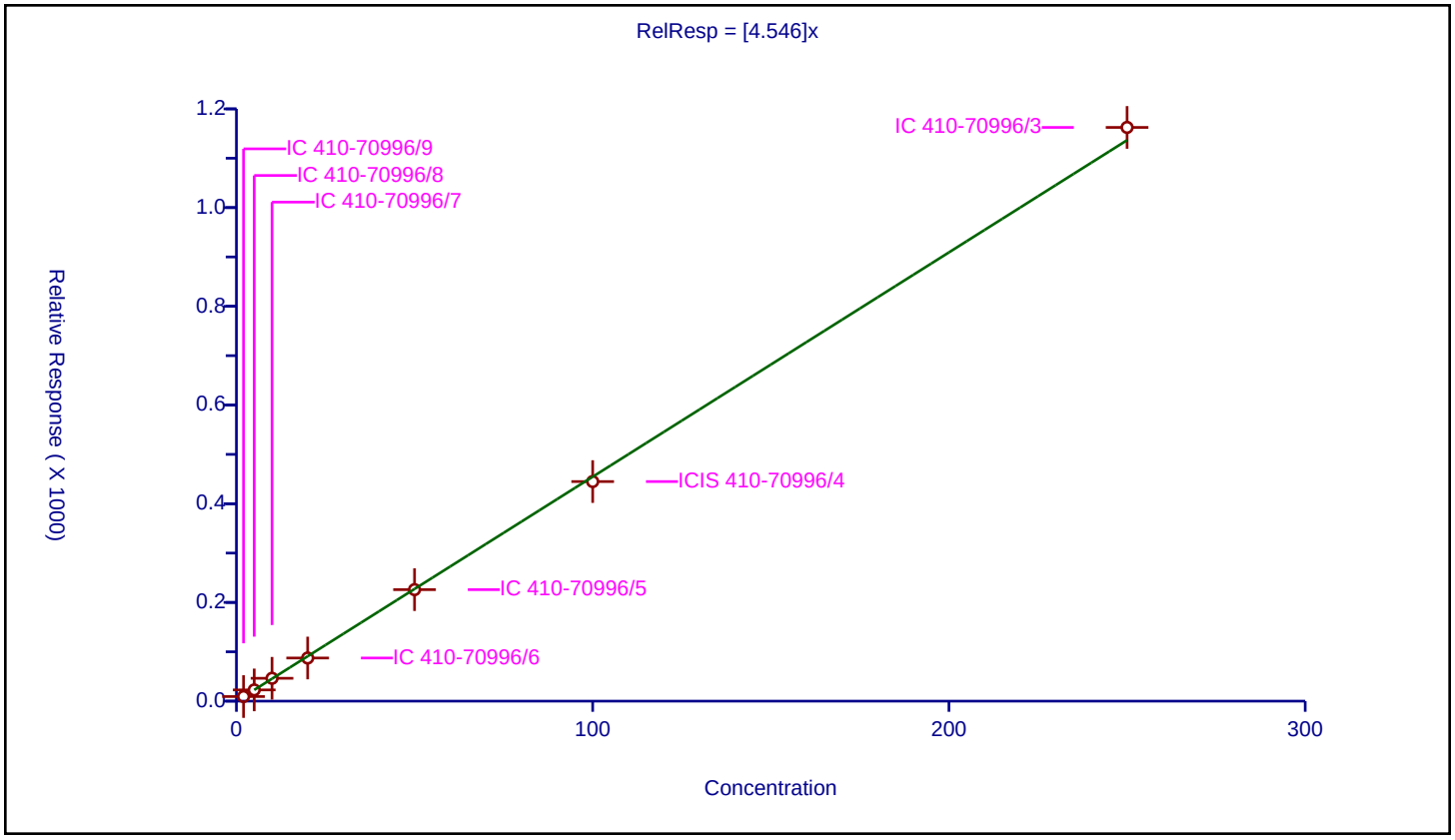
Curve Coefficients

Intercept:	0
Slope:	4.546

Error Coefficients

Standard Error:	1860000
Relative Standard Error:	2.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	2.0	9.304069	50.0	184731.0	4.652035	Y
2	IC 410-70996/8	5.0	22.759582	50.0	195834.0	4.551916	Y
3	IC 410-70996/7	10.0	46.328638	50.0	201206.0	4.632864	Y
4	IC 410-70996/6	20.0	87.404072	50.0	195329.0	4.370204	Y
5	IC 410-70996/5	50.0	225.902271	50.0	183343.0	4.518045	Y
6	ICIS 410-70996/4	100.0	444.912786	50.0	186094.0	4.449128	Y
7	IC 410-70996/3	250.0	1162.465074	50.0	177877.0	4.64986	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

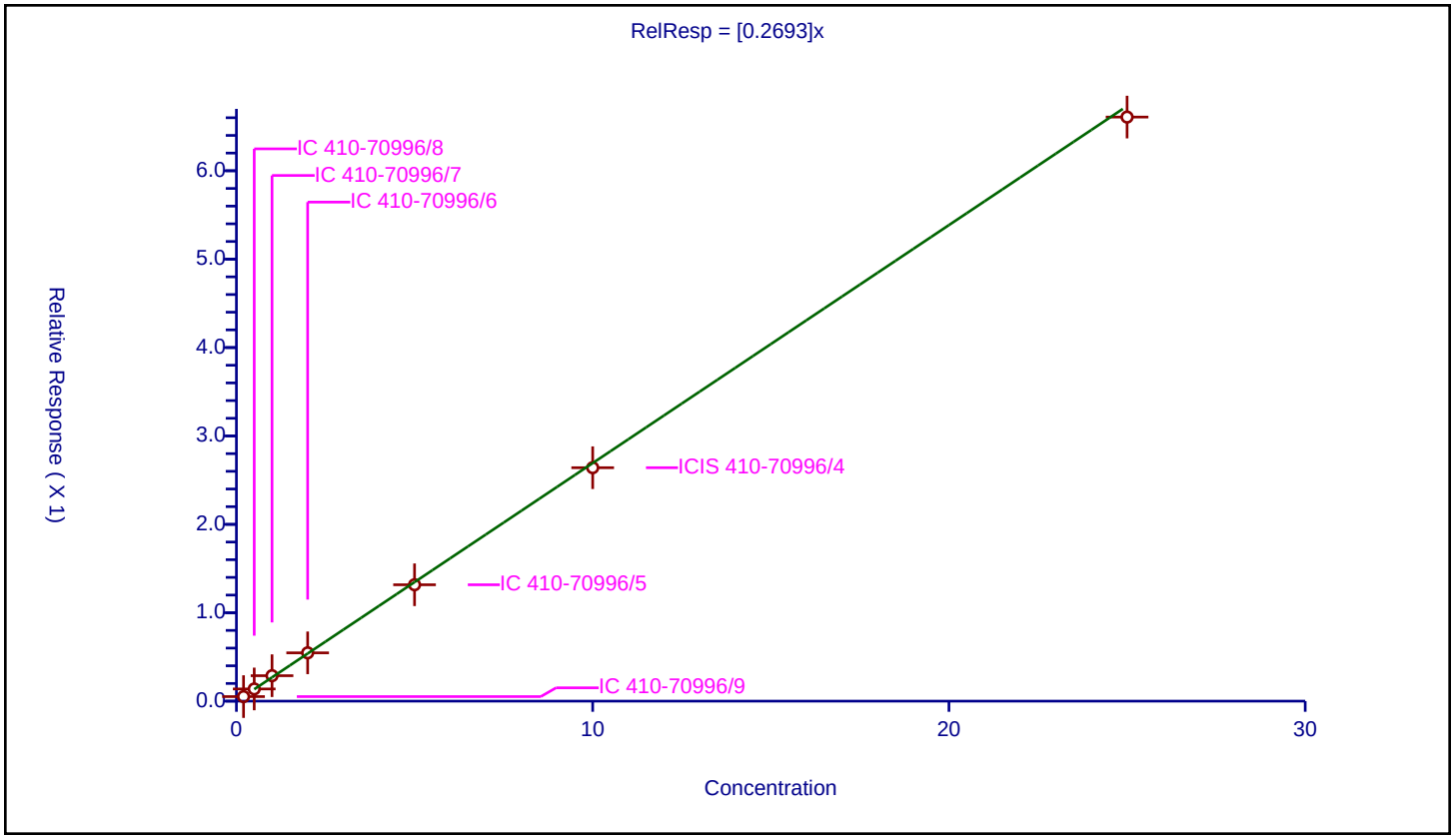
Curve Coefficients

Intercept:	0
Slope:	0.2693

Error Coefficients

Standard Error:	667000
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 410-70996/9	0.2	0.051271	10.0	2204755.0	0.256355	Y
2	IC 410-70996/8	0.5	0.13794	10.0	2189287.0	0.27588	Y
3	IC 410-70996/7	1.0	0.287825	10.0	2211412.0	0.287825	Y
4	IC 410-70996/6	2.0	0.546349	10.0	2210035.0	0.273174	Y
5	IC 410-70996/5	5.0	1.316648	10.0	2225560.0	0.26333	Y
6	ICIS 410-70996/4	10.0	2.640771	10.0	2246480.0	0.264077	Y
7	IC 410-70996/3	25.0	6.607619	10.0	2249974.0	0.264305	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

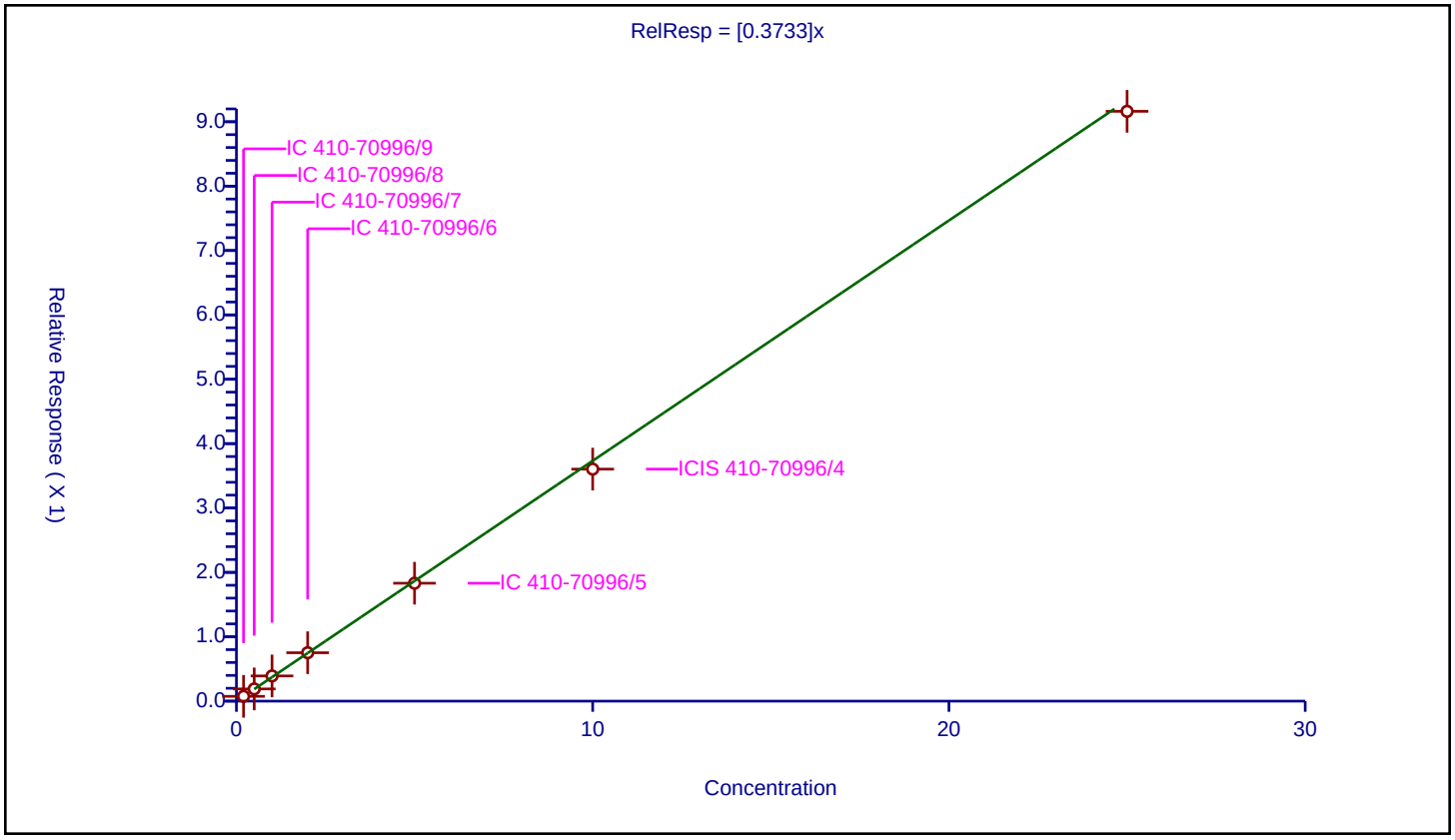
Curve Coefficients

Intercept:	0
Slope:	0.3733

Error Coefficients

Standard Error:	923000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.074729	10.0	2204755.0	0.373647	Y
2	IC 410-70996/8	0.5	0.1895	10.0	2189287.0	0.379	Y
3	IC 410-70996/7	1.0	0.39146	10.0	2211412.0	0.39146	Y
4	IC 410-70996/6	2.0	0.751762	10.0	2210035.0	0.375881	Y
5	IC 410-70996/5	5.0	1.831678	10.0	2225560.0	0.366336	Y
6	ICIS 410-70996/4	10.0	3.604052	10.0	2246480.0	0.360405	Y
7	IC 410-70996/3	25.0	9.162381	10.0	2249974.0	0.366495	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

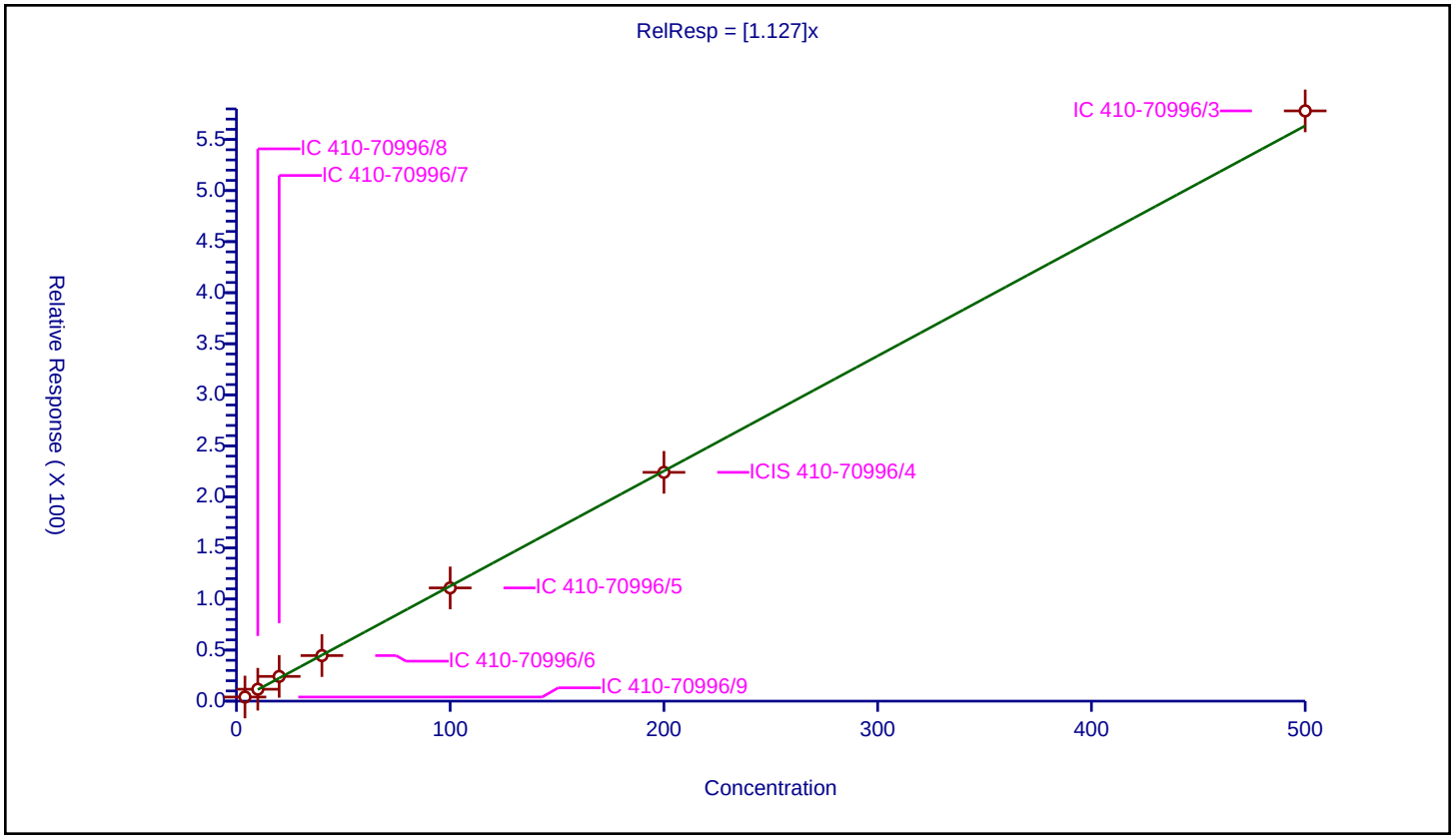
Curve Coefficients

Intercept:	0
Slope:	1.127

Error Coefficients

Standard Error:	925000
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 410-70996/9	4.0	4.035056	50.0	184731.0	1.008764	Y
2	IC 410-70996/8	10.0	11.68362	50.0	195834.0	1.168362	Y
3	IC 410-70996/7	20.0	24.216226	50.0	201206.0	1.210811	Y
4	IC 410-70996/6	40.0	44.615495	50.0	195329.0	1.115387	Y
5	IC 410-70996/5	100.0	110.883699	50.0	183343.0	1.108837	Y
6	ICIS 410-70996/4	200.0	224.067675	50.0	186094.0	1.120338	Y
7	IC 410-70996/3	500.0	578.037352	50.0	177877.0	1.156075	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

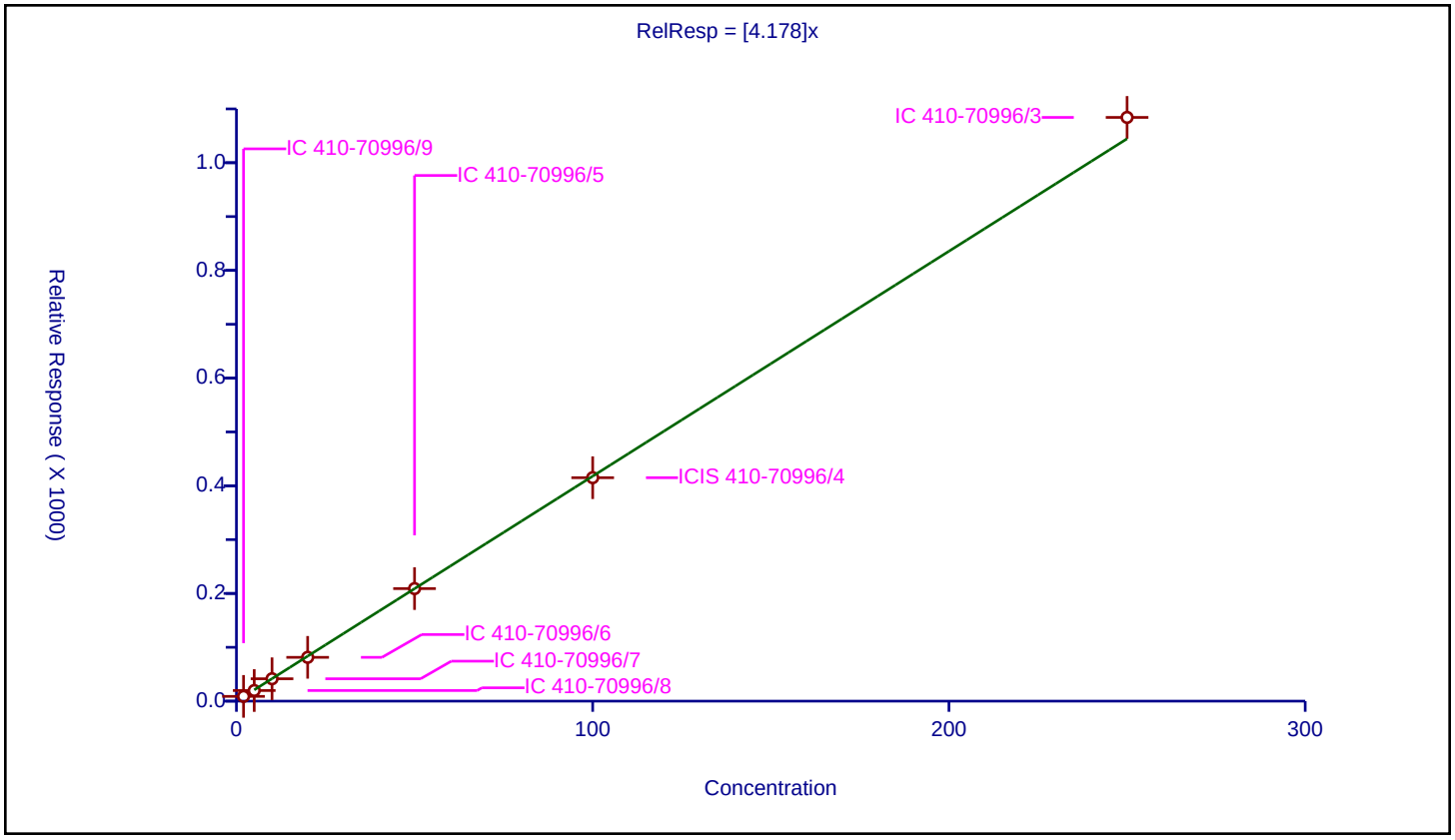
Curve Coefficients

Intercept:	0
Slope:	4.178

Error Coefficients

Standard Error:	1730000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	2.0	8.818228	50.0	184731.0	4.409114	Y
2	IC 410-70996/8	5.0	19.72972	50.0	195834.0	3.945944	Y
3	IC 410-70996/7	10.0	41.583004	50.0	201206.0	4.1583	Y
4	IC 410-70996/6	20.0	81.341736	50.0	195329.0	4.067087	Y
5	IC 410-70996/5	50.0	209.013979	50.0	183343.0	4.18028	Y
6	ICIS 410-70996/4	100.0	415.025202	50.0	186094.0	4.150252	Y
7	IC 410-70996/3	250.0	1084.185139	50.0	177877.0	4.336741	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

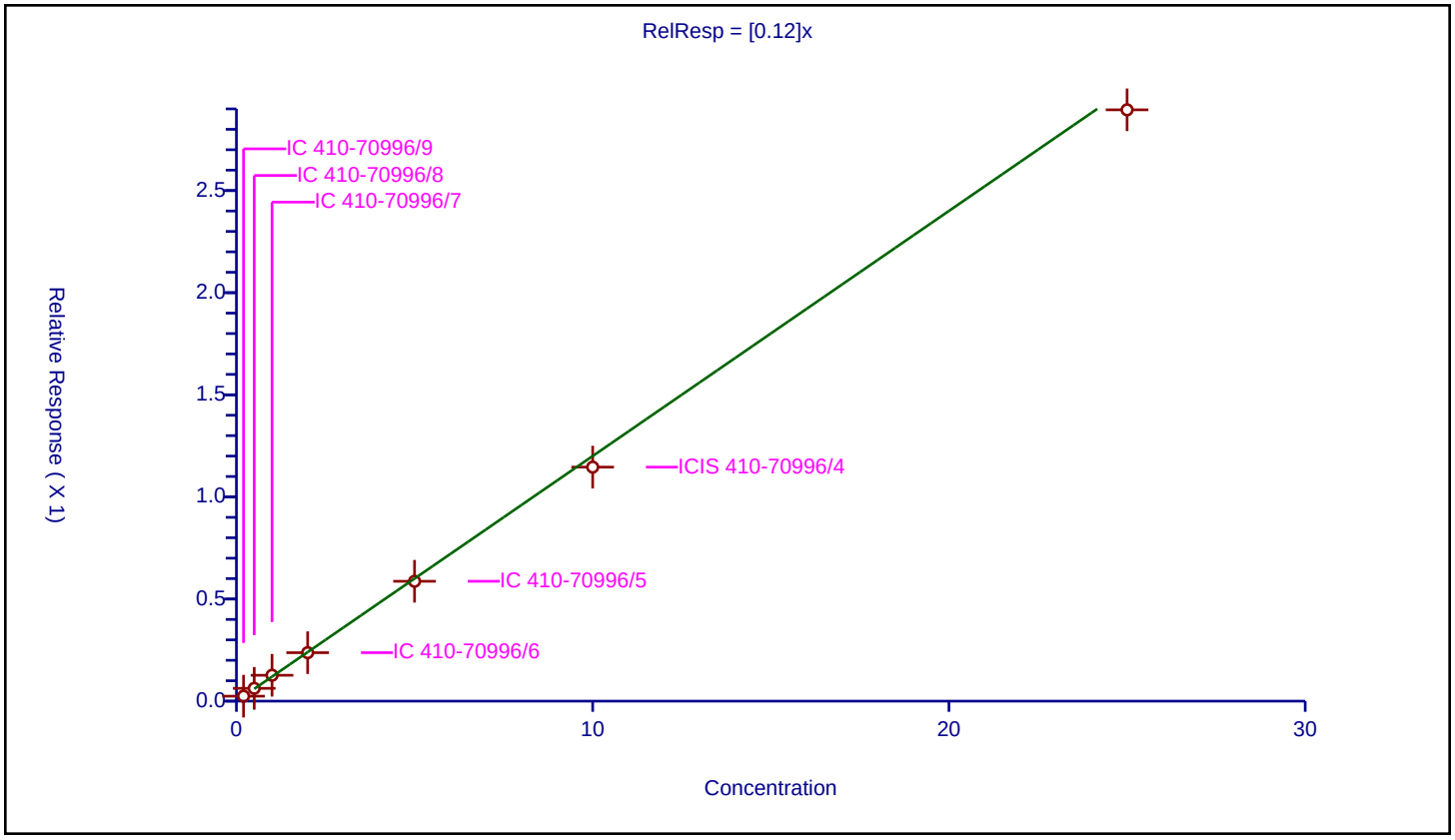
Curve Coefficients

Intercept:	0
Slope:	0.12

Error Coefficients

Standard Error:	292000
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 410-70996/9	0.2	0.024338	10.0	2204755.0	0.121692	Y
2	IC 410-70996/8	0.5	0.062678	10.0	2189287.0	0.125356	Y
3	IC 410-70996/7	1.0	0.126666	10.0	2211412.0	0.126666	Y
4	IC 410-70996/6	2.0	0.23725	10.0	2210035.0	0.118625	Y
5	IC 410-70996/5	5.0	0.58694	10.0	2225560.0	0.117388	Y
6	ICIS 410-70996/4	10.0	1.145864	10.0	2246480.0	0.114586	Y
7	IC 410-70996/3	25.0	2.895371	10.0	2249974.0	0.115815	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

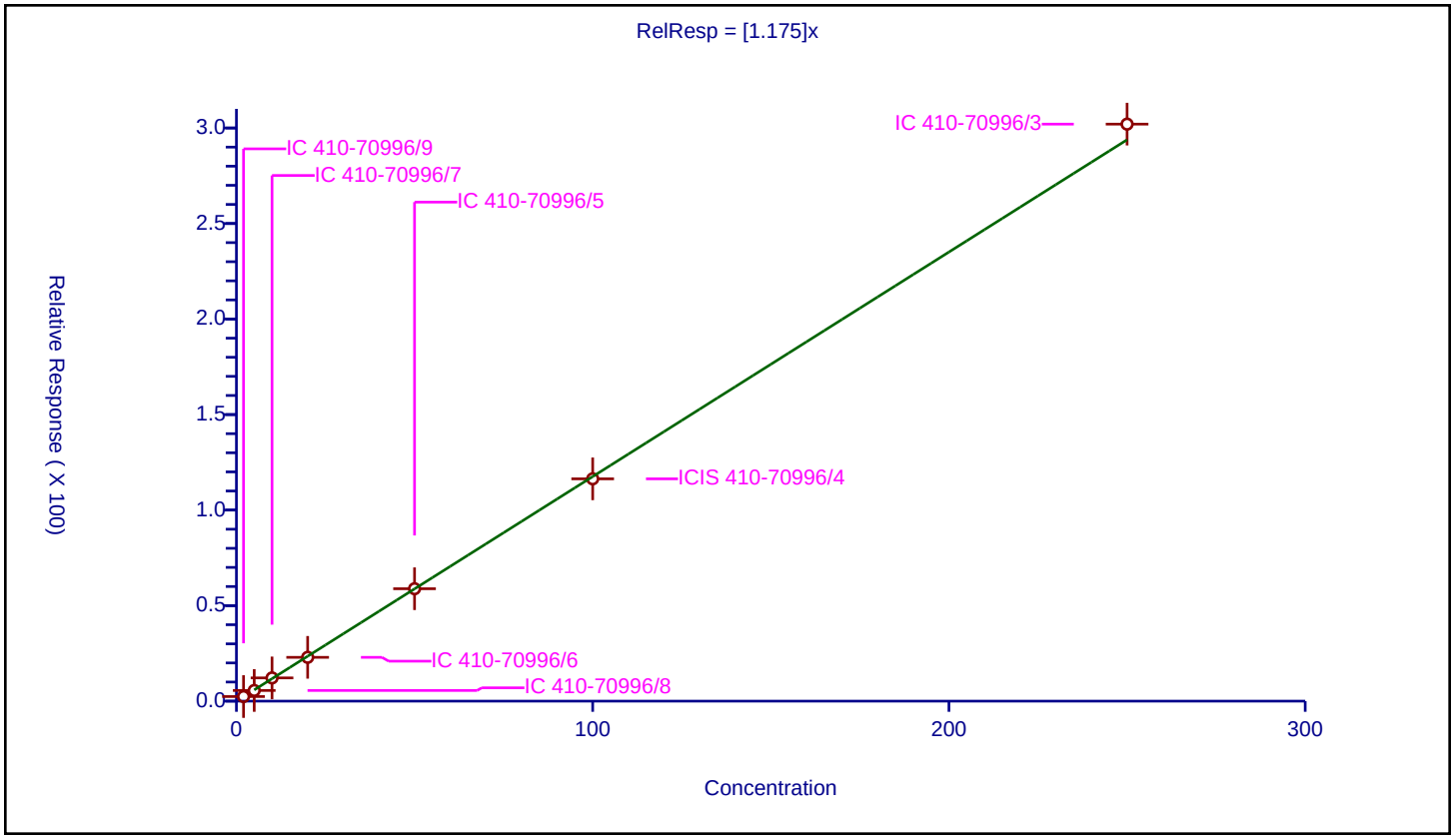
Curve Coefficients

Intercept:	0
Slope:	1.175

Error Coefficients

Standard Error:	483000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	2.0	2.401059	50.0	184731.0	1.200529	Y
2	IC 410-70996/8	5.0	5.579726	50.0	195834.0	1.115945	Y
3	IC 410-70996/7	10.0	12.162659	50.0	201206.0	1.216266	Y
4	IC 410-70996/6	20.0	22.928751	50.0	195329.0	1.146438	Y
5	IC 410-70996/5	50.0	58.843261	50.0	183343.0	1.176865	Y
6	ICIS 410-70996/4	100.0	116.36028	50.0	186094.0	1.163603	Y
7	IC 410-70996/3	250.0	302.020778	50.0	177877.0	1.208083	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

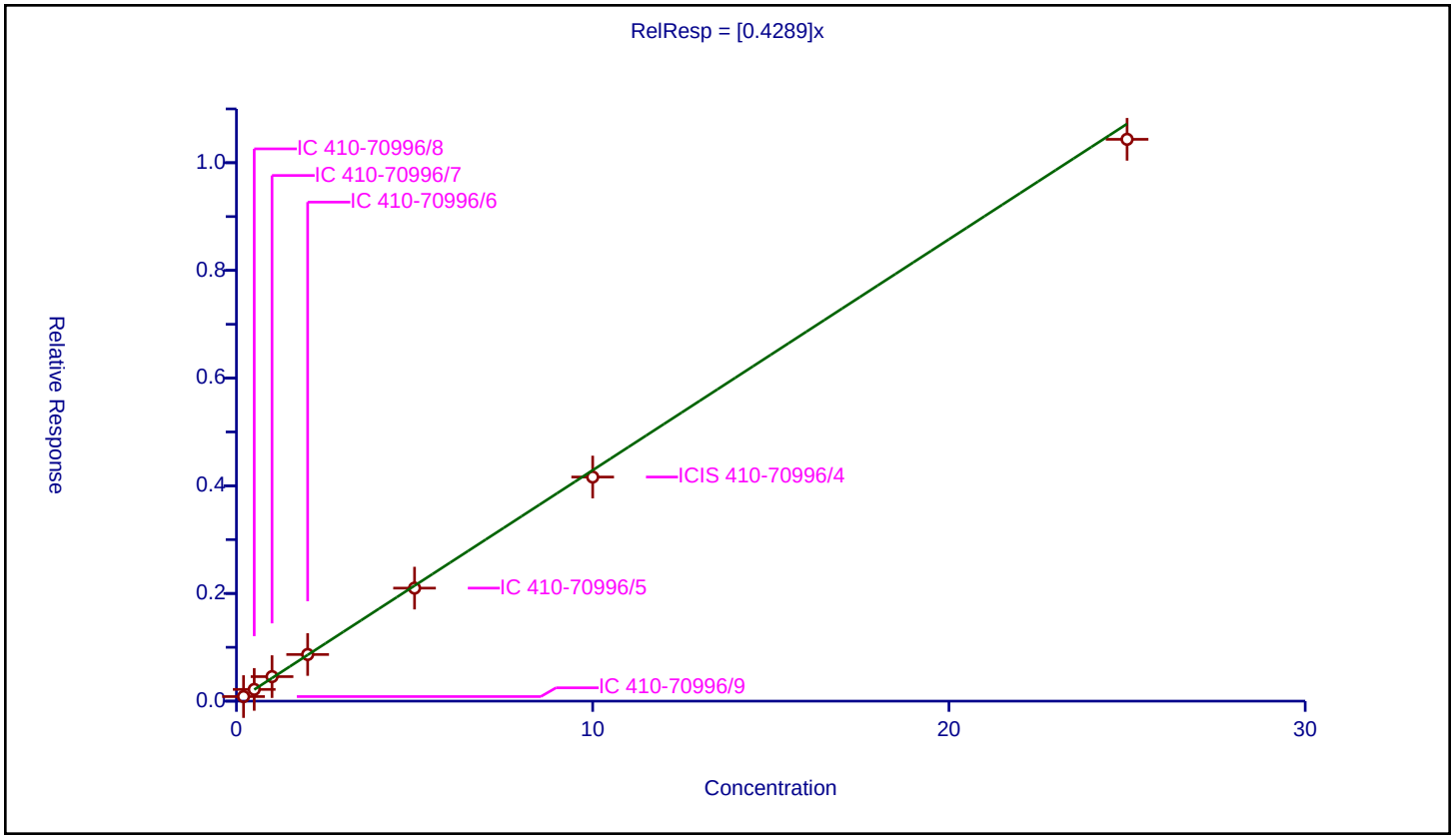
Curve Coefficients

Intercept:	0
Slope:	0.4289

Error Coefficients

Standard Error:	1050000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.084817	10.0	2204755.0	0.424083	Y
2	IC 410-70996/8	0.5	0.218025	10.0	2189287.0	0.436051	Y
3	IC 410-70996/7	1.0	0.455315	10.0	2211412.0	0.455315	Y
4	IC 410-70996/6	2.0	0.86662	10.0	2210035.0	0.43331	Y
5	IC 410-70996/5	5.0	2.099206	10.0	2225560.0	0.419841	Y
6	ICIS 410-70996/4	10.0	4.162441	10.0	2246480.0	0.416244	Y
7	IC 410-70996/3	25.0	10.435294	10.0	2249974.0	0.417412	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

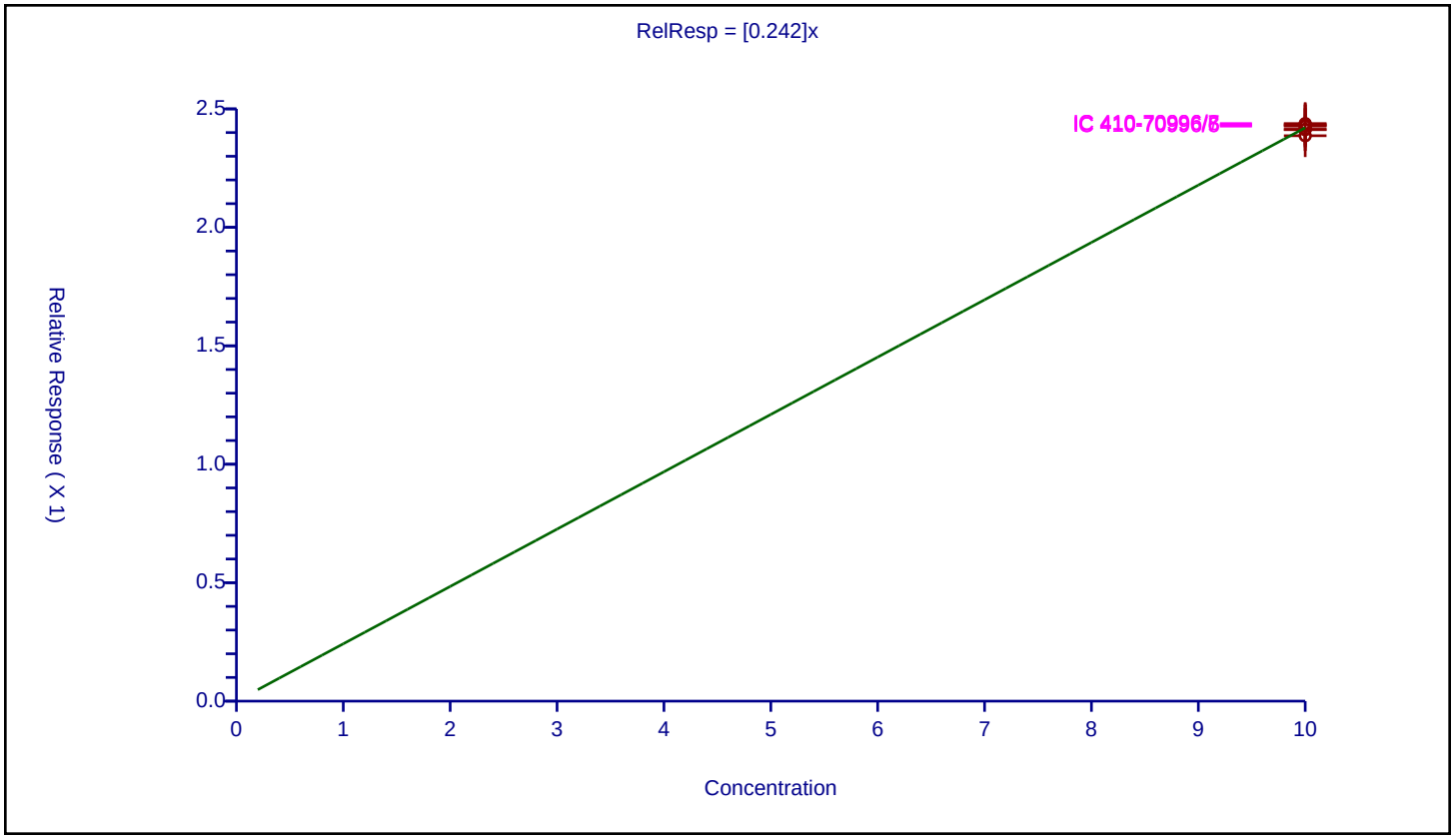
Curve Coefficients

Intercept:	0
Slope:	0.242

Error Coefficients

Standard Error:	580000
Relative Standard Error:	0.7
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/3	10.0	2.413806	10.0	2249974.0	0.241381	Y
2	ICIS 410-70996/4	10.0	2.412138	10.0	2246480.0	0.241214	Y
3	IC 410-70996/5	10.0	2.427874	10.0	2225560.0	0.242787	Y
4	IC 410-70996/6	10.0	2.428686	10.0	2210035.0	0.242869	Y
5	IC 410-70996/7	10.0	2.438035	10.0	2211412.0	0.243804	Y
6	IC 410-70996/8	10.0	2.434409	10.0	2189287.0	0.243441	Y
7	IC 410-70996/9	10.0	2.386642	10.0	2204755.0	0.238664	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

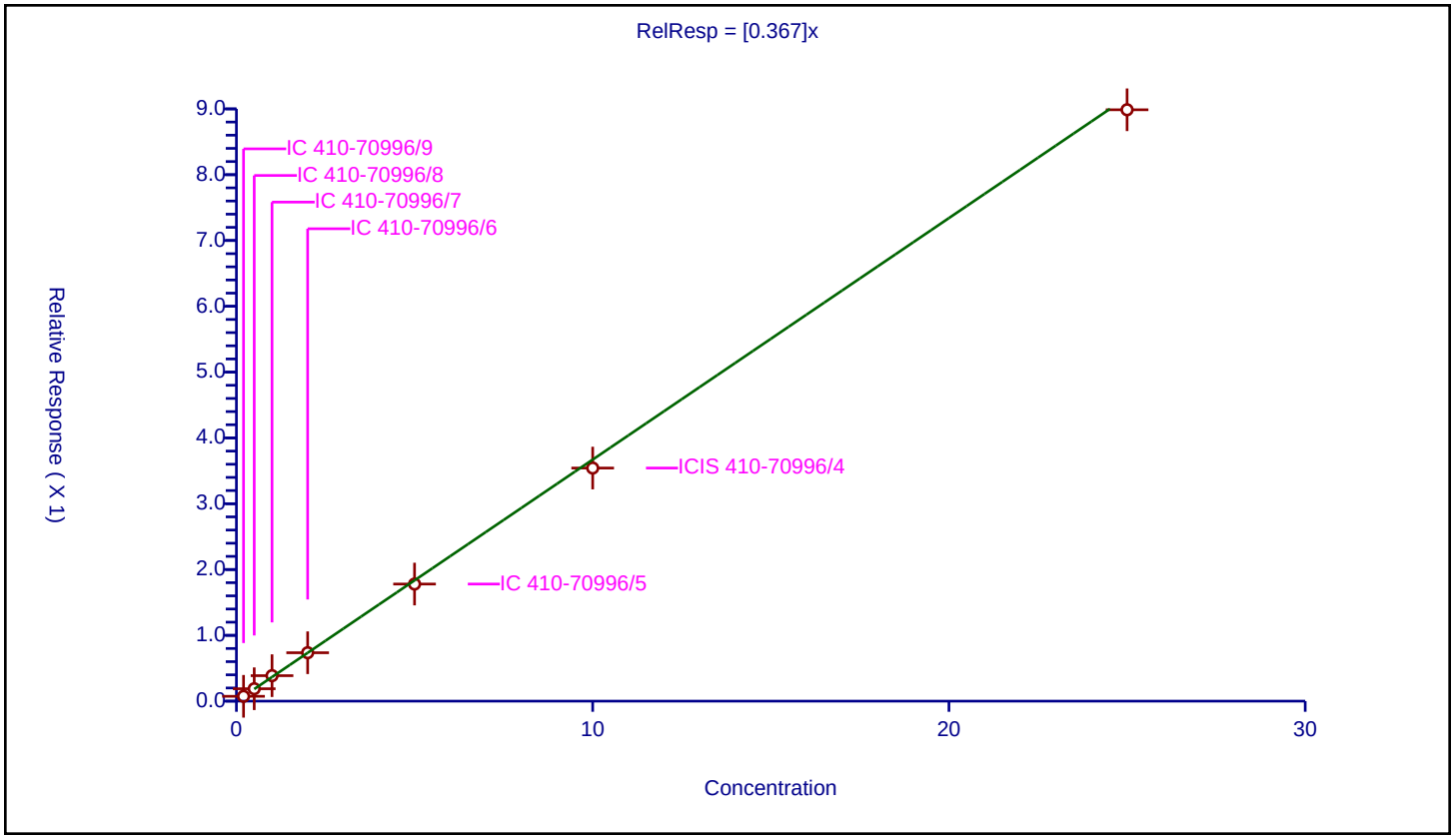
Curve Coefficients

Intercept:	0
Slope:	0.367

Error Coefficients

Standard Error:	905000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.073586	10.0	2204755.0	0.367932	Y
2	IC 410-70996/8	0.5	0.188449	10.0	2189287.0	0.376899	Y
3	IC 410-70996/7	1.0	0.387011	10.0	2211412.0	0.387011	Y
4	IC 410-70996/6	2.0	0.735762	10.0	2210035.0	0.367881	Y
5	IC 410-70996/5	5.0	1.779584	10.0	2225560.0	0.355917	Y
6	ICIS 410-70996/4	10.0	3.541923	10.0	2246480.0	0.354192	Y
7	IC 410-70996/3	25.0	8.986846	10.0	2249974.0	0.359474	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

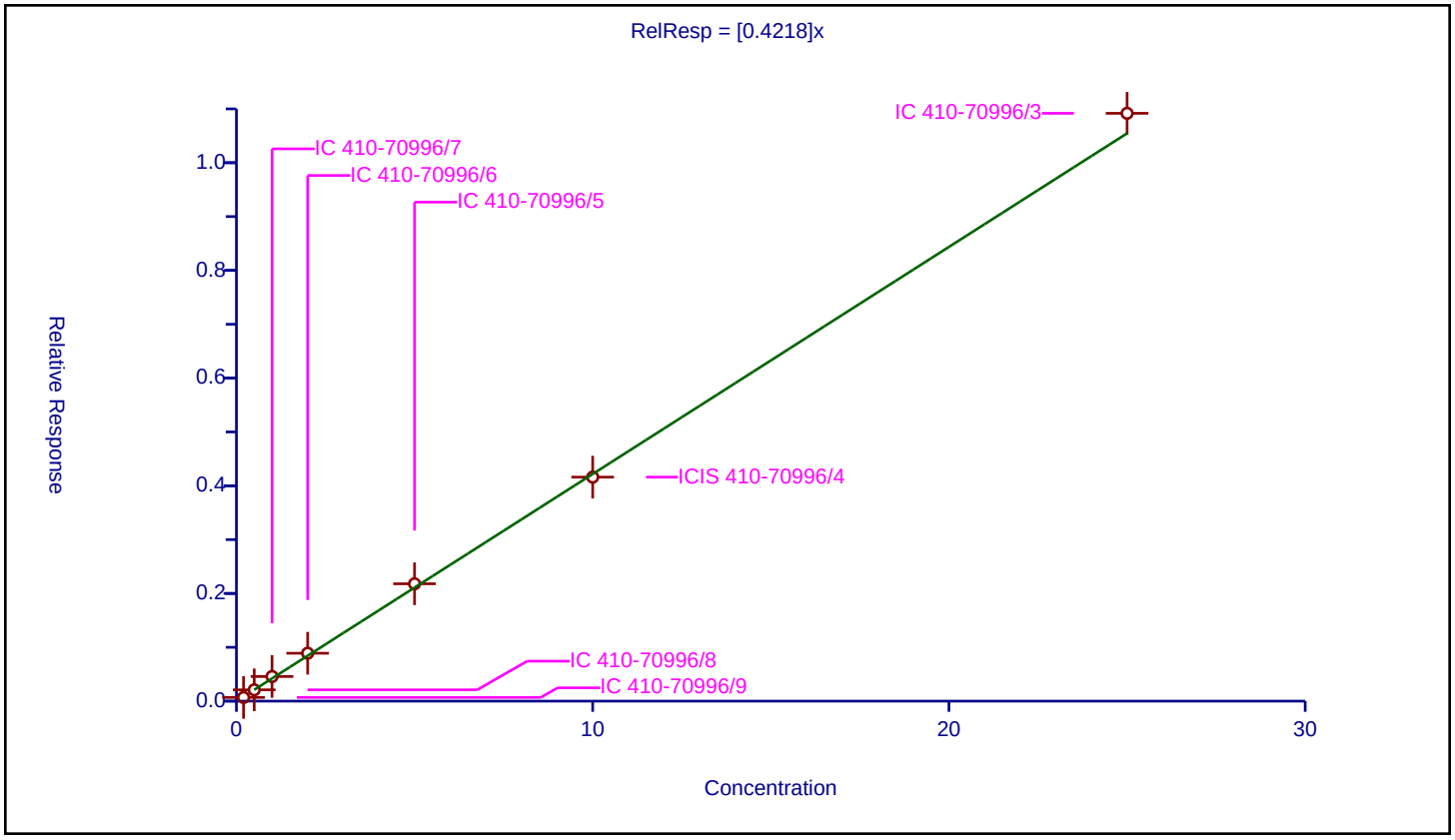
Curve Coefficients

Intercept:	0
Slope:	0.4218

Error Coefficients

Standard Error:	1100000
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 410-70996/9	0.2	0.068398	10.0	2204755.0	0.341988	Y
2	IC 410-70996/8	0.5	0.209968	10.0	2189287.0	0.419936	Y
3	IC 410-70996/7	1.0	0.457278	10.0	2211412.0	0.457278	Y
4	IC 410-70996/6	2.0	0.889705	10.0	2210035.0	0.444853	Y
5	IC 410-70996/5	5.0	2.179874	10.0	2225560.0	0.435975	Y
6	ICIS 410-70996/4	10.0	4.160714	10.0	2246480.0	0.416071	Y
7	IC 410-70996/3	25.0	10.917873	10.0	2249974.0	0.436715	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

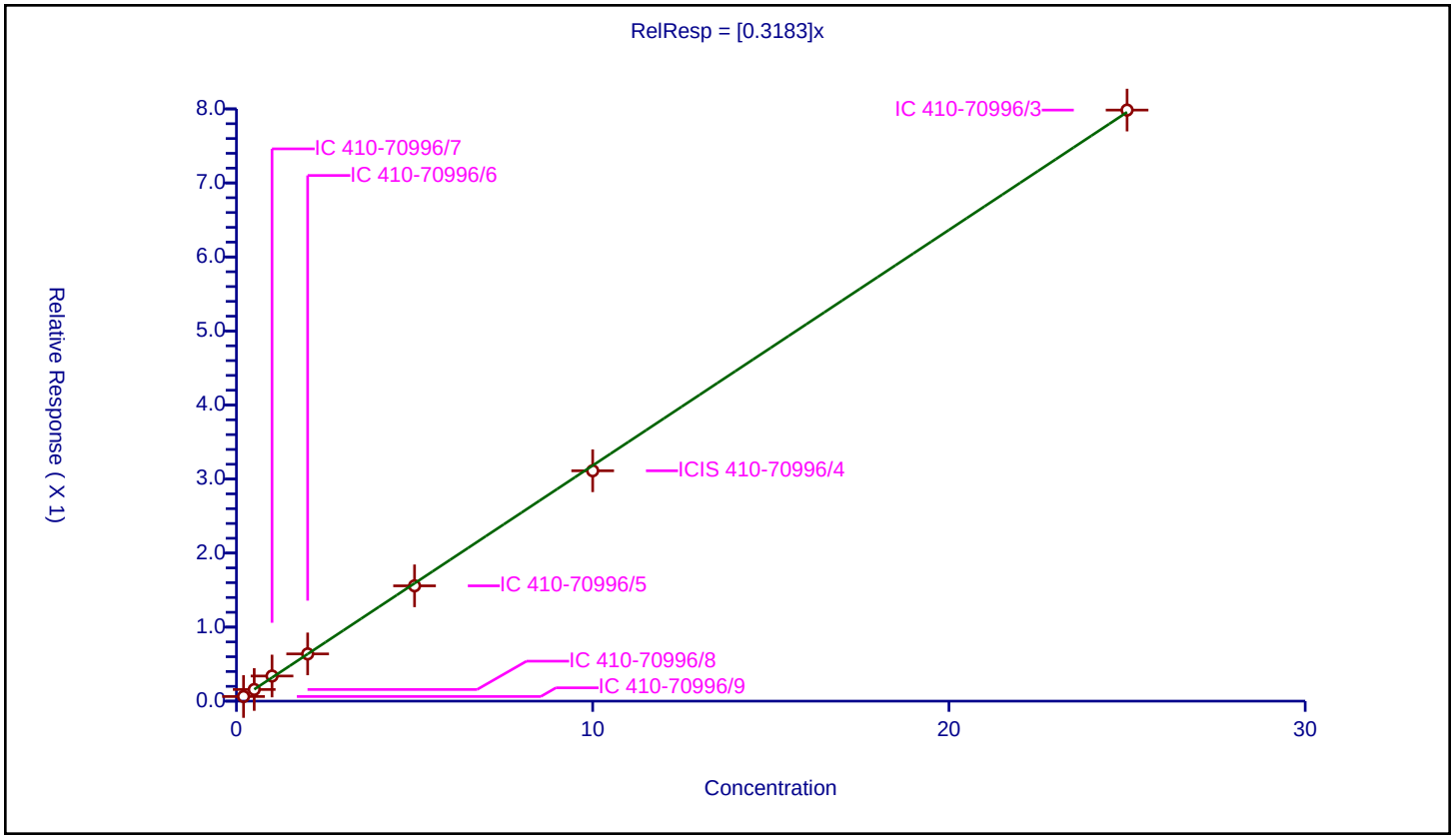
Curve Coefficients

Intercept:	0
Slope:	0.3183

Error Coefficients

Standard Error:	802000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.062465	10.0	2204755.0	0.312325	Y
2	IC 410-70996/8	0.5	0.157385	10.0	2189287.0	0.314769	Y
3	IC 410-70996/7	1.0	0.339588	10.0	2211412.0	0.339588	Y
4	IC 410-70996/6	2.0	0.638035	10.0	2210035.0	0.319018	Y
5	IC 410-70996/5	5.0	1.557612	10.0	2225560.0	0.311522	Y
6	ICIS 410-70996/4	10.0	3.111735	10.0	2246480.0	0.311173	Y
7	IC 410-70996/3	25.0	7.98407	10.0	2249974.0	0.319363	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

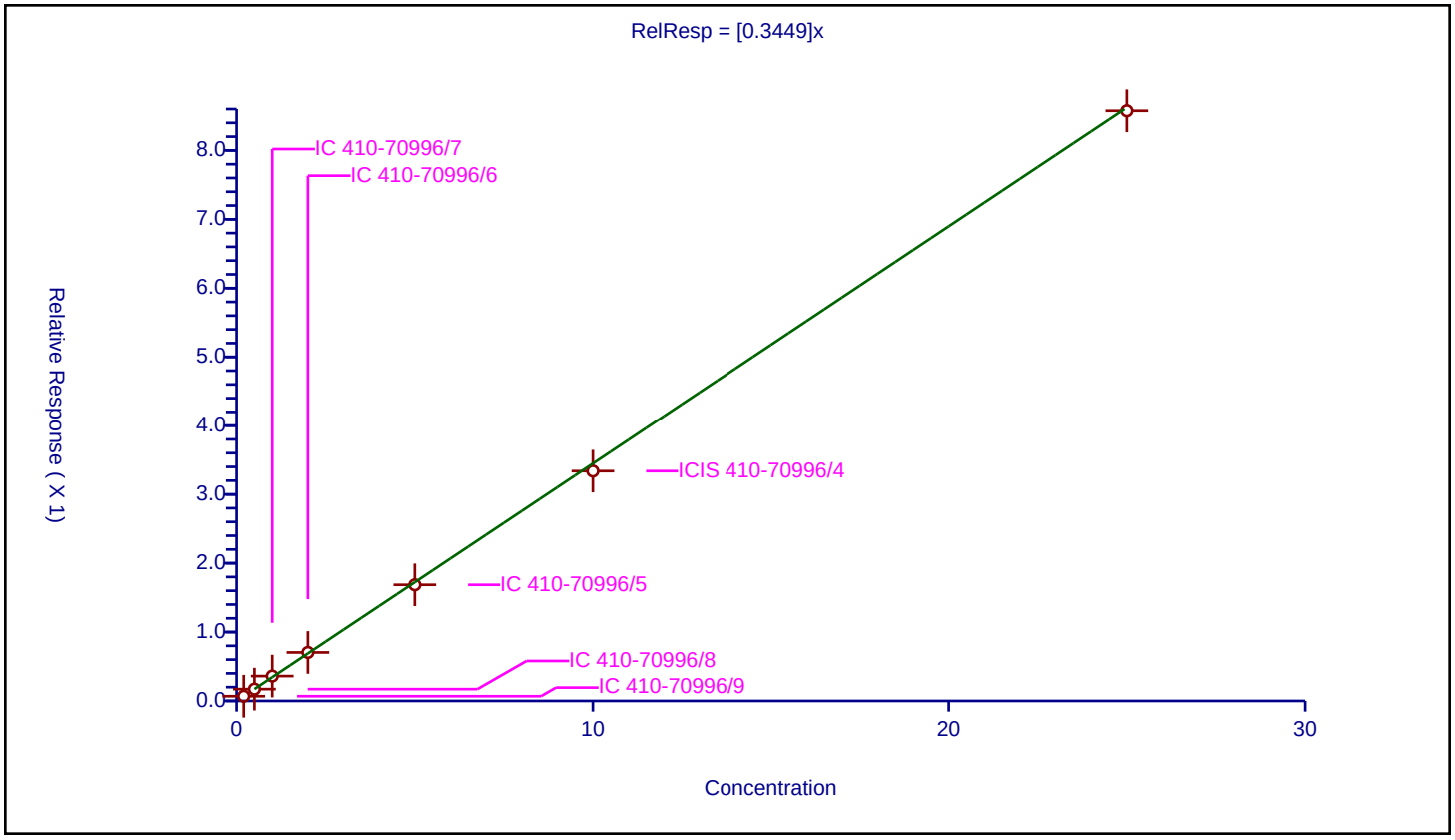
Curve Coefficients

Intercept:	0
Slope:	0.3449

Error Coefficients

Standard Error:	862000
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 410-70996/9	0.2	0.068819	10.0	2204755.0	0.344097	Y
2	IC 410-70996/8	0.5	0.171444	10.0	2189287.0	0.342888	Y
3	IC 410-70996/7	1.0	0.360996	10.0	2211412.0	0.360996	Y
4	IC 410-70996/6	2.0	0.704043	10.0	2210035.0	0.352022	Y
5	IC 410-70996/5	5.0	1.686394	10.0	2225560.0	0.337279	Y
6	ICIS 410-70996/4	10.0	3.339086	10.0	2246480.0	0.333909	Y
7	IC 410-70996/3	25.0	8.574966	10.0	2249974.0	0.342999	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

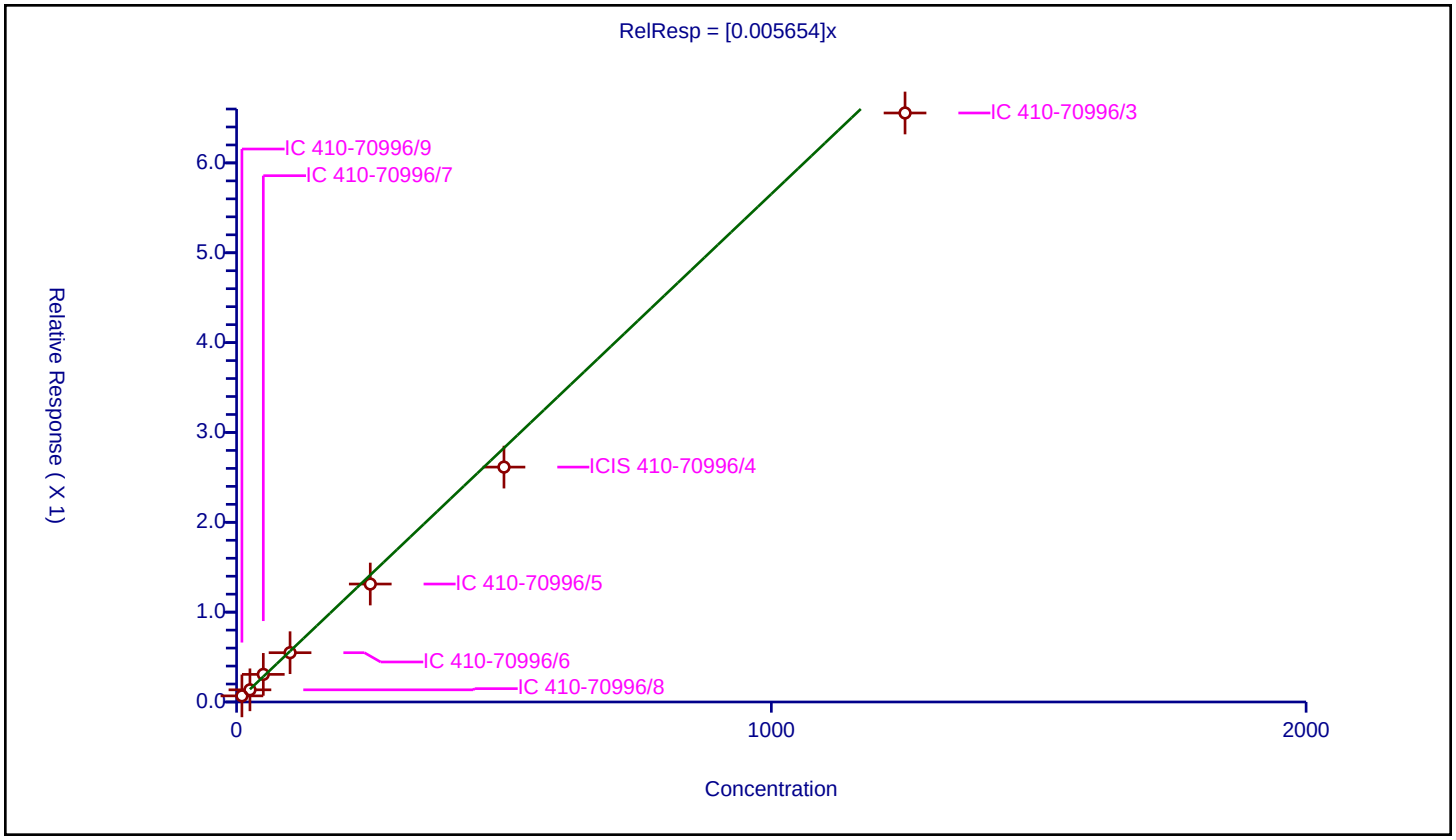
Curve Coefficients

Intercept:	0
Slope:	0.005654

Error Coefficients

Standard Error:	662000
Relative Standard Error:	10.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	10.0	0.068026	10.0	2204755.0	0.006803	Y
2	IC 410-70996/8	25.0	0.135405	10.0	2189287.0	0.005416	Y
3	IC 410-70996/7	50.0	0.307423	10.0	2211412.0	0.006148	Y
4	IC 410-70996/6	100.0	0.548711	10.0	2210035.0	0.005487	Y
5	IC 410-70996/5	250.0	1.313072	10.0	2225560.0	0.005252	Y
6	ICIS 410-70996/4	500.0	2.614308	10.0	2246480.0	0.005229	Y
7	IC 410-70996/3	1250.0	6.55588	10.0	2249974.0	0.005245	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

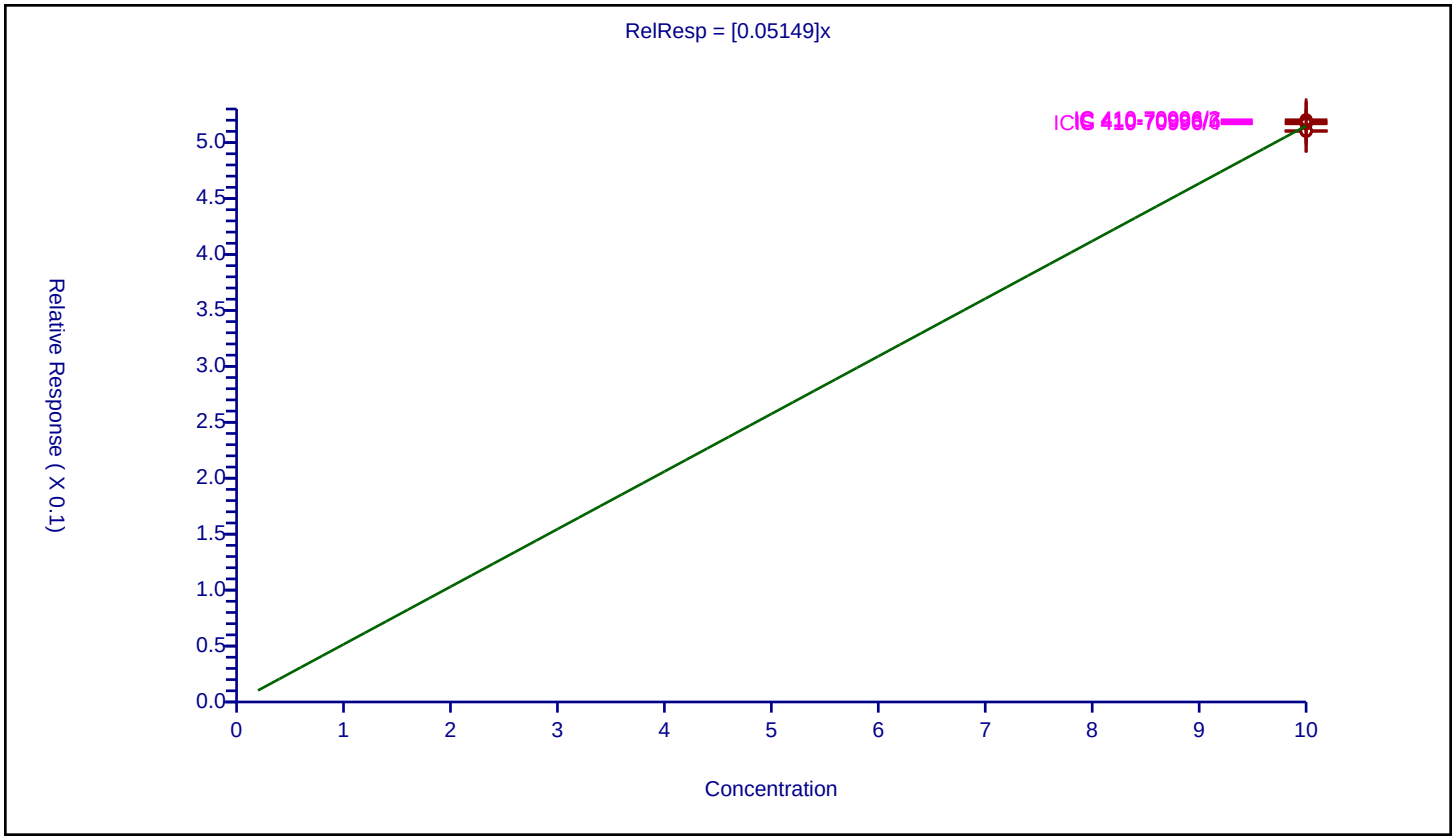
Curve Coefficients

Intercept:	0
Slope:	0.05149

Error Coefficients

Standard Error:	123000
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 410-70996/3	10.0	0.520415	10.0	2249974.0	0.052041	Y
2	ICIS 410-70996/4	10.0	0.516737	10.0	2246480.0	0.051674	Y
3	IC 410-70996/5	10.0	0.51055	10.0	2225560.0	0.051055	Y
4	IC 410-70996/6	10.0	0.517707	10.0	2210035.0	0.051771	Y
5	IC 410-70996/7	10.0	0.518773	10.0	2211412.0	0.051877	Y
6	IC 410-70996/8	10.0	0.510143	10.0	2189287.0	0.051014	Y
7	IC 410-70996/9	10.0	0.510311	10.0	2204755.0	0.051031	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

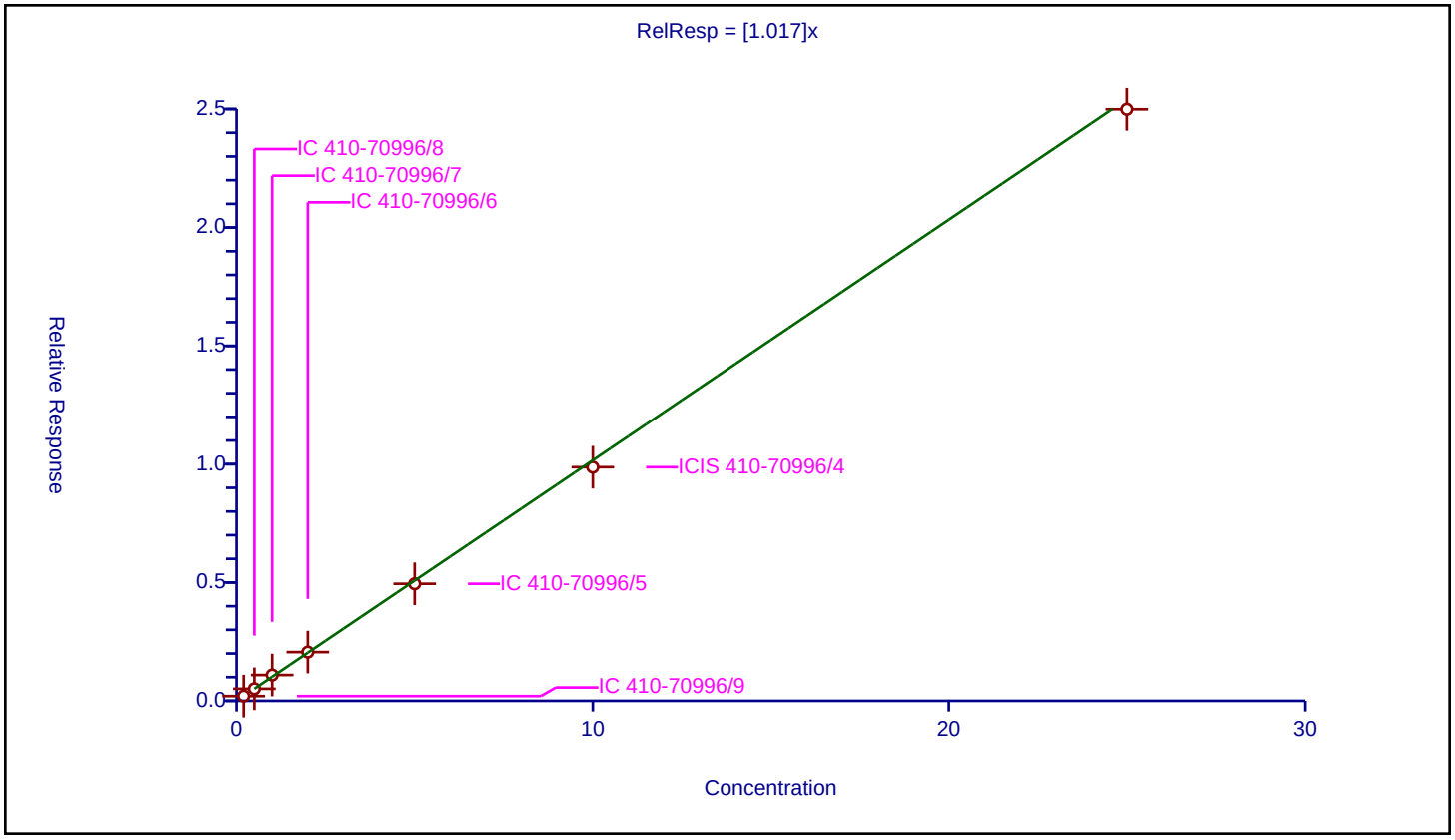
Curve Coefficients

Intercept:	0
Slope:	1.017

Error Coefficients

Standard Error:	2520000
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 410-70996/9	0.2	0.20034	10.0	2204755.0	1.001699	Y
2	IC 410-70996/8	0.5	0.508599	10.0	2189287.0	1.017199	Y
3	IC 410-70996/7	1.0	1.090543	10.0	2211412.0	1.090543	Y
4	IC 410-70996/6	2.0	2.060126	10.0	2210035.0	1.030063	Y
5	IC 410-70996/5	5.0	4.946481	10.0	2225560.0	0.989296	Y
6	ICIS 410-70996/4	10.0	9.87338	10.0	2246480.0	0.987338	Y
7	IC 410-70996/3	25.0	24.988924	10.0	2249974.0	0.999557	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

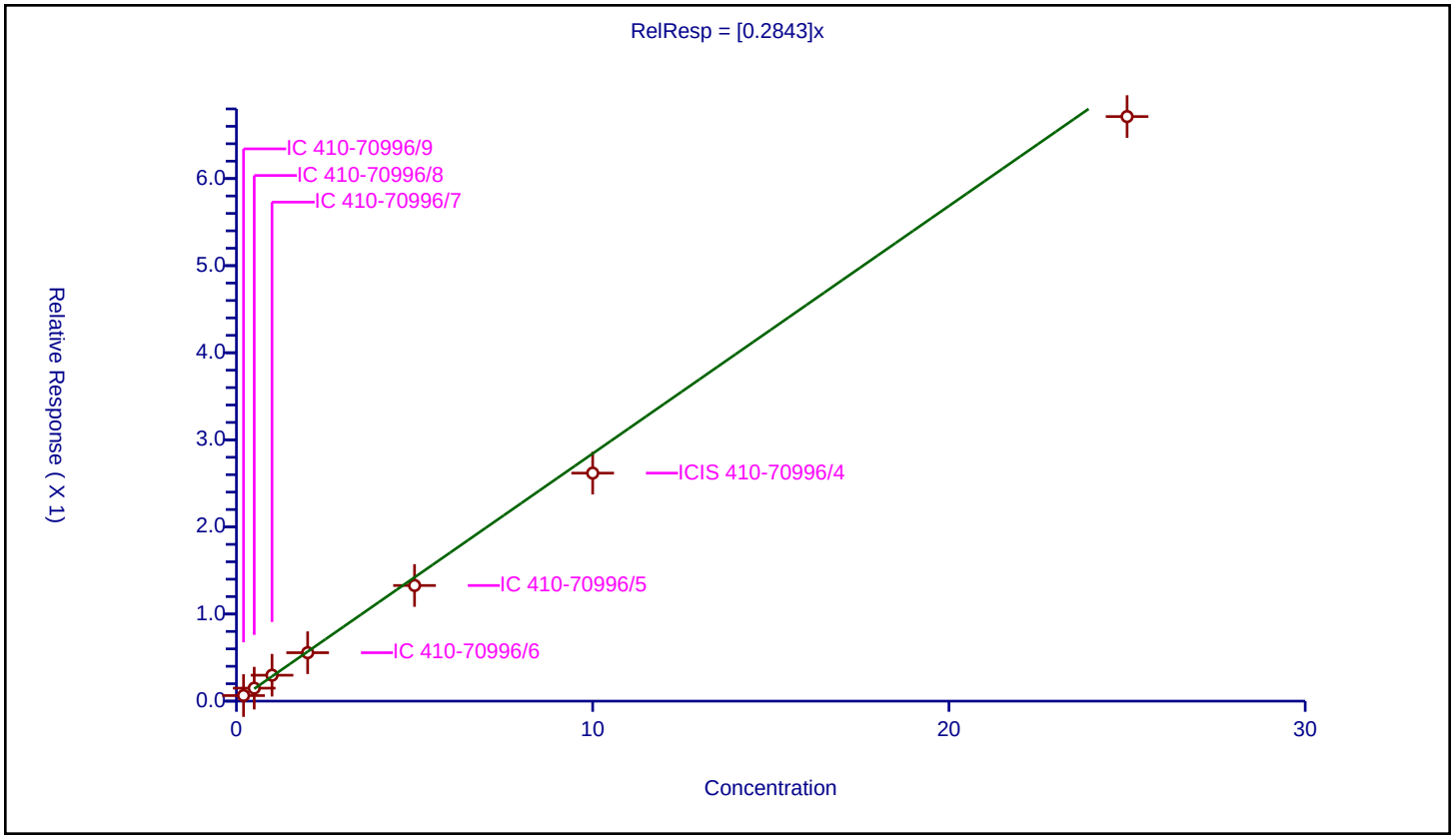
Curve Coefficients

Intercept:	0
Slope:	0.2843

Error Coefficients

Standard Error:	675000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.06408	10.0	2204755.0	0.320398	Y
2	IC 410-70996/8	0.5	0.148989	10.0	2189287.0	0.297978	Y
3	IC 410-70996/7	1.0	0.297633	10.0	2211412.0	0.297633	Y
4	IC 410-70996/6	2.0	0.556032	10.0	2210035.0	0.278016	Y
5	IC 410-70996/5	5.0	1.327976	10.0	2225560.0	0.265595	Y
6	ICIS 410-70996/4	10.0	2.618172	10.0	2246480.0	0.261817	Y
7	IC 410-70996/3	25.0	6.712069	10.0	2249974.0	0.268483	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

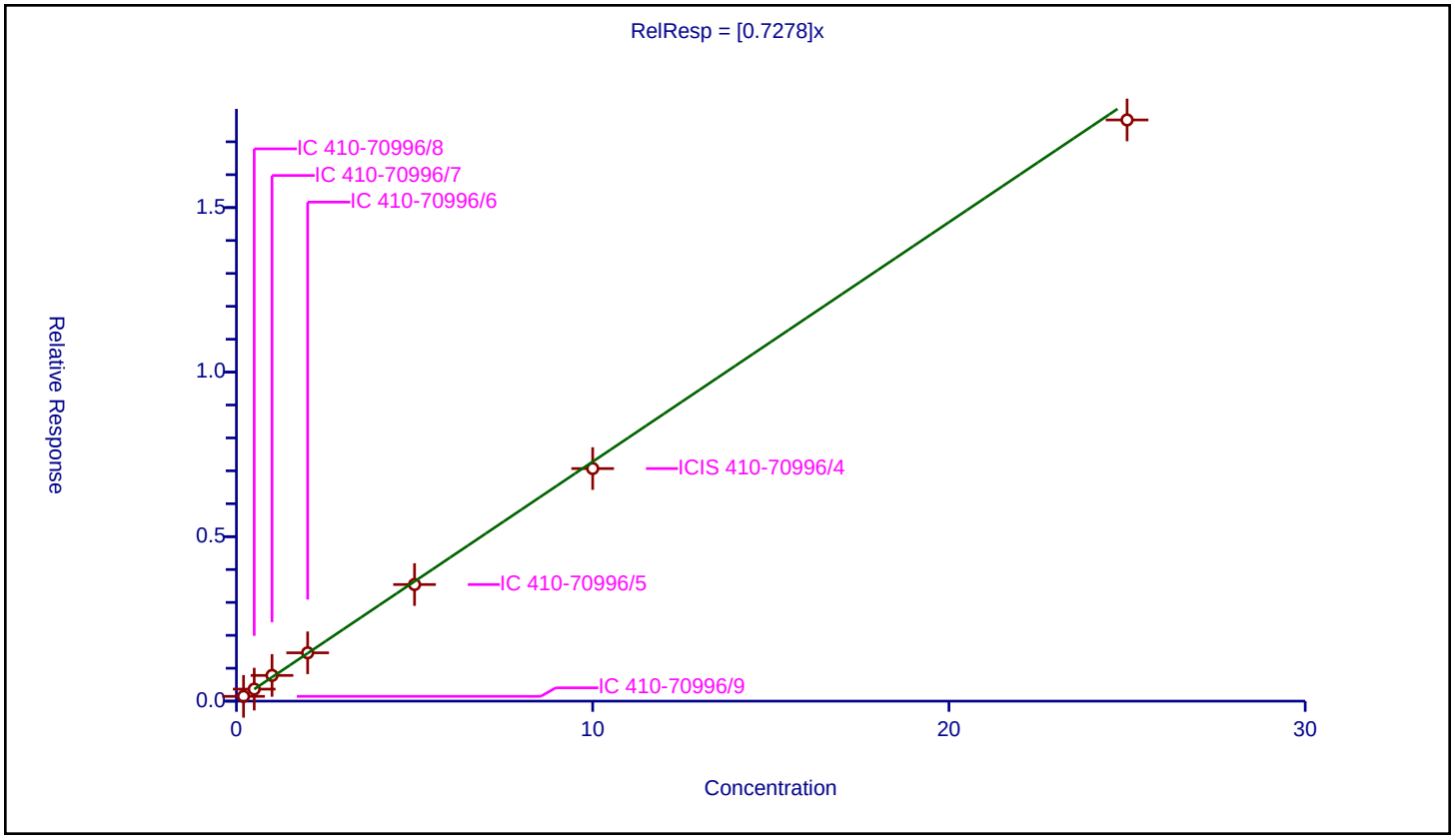
Curve Coefficients

Intercept:	0
Slope:	0.7278

Error Coefficients

Standard Error:	1780000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.145032	10.0	2204755.0	0.72516	Y
2	IC 410-70996/8	0.5	0.365343	10.0	2189287.0	0.730685	Y
3	IC 410-70996/7	1.0	0.781795	10.0	2211412.0	0.781795	Y
4	IC 410-70996/6	2.0	1.46909	10.0	2210035.0	0.734545	Y
5	IC 410-70996/5	5.0	3.544214	10.0	2225560.0	0.708843	Y
6	ICIS 410-70996/4	10.0	7.068917	10.0	2246480.0	0.706892	Y
7	IC 410-70996/3	25.0	17.663964	10.0	2249974.0	0.706559	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

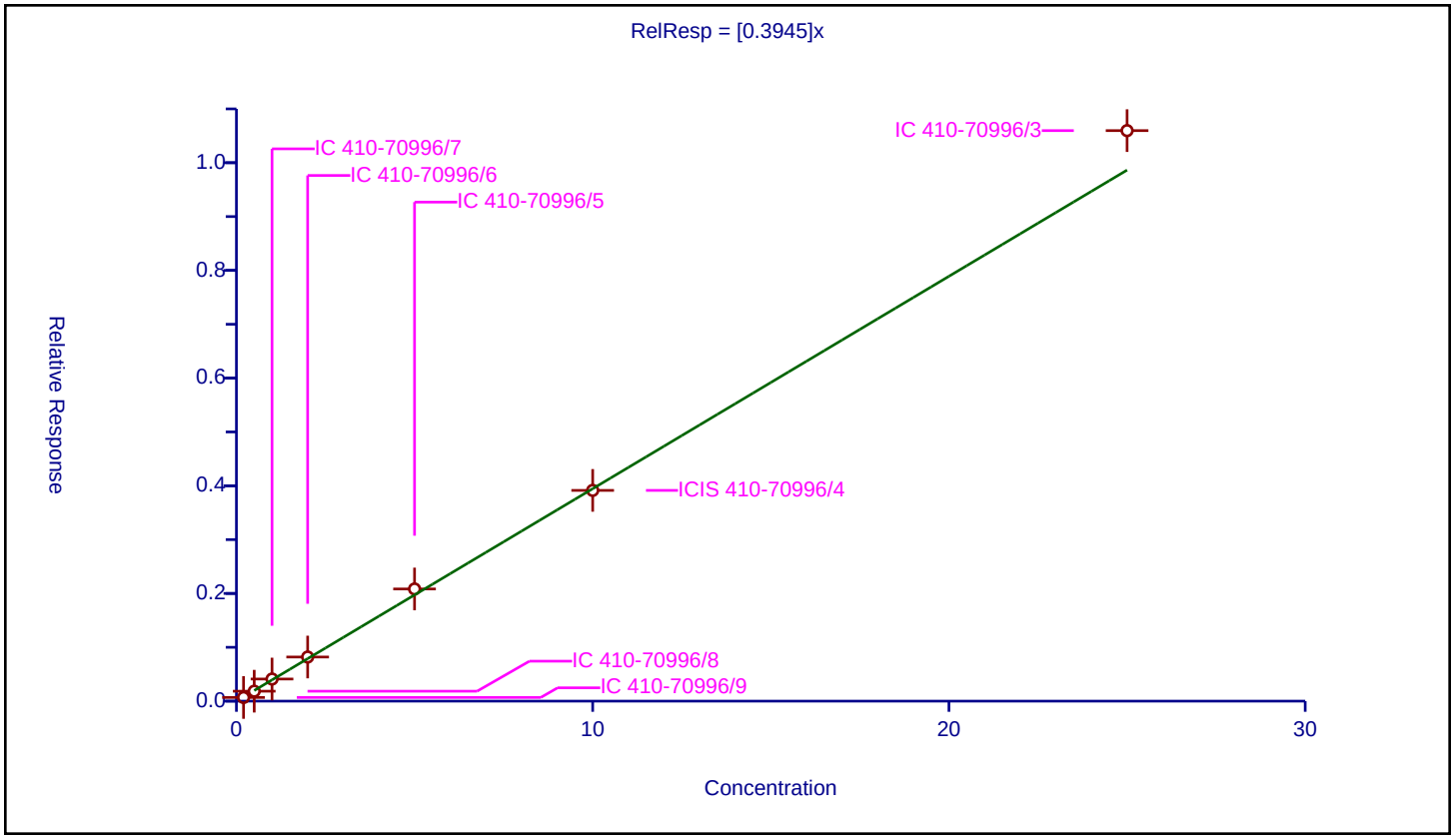
Curve Coefficients

Intercept:	0
Slope:	0.3945

Error Coefficients

Standard Error:	1060000
Relative Standard Error:	7.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.067971	10.0	2204755.0	0.339856	Y
2	IC 410-70996/8	0.5	0.184763	10.0	2189287.0	0.369527	Y
3	IC 410-70996/7	1.0	0.41076	10.0	2211412.0	0.41076	Y
4	IC 410-70996/6	2.0	0.819322	10.0	2210035.0	0.409661	Y
5	IC 410-70996/5	5.0	2.083574	10.0	2225560.0	0.416715	Y
6	ICIS 410-70996/4	10.0	3.91403	10.0	2246480.0	0.391403	Y
7	IC 410-70996/3	25.0	10.59634	10.0	2249974.0	0.423854	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

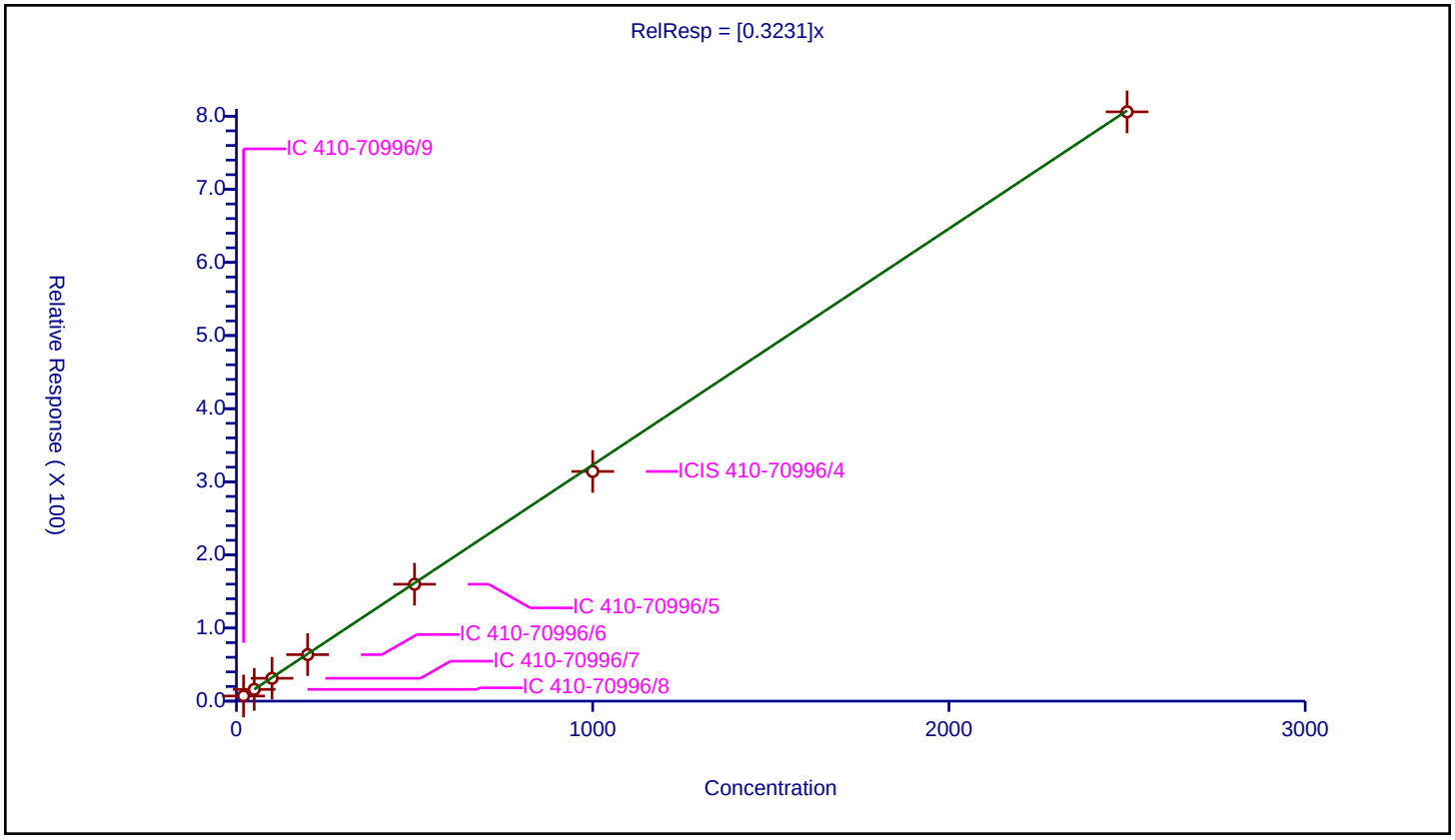
Curve Coefficients

Intercept:	0
Slope:	0.3231

Error Coefficients

Standard Error:	1290000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	20.0	7.052687	50.0	184731.0	0.352634	Y
2	IC 410-70996/8	50.0	16.076115	50.0	195834.0	0.321522	Y
3	IC 410-70996/7	100.0	31.286095	50.0	201206.0	0.312861	Y
4	IC 410-70996/6	200.0	63.630081	50.0	195329.0	0.31815	Y
5	IC 410-70996/5	500.0	159.910659	50.0	183343.0	0.319821	Y
6	ICIS 410-70996/4	1000.0	314.167303	50.0	186094.0	0.314167	Y
7	IC 410-70996/3	2500.0	805.966482	50.0	177877.0	0.322387	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

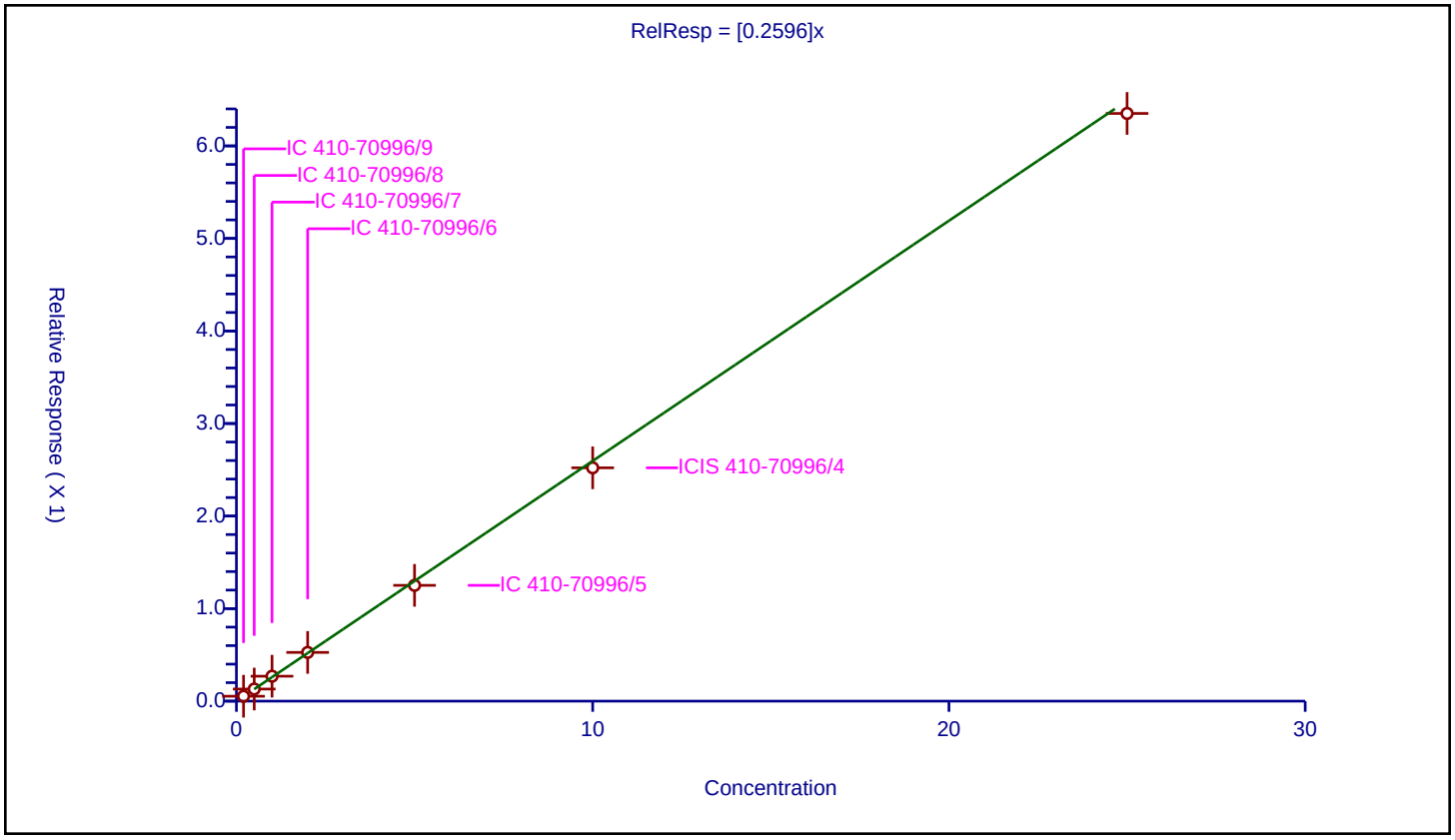
Curve Coefficients

Intercept:	0
Slope:	0.2596

Error Coefficients

Standard Error:	640000
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 410-70996/9	0.2	0.053171	10.0	2204755.0	0.265857	Y
2	IC 410-70996/8	0.5	0.130928	10.0	2189287.0	0.261857	Y
3	IC 410-70996/7	1.0	0.269502	10.0	2211412.0	0.269502	Y
4	IC 410-70996/6	2.0	0.526612	10.0	2210035.0	0.263306	Y
5	IC 410-70996/5	5.0	1.251276	10.0	2225560.0	0.250255	Y
6	ICIS 410-70996/4	10.0	2.521393	10.0	2246480.0	0.252139	Y
7	IC 410-70996/3	25.0	6.350891	10.0	2249974.0	0.254036	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

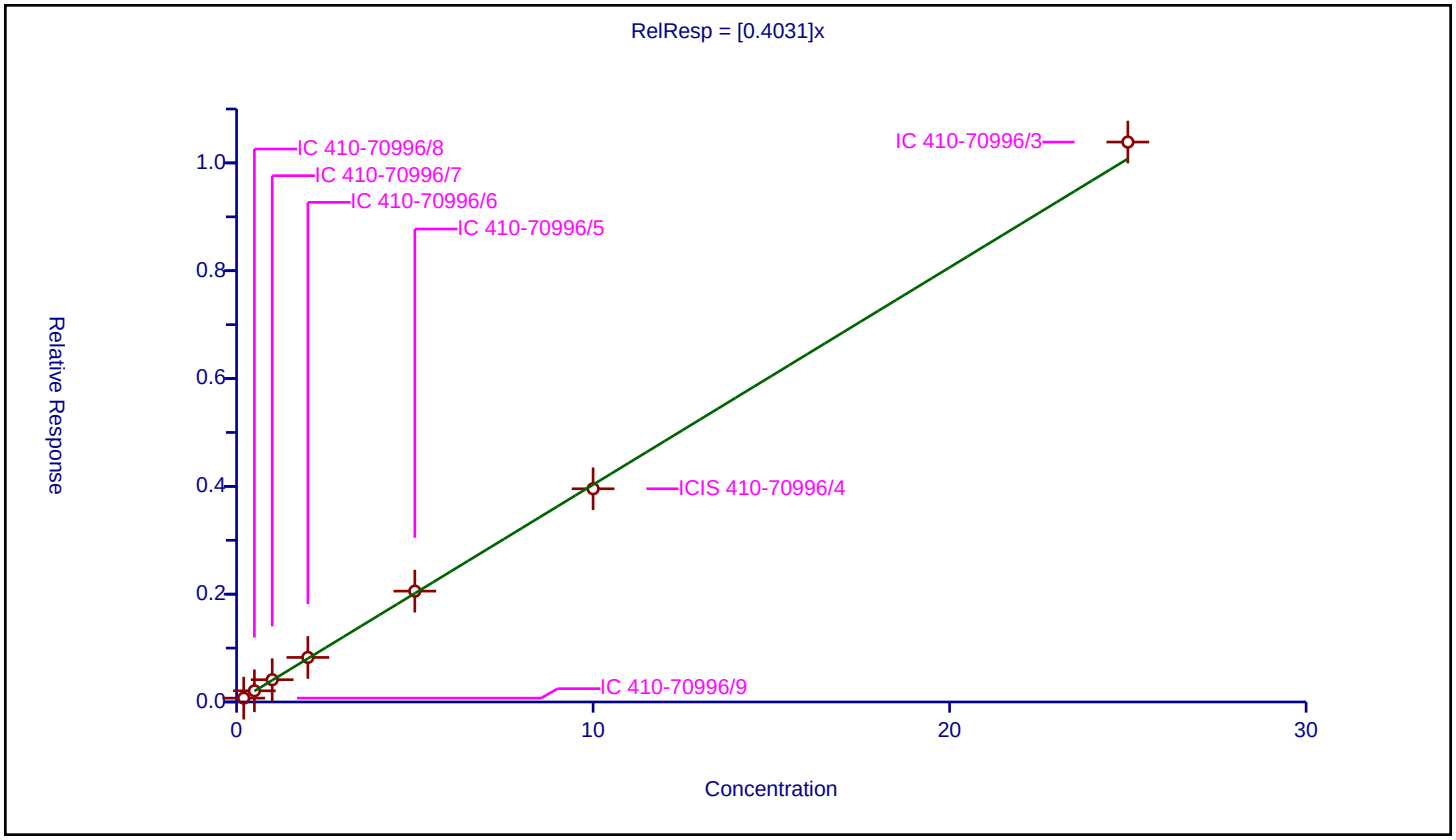
Curve Coefficients

Intercept:	0
Slope:	0.4031

Error Coefficients

Standard Error:	1040000
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 410-70996/9	0.2	0.071523	10.0	2204755.0	0.357613	Y
2	IC 410-70996/8	0.5	0.207711	10.0	2189287.0	0.415423	Y
3	IC 410-70996/7	1.0	0.413225	10.0	2211412.0	0.413225	Y
4	IC 410-70996/6	2.0	0.82624	10.0	2210035.0	0.41312	Y
5	IC 410-70996/5	5.0	2.056512	10.0	2225560.0	0.411302	Y
6	ICIS 410-70996/4	10.0	3.955152	10.0	2246480.0	0.395515	Y
7	IC 410-70996/3	25.0	10.387271	10.0	2249974.0	0.415491	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

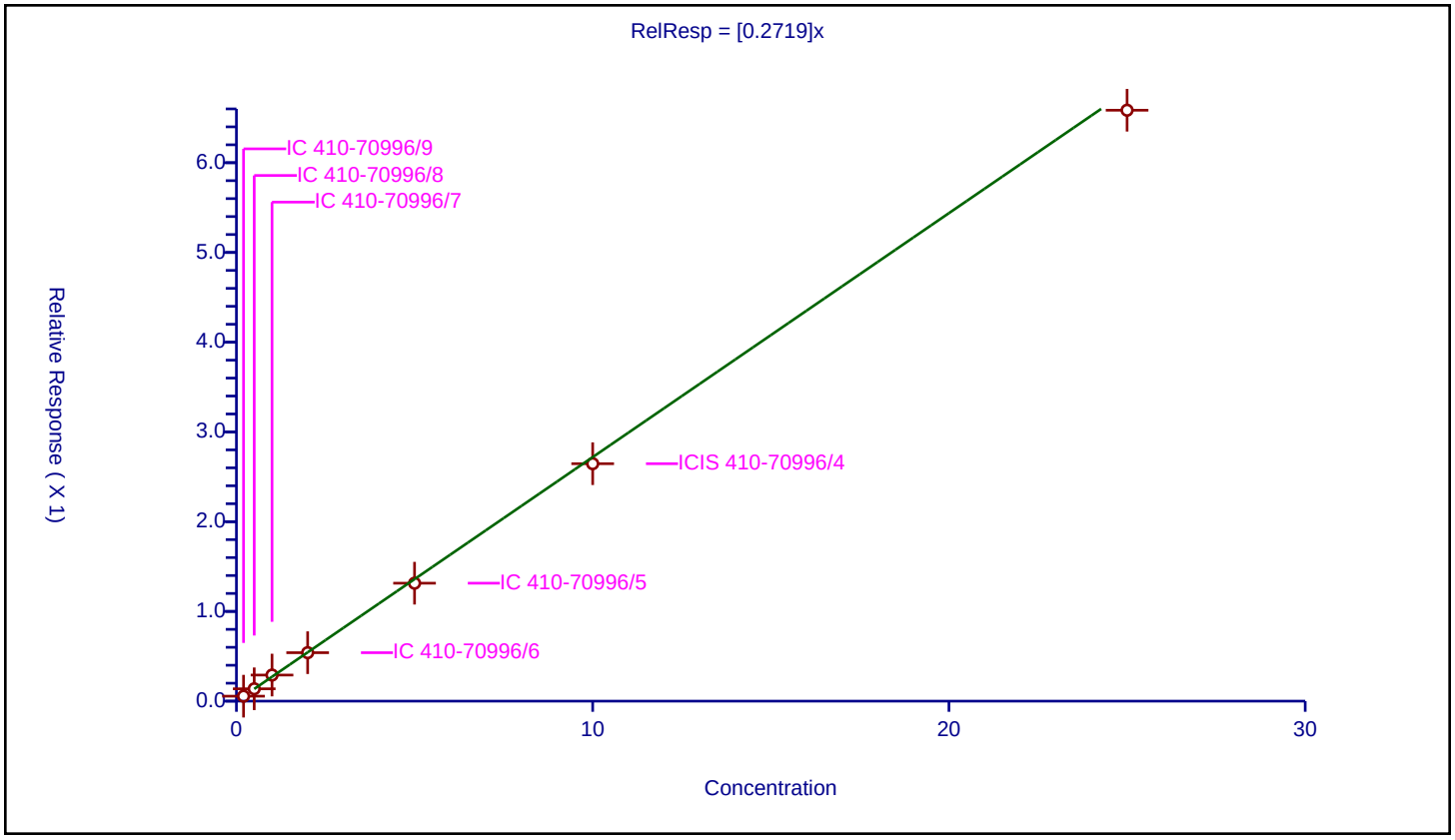
Curve Coefficients

Intercept:	0
Slope:	0.2719

Error Coefficients

Standard Error:	665000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.055285	10.0	2204755.0	0.276425	Y
2	IC 410-70996/8	0.5	0.137565	10.0	2189287.0	0.275131	Y
3	IC 410-70996/7	1.0	0.290855	10.0	2211412.0	0.290855	Y
4	IC 410-70996/6	2.0	0.540114	10.0	2210035.0	0.270057	Y
5	IC 410-70996/5	5.0	1.314352	10.0	2225560.0	0.26287	Y
6	ICIS 410-70996/4	10.0	2.646189	10.0	2246480.0	0.264619	Y
7	IC 410-70996/3	25.0	6.585227	10.0	2249974.0	0.263409	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

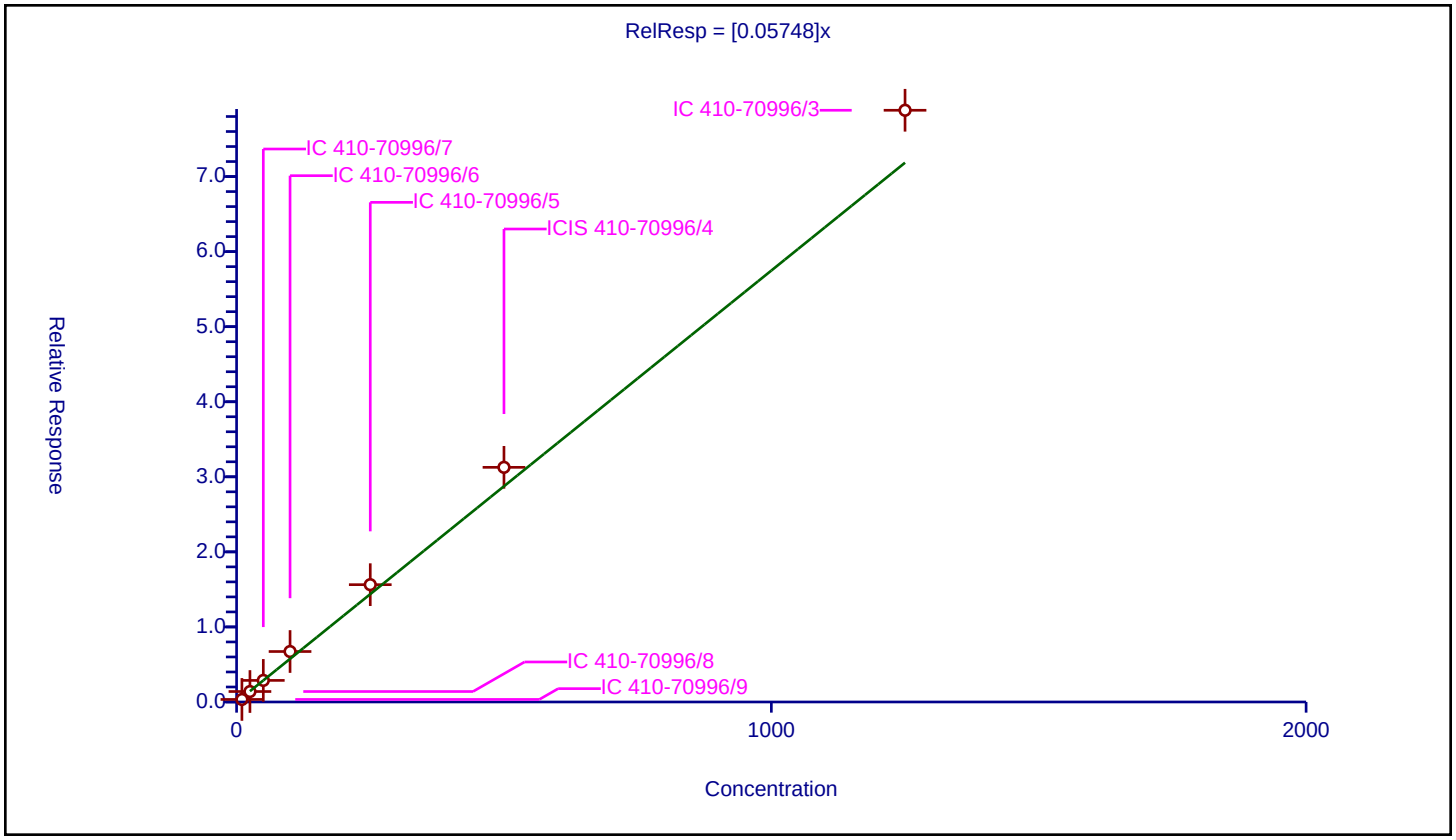
Curve Coefficients

Intercept:	0
Slope:	0.05748

Error Coefficients

Standard Error:	127000
Relative Standard Error:	19.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.960

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	10.0	0.337788	50.0	184731.0	0.033779	Y
2	IC 410-70996/8	25.0	1.393017	50.0	195834.0	0.055721	Y
3	IC 410-70996/7	50.0	2.87566	50.0	201206.0	0.057513	Y
4	IC 410-70996/6	100.0	6.724552	50.0	195329.0	0.067246	Y
5	IC 410-70996/5	250.0	15.62863	50.0	183343.0	0.062515	Y
6	ICIS 410-70996/4	500.0	31.260546	50.0	186094.0	0.062521	Y
7	IC 410-70996/3	1250.0	78.831721	50.0	177877.0	0.063065	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

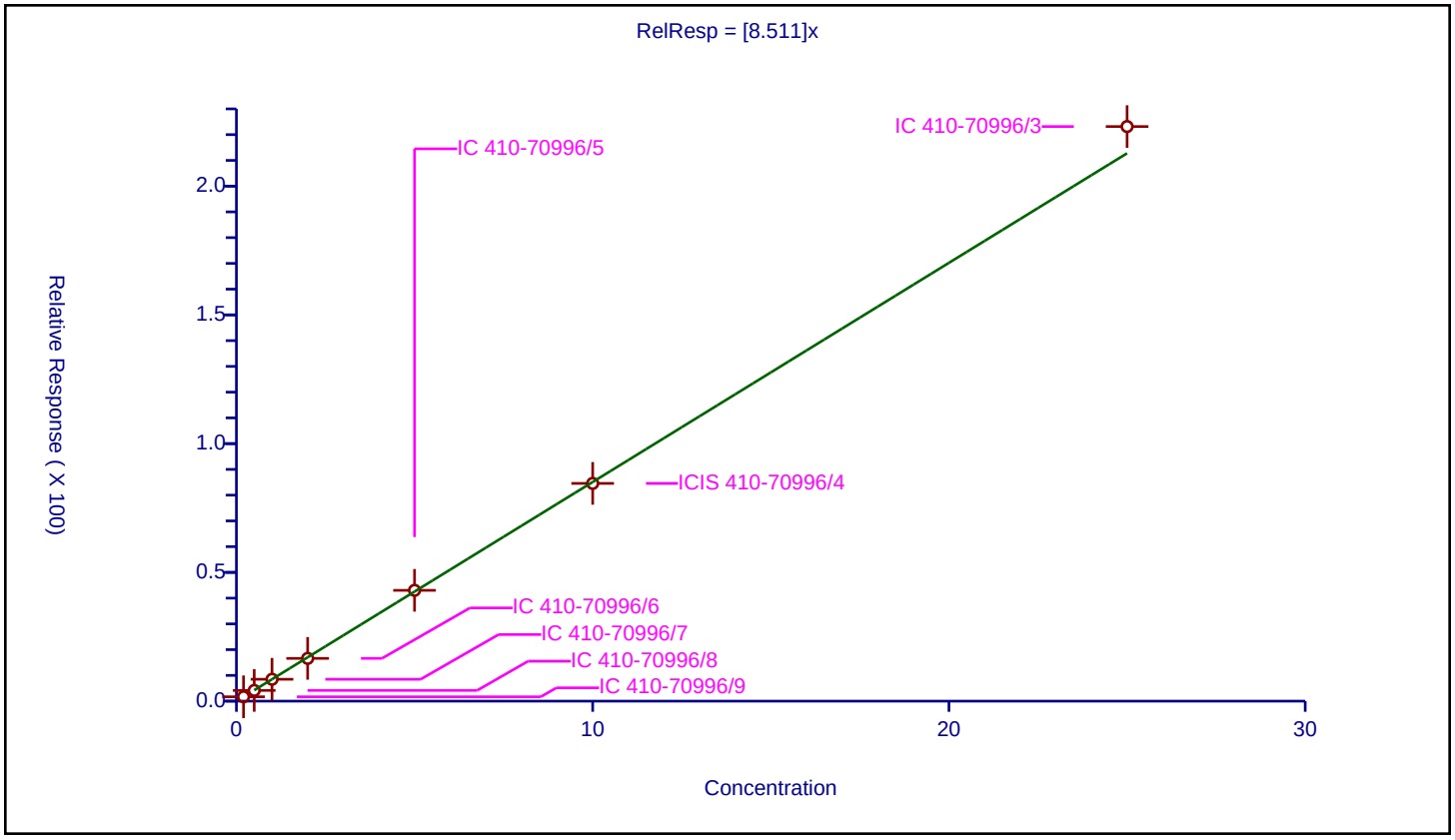
Curve Coefficients

Intercept:	0
Slope:	8.511

Error Coefficients

Standard Error:	356000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	1.691108	50.0	184731.0	8.455538	Y
2	IC 410-70996/8	0.5	4.161943	50.0	195834.0	8.323887	Y
3	IC 410-70996/7	1.0	8.502232	50.0	201206.0	8.502232	Y
4	IC 410-70996/6	2.0	16.609669	50.0	195329.0	8.304834	Y
5	IC 410-70996/5	5.0	43.028368	50.0	183343.0	8.605674	Y
6	ICIS 410-70996/4	10.0	84.557535	50.0	186094.0	8.455754	Y
7	IC 410-70996/3	25.0	223.141272	50.0	177877.0	8.925651	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

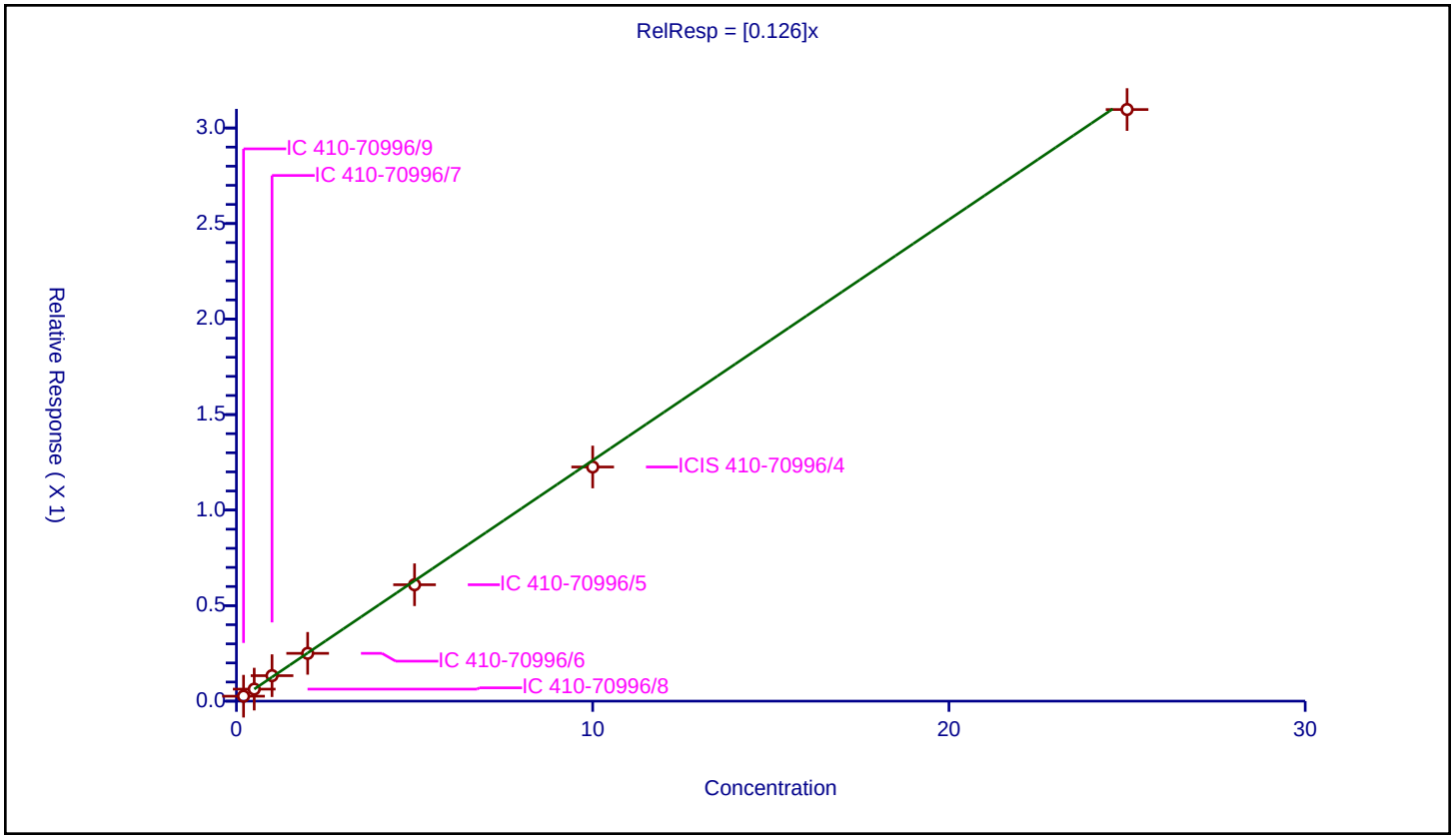
Curve Coefficients

Intercept:	0
Slope:	0.126

Error Coefficients

Standard Error:	312000
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 410-70996/9	0.2	0.025926	10.0	2204755.0	0.129629	Y
2	IC 410-70996/8	0.5	0.062929	10.0	2189287.0	0.125858	Y
3	IC 410-70996/7	1.0	0.133286	10.0	2211412.0	0.133286	Y
4	IC 410-70996/6	2.0	0.25024	10.0	2210035.0	0.12512	Y
5	IC 410-70996/5	5.0	0.60924	10.0	2225560.0	0.121848	Y
6	ICIS 410-70996/4	10.0	1.225575	10.0	2246480.0	0.122558	Y
7	IC 410-70996/3	25.0	3.09668	10.0	2249974.0	0.123867	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

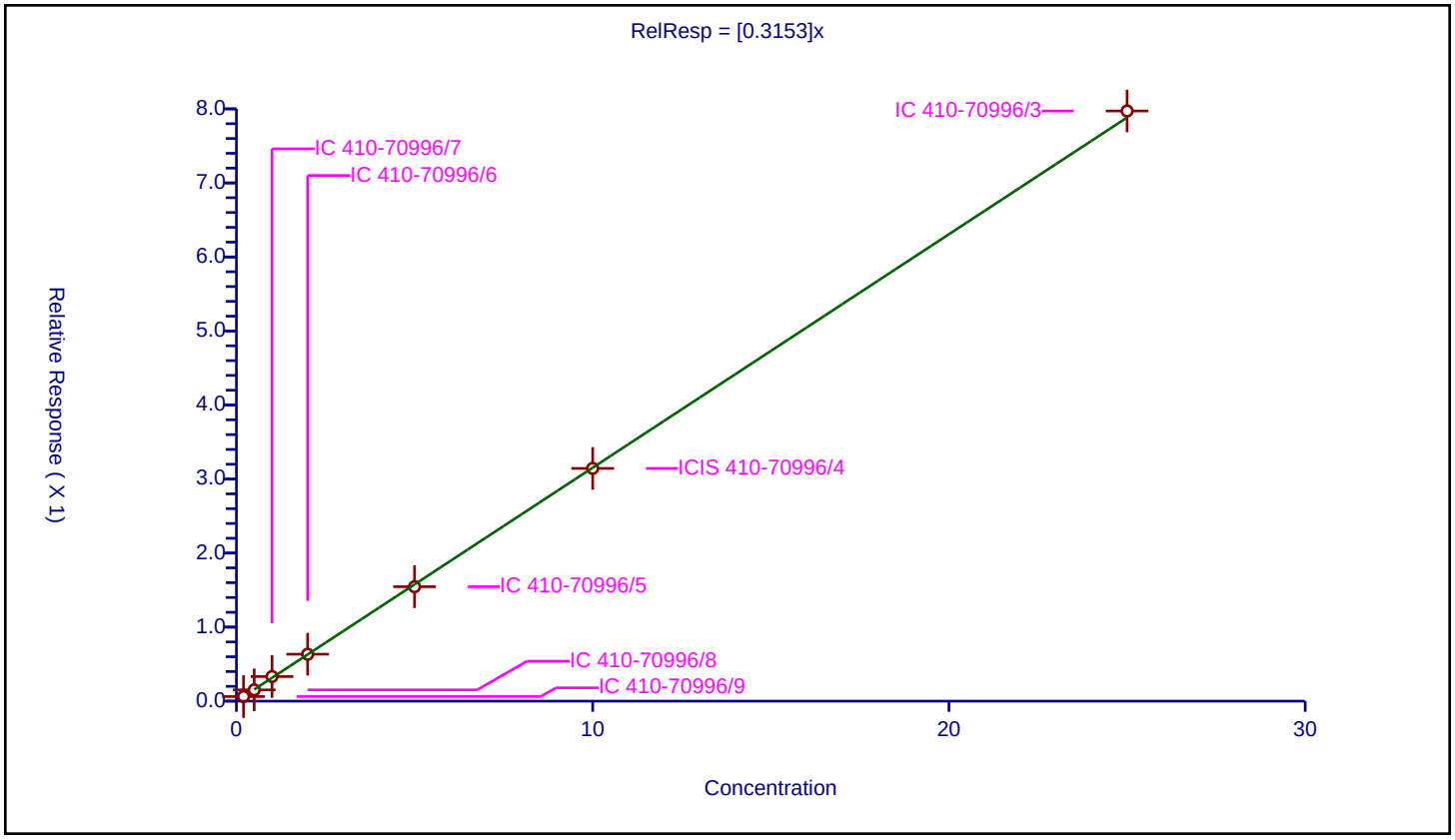
Curve Coefficients

Intercept:	0
Slope:	0.3153

Error Coefficients

Standard Error:	802000
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 410-70996/9	0.2	0.062129	10.0	2204755.0	0.310647	Y
2	IC 410-70996/8	0.5	0.152525	10.0	2189287.0	0.305049	Y
3	IC 410-70996/7	1.0	0.332204	10.0	2211412.0	0.332204	Y
4	IC 410-70996/6	2.0	0.634153	10.0	2210035.0	0.317076	Y
5	IC 410-70996/5	5.0	1.545624	10.0	2225560.0	0.309125	Y
6	ICIS 410-70996/4	10.0	3.143829	10.0	2246480.0	0.314383	Y
7	IC 410-70996/3	25.0	7.971439	10.0	2249974.0	0.318858	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

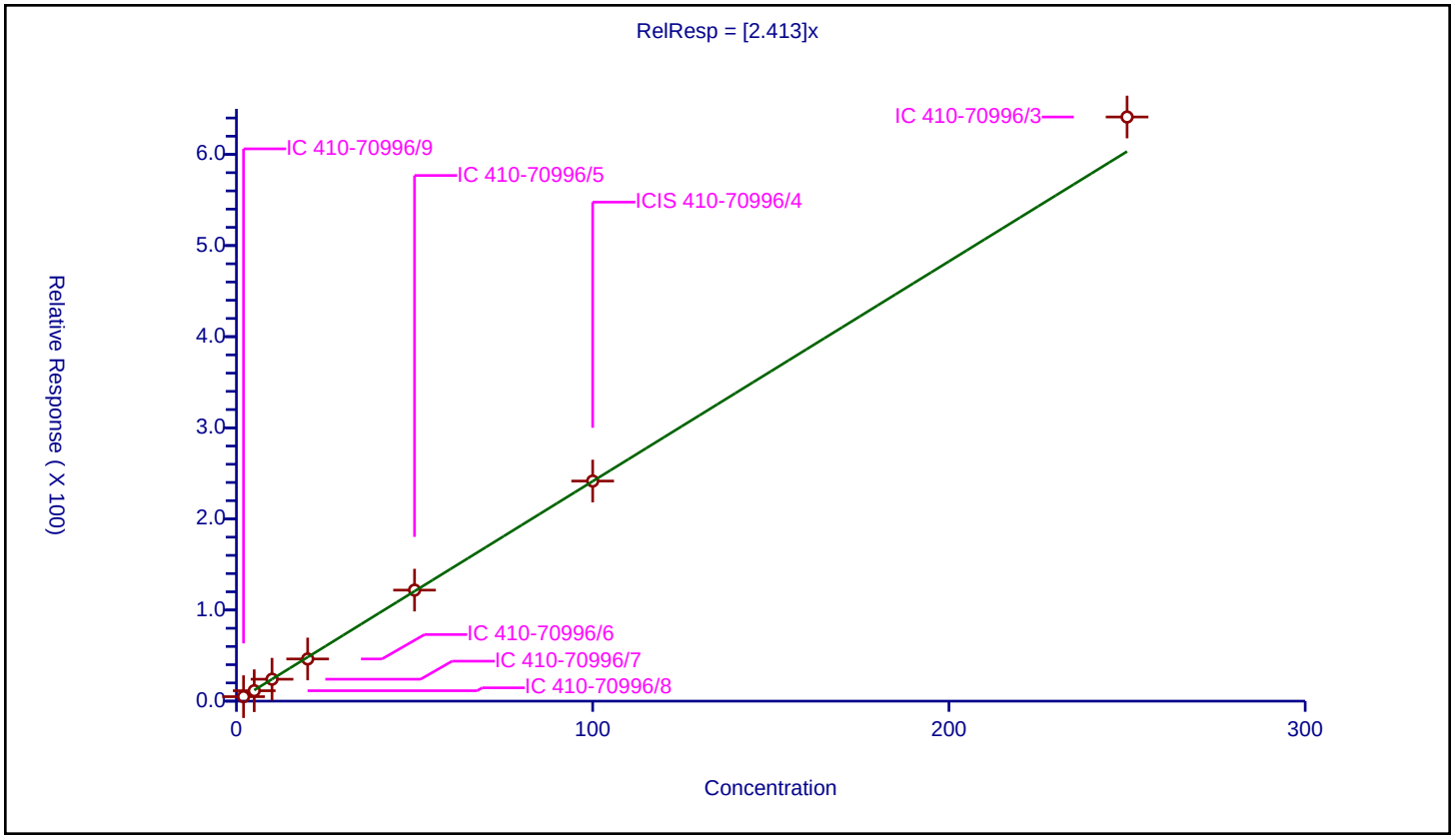
Curve Coefficients

Intercept:	0
Slope:	2.413

Error Coefficients

Standard Error:	1020000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	2.0	4.923646	50.0	184731.0	2.461823	Y
2	IC 410-70996/8	5.0	11.454344	50.0	195834.0	2.290869	Y
3	IC 410-70996/7	10.0	24.079053	50.0	201206.0	2.407905	Y
4	IC 410-70996/6	20.0	46.278586	50.0	195329.0	2.313929	Y
5	IC 410-70996/5	50.0	121.859847	50.0	183343.0	2.437197	Y
6	ICIS 410-70996/4	100.0	241.561523	50.0	186094.0	2.415615	Y
7	IC 410-70996/3	250.0	641.125328	50.0	177877.0	2.564501	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

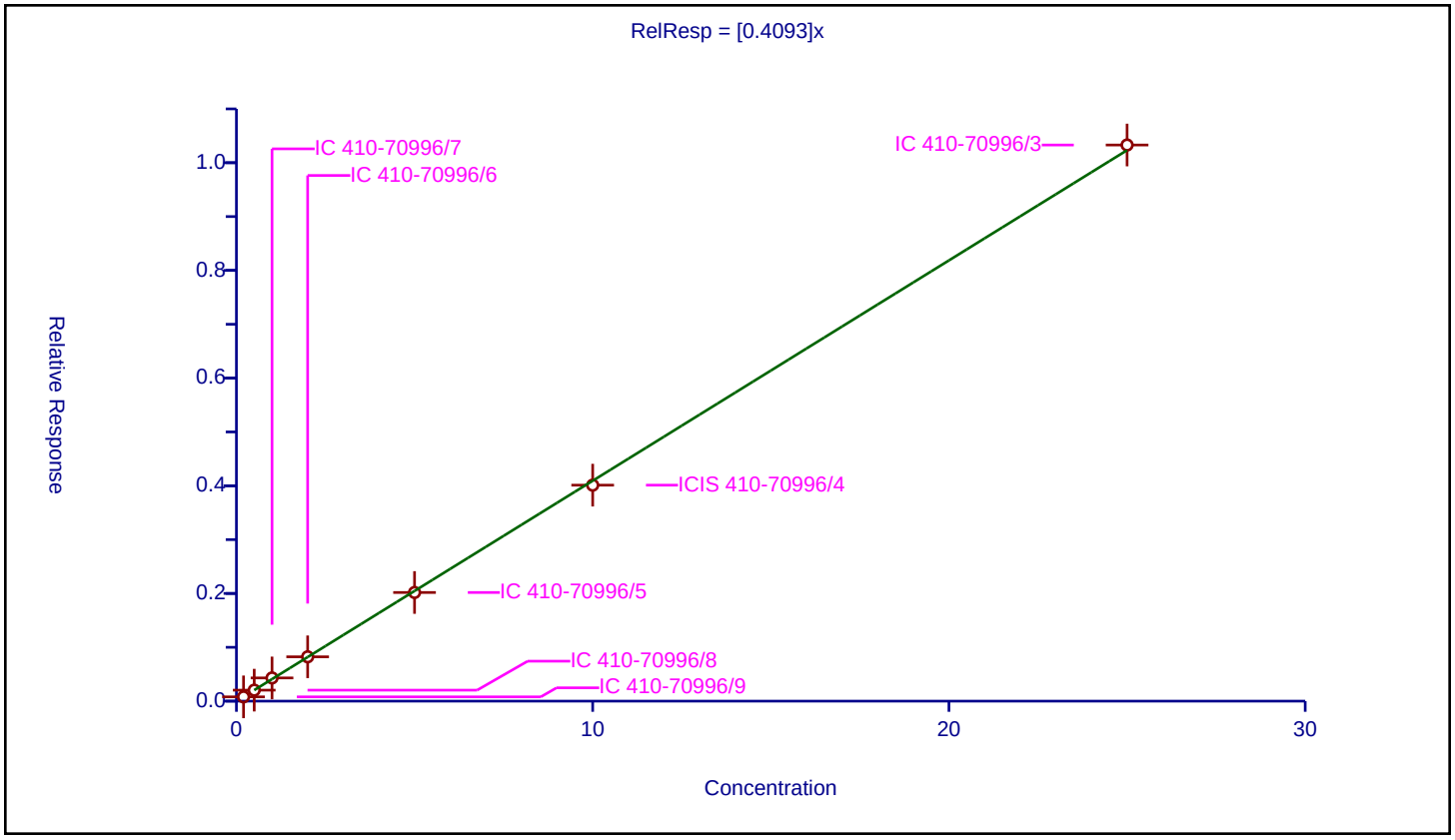
Curve Coefficients

Intercept:	0
Slope:	0.4093

Error Coefficients

Standard Error:	1040000
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 410-70996/9	0.2	0.079156	10.0	2204755.0	0.395781	Y
2	IC 410-70996/8	0.5	0.204222	10.0	2189287.0	0.408443	Y
3	IC 410-70996/7	1.0	0.431295	10.0	2211412.0	0.431295	Y
4	IC 410-70996/6	2.0	0.823268	10.0	2210035.0	0.411634	Y
5	IC 410-70996/5	5.0	2.017879	10.0	2225560.0	0.403576	Y
6	ICIS 410-70996/4	10.0	4.011596	10.0	2246480.0	0.40116	Y
7	IC 410-70996/3	25.0	10.329333	10.0	2249974.0	0.413173	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

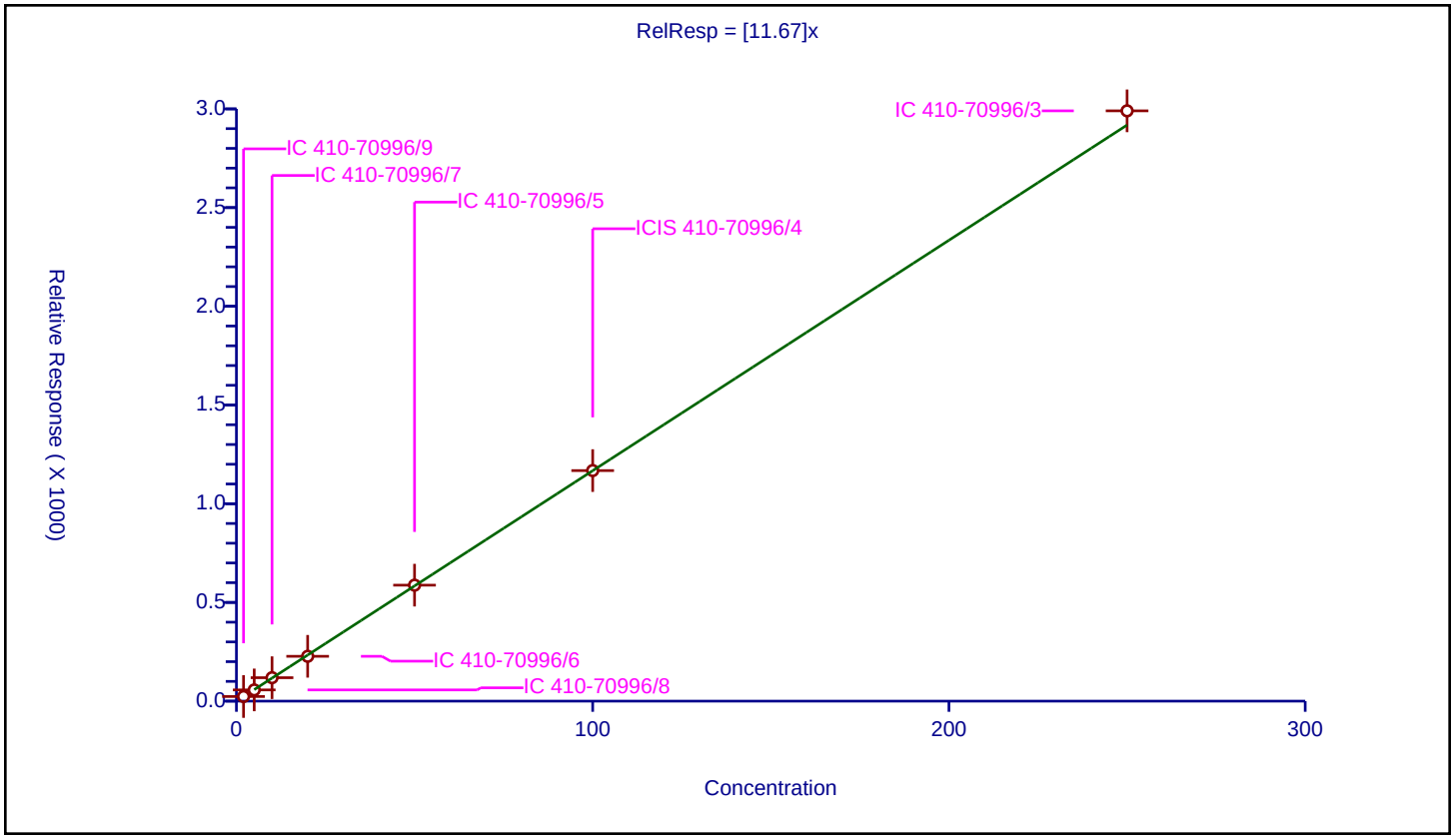
Curve Coefficients

Intercept:	0
Slope:	11.67

Error Coefficients

Standard Error:	4790000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	2.0	23.391039	50.0	184731.0	11.695519	Y
2	IC 410-70996/8	5.0	56.924487	50.0	195834.0	11.384897	Y
3	IC 410-70996/7	10.0	118.830949	50.0	201206.0	11.883095	Y
4	IC 410-70996/6	20.0	227.15905	50.0	195329.0	11.357952	Y
5	IC 410-70996/5	50.0	587.488478	50.0	183343.0	11.74977	Y
6	ICIS 410-70996/4	100.0	1167.831042	50.0	186094.0	11.67831	Y
7	IC 410-70996/3	250.0	2990.204467	50.0	177877.0	11.960818	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

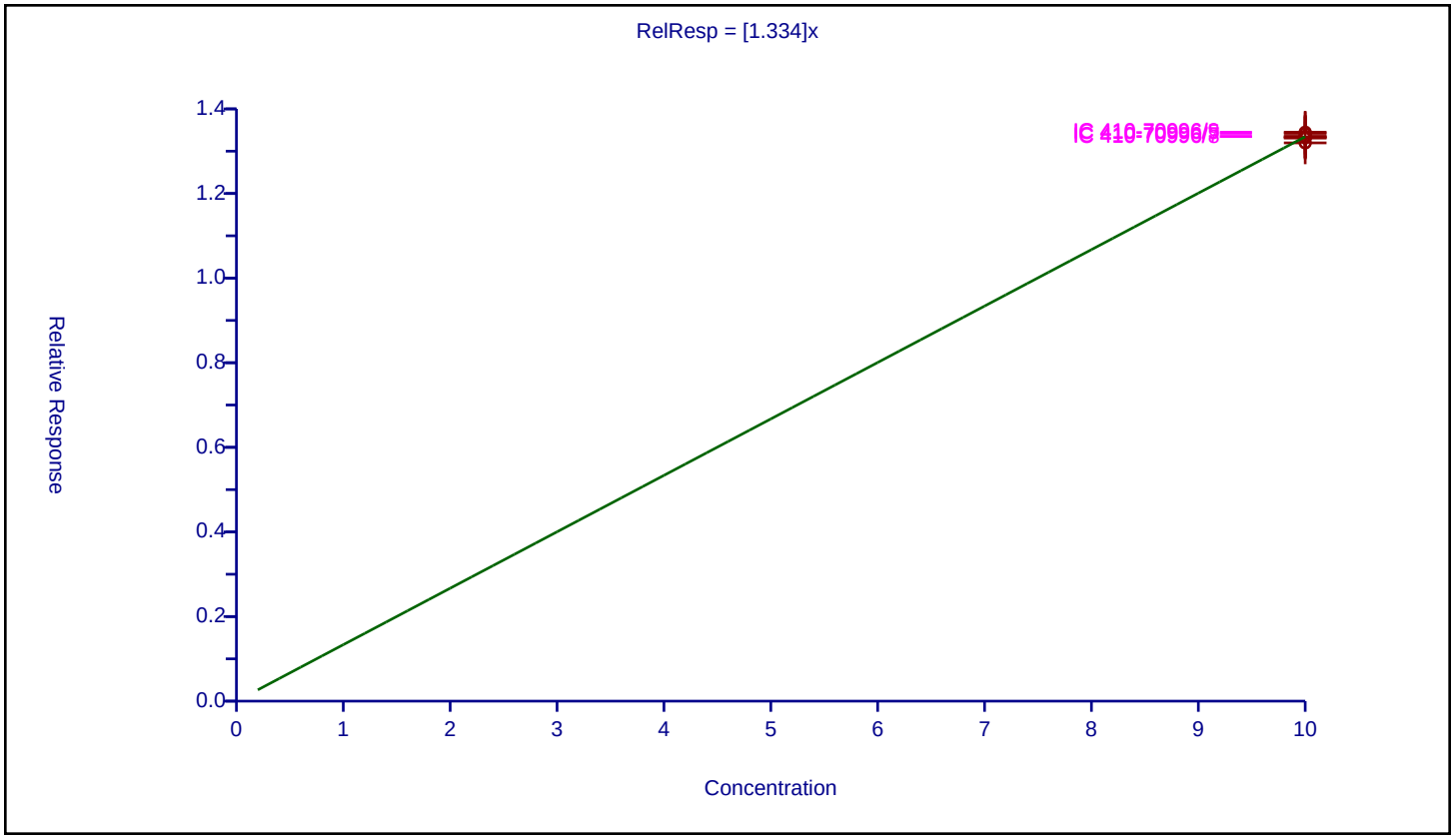
Curve Coefficients

Intercept:	0
Slope:	1.334

Error Coefficients

Standard Error:	2320000
Relative Standard Error:	0.6
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/3	10.0	13.196575	10.0	1658425.0	1.319658	Y
2	ICIS 410-70996/4	10.0	13.31712	10.0	1636269.0	1.331712	Y
3	IC 410-70996/5	10.0	13.421252	10.0	1611346.0	1.342125	Y
4	IC 410-70996/6	10.0	13.314342	10.0	1604620.0	1.331434	Y
5	IC 410-70996/7	10.0	13.349116	10.0	1600264.0	1.334912	Y
6	IC 410-70996/8	10.0	13.345384	10.0	1589997.0	1.334538	Y
7	IC 410-70996/9	10.0	13.44899	10.0	1578236.0	1.344899	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

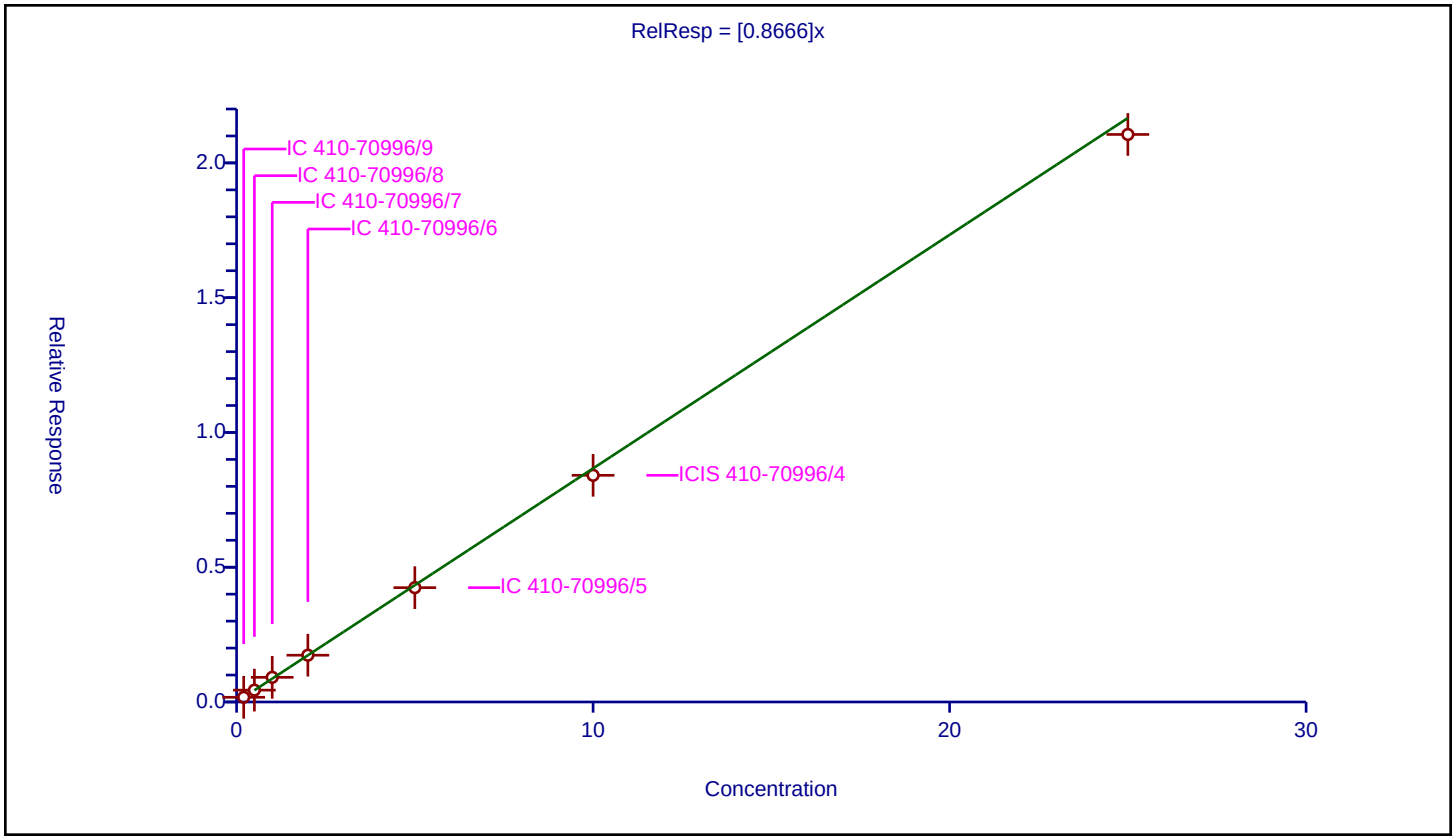
Curve Coefficients

Intercept:	0
Slope:	0.8666

Error Coefficients

Standard Error:	1560000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.174701	10.0	1578236.0	0.873507	Y
2	IC 410-70996/8	0.5	0.439328	10.0	1589997.0	0.878656	Y
3	IC 410-70996/7	1.0	0.914393	10.0	1600264.0	0.914393	Y
4	IC 410-70996/6	2.0	1.736181	10.0	1604620.0	0.86809	Y
5	IC 410-70996/5	5.0	4.241764	10.0	1611346.0	0.848353	Y
6	ICIS 410-70996/4	10.0	8.409821	10.0	1636269.0	0.840982	Y
7	IC 410-70996/3	25.0	21.056135	10.0	1658425.0	0.842245	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

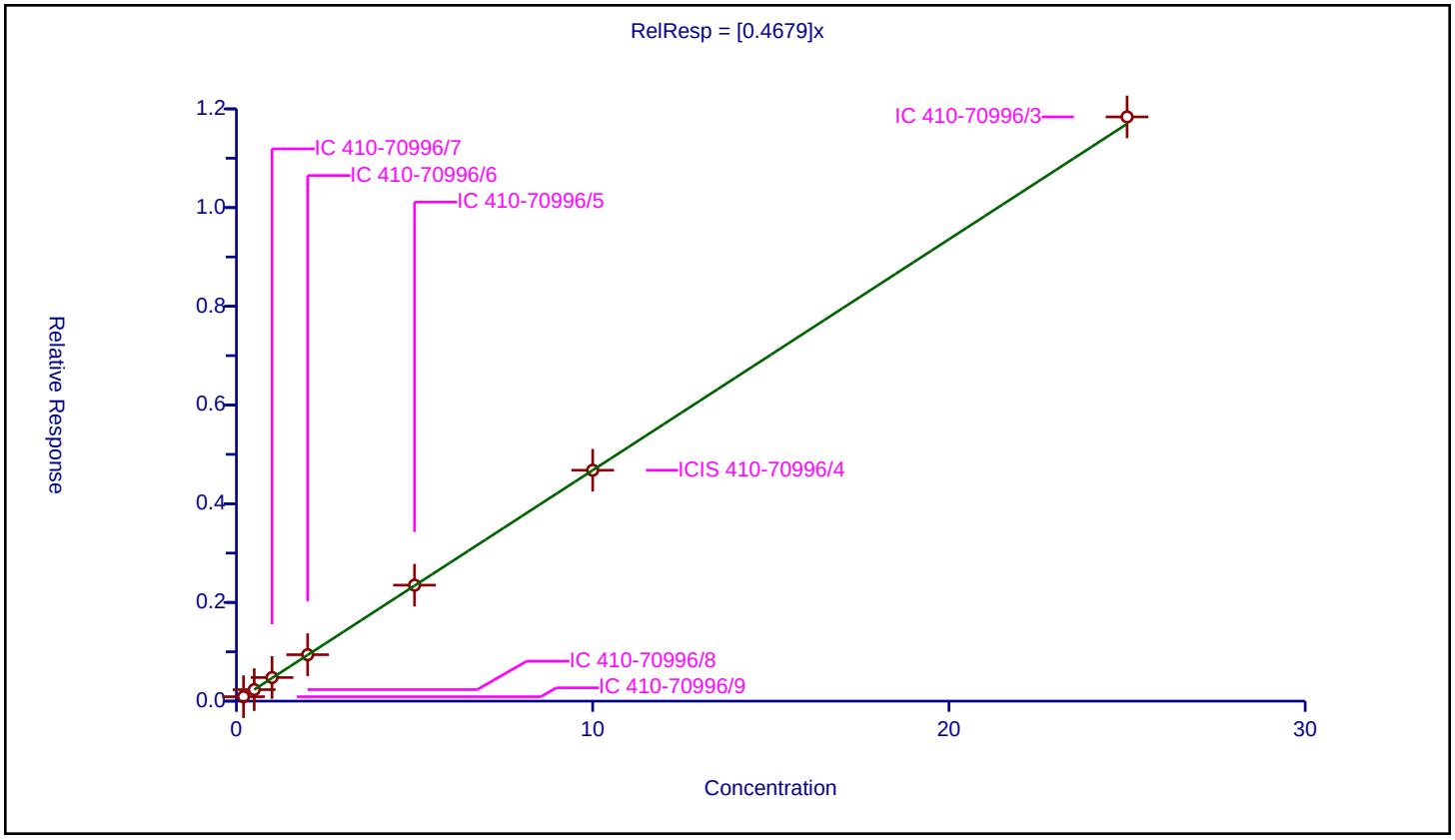
Curve Coefficients

Intercept:	0
Slope:	0.4679

Error Coefficients

Standard Error:	877000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.089695	10.0	1578236.0	0.448475	Y
2	IC 410-70996/8	0.5	0.23329	10.0	1589997.0	0.466579	Y
3	IC 410-70996/7	1.0	0.47844	10.0	1600264.0	0.47844	Y
4	IC 410-70996/6	2.0	0.940634	10.0	1604620.0	0.470317	Y
5	IC 410-70996/5	5.0	2.349893	10.0	1611346.0	0.469979	Y
6	ICIS 410-70996/4	10.0	4.678436	10.0	1636269.0	0.467844	Y
7	IC 410-70996/3	25.0	11.83734	10.0	1658425.0	0.473494	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

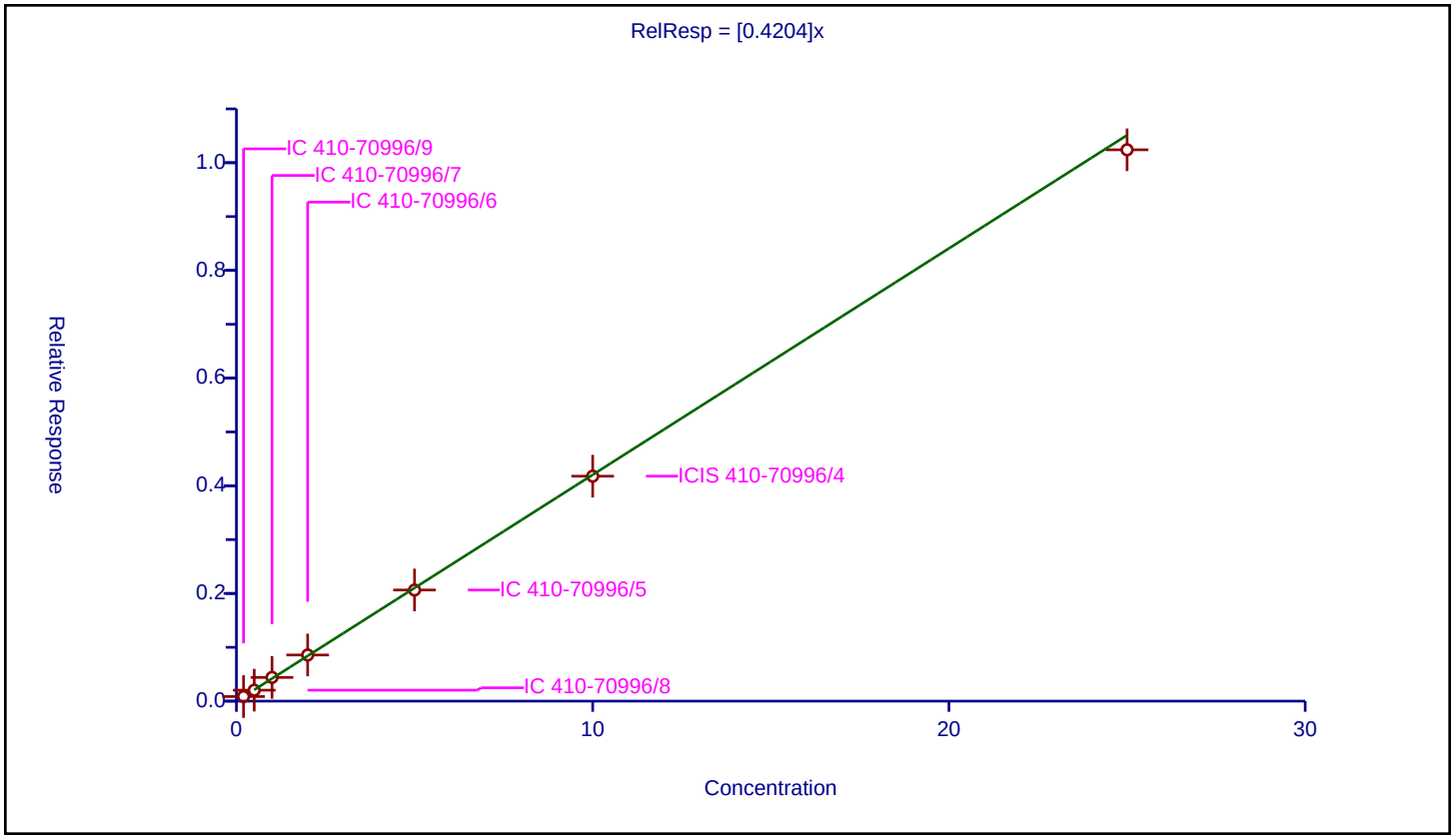
Curve Coefficients

Intercept:	0
Slope:	0.4204

Error Coefficients

Standard Error:	762000
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 410-70996/9	0.2	0.085348	10.0	1578236.0	0.426742	Y
2	IC 410-70996/8	0.5	0.203466	10.0	1589997.0	0.406932	Y
3	IC 410-70996/7	1.0	0.440752	10.0	1600264.0	0.440752	Y
4	IC 410-70996/6	2.0	0.856919	10.0	1604620.0	0.42846	Y
5	IC 410-70996/5	5.0	2.063871	10.0	1611346.0	0.412774	Y
6	ICIS 410-70996/4	10.0	4.178243	10.0	1636269.0	0.417824	Y
7	IC 410-70996/3	25.0	10.240385	10.0	1658425.0	0.409615	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

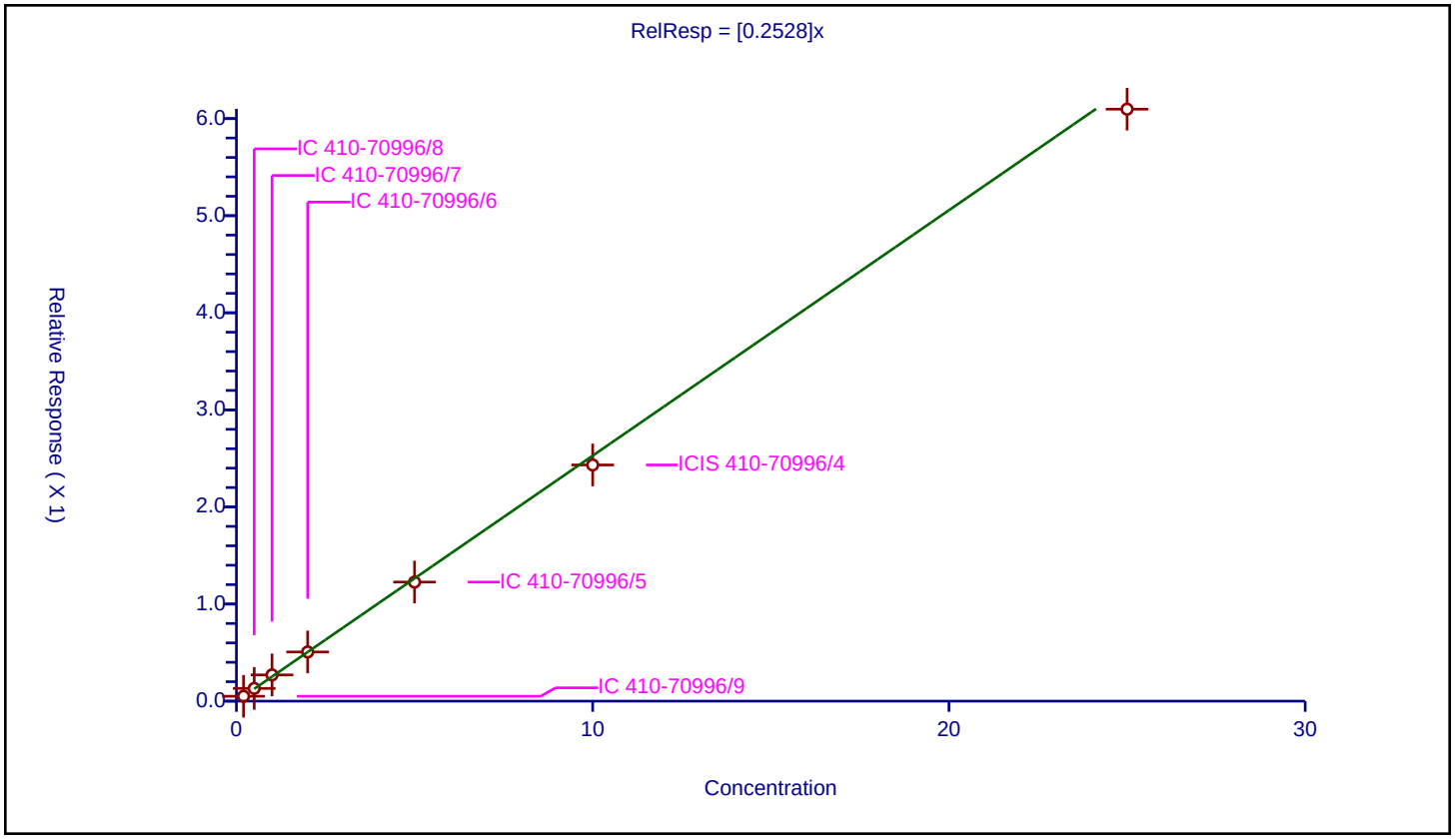
Curve Coefficients

Intercept:	0
Slope:	0.2528

Error Coefficients

Standard Error:	453000
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 410-70996/9	0.2	0.050259	10.0	1578236.0	0.251293	Y
2	IC 410-70996/8	0.5	0.131195	10.0	1589997.0	0.26239	Y
3	IC 410-70996/7	1.0	0.270324	10.0	1600264.0	0.270324	Y
4	IC 410-70996/6	2.0	0.506413	10.0	1604620.0	0.253206	Y
5	IC 410-70996/5	5.0	1.22631	10.0	1611346.0	0.245262	Y
6	ICIS 410-70996/4	10.0	2.432687	10.0	1636269.0	0.243269	Y
7	IC 410-70996/3	25.0	6.097068	10.0	1658425.0	0.243883	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

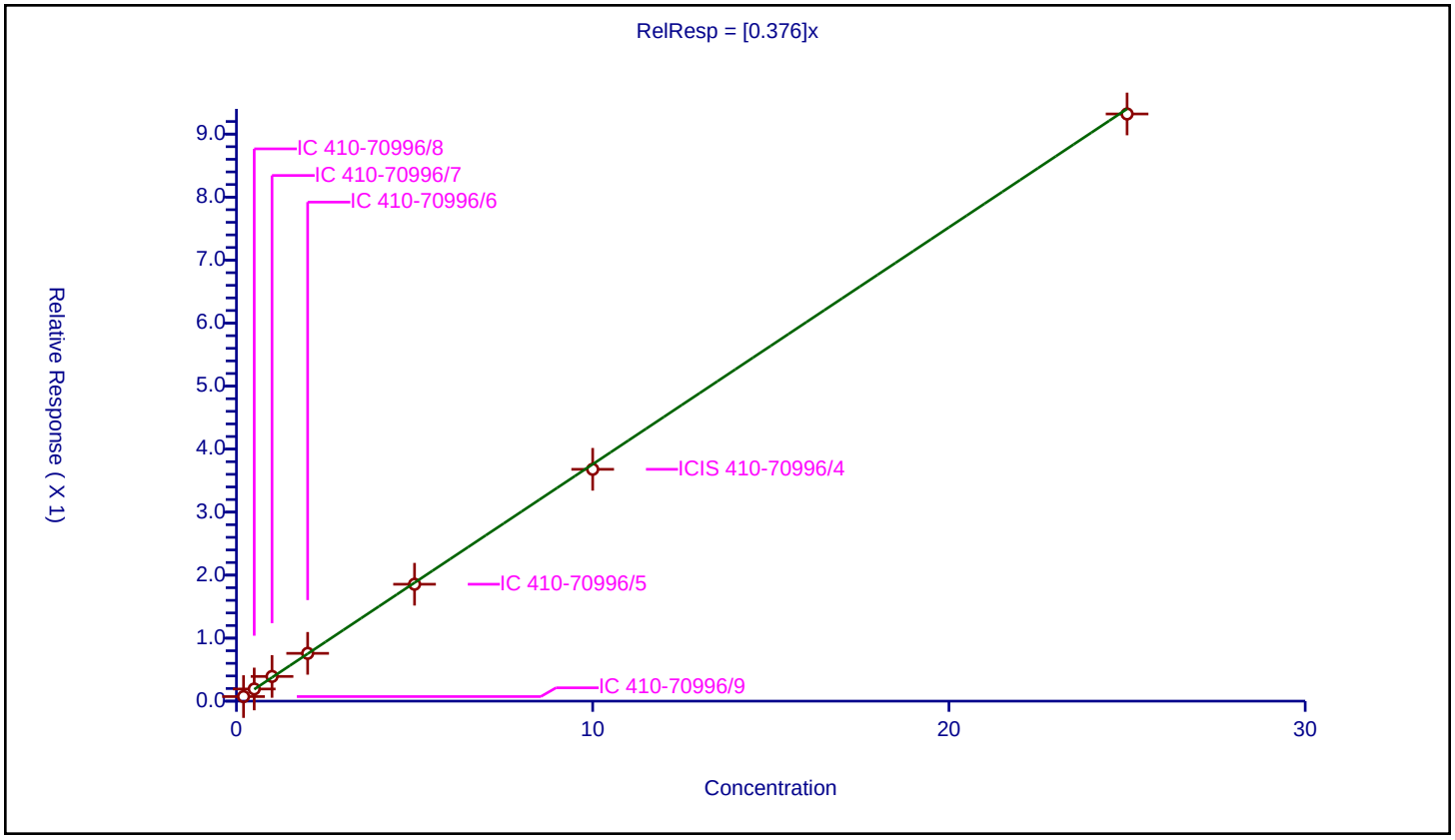
Curve Coefficients

Intercept:	0
Slope:	0.376

Error Coefficients

Standard Error:	690000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.0726	10.0	1578236.0	0.363	Y
2	IC 410-70996/8	0.5	0.193013	10.0	1589997.0	0.386026	Y
3	IC 410-70996/7	1.0	0.391935	10.0	1600264.0	0.391935	Y
4	IC 410-70996/6	2.0	0.75841	10.0	1604620.0	0.379205	Y
5	IC 410-70996/5	5.0	1.855461	10.0	1611346.0	0.371092	Y
6	ICIS 410-70996/4	10.0	3.679462	10.0	1636269.0	0.367946	Y
7	IC 410-70996/3	25.0	9.319825	10.0	1658425.0	0.372793	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

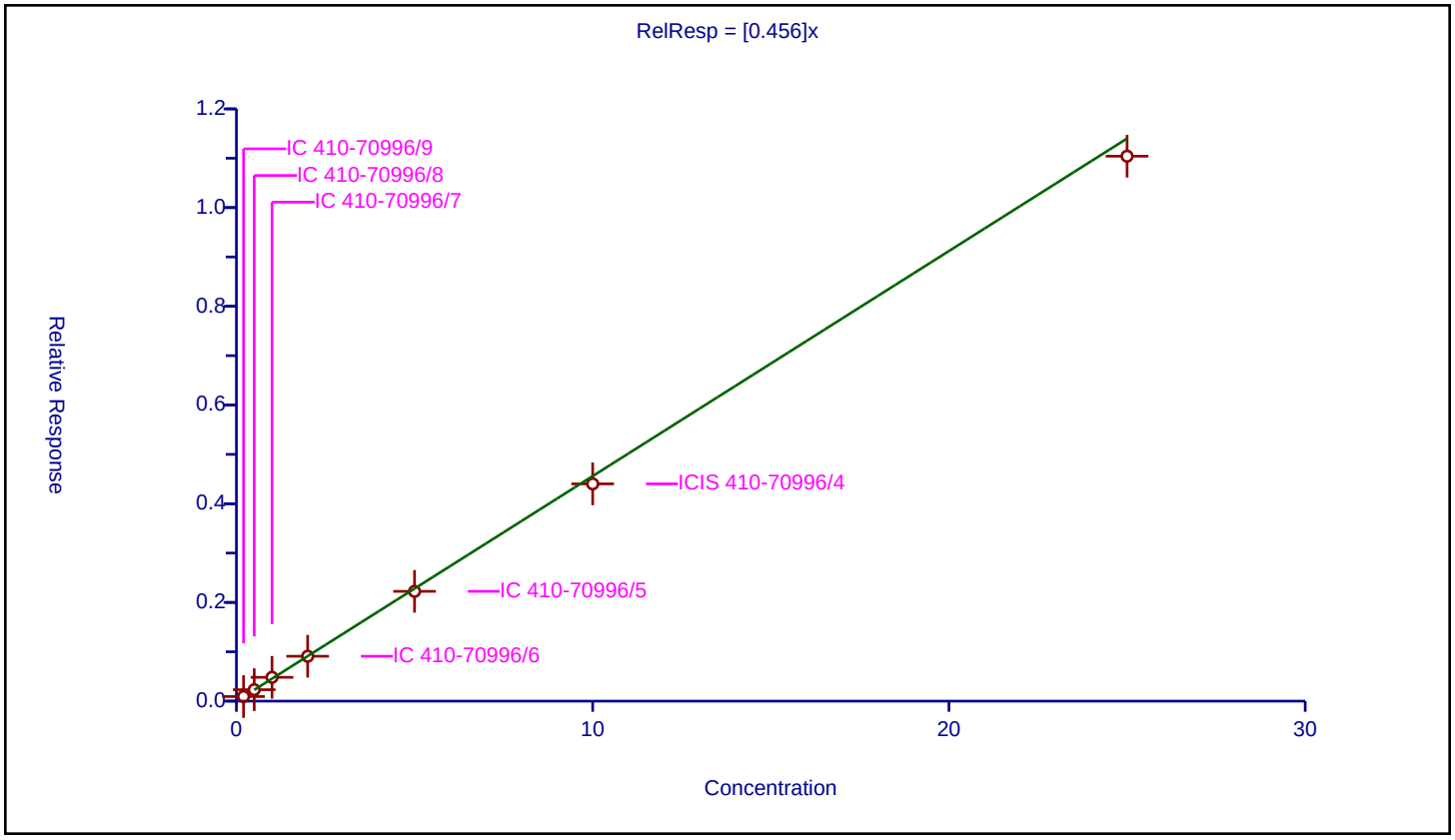
Curve Coefficients

Intercept:	0
Slope:	0.456

Error Coefficients

Standard Error:	819000
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 410-70996/9	0.2	0.092838	10.0	1578236.0	0.464189	Y
2	IC 410-70996/8	0.5	0.231761	10.0	1589997.0	0.463523	Y
3	IC 410-70996/7	1.0	0.482683	10.0	1600264.0	0.482683	Y
4	IC 410-70996/6	2.0	0.909599	10.0	1604620.0	0.454799	Y
5	IC 410-70996/5	5.0	2.2246	10.0	1611346.0	0.44492	Y
6	ICIS 410-70996/4	10.0	4.402057	10.0	1636269.0	0.440206	Y
7	IC 410-70996/3	25.0	11.041796	10.0	1658425.0	0.441672	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

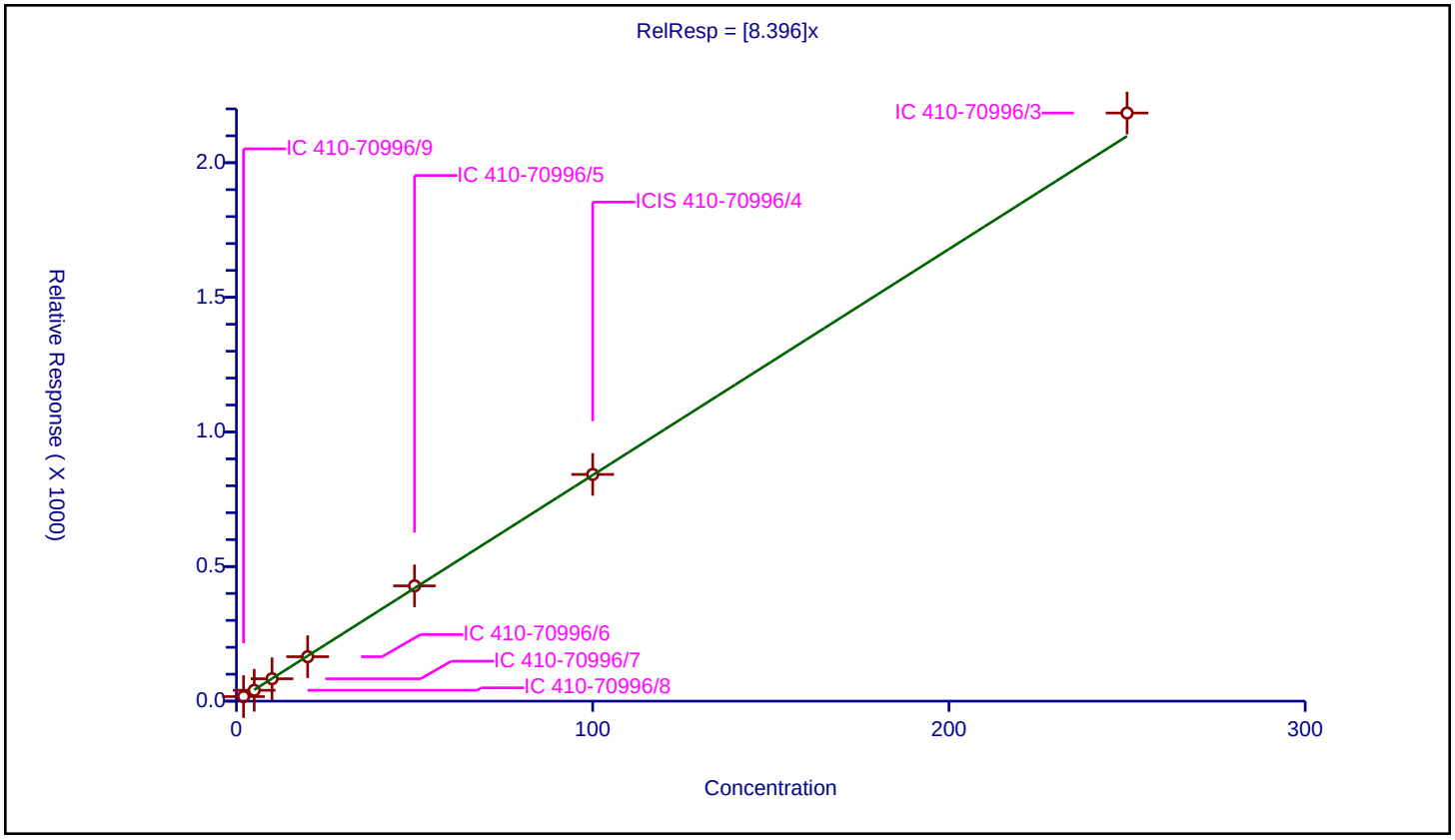
Curve Coefficients

Intercept:	0
Slope:	8.396

Error Coefficients

Standard Error:	3490000
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 410-70996/9	2.0	16.8269	50.0	184731.0	8.41345	Y
2	IC 410-70996/8	5.0	40.275693	50.0	195834.0	8.055139	Y
3	IC 410-70996/7	10.0	83.203533	50.0	201206.0	8.320353	Y
4	IC 410-70996/6	20.0	165.119875	50.0	195329.0	8.255994	Y
5	IC 410-70996/5	50.0	428.222785	50.0	183343.0	8.564456	Y
6	ICIS 410-70996/4	100.0	842.208776	50.0	186094.0	8.422088	Y
7	IC 410-70996/3	250.0	2184.644164	50.0	177877.0	8.738577	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

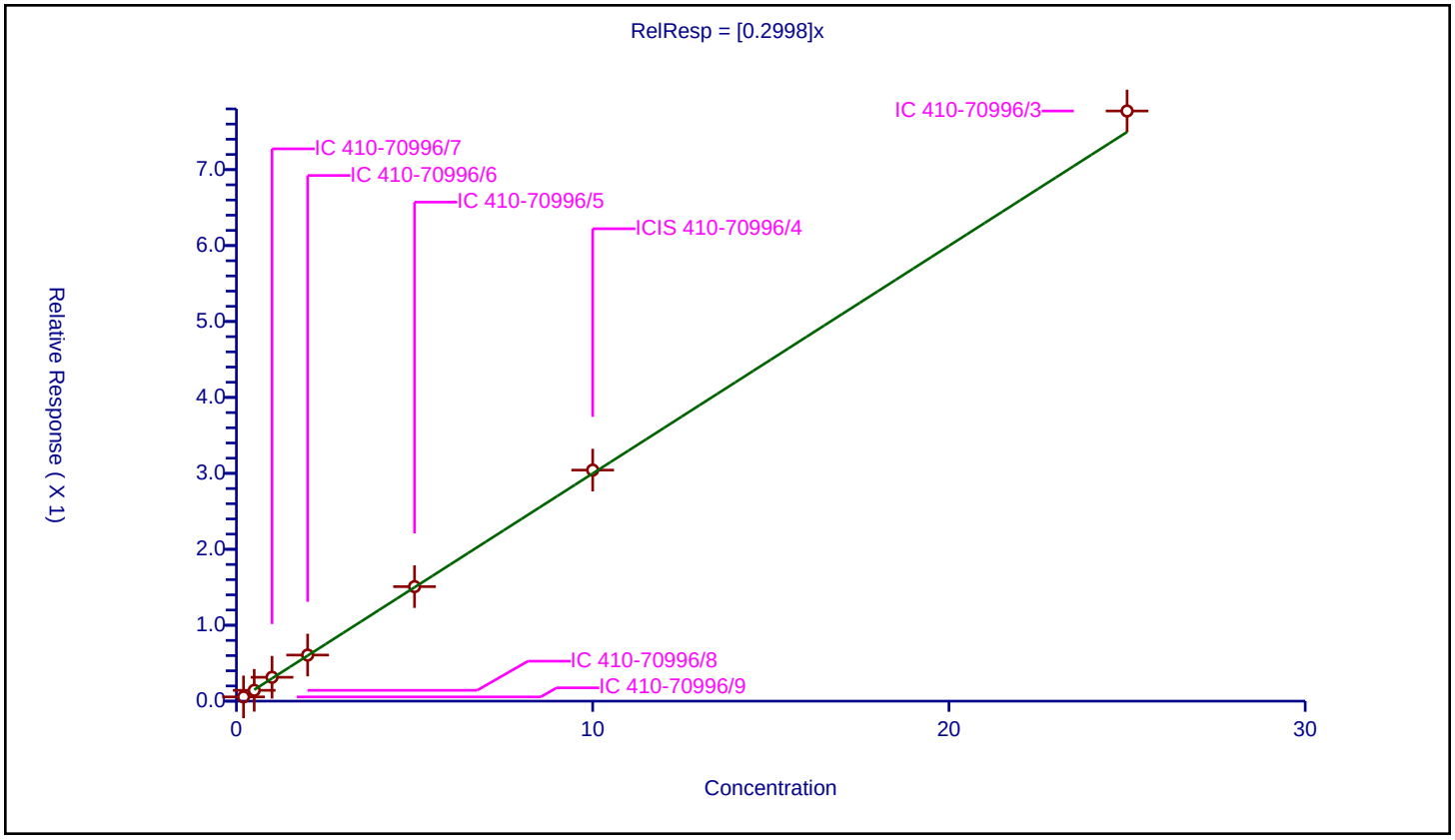
Curve Coefficients

Intercept:	0
Slope:	0.2998

Error Coefficients

Standard Error:	575000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.055809	10.0	1578236.0	0.279046	Y
2	IC 410-70996/8	0.5	0.142491	10.0	1589997.0	0.284982	Y
3	IC 410-70996/7	1.0	0.314567	10.0	1600264.0	0.314567	Y
4	IC 410-70996/6	2.0	0.606879	10.0	1604620.0	0.303439	Y
5	IC 410-70996/5	5.0	1.508099	10.0	1611346.0	0.30162	Y
6	ICIS 410-70996/4	10.0	3.042758	10.0	1636269.0	0.304276	Y
7	IC 410-70996/3	25.0	7.772314	10.0	1658425.0	0.310893	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

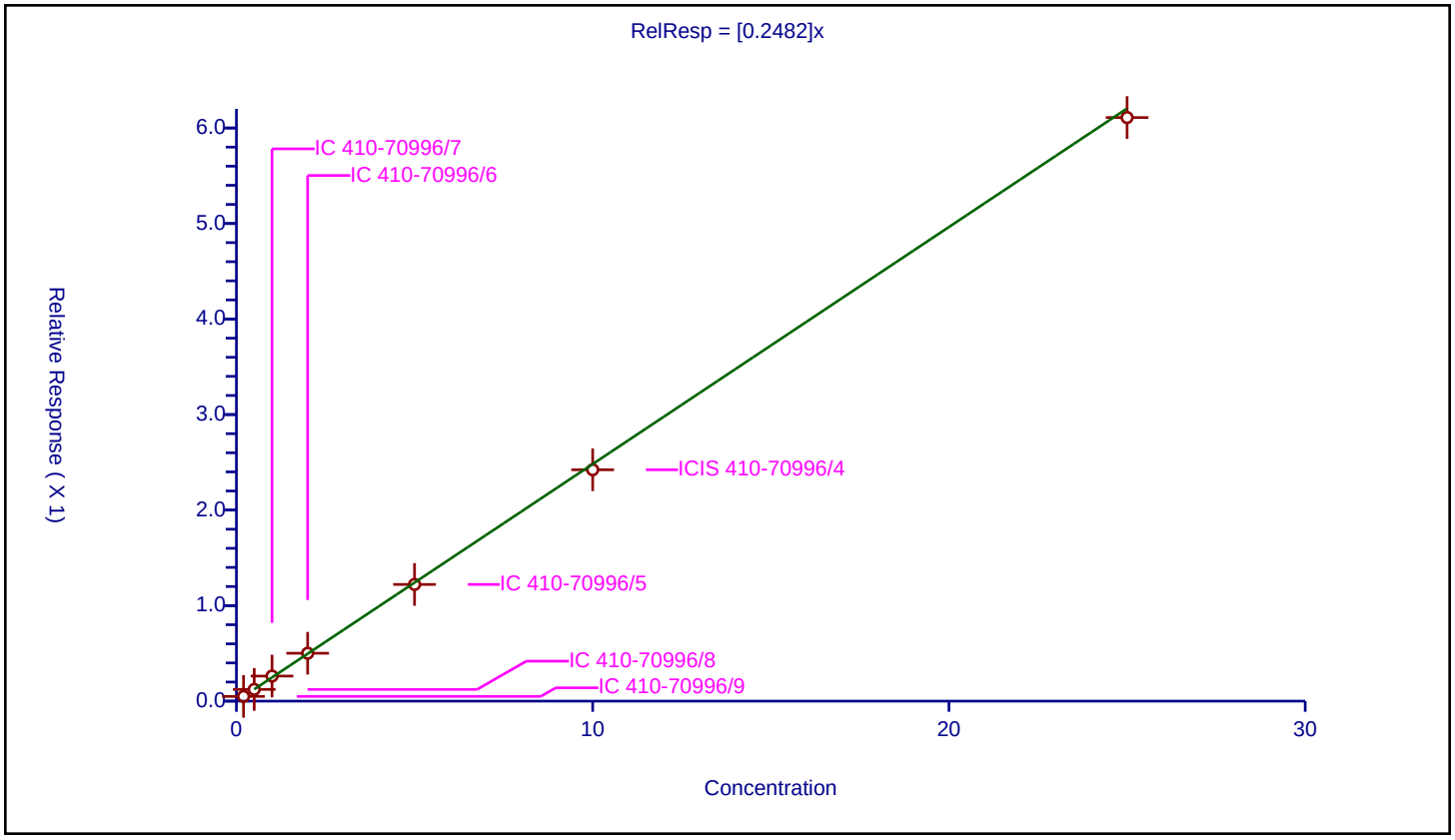
Curve Coefficients

Intercept:	0
Slope:	0.2482

Error Coefficients

Standard Error:	453000
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 410-70996/9	0.2	0.049448	10.0	1578236.0	0.247238	Y
2	IC 410-70996/8	0.5	0.122868	10.0	1589997.0	0.245736	Y
3	IC 410-70996/7	1.0	0.262632	10.0	1600264.0	0.262632	Y
4	IC 410-70996/6	2.0	0.501427	10.0	1604620.0	0.250714	Y
5	IC 410-70996/5	5.0	1.221625	10.0	1611346.0	0.244325	Y
6	ICIS 410-70996/4	10.0	2.422303	10.0	1636269.0	0.24223	Y
7	IC 410-70996/3	25.0	6.109339	10.0	1658425.0	0.244374	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

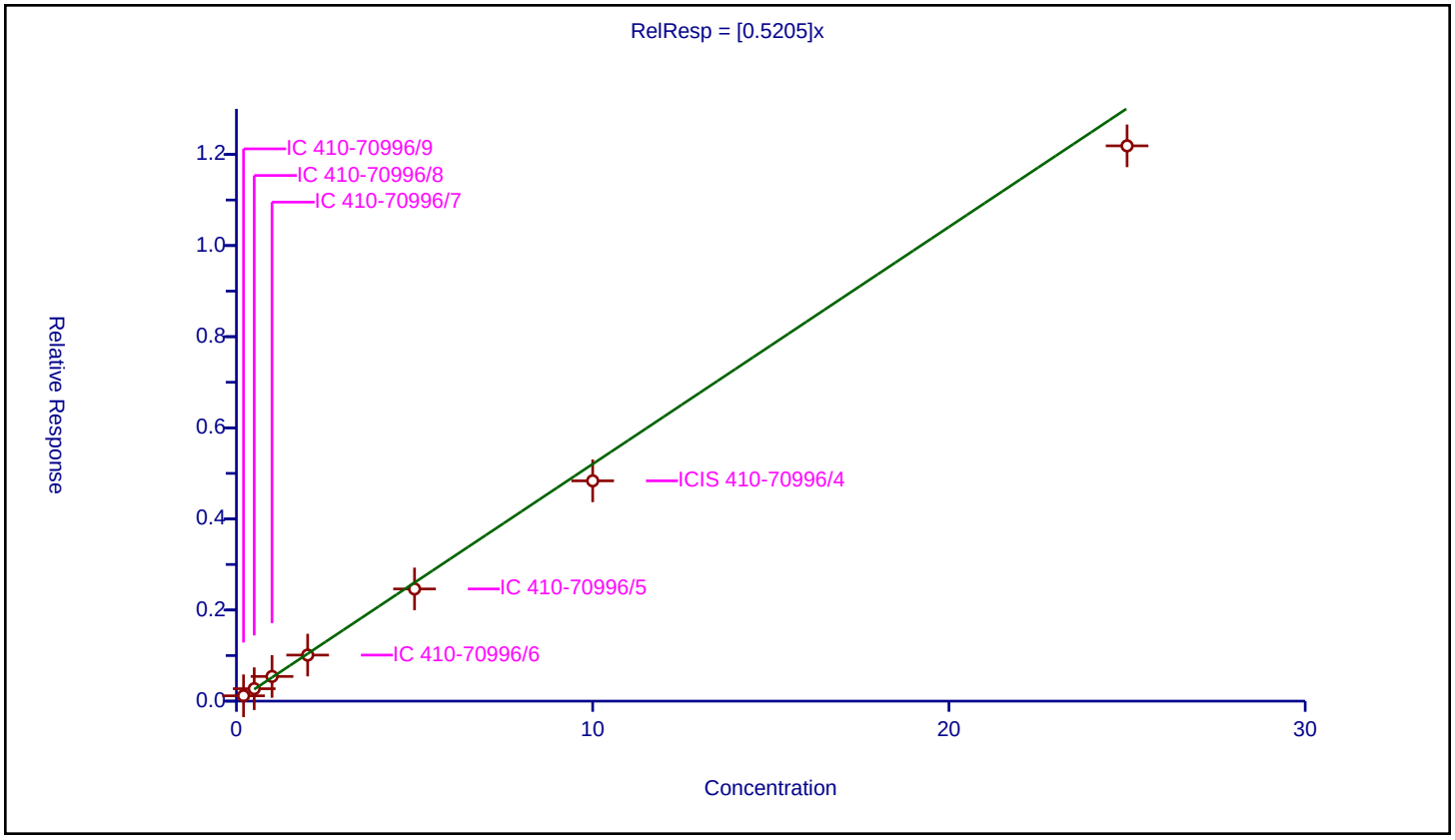
Curve Coefficients

Intercept:	0
Slope:	0.5205

Error Coefficients

Standard Error:	904000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.117124	10.0	1578236.0	0.585622	Y
2	IC 410-70996/8	0.5	0.272963	10.0	1589997.0	0.545926	Y
3	IC 410-70996/7	1.0	0.542467	10.0	1600264.0	0.542467	Y
4	IC 410-70996/6	2.0	1.011149	10.0	1604620.0	0.505575	Y
5	IC 410-70996/5	5.0	2.462569	10.0	1611346.0	0.492514	Y
6	ICIS 410-70996/4	10.0	4.835501	10.0	1636269.0	0.48355	Y
7	IC 410-70996/3	25.0	12.189071	10.0	1658425.0	0.487563	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

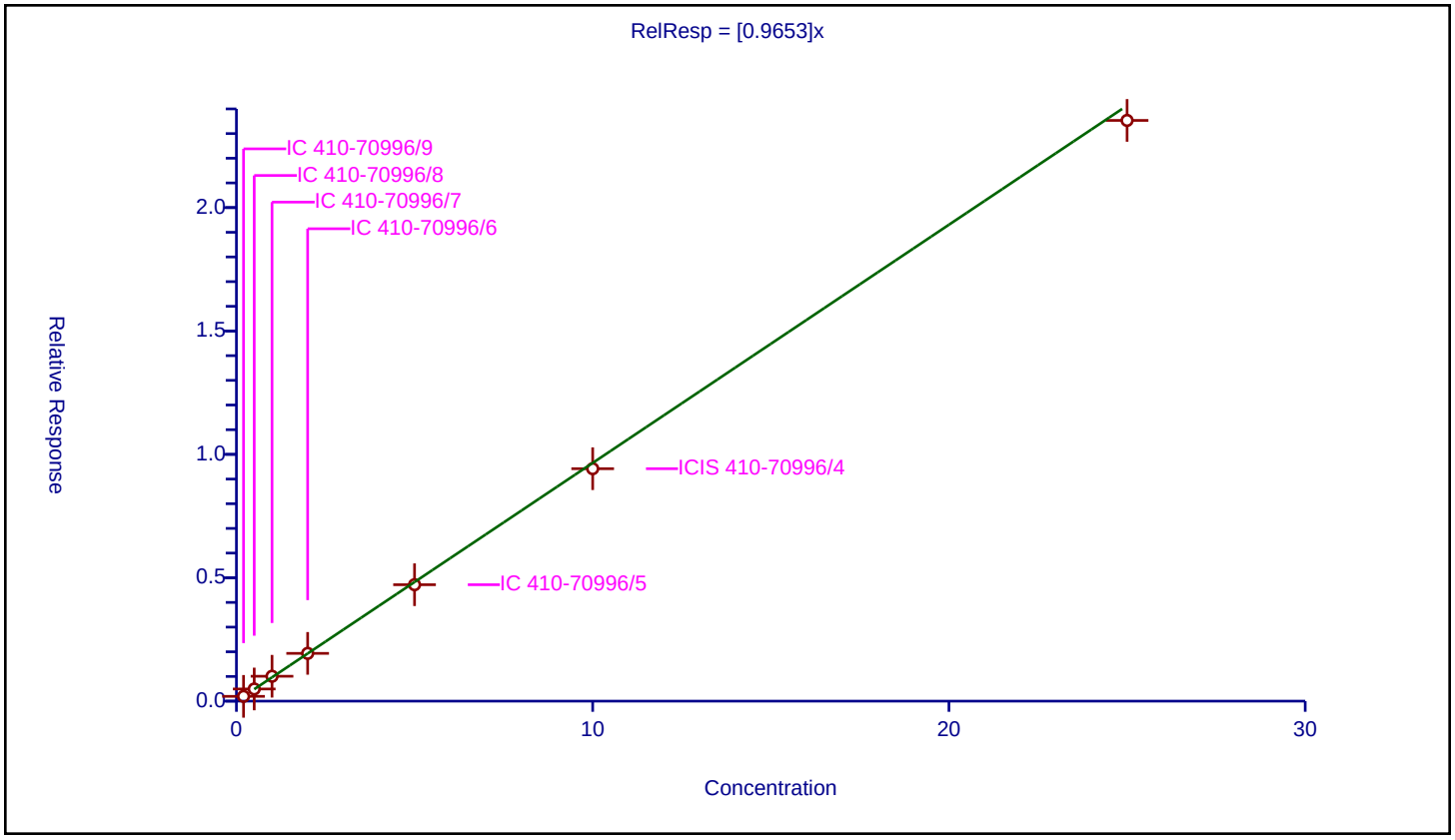
Curve Coefficients

Intercept:	0
Slope:	0.9653

Error Coefficients

Standard Error:	1750000
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 410-70996/9	0.2	0.193875	10.0	1578236.0	0.969373	Y
2	IC 410-70996/8	0.5	0.492353	10.0	1589997.0	0.984706	Y
3	IC 410-70996/7	1.0	1.008402	10.0	1600264.0	1.008402	Y
4	IC 410-70996/6	2.0	1.935443	10.0	1604620.0	0.967721	Y
5	IC 410-70996/5	5.0	4.718093	10.0	1611346.0	0.943619	Y
6	ICIS 410-70996/4	10.0	9.419606	10.0	1636269.0	0.941961	Y
7	IC 410-70996/3	25.0	23.532273	10.0	1658425.0	0.941291	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

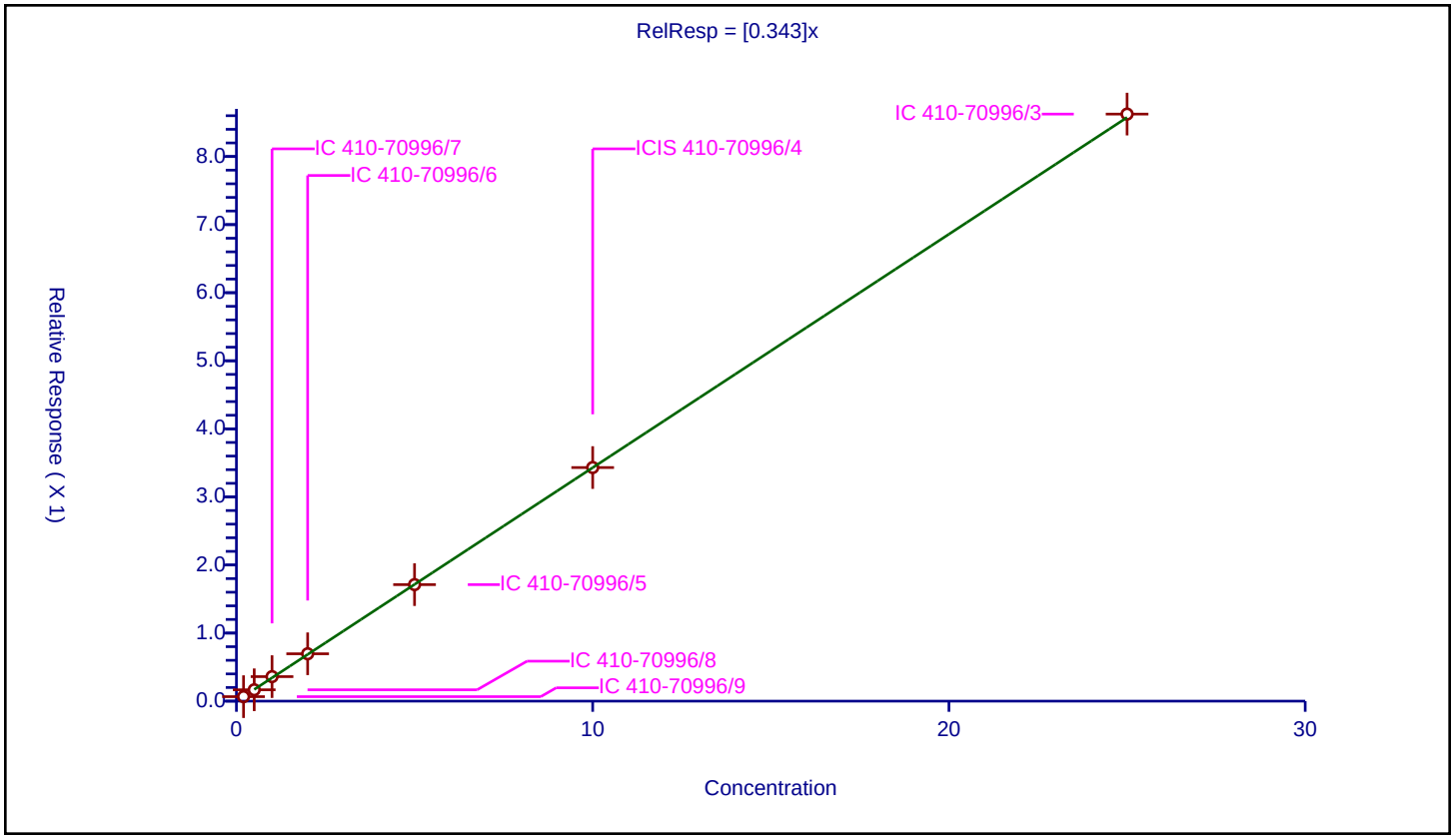
Curve Coefficients

Intercept:	0
Slope:	0.343

Error Coefficients

Standard Error:	639000
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 410-70996/9	0.2	0.065757	10.0	1578236.0	0.328785	Y
2	IC 410-70996/8	0.5	0.166919	10.0	1589997.0	0.333837	Y
3	IC 410-70996/7	1.0	0.359997	10.0	1600264.0	0.359997	Y
4	IC 410-70996/6	2.0	0.695754	10.0	1604620.0	0.347877	Y
5	IC 410-70996/5	5.0	1.711637	10.0	1611346.0	0.342327	Y
6	ICIS 410-70996/4	10.0	3.431398	10.0	1636269.0	0.34314	Y
7	IC 410-70996/3	25.0	8.623797	10.0	1658425.0	0.344952	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

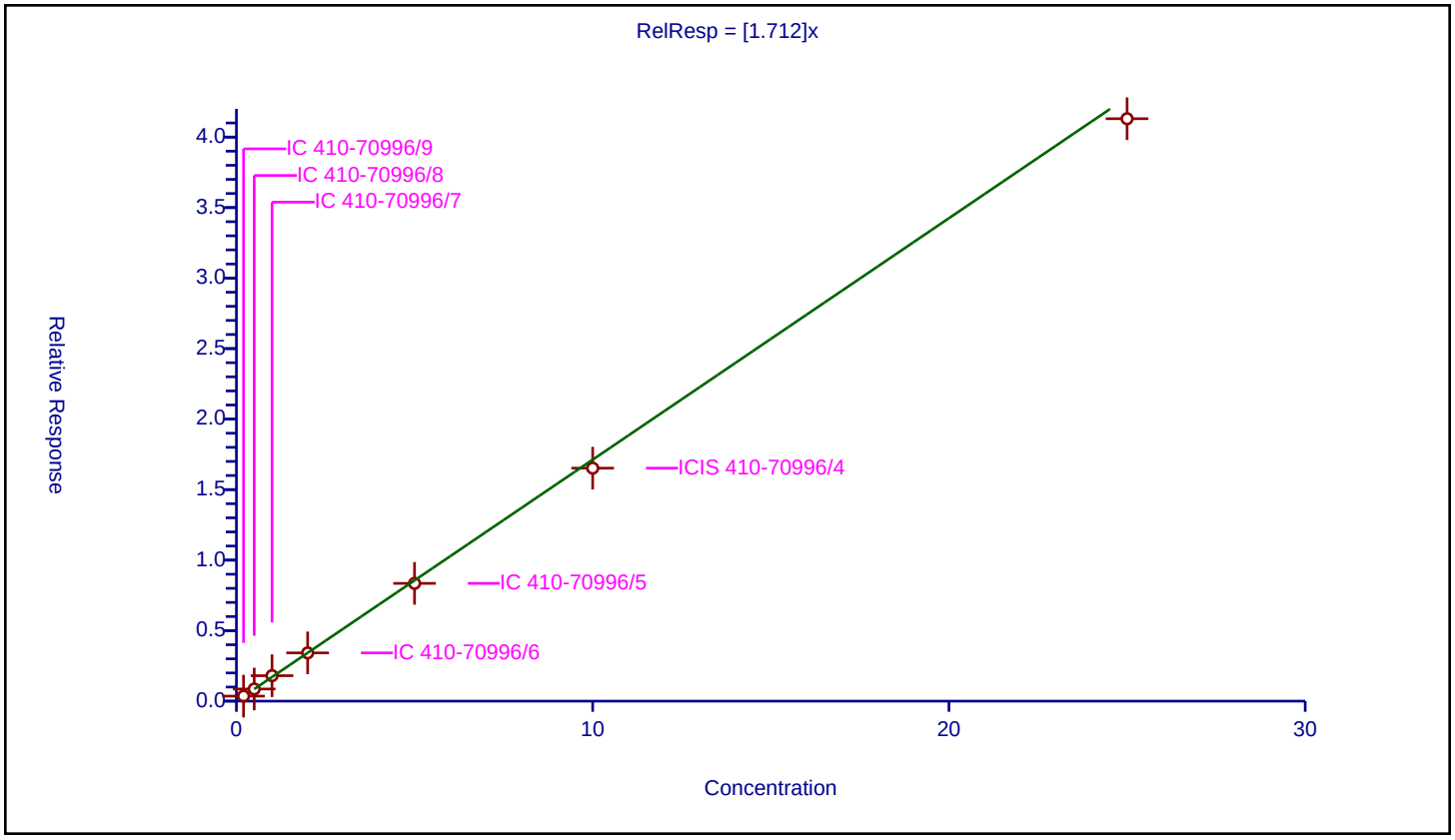
Curve Coefficients

Intercept:	0
Slope:	1.712

Error Coefficients

Standard Error:	3070000
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 410-70996/9	0.2	0.355093	10.0	1578236.0	1.775463	Y
2	IC 410-70996/8	0.5	0.860731	10.0	1589997.0	1.721462	Y
3	IC 410-70996/7	1.0	1.804527	10.0	1600264.0	1.804527	Y
4	IC 410-70996/6	2.0	3.421153	10.0	1604620.0	1.710576	Y
5	IC 410-70996/5	5.0	8.351713	10.0	1611346.0	1.670343	Y
6	ICIS 410-70996/4	10.0	16.521959	10.0	1636269.0	1.652196	Y
7	IC 410-70996/3	25.0	41.303852	10.0	1658425.0	1.652154	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

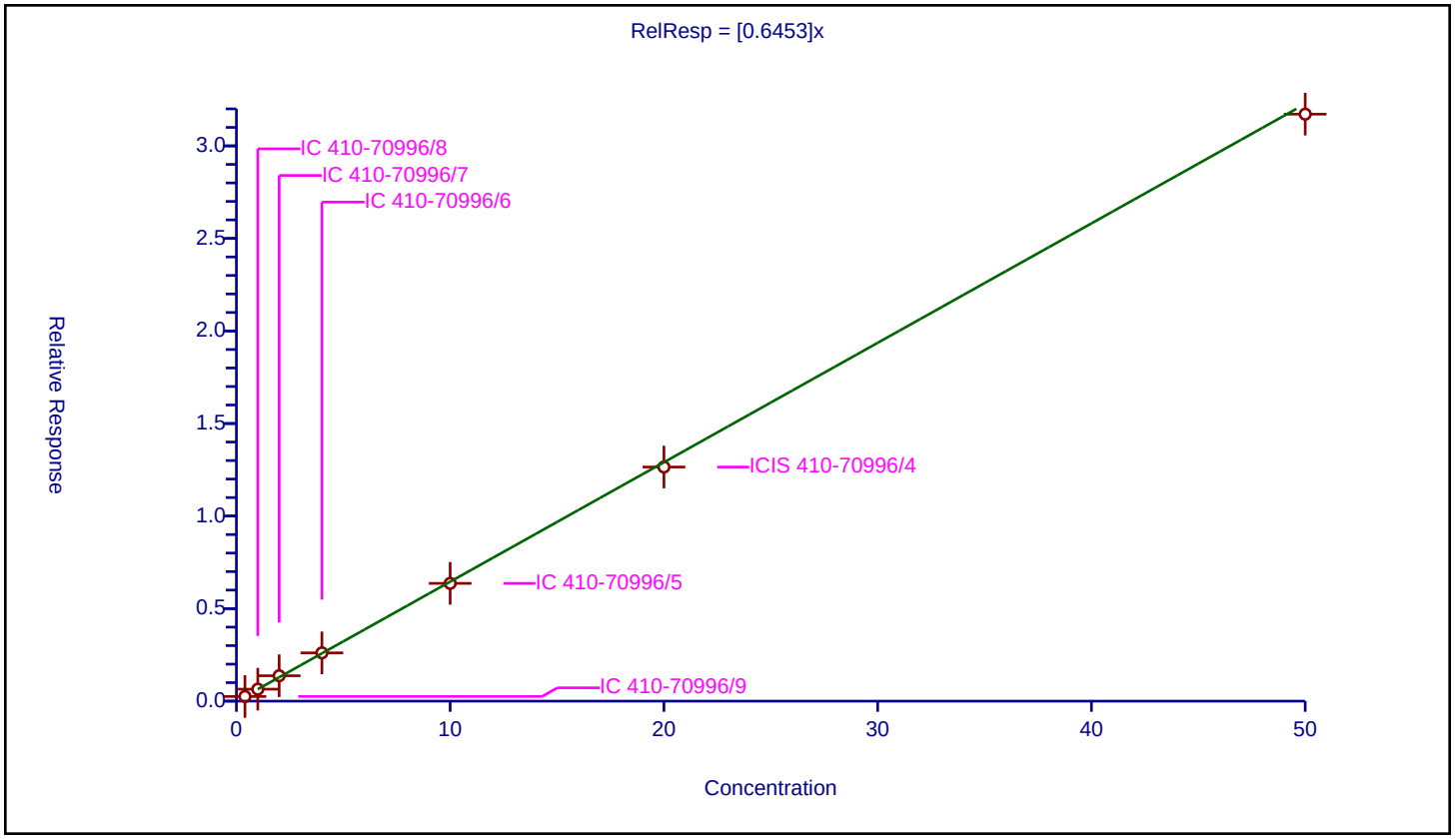
Curve Coefficients

Intercept:	0
Slope:	0.6453

Error Coefficients

Standard Error:	2350000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.4	0.252104	10.0	1578236.0	0.630261	Y
2	IC 410-70996/8	1.0	0.646328	10.0	1589997.0	0.646328	Y
3	IC 410-70996/7	2.0	1.37153	10.0	1600264.0	0.685765	Y
4	IC 410-70996/6	4.0	2.608306	10.0	1604620.0	0.652077	Y
5	IC 410-70996/5	10.0	6.362184	10.0	1611346.0	0.636218	Y
6	ICIS 410-70996/4	20.0	12.649405	10.0	1636269.0	0.63247	Y
7	IC 410-70996/3	50.0	31.715664	10.0	1658425.0	0.634313	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

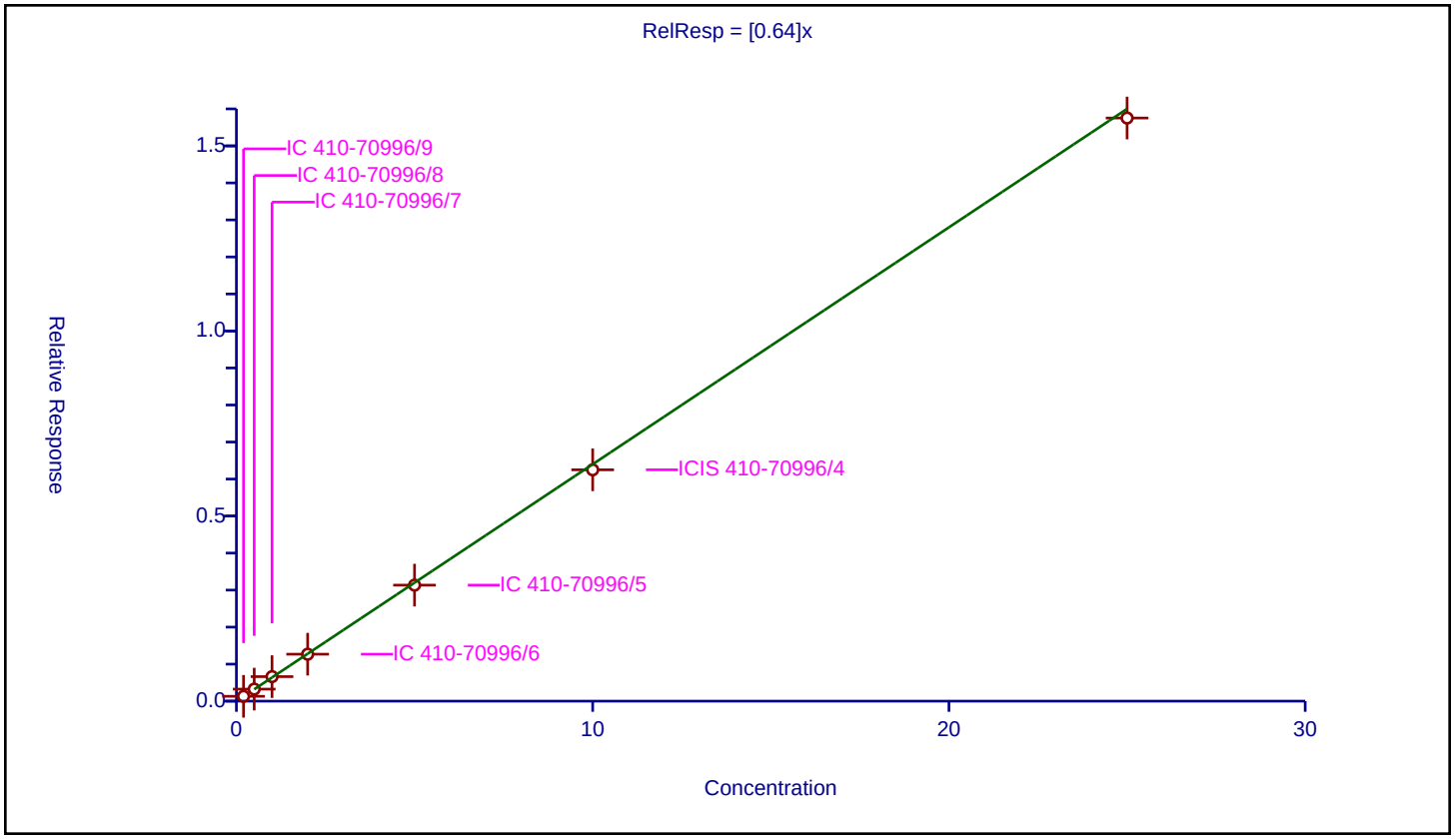
Curve Coefficients

Intercept:	0
Slope:	0.64

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.130481	10.0	1578236.0	0.652406	Y
2	IC 410-70996/8	0.5	0.32485	10.0	1589997.0	0.649699	Y
3	IC 410-70996/7	1.0	0.662047	10.0	1600264.0	0.662047	Y
4	IC 410-70996/6	2.0	1.2684	10.0	1604620.0	0.6342	Y
5	IC 410-70996/5	5.0	3.133833	10.0	1611346.0	0.626767	Y
6	ICIS 410-70996/4	10.0	6.249443	10.0	1636269.0	0.624944	Y
7	IC 410-70996/3	25.0	15.753055	10.0	1658425.0	0.630122	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

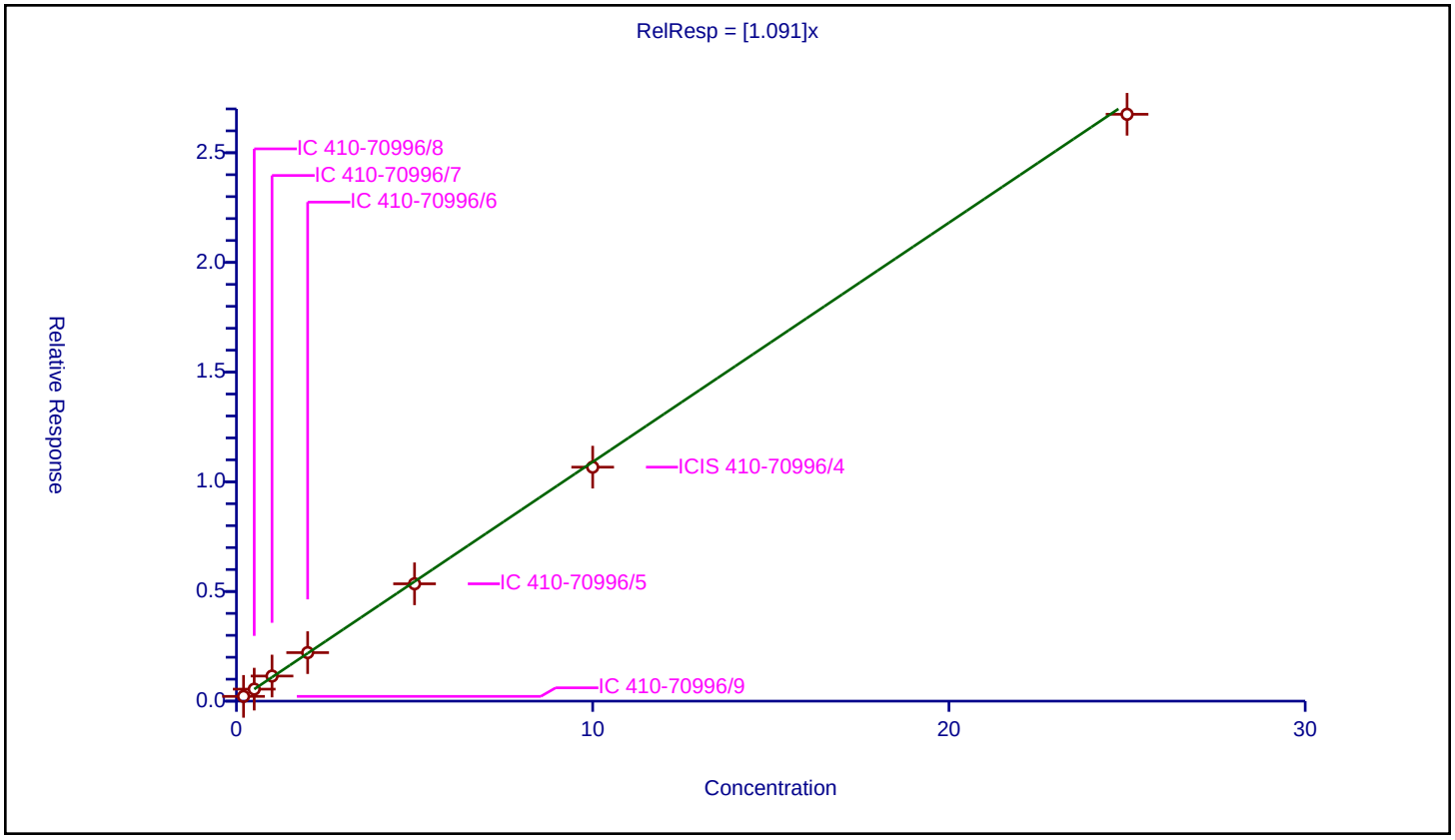
Curve Coefficients

Intercept:	0
Slope:	1.091

Error Coefficients

Standard Error:	1990000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.216653	10.0	1578236.0	1.083266	Y
2	IC 410-70996/8	0.5	0.547032	10.0	1589997.0	1.094065	Y
3	IC 410-70996/7	1.0	1.14413	10.0	1600264.0	1.14413	Y
4	IC 410-70996/6	2.0	2.211701	10.0	1604620.0	1.105851	Y
5	IC 410-70996/5	5.0	5.349267	10.0	1611346.0	1.069853	Y
6	ICIS 410-70996/4	10.0	10.66695	10.0	1636269.0	1.066695	Y
7	IC 410-70996/3	25.0	26.754583	10.0	1658425.0	1.070183	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

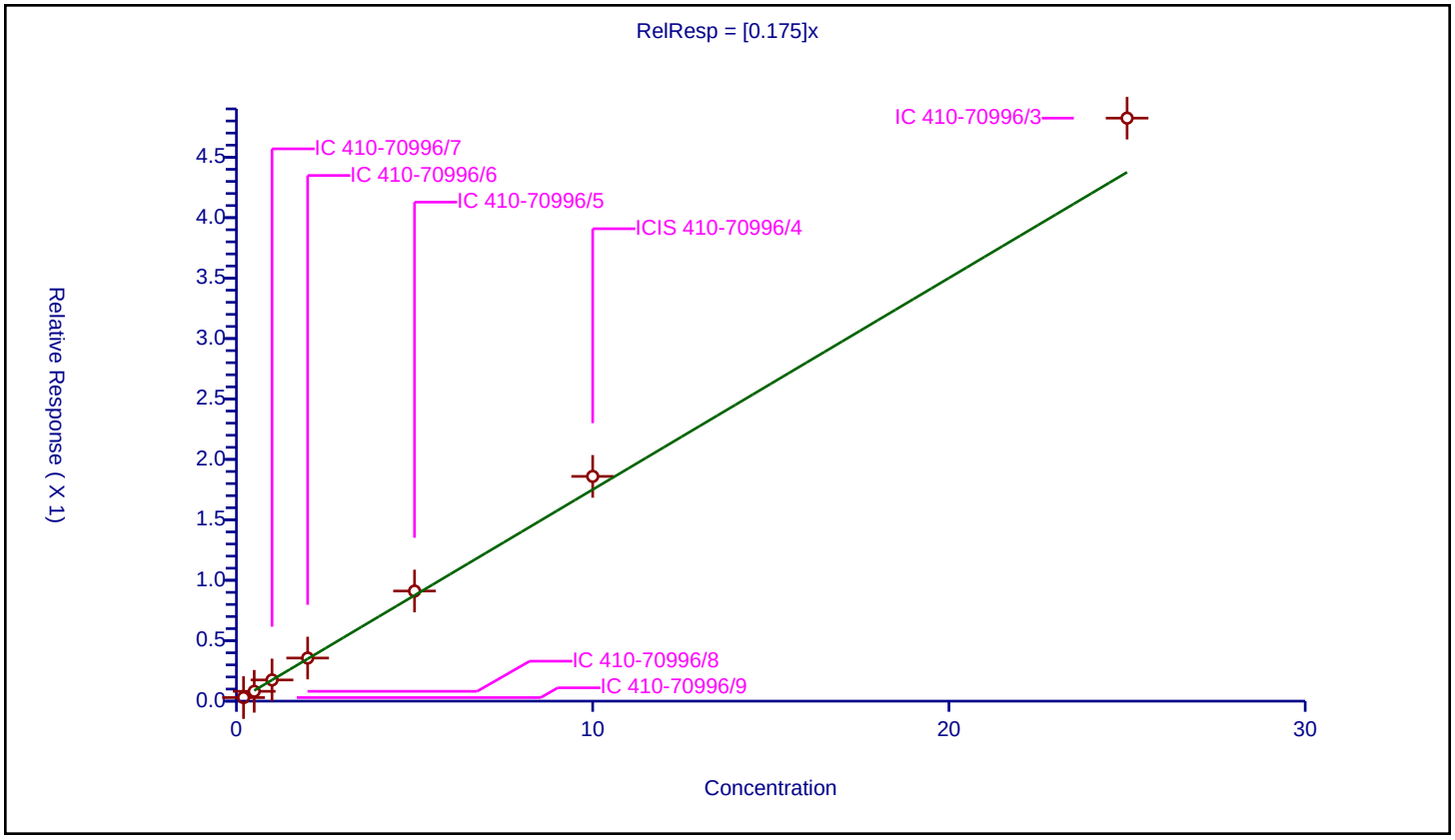
Curve Coefficients

Intercept:	0
Slope:	0.175

Error Coefficients

Standard Error:	356000
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 410-70996/9	0.2	0.029577	10.0	1578236.0	0.147887	Y
2	IC 410-70996/8	0.5	0.081327	10.0	1589997.0	0.162654	Y
3	IC 410-70996/7	1.0	0.175259	10.0	1600264.0	0.175259	Y
4	IC 410-70996/6	2.0	0.356751	10.0	1604620.0	0.178376	Y
5	IC 410-70996/5	5.0	0.911058	10.0	1611346.0	0.182212	Y
6	ICIS 410-70996/4	10.0	1.859401	10.0	1636269.0	0.18594	Y
7	IC 410-70996/3	25.0	4.823601	10.0	1658425.0	0.192944	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

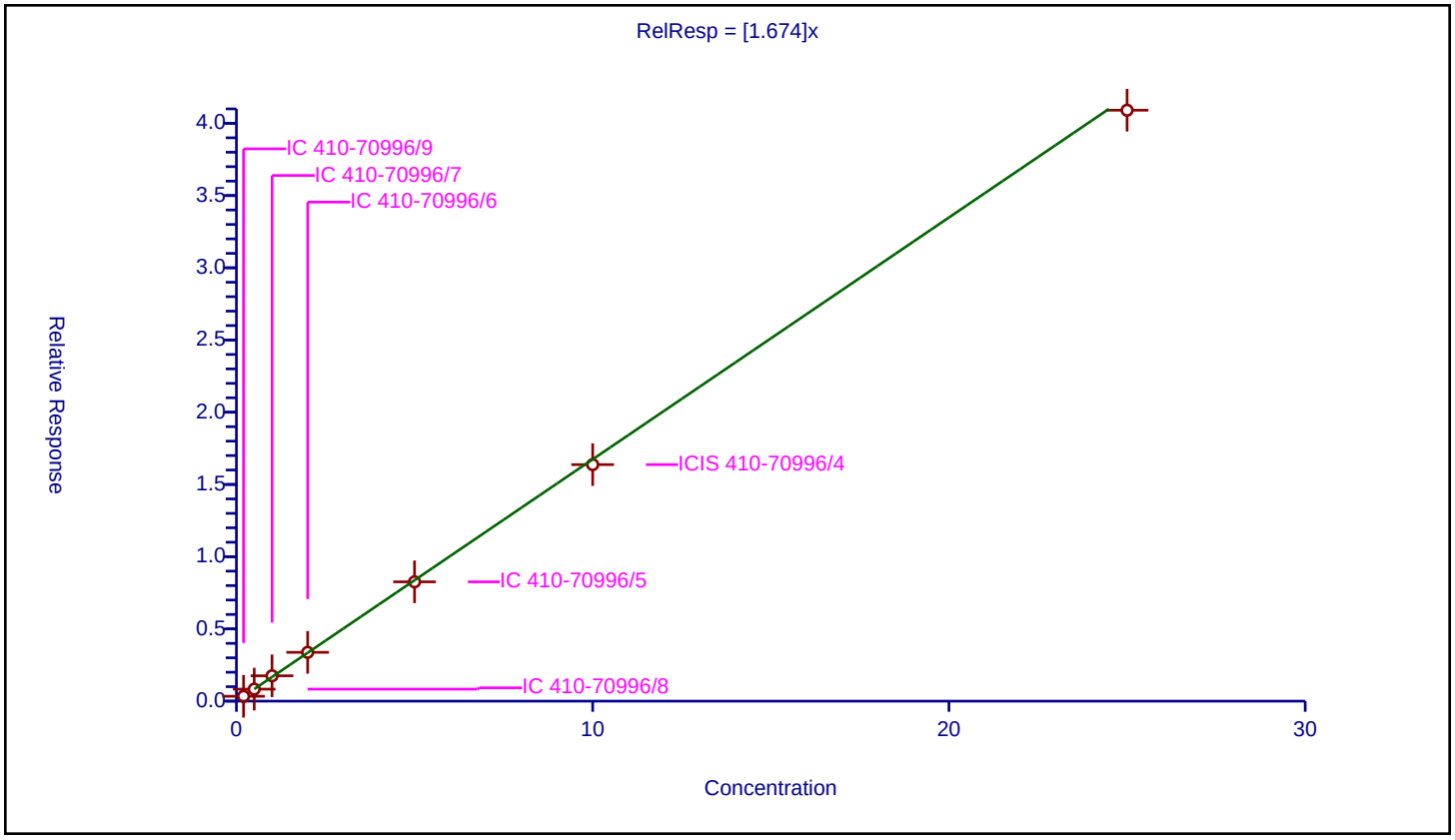
Curve Coefficients

Intercept:	0
Slope:	1.674

Error Coefficients

Standard Error:	3040000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.337149	10.0	1578236.0	1.685743	Y
2	IC 410-70996/8	0.5	0.831385	10.0	1589997.0	1.66277	Y
3	IC 410-70996/7	1.0	1.754204	10.0	1600264.0	1.754204	Y
4	IC 410-70996/6	2.0	3.379292	10.0	1604620.0	1.689646	Y
5	IC 410-70996/5	5.0	8.260181	10.0	1611346.0	1.652036	Y
6	ICIS 410-70996/4	10.0	16.373732	10.0	1636269.0	1.637373	Y
7	IC 410-70996/3	25.0	40.90806	10.0	1658425.0	1.636322	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

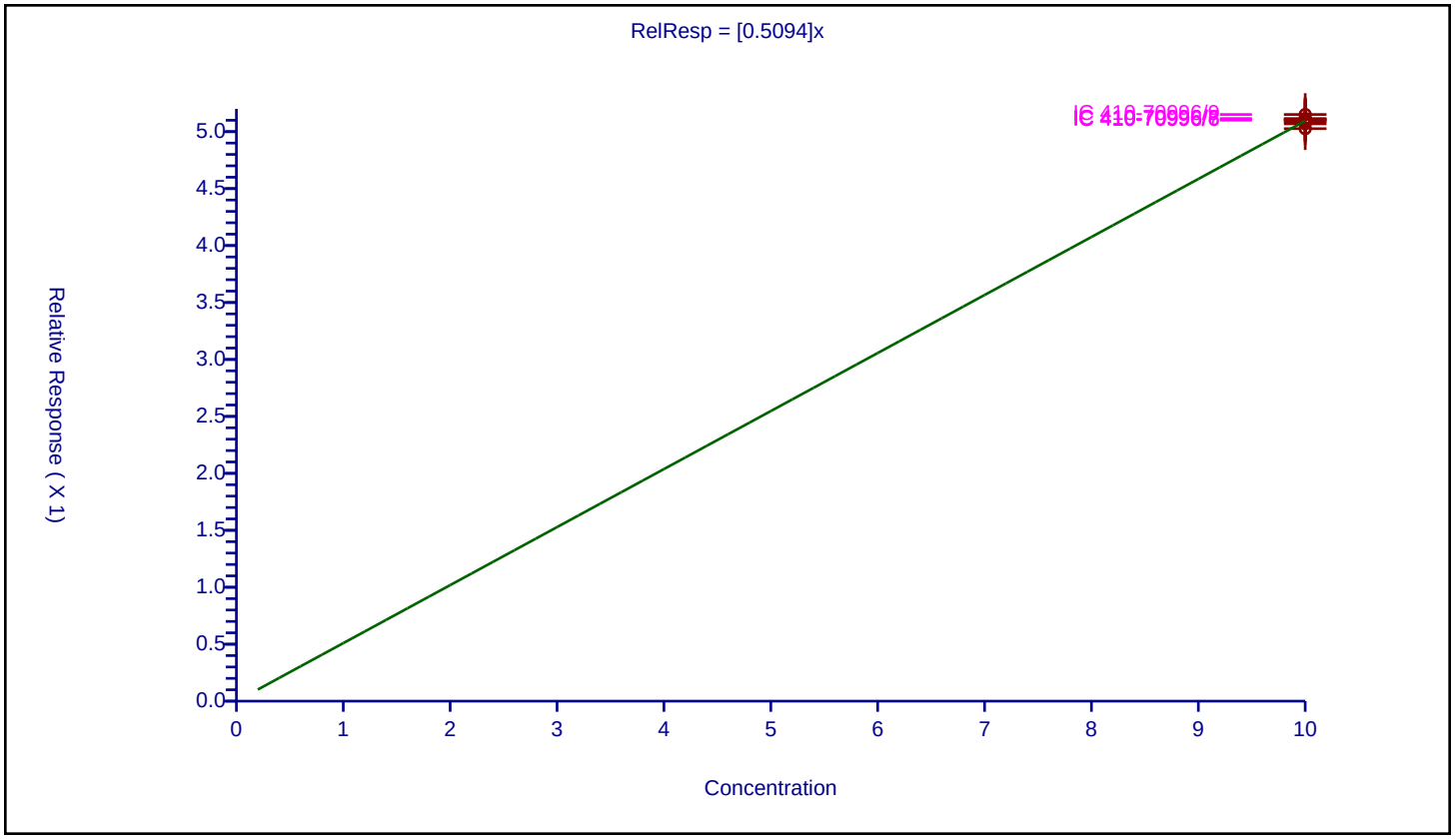
Curve Coefficients

Intercept:	0
Slope:	0.5094

Error Coefficients

Standard Error:	886000
Relative Standard Error:	0.8
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/3	10.0	5.026317	10.0	1658425.0	0.502632	Y
2	ICIS 410-70996/4	10.0	5.068586	10.0	1636269.0	0.506859	Y
3	IC 410-70996/5	10.0	5.089044	10.0	1611346.0	0.508904	Y
4	IC 410-70996/6	10.0	5.100859	10.0	1604620.0	0.510086	Y
5	IC 410-70996/7	10.0	5.115162	10.0	1600264.0	0.511516	Y
6	IC 410-70996/8	10.0	5.107494	10.0	1589997.0	0.510749	Y
7	IC 410-70996/9	10.0	5.150541	10.0	1578236.0	0.515054	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

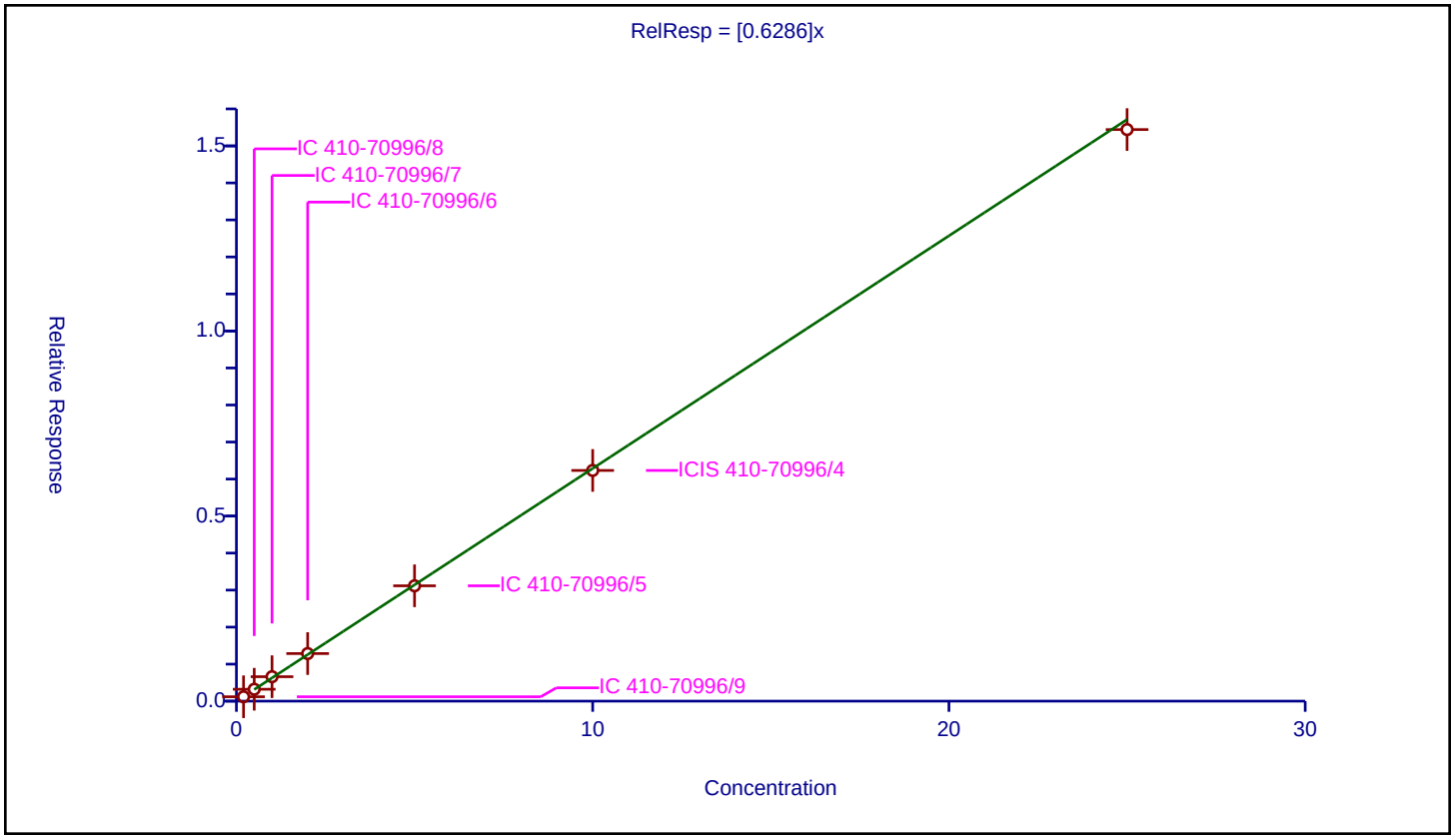
Curve Coefficients

Intercept:	0
Slope:	0.6286

Error Coefficients

Standard Error:	621000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.118032	10.0	857732.0	0.590161	Y
2	IC 410-70996/8	0.5	0.321383	10.0	861870.0	0.642765	Y
3	IC 410-70996/7	1.0	0.660211	10.0	860391.0	0.660211	Y
4	IC 410-70996/6	2.0	1.28567	10.0	869181.0	0.642835	Y
5	IC 410-70996/5	5.0	3.115913	10.0	878834.0	0.623183	Y
6	ICIS 410-70996/4	10.0	6.232026	10.0	888382.0	0.623203	Y
7	IC 410-70996/3	25.0	15.441781	10.0	896780.0	0.617671	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

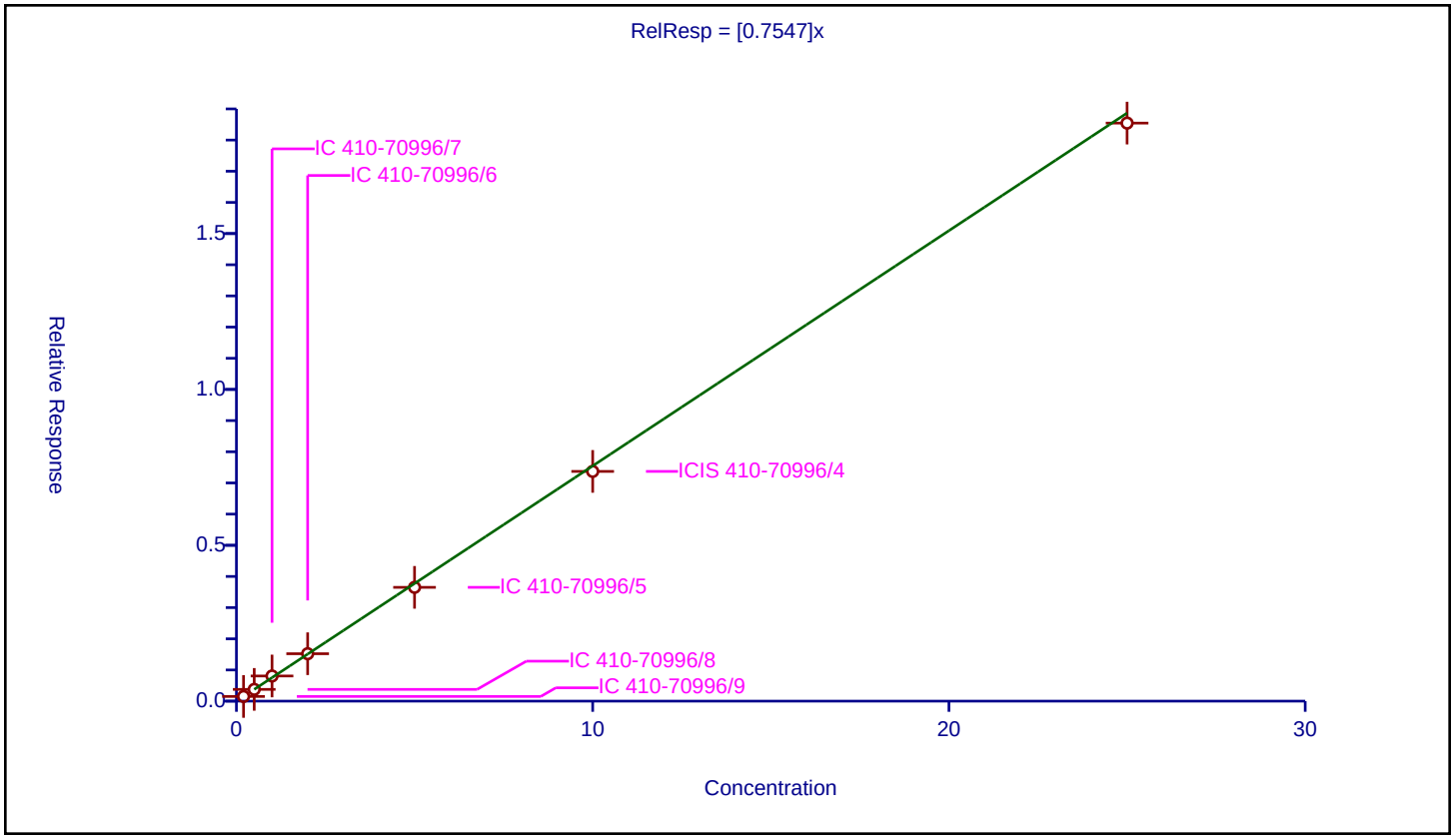
Curve Coefficients

Intercept:	0
Slope:	0.7547

Error Coefficients

Standard Error:	744000
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 410-70996/9	0.2	0.150327	10.0	857732.0	0.751633	Y
2	IC 410-70996/8	0.5	0.376878	10.0	861870.0	0.753756	Y
3	IC 410-70996/7	1.0	0.807424	10.0	860391.0	0.807424	Y
4	IC 410-70996/6	2.0	1.521697	10.0	869181.0	0.760848	Y
5	IC 410-70996/5	5.0	3.650963	10.0	878834.0	0.730193	Y
6	ICIS 410-70996/4	10.0	7.370253	10.0	888382.0	0.737025	Y
7	IC 410-70996/3	25.0	18.544994	10.0	896780.0	0.7418	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

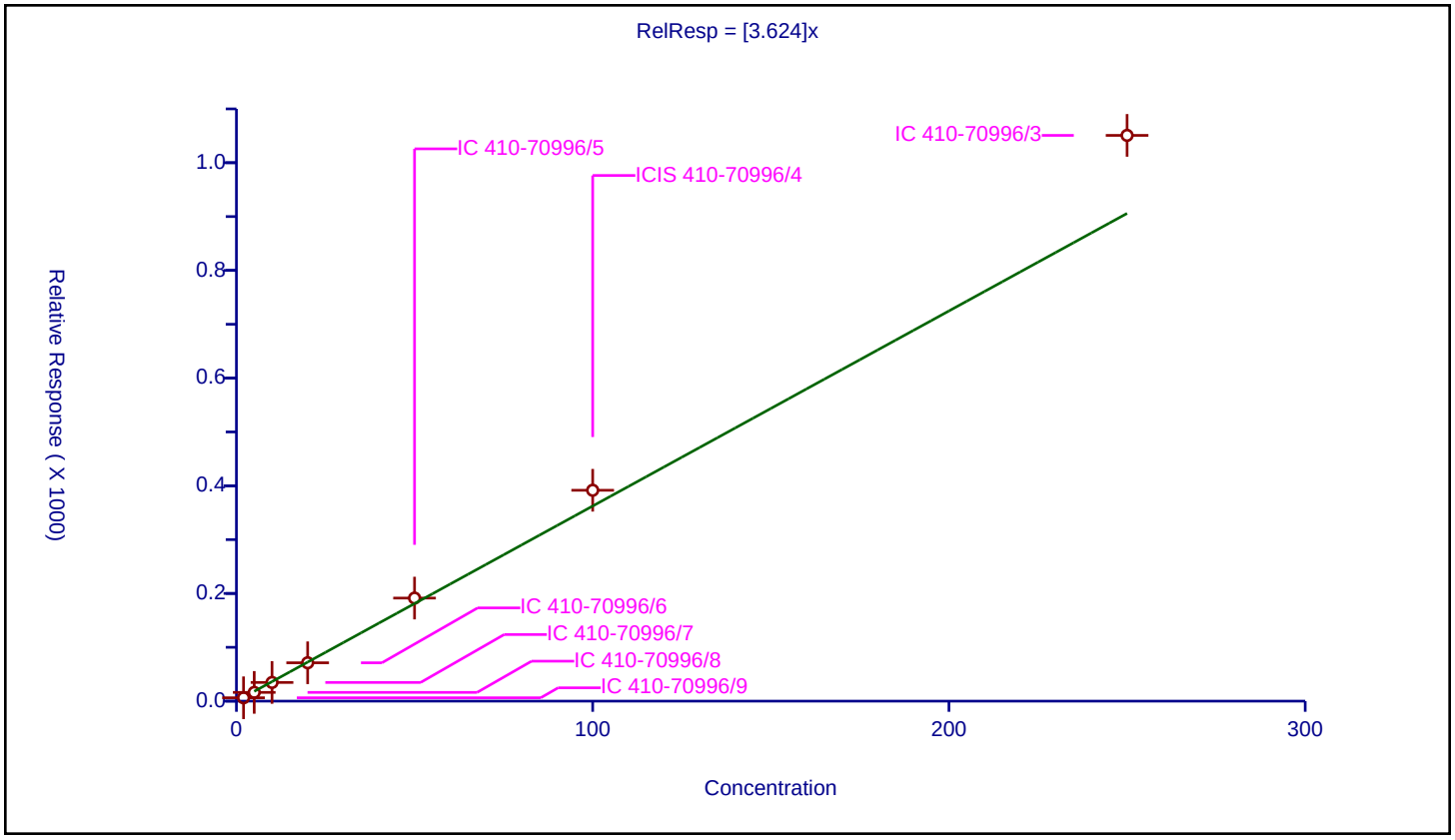
Curve Coefficients

Intercept:	0
Slope:	3.624

Error Coefficients

Standard Error:	1670000
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 410-70996/9	2.0	6.275612	50.0	184731.0	3.137806	Y
2	IC 410-70996/8	5.0	16.245136	50.0	195834.0	3.249027	Y
3	IC 410-70996/7	10.0	34.681371	50.0	201206.0	3.468137	Y
4	IC 410-70996/6	20.0	71.23699	50.0	195329.0	3.561849	Y
5	IC 410-70996/5	50.0	191.416907	50.0	183343.0	3.828338	Y
6	ICIS 410-70996/4	100.0	391.675712	50.0	186094.0	3.916757	Y
7	IC 410-70996/3	250.0	1050.803645	50.0	177877.0	4.203215	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

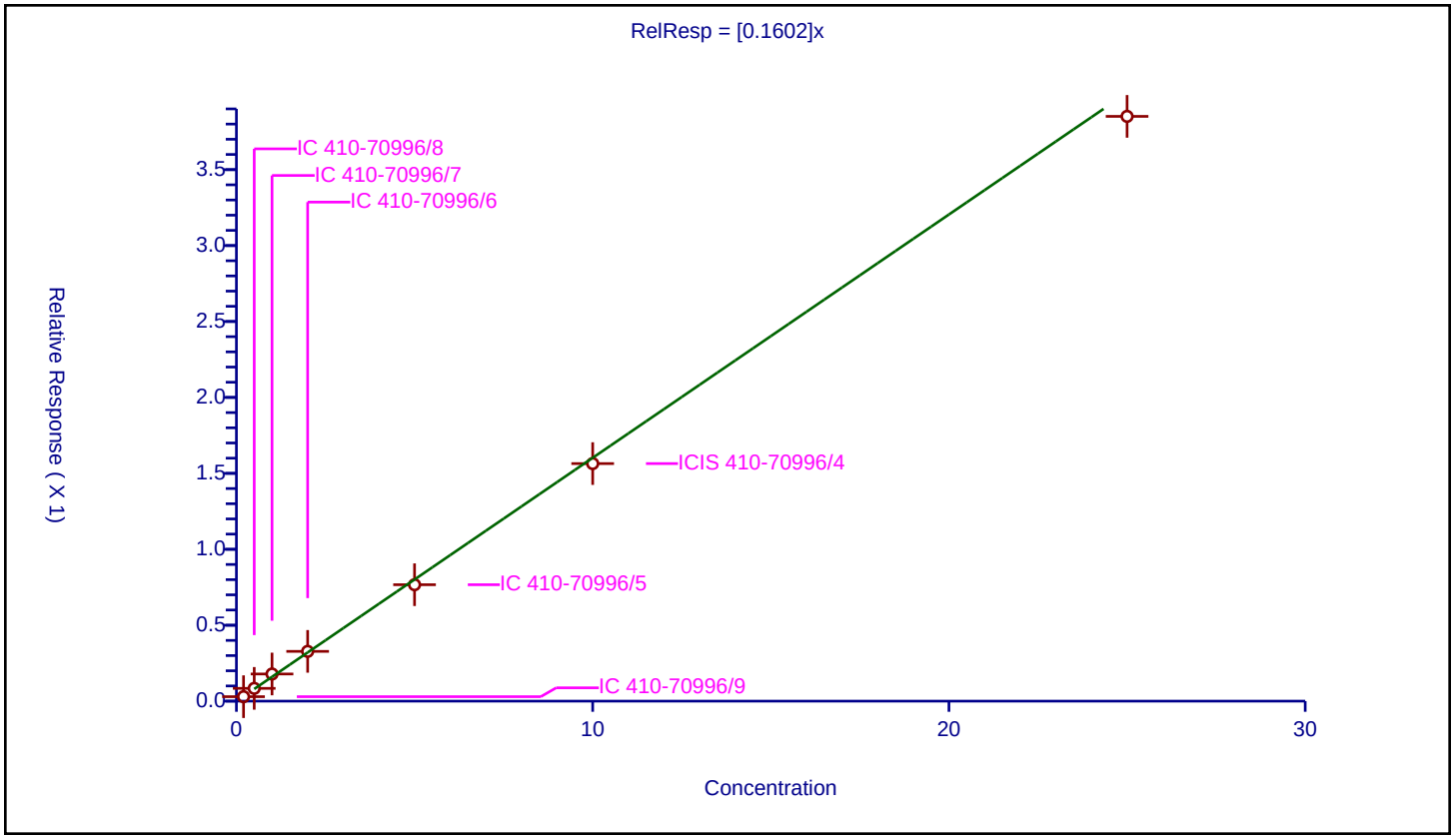
Curve Coefficients

Intercept:	0
Slope:	0.1602

Error Coefficients

Standard Error:	155000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.029368	10.0	857732.0	0.146841	Y
2	IC 410-70996/8	0.5	0.084166	10.0	861870.0	0.168332	Y
3	IC 410-70996/7	1.0	0.178721	10.0	860391.0	0.178721	Y
4	IC 410-70996/6	2.0	0.327791	10.0	869181.0	0.163896	Y
5	IC 410-70996/5	5.0	0.766789	10.0	878834.0	0.153358	Y
6	ICIS 410-70996/4	10.0	1.564417	10.0	888382.0	0.156442	Y
7	IC 410-70996/3	25.0	3.850643	10.0	896780.0	0.154026	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

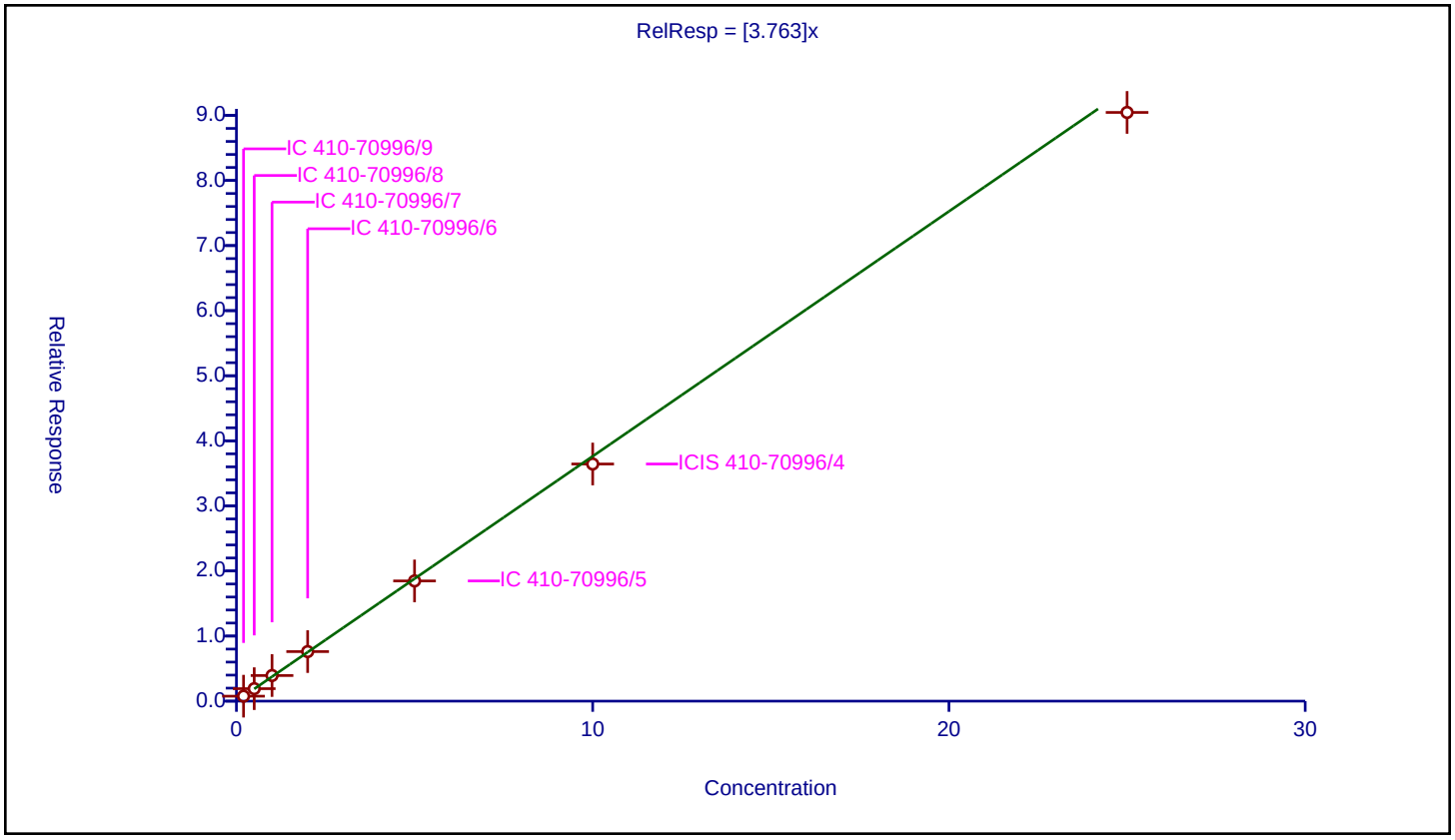
Curve Coefficients

Intercept:	0
Slope:	3.763

Error Coefficients

Standard Error:	3640000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.761695	10.0	857732.0	3.808474	Y
2	IC 410-70996/8	0.5	1.915718	10.0	861870.0	3.831436	Y
3	IC 410-70996/7	1.0	3.934223	10.0	860391.0	3.934223	Y
4	IC 410-70996/6	2.0	7.615721	10.0	869181.0	3.807861	Y
5	IC 410-70996/5	5.0	18.471304	10.0	878834.0	3.694261	Y
6	ICIS 410-70996/4	10.0	36.436781	10.0	888382.0	3.643678	Y
7	IC 410-70996/3	25.0	90.454905	10.0	896780.0	3.618196	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

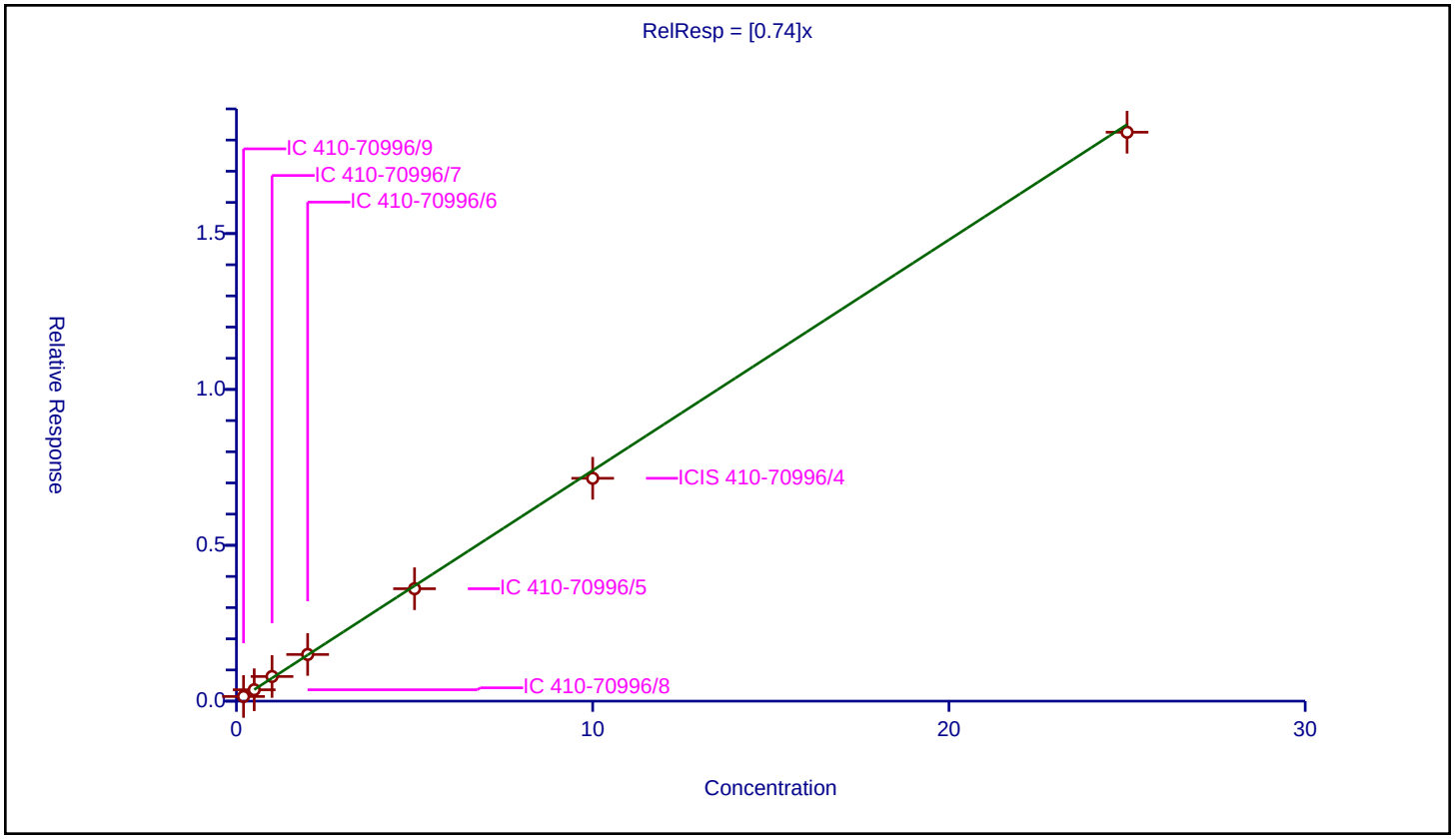
Curve Coefficients

Intercept:	0
Slope:	0.74

Error Coefficients

Standard Error:	731000
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 410-70996/9	0.2	0.148741	10.0	857732.0	0.743705	Y
2	IC 410-70996/8	0.5	0.36531	10.0	861870.0	0.730621	Y
3	IC 410-70996/7	1.0	0.790606	10.0	860391.0	0.790606	Y
4	IC 410-70996/6	2.0	1.49726	10.0	869181.0	0.74863	Y
5	IC 410-70996/5	5.0	3.606597	10.0	878834.0	0.721319	Y
6	ICIS 410-70996/4	10.0	7.149661	10.0	888382.0	0.714966	Y
7	IC 410-70996/3	25.0	18.251656	10.0	896780.0	0.730066	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

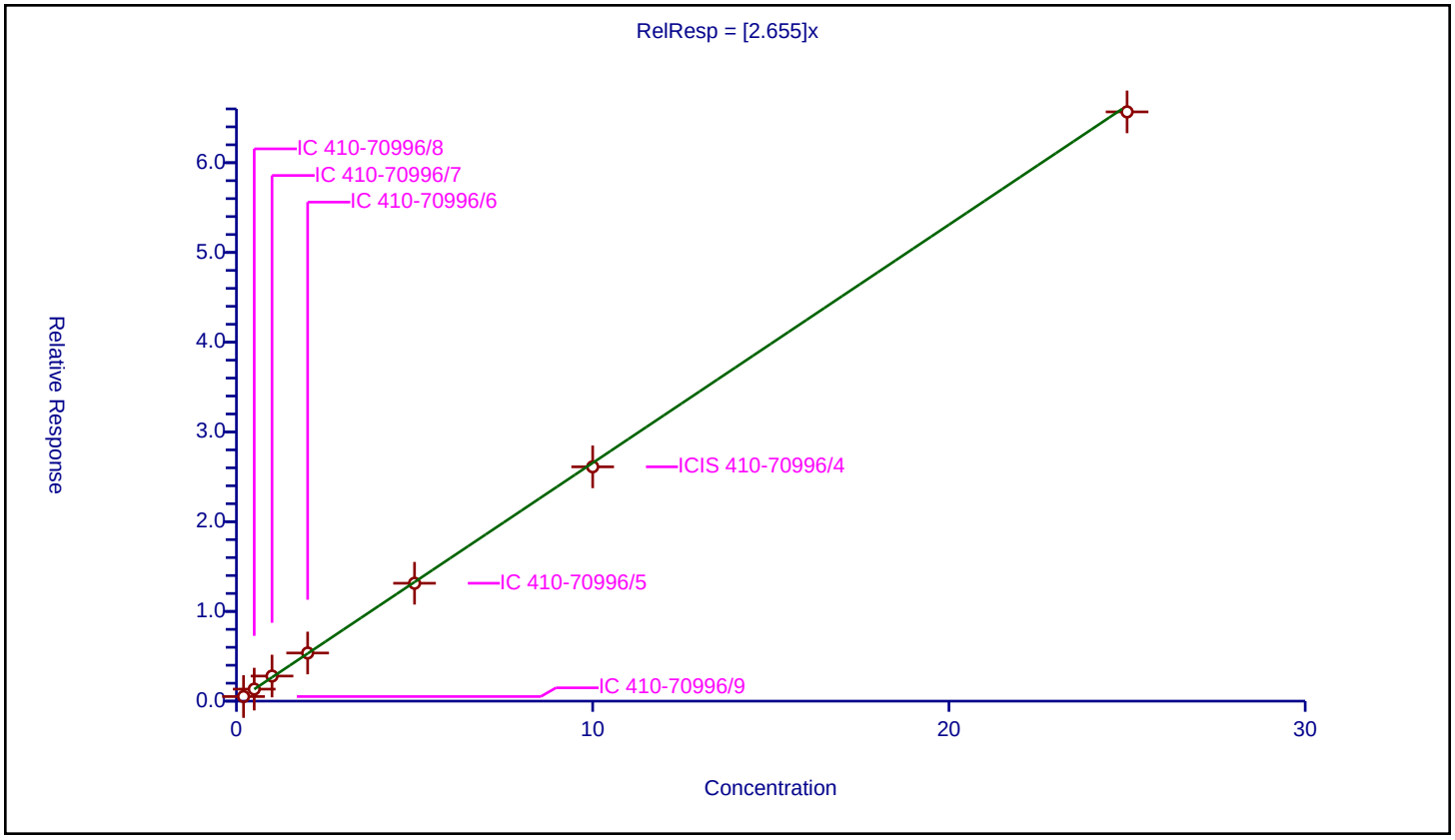
Curve Coefficients

Intercept:	0
Slope:	2.655

Error Coefficients

Standard Error:	2640000
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 410-70996/9	0.2	0.511582	10.0	857732.0	2.557909	Y
2	IC 410-70996/8	0.5	1.338624	10.0	861870.0	2.677248	Y
3	IC 410-70996/7	1.0	2.798588	10.0	860391.0	2.798588	Y
4	IC 410-70996/6	2.0	5.366155	10.0	869181.0	2.683078	Y
5	IC 410-70996/5	5.0	13.137123	10.0	878834.0	2.627425	Y
6	ICIS 410-70996/4	10.0	26.111009	10.0	888382.0	2.611101	Y
7	IC 410-70996/3	25.0	65.668302	10.0	896780.0	2.626732	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

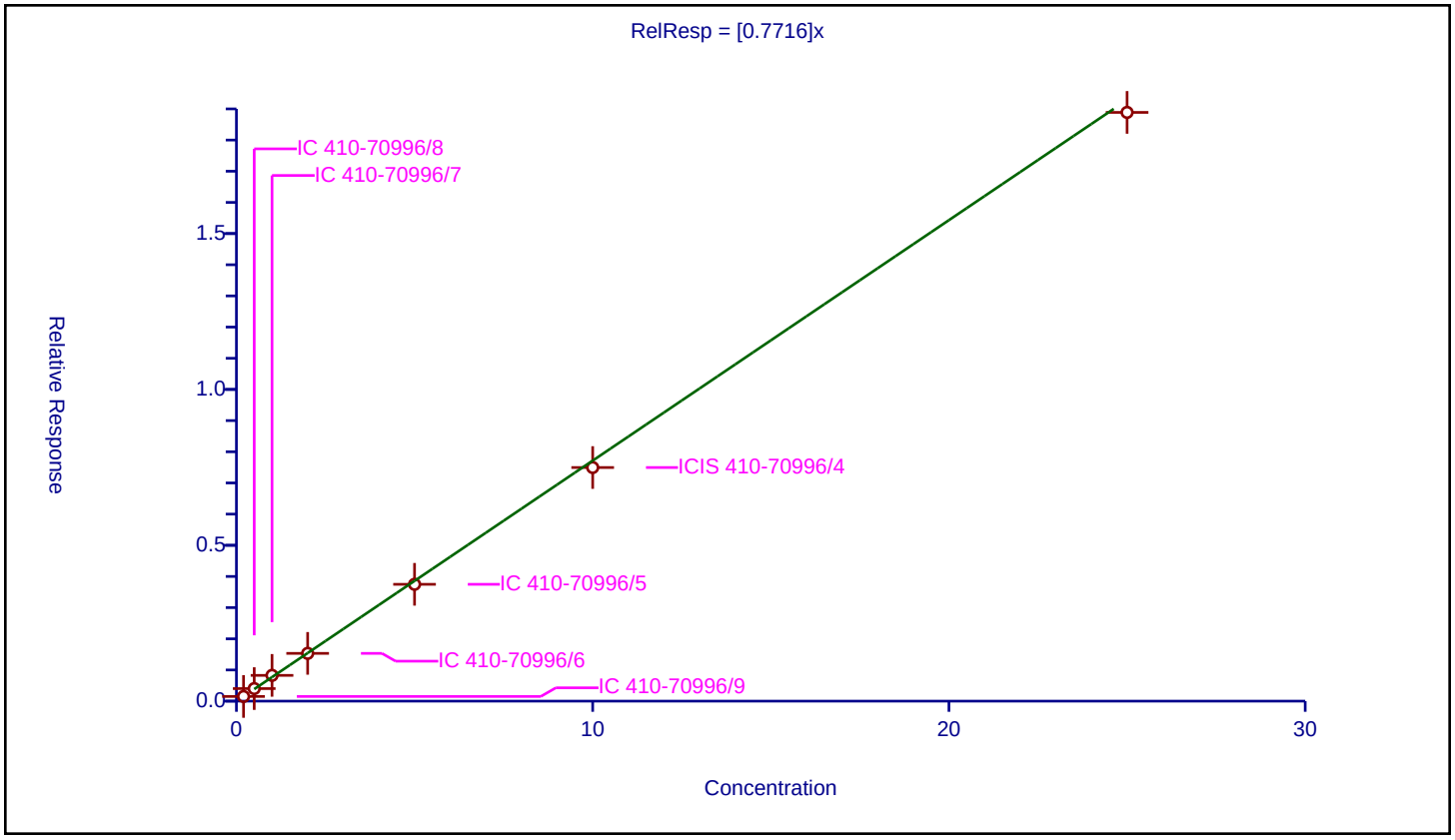
Curve Coefficients

Intercept:	0
Slope:	0.7716

Error Coefficients

Standard Error:	758000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.149674	10.0	857732.0	0.748369	Y
2	IC 410-70996/8	0.5	0.402764	10.0	861870.0	0.805528	Y
3	IC 410-70996/7	1.0	0.826334	10.0	860391.0	0.826334	Y
4	IC 410-70996/6	2.0	1.532109	10.0	869181.0	0.766054	Y
5	IC 410-70996/5	5.0	3.748194	10.0	878834.0	0.749639	Y
6	ICIS 410-70996/4	10.0	7.494997	10.0	888382.0	0.7495	Y
7	IC 410-70996/3	25.0	18.88733	10.0	896780.0	0.755493	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

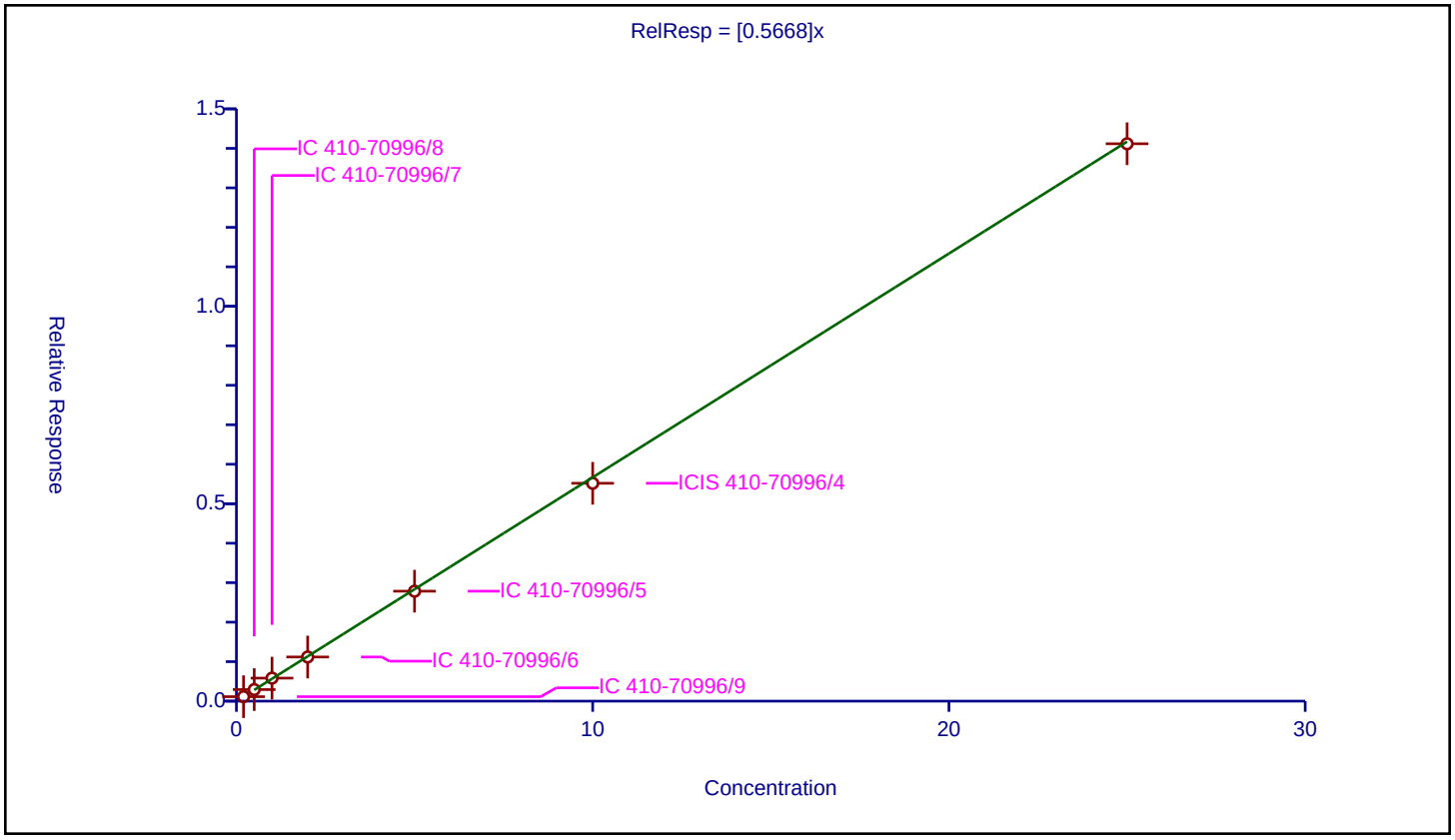
Curve Coefficients

Intercept:	0
Slope:	0.5668

Error Coefficients

Standard Error:	565000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.113194	10.0	857732.0	0.565969	Y
2	IC 410-70996/8	0.5	0.292979	10.0	861870.0	0.585958	Y
3	IC 410-70996/7	1.0	0.58327	10.0	860391.0	0.58327	Y
4	IC 410-70996/6	2.0	1.118283	10.0	869181.0	0.559141	Y
5	IC 410-70996/5	5.0	2.784872	10.0	878834.0	0.556974	Y
6	ICIS 410-70996/4	10.0	5.518437	10.0	888382.0	0.551844	Y
7	IC 410-70996/3	25.0	14.116796	10.0	896780.0	0.564672	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

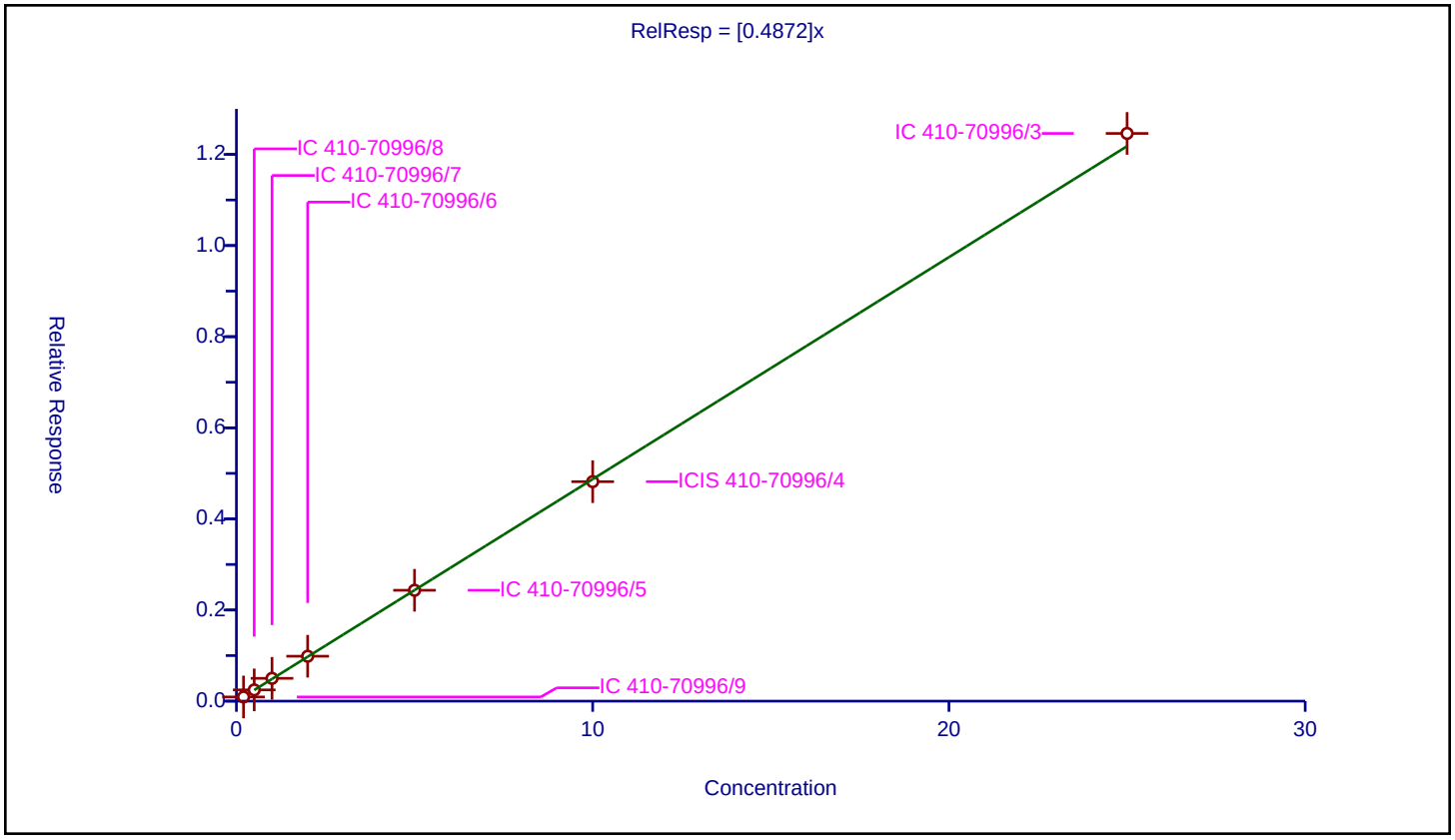
Curve Coefficients

Intercept:	0
Slope:	0.4872

Error Coefficients

Standard Error:	498000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.091357	10.0	857732.0	0.456786	Y
2	IC 410-70996/8	0.5	0.246743	10.0	861870.0	0.493485	Y
3	IC 410-70996/7	1.0	0.50054	10.0	860391.0	0.50054	Y
4	IC 410-70996/6	2.0	0.985813	10.0	869181.0	0.492907	Y
5	IC 410-70996/5	5.0	2.433577	10.0	878834.0	0.486715	Y
6	ICIS 410-70996/4	10.0	4.817511	10.0	888382.0	0.481751	Y
7	IC 410-70996/3	25.0	12.461038	10.0	896780.0	0.498442	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

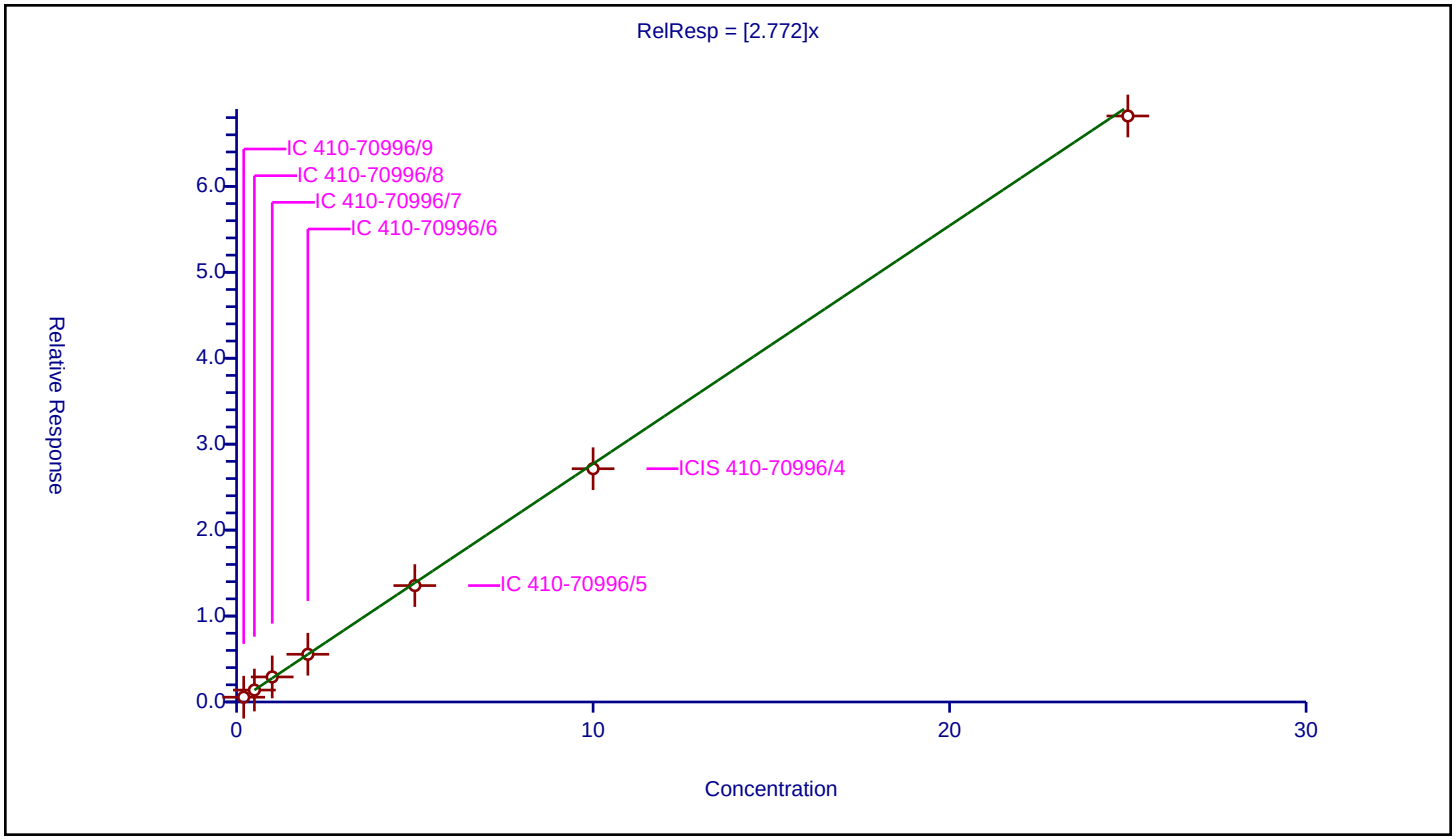
Curve Coefficients

Intercept:	0
Slope:	2.772

Error Coefficients

Standard Error:	2740000
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 410-70996/9	0.2	0.555803	10.0	857732.0	2.779015	Y
2	IC 410-70996/8	0.5	1.389084	10.0	861870.0	2.778168	Y
3	IC 410-70996/7	1.0	2.916767	10.0	860391.0	2.916767	Y
4	IC 410-70996/6	2.0	5.552583	10.0	869181.0	2.776292	Y
5	IC 410-70996/5	5.0	13.547211	10.0	878834.0	2.709442	Y
6	ICIS 410-70996/4	10.0	27.142389	10.0	888382.0	2.714239	Y
7	IC 410-70996/3	25.0	68.188686	10.0	896780.0	2.727547	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

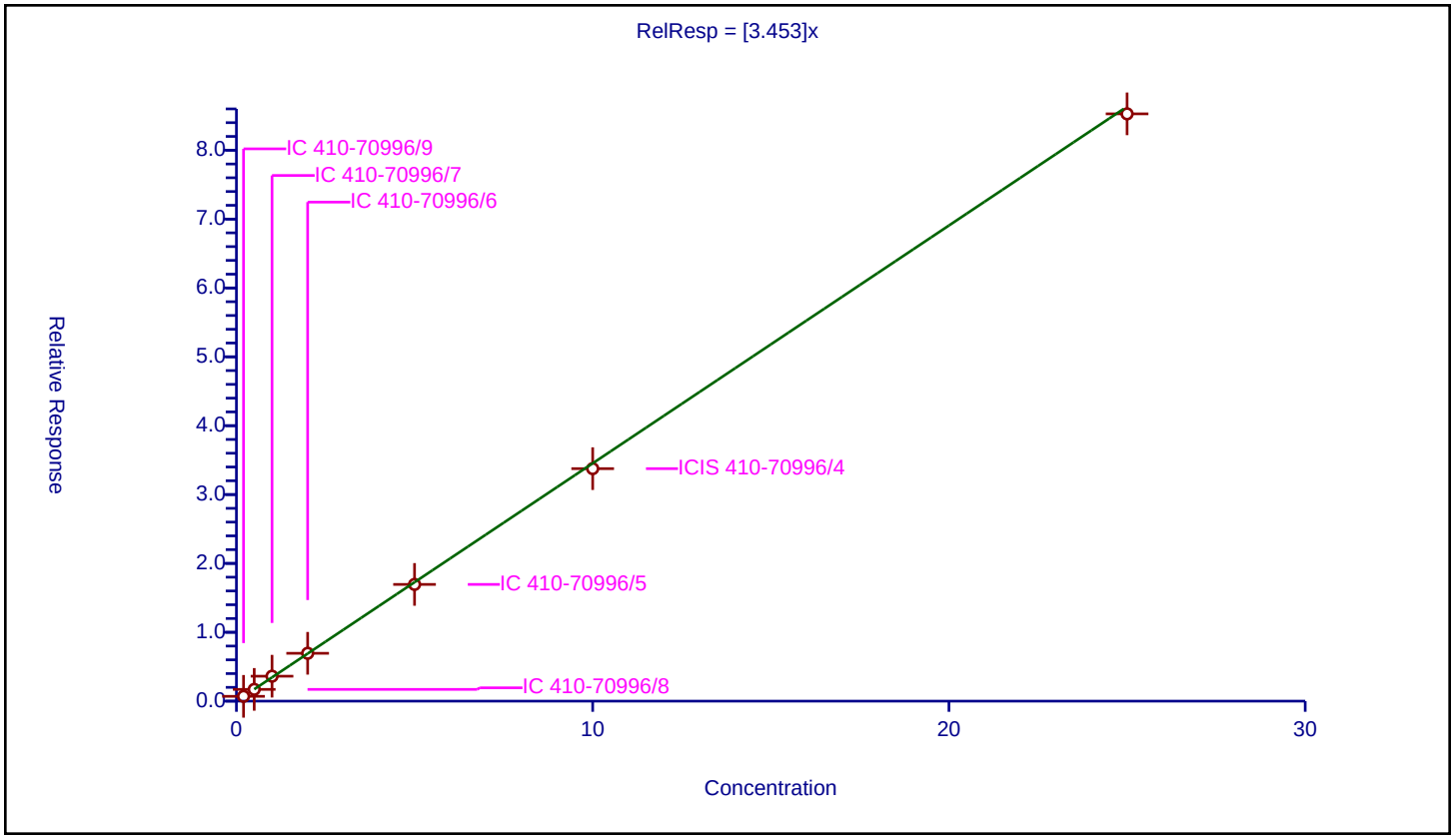
Curve Coefficients

Intercept:	0
Slope:	3.453

Error Coefficients

Standard Error:	3420000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.696406	10.0	857732.0	3.482032	Y
2	IC 410-70996/8	0.5	1.70868	10.0	861870.0	3.41736	Y
3	IC 410-70996/7	1.0	3.623457	10.0	860391.0	3.623457	Y
4	IC 410-70996/6	2.0	6.948553	10.0	869181.0	3.474276	Y
5	IC 410-70996/5	5.0	16.947706	10.0	878834.0	3.389541	Y
6	ICIS 410-70996/4	10.0	33.763043	10.0	888382.0	3.376304	Y
7	IC 410-70996/3	25.0	85.28018	10.0	896780.0	3.411207	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

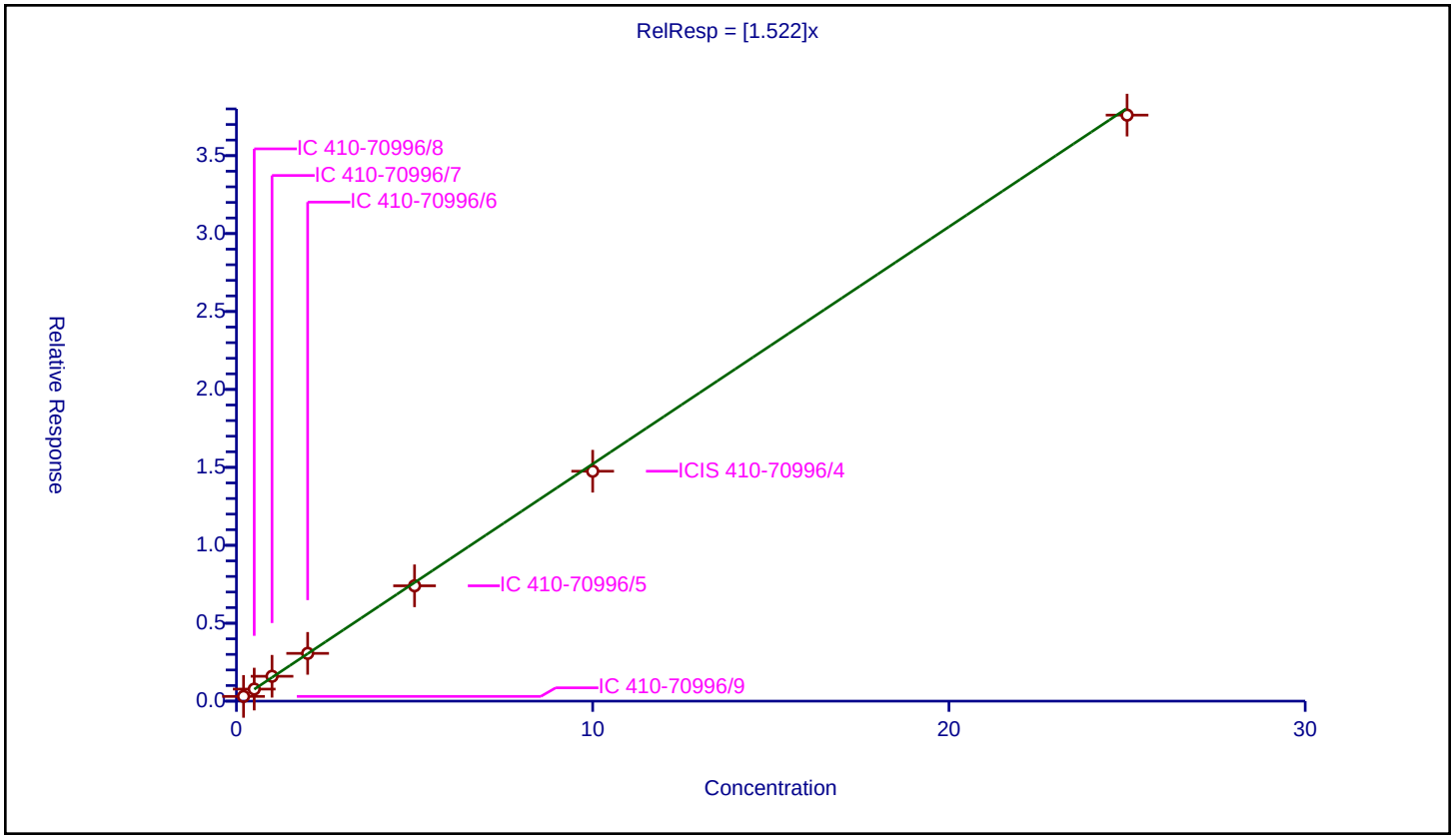
Curve Coefficients

Intercept:	0
Slope:	1.522

Error Coefficients

Standard Error:	1510000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.303918	10.0	857732.0	1.519589	Y
2	IC 410-70996/8	0.5	0.772854	10.0	861870.0	1.545709	Y
3	IC 410-70996/7	1.0	1.594973	10.0	860391.0	1.594973	Y
4	IC 410-70996/6	2.0	3.065023	10.0	869181.0	1.532512	Y
5	IC 410-70996/5	5.0	7.401045	10.0	878834.0	1.480209	Y
6	ICIS 410-70996/4	10.0	14.75246	10.0	888382.0	1.475246	Y
7	IC 410-70996/3	25.0	37.600995	10.0	896780.0	1.50404	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

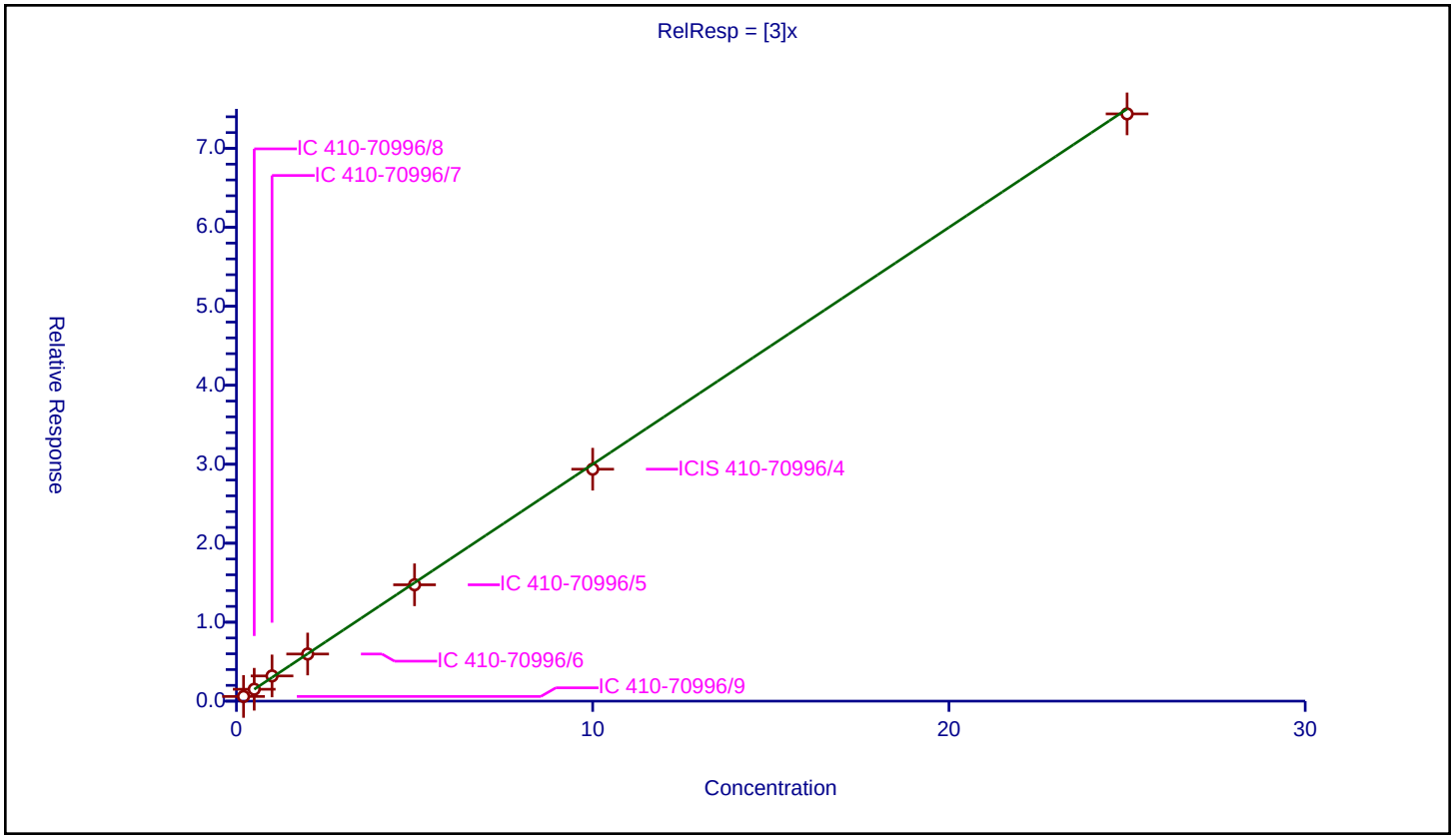
Curve Coefficients

Intercept:	0
Slope:	3

Error Coefficients

Standard Error:	2980000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.590394	10.0	857732.0	2.951971	Y
2	IC 410-70996/8	0.5	1.504345	10.0	861870.0	3.00869	Y
3	IC 410-70996/7	1.0	3.192467	10.0	860391.0	3.192467	Y
4	IC 410-70996/6	2.0	5.969367	10.0	869181.0	2.984683	Y
5	IC 410-70996/5	5.0	14.734136	10.0	878834.0	2.946827	Y
6	ICIS 410-70996/4	10.0	29.373952	10.0	888382.0	2.937395	Y
7	IC 410-70996/3	25.0	74.369132	10.0	896780.0	2.974765	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

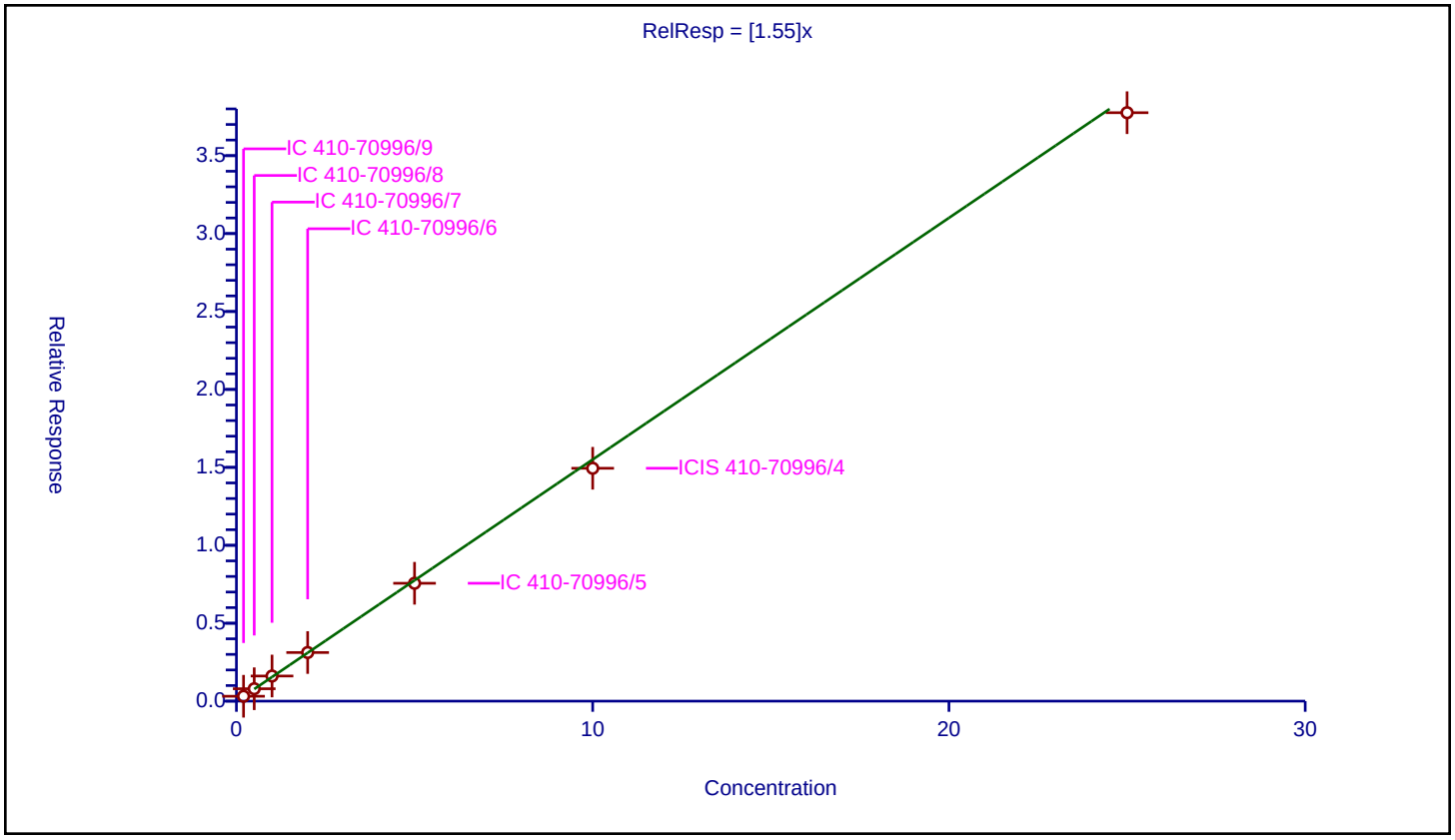
Curve Coefficients

Intercept:	0
Slope:	1.55

Error Coefficients

Standard Error:	1510000
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 410-70996/9	0.2	0.314399	10.0	857732.0	1.571995	Y
2	IC 410-70996/8	0.5	0.79519	10.0	861870.0	1.590379	Y
3	IC 410-70996/7	1.0	1.612441	10.0	860391.0	1.612441	Y
4	IC 410-70996/6	2.0	3.119972	10.0	869181.0	1.559986	Y
5	IC 410-70996/5	5.0	7.563283	10.0	878834.0	1.512657	Y
6	ICIS 410-70996/4	10.0	14.941894	10.0	888382.0	1.494189	Y
7	IC 410-70996/3	25.0	37.756083	10.0	896780.0	1.510243	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

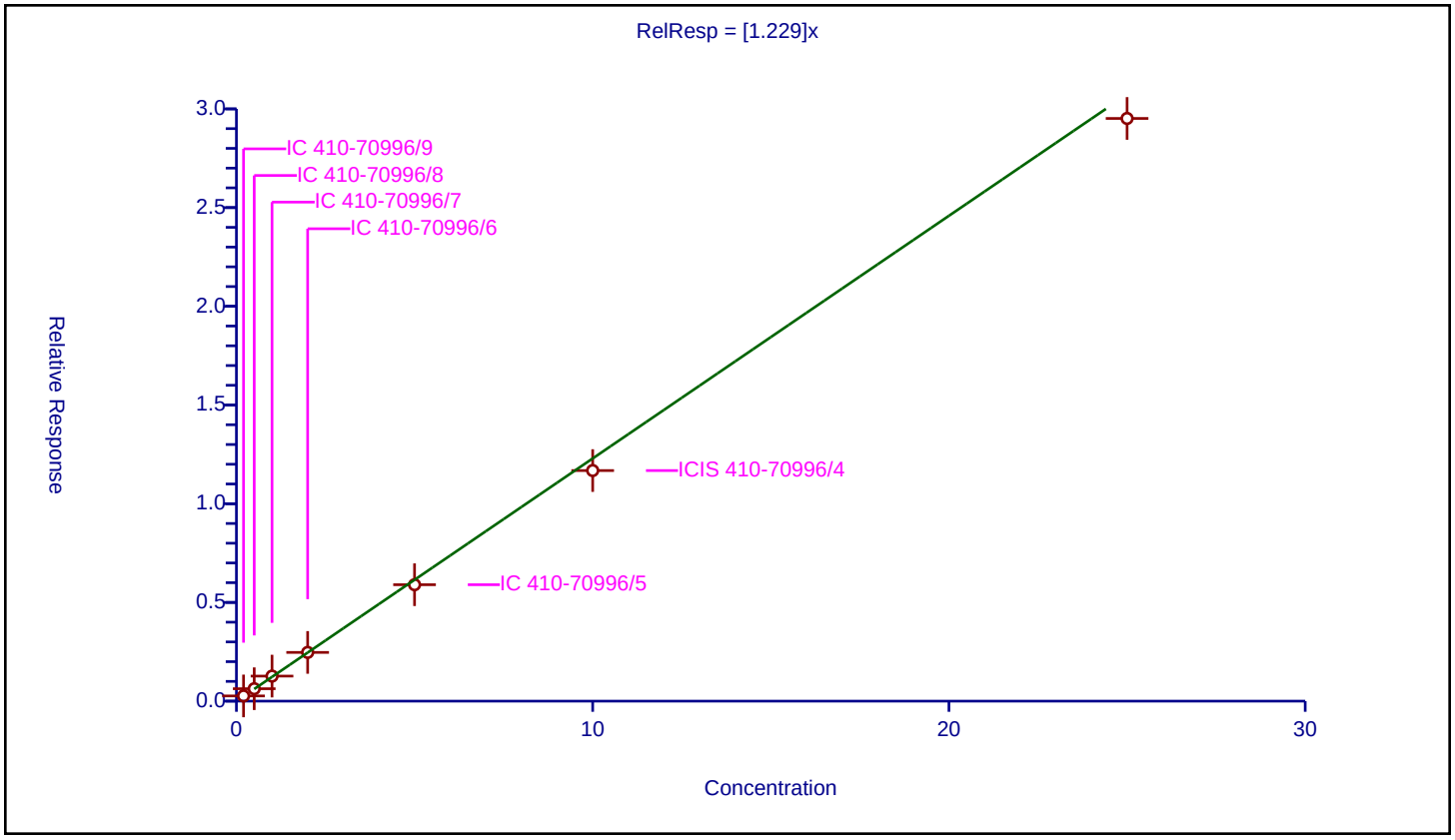
Curve Coefficients

Intercept:	0
Slope:	1.229

Error Coefficients

Standard Error:	1180000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.263299	10.0	857732.0	1.316495	Y
2	IC 410-70996/8	0.5	0.628714	10.0	861870.0	1.257429	Y
3	IC 410-70996/7	1.0	1.268574	10.0	860391.0	1.268574	Y
4	IC 410-70996/6	2.0	2.468128	10.0	869181.0	1.234064	Y
5	IC 410-70996/5	5.0	5.898031	10.0	878834.0	1.179606	Y
6	ICIS 410-70996/4	10.0	11.680268	10.0	888382.0	1.168027	Y
7	IC 410-70996/3	25.0	29.516169	10.0	896780.0	1.180647	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

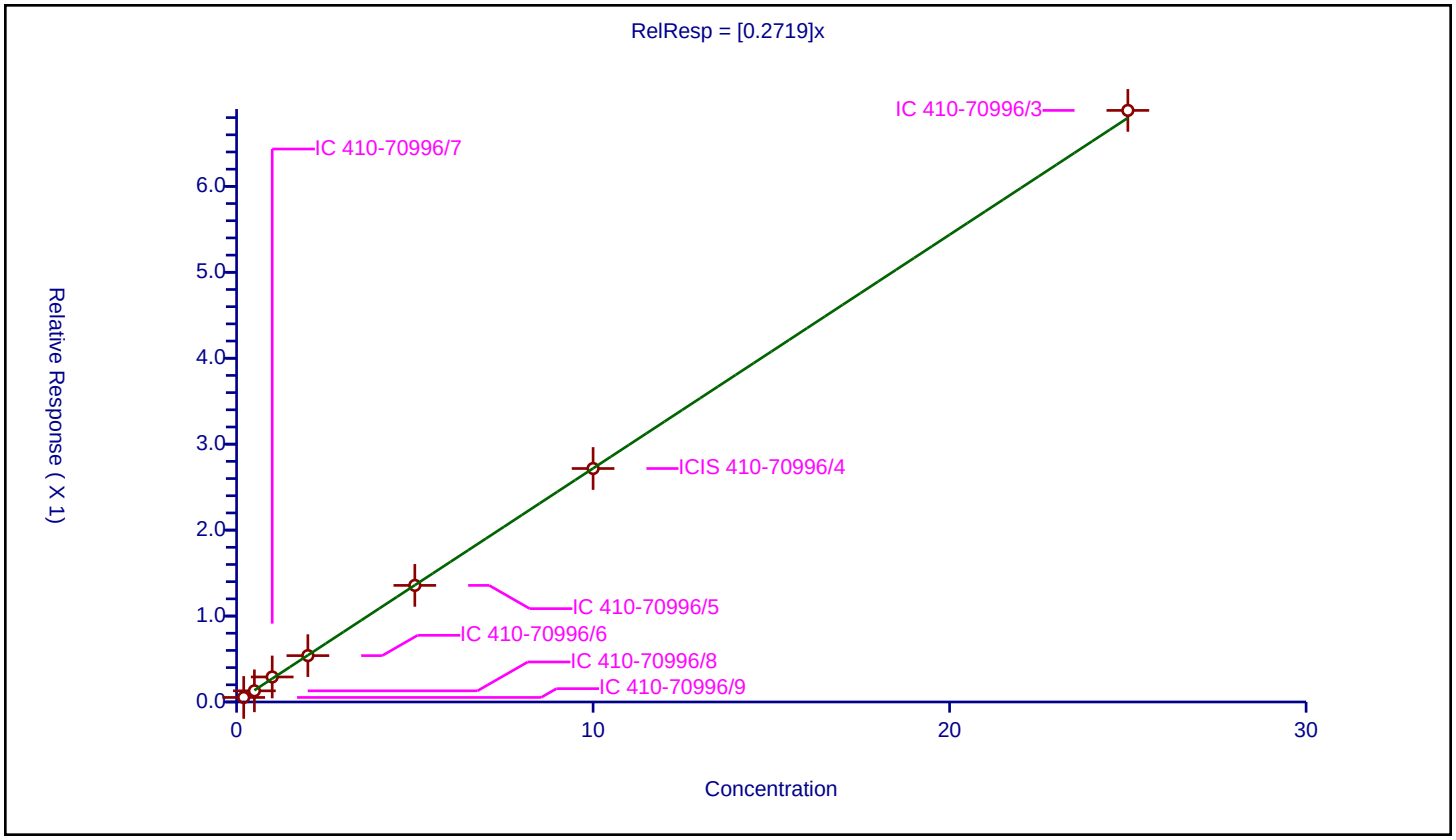
Curve Coefficients

Intercept:	0
Slope:	0.2719

Error Coefficients

Standard Error:	276000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.052814	10.0	857732.0	0.264068	Y
2	IC 410-70996/8	0.5	0.129741	10.0	861870.0	0.259482	Y
3	IC 410-70996/7	1.0	0.291321	10.0	860391.0	0.291321	Y
4	IC 410-70996/6	2.0	0.539531	10.0	869181.0	0.269765	Y
5	IC 410-70996/5	5.0	1.356741	10.0	878834.0	0.271348	Y
6	ICIS 410-70996/4	10.0	2.716962	10.0	888382.0	0.271696	Y
7	IC 410-70996/3	25.0	6.884018	10.0	896780.0	0.275361	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

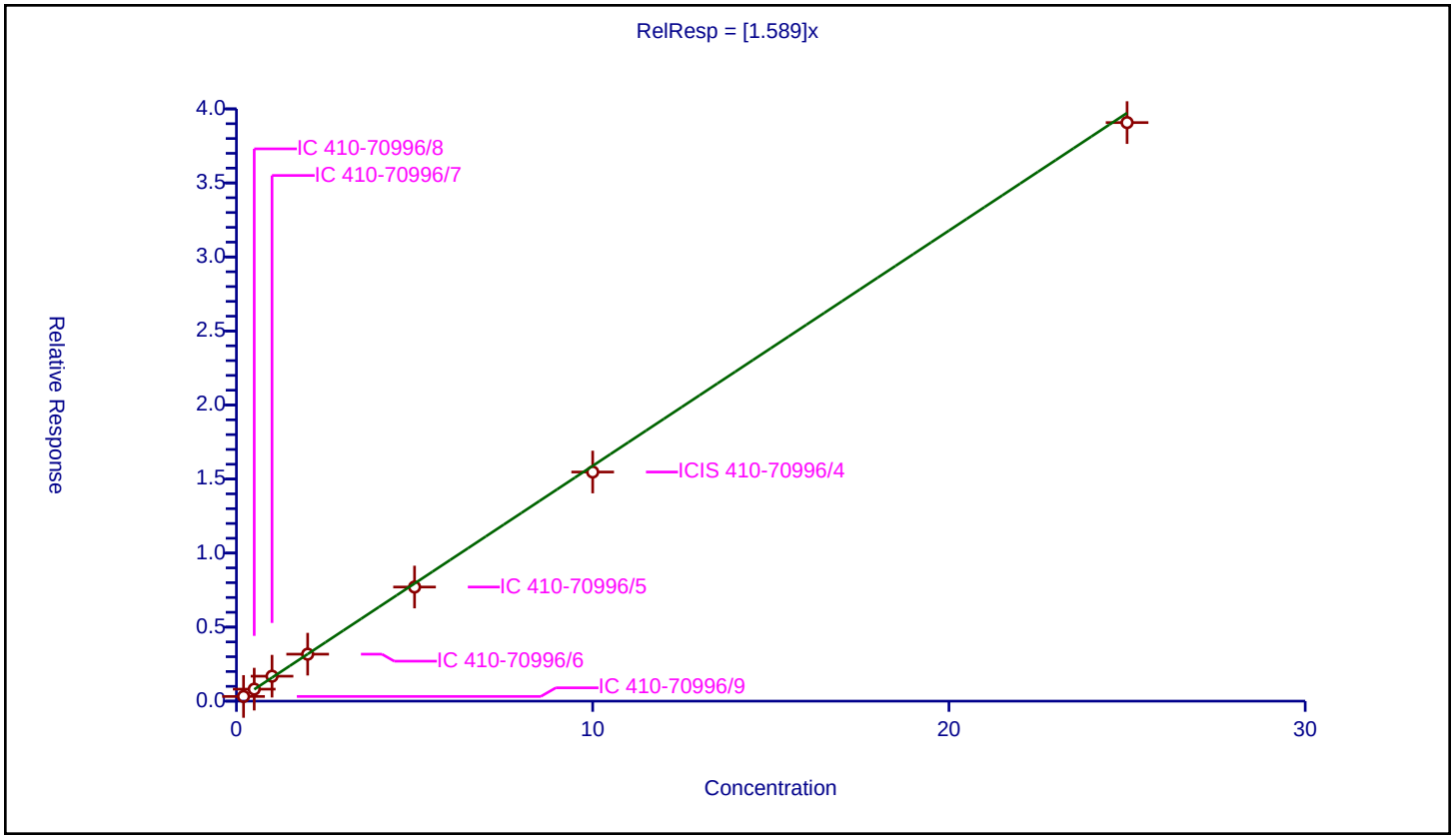
Curve Coefficients

Intercept:	0
Slope:	1.589

Error Coefficients

Standard Error:	1570000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.316089	10.0	857732.0	1.580447	Y
2	IC 410-70996/8	0.5	0.809821	10.0	861870.0	1.619641	Y
3	IC 410-70996/7	1.0	1.684804	10.0	860391.0	1.684804	Y
4	IC 410-70996/6	2.0	3.172021	10.0	869181.0	1.58601	Y
5	IC 410-70996/5	5.0	7.707895	10.0	878834.0	1.541579	Y
6	ICIS 410-70996/4	10.0	15.4751	10.0	888382.0	1.54751	Y
7	IC 410-70996/3	25.0	39.075894	10.0	896780.0	1.563036	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

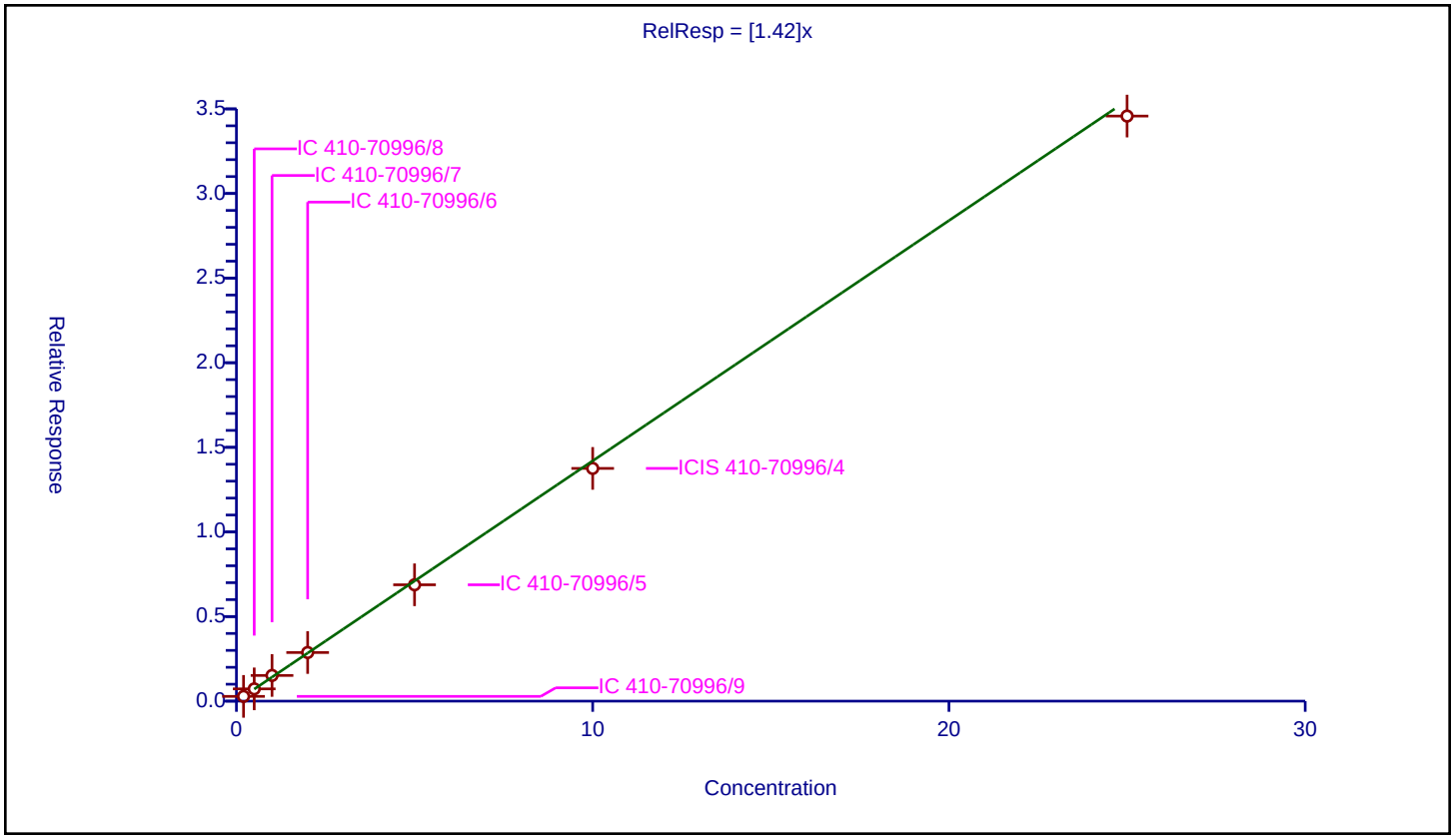
Curve Coefficients

Intercept:	0
Slope:	1.42

Error Coefficients

Standard Error:	1390000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.280461	10.0	857732.0	1.402303	Y
2	IC 410-70996/8	0.5	0.724564	10.0	861870.0	1.449128	Y
3	IC 410-70996/7	1.0	1.517368	10.0	860391.0	1.517368	Y
4	IC 410-70996/6	2.0	2.87397	10.0	869181.0	1.436985	Y
5	IC 410-70996/5	5.0	6.876316	10.0	878834.0	1.375263	Y
6	ICIS 410-70996/4	10.0	13.753712	10.0	888382.0	1.375371	Y
7	IC 410-70996/3	25.0	34.577221	10.0	896780.0	1.383089	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

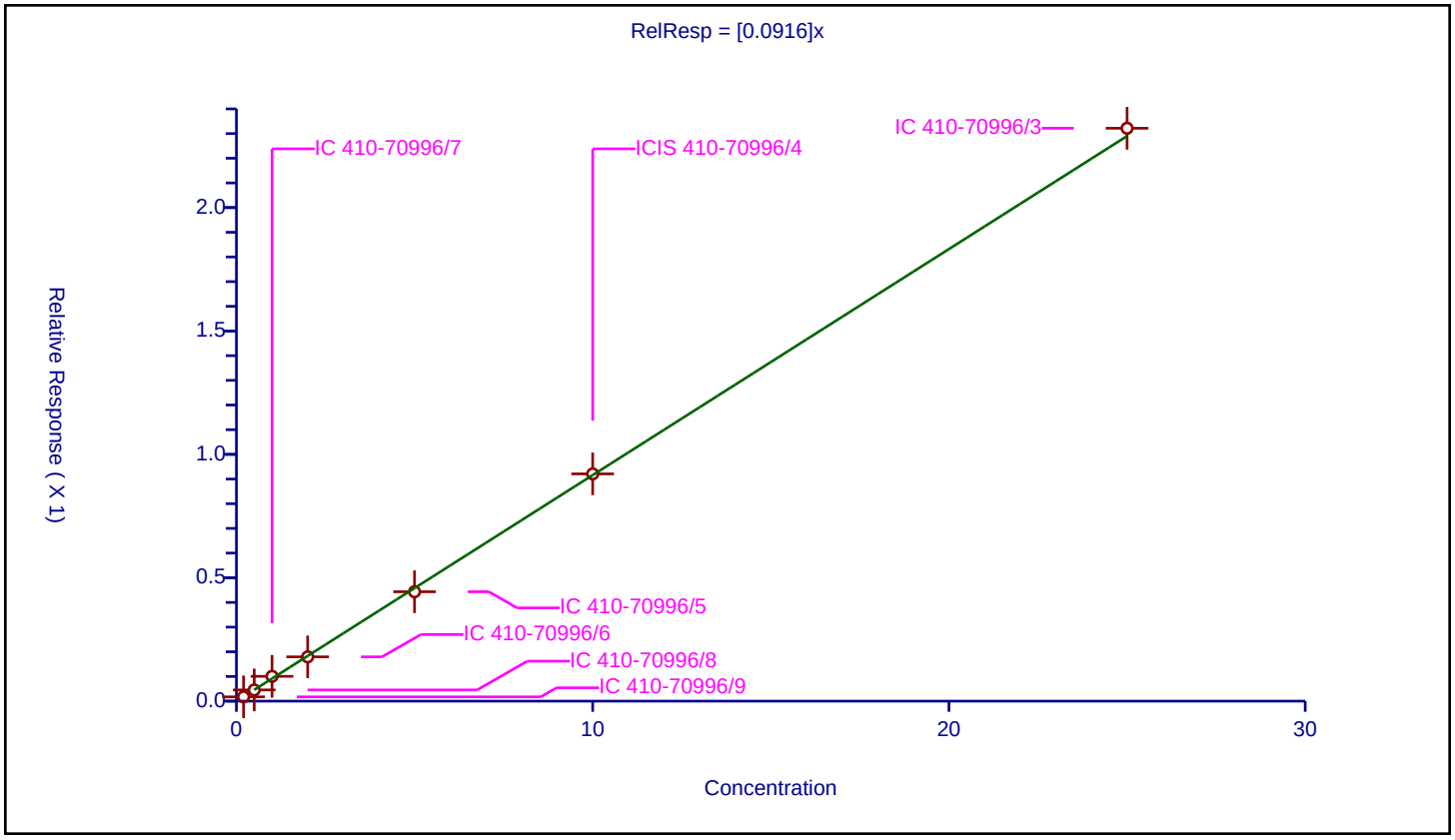
Curve Coefficients

Intercept:	0
Slope:	0.0916

Error Coefficients

Standard Error:	93000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.017325	10.0	857732.0	0.086624	Y
2	IC 410-70996/8	0.5	0.045343	10.0	861870.0	0.090687	Y
3	IC 410-70996/7	1.0	0.100536	10.0	860391.0	0.100536	Y
4	IC 410-70996/6	2.0	0.179433	10.0	869181.0	0.089717	Y
5	IC 410-70996/5	5.0	0.443303	10.0	878834.0	0.088661	Y
6	ICIS 410-70996/4	10.0	0.920955	10.0	888382.0	0.092096	Y
7	IC 410-70996/3	25.0	2.32155	10.0	896780.0	0.092862	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

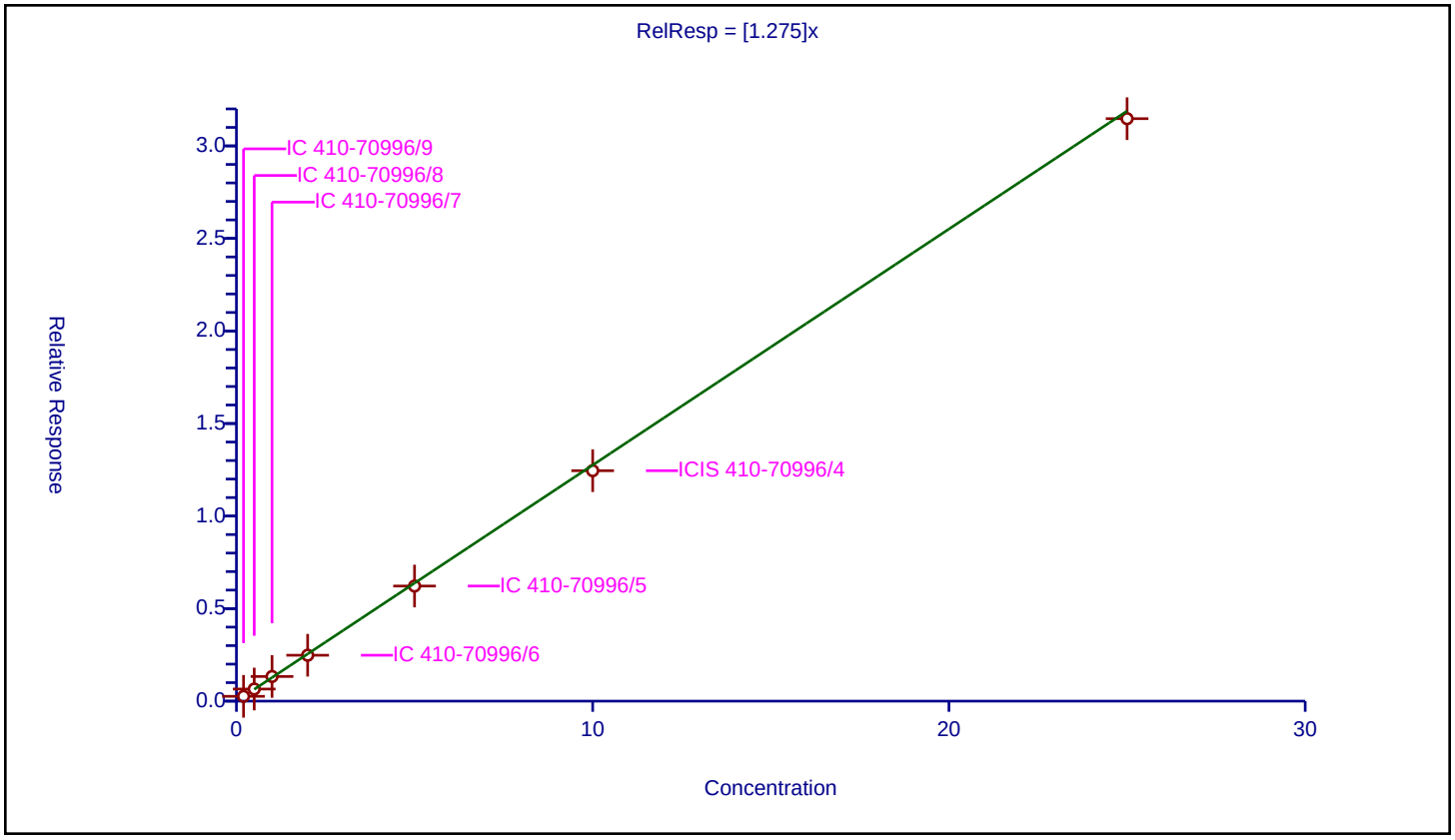
Curve Coefficients

Intercept:	0
Slope:	1.275

Error Coefficients

Standard Error:	1260000
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 410-70996/9	0.2	0.260093	10.0	857732.0	1.300464	Y
2	IC 410-70996/8	0.5	0.653764	10.0	861870.0	1.307529	Y
3	IC 410-70996/7	1.0	1.331732	10.0	860391.0	1.331732	Y
4	IC 410-70996/6	2.0	2.480761	10.0	869181.0	1.24038	Y
5	IC 410-70996/5	5.0	6.218842	10.0	878834.0	1.243768	Y
6	ICIS 410-70996/4	10.0	12.451704	10.0	888382.0	1.24517	Y
7	IC 410-70996/3	25.0	31.471743	10.0	896780.0	1.25887	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

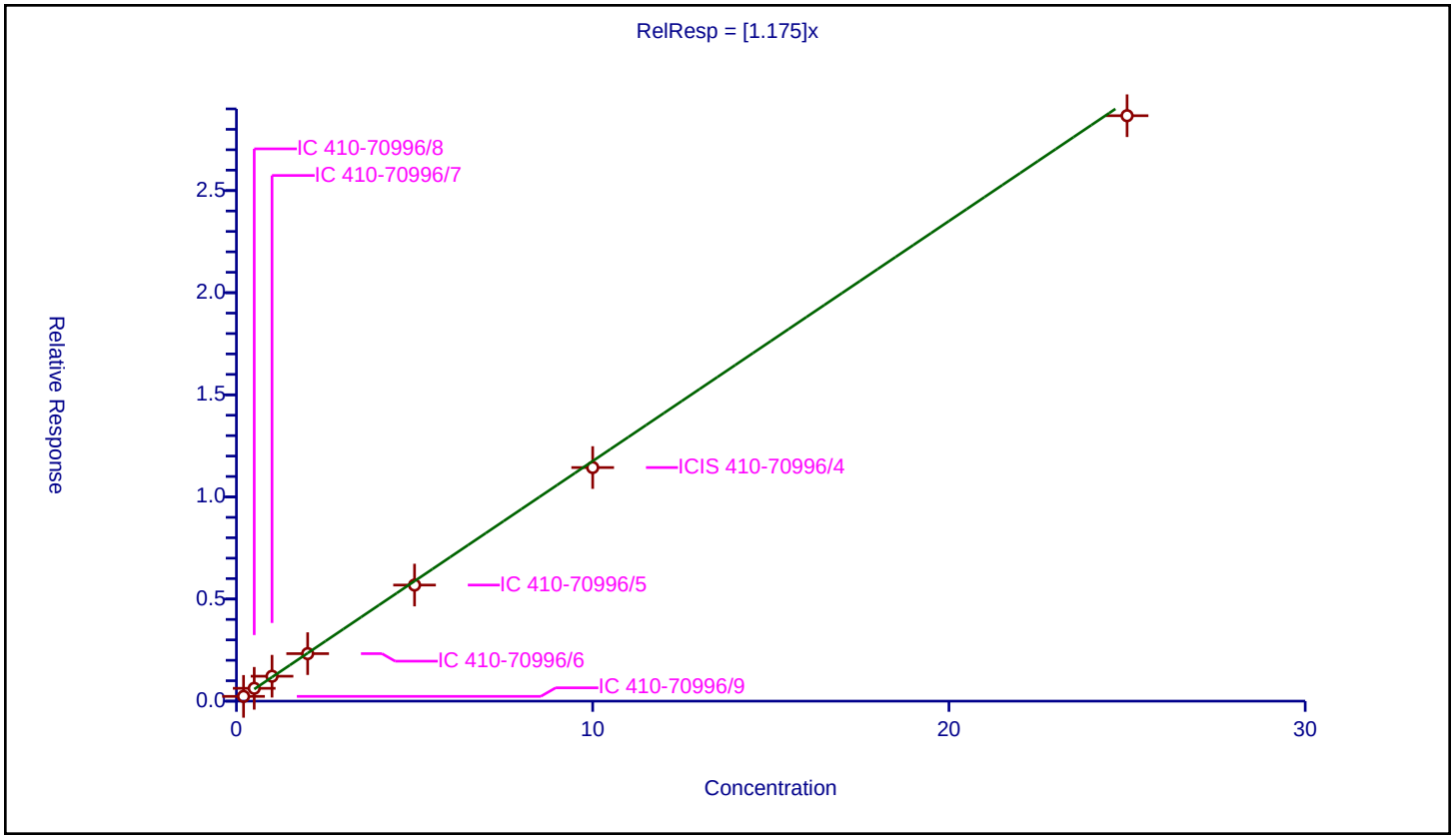
Curve Coefficients

Intercept:	0
Slope:	1.175

Error Coefficients

Standard Error:	1150000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.232543	10.0	857732.0	1.162717	Y
2	IC 410-70996/8	0.5	0.62745	10.0	861870.0	1.254899	Y
3	IC 410-70996/7	1.0	1.219934	10.0	860391.0	1.219934	Y
4	IC 410-70996/6	2.0	2.325661	10.0	869181.0	1.16283	Y
5	IC 410-70996/5	5.0	5.684236	10.0	878834.0	1.136847	Y
6	ICIS 410-70996/4	10.0	11.438244	10.0	888382.0	1.143824	Y
7	IC 410-70996/3	25.0	28.666005	10.0	896780.0	1.14664	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

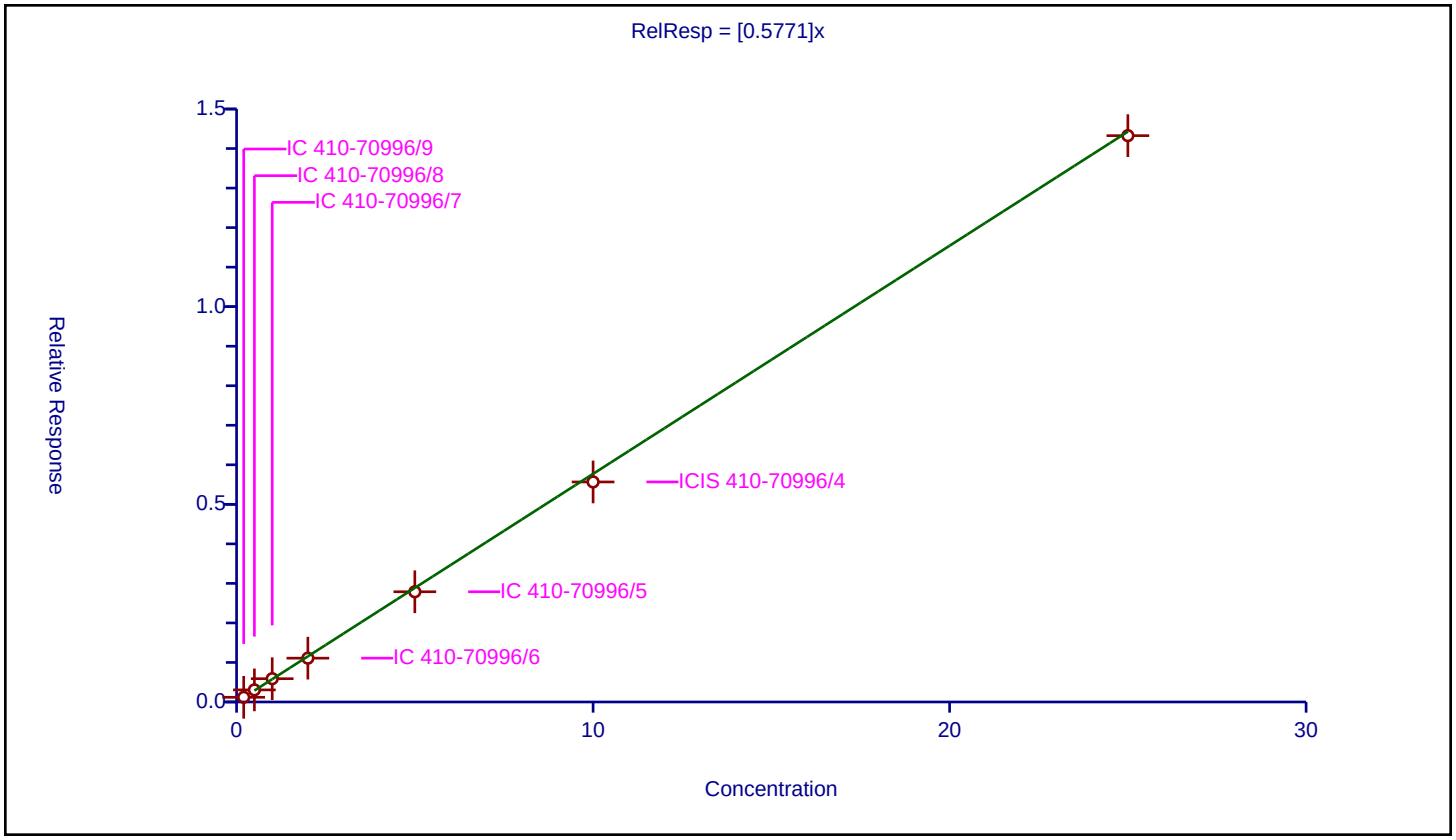
Curve Coefficients

Intercept:	0
Slope:	0.5771

Error Coefficients

Standard Error:	573000
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 410-70996/9	0.2	0.11928	10.0	857732.0	0.596398	Y
2	IC 410-70996/8	0.5	0.30609	10.0	861870.0	0.61218	Y
3	IC 410-70996/7	1.0	0.589441	10.0	860391.0	0.589441	Y
4	IC 410-70996/6	2.0	1.108584	10.0	869181.0	0.554292	Y
5	IC 410-70996/5	5.0	2.788137	10.0	878834.0	0.557627	Y
6	ICIS 410-70996/4	10.0	5.566209	10.0	888382.0	0.556621	Y
7	IC 410-70996/3	25.0	14.325866	10.0	896780.0	0.573035	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

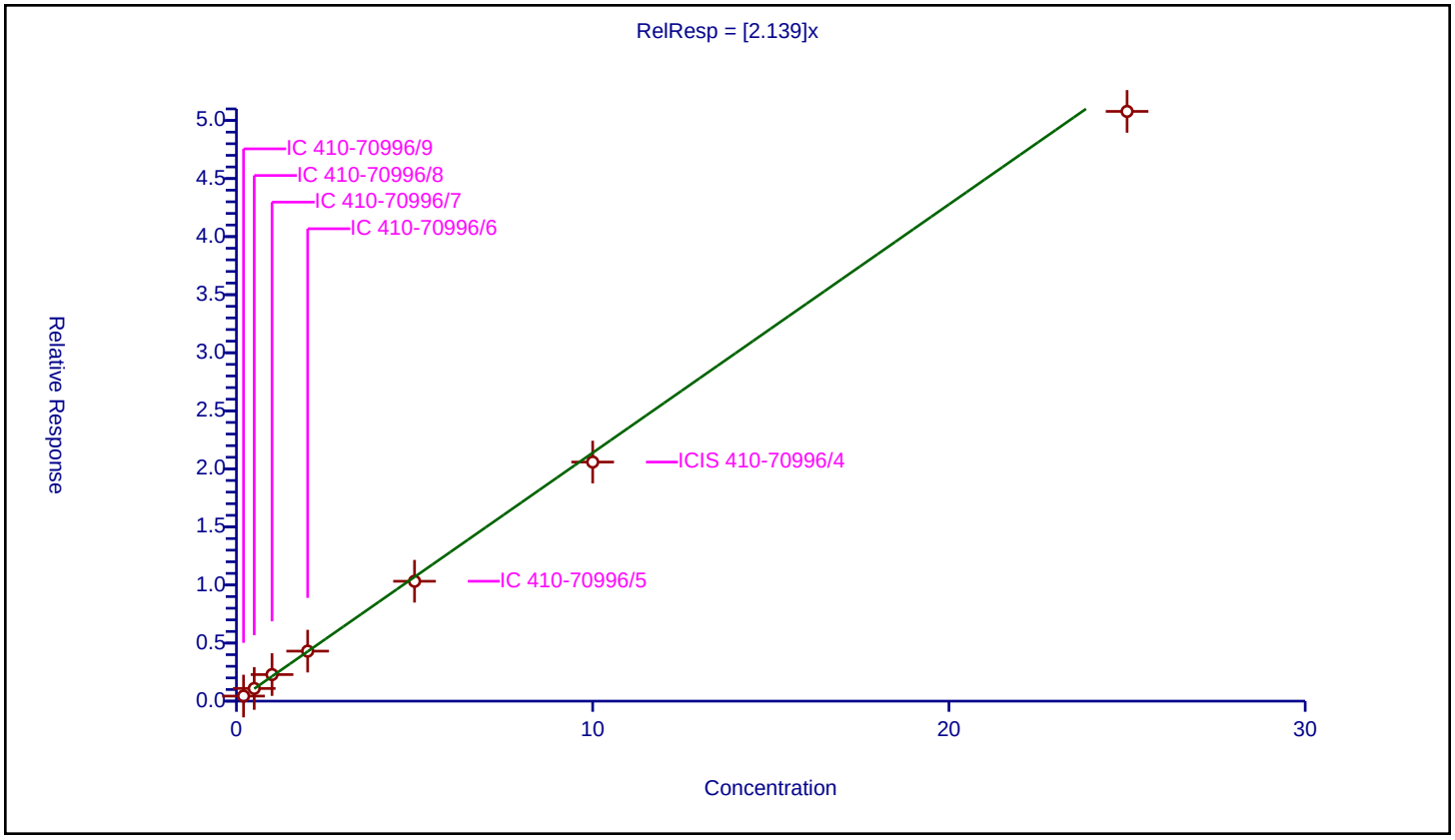
Curve Coefficients

Intercept:	0
Slope:	2.139

Error Coefficients

Standard Error:	2050000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.438027	10.0	857732.0	2.190136	Y
2	IC 410-70996/8	0.5	1.09165	10.0	861870.0	2.183299	Y
3	IC 410-70996/7	1.0	2.28882	10.0	860391.0	2.28882	Y
4	IC 410-70996/6	2.0	4.306445	10.0	869181.0	2.153222	Y
5	IC 410-70996/5	5.0	10.324851	10.0	878834.0	2.06497	Y
6	ICIS 410-70996/4	10.0	20.587945	10.0	888382.0	2.058795	Y
7	IC 410-70996/3	25.0	50.784328	10.0	896780.0	2.031373	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

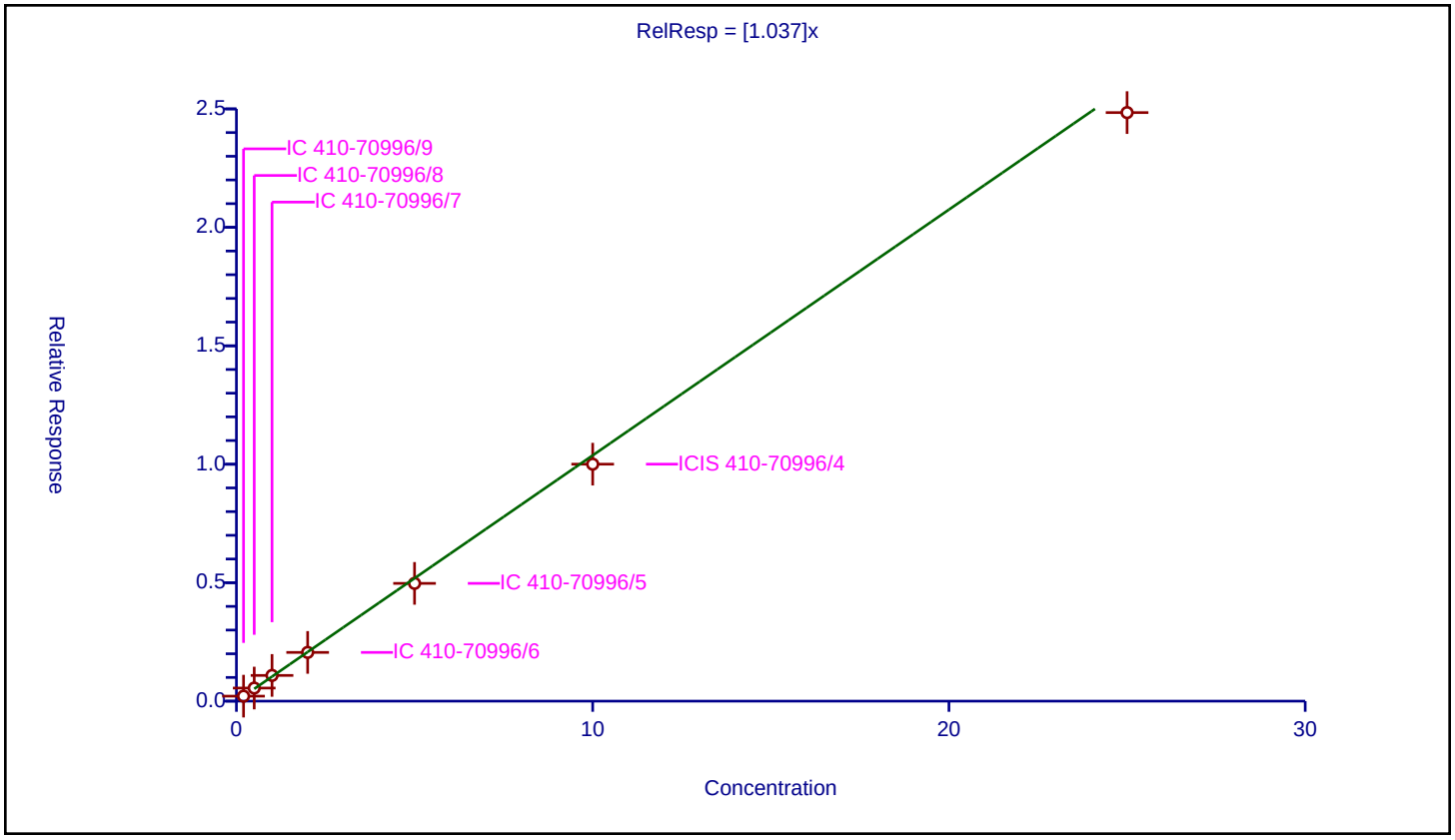
Curve Coefficients

Intercept:	0
Slope:	1.037

Error Coefficients

Standard Error:	999000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-70996/9	0.2	0.21108	10.0	857732.0	1.0554	Y
2	IC 410-70996/8	0.5	0.55216	10.0	861870.0	1.10432	Y
3	IC 410-70996/7	1.0	1.085065	10.0	860391.0	1.085065	Y
4	IC 410-70996/6	2.0	2.057339	10.0	869181.0	1.02867	Y
5	IC 410-70996/5	5.0	4.971542	10.0	878834.0	0.994308	Y
6	ICIS 410-70996/4	10.0	10.003107	10.0	888382.0	1.000311	Y
7	IC 410-70996/3	25.0	24.844009	10.0	896780.0	0.99376	Y



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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 69397

SDG No.:

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

Calibration Start Date: 11/23/2020 12:45 Calibration End Date: 11/23/2020 14:53 Calibration ID: 16044

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-69397/9	IN23I07.D
Level 2	IC 410-69397/8	IN23I06.D
Level 3	IC 410-69397/7	IN23I05.D
Level 4	IC 410-69397/6	IN23I04.D
Level 5	IC 410-69397/5	IN23I03.D
Level 6	ICIS 410-69397/4	IN23I02.D
Level 7	IC 410-69397/3	IN23I01.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	0.3607 0.3693	0.3443 0.3613	0.3491	0.3467	0.3668	Ave		0.3569			0.1000	2.8		20.0			
Chloromethane	0.4315 0.4102	0.4125 0.3961	0.4191	0.4222	0.4074	Ave		0.4141			0.1000	2.8		20.0			
1,3-Butadiene	0.4408 0.3172	0.3851 0.3000	0.3643	0.3276	0.3405	Ave		0.3536				13.5		20.0			
Vinyl chloride	0.3994 0.3784	0.3665 0.3697	0.3801	0.3921	0.3824	Ave		0.3812			0.1000	3.0		20.0			
Bromomethane	0.2855 0.2712	0.2809 0.2612	0.2791	0.2861	0.2711	Ave		0.2764			0.1000	3.3		20.0			
Chloroethane	0.2486 0.2305	0.2284 0.2245	0.2380	0.2383	0.2320	Ave		0.2343			0.1000	3.4		20.0			
Dichlorofluoromethane	0.5406 0.5172	0.5160 0.5011	0.5399	0.5385	0.5215	Ave		0.5249			0.1000	2.9		20.0			
Trichlorofluoromethane	0.5316 0.4851	0.4934 0.4690	0.4894	0.4922	0.4935	Ave		0.4935			0.1000	3.8		20.0			
Ethyl ether	0.2178 0.2235	0.2254 0.2169	0.2165	0.2247	0.2222	Ave		0.2210				1.7		20.0			
Freon 123a	0.3613 0.3458	0.3509 0.3341	0.3459	0.3338	0.3511	Ave		0.3461				2.8		20.0			
Acrolein	2.2212 2.1445	2.2354 2.1316	2.2940	2.1390	2.1774	Ave		2.1919				2.8		20.0			
1,1-Dichloroethene	0.2688 0.2684	0.2691 0.2596	0.2698	0.2604	0.2701	Ave		0.2666			0.1000	1.7		20.0			
Acetone	3.2304 2.4485	2.9420 2.4033	2.8790	2.6067	2.5718	Ave		2.7259			0.1000	11.0		20.0			
Freon 113	0.2816 0.2866	0.2809 0.2814	0.2835	0.2646	0.2944	Ave		0.2819			0.1000	3.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 69397

SDG No.:

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

Calibration Start Date: 11/23/2020 12:45 Calibration End Date: 11/23/2020 14:53 Calibration ID: 16044

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 iodide	0.5162 0.5263	0.5233 0.5129	0.5277	0.5126	0.5284	Ave		0.5211				1.3		20.0			
Carbon disulfide	0.8367 0.7635	0.7753 0.7493	0.7713	0.7407	0.7743	Ave		0.7730			0.1000	4.0		20.0			
Methyl acetate	6.6934 7.0637	7.8022 8.0998	7.6625	7.5562	7.1775	Ave		7.4365			0.1000	6.5		20.0			
Allyl chloride	0.4047 0.4117	0.4018 0.3988	0.4007	0.4153	0.4043	Ave		0.4053				1.5		20.0			
Methylene Chloride	0.3128 0.2909	0.3032 0.2800	0.3017	0.2877	0.2922	Ave		0.2955			0.1000	3.7		20.0			
t-Butyl alcohol	1.1481 1.0257	1.0274 0.9520	1.1531	1.0833	1.0725	Ave		1.0660				6.7		20.0			
Acrylonitrile	3.6240 3.4877	3.5908 3.5376	3.5903	3.5261	3.5511	Ave		3.5582				1.3		20.0			
Methyl tert-butyl ether	0.7214 0.7248	0.7003 0.7026	0.7096	0.7104	0.7269	Ave		0.7137			0.1000	1.5		20.0			
trans-1,2-Dichloroethene	0.2992 0.2966	0.2941 0.2867	0.2985	0.2867	0.2993	Ave		0.2944			0.1000	1.9		20.0			
n-Hexane	0.3910 0.4294	0.3750 0.4213	0.3885	0.3804	0.4346	Ave		0.4029				6.1		20.0			
1,1-Dichloroethane	0.5289 0.5373	0.5387 0.5218	0.5378	0.5223	0.5389	Ave		0.5323			0.2000	1.5		20.0			
di-Isopropyl ether	0.8780 0.8925	0.8803 0.8673	0.8822	0.8653	0.8928	Ave		0.8798				1.2		20.0			
2-Chloro-1,3-butadiene	0.4216 0.4386	0.4257 0.4264	0.4213	0.4183	0.4391	Ave		0.4273				2.0		20.0			
Ethyl t-butyl ether	0.8084 0.8567	0.8218 0.8249	0.8295	0.8237	0.8495	Ave		0.8307				2.0		20.0			
2-Butanone (MEK)	4.5524 4.4713	4.4984 4.5520	4.8543	4.4758	4.5171	Ave		4.5602			0.1000	2.9		20.0			
cis-1,2-Dichloroethene	0.3554 0.3420	0.3520 0.3305	0.3377	0.3338	0.3430	Ave		0.3420			0.1000	2.7		20.0			
2,2-Dichloropropane	0.4196 0.4410	0.4258 0.4302	0.4239	0.4170	0.4383	Ave		0.4280				2.1		20.0			
Propionitrile	1.3836 1.2371	1.3672 1.3054	1.3990	1.3009	1.3416	Ave		1.3335				4.2		20.0			
Methacrylonitrile	4.5971 4.6314	4.7705 4.6971	4.9523	4.5510	4.6706	Ave		4.6957				2.8		20.0			
Bromochloromethane	0.1466 0.1504	0.1481 0.1470	0.1535	0.1548	0.1545	Ave		0.1507				2.4		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.: 410-30627-1 Analy Batch No.: 69397

SDG No.:

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

Calibration Start Date: 11/23/2020 12:45 Calibration End Date: 11/23/2020 14:53 Calibration ID: 16044

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								
Tetrahydrofuran	1.3541 1.3473	1.4107 1.3762	1.4473	1.3631	1.3821	Ave		1.3830				2.5		20.0			
Chloroform	0.5335 0.5244	0.5341 0.5066	0.5299	0.5137	0.5295	Ave		0.5245			0.2000	2.0		20.0			
1,1,1-Trichloroethane	0.4728 0.4750	0.4744 0.4653	0.4720	0.4624	0.4768	Ave		0.4712			0.1000	1.1		20.0			
Cyclohexane	0.4660 0.5041	0.4771 0.4959	0.4923	0.4717	0.5119	Ave		0.4884			0.1000	3.5		20.0			
Carbon tetrachloride	0.4232 0.4294	0.4166 0.4228	0.4133	0.4122	0.4351	Ave		0.4218			0.1000	2.0		20.0			
1,1-Dichloropropene	0.4077 0.4271	0.4064 0.4203	0.4219	0.4151	0.4293	Ave		0.4182				2.1		20.0			
Isobutyl alcohol	0.3704 0.3157	0.3200 0.3294	0.3652	0.3491	0.3503	Ave		0.3429				6.3		20.0			
Benzene	1.2836 1.2710	1.2815 1.2375	1.2837	1.2402	1.2718	Ave		1.2670			0.5000	1.6		20.0			
1,2-Dichloroethane	0.3341 0.3048	0.3141 0.2979	0.3139	0.3004	0.3003	Ave		0.3094			0.1000	4.1		20.0			
t-Amyl methyl ether	0.7306 0.7880	0.7514 0.7661	0.7539	0.7486	0.7884	Ave		0.7610				2.8		20.0			
n-Heptane	0.4050 0.4228	0.3844 0.4175	0.3968	0.3865	0.4191	Ave		0.4046				3.9		20.0			
n-Butanol	0.2834 0.3525	0.3153 0.3344	0.3237	0.3223	0.3370	Ave		0.3241				6.7		20.0			
Trichloroethene	0.3350 0.3332	0.3357 0.3278	0.3352	0.3206	0.3341	Ave		0.3316			0.2000	1.7		20.0			
Methylcyclohexane	0.5073 0.5633	0.5099 0.5518	0.5427	0.5275	0.5684	Ave		0.5387			0.1000	4.6		20.0			
1,2-Dichloropropane	0.3031 0.3179	0.3146 0.3113	0.3118	0.3076	0.3136	Ave		0.3114			0.1000	1.6		20.0			
Methyl methacrylate	7.9156 9.1158	8.6260 9.2885	8.8793	8.5179	8.8590	Ave		8.7432				5.2		20.0			
1,4-Dioxane	+++++ 0.0850	0.0896 0.0759	0.0919	0.0867	0.0785	Ave		0.0846			0.0050	7.4		20.0			
Dibromomethane	0.1433 0.1484	0.1510 0.1471	0.1467	0.1445	0.1495	Ave		0.1472				1.8		20.0			
Bromodichloromethane	0.3741 0.3849	0.3645 0.3799	0.3707	0.3601	0.3783	Ave		0.3732			0.2000	2.3		20.0			
2-Nitropropane	2.0575 2.2292	2.1525 2.3209	2.2556	2.1373	2.2324	Ave		2.1979				4.0		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.: 410-30627-1 Analy Batch No.: 69397

SDG No.:

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

Calibration Start Date: 11/23/2020 12:45 Calibration End Date: 11/23/2020 14:53 Calibration ID: 16044

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								
cis-1,3-Dichloropropene	0.4116 0.4774	0.4299 0.4721	0.4439	0.4343	0.4648	Ave		0.4477			0.2000	5.5		20.0			
4-Methyl-2-pentanone (MIBK)	10.766 11.306	11.306 11.412	11.819	11.192	11.602	Ave		11.343			0.1000	2.9		20.0			
Toluene	1.1381 1.0799	1.1173 1.0466	1.1002	1.0592	1.0913	Ave		1.0904			0.4000	2.9		20.0			
trans-1,3-Dichloropropene	0.4238 0.5046	0.4609 0.4964	0.4495	0.4654	0.4948	Ave		0.4707			0.1000	6.2		20.0			
Ethyl methacrylate	0.3392 0.4294	0.3709 0.4240	0.3809	0.3871	0.4260	Ave		0.3939				8.6		20.0			
1,1,2-Trichloroethane	0.2992 0.2946	0.2884 0.2862	0.2908	0.2832	0.2945	Ave		0.2910			0.1000	1.9		20.0			
Tetrachloroethene	0.5352 0.5301	0.5359 0.5162	0.5278	0.5096	0.5399	Ave		0.5278			0.2000	2.1		20.0			
1,3-Dichloropropane	0.4974 0.5093	0.4881 0.4889	0.4982	0.4891	0.5089	Ave		0.4971				1.8		20.0			
2-Hexanone	6.8039 8.1616	7.3765 8.0901	8.0113	7.7935	8.0511	Ave		7.7554			0.1000	6.4		20.0			
Dibromochloromethane	0.3529 0.3809	0.3471 0.3797	0.3600	0.3574	0.3809	Ave		0.3656				4.0		20.0			
1,2-Dibromoethane (EDB)	0.2742 0.2883	0.2652 0.2818	0.2825	0.2713	0.2876	Ave		0.2787			0.1000	3.1		20.0			
1-Chlorohexane	0.6943 0.6283	0.6314 0.6164	0.6209	0.6022	0.6327	Ave		0.6323				4.6		20.0			
Chlorobenzene	1.2281 1.2035	1.2296 1.1689	1.2157	1.1736	1.2184	Ave		1.2054			0.5000	2.1		20.0			
1,1,1,2-Tetrachloroethane	0.4080 0.4350	0.4012 0.4218	0.4207	0.4108	0.4324	Ave		0.4185				3.0		20.0			
Ethylbenzene	2.0768 2.1349	2.1331 2.0403	2.1324	2.0730	2.1505	Ave		2.1059			0.1000	2.0		20.0			
m&p-Xylene	0.8220 0.8424	0.8237 0.8162	0.8372	0.8273	0.8495	Ave		0.8312			0.1000	1.5		20.0			
o-Xylene	0.7726 0.8307	0.8015 0.8090	0.8137	0.7970	0.8309	Ave		0.8079			0.3000	2.5		20.0			
Styrene	1.2122 1.3553	1.2338 1.3195	1.2992	1.2811	1.3521	Ave		1.2933			0.3000	4.3		20.0			
Bromoform	0.1988 0.2394	0.2109 0.2414	0.2107	0.2155	0.2300	Ave		0.2210			0.1000	7.3		20.0			
Isopropylbenzene	2.0663 2.2066	2.1292 2.1070	2.1515	2.1354	2.2254	Ave		2.1459			0.1000	2.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 69397

SDG No.:

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

Calibration Start Date: 11/23/2020 12:45 Calibration End Date: 11/23/2020 14:53 Calibration ID: 16044

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								
1,1,2,2-Tetrachloroethane	0.6359 0.6805	0.6321 0.6597	0.6447	0.6359	0.6820	Ave		0.6530			0.3000	3.3		20.0			
Bromobenzene	0.8840 0.9107	0.8918 0.8992	0.9136	0.8848	0.9189	Ave		0.9004				1.6		20.0			
trans-1,4-Dichloro-2-butene	3.2721 4.0130	3.5120 4.1257	3.7140	3.5871	3.8147	Ave		3.7198				7.9		20.0			
1,2,3-Trichloropropane	0.1902 0.1814	0.1703 0.1758	0.1796	0.1742	0.1827	Ave		0.1792				3.6		20.0			
N-Propylbenzene	4.3339 4.5240	4.4448 4.2406	4.4706	4.3419	4.5335	Ave		4.4128				2.5		20.0			
2-Chlorotoluene	0.8901 0.9152	0.8872 0.8914	0.9197	0.8868	0.9256	Ave		0.9023				1.9		20.0			
1,3,5-Trimethylbenzene	3.0102 3.2697	3.1536 3.1368	3.1716	3.1018	3.2493	Ave		3.1562				2.8		20.0			
4-Chlorotoluene	0.8953 0.9316	0.8948 0.9055	0.9436	0.8819	0.9256	Ave		0.9112				2.5		20.0			
tert-Butylbenzene	0.7284 0.7354	0.6826 0.7175	0.7184	0.6792	0.7288	Ave		0.7129				3.2		20.0			
Pentachloroethane	0.4880 0.6069	0.5450 0.5912	0.5569	0.5792	0.5875	Ave		0.5650				7.1		20.0			
1,2,4-Trimethylbenzene	2.9984 3.3452	3.1735 3.1936	3.2564	3.1604	3.3399	Ave		3.2096				3.7		20.0			
sec-Butylbenzene	3.9871 4.3064	4.0643 4.0853	4.1669	4.0751	4.2908	Ave		4.1394				2.9		20.0			
1,3-Dichlorobenzene	1.8457 1.8430	1.7877 1.8053	1.8138	1.7659	1.8315	Ave		1.8133			0.6000	1.6		20.0			
p-Isopropyltoluene	3.2730 3.6981	3.4737 3.5470	3.5189	3.5132	3.6826	Ave		3.5295				4.0		20.0			
1,4-Dichlorobenzene	1.8404 1.8397	1.7863 1.7954	1.8310	1.7595	1.8366	Ave		1.8127			0.5000	1.8		20.0			
1,2,3-Trimethylbenzene	1.4231 1.4415	1.3869 1.3941	1.4342	1.4454	1.4414	Ave		1.4238				1.7		20.0			
Benzyl chloride	0.1886 0.2884	0.2109 0.2925	0.2319	0.2491	0.2665	Ave		0.2469				15.8		20.0			
n-Butylbenzene	1.6444 1.8013	1.6762 1.7652	1.7140	1.6962	1.7688	Ave		1.7237				3.3		20.0			
1,2-Dichlorobenzene	1.6592 1.6859	1.6311 1.6263	1.7008	1.6003	1.6743	Ave		1.6540			0.4000	2.2		20.0			
1,2-Dibromo-3-Chloropropane	0.0884 0.1092	0.0957 0.1070	0.0988	0.0961	0.1066	Ave		0.1003			0.0500	7.6		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.: 410-30627-1 Analy Batch No.: 69397

SDG No.:

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

Calibration Start Date: 11/23/2020 12:45 Calibration End Date: 11/23/2020 14:53 Calibration ID: 16044

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								
1,3,5-Trichlorobenzene	1.2569 1.3750	1.2893 1.3467	1.2786	1.2588	1.3372	Ave		1.3061				3.6		20.0			
1,2,4-Trichlorobenzene	1.0255 1.1703	1.0502 1.1316	1.0568	1.0419	1.1263	Ave		1.0861			0.2000	5.1		20.0			
Hexachlorobutadiene	0.4940 0.4716	0.4744 0.4779	0.4669	0.4527	0.4685	Ave		0.4723				2.6		20.0			
Naphthalene	1.9068 2.1982	1.9274 2.0411	1.9586	2.0221	2.1536	Ave		2.0297				5.5		20.0			
1,2,3-Trichlorobenzene	0.9020 0.9970	0.8999 0.9398	0.9266	0.9202	0.9750	Ave		0.9372				3.9		20.0			
Dibromofluoromethane (Surr)	0.2464 0.2458	0.2477 0.2445	0.2490	0.2468	0.2481	Ave		0.2469				0.6		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0495 0.0501	0.0498 0.0499	0.0493	0.0497	0.0501	Ave		0.0498				0.6		20.0			
Toluene-d8 (Surr)	1.3117 1.2971	1.3204 1.2778	1.3114	1.3104	1.3126	Ave		1.3059				1.1		20.0			
4-Bromofluorobenzene (Surr)	0.4831 0.4774	0.4866 0.4818	0.4852	0.4849	0.4864	Ave		0.4836				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.: 410-30627-1 Analy Batch No.: 69397

SDG No.:

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

Calibration Start Date: 11/23/2020 12:45 Calibration End Date: 11/23/2020 14:53 Calibration ID: 16044

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-69397/9	IN23I07.D
Level 2	IC 410-69397/8	IN23I06.D
Level 3	IC 410-69397/7	IN23I05.D
Level 4	IC 410-69397/6	IN23I04.D
Level 5	IC 410-69397/5	IN23I03.D
Level 6	ICIS 410-69397/4	IN23I02.D
Level 7	IC 410-69397/3	IN23I01.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	14289 762848	34344 1853609	69362	137035	362905	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	17096 847456	41148 2031747	83265	166854	403049	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	17464 655274	38419 1538926	72377	129463	336874	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	15824 781821	36555 1896588	75517	154985	378321	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	11310 560203	28022 1339972	55449	113059	268205	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	9848 476273	22787 1151471	47287	94172	229528	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	21416 1068389	51472 2570362	107260	212826	515898	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	21060 1002094	49221 2406078	97236	194532	488244	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	8629 461858	22487 1112739	43027	88826	219835	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 123a	FB	Ave	14313 714488	35000 1713909	68727	131936	347378	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd10	Ave	69971 3743531	175165 8955401	356505	701877	1828205	10.0 500	25.0 1250	50.0	100	250
1,1-Dichloroethene	FB	Ave	10648 554501	26846 1331438	53597	102917	267271	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBAd10	Ave	20352 854846	46105 2019299	89478	171065	431846	2.00 100	5.00 250	10.0	20.0	50.0
Freon 113	FB	Ave	11156 592097	28017 1443706	56328	104592	291222	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl iodide	FB	Ave	20453	52202	104837	202587	522756	0.200	0.500	1.00	2.00	5.00

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 69397

SDG No.:

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

Calibration Start Date: 11/23/2020 12:45 Calibration End Date: 11/23/2020 14:53 Calibration ID: 16044

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
			1087214	2631223				10.0	25.0			
Carbon disulfide	FB	Ave	33150 1577401	77344 3843896	153230	292763	766074	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd10	Ave	4217 246609	12227 680563	23815	49588	120524	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	16032 850587	40080 2045690	79611	164133	400038	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	12391 601040	30241 1436509	59944	113711	289040	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd10	Ave	14466 716161	32201 1599739	71679	142185	360171	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd10	Ave	11416 608812	28136 1486195	55793	115701	298145	1.00 50.0	2.50 125	5.00	10.0	25.0
Methyl tert-butyl ether	FB	Ave	28583 1497268	69855 3604322	140981	280757	719156	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	11853 612688	29336 1470445	59305	113298	296112	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	15492 887151	37410 2161387	77187	150330	429931	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	20953 1110105	53737 2676667	106846	206444	533155	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	34785 1843818	87812 4448853	175266	342003	883301	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	16705 906198	42465 2187566	83699	165305	434378	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	32027 1769941	81982 4231563	164798	325561	840400	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone (MEK)	TBAd10	Ave	28681 1561053	70495 3824682	150873	293727	758501	2.00 100	5.00 250	10.0	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	14079 706462	35111 1695323	67080	131926	339325	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	16623 911060	42478 2206838	84205	164796	433655	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Propionitrile	TBAd10	Ave	17434 863833	42851 2193579	86963	170750	450559	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd10	Ave	28963	74760	153916	298659	784279	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.: 410-30627-1 Analy Batch No.: 69397

SDG No.:

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

Calibration Start Date: 11/23/2020 12:45 Calibration End Date: 11/23/2020 14:53 Calibration ID: 16044

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
			1616918	3946564				100	250			
Bromochloromethane	FB	Ave	5808 310784	14772 753858	30494	61198	152825	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd10	Ave	8531 470375	22107 1156304	44982	89453	232086	2.00 100	5.00 250	10.0	20.0	50.0
Chloroform	FB	Ave	21135 1083255	53281 2598659	105267	203027	523866	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	18731 981285	47326 2386922	93768	182755	471715	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	18461 1041428	47588 2543910	97796	186444	506440	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	16767 887161	41561 2168824	82099	162919	430415	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	16151 882438	40536 2155973	83811	164045	424728	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	TBAd10	Ave	11668 551150	25076 1383991	56751	114540	294140	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	50855 2625721	127834 6348099	255028	490160	1258244	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	13237 629666	31335 1528196	62354	118739	297074	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	28945 1627872	74955 3929679	149782	295847	780037	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	16047 873361	38350 2141721	78839	152765	414595	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butanol	TBAd10	Ave	17858 1230757	49414 2809489	100598	211478	565829	20.0 1000	50.0 2500	100	200	500
Trichloroethene	FB	Ave	13273 688361	33485 1681778	66585	126694	330514	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	20100 1163763	50862 2830707	107810	208498	562317	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	12009 656764	31387 1596660	61945	121570	310291	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl methacrylate	TBAd10	Ave	4987 318254	13518 780437	27597	55899	148760	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBAd10	Ave	+++++ 148345	7023 318662	14289	28458	65884	+++++ 500	25.0 1250	50.0	100	250

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 69397

SDG No.:

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

Calibration Start Date: 11/23/2020 12:45 Calibration End Date: 11/23/2020 14:53 Calibration ID: 16044

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
Dibromomethane	FB	Ave	5679 306542	15063 754336	29139	57091	147921	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromodichloromethane	FB	Ave	14820 795099	36362 1948970	73650	142334	374289	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBAd10	Ave	12963 778258	33733 1950037	70105	140261	374854	2.00 100	5.00 250	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	16306 986321	42882 2421802	88193	171644	459853	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone (MIBK)	TBAd10	Ave	67829 3947176	177180 9588763	367338	734468	1948125	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd5	Ave	33538 1696057	83094 4131675	163309	313899	811376	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd5	Ave	12488 792406	34273 1959641	66719	137933	367862	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd5	Ave	9995 674454	27584 1673846	56537	114724	316728	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2-Trichloroethane	CBZd5	Ave	8818 462694	21447 1129761	43173	83917	218945	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd5	Ave	15772 832486	39857 2037894	78353	151027	401439	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd5	Ave	14656 799899	36303 1930028	73951	144948	378398	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBAd10	Ave	42866 2849426	115600 6797458	248990	511453	1351932	2.00 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd5	Ave	10400 598262	25811 1498853	53438	105930	283207	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane (EDB)	CBZd5	Ave	8081 452788	19726 1112590	41931	80415	213803	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd5	Ave	20461 986757	46957 2433335	92173	178481	470375	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chlorobenzene	CBZd5	Ave	36190 1890048	91441 4614383	180463	347796	905888	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd5	Ave	12023 683105	29836 1665026	62455	121733	321476	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd5	Ave	61200 3352863	158639 8054835	316536	614346	1598931	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd5	Ave	48448 2646088	122512 6444517	248538	490346	1263230	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd5	Ave	22768	59608	120780	236196	617748	0.200	0.500	1.00	2.00	5.00

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 69397

SDG No.:

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

Calibration Start Date: 11/23/2020 12:45 Calibration End Date: 11/23/2020 14:53 Calibration ID: 16044

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
			1304564	3193696				10.0	25.0			
Styrene	CBZd5	Ave	35720 2128541	91755 5209128	192855	379665	1005274	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd5	Ave	5858 376053	15681 952842	31282	63856	171030	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd5	Ave	60889 3465538	158348 8318129	319375	632848	1654564	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd4	Ave	10791 606886	27114 1482521	54415	107901	288446	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd4	Ave	15002 812183	38254 2020744	77108	150137	388628	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	TBAd10	Ave	20615 1401018	55037 3466483	115432	235404	640566	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd4	Ave	3227 161724	7306 395151	15158	29565	77284	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd4	Ave	73549 4034433	190665 9529514	377314	736780	1917309	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd4	Ave	15105 816131	38057 2003162	77621	150481	391437	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd4	Ave	51085 2915864	135280 7049093	267681	526346	1374177	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd4	Ave	15194 830797	38382 2034840	79642	149649	391457	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd4	Ave	12362 655812	29282 1612321	60636	115253	308232	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Pentachloroethane	DCBd4	Ave	8281 541224	23377 1328610	46998	98293	248476	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd4	Ave	50885 2983176	136133 7176599	274837	536289	1412501	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd4	Ave	67663 3840352	174344 9180439	351677	691511	1814658	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichlorobenzene	DCBd4	Ave	31322 1643503	76688 4056868	153078	299667	774588	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd4	Ave	55545 3297888	149012 7970833	296994	596157	1557438	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd4	Ave	31232 1640637	76626 4034569	154536	298581	776711	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd4	Ave	24151 1285454	59495 3132852	121041	245278	609602	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd4	Ave	3201 257164	9048 657275	19573	42275	112713	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.: 410-30627-1 Analy Batch No.: 69397

SDG No.:

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

Calibration Start Date: 11/23/2020 12:45 Calibration End Date: 11/23/2020 14:53 Calibration ID: 16044

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-Butylbenzene	DCBd4	Ave	27906 1606360	71903 3966634	144659	287834	748043	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd4	Ave	28158 1503421	69967 3654497	143545	271564	708104	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	1501 97400	4105 240531	8336	16302	45090	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd4	Ave	21330 1226210	55307 3026395	107909	213605	565506	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trichlorobenzene	DCBd4	Ave	17403 1043686	45049 2542954	89195	176796	476320	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd4	Ave	8383 420536	20349 1074015	39405	76823	198152	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd4	Ave	32359 1960339	82677 4586641	165305	343142	910778	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd4	Ave	15307 889058	38602 2111946	78201	156150	412357	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	488089 507861	494112 501720	494666	487807	490996	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	98119 103491	99445 102305	97982	98235	99154	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd5	Ave	1932681 2037192	1963991 2017789	1946658	1941813	1951818	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd5	Ave	711806 749783	723803 760845	720224	718478	723239	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.: 410-30627-1 Analy Batch No.: 69397

SDG No.:

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

Calibration Start Date: 11/23/2020 12:45 Calibration End Date: 11/23/2020 14:53 Calibration ID: 16044

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-69397/9	IN23I07.D
Level 2	IC 410-69397/8	IN23I06.D
Level 3	IC 410-69397/7	IN23I05.D
Level 4	IC 410-69397/6	IN23I04.D
Level 5	IC 410-69397/5	IN23I03.D
Level 6	ICIS 410-69397/4	IN23I02.D
Level 7	IC 410-69397/3	IN23I01.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	1.1						30					
Chloromethane	4.2						30					
1,3-Butadiene	24.6						30					
Vinyl chloride	4.8						30					
Bromomethane	3.3						30					
Chloroethane	6.1						30					
Dichlorofluoromethane	3.0						30					
Trichlorofluoromethane	7.7						30					
Ethyl ether	-1.5						30					
Freon 123a	4.4						30					
Acrolein	1.3						30					
1,1-Dichloroethene	0.8						30					
Acetone	18.5						30					
Freon 113	-0.1						30					
Methyl iodide	-0.9						30					

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 69397

SDG No.:

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

Calibration Start Date: 11/23/2020 12:45 Calibration End Date: 11/23/2020 14:53 Calibration ID: 16044

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
Carbon disulfide	8.2						30					
Methyl acetate	-10.0						30					
Allyl chloride	-0.2						30					
Methylene Chloride	5.8						30					
t-Butyl alcohol	7.7						30					
Acrylonitrile	1.8						30					
Methyl tert-butyl ether	1.1						30					
trans-1,2-Dichloroethene	1.6						30					
n-Hexane	-2.9						30					
1,1-Dichloroethane	-0.6						30					
di-Isopropyl ether	-0.2						30					
2-Chloro-1,3-butadiene	-1.3						30					
Ethyl t-butyl ether	-2.7						30					
2-Butanone (MEK)	-0.2						30					
cis-1,2-Dichloroethene	3.9						30					
2,2-Dichloropropane	-2.0						30					
Propionitrile	3.8						30					
Methacrylonitrile	-2.1						30					
Bromochloromethane	-2.7						30					
Tetrahydrofuran	-2.1						30					
Chloroform	1.7						30					

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 69397

SDG No.:

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

Calibration Start Date: 11/23/2020 12:45 Calibration End Date: 11/23/2020 14:53 Calibration ID: 16044

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,1,1-Trichloroethane	0.3						30					
Cyclohexane	-4.6						30					
Carbon tetrachloride	0.3						30					
1,1-Dichloropropene	-2.5						30					
Isobutyl alcohol	8.0						30					
Benzene	1.3						30					
1,2-Dichloroethane	8.0						30					
t-Amyl methyl ether	-4.0						30					
n-Heptane	0.1						30					
n-Butanol	-12.5						30					
Trichloroethene	1.0						30					
Methylcyclohexane	-5.8						30					
1,2-Dichloropropane	-2.7						30					
Methyl methacrylate	-9.5						30					
1,4-Dioxane	+++++	5.9						30				
Dibromomethane	-2.6						30					
Bromodichloromethane	0.2						30					
2-Nitropropane	-6.4						30					
cis-1,3-Dichloropropene	-8.1						30					
4-Methyl-2-pentanone (MIBK)	-5.1						30					
Toluene	4.4						30					

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 69397

SDG No.:

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

Calibration Start Date: 11/23/2020 12:45 Calibration End Date: 11/23/2020 14:53 Calibration ID: 16044

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
trans-1,3-Dichloropropene	-10.0						30					
Ethyl methacrylate	-13.9						30					
1,1,2-Trichloroethane	2.8						30					
Tetrachloroethene	1.4						30					
1,3-Dichloropropane	0.0						30					
2-Hexanone	-12.3						30					
Dibromochloromethane	-3.5						30					
1,2-Dibromoethane (EDB)	-1.6						30					
1-Chlorohexane	9.8						30					
Chlorobenzene	1.9						30					
1,1,1,2-Tetrachloroethane	-2.5						30					
Ethylbenzene	-1.4						30					
m&p-Xylene	-1.1						30					
o-Xylene	-4.4						30					
Styrene	-6.3						30					
Bromoform	-10.0						30					
Isopropylbenzene	-3.7						30					
1,1,2,2-Tetrachloroethane	-2.6						30					
Bromobenzene	-1.8						30					
trans-1,4-Dichloro-2-butene	-12.0						30					
1,2,3-Trichloropropane	6.1						30					

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 69397

SDG No.:

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

Calibration Start Date: 11/23/2020 12:45 Calibration End Date: 11/23/2020 14:53 Calibration ID: 16044

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
N-Propylbenzene	-1.8						30					
2-Chlorotoluene	-1.4						30					
1,3,5-Trimethylbenzene	-4.6						30					
4-Chlorotoluene	-1.7						30					
tert-Butylbenzene	2.2						30					
Pentachloroethane	-13.6						30					
1,2,4-Trimethylbenzene	-6.6						30					
sec-Butylbenzene	-3.7						30					
1,3-Dichlorobenzene	1.8						30					
p-Isopropyltoluene	-7.3						30					
1,4-Dichlorobenzene	1.5						30					
1,2,3-Trimethylbenzene	0.0						30					
Benzyl chloride	-23.6						30					
n-Butylbenzene	-4.6						30					
1,2-Dichlorobenzene	0.3						30					
1,2-Dibromo-3-Chloropropane	-11.8						30					
1,3,5-Trichlorobenzene	-3.8						30					
1,2,4-Trichlorobenzene	-5.6						30					
Hexachlorobutadiene	4.6						30					
Naphthalene	-6.1						30					
1,2,3-Trichlorobenzene	-3.8						30					

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1 Analy Batch No.: 69397

SDG No.:

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

Calibration Start Date: 11/23/2020 12:45 Calibration End Date: 11/23/2020 14:53 Calibration ID: 16044

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
Dibromofluoromethane (Surr)	-0.2						30					
1,2-Dichloroethane-d4 (Surr)	-0.5						30					
Toluene-d8 (Surr)	0.4						30					
4-Bromofluorobenzene (Surr)	-0.1						30					

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I01.D
Lims ID: IC std7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 23-Nov-2020 12:45:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0016280-003
Misc. Info.: IC STD7
Operator ID: dvv10203 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 23-Nov-2020 19:10:35 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: campbellme Date: 23-Nov-2020 18:24:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.983	1.977	0.006	99	1853609	25.0	25.3	M
4 Chloromethane	50	2.184	2.178	0.006	99	2031747	25.0	23.9	
6 Butadiene	39	2.294	2.288	0.006	90	1538926	25.0	21.2	
5 Vinyl chloride	62	2.306	2.300	0.006	98	1896588	25.0	24.2	
7 Bromomethane	94	2.629	2.623	0.006	90	1339972	25.0	23.6	
8 Chloroethane	64	2.709	2.702	0.007	100	1151471	25.0	23.9	
9 Dichlorofluoromethane	67	2.953	2.946	0.006	97	2570362	25.0	23.9	
10 Trichlorofluoromethane	101	3.026	3.019	0.007	98	2406078	25.0	23.8	
11 Ethyl ether	59	3.270	3.263	0.007	90	1112739	25.0	24.5	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.355	3.343	0.012	91	1713909	25.0	24.1	
13 Acrolein	56	3.440	3.434	0.006	100	8955401	1250.0	1215.7	
14 1,1-Dichloroethene	96	3.580	3.574	0.006	97	1331438	25.0	24.3	
15 Acetone	43	3.611	3.611	0.000	100	2019299	250.0	220.4	
16 112TCTFE	101	3.623	3.617	0.006	89	1443706	25.0	25.0	
17 Iodomethane	142	3.782	3.775	0.007	98	2631223	25.0	24.6	
18 Ethyl bromide	108	3.812	3.800	0.012	98	1210431	25.0	24.3	
19 Carbon disulfide	76	3.891	3.879	0.012	98	3843896	25.0	24.2	
21 Methyl acetate	43	4.044	4.038	0.006	97	680563	25.0	27.2	
22 3-Chloro-1-propene	41	4.062	4.056	0.006	93	2045690	25.0	24.6	
23 Methylene Chloride	84	4.257	4.251	0.006	90	1436509	25.0	23.7	
* 24 t-Butyl alcohol-d10 (IS)	65	4.263	4.263	0.000	0	168044	50.0	50.0	M
25 2-Methyl-2-propanol	59	4.397	4.391	0.006	100	1599739	500.0	446.5	
26 Acrylonitrile	53	4.599	4.592	0.007	98	1486195	125.0	124.3	
27 Methyl tert-butyl ether	73	4.666	4.659	0.007	94	3604322	25.0	24.6	
28 trans-1,2-Dichloroethene	96	4.678	4.672	0.006	99	1470445	25.0	24.3	
29 Hexane	57	5.098	5.098	0.000	89	2161387	25.0	26.1	
31 1,1-Dichloroethane	63	5.336	5.336	0.000	96	2676667	25.0	24.5	
32 Isopropyl ether	45	5.391	5.391	0.000	94	4448853	25.0	24.6	
33 2-Chloro-1,3-butadiene	53	5.446	5.440	0.006	89	2187566	25.0	25.0	
34 Tert-butyl ethyl ether	59	5.921	5.921	0.000	97	4231563	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	6.141	6.135	0.006	99	3824682	250.0	249.6	
S 35 1,2-Dichloroethene, Total	100				0			48.5	
37 cis-1,2-Dichloroethene	96	6.165	6.165	0.000	81	1695323	25.0	24.2	
38 2,2-Dichloropropane	77	6.184	6.177	0.007	85	2206838	25.0	25.1	
40 Propionitrile	54	6.220	6.220	0.000	99	2193579	500.0	489.4	
42 Methacrylonitrile	67	6.440	6.433	0.007	89	3946564	250.0	250.1	
43 Chlorobromomethane	128	6.494	6.494	0.000	89	753858	25.0	24.4	
44 Tetrahydrofuran	71	6.507	6.507	0.000	84	1156304	250.0	248.8	
45 Chloroform	83	6.641	6.641	0.000	92	2598659	25.0	24.1	
$ 46 Dibromofluoromethane (Surr)	113	6.860	6.854	0.006	94	501720	10.0	9.90	
47 1,1,1-Trichloroethane	97	6.872	6.866	0.006	98	2386922	25.0	24.7	
48 Cyclohexane	56	6.970	6.970	0.000	88	2543910	25.0	25.4	
50 Carbon tetrachloride	117	7.080	7.080	0.000	96	2168824	25.0	25.1	
51 1,1-Dichloropropene	75	7.080	7.080	0.000	98	2155973	25.0	25.1	
52 Isobutyl alcohol	41	7.232	7.226	0.006	96	1383991	1250.0	1201.0	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.318	7.311	0.007	0	102305	10.0	10.0	
54 Benzene	78	7.342	7.342	0.000	95	6348099	25.0	24.4	
56 1,2-Dichloroethane	62	7.415	7.415	0.000	97	1528196	25.0	24.1	
57 Tert-amyl methyl ether	73	7.531	7.531	0.000	99	3929679	25.0	25.2	
* 58 Fluorobenzene (IS)	96	7.744	7.744	0.000	100	2051897	10.0	10.0	
59 n-Heptane	43	7.756	7.750	0.006	89	2141721	25.0	25.8	
60 n-Butanol	56	8.098	8.098	0.000	85	2809489	2500.0	2579.4	
61 Trichloroethene	95	8.220	8.220	0.000	97	1681778	25.0	24.7	
62 Methylcyclohexane	83	8.531	8.525	0.007	94	2830707	25.0	25.6	
63 1,2-Dichloropropane	63	8.555	8.549	0.006	84	1596660	25.0	25.0	
64 Methyl methacrylate	69	8.628	8.634	-0.006	88	780437	25.0	26.6	
65 1,4-Dioxane	88	8.640	8.640	0.000	70	318662	1250.0	1120.7	M
66 Dibromomethane	93	8.665	8.659	0.006	95	754336	25.0	25.0	
68 Dichlorobromomethane	83	8.896	8.896	0.000	99	1948970	25.0	25.4	
69 2-Nitropropane	41	9.165	9.159	0.006	96	1950037	250.0	264.0	
72 1-Bromo-2-chloroethane	63	9.287	9.287	0.000	98	1655992	25.0	25.2	
73 cis-1,3-Dichloropropene	75	9.439	9.439	0.000	98	2421802	25.0	26.4	
74 4-Methyl-2-pentanone (MIBK)	43	9.604	9.604	0.000	94	9588763	250.0	251.5	
$ 75 Toluene-d8 (Surr)	98	9.744	9.744	0.000	93	2017789	10.0	9.78	
76 Toluene	92	9.817	9.817	0.000	99	4131675	25.0	24.0	
S 77 1,3-Dichloropropene, Total	100				0			52.7	
78 trans-1,3-Dichloropropene	75	10.073	10.073	0.000	90	1959641	25.0	26.4	
79 Ethyl methacrylate	69	10.128	10.134	-0.006	87	1673846	25.0	26.9	
80 1,1,2-Trichloroethane	97	10.274	10.274	0.000	89	1129761	25.0	24.6	
81 Tetrachloroethene	166	10.366	10.366	0.000	98	2037894	25.0	24.4	
82 1,3-Dichloropropane	76	10.439	10.439	0.000	87	1930028	25.0	24.6	
83 2-Hexanone	43	10.482	10.481	0.001	95	6797458	250.0	260.8	
85 Chlorodibromomethane	129	10.652	10.652	0.000	89	1498853	25.0	26.0	
86 Ethylene Dibromide	107	10.762	10.762	0.000	98	1112590	25.0	25.3	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	0.000	84	1579118	10.0	10.0	
88 1-Chlorohexane	91	11.195	11.195	0.000	95	2433335	25.0	24.4	
90 Chlorobenzene	112	11.219	11.213	0.006	96	4614383	25.0	24.2	
S 89 Xylenes, Total	106				0			74.1	
92 Ethylbenzene	91	11.298	11.298	0.000	98	8054835	25.0	24.2	
91 1,1,1,2-Tetrachloroethane	131	11.298	11.298	0.000	97	1665026	25.0	25.2	
93 m-Xylene & p-Xylene	106	11.414	11.414	0.000	99	6444517	50.0	49.1	
94 o-Xylene	106	11.743	11.743	0.000	95	3193696	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	5209128	25.0	25.5	
96 Bromoform	173	11.914	11.920	-0.006	98	952842	25.0	27.3	
97 Isopropylbenzene	105	12.042	12.042	0.000	95	8318129	25.0	24.5	
$ 100 4-Bromofluorobenzene (Surr)	95	12.189	12.188	0.000	95	760845	10.0	9.96	
101 1,1,2,2-Tetrachloroethane	83	12.286	12.286	0.000	92	1482521	25.0	25.3	
102 Bromobenzene	156	12.304	12.304	0.000	96	2020744	25.0	25.0	
103 trans-1,4-Dichloro-2-butene	53	12.310	12.310	0.000	90	3466483	250.0	277.3	
104 1,2,3-Trichloropropane	110	12.335	12.335	0.000	82	395151	25.0	24.5	
105 N-Propylbenzene	91	12.371	12.371	0.000	98	9529514	25.0	24.0	
106 2-Chlorotoluene	126	12.451	12.451	0.000	98	2003162	25.0	24.7	
107 1,3,5-Trimethylbenzene	105	12.506	12.505	0.001	94	7049093	25.0	24.8	
108 4-Chlorotoluene	126	12.542	12.542	0.000	96	2034840	25.0	24.8	
109 tert-Butylbenzene	134	12.749	12.749	0.000	93	1612321	25.0	25.2	
110 Pentachloroethane	167	12.780	12.780	0.000	93	1328610	25.0	26.2	
111 1,2,4-Trimethylbenzene	105	12.786	12.792	-0.006	96	7176599	25.0	24.9	
112 sec-Butylbenzene	105	12.914	12.914	0.000	94	9180439	25.0	24.7	
113 1,3-Dichlorobenzene	146	13.012	13.011	0.001	98	4056868	25.0	24.9	
114 4-Isopropyltoluene	119	13.018	13.018	0.000	97	7970833	25.0	25.1	
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	92	898877	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.085	13.085	0.000	95	4034569	25.0	24.8	
117 1,2,3-Trimethylbenzene	120	13.097	13.091	0.006	98	3132852	25.0	24.5	
118 Benzyl chloride	126	13.158	13.158	0.000	98	657275	25.0	29.6	
119 n-Butylbenzene	92	13.310	13.310	0.000	97	3966634	25.0	25.6	
120 1,2-Dichlorobenzene	146	13.341	13.341	0.000	99	3654497	25.0	24.6	
122 1,2-Dibromo-3-Chloropropane	155	13.883	13.883	0.000	91	240531	25.0	26.7	
123 1,3,5-Trichlorobenzene	180	14.011	14.011	0.000	98	3026395	25.0	25.8	
124 1,2,4-Trichlorobenzene	180	14.432	14.432	0.000	94	2542954	25.0	26.0	
125 Hexachlorobutadiene	225	14.517	14.517	0.000	96	1074015	25.0	25.3	
126 Naphthalene	128	14.615	14.615	0.000	97	4586641	25.0	25.1	
127 1,2,3-Trichlorobenzene	180	14.755	14.755	0.000	96	2111946	25.0	25.1	
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	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00030	Amount Added: 25.00	Units: uL	
MSV_RV4GAS826_00096	Amount Added: 25.00	Units: uL	
MSV_RV4_826_00034	Amount Added: 25.00	Units: uL	
MSV_31_826ISS_00003	Amount Added: 5.00	Units: uL	Run Reagent

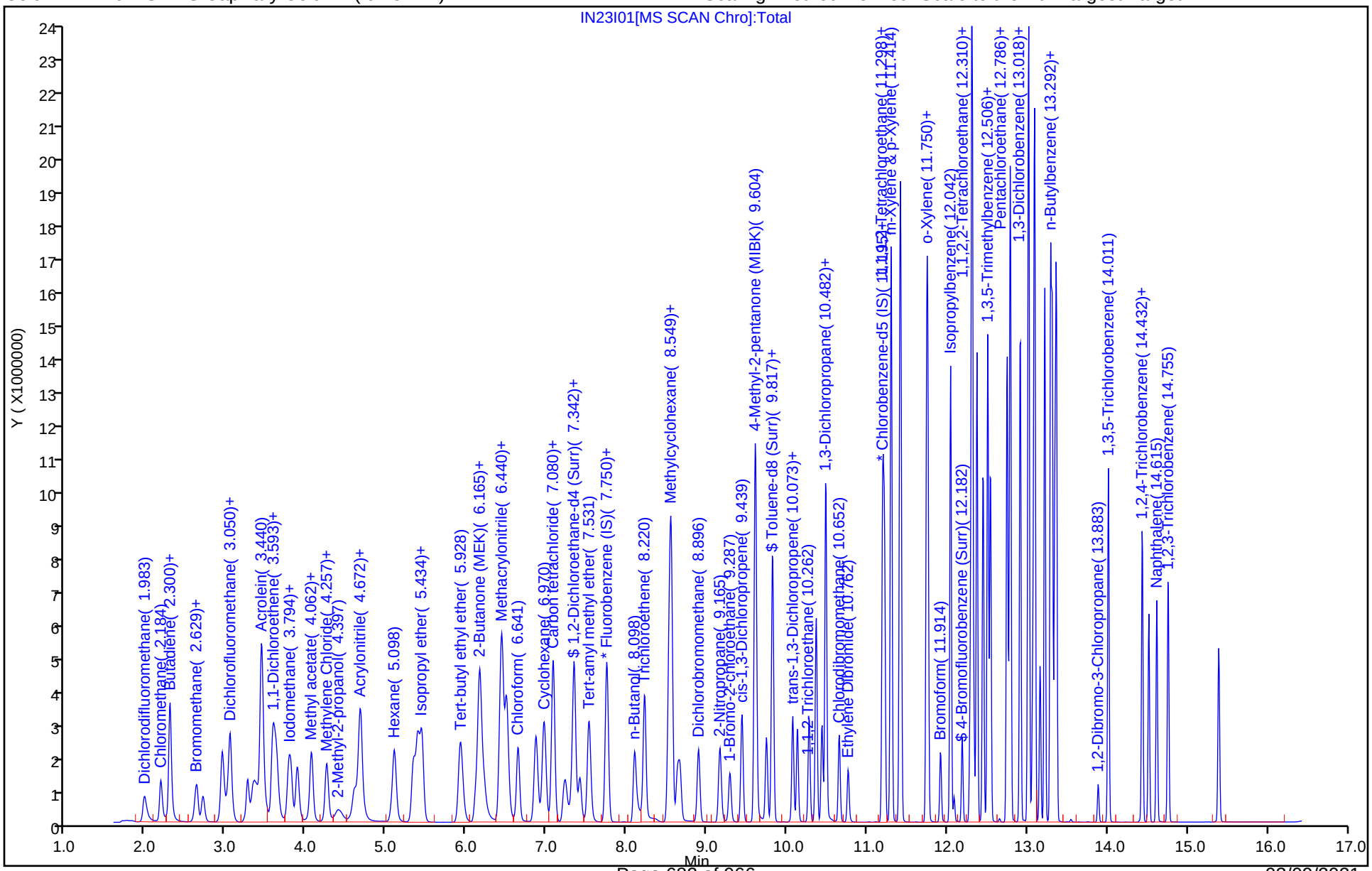
Report Date: 23-Nov-2020 19:10:36 Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I01.D

Injection Date:	23-Nov-2020 12:45:30	Instrument ID:	19930	Operator ID:	dvv10203
Lims ID:	IC std7			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: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

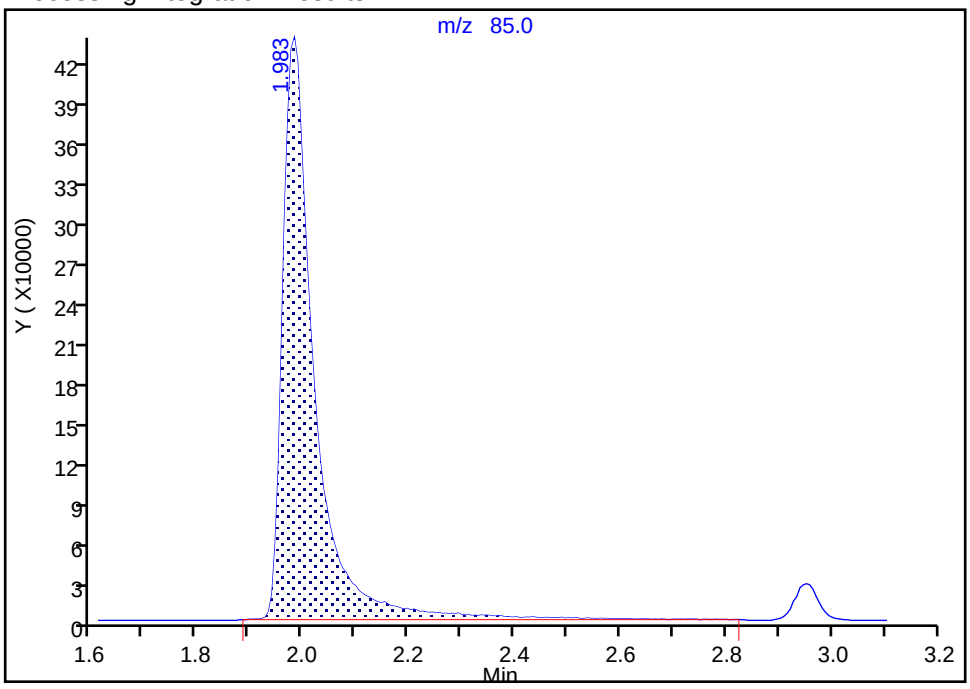
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I01.D				
Injection Date:	23-Nov-2020 12:45:30	Instrument ID:	19930		
Lims ID:	IC std7				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

1 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

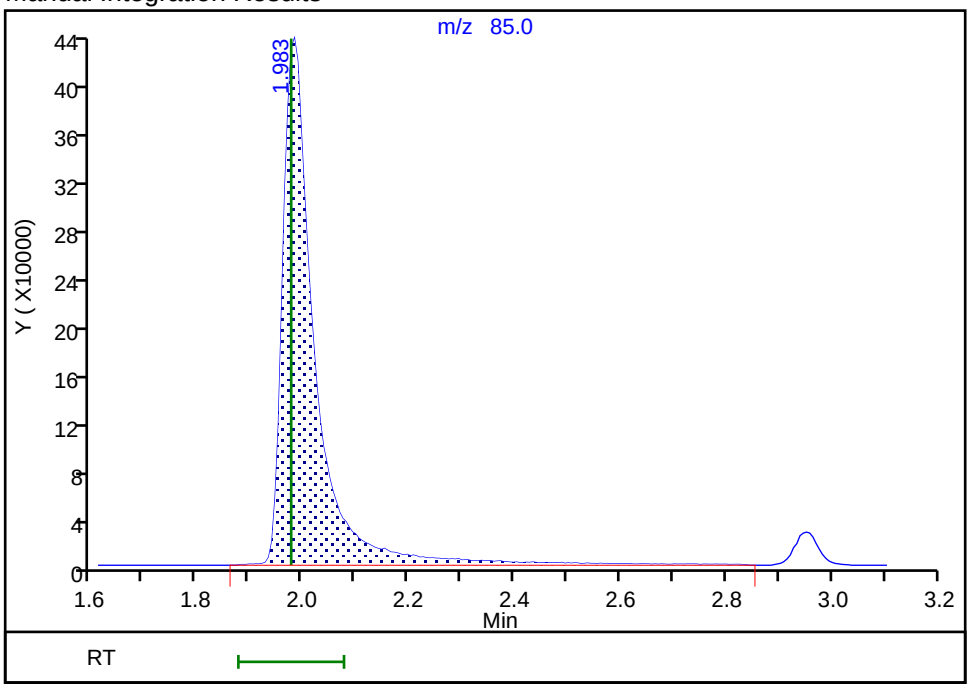
Processing Integration Results

RT: 1.98
Area: 1822259
Amount: 24.944995
Amount Units: ug/l



Manual Integration Results

RT: 1.98
Area: 1853609
Amount: 25.312074
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:24:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

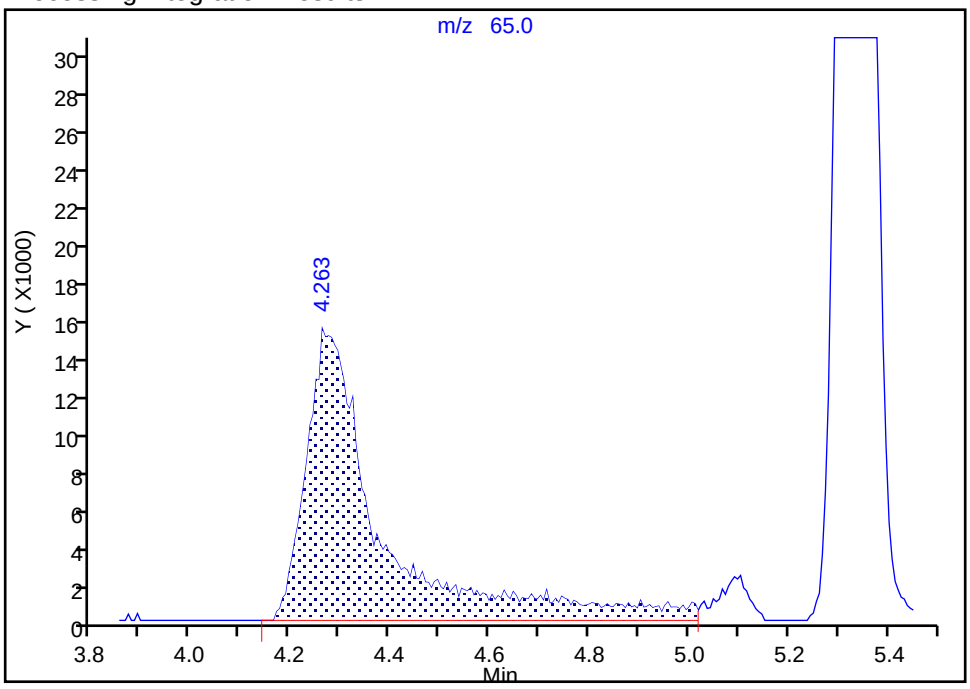
Data File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I01.D
Injection Date: 23-Nov-2020 12:45:30 Instrument ID: 19930
Lims ID: IC std7
Client ID:
Operator ID: dvv10203 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 24 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

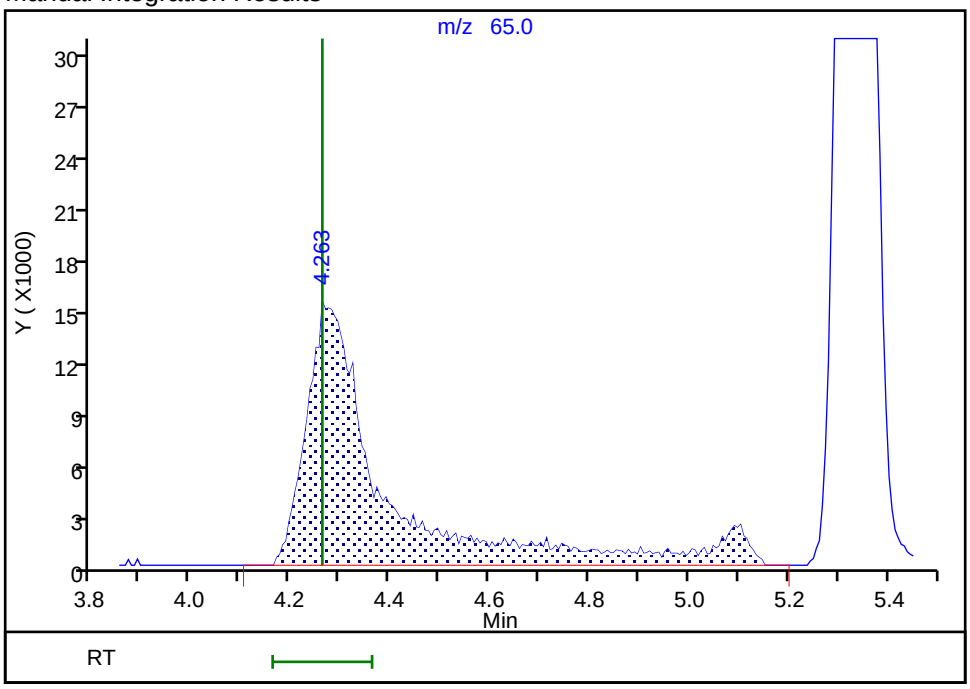
Processing Integration Results

RT: 4.26
Area: 158190
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.26
Area: 168044
Amount: 50.000000
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:45:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

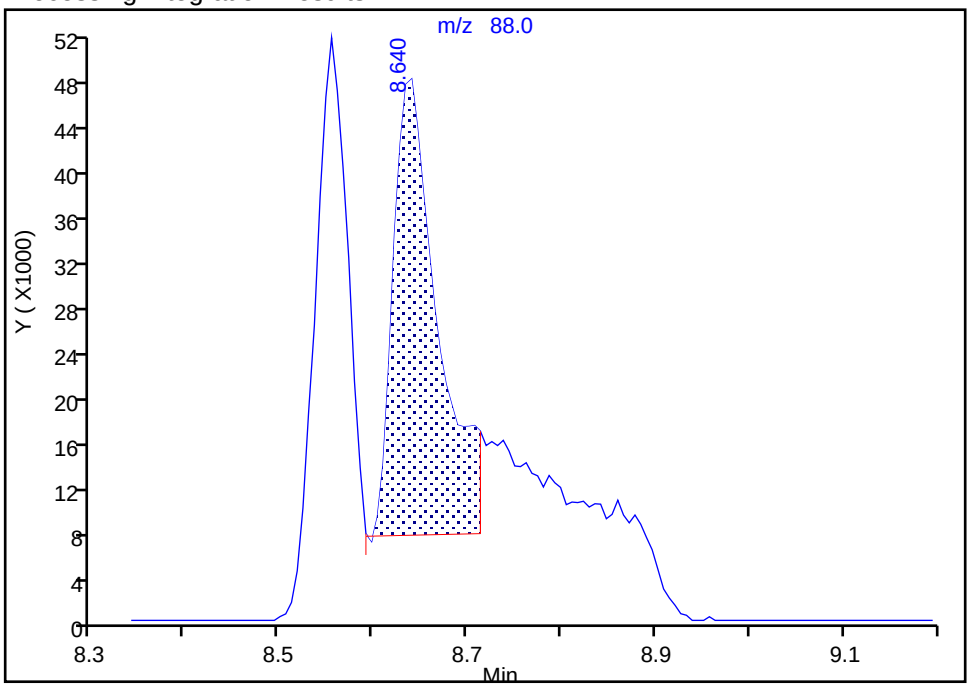
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I01.D				
Injection Date:	23-Nov-2020 12:45:30	Instrument ID:	19930		
Lims ID:	IC std7				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

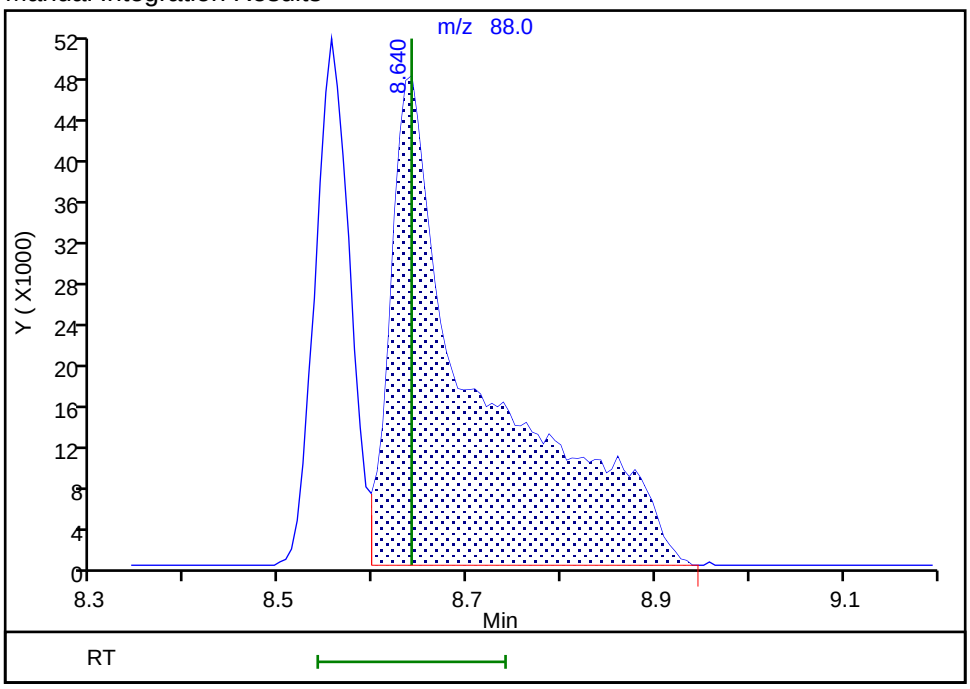
Processing Integration Results

RT: 8.64
Area: 133500
Amount: 587.6212
Amount Units: ug/l



Manual Integration Results

RT: 8.64
Area: 318662
Amount: 1120.7188
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:45:22

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\20201123-16280.b\IN23I02.D
Lims ID: ICIS - LG
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 23-Nov-2020 13:06:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0016280-004
Misc. Info.: ICIS - LG
Operator ID: dvv10203 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 23-Nov-2020 19:10:46 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: campbellme Date: 23-Nov-2020 18:29:34

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	1.977	0.000	99	762848	10.0	10.3	
4 Chloromethane	50	2.178	2.178	0.000	99	847456	10.0	9.91	
6 Butadiene	39	2.288	2.288	0.000	89	655274	10.0	8.97	
5 Vinyl chloride	62	2.300	2.300	0.000	98	781821	10.0	9.93	
7 Bromomethane	94	2.623	2.623	0.000	90	560203	10.0	9.81	
8 Chloroethane	64	2.702	2.702	0.000	99	476273	10.0	9.84	
9 Dichlorofluoromethane	67	2.946	2.946	0.000	97	1068389	10.0	9.85	
10 Trichlorofluoromethane	101	3.019	3.019	0.000	98	1002094	10.0	9.83	
11 Ethyl ether	59	3.263	3.263	0.000	89	461858	10.0	10.1	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.343	3.343	0.000	93	714488	10.0	10.0	
13 Acrolein	56	3.434	3.434	0.000	100	3743531	500.0	489.2	
14 1,1-Dichloroethene	96	3.574	3.574	0.000	97	554501	10.0	10.1	
15 Acetone	43	3.611	3.611	0.000	100	854846	100.0	89.8	M
16 112TCTFE	101	3.617	3.617	0.000	90	592097	10.0	10.2	
17 Iodomethane	142	3.775	3.775	0.000	98	1087214	10.0	10.1	
18 Ethyl bromide	108	3.800	3.800	0.000	98	500672	10.0	10.0	
19 Carbon disulfide	76	3.879	3.879	0.000	99	1577401	10.0	9.88	
21 Methyl acetate	43	4.038	4.038	0.000	97	246609	10.0	9.50	M
22 3-Chloro-1-propene	41	4.056	4.056	0.000	93	850587	10.0	10.2	
23 Methylene Chloride	84	4.251	4.251	0.000	90	601040	10.0	9.85	
* 24 t-Butyl alcohol-d10 (IS)	65	4.257	4.257	0.000	0	174562	50.0	50.0	M
25 2-Methyl-2-propanol	59	4.391	4.391	0.000	100	716161	200.0	192.4	
26 Acrylonitrile	53	4.592	4.592	0.000	99	608812	50.0	49.0	
27 Methyl tert-butyl ether	73	4.659	4.659	0.000	94	1497268	10.0	10.2	
28 trans-1,2-Dichloroethene	96	4.672	4.672	0.000	99	612688	10.0	10.1	
29 Hexane	57	5.098	5.098	0.000	89	887151	10.0	10.7	
31 1,1-Dichloroethane	63	5.336	5.336	0.000	96	1110105	10.0	10.1	
32 Isopropyl ether	45	5.391	5.391	0.000	95	1843818	10.0	10.1	
33 2-Chloro-1,3-butadiene	53	5.440	5.440	0.000	89	906198	10.0	10.3	
34 Tert-butyl ethyl ether	59	5.921	5.921	0.000	97	1769941	10.0	10.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.135	6.135	0.000	99	1561053	100.0	98.1	
37 cis-1,2-Dichloroethene	96	6.165	6.165	0.000	81	706462	10.0	10.0	
38 2,2-Dichloropropane	77	6.177	6.177	0.000	86	911060	10.0	10.3	
40 Propionitrile	54	6.220	6.220	0.000	99	863833	200.0	185.5	
42 Methacrylonitrile	67	6.433	6.433	0.000	89	1616918	100.0	98.6	
43 Chlorobromomethane	128	6.494	6.494	0.000	89	310784	10.0	9.98	
44 Tetrahydrofuran	71	6.507	6.507	0.000	84	470375	100.0	97.4	
45 Chloroform	83	6.641	6.641	0.000	92	1083255	10.0	10.0	
$ 46 Dibromofluoromethane (Surr)	113	6.854	6.854	0.000	94	507861	10.0	9.96	
47 1,1,1-Trichloroethane	97	6.866	6.866	0.000	98	981285	10.0	10.1	
48 Cyclohexane	56	6.970	6.970	0.000	88	1041428	10.0	10.3	
50 Carbon tetrachloride	117	7.080	7.080	0.000	97	887161	10.0	10.2	
51 1,1-Dichloropropene	75	7.080	7.080	0.000	98	882438	10.0	10.2	
52 Isobutyl alcohol	41	7.226	7.226	0.000	95	551150	500.0	460.4	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.311	7.311	0.000	0	103491	10.0	10.1	
54 Benzene	78	7.342	7.342	0.000	95	2625721	10.0	10.0	
56 1,2-Dichloroethane	62	7.415	7.415	0.000	97	629666	10.0	9.85	
57 Tert-amyl methyl ether	73	7.531	7.531	0.000	99	1627872	10.0	10.4	
* 58 Fluorobenzene (IS)	96	7.744	7.744	0.000	99	2065893	10.0	10.0	
59 n-Heptane	43	7.750	7.750	0.000	90	873361	10.0	10.4	
60 n-Butanol	56	8.098	8.098	0.000	84	1230757	1000.0	1087.8	M
61 Trichloroethene	95	8.220	8.220	0.000	97	688361	10.0	10.0	
62 Methylcyclohexane	83	8.525	8.525	0.000	94	1163763	10.0	10.5	
63 1,2-Dichloropropane	63	8.549	8.549	0.000	87	656764	10.0	10.2	
64 Methyl methacrylate	69	8.634	8.634	0.000	88	318254	10.0	10.4	
65 1,4-Dioxane	88	8.640	8.640	0.000	35	148345	500.0	502.2	M
66 Dibromomethane	93	8.659	8.659	0.000	94	306542	10.0	10.1	
68 Dichlorobromomethane	83	8.896	8.896	0.000	99	795099	10.0	10.3	
69 2-Nitropropane	41	9.159	9.159	0.000	96	778258	100.0	101.4	
72 1-Bromo-2-chloroethane	63	9.287	9.287	0.000	98	675088	10.0	10.2	
73 cis-1,3-Dichloropropene	75	9.439	9.439	0.000	98	986321	10.0	10.7	
74 4-Methyl-2-pentanone (MIBK)	43	9.604	9.604	0.000	95	3947176	100.0	99.7	
$ 75 Toluene-d8 (Surr)	98	9.744	9.744	0.000	93	2037192	10.0	9.93	
76 Toluene	92	9.817	9.817	0.000	99	1696057	10.0	9.90	
78 trans-1,3-Dichloropropene	75	10.073	10.073	0.000	90	792406	10.0	10.7	
79 Ethyl methacrylate	69	10.134	10.134	0.000	87	674454	10.0	10.9	
80 1,1,2-Trichloroethane	97	10.274	10.274	0.000	90	462694	10.0	10.1	
81 Tetrachloroethene	166	10.366	10.366	0.000	97	832486	10.0	10.0	
82 1,3-Dichloropropane	76	10.439	10.439	0.000	86	799899	10.0	10.2	
83 2-Hexanone	43	10.481	10.481	0.000	95	2849426	100.0	105.2	
85 Chlorodibromomethane	129	10.652	10.652	0.000	90	598262	10.0	10.4	
86 Ethylene Dibromide	107	10.762	10.762	0.000	99	452788	10.0	10.3	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	0.000	84	1570516	10.0	10.0	
88 1-Chlorohexane	91	11.195	11.195	0.000	95	986757	10.0	9.94	
90 Chlorobenzene	112	11.213	11.213	0.000	96	1890048	10.0	9.98	
92 Ethylbenzene	91	11.298	11.298	0.000	98	3352863	10.0	10.1	
91 1,1,1,2-Tetrachloroethane	131	11.298	11.298	0.000	96	683105	10.0	10.4	
93 m-Xylene & p-Xylene	106	11.414	11.414	0.000	100	2646088	20.0	20.3	
94 o-Xylene	106	11.743	11.743	0.000	96	1304564	10.0	10.3	
95 Styrene	104	11.756	11.756	0.000	95	2128541	10.0	10.5	
96 Bromoform	173	11.920	11.920	0.000	99	376053	10.0	10.8	
97 Isopropylbenzene	105	12.042	12.042	0.000	95	3465538	10.0	10.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 100 4-Bromofluorobenzene (Surr)	95	12.188	12.188	0.000	94	749783	10.0	9.87	
101 1,1,2,2-Tetrachloroethane	83	12.286	12.286	0.000	92	606886	10.0	10.4	
102 Bromobenzene	156	12.304	12.304	0.000	95	812183	10.0	10.1	
103 trans-1,4-Dichloro-2-butene	53	12.310	12.310	0.000	91	1401018	100.0	107.9	
104 1,2,3-Trichloropropane	110	12.335	12.335	0.000	82	161724	10.0	10.1	
105 N-Propylbenzene	91	12.371	12.371	0.000	99	4034433	10.0	10.3	
106 2-Chlorotoluene	126	12.451	12.451	0.000	97	816131	10.0	10.1	
107 1,3,5-Trimethylbenzene	105	12.505	12.505	0.000	94	2915864	10.0	10.4	
108 4-Chlorotoluene	126	12.542	12.542	0.000	96	830797	10.0	10.2	
109 tert-Butylbenzene	134	12.749	12.749	0.000	93	655812	10.0	10.3	
110 Pentachloroethane	167	12.780	12.780	0.000	93	541224	10.0	10.7	
111 1,2,4-Trimethylbenzene	105	12.792	12.792	0.000	96	2983176	10.0	10.4	
112 sec-Butylbenzene	105	12.914	12.914	0.000	93	3840352	10.0	10.4	
113 1,3-Dichlorobenzene	146	13.011	13.011	0.000	98	1643503	10.0	10.2	
114 4-Isopropyltoluene	119	13.018	13.018	0.000	97	3297888	10.0	10.5	
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	93	891775	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.085	13.085	0.000	95	1640637	10.0	10.1	
117 1,2,3-Trimethylbenzene	120	13.091	13.091	0.000	98	1285454	10.0	10.1	
118 Benzyl chloride	126	13.158	13.158	0.000	98	257164	10.0	11.7	
119 n-Butylbenzene	92	13.310	13.310	0.000	97	1606360	10.0	10.5	
120 1,2-Dichlorobenzene	146	13.341	13.341	0.000	99	1503421	10.0	10.2	
122 1,2-Dibromo-3-Chloropropane	155	13.883	13.883	0.000	91	97400	10.0	10.9	
123 1,3,5-Trichlorobenzene	180	14.011	14.011	0.000	98	1226210	10.0	10.5	
124 1,2,4-Trichlorobenzene	180	14.432	14.432	0.000	94	1043686	10.0	10.8	
125 Hexachlorobutadiene	225	14.517	14.517	0.000	96	420536	10.0	9.98	
126 Naphthalene	128	14.615	14.615	0.000	97	1960339	10.0	10.8	
127 1,2,3-Trichlorobenzene	180	14.755	14.755	0.000	96	889058	10.0	10.6	
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	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00030	Amount Added: 10.00	Units: uL	
MSV_RV4GAS826_00096	Amount Added: 10.00	Units: uL	
MSV_RV4_826_00034	Amount Added: 10.00	Units: uL	
MSV_31_826ISS_00003	Amount Added: 5.00	Units: uL	Run Reagent

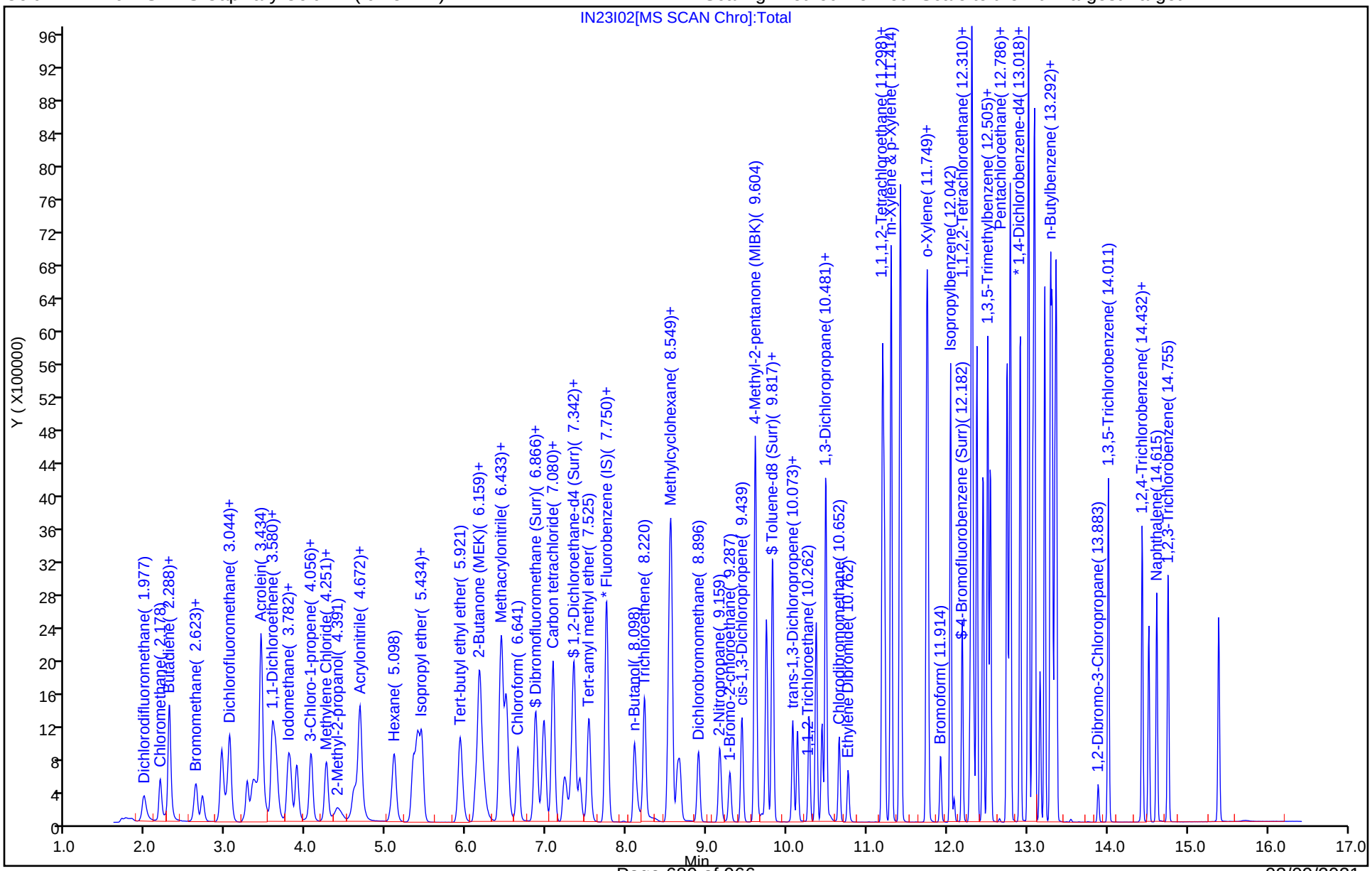
Report Date: 23-Nov-2020 19:10:48 Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I02.D

Injection Date:	23-Nov-2020 13:06:30	Instrument ID:	19930	Operator ID:	dvv10203
Lims ID:	ICIS - LG			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: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

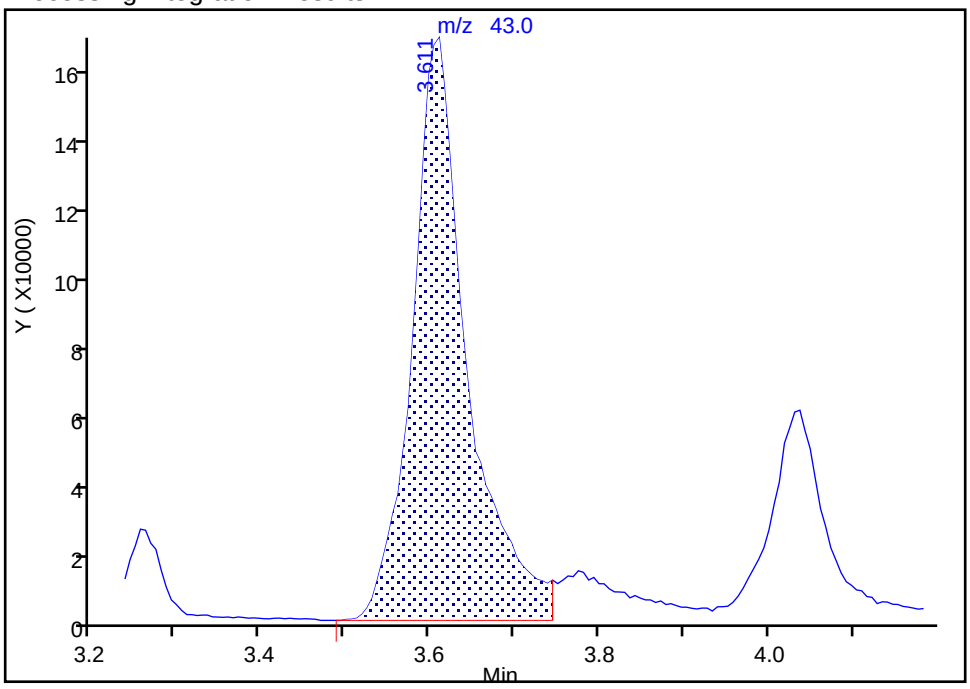
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I02.D				
Injection Date:	23-Nov-2020 13:06:30	Instrument ID:	19930		
Lims ID:	ICIS - LG				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

15 Acetone, CAS: 67-64-1

Signal: 1

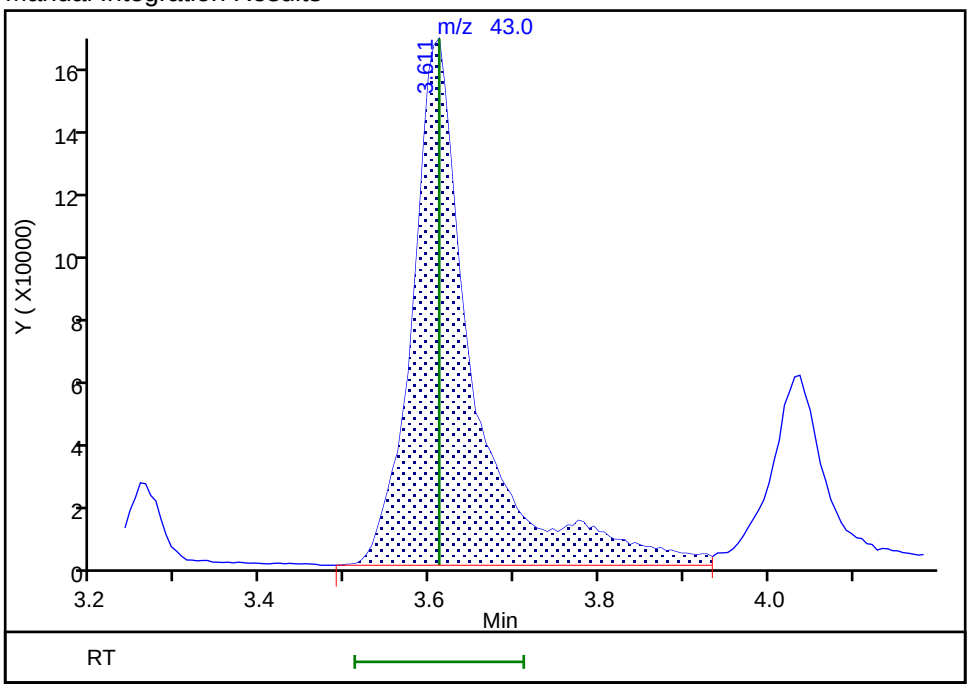
Processing Integration Results

RT: 3.61
Area: 768094
Amount: 81.267546
Amount Units: ug/l



Manual Integration Results

RT: 3.61
Area: 854846
Amount: 89.823778
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:34:10
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

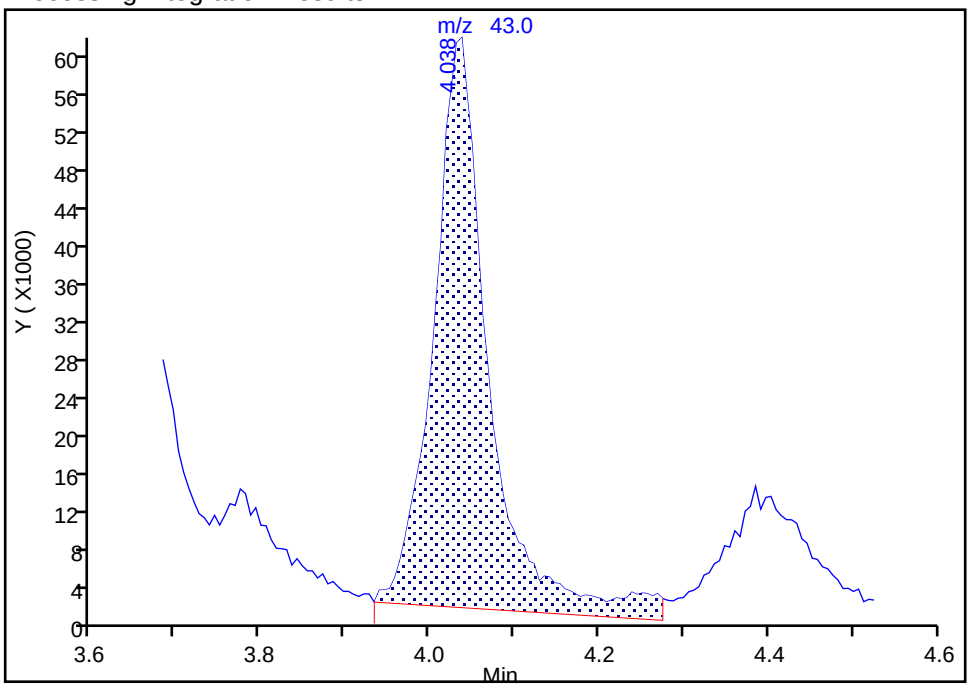
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I02.D				
Injection Date:	23-Nov-2020 13:06:30	Instrument ID:	19930		
Lims ID:	ICIS - LG				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Methyl acetate, CAS: 79-20-9

Signal: 1

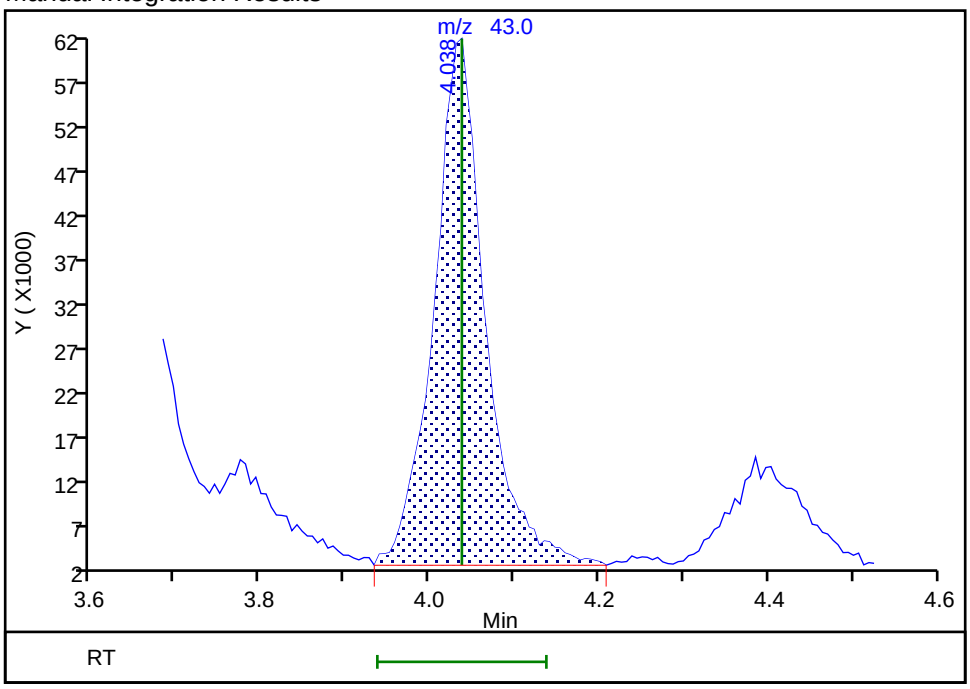
Processing Integration Results

RT: 4.04
Area: 268835
Amount: 11.947469
Amount Units: ug/l



Manual Integration Results

RT: 4.04
Area: 246609
Amount: 9.498666
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:25:41

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

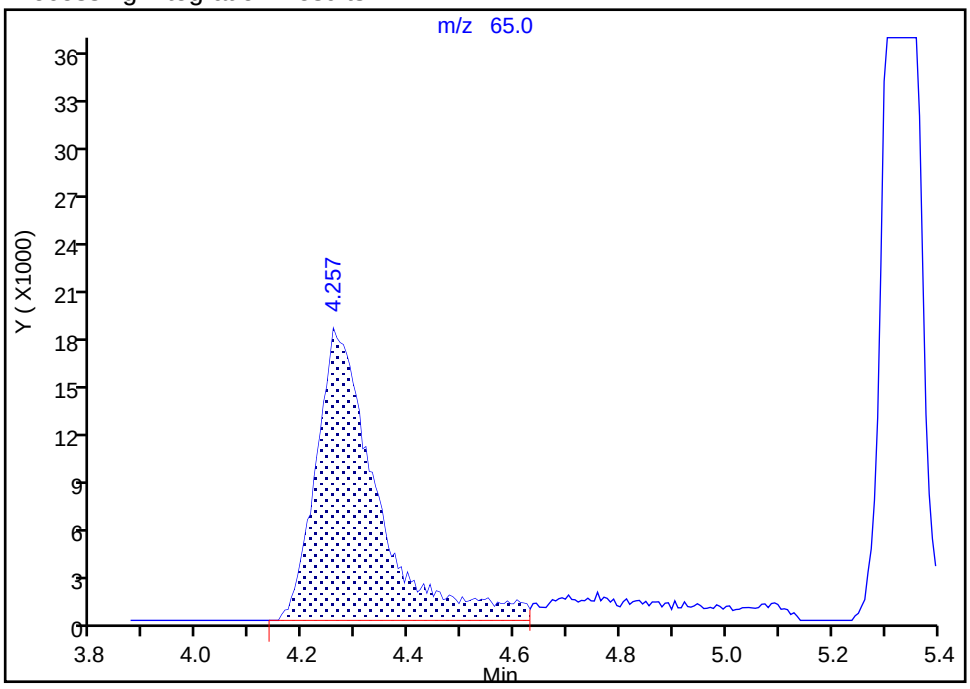
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I02.D				
Injection Date:	23-Nov-2020 13:06:30	Instrument ID:	19930		
Lims ID:	ICIS - LG				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 24 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

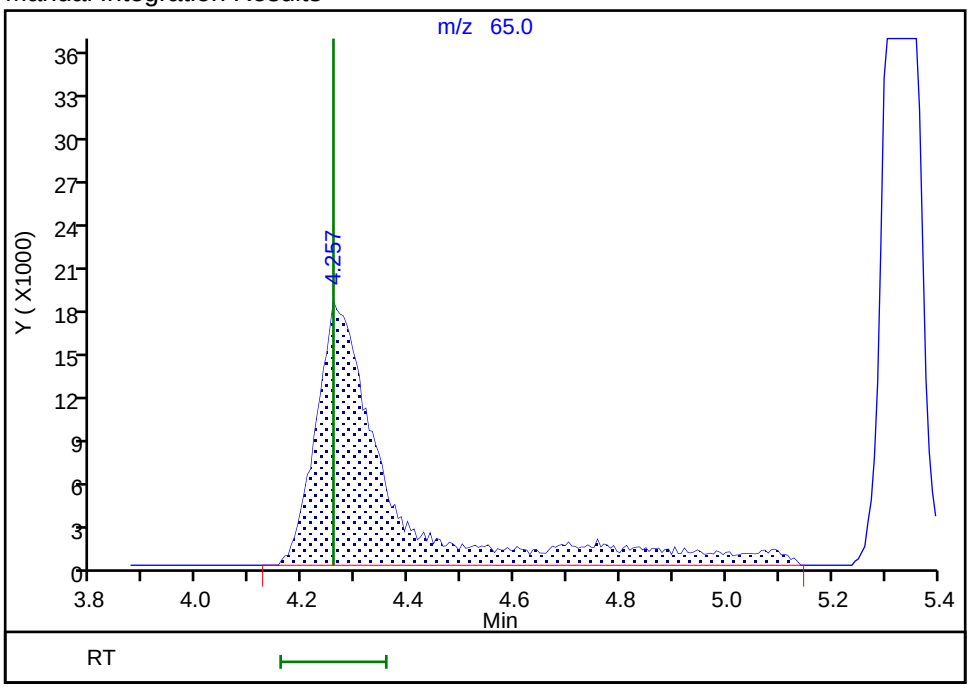
Processing Integration Results

RT: 4.26
Area: 144274
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.26
Area: 174562
Amount: 50.000000
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:26:02

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

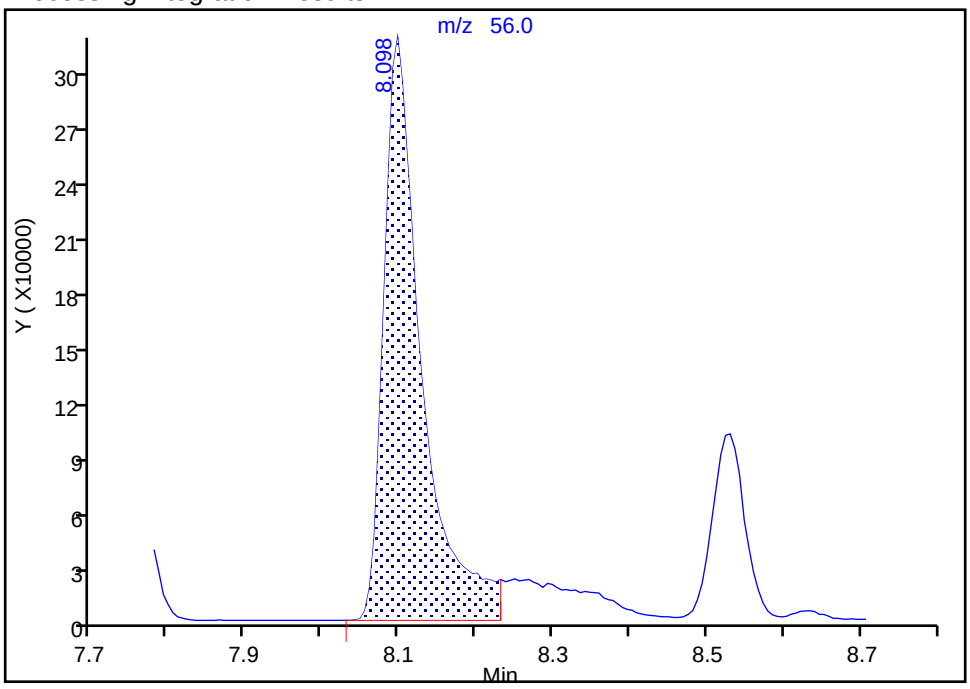
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I02.D				
Injection Date:	23-Nov-2020 13:06:30	Instrument ID:	19930		
Lims ID:	ICIS - LG				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

60 n-Butanol, CAS: 71-36-3

Signal: 1

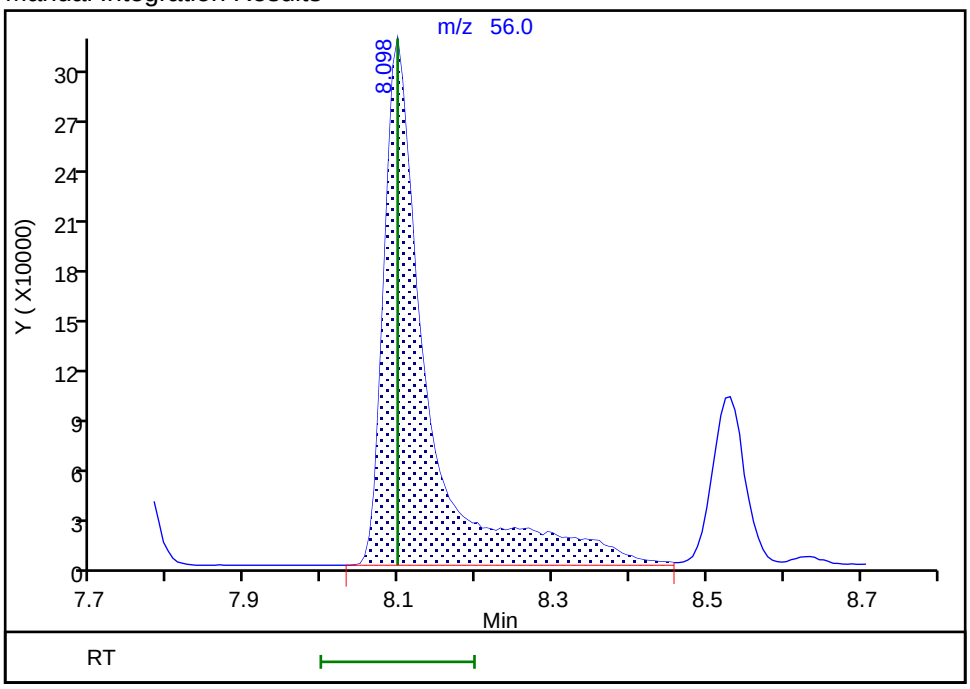
Processing Integration Results

RT: 8.10
Area: 1060901
Amount: 1017.5840
Amount Units: ug/l



Manual Integration Results

RT: 8.10
Area: 1230757
Amount: 1087.7790
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:26:30

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

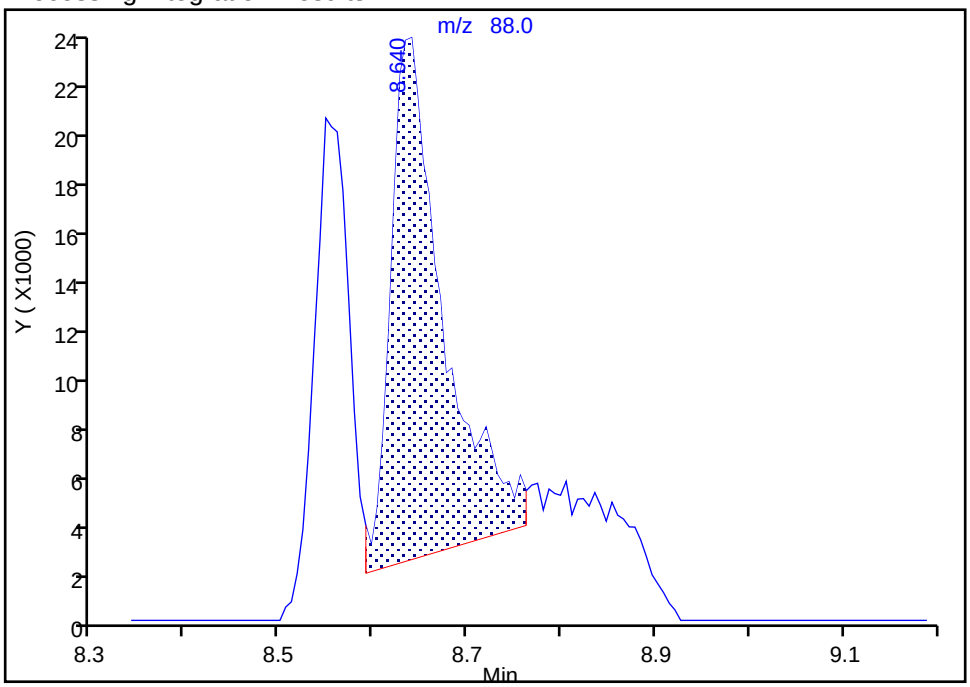
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I02.D				
Injection Date:	23-Nov-2020 13:06:30	Instrument ID:	19930		
Lims ID:	ICIS - LG				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

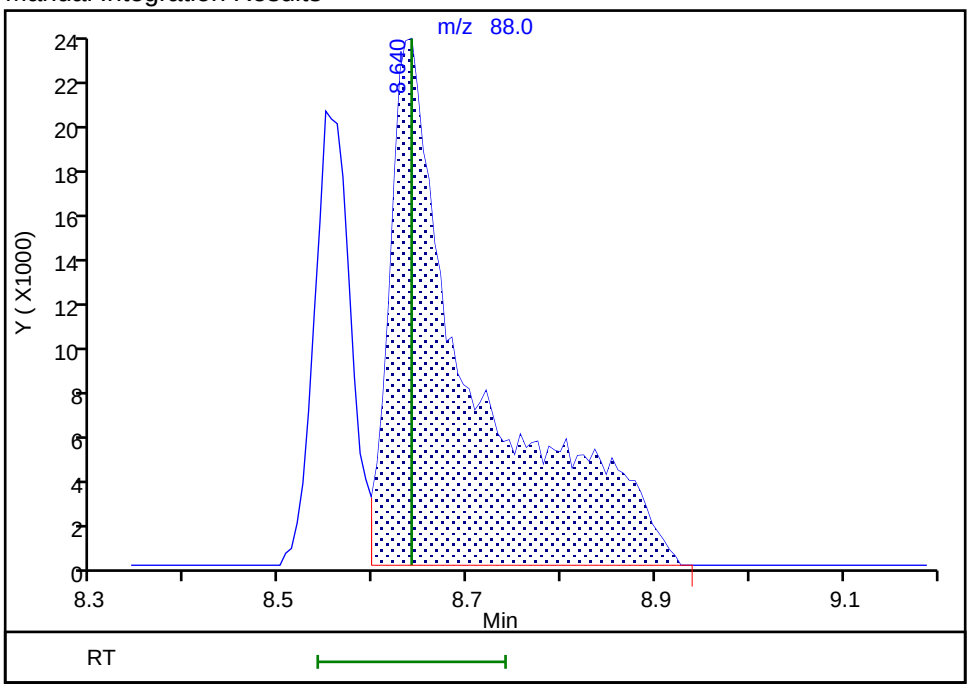
Processing Integration Results

RT: 8.64
Area: 82249
Amount: 529.1983
Amount Units: ug/l



Manual Integration Results

RT: 8.64
Area: 148345
Amount: 502.2415
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:26:46

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\20201123-16280.b\IN23I03.D
Lims ID: IC std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 23-Nov-2020 13:28:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0016280-005
Misc. Info.: IC STD5
Operator ID: dvv10203 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 23-Nov-2020 19:10:58 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: campbellme Date: 23-Nov-2020 18:32:00

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	1.977	-0.006	99	362905	5.00	5.14	
4 Chloromethane	50	2.178	2.178	0.000	99	403049	5.00	4.92	
6 Butadiene	39	2.288	2.288	0.000	91	336874	5.00	4.81	
5 Vinyl chloride	62	2.300	2.300	0.000	98	378321	5.00	5.02	
7 Bromomethane	94	2.623	2.623	0.000	90	268205	5.00	4.90	M
8 Chloroethane	64	2.709	2.702	0.007	100	229528	5.00	4.95	
9 Dichlorofluoromethane	67	2.946	2.946	0.000	96	515898	5.00	4.97	
10 Trichlorofluoromethane	101	3.020	3.019	0.001	98	488244	5.00	5.00	
11 Ethyl ether	59	3.269	3.263	0.006	90	219835	5.00	5.03	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.349	3.343	0.006	91	347378	5.00	5.07	
13 Acrolein	56	3.434	3.434	0.000	100	1828205	250.0	248.4	
14 1,1-Dichloroethene	96	3.580	3.574	0.006	97	267271	5.00	5.07	
15 Acetone	43	3.611	3.611	0.000	100	431846	50.0	47.2	
16 112TCTFE	101	3.623	3.617	0.006	89	291222	5.00	5.22	
17 Iodomethane	142	3.782	3.775	0.007	98	522756	5.00	5.07	
18 Ethyl bromide	108	3.806	3.800	0.006	98	239974	5.00	5.00	
19 Carbon disulfide	76	3.885	3.879	0.006	98	766074	5.00	5.01	
21 Methyl acetate	43	4.038	4.038	0.000	99	120524	5.00	4.83	M
22 3-Chloro-1-propene	41	4.062	4.056	0.006	92	400038	5.00	4.99	
23 Methylene Chloride	84	4.251	4.251	0.000	89	289040	5.00	4.94	
* 24 t-Butyl alcohol-d10 (IS)	65	4.263	4.257	0.006	0	167919	50.0	50.0	M
25 2-Methyl-2-propanol	59	4.391	4.391	0.000	99	360171	100.0	100.6	
26 Acrylonitrile	53	4.598	4.592	0.006	98	298145	25.0	24.9	
27 Methyl tert-butyl ether	73	4.659	4.659	0.000	94	719156	5.00	5.09	
28 trans-1,2-Dichloroethene	96	4.678	4.672	0.006	99	296112	5.00	5.08	
29 Hexane	57	5.104	5.098	0.006	89	429931	5.00	5.39	
31 1,1-Dichloroethane	63	5.330	5.336	-0.006	96	533155	5.00	5.06	
32 Isopropyl ether	45	5.391	5.391	0.000	95	883301	5.00	5.07	
33 2-Chloro-1,3-butadiene	53	5.446	5.440	0.006	89	434378	5.00	5.14	
34 Tert-butyl ethyl ether	59	5.921	5.921	0.000	97	840400	5.00	5.11	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.129	6.135	-0.006	99	758501	50.0	49.5	
S 35 1,2-Dichloroethene, Total	100				0			10.1	
37 cis-1,2-Dichloroethene	96	6.165	6.165	0.000	81	339325	5.00	5.01	
38 2,2-Dichloropropane	77	6.177	6.177	0.000	86	433655	5.00	5.12	
40 Propionitrile	54	6.220	6.220	0.000	99	450559	100.0	100.6	
42 Methacrylonitrile	67	6.433	6.433	0.000	89	784279	50.0	49.7	
43 Chlorobromomethane	128	6.494	6.494	0.000	89	152825	5.00	5.13	
44 Tetrahydrofuran	71	6.507	6.507	0.000	84	232086	50.0	50.0	
45 Chloroform	83	6.641	6.641	0.000	92	523866	5.00	5.05	
$ 46 Dibromofluoromethane (Surr)	113	6.854	6.854	0.000	94	490996	10.0	10.0	
47 1,1,1-Trichloroethane	97	6.872	6.866	0.006	97	471715	5.00	5.06	
48 Cyclohexane	56	6.964	6.970	-0.006	88	506440	5.00	5.24	
50 Carbon tetrachloride	117	7.080	7.080	0.000	88	430415	5.00	5.16	
51 1,1-Dichloropropene	75	7.080	7.080	0.000	97	424728	5.00	5.13	
52 Isobutyl alcohol	41	7.226	7.226	0.000	95	294140	250.0	255.4	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.311	7.311	0.000	0	99154	10.0	10.1	
54 Benzene	78	7.342	7.342	0.000	96	1258244	5.00	5.02	
56 1,2-Dichloroethane	62	7.415	7.415	0.000	97	297074	5.00	4.85	
57 Tert-amyl methyl ether	73	7.531	7.531	0.000	99	780037	5.00	5.18	
* 58 Fluorobenzene (IS)	96	7.744	7.744	0.000	99	1978687	10.0	10.0	
59 n-Heptane	43	7.750	7.750	0.000	90	414595	5.00	5.18	
60 n-Butanol	56	8.098	8.098	0.000	84	565829	500.0	519.9	M
61 Trichloroethene	95	8.220	8.220	0.000	97	330514	5.00	5.04	
62 Methylcyclohexane	83	8.531	8.525	0.007	94	562317	5.00	5.28	
63 1,2-Dichloropropane	63	8.555	8.549	0.006	91	310291	5.00	5.04	
64 Methyl methacrylate	69	8.634	8.634	0.000	87	148760	5.00	5.07	
65 1,4-Dioxane	88	8.640	8.640	0.000	35	65884	250.0	231.9	M
66 Dibromomethane	93	8.665	8.659	0.006	94	147921	5.00	5.08	
68 Dichlorobromomethane	83	8.896	8.896	0.000	99	374289	5.00	5.07	
69 2-Nitropropane	41	9.165	9.159	0.006	96	374854	50.0	50.8	
72 1-Bromo-2-chloroethane	63	9.287	9.287	0.000	98	322620	5.00	5.09	
73 cis-1,3-Dichloropropene	75	9.439	9.439	0.000	98	459853	5.00	5.19	
74 4-Methyl-2-pentanone (MIBK)	43	9.604	9.604	0.000	95	1948125	50.0	51.1	
$ 75 Toluene-d8 (Surr)	98	9.744	9.744	0.000	93	1951818	10.0	10.1	
76 Toluene	92	9.823	9.817	0.006	98	811376	5.00	5.00	
S 77 1,3-Dichloropropene, Total	100				0			10.4	
78 trans-1,3-Dichloropropene	75	10.073	10.073	0.000	90	367862	5.00	5.26	
79 Ethyl methacrylate	69	10.134	10.134	0.000	88	316728	5.00	5.41	
80 1,1,2-Trichloroethane	97	10.274	10.274	0.000	90	218945	5.00	5.06	
81 Tetrachloroethene	166	10.366	10.366	0.000	97	401439	5.00	5.11	
82 1,3-Dichloropropane	76	10.439	10.439	0.000	87	378398	5.00	5.12	
83 2-Hexanone	43	10.488	10.481	0.007	96	1351932	50.0	51.9	
85 Chlorodibromomethane	129	10.652	10.652	0.000	89	283207	5.00	5.21	
86 Ethylene Dibromide	107	10.762	10.762	0.000	98	213803	5.00	5.16	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	0.000	84	1486999	10.0	10.0	
88 1-Chlorohexane	91	11.195	11.195	0.000	95	470375	5.00	5.00	
90 Chlorobenzene	112	11.219	11.213	0.006	96	905888	5.00	5.05	
S 89 Xylenes, Total	106				0			15.4	
92 Ethylbenzene	91	11.304	11.298	0.006	98	1598931	5.00	5.11	
91 1,1,1,2-Tetrachloroethane	131	11.298	11.298	0.000	97	321476	5.00	5.17	
93 m-Xylene & p-Xylene	106	11.414	11.414	0.000	100	1263230	10.0	10.2	
94 o-Xylene	106	11.743	11.743	0.000	96	617748	5.00	5.14	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
95 Styrene	104	11.762	11.756	0.006	95	1005274	5.00	5.23	
96 Bromoform	173	11.920	11.920	0.000	98	171030	5.00	5.21	
97 Isopropylbenzene	105	12.042	12.042	0.000	95	1654564	5.00	5.19	
$ 100 4-Bromofluorobenzene (Surr)	95	12.188	12.188	0.000	94	723239	10.0	10.1	
101 1,1,2,2-Tetrachloroethane	83	12.286	12.286	0.000	92	288446	5.00	5.22	
102 Bromobenzene	156	12.304	12.304	0.000	95	388628	5.00	5.10	
103 trans-1,4-Dichloro-2-butene	53	12.310	12.310	0.000	91	640566	50.0	51.3	
104 1,2,3-Trichloropropane	110	12.335	12.335	0.000	82	77284	5.00	5.10	
105 N-Propylbenzene	91	12.371	12.371	0.000	99	1917309	5.00	5.14	
106 2-Chlorotoluene	126	12.451	12.451	0.000	97	391437	5.00	5.13	
107 1,3,5-Trimethylbenzene	105	12.505	12.505	0.000	94	1374177	5.00	5.15	
108 4-Chlorotoluene	126	12.542	12.542	0.000	96	391457	5.00	5.08	
109 tert-Butylbenzene	134	12.749	12.749	0.000	93	308232	5.00	5.11	
110 Pentachloroethane	167	12.780	12.780	0.000	92	248476	5.00	5.20	
111 1,2,4-Trimethylbenzene	105	12.792	12.792	0.000	96	1412501	5.00	5.20	
112 sec-Butylbenzene	105	12.908	12.914	-0.006	94	1814658	5.00	5.18	
113 1,3-Dichlorobenzene	146	13.011	13.011	0.000	98	774588	5.00	5.05	
114 4-Isopropyltoluene	119	13.018	13.018	0.000	97	1557438	5.00	5.22	
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	94	845833	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.085	13.085	0.000	96	776711	5.00	5.07	
117 1,2,3-Trimethylbenzene	120	13.097	13.091	0.006	98	609602	5.00	5.06	
118 Benzyl chloride	126	13.158	13.158	0.000	98	112713	5.00	5.40	
119 n-Butylbenzene	92	13.310	13.310	0.000	97	748043	5.00	5.13	
120 1,2-Dichlorobenzene	146	13.341	13.341	0.000	99	708104	5.00	5.06	
122 1,2-Dibromo-3-Chloropropane	155	13.889	13.883	0.006	90	45090	5.00	5.32	
123 1,3,5-Trichlorobenzene	180	14.011	14.011	0.000	98	565506	5.00	5.12	
124 1,2,4-Trichlorobenzene	180	14.432	14.432	0.000	94	476320	5.00	5.19	
125 Hexachlorobutadiene	225	14.517	14.517	0.000	96	198152	5.00	4.96	
126 Naphthalene	128	14.615	14.615	0.000	97	910778	5.00	5.31	
127 1,2,3-Trichlorobenzene	180	14.755	14.755	0.000	96	412357	5.00	5.20	
134 Isopropyl alcohol	45		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
137 2-Methylnaphthalene	142		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:

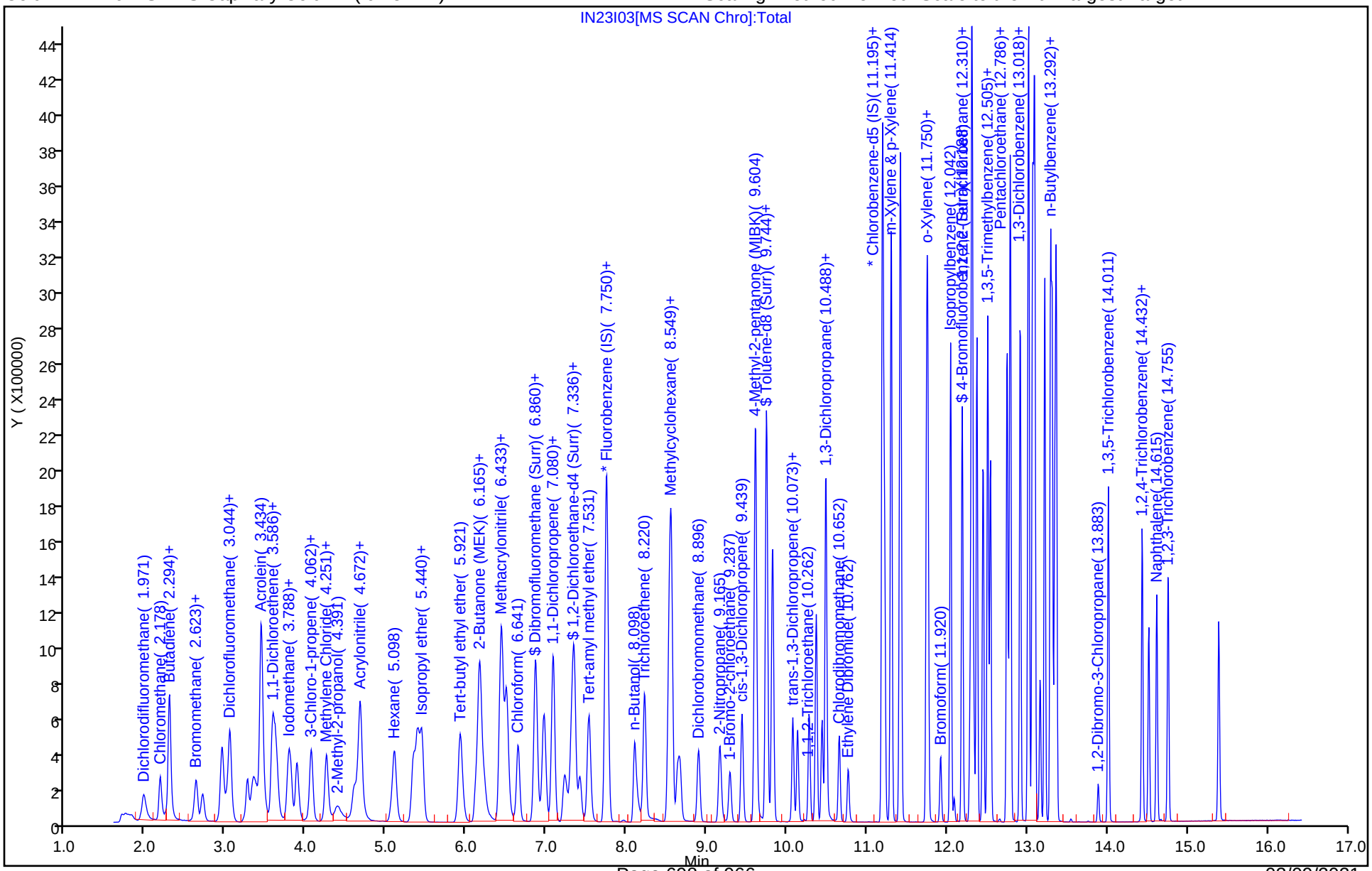
MSV_RV1_826_00030	Amount Added:	5.00	Units: uL	
MSV_RV4GAS826_00096	Amount Added:	5.00	Units: uL	
MSV_RV4_826_00034	Amount Added:	5.00	Units: uL	
MSV_31_826ISS_00003	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 23-Nov-2020 19:11:00 Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I03.D				
Injection Date:	23-Nov-2020 13:28:30	Instrument ID:	19930	Operator ID:	dvv10203
Lims ID:	IC std5			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: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

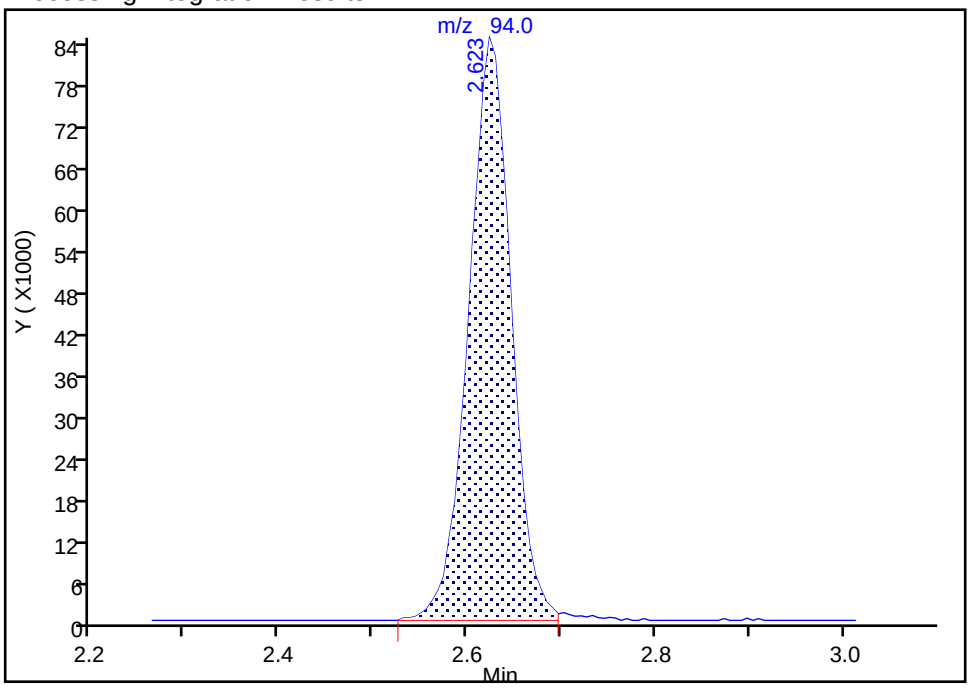
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I03.D				
Injection Date:	23-Nov-2020 13:28:30	Instrument ID:	19930		
Lims ID:	IC std5				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

7 Bromomethane, CAS: 74-83-9

Signal: 1

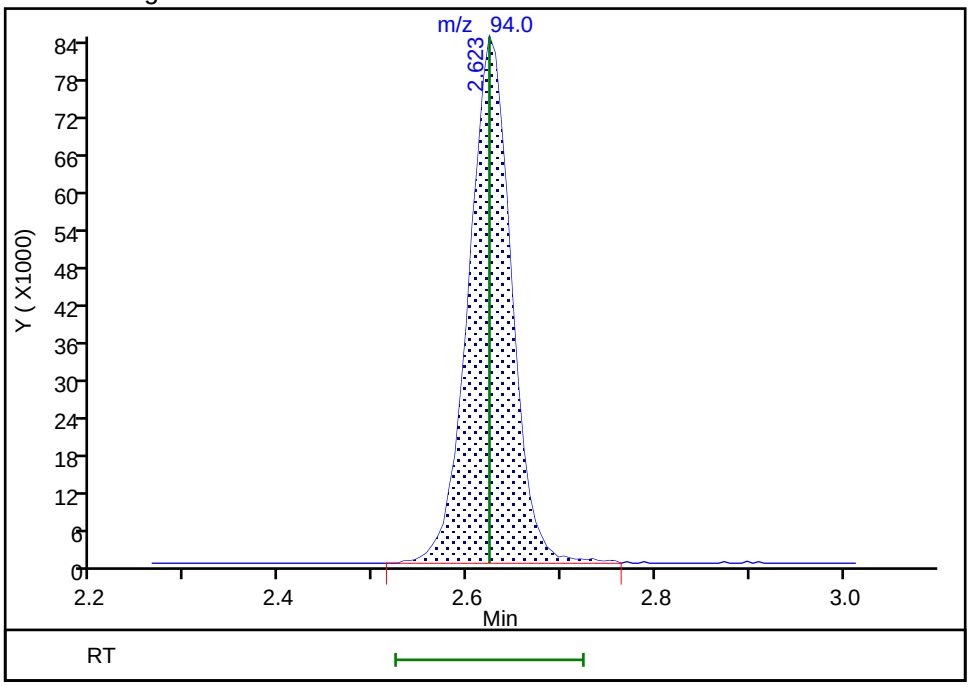
Processing Integration Results

RT: 2.62
Area: 266042
Amount: 4.869391
Amount Units: ug/l



Manual Integration Results

RT: 2.62
Area: 268205
Amount: 4.903435
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:30:20

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

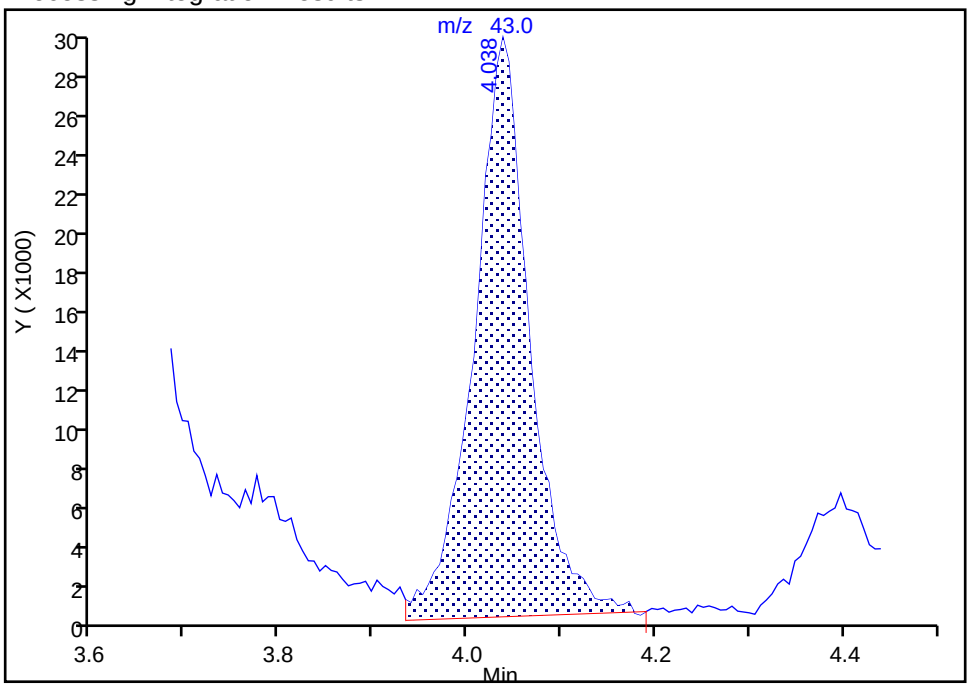
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I03.D				
Injection Date:	23-Nov-2020 13:28:30	Instrument ID:	19930		
Lims ID:	IC std5				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Methyl acetate, CAS: 79-20-9

Signal: 1

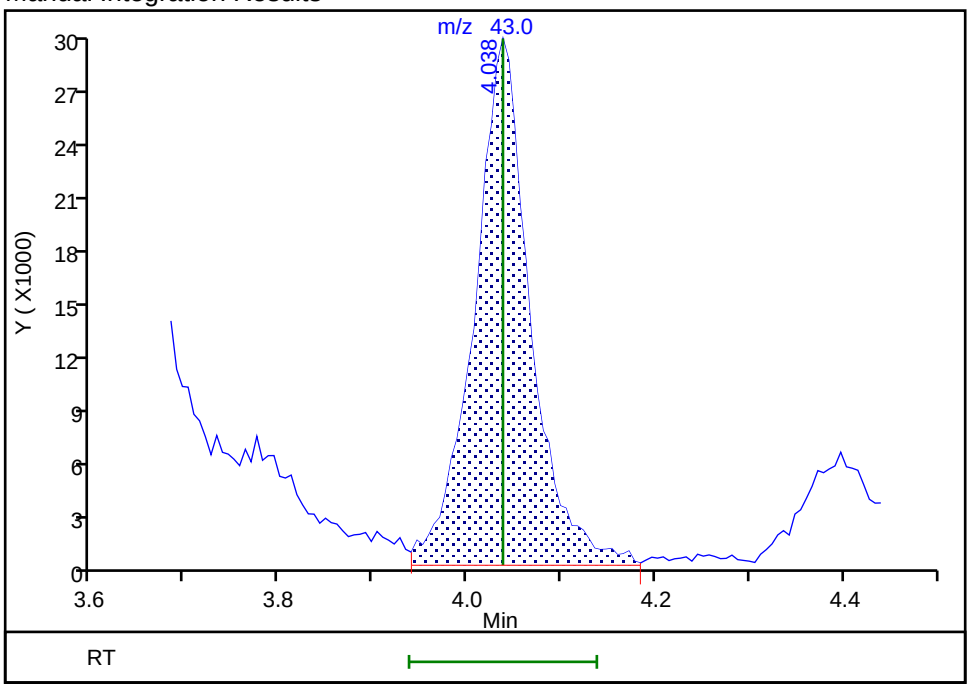
Processing Integration Results

RT: 4.04
Area: 119876
Amount: 4.897701
Amount Units: ug/l



Manual Integration Results

RT: 4.04
Area: 120524
Amount: 4.825887
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:30:53
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

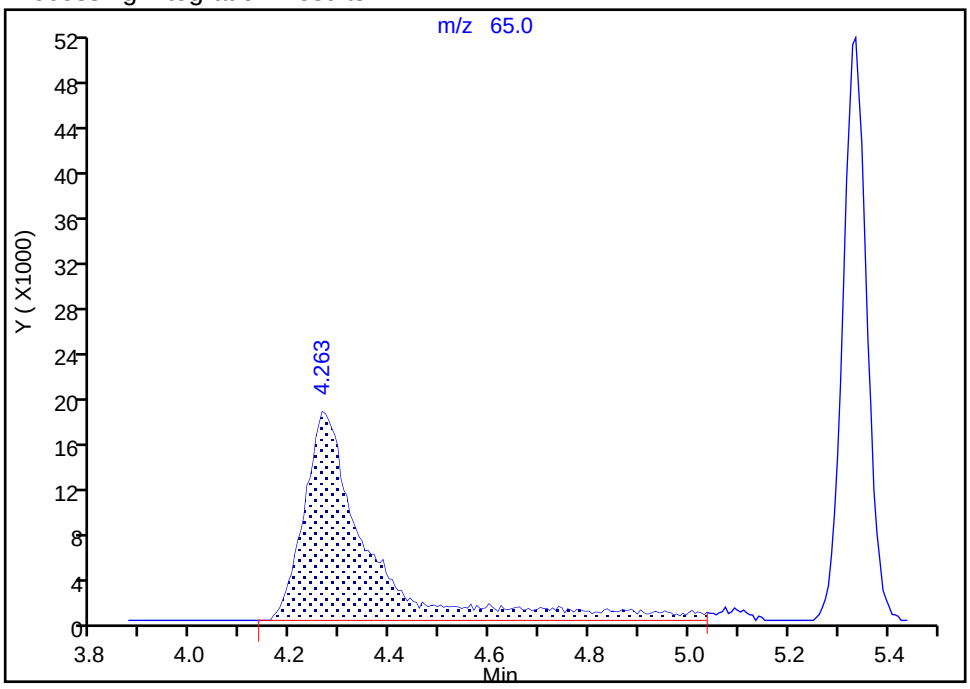
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I03.D				
Injection Date:	23-Nov-2020 13:28:30	Instrument ID:	19930		
Lims ID:	IC std5				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit 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

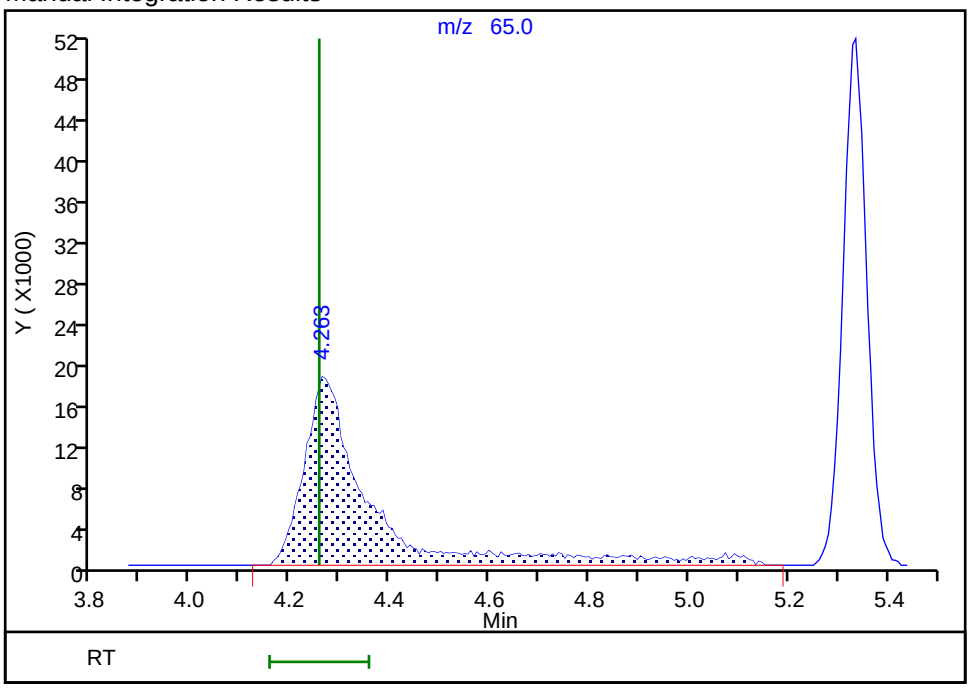
Processing Integration Results

RT: 4.26
Area: 163691
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.26
Area: 167919
Amount: 50.000000
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:44:26

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

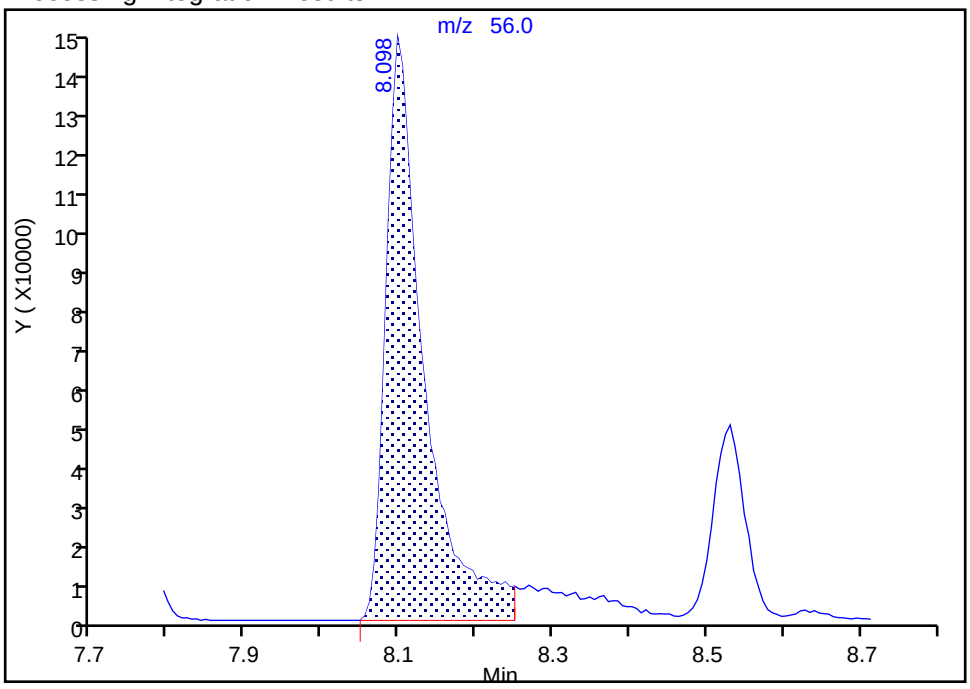
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I03.D				
Injection Date:	23-Nov-2020 13:28:30	Instrument ID:	19930		
Lims ID:	IC std5				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

60 n-Butanol, CAS: 71-36-3

Signal: 1

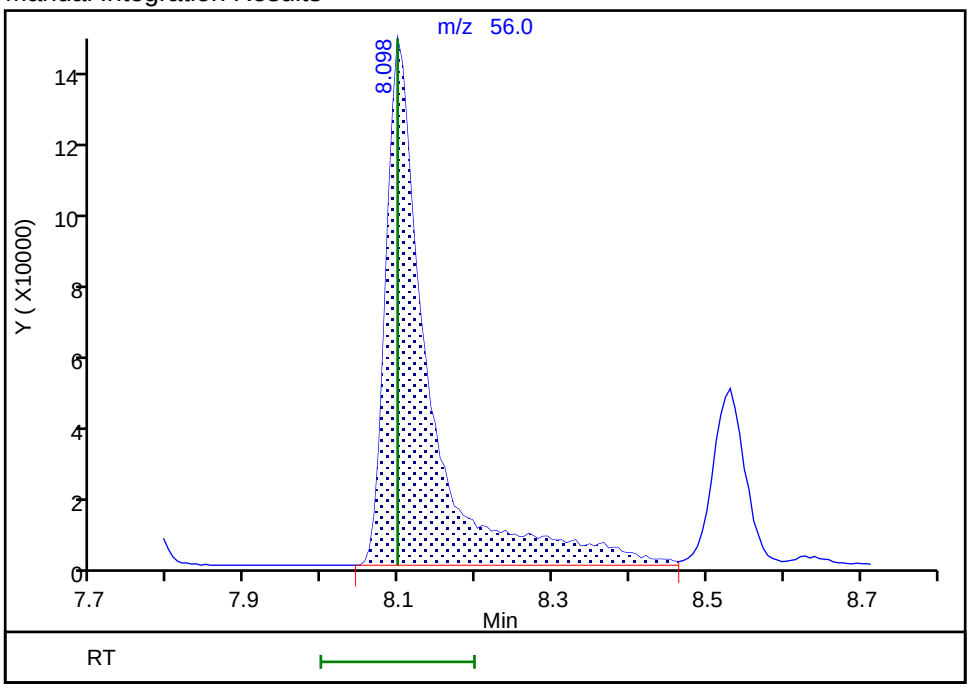
Processing Integration Results

RT: 8.10
Area: 502560
Amount: 499.1696
Amount Units: ug/l



Manual Integration Results

RT: 8.10
Area: 565829
Amount: 519.8804
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:31:22

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

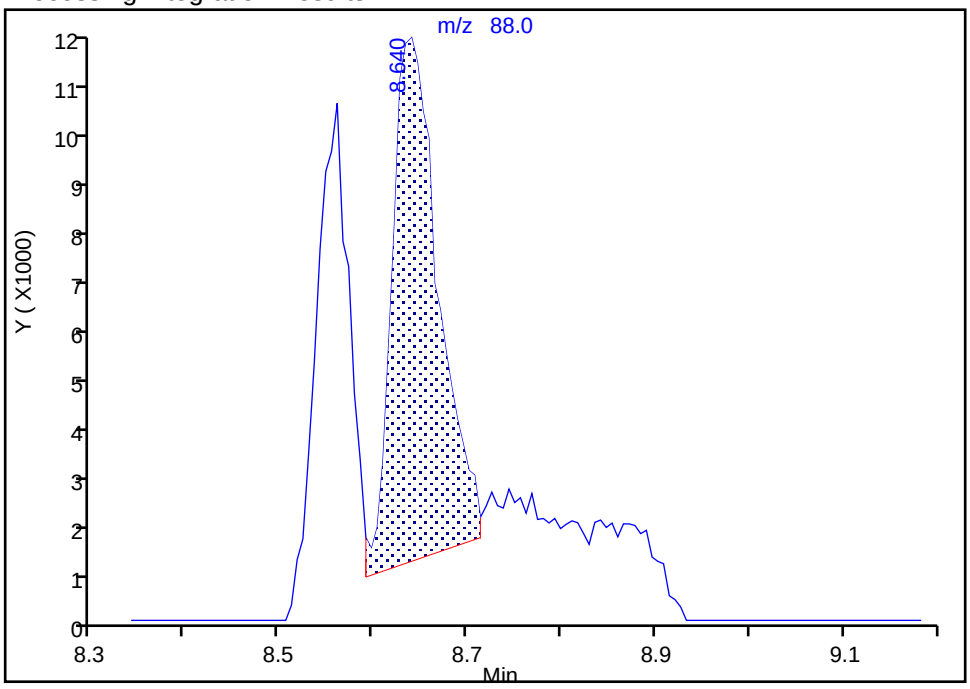
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I03.D				
Injection Date:	23-Nov-2020 13:28:30	Instrument ID:	19930		
Lims ID:	IC std5				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

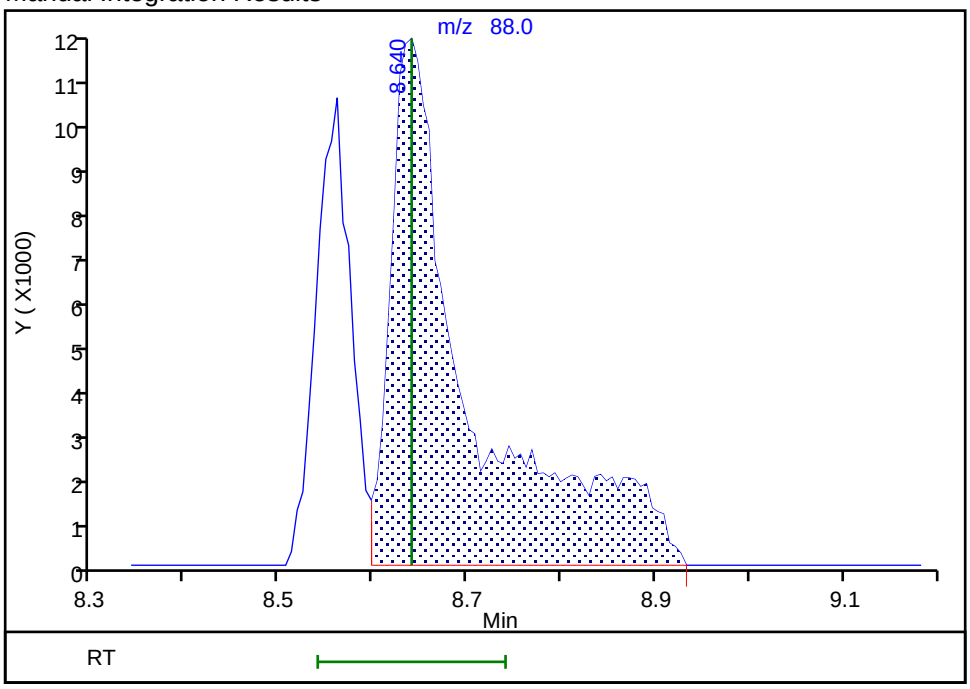
Processing Integration Results

RT: 8.64
Area: 34674
Amount: 195.3602
Amount Units: ug/l



Manual Integration Results

RT: 8.64
Area: 65884
Amount: 231.8833
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:31:40

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\20201123-16280.b\IN23I04.D
Lims ID: IC std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Nov-2020 13:49:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0016280-006
Misc. Info.: IC STD4
Operator ID: dvv10203 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 23-Nov-2020 19:11:11 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: campbellme Date: 23-Nov-2020 18:35:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.971	1.971	0.000	99	137035	2.00	1.94	
4 Chloromethane	50	2.172	2.172	0.000	99	166854	2.00	2.04	
6 Butadiene	39	2.288	2.288	0.000	88	129463	2.00	1.85	
5 Vinyl chloride	62	2.300	2.300	0.000	98	154985	2.00	2.06	M
7 Bromomethane	94	2.623	2.623	0.000	90	113059	2.00	2.07	
8 Chloroethane	64	2.709	2.709	0.000	99	94172	2.00	2.03	
9 Dichlorofluoromethane	67	2.940	2.940	0.000	97	212826	2.00	2.05	
10 Trichlorofluoromethane	101	3.019	3.019	0.000	98	194532	2.00	1.99	
11 Ethyl ether	59	3.269	3.269	0.000	90	88826	2.00	2.03	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.336	3.336	0.000	91	131936	2.00	1.93	
13 Acrolein	56	3.440	3.440	0.000	100	701877	100.0	97.6	
14 1,1-Dichloroethene	96	3.580	3.580	0.000	97	102917	2.00	1.95	
15 Acetone	43	3.605	3.605	0.000	100	171065	20.0	19.1	
16 112TCTFE	101	3.617	3.617	0.000	87	104592	2.00	1.88	
17 Iodomethane	142	3.775	3.775	0.000	98	202587	2.00	1.97	
18 Ethyl bromide	108	3.806	3.806	0.000	98	98342	2.00	2.05	
19 Carbon disulfide	76	3.885	3.885	0.000	99	292763	2.00	1.92	
21 Methyl acetate	43	4.038	4.038	0.000	97	49588	2.00	2.03	M
22 3-Chloro-1-propene	41	4.062	4.062	0.000	93	164133	2.00	2.05	
23 Methylene Chloride	84	4.251	4.251	0.000	90	113711	2.00	1.95	
* 24 t-Butyl alcohol-d10 (IS)	65	4.257	4.257	0.000	0	164063	50.0	50.0	M
25 2-Methyl-2-propanol	59	4.385	4.385	0.000	98	142185	40.0	40.6	
26 Acrylonitrile	53	4.592	4.592	0.000	99	115701	10.0	9.91	
27 Methyl tert-butyl ether	73	4.659	4.659	0.000	94	280757	2.00	1.99	
28 trans-1,2-Dichloroethene	96	4.678	4.678	0.000	99	113298	2.00	1.95	
29 Hexane	57	5.104	5.104	0.000	89	150330	2.00	1.89	
31 1,1-Dichloroethane	63	5.336	5.336	0.000	96	206444	2.00	1.96	
32 Isopropyl ether	45	5.391	5.391	0.000	95	342003	2.00	1.97	
33 2-Chloro-1,3-butadiene	53	5.446	5.446	0.000	89	165305	2.00	1.96	
34 Tert-butyl ethyl ether	59	5.921	5.921	0.000	97	325561	2.00	1.98	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.135	6.135	0.000	99	293727	20.0	19.6	
S 35 1,2-Dichloroethene, Total	100				0			3.90	
37 cis-1,2-Dichloroethene	96	6.165	6.165	0.000	80	131926	2.00	1.95	
38 2,2-Dichloropropane	77	6.177	6.177	0.000	86	164796	2.00	1.95	
40 Propionitrile	54	6.220	6.220	0.000	99	170750	40.0	39.0	
42 Methacrylonitrile	67	6.433	6.433	0.000	90	298659	20.0	19.4	
43 Chlorobromomethane	128	6.494	6.494	0.000	89	61198	2.00	2.06	
44 Tetrahydrofuran	71	6.507	6.507	0.000	84	89453	20.0	19.7	
45 Chloroform	83	6.647	6.647	0.000	92	203027	2.00	1.96	
$ 46 Dibromofluoromethane (Surr)	113	6.860	6.860	0.000	94	487807	10.0	10.0	
47 1,1,1-Trichloroethane	97	6.866	6.866	0.000	97	182755	2.00	1.96	
48 Cyclohexane	56	6.964	6.964	0.000	88	186444	2.00	1.93	
50 Carbon tetrachloride	117	7.080	7.080	0.000	94	162919	2.00	1.95	
51 1,1-Dichloropropene	75	7.080	7.080	0.000	97	164045	2.00	1.98	
52 Isobutyl alcohol	41	7.232	7.232	0.000	96	114540	100.0	101.8	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.311	7.311	0.000	0	98235	10.0	9.99	
54 Benzene	78	7.342	7.342	0.000	96	490160	2.00	1.96	
56 1,2-Dichloroethane	62	7.415	7.415	0.000	97	118739	2.00	1.94	
57 Tert-amyl methyl ether	73	7.531	7.531	0.000	99	295847	2.00	1.97	
* 58 Fluorobenzene (IS)	96	7.744	7.744	0.000	99	1976128	10.0	10.0	
59 n-Heptane	43	7.756	7.756	0.000	90	152765	2.00	1.91	
60 n-Butanol	56	8.104	8.104	0.000	87	211478	200.0	198.9	
61 Trichloroethene	95	8.220	8.220	0.000	97	126694	2.00	1.93	
62 Methylcyclohexane	83	8.531	8.531	0.000	92	208498	2.00	1.96	
63 1,2-Dichloropropane	63	8.555	8.555	0.000	87	121570	2.00	1.98	
64 Methyl methacrylate	69	8.634	8.634	0.000	86	55899	2.00	1.95	
65 1,4-Dioxane	88	8.640	8.640	0.000	39	28458	100.0	102.5	M
66 Dibromomethane	93	8.665	8.665	0.000	94	57091	2.00	1.96	
68 Dichlorobromomethane	83	8.896	8.896	0.000	99	142334	2.00	1.93	
69 2-Nitropropane	41	9.165	9.165	0.000	98	140261	20.0	19.4	
72 1-Bromo-2-chloroethane	63	9.287	9.287	0.000	98	129870	2.00	2.05	
73 cis-1,3-Dichloropropene	75	9.439	9.439	0.000	98	171644	2.00	1.94	
74 4-Methyl-2-pentanone (MIBK)	43	9.604	9.604	0.000	95	734468	20.0	19.7	
$ 75 Toluene-d8 (Surr)	98	9.744	9.744	0.000	93	1941813	10.0	10.0	
76 Toluene	92	9.817	9.817	0.000	98	313899	2.00	1.94	
S 77 1,3-Dichloropropene, Total	100				0			3.92	
78 trans-1,3-Dichloropropene	75	10.073	10.073	0.000	90	137933	2.00	1.98	
79 Ethyl methacrylate	69	10.134	10.134	0.000	88	114724	2.00	1.97	
80 1,1,2-Trichloroethane	97	10.280	10.280	0.000	90	83917	2.00	1.95	
81 Tetrachloroethene	166	10.366	10.366	0.000	97	151027	2.00	1.93	
82 1,3-Dichloropropane	76	10.439	10.439	0.000	87	144948	2.00	1.97	
83 2-Hexanone	43	10.488	10.488	0.000	95	511453	20.0	20.1	
85 Chlorodibromomethane	129	10.652	10.652	0.000	89	105930	2.00	1.96	
86 Ethylene Dibromide	107	10.762	10.762	0.000	98	80415	2.00	1.95	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	0.000	85	1481807	10.0	10.0	
88 1-Chlorohexane	91	11.195	11.195	0.000	95	178481	2.00	1.90	
90 Chlorobenzene	112	11.219	11.219	0.000	97	347796	2.00	1.95	
S 89 Xylenes, Total	106				0			5.95	
92 Ethylbenzene	91	11.304	11.304	0.000	98	614346	2.00	1.97	
91 1,1,1,2-Tetrachloroethane	131	11.298	11.298	0.000	97	121733	2.00	1.96	
93 m-Xylene & p-Xylene	106	11.414	11.414	0.000	100	490346	4.00	3.98	
94 o-Xylene	106	11.743	11.743	0.000	96	236196	2.00	1.97	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
95 Styrene	104	11.762	11.762	0.000	94	379665	2.00	1.98	
96 Bromoform	173	11.920	11.920	0.000	98	63856	2.00	1.95	
97 Isopropylbenzene	105	12.042	12.042	0.000	95	632848	2.00	1.99	
$ 100 4-Bromofluorobenzene (Surr)	95	12.188	12.188	0.000	94	718478	10.0	10.0	
101 1,1,2,2-Tetrachloroethane	83	12.286	12.286	0.000	93	107901	2.00	1.95	
102 Bromobenzene	156	12.304	12.304	0.000	97	150137	2.00	1.97	
103 trans-1,4-Dichloro-2-butene	53	12.310	12.310	0.000	92	235404	20.0	19.3	
104 1,2,3-Trichloropropane	110	12.335	12.335	0.000	82	29565	2.00	1.94	
105 N-Propylbenzene	91	12.371	12.371	0.000	99	736780	2.00	1.97	
106 2-Chlorotoluene	126	12.451	12.451	0.000	97	150481	2.00	1.97	
107 1,3,5-Trimethylbenzene	105	12.505	12.505	0.000	94	526346	2.00	1.97	
108 4-Chlorotoluene	126	12.542	12.542	0.000	96	149649	2.00	1.94	
109 tert-Butylbenzene	134	12.749	12.749	0.000	92	115253	2.00	1.91	
110 Pentachloroethane	167	12.780	12.780	0.000	93	98293	2.00	2.05	
111 1,2,4-Trimethylbenzene	105	12.792	12.792	0.000	96	536289	2.00	1.97	
112 sec-Butylbenzene	105	12.914	12.914	0.000	94	691511	2.00	1.97	
113 1,3-Dichlorobenzene	146	13.011	13.011	0.000	98	299667	2.00	1.95	
114 4-Isopropyltoluene	119	13.018	13.018	0.000	97	596157	2.00	1.99	
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	94	848463	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.085	13.085	0.000	96	298581	2.00	1.94	
117 1,2,3-Trimethylbenzene	120	13.097	13.097	0.000	98	245278	2.00	2.03	
118 Benzyl chloride	126	13.164	13.164	0.000	98	42275	2.00	2.02	
119 n-Butylbenzene	92	13.310	13.310	0.000	96	287834	2.00	1.97	
120 1,2-Dichlorobenzene	146	13.347	13.347	0.000	99	271564	2.00	1.94	
122 1,2-Dibromo-3-Chloropropane	155	13.883	13.883	0.000	88	16302	2.00	1.92	
123 1,3,5-Trichlorobenzene	180	14.011	14.011	0.000	97	213605	2.00	1.93	
124 1,2,4-Trichlorobenzene	180	14.438	14.438	0.000	94	176796	2.00	1.92	
125 Hexachlorobutadiene	225	14.517	14.517	0.000	96	76823	2.00	1.92	
126 Naphthalene	128	14.615	14.615	0.000	96	343142	2.00	1.99	
127 1,2,3-Trichlorobenzene	180	14.761	14.761	0.000	96	156150	2.00	1.96	
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	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00030	Amount Added:	2.00	Units: uL	
MSV_RV4GAS826_00096	Amount Added:	2.00	Units: uL	
MSV_RV4_826_00034	Amount Added:	2.00	Units: uL	
MSV_31_826ISS_00003	Amount Added:	5.00	Units: uL	Run Reagent

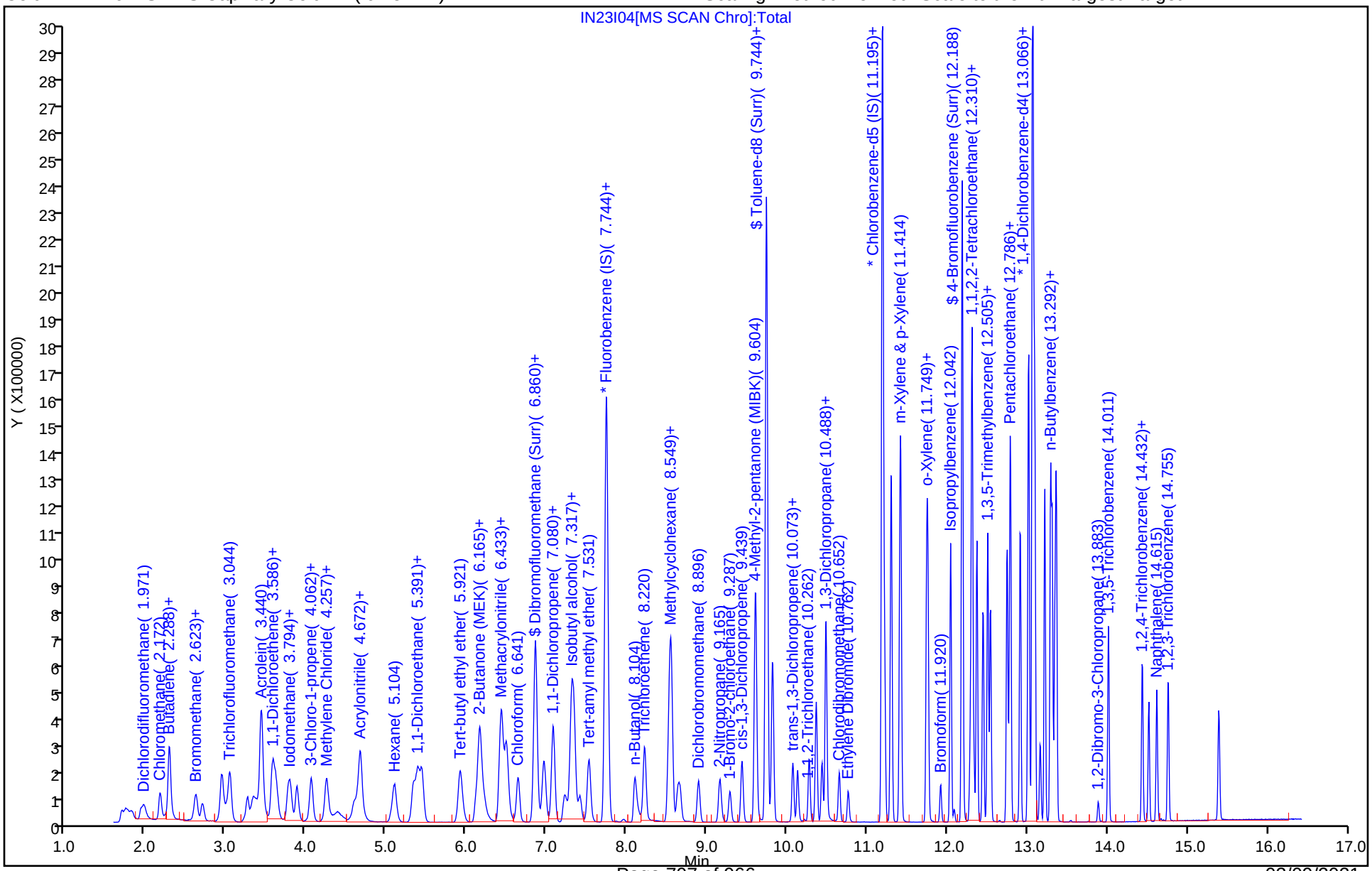
Report Date: 23-Nov-2020 19:11:12 Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I04.D

Injection Date:	23-Nov-2020 13:49:30	Instrument ID:	19930	Operator ID:	dvv10203
Lims ID:	IC std4			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: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

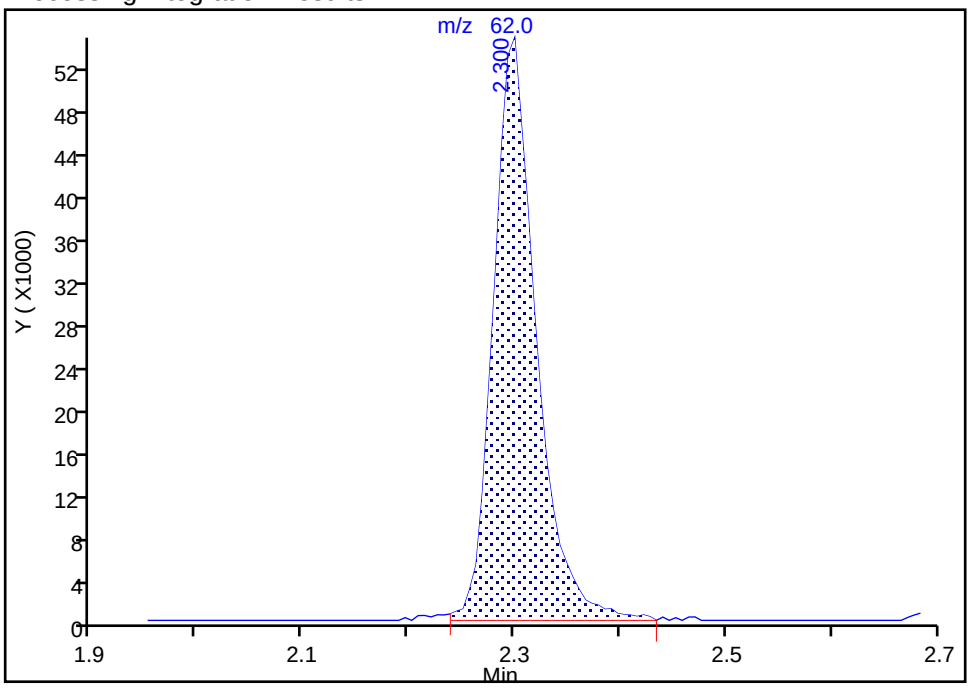
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I04.D				
Injection Date:	23-Nov-2020 13:49:30	Instrument ID:	19930		
Lims ID:	IC std4				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

5 Vinyl chloride, CAS: 75-01-4

Signal: 1

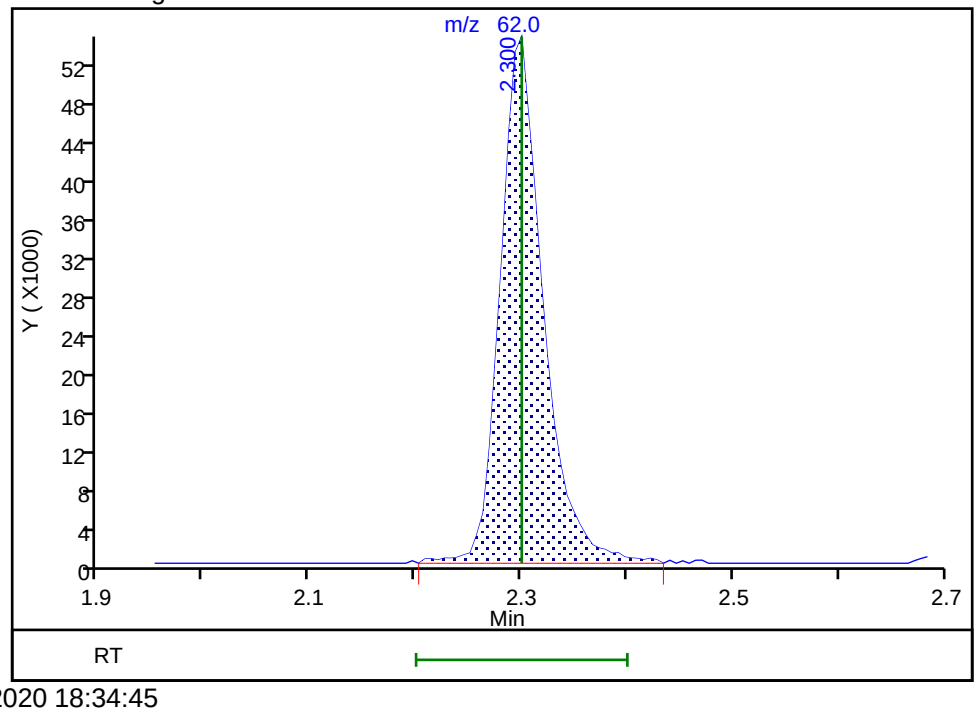
Processing Integration Results

RT: 2.30
Area: 154150
Amount: 2.050762
Amount Units: ug/l



Manual Integration Results

RT: 2.30
Area: 154985
Amount: 2.057195
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:34:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

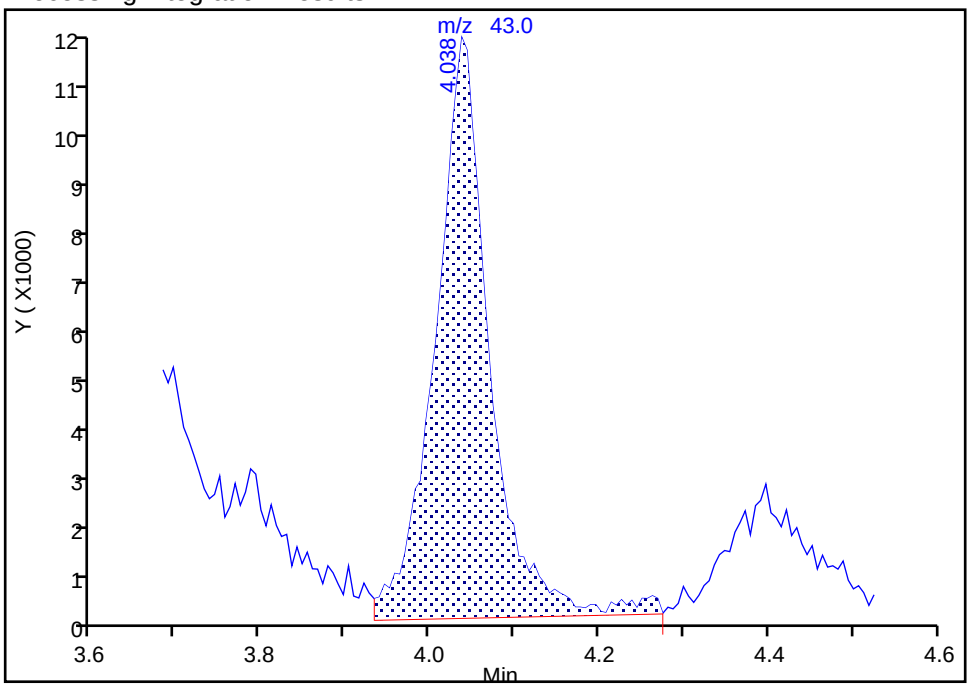
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I04.D				
Injection Date:	23-Nov-2020 13:49:30	Instrument ID:	19930		
Lims ID:	IC std4				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Methyl acetate, CAS: 79-20-9

Signal: 1

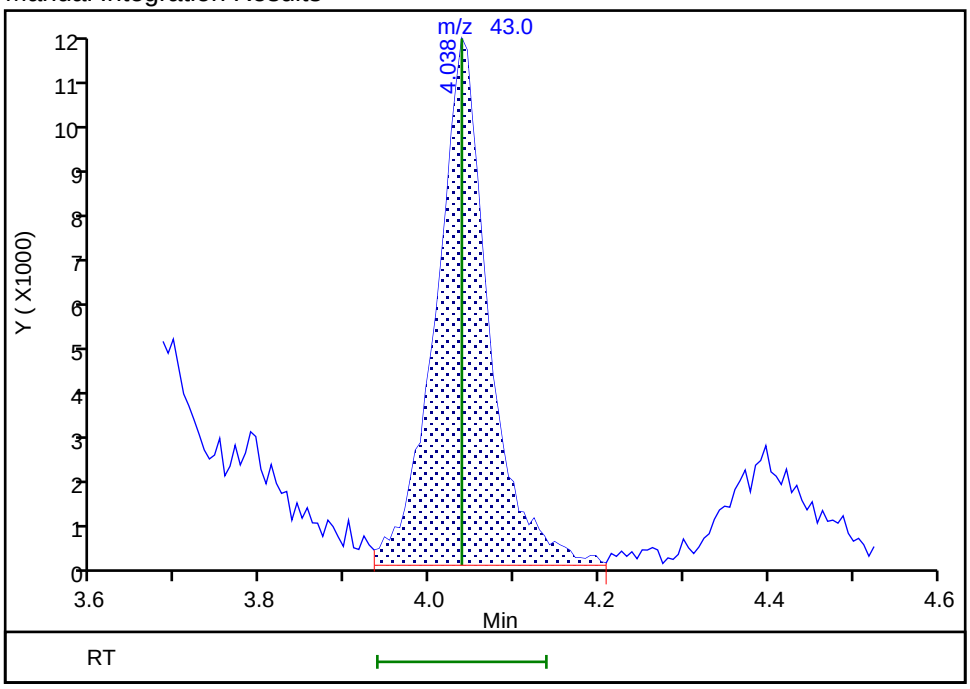
Processing Integration Results

RT: 4.04
Area: 51391
Amount: 2.103964
Amount Units: ug/l



Manual Integration Results

RT: 4.04
Area: 49588
Amount: 2.032214
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:35:10

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

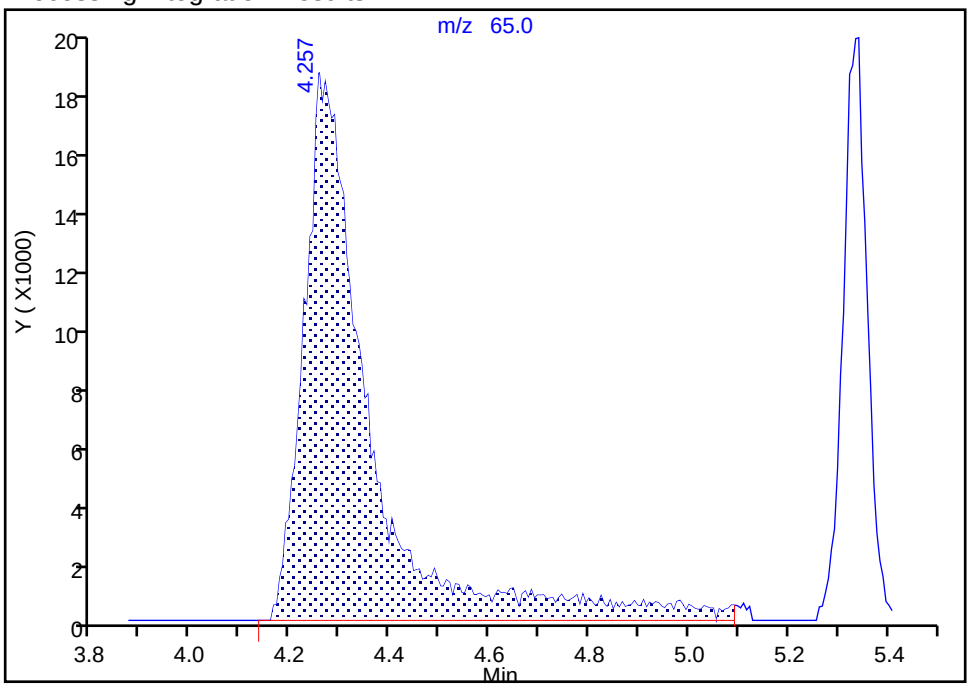
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I04.D				
Injection Date:	23-Nov-2020 13:49:30	Instrument ID:	19930		
Lims ID:	IC std4				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 24 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

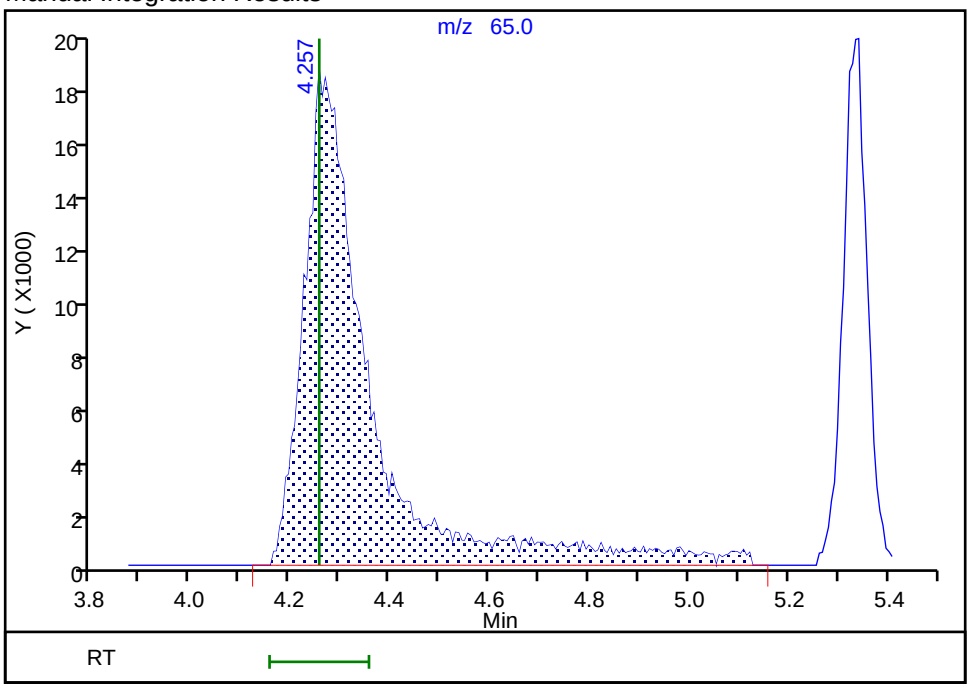
Processing Integration Results

RT: 4.26
Area: 163232
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.26
Area: 164063
Amount: 50.000000
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:43:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

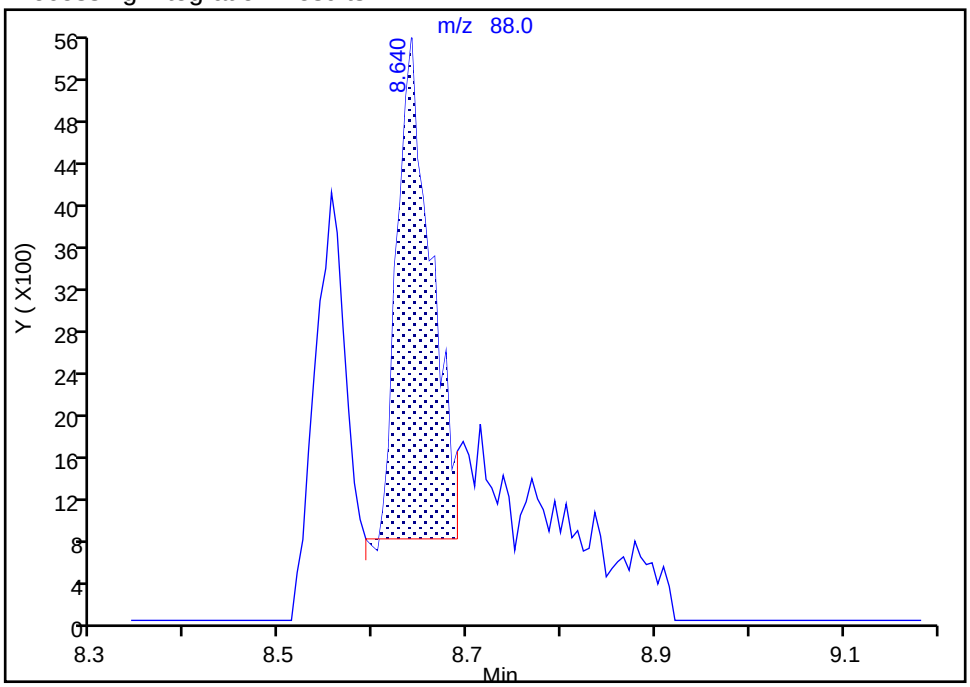
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I04.D				
Injection Date:	23-Nov-2020 13:49:30	Instrument ID:	19930		
Lims ID:	IC std4				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

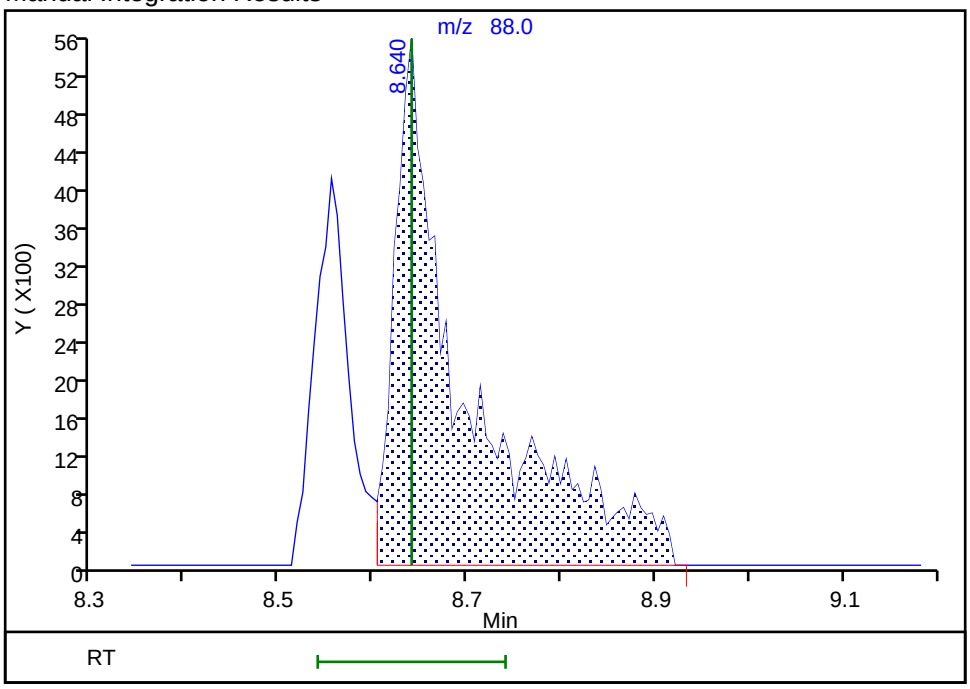
Processing Integration Results

RT: 8.64
Area: 11861
Amount: 59.983350
Amount Units: ug/l



Manual Integration Results

RT: 8.64
Area: 28458
Amount: 102.5140
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:35:36

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\20201123-16280.b\IN23I05.D
Lims ID: IC std3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Nov-2020 14:10:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0016280-007
Misc. Info.: IC STD3
Operator ID: dvv10203 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 23-Nov-2020 19:11:21 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: campbellme Date: 23-Nov-2020 18:37:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.965	1.971	-0.006	99	69362	1.00	0.9783	
4 Chloromethane	50	2.172	2.172	0.000	99	83265	1.00	1.01	
6 Butadiene	39	2.288	2.288	0.000	88	72377	1.00	1.03	
5 Vinyl chloride	62	2.294	2.300	-0.006	83	75517	1.00	1.00	
7 Bromomethane	94	2.623	2.623	0.000	90	55449	1.00	1.01	
8 Chloroethane	64	2.709	2.709	0.000	99	47287	1.00	1.02	
9 Dichlorofluoromethane	67	2.940	2.940	0.000	97	107260	1.00	1.03	
10 Trichlorofluoromethane	101	3.026	3.019	0.007	96	97236	1.00	0.99	
11 Ethyl ether	59	3.263	3.269	-0.006	91	43027	1.00	0.9801	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.349	3.336	0.013	92	68727	1.00	1.00	
13 Acrolein	56	3.434	3.440	-0.006	99	356505	50.0	52.3	
14 1,1-Dichloroethene	96	3.574	3.580	-0.006	97	53597	1.00	1.01	
15 Acetone	43	3.611	3.605	0.006	99	89478	10.0	10.6	
16 112TCTFE	101	3.617	3.617	0.000	87	56328	1.00	1.01	
17 Iodomethane	142	3.776	3.775	0.001	99	104837	1.00	1.01	
18 Ethyl bromide	108	3.800	3.806	-0.006	98	48514	1.00	1.01	
19 Carbon disulfide	76	3.879	3.885	-0.006	99	153230	1.00	1.00	
21 Methyl acetate	43	4.026	4.038	-0.012	96	23815	1.00	1.03	M
22 3-Chloro-1-propene	41	4.062	4.062	0.000	92	79611	1.00	0.9886	
23 Methylene Chloride	84	4.245	4.251	-0.006	92	59944	1.00	1.02	
* 24 t-Butyl alcohol-d10 (IS)	65	4.269	4.257	0.012	0	155400	50.0	50.0	M
25 2-Methyl-2-propanol	59	4.397	4.385	0.012	99	71679	20.0	21.6	
26 Acrylonitrile	53	4.605	4.592	0.013	99	55793	5.00	5.05	
27 Methyl tert-butyl ether	73	4.660	4.659	0.001	93	140981	1.00	0.99	
28 trans-1,2-Dichloroethene	96	4.672	4.678	-0.006	99	59305	1.00	1.01	
29 Hexane	57	5.098	5.104	-0.006	91	77187	1.00	0.9643	
31 1,1-Dichloroethane	63	5.336	5.336	0.000	96	106846	1.00	1.01	
32 Isopropyl ether	45	5.385	5.391	-0.006	94	175266	1.00	1.00	
33 2-Chloro-1,3-butadiene	53	5.446	5.446	0.000	89	83699	1.00	0.9860	
34 Tert-butyl ethyl ether	59	5.921	5.921	0.000	97	164798	1.00	1.00	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 2-Butanone (MEK)	43	6.129	6.135	-0.006	99	150873	10.0	10.6	
S 35 1,2-Dichloroethene, Total	100				0			2.00	
37 cis-1,2-Dichloroethene	96	6.165	6.165	0.000	82	67080	1.00	0.9872	
38 2,2-Dichloropropane	77	6.171	6.177	-0.006	85	84205	1.00	0.99	
40 Propionitrile	54	6.232	6.220	0.012	99	86963	20.0	21.0	
42 Methacrylonitrile	67	6.434	6.433	0.001	90	153916	10.0	10.5	
43 Chlorobromomethane	128	6.495	6.494	0.001	90	30494	1.00	1.02	
44 Tetrahydrofuran	71	6.507	6.507	0.000	81	44982	10.0	10.5	
45 Chloroform	83	6.641	6.647	-0.006	93	105267	1.00	1.01	
$ 46 Dibromofluoromethane (Surr)	113	6.854	6.860	-0.006	94	494666	10.0	10.1	
47 1,1,1-Trichloroethane	97	6.866	6.866	0.000	98	93768	1.00	1.00	
48 Cyclohexane	56	6.964	6.964	0.000	88	97796	1.00	1.01	
50 Carbon tetrachloride	117	7.080	7.080	0.000	89	82099	1.00	0.9797	
51 1,1-Dichloropropene	75	7.080	7.080	0.000	97	83811	1.00	1.01	
52 Isobutyl alcohol	41	7.238	7.232	0.006	96	56751	50.0	53.3	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.311	7.311	0.000	0	97982	10.0	9.91	
54 Benzene	78	7.342	7.342	0.000	95	255028	1.00	1.01	
56 1,2-Dichloroethane	62	7.415	7.415	0.000	97	62354	1.00	1.01	
57 Tert-amyl methyl ether	73	7.531	7.531	0.000	99	149782	1.00	0.99	
* 58 Fluorobenzene (IS)	96	7.744	7.744	0.000	99	1986644	10.0	10.0	
59 n-Heptane	43	7.756	7.756	0.000	89	78839	1.00	0.9808	
60 n-Butanol	56	8.104	8.104	0.000	86	100598	100.0	99.9	M
61 Trichloroethene	95	8.220	8.220	0.000	97	66585	1.00	1.01	
62 Methylcyclohexane	83	8.531	8.531	0.000	94	107810	1.00	1.01	
63 1,2-Dichloropropane	63	8.555	8.555	0.000	74	61945	1.00	1.00	
64 Methyl methacrylate	69	8.640	8.634	0.006	88	27597	1.00	1.02	
65 1,4-Dioxane	88	8.665	8.640	0.025	38	14289	50.0	54.3	M
66 Dibromomethane	93	8.665	8.665	0.000	93	29139	1.00	1.00	
68 Dichlorobromomethane	83	8.897	8.896	0.000	99	73650	1.00	0.99	
69 2-Nitropropane	41	9.165	9.165	0.000	98	70105	10.0	10.3	
72 1-Bromo-2-chloroethane	63	9.287	9.287	0.000	98	61799	1.00	0.9706	
73 cis-1,3-Dichloropropene	75	9.439	9.439	0.000	98	88193	1.00	0.99	
74 4-Methyl-2-pentanone (MIBK)	43	9.604	9.604	0.000	95	367338	10.0	10.4	
$ 75 Toluene-d8 (Surr)	98	9.744	9.744	0.000	93	1946658	10.0	10.0	
76 Toluene	92	9.817	9.817	0.000	98	163309	1.00	1.01	
S 77 1,3-Dichloropropene, Total	100				0			1.95	
78 trans-1,3-Dichloropropene	75	10.073	10.073	0.000	91	66719	1.00	0.9548	
79 Ethyl methacrylate	69	10.134	10.134	0.000	87	56537	1.00	0.9669	
80 1,1,2-Trichloroethane	97	10.274	10.280	-0.006	90	43173	1.00	1.00	
81 Tetrachloroethene	166	10.366	10.366	0.000	97	78353	1.00	1.00	
82 1,3-Dichloropropane	76	10.439	10.439	0.000	88	73951	1.00	1.00	
83 2-Hexanone	43	10.488	10.488	0.000	96	248990	10.0	10.3	
85 Chlorodibromomethane	129	10.652	10.652	0.000	89	53438	1.00	0.9848	
86 Ethylene Dibromide	107	10.762	10.762	0.000	99	41931	1.00	1.01	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	0.000	86	1484400	10.0	10.0	
88 1-Chlorohexane	91	11.195	11.195	0.000	94	92173	1.00	0.9820	
90 Chlorobenzene	112	11.219	11.219	0.000	96	180463	1.00	1.01	
S 89 Xylenes, Total	106				0			3.02	
91 1,1,1,2-Tetrachloroethane	131	11.298	11.298	0.000	94	62455	1.00	1.01	
92 Ethylbenzene	91	11.305	11.304	0.001	98	316536	1.00	1.01	
93 m-Xylene & p-Xylene	106	11.414	11.414	0.000	100	248538	2.00	2.01	
94 o-Xylene	106	11.744	11.743	0.001	96	120780	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
95 Styrene	104	11.762	11.762	0.000	94	192855	1.00	1.00	
96 Bromoform	173	11.920	11.920	0.000	96	31282	1.00	0.9538	
97 Isopropylbenzene	105	12.042	12.042	0.000	95	319375	1.00	1.00	
$ 100 4-Bromofluorobenzene (Surr)	95	12.189	12.188	0.001	94	720224	10.0	10.0	
101 1,1,2,2-Tetrachloroethane	83	12.286	12.286	0.000	93	54415	1.00	0.9874	
102 Bromobenzene	156	12.304	12.304	0.000	96	77108	1.00	1.01	
103 trans-1,4-Dichloro-2-butene	53	12.310	12.310	0.000	92	115432	10.0	9.98	
104 1,2,3-Trichloropropane	110	12.335	12.335	0.000	82	15158	1.00	1.00	
105 N-Propylbenzene	91	12.371	12.371	0.000	99	377314	1.00	1.01	
106 2-Chlorotoluene	126	12.445	12.451	-0.006	97	77621	1.00	1.02	
107 1,3,5-Trimethylbenzene	105	12.506	12.505	0.001	94	267681	1.00	1.00	
108 4-Chlorotoluene	126	12.542	12.542	0.000	96	79642	1.00	1.04	
109 tert-Butylbenzene	134	12.749	12.749	0.000	93	60636	1.00	1.01	
110 Pentachloroethane	167	12.780	12.780	0.000	92	46998	1.00	0.9857	
111 1,2,4-Trimethylbenzene	105	12.792	12.792	0.000	97	274837	1.00	1.01	
112 sec-Butylbenzene	105	12.914	12.914	0.000	94	351677	1.00	1.01	
113 1,3-Dichlorobenzene	146	13.012	13.011	0.001	98	153078	1.00	1.00	
114 4-Isopropyltoluene	119	13.018	13.018	0.000	97	296994	1.00	1.00	
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	94	843985	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.085	13.085	0.000	95	154536	1.00	1.01	
117 1,2,3-Trimethylbenzene	120	13.091	13.097	-0.006	98	121041	1.00	1.01	
118 Benzyl chloride	126	13.158	13.164	-0.006	98	19573	1.00	0.9395	
119 n-Butylbenzene	92	13.310	13.310	0.000	97	144659	1.00	0.99	
120 1,2-Dichlorobenzene	146	13.347	13.347	0.000	99	143545	1.00	1.03	
122 1,2-Dibromo-3-Chloropropane	155	13.883	13.883	0.000	90	8336	1.00	0.9851	
123 1,3,5-Trichlorobenzene	180	14.011	14.011	0.000	98	107909	1.00	0.9789	
124 1,2,4-Trichlorobenzene	180	14.432	14.438	-0.006	94	89195	1.00	0.9731	
125 Hexachlorobutadiene	225	14.517	14.517	0.000	96	39405	1.00	0.9886	
126 Naphthalene	128	14.615	14.615	0.000	96	165305	1.00	0.9650	
127 1,2,3-Trichlorobenzene	180	14.755	14.761	-0.006	96	78201	1.00	0.9887	
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	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00030	Amount Added:	2.00	Units: uL	
MSV_RV4GAS826_00096	Amount Added:	2.00	Units: uL	
MSV_RV4_826_00034	Amount Added:	2.00	Units: uL	
MSV_31_826ISS_00003	Amount Added:	5.00	Units: uL	Run Reagent

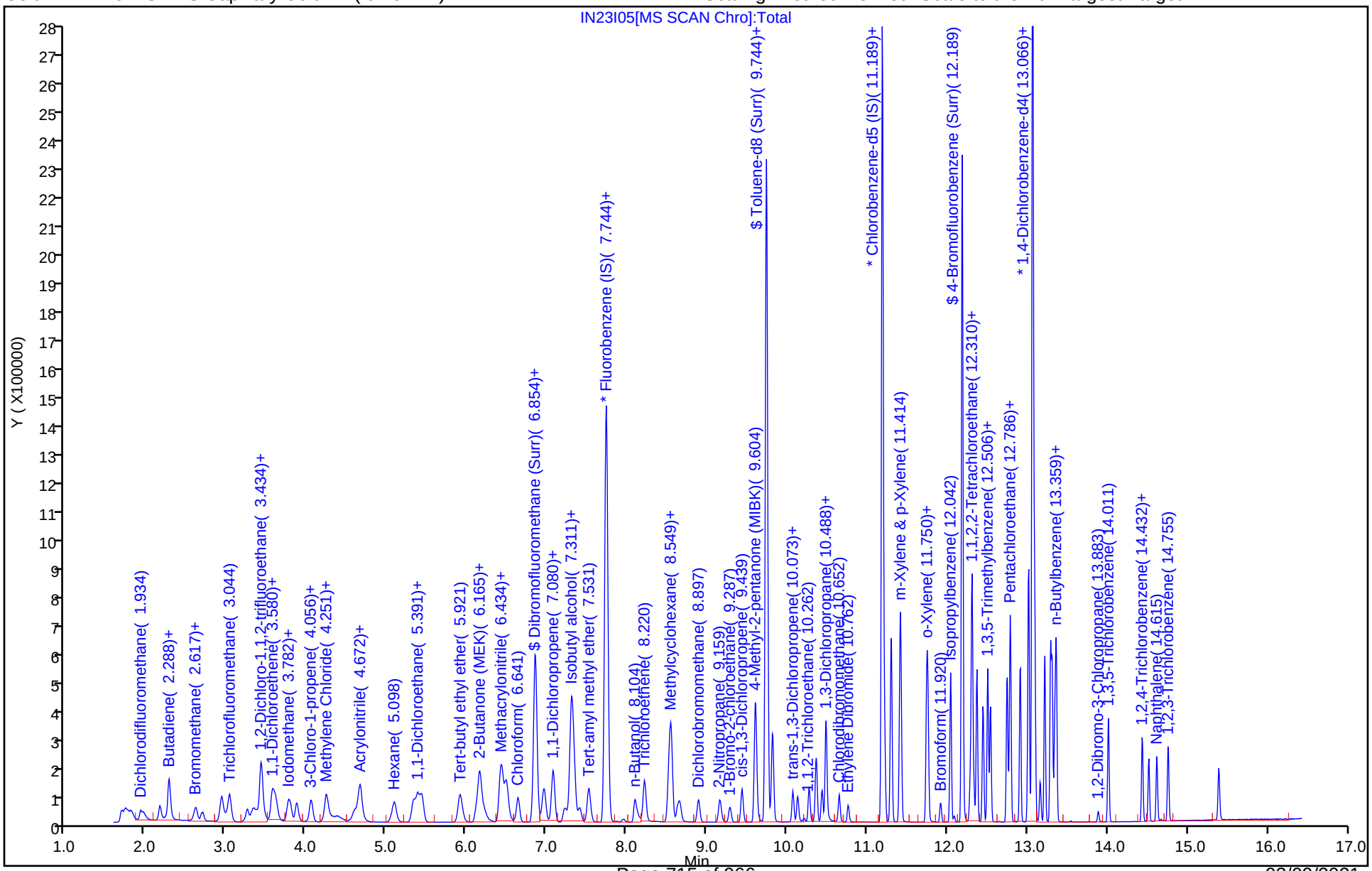
Report Date: 23-Nov-2020 19:11:23 Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I05.D

Injection Date:	23-Nov-2020 14:10:30	Instrument ID:	19930	Operator ID:	dvv10203
Lims ID:	IC std3			Worklist Smp#:	7
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

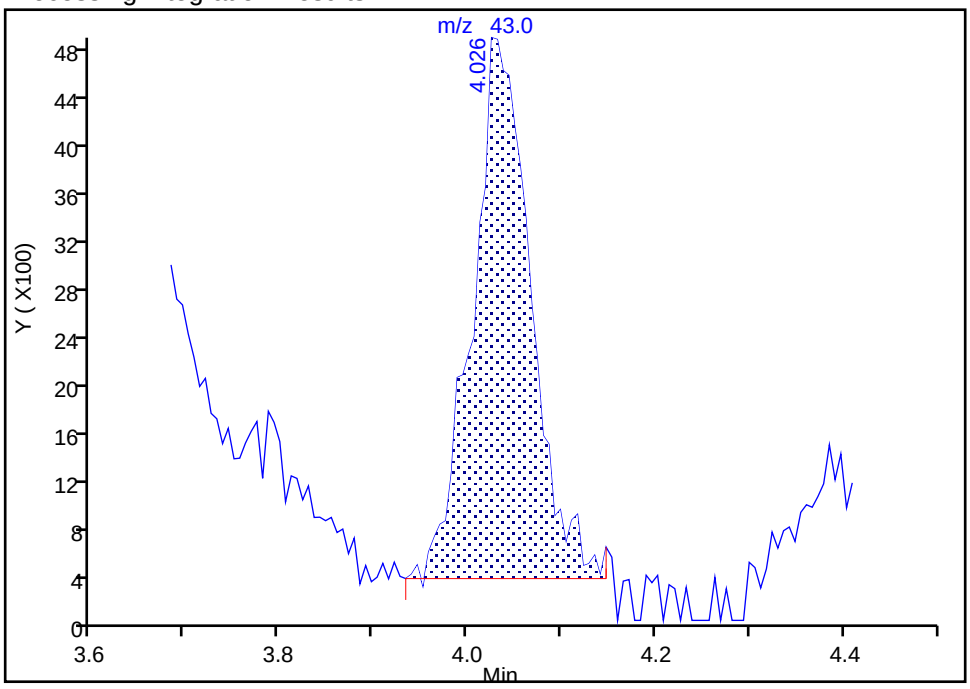
Data File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I05.D
Injection Date: 23-Nov-2020 14:10:30 Instrument ID: 19930
Lims ID: IC std3
Client ID:
Operator ID: dvv10203 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

21 Methyl acetate, CAS: 79-20-9

Signal: 1

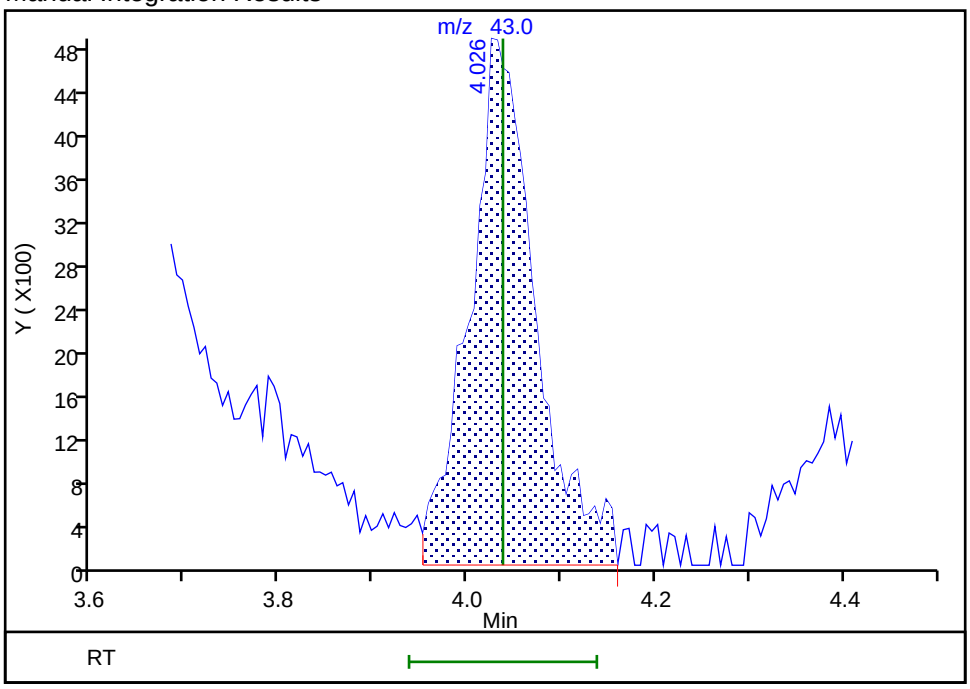
Processing Integration Results

RT: 4.03
Area: 19487
Amount: 0.861588
Amount Units: ug/l



Manual Integration Results

RT: 4.03
Area: 23815
Amount: 1.030393
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:36:34
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

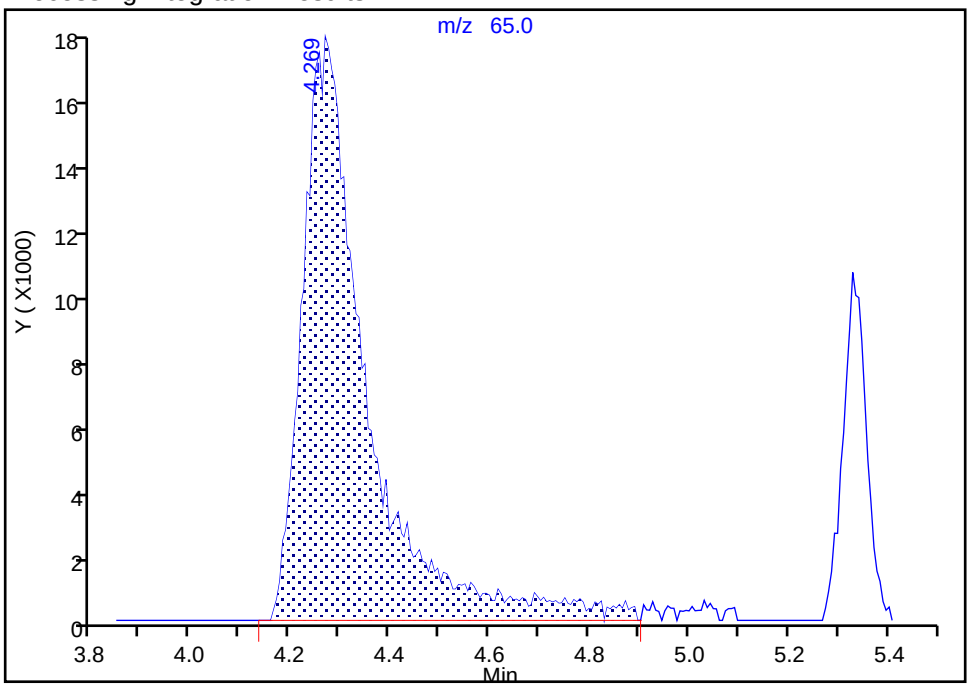
Data File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I05.D
Injection Date: 23-Nov-2020 14:10:30 Instrument ID: 19930
Lims ID: IC std3
Client ID:
Operator ID: dvv10203 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 24 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

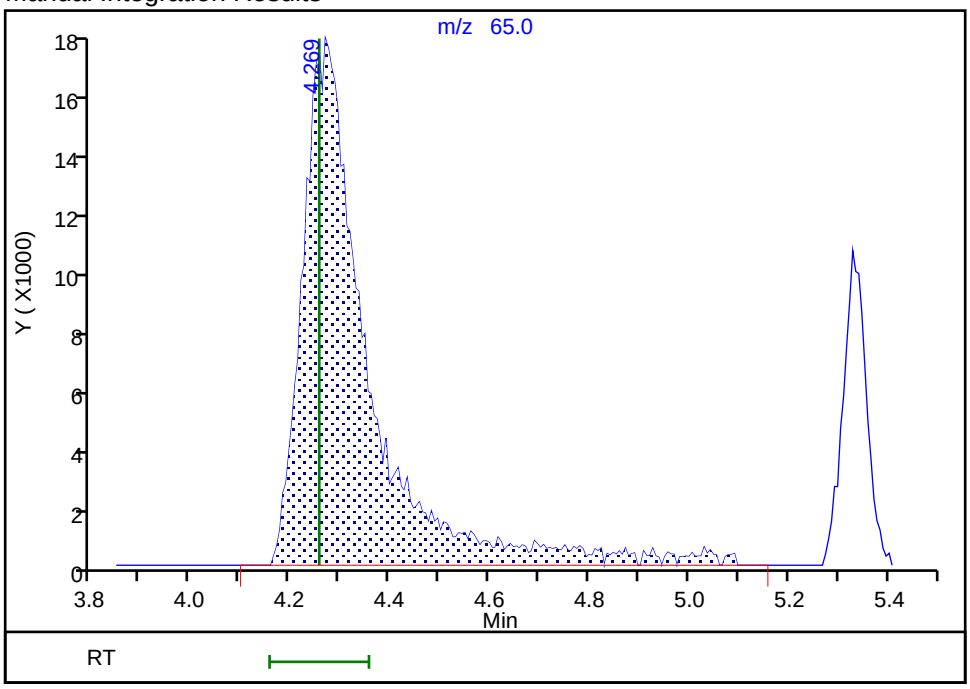
Processing Integration Results

RT: 4.27
Area: 151949
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.27
Area: 155400
Amount: 50.000000
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:43:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

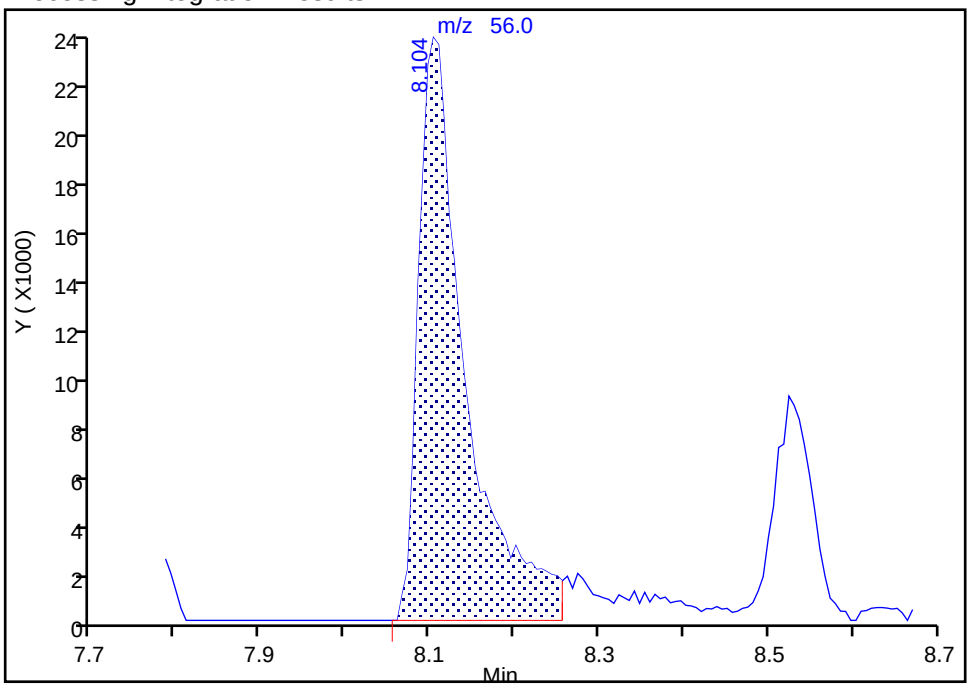
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I05.D				
Injection Date:	23-Nov-2020 14:10:30	Instrument ID:	19930		
Lims ID:	IC std3				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

60 n-Butanol, CAS: 71-36-3

Signal: 1

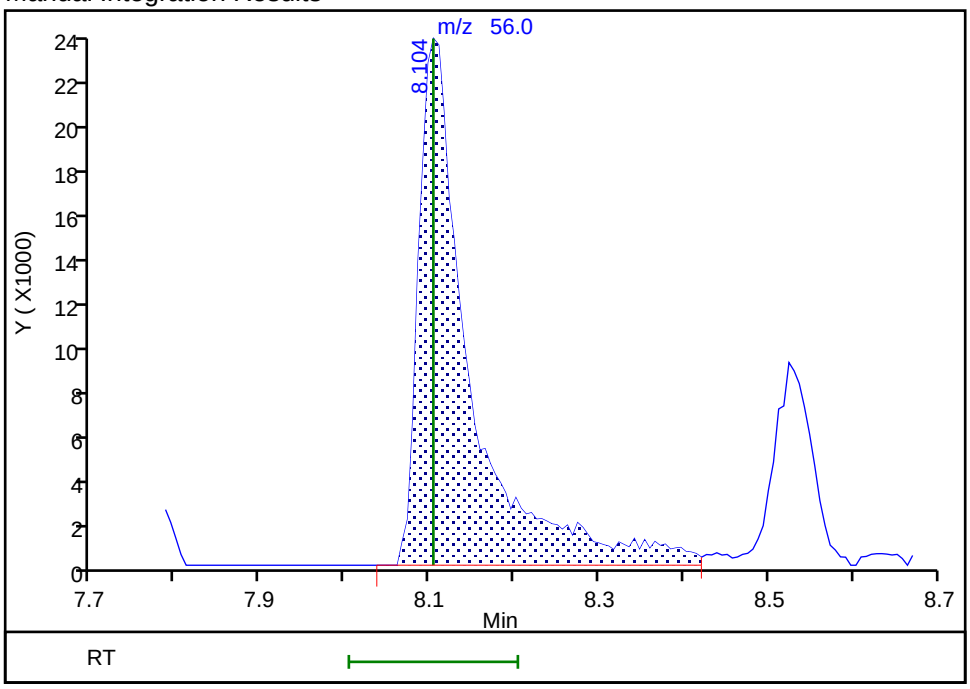
Processing Integration Results

RT: 8.10
Area: 91048
Amount: 95.703762
Amount Units: ug/l



Manual Integration Results

RT: 8.10
Area: 100598
Amount: 99.874913
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:37:04

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

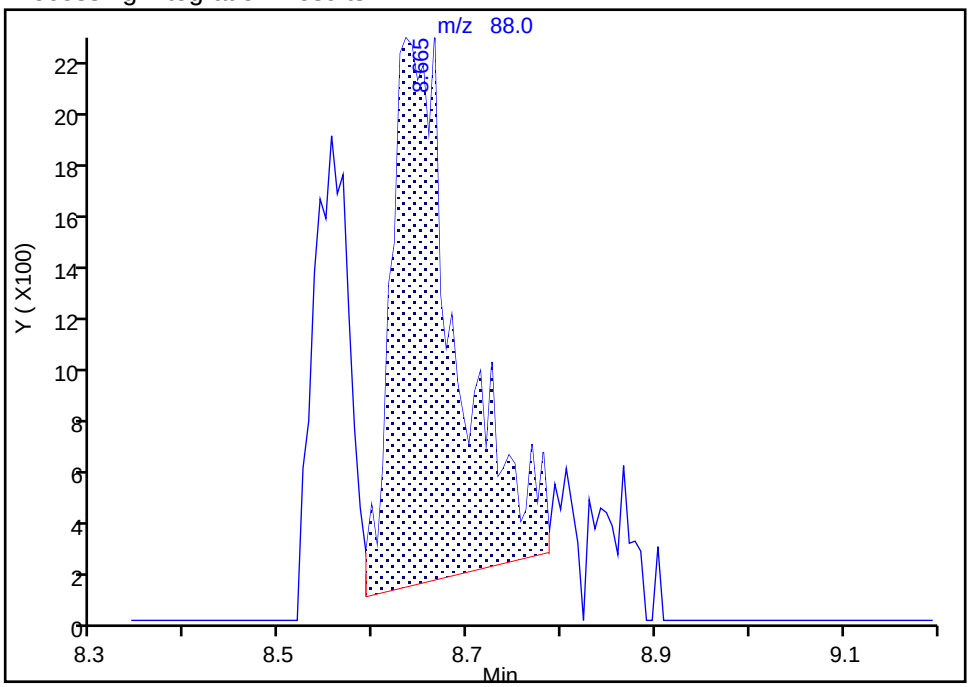
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I05.D				
Injection Date:	23-Nov-2020 14:10:30	Instrument ID:	19930		
Lims ID:	IC std3				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit 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

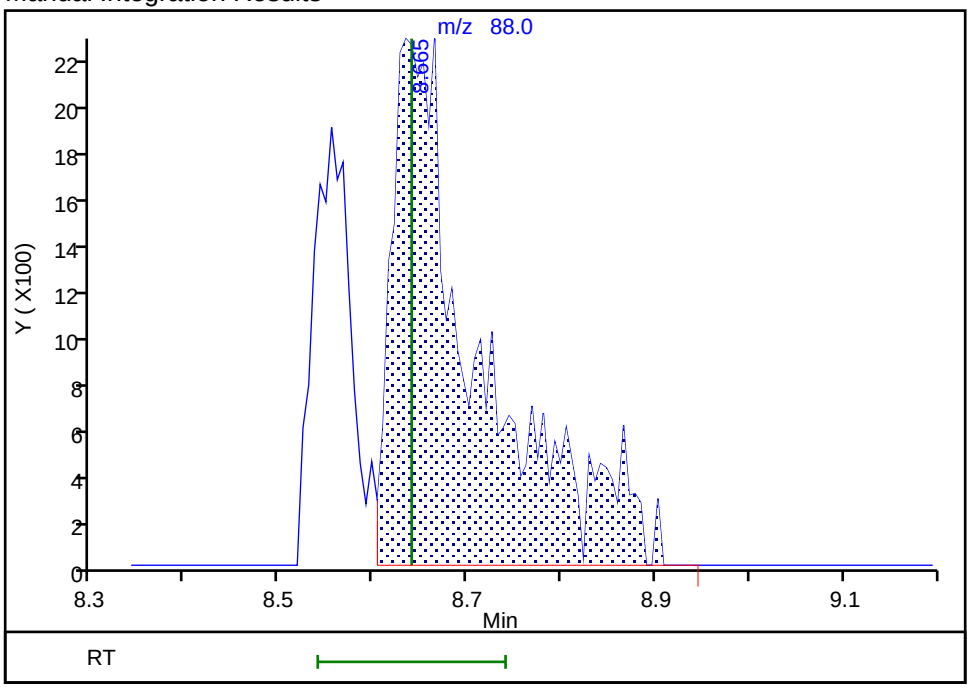
Processing Integration Results

RT: 8.66
Area: 10152
Amount: 48.384404
Amount Units: ug/l



Manual Integration Results

RT: 8.66
Area: 14289
Amount: 54.342576
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:37:22

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\20201123-16280.b\IN23I06.D
Lims ID: IC std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Nov-2020 14:31:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0016280-008
Misc. Info.: IC STD2
Operator ID: dvv10203 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 23-Nov-2020 19:11:31 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: campbellme Date: 23-Nov-2020 18:39:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.977	1.971	0.006	98	34344	0.5000	0.4823	
4 Chloromethane	50	2.172	2.172	0.000	99	41148	0.5000	0.4980	
6 Butadiene	39	2.288	2.288	0.000	89	38419	0.5000	0.5445	
5 Vinyl chloride	62	2.294	2.300	-0.006	87	36555	0.5000	0.4806	M
7 Bromomethane	94	2.617	2.623	-0.006	90	28022	0.5000	0.5081	
8 Chloroethane	64	2.703	2.709	-0.006	99	22787	0.5000	0.4874	
9 Dichlorofluoromethane	67	2.946	2.940	0.006	97	51472	0.5000	0.4915	
10 Trichlorofluoromethane	101	3.007	3.019	-0.012	96	49221	0.5000	0.5000	
11 Ethyl ether	59	3.263	3.269	-0.006	89	22487	0.5001	0.5100	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.349	3.336	0.013	94	35000	0.5000	0.5068	
13 Acrolein	56	3.434	3.440	-0.006	100	175165	25.0	25.5	
14 1,1-Dichloroethene	96	3.580	3.580	0.000	96	26846	0.5000	0.5047	
15 Acetone	43	3.611	3.605	0.006	99	46105	5.00	5.40	M
16 112TCTFE	101	3.611	3.617	-0.006	88	28017	0.5000	0.4982	
17 Iodomethane	142	3.776	3.775	0.001	98	52202	0.5000	0.5022	
18 Ethyl bromide	108	3.806	3.806	0.000	91	24475	0.5000	0.5060	
19 Carbon disulfide	76	3.885	3.885	0.000	98	77344	0.5000	0.5015	
21 Methyl acetate	43	4.038	4.038	0.000	99	12227	0.5000	0.5246	M
22 3-Chloro-1-propene	41	4.062	4.062	0.000	92	40080	0.5000	0.4956	
23 Methylene Chloride	84	4.251	4.251	0.000	92	30241	0.5000	0.5130	
* 24 t-Butyl alcohol-d10 (IS)	65	4.251	4.257	-0.006	0	156713	50.0	50.0	M
25 2-Methyl-2-propanol	59	4.397	4.385	0.012	97	32201	10.0	9.64	
26 Acrylonitrile	53	4.605	4.592	0.013	98	28136	2.50	2.52	
27 Methyl tert-butyl ether	73	4.666	4.659	0.007	95	69855	0.5000	0.4906	
28 trans-1,2-Dichloroethene	96	4.678	4.678	0.000	98	29336	0.5000	0.4994	
29 Hexane	57	5.098	5.104	-0.006	90	37410	0.5000	0.4654	
31 1,1-Dichloroethane	63	5.330	5.336	-0.006	96	53737	0.5000	0.5061	
32 Isopropyl ether	45	5.397	5.391	0.006	93	87812	0.5000	0.5003	
33 2-Chloro-1,3-butadiene	53	5.446	5.446	0.000	89	42465	0.5000	0.4981	
34 Tert-butyl ethyl ether	59	5.921	5.921	0.000	97	81982	0.5000	0.4947	

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	6.135	-0.006	99	70495	5.00	4.93	
S 35 1,2-Dichloroethene, Total	100				0			1.01	
37 cis-1,2-Dichloroethene	96	6.159	6.165	-0.006	79	35111	0.5000	0.5145	
38 2,2-Dichloropropane	77	6.190	6.177	0.013	84	42478	0.5000	0.4975	
40 Propionitrile	54	6.226	6.220	0.006	99	42851	10.0	10.3	
42 Methacrylonitrile	67	6.434	6.433	0.001	90	74760	5.00	5.08	
43 Chlorobromomethane	128	6.494	6.494	0.000	78	14772	0.5000	0.4913	
44 Tetrahydrofuran	71	6.501	6.507	-0.006	87	22107	5.00	5.10	a
45 Chloroform	83	6.641	6.647	-0.006	93	53281	0.5000	0.5092	
$ 46 Dibromofluoromethane (Surr)	113	6.854	6.860	-0.006	94	494112	10.0	10.0	
47 1,1,1-Trichloroethane	97	6.872	6.866	0.006	96	47326	0.5000	0.5034	
48 Cyclohexane	56	6.964	6.964	0.000	89	47588	0.5000	0.4884	
50 Carbon tetrachloride	117	7.080	7.080	0.000	93	41561	0.5000	0.4939	
51 1,1-Dichloropropene	75	7.086	7.080	0.006	95	40536	0.5000	0.4858	
52 Isobutyl alcohol	41	7.226	7.232	-0.006	95	25076	25.0	23.3	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.311	7.311	0.000	0	99445	10.0	10.0	
54 Benzene	78	7.342	7.342	0.000	92	127834	0.5000	0.5057	
56 1,2-Dichloroethane	62	7.415	7.415	0.000	97	31335	0.5000	0.5077	
57 Tert-amyl methyl ether	73	7.525	7.531	-0.006	99	74955	0.5000	0.4937	
* 58 Fluorobenzene (IS)	96	7.744	7.744	0.000	99	1995085	10.0	10.0	
59 n-Heptane	43	7.750	7.756	-0.006	66	38350	0.5000	0.4751	
60 n-Butanol	56	8.110	8.104	0.006	88	49414	50.0	48.6	M
61 Trichloroethene	95	8.220	8.220	0.000	96	33485	0.5000	0.5061	
62 Methylcyclohexane	83	8.525	8.531	-0.006	89	50862	0.5000	0.4732	
63 1,2-Dichloropropane	63	8.549	8.555	-0.006	75	31387	0.5000	0.5052	
64 Methyl methacrylate	69	8.634	8.634	0.000	89	13518	0.5000	0.4933	
65 1,4-Dioxane	88	8.634	8.640	-0.006	39	7023	25.0	26.5	M
66 Dibromomethane	93	8.653	8.665	-0.012	95	15063	0.5000	0.5129	
68 Dichlorobromomethane	83	8.896	8.896	0.000	99	36362	0.5000	0.4883	
69 2-Nitropropane	41	9.159	9.165	-0.006	100	33733	5.00	4.90	
72 1-Bromo-2-chloroethane	63	9.287	9.287	0.000	98	31186	0.5000	0.4877	
73 cis-1,3-Dichloropropene	75	9.445	9.439	0.006	98	42882	0.5000	0.4801	
74 4-Methyl-2-pentanone (MIBK)	43	9.610	9.604	0.006	95	177180	5.00	4.98	
$ 75 Toluene-d8 (Surr)	98	9.744	9.744	0.000	93	1963991	10.0	10.1	
76 Toluene	92	9.823	9.817	0.006	99	83094	0.5000	0.5124	
S 77 1,3-Dichloropropene, Total	100				0			0.9696	
78 trans-1,3-Dichloropropene	75	10.073	10.073	0.000	90	34273	0.5000	0.4895	
79 Ethyl methacrylate	69	10.134	10.134	0.000	86	27584	0.5000	0.4708	
80 1,1,2-Trichloroethane	97	10.280	10.280	0.000	90	21447	0.5000	0.4955	
81 Tetrachloroethene	166	10.366	10.366	0.000	97	39857	0.5000	0.5077	
82 1,3-Dichloropropane	76	10.439	10.439	0.000	86	36303	0.5000	0.4910	
83 2-Hexanone	43	10.488	10.488	0.000	95	115600	5.00	4.76	
85 Chlorodibromomethane	129	10.652	10.652	0.000	90	25811	0.5000	0.4747	
86 Ethylene Dibromide	107	10.762	10.762	0.000	98	19726	0.5000	0.4758	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	0.000	85	1487373	10.0	10.0	
88 1-Chlorohexane	91	11.195	11.195	0.000	94	46957	0.5000	0.4993	
90 Chlorobenzene	112	11.219	11.219	0.000	96	91441	0.5000	0.5100	
S 89 Xylenes, Total	106				0			1.49	
91 1,1,1,2-Tetrachloroethane	131	11.298	11.298	0.000	96	29836	0.5000	0.4793	
92 Ethylbenzene	91	11.305	11.304	0.001	98	158639	0.5000	0.5065	
93 m-Xylene & p-Xylene	106	11.420	11.414	0.006	100	122512	1.00	0.99	
94 o-Xylene	106	11.743	11.743	0.000	96	59608	0.5000	0.4961	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
95 Styrene	104	11.762	11.762	0.000	94	91755	0.5000	0.4770	
96 Bromoform	173	11.920	11.920	0.000	97	15681	0.5000	0.4771	
97 Isopropylbenzene	105	12.042	12.042	0.000	95	158348	0.5000	0.4961	
$ 100 4-Bromofluorobenzene (Surr)	95	12.189	12.188	0.000	94	723803	10.0	10.1	
101 1,1,2,2-Tetrachloroethane	83	12.286	12.286	0.000	94	27114	0.5000	0.4840	
102 Bromobenzene	156	12.304	12.304	0.000	97	38254	0.5000	0.4952	
103 trans-1,4-Dichloro-2-butene	53	12.310	12.310	0.000	94	55037	5.00	4.72	
104 1,2,3-Trichloropropane	110	12.335	12.335	0.000	79	7306	0.5000	0.4753	
105 N-Propylbenzene	91	12.371	12.371	0.000	98	190665	0.5000	0.5036	
106 2-Chlorotoluene	126	12.445	12.451	-0.006	97	38057	0.5000	0.4916	
107 1,3,5-Trimethylbenzene	105	12.506	12.505	0.001	93	135280	0.5000	0.4996	
108 4-Chlorotoluene	126	12.542	12.542	0.000	96	38382	0.5000	0.4910	
109 tert-Butylbenzene	134	12.749	12.749	0.000	93	29282	0.5000	0.4788	
110 Pentachloroethane	167	12.780	12.780	0.000	79	23377	0.5000	0.4823	
111 1,2,4-Trimethylbenzene	105	12.792	12.792	0.000	97	136133	0.5000	0.4944	
112 sec-Butylbenzene	105	12.908	12.914	-0.006	93	174344	0.5000	0.4909	
113 1,3-Dichlorobenzene	146	13.012	13.011	0.001	98	76688	0.5000	0.4930	
114 4-Isopropyltoluene	119	13.018	13.018	0.000	97	149012	0.5000	0.4921	
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	94	857933	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.085	13.085	0.000	93	76626	0.5000	0.4927	
117 1,2,3-Trimethylbenzene	120	13.097	13.097	0.000	97	59495	0.5000	0.4871	
118 Benzyl chloride	126	13.164	13.164	0.000	98	9048	0.5000	0.4272	
119 n-Butylbenzene	92	13.310	13.310	0.000	97	71903	0.5000	0.4862	
120 1,2-Dichlorobenzene	146	13.347	13.347	0.000	98	69967	0.5000	0.4931	
122 1,2-Dibromo-3-Chloropropane	155	13.889	13.883	0.006	89	4105	0.5000	0.4772	
123 1,3,5-Trichlorobenzene	180	14.011	14.011	0.000	97	55307	0.5000	0.4936	
124 1,2,4-Trichlorobenzene	180	14.432	14.438	-0.006	94	45049	0.5000	0.4835	
125 Hexachlorobutadiene	225	14.517	14.517	0.000	96	20349	0.5000	0.5022	
126 Naphthalene	128	14.615	14.615	0.000	97	82677	0.5000	0.4748	
127 1,2,3-Trichlorobenzene	180	14.755	14.761	-0.006	95	38602	0.5000	0.4801	
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	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_RV1_826_00030	Amount Added:	2.00	Units: uL	
MSV_RV4GAS826_00096	Amount Added:	2.00	Units: uL	
MSV_RV4_826_00034	Amount Added:	2.00	Units: uL	
MSV_31_826ISS_00003	Amount Added:	5.00	Units: uL	Run Reagent

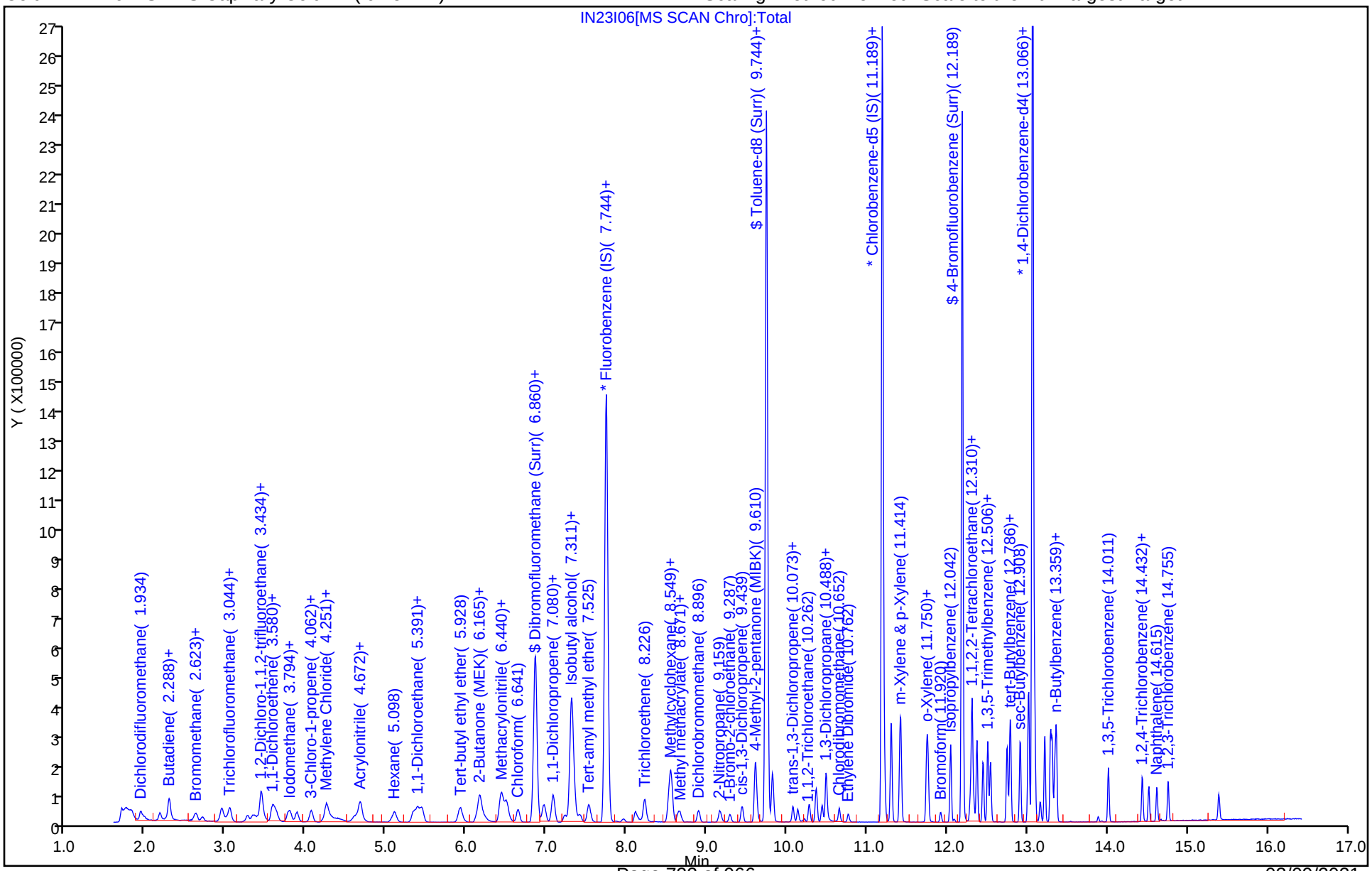
Report Date: 23-Nov-2020 19:11:32 Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I06.D

Injection Date:	23-Nov-2020 14:31:30	Instrument ID:	19930	Operator ID:	dvv10203
Lims ID:	IC std2			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: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

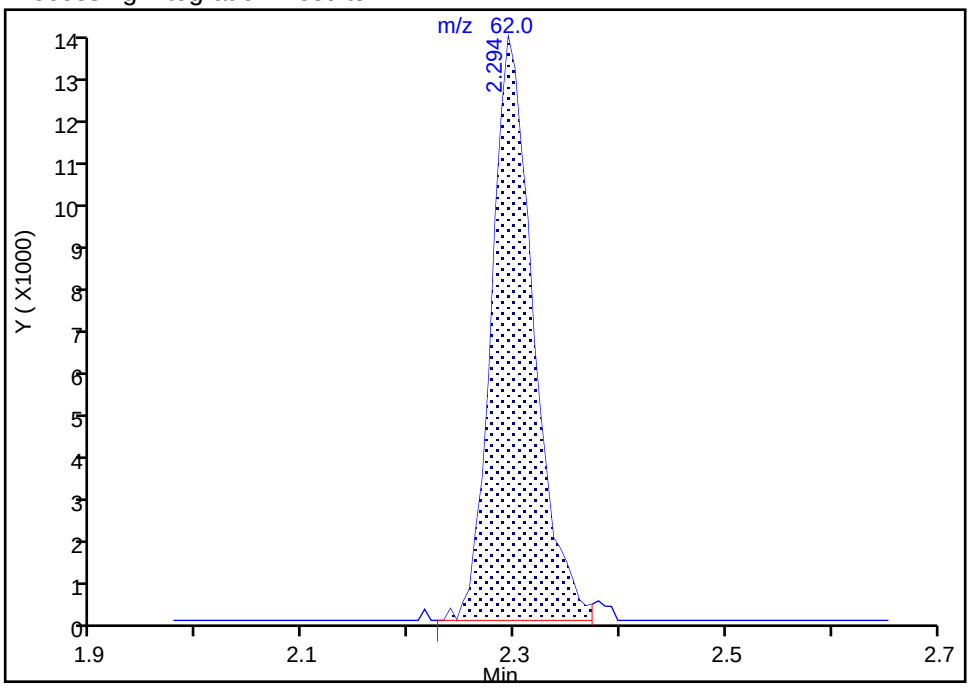
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I06.D				
Injection Date:	23-Nov-2020 14:31:30	Instrument ID:	19930		
Lims ID:	IC std2				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

5 Vinyl chloride, CAS: 75-01-4

Signal: 1

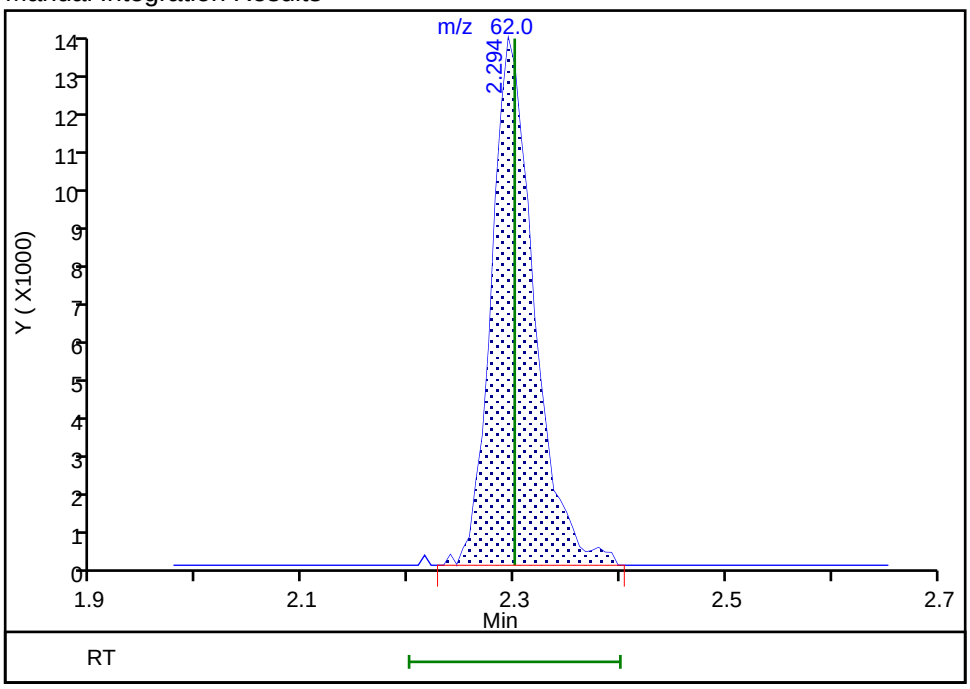
Processing Integration Results

RT: 2.29
Area: 36162
Amount: 0.476139
Amount Units: ug/l



Manual Integration Results

RT: 2.29
Area: 36555
Amount: 0.480603
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:38:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

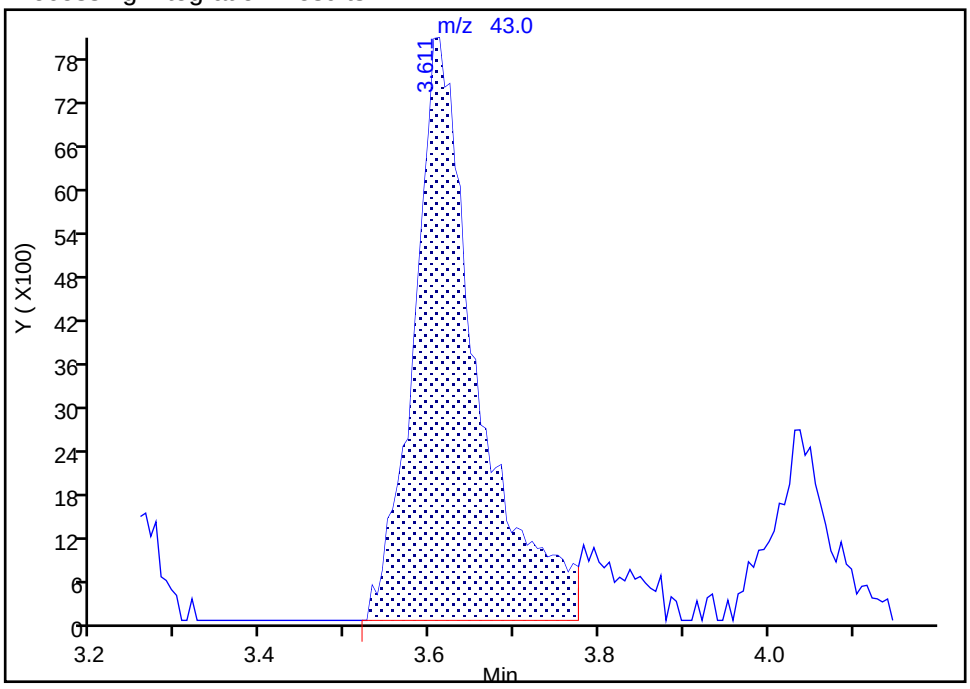
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I06.D				
Injection Date:	23-Nov-2020 14:31:30	Instrument ID:	19930		
Lims ID:	IC std2				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

15 Acetone, CAS: 67-64-1

Signal: 1

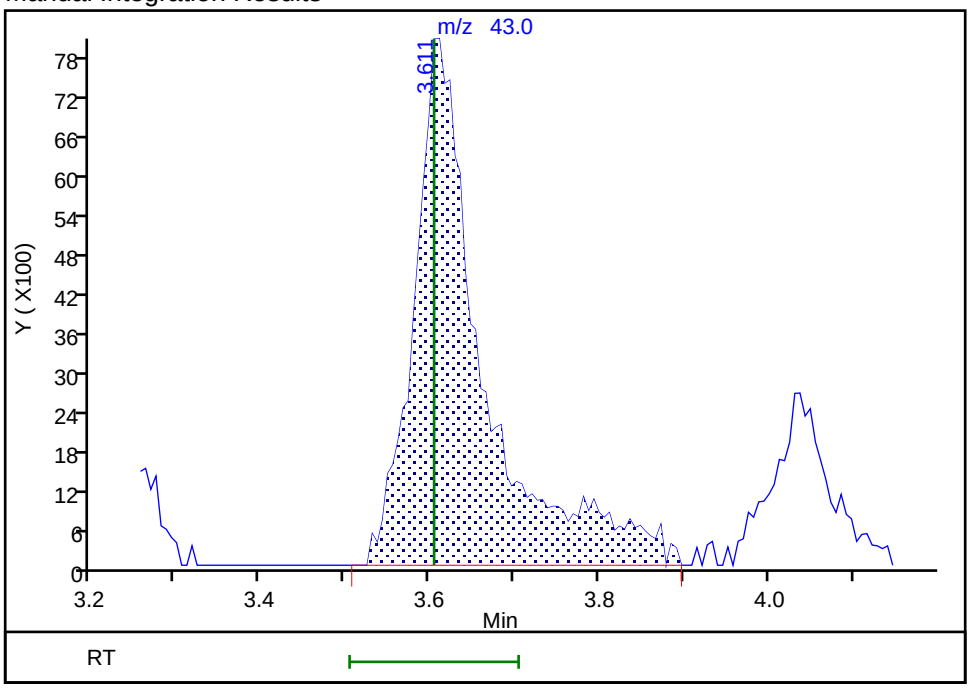
Processing Integration Results

RT: 3.61
Area: 41942
Amount: 4.939769
Amount Units: ug/l



Manual Integration Results

RT: 3.61
Area: 46105
Amount: 5.396301
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:38:11

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

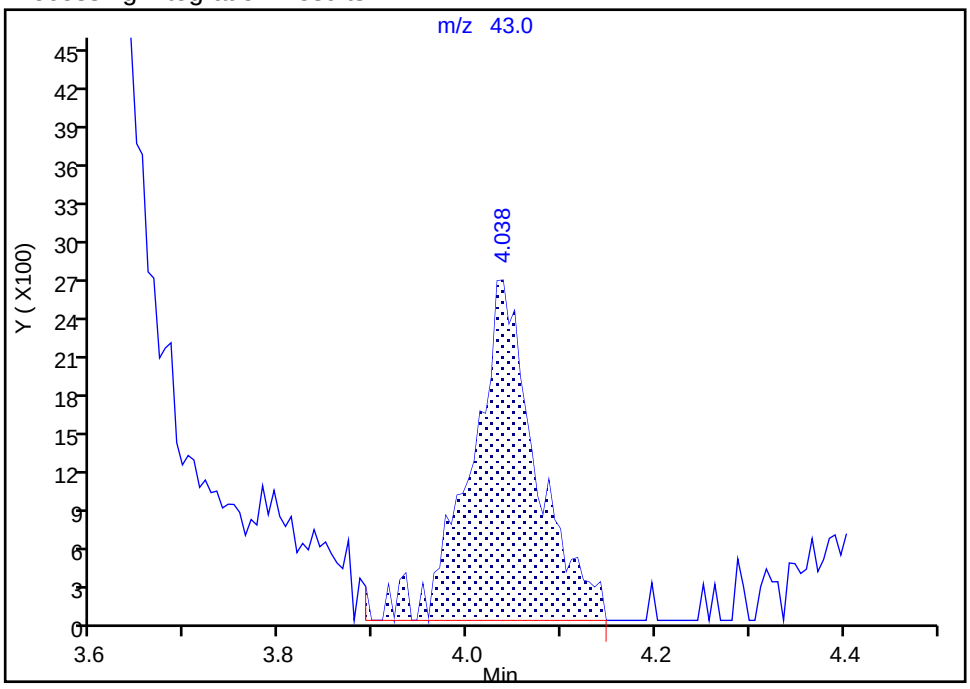
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I06.D				
Injection Date:	23-Nov-2020 14:31:30	Instrument ID:	19930		
Lims ID:	IC std2				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Methyl acetate, CAS: 79-20-9

Signal: 1

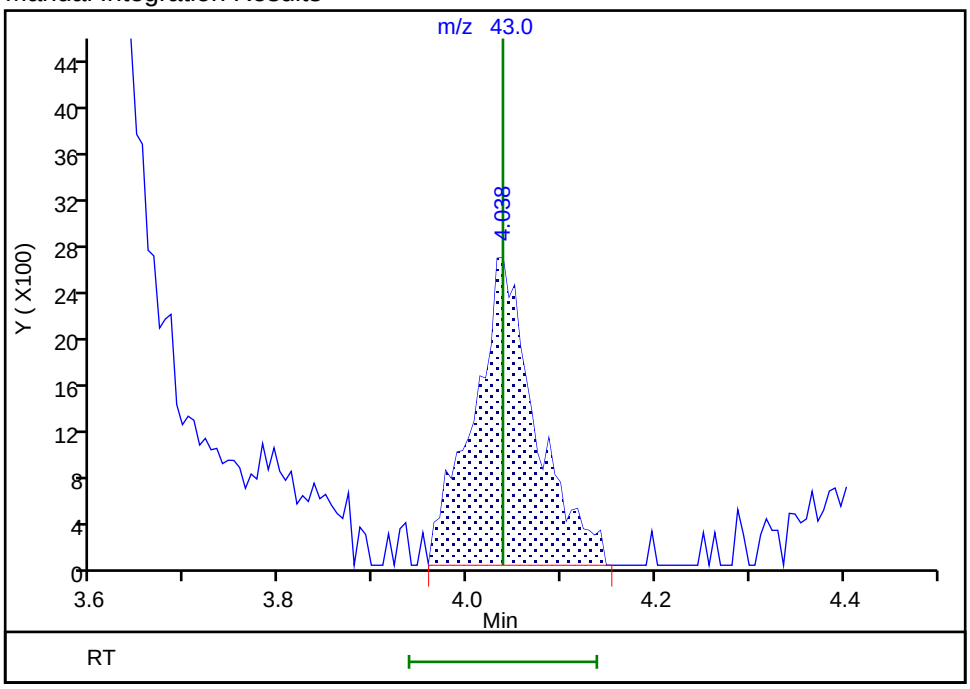
Processing Integration Results

RT: 4.04
Area: 12774
Amount: 0.539671
Amount Units: ug/l



Manual Integration Results

RT: 4.04
Area: 12227
Amount: 0.524588
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:38:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

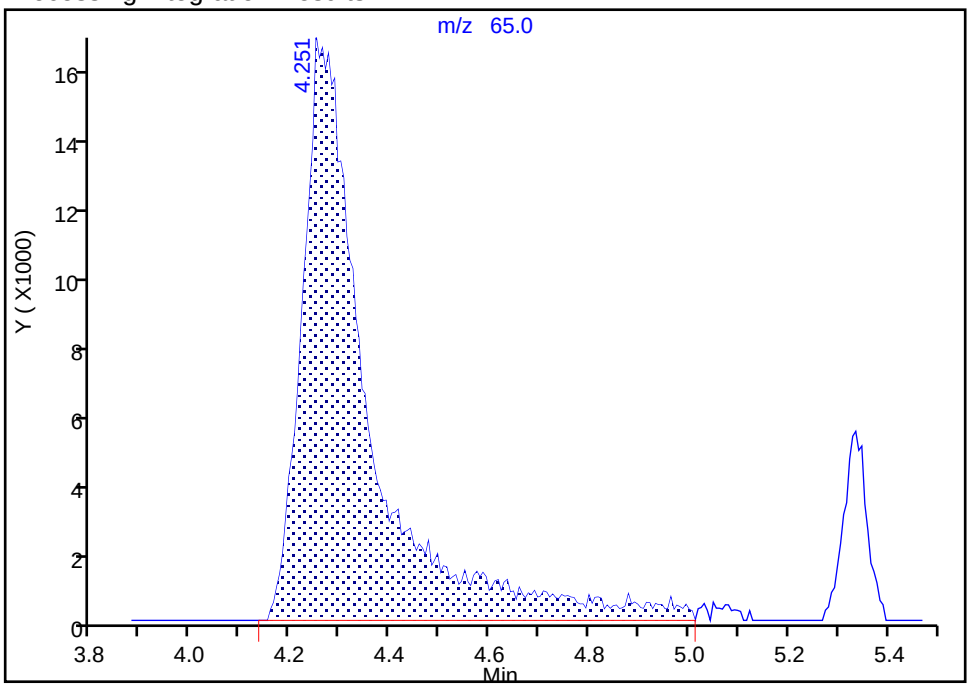
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I06.D				
Injection Date:	23-Nov-2020 14:31:30	Instrument ID:	19930		
Lims ID:	IC std2				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 24 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

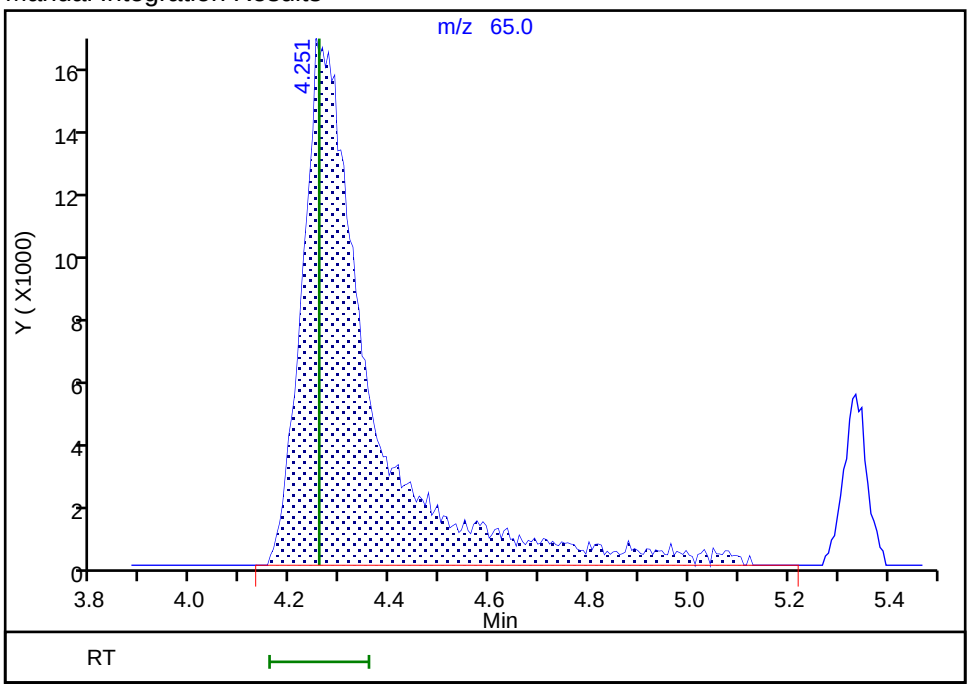
Processing Integration Results

RT: 4.25
Area: 154788
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.25
Area: 156713
Amount: 50.000000
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:43:04

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

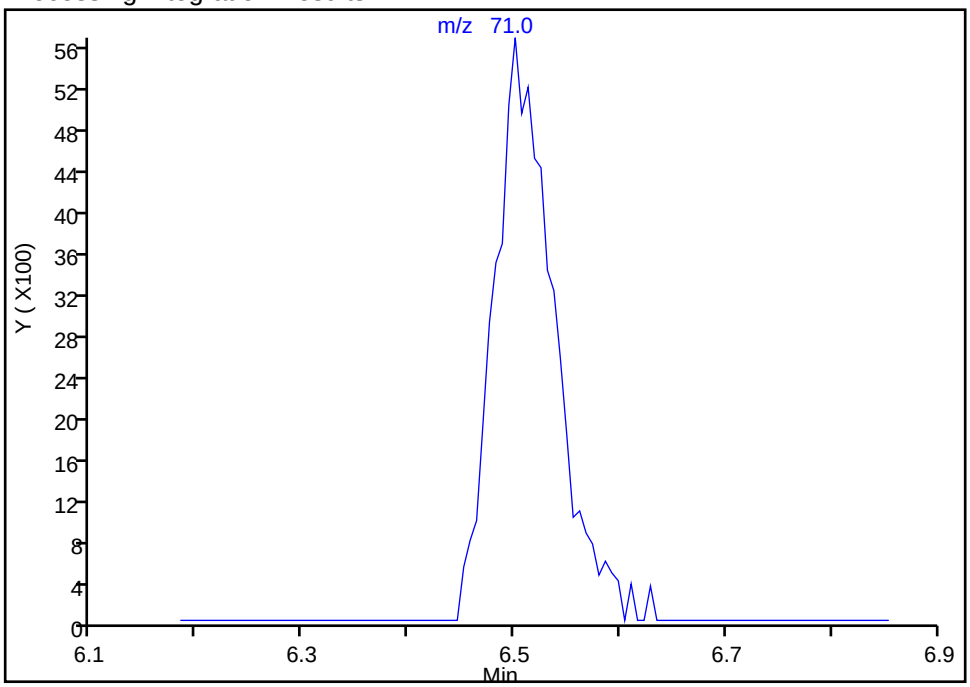
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I06.D				
Injection Date:	23-Nov-2020 14:31:30	Instrument ID:	19930		
Lims ID:	IC std2				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

44 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

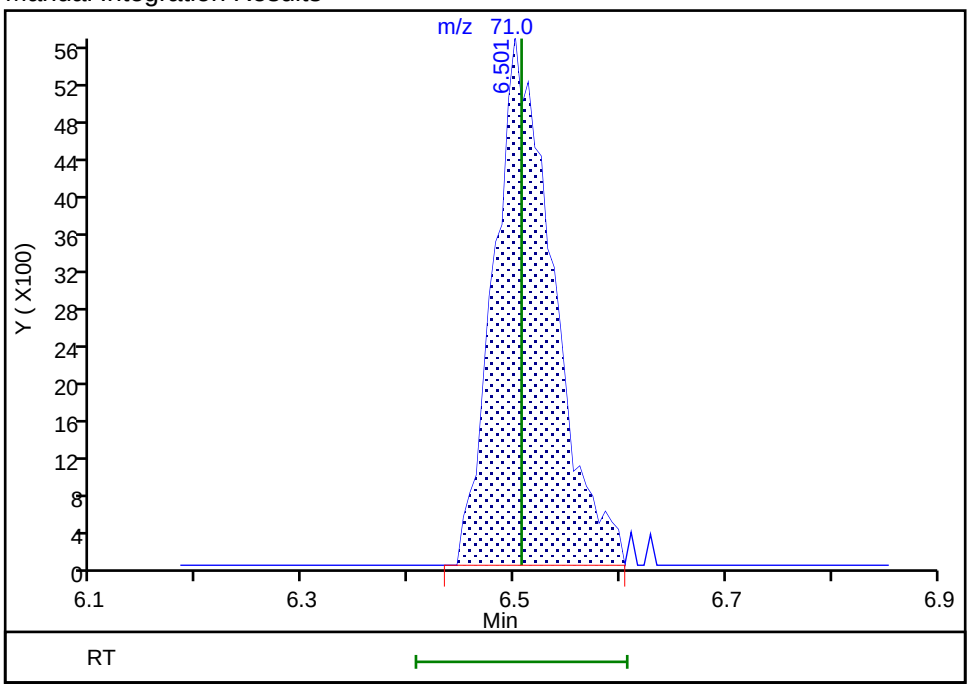
Not Detected
Expected RT: 6.51

Processing Integration Results



Manual Integration Results

RT: 6.50
Area: 22107
Amount: 5.100159
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:38:29
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

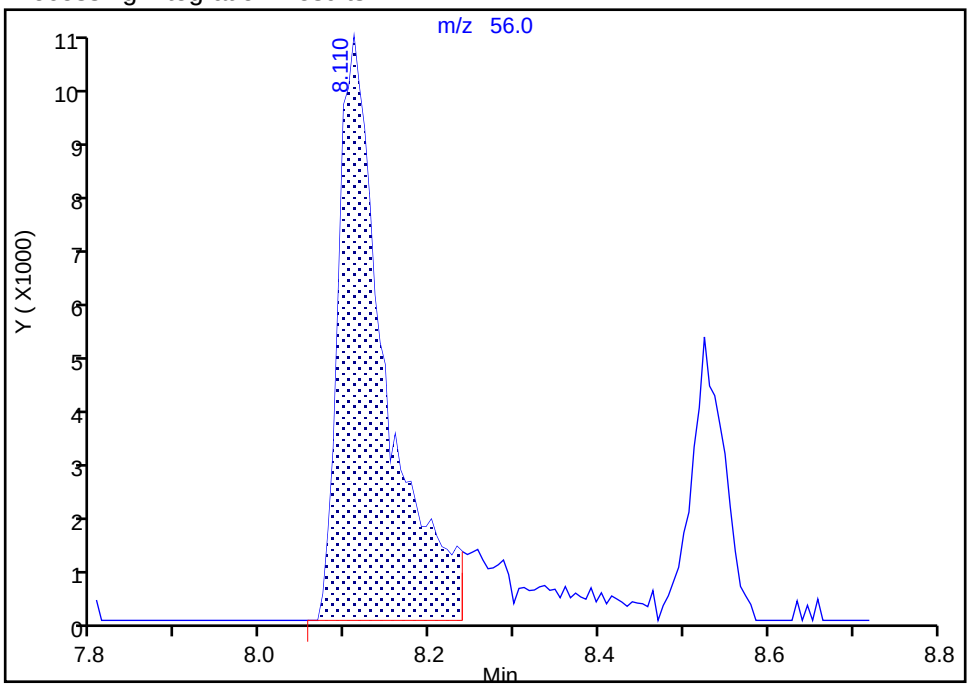
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I06.D				
Injection Date:	23-Nov-2020 14:31:30	Instrument ID:	19930		
Lims ID:	IC std2				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

60 n-Butanol, CAS: 71-36-3

Signal: 1

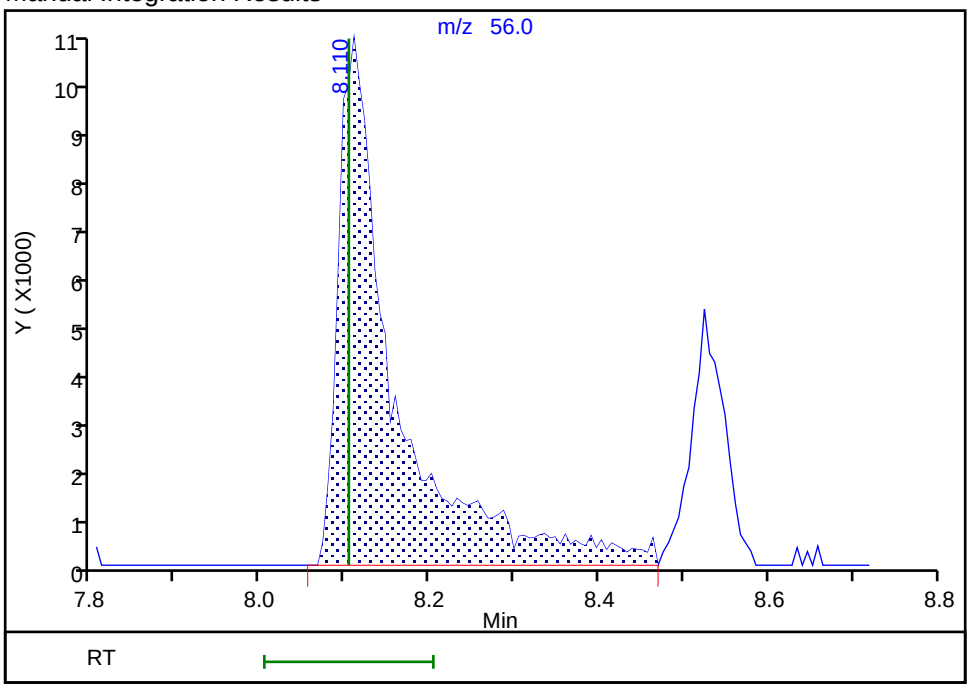
Processing Integration Results

RT: 8.11
Area: 41235
Amount: 41.947047
Amount Units: ug/l



Manual Integration Results

RT: 8.11
Area: 49414
Amount: 48.647785
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:38:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

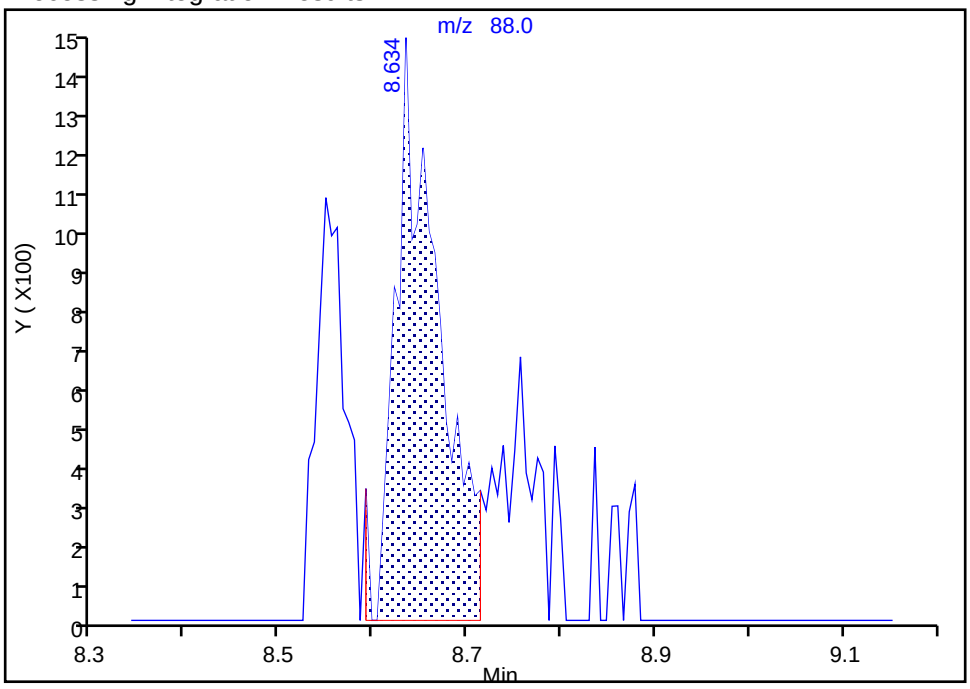
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I06.D				
Injection Date:	23-Nov-2020 14:31:30	Instrument ID:	19930		
Lims ID:	IC std2				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

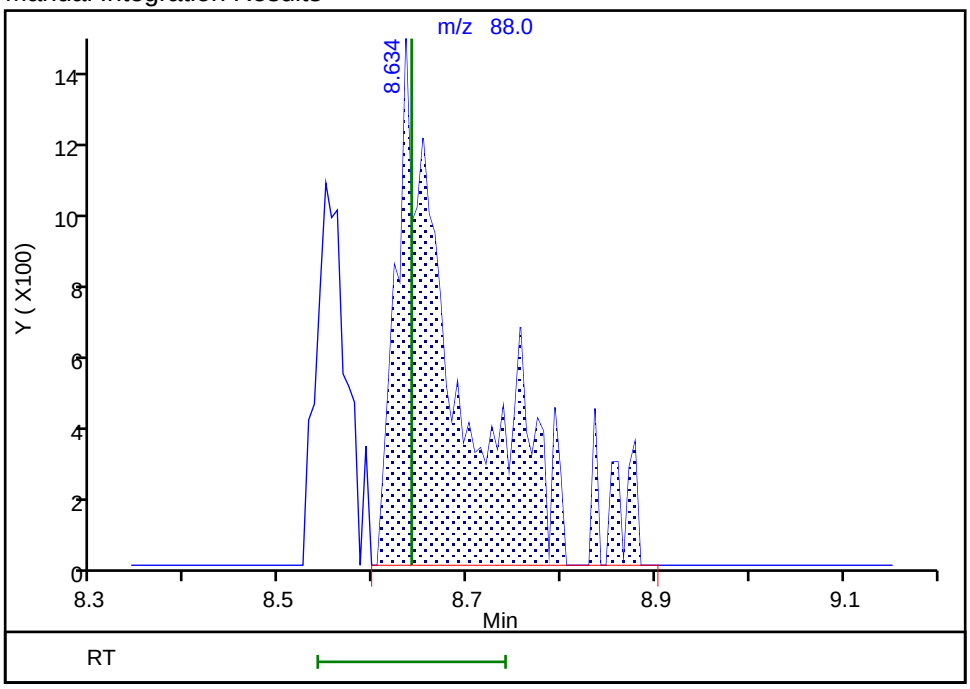
Processing Integration Results

RT: 8.63
Area: 4724
Amount: 20.738620
Amount Units: ug/l



Manual Integration Results

RT: 8.63
Area: 7023
Amount: 26.485431
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:38:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I07.D
Lims ID: IC std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Nov-2020 14:53:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0016280-009
Misc. Info.: IC STD1
Operator ID: dvv10203 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 23-Nov-2020 19:11:42 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: campbellme Date: 23-Nov-2020 18:42:29

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	97	14289	0.2000	0.2021	
4 Chloromethane	50	2.172	2.172	0.000	97	17096	0.2000	0.2084	
6 Butadiene	39	2.282	2.288	-0.006	91	17464	0.2000	0.2493	M
5 Vinyl chloride	62	2.294	2.300	-0.006	94	15824	0.2000	0.2095	
7 Bromomethane	94	2.629	2.623	0.006	90	11310	0.2000	0.2065	
8 Chloroethane	64	2.702	2.709	-0.007	98	9848	0.2000	0.2122	
9 Dichlorofluoromethane	67	2.952	2.940	0.012	96	21416	0.2000	0.2059	
10 Trichlorofluoromethane	101	3.019	3.019	0.000	94	21060	0.2000	0.2154	
11 Ethyl ether	59	3.263	3.269	-0.006	91	8629	0.2000	0.1971	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.349	3.336	0.013	90	14313	0.2000	0.2087	
13 Acrolein	56	3.440	3.440	0.000	98	69971	10.0	10.1	
14 1,1-Dichloroethene	96	3.574	3.580	-0.006	97	10648	0.2000	0.2016	
15 Acetone	43	3.611	3.605	0.006	99	20352	2.00	2.37	
16 112TCTFE	101	3.611	3.617	-0.006	85	11156	0.2000	0.1998	
17 Iodomethane	142	3.775	3.775	0.000	97	20453	0.2000	0.1982	
18 Ethyl bromide	108	3.806	3.806	0.000	90	9416	0.2000	0.1961	
19 Carbon disulfide	76	3.879	3.885	-0.006	98	33150	0.2000	0.2165	
21 Methyl acetate	43	4.044	4.038	0.006	24	4217	0.2000	0.1800	
22 3-Chloro-1-propene	41	4.062	4.062	0.000	94	16032	0.2000	0.1997	
23 Methylene Chloride	84	4.239	4.251	-0.012	58	12391	0.2000	0.2117	
* 24 t-Butyl alcohol-d10 (IS)	65	4.269	4.257	0.012	0	157506	50.0	50.0	M
25 2-Methyl-2-propanol	59	4.397	4.385	0.012	94	14466	4.00	4.31	
26 Acrylonitrile	53	4.611	4.592	0.019	72	11416	1.00	1.02	a
27 Methyl tert-butyl ether	73	4.659	4.659	0.000	95	28583	0.2000	0.2022	
28 trans-1,2-Dichloroethene	96	4.665	4.678	-0.013	98	11853	0.2000	0.2032	M
29 Hexane	57	5.092	5.104	-0.012	87	15492	0.2000	0.1941	
31 1,1-Dichloroethane	63	5.330	5.336	-0.006	93	20953	0.2000	0.1987	
32 Isopropyl ether	45	5.391	5.391	0.000	95	34785	0.2000	0.1996	
33 2-Chloro-1,3-butadiene	53	5.452	5.446	0.006	88	16705	0.2000	0.1974	
34 Tert-butyl ethyl ether	59	5.934	5.921	0.013	98	32027	0.2000	0.1946	

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	6.147	6.135	0.012	97	28681	2.00	2.00	
S 35 1,2-Dichloroethene, Total	100				0			0.4110	
37 cis-1,2-Dichloroethene	96	6.165	6.165	0.000	79	14079	0.2000	0.2078	
38 2,2-Dichloropropane	77	6.171	6.177	-0.006	63	16623	0.2000	0.1961	
40 Propionitrile	54	6.232	6.220	0.012	97	17434	4.00	4.15	M
42 Methacrylonitrile	67	6.440	6.433	0.007	89	28963	2.00	1.96	
43 Chlorobromomethane	128	6.494	6.494	0.000	79	5808	0.2000	0.1946	
44 Tetrahydrofuran	71	6.500	6.507	-0.007	83	8531	2.00	1.96	
45 Chloroform	83	6.647	6.647	0.000	93	21135	0.2000	0.2034	
$ 46 Dibromofluoromethane (Surr)	113	6.860	6.860	0.000	94	488089	10.0	9.98	
47 1,1,1-Trichloroethane	97	6.878	6.866	0.012	97	18731	0.2000	0.2007	
48 Cyclohexane	56	6.958	6.964	-0.006	86	18461	0.2000	0.1908	
50 Carbon tetrachloride	117	7.080	7.080	0.000	93	16767	0.2000	0.2007	
51 1,1-Dichloropropene	75	7.092	7.080	0.012	94	16151	0.2000	0.1949	
52 Isobutyl alcohol	41	7.232	7.232	0.000	92	11668	10.0	10.8	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.311	7.311	0.000	0	98119	10.0	9.95	
54 Benzene	78	7.348	7.342	0.006	92	50855	0.2000	0.2026	
56 1,2-Dichloroethane	62	7.409	7.415	-0.006	97	13237	0.2000	0.2160	
57 Tert-amyl methyl ether	73	7.525	7.531	-0.006	98	28945	0.2000	0.1920	
* 58 Fluorobenzene (IS)	96	7.744	7.744	0.000	99	1980944	10.0	10.0	
59 n-Heptane	43	7.756	7.756	0.000	36	16047	0.2000	0.2002	
60 n-Butanol	56	8.116	8.104	0.012	87	17858	20.0	17.5	M
61 Trichloroethene	95	8.226	8.220	0.006	95	13273	0.2000	0.2020	
62 Methylcyclohexane	83	8.531	8.531	0.000	93	20100	0.2000	0.1884	
63 1,2-Dichloropropane	63	8.561	8.555	0.006	73	12009	0.2000	0.1947	
64 Methyl methacrylate	69	8.634	8.634	0.000	78	4987	0.2000	0.1811	
65 1,4-Dioxane	88	8.646	8.640	0.006	0	1170	10.0	4.39	M
66 Dibromomethane	93	8.659	8.665	-0.006	93	5679	0.2000	0.1948	M
68 Dichlorobromomethane	83	8.896	8.896	0.000	98	14820	0.2000	0.2005	
69 2-Nitropropane	41	9.165	9.165	0.000	97	12963	2.00	1.87	
72 1-Bromo-2-chloroethane	63	9.287	9.287	0.000	95	12498	0.2000	0.1969	
73 cis-1,3-Dichloropropene	75	9.445	9.439	0.006	96	16306	0.2000	0.1839	
74 4-Methyl-2-pentanone (MIBK)	43	9.610	9.604	0.006	94	67829	2.00	1.90	
$ 75 Toluene-d8 (Surr)	98	9.744	9.744	0.000	93	1932681	10.0	10.0	
76 Toluene	92	9.823	9.817	0.006	99	33538	0.2000	0.2088	
S 77 1,3-Dichloropropene, Total	100				0			0.3639	
78 trans-1,3-Dichloropropene	75	10.079	10.073	0.006	90	12488	0.2000	0.1800	
79 Ethyl methacrylate	69	10.140	10.134	0.006	85	9995	0.2000	0.1722	
80 1,1,2-Trichloroethane	97	10.280	10.280	0.000	85	8818	0.2000	0.2057	
81 Tetrachloroethene	166	10.366	10.366	0.000	96	15772	0.2000	0.2028	
82 1,3-Dichloropropane	76	10.439	10.439	0.000	87	14656	0.2000	0.2001	
83 2-Hexanone	43	10.494	10.488	0.006	95	42866	2.00	1.75	
85 Chlorodibromomethane	129	10.658	10.652	0.006	87	10400	0.2000	0.1931	
86 Ethylene Dibromide	107	10.768	10.762	0.006	94	8081	0.2000	0.1968	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	0.000	85	1473403	10.0	10.0	
88 1-Chlorohexane	91	11.201	11.195	0.006	62	20461	0.2000	0.2196	
90 Chlorobenzene	112	11.219	11.219	0.000	98	36190	0.2000	0.2038	
S 89 Xylenes, Total	106				0			0.5869	
91 1,1,1,2-Tetrachloroethane	131	11.298	11.298	0.000	92	12023	0.2000	0.1950	
92 Ethylbenzene	91	11.304	11.304	0.000	98	61200	0.2000	0.1972	
93 m-Xylene & p-Xylene	106	11.420	11.414	0.006	100	48448	0.4000	0.3956	
94 o-Xylene	106	11.743	11.743	0.000	96	22768	0.2000	0.1913	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
95 Styrene	104	11.762	11.762	0.000	95	35720	0.2000	0.1875	
96 Bromoform	173	11.920	11.920	0.000	97	5858	0.2000	0.1799	
97 Isopropylbenzene	105	12.042	12.042	0.000	95	60889	0.2000	0.1926	
$ 100 4-Bromofluorobenzene (Surr)	95	12.188	12.188	0.000	94	711806	10.0	9.99	
101 1,1,2,2-Tetrachloroethane	83	12.286	12.286	0.000	93	10791	0.2000	0.1948	
102 Bromobenzene	156	12.304	12.304	0.000	92	15002	0.2000	0.1963	
103 trans-1,4-Dichloro-2-butene	53	12.310	12.310	0.000	95	20615	2.00	1.76	
104 1,2,3-Trichloropropane	110	12.335	12.335	0.000	63	3227	0.2000	0.2123	
105 N-Propylbenzene	91	12.371	12.371	0.000	99	73549	0.2000	0.1964	
106 2-Chlorotoluene	126	12.451	12.451	0.000	97	15105	0.2000	0.1973	
107 1,3,5-Trimethylbenzene	105	12.505	12.505	0.000	94	51085	0.2000	0.1908	
108 4-Chlorotoluene	126	12.542	12.542	0.000	96	15194	0.2000	0.1965	
109 tert-Butylbenzene	134	12.749	12.749	0.000	92	12362	0.2000	0.2044	
110 Pentachloroethane	167	12.780	12.780	0.000	79	8281	0.2000	0.1727	
111 1,2,4-Trimethylbenzene	105	12.792	12.792	0.000	96	50885	0.2000	0.1868	
112 sec-Butylbenzene	105	12.914	12.914	0.000	94	67663	0.2000	0.1926	
113 1,3-Dichlorobenzene	146	13.011	13.011	0.000	97	31322	0.2000	0.2036	
114 4-Isopropyltoluene	119	13.017	13.018	-0.001	97	55545	0.2000	0.1855	
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	94	848529	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.085	13.085	0.000	93	31232	0.2000	0.2031	
117 1,2,3-Trimethylbenzene	120	13.091	13.097	-0.006	96	24151	0.2000	0.1999	
118 Benzyl chloride	126	13.164	13.164	0.000	98	3201	0.2000	0.1528	
119 n-Butylbenzene	92	13.310	13.310	0.000	97	27906	0.2000	0.1908	
120 1,2-Dichlorobenzene	146	13.341	13.347	-0.006	98	28158	0.2000	0.2006	
122 1,2-Dibromo-3-Chloropropane	155	13.889	13.883	0.006	80	1501	0.2000	0.1764	
123 1,3,5-Trichlorobenzene	180	14.011	14.011	0.000	97	21330	0.2000	0.1925	
124 1,2,4-Trichlorobenzene	180	14.438	14.438	0.000	92	17403	0.2000	0.1888	
125 Hexachlorobutadiene	225	14.517	14.517	0.000	96	8383	0.2000	0.2092	
126 Naphthalene	128	14.615	14.615	0.000	97	32359	0.2000	0.1879	
127 1,2,3-Trichlorobenzene	180	14.761	14.761	0.000	96	15307	0.2000	0.1925	
134 Isopropyl alcohol	45		0.000				ND	ND	
135 p-Diethylbenzene	1		0.000				ND	ND	
137 2-Methylnaphthalene	142		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

a - User Assigned ID

Reagents:

MSV_RV1_826_00030	Amount Added:	2.00	Units: uL	
MSV_RV4GAS826_00096	Amount Added:	2.00	Units: uL	
MSV_RV4_826_00034	Amount Added:	2.00	Units: uL	
MSV_31_826ISS_00003	Amount Added:	5.00	Units: uL	Run Reagent

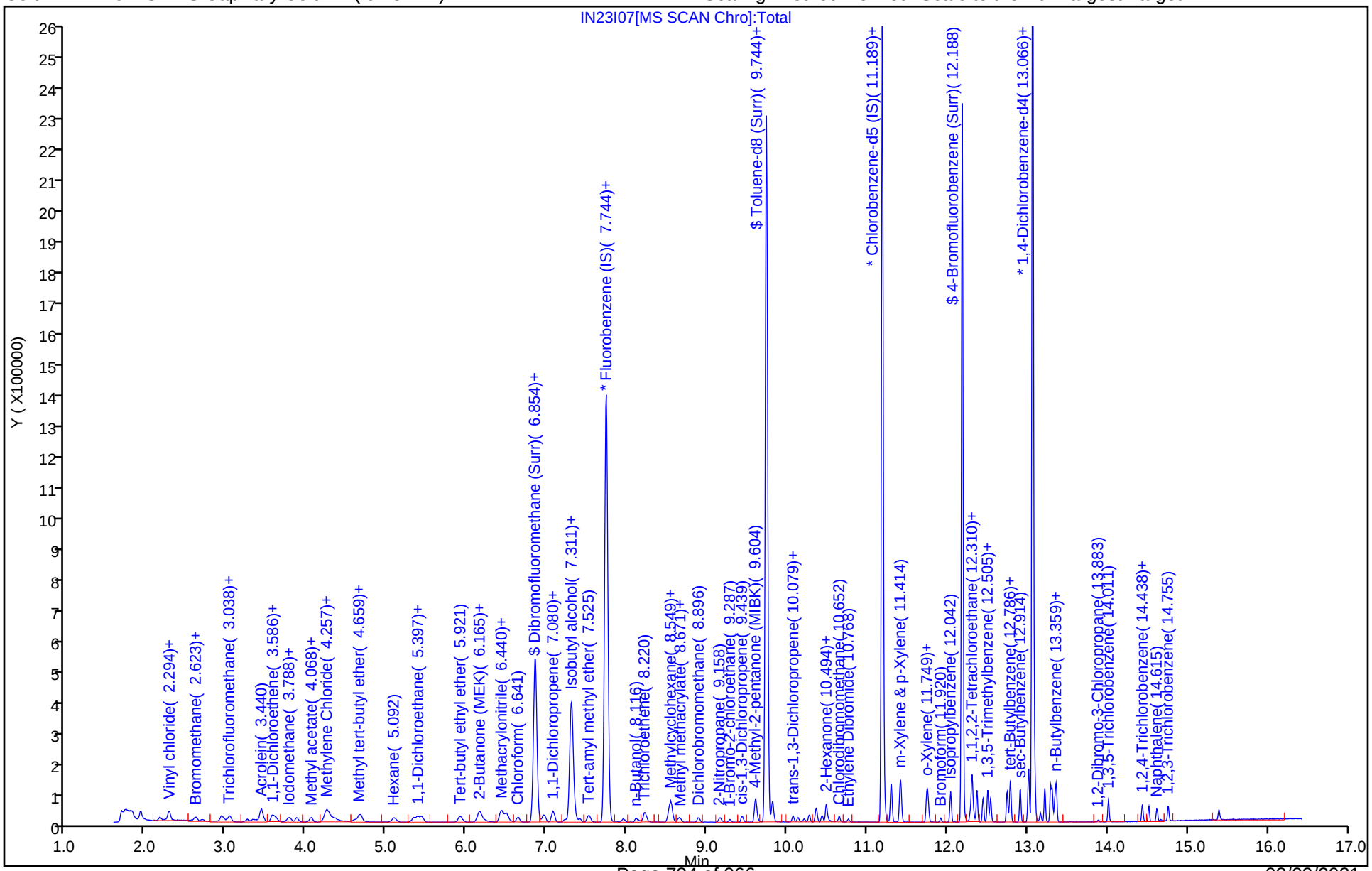
Report Date: 23-Nov-2020 19:11:43 Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I07.D

Injection Date:	23-Nov-2020 14:53:30	Instrument ID:	19930	Operator ID:	dvv10203
Lims ID:	IC std1			Worklist Smp#:	9
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

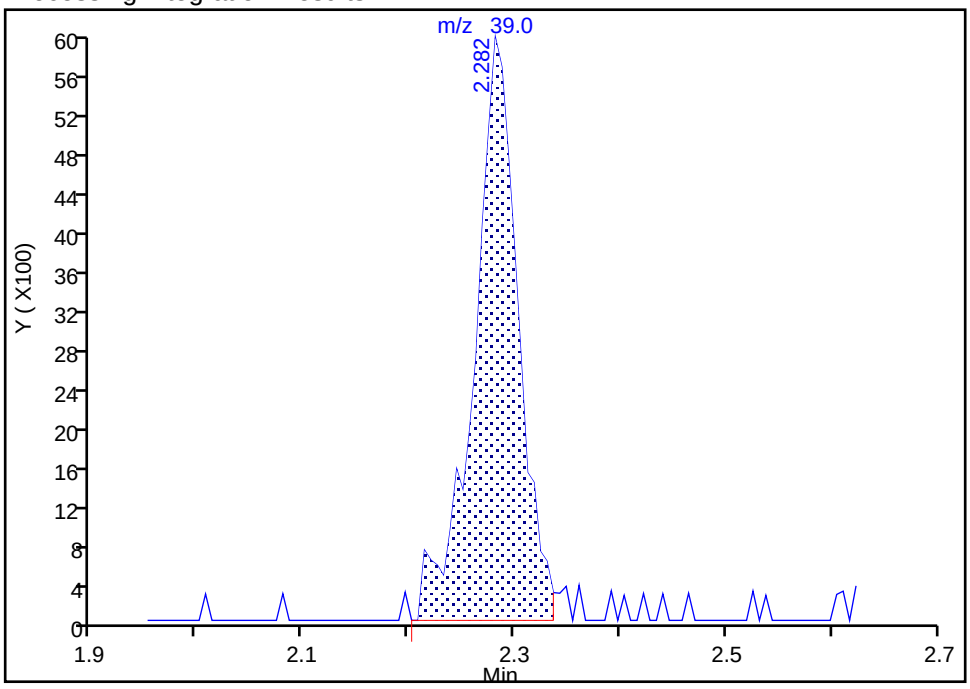
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I07.D				
Injection Date:	23-Nov-2020 14:53:30	Instrument ID:	19930		
Lims ID:	IC std1				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

6 Butadiene, CAS: 106-99-0

Signal: 1

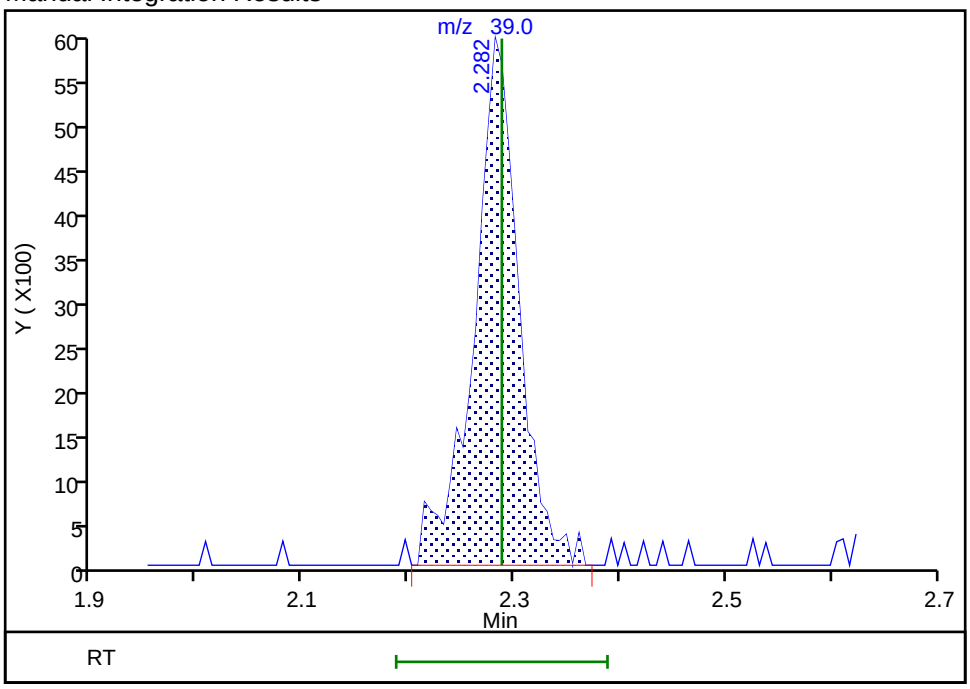
Processing Integration Results

RT: 2.28
Area: 17108
Amount: 0.245098
Amount Units: ug/l



Manual Integration Results

RT: 2.28
Area: 17464
Amount: 0.249290
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:39:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

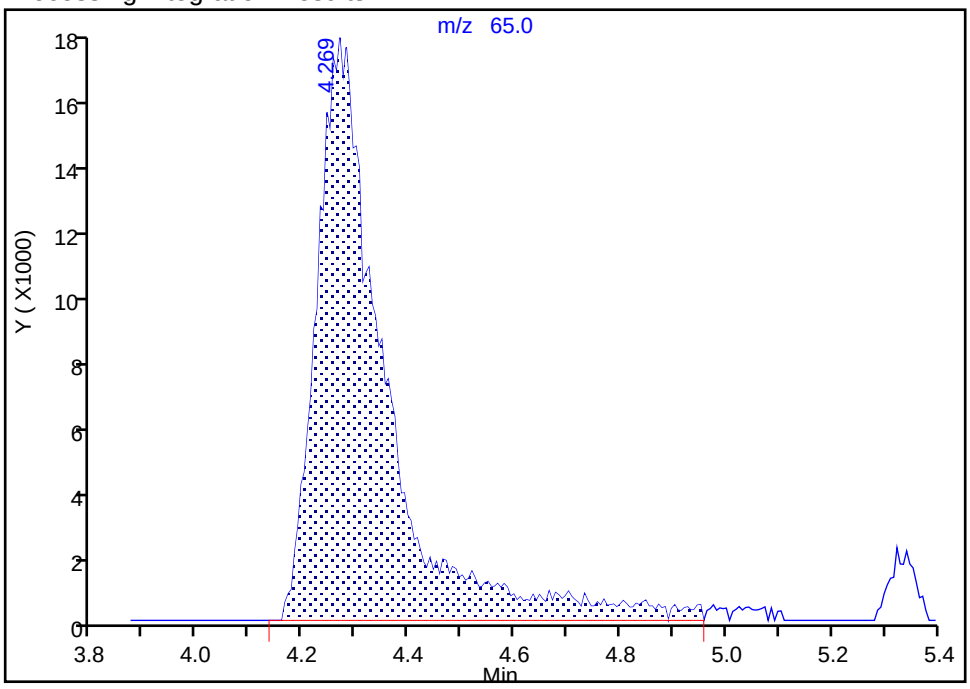
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I07.D				
Injection Date:	23-Nov-2020 14:53:30	Instrument ID:	19930		
Lims ID:	IC std1				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 24 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

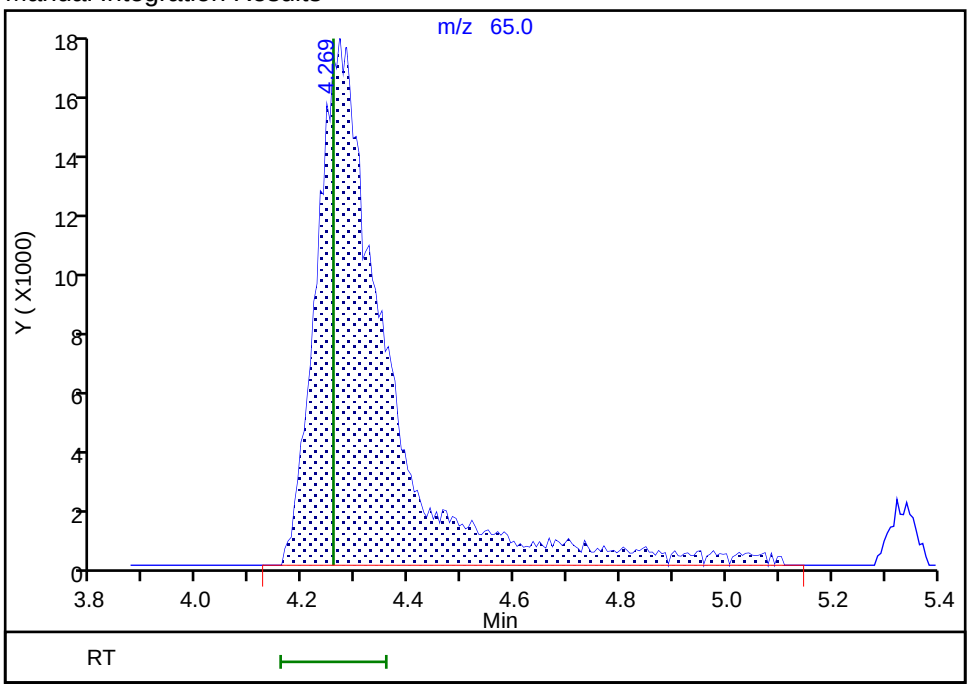
Processing Integration Results

RT: 4.27
Area: 154882
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.27
Area: 157506
Amount: 50.000000
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:42:23

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

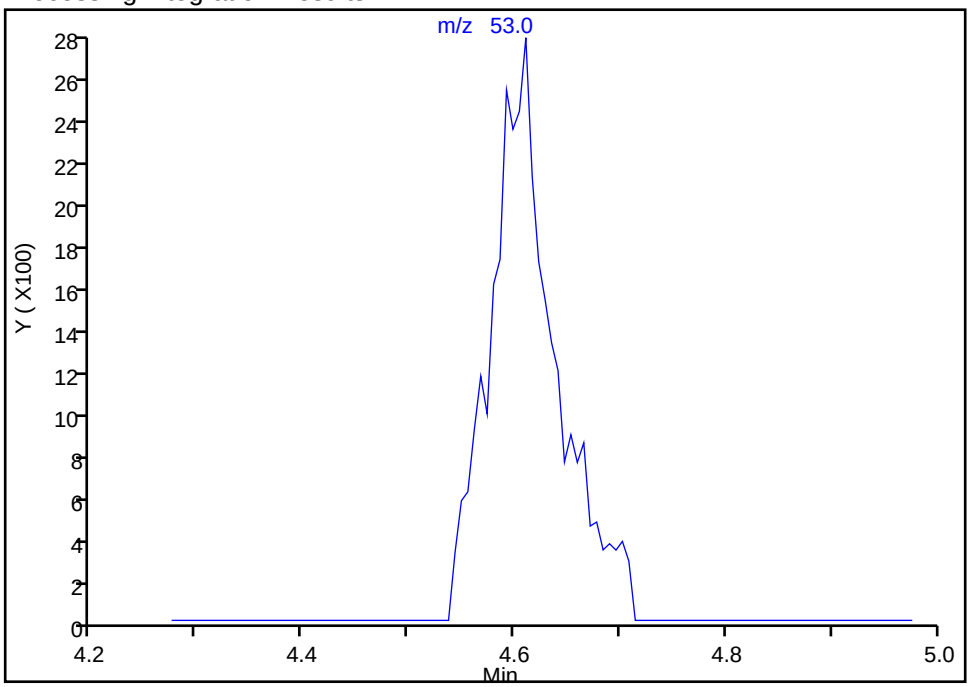
Data File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I07.D
Injection Date: 23-Nov-2020 14:53:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: dvv10203 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

26 Acrylonitrile, CAS: 107-13-1

Signal: 1

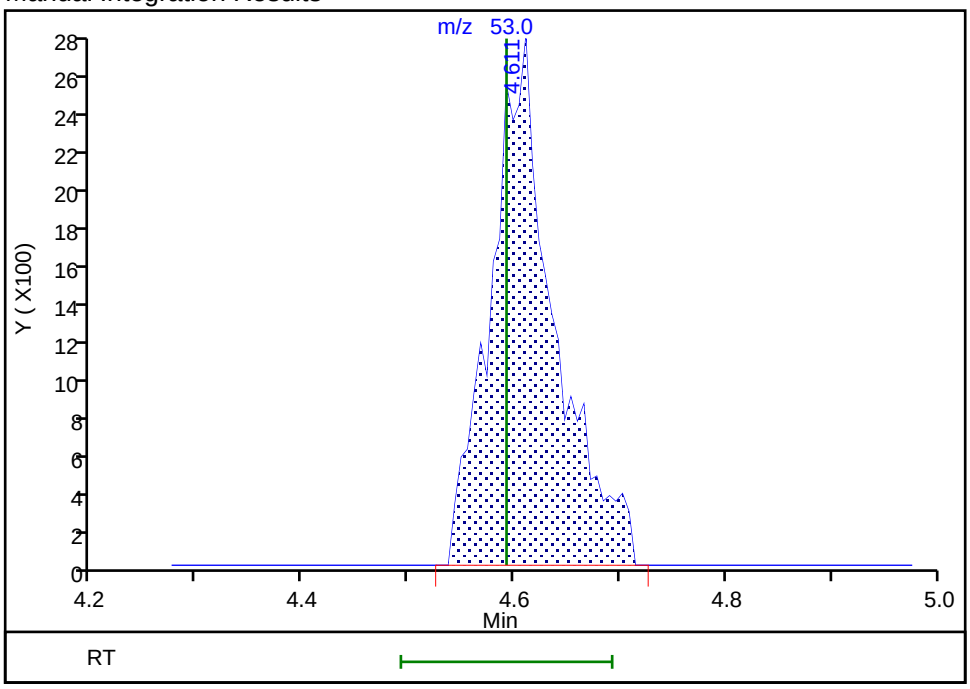
Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results

RT: 4.61
Area: 11416
Amount: 1.018485
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:39:42
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

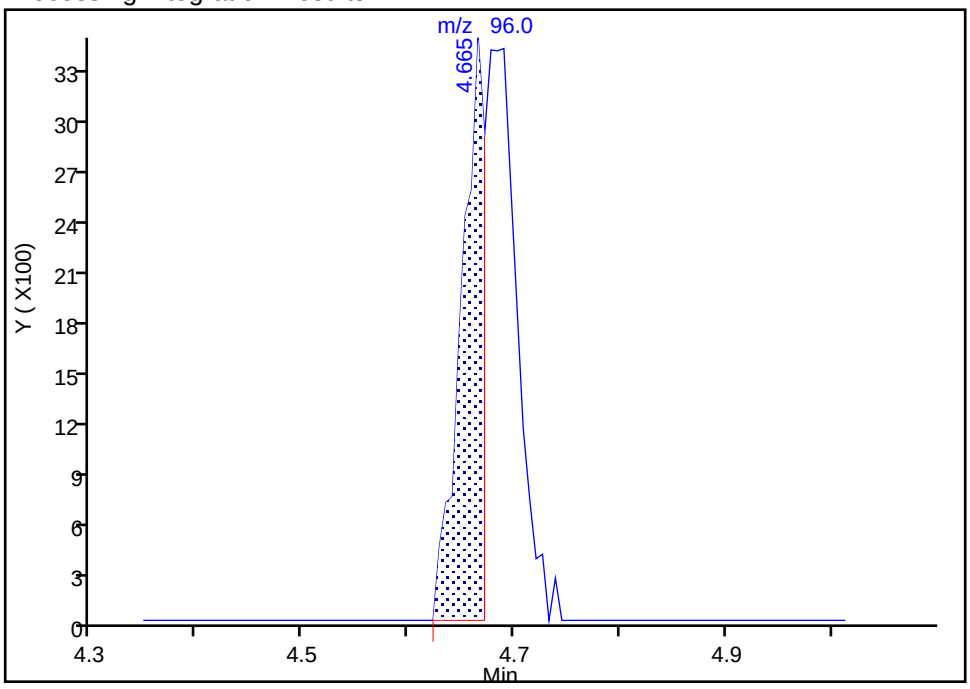
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I07.D				
Injection Date:	23-Nov-2020 14:53:30	Instrument ID:	19930		
Lims ID:	IC std1				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

28 trans-1,2-Dichloroethene, CAS: 156-60-5

Signal: 1

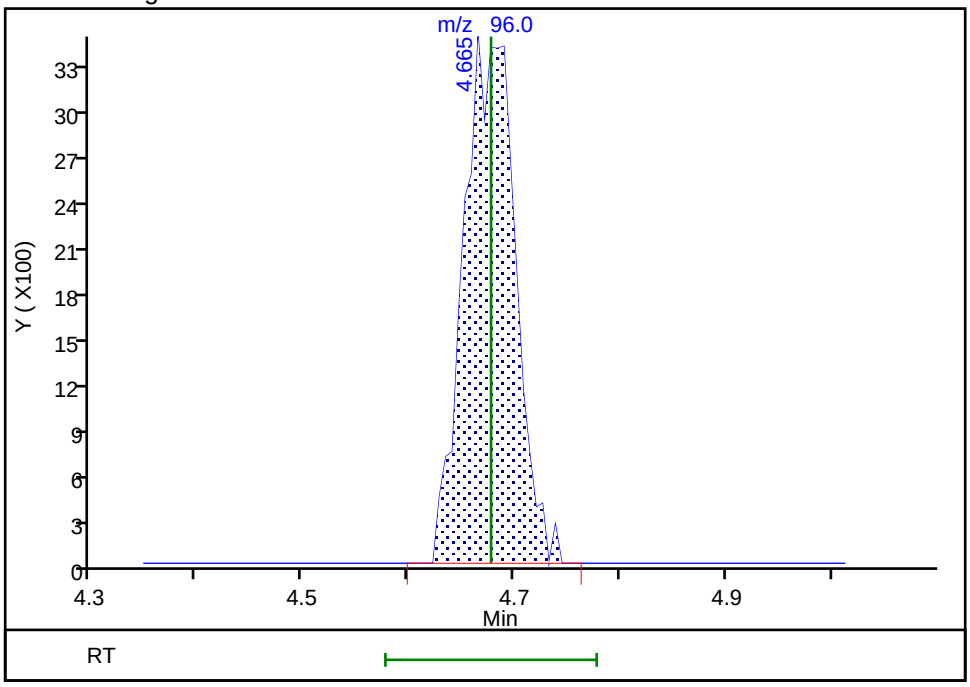
Processing Integration Results

RT: 4.67
Area: 5427
Amount: 0.039292
Amount Units: ug/l



Manual Integration Results

RT: 4.67
Area: 11853
Amount: 0.203228
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:39:47

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

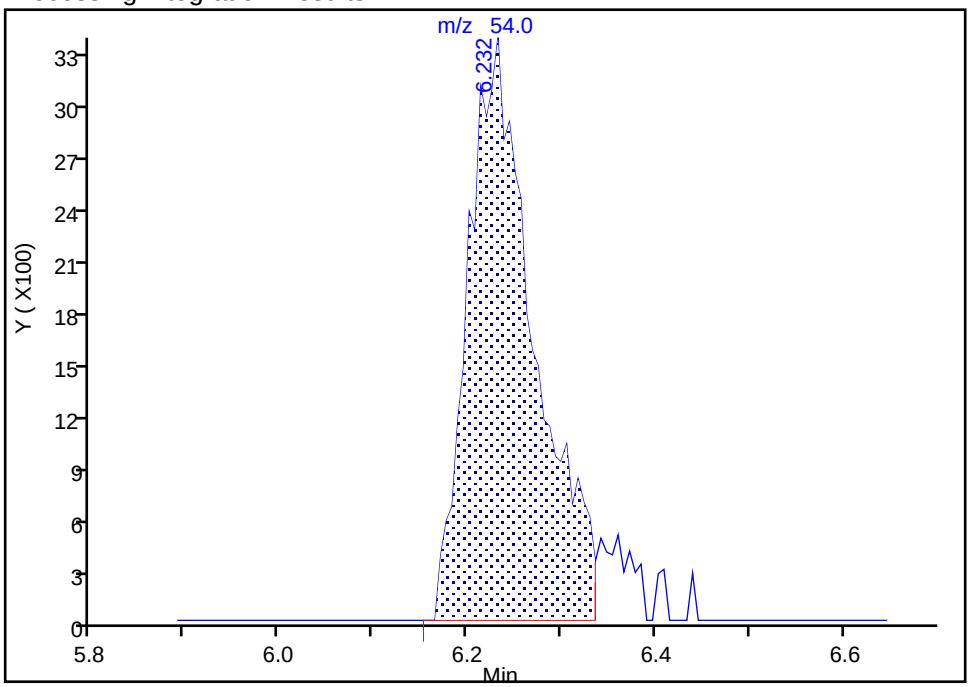
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I07.D				
Injection Date:	23-Nov-2020 14:53:30	Instrument ID:	19930		
Lims ID:	IC std1				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

40 Propionitrile, CAS: 107-12-0

Signal: 1

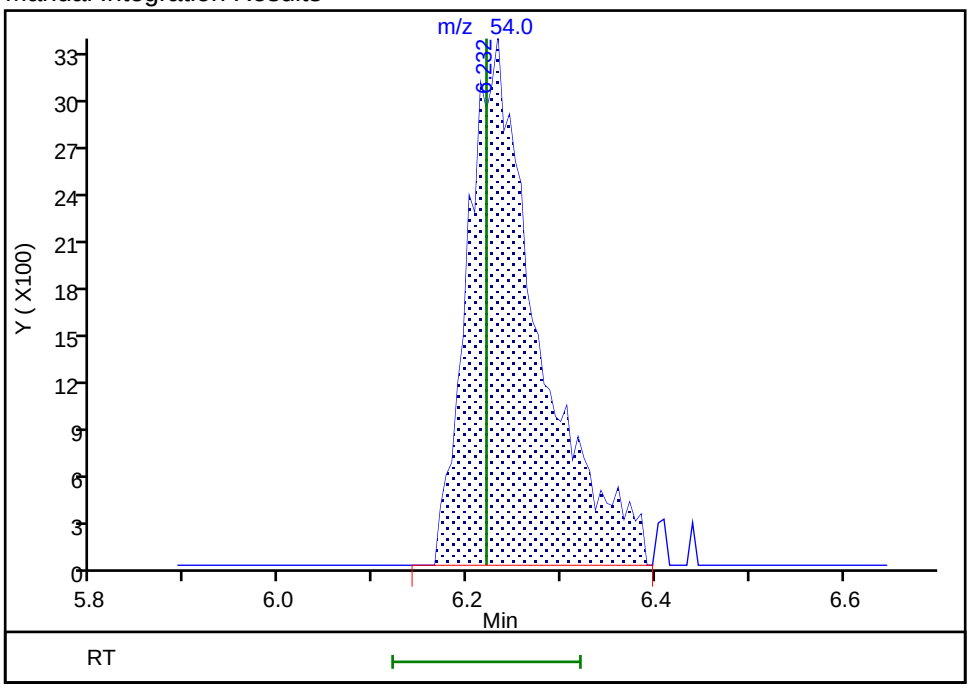
Processing Integration Results

RT: 6.23
Area: 16336
Amount: 3.910148
Amount Units: ug/l



Manual Integration Results

RT: 6.23
Area: 17434
Amount: 4.150122
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:39:55

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

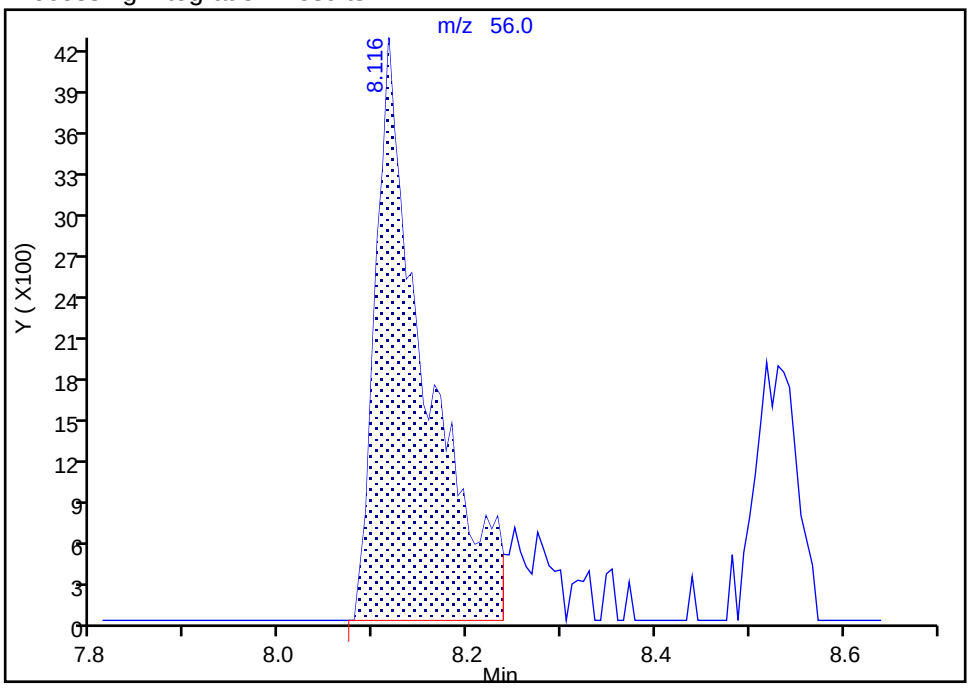
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I07.D				
Injection Date:	23-Nov-2020 14:53:30	Instrument ID:	19930		
Lims ID:	IC std1				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

60 n-Butanol, CAS: 71-36-3

Signal: 1

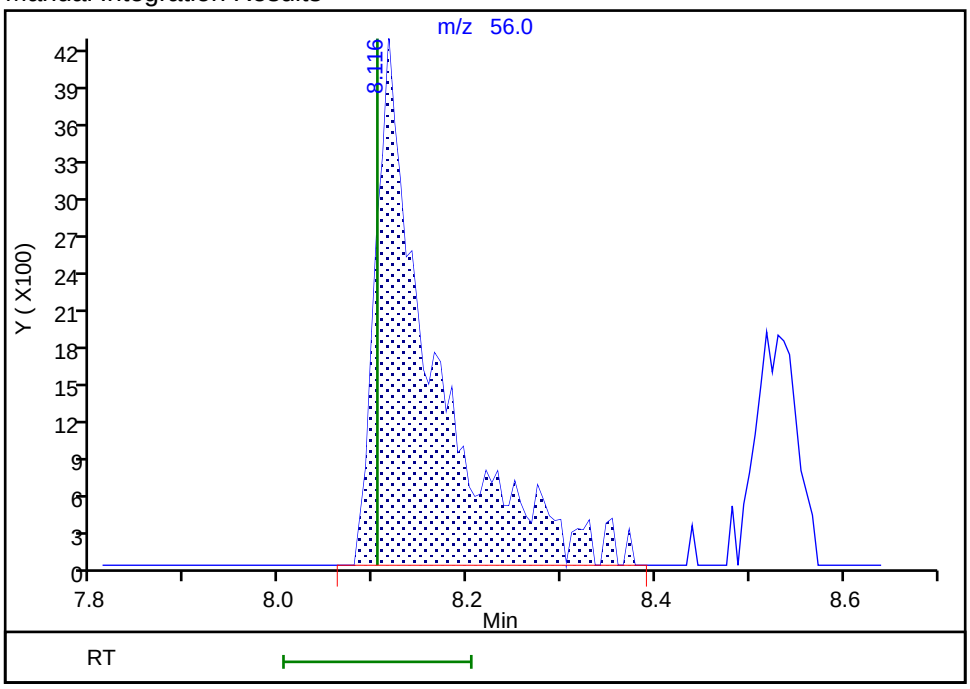
Processing Integration Results

RT: 8.12
Area: 15368
Amount: 15.261099
Amount Units: ug/l



Manual Integration Results

RT: 8.12
Area: 17858
Amount: 17.492577
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:40:07

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

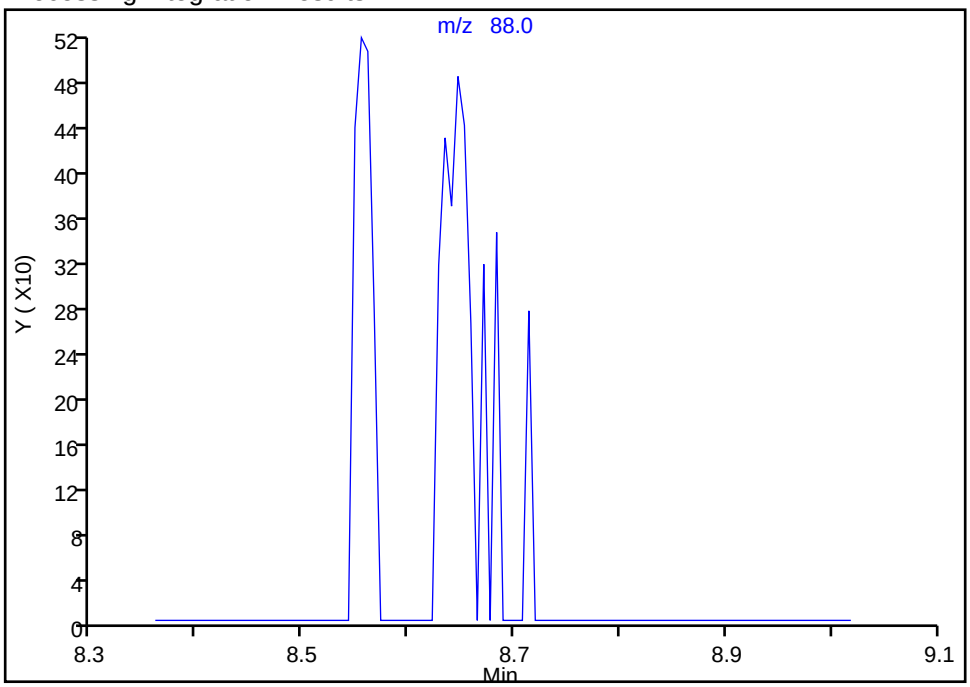
Data File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I07.D
Injection Date: 23-Nov-2020 14:53:30 Instrument ID: 19930
Lims ID: IC std1
Client ID:
Operator ID: dvv10203 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

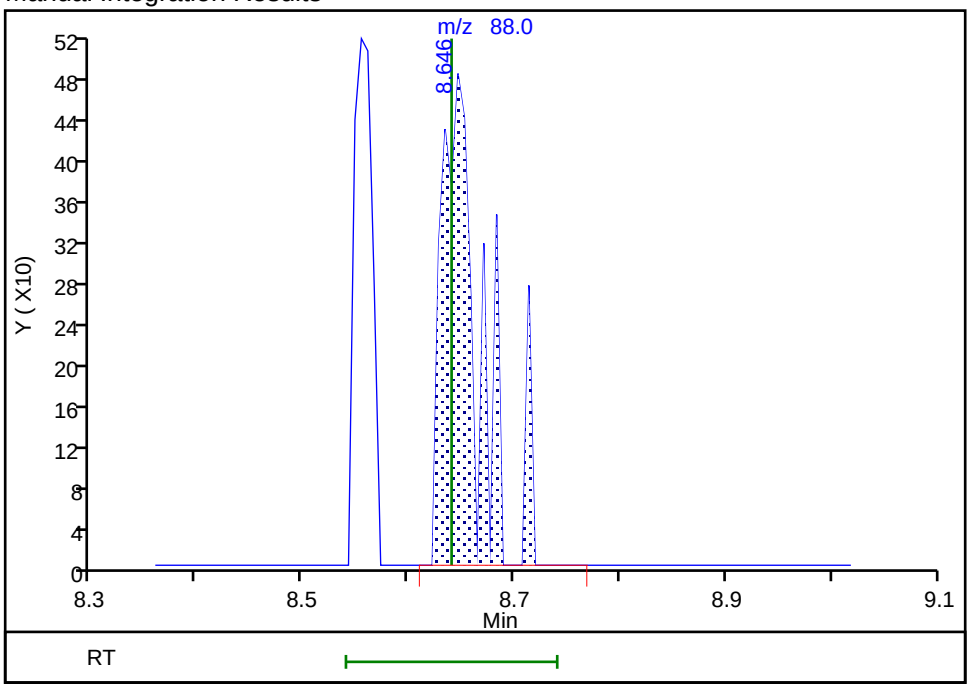
Not Detected
Expected RT: 8.64

Processing Integration Results



Manual Integration Results

RT: 8.65
Area: 1170
Amount: 4.390138
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:40:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

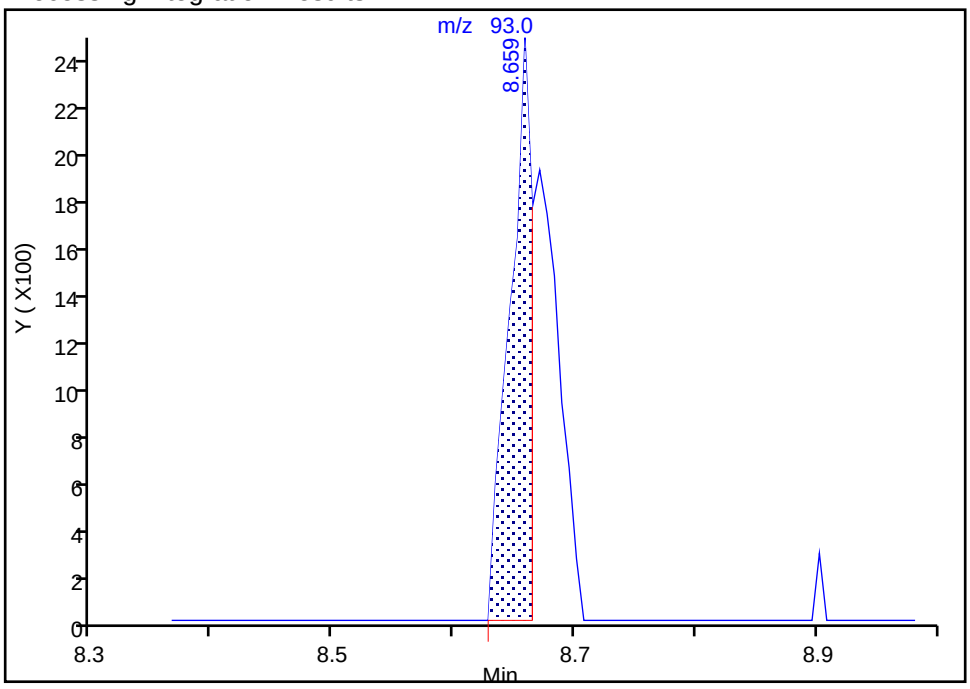
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I07.D				
Injection Date:	23-Nov-2020 14:53:30	Instrument ID:	19930		
Lims ID:	IC std1				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

66 Dibromomethane, CAS: 74-95-3

Signal: 1

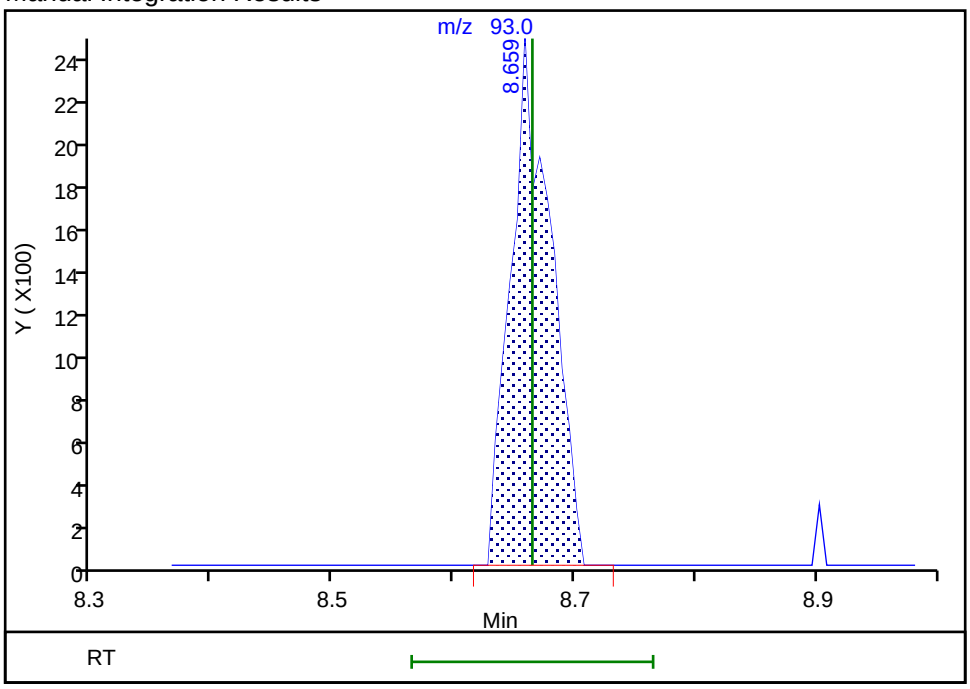
Processing Integration Results

RT: 8.66
Area: 3169
Amount: 0.115796
Amount Units: ug/l



Manual Integration Results

RT: 8.66
Area: 5679
Amount: 0.194753
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:40:17

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

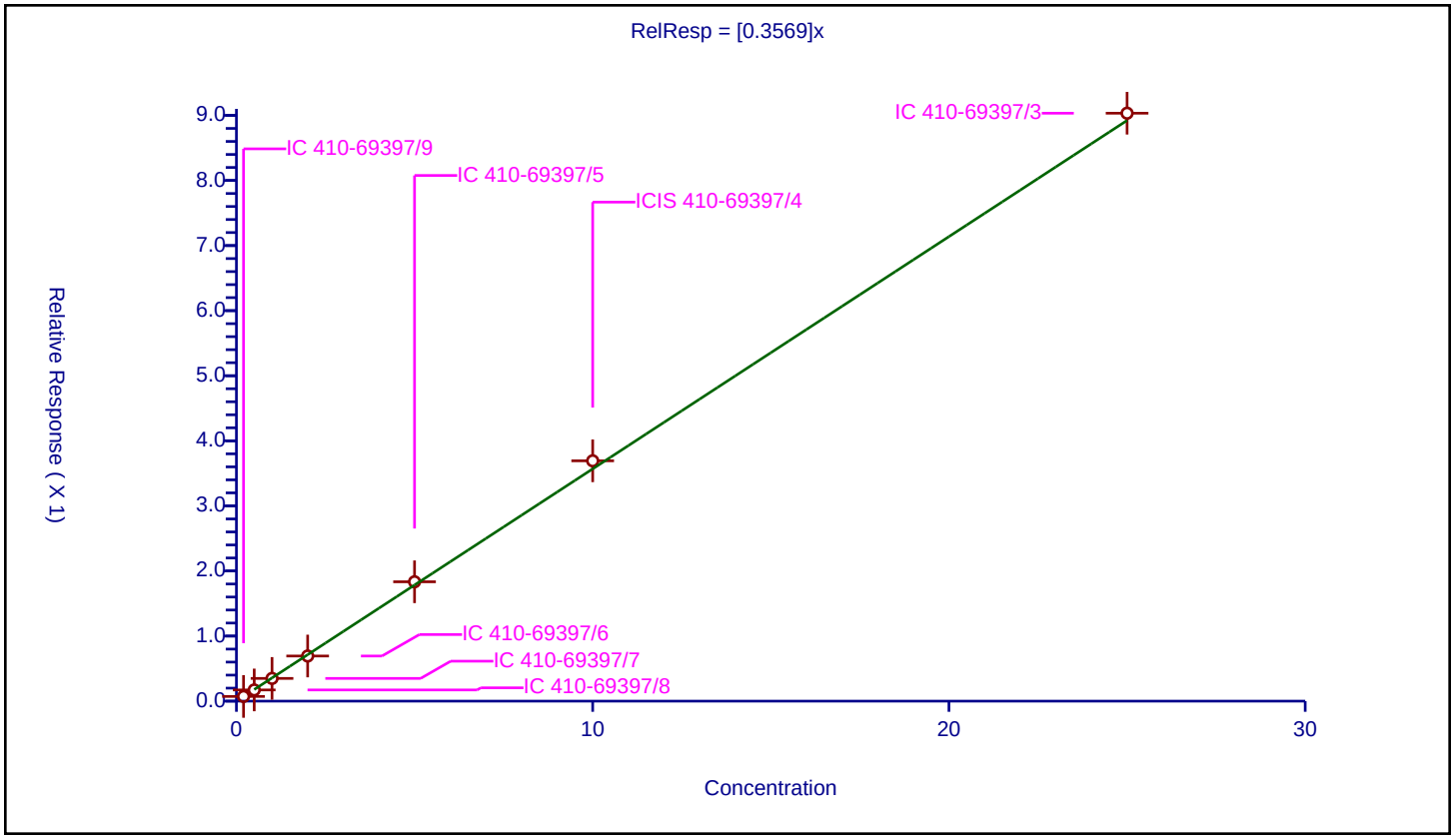
Curve Coefficients

Intercept:	0
Slope:	0.3569

Error Coefficients

Standard Error:	834000
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 410-69397/9	0.2	0.072132	10.0	1980944.0	0.360661	Y
2	IC 410-69397/8	0.5	0.172143	10.0	1995085.0	0.344286	Y
3	IC 410-69397/7	1.0	0.349142	10.0	1986644.0	0.349142	Y
4	IC 410-69397/6	2.0	0.693452	10.0	1976128.0	0.346726	Y
5	IC 410-69397/5	5.0	1.83407	10.0	1978687.0	0.366814	Y
6	ICIS 410-69397/4	10.0	3.692582	10.0	2065893.0	0.369258	Y
7	IC 410-69397/3	25.0	9.033636	10.0	2051897.0	0.361345	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

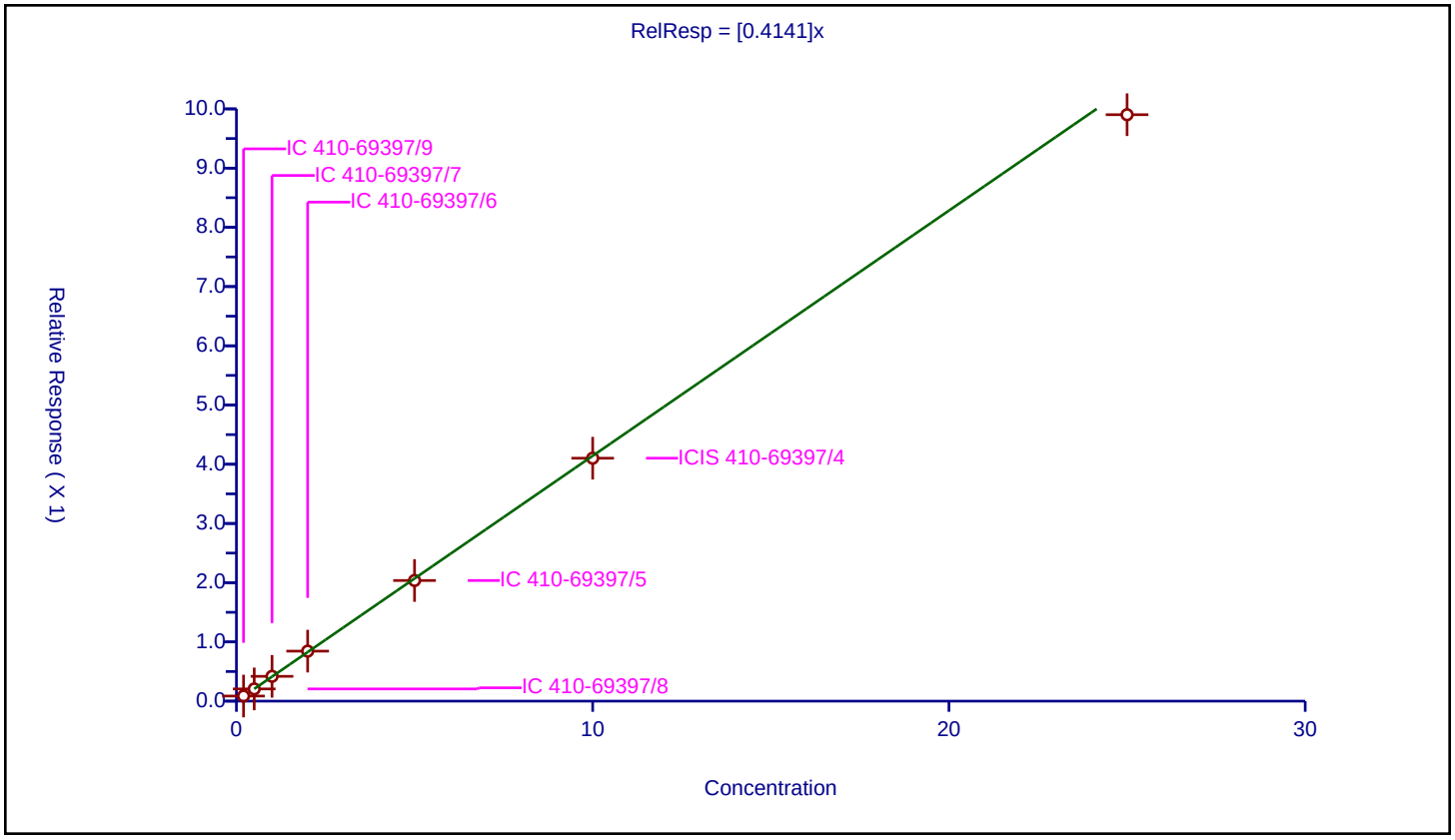
Curve Coefficients

Intercept:	0
Slope:	0.4141

Error Coefficients

Standard Error:	917000
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 410-69397/9	0.2	0.086302	10.0	1980944.0	0.431511	Y
2	IC 410-69397/8	0.5	0.206247	10.0	1995085.0	0.412494	Y
3	IC 410-69397/7	1.0	0.419124	10.0	1986644.0	0.419124	Y
4	IC 410-69397/6	2.0	0.844348	10.0	1976128.0	0.422174	Y
5	IC 410-69397/5	5.0	2.036952	10.0	1978687.0	0.40739	Y
6	ICIS 410-69397/4	10.0	4.102129	10.0	2065893.0	0.410213	Y
7	IC 410-69397/3	25.0	9.901798	10.0	2051897.0	0.396072	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

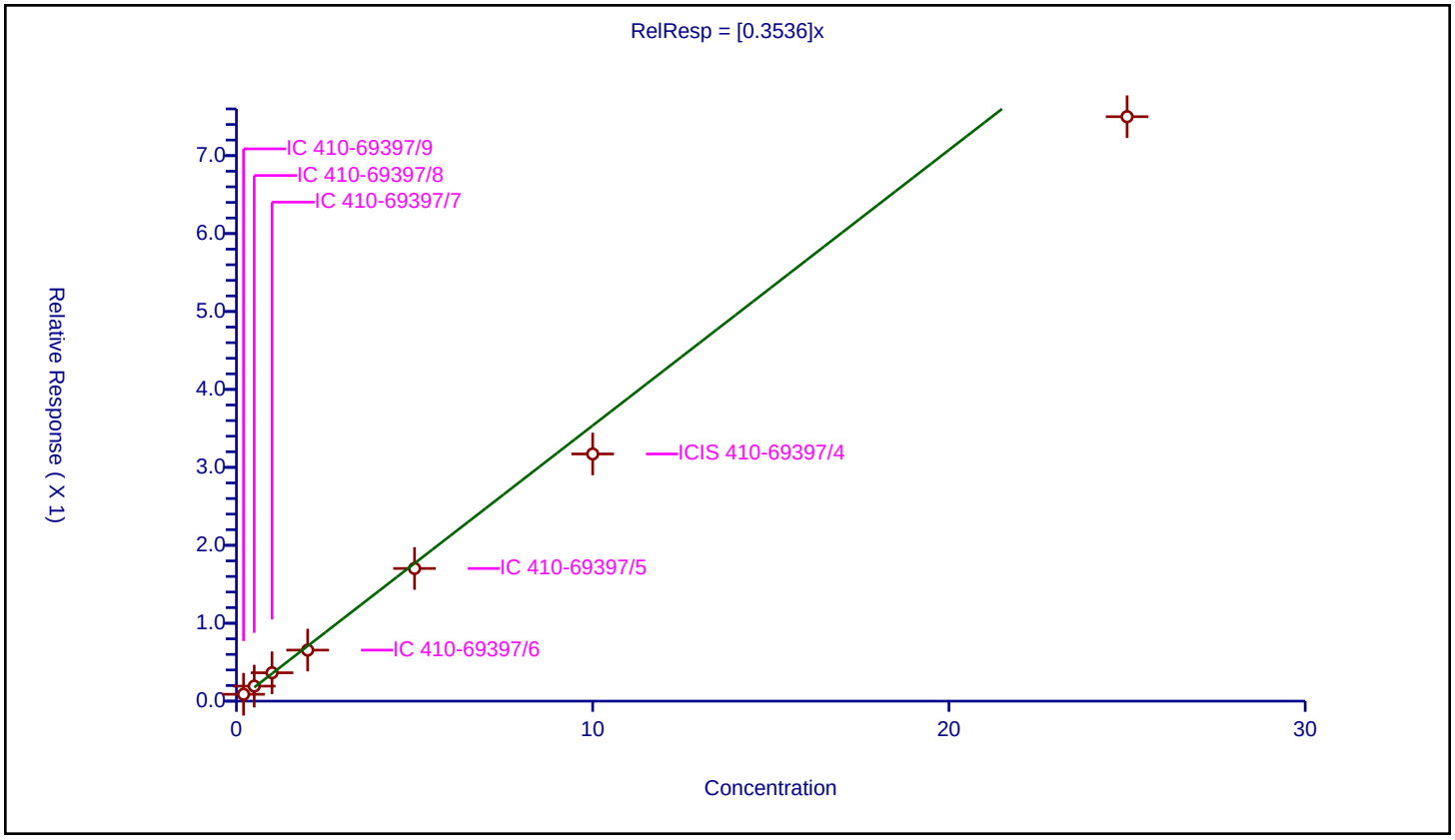
Curve Coefficients

Intercept:	0
Slope:	0.3536

Error Coefficients

Standard Error:	699000
Relative Standard Error:	13.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.08816	10.0	1980944.0	0.4408	Y
2	IC 410-69397/8	0.5	0.192568	10.0	1995085.0	0.385136	Y
3	IC 410-69397/7	1.0	0.364318	10.0	1986644.0	0.364318	Y
4	IC 410-69397/6	2.0	0.655135	10.0	1976128.0	0.327567	Y
5	IC 410-69397/5	5.0	1.702513	10.0	1978687.0	0.340503	Y
6	ICIS 410-69397/4	10.0	3.171868	10.0	2065893.0	0.317187	Y
7	IC 410-69397/3	25.0	7.500016	10.0	2051897.0	0.300001	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

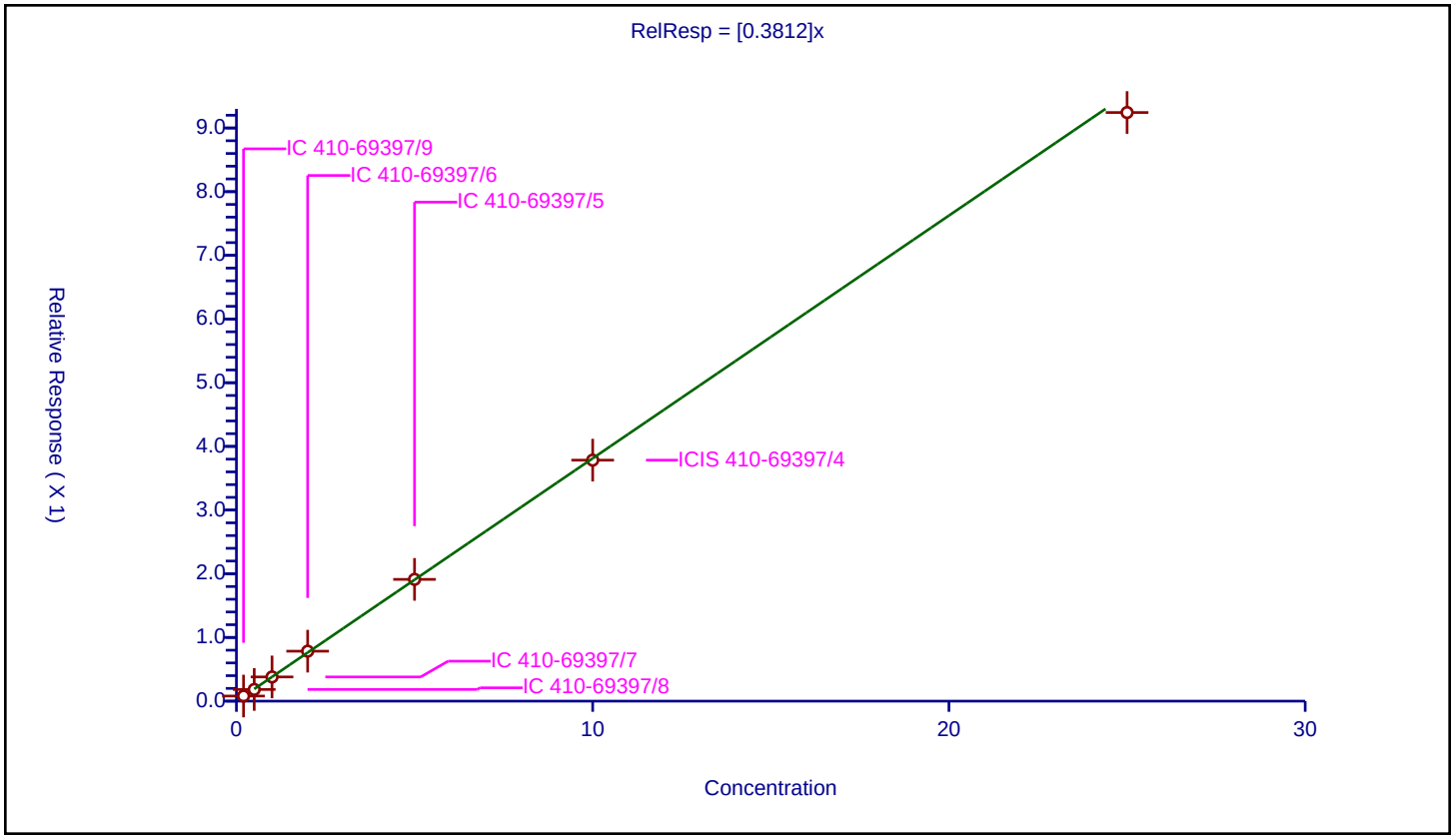
Curve Coefficients

Intercept:	0
Slope:	0.3812

Error Coefficients

Standard Error:	855000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.079881	10.0	1980944.0	0.399406	Y
2	IC 410-69397/8	0.5	0.183225	10.0	1995085.0	0.366451	Y
3	IC 410-69397/7	1.0	0.380123	10.0	1986644.0	0.380123	Y
4	IC 410-69397/6	2.0	0.784286	10.0	1976128.0	0.392143	Y
5	IC 410-69397/5	5.0	1.91198	10.0	1978687.0	0.382396	Y
6	ICIS 410-69397/4	10.0	3.784422	10.0	2065893.0	0.378442	Y
7	IC 410-69397/3	25.0	9.243096	10.0	2051897.0	0.369724	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

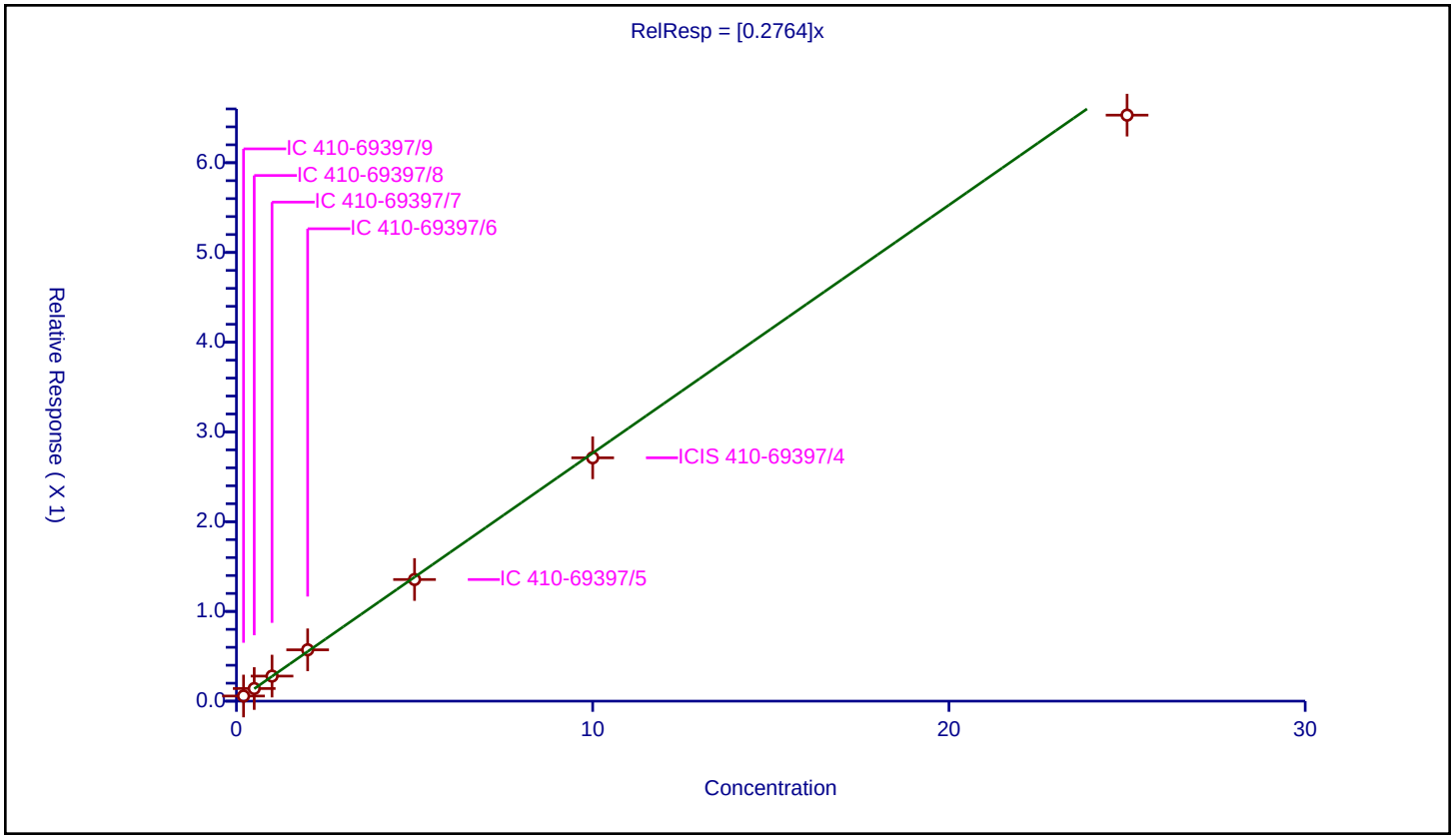
Curve Coefficients

Intercept:	0
Slope:	0.2764

Error Coefficients

Standard Error:	605000
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 410-69397/9	0.2	0.057094	10.0	1980944.0	0.28547	Y
2	IC 410-69397/8	0.5	0.140455	10.0	1995085.0	0.28091	Y
3	IC 410-69397/7	1.0	0.279109	10.0	1986644.0	0.279109	Y
4	IC 410-69397/6	2.0	0.572124	10.0	1976128.0	0.286062	Y
5	IC 410-69397/5	5.0	1.35547	10.0	1978687.0	0.271094	Y
6	ICIS 410-69397/4	10.0	2.711675	10.0	2065893.0	0.271167	Y
7	IC 410-69397/3	25.0	6.530406	10.0	2051897.0	0.261216	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

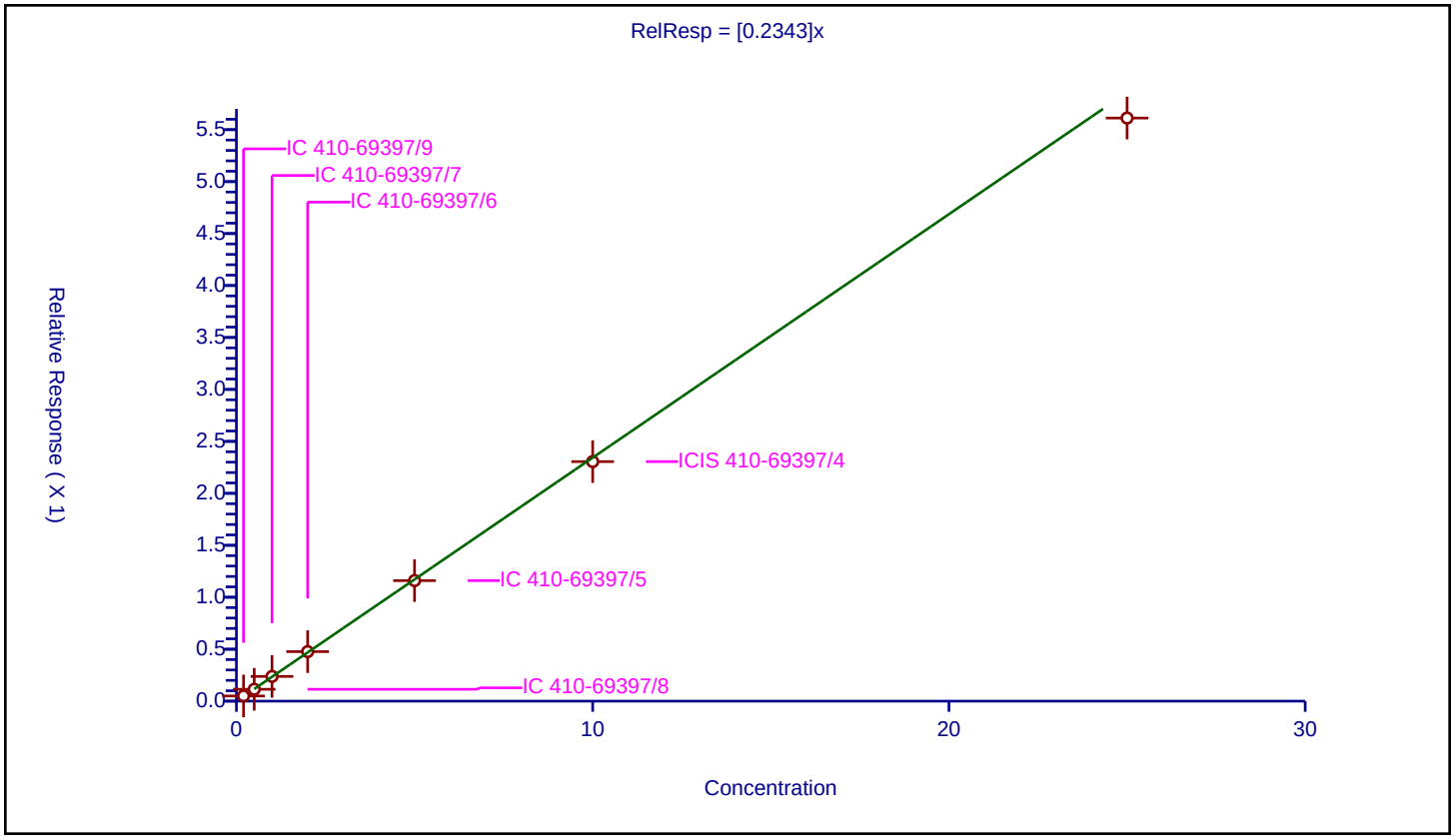
Curve Coefficients

Intercept:	0
Slope:	0.2343

Error Coefficients

Standard Error:	519000
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 410-69397/9	0.2	0.049714	10.0	1980944.0	0.248568	Y
2	IC 410-69397/8	0.5	0.114216	10.0	1995085.0	0.228431	Y
3	IC 410-69397/7	1.0	0.238025	10.0	1986644.0	0.238025	Y
4	IC 410-69397/6	2.0	0.476548	10.0	1976128.0	0.238274	Y
5	IC 410-69397/5	5.0	1.160002	10.0	1978687.0	0.232	Y
6	ICIS 410-69397/4	10.0	2.30541	10.0	2065893.0	0.230541	Y
7	IC 410-69397/3	25.0	5.611739	10.0	2051897.0	0.22447	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

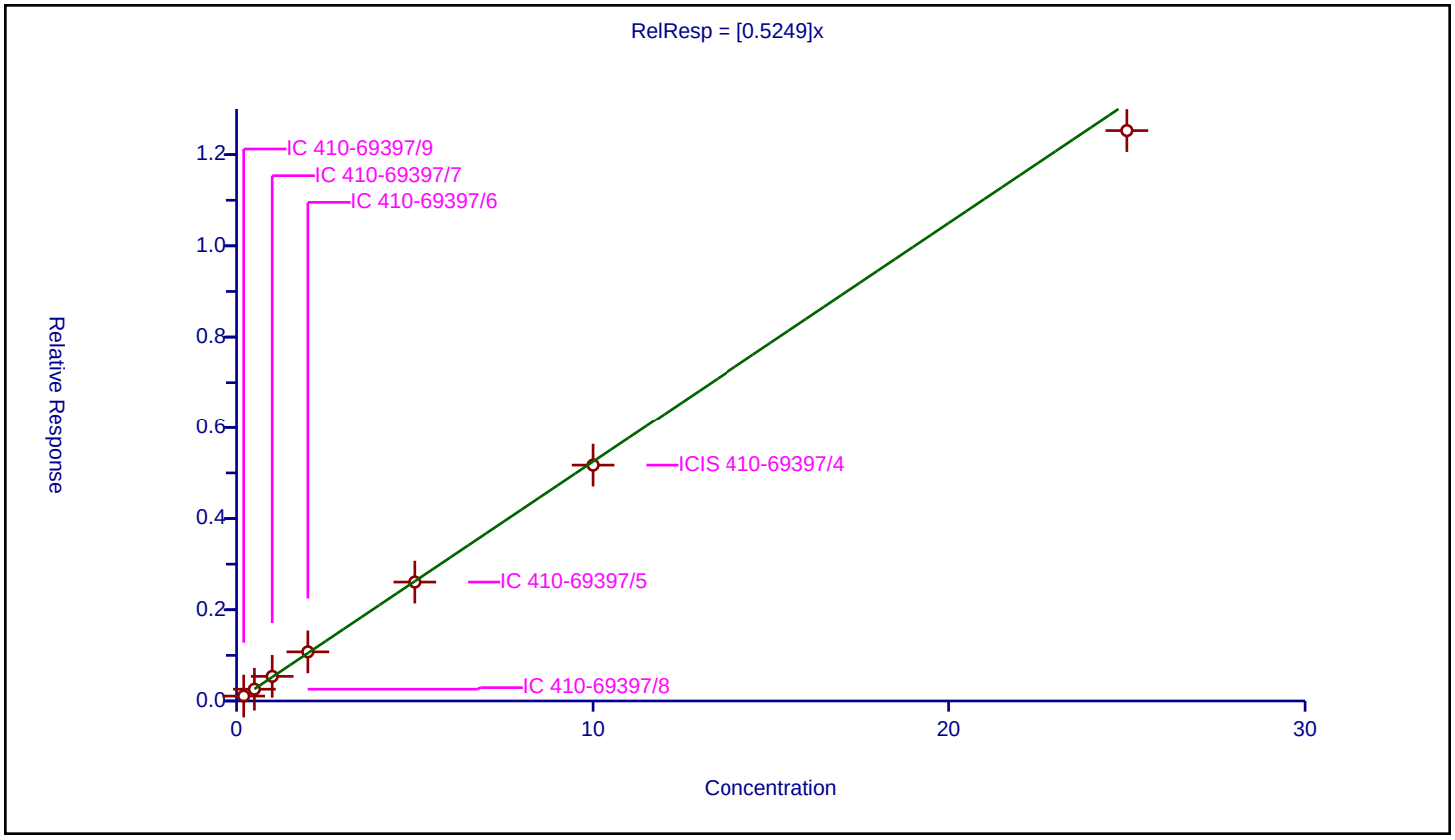
Curve Coefficients

Intercept:	0
Slope:	0.5249

Error Coefficients

Standard Error:	1160000
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 410-69397/9	0.2	0.10811	10.0	1980944.0	0.54055	Y
2	IC 410-69397/8	0.5	0.257994	10.0	1995085.0	0.515988	Y
3	IC 410-69397/7	1.0	0.539905	10.0	1986644.0	0.539905	Y
4	IC 410-69397/6	2.0	1.076985	10.0	1976128.0	0.538492	Y
5	IC 410-69397/5	5.0	2.607274	10.0	1978687.0	0.521455	Y
6	ICIS 410-69397/4	10.0	5.17156	10.0	2065893.0	0.517156	Y
7	IC 410-69397/3	25.0	12.526759	10.0	2051897.0	0.50107	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

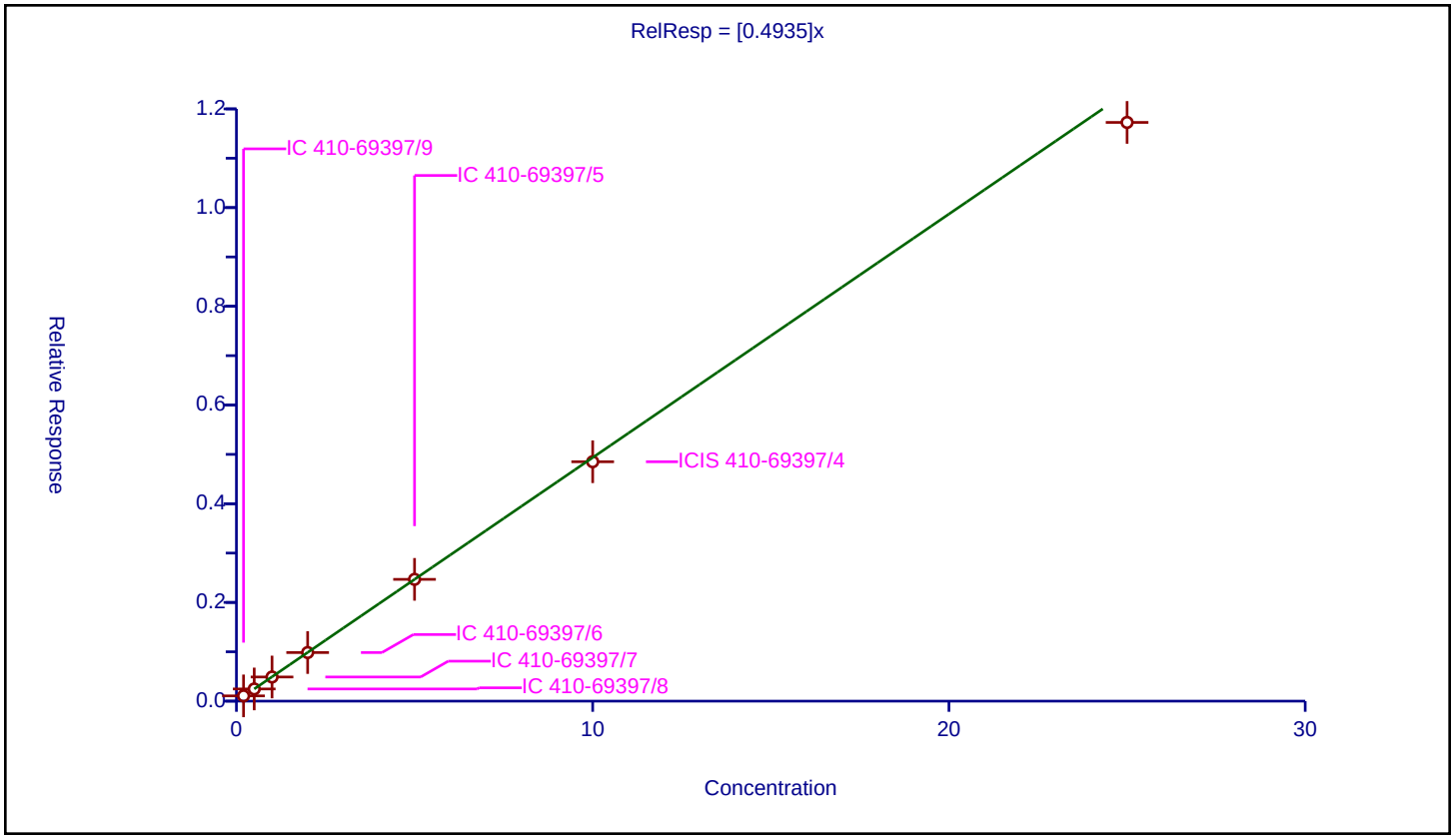
Curve Coefficients

Intercept:	0
Slope:	0.4935

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.106313	10.0	1980944.0	0.531565	Y
2	IC 410-69397/8	0.5	0.246711	10.0	1995085.0	0.493423	Y
3	IC 410-69397/7	1.0	0.489449	10.0	1986644.0	0.489449	Y
4	IC 410-69397/6	2.0	0.98441	10.0	1976128.0	0.492205	Y
5	IC 410-69397/5	5.0	2.467515	10.0	1978687.0	0.493503	Y
6	ICIS 410-69397/4	10.0	4.850658	10.0	2065893.0	0.485066	Y
7	IC 410-69397/3	25.0	11.726115	10.0	2051897.0	0.469045	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

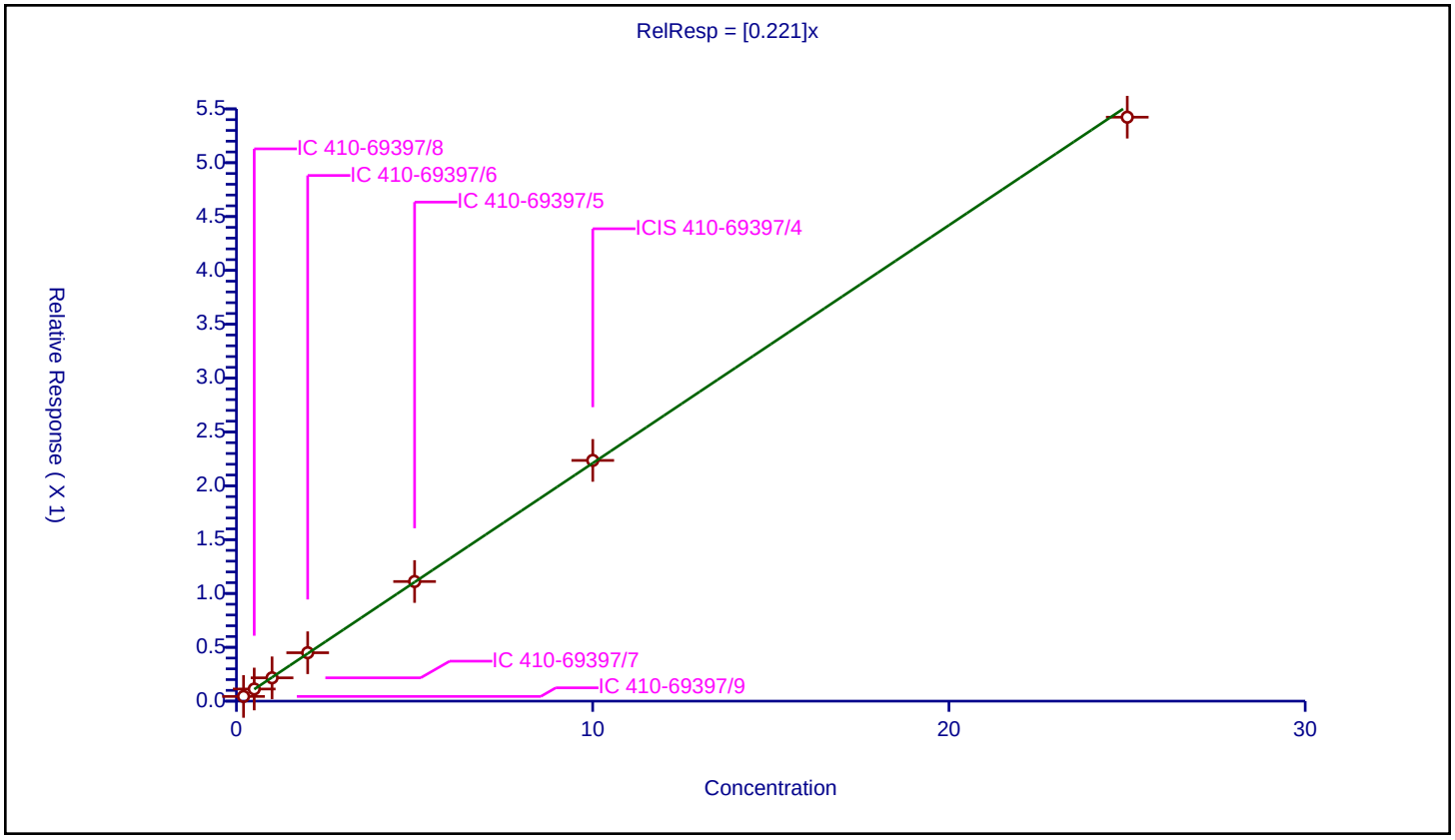
Curve Coefficients

Intercept:	0
Slope:	0.221

Error Coefficients

Standard Error:	502000
Relative Standard Error:	1.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.200043	0.04356	10.0	1980944.0	0.217753	Y
2	IC 410-69397/8	0.500108	0.112712	10.0	1995085.0	0.225376	Y
3	IC 410-69397/7	1.000215	0.216581	10.0	1986644.0	0.216535	Y
4	IC 410-69397/6	2.00043	0.449495	10.0	1976128.0	0.224699	Y
5	IC 410-69397/5	5.001075	1.111015	10.0	1978687.0	0.222155	Y
6	ICIS 410-69397/4	10.00215	2.235634	10.0	2065893.0	0.223515	Y
7	IC 410-69397/3	25.005375	5.422977	10.0	2051897.0	0.216872	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

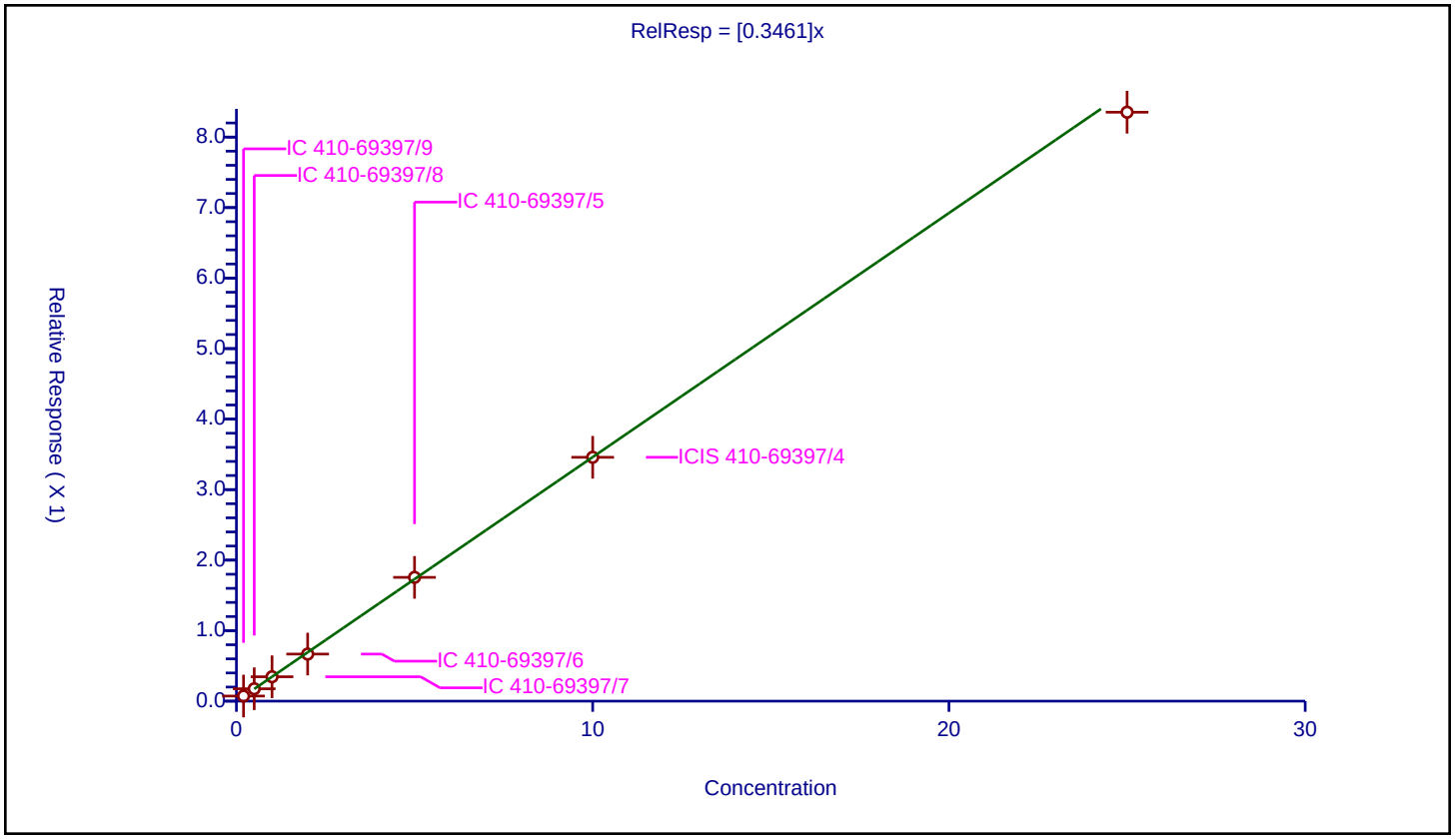
Curve Coefficients

Intercept:	0
Slope:	0.3461

Error Coefficients

Standard Error:	774000
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 410-69397/9	0.2	0.072253	10.0	1980944.0	0.361267	Y
2	IC 410-69397/8	0.5	0.175431	10.0	1995085.0	0.350862	Y
3	IC 410-69397/7	1.0	0.345945	10.0	1986644.0	0.345945	Y
4	IC 410-69397/6	2.0	0.667649	10.0	1976128.0	0.333825	Y
5	IC 410-69397/5	5.0	1.755599	10.0	1978687.0	0.35112	Y
6	ICIS 410-69397/4	10.0	3.458495	10.0	2065893.0	0.345849	Y
7	IC 410-69397/3	25.0	8.352802	10.0	2051897.0	0.334112	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

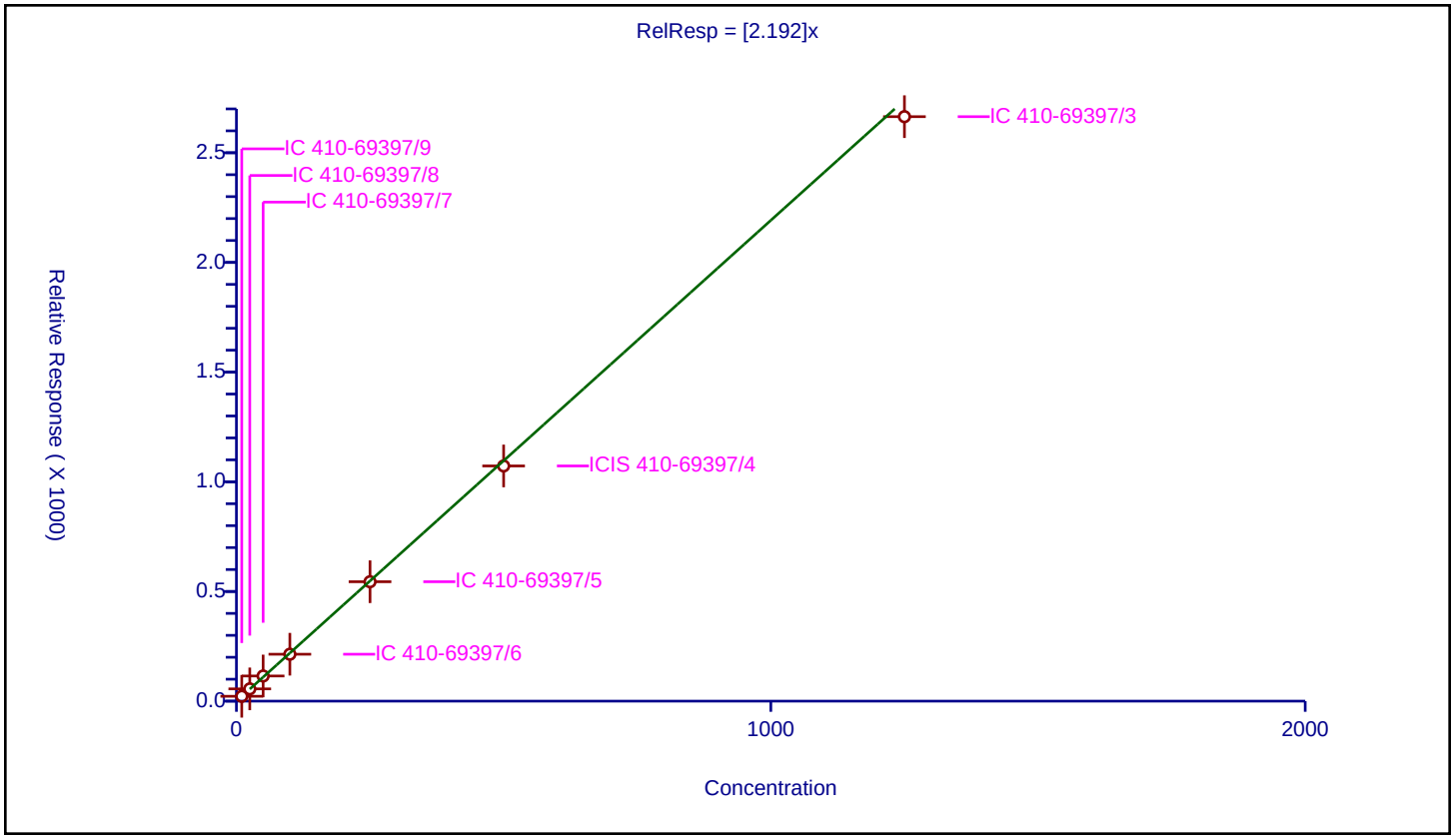
Curve Coefficients

Intercept:	0
Slope:	2.192

Error Coefficients

Standard Error:	4040000
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 410-69397/9	10.000292	22.21217	50.0	157506.0	2.221152	Y
2	IC 410-69397/8	25.000729	55.887195	50.0	156713.0	2.235423	Y
3	IC 410-69397/7	50.001458	114.705598	50.0	155400.0	2.294045	Y
4	IC 410-69397/6	100.002917	213.90472	50.0	164063.0	2.138985	Y
5	IC 410-69397/5	250.007292	544.371096	50.0	167919.0	2.177421	Y
6	ICIS 410-69397/4	500.014585	1072.264009	50.0	174562.0	2.144465	Y
7	IC 410-69397/3	1250.036462	2664.600045	50.0	168044.0	2.131618	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

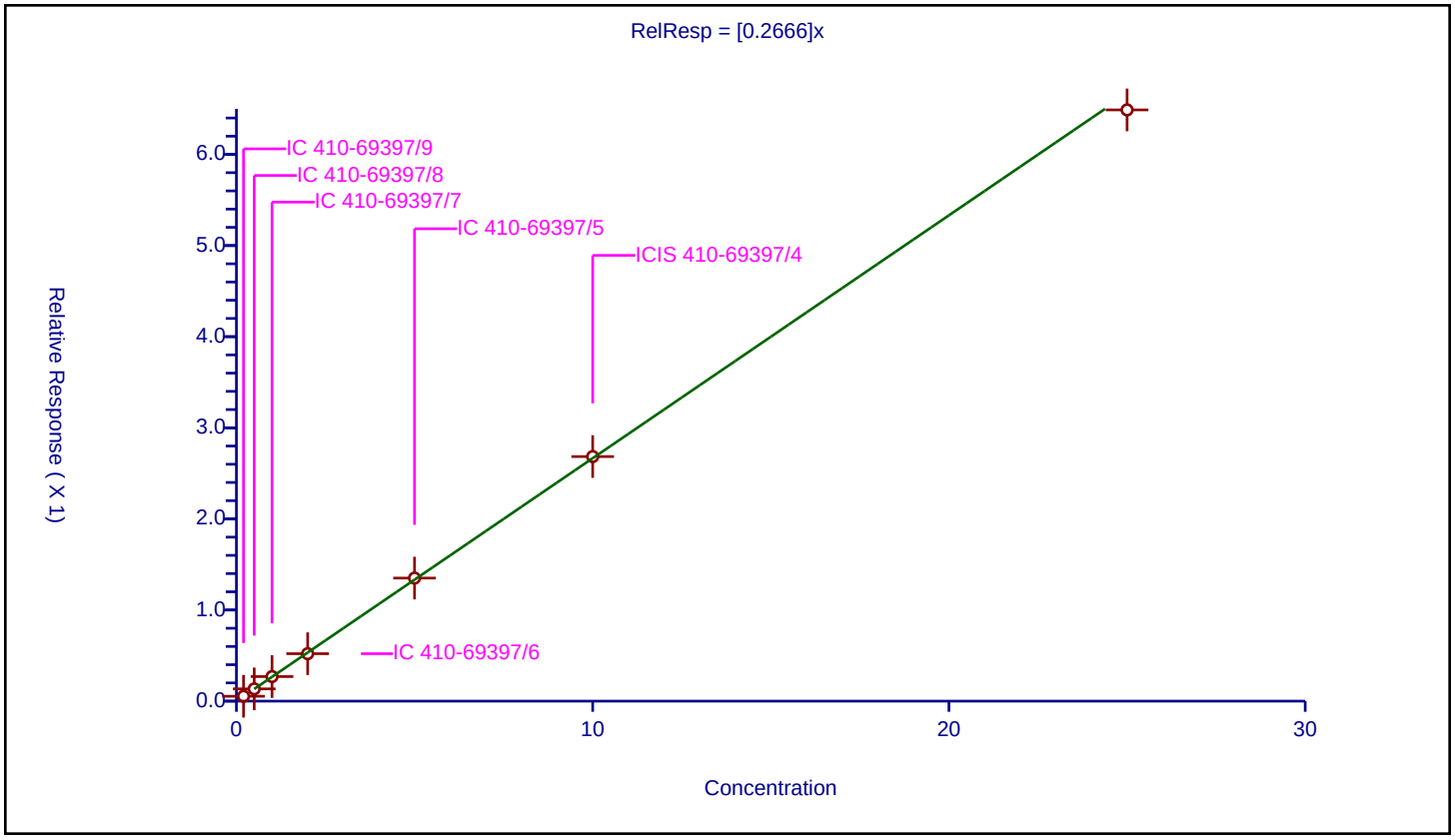
Curve Coefficients

Intercept:	0
Slope:	0.2666

Error Coefficients

Standard Error:	601000
Relative Standard Error:	1.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.053752	10.0	1980944.0	0.268761	Y
2	IC 410-69397/8	0.5	0.134561	10.0	1995085.0	0.269121	Y
3	IC 410-69397/7	1.0	0.269787	10.0	1986644.0	0.269787	Y
4	IC 410-69397/6	2.0	0.520801	10.0	1976128.0	0.260401	Y
5	IC 410-69397/5	5.0	1.350749	10.0	1978687.0	0.27015	Y
6	ICIS 410-69397/4	10.0	2.684074	10.0	2065893.0	0.268407	Y
7	IC 410-69397/3	25.0	6.488815	10.0	2051897.0	0.259553	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

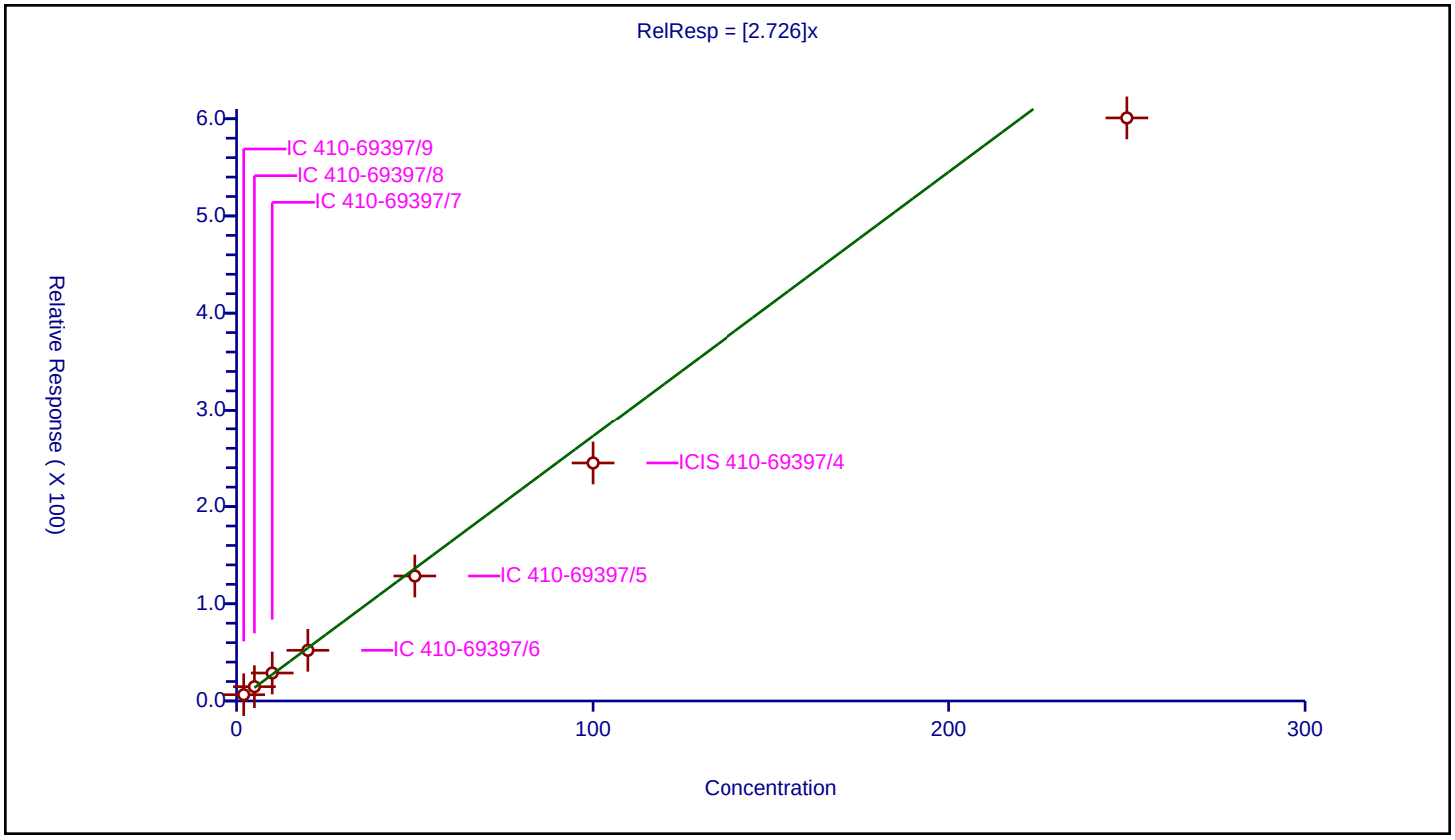
Curve Coefficients

Intercept:	0
Slope:	2.726

Error Coefficients

Standard Error:	916000
Relative Standard Error:	11.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	2.0	6.460706	50.0	157506.0	3.230353	Y
2	IC 410-69397/8	5.0	14.710011	50.0	156713.0	2.942002	Y
3	IC 410-69397/7	10.0	28.789575	50.0	155400.0	2.878958	Y
4	IC 410-69397/6	20.0	52.133936	50.0	164063.0	2.606697	Y
5	IC 410-69397/5	50.0	128.587593	50.0	167919.0	2.571752	Y
6	ICIS 410-69397/4	100.0	244.85455	50.0	174562.0	2.448546	Y
7	IC 410-69397/3	250.0	600.824486	50.0	168044.0	2.403298	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

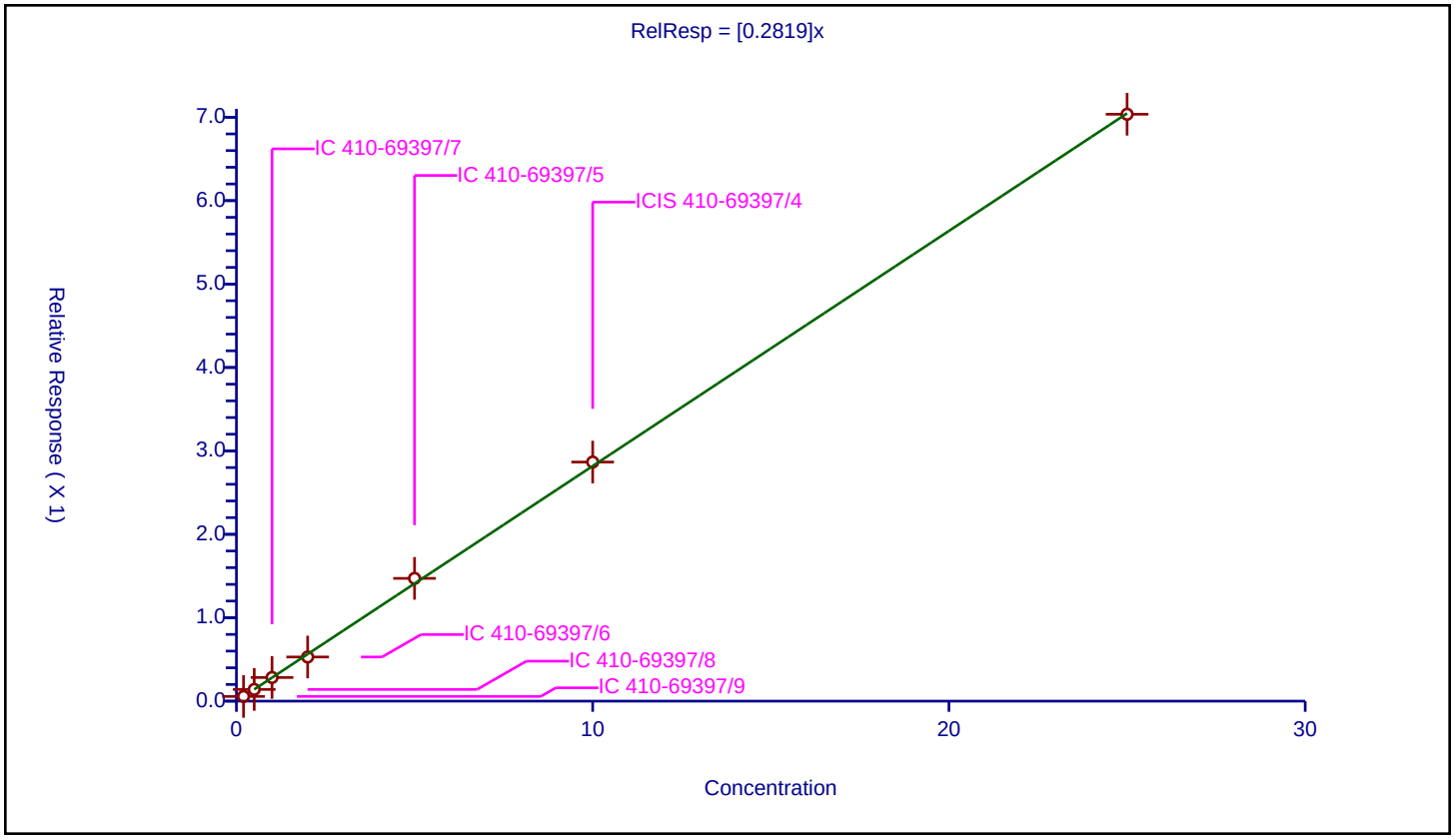
Curve Coefficients

Intercept:	0
Slope:	0.2819

Error Coefficients

Standard Error:	650000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.056317	10.0	1980944.0	0.281583	Y
2	IC 410-69397/8	0.5	0.14043	10.0	1995085.0	0.28086	Y
3	IC 410-69397/7	1.0	0.283533	10.0	1986644.0	0.283533	Y
4	IC 410-69397/6	2.0	0.529277	10.0	1976128.0	0.264639	Y
5	IC 410-69397/5	5.0	1.471794	10.0	1978687.0	0.294359	Y
6	ICIS 410-69397/4	10.0	2.866058	10.0	2065893.0	0.286606	Y
7	IC 410-69397/3	25.0	7.035957	10.0	2051897.0	0.281438	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

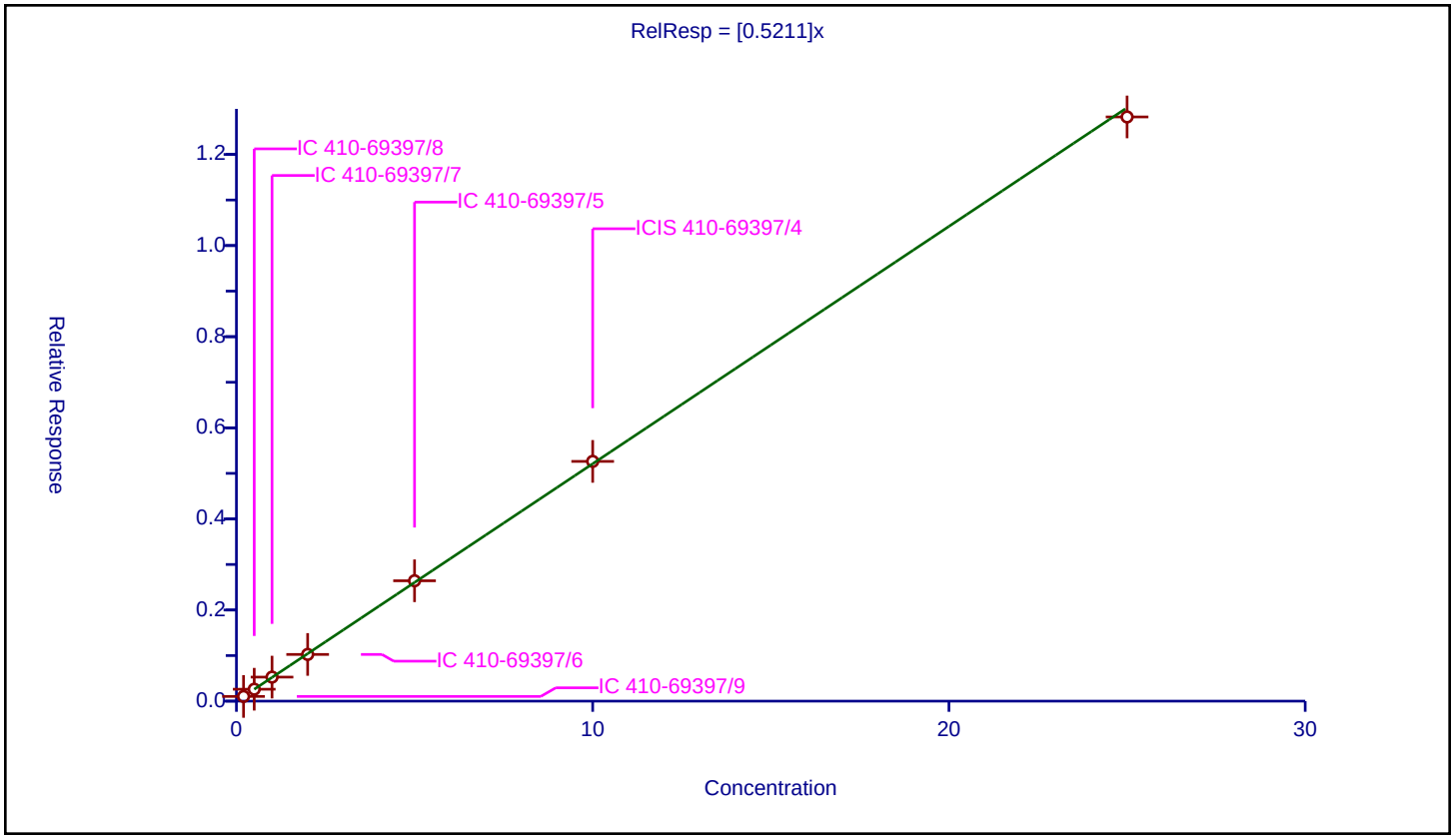
Curve Coefficients

Intercept:	0
Slope:	0.5211

Error Coefficients

Standard Error:	1190000
Relative Standard Error:	1.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.103249	10.0	1980944.0	0.516244	Y
2	IC 410-69397/8	0.5	0.261653	10.0	1995085.0	0.523306	Y
3	IC 410-69397/7	1.0	0.527709	10.0	1986644.0	0.527709	Y
4	IC 410-69397/6	2.0	1.025171	10.0	1976128.0	0.512586	Y
5	IC 410-69397/5	5.0	2.641934	10.0	1978687.0	0.528387	Y
6	ICIS 410-69397/4	10.0	5.262683	10.0	2065893.0	0.526268	Y
7	IC 410-69397/3	25.0	12.823368	10.0	2051897.0	0.512935	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

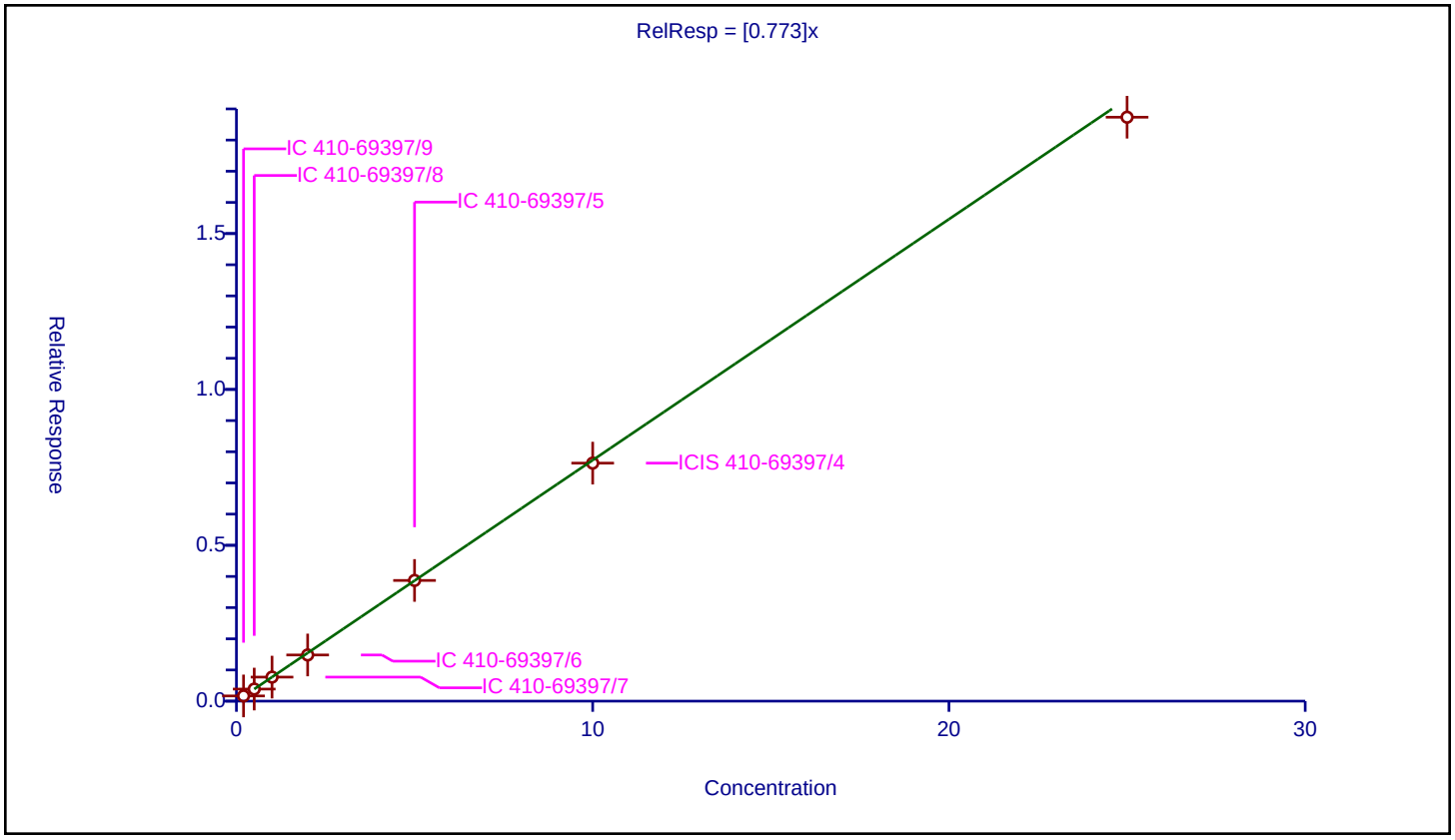
Curve Coefficients

Intercept:	0
Slope:	0.773

Error Coefficients

Standard Error:	1730000
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 410-69397/9	0.2	0.167344	10.0	1980944.0	0.836722	Y
2	IC 410-69397/8	0.5	0.387673	10.0	1995085.0	0.775345	Y
3	IC 410-69397/7	1.0	0.771301	10.0	1986644.0	0.771301	Y
4	IC 410-69397/6	2.0	1.481498	10.0	1976128.0	0.740749	Y
5	IC 410-69397/5	5.0	3.871628	10.0	1978687.0	0.774326	Y
6	ICIS 410-69397/4	10.0	7.635444	10.0	2065893.0	0.763544	Y
7	IC 410-69397/3	25.0	18.733377	10.0	2051897.0	0.749335	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

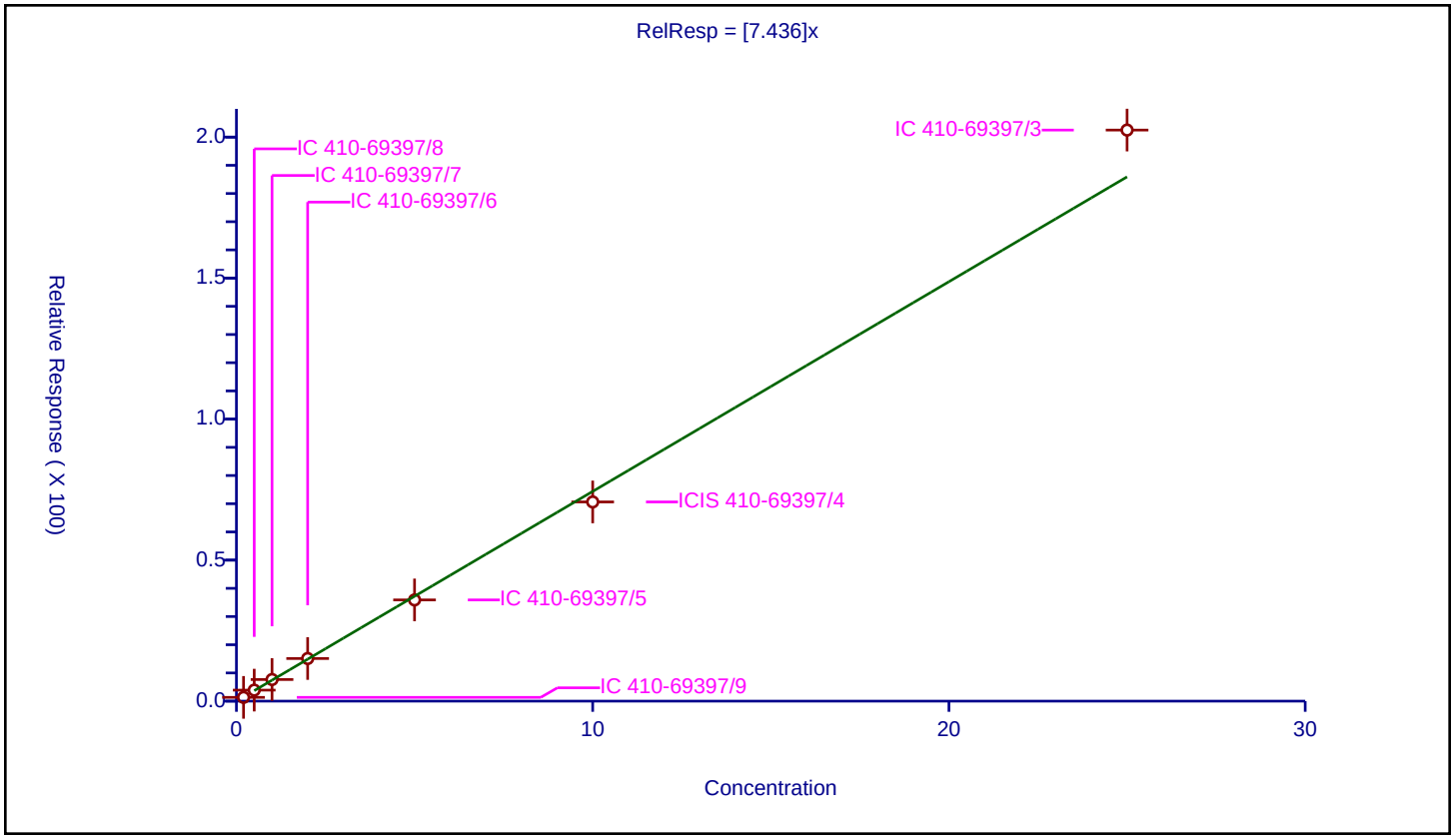
Curve Coefficients

Intercept:	0
Slope:	7.436

Error Coefficients

Standard Error:	300000
Relative Standard Error:	6.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	1.338679	50.0	157506.0	6.693396	Y
2	IC 410-69397/8	0.5	3.90108	50.0	156713.0	7.802161	Y
3	IC 410-69397/7	1.0	7.662484	50.0	155400.0	7.662484	Y
4	IC 410-69397/6	2.0	15.112487	50.0	164063.0	7.556244	Y
5	IC 410-69397/5	5.0	35.887541	50.0	167919.0	7.177508	Y
6	ICIS 410-69397/4	10.0	70.636507	50.0	174562.0	7.063651	Y
7	IC 410-69397/3	25.0	202.495477	50.0	168044.0	8.099819	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

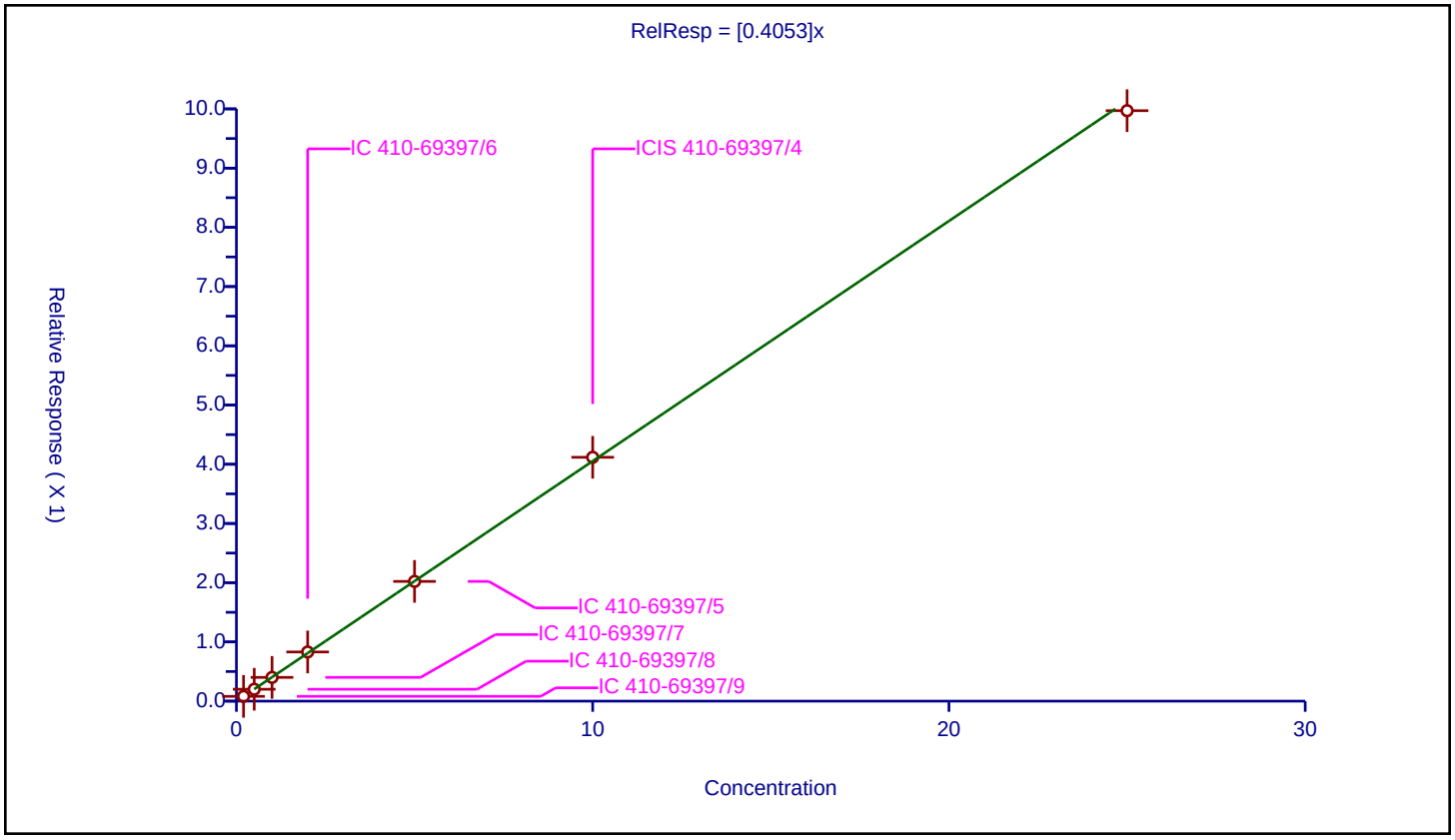
Curve Coefficients

Intercept:	0
Slope:	0.4053

Error Coefficients

Standard Error:	922000
Relative Standard Error:	1.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.080931	10.0	1980944.0	0.404656	Y
2	IC 410-69397/8	0.5	0.200894	10.0	1995085.0	0.401787	Y
3	IC 410-69397/7	1.0	0.400731	10.0	1986644.0	0.400731	Y
4	IC 410-69397/6	2.0	0.830579	10.0	1976128.0	0.415289	Y
5	IC 410-69397/5	5.0	2.021735	10.0	1978687.0	0.404347	Y
6	ICIS 410-69397/4	10.0	4.117285	10.0	2065893.0	0.411728	Y
7	IC 410-69397/3	25.0	9.96975	10.0	2051897.0	0.39879	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

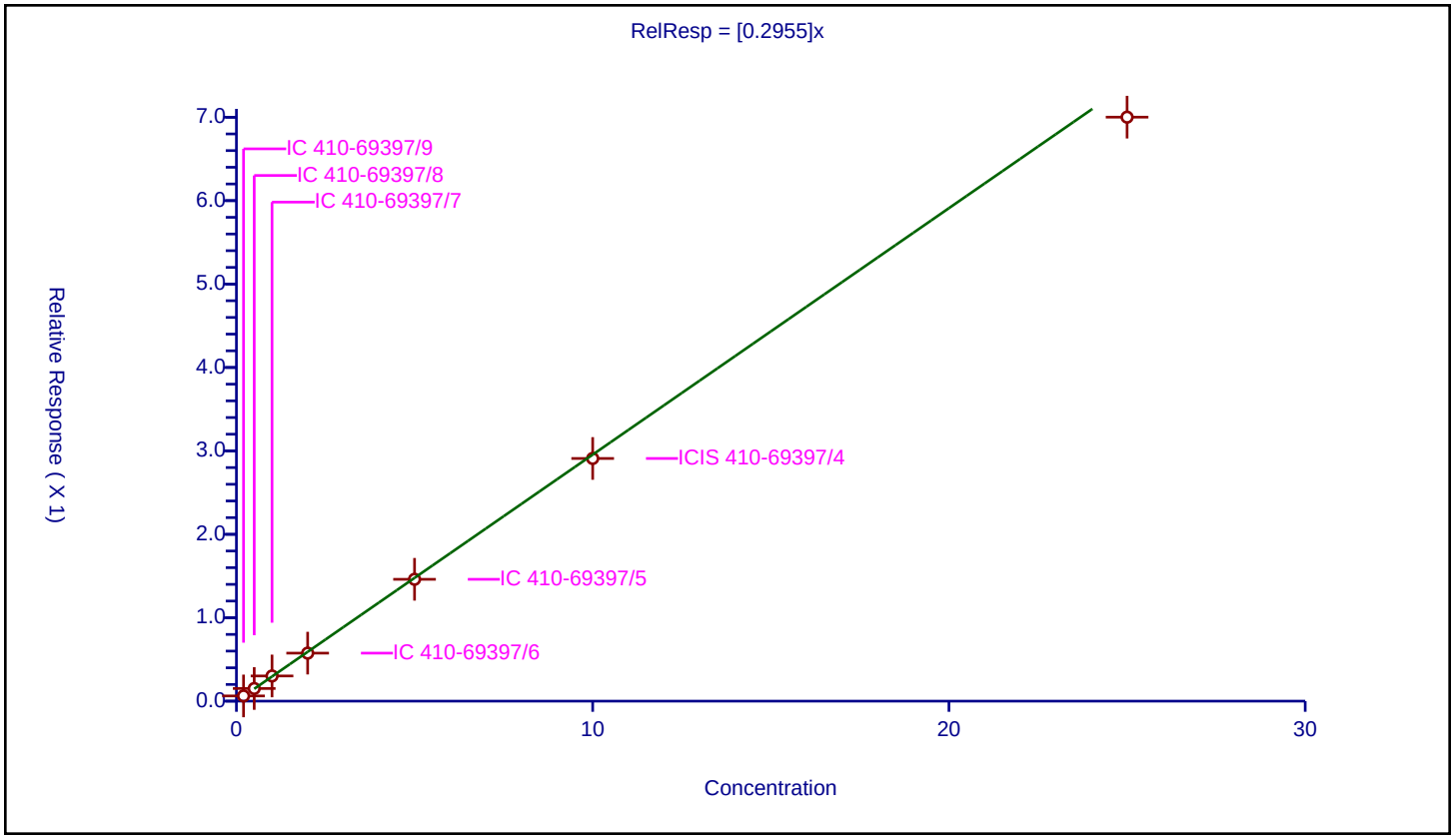
Curve Coefficients

Intercept:	0
Slope:	0.2955

Error Coefficients

Standard Error:	649000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.062551	10.0	1980944.0	0.312755	Y
2	IC 410-69397/8	0.5	0.151578	10.0	1995085.0	0.303155	Y
3	IC 410-69397/7	1.0	0.301735	10.0	1986644.0	0.301735	Y
4	IC 410-69397/6	2.0	0.575423	10.0	1976128.0	0.287712	Y
5	IC 410-69397/5	5.0	1.460767	10.0	1978687.0	0.292153	Y
6	ICIS 410-69397/4	10.0	2.909347	10.0	2065893.0	0.290935	Y
7	IC 410-69397/3	25.0	7.000883	10.0	2051897.0	0.280035	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

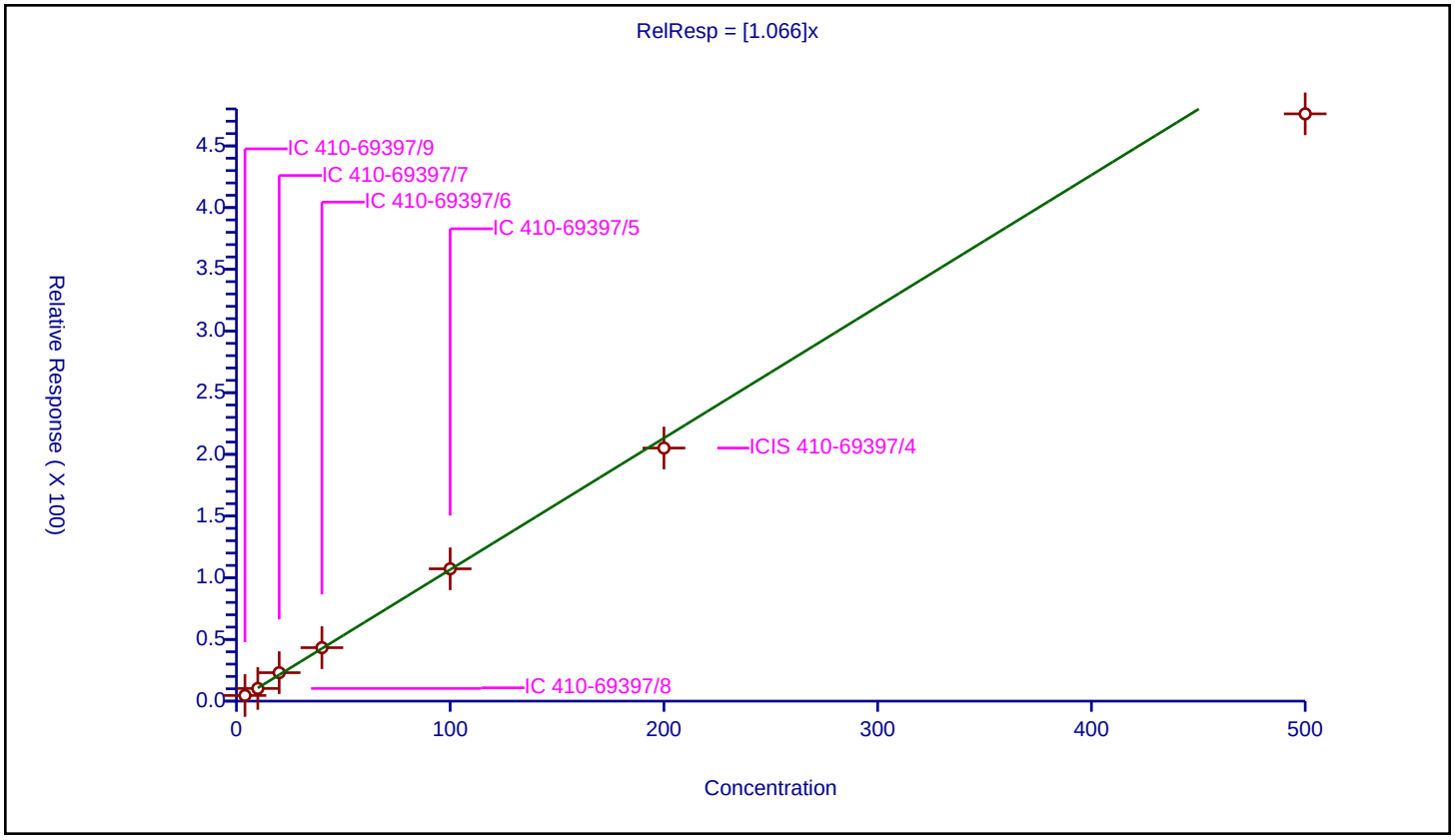
Curve Coefficients

Intercept:	0
Slope:	1.066

Error Coefficients

Standard Error:	733000
Relative Standard Error:	6.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	4.0	4.592206	50.0	157506.0	1.148052	Y
2	IC 410-69397/8	10.0	10.273876	50.0	156713.0	1.027388	Y
3	IC 410-69397/7	20.0	23.062741	50.0	155400.0	1.153137	Y
4	IC 410-69397/6	40.0	43.332439	50.0	164063.0	1.083311	Y
5	IC 410-69397/5	100.0	107.245458	50.0	167919.0	1.072455	Y
6	ICIS 410-69397/4	200.0	205.130842	50.0	174562.0	1.025654	Y
7	IC 410-69397/3	500.0	475.988134	50.0	168044.0	0.951976	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

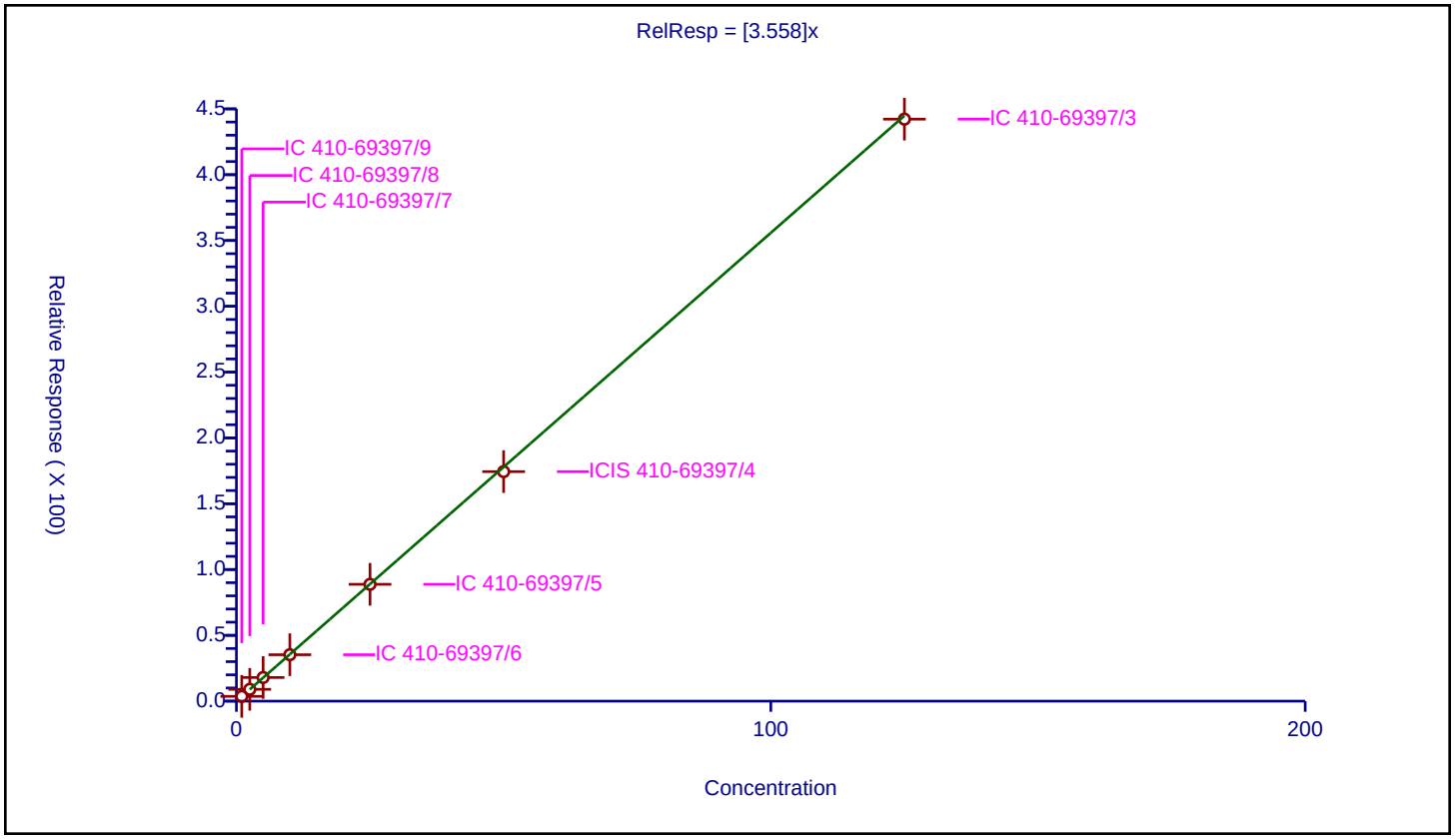
Curve Coefficients

Intercept:	0
Slope:	3.558

Error Coefficients

Standard Error:	669000
Relative Standard Error:	1.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	1.0	3.623989	50.0	157506.0	3.623989	Y
2	IC 410-69397/8	2.5	8.97692	50.0	156713.0	3.590768	Y
3	IC 410-69397/7	5.0	17.951416	50.0	155400.0	3.590283	Y
4	IC 410-69397/6	10.0	35.26115	50.0	164063.0	3.526115	Y
5	IC 410-69397/5	25.0	88.776434	50.0	167919.0	3.551057	Y
6	ICIS 410-69397/4	50.0	174.382741	50.0	174562.0	3.487655	Y
7	IC 410-69397/3	125.0	442.204125	50.0	168044.0	3.537633	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

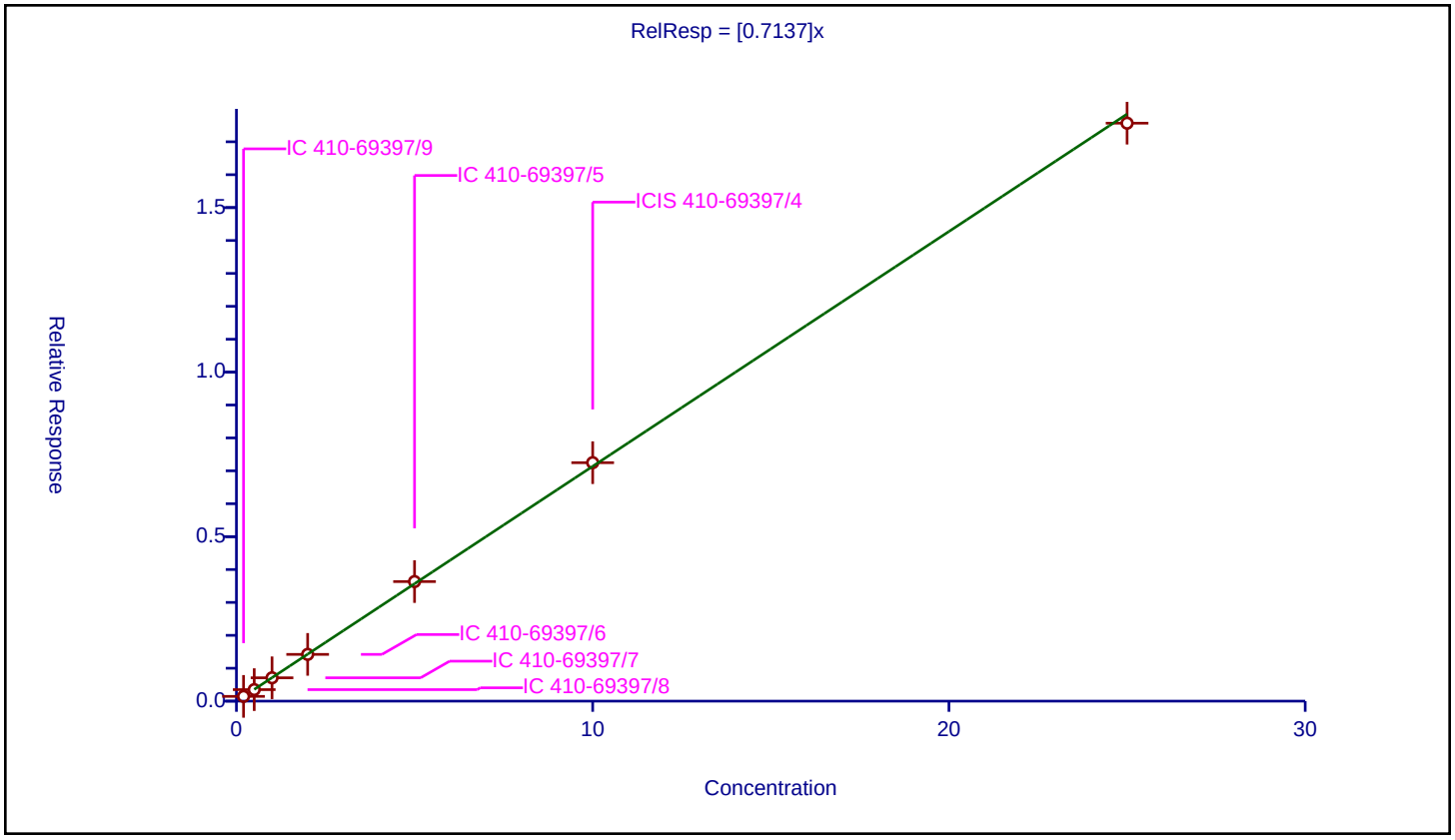
Curve Coefficients

Intercept:	0
Slope:	0.7137

Error Coefficients

Standard Error:	1630000
Relative Standard Error:	1.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.14429	10.0	1980944.0	0.721449	Y
2	IC 410-69397/8	0.5	0.350135	10.0	1995085.0	0.700271	Y
3	IC 410-69397/7	1.0	0.709644	10.0	1986644.0	0.709644	Y
4	IC 410-69397/6	2.0	1.420743	10.0	1976128.0	0.710371	Y
5	IC 410-69397/5	5.0	3.634511	10.0	1978687.0	0.726902	Y
6	ICIS 410-69397/4	10.0	7.247558	10.0	2065893.0	0.724756	Y
7	IC 410-69397/3	25.0	17.565804	10.0	2051897.0	0.702632	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

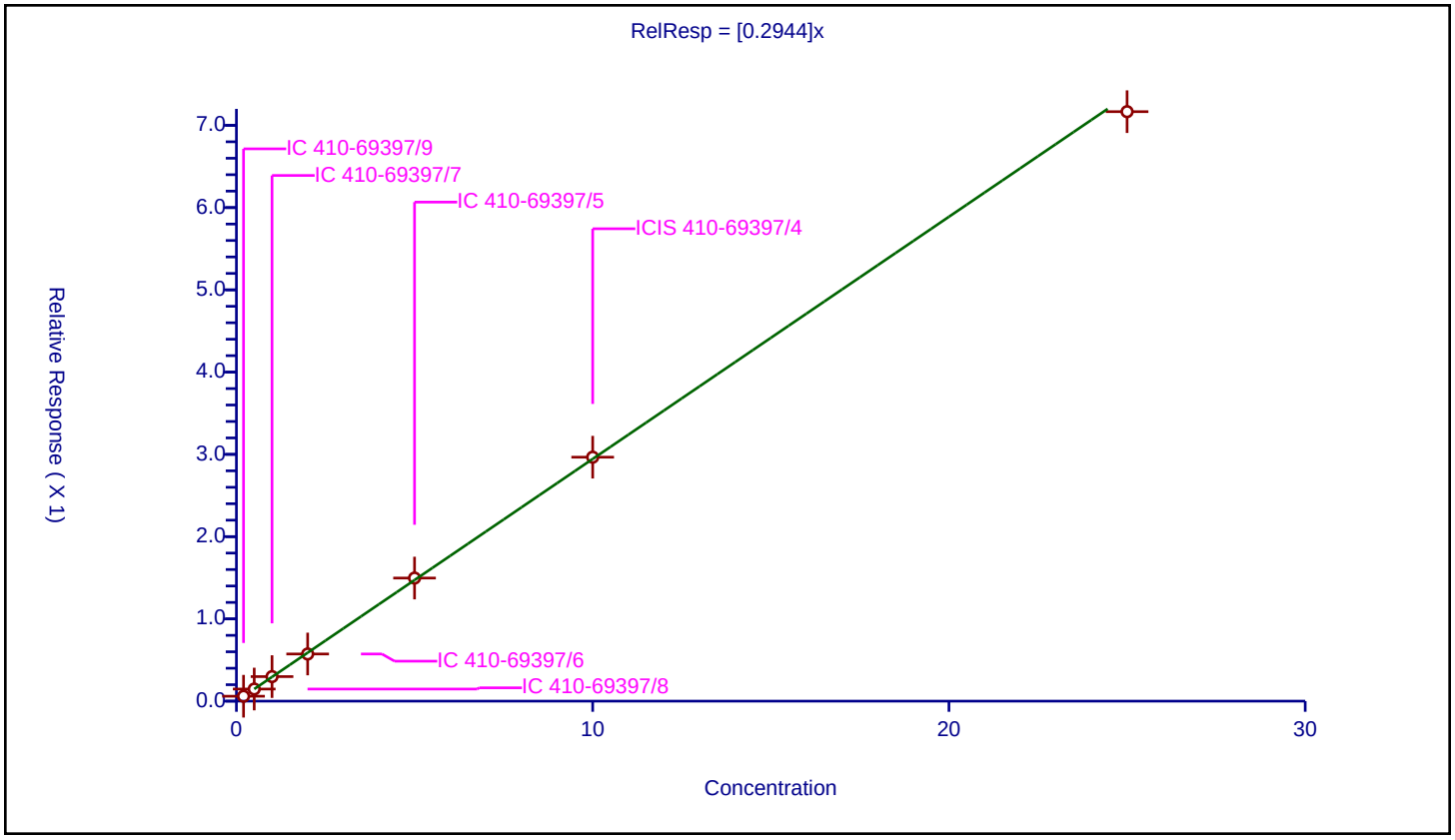
Curve Coefficients

Intercept:	0
Slope:	0.2944

Error Coefficients

Standard Error:	664000
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.059835	10.0	1980944.0	0.299176	Y
2	IC 410-69397/8	0.5	0.147041	10.0	1995085.0	0.294083	Y
3	IC 410-69397/7	1.0	0.298519	10.0	1986644.0	0.298519	Y
4	IC 410-69397/6	2.0	0.573333	10.0	1976128.0	0.286667	Y
5	IC 410-69397/5	5.0	1.496508	10.0	1978687.0	0.299302	Y
6	ICIS 410-69397/4	10.0	2.96573	10.0	2065893.0	0.296573	Y
7	IC 410-69397/3	25.0	7.166271	10.0	2051897.0	0.286651	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

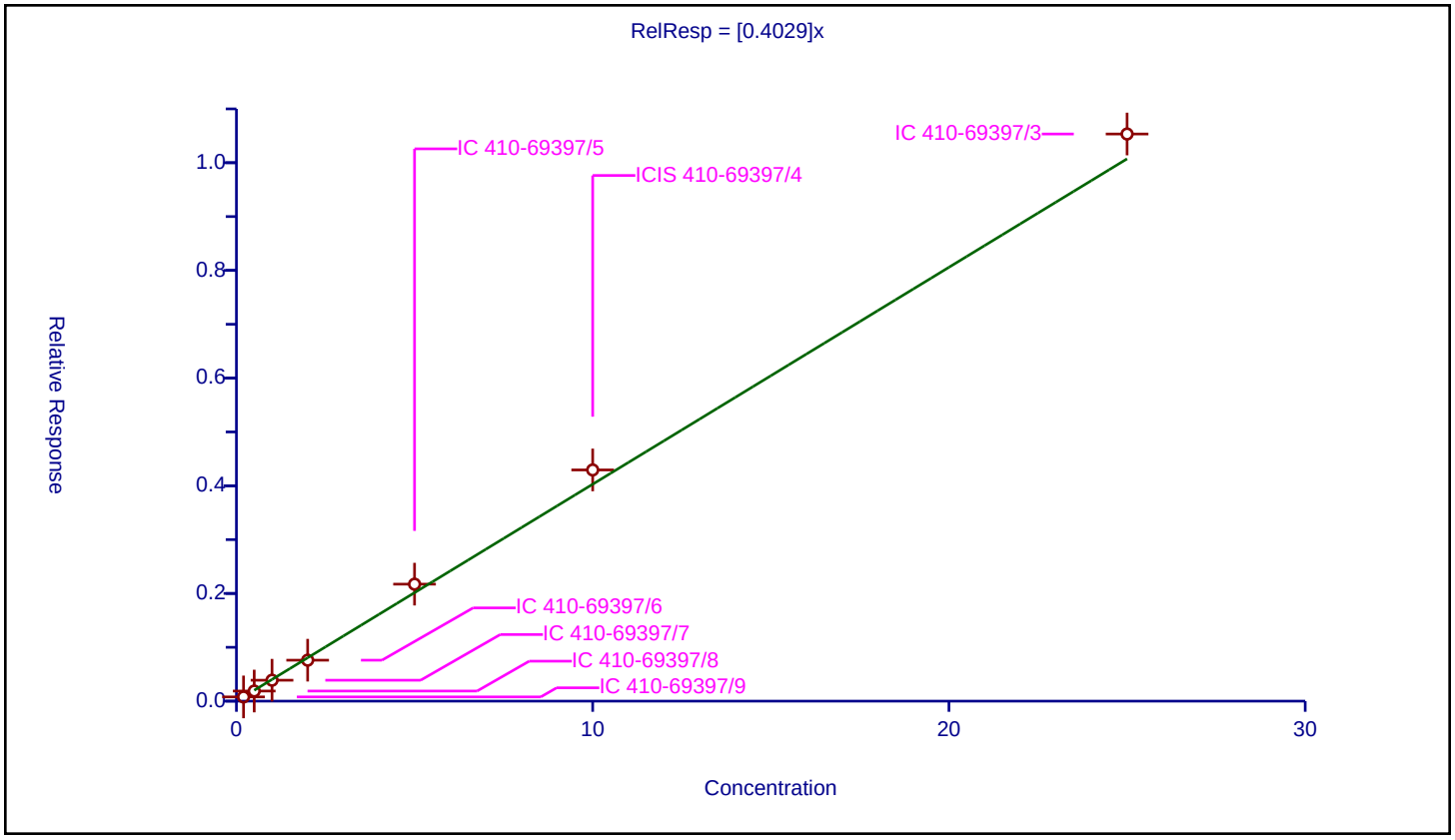
Curve Coefficients

Intercept:	0
Slope:	0.4029

Error Coefficients

Standard Error:	972000
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 410-69397/9	0.2	0.078205	10.0	1980944.0	0.391026	Y
2	IC 410-69397/8	0.5	0.187511	10.0	1995085.0	0.375022	Y
3	IC 410-69397/7	1.0	0.38853	10.0	1986644.0	0.38853	Y
4	IC 410-69397/6	2.0	0.76073	10.0	1976128.0	0.380365	Y
5	IC 410-69397/5	5.0	2.17281	10.0	1978687.0	0.434562	Y
6	ICIS 410-69397/4	10.0	4.294274	10.0	2065893.0	0.429427	Y
7	IC 410-69397/3	25.0	10.533604	10.0	2051897.0	0.421344	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

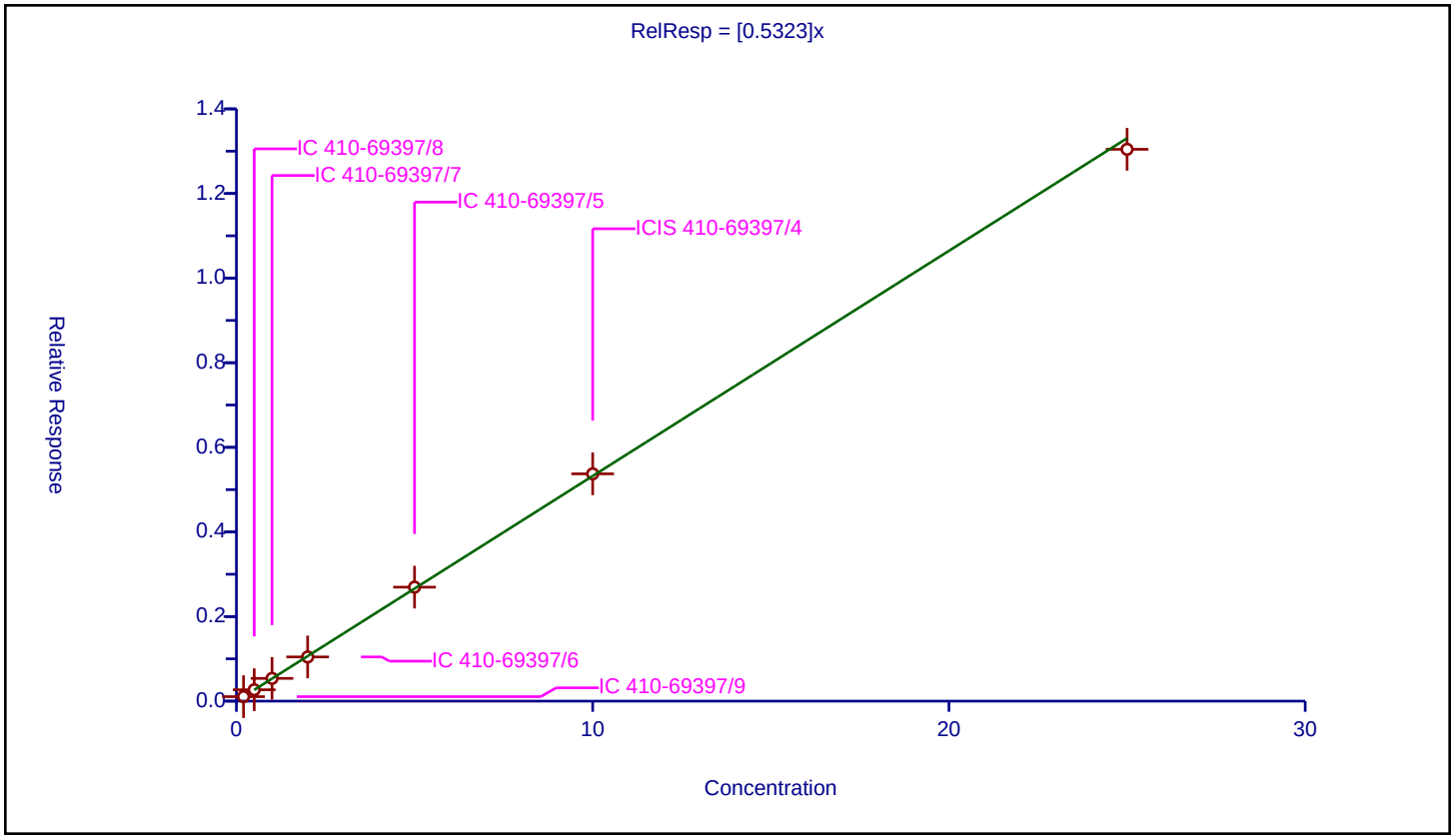
Curve Coefficients

Intercept:	0
Slope:	0.5323

Error Coefficients

Standard Error:	1210000
Relative Standard Error:	1.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.105773	10.0	1980944.0	0.528864	Y
2	IC 410-69397/8	0.5	0.269347	10.0	1995085.0	0.538694	Y
3	IC 410-69397/7	1.0	0.537822	10.0	1986644.0	0.537822	Y
4	IC 410-69397/6	2.0	1.044689	10.0	1976128.0	0.522345	Y
5	IC 410-69397/5	5.0	2.694489	10.0	1978687.0	0.538898	Y
6	ICIS 410-69397/4	10.0	5.373487	10.0	2065893.0	0.537349	Y
7	IC 410-69397/3	25.0	13.044841	10.0	2051897.0	0.521794	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

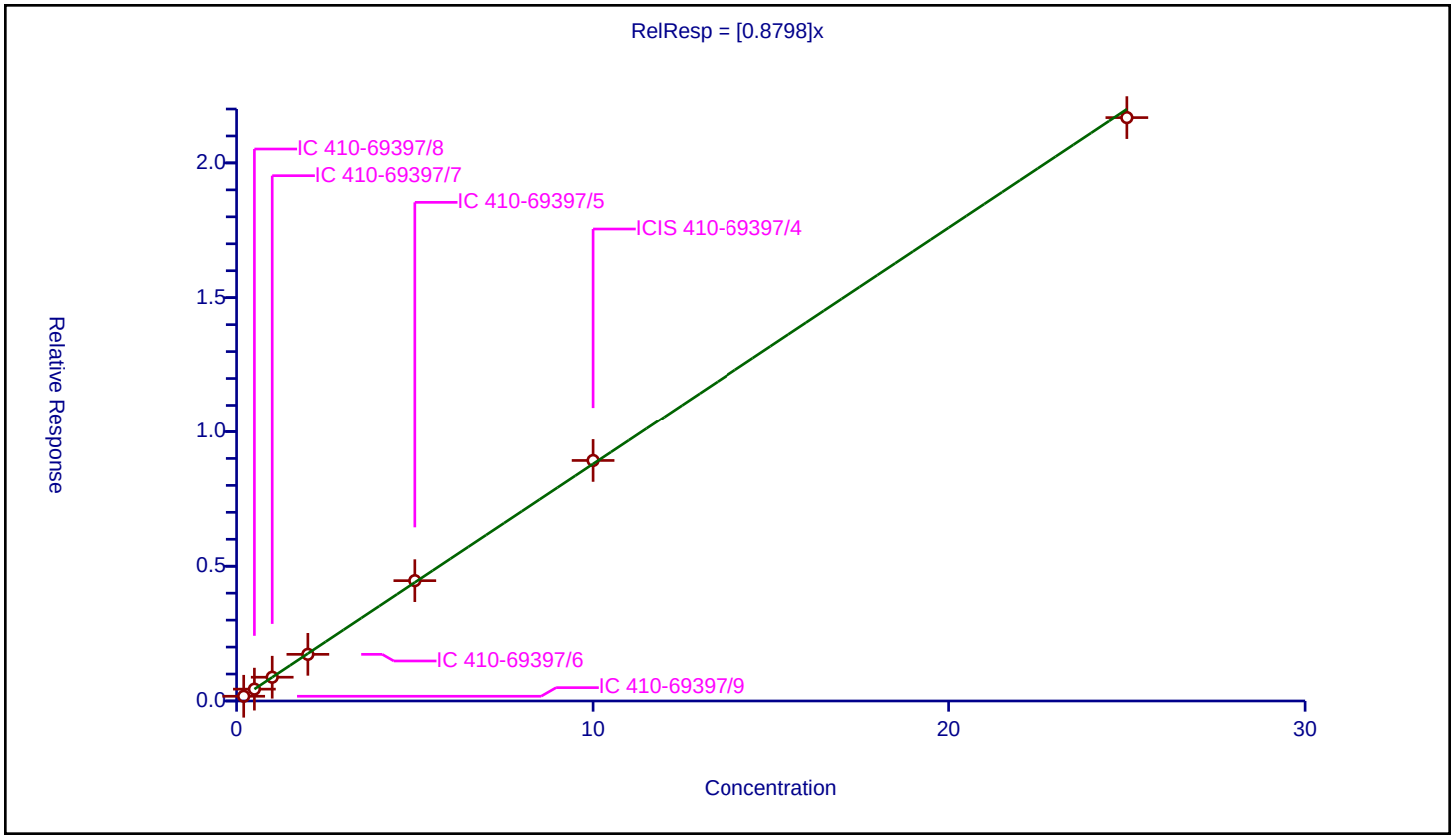
Curve Coefficients

Intercept:	0
Slope:	0.8798

Error Coefficients

Standard Error:	2010000
Relative Standard Error:	1.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.175598	10.0	1980944.0	0.87799	Y
2	IC 410-69397/8	0.5	0.440142	10.0	1995085.0	0.880283	Y
3	IC 410-69397/7	1.0	0.882221	10.0	1986644.0	0.882221	Y
4	IC 410-69397/6	2.0	1.730672	10.0	1976128.0	0.865336	Y
5	IC 410-69397/5	5.0	4.464076	10.0	1978687.0	0.892815	Y
6	ICIS 410-69397/4	10.0	8.925041	10.0	2065893.0	0.892504	Y
7	IC 410-69397/3	25.0	21.681658	10.0	2051897.0	0.867266	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

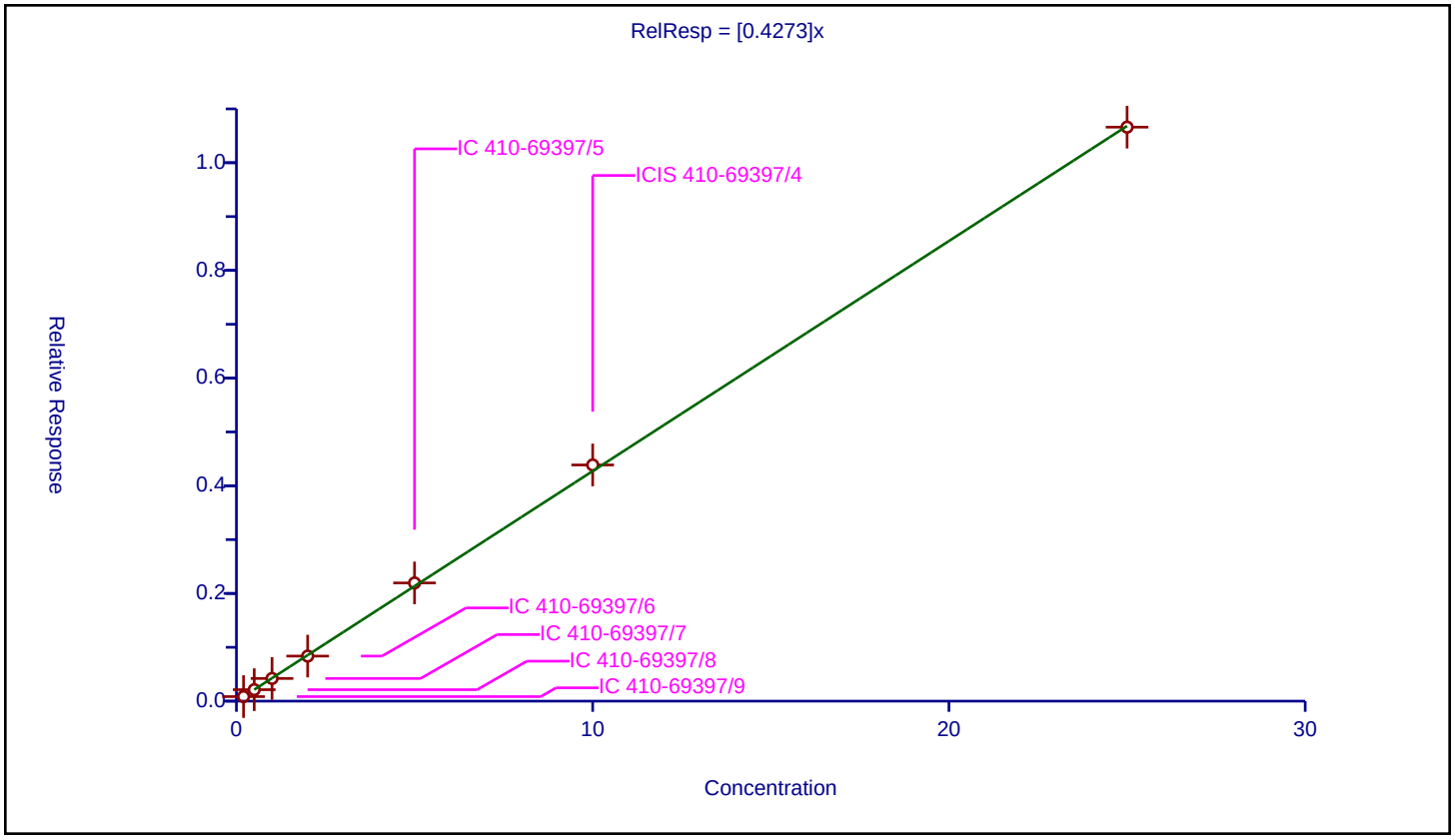
Curve Coefficients

Intercept:	0
Slope:	0.4273

Error Coefficients

Standard Error:	986000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.084328	10.0	1980944.0	0.421642	Y
2	IC 410-69397/8	0.5	0.212848	10.0	1995085.0	0.425696	Y
3	IC 410-69397/7	1.0	0.421308	10.0	1986644.0	0.421308	Y
4	IC 410-69397/6	2.0	0.83651	10.0	1976128.0	0.418255	Y
5	IC 410-69397/5	5.0	2.195284	10.0	1978687.0	0.439057	Y
6	ICIS 410-69397/4	10.0	4.386471	10.0	2065893.0	0.438647	Y
7	IC 410-69397/3	25.0	10.661188	10.0	2051897.0	0.426448	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

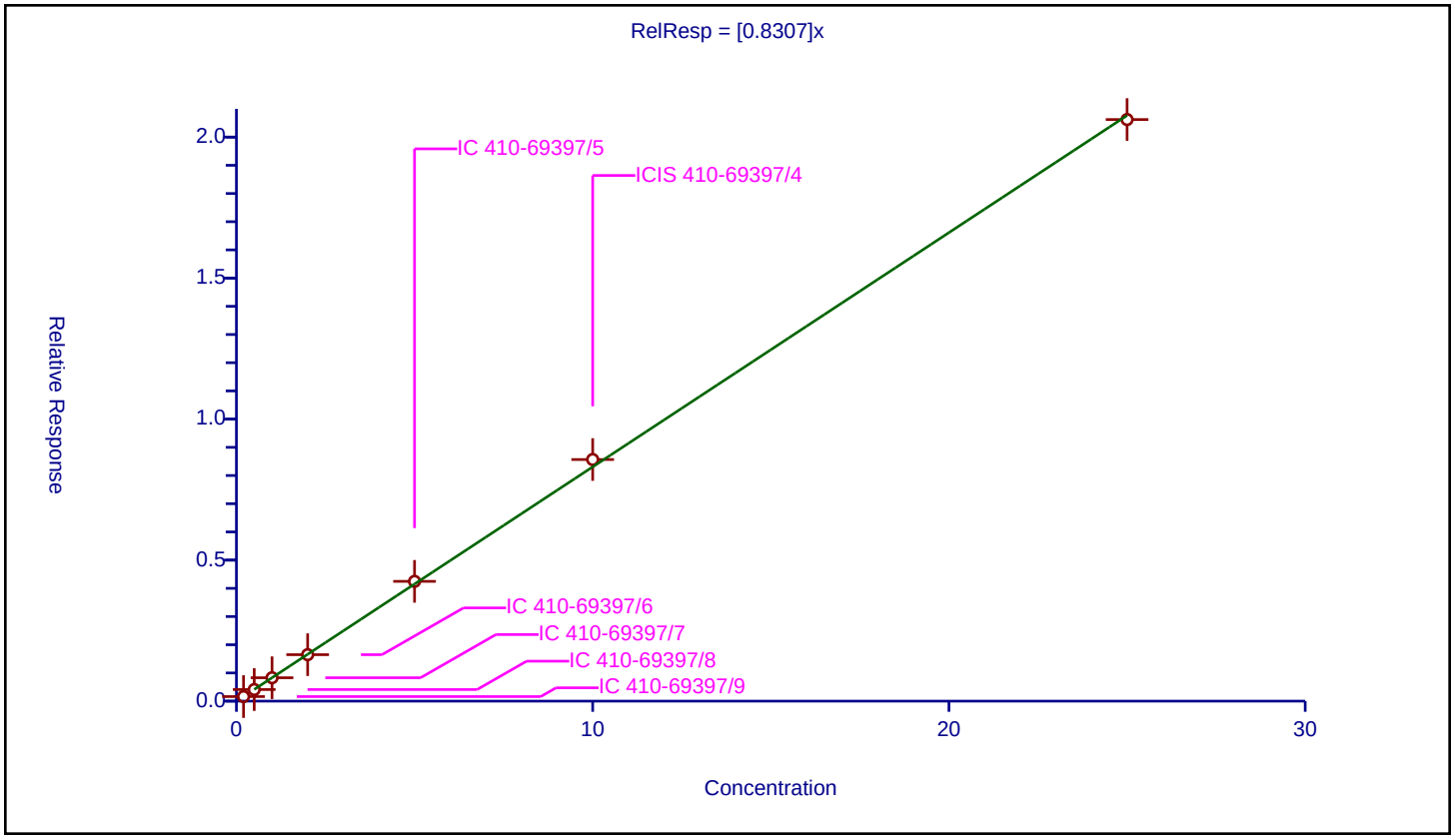
Curve Coefficients

Intercept:	0
Slope:	0.8307

Error Coefficients

Standard Error:	1910000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.161675	10.0	1980944.0	0.808377	Y
2	IC 410-69397/8	0.5	0.41092	10.0	1995085.0	0.82184	Y
3	IC 410-69397/7	1.0	0.82953	10.0	1986644.0	0.82953	Y
4	IC 410-69397/6	2.0	1.647469	10.0	1976128.0	0.823735	Y
5	IC 410-69397/5	5.0	4.247261	10.0	1978687.0	0.849452	Y
6	ICIS 410-69397/4	10.0	8.567438	10.0	2065893.0	0.856744	Y
7	IC 410-69397/3	25.0	20.622687	10.0	2051897.0	0.824907	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

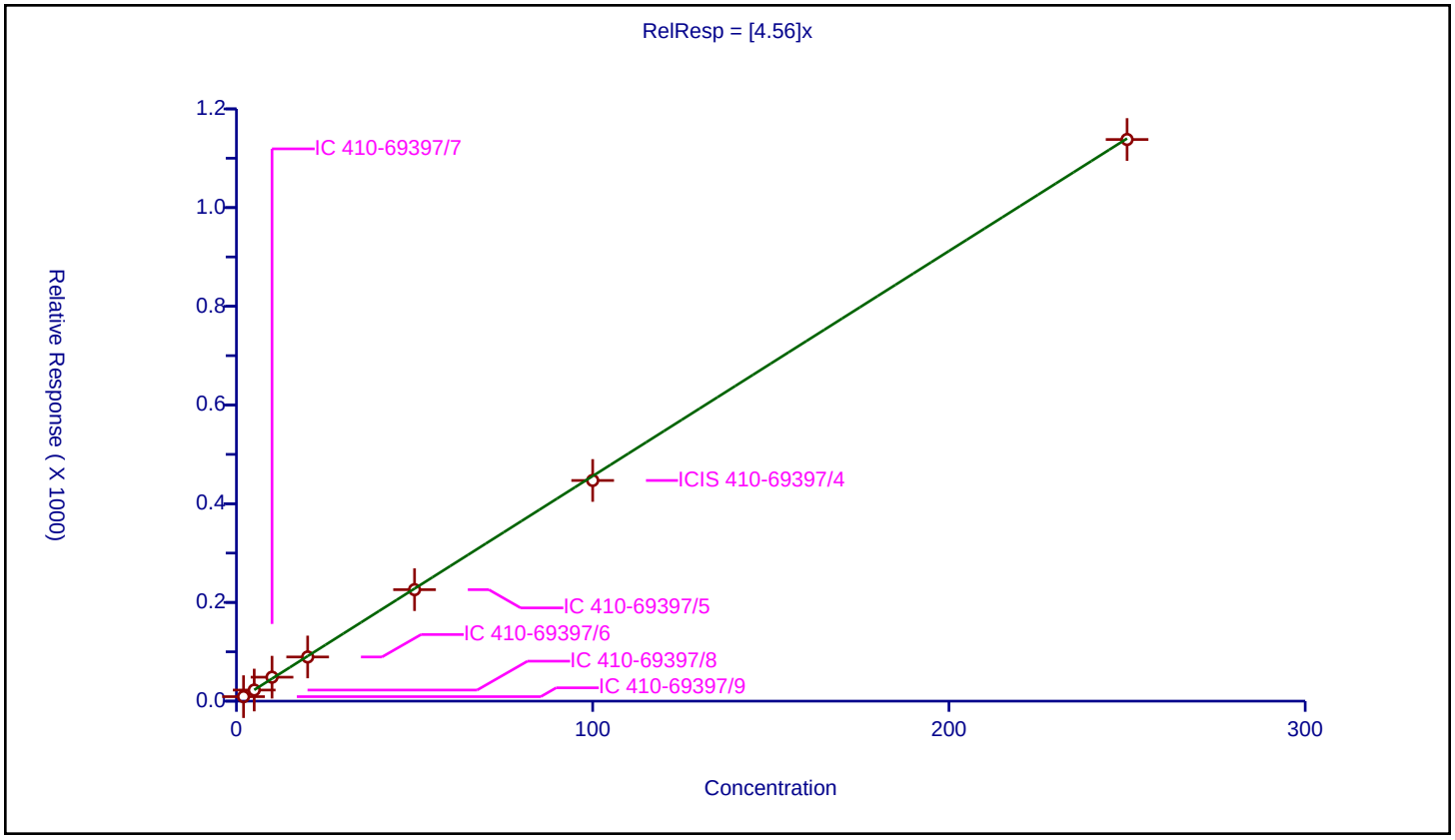
Curve Coefficients

Intercept:	0
Slope:	4.56

Error Coefficients

Standard Error:	1720000
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 410-69397/9	2.0	9.104733	50.0	157506.0	4.552366	Y
2	IC 410-69397/8	5.0	22.491752	50.0	156713.0	4.49835	Y
3	IC 410-69397/7	10.0	48.543436	50.0	155400.0	4.854344	Y
4	IC 410-69397/6	20.0	89.516527	50.0	164063.0	4.475826	Y
5	IC 410-69397/5	50.0	225.853239	50.0	167919.0	4.517065	Y
6	ICIS 410-69397/4	100.0	447.134256	50.0	174562.0	4.471343	Y
7	IC 410-69397/3	250.0	1138.000167	50.0	168044.0	4.552001	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

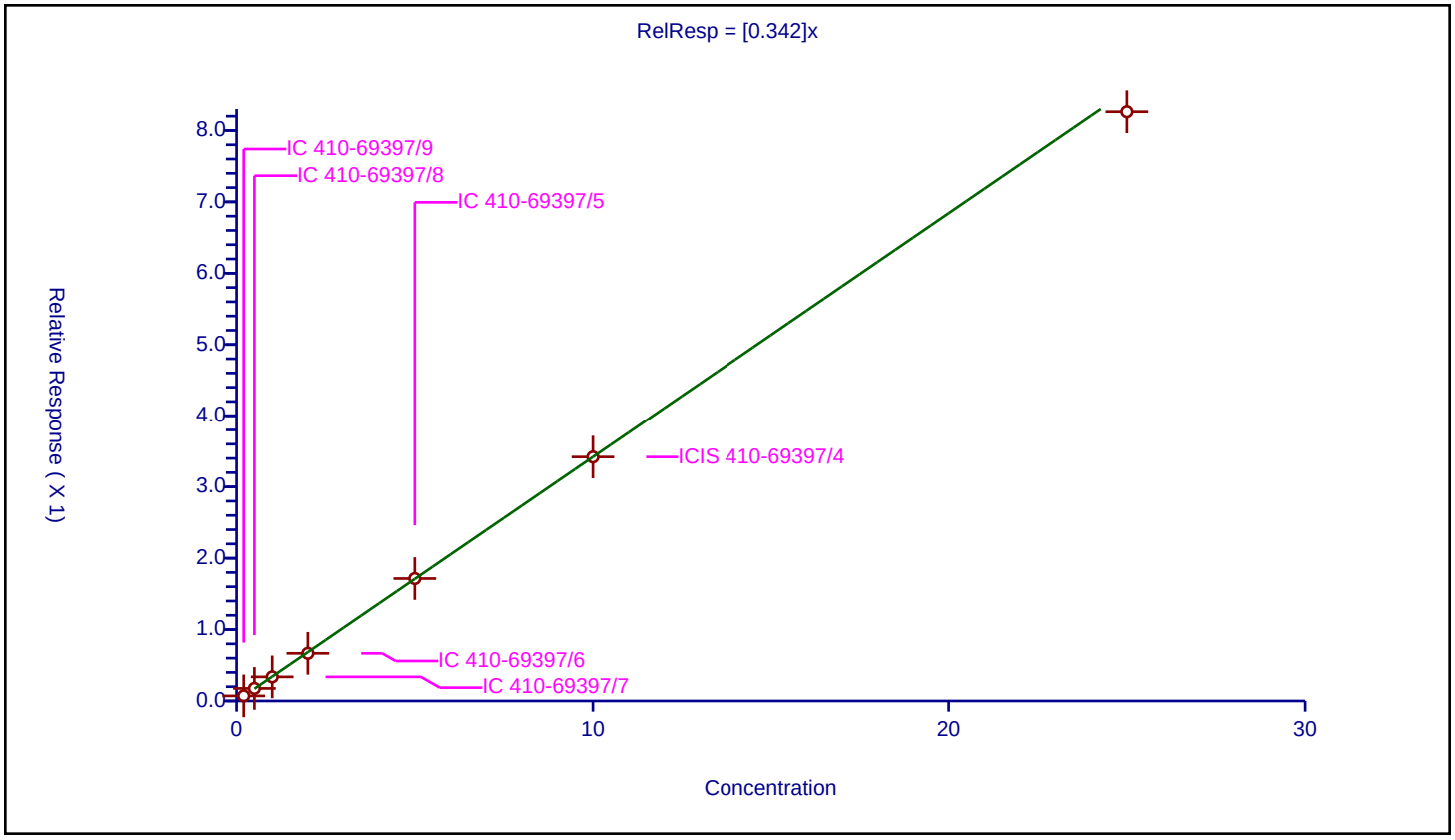
Curve Coefficients

Intercept:	0
Slope:	0.342

Error Coefficients

Standard Error:	765000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.071072	10.0	1980944.0	0.355361	Y
2	IC 410-69397/8	0.5	0.175987	10.0	1995085.0	0.351975	Y
3	IC 410-69397/7	1.0	0.337655	10.0	1986644.0	0.337655	Y
4	IC 410-69397/6	2.0	0.667598	10.0	1976128.0	0.333799	Y
5	IC 410-69397/5	5.0	1.7149	10.0	1978687.0	0.34298	Y
6	ICIS 410-69397/4	10.0	3.419645	10.0	2065893.0	0.341964	Y
7	IC 410-69397/3	25.0	8.262223	10.0	2051897.0	0.330489	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

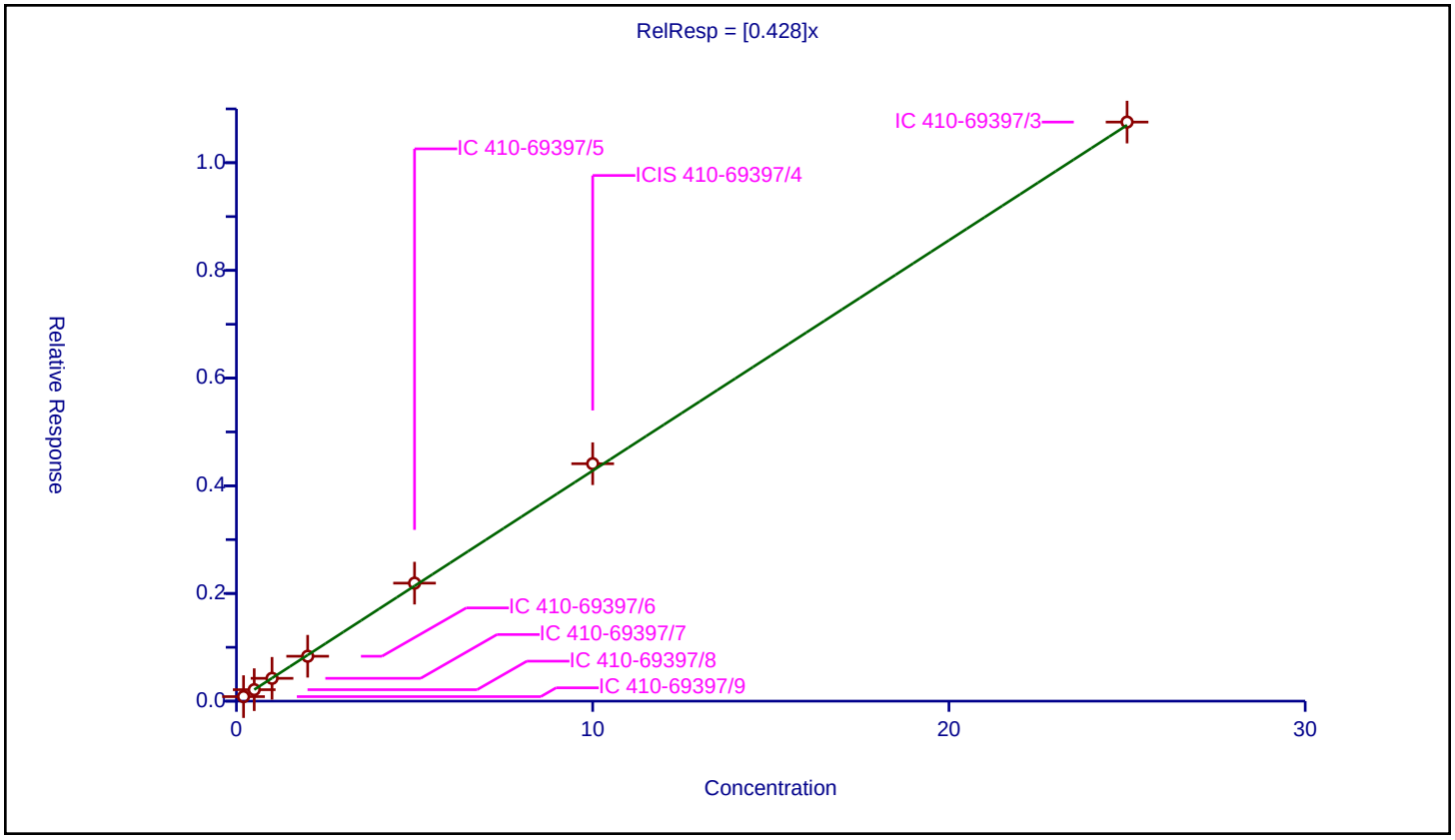
Curve Coefficients

Intercept:	0
Slope:	0.428

Error Coefficients

Standard Error:	994000
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.083915	10.0	1980944.0	0.419573	Y
2	IC 410-69397/8	0.5	0.212913	10.0	1995085.0	0.425826	Y
3	IC 410-69397/7	1.0	0.423856	10.0	1986644.0	0.423856	Y
4	IC 410-69397/6	2.0	0.833934	10.0	1976128.0	0.416967	Y
5	IC 410-69397/5	5.0	2.19163	10.0	1978687.0	0.438326	Y
6	ICIS 410-69397/4	10.0	4.410006	10.0	2065893.0	0.441001	Y
7	IC 410-69397/3	25.0	10.755111	10.0	2051897.0	0.430204	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

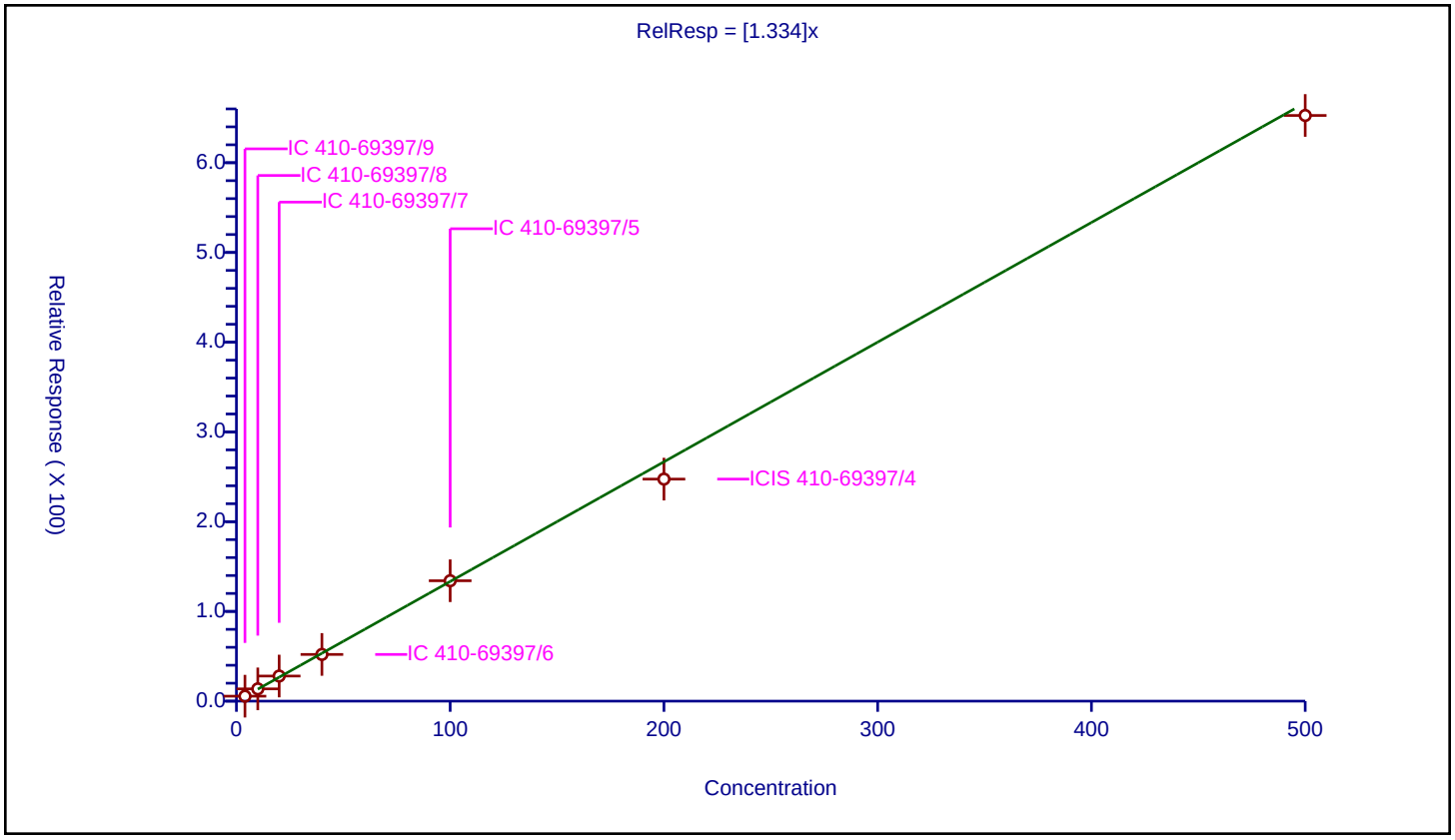
Curve Coefficients

Intercept:	0
Slope:	1.334

Error Coefficients

Standard Error:	983000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	4.0	5.534392	50.0	157506.0	1.383598	Y
2	IC 410-69397/8	10.0	13.671808	50.0	156713.0	1.367181	Y
3	IC 410-69397/7	20.0	27.980373	50.0	155400.0	1.399019	Y
4	IC 410-69397/6	40.0	52.037937	50.0	164063.0	1.300948	Y
5	IC 410-69397/5	100.0	134.159625	50.0	167919.0	1.341596	Y
6	ICIS 410-69397/4	200.0	247.428707	50.0	174562.0	1.237144	Y
7	IC 410-69397/3	500.0	652.679953	50.0	168044.0	1.30536	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

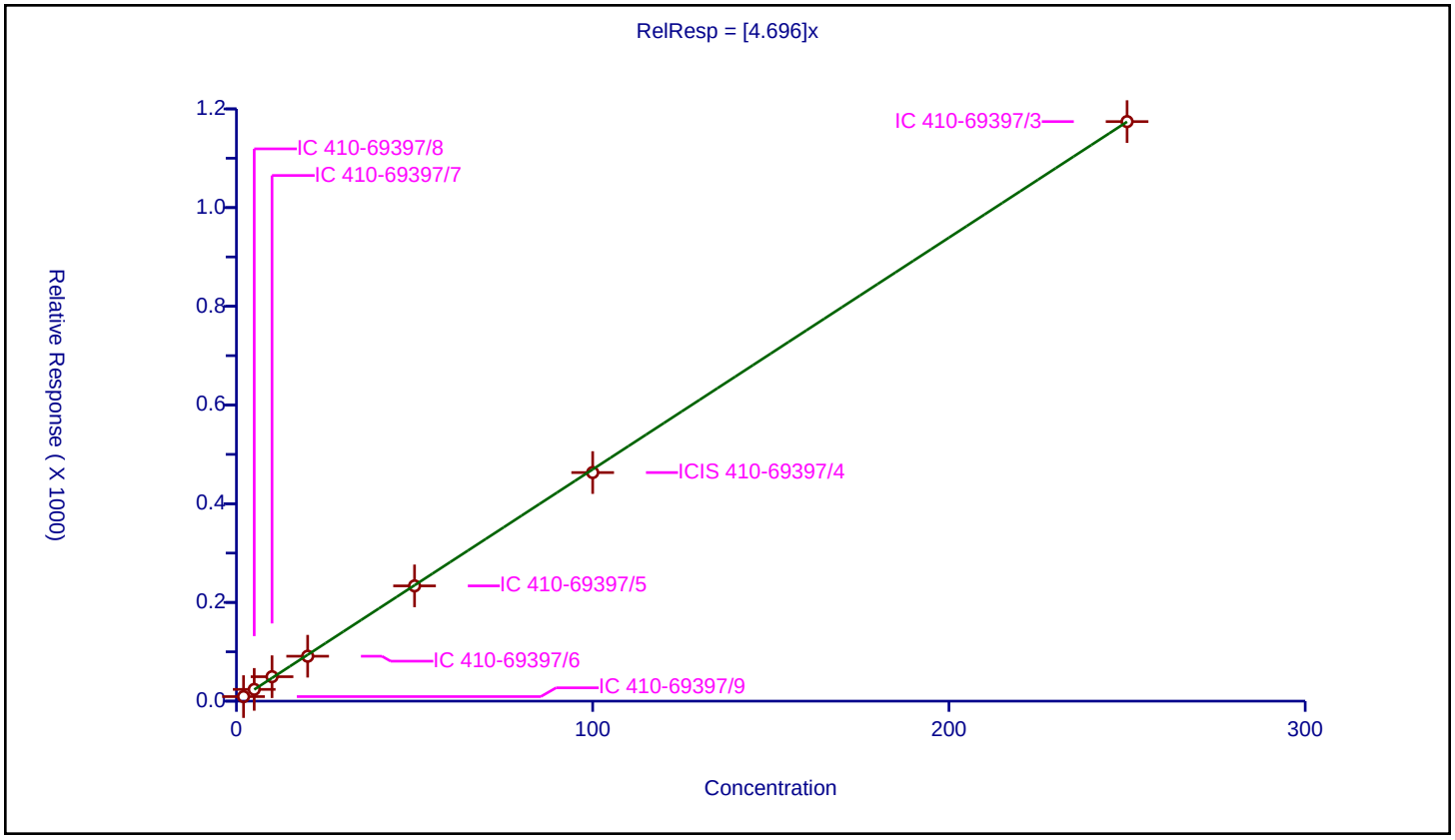
Curve Coefficients

Intercept:	0
Slope:	4.696

Error Coefficients

Standard Error:	1780000
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 410-69397/9	2.0	9.194253	50.0	157506.0	4.597126	Y
2	IC 410-69397/8	5.0	23.85252	50.0	156713.0	4.770504	Y
3	IC 410-69397/7	10.0	49.522523	50.0	155400.0	4.952252	Y
4	IC 410-69397/6	20.0	91.019608	50.0	164063.0	4.55098	Y
5	IC 410-69397/5	50.0	233.528963	50.0	167919.0	4.670579	Y
6	ICIS 410-69397/4	100.0	463.135734	50.0	174562.0	4.631357	Y
7	IC 410-69397/3	250.0	1174.265073	50.0	168044.0	4.69706	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

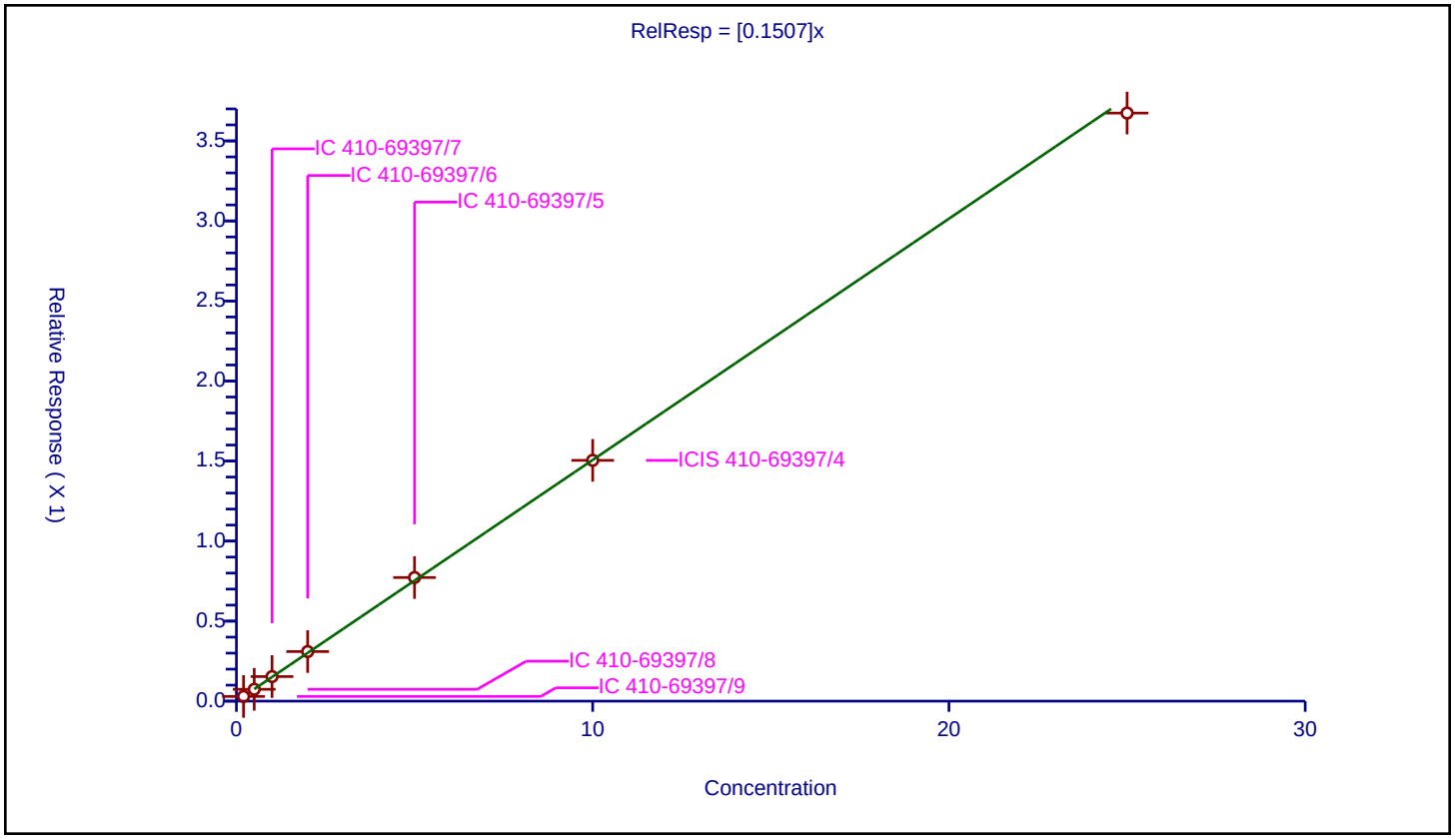
Curve Coefficients

Intercept:	0
Slope:	0.1507

Error Coefficients

Standard Error:	340000
Relative Standard Error:	2.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.029319	10.0	1980944.0	0.146597	Y
2	IC 410-69397/8	0.5	0.074042	10.0	1995085.0	0.148084	Y
3	IC 410-69397/7	1.0	0.153495	10.0	1986644.0	0.153495	Y
4	IC 410-69397/6	2.0	0.309686	10.0	1976128.0	0.154843	Y
5	IC 410-69397/5	5.0	0.772356	10.0	1978687.0	0.154471	Y
6	ICIS 410-69397/4	10.0	1.504357	10.0	2065893.0	0.150436	Y
7	IC 410-69397/3	25.0	3.673956	10.0	2051897.0	0.146958	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

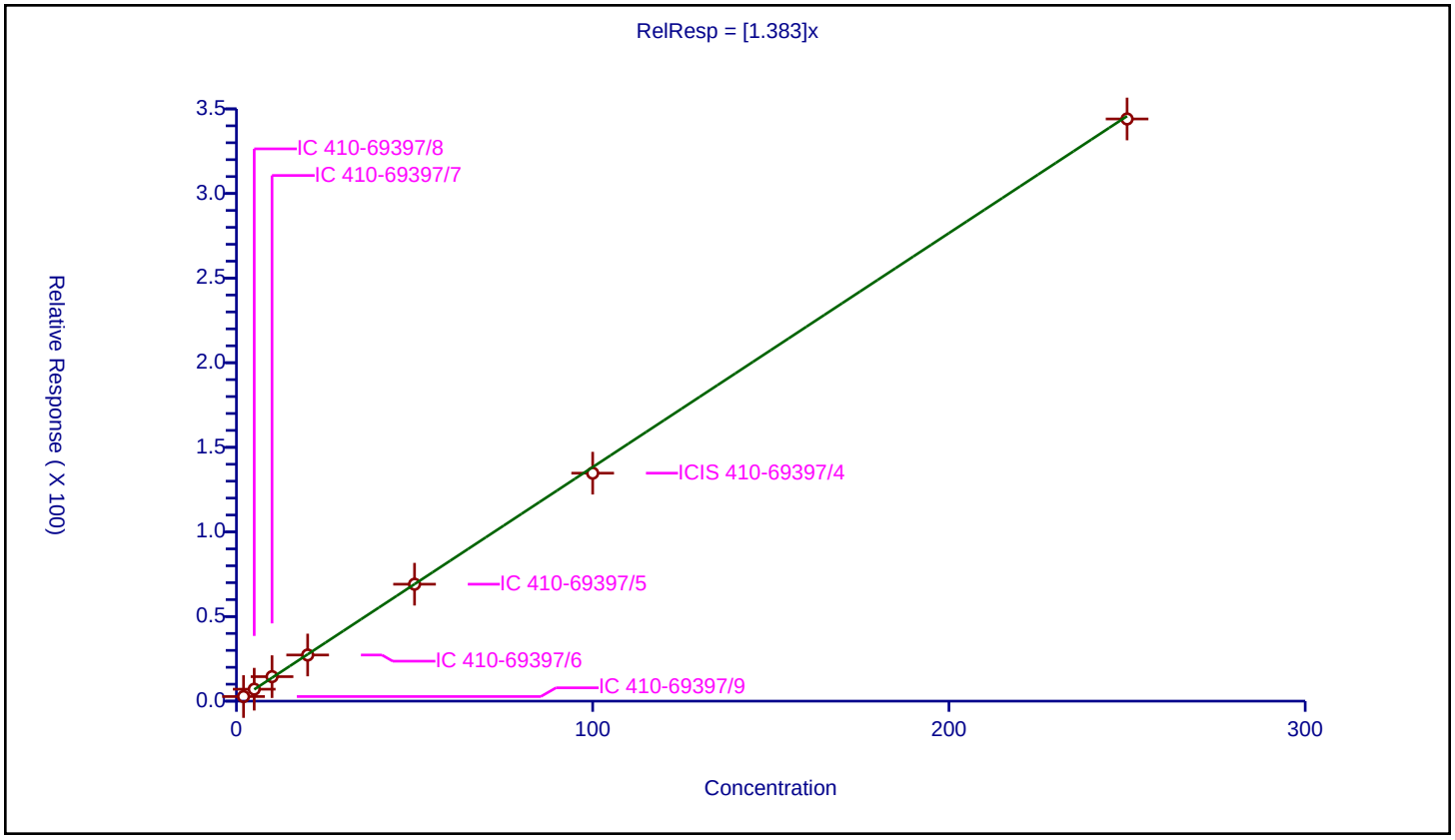
Curve Coefficients

Intercept:	0
Slope:	1.383

Error Coefficients

Standard Error:	520000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	2.0	2.708151	50.0	157506.0	1.354075	Y
2	IC 410-69397/8	5.0	7.05334	50.0	156713.0	1.410668	Y
3	IC 410-69397/7	10.0	14.472973	50.0	155400.0	1.447297	Y
4	IC 410-69397/6	20.0	27.261784	50.0	164063.0	1.363089	Y
5	IC 410-69397/5	50.0	69.106534	50.0	167919.0	1.382131	Y
6	ICIS 410-69397/4	100.0	134.730067	50.0	174562.0	1.347301	Y
7	IC 410-69397/3	250.0	344.047987	50.0	168044.0	1.376192	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

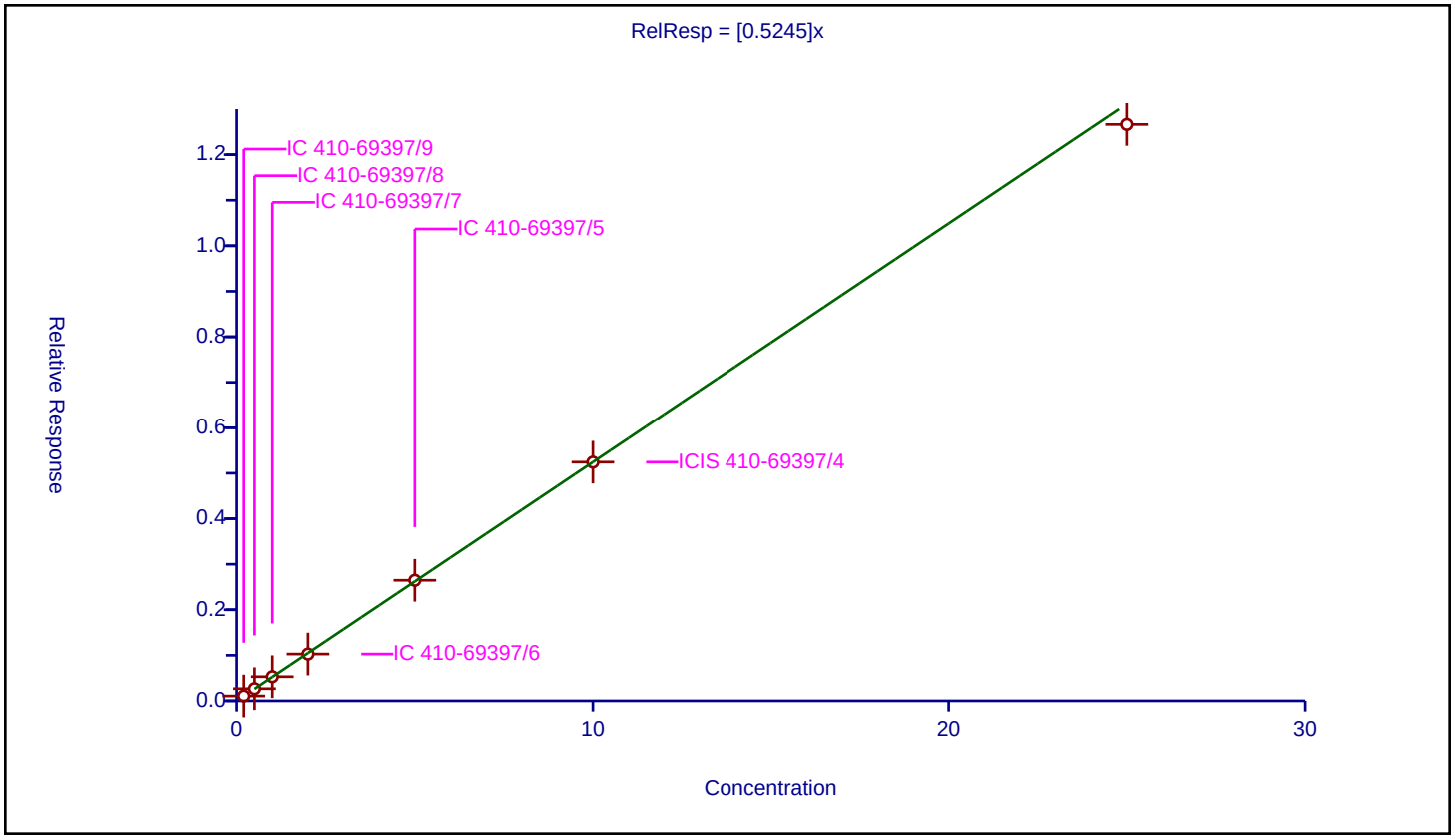
Curve Coefficients

Intercept:	0
Slope:	0.5245

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.106692	10.0	1980944.0	0.533458	Y
2	IC 410-69397/8	0.5	0.267061	10.0	1995085.0	0.534123	Y
3	IC 410-69397/7	1.0	0.529873	10.0	1986644.0	0.529873	Y
4	IC 410-69397/6	2.0	1.027398	10.0	1976128.0	0.513699	Y
5	IC 410-69397/5	5.0	2.647544	10.0	1978687.0	0.529509	Y
6	ICIS 410-69397/4	10.0	5.243519	10.0	2065893.0	0.524352	Y
7	IC 410-69397/3	25.0	12.664666	10.0	2051897.0	0.506587	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

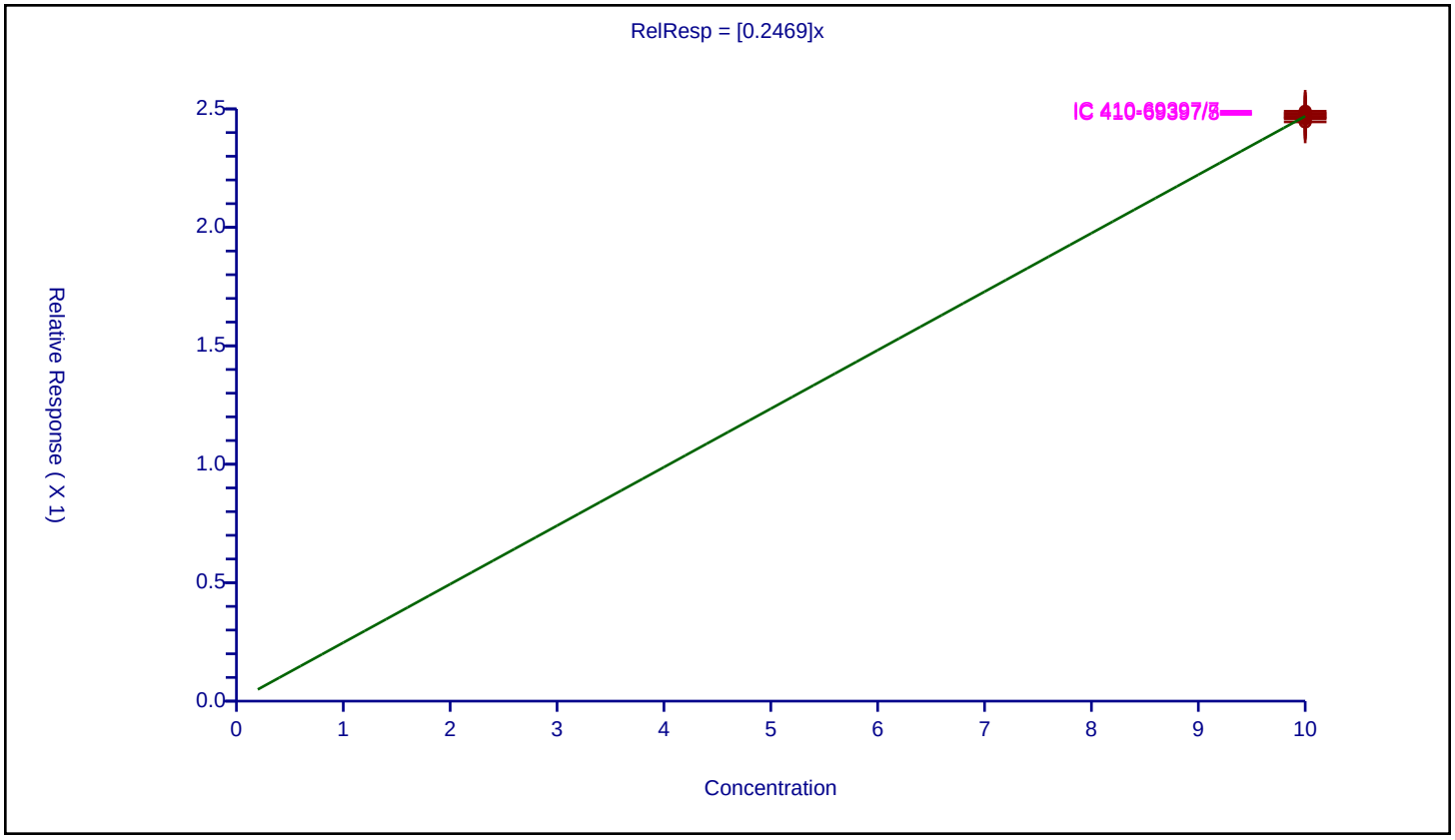
Curve Coefficients

Intercept:	0
Slope:	0.2469

Error Coefficients

Standard Error:	535000
Relative Standard Error:	0.6
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0.000000000000000111

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/3	10.0	2.445152	10.0	2051897.0	0.244515	Y
2	ICIS 410-69397/4	10.0	2.458312	10.0	2065893.0	0.245831	Y
3	IC 410-69397/5	10.0	2.481423	10.0	1978687.0	0.248142	Y
4	IC 410-69397/6	10.0	2.468499	10.0	1976128.0	0.24685	Y
5	IC 410-69397/7	10.0	2.489958	10.0	1986644.0	0.248996	Y
6	IC 410-69397/8	10.0	2.476646	10.0	1995085.0	0.247665	Y
7	IC 410-69397/9	10.0	2.463921	10.0	1980944.0	0.246392	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

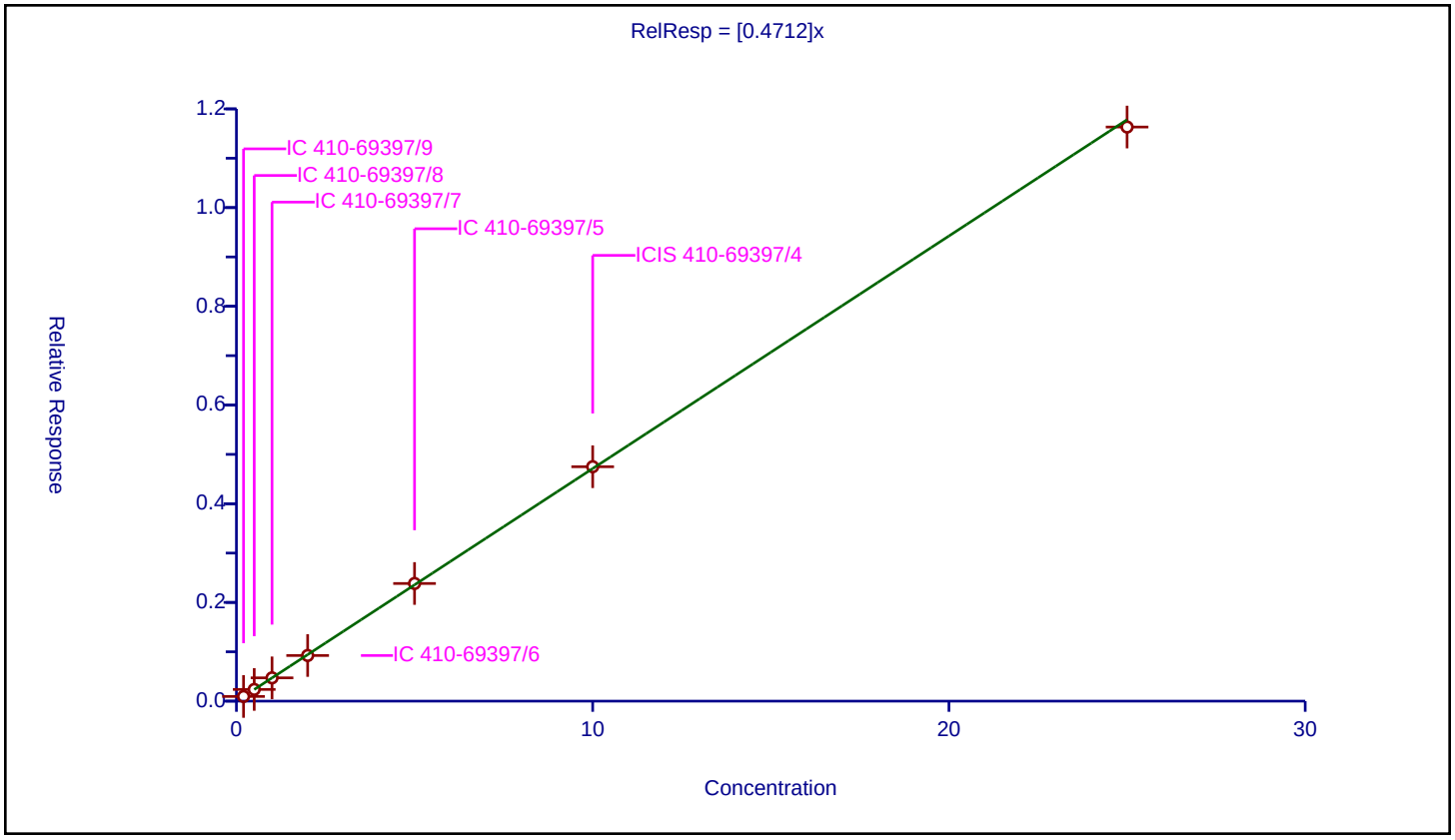
Curve Coefficients

Intercept:	0
Slope:	0.4712

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	1.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.094556	10.0	1980944.0	0.47278	Y
2	IC 410-69397/8	0.5	0.237213	10.0	1995085.0	0.474426	Y
3	IC 410-69397/7	1.0	0.471992	10.0	1986644.0	0.471992	Y
4	IC 410-69397/6	2.0	0.924814	10.0	1976128.0	0.462407	Y
5	IC 410-69397/5	5.0	2.38398	10.0	1978687.0	0.476796	Y
6	ICIS 410-69397/4	10.0	4.749931	10.0	2065893.0	0.474993	Y
7	IC 410-69397/3	25.0	11.632757	10.0	2051897.0	0.46531	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

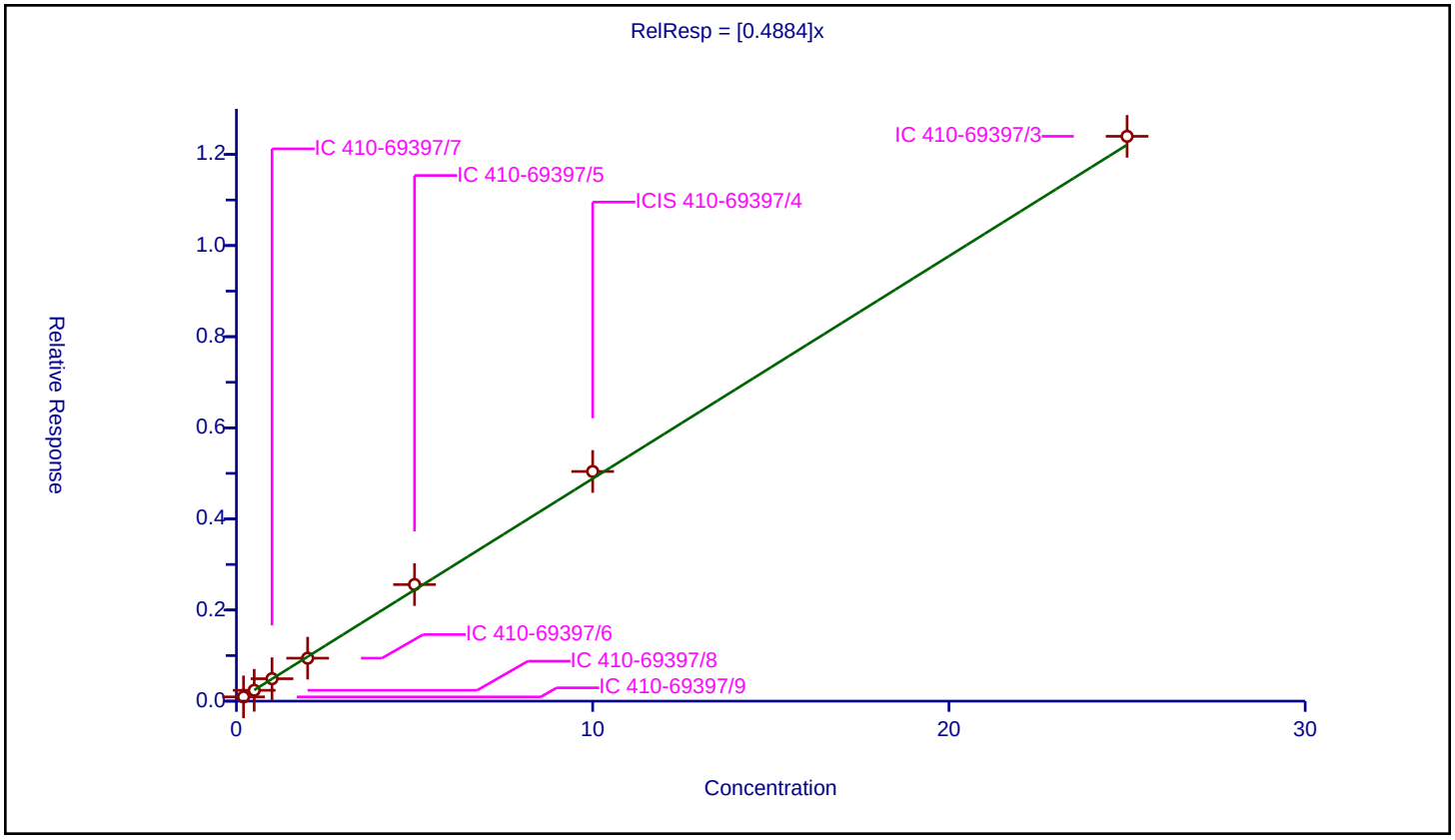
Curve Coefficients

Intercept:	0
Slope:	0.4884

Error Coefficients

Standard Error:	1140000
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 410-69397/9	0.2	0.093193	10.0	1980944.0	0.465965	Y
2	IC 410-69397/8	0.5	0.238526	10.0	1995085.0	0.477052	Y
3	IC 410-69397/7	1.0	0.492267	10.0	1986644.0	0.492267	Y
4	IC 410-69397/6	2.0	0.943481	10.0	1976128.0	0.471741	Y
5	IC 410-69397/5	5.0	2.559475	10.0	1978687.0	0.511895	Y
6	ICIS 410-69397/4	10.0	5.041055	10.0	2065893.0	0.504105	Y
7	IC 410-69397/3	25.0	12.397845	10.0	2051897.0	0.495914	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

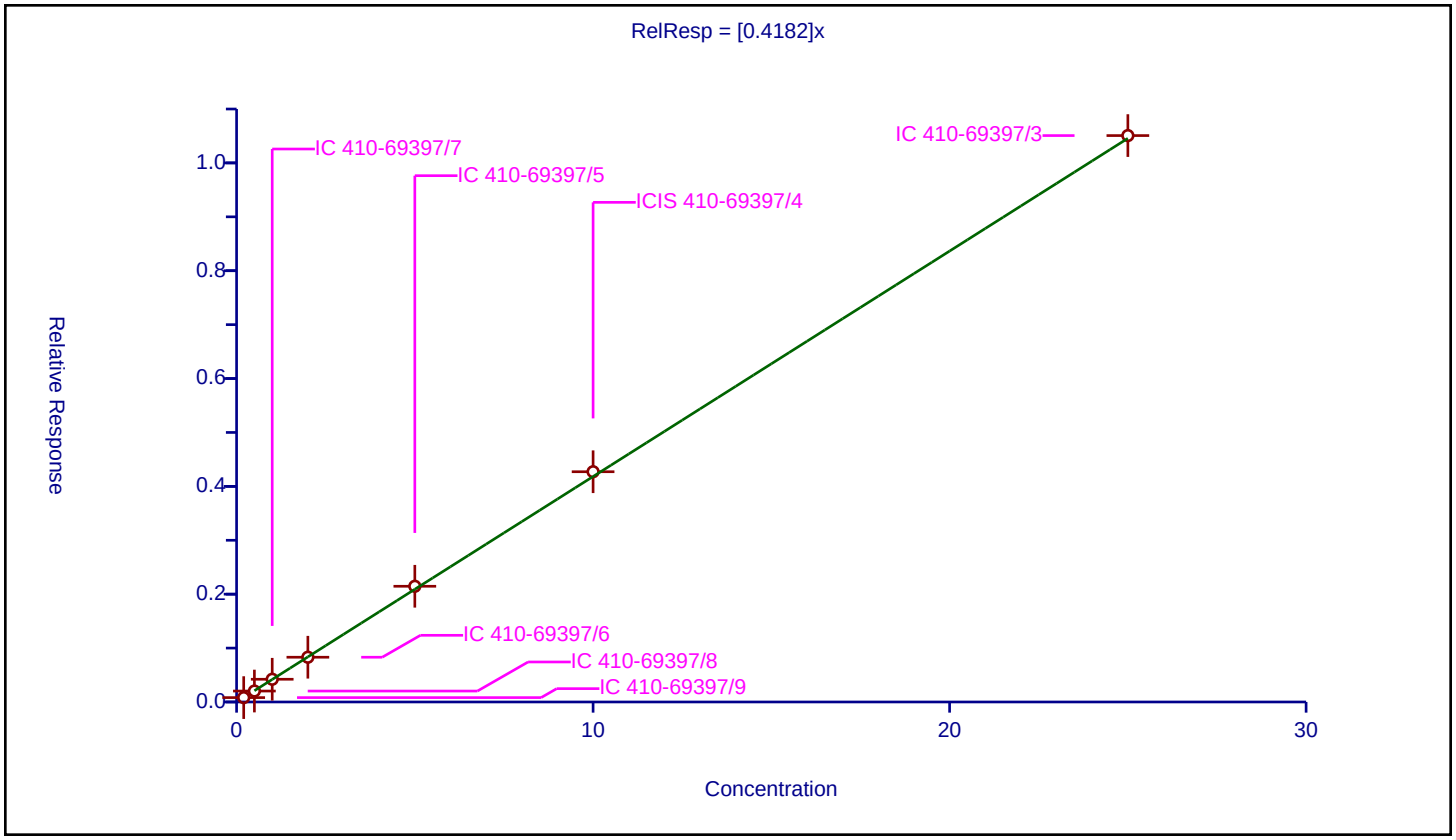
Curve Coefficients

Intercept:	0
Slope:	0.4182

Error Coefficients

Standard Error:	970000
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.081532	10.0	1980944.0	0.407659	Y
2	IC 410-69397/8	0.5	0.203179	10.0	1995085.0	0.406359	Y
3	IC 410-69397/7	1.0	0.421872	10.0	1986644.0	0.421872	Y
4	IC 410-69397/6	2.0	0.830133	10.0	1976128.0	0.415067	Y
5	IC 410-69397/5	5.0	2.146514	10.0	1978687.0	0.429303	Y
6	ICIS 410-69397/4	10.0	4.27146	10.0	2065893.0	0.427146	Y
7	IC 410-69397/3	25.0	10.507218	10.0	2051897.0	0.420289	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

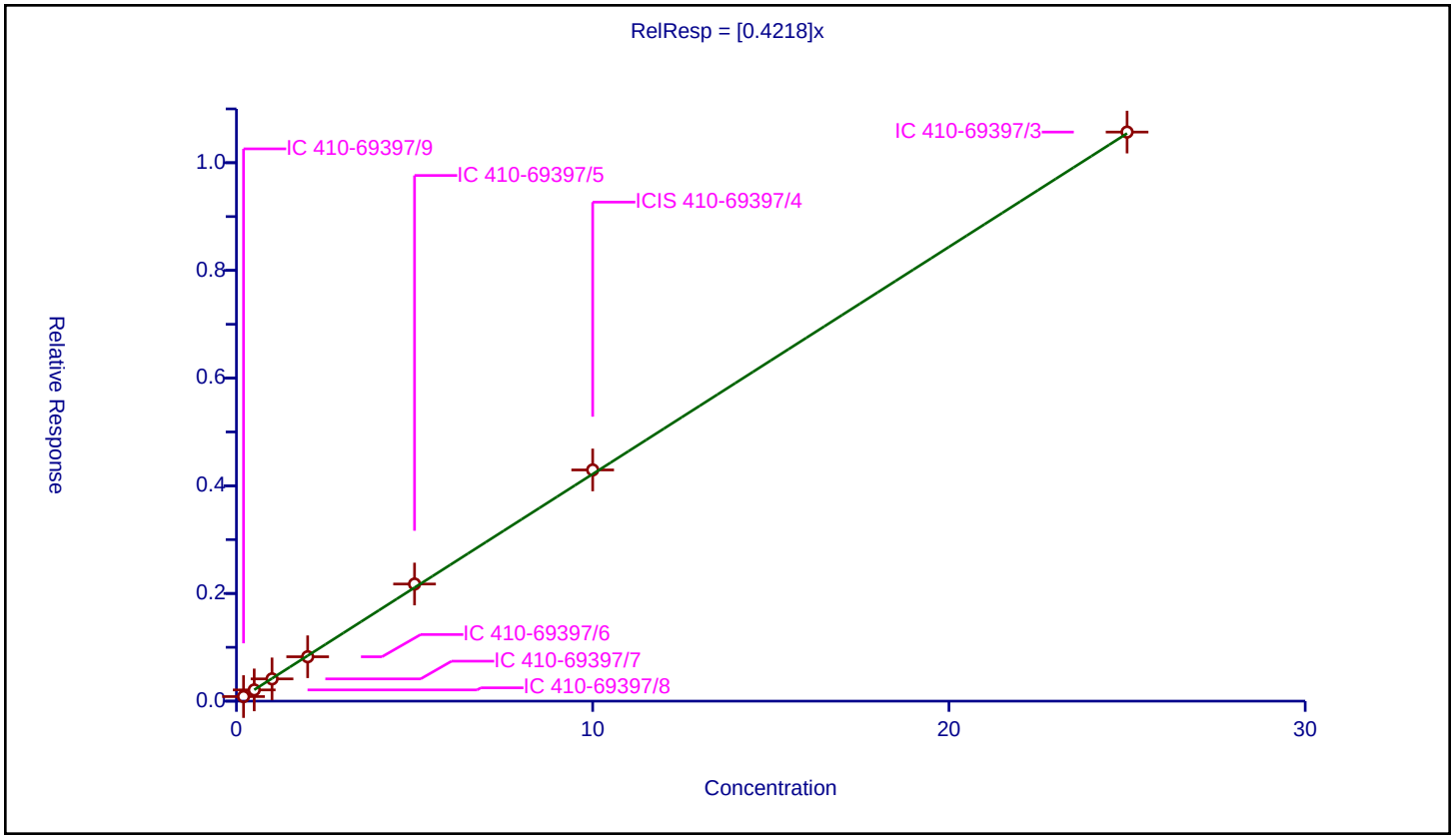
Curve Coefficients

Intercept:	0
Slope:	0.4218

Error Coefficients

Standard Error:	976000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.084641	10.0	1980944.0	0.423207	Y
2	IC 410-69397/8	0.5	0.208317	10.0	1995085.0	0.416634	Y
3	IC 410-69397/7	1.0	0.413255	10.0	1986644.0	0.413255	Y
4	IC 410-69397/6	2.0	0.824435	10.0	1976128.0	0.412218	Y
5	IC 410-69397/5	5.0	2.175256	10.0	1978687.0	0.435051	Y
6	ICIS 410-69397/4	10.0	4.294322	10.0	2065893.0	0.429432	Y
7	IC 410-69397/3	25.0	10.569848	10.0	2051897.0	0.422794	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

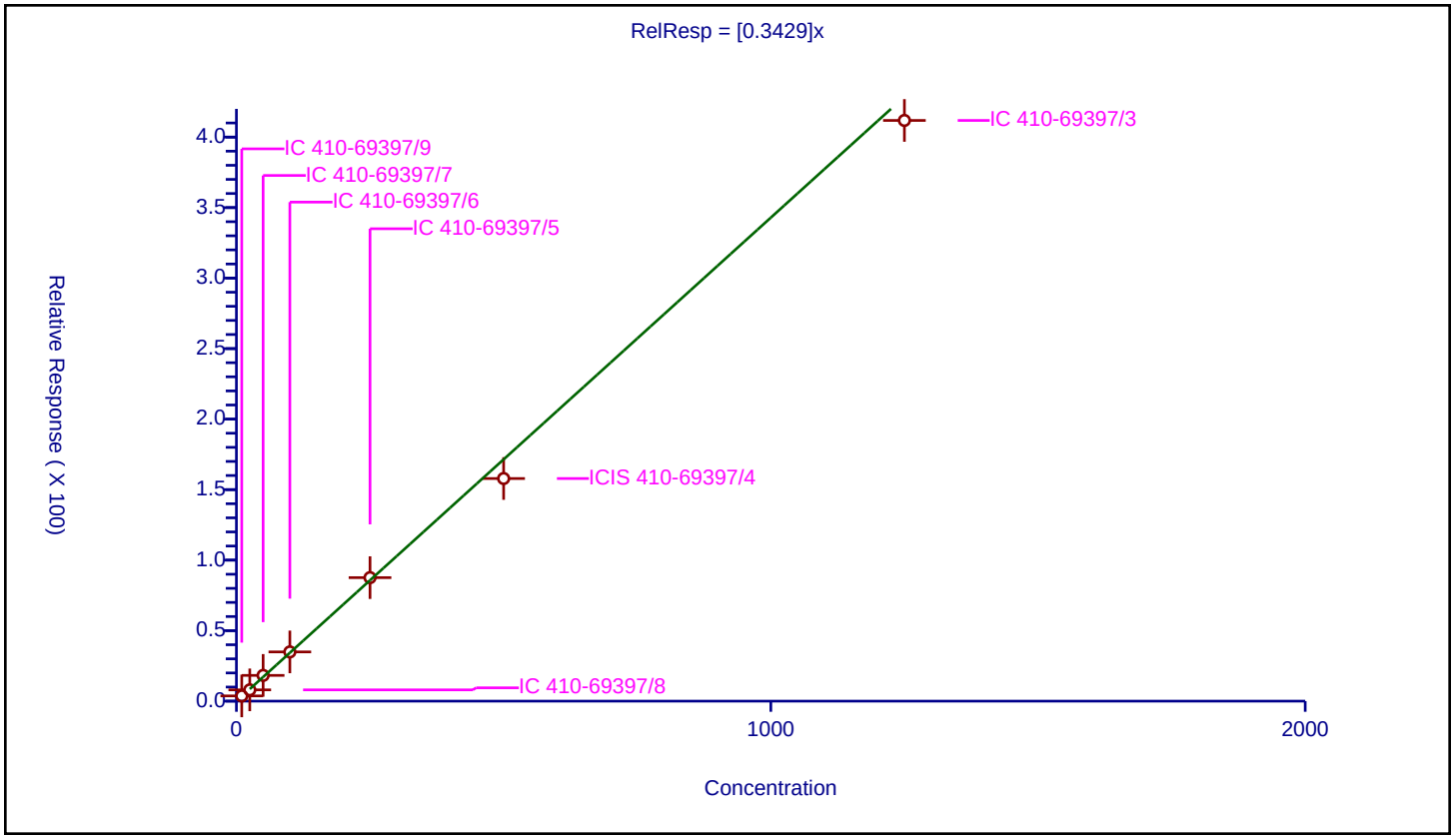
Curve Coefficients

Intercept:	0
Slope:	0.3429

Error Coefficients

Standard Error:	622000
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 410-69397/9	10.0	3.703986	50.0	157506.0	0.370399	Y
2	IC 410-69397/8	25.0	8.000613	50.0	156713.0	0.320025	Y
3	IC 410-69397/7	50.0	18.259653	50.0	155400.0	0.365193	Y
4	IC 410-69397/6	100.0	34.907322	50.0	164063.0	0.349073	Y
5	IC 410-69397/5	250.0	87.583895	50.0	167919.0	0.350336	Y
6	ICIS 410-69397/4	500.0	157.866546	50.0	174562.0	0.315733	Y
7	IC 410-69397/3	1250.0	411.794232	50.0	168044.0	0.329435	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

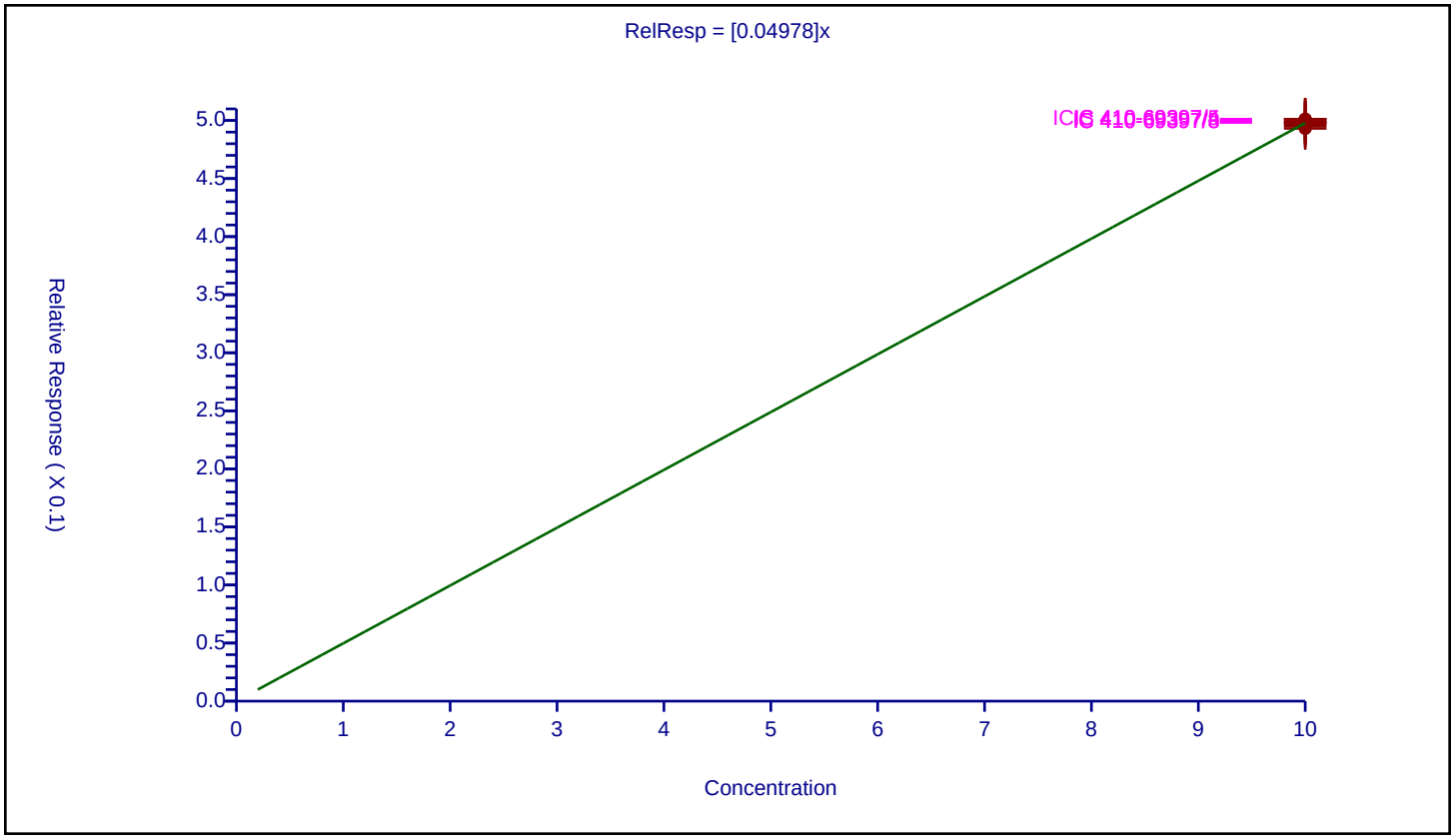
Curve Coefficients

Intercept:	0
Slope:	0.04978

Error Coefficients

Standard Error:	108000
Relative Standard Error:	0.6
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/3	10.0	0.498587	10.0	2051897.0	0.049859	Y
2	ICIS 410-69397/4	10.0	0.50095	10.0	2065893.0	0.050095	Y
3	IC 410-69397/5	10.0	0.50111	10.0	1978687.0	0.050111	Y
4	IC 410-69397/6	10.0	0.497108	10.0	1976128.0	0.049711	Y
5	IC 410-69397/7	10.0	0.493204	10.0	1986644.0	0.04932	Y
6	IC 410-69397/8	10.0	0.49845	10.0	1995085.0	0.049845	Y
7	IC 410-69397/9	10.0	0.495314	10.0	1980944.0	0.049531	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

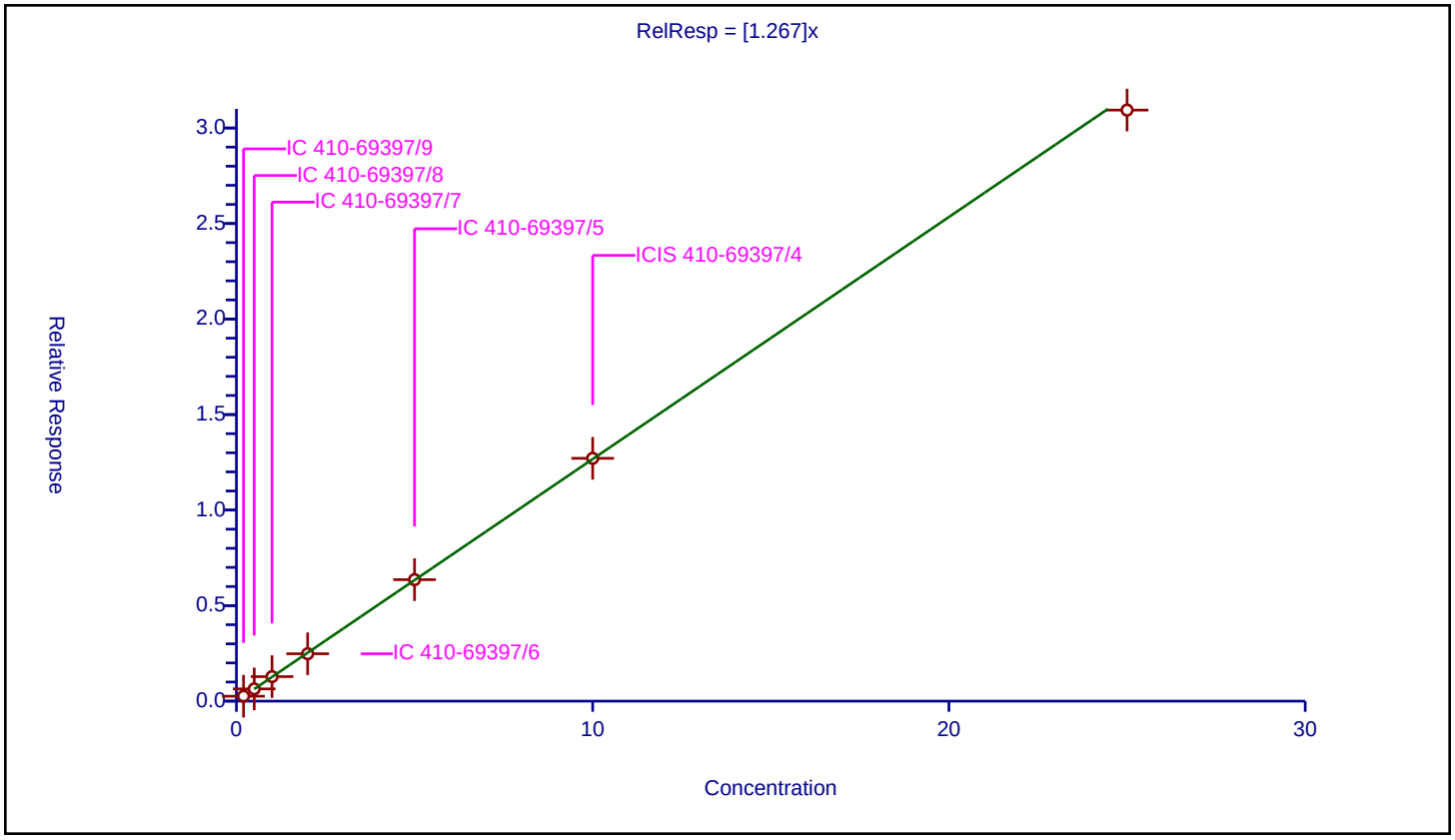
Curve Coefficients

Intercept:	0
Slope:	1.267

Error Coefficients

Standard Error:	2860000
Relative Standard Error:	1.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.256721	10.0	1980944.0	1.283605	Y
2	IC 410-69397/8	0.5	0.640745	10.0	1995085.0	1.281489	Y
3	IC 410-69397/7	1.0	1.283713	10.0	1986644.0	1.283713	Y
4	IC 410-69397/6	2.0	2.480406	10.0	1976128.0	1.240203	Y
5	IC 410-69397/5	5.0	6.358985	10.0	1978687.0	1.271797	Y
6	ICIS 410-69397/4	10.0	12.70986	10.0	2065893.0	1.270986	Y
7	IC 410-69397/3	25.0	30.937708	10.0	2051897.0	1.237508	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

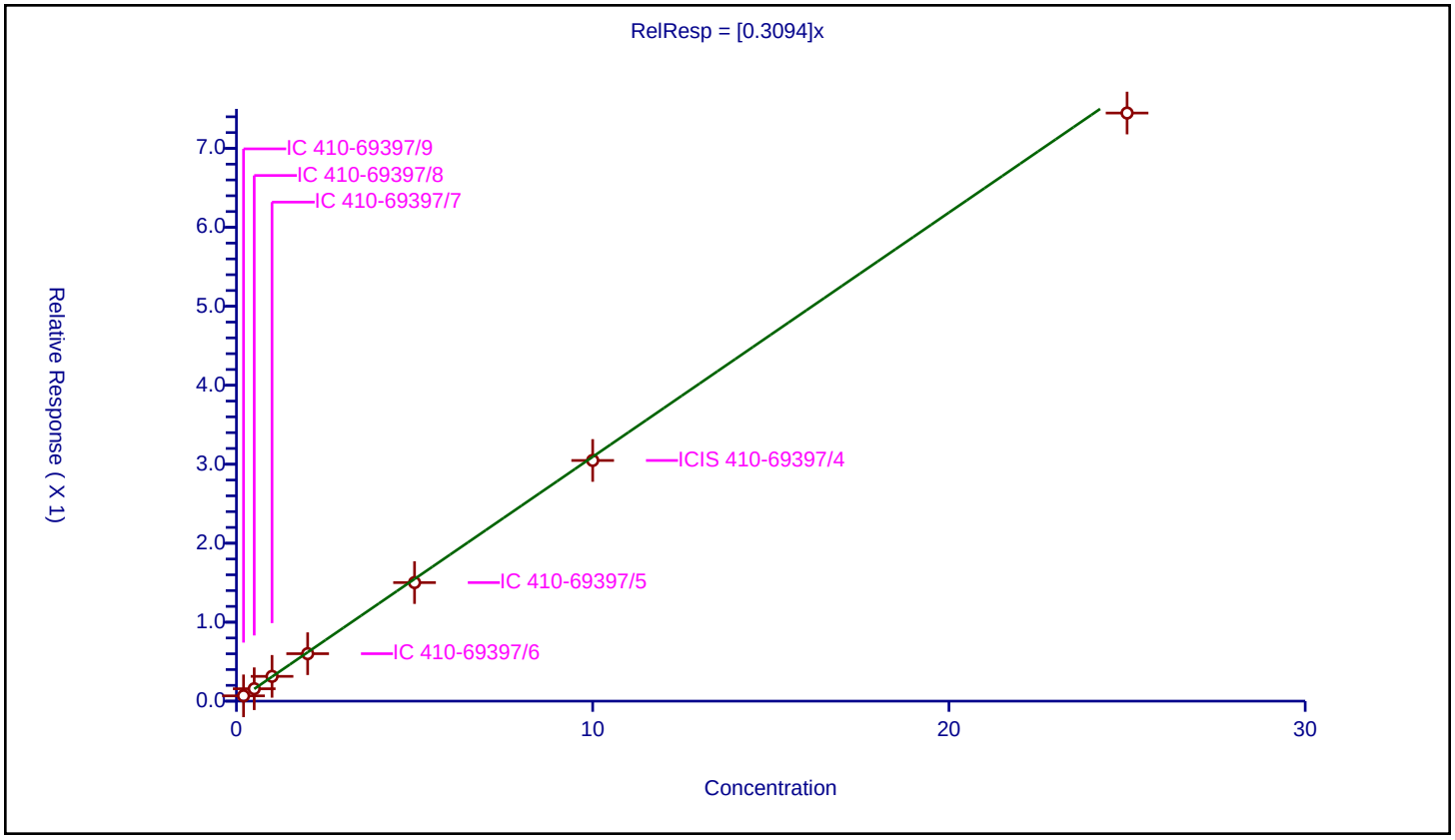
Curve Coefficients

Intercept:	0
Slope:	0.3094

Error Coefficients

Standard Error:	688000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.066822	10.0	1980944.0	0.334108	Y
2	IC 410-69397/8	0.5	0.157061	10.0	1995085.0	0.314122	Y
3	IC 410-69397/7	1.0	0.313866	10.0	1986644.0	0.313866	Y
4	IC 410-69397/6	2.0	0.600867	10.0	1976128.0	0.300433	Y
5	IC 410-69397/5	5.0	1.501369	10.0	1978687.0	0.300274	Y
6	ICIS 410-69397/4	10.0	3.047912	10.0	2065893.0	0.304791	Y
7	IC 410-69397/3	25.0	7.447723	10.0	2051897.0	0.297909	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

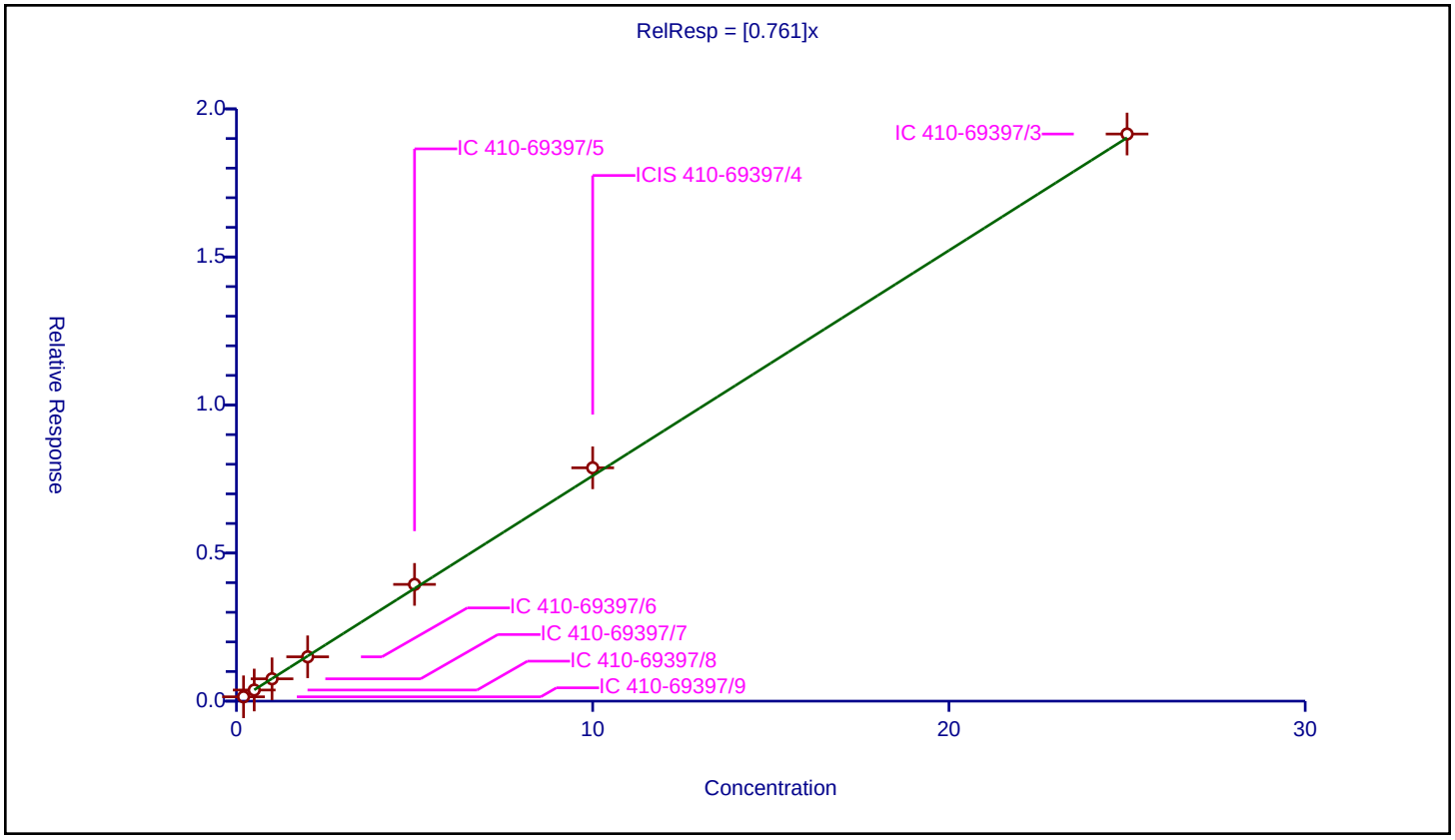
Curve Coefficients

Intercept:	0
Slope:	0.761

Error Coefficients

Standard Error:	1770000
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 410-69397/9	0.2	0.146117	10.0	1980944.0	0.730586	Y
2	IC 410-69397/8	0.5	0.375698	10.0	1995085.0	0.751397	Y
3	IC 410-69397/7	1.0	0.753945	10.0	1986644.0	0.753945	Y
4	IC 410-69397/6	2.0	1.497104	10.0	1976128.0	0.748552	Y
5	IC 410-69397/5	5.0	3.942195	10.0	1978687.0	0.788439	Y
6	ICIS 410-69397/4	10.0	7.87975	10.0	2065893.0	0.787975	Y
7	IC 410-69397/3	25.0	19.151444	10.0	2051897.0	0.766058	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

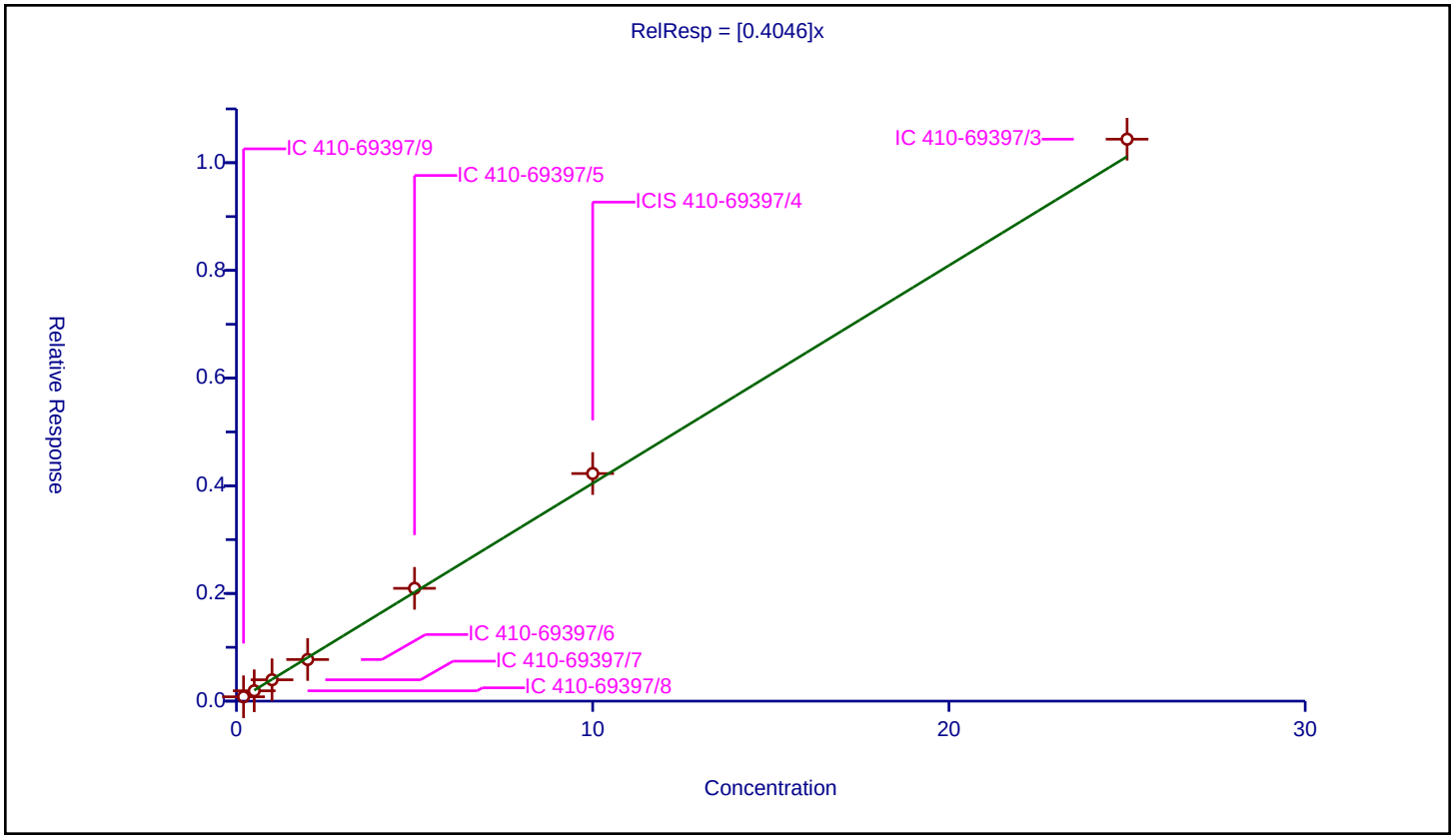
Curve Coefficients

Intercept:	0
Slope:	0.4046

Error Coefficients

Standard Error:	962000
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 410-69397/9	0.2	0.081007	10.0	1980944.0	0.405034	Y
2	IC 410-69397/8	0.5	0.192222	10.0	1995085.0	0.384445	Y
3	IC 410-69397/7	1.0	0.396845	10.0	1986644.0	0.396845	Y
4	IC 410-69397/6	2.0	0.773052	10.0	1976128.0	0.386526	Y
5	IC 410-69397/5	5.0	2.095304	10.0	1978687.0	0.419061	Y
6	ICIS 410-69397/4	10.0	4.227523	10.0	2065893.0	0.422752	Y
7	IC 410-69397/3	25.0	10.437761	10.0	2051897.0	0.41751	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

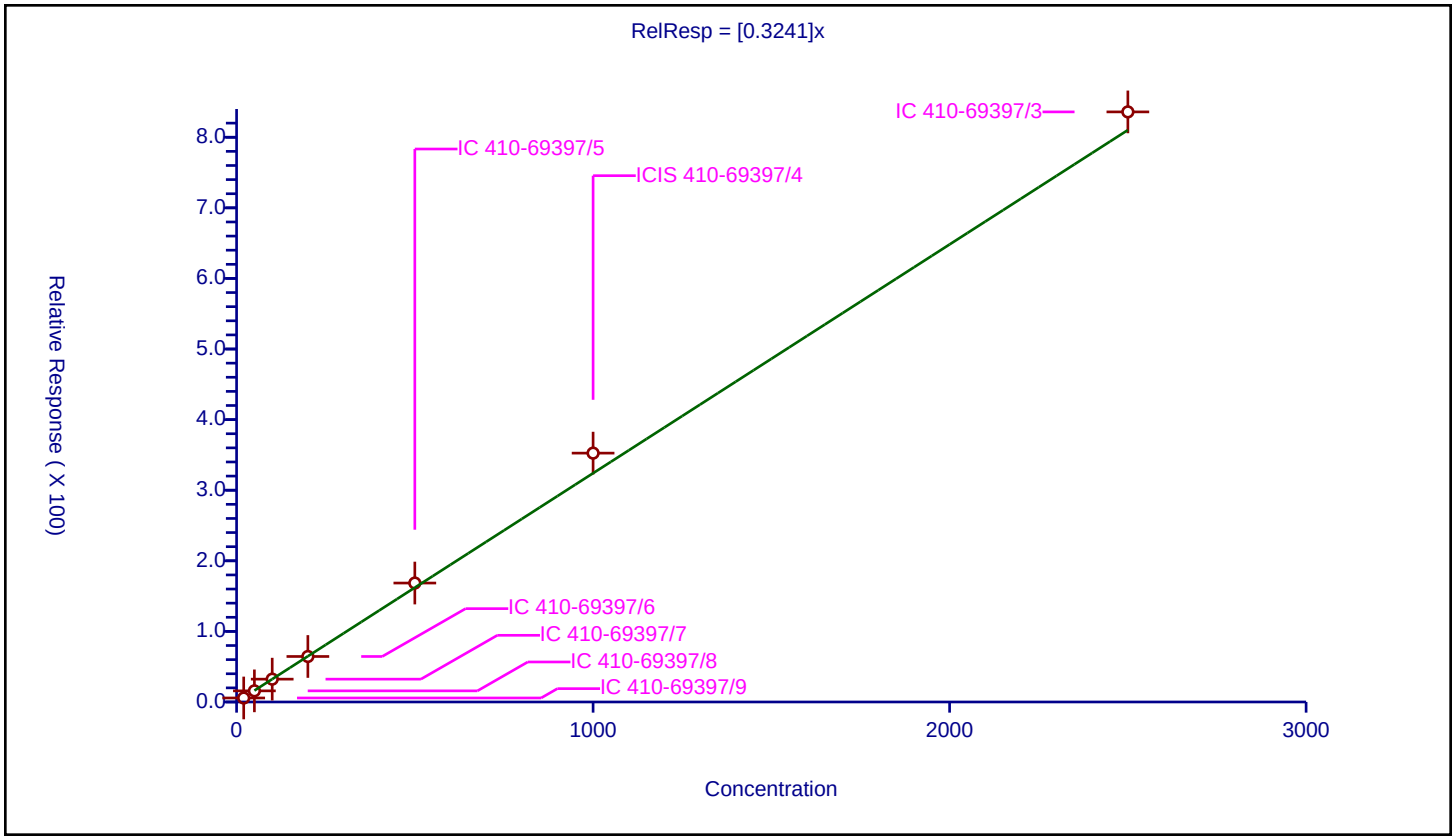
Curve Coefficients

Intercept:	0
Slope:	0.3241

Error Coefficients

Standard Error:	1280000
Relative Standard Error:	6.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	20.0	5.66899	50.0	157506.0	0.28345	Y
2	IC 410-69397/8	50.0	15.765763	50.0	156713.0	0.315315	Y
3	IC 410-69397/7	100.0	32.367439	50.0	155400.0	0.323674	Y
4	IC 410-69397/6	200.0	64.450242	50.0	164063.0	0.322251	Y
5	IC 410-69397/5	500.0	168.482721	50.0	167919.0	0.336965	Y
6	ICIS 410-69397/4	1000.0	352.527182	50.0	174562.0	0.352527	Y
7	IC 410-69397/3	2500.0	835.938504	50.0	168044.0	0.334375	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

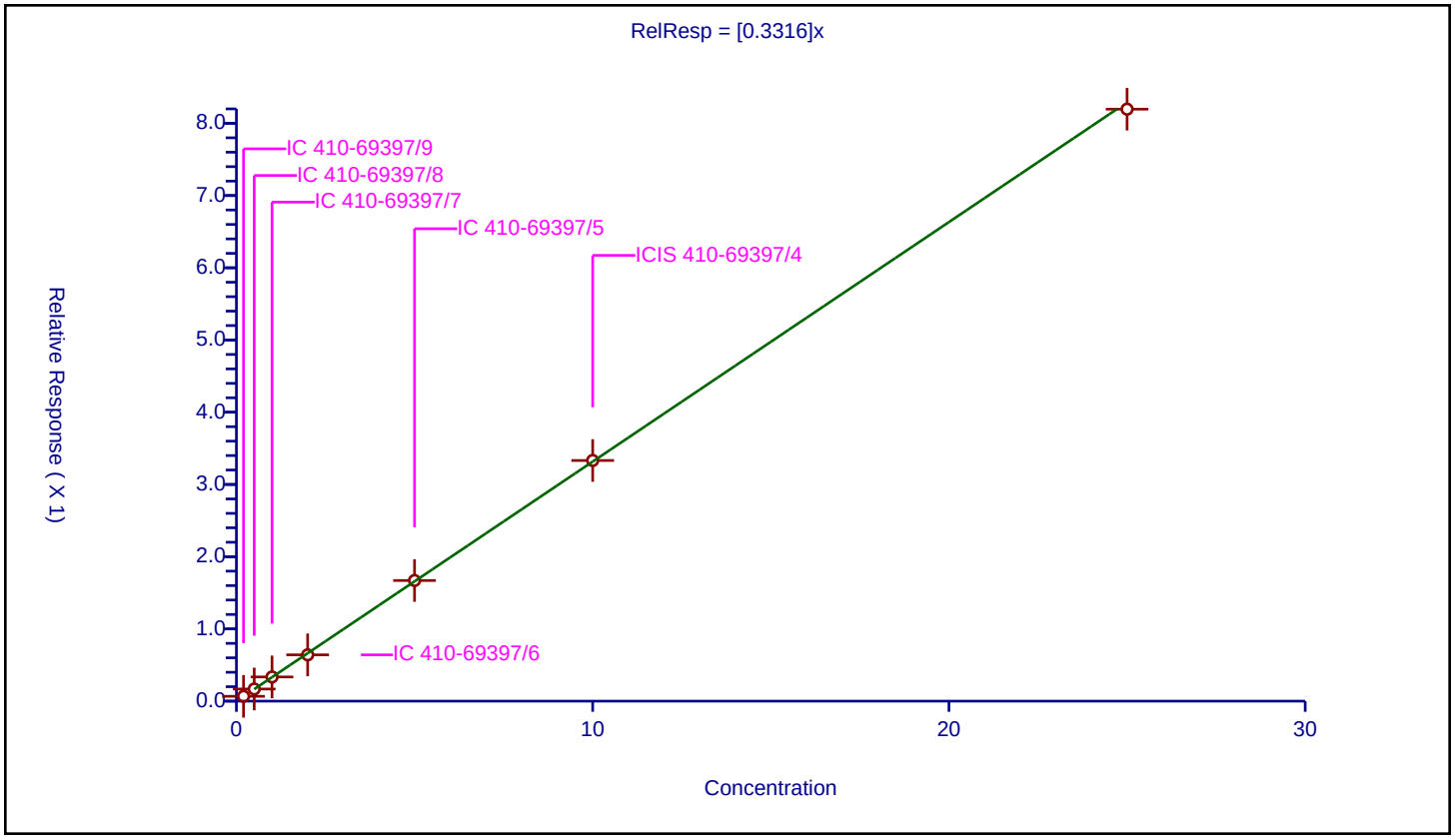
Curve Coefficients

Intercept:	0
Slope:	0.3316

Error Coefficients

Standard Error:	756000
Relative Standard Error:	1.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.067003	10.0	1980944.0	0.335017	Y
2	IC 410-69397/8	0.5	0.167837	10.0	1995085.0	0.335675	Y
3	IC 410-69397/7	1.0	0.335163	10.0	1986644.0	0.335163	Y
4	IC 410-69397/6	2.0	0.641122	10.0	1976128.0	0.320561	Y
5	IC 410-69397/5	5.0	1.67037	10.0	1978687.0	0.334074	Y
6	ICIS 410-69397/4	10.0	3.332026	10.0	2065893.0	0.333203	Y
7	IC 410-69397/3	25.0	8.196211	10.0	2051897.0	0.327848	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

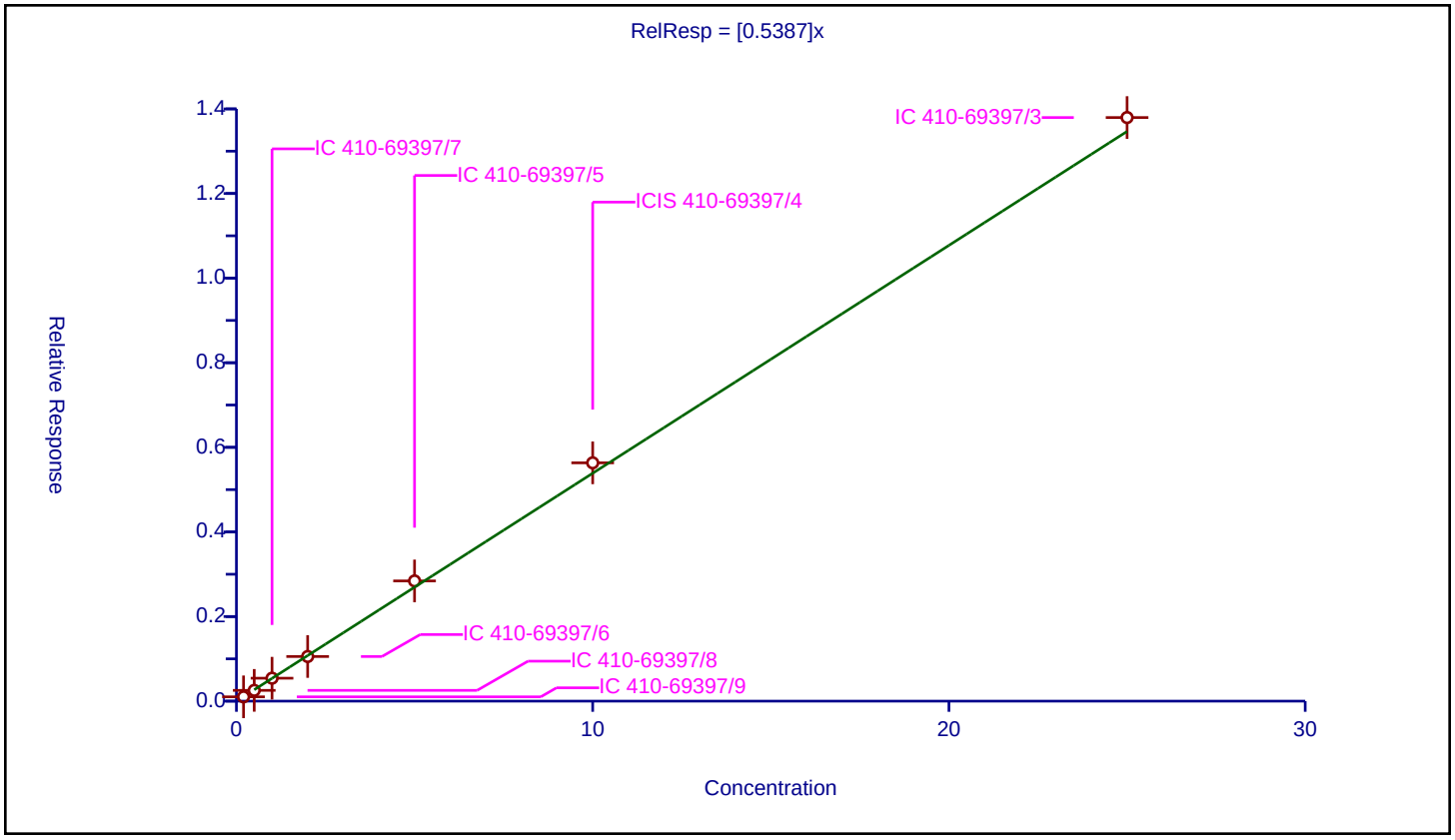
Curve Coefficients

Intercept:	0
Slope:	0.5387

Error Coefficients

Standard Error:	1270000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.101467	10.0	1980944.0	0.507334	Y
2	IC 410-69397/8	0.5	0.254937	10.0	1995085.0	0.509873	Y
3	IC 410-69397/7	1.0	0.542674	10.0	1986644.0	0.542674	Y
4	IC 410-69397/6	2.0	1.055083	10.0	1976128.0	0.527542	Y
5	IC 410-69397/5	5.0	2.841869	10.0	1978687.0	0.568374	Y
6	ICIS 410-69397/4	10.0	5.63322	10.0	2065893.0	0.563322	Y
7	IC 410-69397/3	25.0	13.795561	10.0	2051897.0	0.551822	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

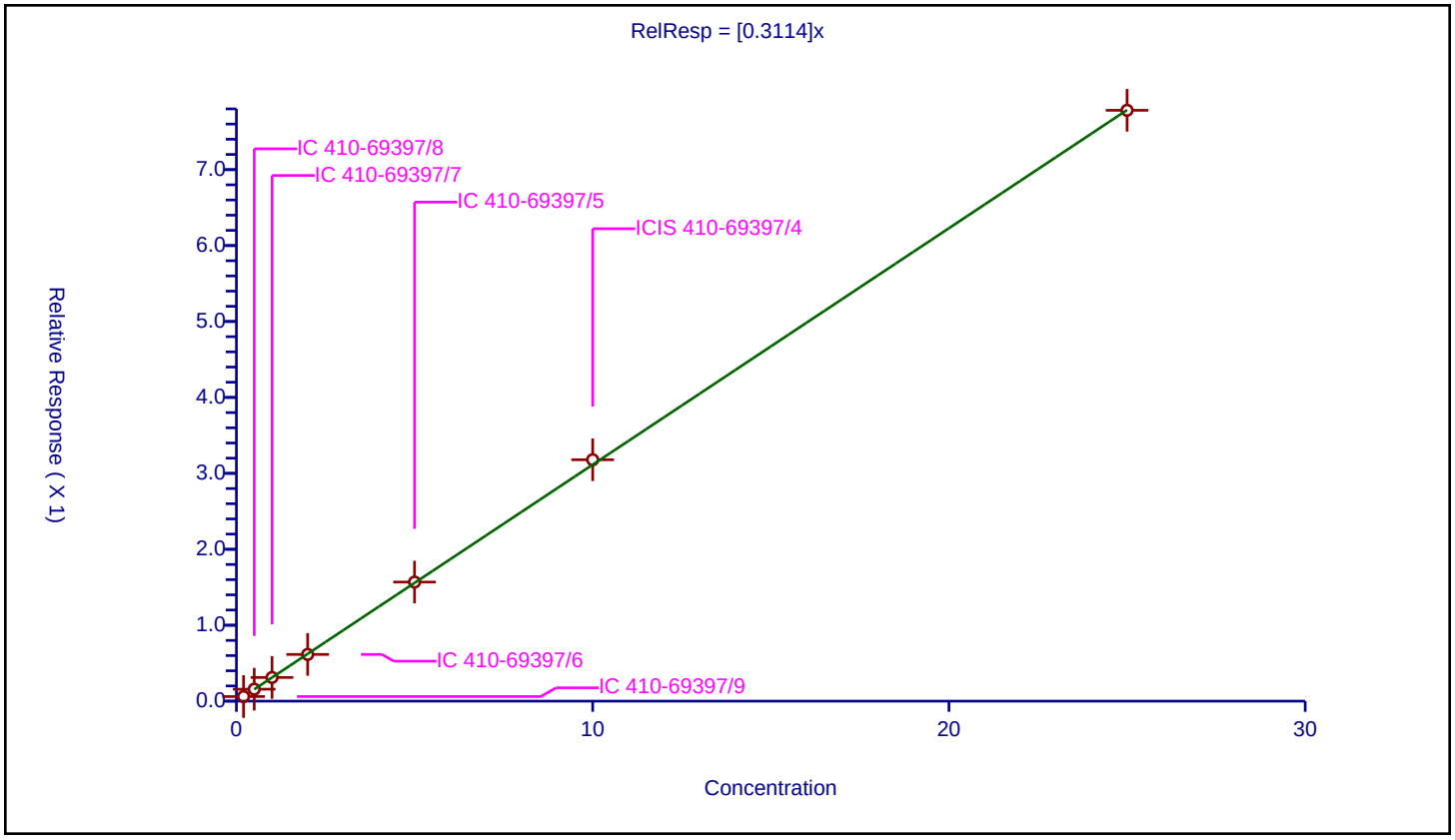
Curve Coefficients

Intercept:	0
Slope:	0.3114

Error Coefficients

Standard Error:	718000
Relative Standard Error:	1.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.060623	10.0	1980944.0	0.303113	Y
2	IC 410-69397/8	0.5	0.157322	10.0	1995085.0	0.314643	Y
3	IC 410-69397/7	1.0	0.311807	10.0	1986644.0	0.311807	Y
4	IC 410-69397/6	2.0	0.615193	10.0	1976128.0	0.307596	Y
5	IC 410-69397/5	5.0	1.568166	10.0	1978687.0	0.313633	Y
6	ICIS 410-69397/4	10.0	3.17908	10.0	2065893.0	0.317908	Y
7	IC 410-69397/3	25.0	7.781385	10.0	2051897.0	0.311255	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

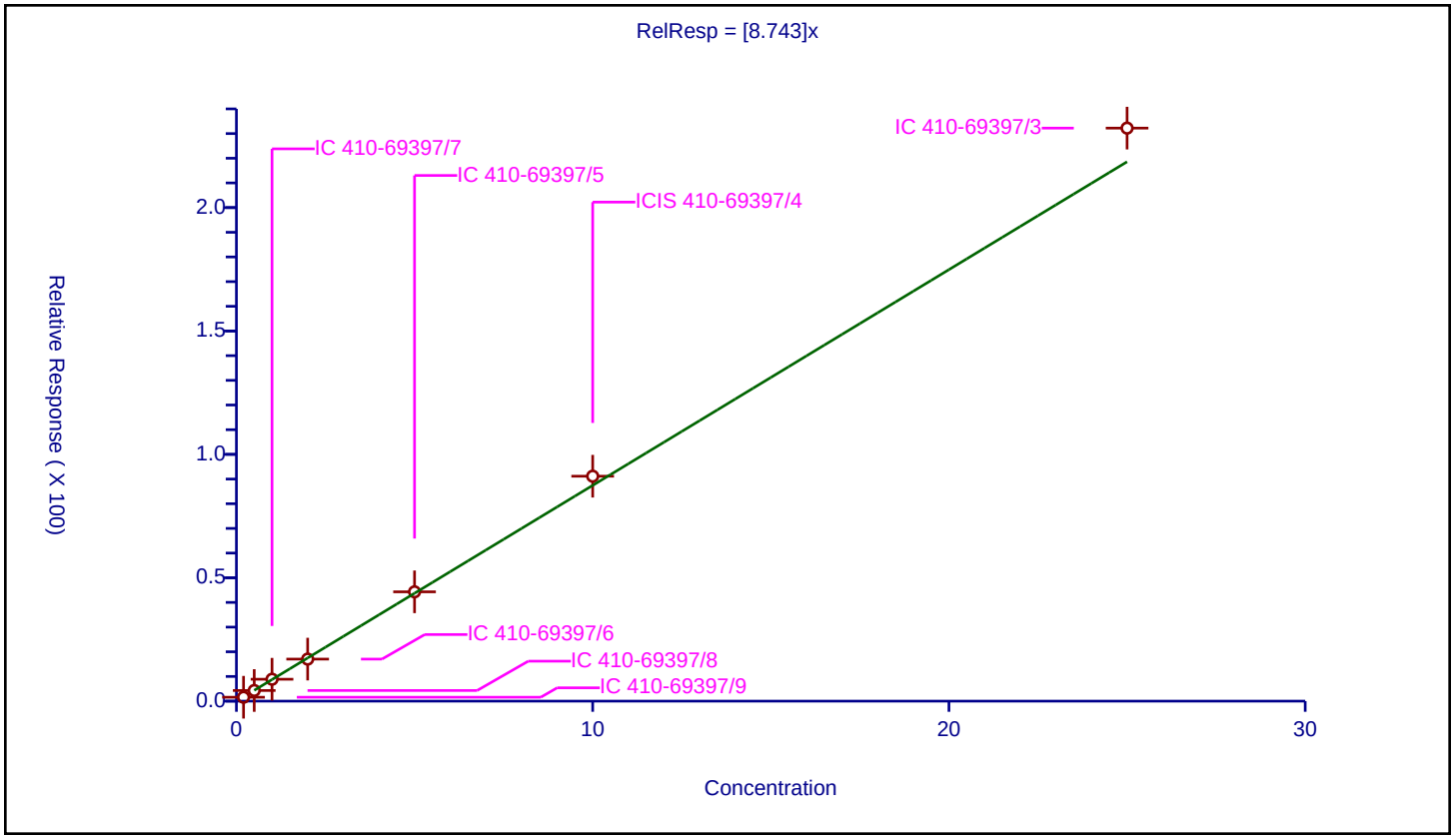
Curve Coefficients

Intercept:	0
Slope:	8.743

Error Coefficients

Standard Error:	350000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	1.583114	50.0	157506.0	7.915571	Y
2	IC 410-69397/8	0.5	4.31298	50.0	156713.0	8.62596	Y
3	IC 410-69397/7	1.0	8.879344	50.0	155400.0	8.879344	Y
4	IC 410-69397/6	2.0	17.035834	50.0	164063.0	8.517917	Y
5	IC 410-69397/5	5.0	44.295166	50.0	167919.0	8.859033	Y
6	ICIS 410-69397/4	10.0	91.157869	50.0	174562.0	9.115787	Y
7	IC 410-69397/3	25.0	232.212099	50.0	168044.0	9.288484	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

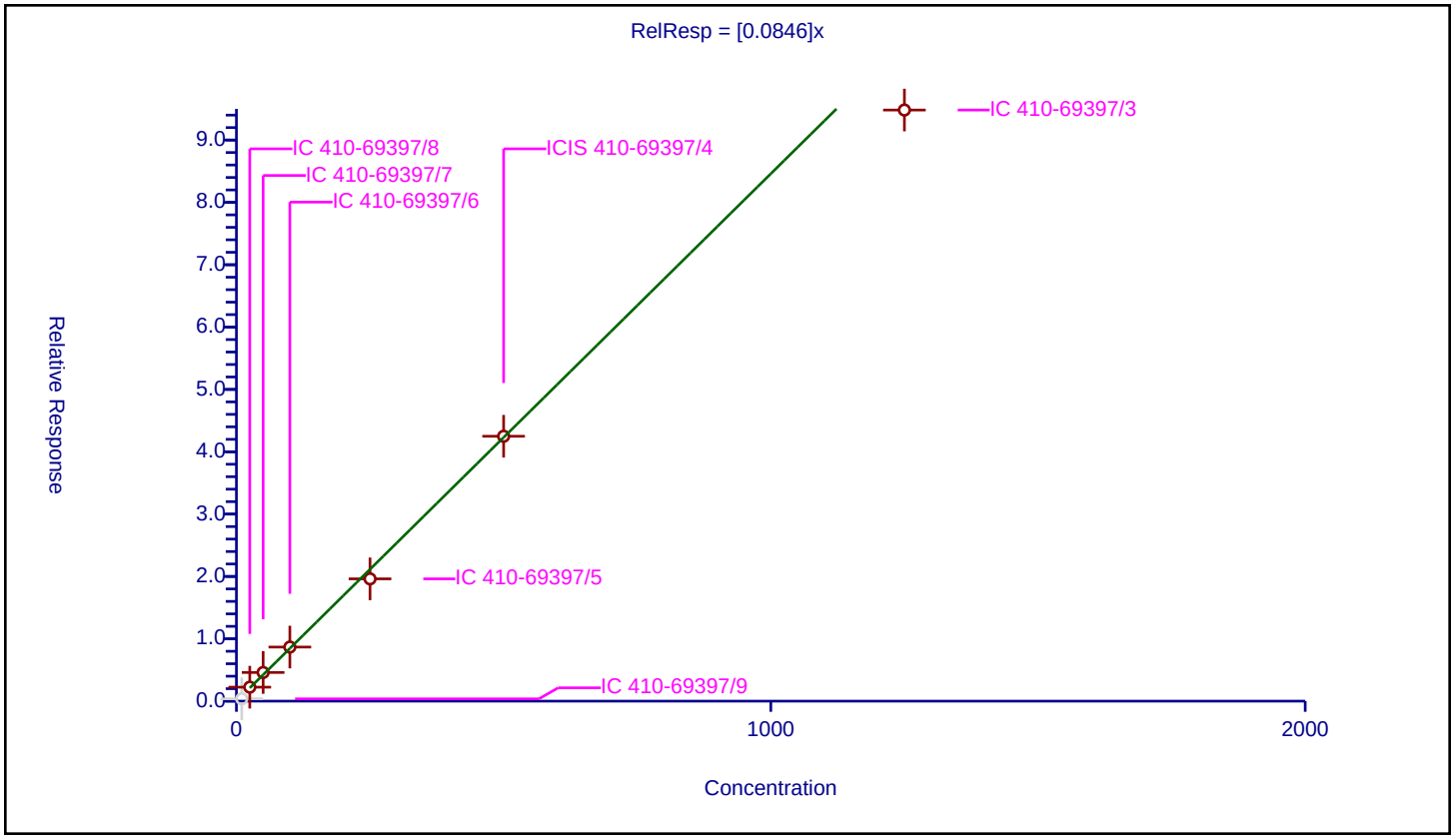
Curve Coefficients

Intercept:	0
Slope:	0.0846

Error Coefficients

Standard Error:	161000
Relative Standard Error:	7.4
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	10.0	0.371414	50.0	157506.0	0.037141	N
2	IC 410-69397/8	25.0	2.24072	50.0	156713.0	0.089629	Y
3	IC 410-69397/7	50.0	4.59749	50.0	155400.0	0.09195	Y
4	IC 410-69397/6	100.0	8.672888	50.0	164063.0	0.086729	Y
5	IC 410-69397/5	250.0	19.617792	50.0	167919.0	0.078471	Y
6	ICIS 410-69397/4	500.0	42.490634	50.0	174562.0	0.084981	Y
7	IC 410-69397/3	1250.0	94.815048	50.0	168044.0	0.075852	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

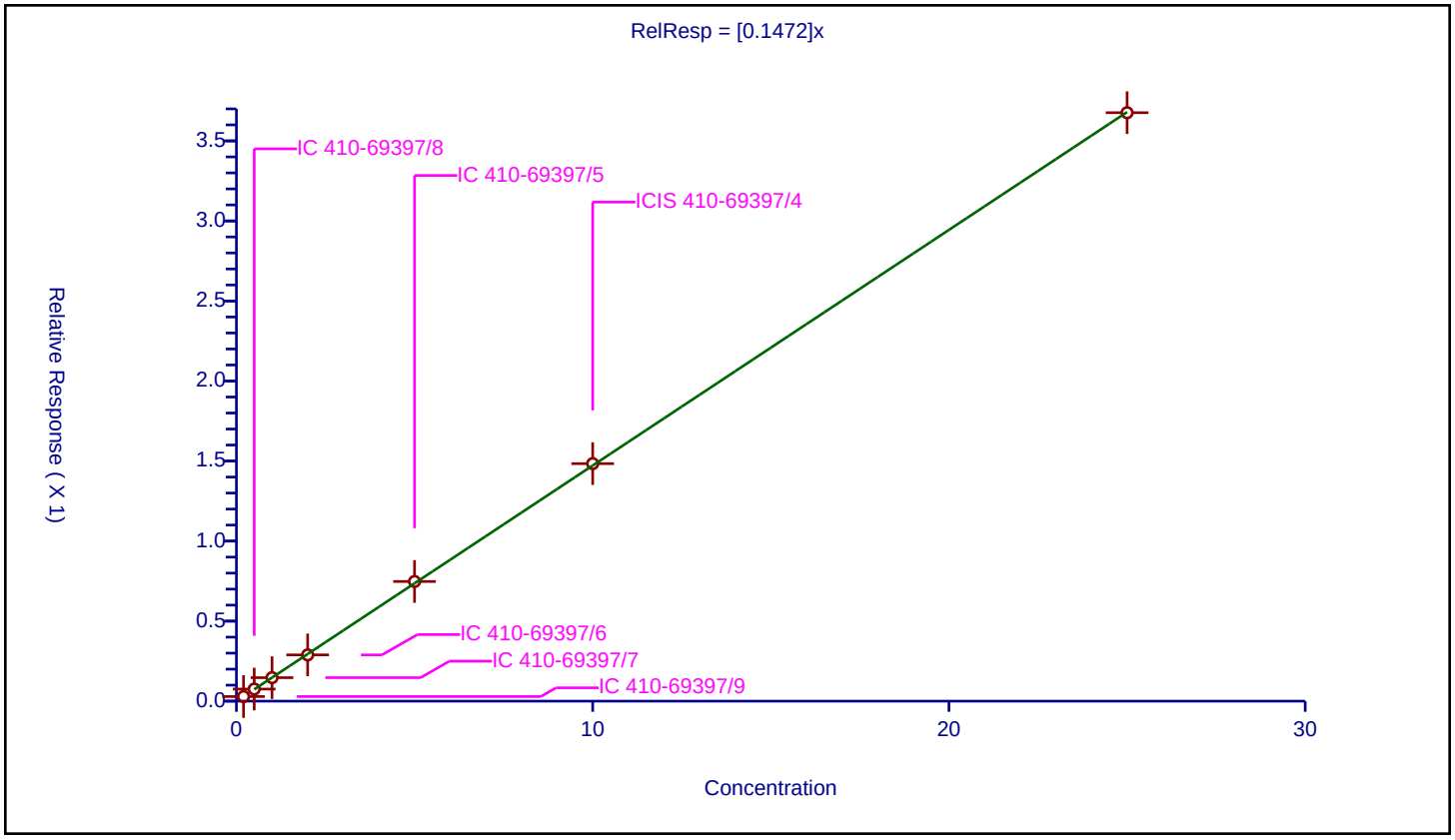
Curve Coefficients

Intercept:	0
Slope:	0.1472

Error Coefficients

Standard Error:	339000
Relative Standard Error:	1.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.028668	10.0	1980944.0	0.143341	Y
2	IC 410-69397/8	0.5	0.075501	10.0	1995085.0	0.151001	Y
3	IC 410-69397/7	1.0	0.146674	10.0	1986644.0	0.146674	Y
4	IC 410-69397/6	2.0	0.288903	10.0	1976128.0	0.144452	Y
5	IC 410-69397/5	5.0	0.747571	10.0	1978687.0	0.149514	Y
6	ICIS 410-69397/4	10.0	1.483823	10.0	2065893.0	0.148382	Y
7	IC 410-69397/3	25.0	3.676286	10.0	2051897.0	0.147051	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

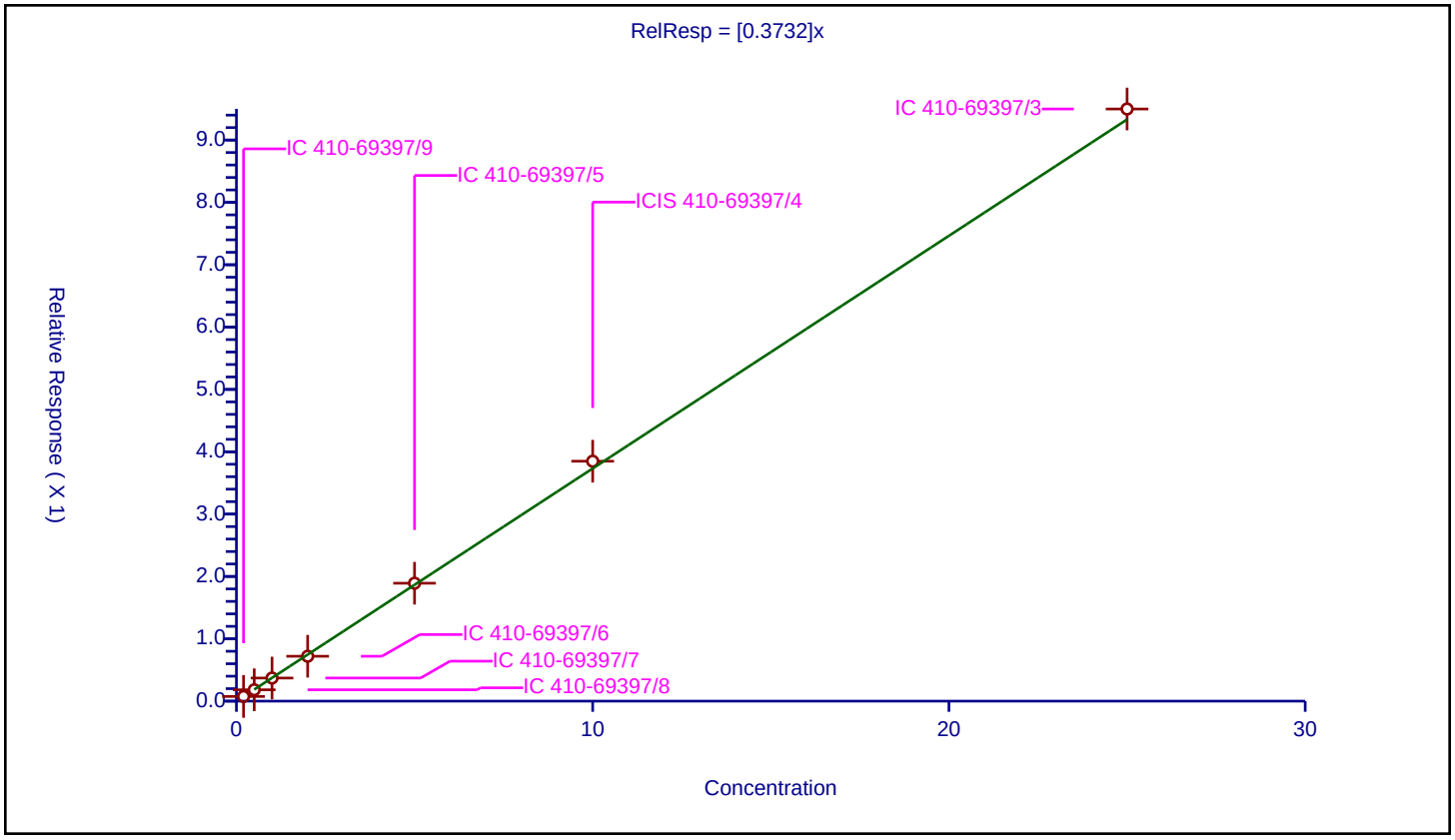
Curve Coefficients

Intercept:	0
Slope:	0.3732

Error Coefficients

Standard Error:	875000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.074813	10.0	1980944.0	0.374064	Y
2	IC 410-69397/8	0.5	0.182258	10.0	1995085.0	0.364516	Y
3	IC 410-69397/7	1.0	0.370726	10.0	1986644.0	0.370726	Y
4	IC 410-69397/6	2.0	0.720267	10.0	1976128.0	0.360134	Y
5	IC 410-69397/5	5.0	1.891603	10.0	1978687.0	0.378321	Y
6	ICIS 410-69397/4	10.0	3.848694	10.0	2065893.0	0.384869	Y
7	IC 410-69397/3	25.0	9.498381	10.0	2051897.0	0.379935	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

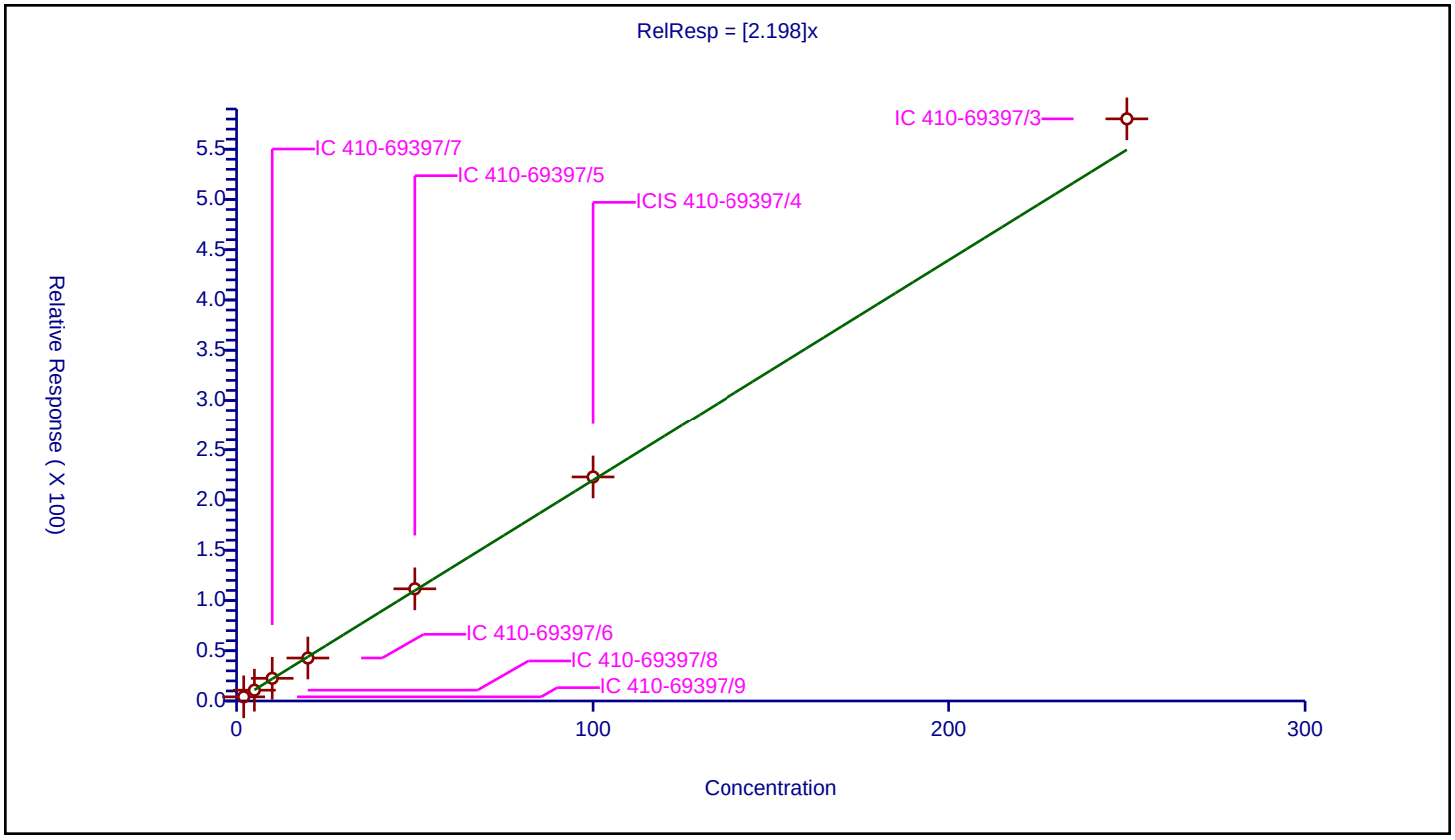
Curve Coefficients

Intercept:	0
Slope:	2.198

Error Coefficients

Standard Error:	873000
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 410-69397/9	2.0	4.115081	50.0	157506.0	2.057541	Y
2	IC 410-69397/8	5.0	10.762668	50.0	156713.0	2.152534	Y
3	IC 410-69397/7	10.0	22.556306	50.0	155400.0	2.255631	Y
4	IC 410-69397/6	20.0	42.746079	50.0	164063.0	2.137304	Y
5	IC 410-69397/5	50.0	111.617506	50.0	167919.0	2.23235	Y
6	ICIS 410-69397/4	100.0	222.917359	50.0	174562.0	2.229174	Y
7	IC 410-69397/3	250.0	580.216193	50.0	168044.0	2.320865	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

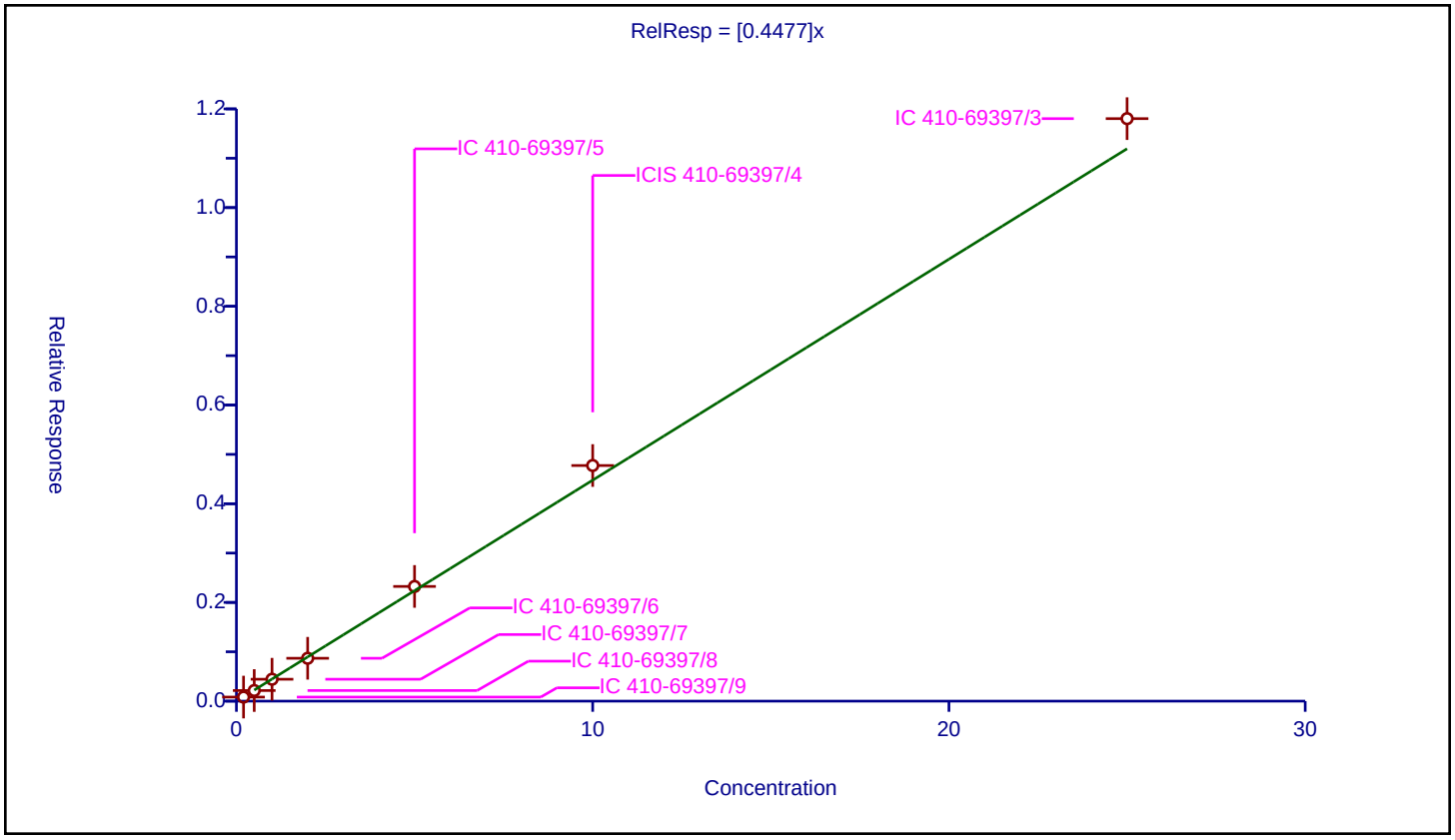
Curve Coefficients

Intercept:	0
Slope:	0.4477

Error Coefficients

Standard Error:	1090000
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 410-69397/9	0.2	0.082314	10.0	1980944.0	0.411571	Y
2	IC 410-69397/8	0.5	0.214938	10.0	1995085.0	0.429876	Y
3	IC 410-69397/7	1.0	0.44393	10.0	1986644.0	0.44393	Y
4	IC 410-69397/6	2.0	0.868587	10.0	1976128.0	0.434294	Y
5	IC 410-69397/5	5.0	2.324031	10.0	1978687.0	0.464806	Y
6	ICIS 410-69397/4	10.0	4.774308	10.0	2065893.0	0.477431	Y
7	IC 410-69397/3	25.0	11.802746	10.0	2051897.0	0.47211	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

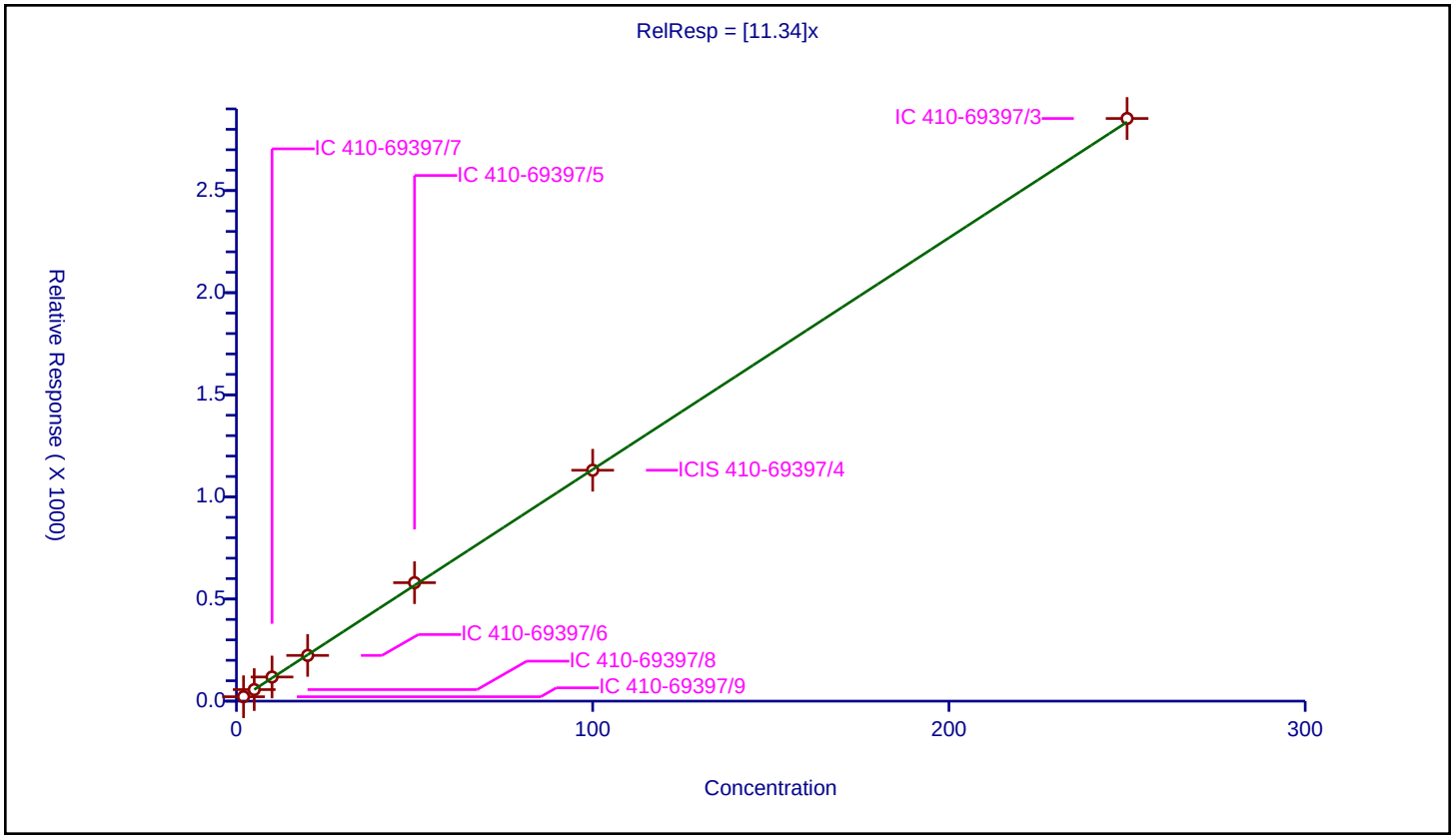
Curve Coefficients

Intercept:	0
Slope:	11.34

Error Coefficients

Standard Error:	4320000
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 410-69397/9	2.0	21.532196	50.0	157506.0	10.766098	Y
2	IC 410-69397/8	5.0	56.53009	50.0	156713.0	11.306018	Y
3	IC 410-69397/7	10.0	118.19112	50.0	155400.0	11.819112	Y
4	IC 410-69397/6	20.0	223.837184	50.0	164063.0	11.191859	Y
5	IC 410-69397/5	50.0	580.078788	50.0	167919.0	11.601576	Y
6	ICIS 410-69397/4	100.0	1130.594287	50.0	174562.0	11.305943	Y
7	IC 410-69397/3	250.0	2853.051284	50.0	168044.0	11.412205	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

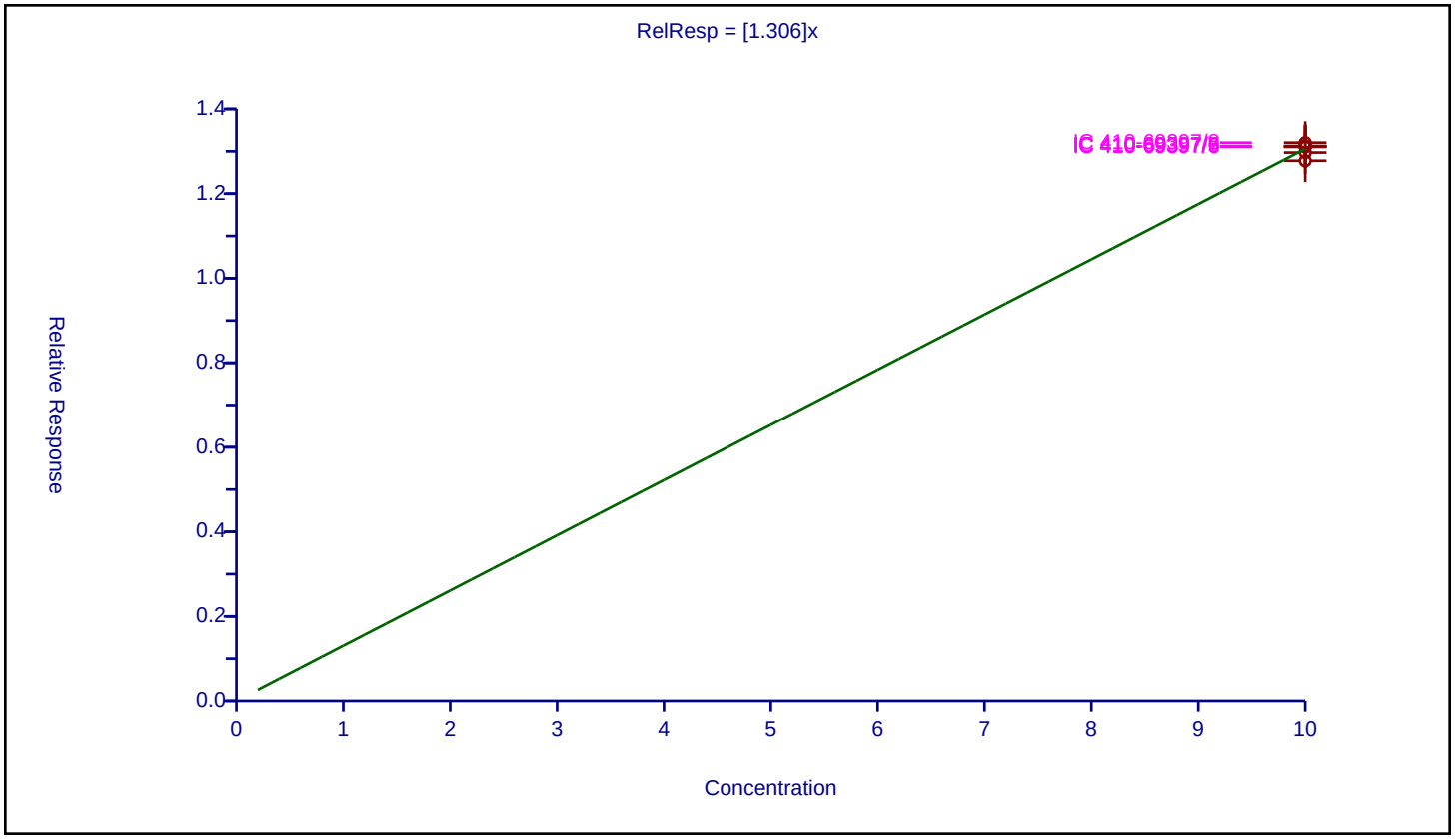
Curve Coefficients

Intercept:	0
Slope:	1.306

Error Coefficients

Standard Error:	2130000
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 410-69397/3	10.0	12.777949	10.0	1579118.0	1.277795	Y
2	ICIS 410-69397/4	10.0	12.971482	10.0	1570516.0	1.297148	Y
3	IC 410-69397/5	10.0	13.125886	10.0	1486999.0	1.312589	Y
4	IC 410-69397/6	10.0	13.104358	10.0	1481807.0	1.310436	Y
5	IC 410-69397/7	10.0	13.114107	10.0	1484400.0	1.311411	Y
6	IC 410-69397/8	10.0	13.204428	10.0	1487373.0	1.320443	Y
7	IC 410-69397/9	10.0	13.117124	10.0	1473403.0	1.311712	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

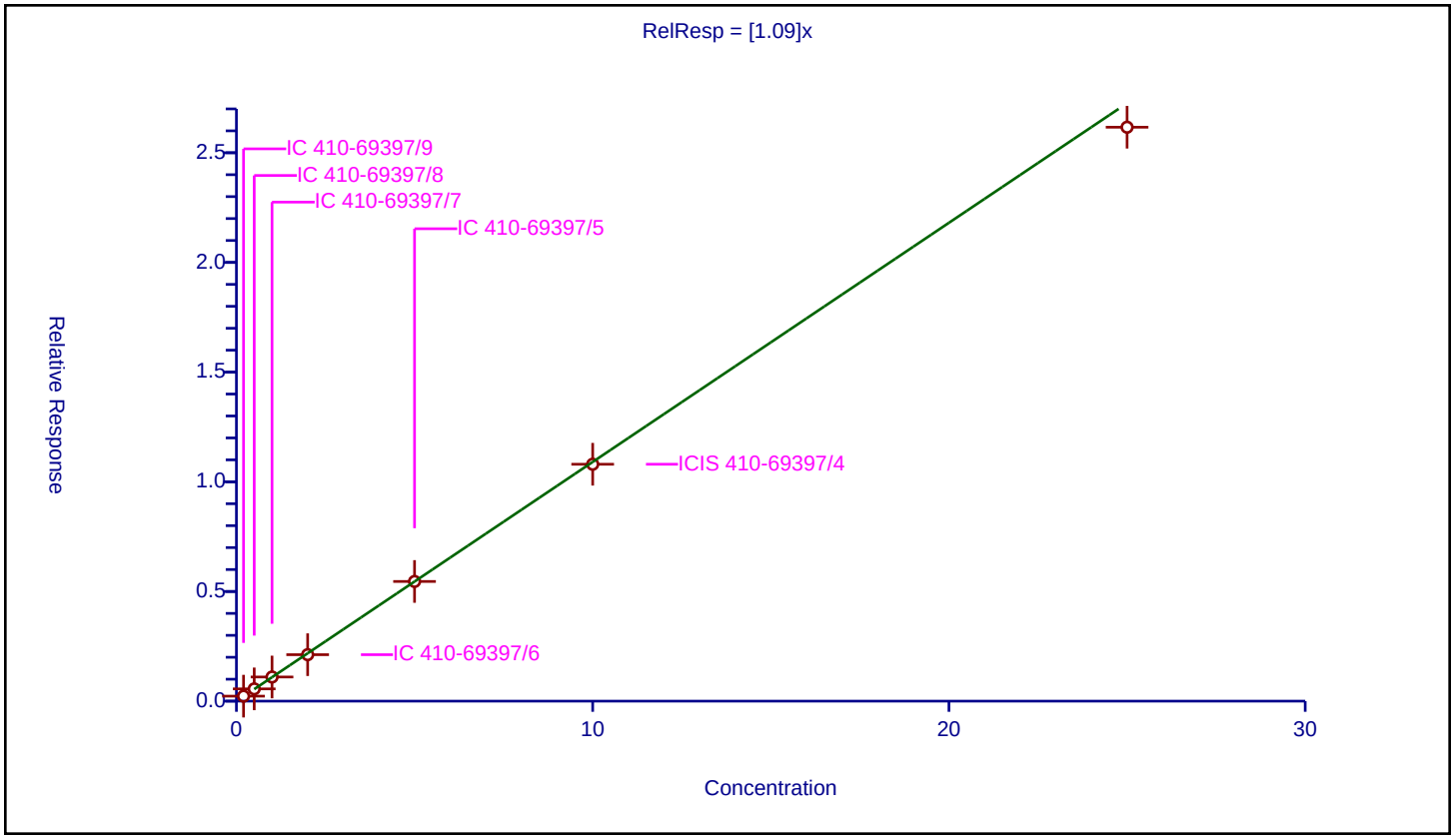
Curve Coefficients

Intercept:	0
Slope:	1.09

Error Coefficients

Standard Error:	1860000
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 410-69397/9	0.2	0.227623	10.0	1473403.0	1.138114	Y
2	IC 410-69397/8	0.5	0.558663	10.0	1487373.0	1.117326	Y
3	IC 410-69397/7	1.0	1.100168	10.0	1484400.0	1.100168	Y
4	IC 410-69397/6	2.0	2.118353	10.0	1481807.0	1.059176	Y
5	IC 410-69397/5	5.0	5.456466	10.0	1486999.0	1.091293	Y
6	ICIS 410-69397/4	10.0	10.799361	10.0	1570516.0	1.079936	Y
7	IC 410-69397/3	25.0	26.164447	10.0	1579118.0	1.046578	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

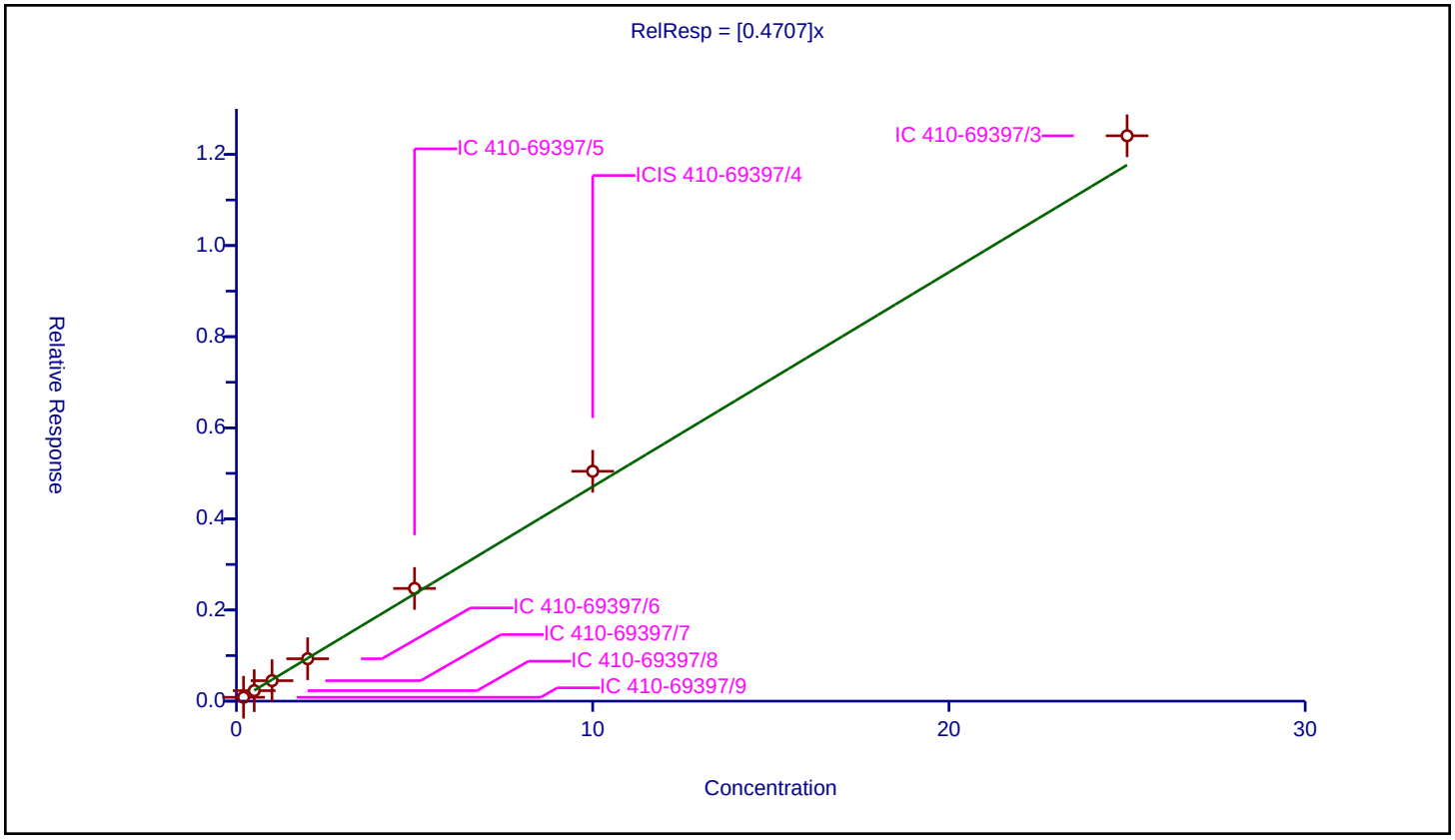
Curve Coefficients

Intercept:	0
Slope:	0.4707

Error Coefficients

Standard Error:	878000
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 410-69397/9	0.2	0.084756	10.0	1473403.0	0.423781	Y
2	IC 410-69397/8	0.5	0.230426	10.0	1487373.0	0.460853	Y
3	IC 410-69397/7	1.0	0.449468	10.0	1484400.0	0.449468	Y
4	IC 410-69397/6	2.0	0.930843	10.0	1481807.0	0.465422	Y
5	IC 410-69397/5	5.0	2.473855	10.0	1486999.0	0.494771	Y
6	ICIS 410-69397/4	10.0	5.045514	10.0	1570516.0	0.504551	Y
7	IC 410-69397/3	25.0	12.409719	10.0	1579118.0	0.496389	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

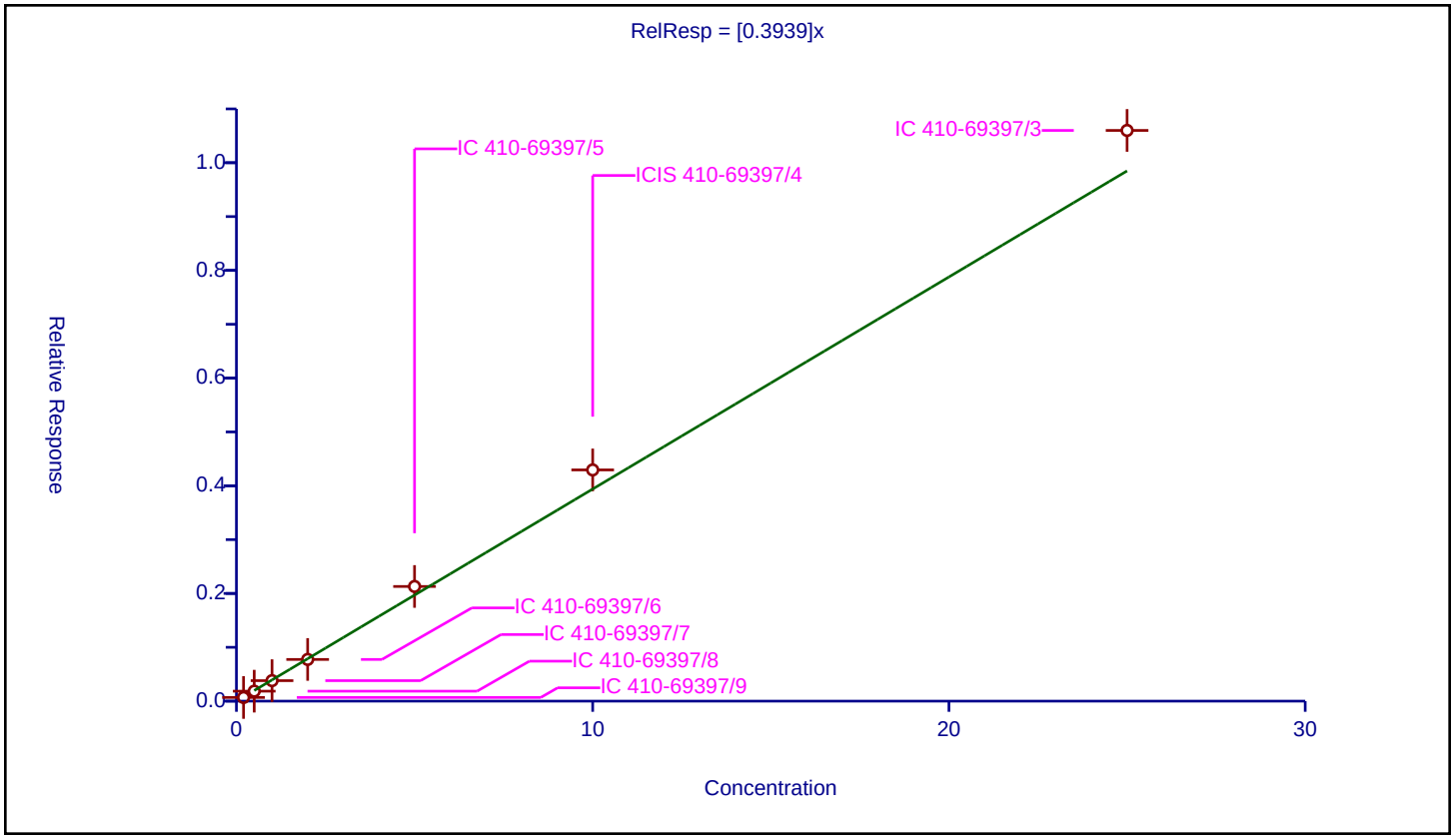
Curve Coefficients

Intercept:	0
Slope:	0.3939

Error Coefficients

Standard Error:	750000
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 410-69397/9	0.2	0.067836	10.0	1473403.0	0.339181	Y
2	IC 410-69397/8	0.5	0.185454	10.0	1487373.0	0.370909	Y
3	IC 410-69397/7	1.0	0.380874	10.0	1484400.0	0.380874	Y
4	IC 410-69397/6	2.0	0.774217	10.0	1481807.0	0.387108	Y
5	IC 410-69397/5	5.0	2.129981	10.0	1486999.0	0.425996	Y
6	ICIS 410-69397/4	10.0	4.294474	10.0	1570516.0	0.429447	Y
7	IC 410-69397/3	25.0	10.599879	10.0	1579118.0	0.423995	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

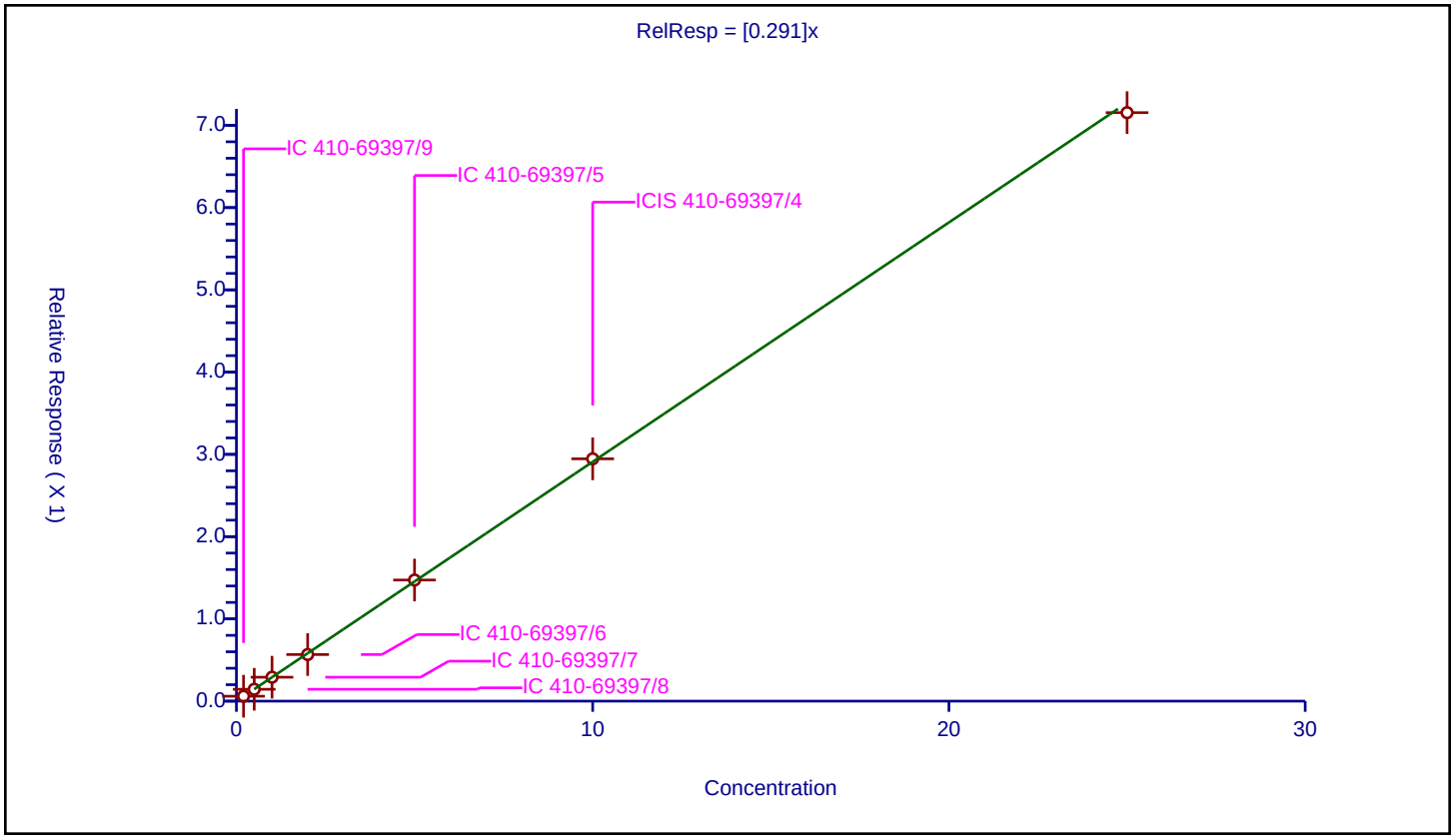
Curve Coefficients

Intercept:	0
Slope:	0.291

Error Coefficients

Standard Error:	508000
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.059848	10.0	1473403.0	0.299239	Y
2	IC 410-69397/8	0.5	0.144194	10.0	1487373.0	0.288388	Y
3	IC 410-69397/7	1.0	0.290845	10.0	1484400.0	0.290845	Y
4	IC 410-69397/6	2.0	0.566315	10.0	1481807.0	0.283158	Y
5	IC 410-69397/5	5.0	1.472395	10.0	1486999.0	0.294479	Y
6	ICIS 410-69397/4	10.0	2.946127	10.0	1570516.0	0.294613	Y
7	IC 410-69397/3	25.0	7.15438	10.0	1579118.0	0.286175	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

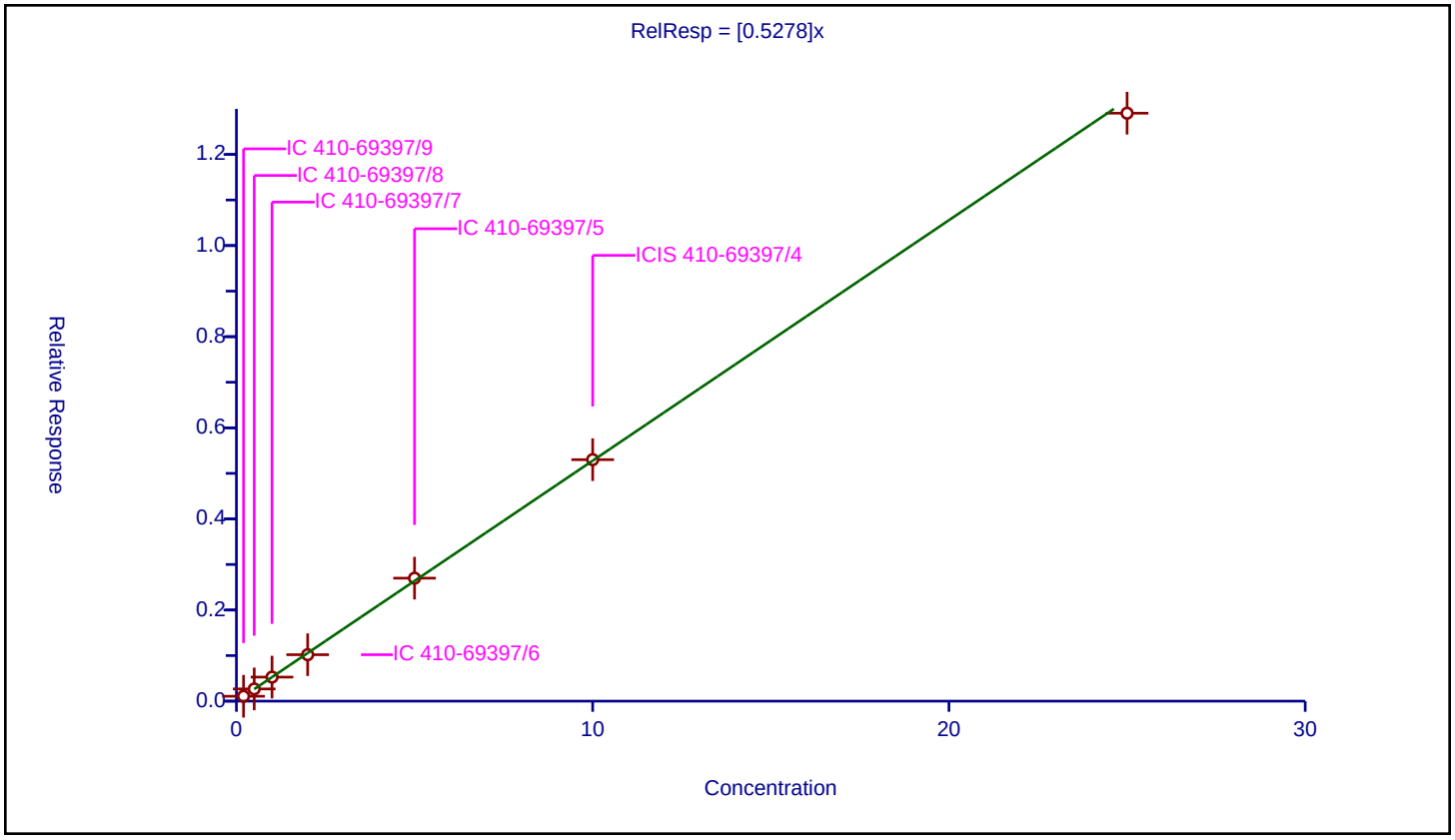
Curve Coefficients

Intercept:	0
Slope:	0.5278

Error Coefficients

Standard Error:	916000
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.107045	10.0	1473403.0	0.535224	Y
2	IC 410-69397/8	0.5	0.267969	10.0	1487373.0	0.535938	Y
3	IC 410-69397/7	1.0	0.527843	10.0	1484400.0	0.527843	Y
4	IC 410-69397/6	2.0	1.019208	10.0	1481807.0	0.509604	Y
5	IC 410-69397/5	5.0	2.699659	10.0	1486999.0	0.539932	Y
6	ICIS 410-69397/4	10.0	5.300716	10.0	1570516.0	0.530072	Y
7	IC 410-69397/3	25.0	12.905267	10.0	1579118.0	0.516211	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

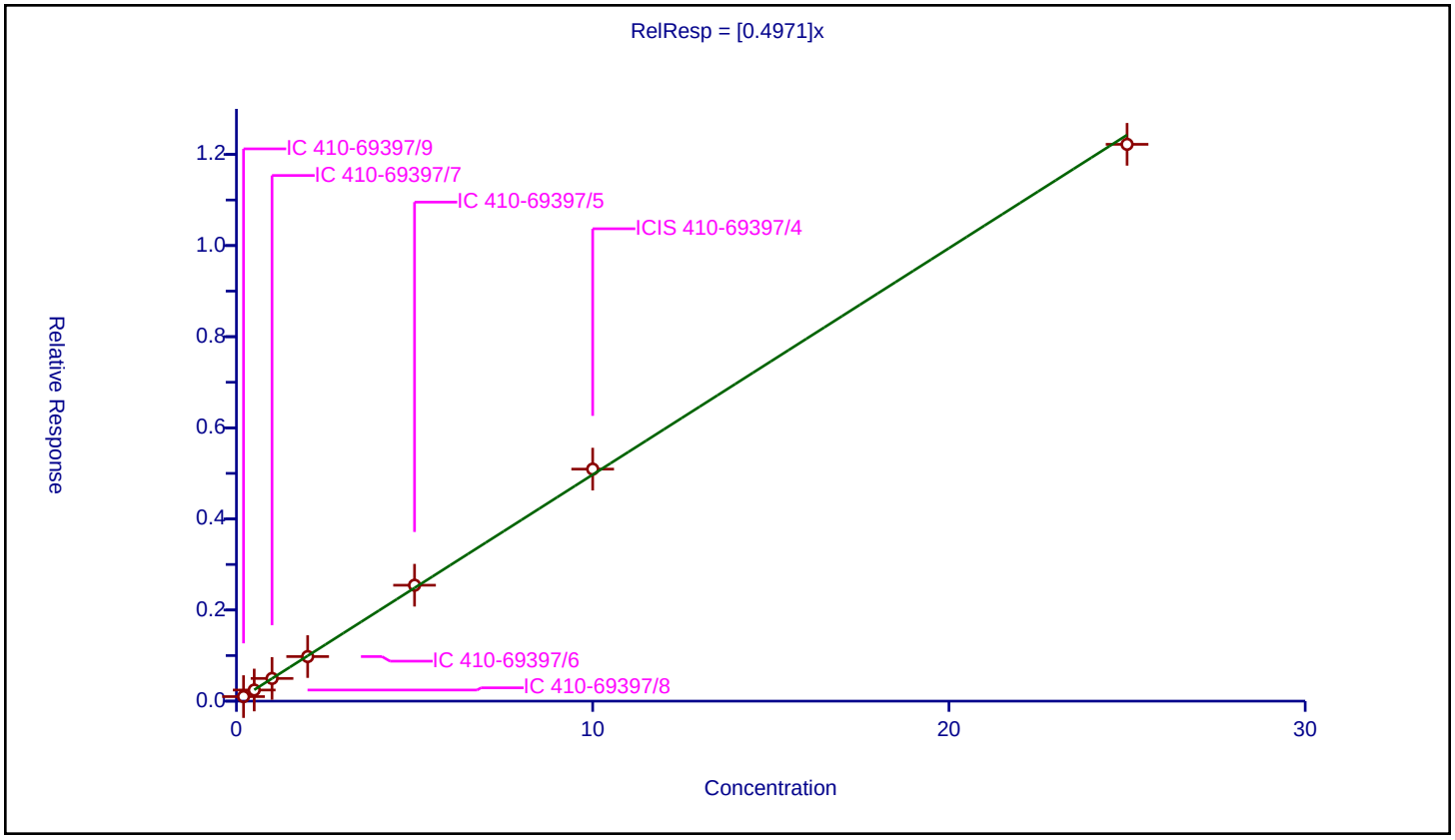
Curve Coefficients

Intercept:	0
Slope:	0.4971

Error Coefficients

Standard Error:	869000
Relative Standard Error:	1.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.09947	10.0	1473403.0	0.497352	Y
2	IC 410-69397/8	0.5	0.244075	10.0	1487373.0	0.488149	Y
3	IC 410-69397/7	1.0	0.498188	10.0	1484400.0	0.498188	Y
4	IC 410-69397/6	2.0	0.978184	10.0	1481807.0	0.489092	Y
5	IC 410-69397/5	5.0	2.544709	10.0	1486999.0	0.508942	Y
6	ICIS 410-69397/4	10.0	5.093224	10.0	1570516.0	0.509322	Y
7	IC 410-69397/3	25.0	12.22219	10.0	1579118.0	0.488888	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

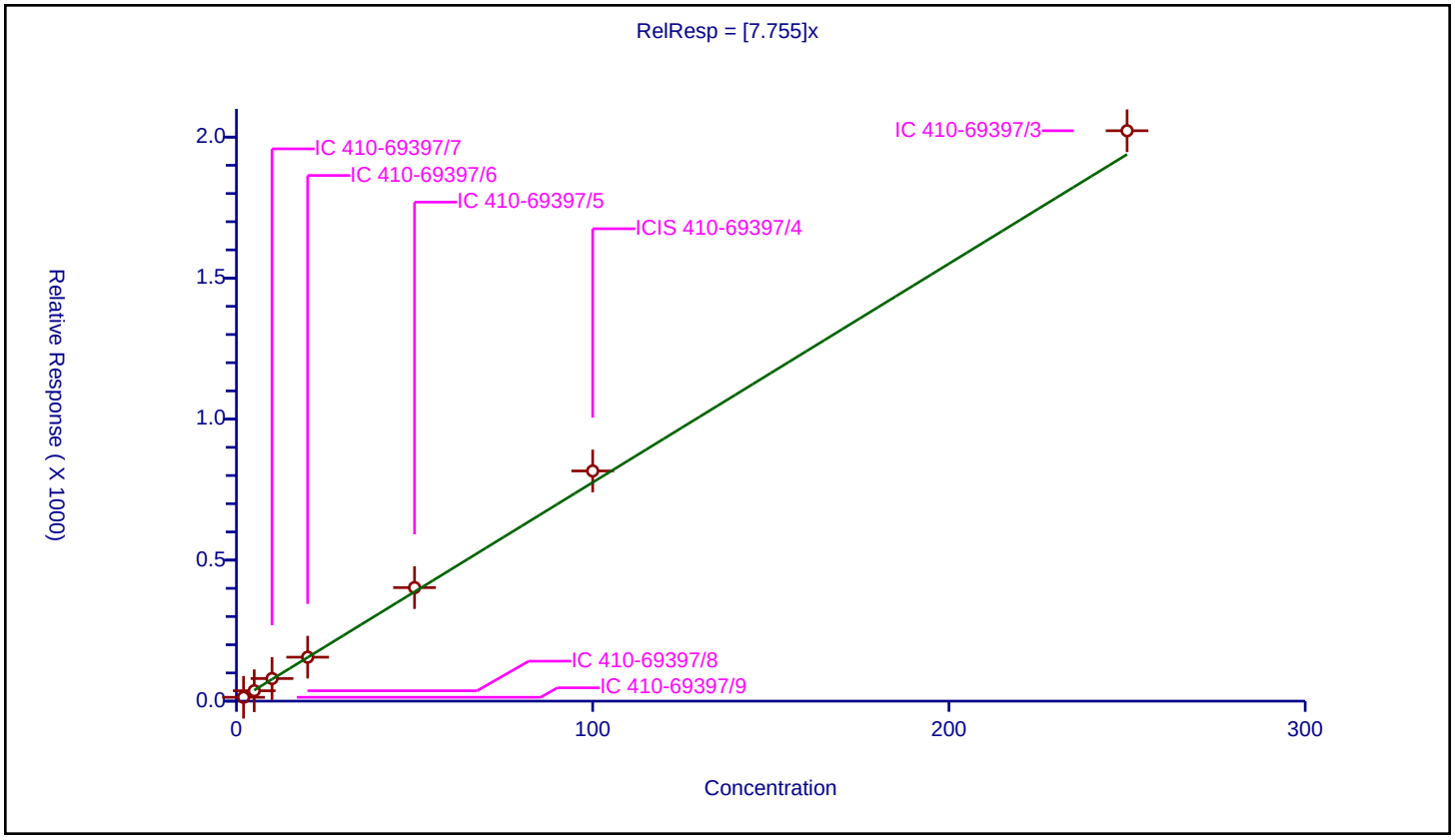
Curve Coefficients

Intercept:	0
Slope:	7.755

Error Coefficients

Standard Error:	3070000
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 410-69397/9	2.0	13.607736	50.0	157506.0	6.803868	Y
2	IC 410-69397/8	5.0	36.882709	50.0	156713.0	7.376542	Y
3	IC 410-69397/7	10.0	80.112613	50.0	155400.0	8.011261	Y
4	IC 410-69397/6	20.0	155.870915	50.0	164063.0	7.793546	Y
5	IC 410-69397/5	50.0	402.554803	50.0	167919.0	8.051096	Y
6	ICIS 410-69397/4	100.0	816.164457	50.0	174562.0	8.161645	Y
7	IC 410-69397/3	250.0	2022.523268	50.0	168044.0	8.090093	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

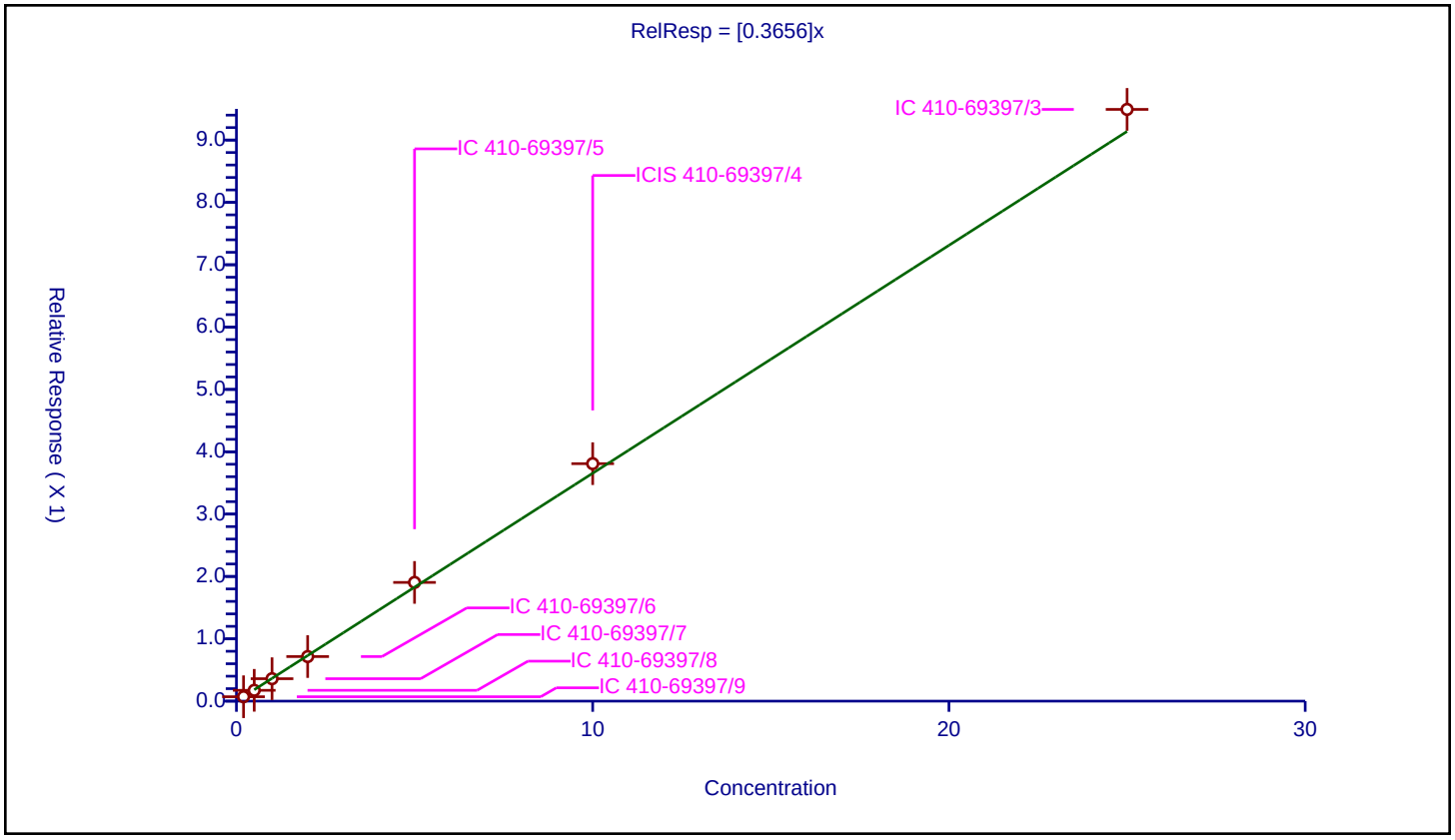
Curve Coefficients

Intercept:	0
Slope:	0.3656

Error Coefficients

Standard Error:	671000
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 410-69397/9	0.2	0.070585	10.0	1473403.0	0.352924	Y
2	IC 410-69397/8	0.5	0.173534	10.0	1487373.0	0.347068	Y
3	IC 410-69397/7	1.0	0.359997	10.0	1484400.0	0.359997	Y
4	IC 410-69397/6	2.0	0.71487	10.0	1481807.0	0.357435	Y
5	IC 410-69397/5	5.0	1.904554	10.0	1486999.0	0.380911	Y
6	ICIS 410-69397/4	10.0	3.809334	10.0	1570516.0	0.380933	Y
7	IC 410-69397/3	25.0	9.49171	10.0	1579118.0	0.379668	Y



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

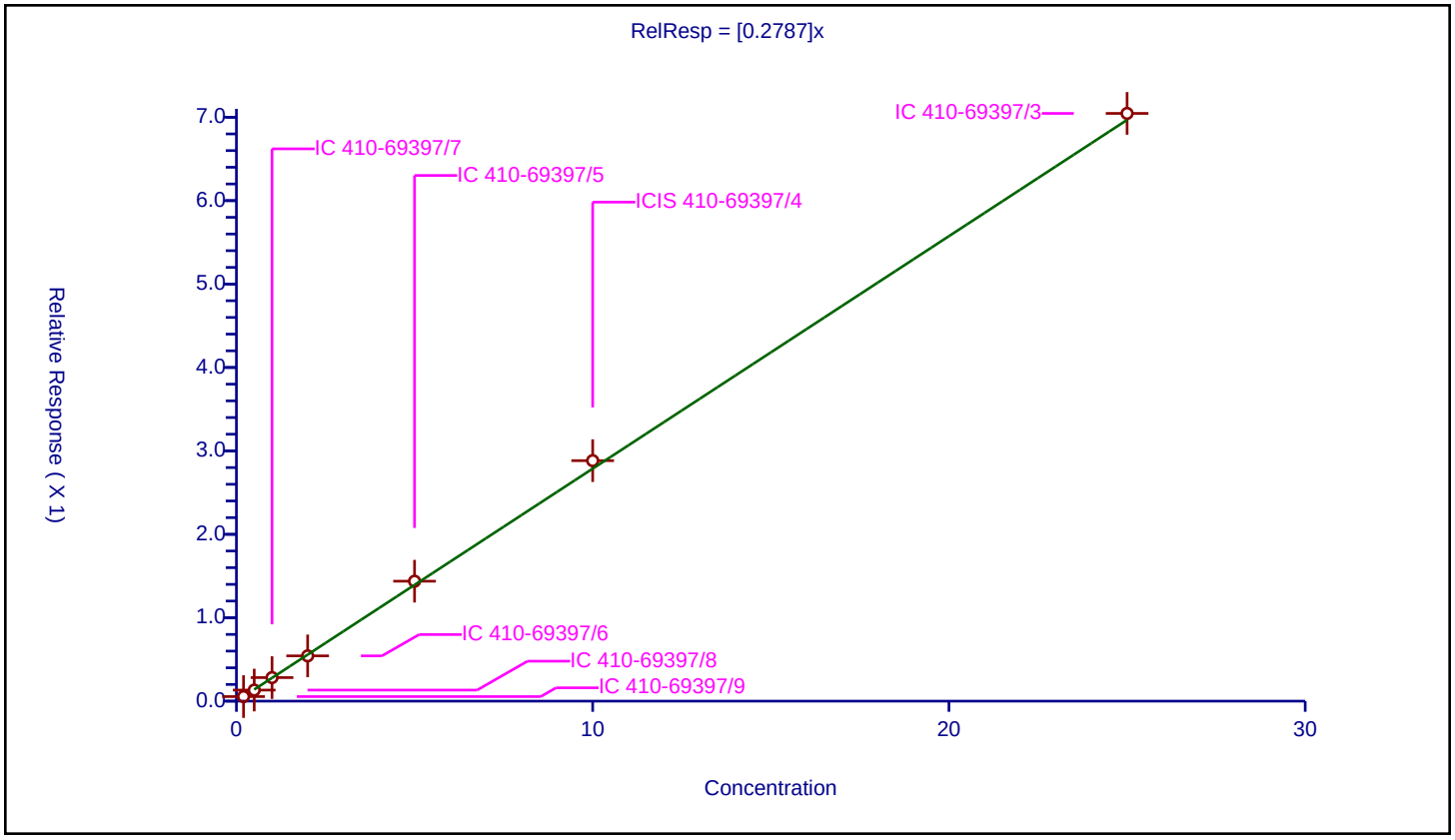
Curve Coefficients

Intercept:	0
Slope:	0.2787

Error Coefficients

Standard Error:	500000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.054846	10.0	1473403.0	0.274229	Y
2	IC 410-69397/8	0.5	0.132623	10.0	1487373.0	0.265246	Y
3	IC 410-69397/7	1.0	0.282478	10.0	1484400.0	0.282478	Y
4	IC 410-69397/6	2.0	0.542682	10.0	1481807.0	0.271341	Y
5	IC 410-69397/5	5.0	1.437815	10.0	1486999.0	0.287563	Y
6	ICIS 410-69397/4	10.0	2.883052	10.0	1570516.0	0.288305	Y
7	IC 410-69397/3	25.0	7.045642	10.0	1579118.0	0.281826	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

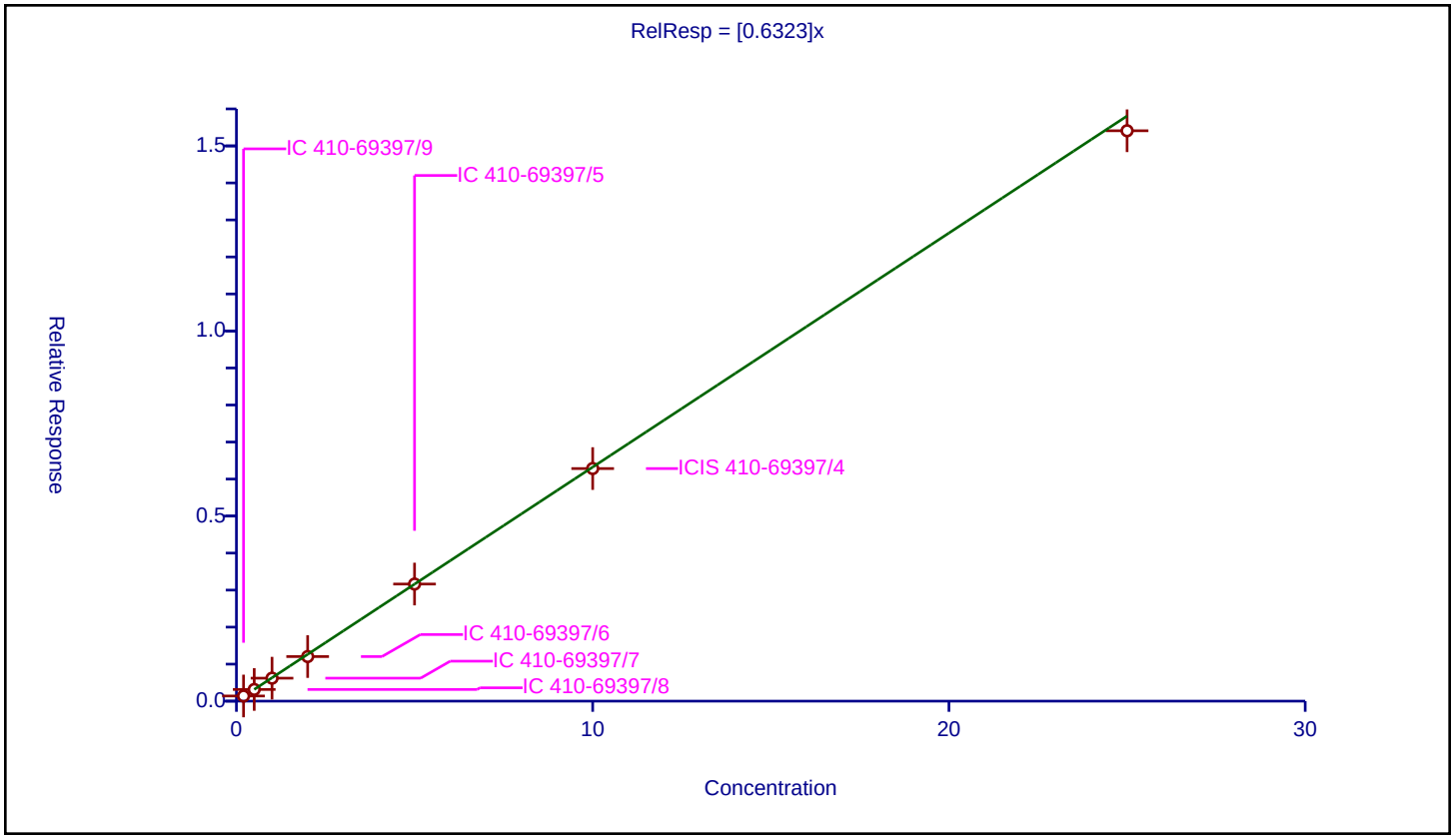
Curve Coefficients

Intercept:	0
Slope:	0.6323

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.138869	10.0	1473403.0	0.694345	Y
2	IC 410-69397/8	0.5	0.315704	10.0	1487373.0	0.631409	Y
3	IC 410-69397/7	1.0	0.620944	10.0	1484400.0	0.620944	Y
4	IC 410-69397/6	2.0	1.204482	10.0	1481807.0	0.602241	Y
5	IC 410-69397/5	5.0	3.16325	10.0	1486999.0	0.63265	Y
6	ICIS 410-69397/4	10.0	6.283011	10.0	1570516.0	0.628301	Y
7	IC 410-69397/3	25.0	15.409456	10.0	1579118.0	0.616378	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

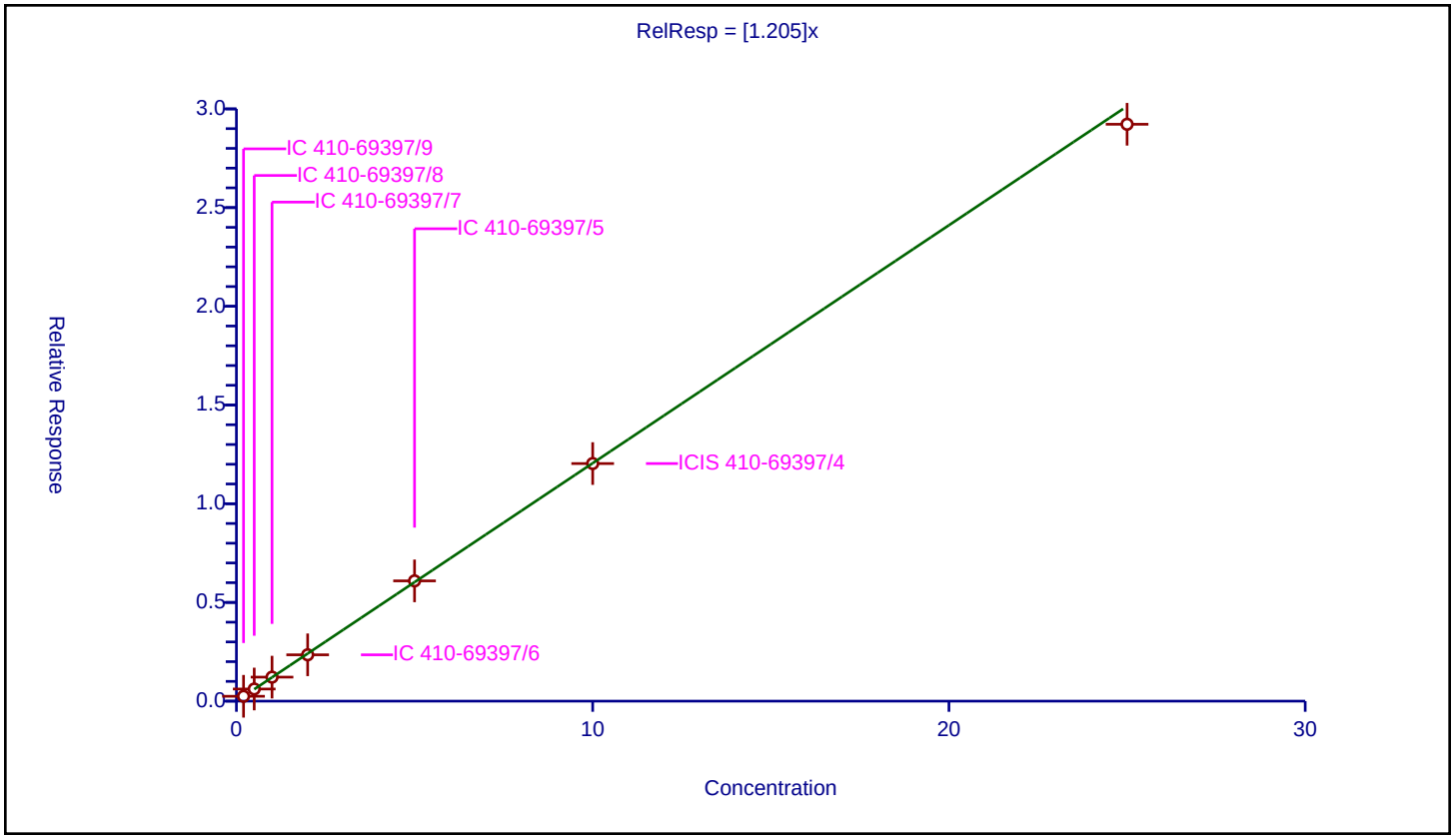
Curve Coefficients

Intercept:	0
Slope:	1.205

Error Coefficients

Standard Error:	2080000
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.245622	10.0	1473403.0	1.228109	Y
2	IC 410-69397/8	0.5	0.614782	10.0	1487373.0	1.229564	Y
3	IC 410-69397/7	1.0	1.21573	10.0	1484400.0	1.21573	Y
4	IC 410-69397/6	2.0	2.347107	10.0	1481807.0	1.173554	Y
5	IC 410-69397/5	5.0	6.092055	10.0	1486999.0	1.218411	Y
6	ICIS 410-69397/4	10.0	12.034567	10.0	1570516.0	1.203457	Y
7	IC 410-69397/3	25.0	29.221268	10.0	1579118.0	1.168851	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

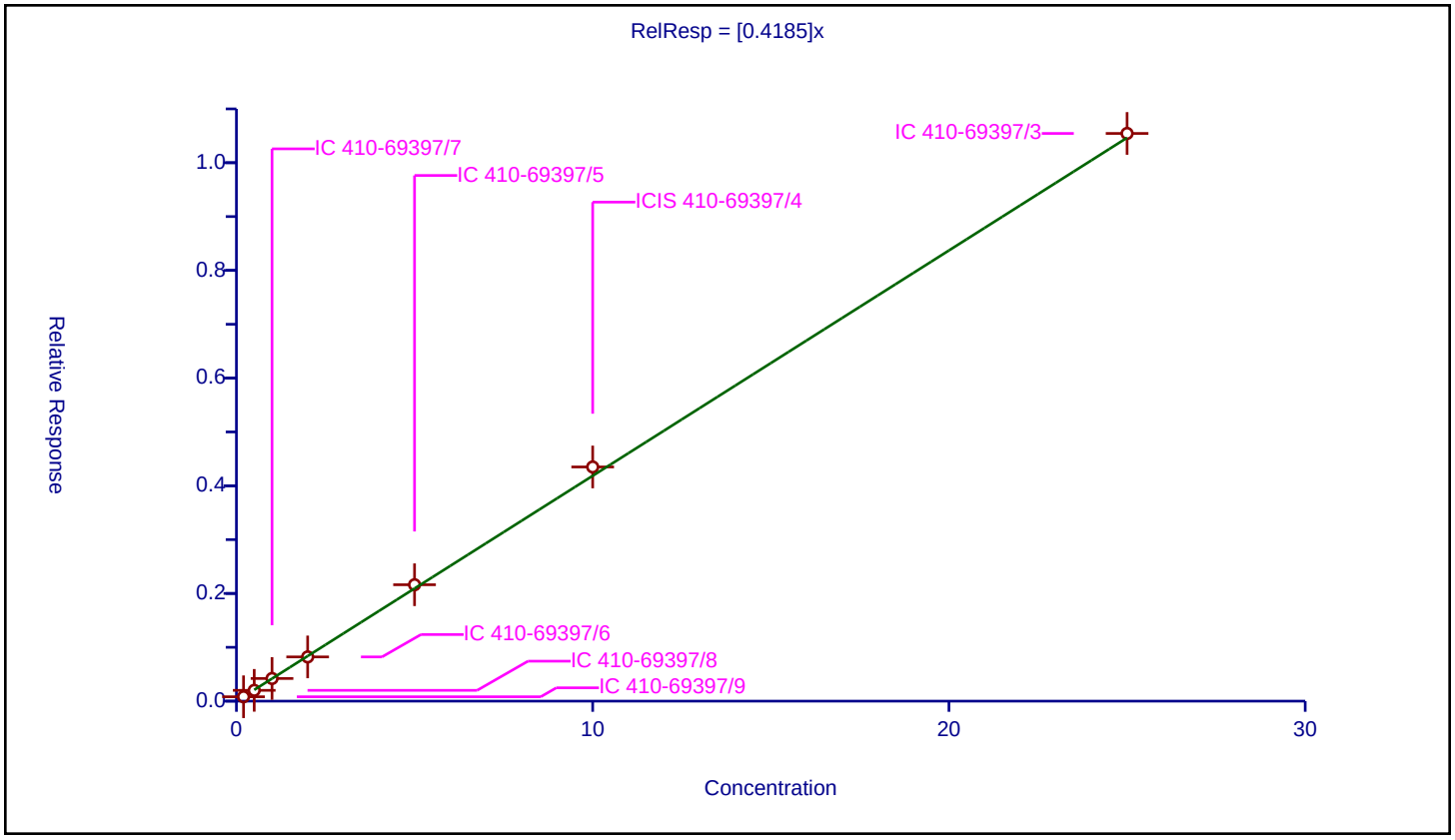
Curve Coefficients

Intercept:	0
Slope:	0.4185

Error Coefficients

Standard Error:	749000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.0816	10.0	1473403.0	0.408001	Y
2	IC 410-69397/8	0.5	0.200595	10.0	1487373.0	0.401191	Y
3	IC 410-69397/7	1.0	0.420742	10.0	1484400.0	0.420742	Y
4	IC 410-69397/6	2.0	0.821517	10.0	1481807.0	0.410759	Y
5	IC 410-69397/5	5.0	2.161911	10.0	1486999.0	0.432382	Y
6	ICIS 410-69397/4	10.0	4.349558	10.0	1570516.0	0.434956	Y
7	IC 410-69397/3	25.0	10.544025	10.0	1579118.0	0.421761	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

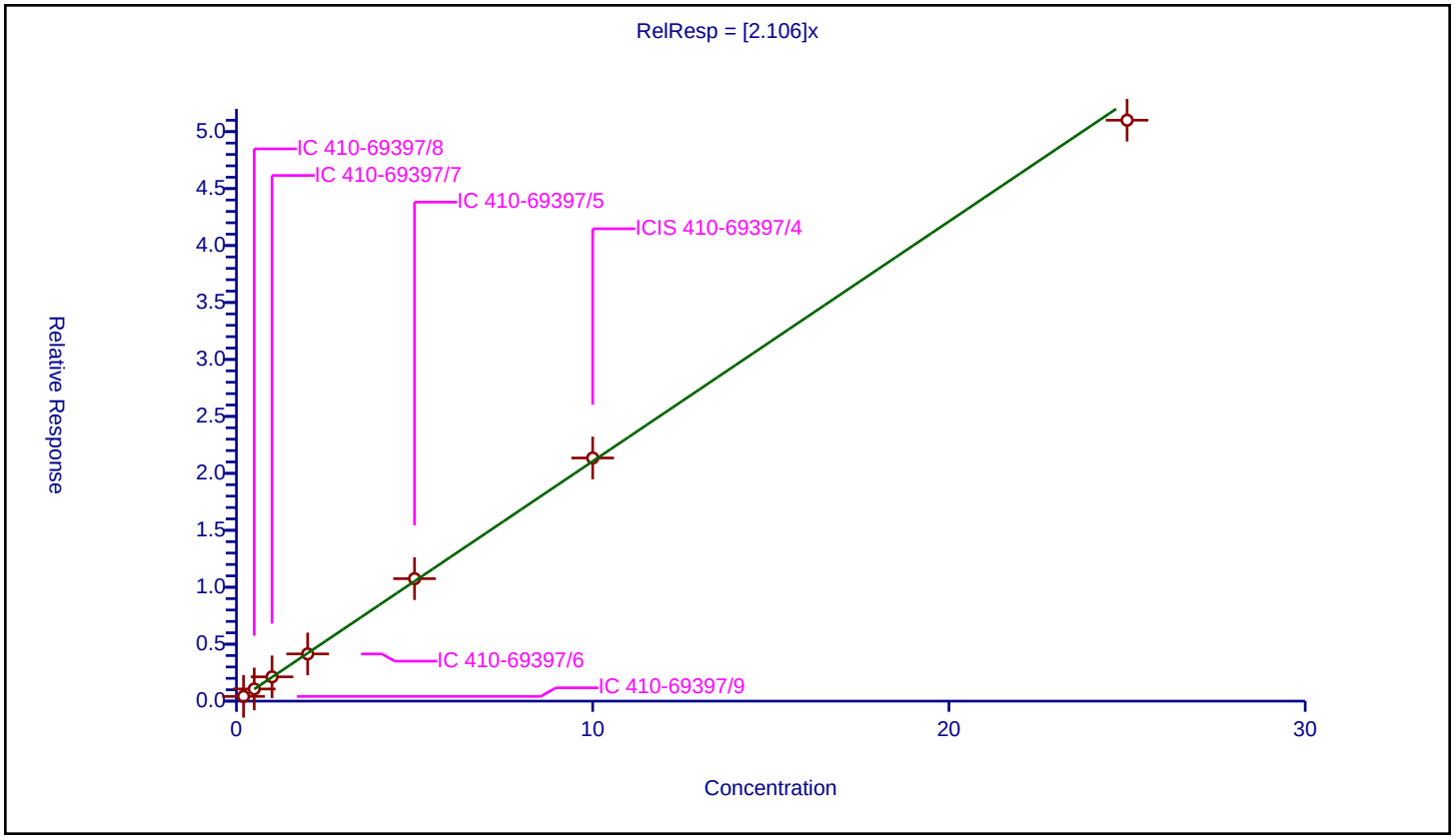
Curve Coefficients

Intercept:	0
Slope:	2.106

Error Coefficients

Standard Error:	3630000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.415365	10.0	1473403.0	2.076825	Y
2	IC 410-69397/8	0.5	1.066572	10.0	1487373.0	2.133143	Y
3	IC 410-69397/7	1.0	2.132417	10.0	1484400.0	2.132417	Y
4	IC 410-69397/6	2.0	4.145925	10.0	1481807.0	2.072962	Y
5	IC 410-69397/5	5.0	10.752738	10.0	1486999.0	2.150548	Y
6	ICIS 410-69397/4	10.0	21.348799	10.0	1570516.0	2.13488	Y
7	IC 410-69397/3	25.0	51.008443	10.0	1579118.0	2.040338	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

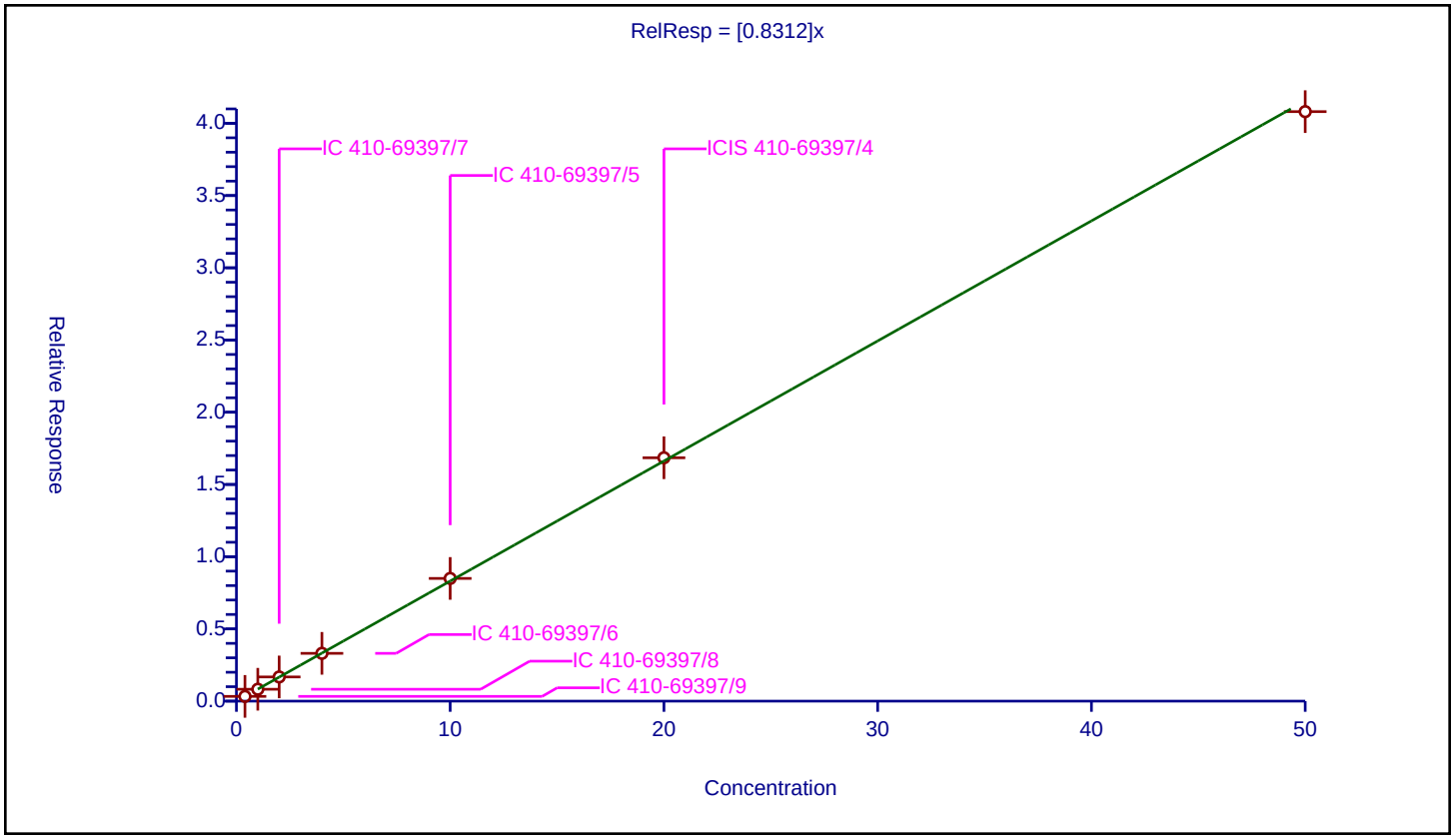
Curve Coefficients

Intercept:	0
Slope:	0.8312

Error Coefficients

Standard Error:	2900000
Relative Standard Error:	1.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.4	0.328817	10.0	1473403.0	0.822043	Y
2	IC 410-69397/8	1.0	0.82368	10.0	1487373.0	0.82368	Y
3	IC 410-69397/7	2.0	1.674333	10.0	1484400.0	0.837167	Y
4	IC 410-69397/6	4.0	3.309108	10.0	1481807.0	0.827277	Y
5	IC 410-69397/5	10.0	8.495164	10.0	1486999.0	0.849516	Y
6	ICIS 410-69397/4	20.0	16.848526	10.0	1570516.0	0.842426	Y
7	IC 410-69397/3	50.0	40.810864	10.0	1579118.0	0.816217	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

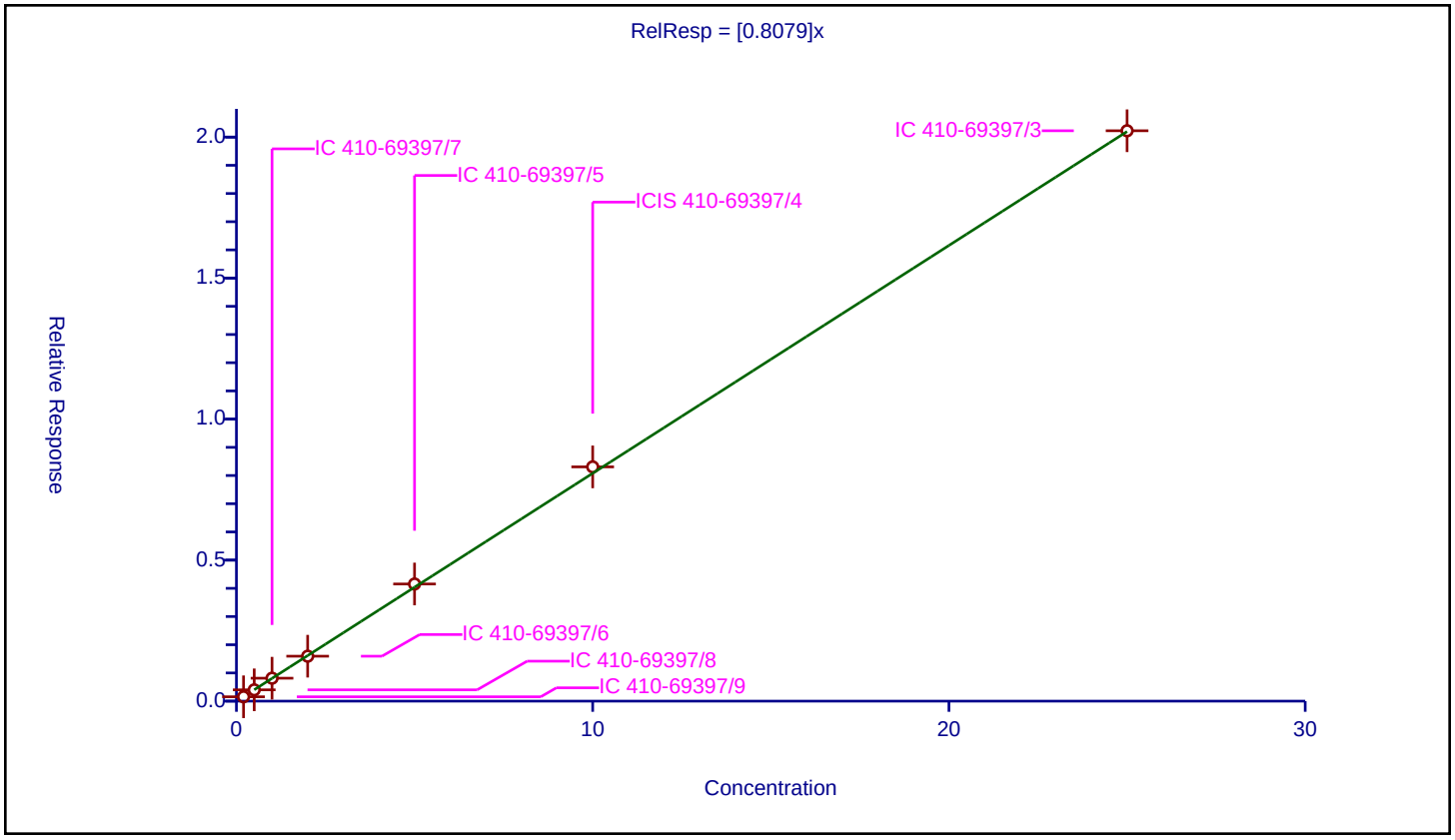
Curve Coefficients

Intercept:	0
Slope:	0.8079

Error Coefficients

Standard Error:	1440000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.154527	10.0	1473403.0	0.772633	Y
2	IC 410-69397/8	0.5	0.40076	10.0	1487373.0	0.801521	Y
3	IC 410-69397/7	1.0	0.813662	10.0	1484400.0	0.813662	Y
4	IC 410-69397/6	2.0	1.593973	10.0	1481807.0	0.796986	Y
5	IC 410-69397/5	5.0	4.154327	10.0	1486999.0	0.830865	Y
6	ICIS 410-69397/4	10.0	8.306595	10.0	1570516.0	0.830659	Y
7	IC 410-69397/3	25.0	20.224556	10.0	1579118.0	0.808982	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

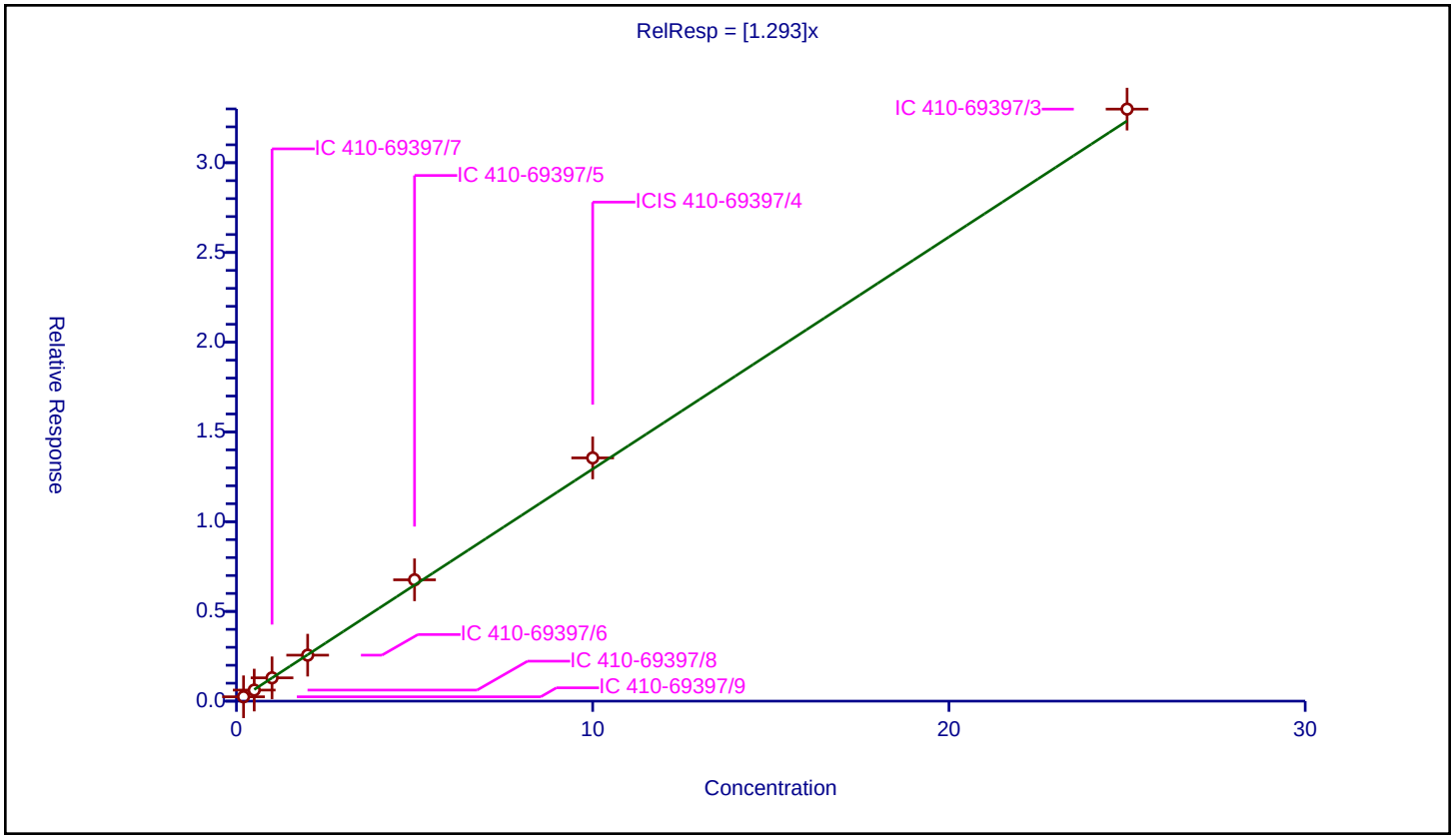
Curve Coefficients

Intercept:	0
Slope:	1.293

Error Coefficients

Standard Error:	2340000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.242432	10.0	1473403.0	1.21216	Y
2	IC 410-69397/8	0.5	0.616893	10.0	1487373.0	1.233786	Y
3	IC 410-69397/7	1.0	1.299212	10.0	1484400.0	1.299212	Y
4	IC 410-69397/6	2.0	2.562176	10.0	1481807.0	1.281088	Y
5	IC 410-69397/5	5.0	6.760421	10.0	1486999.0	1.352084	Y
6	ICIS 410-69397/4	10.0	13.553132	10.0	1570516.0	1.355313	Y
7	IC 410-69397/3	25.0	32.987579	10.0	1579118.0	1.319503	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

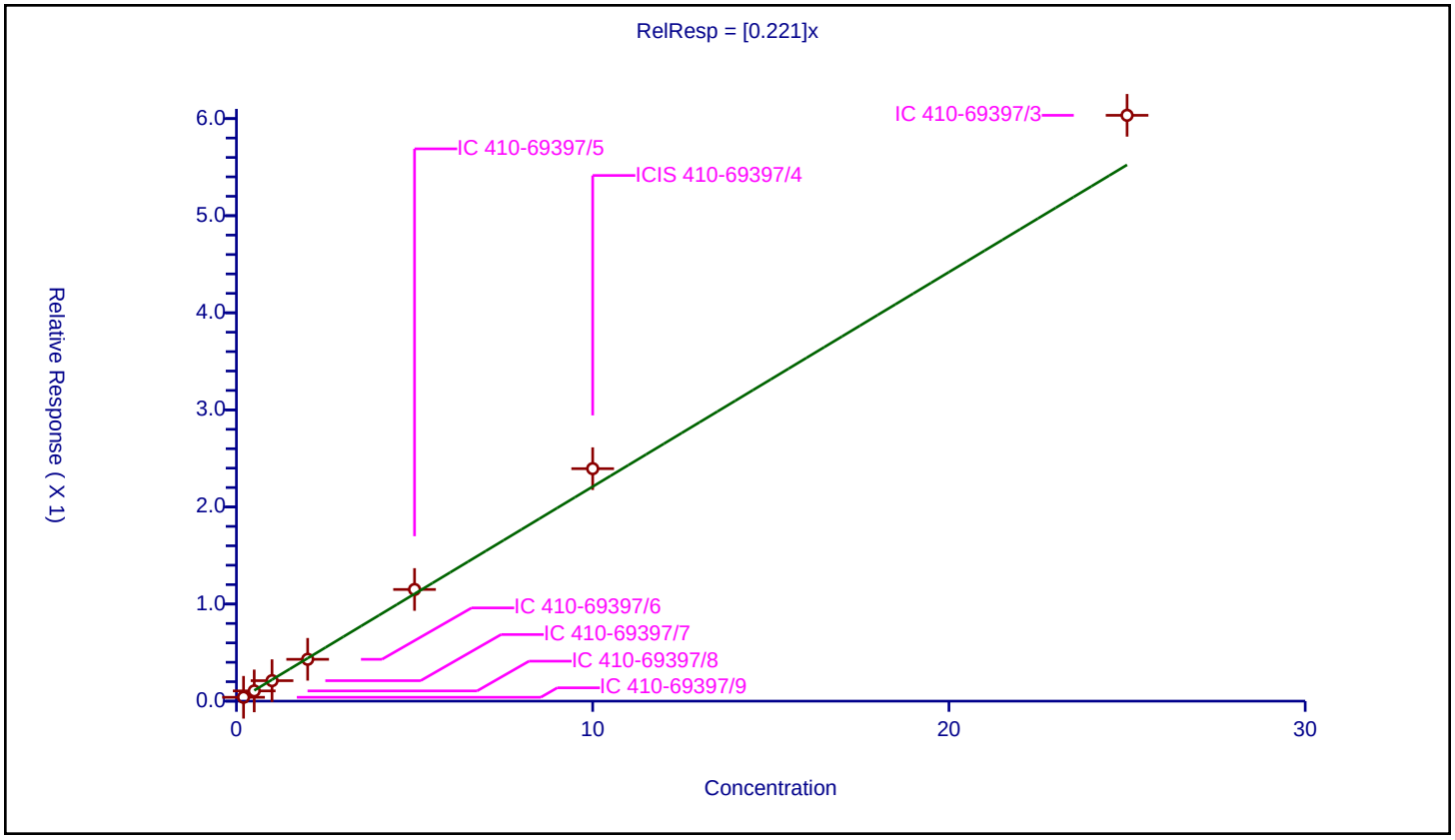
Curve Coefficients

Intercept:	0
Slope:	0.221

Error Coefficients

Standard Error:	425000
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 410-69397/9	0.2	0.039758	10.0	1473403.0	0.198792	Y
2	IC 410-69397/8	0.5	0.105427	10.0	1487373.0	0.210855	Y
3	IC 410-69397/7	1.0	0.210738	10.0	1484400.0	0.210738	Y
4	IC 410-69397/6	2.0	0.430933	10.0	1481807.0	0.215467	Y
5	IC 410-69397/5	5.0	1.150169	10.0	1486999.0	0.230034	Y
6	ICIS 410-69397/4	10.0	2.394455	10.0	1570516.0	0.239446	Y
7	IC 410-69397/3	25.0	6.034014	10.0	1579118.0	0.241361	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

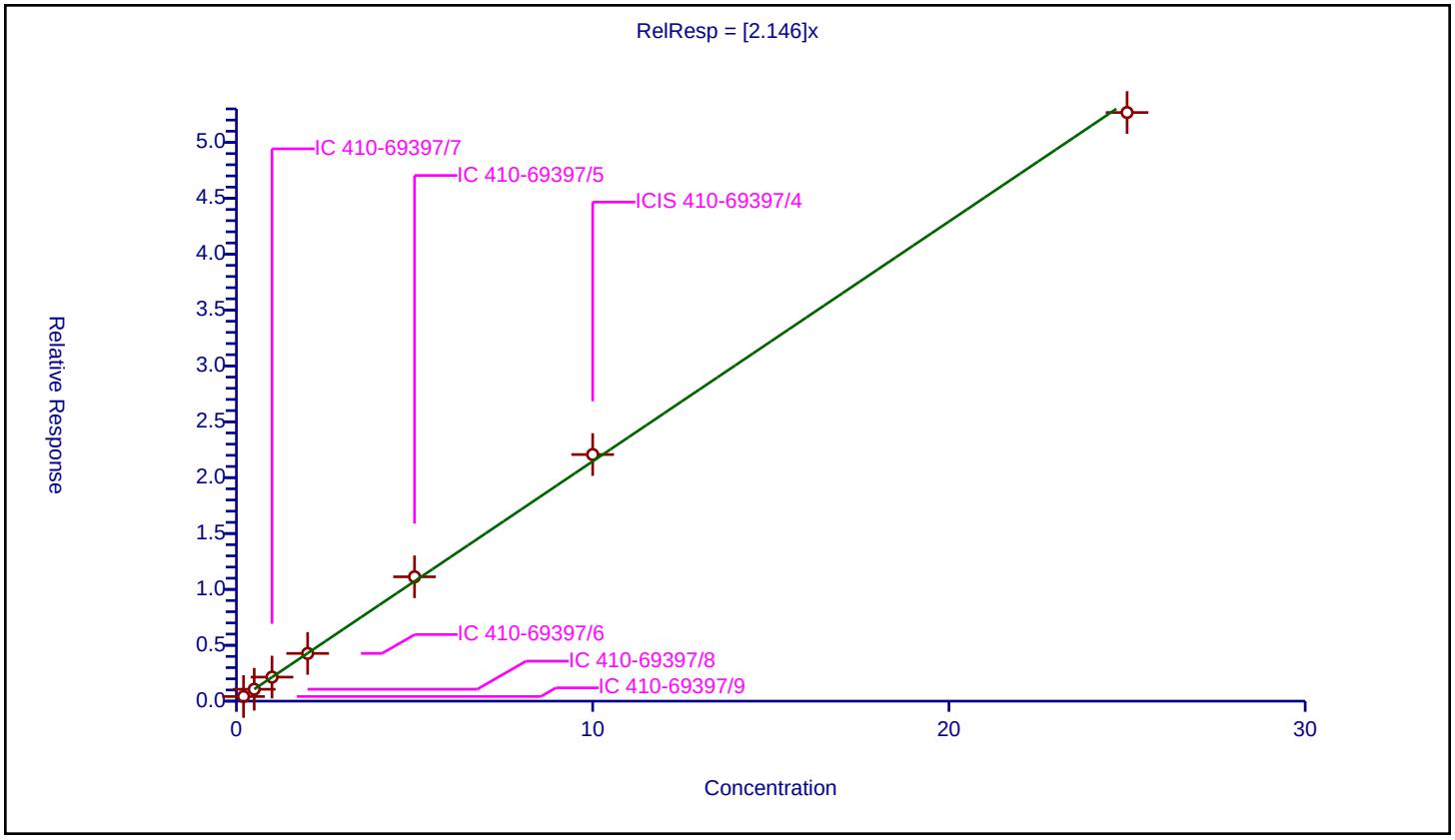
Curve Coefficients

Intercept:	0
Slope:	2.146

Error Coefficients

Standard Error:	3750000
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 410-69397/9	0.2	0.413254	10.0	1473403.0	2.066271	Y
2	IC 410-69397/8	0.5	1.064615	10.0	1487373.0	2.129231	Y
3	IC 410-69397/7	1.0	2.151543	10.0	1484400.0	2.151543	Y
4	IC 410-69397/6	2.0	4.270786	10.0	1481807.0	2.135393	Y
5	IC 410-69397/5	5.0	11.126867	10.0	1486999.0	2.225373	Y
6	ICIS 410-69397/4	10.0	22.066238	10.0	1570516.0	2.206624	Y
7	IC 410-69397/3	25.0	52.675791	10.0	1579118.0	2.107032	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

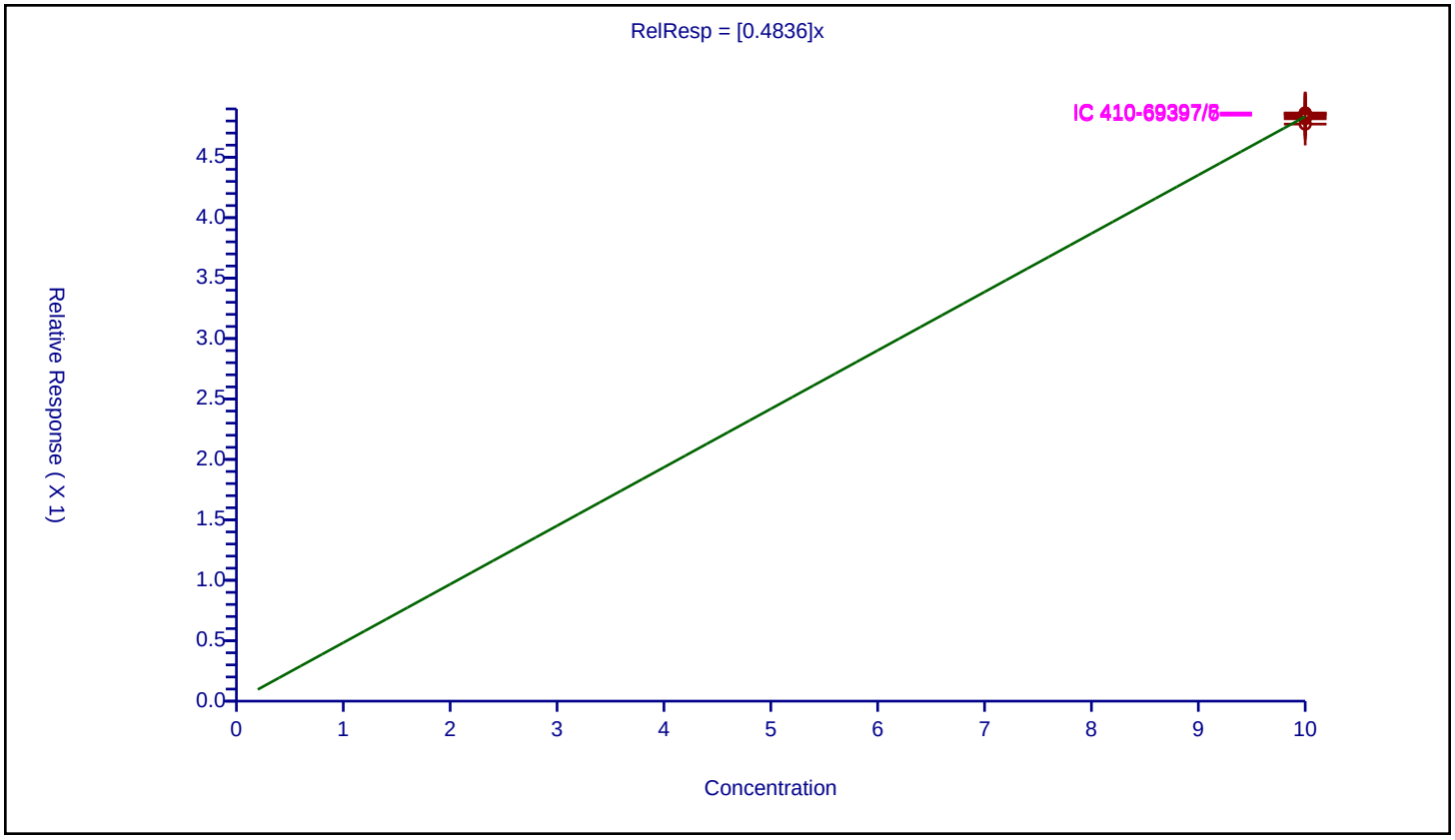
Curve Coefficients

Intercept:	0
Slope:	0.4836

Error Coefficients

Standard Error:	788000
Relative Standard Error:	0.7
Correlation Coefficient:	0.00000000000000000000
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/3	10.0	4.818164	10.0	1579118.0	0.481816	Y
2	ICIS 410-69397/4	10.0	4.774119	10.0	1570516.0	0.477412	Y
3	IC 410-69397/5	10.0	4.863749	10.0	1486999.0	0.486375	Y
4	IC 410-69397/6	10.0	4.848661	10.0	1481807.0	0.484866	Y
5	IC 410-69397/7	10.0	4.851954	10.0	1484400.0	0.485195	Y
6	IC 410-69397/8	10.0	4.866318	10.0	1487373.0	0.486632	Y
7	IC 410-69397/9	10.0	4.831034	10.0	1473403.0	0.483103	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

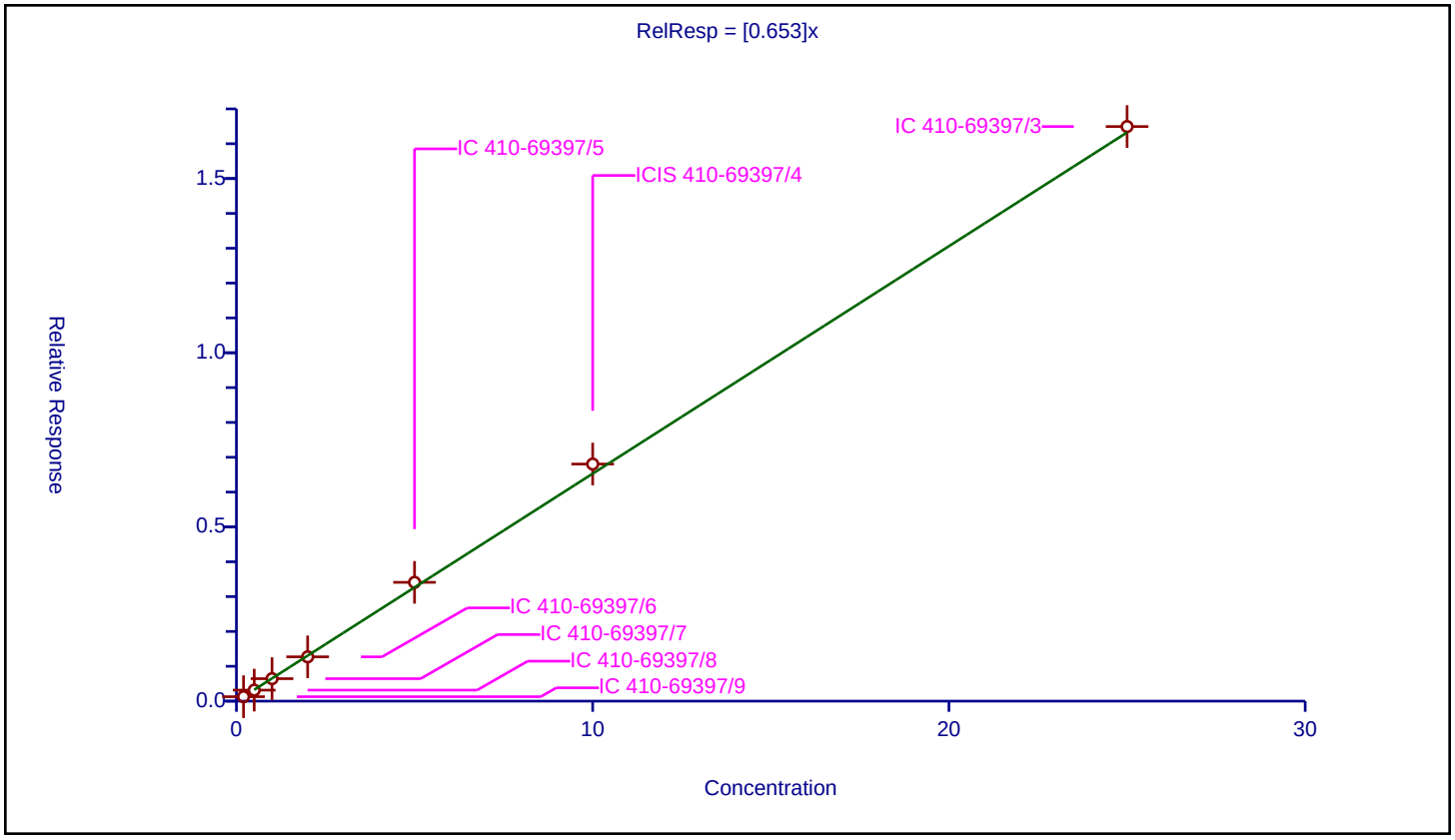
Curve Coefficients

Intercept:	0
Slope:	0.653

Error Coefficients

Standard Error:	666000
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 410-69397/9	0.2	0.127173	10.0	848529.0	0.635865	Y
2	IC 410-69397/8	0.5	0.316039	10.0	857933.0	0.632077	Y
3	IC 410-69397/7	1.0	0.644739	10.0	843985.0	0.644739	Y
4	IC 410-69397/6	2.0	1.271723	10.0	848463.0	0.635862	Y
5	IC 410-69397/5	5.0	3.4102	10.0	845833.0	0.68204	Y
6	ICIS 410-69397/4	10.0	6.805371	10.0	891775.0	0.680537	Y
7	IC 410-69397/3	25.0	16.493035	10.0	898877.0	0.659721	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

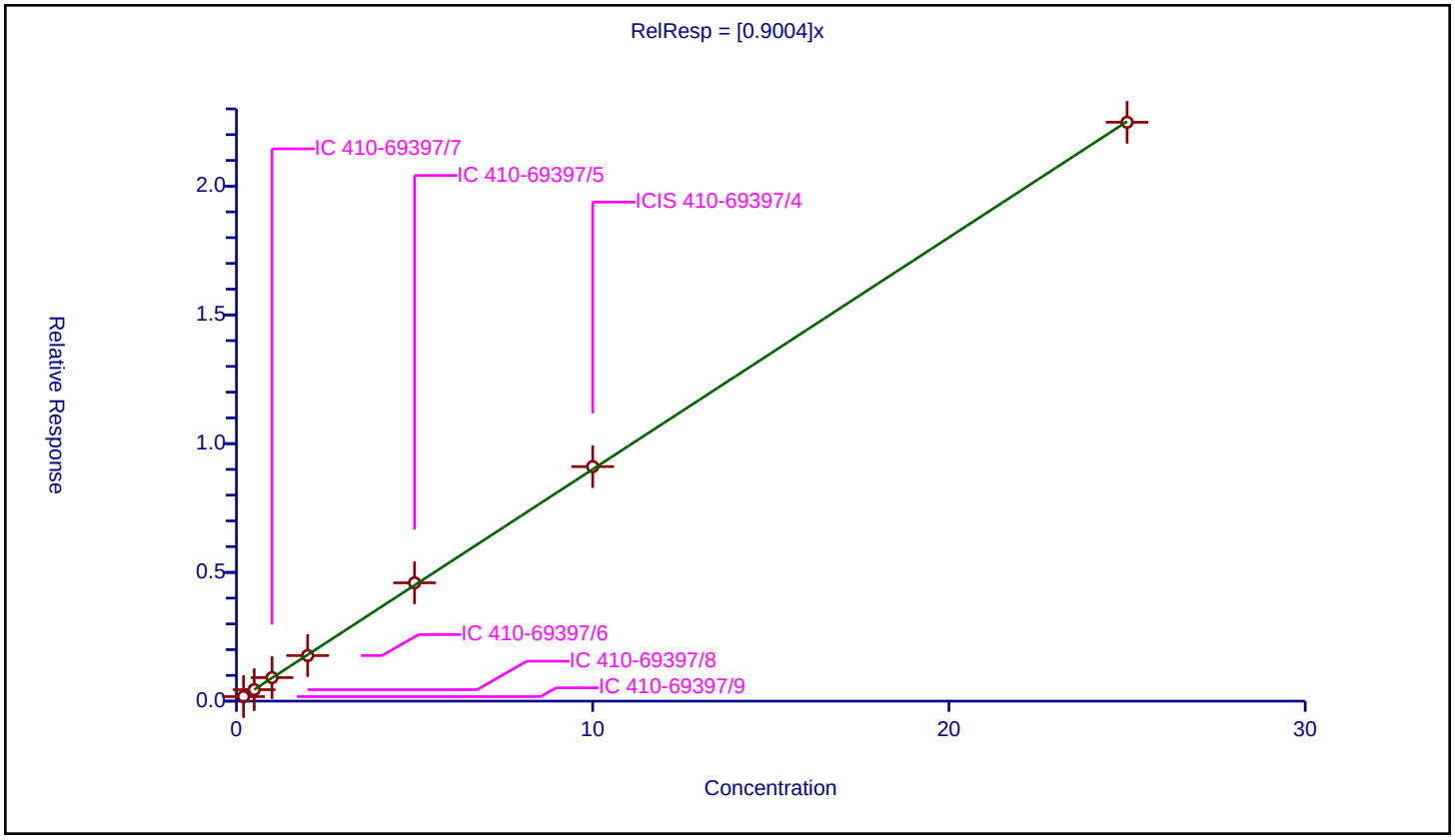
Curve Coefficients

Intercept:	0
Slope:	0.9004

Error Coefficients

Standard Error:	906000
Relative Standard Error:	1.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.1768	10.0	848529.0	0.884	Y
2	IC 410-69397/8	0.5	0.445886	10.0	857933.0	0.891771	Y
3	IC 410-69397/7	1.0	0.913618	10.0	843985.0	0.913618	Y
4	IC 410-69397/6	2.0	1.769517	10.0	848463.0	0.884759	Y
5	IC 410-69397/5	5.0	4.594619	10.0	845833.0	0.918924	Y
6	ICIS 410-69397/4	10.0	9.107488	10.0	891775.0	0.910749	Y
7	IC 410-69397/3	25.0	22.480762	10.0	898877.0	0.89923	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

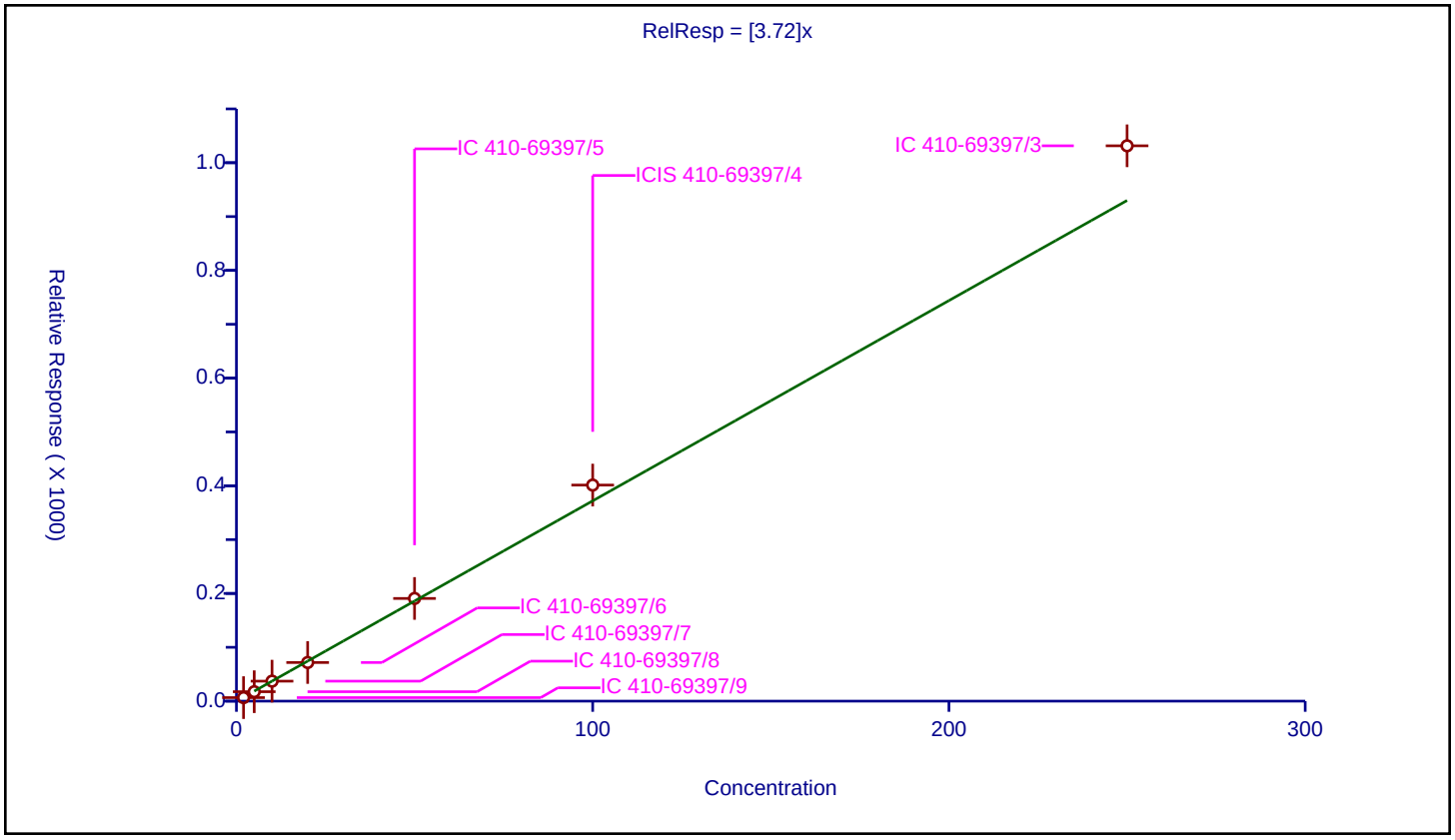
Curve Coefficients

Intercept:	0
Slope:	3.72

Error Coefficients

Standard Error:	1550000
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 410-69397/9	2.0	6.544195	50.0	157506.0	3.272098	Y
2	IC 410-69397/8	5.0	17.559807	50.0	156713.0	3.511961	Y
3	IC 410-69397/7	10.0	37.140283	50.0	155400.0	3.714028	Y
4	IC 410-69397/6	20.0	71.741953	50.0	164063.0	3.587098	Y
5	IC 410-69397/5	50.0	190.736605	50.0	167919.0	3.814732	Y
6	ICIS 410-69397/4	100.0	401.295242	50.0	174562.0	4.012952	Y
7	IC 410-69397/3	250.0	1031.421235	50.0	168044.0	4.125685	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

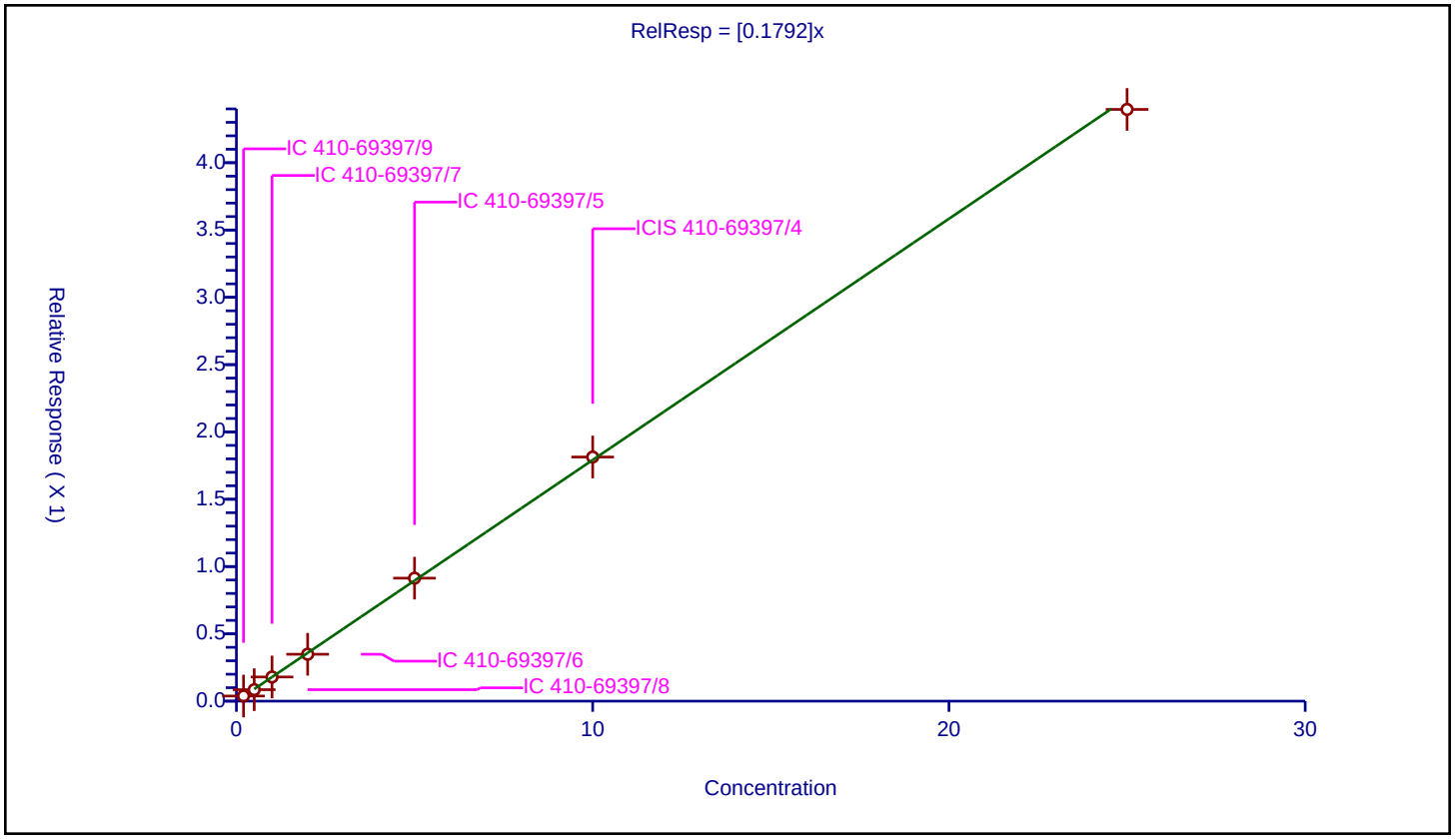
Curve Coefficients

Intercept:	0
Slope:	0.1792

Error Coefficients

Standard Error:	178000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.038031	10.0	848529.0	0.190153	Y
2	IC 410-69397/8	0.5	0.085158	10.0	857933.0	0.170316	Y
3	IC 410-69397/7	1.0	0.1796	10.0	843985.0	0.1796	Y
4	IC 410-69397/6	2.0	0.348454	10.0	848463.0	0.174227	Y
5	IC 410-69397/5	5.0	0.913703	10.0	845833.0	0.182741	Y
6	ICIS 410-69397/4	10.0	1.813507	10.0	891775.0	0.181351	Y
7	IC 410-69397/3	25.0	4.396052	10.0	898877.0	0.175842	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

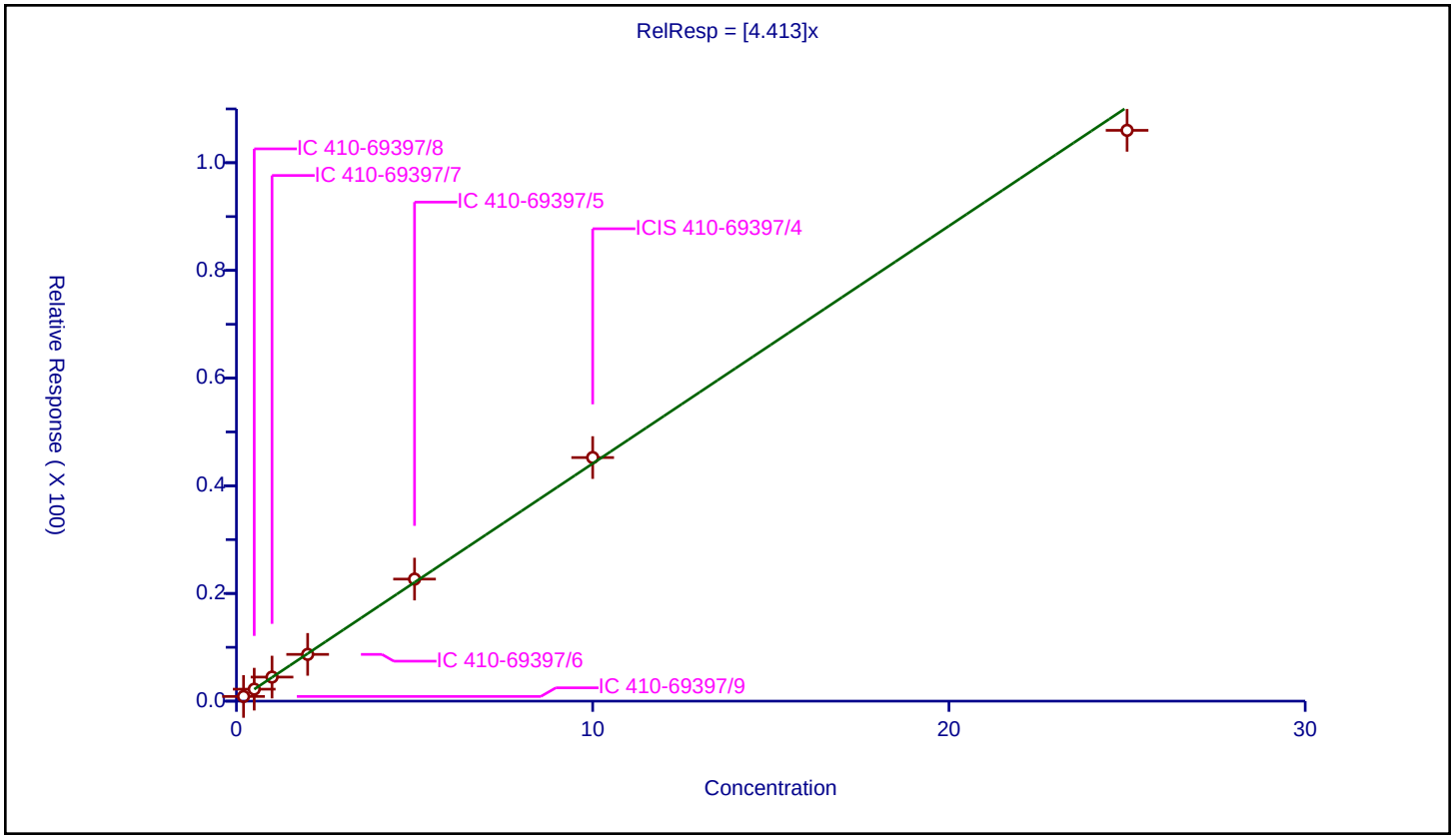
Curve Coefficients

Intercept:	0
Slope:	4.413

Error Coefficients

Standard Error:	4310000
Relative Standard Error:	2.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.866782	10.0	848529.0	4.333912	Y
2	IC 410-69397/8	0.5	2.222376	10.0	857933.0	4.444753	Y
3	IC 410-69397/7	1.0	4.470624	10.0	843985.0	4.470624	Y
4	IC 410-69397/6	2.0	8.683702	10.0	848463.0	4.341851	Y
5	IC 410-69397/5	5.0	22.667702	10.0	845833.0	4.53354	Y
6	ICIS 410-69397/4	10.0	45.240481	10.0	891775.0	4.524048	Y
7	IC 410-69397/3	25.0	106.015773	10.0	898877.0	4.240631	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

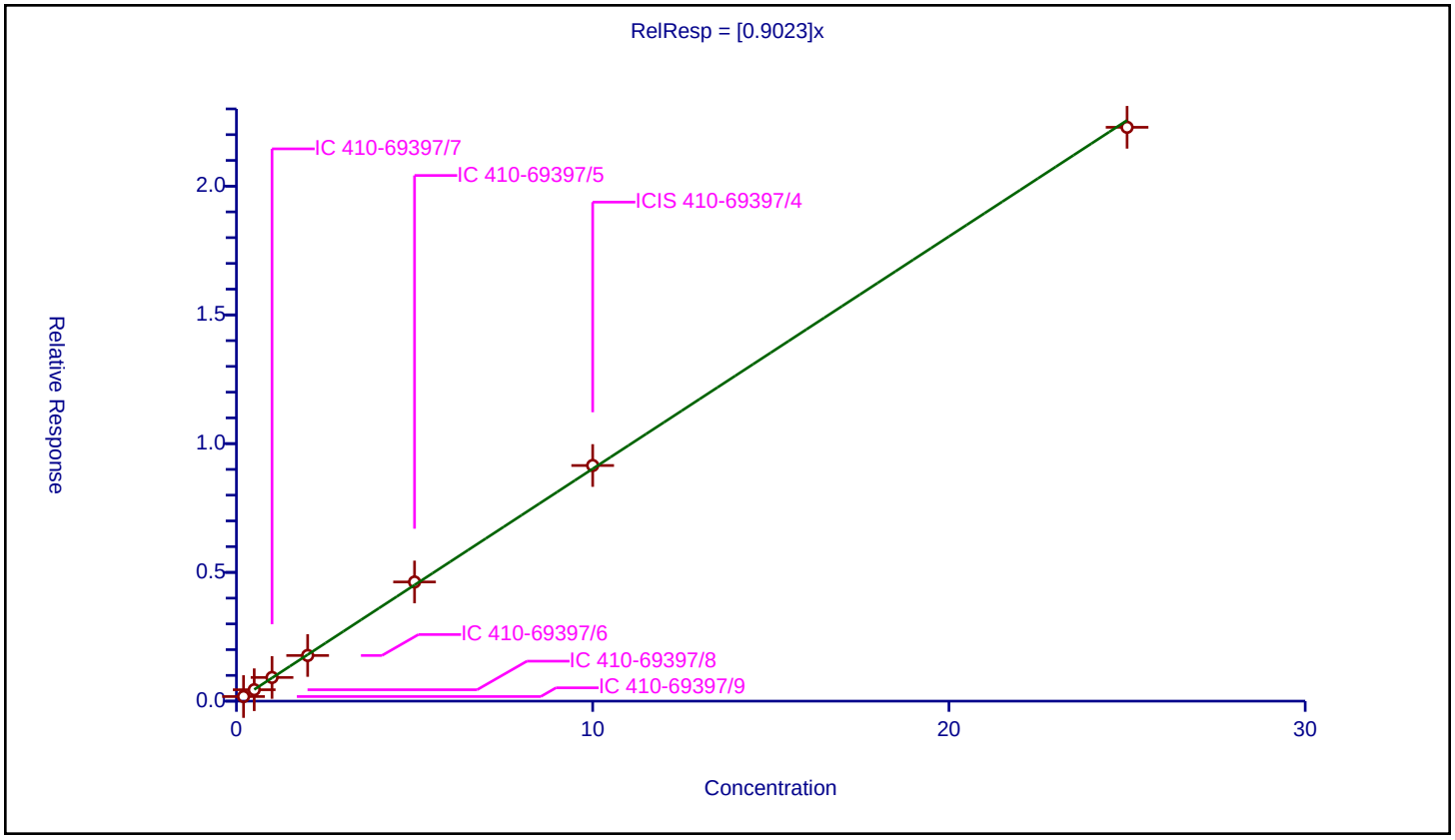
Curve Coefficients

Intercept:	0
Slope:	0.9023

Error Coefficients

Standard Error:	900000
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.178014	10.0	848529.0	0.89007	Y
2	IC 410-69397/8	0.5	0.443589	10.0	857933.0	0.887179	Y
3	IC 410-69397/7	1.0	0.919696	10.0	843985.0	0.919696	Y
4	IC 410-69397/6	2.0	1.773572	10.0	848463.0	0.886786	Y
5	IC 410-69397/5	5.0	4.627828	10.0	845833.0	0.925566	Y
6	ICIS 410-69397/4	10.0	9.151759	10.0	891775.0	0.915176	Y
7	IC 410-69397/3	25.0	22.285162	10.0	898877.0	0.891406	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

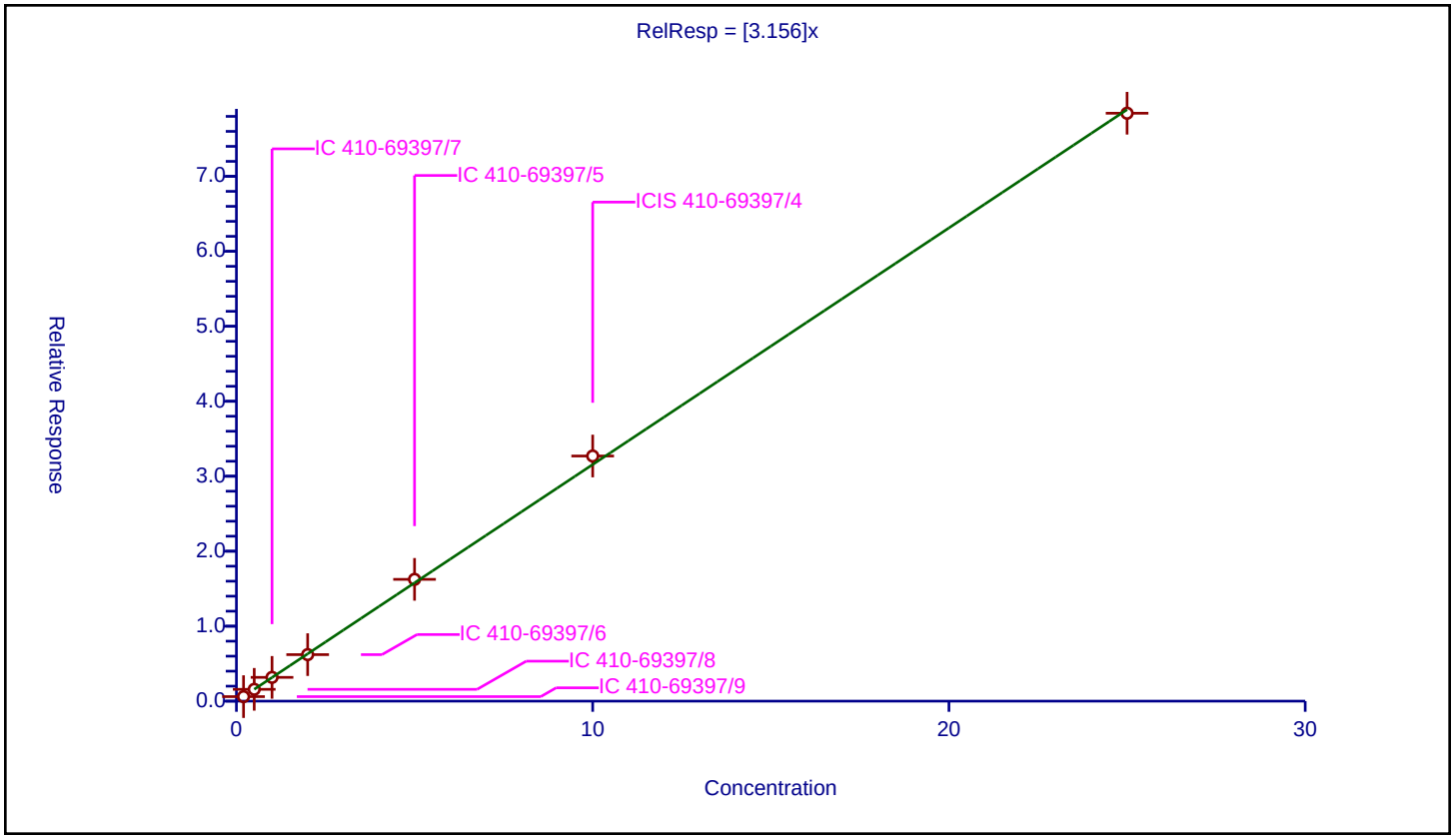
Curve Coefficients

Intercept:	0
Slope:	3.156

Error Coefficients

Standard Error:	3170000
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 410-69397/9	0.2	0.602042	10.0	848529.0	3.010209	Y
2	IC 410-69397/8	0.5	1.576813	10.0	857933.0	3.153626	Y
3	IC 410-69397/7	1.0	3.171632	10.0	843985.0	3.171632	Y
4	IC 410-69397/6	2.0	6.203523	10.0	848463.0	3.101762	Y
5	IC 410-69397/5	5.0	16.246434	10.0	845833.0	3.249287	Y
6	ICIS 410-69397/4	10.0	32.697306	10.0	891775.0	3.269731	Y
7	IC 410-69397/3	25.0	78.421108	10.0	898877.0	3.136844	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

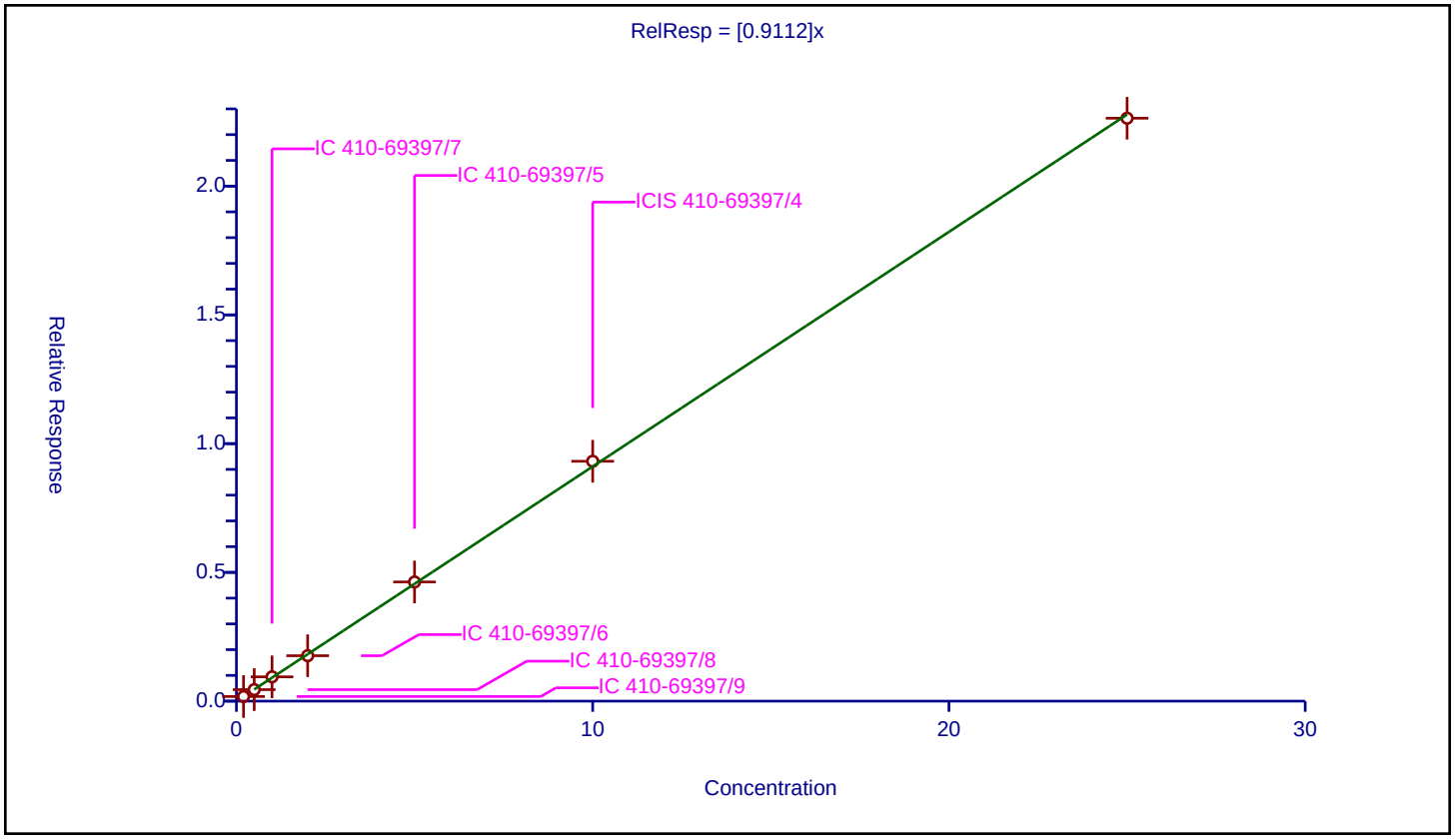
Curve Coefficients

Intercept:	0
Slope:	0.9112

Error Coefficients

Standard Error:	914000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.179063	10.0	848529.0	0.895314	Y
2	IC 410-69397/8	0.5	0.447378	10.0	857933.0	0.894755	Y
3	IC 410-69397/7	1.0	0.943642	10.0	843985.0	0.943642	Y
4	IC 410-69397/6	2.0	1.763766	10.0	848463.0	0.881883	Y
5	IC 410-69397/5	5.0	4.628065	10.0	845833.0	0.925613	Y
6	ICIS 410-69397/4	10.0	9.316218	10.0	891775.0	0.931622	Y
7	IC 410-69397/3	25.0	22.63758	10.0	898877.0	0.905503	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

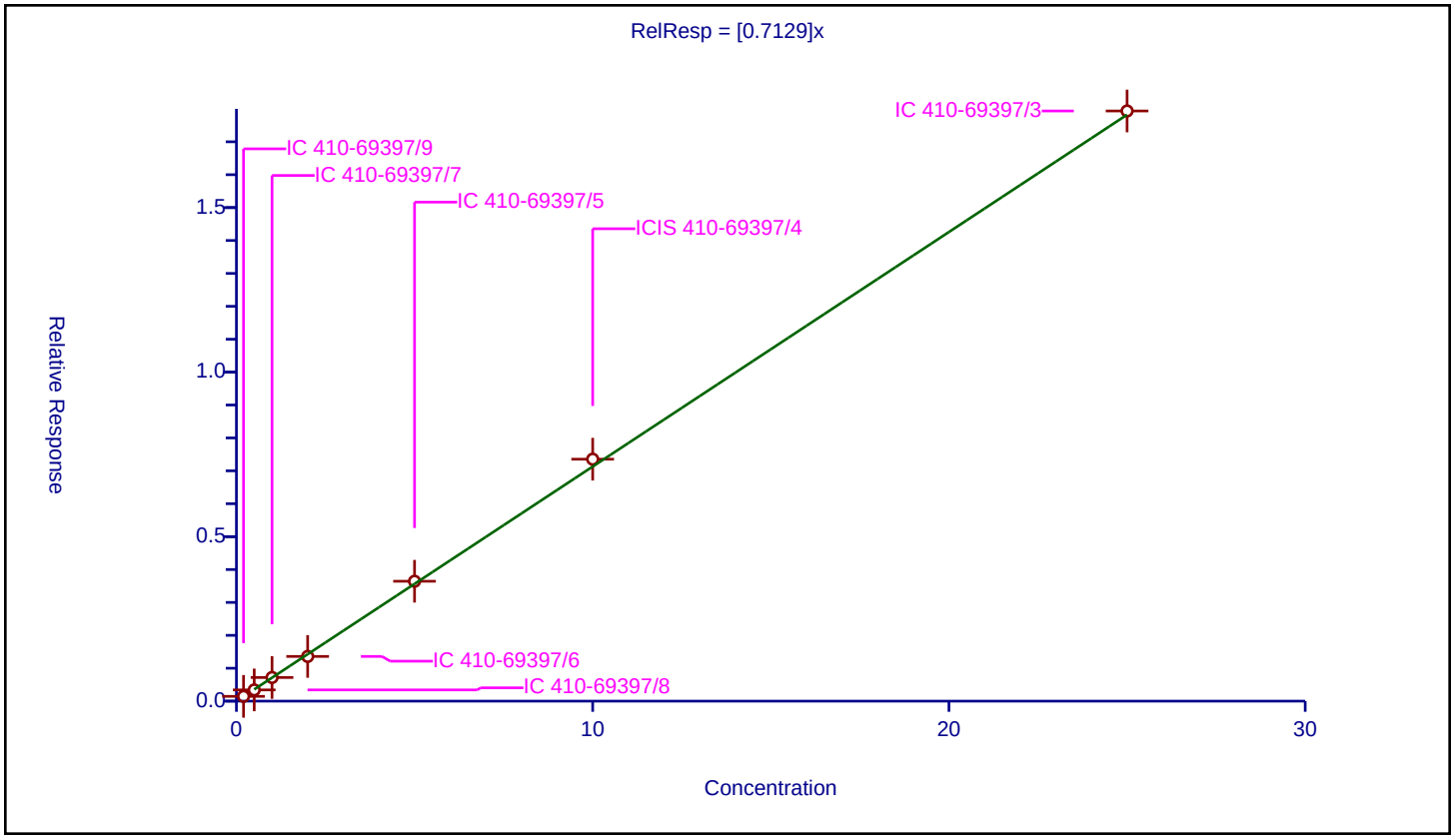
Curve Coefficients

Intercept:	0
Slope:	0.7129

Error Coefficients

Standard Error:	724000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.145687	10.0	848529.0	0.728437	Y
2	IC 410-69397/8	0.5	0.341309	10.0	857933.0	0.682617	Y
3	IC 410-69397/7	1.0	0.718449	10.0	843985.0	0.718449	Y
4	IC 410-69397/6	2.0	1.358374	10.0	848463.0	0.679187	Y
5	IC 410-69397/5	5.0	3.644124	10.0	845833.0	0.728825	Y
6	ICIS 410-69397/4	10.0	7.354007	10.0	891775.0	0.735401	Y
7	IC 410-69397/3	25.0	17.937059	10.0	898877.0	0.717482	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

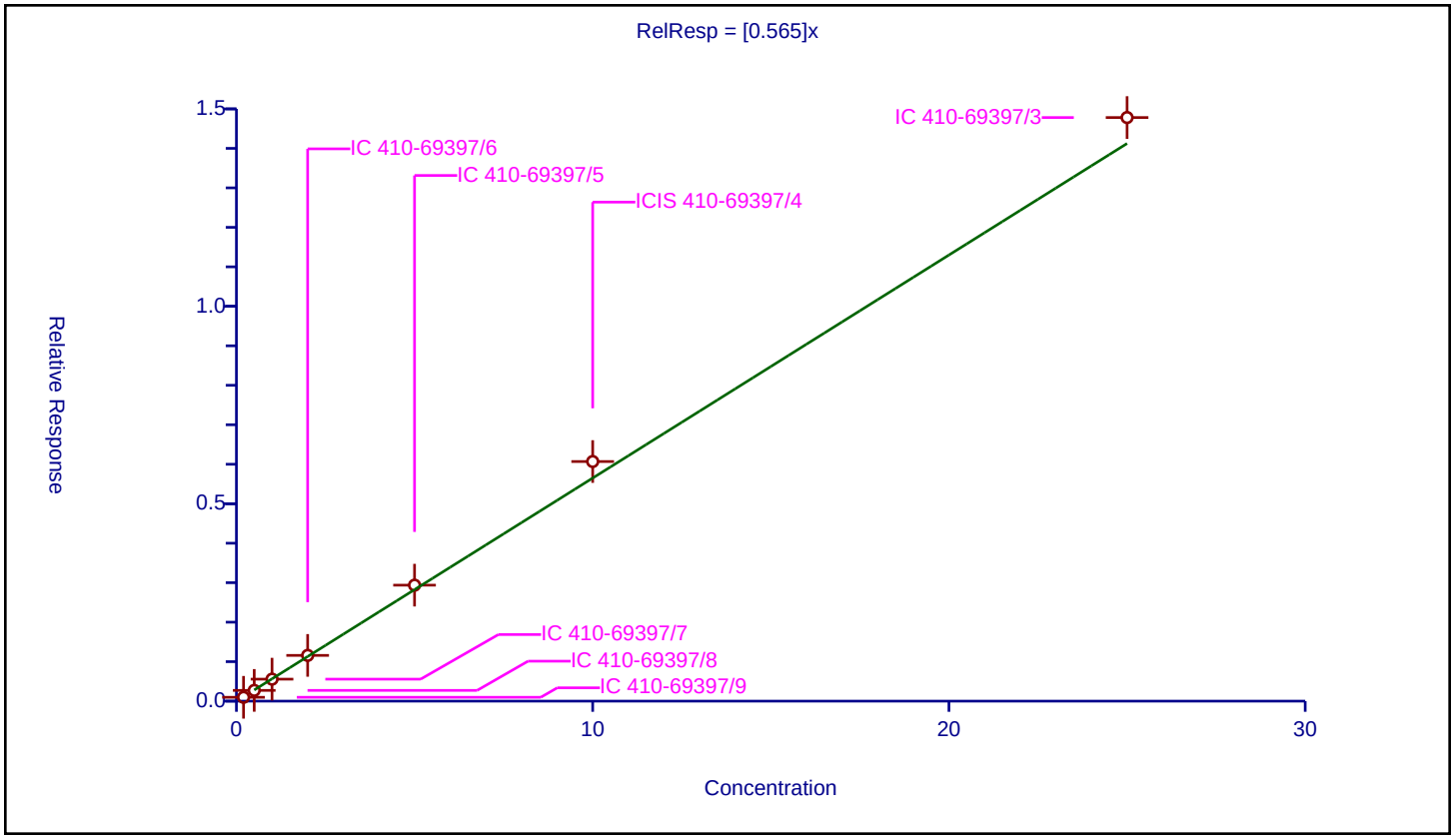
Curve Coefficients

Intercept:	0
Slope:	0.565

Error Coefficients

Standard Error:	596000
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 410-69397/9	0.2	0.097592	10.0	848529.0	0.487962	Y
2	IC 410-69397/8	0.5	0.27248	10.0	857933.0	0.544961	Y
3	IC 410-69397/7	1.0	0.556858	10.0	843985.0	0.556858	Y
4	IC 410-69397/6	2.0	1.158483	10.0	848463.0	0.579242	Y
5	IC 410-69397/5	5.0	2.937648	10.0	845833.0	0.58753	Y
6	ICIS 410-69397/4	10.0	6.069065	10.0	891775.0	0.606906	Y
7	IC 410-69397/3	25.0	14.780776	10.0	898877.0	0.591231	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

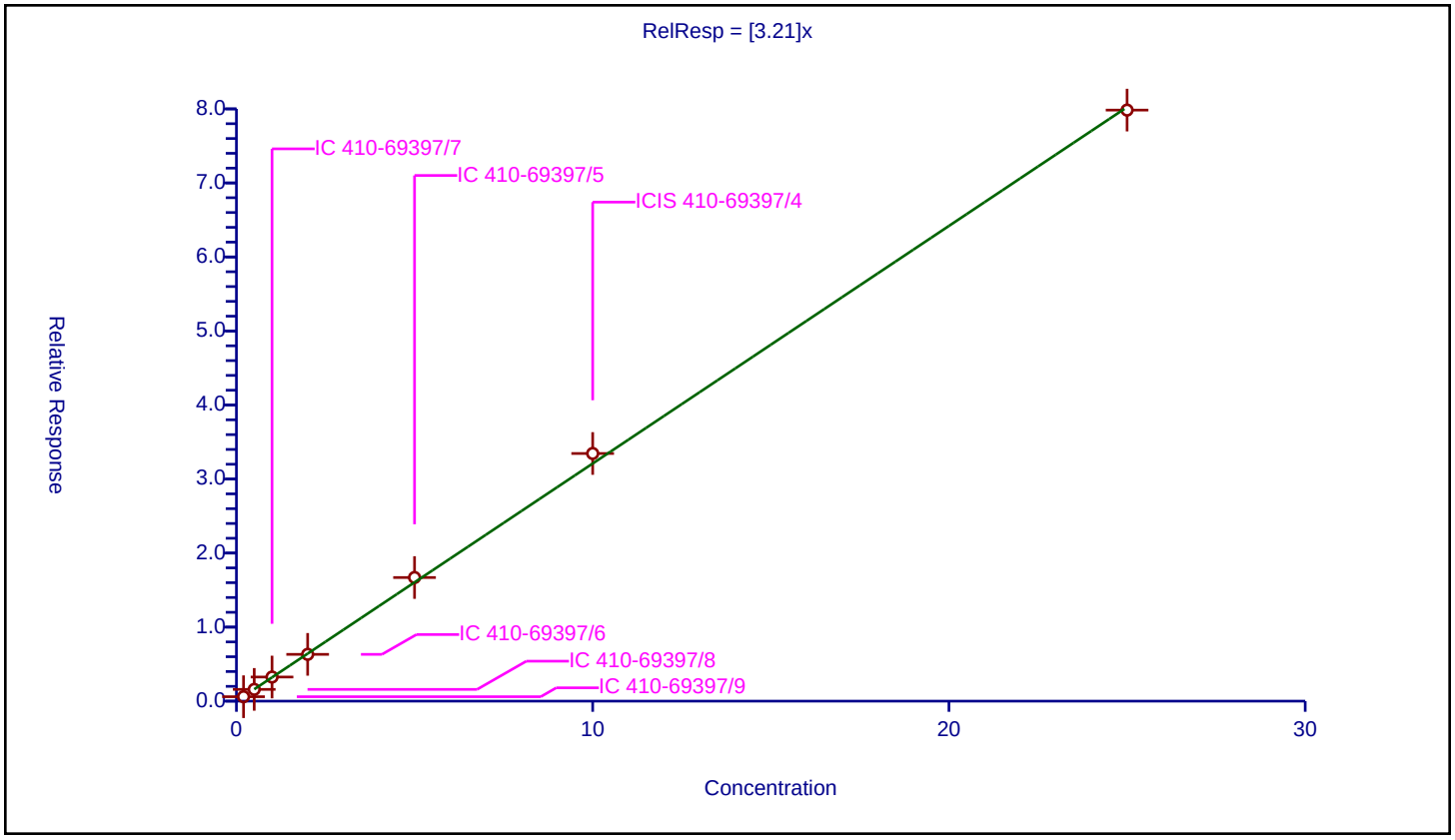
Curve Coefficients

Intercept:	0
Slope:	3.21

Error Coefficients

Standard Error:	3230000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.599685	10.0	848529.0	2.998424	Y
2	IC 410-69397/8	0.5	1.586756	10.0	857933.0	3.173511	Y
3	IC 410-69397/7	1.0	3.25642	10.0	843985.0	3.25642	Y
4	IC 410-69397/6	2.0	6.320712	10.0	848463.0	3.160356	Y
5	IC 410-69397/5	5.0	16.699526	10.0	845833.0	3.339905	Y
6	ICIS 410-69397/4	10.0	33.452115	10.0	891775.0	3.345212	Y
7	IC 410-69397/3	25.0	79.839611	10.0	898877.0	3.193584	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

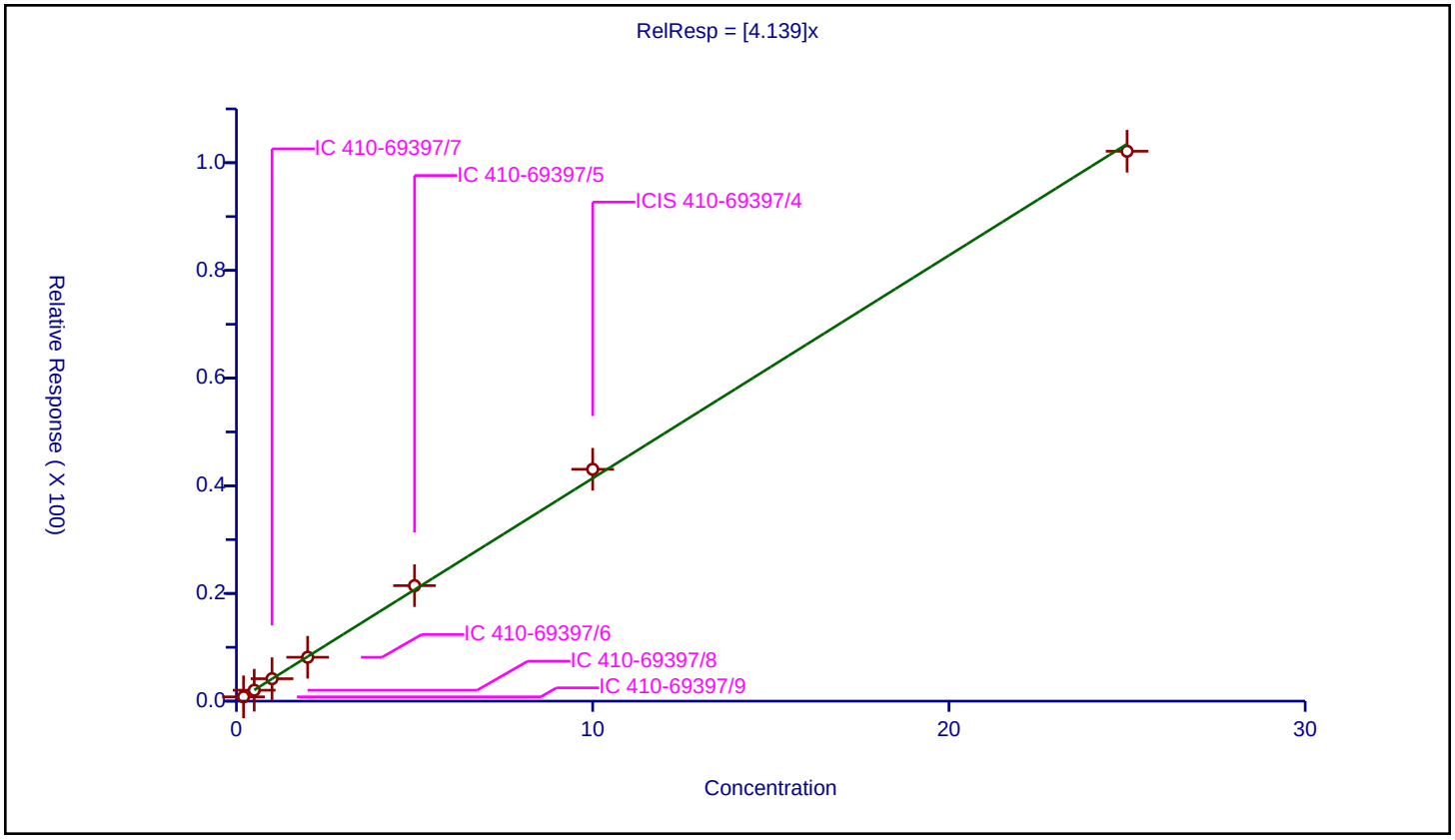
Curve Coefficients

Intercept:	0
Slope:	4.139

Error Coefficients

Standard Error:	4140000
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 410-69397/9	0.2	0.797415	10.0	848529.0	3.987076	Y
2	IC 410-69397/8	0.5	2.03214	10.0	857933.0	4.06428	Y
3	IC 410-69397/7	1.0	4.166863	10.0	843985.0	4.166863	Y
4	IC 410-69397/6	2.0	8.150161	10.0	848463.0	4.07508	Y
5	IC 410-69397/5	5.0	21.454093	10.0	845833.0	4.290819	Y
6	ICIS 410-69397/4	10.0	43.064136	10.0	891775.0	4.306414	Y
7	IC 410-69397/3	25.0	102.132316	10.0	898877.0	4.085293	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

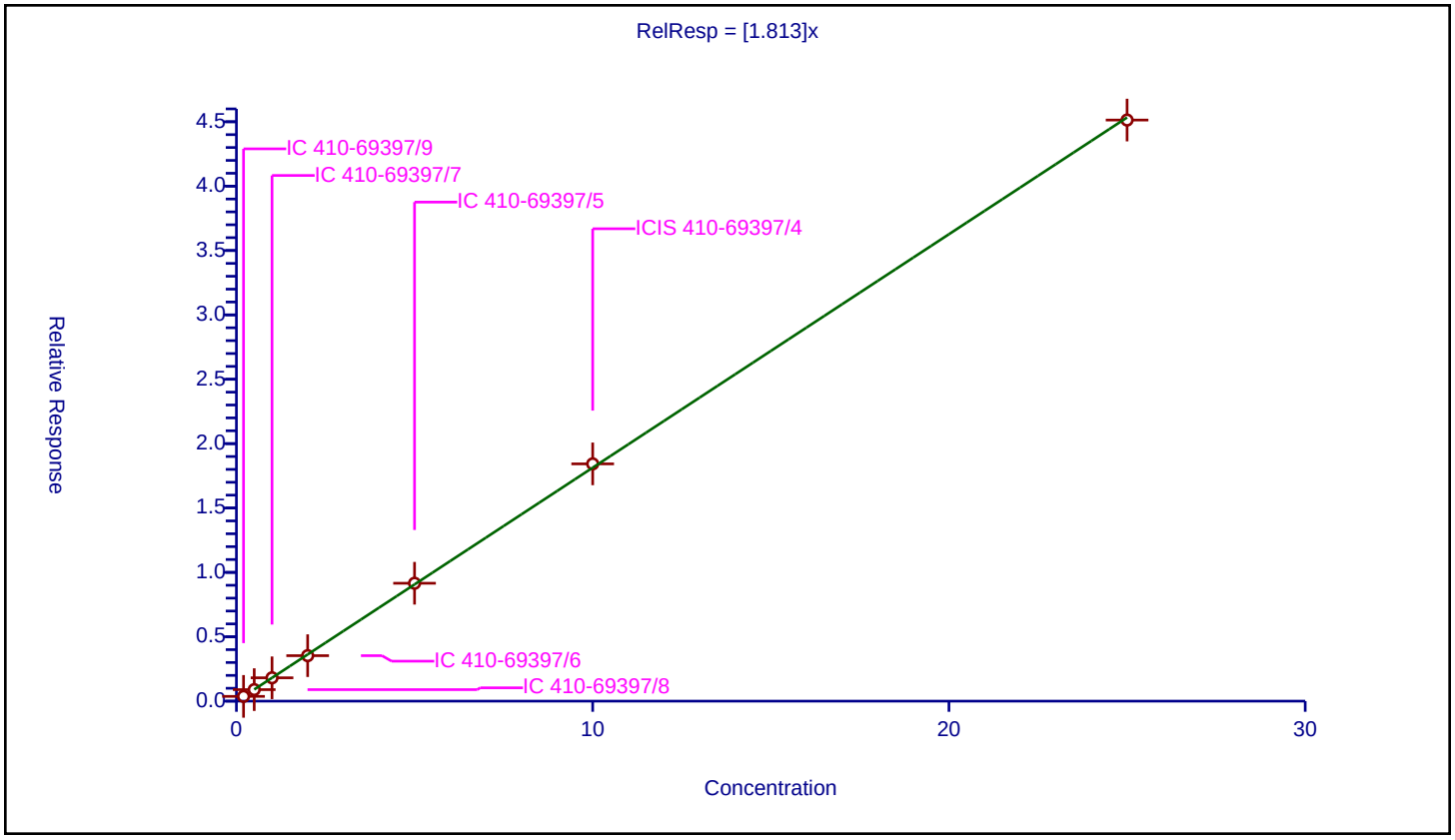
Curve Coefficients

Intercept:	0
Slope:	1.813

Error Coefficients

Standard Error:	1820000
Relative Standard Error:	1.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.369133	10.0	848529.0	1.845665	Y
2	IC 410-69397/8	0.5	0.893869	10.0	857933.0	1.787739	Y
3	IC 410-69397/7	1.0	1.813753	10.0	843985.0	1.813753	Y
4	IC 410-69397/6	2.0	3.531881	10.0	848463.0	1.76594	Y
5	IC 410-69397/5	5.0	9.157694	10.0	845833.0	1.831539	Y
6	ICIS 410-69397/4	10.0	18.42957	10.0	891775.0	1.842957	Y
7	IC 410-69397/3	25.0	45.132627	10.0	898877.0	1.805305	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

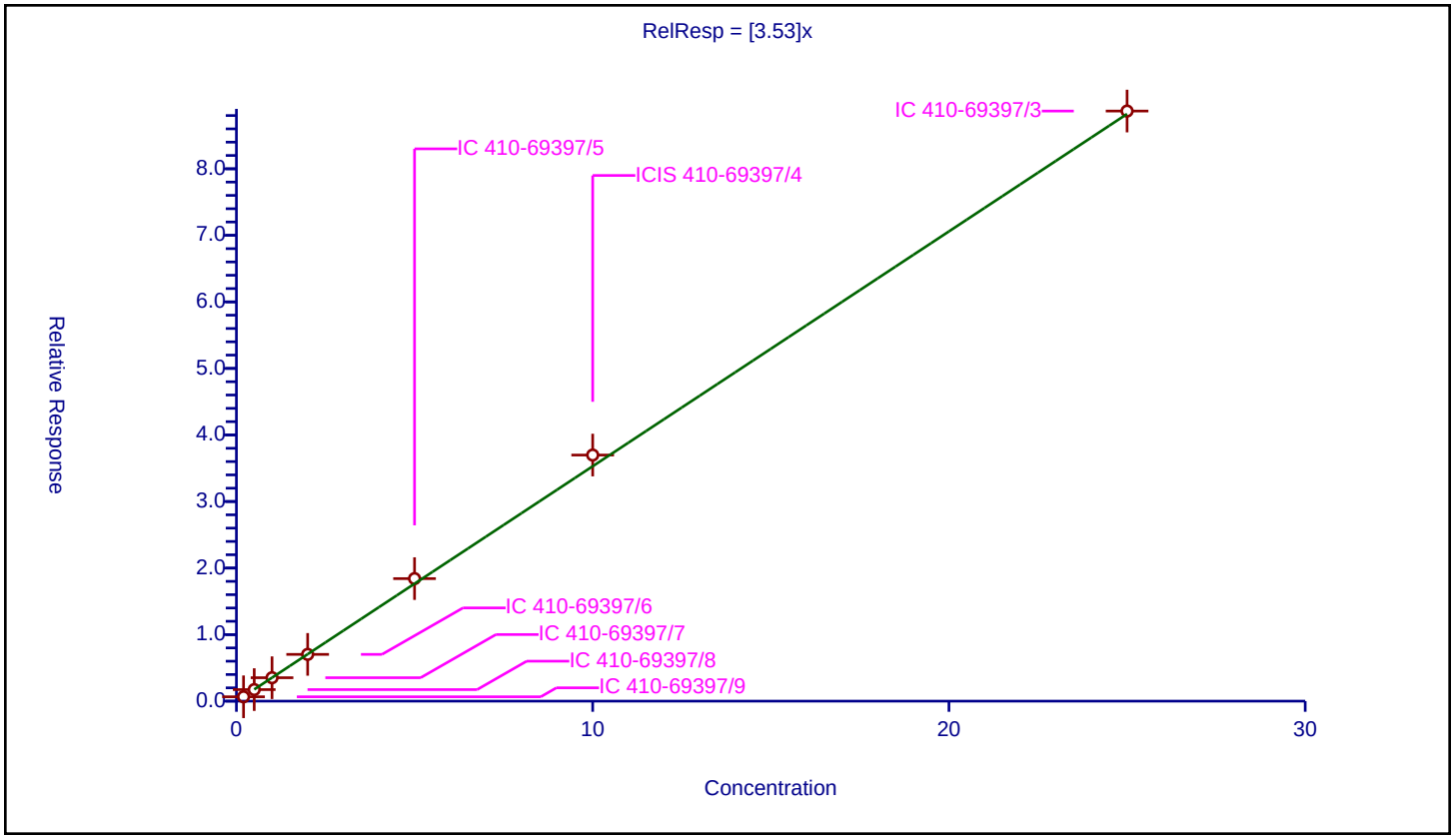
Curve Coefficients

Intercept:	0
Slope:	3.53

Error Coefficients

Standard Error:	3590000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.654603	10.0	848529.0	3.273017	Y
2	IC 410-69397/8	0.5	1.736872	10.0	857933.0	3.473744	Y
3	IC 410-69397/7	1.0	3.518949	10.0	843985.0	3.518949	Y
4	IC 410-69397/6	2.0	7.026317	10.0	848463.0	3.513158	Y
5	IC 410-69397/5	5.0	18.413067	10.0	845833.0	3.682613	Y
6	ICIS 410-69397/4	10.0	36.981167	10.0	891775.0	3.698117	Y
7	IC 410-69397/3	25.0	88.675458	10.0	898877.0	3.547018	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

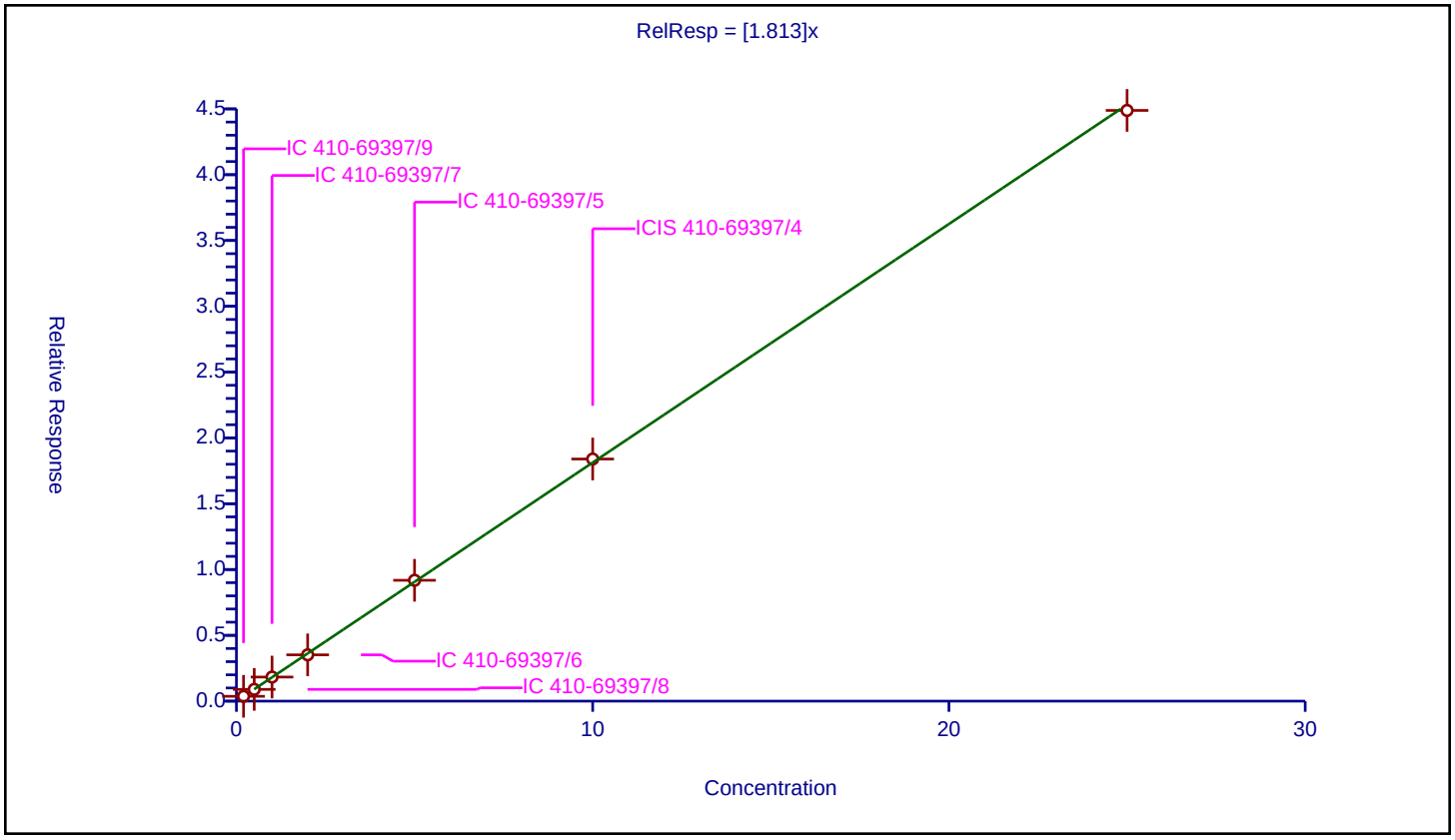
Curve Coefficients

Intercept:	0
Slope:	1.813

Error Coefficients

Standard Error:	1810000
Relative Standard Error:	1.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.368072	10.0	848529.0	1.840361	Y
2	IC 410-69397/8	0.5	0.893147	10.0	857933.0	1.786293	Y
3	IC 410-69397/7	1.0	1.831028	10.0	843985.0	1.831028	Y
4	IC 410-69397/6	2.0	3.519081	10.0	848463.0	1.75954	Y
5	IC 410-69397/5	5.0	9.182794	10.0	845833.0	1.836559	Y
6	ICIS 410-69397/4	10.0	18.397432	10.0	891775.0	1.839743	Y
7	IC 410-69397/3	25.0	44.88455	10.0	898877.0	1.795382	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

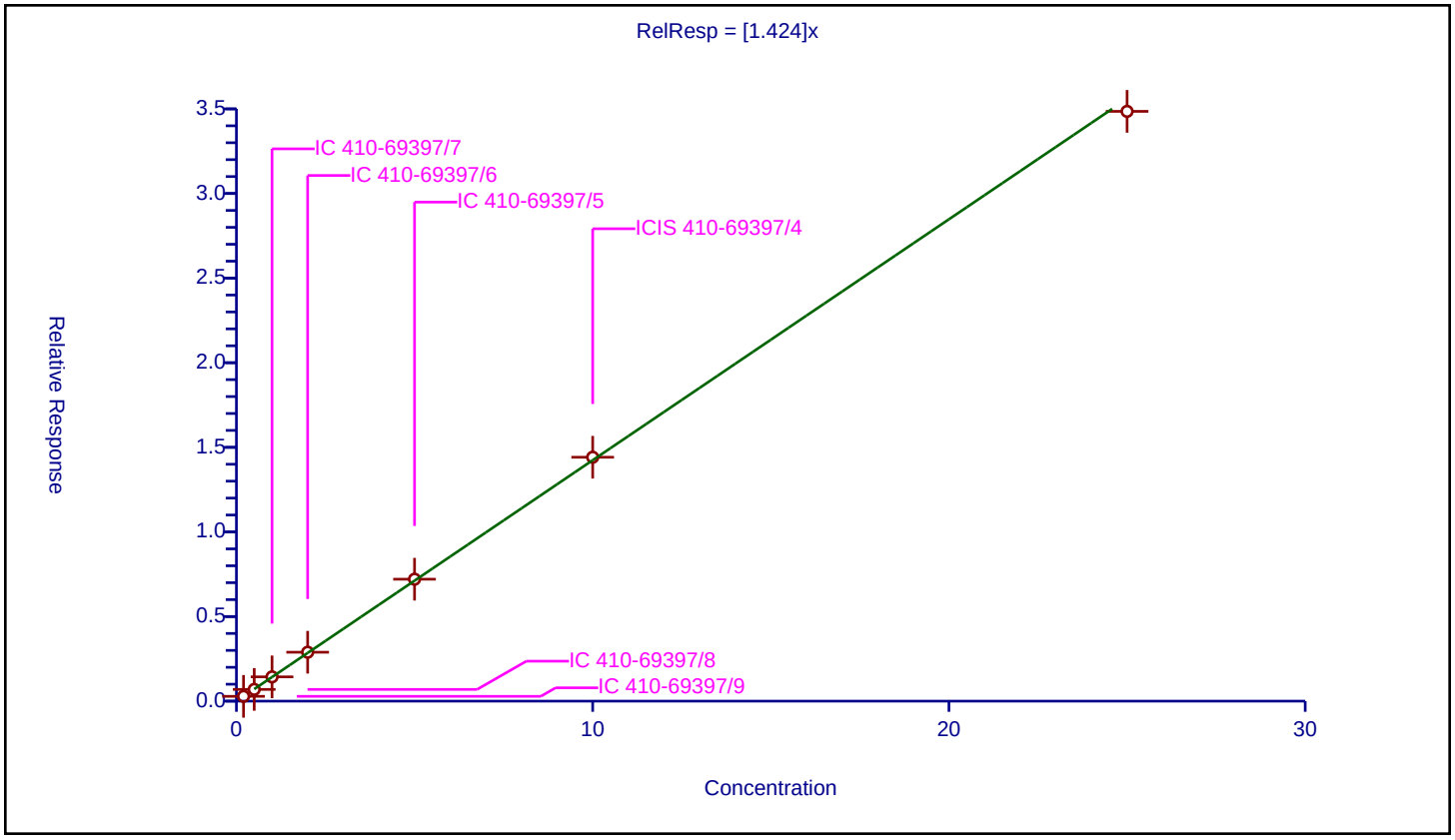
Curve Coefficients

Intercept:	0
Slope:	1.424

Error Coefficients

Standard Error:	1410000
Relative Standard Error:	1.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.284622	10.0	848529.0	1.42311	Y
2	IC 410-69397/8	0.5	0.693469	10.0	857933.0	1.386938	Y
3	IC 410-69397/7	1.0	1.434161	10.0	843985.0	1.434161	Y
4	IC 410-69397/6	2.0	2.890851	10.0	848463.0	1.445425	Y
5	IC 410-69397/5	5.0	7.20712	10.0	845833.0	1.441424	Y
6	ICIS 410-69397/4	10.0	14.414555	10.0	891775.0	1.441456	Y
7	IC 410-69397/3	25.0	34.852955	10.0	898877.0	1.394118	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

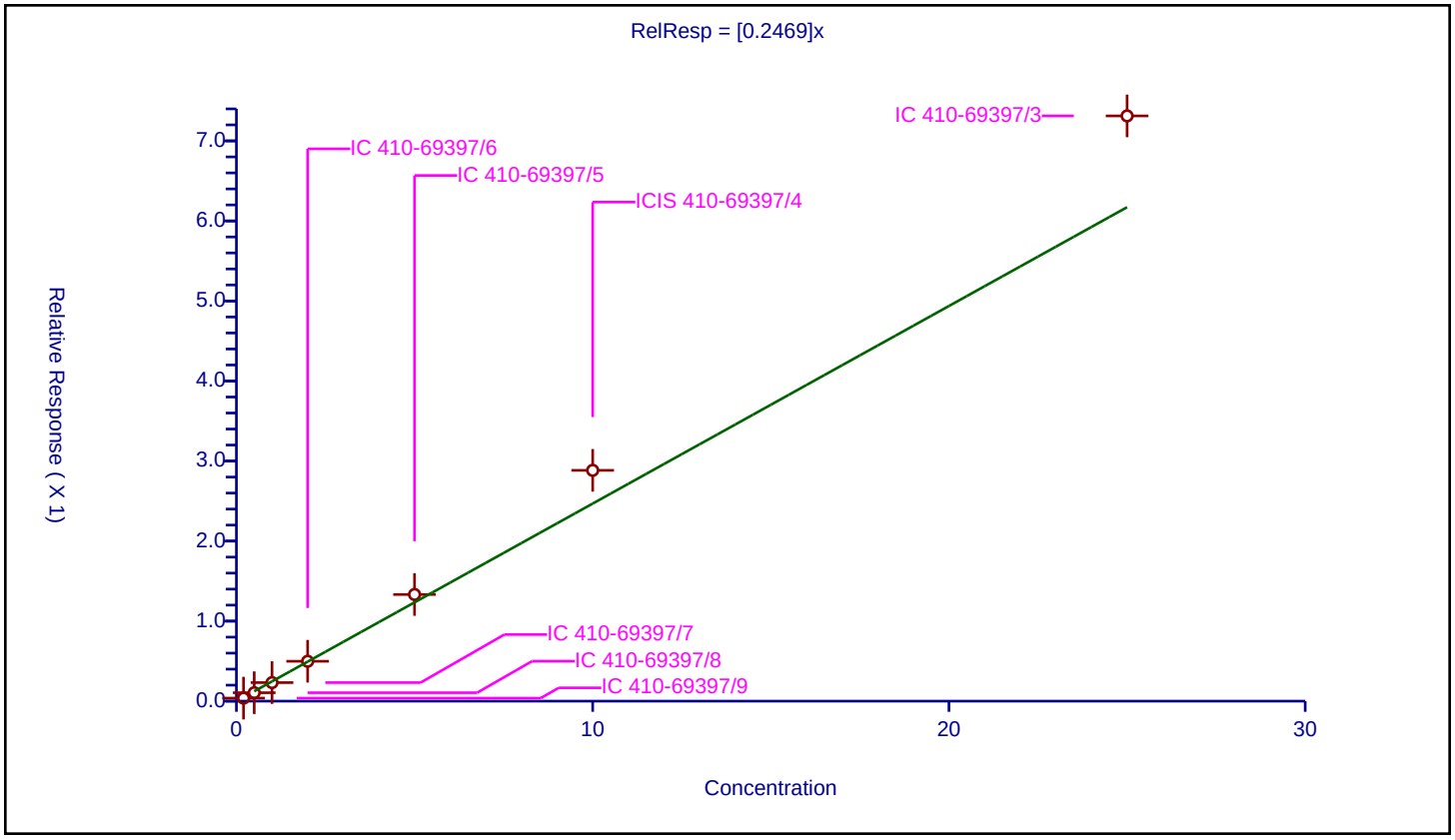
Curve Coefficients

Intercept:	0
Slope:	0.2469

Error Coefficients

Standard Error:	292000
Relative Standard Error:	15.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.037724	10.0	848529.0	0.188621	Y
2	IC 410-69397/8	0.5	0.105463	10.0	857933.0	0.210926	Y
3	IC 410-69397/7	1.0	0.231912	10.0	843985.0	0.231912	Y
4	IC 410-69397/6	2.0	0.498254	10.0	848463.0	0.249127	Y
5	IC 410-69397/5	5.0	1.332568	10.0	845833.0	0.266514	Y
6	ICIS 410-69397/4	10.0	2.883732	10.0	891775.0	0.288373	Y
7	IC 410-69397/3	25.0	7.31218	10.0	898877.0	0.292487	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

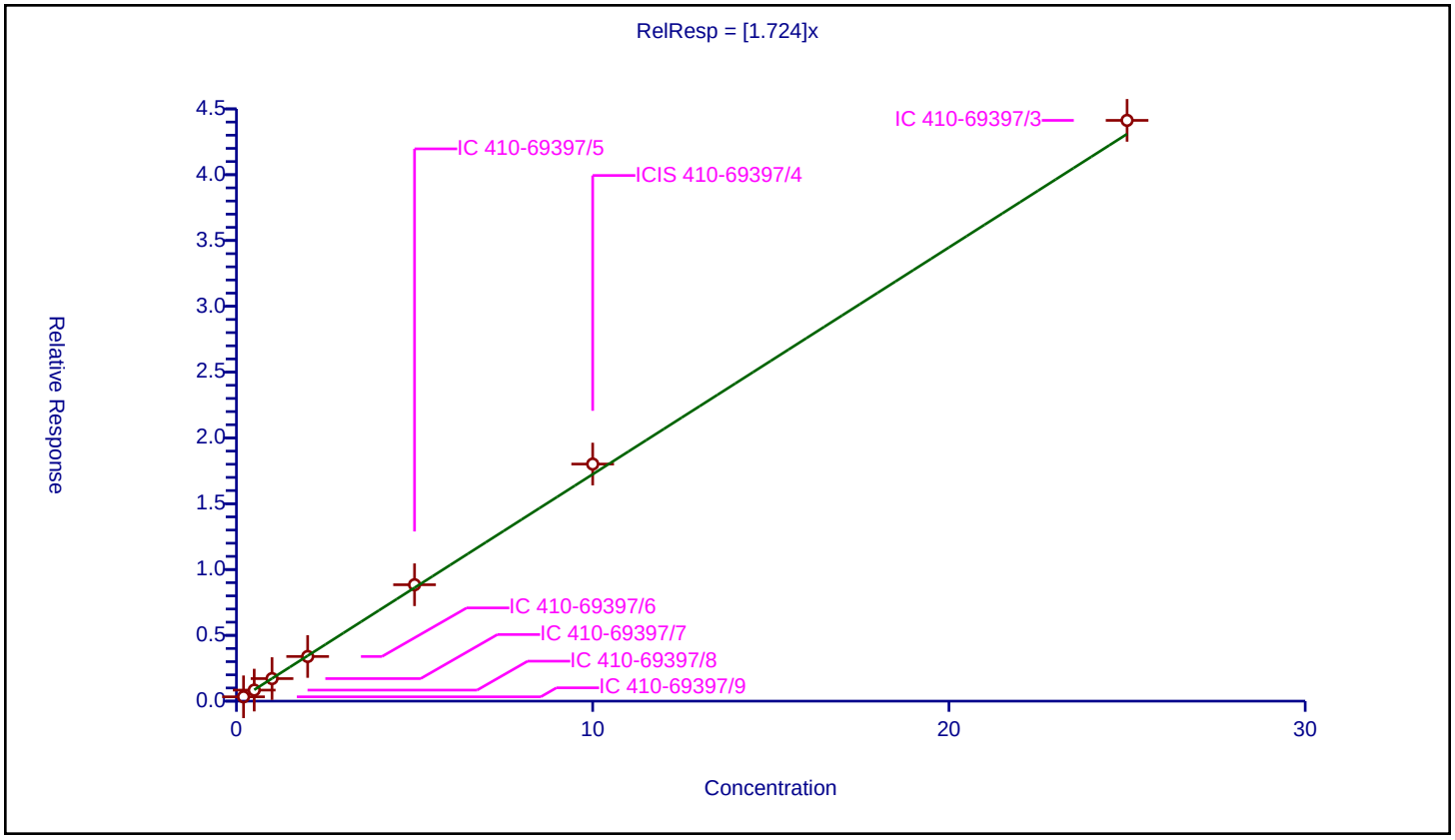
Curve Coefficients

Intercept:	0
Slope:	1.724

Error Coefficients

Standard Error:	1780000
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 410-69397/9	0.2	0.328875	10.0	848529.0	1.644375	Y
2	IC 410-69397/8	0.5	0.838096	10.0	857933.0	1.676191	Y
3	IC 410-69397/7	1.0	1.714	10.0	843985.0	1.714	Y
4	IC 410-69397/6	2.0	3.392417	10.0	848463.0	1.696208	Y
5	IC 410-69397/5	5.0	8.843862	10.0	845833.0	1.768772	Y
6	ICIS 410-69397/4	10.0	18.013064	10.0	891775.0	1.801306	Y
7	IC 410-69397/3	25.0	44.128774	10.0	898877.0	1.765151	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

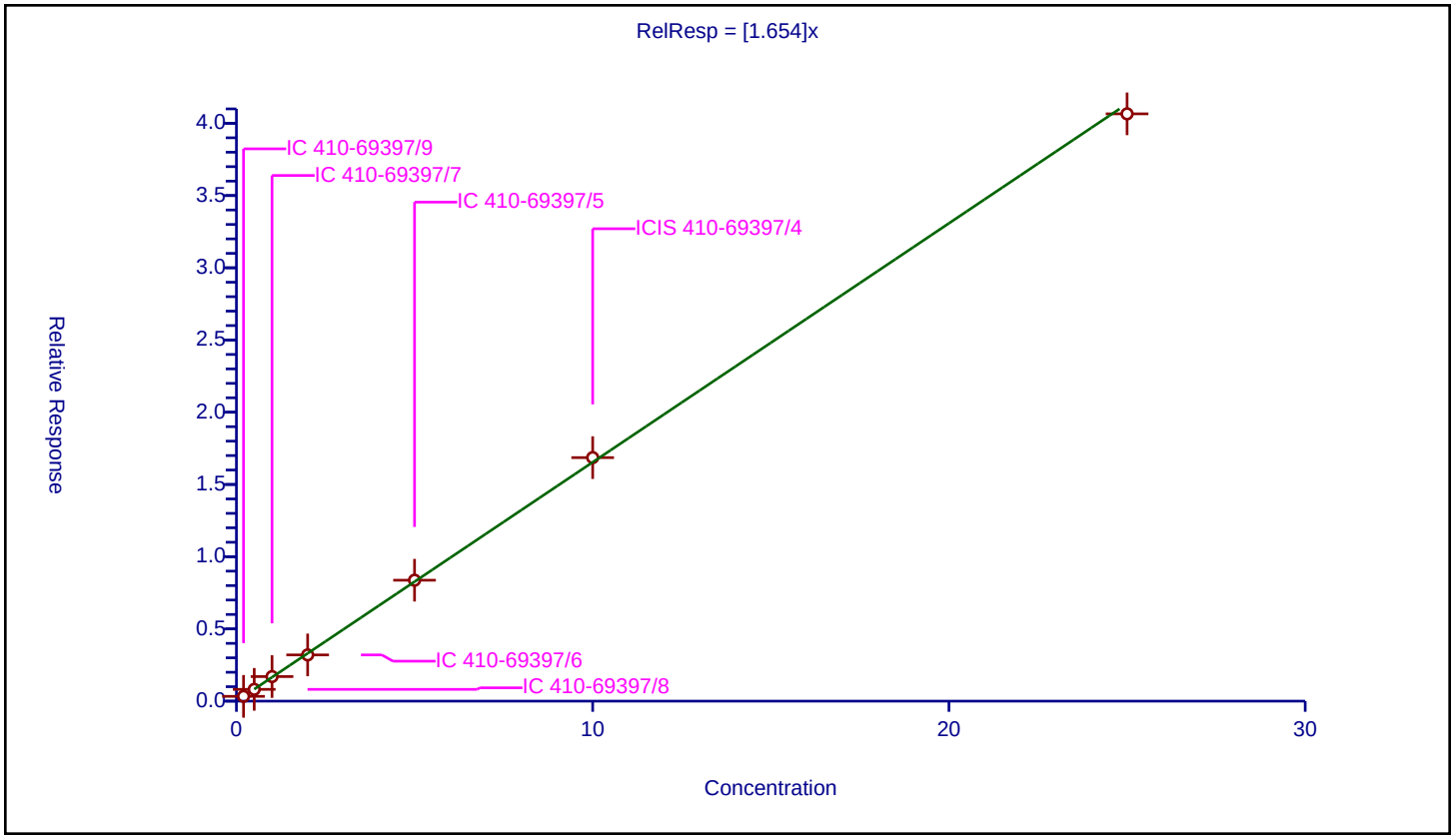
Curve Coefficients

Intercept:	0
Slope:	1.654

Error Coefficients

Standard Error:	1640000
Relative Standard Error:	2.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.331845	10.0	848529.0	1.659224	Y
2	IC 410-69397/8	0.5	0.81553	10.0	857933.0	1.63106	Y
3	IC 410-69397/7	1.0	1.7008	10.0	843985.0	1.7008	Y
4	IC 410-69397/6	2.0	3.200658	10.0	848463.0	1.600329	Y
5	IC 410-69397/5	5.0	8.371676	10.0	845833.0	1.674335	Y
6	ICIS 410-69397/4	10.0	16.858748	10.0	891775.0	1.685875	Y
7	IC 410-69397/3	25.0	40.656252	10.0	898877.0	1.62625	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

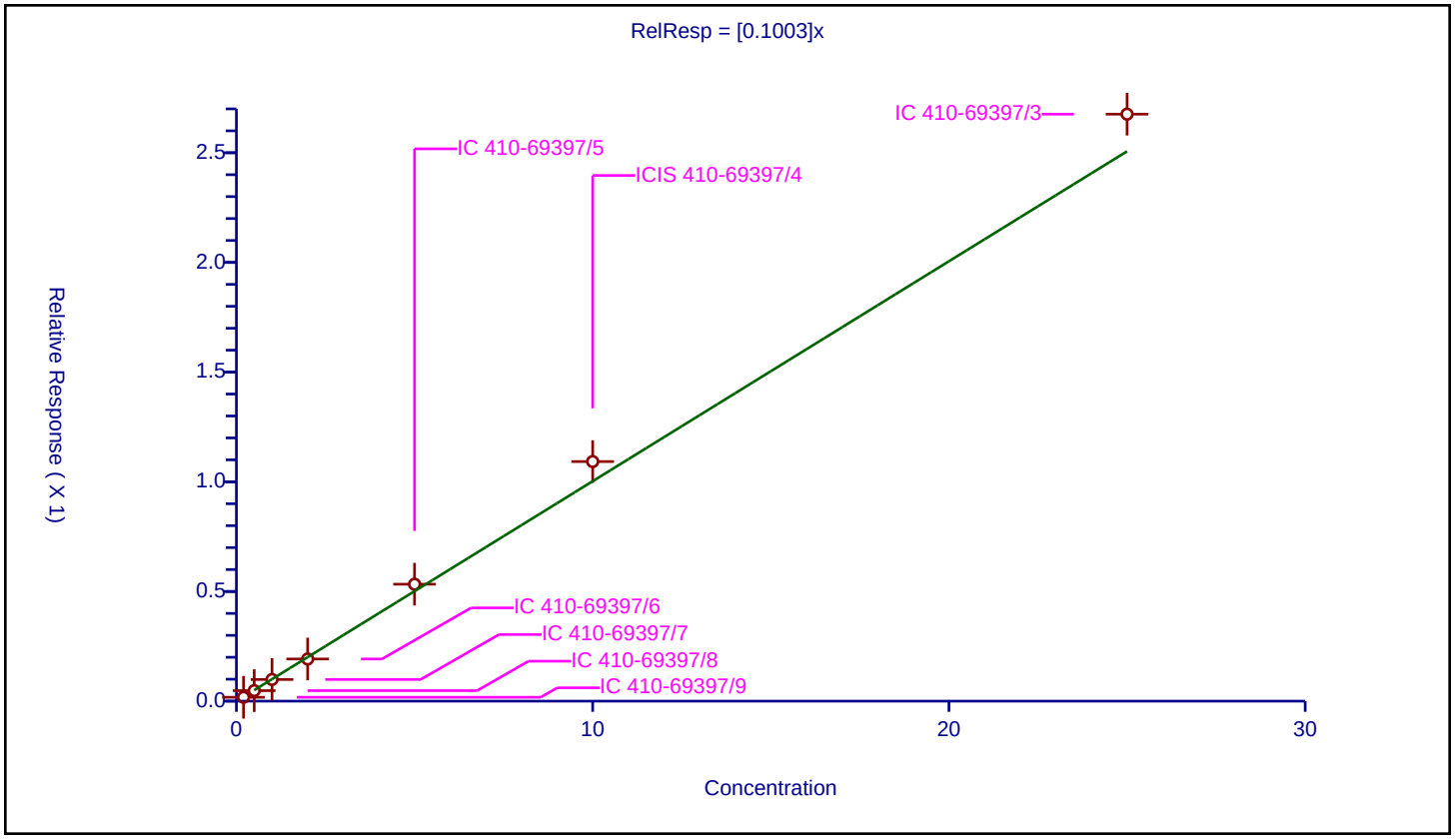
Curve Coefficients

Intercept:	0
Slope:	0.1003

Error Coefficients

Standard Error:	108000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.017689	10.0	848529.0	0.088447	Y
2	IC 410-69397/8	0.5	0.047848	10.0	857933.0	0.095695	Y
3	IC 410-69397/7	1.0	0.09877	10.0	843985.0	0.09877	Y
4	IC 410-69397/6	2.0	0.192136	10.0	848463.0	0.096068	Y
5	IC 410-69397/5	5.0	0.533084	10.0	845833.0	0.106617	Y
6	ICIS 410-69397/4	10.0	1.092204	10.0	891775.0	0.10922	Y
7	IC 410-69397/3	25.0	2.675906	10.0	898877.0	0.107036	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

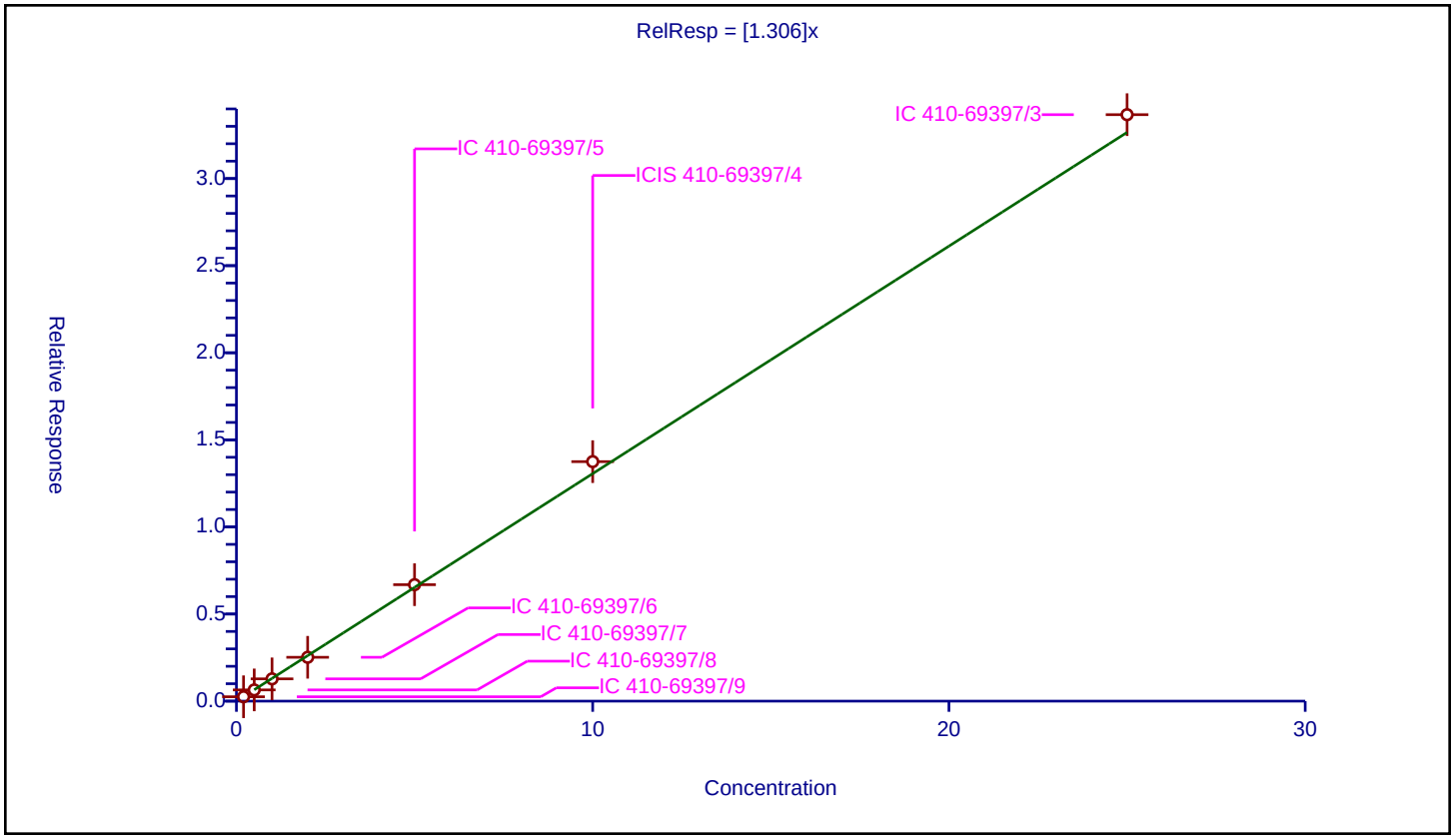
Curve Coefficients

Intercept:	0
Slope:	1.306

Error Coefficients

Standard Error:	1360000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.251376	10.0	848529.0	1.256881	Y
2	IC 410-69397/8	0.5	0.644654	10.0	857933.0	1.289308	Y
3	IC 410-69397/7	1.0	1.278565	10.0	843985.0	1.278565	Y
4	IC 410-69397/6	2.0	2.517552	10.0	848463.0	1.258776	Y
5	IC 410-69397/5	5.0	6.685788	10.0	845833.0	1.337158	Y
6	ICIS 410-69397/4	10.0	13.750217	10.0	891775.0	1.375022	Y
7	IC 410-69397/3	25.0	33.668622	10.0	898877.0	1.346745	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

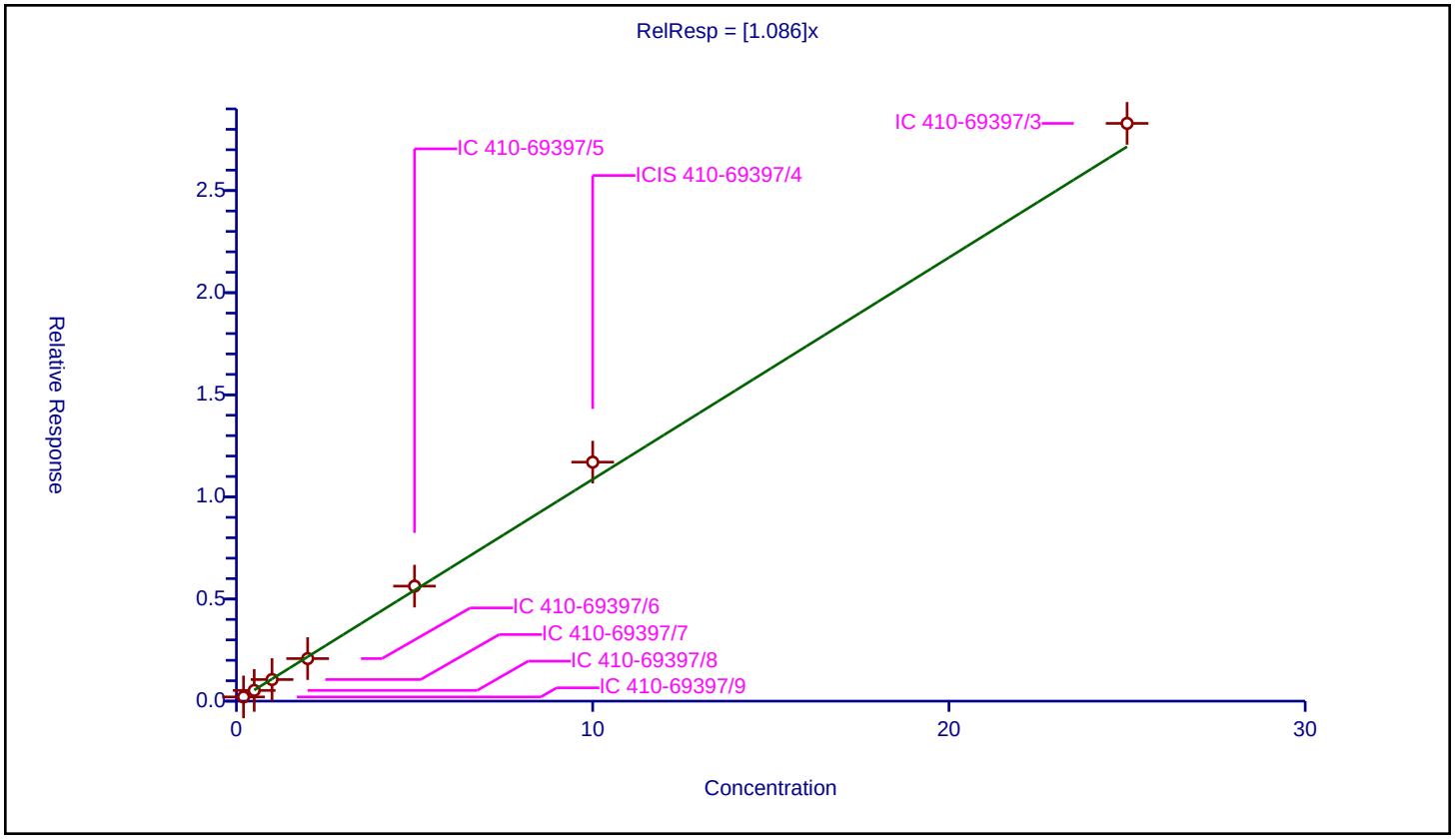
Curve Coefficients

Intercept:	0
Slope:	1.086

Error Coefficients

Standard Error:	1140000
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 410-69397/9	0.2	0.205096	10.0	848529.0	1.025481	Y
2	IC 410-69397/8	0.5	0.525088	10.0	857933.0	1.050175	Y
3	IC 410-69397/7	1.0	1.056832	10.0	843985.0	1.056832	Y
4	IC 410-69397/6	2.0	2.083721	10.0	848463.0	1.04186	Y
5	IC 410-69397/5	5.0	5.631372	10.0	845833.0	1.126274	Y
6	ICIS 410-69397/4	10.0	11.703468	10.0	891775.0	1.170347	Y
7	IC 410-69397/3	25.0	28.290345	10.0	898877.0	1.131614	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

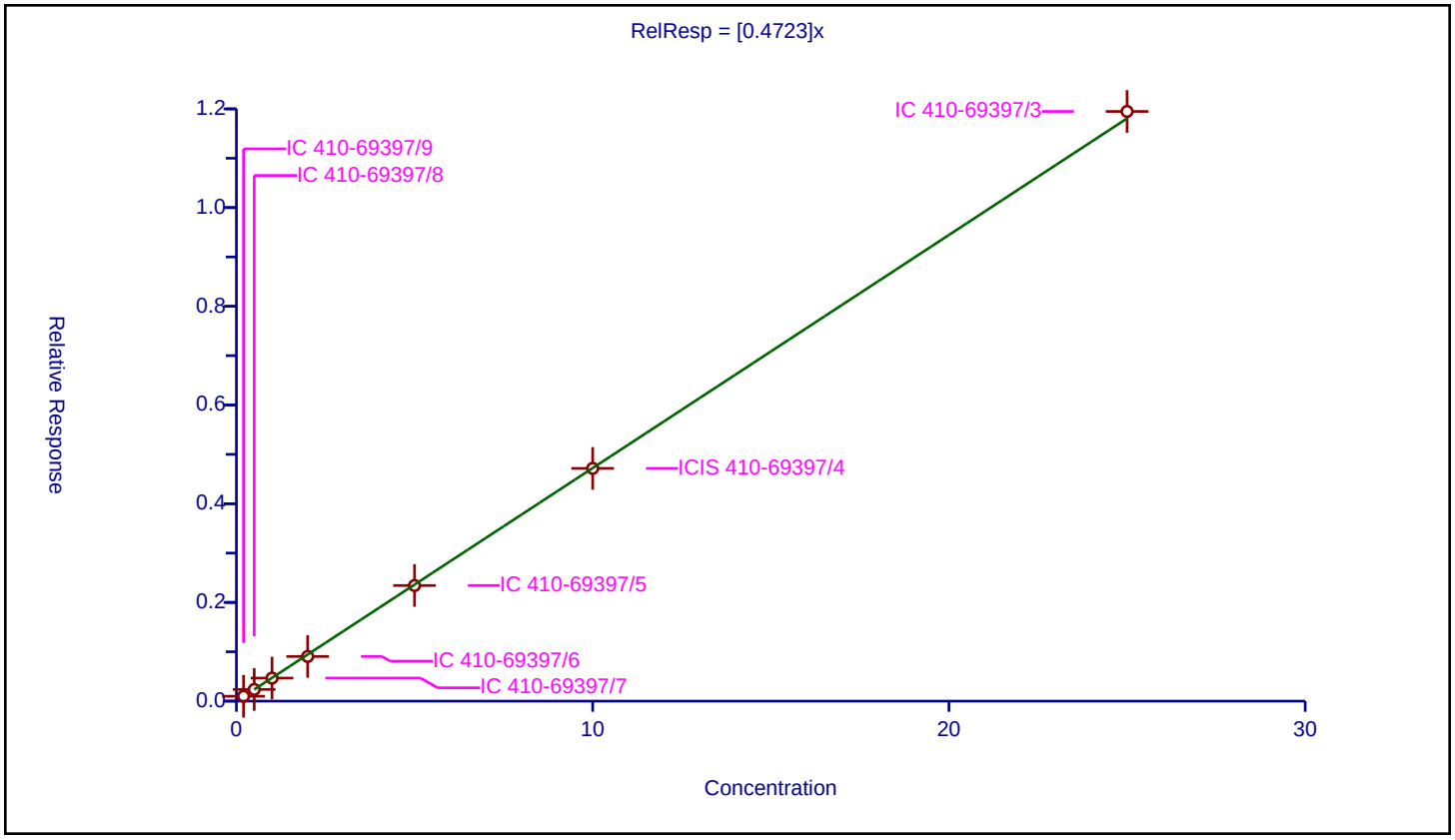
Curve Coefficients

Intercept:	0
Slope:	0.4723

Error Coefficients

Standard Error:	479000
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 410-69397/9	0.2	0.098795	10.0	848529.0	0.493973	Y
2	IC 410-69397/8	0.5	0.237186	10.0	857933.0	0.474373	Y
3	IC 410-69397/7	1.0	0.466892	10.0	843985.0	0.466892	Y
4	IC 410-69397/6	2.0	0.905437	10.0	848463.0	0.452719	Y
5	IC 410-69397/5	5.0	2.342685	10.0	845833.0	0.468537	Y
6	ICIS 410-69397/4	10.0	4.715719	10.0	891775.0	0.471572	Y
7	IC 410-69397/3	25.0	11.948409	10.0	898877.0	0.477936	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

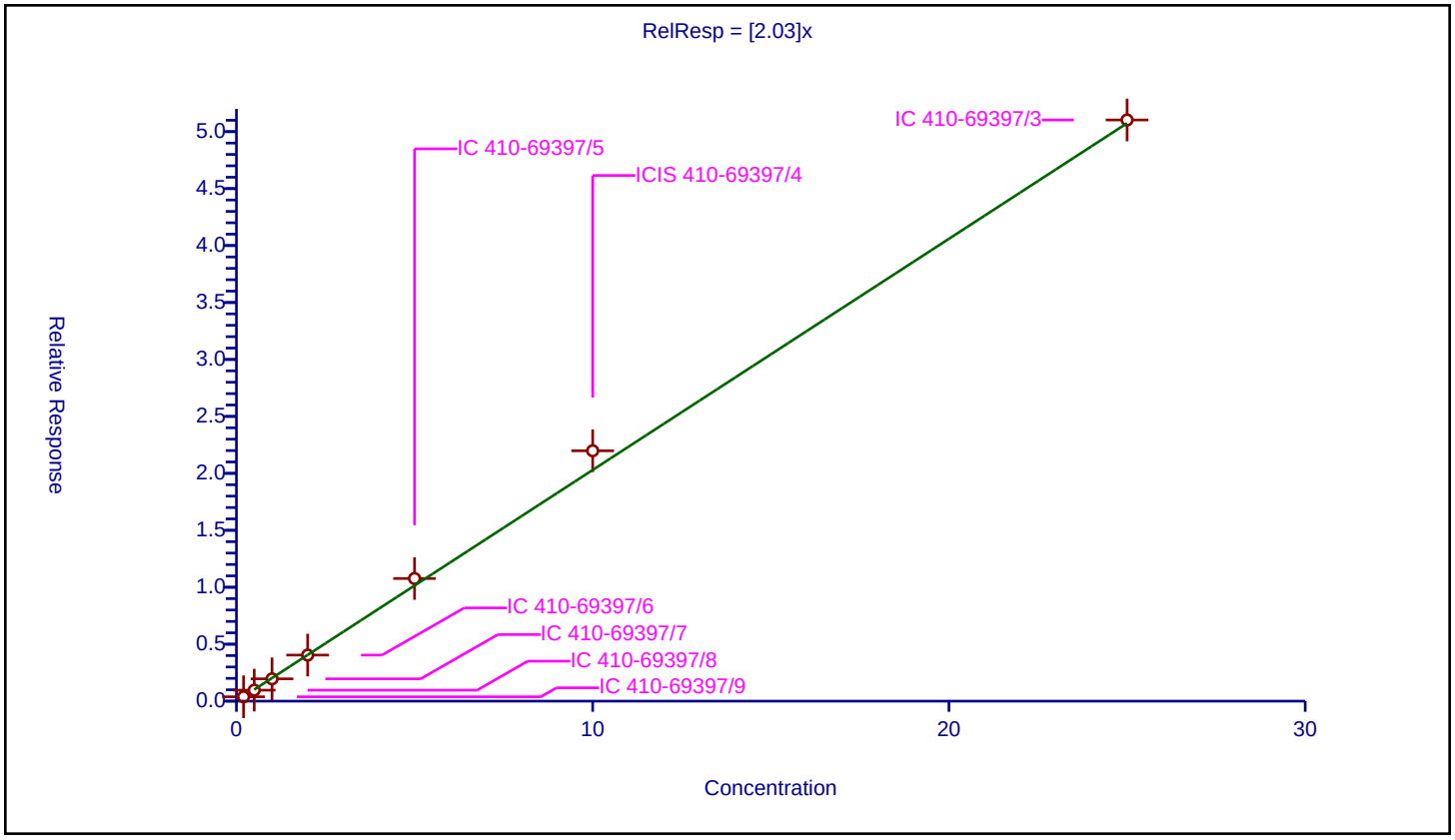
Curve Coefficients

Intercept:	0
Slope:	2.03

Error Coefficients

Standard Error:	2080000
Relative Standard Error:	5.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.381354	10.0	848529.0	1.90677	Y
2	IC 410-69397/8	0.5	0.963677	10.0	857933.0	1.927353	Y
3	IC 410-69397/7	1.0	1.958625	10.0	843985.0	1.958625	Y
4	IC 410-69397/6	2.0	4.044278	10.0	848463.0	2.022139	Y
5	IC 410-69397/5	5.0	10.767823	10.0	845833.0	2.153565	Y
6	ICIS 410-69397/4	10.0	21.98244	10.0	891775.0	2.198244	Y
7	IC 410-69397/3	25.0	51.026347	10.0	898877.0	2.041054	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

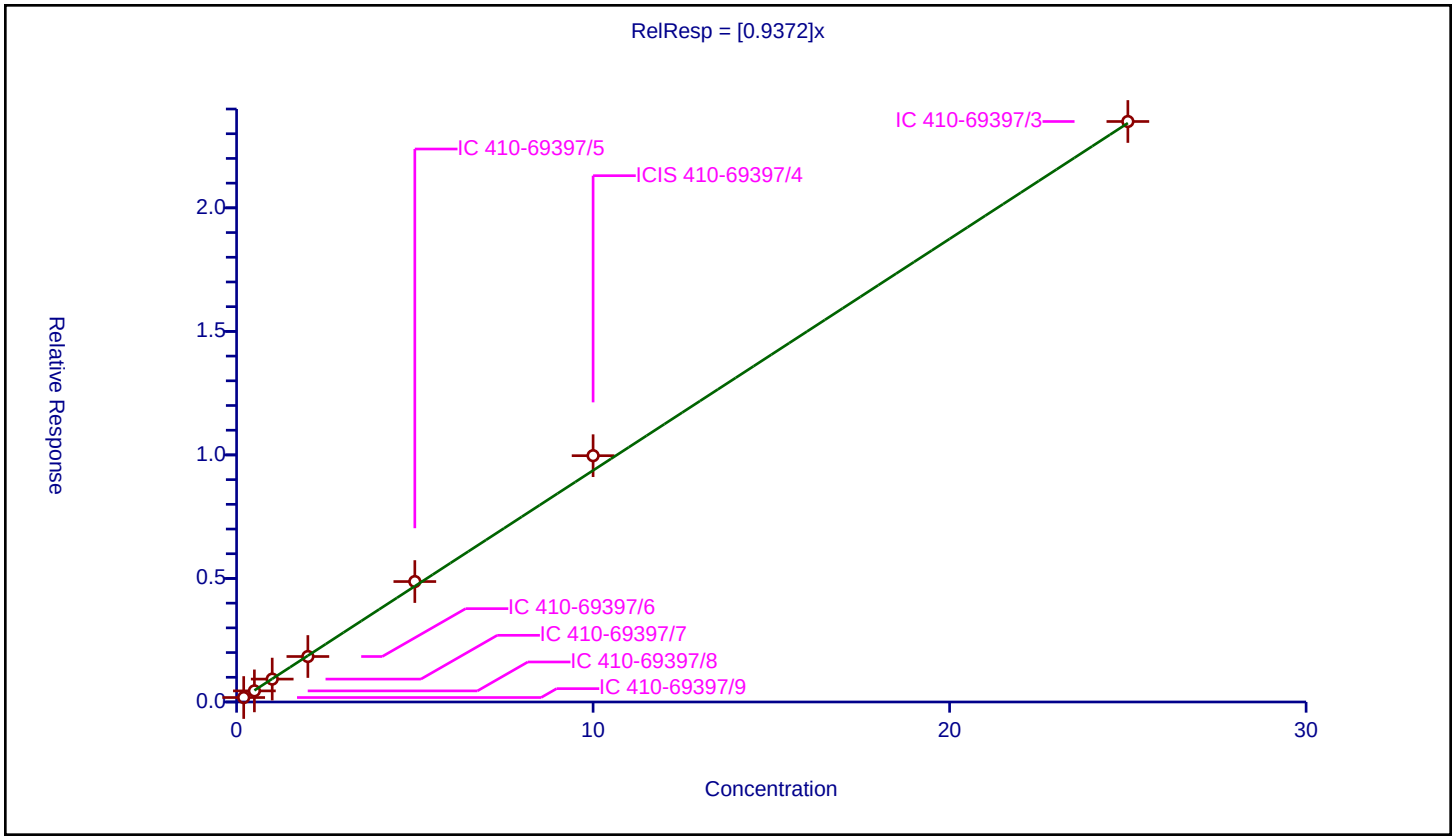
Curve Coefficients

Intercept:	0
Slope:	0.9372

Error Coefficients

Standard Error:	953000
Relative Standard Error:	3.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-69397/9	0.2	0.180395	10.0	848529.0	0.901973	Y
2	IC 410-69397/8	0.5	0.449942	10.0	857933.0	0.899884	Y
3	IC 410-69397/7	1.0	0.926569	10.0	843985.0	0.926569	Y
4	IC 410-69397/6	2.0	1.840387	10.0	848463.0	0.920193	Y
5	IC 410-69397/5	5.0	4.875159	10.0	845833.0	0.975032	Y
6	ICIS 410-69397/4	10.0	9.969533	10.0	891775.0	0.996953	Y
7	IC 410-69397/3	25.0	23.495384	10.0	898877.0	0.939815	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Lab Sample ID: ICV 410-70996/10 Calibration Date: 11/30/2020 15:26

Instrument ID: 16334 Calib Start Date: 11/30/2020 12:50

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 11/30/2020 15:03

Lab File ID: GN30V01.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	0.2600	0.2416	0.1000	4.65	5.00	-7.1	30.0
Chloromethane	Ave	0.3508	0.3213	0.1000	4.58	5.00	-8.4	30.0
1,3-Butadiene	Ave	0.3993	0.3126		3.91	5.00	-21.7	30.0
Vinyl chloride	Ave	0.2995	0.2990	0.1000	4.99	5.00	-0.2	30.0
Bromomethane	Ave	0.2087	0.1997	0.1000	4.79	5.00	-4.3	30.0
Chloroethane	Ave	0.1817	0.1723	0.1000	4.74	5.00	-5.2	30.0
Dichlorofluoromethane	Ave	0.4073	0.3764		4.62	5.00	-7.6	30.0
Trichlorofluoromethane	Ave	0.3447	0.3362	0.1000	4.88	5.00	-2.5	30.0
Ethyl ether	Ave	0.2035	0.2224		5.47	5.00	9.3	30.0
Freon 123a	Ave	0.2817	0.2596		4.61	5.00	-7.8	30.0
Acrolein	Ave	1.898	1.828		36.1	37.5	-3.7	30.0
1,1-Dichloroethene	Ave	0.2083	0.1948	0.1000	4.68	5.00	-6.5	30.0
Freon 113	Ave	0.2037	0.1872	0.1000	4.60	5.00	-8.1	30.0
Acetone	Ave	2.453	2.210	0.1000	33.8	37.5	-9.9	30.0
Methyl iodide	Ave	0.3891	0.3490		4.48	5.00	-10.3	30.0
Ethyl bromide	Ave	0.1814	0.1740		4.80	5.01	-4.1	30.0
Carbon disulfide	Ave	0.7678	0.7064	0.1000	4.60	5.00	-8.0	30.0
Methyl acetate	Ave	7.427	6.901	0.1000	4.65	5.00	-7.1	30.0
Allyl chloride	Ave	0.4168	0.3882		4.66	5.00	-6.9	30.0
Methylene Chloride	Ave	0.2387	0.2297	0.1000	4.81	5.00	-3.8	30.0
t-Butyl alcohol	Ave	0.8990	0.8686		48.3	50.0	-3.4	30.0
Acrylonitrile	Ave	3.174	3.312		26.1	25.0	4.4	30.0
Methyl tert-butyl ether	Ave	0.6620	0.5965	0.1000	4.51	5.00	-9.9	30.0
trans-1,2-Dichloroethene	Ave	0.2398	0.2273	0.1000	4.74	5.00	-5.2	30.0
n-Hexane	Ave	0.3497	0.3110		4.45	5.00	-11.1	30.0
1,1-Dichloroethane	Ave	0.4451	0.4261	0.2000	4.79	5.00	-4.3	30.0
di-Isopropyl ether	Ave	0.9055	0.8389		4.63	5.00	-7.3	30.0
2-Chloro-1,3-butadiene	Ave	0.4048	0.3703		4.57	5.00	-8.5	30.0
Ethyl t-butyl ether	Ave	0.8257	0.7643		4.63	5.00	-7.4	30.0
2-Butanone (MEK)	Ave	4.546	4.606	0.1000	38.0	37.5	1.3	30.0
cis-1,2-Dichloroethene	Ave	0.2693	0.2694	0.1000	5.00	5.00	0.0	30.0
2,2-Dichloropropane	Ave	0.3733	0.3517		4.71	5.00	-5.8	30.0
Propionitrile	Ave	1.127	1.044		34.7	37.5	-7.4	30.0
Methacrylonitrile	Ave	4.178	4.142		37.2	37.5	-0.9	30.0
Bromochloromethane	Ave	0.1200	0.1113		4.64	5.00	-7.3	30.0
Tetrahydrofuran	Ave	1.175	1.236		26.3	25.0	5.2	30.0
Chloroform	Ave	0.4289	0.4042	0.2000	4.71	5.00	-5.8	30.0
1,1,1-Trichloroethane	Ave	0.3670	0.3406	0.1000	4.64	5.00	-7.2	30.0
Cyclohexane	Ave	0.4218	0.3924	0.1000	4.65	5.00	-7.0	30.0
Carbon tetrachloride	Ave	0.3183	0.2983	0.1000	4.69	5.00	-6.3	30.0
1,1-Dichloropropene	Ave	0.3449	0.3203		4.64	5.00	-7.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Lab Sample ID: ICV 410-70996/10 Calibration Date: 11/30/2020 15:26

Instrument ID: 16334 Calib Start Date: 11/30/2020 12:50

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 11/30/2020 15:03

Lab File ID: GN30V01.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	0.0057	0.0050		111	125	-11.4	30.0
Benzene	Ave	1.017	0.9504	0.5000	4.67	5.00	-6.5	30.0
1,2-Dichloroethane	Ave	0.2843	0.2627	0.1000	4.62	5.00	-7.6	30.0
t-Amyl methyl ether	Ave	0.7278	0.6845		4.70	5.00	-5.9	30.0
n-Heptane	Ave	0.3945	0.3606		4.57	5.00	-8.6	30.0
n-Butanol	Ave	0.3231	0.2927		226	250	-9.4	30.0
Trichloroethene	Ave	0.2596	0.2419	0.2000	4.66	5.00	-6.8	30.0
Methylcyclohexane	Ave	0.4031	0.3800	0.1000	4.71	5.00	-5.7	30.0
1,2-Dichloropropane	Ave	0.2719	0.2560	0.1000	4.71	5.00	-5.8	30.0
1,4-Dioxane	Ave	0.0575	0.0668	0.0050	145	125	16.3	30.0
Methyl methacrylate	Ave	8.511	8.550		5.02	5.00	0.5	30.0
Dibromomethane	Ave	0.1260	0.1182		4.69	5.00	-6.2	30.0
Bromodichloromethane	Ave	0.3153	0.3029	0.2000	4.80	5.00	-3.9	30.0
2-Nitropropane	Ave	2.413	2.399		4.97	5.00	-0.6	30.0
1-Bromo-2-chloroethane	Ave	0.2915	0.2778		4.77	5.00	-4.7	30.0
cis-1,3-Dichloropropene	Ave	0.4093	0.3852	0.2000	4.71	5.00	-5.9	30.0
4-Methyl-2-pentanone (MIBK)	Ave	11.67	11.75	0.1000	25.2	25.0	0.7	30.0
Toluene	Ave	0.8666	0.7991	0.4000	4.61	5.00	-7.8	30.0
trans-1,3-Dichloropropene	Ave	0.4679	0.4437	0.1000	4.74	5.00	-5.2	30.0
Ethyl methacrylate	Ave	0.4204	0.3987		4.74	5.00	-5.2	30.0
1,1,2-Trichloroethane	Ave	0.2528	0.2457	0.1000	4.86	5.00	-2.8	30.0
Tetrachloroethene	Ave	0.3760	0.3549	0.2000	4.72	5.00	-5.6	30.0
1,3-Dichloropropane	Ave	0.4560	0.4249		4.66	5.00	-6.8	30.0
2-Hexanone	Ave	8.396	8.581	0.1000	25.6	25.0	2.2	30.0
Dibromochloromethane	Ave	0.2998	0.2903		4.84	5.00	-3.2	30.0
1,2-Dibromoethane (EDB)	Ave	0.2482	0.2342	0.1000	4.72	5.00	-5.6	30.0
1-Chlorohexane	Ave	0.5205	0.4525		4.35	5.00	-13.1	30.0
Chlorobenzene	Ave	0.9653	0.9074	0.5000	4.70	5.00	-6.0	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3430	0.3270		4.77	5.00	-4.7	30.0
Ethylbenzene	Ave	1.712	1.599	0.1000	4.67	5.00	-6.6	30.0
m&p-Xylene	Ave	0.6453	0.6073	0.1000	9.41	10.0	-5.9	30.0
o-Xylene	Ave	0.6400	0.6049	0.3000	4.73	5.00	-5.5	30.0
Styrene	Ave	1.091	1.027	0.3000	4.71	5.00	-5.8	30.0
Bromoform	Ave	0.1750	0.1659	0.1000	4.74	5.00	-5.2	30.0
Isopropylbenzene	Ave	1.674	1.575	0.1000	4.70	5.00	-5.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6286	0.5991	0.3000	4.77	5.00	-4.7	30.0
Bromobenzene	Ave	0.7547	0.7134		4.73	5.00	-5.5	30.0
trans-1,4-Dichloro-2-butene	Ave	3.624	3.634		25.1	25.0	0.3	30.0
1,2,3-Trichloropropane	Ave	0.1602	0.1550		4.84	5.00	-3.3	30.0
N-Propylbenzene	Ave	3.763	3.595		4.78	5.00	-4.5	30.0
2-Chlorotoluene	Ave	0.7400	0.7011		4.74	5.00	-5.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Lab Sample ID: ICV 410-70996/10 Calibration Date: 11/30/2020 15:26

Instrument ID: 16334 Calib Start Date: 11/30/2020 12:50

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 11/30/2020 15:03

Lab File ID: GN30V01.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	2.655	2.531		4.77	5.00	-4.6	30.0
4-Chlorotoluene	Ave	0.7716	0.7340		4.76	5.00	-4.9	30.0
tert-Butylbenzene	Ave	0.5668	0.5305		4.68	5.00	-6.4	30.0
Pentachloroethane	Ave	0.4872	0.4720		4.84	5.00	-3.1	30.0
1,2,4-Trimethylbenzene	Ave	2.772	2.598		4.69	5.00	-6.3	30.0
sec-Butylbenzene	Ave	3.453	3.272		4.74	5.00	-5.2	30.0
1,3-Dichlorobenzene	Ave	1.522	1.436	0.6000	4.72	5.00	-5.7	30.0
p-Isopropyltoluene	Ave	3.000	2.846		4.74	5.00	-5.1	30.0
1,4-Dichlorobenzene	Ave	1.550	1.456	0.5000	4.70	5.00	-6.1	30.0
1,2,3-Trimethylbenzene	Ave	1.229	1.217		4.95	5.00	-1.0	30.0
Benzyl chloride	Ave	0.2719	0.2597		4.78	5.00	-4.5	30.0
n-Butylbenzene	Ave	1.589	1.470		4.63	5.00	-7.5	30.0
1,2-Dichlorobenzene	Ave	1.420	1.344	0.4000	4.73	5.00	-5.3	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0916	0.0871	0.0500	4.75	5.00	-4.9	30.0
1,3,5-Trichlorobenzene	Ave	1.275	1.183		4.64	5.00	-7.2	30.0
1,2,4-Trichlorobenzene	Ave	1.175	1.105	0.2000	4.70	5.00	-6.0	30.0
Hexachlorobutadiene	Ave	0.5771	0.5485		4.75	5.00	-5.0	30.0
Naphthalene	Ave	2.139	1.949		4.56	5.00	-8.9	30.0
1,2,3-Trichlorobenzene	Ave	1.037	0.9616		4.63	5.00	-7.3	30.0
Dibromofluoromethane (Surr)	Ave	0.2420	0.2421		10.0	10.0	0.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0515	0.0508		9.86	10.0	-1.4	30.0
Toluene-d8 (Surr)	Ave	1.334	1.336		10.0	10.0	0.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.5094	0.5081		9.97	10.0	-0.3	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30V01.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 30-Nov-2020 15:26:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0016641-010
Misc. Info.: ICV
Operator ID: DVV10203 Instrument ID: 16334
Sublist:

Method: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 01-Dec-2020 19:03:51 Calib Date: 30-Nov-2020 18:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1610

First Level Reviewer: virayd Date: 01-Dec-2020 12:04:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.953	1.953	0.000	99	267093	5.00	4.65	
5 Chloromethane	50	2.148	2.148	0.000	99	355206	5.00	4.58	
6 Butadiene	39	2.264	2.264	0.000	93	345587	5.00	3.91	
7 Vinyl chloride	62	2.264	2.270	-0.006	97	330590	5.00	4.99	
9 Bromomethane	94	2.593	2.593	0.000	90	220846	5.00	4.79	
10 Chloroethane	64	2.666	2.666	0.000	100	190525	5.00	4.74	
11 Dichlorofluoromethane	67	2.904	2.904	0.000	97	416165	5.00	4.62	
13 Trichlorofluoromethane	101	2.971	2.977	-0.006	98	371721	5.00	4.88	
15 Ethyl ether	59	3.208	3.208	0.000	95	245940	5.00	5.47	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	3.300	3.300	0.000	93	287040	5.00	4.61	
18 Acrolein	56	3.385	3.385	0.000	99	245936	37.5	36.1	
19 1,1-Dichloroethene	96	3.519	3.519	0.000	98	215348	5.00	4.68	
21 112TCTFE	101	3.550	3.556	-0.006	92	207005	5.00	4.60	
20 Acetone	43	3.556	3.562	-0.006	99	297377	37.5	33.8	
22 Iodomethane	142	3.708	3.714	-0.006	98	385894	5.00	4.48	
23 Isopropyl alcohol	45	3.733	3.727	0.006	35	60908	37.5	34.7	
24 Ethyl bromide	108	3.739	3.739	0.000	98	192753	5.01	4.80	
25 Carbon disulfide	76	3.812	3.812	0.000	99	781041	5.00	4.60	
26 Methyl acetate	43	3.964	3.971	-0.006	99	123806	5.00	4.65	
27 3-Chloro-1-propene	41	3.989	3.989	0.000	92	429201	5.00	4.66	
28 Methylene Chloride	84	4.178	4.178	0.000	95	254001	5.00	4.81	
* 29 t-Butyl alcohol-d10 (IS)	65	4.208	4.202	0.006	0	179392	50.0	50.0	
30 2-Methyl-2-propanol	59	4.324	4.336	-0.012	99	155815	50.0	48.3	
31 Acrylonitrile	53	4.519	4.525	-0.006	99	297117	25.0	26.1	
32 Methyl tert-butyl ether	73	4.580	4.580	0.000	96	659564	5.00	4.51	
33 trans-1,2-Dichloroethene	96	4.580	4.586	-0.006	98	251292	5.00	4.74	
34 Hexane	57	5.007	5.007	0.000	94	343809	5.00	4.45	
36 1,1-Dichloroethane	63	5.251	5.251	0.000	96	471094	5.00	4.79	
37 Isopropyl ether	45	5.306	5.306	0.000	96	927579	5.00	4.63	
38 2-Chloro-1,3-butadiene	53	5.360	5.360	0.000	91	409377	5.00	4.57	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.836	5.836	0.000	99	845008	5.00	4.63	
40 2-Butanone (MEK)	43	6.043	6.049	-0.006	100	619774	37.5	38.0	
41 cis-1,2-Dichloroethene	96	6.086	6.086	0.000	83	297814	5.00	5.00	
42 2,2-Dichloropropane	77	6.092	6.092	0.000	86	388867	5.00	4.71	
44 Propionitrile	54	6.153	6.147	0.006	98	140400	37.5	34.7	
46 Methacrylonitrile	67	6.360	6.360	0.000	94	557295	37.5	37.2	
48 Chlorobromomethane	128	6.409	6.409	0.000	95	123040	5.00	4.64	
47 Tetrahydrofuran	71	6.421	6.409	0.012	78	110891	25.0	26.3	
50 Chloroform	83	6.561	6.561	0.000	93	446942	5.00	4.71	
$ 52 Dibromofluoromethane (Surr)	113	6.781	6.781	0.000	94	535394	10.0	10.0	
51 1,1,1-Trichloroethane	97	6.787	6.787	0.000	98	376570	5.00	4.64	
53 Cyclohexane	56	6.878	6.878	0.000	92	433837	5.00	4.65	
56 Carbon tetrachloride	117	6.994	7.000	-0.006	94	329779	5.00	4.69	
55 1,1-Dichloropropene	75	7.000	7.000	0.000	96	354186	5.00	4.64	
57 Isobutyl alcohol	41	7.165	7.165	0.000	94	138400	125.0	110.7	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.232	7.232	0.000	0	112249	10.0	9.86	
59 Benzene	78	7.263	7.263	0.000	97	1050827	5.00	4.67	
60 1,2-Dichloroethane	62	7.336	7.336	0.000	97	290495	5.00	4.62	M
62 Tert-amyl methyl ether	73	7.452	7.458	-0.006	98	756827	5.00	4.70	
* 63 Fluorobenzene (IS)	96	7.671	7.671	0.000	98	2211317	10.0	10.0	
64 n-Heptane	43	7.677	7.677	0.000	94	398665	5.00	4.57	
65 n-Butanol	56	8.049	8.049	0.000	90	262496	250.0	226.5	
67 Trichloroethene	95	8.147	8.147	0.000	99	267510	5.00	4.66	
68 Methylcyclohexane	83	8.451	8.451	0.000	95	420203	5.00	4.71	
69 1,2-Dichloropropane	63	8.482	8.482	0.000	85	283073	5.00	4.71	
70 2-ethoxy-2-methyl butane	87	8.488	8.488	0.000	91	420551	5.00	4.78	
72 1,4-Dioxane	88	8.567	8.567	0.000	30	29971	125.0	145.3	M
71 Methyl methacrylate	69	8.567	8.567	0.000	93	153384	5.00	5.02	
73 Dibromomethane	93	8.592	8.585	0.007	96	130736	5.00	4.69	
75 Dichlorobromomethane	83	8.823	8.823	0.000	100	334899	5.00	4.80	
76 2-Nitropropane	41	9.110	9.110	0.000	98	43035	5.00	4.97	
78 2-Chloroethyl vinyl ether	63		9.195				ND	ND	
79 1-Bromo-2-chloroethane	63	9.219	9.219	0.000	98	307205	5.00	4.77	
80 cis-1,3-Dichloropropene	75	9.378	9.378	0.000	95	425919	5.00	4.71	
81 4-Methyl-2-pentanone (MIBK)	43	9.561	9.561	0.000	98	1053892	25.0	25.2	
$ 82 Toluene-d8 (Surr)	98	9.689	9.689	0.000	94	2139566	10.0	10.0	
83 Toluene	92	9.762	9.762	0.000	99	639770	5.00	4.61	
84 trans-1,3-Dichloropropene	75	10.024	10.024	0.000	94	355211	5.00	4.74	
85 Ethyl methacrylate	69	10.085	10.085	0.000	91	319181	5.00	4.74	
86 1,1,2-Trichloroethane	97	10.231	10.231	0.000	91	196724	5.00	4.86	
88 Tetrachloroethene	166	10.311	10.311	0.000	97	284108	5.00	4.72	
89 1,3-Dichloropropane	76	10.390	10.396	-0.006	92	340186	5.00	4.66	
91 2-Hexanone	43	10.451	10.451	0.000	98	769685	25.0	25.6	
93 Chlorodibromomethane	129	10.603	10.603	0.000	90	232451	5.00	4.84	
94 Ethylene Dibromide	107	10.713	10.713	0.000	98	187535	5.00	4.72	
* 95 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	86	1601223	10.0	10.0	
96 1-Chlorohexane	91	11.158	11.158	0.000	97	362277	5.00	4.35	
97 Chlorobenzene	112	11.176	11.176	0.000	94	726467	5.00	4.70	
98 1,1,1,2-Tetrachloroethane	131	11.256	11.256	0.000	96	261798	5.00	4.77	
99 Ethylbenzene	91	11.262	11.262	0.000	99	1279967	5.00	4.67	
100 m-Xylene & p-Xylene	106	11.378	11.378	0.000	97	972480	10.0	9.41	
102 o-Xylene	106	11.707	11.707	0.000	97	484319	5.00	4.73	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 Styrene	104	11.719	11.719	0.000	94	822532	5.00	4.71	
104 Bromoform	173	11.878	11.877	0.001	97	132838	5.00	4.74	
105 Isopropylbenzene	105	12.006	12.006	0.000	96	1261145	5.00	4.70	
$ 108 4-Bromofluorobenzene (Surr)	95	12.152	12.152	0.000	91	813558	10.0	9.97	
109 1,1,2,2-Tetrachloroethane	83	12.255	12.255	0.000	93	258348	5.00	4.77	
110 Bromobenzene	156	12.268	12.268	0.000	96	307662	5.00	4.73	
111 trans-1,4-Dichloro-2-butene	53	12.280	12.280	0.000	93	325926	25.0	25.1	
112 1,2,3-Trichloropropane	110	12.298	12.304	-0.006	82	66839	5.00	4.84	
113 N-Propylbenzene	91	12.335	12.335	0.000	99	1550266	5.00	4.78	
114 2-Chlorotoluene	126	12.414	12.414	0.000	96	302371	5.00	4.74	
115 1,3,5-Trimethylbenzene	105	12.469	12.469	0.000	94	1091590	5.00	4.77	
116 4-Chlorotoluene	126	12.505	12.505	0.000	98	316533	5.00	4.76	
118 tert-Butylbenzene	134	12.713	12.713	0.000	94	228776	5.00	4.68	
120 Pentachloroethane	167	12.743	12.743	0.000	91	203574	5.00	4.84	
119 1,2,4-Trimethylbenzene	105	12.755	12.755	0.000	97	1120562	5.00	4.69	
121 sec-Butylbenzene	105	12.877	12.877	0.000	94	1411165	5.00	4.74	
122 1,3-Dichlorobenzene	146	12.975	12.975	0.000	98	619173	5.00	4.72	
123 4-Isopropyltoluene	119	12.981	12.981	0.000	97	1227233	5.00	4.74	
* 124 1,4-Dichlorobenzene-d4	152	13.030	13.030	0.000	95	862512	10.0	10.0	
125 1,4-Dichlorobenzene	146	13.048	13.048	0.000	94	628073	5.00	4.70	
126 1,2,3-Trimethylbenzene	120	13.060	13.060	0.000	99	524945	5.00	4.95	
127 Benzyl chloride	126	13.127	13.127	0.000	99	111979	5.00	4.78	
129 p-Diethylbenzene	119	13.182	13.182	0.000	92	749547	5.00	4.77	
130 n-Butylbenzene	92	13.274	13.274	0.000	98	633928	5.00	4.63	
131 1,2-Dichlorobenzene	146	13.310	13.310	0.000	99	579605	5.00	4.73	
134 1,2-Dibromo-3-Chloropropane	155	13.853	13.853	0.000	85	37558	5.00	4.75	
135 1,3,5-Trichlorobenzene	180	13.975	13.975	0.000	98	510248	5.00	4.64	
136 1,2,4-Trichlorobenzene	180	14.395	14.395	0.000	94	476558	5.00	4.70	
137 Hexachlorobutadiene	225	14.481	14.481	0.000	96	236549	5.00	4.75	
138 Naphthalene	128	14.578	14.578	0.000	97	840564	5.00	4.56	
139 1,2,3-Trichlorobenzene	180	14.718	14.718	0.000	95	414693	5.00	4.63	
140 2-Methylnaphthalene	142	15.340	15.340	0.000	93	560337	5.00	4.25	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_Q_QARC_00056	Amount Added:	12.50	Units: uL	
MSV_Q_QVOA6_00054	Amount Added:	12.50	Units: uL	
MSV_Q_QVOA1_00057	Amount Added:	12.50	Units: uL	
MSV_Q_EE_00003	Amount Added:	12.50	Units: uL	
MSV_Q_ETBR_00005	Amount Added:	12.50	Units: uL	
MSV_QGAS_826_00093	Amount Added:	12.50	Units: uL	
MSV_29_826ISS_00013	Amount Added:	1.00	Units: uL	Run Reagent

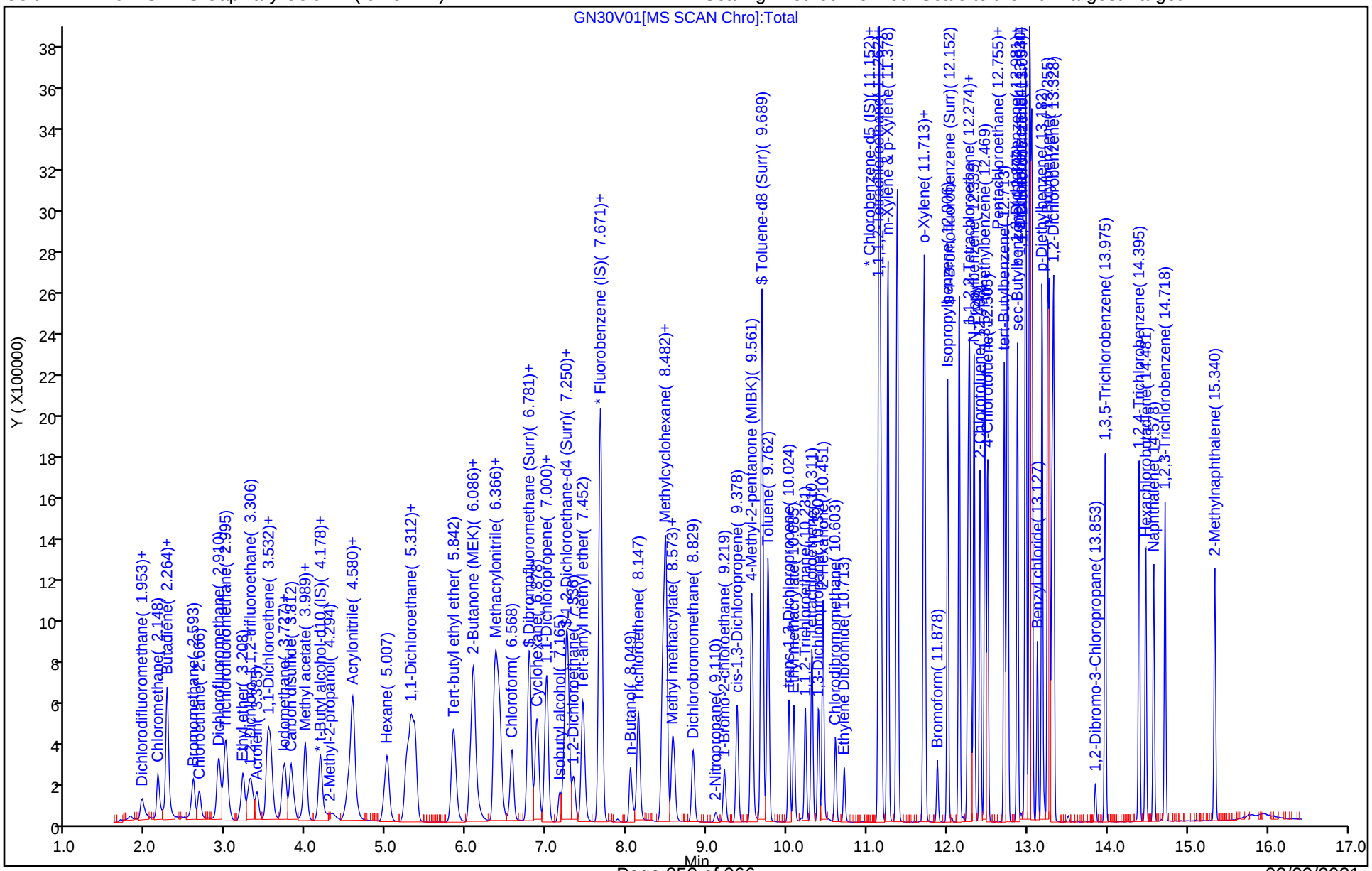
Report Date: 01-Dec-2020 19:03:56 Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30V01.D

Injection Date:	30-Nov-2020 15:26:30	Instrument ID:	16334	Operator ID:	DVV10203
Lims ID:	ICV			Worklist Smp#:	10
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
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: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

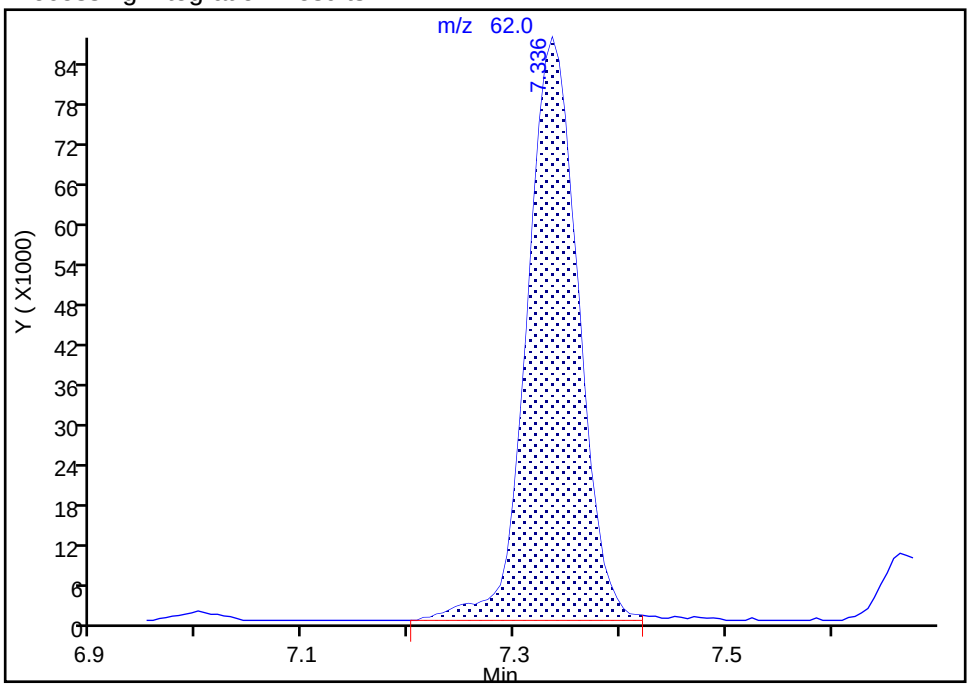
Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30V01.D				
Injection Date:	30-Nov-2020 15:26:30	Instrument ID:	16334		
Lims ID:	ICV				
Client ID:					
Operator ID:	DVV10203	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

60 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

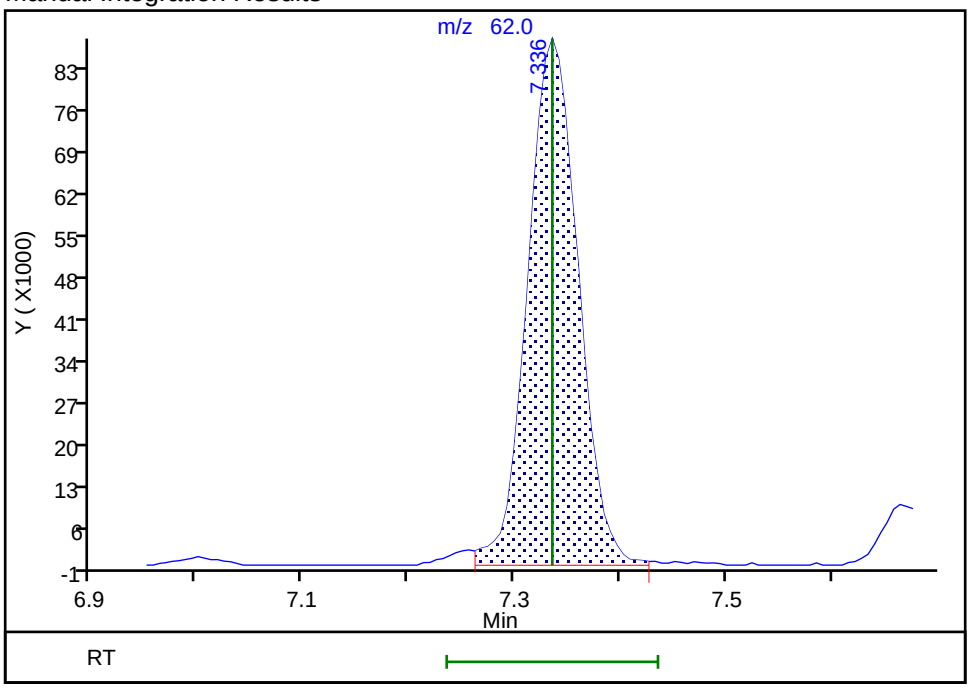
Processing Integration Results

RT: 7.34
Area: 294206
Amount: 4.680182
Amount Units: ug/l



Manual Integration Results

RT: 7.34
Area: 290495
Amount: 4.621148
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 12:02:36
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

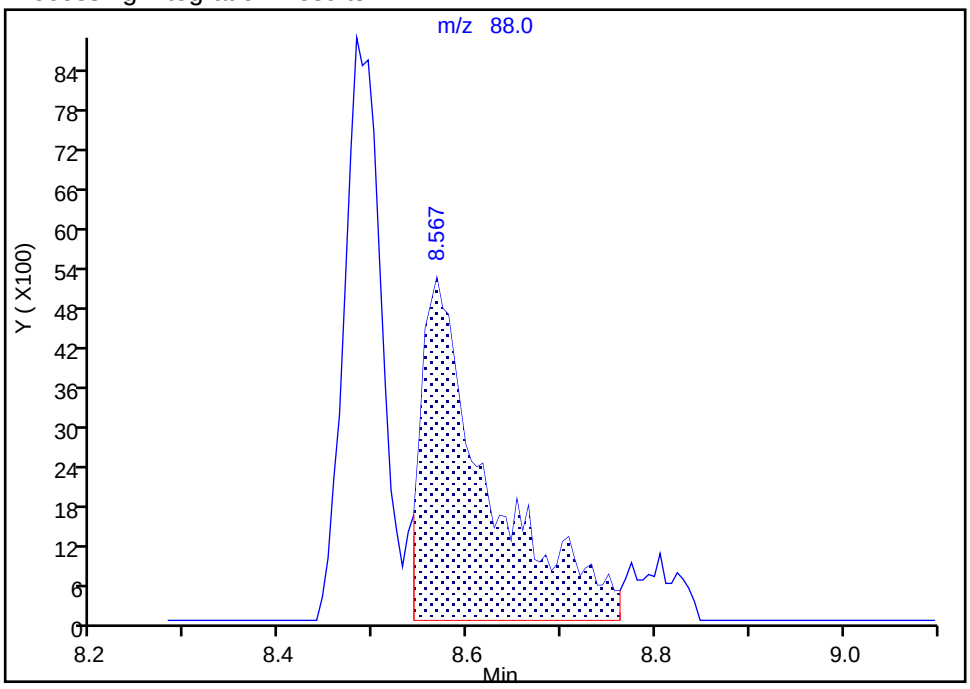
Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30V01.D
Injection Date: 30-Nov-2020 15:26:30 Instrument ID: 16334
Lims ID: ICV
Client ID:
Operator ID: DVV10203 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_16334_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

72 1,4-Dioxane, CAS: 123-91-1

Signal: 1

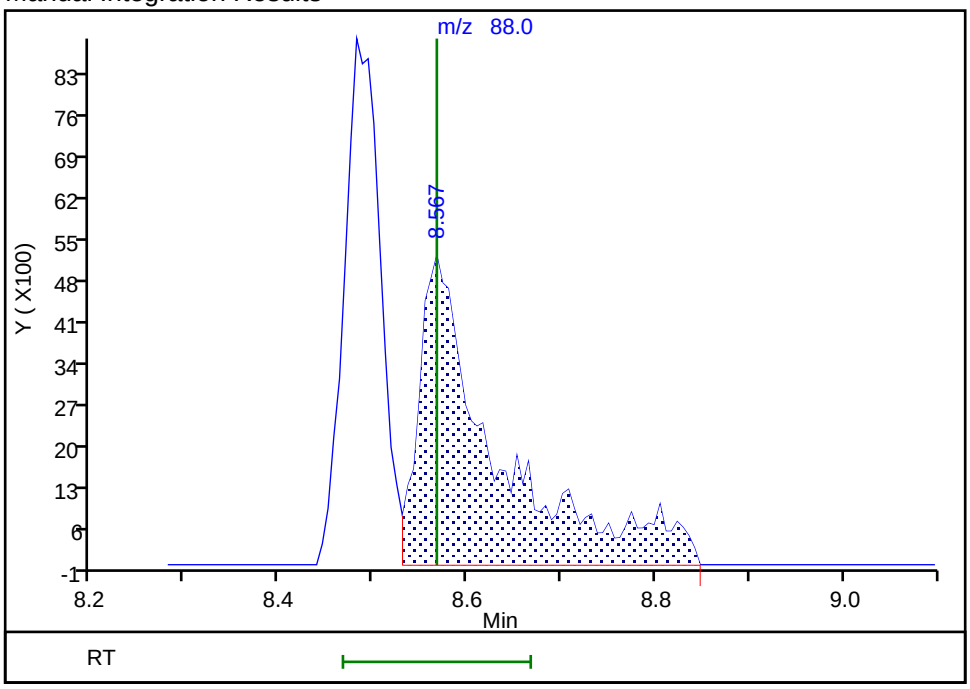
Processing Integration Results

RT: 8.57
Area: 25930
Amount: 125.7342
Amount Units: ug/l



Manual Integration Results

RT: 8.57
Area: 29971
Amount: 145.3290
Amount Units: ug/l



Reviewer: virayd, 01-Dec-2020 12:02:49
Audit Action: Manually Integrated Audit Reason: Other

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Lab Sample ID: CCVIS 410-99025/3 Calibration Date: 03/03/2021 09:17

Instrument ID: 16334 Calib Start Date: 11/30/2020 12:50

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 11/30/2020 15:03

Lab File ID: GM03X03.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	0.2600	0.2468	0.1000	9.49	10.0	-5.1	20.0
Chloromethane	Ave	0.3508	0.2749	0.1000	7.84	10.0	-21.6*	20.0
1,3-Butadiene	Ave	0.3993	0.4844		12.1	10.0	21.3*	20.0
Vinyl chloride	Ave	0.2995	0.2528	0.1000	8.44	10.0	-15.6	20.0
Bromomethane	Ave	0.2087	0.1802	0.1000	8.63	10.0	-13.7	20.0
Chloroethane	Ave	0.1817	0.1582	0.1000	8.71	10.0	-12.9	20.0
Dichlorofluoromethane	Ave	0.4073	0.2819		6.92	10.0	-30.8*	20.0
Trichlorofluoromethane	Ave	0.3447	0.3388	0.1000	9.83	10.0	-1.7	20.0
Ethyl ether	Ave	0.2035	0.1750		8.60	10.0	-14.0	20.0
Freon 123a	Ave	0.2817	0.2362		8.39	10.0	-16.1	20.0
Acrolein	Ave	1.898	1.656		436	500	-12.8	20.0
1,1-Dichloroethene	Ave	0.2083	0.1806	0.1000	8.67	10.0	-13.3	20.0
Acetone	Ave	2.453	2.135	0.1000	87.0	100	-13.0	20.0
Freon 113	Ave	0.2037	0.1996	0.1000	9.80	10.0	-2.0	20.0
Methyl iodide	Ave	0.3891	0.3403		8.75	10.0	-12.5	20.0
Ethyl bromide	Ave	0.1814	0.1647		9.08	10.0	-9.2	20.0
Carbon disulfide	Ave	0.7678	0.6213	0.1000	8.09	10.0	-19.1	20.0
Methyl acetate	Ave	7.427	6.272	0.1000	8.45	10.0	-15.5	20.0
Allyl chloride	Ave	0.4168	0.3175		7.62	10.0	-23.8*	20.0
Methylene Chloride	Ave	0.2387	0.2096	0.1000	8.78	10.0	-12.2	20.0
t-Butyl alcohol	Ave	0.8990	0.8896		198	200	-1.0	20.0
Acrylonitrile	Ave	3.174	3.056		48.1	50.0	-3.7	20.0
Methyl tert-butyl ether	Ave	0.6620	0.5436	0.1000	8.21	10.0	-17.9	20.0
trans-1,2-Dichloroethene	Ave	0.2398	0.2102	0.1000	8.76	10.0	-12.4	20.0
n-Hexane	Ave	0.3497	0.3172		9.07	10.0	-9.3	20.0
1,1-Dichloroethane	Ave	0.4451	0.3830	0.2000	8.60	10.0	-14.0	20.0
di-Isopropyl ether	Ave	0.9055	0.6948		7.67	10.0	-23.3*	20.0
2-Chloro-1,3-butadiene	Ave	0.4048	0.3191		7.88	10.0	-21.2*	20.0
Ethyl t-butyl ether	Ave	0.8257	0.6562		7.95	10.0	-20.5*	20.0
2-Butanone (MEK)	Ave	4.546	4.033	0.1000	88.7	100	-11.3	20.0
cis-1,2-Dichloroethene	Ave	0.2693	0.2411	0.1000	8.95	10.0	-10.5	20.0
2,2-Dichloropropane	Ave	0.3733	0.3141		8.41	10.0	-15.9	20.0
Propionitrile	Ave	1.127	1.067		189	200	-5.4	20.0
Methacrylonitrile	Ave	4.178	3.838		91.9	100	-8.1	20.0
Bromochloromethane	Ave	0.1200	0.1156		9.63	10.0	-3.7	20.0
Tetrahydrofuran	Ave	1.175	1.127		95.9	100	-4.1	20.0
Chloroform	Ave	0.4289	0.3740	0.2000	8.72	10.0	-12.8	20.0
1,1,1-Trichloroethane	Ave	0.3670	0.3233	0.1000	8.81	10.0	-11.9	20.0
Cyclohexane	Ave	0.4218	0.3702	0.1000	8.78	10.0	-12.2	20.0
Carbon tetrachloride	Ave	0.3183	0.2877	0.1000	9.04	10.0	-9.6	20.0
1,1-Dichloropropene	Ave	0.3449	0.3077		8.92	10.0	-10.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Lab Sample ID: CCVIS 410-99025/3 Calibration Date: 03/03/2021 09:17

Instrument ID: 16334 Calib Start Date: 11/30/2020 12:50

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 11/30/2020 15:03

Lab File ID: GM03X03.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	0.0057	0.0047		417	500	-16.6	20.0
Benzene	Ave	1.017	0.8870	0.5000	8.73	10.0	-12.7	20.0
1,2-Dichloroethane	Ave	0.2843	0.2383	0.1000	8.38	10.0	-16.2	20.0
t-Amyl methyl ether	Ave	0.7278	0.5955		8.18	10.0	-18.2	20.0
n-Heptane	Ave	0.3945	0.3378		8.56	10.0	-14.4	20.0
n-Butanol	Ave	0.3231	0.2826		875	1000	-12.5	20.0
Trichloroethene	Ave	0.2596	0.2319	0.2000	8.93	10.0	-10.7	20.0
Methylcyclohexane	Ave	0.4031	0.4129	0.1000	10.2	10.0	2.4	20.0
1,2-Dichloropropane	Ave	0.2719	0.2360	0.1000	8.68	10.0	-13.2	20.0
1,4-Dioxane	Ave	0.0575	0.0618	0.0050	537	500	7.5	20.0
Methyl methacrylate	Ave	8.511	7.198		8.46	10.0	-15.4	20.0
Dibromomethane	Ave	0.1260	0.1127		8.94	10.0	-10.6	20.0
Bromodichloromethane	Ave	0.3153	0.2757	0.2000	8.74	10.0	-12.6	20.0
2-Nitropropane	Ave	2.413	1.993		82.6	100	-17.4	20.0
1-Bromo-2-chloroethane	Ave	0.2915	0.2440		8.37	10.0	-16.3	20.0
cis-1,3-Dichloropropene	Ave	0.4093	0.3443	0.2000	8.41	10.0	-15.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	11.67	10.25	0.1000	87.8	100	-12.2	20.0
Toluene	Ave	0.8666	0.7753	0.4000	8.95	10.0	-10.5	20.0
trans-1,3-Dichloropropene	Ave	0.4679	0.4007	0.1000	8.56	10.0	-14.4	20.0
Ethyl methacrylate	Ave	0.4204	0.3504		8.33	10.0	-16.7	20.0
1,1,2-Trichloroethane	Ave	0.2528	0.2318	0.1000	9.17	10.0	-8.3	20.0
Tetrachloroethene	Ave	0.3760	0.3592	0.2000	9.55	10.0	-4.5	20.0
1,3-Dichloropropane	Ave	0.4560	0.4043		8.87	10.0	-11.3	20.0
2-Hexanone	Ave	8.396	7.265	0.1000	86.5	100	-13.5	20.0
Dibromochloromethane	Ave	0.2998	0.2754		9.19	10.0	-8.1	20.0
1,2-Dibromoethane (EDB)	Ave	0.2482	0.2266	0.1000	9.13	10.0	-8.7	20.0
1-Chlorohexane	Ave	0.5205	0.4548		8.74	10.0	-12.6	20.0
Chlorobenzene	Ave	0.9653	0.8848	0.5000	9.17	10.0	-8.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3430	0.3186		9.29	10.0	-7.1	20.0
Ethylbenzene	Ave	1.712	1.517	0.1000	8.86	10.0	-11.4	20.0
m&p-Xylene	Ave	0.6453	0.5960	0.1000	18.5	20.0	-7.7	20.0
o-Xylene	Ave	0.6400	0.5975	0.3000	9.34	10.0	-6.6	20.0
Styrene	Ave	1.091	1.005	0.3000	9.21	10.0	-7.9	20.0
Bromoform	Ave	0.1750	0.1676	0.1000	9.58	10.0	-4.2	20.0
Isopropylbenzene	Ave	1.674	1.546	0.1000	9.24	10.0	-7.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6286	0.5454	0.3000	8.68	10.0	-13.2	20.0
Bromobenzene	Ave	0.7547	0.6986		9.26	10.0	-7.4	20.0
trans-1,4-Dichloro-2-butene	Ave	3.624	2.229		61.5	100	-38.5*	20.0
1,2,3-Trichloropropane	Ave	0.1602	0.1475		9.21	10.0	-7.9	20.0
N-Propylbenzene	Ave	3.763	3.277		8.71	10.0	-12.9	20.0
2-Chlorotoluene	Ave	0.7400	0.6635		8.97	10.0	-10.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Lab Sample ID: CCVIS 410-99025/3 Calibration Date: 03/03/2021 09:17

Instrument ID: 16334 Calib Start Date: 11/30/2020 12:50

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 11/30/2020 15:03

Lab File ID: GM03X03.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	2.655	2.394		9.02	10.0	-9.8	20.0
4-Chlorotoluene	Ave	0.7716	0.6931		8.98	10.0	-10.2	20.0
tert-Butylbenzene	Ave	0.5668	0.5242		9.25	10.0	-7.5	20.0
Pentachloroethane	Ave	0.4872	0.4648		9.54	10.0	-4.6	20.0
1,2,4-Trimethylbenzene	Ave	2.772	2.484		8.96	10.0	-10.4	20.0
sec-Butylbenzene	Ave	3.453	3.143		9.10	10.0	-9.0	20.0
1,3-Dichlorobenzene	Ave	1.522	1.394	0.6000	9.16	10.0	-8.4	20.0
p-Isopropyltoluene	Ave	3.000	2.712		9.04	10.0	-9.6	20.0
1,4-Dichlorobenzene	Ave	1.550	1.417	0.5000	9.14	10.0	-8.6	20.0
1,2,3-Trimethylbenzene	Ave	1.229	1.140		9.28	10.0	-7.2	20.0
Benzyl chloride	Ave	0.2719	0.2275		8.37	10.0	-16.3	20.0
n-Butylbenzene	Ave	1.589	1.408		8.86	10.0	-11.4	20.0
1,2-Dichlorobenzene	Ave	1.420	1.305	0.4000	9.19	10.0	-8.1	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0916	0.0864	0.0500	9.43	10.0	-5.7	20.0
1,3,5-Trichlorobenzene	Ave	1.275	1.165		9.13	10.0	-8.7	20.0
1,2,4-Trichlorobenzene	Ave	1.175	1.072	0.2000	9.12	10.0	-8.8	20.0
Hexachlorobutadiene	Ave	0.5771	0.5413		9.38	10.0	-6.2	20.0
Naphthalene	Ave	2.139	1.936		9.05	10.0	-9.5	20.0
1,2,3-Trichlorobenzene	Ave	1.037	0.9445		9.10	10.0	-9.0	20.0
Dibromofluoromethane (Surr)	Ave	0.2420	0.2461		10.2	10.0	1.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0515	0.0523		10.2	10.0	1.6	20.0
Toluene-d8 (Surr)	Ave	1.334	1.358		10.2	10.0	1.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5094	0.4976		9.77	10.0	-2.3	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X03.D
Lims ID: CCVIS VSTD10
Client ID:
Sample Type: CCVIS
Inject. Date: 03-Mar-2021 09:17:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023166-003
Misc. Info.: CCVIS VSTD10
Operator ID: SRK36897 Instrument ID: 16334
Sublist: chrom-MSV_16334_25mL*sub4

Method: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2021 14:02:48 Calib Date: 30-Nov-2020 18:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1663

First Level Reviewer: knouses Date: 03-Mar-2021 10:05:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.940	1.940	0.000	99	490959	10.0	9.49	
5 Chloromethane	50	2.136	2.136	0.000	98	546760	10.0	7.84	
7 Butadiene	39	2.245	2.245	0.000	90	963550	10.0	12.1	
8 Vinyl chloride	62	2.251	2.251	0.000	68	502902	10.0	8.44	
9 Bromomethane	94	2.568	2.568	0.000	90	358351	10.0	8.63	
10 Chloroethane	64	2.660	2.660	0.000	100	314672	10.0	8.71	
12 Dichlorofluoromethane	67	2.892	2.892	0.000	97	560631	10.0	6.92	
13 Trichlorofluoromethane	101	2.952	2.952	0.000	97	673911	10.0	9.83	
15 Ethyl ether	59	3.202	3.202	0.000	91	348233	10.0	8.60	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.282	3.282	0.000	93	469867	10.0	8.39	
18 Acrolein	56	3.373	3.373	0.000	100	2772054	500.0	436.2	
19 1,1-Dichloroethene	96	3.507	3.507	0.000	98	359314	10.0	8.67	
20 112TCTFE	101	3.544	3.544	0.000	85	396927	10.0	9.80	
21 Acetone	43	3.544	3.544	0.000	100	715004	100.0	87.0	
23 Iodomethane	142	3.696	3.696	0.000	98	676976	10.0	8.75	
22 Isopropyl alcohol	45	3.721	3.721	0.000	53	291211	200.0	184.6	
24 Ethyl bromide	108	3.727	3.727	0.000	98	327765	10.0	9.08	
25 Carbon disulfide	76	3.794	3.794	0.000	99	1235712	10.0	8.09	
27 Methyl acetate	43	3.952	3.952	0.000	98	210052	10.0	8.45	
28 3-Chloro-1-propene	41	3.977	3.977	0.000	94	631453	10.0	7.62	
29 Methylene Chloride	84	4.166	4.166	0.000	93	416964	10.0	8.78	
* 30 t-Butyl alcohol-d10 (IS)	65	4.178	4.178	0.000	0	167452	50.0	50.0	
31 2-Methyl-2-propanol	59	4.306	4.306	0.000	100	595881	200.0	197.9	
32 Acrylonitrile	53	4.507	4.507	0.000	100	511751	50.0	48.1	
33 Methyl tert-butyl ether	73	4.568	4.568	0.000	95	1081311	10.0	8.21	
34 trans-1,2-Dichloroethene	96	4.568	4.568	0.000	100	418079	10.0	8.76	
35 Hexane	57	4.995	4.995	0.000	92	630852	10.0	9.07	
37 1,1-Dichloroethane	63	5.239	5.239	0.000	96	761769	10.0	8.60	
38 Isopropyl ether	45	5.300	5.300	0.000	95	1381932	10.0	7.67	
39 2-Chloro-1,3-butadiene	53	5.342	5.342	0.000	90	634739	10.0	7.88	

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	1305300	10.0	7.95	
41 2-Butanone (MEK)	43	6.049	6.049	0.000	100	1350796	100.0	88.7	
42 cis-1,2-Dichloroethene	96	6.080	6.080	0.000	82	479497	10.0	8.95	
43 2,2-Dichloropropane	77	6.086	6.086	0.000	85	624777	10.0	8.41	
45 Propionitrile	54	6.147	6.147	0.000	99	714413	200.0	189.3	
48 Methacrylonitrile	67	6.360	6.360	0.000	92	1285351	100.0	91.9	
49 Chlorobromomethane	128	6.403	6.403	0.000	97	229929	10.0	9.63	
50 Tetrahydrofuran	71	6.409	6.409	0.000	87	377404	100.0	95.9	
51 Chloroform	83	6.562	6.562	0.000	93	743874	10.0	8.72	
$ 52 Dibromofluoromethane (Surr)	113	6.775	6.775	0.000	94	489602	10.0	10.2	
53 1,1,1-Trichloroethane	97	6.787	6.787	0.000	98	643117	10.0	8.81	
54 Cyclohexane	56	6.872	6.872	0.000	90	736394	10.0	8.78	
56 Carbon tetrachloride	117	6.988	6.988	0.000	96	572164	10.0	9.04	
57 1,1-Dichloropropene	75	7.000	7.000	0.000	99	612128	10.0	8.92	
58 Isobutyl alcohol	41	7.165	7.165	0.000	95	469003	500.0	417.0	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.232	7.232	0.000	0	104084	10.0	10.2	
60 Benzene	78	7.263	7.263	0.000	97	1764275	10.0	8.73	
61 1,2-Dichloroethane	62	7.336	7.336	0.000	97	474090	10.0	8.38	
63 Tert-amyl methyl ether	73	7.452	7.452	0.000	99	1184408	10.0	8.18	
* 64 Fluorobenzene (IS)	96	7.665	7.665	0.000	99	1989071	10.0	10.0	
65 n-Heptane	43	7.671	7.671	0.000	90	671996	10.0	8.56	
67 n-Butanol	56	8.043	8.043	0.000	88	946485	1000.0	874.8	
68 Trichloroethene	95	8.140	8.140	0.000	98	461192	10.0	8.93	
69 Methylcyclohexane	83	8.445	8.445	0.000	91	821355	10.0	10.2	
70 1,2-Dichloropropane	63	8.482	8.482	0.000	89	469452	10.0	8.68	
71 2-ethoxy-2-methyl butane	87	8.488	8.488	0.000	93	684348	10.0	8.65	
72 Methyl methacrylate	69	8.567	8.567	0.000	90	241078	10.0	8.46	
73 1,4-Dioxane	88	8.567	8.567	0.000	35	103441	500.0	537.3	M
74 Dibromomethane	93	8.586	8.586	0.000	94	224219	10.0	8.94	
76 Dichlorobromomethane	83	8.823	8.823	0.000	100	548304	10.0	8.74	
77 2-Nitropropane	41	9.110	9.110	0.000	98	667500	100.0	82.6	
80 1-Bromo-2-chloroethane	63	9.213	9.213	0.000	98	485411	10.0	8.37	
81 cis-1,3-Dichloropropene	75	9.372	9.372	0.000	97	684845	10.0	8.41	
82 4-Methyl-2-pentanone (MIBK)	43	9.555	9.555	0.000	96	3433830	100.0	87.8	
$ 83 Toluene-d8 (Surr)	98	9.683	9.683	0.000	93	1949770	10.0	10.2	
84 Toluene	92	9.762	9.762	0.000	98	1112900	10.0	8.95	
96 trans-1,3-Dichloropropene	75	10.018	10.018	0.000	91	575153	10.0	8.56	
98 Ethyl methacrylate	69	10.079	10.079	0.000	89	502968	10.0	8.33	
99 1,1,2-Trichloroethane	97	10.225	10.225	0.000	89	332811	10.0	9.17	
100 Tetrachloroethene	166	10.311	10.311	0.000	98	515678	10.0	9.55	
101 1,3-Dichloropropane	76	10.390	10.390	0.000	88	580377	10.0	8.87	
102 2-Hexanone	43	10.445	10.445	0.000	96	2433044	100.0	86.5	
104 Chlorodibromomethane	129	10.603	10.603	0.000	90	395344	10.0	9.19	
105 Ethylene Dibromide	107	10.707	10.707	0.000	99	325290	10.0	9.13	
* 106 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	85	1435532	10.0	10.0	
107 1-Chlorohexane	91	11.152	11.152	0.000	97	652949	10.0	8.74	
108 Chlorobenzene	112	11.170	11.170	0.000	95	1270135	10.0	9.17	
110 1,1,1,2-Tetrachloroethane	131	11.250	11.250	0.000	96	457307	10.0	9.29	
111 Ethylbenzene	91	11.256	11.256	0.000	98	2177413	10.0	8.86	
112 m-Xylene & p-Xylene	106	11.372	11.372	0.000	97	1711084	20.0	18.5	
113 o-Xylene	106	11.701	11.701	0.000	94	857788	10.0	9.34	
114 Styrene	104	11.713	11.713	0.000	94	1442383	10.0	9.21	

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	240619	10.0	9.58	
116 Isopropylbenzene	105	11.999	11.999	0.000	95	2219463	10.0	9.24	
$ 119 4-Bromofluorobenzene (Surr)	95	12.140	12.140	0.000	91	714259	10.0	9.77	
120 1,1,2,2-Tetrachloroethane	83	12.249	12.249	0.000	93	433716	10.0	8.68	
121 Bromobenzene	156	12.256	12.256	0.000	96	555559	10.0	9.26	
122 trans-1,4-Dichloro-2-butene	53	12.274	12.274	0.000	89	746401	100.0	61.5	
123 1,2,3-Trichloropropane	110	12.292	12.292	0.000	82	117310	10.0	9.21	
124 N-Propylbenzene	91	12.329	12.329	0.000	99	2605880	10.0	8.71	
125 2-Chlorotoluene	126	12.402	12.402	0.000	97	527636	10.0	8.97	
126 1,3,5-Trimethylbenzene	105	12.463	12.463	0.000	94	1903982	10.0	9.02	
127 4-Chlorotoluene	126	12.493	12.493	0.000	97	551172	10.0	8.98	
128 tert-Butylbenzene	134	12.707	12.707	0.000	93	416814	10.0	9.25	
129 Pentachloroethane	167	12.737	12.737	0.000	95	369614	10.0	9.54	
130 1,2,4-Trimethylbenzene	105	12.743	12.743	0.000	97	1975207	10.0	8.96	
131 sec-Butylbenzene	105	12.865	12.865	0.000	94	2499169	10.0	9.10	
132 1,3-Dichlorobenzene	146	12.963	12.963	0.000	98	1108473	10.0	9.16	
133 4-Isopropyltoluene	119	12.975	12.975	0.000	97	2156875	10.0	9.04	
* 134 1,4-Dichlorobenzene-d4	152	13.018	13.018	0.000	94	795212	10.0	10.0	
135 1,4-Dichlorobenzene	146	13.036	13.036	0.000	95	1126632	10.0	9.14	
136 1,2,3-Trimethylbenzene	120	13.048	13.048	0.000	98	906876	10.0	9.28	
137 Benzyl chloride	126	13.115	13.115	0.000	98	180871	10.0	8.37	
138 p-Diethylbenzene	119	13.170	13.170	0.000	91	1361992	10.0	9.40	
139 n-Butylbenzene	92	13.261	13.261	0.000	98	1119447	10.0	8.86	
140 1,2-Dichlorobenzene	146	13.298	13.298	0.000	99	1037780	10.0	9.19	
142 1,2-Dibromo-3-Chloropropane	155	13.835	13.835	0.000	88	68679	10.0	9.43	
143 1,3,5-Trichlorobenzene	180	13.956	13.956	0.000	98	926140	10.0	9.13	
144 1,2,4-Trichlorobenzene	180	14.377	14.377	0.000	94	852793	10.0	9.12	
145 Hexachlorobutadiene	225	14.462	14.462	0.000	96	430469	10.0	9.38	
146 Naphthalene	128	14.560	14.560	0.000	97	1539462	10.0	9.05	
147 1,2,3-Trichlorobenzene	180	14.700	14.700	0.000	96	751067	10.0	9.10	
148 2-Methylnaphthalene	142	15.316	15.316	0.000	92	1116489	10.0	9.18	
160 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00040	Amount Added: 10.00	Units: uL	
MSV_RV4_826_00045	Amount Added: 10.00	Units: uL	
MSV_RV4GAS826_00115	Amount Added: 10.00	Units: uL	
MSV_29_826ISS_00015	Amount Added: 1.00	Units: uL	Run Reagent

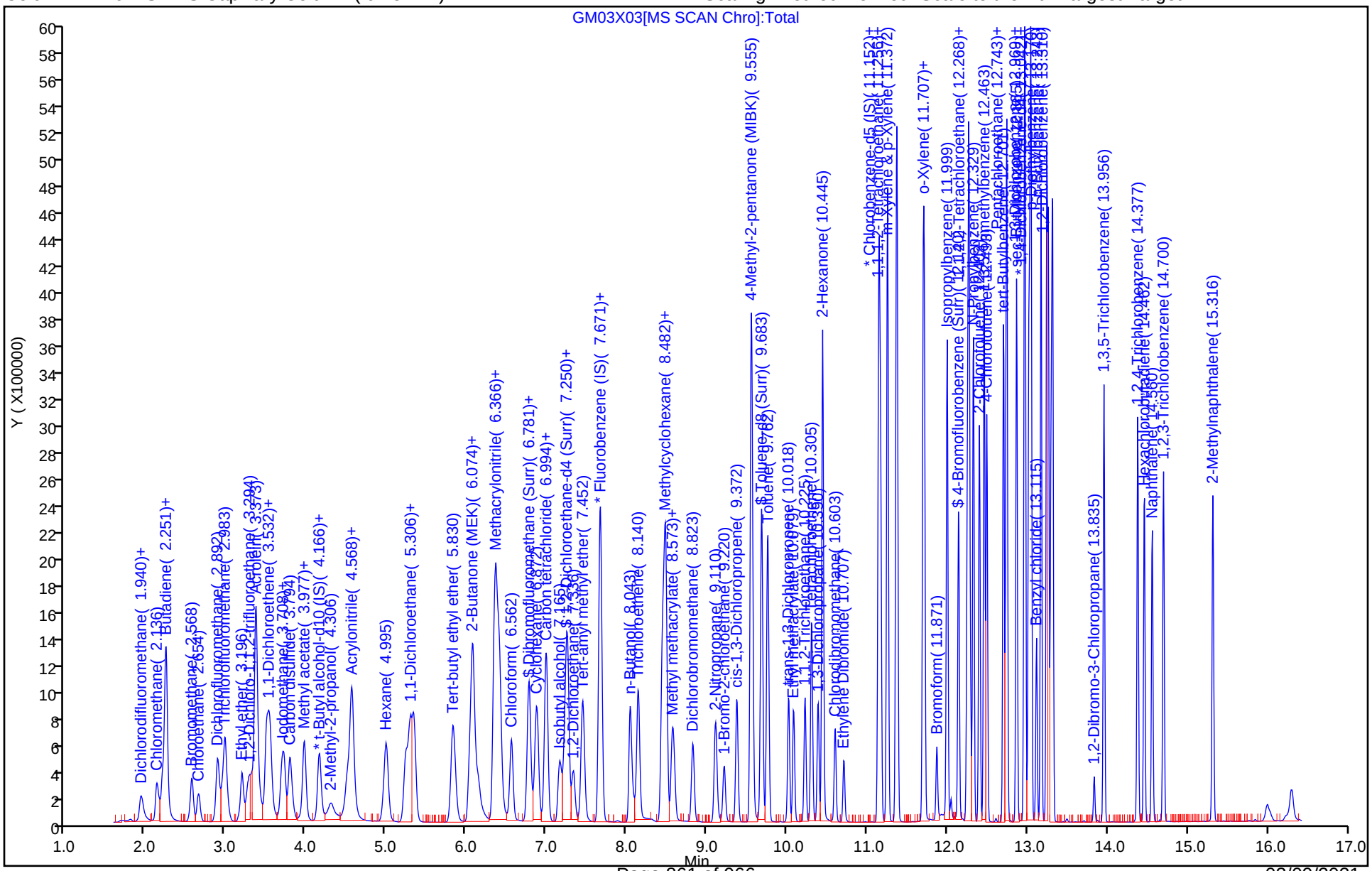
Report Date: 03-Mar-2021 14:02:50 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X03.D

Injection Date:	03-Mar-2021 09:17:30	Instrument ID:	16334	Operator ID:	SRK36897
Lims ID:	CCVIS VSTD10			Worklist Smp#:	3
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: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

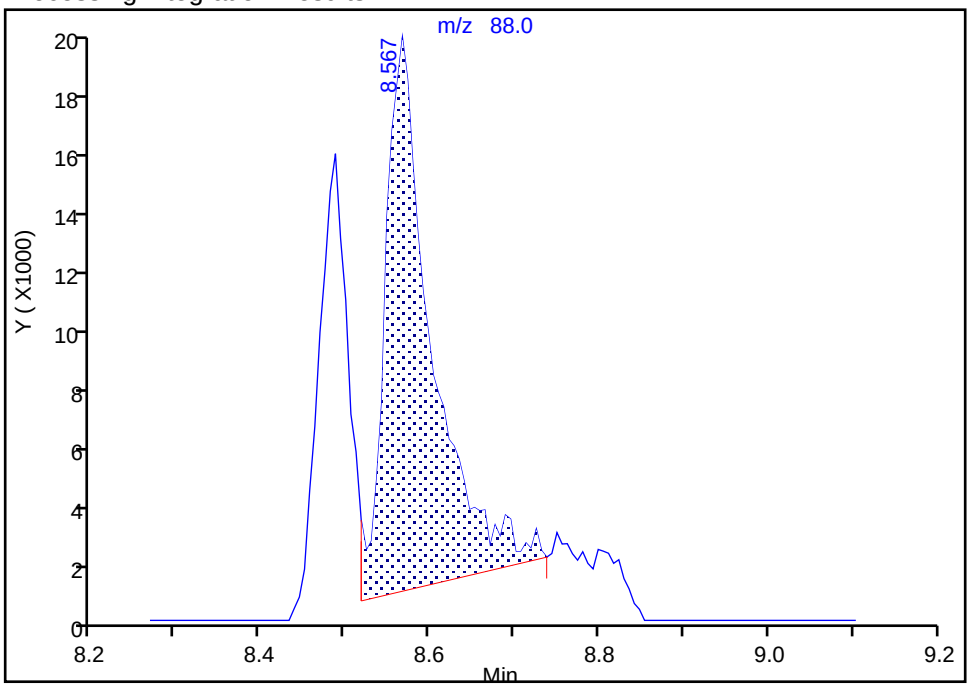
Data File:	\\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X03.D				
Injection Date:	03-Mar-2021 09:17:30	Instrument ID:	16334		
Lims ID:	CCVIS VSTD10				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	3	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

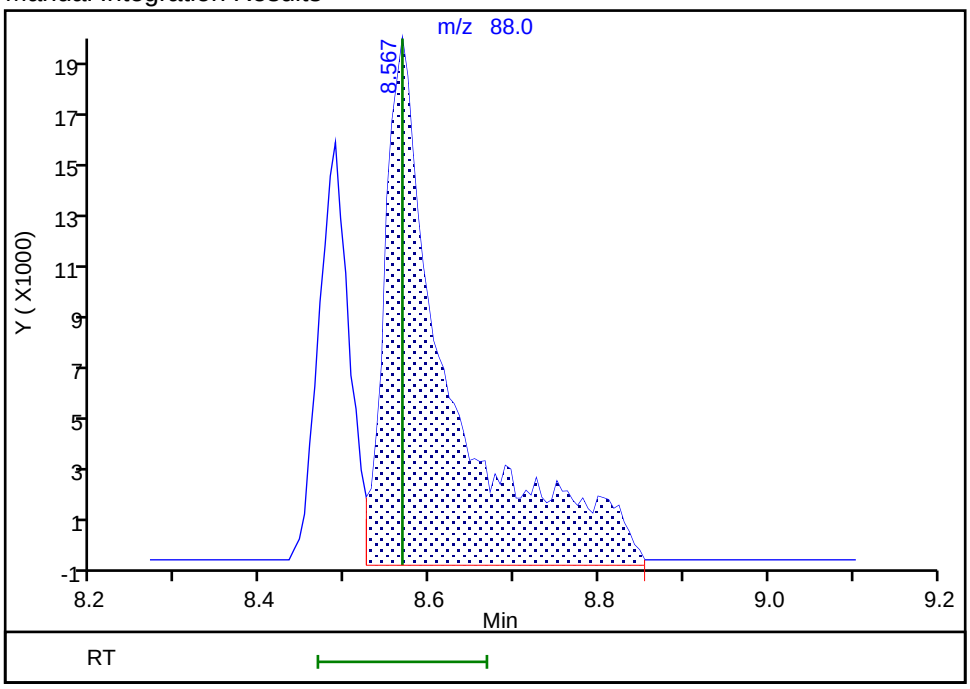
Processing Integration Results

RT: 8.57
Area: 69970
Amount: 363.4759
Amount Units: ug/l



Manual Integration Results

RT: 8.57
Area: 103441
Amount: 537.3490
Amount Units: ug/l



Reviewer: knouses, 03-Mar-2021 09:59:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Lab Sample ID: ICV 410-69397/10 Calibration Date: 11/23/2020 15:14

Instrument ID: 19930 Calib Start Date: 11/23/2020 12:45

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 11/23/2020 14:53

Lab File ID: IN23V01.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	0.3569	0.2943	0.1000	4.12	5.00	-17.5	30.0
Chloromethane	Ave	0.4141	0.3823	0.1000	4.62	5.00	-7.7	30.0
1,3-Butadiene	Ave	0.3536	0.3121		4.41	5.00	-11.8	30.0
Vinyl chloride	Ave	0.3812	0.3783	0.1000	4.96	5.00	-0.8	30.0
Bromomethane	Ave	0.2764	0.2693	0.1000	4.87	5.00	-2.6	30.0
Chloroethane	Ave	0.2343	0.2223	0.1000	4.74	5.00	-5.1	30.0
Dichlorofluoromethane	Ave	0.5249	0.5136		4.89	5.00	-2.2	30.0
Trichlorofluoromethane	Ave	0.4935	0.4599	0.1000	4.66	5.00	-6.8	30.0
Ethyl ether	Ave	0.2210	0.2357		5.33	5.00	6.7	30.0
Freon 123a	Ave	0.3461	0.3375		4.88	5.00	-2.5	30.0
Acrolein	Ave	2.192	2.048		35.0	37.5	-6.6	30.0
1,1-Dichloroethene	Ave	0.2666	0.2658	0.1000	4.98	5.00	-0.3	30.0
Acetone	Ave	2.726	2.486	0.1000	34.2	37.5	-8.8	30.0
Freon 113	Ave	0.2819	0.2556	0.1000	4.53	5.00	-9.3	30.0
Methyl iodide	Ave	0.5211	0.4961		4.76	5.00	-4.8	30.0
Ethyl bromide	Ave	0.2424	0.2277		4.71	5.01	-6.1	30.0
Carbon disulfide	Ave	0.7730	0.7318	0.1000	4.73	5.00	-5.3	30.0
Methyl acetate	Ave	7.436	6.809	0.1000	4.58	5.00	-8.4	30.0
Allyl chloride	Ave	0.4053	0.3854		4.75	5.00	-4.9	30.0
Methylene Chloride	Ave	0.2955	0.2867	0.1000	4.85	5.00	-3.0	30.0
t-Butyl alcohol	Ave	1.066	1.066		50.0	50.0	-0.0	30.0
Acrylonitrile	Ave	3.558	3.539		24.9	25.0	-0.5	30.0
Methyl tert-butyl ether	Ave	0.7137	0.6713	0.1000	4.70	5.00	-5.9	30.0
trans-1,2-Dichloroethene	Ave	0.2944	0.2872	0.1000	4.88	5.00	-2.5	30.0
n-Hexane	Ave	0.4029	0.3867		4.80	5.00	-4.0	30.0
1,1-Dichloroethane	Ave	0.5323	0.5231	0.2000	4.91	5.00	-1.7	30.0
di-Isopropyl ether	Ave	0.8798	0.8496		4.83	5.00	-3.4	30.0
2-Chloro-1,3-butadiene	Ave	0.4273	0.4204		4.92	5.00	-1.6	30.0
Ethyl t-butyl ether	Ave	0.8307	0.8078		4.86	5.00	-2.7	30.0
2-Butanone (MEK)	Ave	4.560	4.401	0.1000	36.2	37.5	-3.5	30.0
cis-1,2-Dichloroethene	Ave	0.3420	0.3466	0.1000	5.07	5.00	1.3	30.0
2,2-Dichloropropane	Ave	0.4280	0.4315		5.04	5.00	0.8	30.0
Propionitrile	Ave	1.334	1.364		38.4	37.5	2.3	30.0
Methacrylonitrile	Ave	4.696	4.600		36.7	37.5	-2.0	30.0
Bromochloromethane	Ave	0.1507	0.1407		4.67	5.00	-6.6	30.0
Tetrahydrofuran	Ave	1.383	1.401		25.3	25.0	1.3	30.0
Chloroform	Ave	0.5245	0.5161	0.2000	4.92	5.00	-1.6	30.0
1,1,1-Trichloroethane	Ave	0.4712	0.4575	0.1000	4.85	5.00	-2.9	30.0
Cyclohexane	Ave	0.4884	0.4708	0.1000	4.82	5.00	-3.6	30.0
1,1-Dichloropropene	Ave	0.4182	0.4127		4.93	5.00	-1.3	30.0
Carbon tetrachloride	Ave	0.4218	0.4101	0.1000	4.86	5.00	-2.8	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Lab Sample ID: ICV 410-69397/10 Calibration Date: 11/23/2020 15:14

Instrument ID: 19930 Calib Start Date: 11/23/2020 12:45

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 11/23/2020 14:53

Lab File ID: IN23V01.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	0.3429	0.3263		119	125	-4.8	30.0
Benzene	Ave	1.267	1.218	0.5000	4.81	5.00	-3.8	30.0
1,2-Dichloroethane	Ave	0.3094	0.2997	0.1000	4.84	5.00	-3.1	30.0
t-Amyl methyl ether	Ave	0.7610	0.7447		4.89	5.00	-2.1	30.0
n-Heptane	Ave	0.4046	0.3828		4.73	5.00	-5.4	30.0
n-Butanol	Ave	0.3241	0.3115		240	250	-3.9	30.0
Trichloroethene	Ave	0.3316	0.3187	0.2000	4.80	5.00	-3.9	30.0
Methylcyclohexane	Ave	0.5387	0.5102	0.1000	4.74	5.00	-5.3	30.0
1,2-Dichloropropane	Ave	0.3114	0.3105	0.1000	4.99	5.00	-0.3	30.0
Methyl methacrylate	Ave	8.743	8.609		4.92	5.00	-1.5	30.0
1,4-Dioxane	Ave	0.0846	0.0778	0.0050	115	125	-8.0	30.0
Dibromomethane	Ave	0.1472	0.1406		4.78	5.00	-4.5	30.0
Bromodichloromethane	Ave	0.3732	0.3644	0.2000	4.88	5.00	-2.4	30.0
2-Nitropropane	Ave	2.198	2.103		4.78	5.00	-4.3	30.0
1-Bromo-2-chloroethane	Ave	0.3205	0.3144		4.91	5.00	-1.9	30.0
cis-1,3-Dichloropropene	Ave	0.4477	0.4341	0.2000	4.85	5.00	-3.0	30.0
4-Methyl-2-pentanone (MIBK)	Ave	11.34	11.28	0.1000	24.9	25.0	-0.5	30.0
Toluene	Ave	1.090	1.041	0.4000	4.77	5.00	-4.5	30.0
trans-1,3-Dichloropropene	Ave	0.4707	0.4601	0.1000	4.89	5.00	-2.3	30.0
Ethyl methacrylate	Ave	0.3939	0.4006		5.09	5.00	1.7	30.0
1,1,2-Trichloroethane	Ave	0.2910	0.2915	0.1000	5.01	5.00	0.2	30.0
Tetrachloroethene	Ave	0.5278	0.5107	0.2000	4.84	5.00	-3.2	30.0
1,3-Dichloropropane	Ave	0.4971	0.4800		4.83	5.00	-3.4	30.0
2-Hexanone	Ave	7.755	7.908	0.1000	25.5	25.0	2.0	30.0
Dibromochloromethane	Ave	0.3656	0.3629		4.96	5.00	-0.7	30.0
1,2-Dibromoethane (EDB)	Ave	0.2787	0.2652	0.1000	4.76	5.00	-4.8	30.0
1-Chlorohexane	Ave	0.6323	0.5824		4.61	5.00	-7.9	30.0
Chlorobenzene	Ave	1.205	1.182	0.5000	4.90	5.00	-1.9	30.0
1,1,1,2-Tetrachloroethane	Ave	0.4185	0.4104		4.90	5.00	-2.0	30.0
Ethylbenzene	Ave	2.106	2.045	0.1000	4.86	5.00	-2.9	30.0
m&p-Xylene	Ave	0.8312	0.8083	0.1000	9.72	10.0	-2.8	30.0
o-Xylene	Ave	0.8079	0.7959	0.3000	4.93	5.00	-1.5	30.0
Styrene	Ave	1.293	1.278	0.3000	4.94	5.00	-1.2	30.0
Bromoform	Ave	0.2210	0.2148	0.1000	4.86	5.00	-2.8	30.0
Isopropylbenzene	Ave	2.146	2.116	0.1000	4.93	5.00	-1.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6530	0.6302	0.3000	4.83	5.00	-3.5	30.0
Bromobenzene	Ave	0.9004	0.8772		4.87	5.00	-2.6	30.0
trans-1,4-Dichloro-2-butene	Ave	3.720	3.643		24.5	25.0	-2.1	30.0
1,2,3-Trichloropropane	Ave	0.1792	0.1752		4.89	5.00	-2.2	30.0
N-Propylbenzene	Ave	4.413	4.339		4.92	5.00	-1.7	30.0
2-Chlorotoluene	Ave	0.9023	0.8811		4.88	5.00	-2.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Lab Sample ID: ICV 410-69397/10 Calibration Date: 11/23/2020 15:14

Instrument ID: 19930 Calib Start Date: 11/23/2020 12:45

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 11/23/2020 14:53

Lab File ID: IN23V01.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	3.156	3.109		4.93	5.00	-1.5	30.0
4-Chlorotoluene	Ave	0.9112	0.8807		4.83	5.00	-3.3	30.0
tert-Butylbenzene	Ave	0.7129	0.6882		4.83	5.00	-3.5	30.0
Pentachloroethane	Ave	0.5650	0.5554		4.92	5.00	-1.7	30.0
1,2,4-Trimethylbenzene	Ave	3.210	3.163		4.93	5.00	-1.4	30.0
sec-Butylbenzene	Ave	4.139	4.082		4.93	5.00	-1.4	30.0
1,3-Dichlorobenzene	Ave	1.813	1.742	0.6000	4.80	5.00	-3.9	30.0
p-Isopropyltoluene	Ave	3.530	3.549		5.03	5.00	0.6	30.0
1,4-Dichlorobenzene	Ave	1.813	1.753	0.5000	4.84	5.00	-3.3	30.0
1,2,3-Trimethylbenzene	Ave	1.424	1.438		5.05	5.00	1.0	30.0
Benzyl chloride	Ave	0.2469	0.2647		5.36	5.00	7.2	30.0
n-Butylbenzene	Ave	1.724	1.687		4.89	5.00	-2.2	30.0
1,2-Dichlorobenzene	Ave	1.654	1.613	0.4000	4.88	5.00	-2.4	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.1003	0.1017	0.0500	5.07	5.00	1.4	30.0
1,3,5-Trichlorobenzene	Ave	1.306	1.267		4.85	5.00	-3.0	30.0
1,2,4-Trichlorobenzene	Ave	1.086	1.066	0.2000	4.91	5.00	-1.9	30.0
Hexachlorobutadiene	Ave	0.4723	0.4467		4.73	5.00	-5.4	30.0
Naphthalene	Ave	2.030	1.940		4.78	5.00	-4.4	30.0
1,2,3-Trichlorobenzene	Ave	0.9372	0.8996		4.80	5.00	-4.0	30.0
Dibromofluoromethane (Surr)	Ave	0.2469	0.2460		9.96	10.0	-0.4	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0498	0.0489		9.82	10.0	-1.8	30.0
Toluene-d8 (Surr)	Ave	1.306	1.301		9.96	10.0	-0.4	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4836	0.4836		10.0	10.0	-0.0	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23V01.D
Lims ID: ICV LG
Client ID:
Sample Type: ICV
Inject. Date: 23-Nov-2020 15:14:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0016280-010
Misc. Info.: ICV LG
Operator ID: dvv10203 Instrument ID: 19930
Sublist:

Method: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 23-Nov-2020 19:12:23 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1632

First Level Reviewer: campbellme Date: 23-Nov-2020 18:58:48

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	290999	5.00	4.12	
4 Chloromethane	50	2.172	2.172	0.000	99	378017	5.00	4.62	
6 Butadiene	39	2.288	2.288	0.000	89	308587	5.00	4.41	
5 Vinyl chloride	62	2.294	2.300	-0.006	98	374046	5.00	4.96	
7 Bromomethane	94	2.617	2.623	-0.006	90	266255	5.00	4.87	
8 Chloroethane	64	2.702	2.709	-0.007	100	219813	5.00	4.74	
9 Dichlorofluoromethane	67	2.940	2.940	0.000	97	507901	5.00	4.89	
10 Trichlorofluoromethane	101	3.013	3.019	-0.006	98	454773	5.00	4.66	
11 Ethyl ether	59	3.263	3.269	-0.006	90	233101	5.00	5.33	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.337	3.336	0.000	95	333750	5.00	4.88	
13 Acrolein	56	3.440	3.440	0.000	99	248745	37.5	35.0	
14 1,1-Dichloroethene	96	3.574	3.580	-0.006	98	262792	5.00	4.98	
15 Acetone	43	3.605	3.605	0.000	100	302015	37.5	34.2	
16 112TCTFE	101	3.617	3.617	0.000	90	252796	5.00	4.53	
17 Iodomethane	142	3.769	3.775	-0.006	98	490572	5.00	4.76	
18 Ethyl bromide	108	3.806	3.806	0.000	98	225652	5.01	4.71	
19 Carbon disulfide	76	3.879	3.885	-0.006	99	723688	5.00	4.73	
21 Methyl acetate	43	4.031	4.038	-0.007	98	110295	5.00	4.58	M
22 3-Chloro-1-propene	41	4.056	4.062	-0.006	93	381111	5.00	4.75	
23 Methylene Chloride	84	4.251	4.251	0.000	90	283503	5.00	4.85	
* 24 t-Butyl alcohol-d10 (IS)	65	4.269	4.263	0.006	0	161987	50.0	50.0	M
25 2-Methyl-2-propanol	59	4.397	4.385	0.012	99	172665	50.0	50.0	
26 Acrylonitrile	53	4.586	4.592	-0.006	99	286671	25.0	24.9	
27 Methyl tert-butyl ether	73	4.653	4.659	-0.006	94	663864	5.00	4.70	
28 trans-1,2-Dichloroethene	96	4.678	4.678	0.000	99	283953	5.00	4.88	
29 Hexane	57	5.098	5.104	-0.006	90	382368	5.00	4.80	
31 1,1-Dichloroethane	63	5.330	5.336	-0.006	96	517268	5.00	4.91	
32 Isopropyl ether	45	5.391	5.391	0.000	95	840092	5.00	4.83	
33 2-Chloro-1,3-butadiene	53	5.440	5.446	-0.006	89	415706	5.00	4.92	
34 Tert-butyl ethyl ether	59	5.921	5.921	0.000	97	798827	5.00	4.86	

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	6.135	-0.006	99	534646	37.5	36.2	
37 cis-1,2-Dichloroethene	96	6.159	6.165	-0.006	81	342704	5.00	5.07	
38 2,2-Dichloropropane	77	6.177	6.177	0.000	88	426724	5.00	5.04	
40 Propionitrile	54	6.220	6.220	0.000	98	165712	37.5	38.4	
42 Methacrylonitrile	67	6.427	6.433	-0.006	89	558808	37.5	36.7	
43 Chlorobromomethane	128	6.494	6.494	0.000	91	139169	5.00	4.67	
44 Tetrahydrofuran	71	6.501	6.507	-0.006	77	113499	25.0	25.3	
45 Chloroform	83	6.647	6.647	0.000	93	510311	5.00	4.92	
$ 46 Dibromofluoromethane (Surr)	113	6.854	6.860	-0.006	94	486520	10.0	9.96	
47 1,1,1-Trichloroethane	97	6.866	6.866	0.000	98	452418	5.00	4.85	
48 Cyclohexane	56	6.970	6.964	0.006	88	465588	5.00	4.82	
50 Carbon tetrachloride	117	7.080	7.080	0.000	95	405577	5.00	4.86	
51 1,1-Dichloropropene	75	7.080	7.080	0.000	98	408111	5.00	4.93	
52 Isobutyl alcohol	41	7.226	7.232	-0.006	95	132145	125.0	119.0	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.317	7.311	0.006	0	96656	10.0	9.82	
54 Benzene	78	7.342	7.342	0.000	96	1204860	5.00	4.81	
56 1,2-Dichloroethane	62	7.409	7.415	-0.006	98	296399	5.00	4.84	
57 Tert-amyl methyl ether	73	7.525	7.531	-0.006	100	736358	5.00	4.89	
* 58 Fluorobenzene (IS)	96	7.744	7.744	0.000	99	1977703	10.0	10.0	
59 n-Heptane	43	7.750	7.756	-0.006	90	378491	5.00	4.73	
60 n-Butanol	56	8.104	8.104	0.000	85	252286	250.0	240.3	M
61 Trichloroethene	95	8.220	8.220	0.000	97	315102	5.00	4.80	
62 Methylcyclohexane	83	8.531	8.531	0.000	94	504512	5.00	4.74	
63 1,2-Dichloropropane	63	8.549	8.555	-0.006	90	307071	5.00	4.99	
64 Methyl methacrylate	69	8.634	8.634	0.000	87	139459	5.00	4.92	
65 1,4-Dioxane	88	8.640	8.640	0.000	30	31516	125.0	115.0	M
66 Dibromomethane	93	8.665	8.665	0.000	94	139012	5.00	4.78	
68 Dichlorobromomethane	83	8.896	8.896	0.000	99	360307	5.00	4.88	
69 2-Nitropropane	41	9.159	9.165	-0.006	98	34061	5.00	4.78	
71 2-Chloroethyl vinyl ether	63		9.250				ND	ND	
72 1-Bromo-2-chloroethane	63	9.287	9.287	0.000	98	310914	5.00	4.91	
73 cis-1,3-Dichloropropene	75	9.439	9.439	0.000	98	429301	5.00	4.85	
74 4-Methyl-2-pentanone (MIBK)	43	9.604	9.604	0.000	95	913922	25.0	24.9	
$ 75 Toluene-d8 (Surr)	98	9.744	9.744	0.000	93	1947874	10.0	9.96	
76 Toluene	92	9.817	9.817	0.000	98	779388	5.00	4.77	
78 trans-1,3-Dichloropropene	75	10.073	10.073	0.000	90	344464	5.00	4.89	
79 Ethyl methacrylate	69	10.134	10.134	0.000	87	299917	5.00	5.09	
80 1,1,2-Trichloroethane	97	10.274	10.280	-0.006	89	218208	5.00	5.01	
81 Tetrachloroethene	166	10.366	10.366	0.000	97	382345	5.00	4.84	
82 1,3-Dichloropropane	76	10.439	10.439	0.000	86	359323	5.00	4.83	
83 2-Hexanone	43	10.488	10.488	0.000	95	640458	25.0	25.5	
85 Chlorodibromomethane	129	10.652	10.652	0.000	90	271651	5.00	4.96	
86 Ethylene Dibromide	107	10.762	10.762	0.000	99	198542	5.00	4.76	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	0.000	85	1497197	10.0	10.0	
88 1-Chlorohexane	91	11.195	11.195	0.000	95	435966	5.00	4.61	
90 Chlorobenzene	112	11.219	11.219	0.000	96	884797	5.00	4.90	
91 1,1,1,2-Tetrachloroethane	131	11.298	11.298	0.000	96	307198	5.00	4.90	
92 Ethylbenzene	91	11.298	11.304	-0.006	98	1530870	5.00	4.86	
93 m-Xylene & p-Xylene	106	11.414	11.414	0.000	100	1210183	10.0	9.72	
94 o-Xylene	106	11.743	11.743	0.000	96	595836	5.00	4.93	
95 Styrene	104	11.762	11.762	0.000	95	956882	5.00	4.94	
96 Bromoform	173	11.920	11.920	0.000	98	160812	5.00	4.86	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
97 Isopropylbenzene	105	12.042	12.042	0.000	95	1583732	5.00	4.93	
$ 100 4-Bromofluorobenzene (Surr)	95	12.188	12.188	0.000	93	723999	10.0	10.0	
101 1,1,2,2-Tetrachloroethane	83	12.286	12.286	0.000	93	268576	5.00	4.83	
102 Bromobenzene	156	12.304	12.304	0.000	94	373871	5.00	4.87	
103 trans-1,4-Dichloro-2-butene	53	12.310	12.310	0.000	91	295070	25.0	24.5	
104 1,2,3-Trichloropropane	110	12.335	12.335	0.000	83	74668	5.00	4.89	
105 N-Propylbenzene	91	12.371	12.371	0.000	99	1849241	5.00	4.92	
106 2-Chlorotoluene	126	12.451	12.451	0.000	97	375532	5.00	4.88	
107 1,3,5-Trimethylbenzene	105	12.505	12.505	0.000	94	1325215	5.00	4.93	
108 4-Chlorotoluene	126	12.542	12.542	0.000	96	375339	5.00	4.83	
109 tert-Butylbenzene	134	12.749	12.749	0.000	92	293304	5.00	4.83	
110 Pentachloroethane	167	12.780	12.780	0.000	93	236718	5.00	4.92	
111 1,2,4-Trimethylbenzene	105	12.792	12.792	0.000	96	1348219	5.00	4.93	
112 sec-Butylbenzene	105	12.908	12.914	-0.006	94	1739936	5.00	4.93	
113 1,3-Dichlorobenzene	146	13.011	13.011	0.000	98	742550	5.00	4.80	
114 4-Isopropyltoluene	119	13.018	13.018	0.000	97	1512773	5.00	5.03	
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	93	852390	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.085	13.085	0.000	96	747293	5.00	4.84	
117 1,2,3-Trimethylbenzene	120	13.091	13.097	-0.006	98	613024	5.00	5.05	
118 Benzyl chloride	126	13.158	13.164	-0.006	98	112793	5.00	5.36	
119 n-Butylbenzene	92	13.310	13.310	0.000	98	718835	5.00	4.89	
120 1,2-Dichlorobenzene	146	13.341	13.347	-0.006	99	687650	5.00	4.88	
122 1,2-Dibromo-3-Chloropropane	155	13.889	13.883	0.006	90	43334	5.00	5.07	
123 1,3,5-Trichlorobenzene	180	14.011	14.011	0.000	98	539931	5.00	4.85	
124 1,2,4-Trichlorobenzene	180	14.432	14.438	-0.006	94	454274	5.00	4.91	
125 Hexachlorobutadiene	225	14.517	14.517	0.000	96	190387	5.00	4.73	
126 Naphthalene	128	14.615	14.615	0.000	97	826853	5.00	4.78	
127 1,2,3-Trichlorobenzene	180	14.755	14.761	-0.006	96	383391	5.00	4.80	
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	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_Q_EE_00003	Amount Added:	12.50	Units: uL	
MSV_Q_QVOA1_00056	Amount Added:	12.50	Units: uL	
MSV_Q_QARC_00055	Amount Added:	12.50	Units: uL	
MSV_Q_QVOA6_00053	Amount Added:	12.50	Units: uL	
MSV_QGAS_826_00092	Amount Added:	12.50	Units: uL	
MSV_Q_ETBR_00005	Amount Added:	12.50	Units: uL	
MSV_31_826ISS_00003	Amount Added:	5.00	Units: uL	Run Reagent

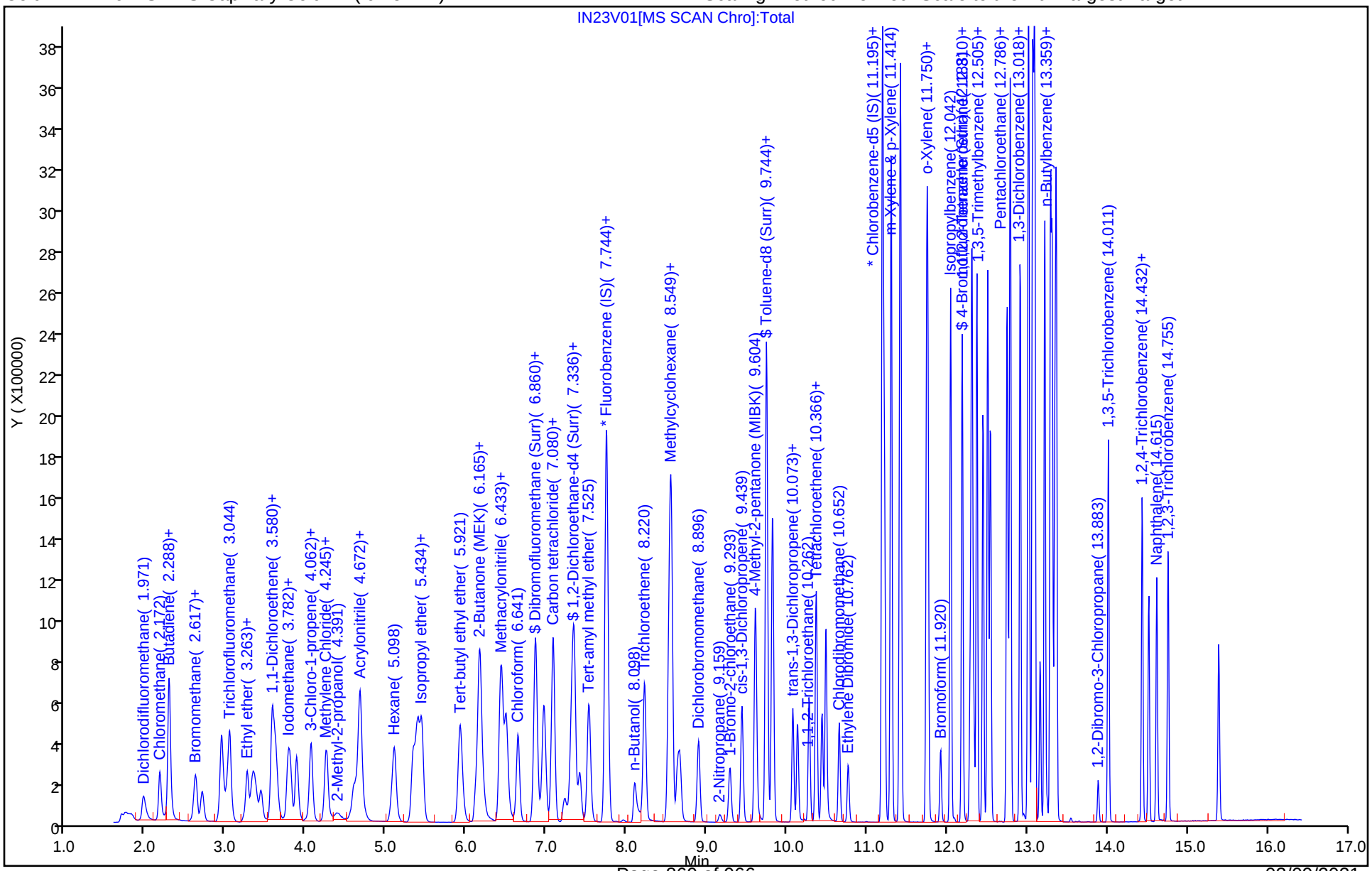
Report Date: 23-Nov-2020 19:12:27 Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23V01.D

Injection Date:	23-Nov-2020 15:14:30	Instrument ID:	19930	Operator ID:	dvv10203
Lims ID:	ICV LG			Worklist Smp#:	10
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

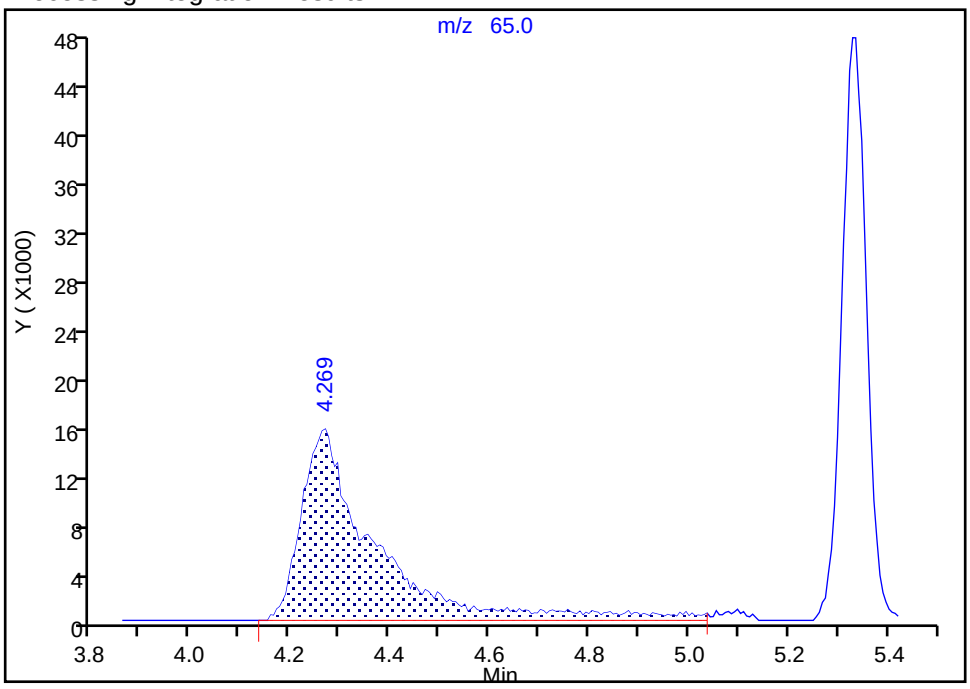
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23V01.D				
Injection Date:	23-Nov-2020 15:14:30	Instrument ID:	19930		
Lims ID:	ICV LG				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit 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

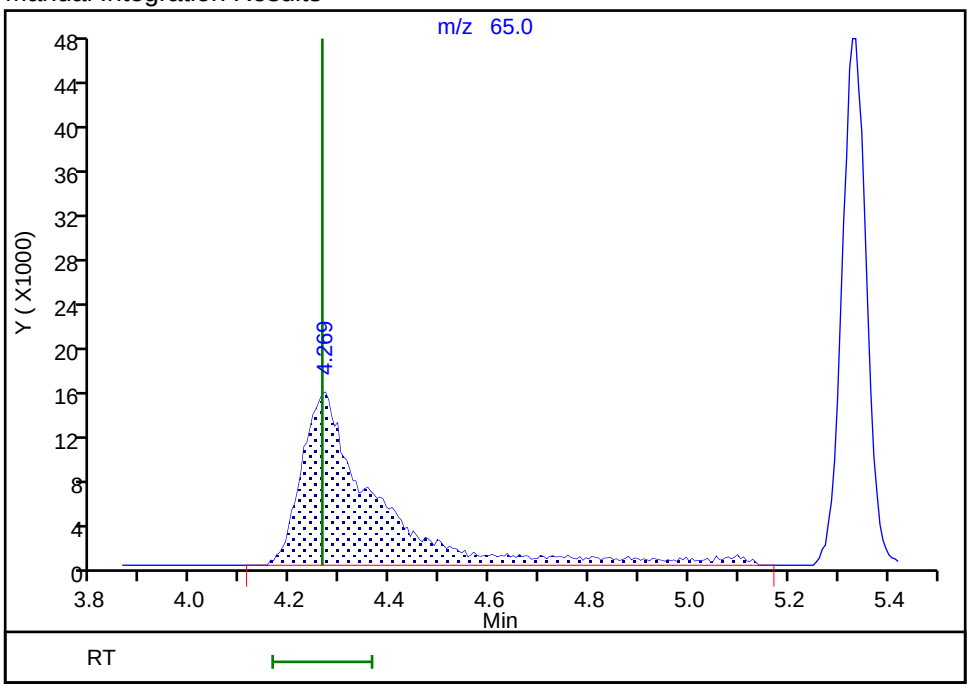
Processing Integration Results

RT: 4.27
Area: 158853
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 4.27
Area: 161987
Amount: 50.000000
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:56:25

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

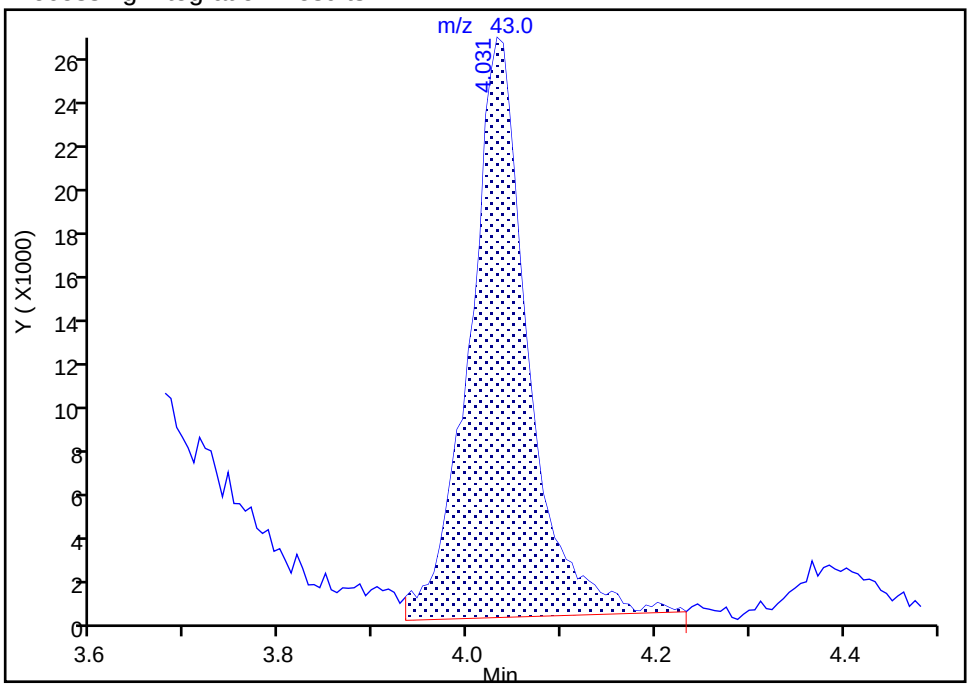
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23V01.D				
Injection Date:	23-Nov-2020 15:14:30	Instrument ID:	19930		
Lims ID:	ICV LG				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

21 Methyl acetate, CAS: 79-20-9

Signal: 1

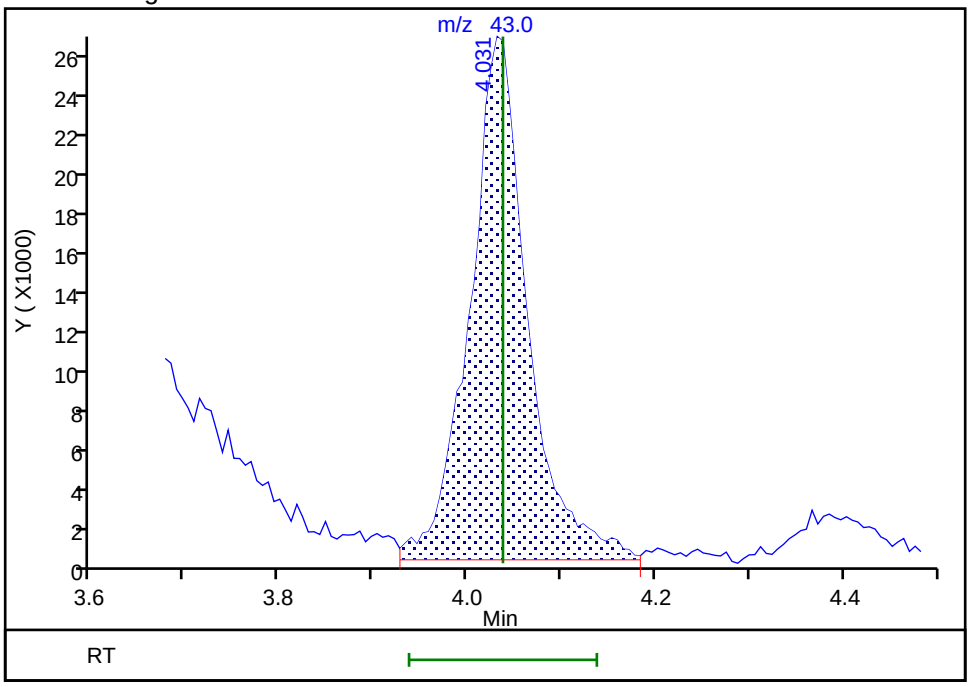
Processing Integration Results

RT: 4.03
Area: 111558
Amount: 4.721812
Amount Units: ug/l



Manual Integration Results

RT: 4.03
Area: 110295
Amount: 4.578035
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:56:15

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

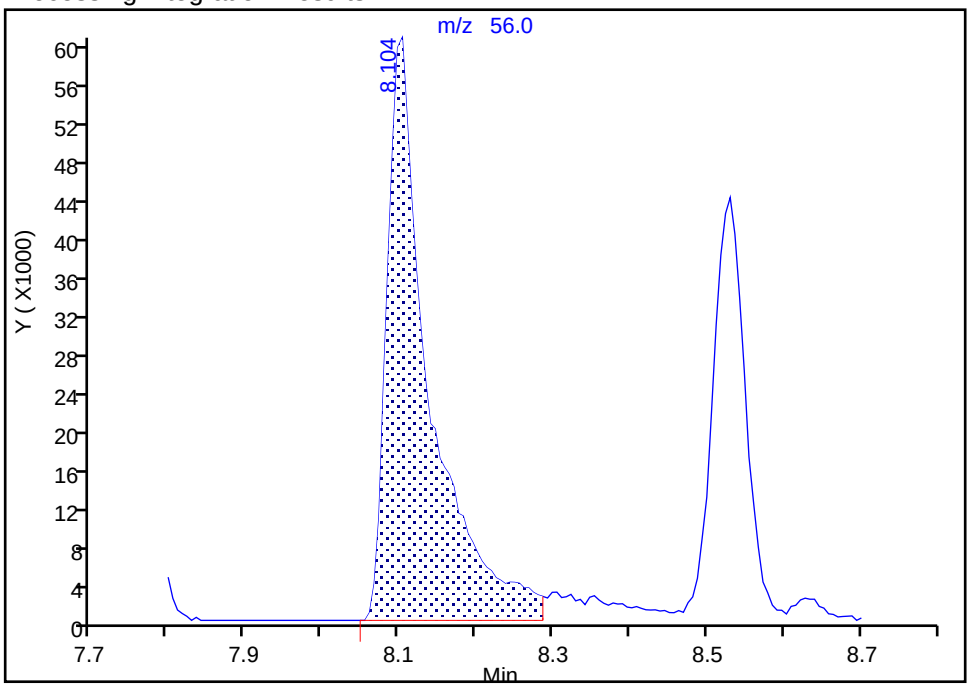
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23V01.D				
Injection Date:	23-Nov-2020 15:14:30	Instrument ID:	19930		
Lims ID:	ICV LG				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

60 n-Butanol, CAS: 71-36-3

Signal: 1

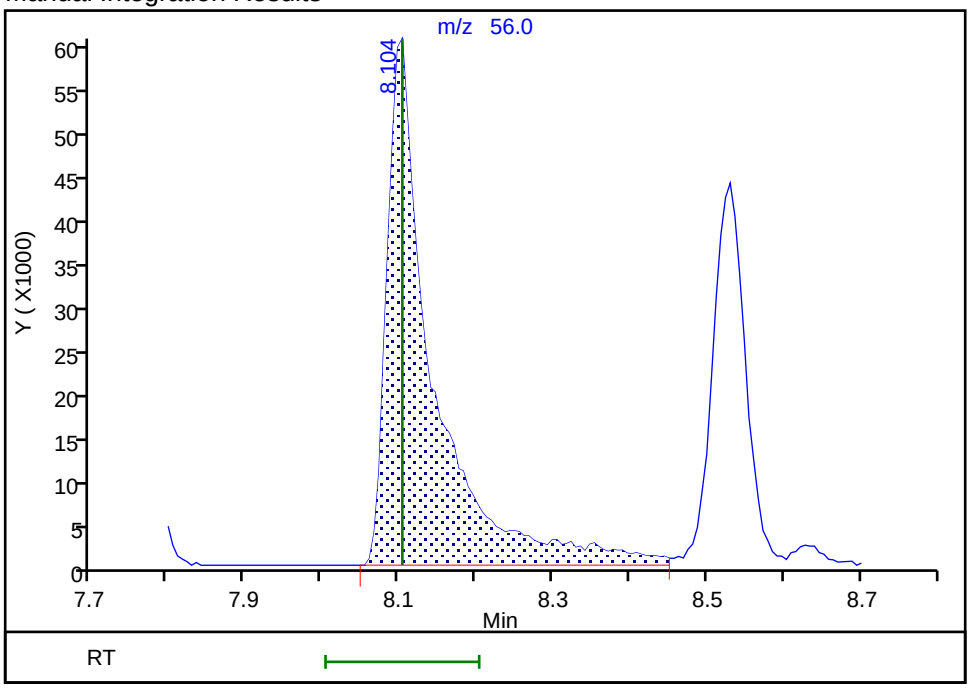
Processing Integration Results

RT: 8.10
Area: 234717
Amount: 223.5540
Amount Units: ug/l



Manual Integration Results

RT: 8.10
Area: 252286
Amount: 240.2874
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:56:56

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

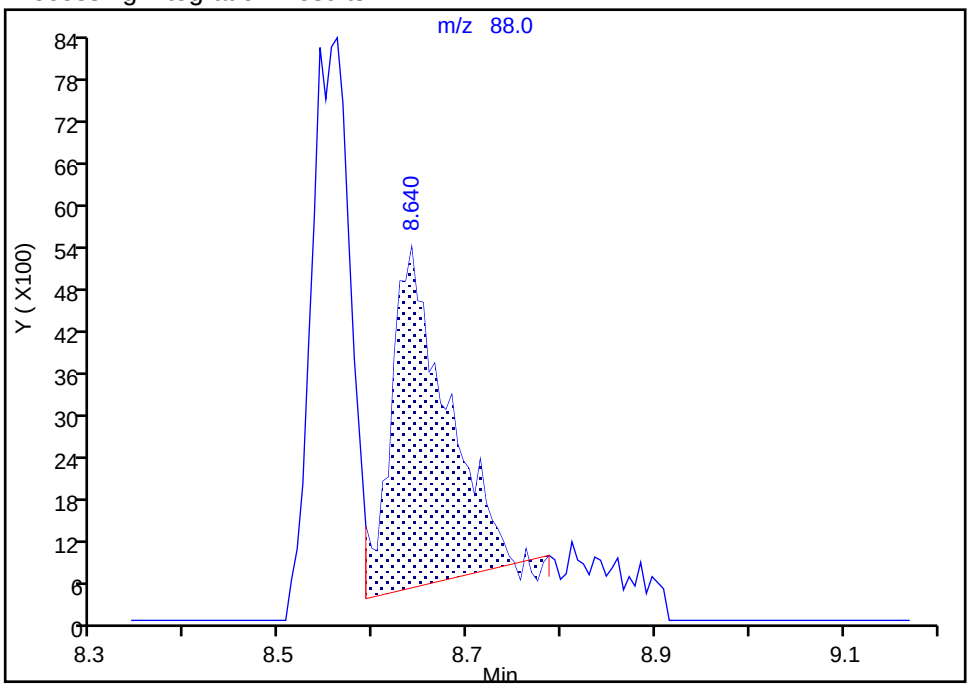
Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23V01.D				
Injection Date:	23-Nov-2020 15:14:30	Instrument ID:	19930		
Lims ID:	ICV LG				
Client ID:					
Operator ID:	dvv10203	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit 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

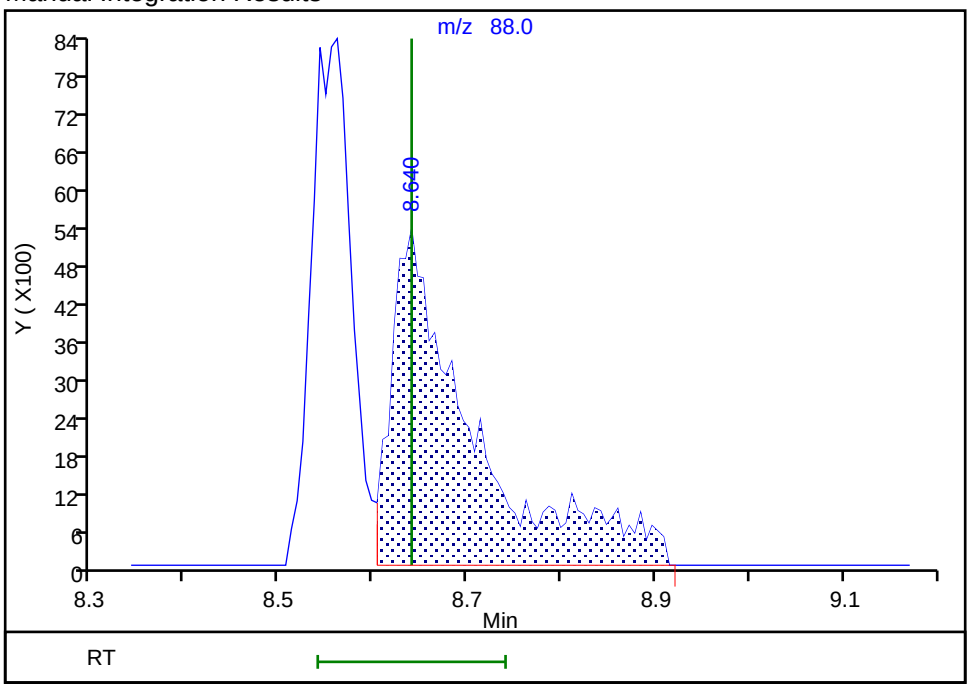
Processing Integration Results

RT: 8.64
Area: 19819
Amount: 72.308770
Amount Units: ug/l



Manual Integration Results

RT: 8.64
Area: 31516
Amount: 114.9848
Amount Units: ug/l



Reviewer: campbellme, 23-Nov-2020 18:57:13

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.: 410-30627-1

SDG No.:

Lab Sample ID: CCVIS 410-99333/3 Calibration Date: 03/03/2021 19:28

Instrument ID: 19930 Calib Start Date: 11/23/2020 12:45

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 11/23/2020 14:53

Lab File ID: IM03C31.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	0.3569	0.3572	0.1000	12.5	12.5	0.0	20.0
Chloromethane	Ave	0.4141	0.4139	0.1000	12.5	12.5	-0.0	20.0
1,3-Butadiene	Ave	0.3536	0.4297		15.2	12.5	21.5*	20.0
Vinyl chloride	Ave	0.3812	0.3660	0.1000	12.0	12.5	-4.0	20.0
Bromomethane	Ave	0.2764	0.2701	0.1000	12.2	12.5	-2.3	20.0
Chloroethane	Ave	0.2343	0.2311	0.1000	12.3	12.5	-1.4	20.0
Dichlorofluoromethane	Ave	0.5249	0.4246		10.1	12.5	-19.1	20.0
Trichlorofluoromethane	Ave	0.4935	0.4895	0.1000	12.4	12.5	-0.8	20.0
Ethyl ether	Ave	0.2210	0.2121		12.0	12.5	-4.0	20.0
Freon 123a	Ave	0.3461	0.3135		11.3	12.5	-9.4	20.0
Acrolein	Ave	2.192	1.532		437	625	-30.1*	20.0
1,1-Dichloroethene	Ave	0.2666	0.2368	0.1000	11.1	12.5	-11.2	20.0
Acetone	Ave	2.726	2.518	0.1000	115	125	-7.6	20.0
Freon 113	Ave	0.2819	0.2694	0.1000	11.9	12.5	-4.4	20.0
Methyl iodide	Ave	0.5211	0.4650		11.2	12.5	-10.8	20.0
Ethyl bromide	Ave	0.2424	0.2154		11.1	12.5	-11.1	20.0
Carbon disulfide	Ave	0.7730	0.6641	0.1000	10.7	12.5	-14.1	20.0
Methyl acetate	Ave	7.436	8.033	0.1000	13.5	12.5	8.0	20.0
Allyl chloride	Ave	0.4053	0.3953		12.2	12.5	-2.5	20.0
Methylene Chloride	Ave	0.2955	0.2616	0.1000	11.1	12.5	-11.5	20.0
t-Butyl alcohol	Ave	1.066	0.9877		232	250	-7.3	20.0
Acrylonitrile	Ave	3.558	3.924		68.9	62.5	10.3	20.0
Methyl tert-butyl ether	Ave	0.7137	0.6567	0.1000	11.5	12.5	-8.0	20.0
trans-1,2-Dichloroethene	Ave	0.2944	0.2649	0.1000	11.2	12.5	-10.0	20.0
n-Hexane	Ave	0.4029	0.3945		12.2	12.5	-2.1	20.0
1,1-Dichloroethane	Ave	0.5323	0.4956	0.2000	11.6	12.5	-6.9	20.0
di-Isopropyl ether	Ave	0.8798	0.8334		11.8	12.5	-5.3	20.0
2-Chloro-1,3-butadiene	Ave	0.4273	0.4022		11.8	12.5	-5.9	20.0
Ethyl t-butyl ether	Ave	0.8307	0.7776		11.7	12.5	-6.4	20.0
2-Butanone (MEK)	Ave	4.560	5.209	0.1000	143	125	14.2	20.0
cis-1,2-Dichloroethene	Ave	0.3420	0.3138	0.1000	11.5	12.5	-8.3	20.0
2,2-Dichloropropane	Ave	0.4280	0.4235		12.4	12.5	-1.1	20.0
Propionitrile	Ave	1.334	1.445		271	250	8.3	20.0
Methacrylonitrile	Ave	4.696	5.056		135	125	7.7	20.0
Bromochloromethane	Ave	0.1507	0.1439		11.9	12.5	-4.5	20.0
Tetrahydrofuran	Ave	1.383	1.494		135	125	8.0	20.0
Chloroform	Ave	0.5245	0.4898	0.2000	11.7	12.5	-6.6	20.0
1,1,1-Trichloroethane	Ave	0.4712	0.4437	0.1000	11.8	12.5	-5.9	20.0
Cyclohexane	Ave	0.4884	0.4760	0.1000	12.2	12.5	-2.6	20.0
1,1-Dichloropropene	Ave	0.4182	0.3937		11.8	12.5	-5.9	20.0
Carbon tetrachloride	Ave	0.4218	0.4014	0.1000	11.9	12.5	-4.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Lab Sample ID: CCVIS 410-99333/3 Calibration Date: 03/03/2021 19:28

Instrument ID: 19930 Calib Start Date: 11/23/2020 12:45

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 11/23/2020 14:53

Lab File ID: IM03C31.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	0.3429	0.3414		622	625	-0.4	20.0
Benzene	Ave	1.267	1.174	0.5000	11.6	12.5	-7.3	20.0
1,2-Dichloroethane	Ave	0.3094	0.2987	0.1000	12.1	12.5	-3.4	20.0
t-Amyl methyl ether	Ave	0.7610	0.7192		11.8	12.5	-5.5	20.0
n-Heptane	Ave	0.4046	0.4139		12.8	12.5	2.3	20.0
n-Butanol	Ave	0.3241	0.3180		1230	1250	-1.9	20.0
Trichloroethene	Ave	0.3316	0.3081	0.2000	11.6	12.5	-7.1	20.0
Methylcyclohexane	Ave	0.5387	0.5494	0.1000	12.7	12.5	2.0	20.0
1,2-Dichloropropane	Ave	0.3114	0.2995	0.1000	12.0	12.5	-3.8	20.0
1,4-Dioxane	Ave	0.0846	0.0591	0.0050	436	625	-30.2*	20.0
Methyl methacrylate	Ave	8.743	9.777		14.0	12.5	11.8	20.0
Dibromomethane	Ave	0.1472	0.1394		11.8	12.5	-5.3	20.0
Bromodichloromethane	Ave	0.3732	0.3651	0.2000	12.2	12.5	-2.2	20.0
2-Nitropropane	Ave	2.198	2.743		156	125	24.8*	20.0
1-Bromo-2-chloroethane	Ave	0.3205	0.2929		11.4	12.5	-8.6	20.0
cis-1,3-Dichloropropene	Ave	0.4477	0.4488	0.2000	12.5	12.5	0.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	11.34	13.53	0.1000	149	125	19.3	20.0
Toluene	Ave	1.090	0.9672	0.4000	11.1	12.5	-11.3	20.0
trans-1,3-Dichloropropene	Ave	0.4707	0.4657	0.1000	12.4	12.5	-1.1	20.0
Ethyl methacrylate	Ave	0.3939	0.3840		12.2	12.5	-2.5	20.0
1,1,2-Trichloroethane	Ave	0.2910	0.2680	0.1000	11.5	12.5	-7.9	20.0
Tetrachloroethene	Ave	0.5278	0.4738	0.2000	11.2	12.5	-10.2	20.0
1,3-Dichloropropane	Ave	0.4971	0.4643		11.7	12.5	-6.6	20.0
2-Hexanone	Ave	7.755	9.549	0.1000	154	125	23.1*	20.0
Dibromochloromethane	Ave	0.3656	0.3500		12.0	12.5	-4.3	20.0
1,2-Dibromoethane (EDB)	Ave	0.2787	0.2590	0.1000	11.6	12.5	-7.1	20.0
1-Chlorohexane	Ave	0.6323	0.5701		11.3	12.5	-9.8	20.0
Chlorobenzene	Ave	1.205	1.103	0.5000	11.4	12.5	-8.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4185	0.4047		12.1	12.5	-3.3	20.0
Ethylbenzene	Ave	2.106	1.920	0.1000	11.4	12.5	-8.8	20.0
m&p-Xylene	Ave	0.8312	0.7568	0.1000	22.8	25.0	-9.0	20.0
o-Xylene	Ave	0.8079	0.7486	0.3000	11.6	12.5	-7.3	20.0
Styrene	Ave	1.293	1.230	0.3000	11.9	12.5	-4.9	20.0
Bromoform	Ave	0.2210	0.2174	0.1000	12.3	12.5	-1.6	20.0
Isopropylbenzene	Ave	2.146	1.995	0.1000	11.6	12.5	-7.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6530	0.5927	0.3000	11.3	12.5	-9.2	20.0
Bromobenzene	Ave	0.9004	0.8346		11.6	12.5	-7.3	20.0
trans-1,4-Dichloro-2-butene	Ave	3.720	3.699		124	125	-0.6	20.0
1,2,3-Trichloropropane	Ave	0.1792	0.1638		11.4	12.5	-8.6	20.0
N-Propylbenzene	Ave	4.413	4.031		11.4	12.5	-8.7	20.0
2-Chlorotoluene	Ave	0.9023	0.8359		11.6	12.5	-7.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Lab Sample ID: CCVIS 410-99333/3 Calibration Date: 03/03/2021 19:28

Instrument ID: 19930 Calib Start Date: 11/23/2020 12:45

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 11/23/2020 14:53

Lab File ID: IM03C31.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	3.156	2.926		11.6	12.5	-7.3	20.0
4-Chlorotoluene	Ave	0.9112	0.8518		11.7	12.5	-6.5	20.0
tert-Butylbenzene	Ave	0.7129	0.6621		11.6	12.5	-7.1	20.0
Pentachloroethane	Ave	0.5650	0.5804		12.8	12.5	2.7	20.0
1,2,4-Trimethylbenzene	Ave	3.210	3.002		11.7	12.5	-6.5	20.0
sec-Butylbenzene	Ave	4.139	3.847		11.6	12.5	-7.1	20.0
1,3-Dichlorobenzene	Ave	1.813	1.672	0.6000	11.5	12.5	-7.8	20.0
p-Isopropyltoluene	Ave	3.530	3.313		11.7	12.5	-6.1	20.0
1,4-Dichlorobenzene	Ave	1.813	1.646	0.5000	11.4	12.5	-9.2	20.0
1,2,3-Trimethylbenzene	Ave	1.424	1.360		11.9	12.5	-4.5	20.0
Benzyl chloride	Ave	0.2469	0.2608		13.2	12.5	5.6	20.0
n-Butylbenzene	Ave	1.724	1.631		11.8	12.5	-5.4	20.0
1,2-Dichlorobenzene	Ave	1.654	1.512	0.4000	11.4	12.5	-8.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1003	0.0947	0.0500	11.8	12.5	-5.6	20.0
1,3,5-Trichlorobenzene	Ave	1.306	1.201		11.5	12.5	-8.0	20.0
1,2,4-Trichlorobenzene	Ave	1.086	0.9631	0.2000	11.1	12.5	-11.3	20.0
Hexachlorobutadiene	Ave	0.4723	0.4172		11.0	12.5	-11.7	20.0
Naphthalene	Ave	2.030	1.627		10.0	12.5	-19.8	20.0
1,2,3-Trichlorobenzene	Ave	0.9372	0.7464		9.95	12.5	-20.4*	20.0
Dibromofluoromethane (Surr)	Ave	0.2469	0.2501		10.1	10.0	1.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0498	0.0507		10.2	10.0	1.8	20.0
Toluene-d8 (Surr)	Ave	1.306	1.286		9.84	10.0	-1.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4836	0.4835		10.0	10.0	-0.0	20.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03C31.D
Lims ID: CCVIS VSTD12.5
Client ID:
Sample Type: CCVIS
Inject. Date: 03-Mar-2021 19:28:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-003
Misc. Info.: CCVIS VSTD12.5
Operator ID: MEC29284 Instrument ID: 19930
Sublist: chrom-8260 25ml HP31*sub2

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 11:42:12 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1625

First Level Reviewer: longj Date: 04-Mar-2021 11:42:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.983	1.983	0.000	99	1073887	12.5	12.5	M
4 Chloromethane	50	2.184	2.184	0.000	99	1244524	12.5	12.5	
6 Butadiene	39	2.294	2.294	0.000	92	1291984	12.5	15.2	
5 Vinyl chloride	62	2.306	2.306	0.000	98	1100568	12.5	12.0	
7 Bromomethane	94	2.629	2.629	0.000	90	812249	12.5	12.2	
8 Chloroethane	64	2.709	2.709	0.000	100	694744	12.5	12.3	
9 Dichlorofluoromethane	67	2.952	2.952	0.000	97	1276555	12.5	10.1	
10 Trichlorofluoromethane	101	3.019	3.019	0.000	98	1471683	12.5	12.4	
11 Ethyl ether	59	3.263	3.263	0.000	91	637841	12.5	12.0	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.343	3.343	0.000	91	942730	12.5	11.3	
13 Acrolein	56	3.434	3.434	0.000	100	3397724	625.0	436.8	
14 1,1-Dichloroethene	96	3.574	3.574	0.000	98	711923	12.5	11.1	
15 Acetone	43	3.605	3.605	0.000	100	1116889	125.0	115.5	
16 112TCTFE	101	3.623	3.623	0.000	90	810085	12.5	11.9	
17 Iodomethane	142	3.775	3.775	0.000	98	1398249	12.5	11.2	
18 Ethyl bromide	108	3.806	3.806	0.000	98	648043	12.5	11.1	
19 Carbon disulfide	76	3.885	3.885	0.000	99	1996851	12.5	10.7	
21 Methyl acetate	43	4.025	4.025	0.000	98	356317	12.5	13.5	
22 3-Chloro-1-propene	41	4.062	4.062	0.000	94	1188716	12.5	12.2	
23 Methylene Chloride	84	4.251	4.251	0.000	92	786567	12.5	11.1	
* 24 t-Butyl alcohol-d10 (IS)	65	4.275	4.275	0.000	0	177432	50.0	50.0	
25 2-Methyl-2-propanol	59	4.397	4.397	0.000	99	876246	250.0	231.6	
26 Acrylonitrile	53	4.586	4.586	0.000	99	870210	62.5	68.9	
27 Methyl tert-butyl ether	73	4.659	4.659	0.000	95	1974502	12.5	11.5	
28 trans-1,2-Dichloroethene	96	4.672	4.672	0.000	100	796418	12.5	11.2	
29 Hexane	57	5.098	5.098	0.000	91	1186202	12.5	12.2	
31 1,1-Dichloroethane	63	5.330	5.330	0.000	96	1490085	12.5	11.6	
32 Isopropyl ether	45	5.385	5.385	0.000	95	2505881	12.5	11.8	
33 2-Chloro-1,3-butadiene	53	5.440	5.440	0.000	90	1209282	12.5	11.8	
34 Tert-butyl ethyl ether	59	5.921	5.921	0.000	97	2338002	12.5	11.7	

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	2310575	125.0	142.8	
37 cis-1,2-Dichloroethene	96	6.159	6.159	0.000	80	943476	12.5	11.5	
38 2,2-Dichloropropane	77	6.177	6.177	0.000	86	1273231	12.5	12.4	
40 Propionitrile	54	6.214	6.214	0.000	99	1281735	250.0	270.8	
42 Methacrylonitrile	67	6.433	6.433	0.000	91	2242552	125.0	134.6	
43 Chlorobromomethane	128	6.488	6.488	0.000	82	432571	12.5	11.9	
44 Tetrahydrofuran	71	6.494	6.494	0.000	89	662783	125.0	135.1	
45 Chloroform	83	6.641	6.641	0.000	93	1472707	12.5	11.7	
$ 46 Dibromofluoromethane (Surr)	113	6.854	6.854	0.000	94	601521	10.0	10.1	
47 1,1,1-Trichloroethane	97	6.866	6.866	0.000	98	1333965	12.5	11.8	
48 Cyclohexane	56	6.964	6.964	0.000	90	1431102	12.5	12.2	
51 1,1-Dichloropropene	75	7.074	7.074	0.000	96	1183782	12.5	11.8	
50 Carbon tetrachloride	117	7.080	7.080	0.000	84	1206805	12.5	11.9	
52 Isobutyl alcohol	41	7.226	7.226	0.000	95	757117	625.0	622.2	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.305	7.305	0.000	0	121905	10.0	10.2	
54 Benzene	78	7.336	7.336	0.000	96	3531169	12.5	11.6	
56 1,2-Dichloroethane	62	7.409	7.409	0.000	97	898145	12.5	12.1	
57 Tert-amyl methyl ether	73	7.525	7.525	0.000	99	2162480	12.5	11.8	
* 58 Fluorobenzene (IS)	96	7.738	7.738	0.000	99	2405431	10.0	10.0	
59 n-Heptane	43	7.750	7.750	0.000	91	1244364	12.5	12.8	
60 n-Butanol	56	8.092	8.092	0.000	87	1410756	1250.0	1226.7	
61 Trichloroethene	95	8.214	8.214	0.000	97	926249	12.5	11.6	
62 Methylcyclohexane	83	8.524	8.524	0.000	94	1652059	12.5	12.7	
63 1,2-Dichloropropane	63	8.549	8.549	0.000	82	900521	12.5	12.0	
64 Methyl methacrylate	69	8.628	8.628	0.000	90	433701	12.5	14.0	
65 1,4-Dioxane	88	8.628	8.628	0.000	34	131014	625.0	436.4	M
66 Dibromomethane	93	8.659	8.659	0.000	93	419146	12.5	11.8	
68 Dichlorobromomethane	83	8.890	8.890	0.000	100	1097905	12.5	12.2	
69 2-Nitropropane	41	9.158	9.158	0.000	96	1216650	125.0	156.0	
72 1-Bromo-2-chloroethane	63	9.280	9.280	0.000	98	880820	12.5	11.4	
73 cis-1,3-Dichloropropene	75	9.433	9.433	0.000	97	1349355	12.5	12.5	
74 4-Methyl-2-pentanone (MIBK)	43	9.597	9.597	0.000	96	6002541	125.0	149.1	
$ 75 Toluene-d8 (Surr)	98	9.738	9.738	0.000	93	2438667	10.0	9.84	
76 Toluene	92	9.817	9.817	0.000	98	2293315	12.5	11.1	
78 trans-1,3-Dichloropropene	75	10.067	10.067	0.000	91	1104322	12.5	12.4	
79 Ethyl methacrylate	69	10.128	10.128	0.000	88	910595	12.5	12.2	
80 1,1,2-Trichloroethane	97	10.274	10.274	0.000	90	635405	12.5	11.5	
81 Tetrachloroethene	166	10.366	10.366	0.000	97	1123547	12.5	11.2	
82 1,3-Dichloropropane	76	10.433	10.433	0.000	88	1100869	12.5	11.7	
83 2-Hexanone	43	10.481	10.481	0.000	96	4235571	125.0	153.9	
85 Chlorodibromomethane	129	10.652	10.652	0.000	89	829876	12.5	12.0	
86 Ethylene Dibromide	107	10.762	10.762	0.000	100	614092	12.5	11.6	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	0.000	85	1896963	10.0	10.0	
88 1-Chlorohexane	91	11.195	11.195	0.000	96	1351828	12.5	11.3	
90 Chlorobenzene	112	11.213	11.213	0.000	96	2615508	12.5	11.4	
91 1,1,1,2-Tetrachloroethane	131	11.298	11.298	0.000	95	959631	12.5	12.1	
92 Ethylbenzene	91	11.298	11.298	0.000	98	4552868	12.5	11.4	
93 m-Xylene & p-Xylene	106	11.414	11.414	0.000	100	3589025	25.0	22.8	
94 o-Xylene	106	11.743	11.743	0.000	96	1775121	12.5	11.6	
95 Styrene	104	11.756	11.756	0.000	95	2916306	12.5	11.9	
96 Bromoform	173	11.914	11.914	0.000	98	515611	12.5	12.3	
97 Isopropylbenzene	105	12.042	12.042	0.000	95	4729522	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
$ 100 4-Bromofluorobenzene (Surr)	95	12.182	12.182	0.000	93	917155	10.0	10.0	
101 1,1,2,2-Tetrachloroethane	83	12.286	12.286	0.000	93	812277	12.5	11.3	
102 Bromobenzene	156	12.304	12.304	0.000	97	1143700	12.5	11.6	
103 trans-1,4-Dichloro-2-butene	53	12.310	12.310	0.000	91	1640662	125.0	124.3	
104 1,2,3-Trichloropropane	110	12.329	12.329	0.000	81	224474	12.5	11.4	
105 N-Propylbenzene	91	12.371	12.371	0.000	99	5523458	12.5	11.4	
106 2-Chlorotoluene	126	12.444	12.444	0.000	97	1145474	12.5	11.6	
107 1,3,5-Trimethylbenzene	105	12.505	12.505	0.000	94	4009776	12.5	11.6	
108 4-Chlorotoluene	126	12.536	12.536	0.000	97	1167342	12.5	11.7	
109 tert-Butylbenzene	134	12.743	12.743	0.000	93	907329	12.5	11.6	
110 Pentachloroethane	167	12.780	12.780	0.000	95	795455	12.5	12.8	
111 1,2,4-Trimethylbenzene	105	12.786	12.786	0.000	96	4114255	12.5	11.7	
112 sec-Butylbenzene	105	12.908	12.908	0.000	94	5271384	12.5	11.6	
113 1,3-Dichlorobenzene	146	13.011	13.011	0.000	98	2291329	12.5	11.5	
114 4-Isopropyltoluene	119	13.017	13.017	0.000	97	4539660	12.5	11.7	
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	93	1096331	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.085	13.085	0.000	95	2255813	12.5	11.4	
117 1,2,3-Trimethylbenzene	120	13.091	13.091	0.000	98	1864198	12.5	11.9	
118 Benzyl chloride	126	13.158	13.158	0.000	98	357389	12.5	13.2	
119 n-Butylbenzene	92	13.310	13.310	0.000	97	2235151	12.5	11.8	
120 1,2-Dichlorobenzene	146	13.341	13.341	0.000	99	2071487	12.5	11.4	
122 1,2-Dibromo-3-Chloropropane	155	13.883	13.883	0.000	90	129748	12.5	11.8	
123 1,3,5-Trichlorobenzene	180	14.011	14.011	0.000	98	1646008	12.5	11.5	
124 1,2,4-Trichlorobenzene	180	14.432	14.432	0.000	94	1319794	12.5	11.1	
125 Hexachlorobutadiene	225	14.517	14.517	0.000	96	571682	12.5	11.0	
126 Naphthalene	128	14.615	14.615	0.000	97	2230209	12.5	10.0	
127 1,2,3-Trichlorobenzene	180	14.755	14.755	0.000	96	1022858	12.5	9.95	
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_RV1_826_00040	Amount Added: 25.00	Units: uL	
MSV_RV4_826_00045	Amount Added: 25.00	Units: uL	
MSV_RV4GAS826_00115	Amount Added: 25.00	Units: uL	
MSV_31_826ISS_00004	Amount Added: 5.00	Units: uL	Run Reagent

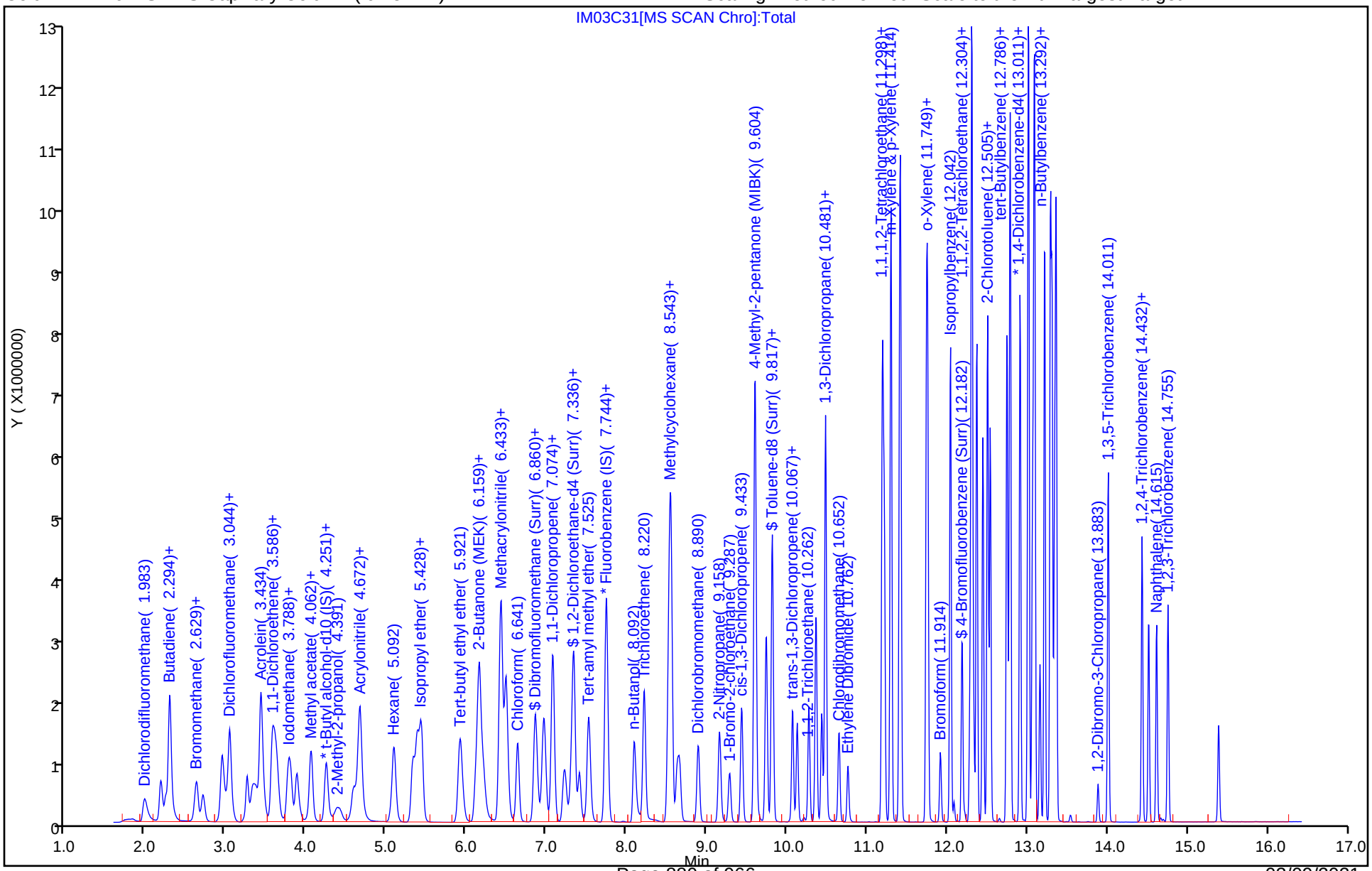
Report Date: 04-Mar-2021 11:42:13 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03C31.D

Injection Date:	03-Mar-2021 19:28:30	Instrument ID:	19930	Operator ID:	MEC29284
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: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

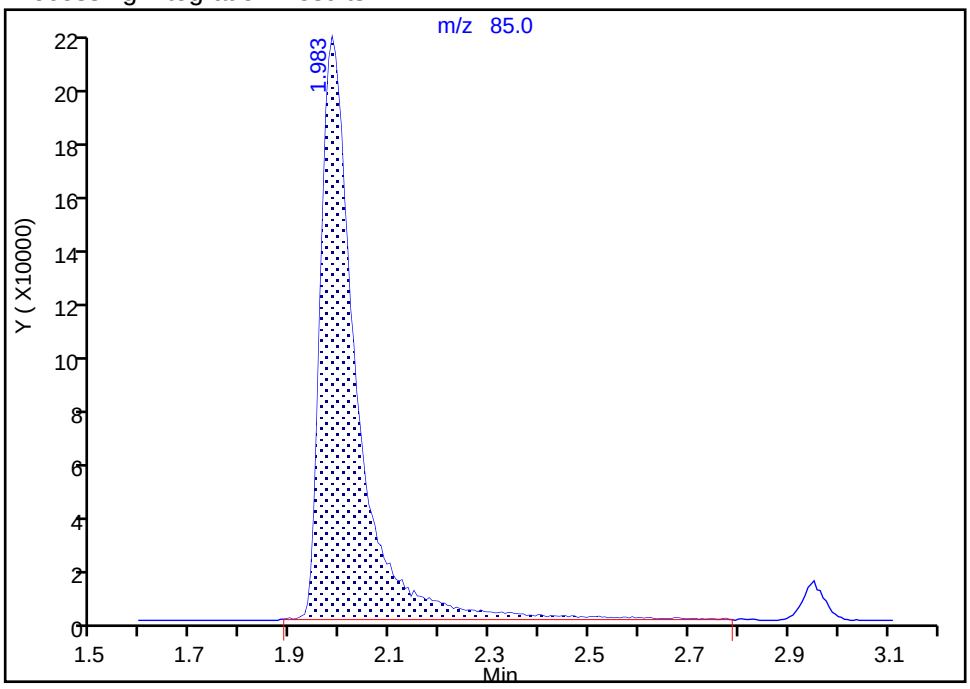
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03C31.D				
Injection Date:	03-Mar-2021 19:28:30	Instrument ID:	19930		
Lims ID:	CCVIS VSTD12.5				
Client ID:					
Operator ID:	MEC29284	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

1 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

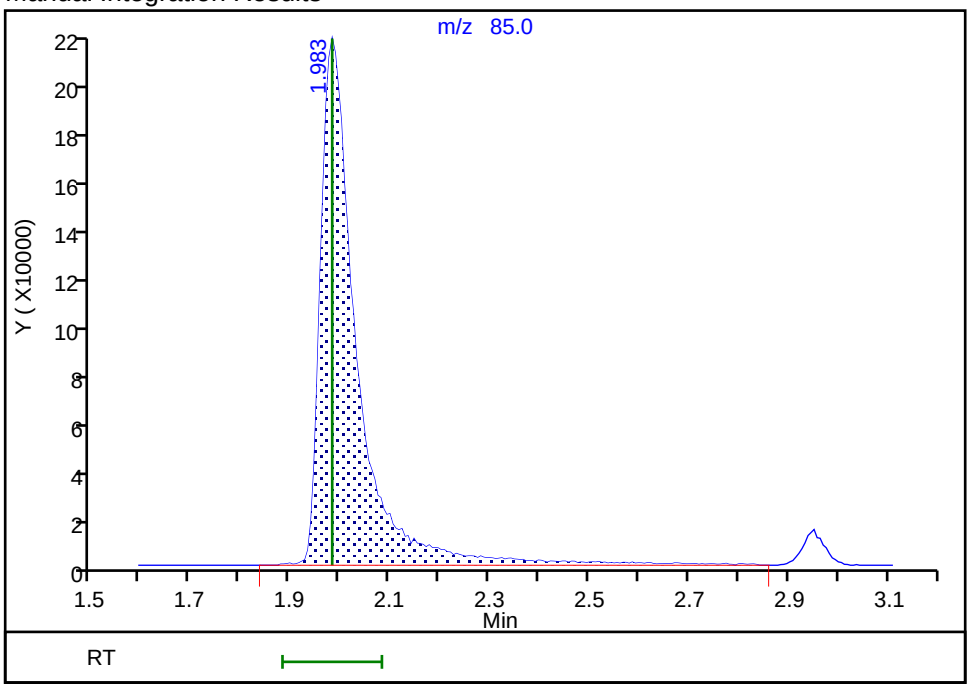
Processing Integration Results

RT: 1.98
Area: 1057222
Amount: 12.315114
Amount Units: ug/l



Manual Integration Results

RT: 1.98
Area: 1073887
Amount: 12.509238
Amount Units: ug/l



Reviewer: campbellme, 03-Mar-2021 20:11:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

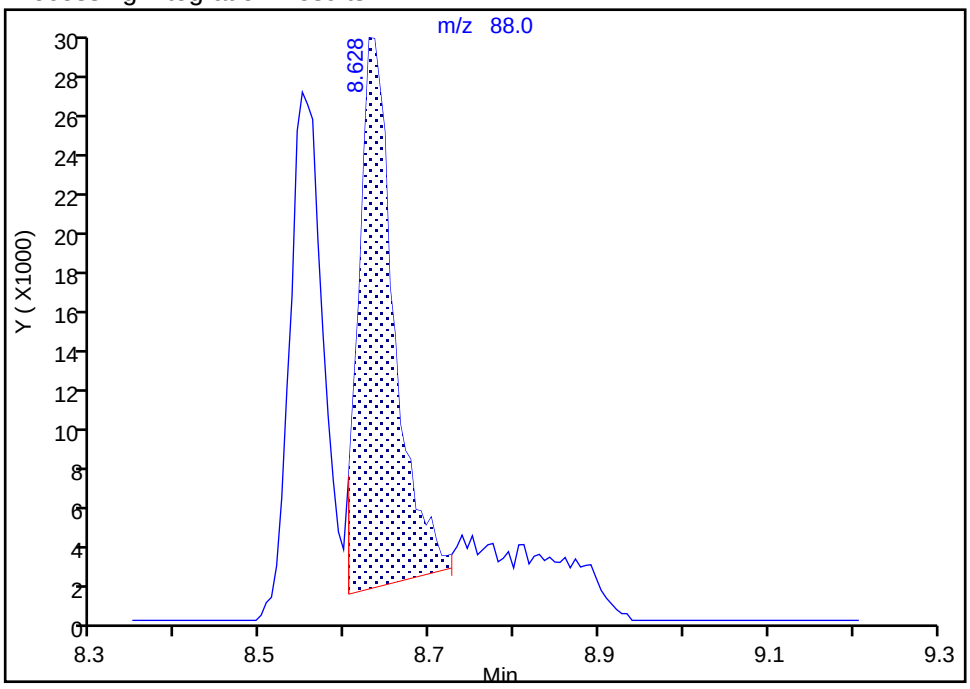
Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03C31.D				
Injection Date:	03-Mar-2021 19:28:30	Instrument ID:	19930		
Lims ID:	CCVIS VSTD12.5				
Client ID:					
Operator ID:	MEC29284	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	8260 25ml HP31	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

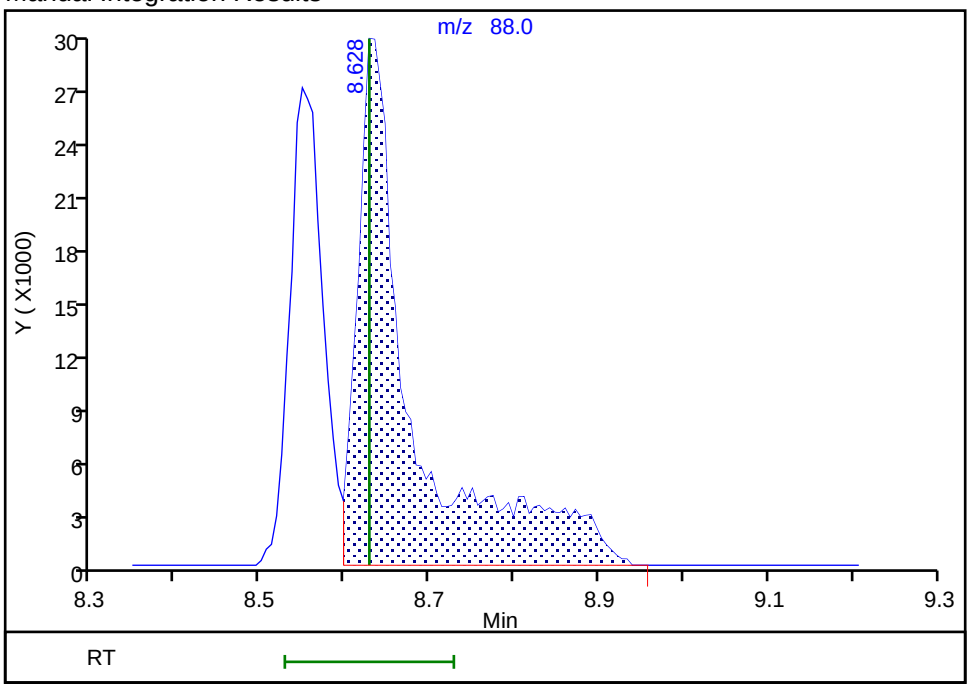
Processing Integration Results

RT: 8.63
Area: 79916
Amount: 266.1897
Amount Units: ug/l



Manual Integration Results

RT: 8.63
Area: 131014
Amount: 436.3904
Amount Units: ug/l



Reviewer: campbellme, 03-Mar-2021 20:12:23
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\20201130-16641.b\GN30T01.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	30-Nov-2020 11:46:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0016641-001				
Misc. Info.:	BFB				
Operator ID:	DVV10203	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	01-Dec-2020 19:03:51	Calib Date:	30-Nov-2020 18:23:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1610				
First Level Reviewer: virayd		Date:	30-Nov-2020 12:10:04		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 165 BFB	95	5.188	5.188	0.000	87	489350	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

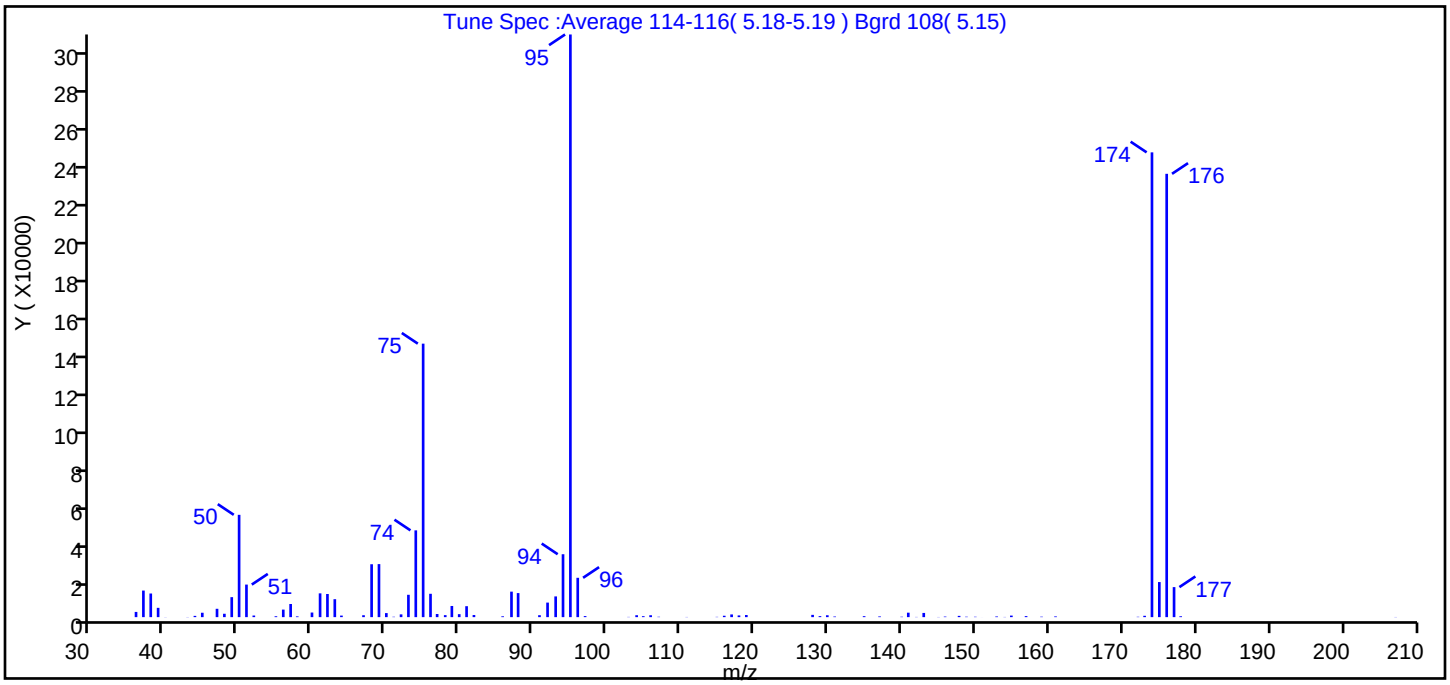
MSV_V_BFB_00003 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30T01.D
Injection Date: 30-Nov-2020 11:46:30 Instrument ID: 16334
Lims ID: bfb
Client ID:
Operator ID: DVV10203 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

$ 165 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.6
75	30 to 60% of m/z 95	46.9
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.2 (0.3)
174	50 to 120% of m/z 95	79.8
175	5 to 9% of m/z 174	6.0 (7.5)
176	Greater than 95% but less than 101% of m/z 174	76.1 (95.4)
177	5 to 9% of m/z 176	5.2 (6.8)

Data File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30T01.D\MSV_16334_25mL.rslt\spectra.d
Injection Date: 30-Nov-2020 11:46:30
Spectrum: Tune Spec :Average 114-116(5.18-5.19) Bgrd 108(5.15)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 90

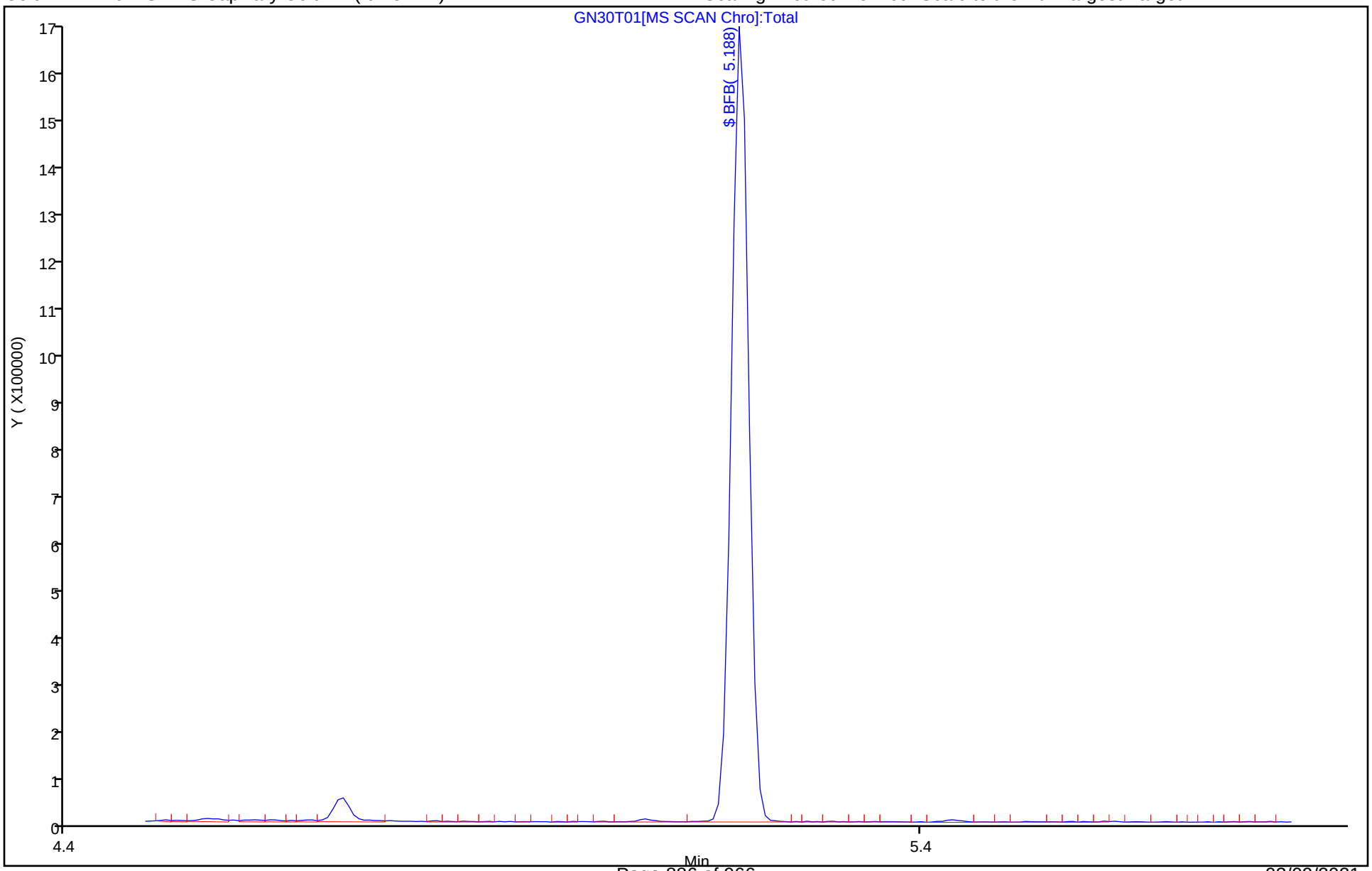
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2772	67.00	1018	95.00	309376	143.00	2233
37.00	14113	68.00	28088	96.00	20888	145.00	88
38.00	12552	69.00	28160	97.00	561	146.00	300
39.00	4939	70.00	2151	103.00	123	148.00	674
40.00	58	71.00	201	104.00	1021	149.00	233
43.00	79	72.00	1472	105.00	508	150.00	205
44.00	676	73.00	11870	106.00	1010	151.00	14
45.00	2334	74.00	46080	107.00	199	153.00	361
47.00	4434	75.00	145216	111.00	97	154.00	104
48.00	1797	76.00	12401	115.00	150	155.00	827
49.00	10611	77.00	1661	116.00	743	157.00	548
50.00	54328	78.00	1061	117.00	1439	159.00	244
51.00	17288	79.00	5926	118.00	918	161.00	384
52.00	859	80.00	1585	119.00	1116	172.00	191
55.00	472	81.00	5817	128.00	1210	173.00	717
56.00	4009	82.00	1125	129.00	530	174.00	246784
57.00	6977	86.00	445	130.00	998	175.00	18624
58.00	399	87.00	13538	131.00	327	176.00	235392
60.00	2452	88.00	12773	135.00	505	177.00	15946
61.00	12629	91.00	1031	137.00	380	178.00	459
62.00	12288	92.00	7724	140.00	215	207.00	85
63.00	9532	93.00	11009	141.00	2365		
64.00	829	94.00	33408	142.00	111		

Report Date: 01-Dec-2020 19:03:51 Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30T01.D				
Injection Date:	30-Nov-2020 11:46:30	Instrument ID:	16334	Operator ID:	DVV10203
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: 2



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03T02.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	03-Mar-2021 08:28:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0023166-001				
Misc. Info.:	BFB				
Operator ID:	SRK36897	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20210303-23166.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	03-Mar-2021 14:02:43	Calib Date:	30-Nov-2020 18:23:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1663				

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	90	165778	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

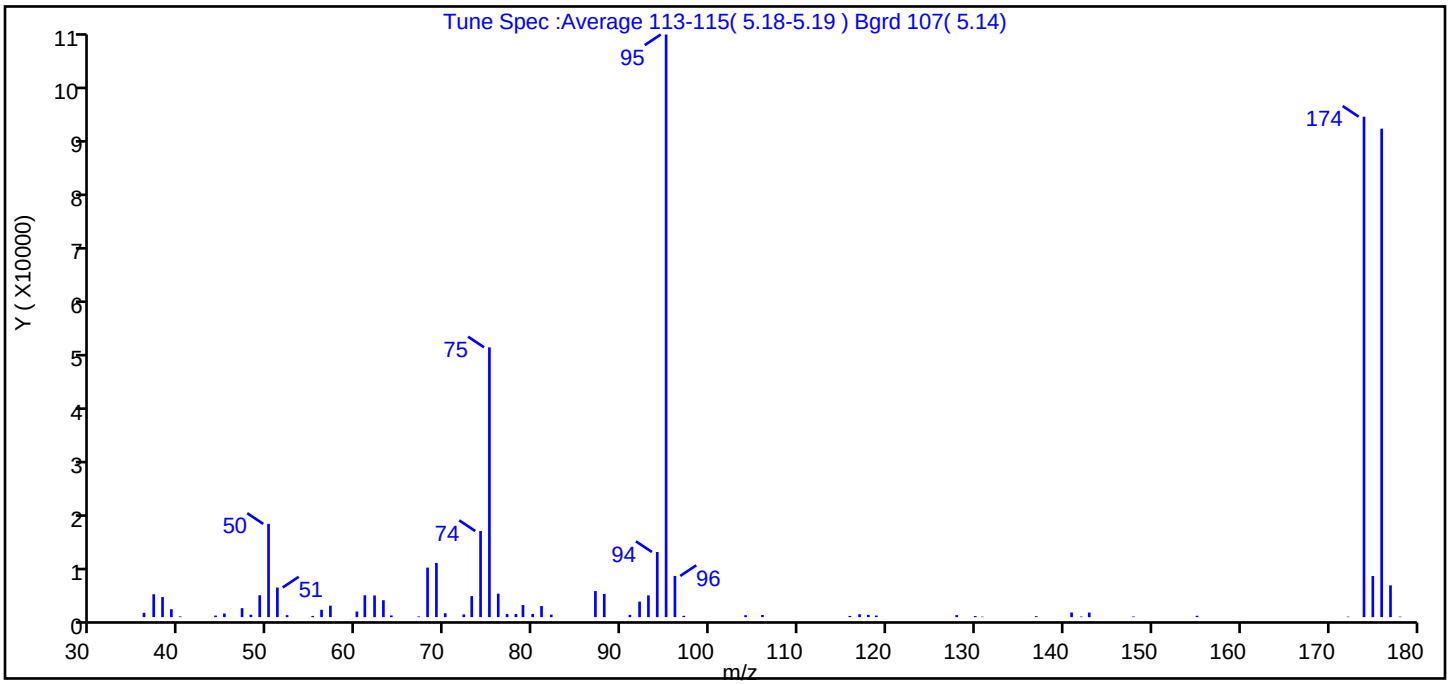
MSV_V_BFB_00004 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03T02.D
Injection Date: 03-Mar-2021 08:28:30 Instrument ID: 16334
Lims ID: BFB
Client ID:
Operator ID: SRK36897 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	16.0
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	0.0 (0.0)
174	50 to 120% of m/z 95	85.9
175	5 to 9% of m/z 174	7.1 (8.2)
176	Greater than 95% but less than 101% of m/z 174	83.8 (97.6)
177	5 to 9% of m/z 176	5.5 (6.5)

Data File: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03T02.D\MSV_16334_25mL.rslt\spectra.d
Injection Date: 03-Mar-2021 08:28:30
Spectrum: Tune Spec :Average 113-115(5.18-5.19) Bgrd 107(5.14)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 66

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	774	61.00	3908	81.00	1988	128.00	363
37.00	4096	62.00	3885	82.00	444	130.00	202
38.00	3592	63.00	3029	87.00	4667	131.00	84
39.00	1422	64.00	307	88.00	4154	137.00	177
40.00	128	67.00	125	91.00	408	141.00	835
44.00	283	68.00	8863	92.00	2781	142.00	103
45.00	647	69.00	9696	93.00	3891	143.00	819
47.00	1609	70.00	700	94.00	11655	148.00	111
48.00	436	72.00	482	95.00	104248	155.00	247
49.00	3917	73.00	3761	96.00	7367	172.00	93
50.00	16688	74.00	15405	97.00	240	174.00	89536
51.00	5306	75.00	48272	104.00	350	175.00	7355
52.00	359	76.00	4201	106.00	380	176.00	87392
55.00	220	77.00	563	116.00	216	177.00	5695
56.00	1315	78.00	568	117.00	516	178.00	91
57.00	2048	79.00	2155	118.00	414		
60.00	1004	80.00	577	119.00	289		

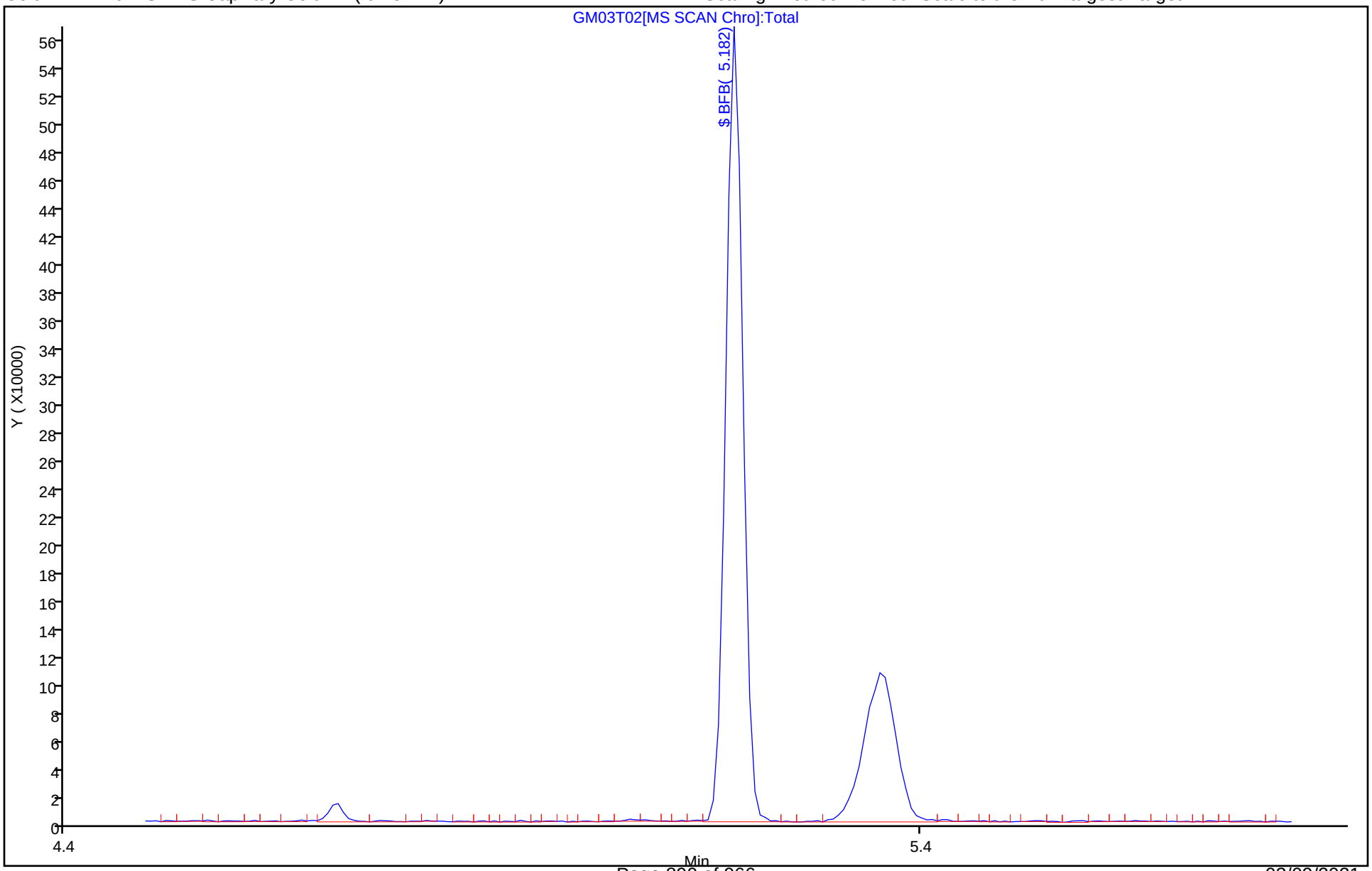
Report Date: 03-Mar-2021 14:02:44 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03T02.D

Injection Date:	03-Mar-2021 08:28:30	Instrument ID:	16334	Operator ID:	SRK36897
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: 2



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23T01.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	23-Nov-2020 11:57:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0016280-001				
Misc. Info.:	BFB				
Operator ID:	dvv10203	Instrument ID:	19930		
Method:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	23-Nov-2020 19:12:23	Calib Date:	23-Nov-2020 18:05:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1632				
First Level Reviewer: virayd		Date:	23-Nov-2020 12:07:57		

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	250527	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

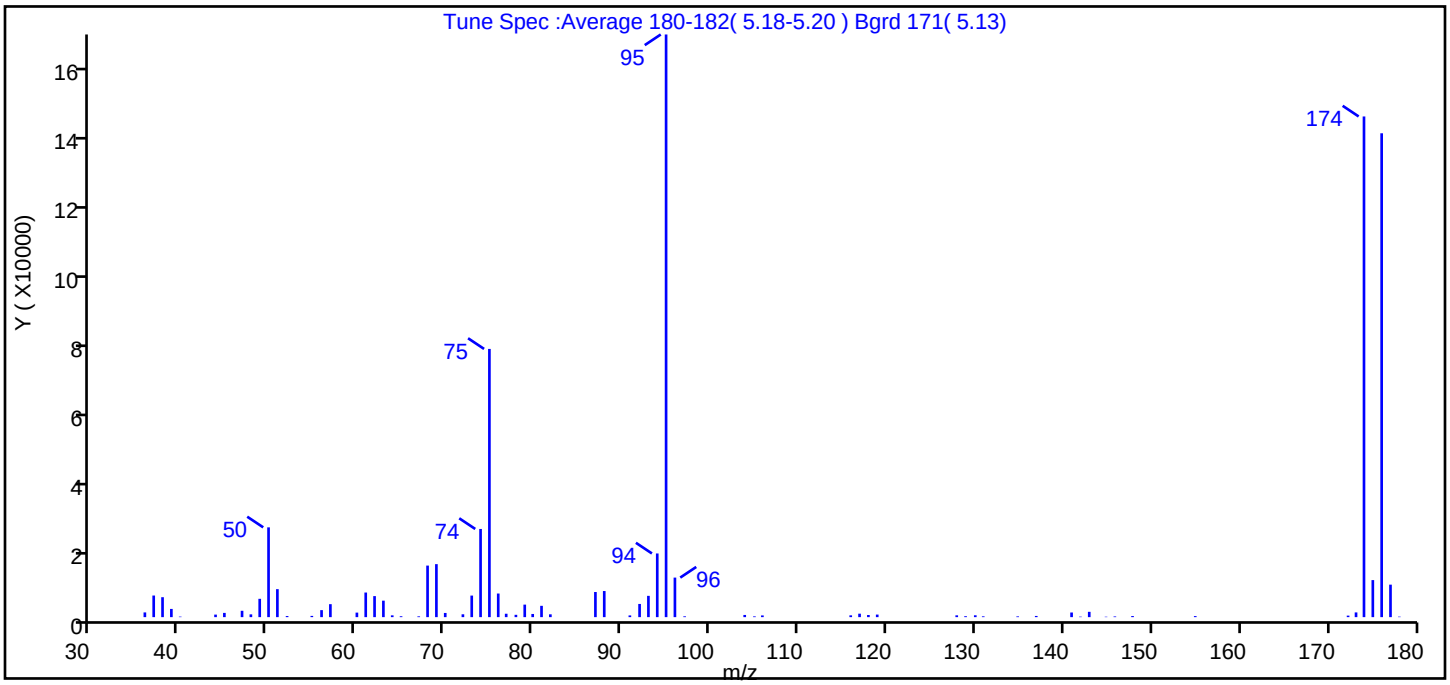
MSV_V_BFB_00003 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23T01.D				
Injection Date:	23-Nov-2020 11:57:30	Instrument ID:	19930		
Lims ID:	bfb				
Client ID:					
Operator ID:	dvv10203	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	15.4
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	85.9
175	5 to 9% of m/z 174	6.4 (7.4)
176	Greater than 95% but less than 101% of m/z 174	83.0 (96.6)
177	5 to 9% of m/z 176	5.6 (6.7)

Data File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23T01.D\8260 25ml HP31.rslt\spectra.d
Injection Date: 23-Nov-2020 11:57:30
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: 73

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1313	63.00	4581	88.00	7255	135.00	208
37.00	6006	64.00	499	91.00	477	137.00	331
38.00	5541	65.00	245	92.00	3667	141.00	1291
39.00	2285	67.00	217	93.00	5918	142.00	135
40.00	143	68.00	14328	94.00	17696	143.00	1478
44.00	706	69.00	14730	95.00	161920	145.00	118
45.00	1180	70.00	1164	96.00	10989	146.00	193
47.00	1767	72.00	795	97.00	225	148.00	300
48.00	774	73.00	5993	104.00	608	155.00	291
49.00	5093	74.00	24504	105.00	210	172.00	424
50.00	24952	75.00	74536	106.00	478	173.00	1314
51.00	7780	76.00	6564	116.00	501	174.00	139136
52.00	307	77.00	946	117.00	962	175.00	10294
55.00	348	78.00	648	118.00	596	176.00	134464
56.00	1950	79.00	3480	119.00	713	177.00	9030
57.00	3607	80.00	882	128.00	503	178.00	135
60.00	1259	81.00	3145	129.00	259		
61.00	6839	82.00	786	130.00	514		
62.00	5847	87.00	6985	131.00	222		

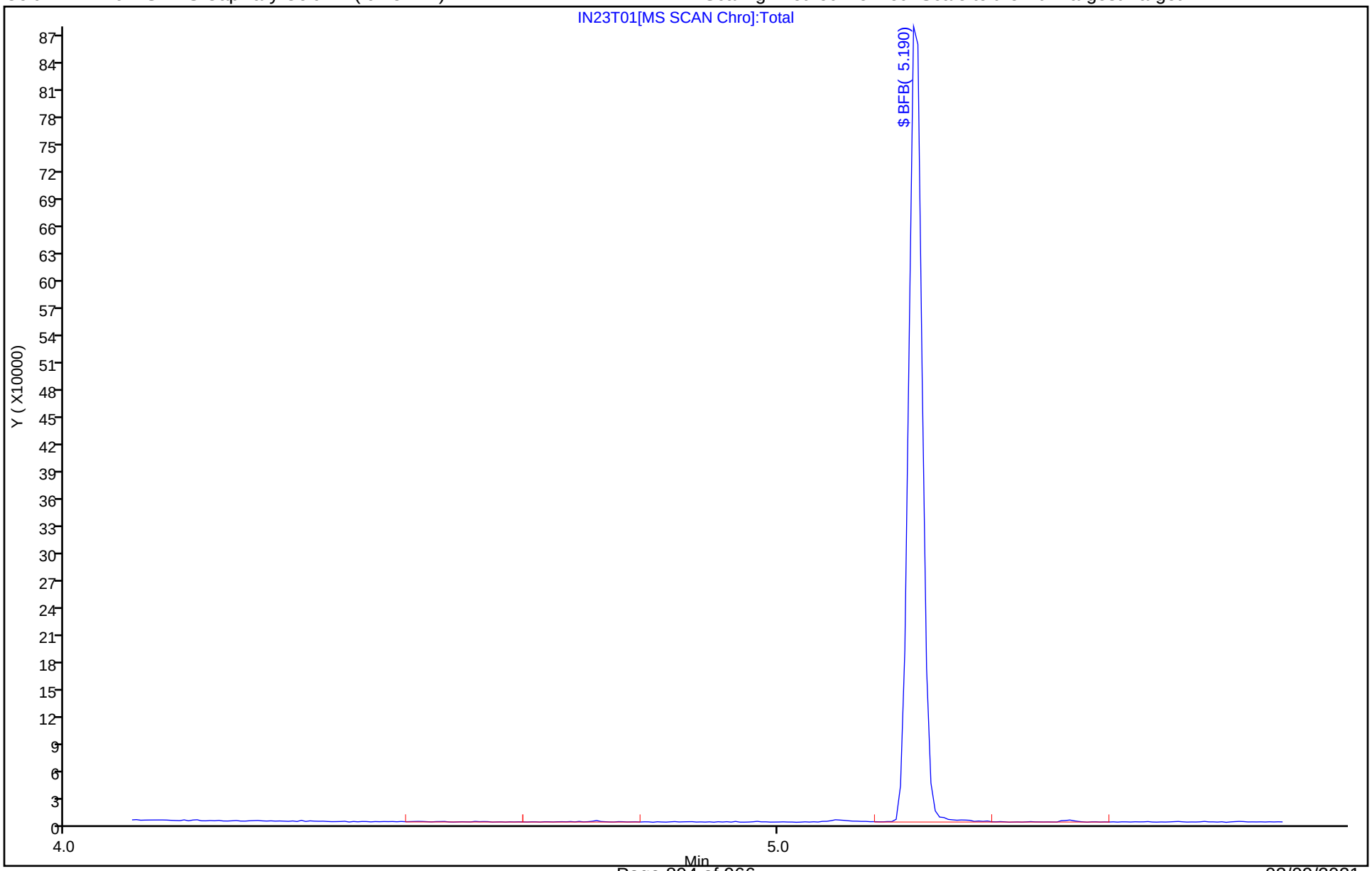
Report Date: 23-Nov-2020 19:12:23 Chrom Revision: 2.3 13-Nov-2020 01:23:02

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23T01.D

Injection Date:	23-Nov-2020 11:57:30	Instrument ID:	19930	Operator ID:	dvv10203
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: 2



Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03T31.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	03-Mar-2021 18:52:30	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\20210303-23228.b\8260 25ml HP31.m				
Limit Group:	MSV - 8260C_D				
Last Update:	03-Mar-2021 21:09:34	Calib Date:	23-Nov-2020 18:05:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1646				
First Level Reviewer: campbellme		Date:	03-Mar-2021 19:04:47		

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	216334	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

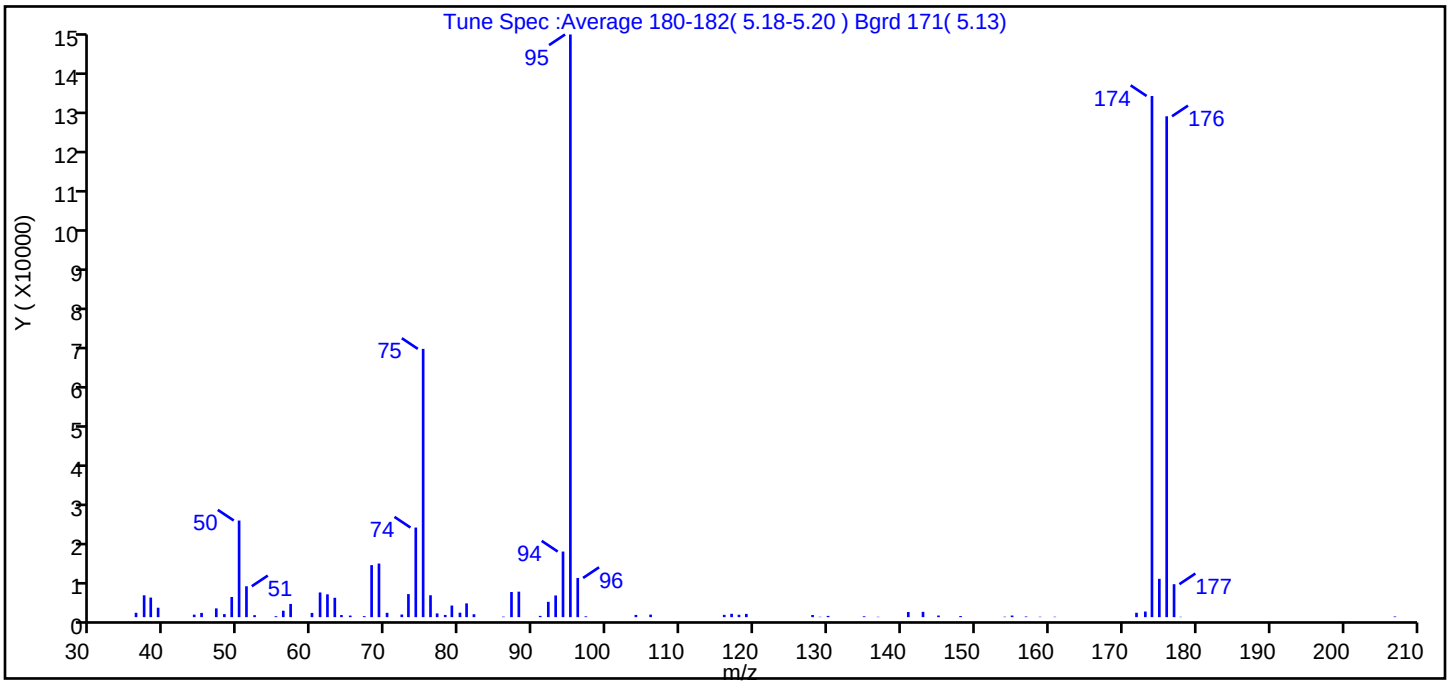
MSV_V_BFB_00004 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03T31.D
Injection Date: 03-Mar-2021 18:52:30 Instrument ID: 19930
Lims ID: bfb
Client ID:
Operator ID: MEC29284 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: 8260 25ml HP31 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 145 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.6
75	30 to 60% of m/z 95	46.0
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	1.0 (1.1)
174	50 to 120% of m/z 95	89.4
175	5 to 9% of m/z 174	6.6 (7.4)
176	Greater than 95% but less than 101% of m/z 174	86.0 (96.1)
177	5 to 9% of m/z 176	5.7 (6.6)

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03T31.D\8260 25ml HP31.rslt\spectra.d
Injection Date: 03-Mar-2021 18:52:30
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: 74

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1064	64.00	505	88.00	6206	141.00	1248
37.00	5317	65.00	384	91.00	306	143.00	1292
38.00	4763	67.00	245	92.00	3734	145.00	393
39.00	2294	68.00	12666	93.00	5279	148.00	259
44.00	608	69.00	13050	94.00	15974	154.00	104
45.00	1033	70.00	1050	95.00	141888	155.00	390
47.00	2132	72.00	642	96.00	9540	157.00	158
48.00	740	73.00	5614	97.00	200	159.00	97
49.00	4908	74.00	21816	104.00	544	161.00	97
50.00	23528	75.00	65328	106.00	617	172.00	1069
51.00	7521	76.00	5329	116.00	560	173.00	1363
52.00	482	77.00	910	117.00	820	174.00	126904
55.00	226	78.00	536	118.00	582	175.00	9332
56.00	1566	79.00	2828	119.00	794	176.00	121968
57.00	3217	80.00	1083	128.00	523	177.00	8025
60.00	1034	81.00	3350	129.00	86	178.00	85
61.00	6008	82.00	704	130.00	304	207.00	160
62.00	5553	86.00	125	135.00	203		
63.00	4716	87.00	6117	137.00	85		

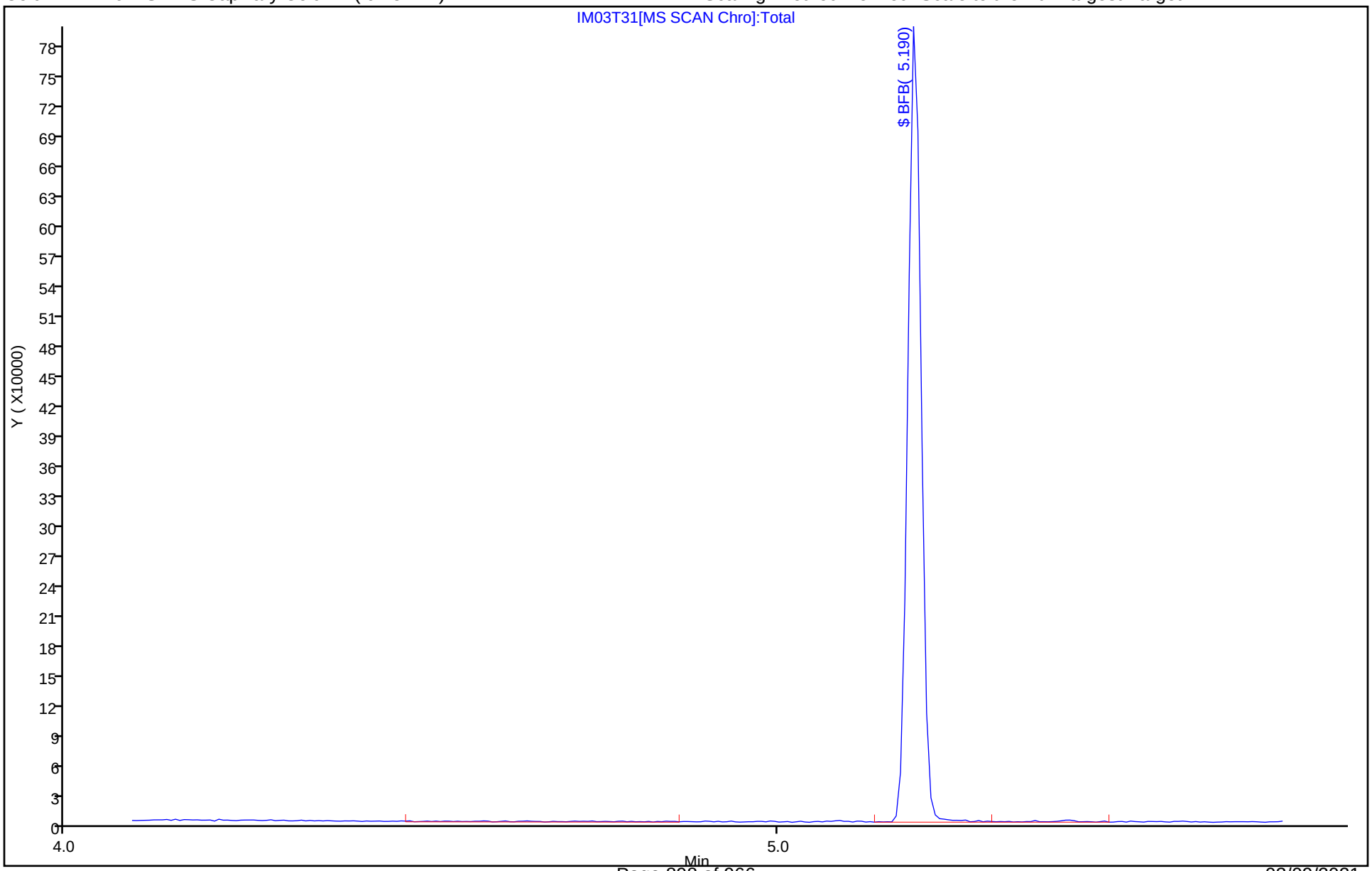
Report Date: 03-Mar-2021 21:09:34 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03T31.D

Injection Date:	03-Mar-2021 18:52:30	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: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-99025/10

Matrix: Water Lab File ID: GM03X10.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 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.: 99025 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.: 410-30627-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-99025/10

Matrix: Water Lab File ID: GM03X10.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 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.: 99025 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)	96		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\16334\20210303-23166.b\GM03X10.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 03-Mar-2021 11:51:30 ALS Bottle#: 10 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023166-010
Misc. Info.: MB
Operator ID: SRK36897 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2021 12:03:33 Calib Date: 30-Nov-2020 18:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1663

First Level Reviewer: knouses Date: 03-Mar-2021 12:49:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.885					ND	
2 Dichlorodifluoromethane	85		1.940					ND	
3 Chlorodifluoromethane	51		1.959					ND	
4 Dimethyl ether	45		2.032					ND	
5 Chloromethane	50		2.136					ND	
6 2-Chloro-1,1,1-Trifluoroethane	118		2.233					ND	
7 Butadiene	39		2.245					ND	7
8 Vinyl chloride	62		2.251					ND	
9 Bromomethane	94		2.568					ND	
10 Chloroethane	64		2.660					ND	
12 Dichlorofluoromethane	67		2.892					ND	
13 Trichlorofluoromethane	101		2.952					ND	
14 Ethanol	45		3.111					ND	
15 Ethyl ether	59		3.202					ND	
17 1,2-Dichloro-1,1,2-trifluoroetha	67		3.282					ND	
18 Acrolein	56		3.373					ND	
19 1,1-Dichloroethene	96		3.507					ND	
20 112TCTFE	101		3.544					ND	
21 Acetone	43		3.544					ND	
23 Iodomethane	142		3.696					ND	
22 Isopropyl alcohol	45		3.721					ND	
24 Ethyl bromide	108		3.727					ND	
25 Carbon disulfide	76		3.794					ND	
26 Acetonitrile	41		3.940					ND	
27 Methyl acetate	43		3.952					ND	
28 3-Chloro-1-propene	41		3.977					ND	
29 Methylene Chloride	84		4.166					ND	
* 30 t-Butyl alcohol-d10 (IS)	65	4.196	4.178	0.018	0	171790	50.0	50.0	
31 2-Methyl-2-propanol	59		4.306					ND	
32 Acrylonitrile	53		4.507					ND	
33 Methyl tert-butyl ether	73		4.568					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 trans-1,2-Dichloroethene	96		4.568					ND	
35 Hexane	57		4.995					ND	
36 Vinyl acetate	43		5.233					ND	
37 1,1-Dichloroethane	63		5.239					ND	
38 Isopropyl ether	45		5.300					ND	
39 2-Chloro-1,3-butadiene	53		5.342					ND	
40 Tert-butyl ethyl ether	59		5.830					ND	
41 2-Butanone (MEK)	43		6.049					ND	
42 cis-1,2-Dichloroethene	96		6.080					ND	
43 2,2-Dichloropropane	77		6.086					ND	
44 Ethyl acetate	43		6.104					ND	
45 Propionitrile	54		6.147					ND	
S 46 1,2-Dichloroethene, Total	100		6.155					ND	7
47 Methyl acrylate	55		6.171					ND	
48 Methacrylonitrile	67		6.360					ND	
49 Chlorobromomethane	128		6.403					ND	
50 Tetrahydrofuran	71		6.409					ND	
51 Chloroform	83		6.562					ND	
$ 52 Dibromofluoromethane (Surr)	113	6.781	6.775	0.006	94	465494	10.0	10.0	
53 1,1,1-Trichloroethane	97		6.787					ND	
54 Cyclohexane	56		6.872					ND	
55 1-Chlorobutane	56		6.940					ND	
56 Carbon tetrachloride	117		6.988					ND	
57 1,1-Dichloropropene	75		7.000					ND	
58 Isobutyl alcohol	41		7.165					ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.226	7.232	-0.006	0	100605	10.0	10.2	
60 Benzene	78		7.263					ND	
61 1,2-Dichloroethane	62		7.336					ND	
62 Isopropyl acetate	43		7.348					ND	
63 Tert-amyl methyl ether	73		7.452					ND	
* 64 Fluorobenzene (IS)	96	7.671	7.665	0.006	99	1917321	10.0	10.0	
65 n-Heptane	43		7.671					ND	
66 t-Amyl alcohol	73		7.842					ND	
67 n-Butanol	56		8.043					ND	
68 Trichloroethene	95		8.140					ND	
69 Methylcyclohexane	83		8.445					ND	
70 1,2-Dichloropropane	63		8.482					ND	
71 2-ethoxy-2-methyl butane	87		8.488					ND	
72 Methyl methacrylate	69		8.567					ND	
73 1,4-Dioxane	88		8.567					ND	
74 Dibromomethane	93		8.586					ND	
75 n-Propyl acetate	61		8.646					ND	
76 Dichlorobromomethane	83		8.823					ND	
77 2-Nitropropane	41		9.110					ND	
78 Chloroacetonitrile	75		9.189					ND	
79 2-Chloroethyl vinyl ether	63		9.195					ND	
80 1-Bromo-2-chloroethane	63		9.213					ND	
81 cis-1,3-Dichloropropene	75		9.372					ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.555					ND	
$ 83 Toluene-d8 (Surr)	98	9.683	9.683	0.000	93	1864374	10.0	10.1	
84 Toluene	92		9.762					ND	7
96 trans-1,3-Dichloropropene	75		10.018					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		10.079					ND	
99 1,1,2-Trichloroethane	97		10.225					ND	
100 Tetrachloroethene	166		10.311					ND	
101 1,3-Dichloropropane	76		10.390					ND	
102 2-Hexanone	43		10.445					ND	
103 n-Butyl acetate	43		10.567					ND	
104 Chlorodibromomethane	129		10.603					ND	
105 Ethylene Dibromide	107		10.707					ND	
* 106 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	86	1388571	10.0	10.0	
107 1-Chlorohexane	91		11.152					ND	7
108 Chlorobenzene	112		11.170					ND	
S 109 Xylenes, Total	106		11.245					ND	7
110 1,1,1,2-Tetrachloroethane	131		11.250					ND	
111 Ethylbenzene	91		11.256					ND	
112 m-Xylene & p-Xylene	106		11.372					ND	
113 o-Xylene	106		11.701					ND	
114 Styrene	104		11.713					ND	
115 Bromoform	173		11.871					ND	
116 Isopropylbenzene	105		11.999					ND	
117 cis-1,4-Dichloro-2-butene	88		12.054					ND	U
118 Cyclohexanone	55		12.085					ND	U
$ 119 4-Bromofluorobenzene (Surr)	95	12.140	12.140	0.000	92	681349	10.0	9.63	
120 1,1,2,2-Tetrachloroethane	83		12.249					ND	
121 Bromobenzene	156		12.256					ND	
122 trans-1,4-Dichloro-2-butene	53		12.274					ND	
123 1,2,3-Trichloropropane	110		12.292					ND	
124 N-Propylbenzene	91		12.329					ND	
125 2-Chlorotoluene	126		12.402					ND	
126 1,3,5-Trimethylbenzene	105		12.463					ND	
127 4-Chlorotoluene	126		12.493					ND	
128 tert-Butylbenzene	134		12.707					ND	
129 Pentachloroethane	167		12.737					ND	
130 1,2,4-Trimethylbenzene	105		12.743					ND	
131 sec-Butylbenzene	105		12.865					ND	
132 1,3-Dichlorobenzene	146		12.963					ND	7
133 4-Isopropyltoluene	119		12.975					ND	
* 134 1,4-Dichlorobenzene-d4	152	13.018	13.018	0.000	95	774763	10.0	10.0	
135 1,4-Dichlorobenzene	146		13.036					ND	7
136 1,2,3-Trimethylbenzene	120		13.048					ND	7
137 Benzyl chloride	126		13.115					ND	7
138 p-Diethylbenzene	119		13.170					ND	
139 n-Butylbenzene	92		13.261					ND	
140 1,2-Dichlorobenzene	146		13.298					ND	
141 Hexachloroethane	201		13.505					ND	
142 1,2-Dibromo-3-Chloropropane	155		13.835					ND	
143 1,3,5-Trichlorobenzene	180		13.956					ND	
144 1,2,4-Trichlorobenzene	180		14.377					ND	
145 Hexachlorobutadiene	225		14.462					ND	
146 Naphthalene	128		14.560					ND	7
147 1,2,3-Trichlorobenzene	180		14.700					ND	
148 2-Methylnaphthalene	142	15.316	15.316	0.000	1	1228		0.0104	

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	
150 2-Bromo-1-chloropropane	1		0.000					ND	
151 1-Chloropropane	1		0.000					ND	
152 1-Bromo-3-Chloropropane	1		0.000					ND	
153 Propene oxide	1		0.000					ND	
154 n-Decane	57		0.000					ND	
155 Methylal	1		0.000					ND	
156 Dodecane	57		0.000					ND	
157 tert-Butyl Formate	1		0.000					ND	
158 1,3-Dichloro-2-propanol TIC	1		0.000					ND	
159 Propargyl alcohol TIC	1		0.000					ND	
160 Pentane	43		0.000					ND	
161 1,1-Dichloroacetone	1		0.000					ND	
162 Pentachloroethane TIC	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_29_826ISS_00015 Amount Added: 1.00 Units: uL Run Reagent

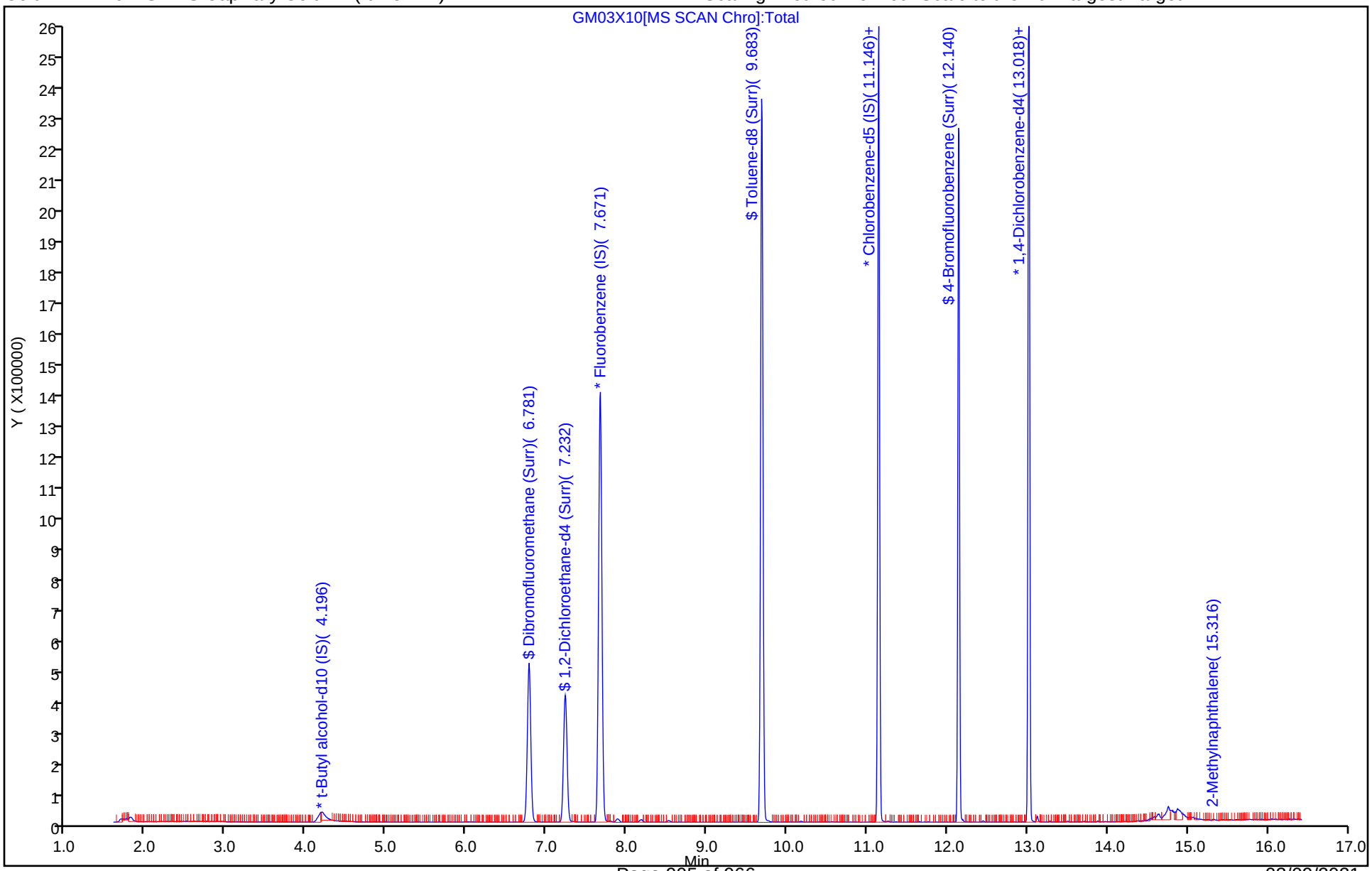
Report Date: 03-Mar-2021 14:04:08 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X10.D

Injection Date:	03-Mar-2021 11:51:30	Instrument ID:	16334	Operator ID:	SRK36897
Lims ID:	MB			Worklist Smp#:	10
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
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: 2



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X10.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	03-Mar-2021 11:51:30	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0023166-010				
Misc. Info.:	MB				
Operator ID:	SRK36897	Instrument ID:	16334		
Method:	\\chromfs\Lancaster\ChromData\16334\20210303-23166.b\MSV_16334_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	03-Mar-2021 12:03:33	Calib Date:	30-Nov-2020 18:23:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1663				

First Level Reviewer: knouses Date: 03-Mar-2021 12:49:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.0	100.31
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	101.90
$ 83 Toluene-d8 (Surr)	10.0	10.1	100.64
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.63	96.33

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-99333/8

Matrix: Water Lab File ID: IM03B31.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 21:15

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.: 99333 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.: 410-30627-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 410-99333/8

Matrix: Water Lab File ID: IM03B31.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 21:15

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.: 99333 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)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		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\19930\20210303-23228.b\IM03B31.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 03-Mar-2021 21:15:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-008
Misc. Info.: MB
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2021 21:49:42 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1646

First Level Reviewer: campbellme Date: 03-Mar-2021 21:49:42

	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					ND	
2	Chlorodifluoromethane	51		1.983					ND	
3	Dimethyl ether	45		2.050					ND	
4	Chloromethane	50		2.184					ND	
6	Butadiene	39		2.294					ND	7
5	Vinyl chloride	62		2.306					ND	
7	Bromomethane	94		2.629					ND	
8	Chloroethane	64		2.709					ND	
9	Dichlorofluoromethane	67		2.952					ND	
10	Trichlorofluoromethane	101		3.019					ND	
11	Ethyl ether	59		3.263					ND	
12	1,2-Dichloro-1,1,2-trifluoroetha	67		3.343					ND	
13	Acrolein	56		3.434					ND	7
14	1,1-Dichloroethene	96		3.574					ND	
15	Acetone	43		3.605					ND	7
16	112TCTFE	101		3.623					ND	
17	Iodomethane	142		3.775					ND	
18	Ethyl bromide	108		3.806					ND	
19	Carbon disulfide	76		3.885					ND	7
20	Acetonitrile	41		3.989					ND	
21	Methyl acetate	43		4.025					ND	
22	3-Chloro-1-propene	41		4.062					ND	
23	Methylene Chloride	84		4.251					ND	
* 24	t-Butyl alcohol-d10 (IS)	65	4.257	4.275	-0.018	0	179232	50.0	50.0	
25	2-Methyl-2-propanol	59		4.397					ND	
26	Acrylonitrile	53		4.586					ND	
27	Methyl tert-butyl ether	73		4.659					ND	
28	trans-1,2-Dichloroethene	96		4.672					ND	
29	Hexane	57		5.098					ND	
31	1,1-Dichloroethane	63		5.330					ND	
30	Vinyl acetate	43		5.336					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		5.385				ND		
	33 2-Chloro-1,3-butadiene	53		5.440				ND		
	34 Tert-butyl ethyl ether	59		5.921				ND		
	36 2-Butanone (MEK)	43		6.122				ND		
S	35 1,2-Dichloroethene, Total	100		6.155				ND		7
	37 cis-1,2-Dichloroethene	96		6.159				ND		
	38 2,2-Dichloropropane	77		6.177				ND		
	39 Ethyl acetate	43		6.196				ND		
	40 Propionitrile	54		6.214				ND		
	41 Methyl acrylate	55		6.263				ND		
	42 Methacrylonitrile	67		6.433				ND		
	43 Chlorobromomethane	128		6.488				ND		
	44 Tetrahydrofuran	71		6.494				ND		
	45 Chloroform	83		6.641				ND		
$	46 Dibromofluoromethane (Surr)	113	6.848	6.854	-0.006	94	552904	10.0	10.2	
	47 1,1,1-Trichloroethane	97		6.866				ND		
	48 Cyclohexane	56		6.964				ND		
	49 1-Chlorobutane	56		7.025				ND		
	51 1,1-Dichloropropene	75		7.074				ND		
	50 Carbon tetrachloride	117		7.080				ND		
	52 Isobutyl alcohol	41		7.226				ND		
$	53 1,2-Dichloroethane-d4 (Surr)	102	7.305	7.305	0.000	0	112026	10.0	10.2	
	54 Benzene	78		7.336				ND		
	56 1,2-Dichloroethane	62		7.409				ND		
	55 Isopropyl acetate	43		7.421				ND		
	57 Tert-amyl methyl ether	73		7.525				ND		
*	58 Fluorobenzene (IS)	96	7.738	7.738	0.000	99	2203806	10.0	10.0	
	59 n-Heptane	43		7.750				ND		7
	60 n-Butanol	56		8.092				ND		
	61 Trichloroethene	95		8.214				ND		
	62 Methylcyclohexane	83		8.524				ND		
	63 1,2-Dichloropropane	63		8.549				ND		
	64 Methyl methacrylate	69		8.628				ND		
	65 1,4-Dioxane	88		8.628				ND		
	66 Dibromomethane	93		8.659				ND		
	67 n-Propyl acetate	43		8.714				ND		
	68 Dichlorobromomethane	83		8.890				ND		
	69 2-Nitropropane	41		9.158				ND		7
	70 Chloroacetonitrile	75		9.232				ND		
	71 2-Chloroethyl vinyl ether	63		9.250				ND		
	72 1-Bromo-2-chloroethane	63		9.280				ND		
	73 cis-1,3-Dichloropropene	75		9.433				ND		
	74 4-Methyl-2-pentanone (MIBK)	43		9.597				ND		7
$	75 Toluene-d8 (Surr)	98	9.738	9.738	0.000	93	2177414	10.0	9.82	
	76 Toluene	92		9.817				ND		7
S	77 1,3-Dichloropropene, Total	100		10.060				ND		7
	78 trans-1,3-Dichloropropene	75		10.067				ND		
	79 Ethyl methacrylate	69		10.128				ND		
	80 1,1,2-Trichloroethane	97		10.274				ND		
	81 Tetrachloroethene	166		10.366				ND		
	82 1,3-Dichloropropane	76		10.433				ND		
	83 2-Hexanone	43		10.481				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		10.610					ND	
85 Chlorodibromomethane	129		10.652					ND	
86 Ethylene Dibromide	107		10.762					ND	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	0.000	85	1698029	10.0	10.0	
88 1-Chlorohexane	91		11.195					ND	7
90 Chlorobenzene	112		11.213					ND	
S 89 Xylenes, Total	106		11.245					ND	7
91 1,1,1,2-Tetrachloroethane	131		11.298					ND	
92 Ethylbenzene	91		11.298					ND	
93 m-Xylene & p-Xylene	106		11.414					ND	
94 o-Xylene	106		11.743					ND	
95 Styrene	104		11.756					ND	
96 Bromoform	173		11.914					ND	
97 Isopropylbenzene	105		12.042					ND	
98 cis-1,4-Dichloro-2-butene	88		12.085					ND	U
99 Cyclohexanone	55		12.121					ND	
$ 100 4-Bromofluorobenzene (Surr)	95	12.188	12.182	0.006	95	800519	10.0	9.75	
101 1,1,2,2-Tetrachloroethane	83		12.286					ND	
102 Bromobenzene	156		12.304					ND	
103 trans-1,4-Dichloro-2-butene	53		12.310					ND	
104 1,2,3-Trichloropropane	110		12.329					ND	
105 N-Propylbenzene	91		12.371					ND	
106 2-Chlorotoluene	126		12.444					ND	
107 1,3,5-Trimethylbenzene	105		12.505					ND	
108 4-Chlorotoluene	126		12.536					ND	
109 tert-Butylbenzene	134		12.743					ND	
110 Pentachloroethane	167		12.780					ND	
111 1,2,4-Trimethylbenzene	105		12.786					ND	
112 sec-Butylbenzene	105	12.908	12.908	0.000	89	1787		0.004480	a
113 1,3-Dichlorobenzene	146		13.011					ND	
114 4-Isopropyltoluene	119	13.017	13.017	0.000	93	1529		0.004495	7a
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	94	963700	10.0	10.0	
116 1,4-Dichlorobenzene	146		13.085					ND	7
117 1,2,3-Trimethylbenzene	120		13.091					ND	7
118 Benzyl chloride	126		13.158					ND	
119 n-Butylbenzene	92		13.310					ND	7
120 1,2-Dichlorobenzene	146		13.341					ND	
121 Hexachloroethane	117		13.542					ND	
122 1,2-Dibromo-3-Chloropropane	155		13.883					ND	
123 1,3,5-Trichlorobenzene	180		14.011					ND	7
124 1,2,4-Trichlorobenzene	180		14.432					ND	7
125 Hexachlorobutadiene	225	14.517	14.517	0.000	87	1654		0.0363	
126 Naphthalene	128		14.615					ND	7
127 1,2,3-Trichlorobenzene	180		14.755					ND	7
128 Dodecane	57		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	
132 Methylal	1		0.000					ND	
133 t-Amyl alcohol	1		0.000					ND	
134 Isopropyl alcohol	45		0.000					ND	
141 1-Chloropropane	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
129 Propene oxide	1		0.000					ND	
130 Chlorotrifluoroethene	1		0.000					ND	
139 1-Bromo-3-Chloropropane	1		0.000					ND	
143 n-Decane	57		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	
204 Pentane	43		0.000					ND	
140 Ethanol	45		3.288					ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected
a - User Assigned ID

Reagents:

MSV_31_826ISS_00004 Amount Added: 5.00 Units: uL Run Reagent

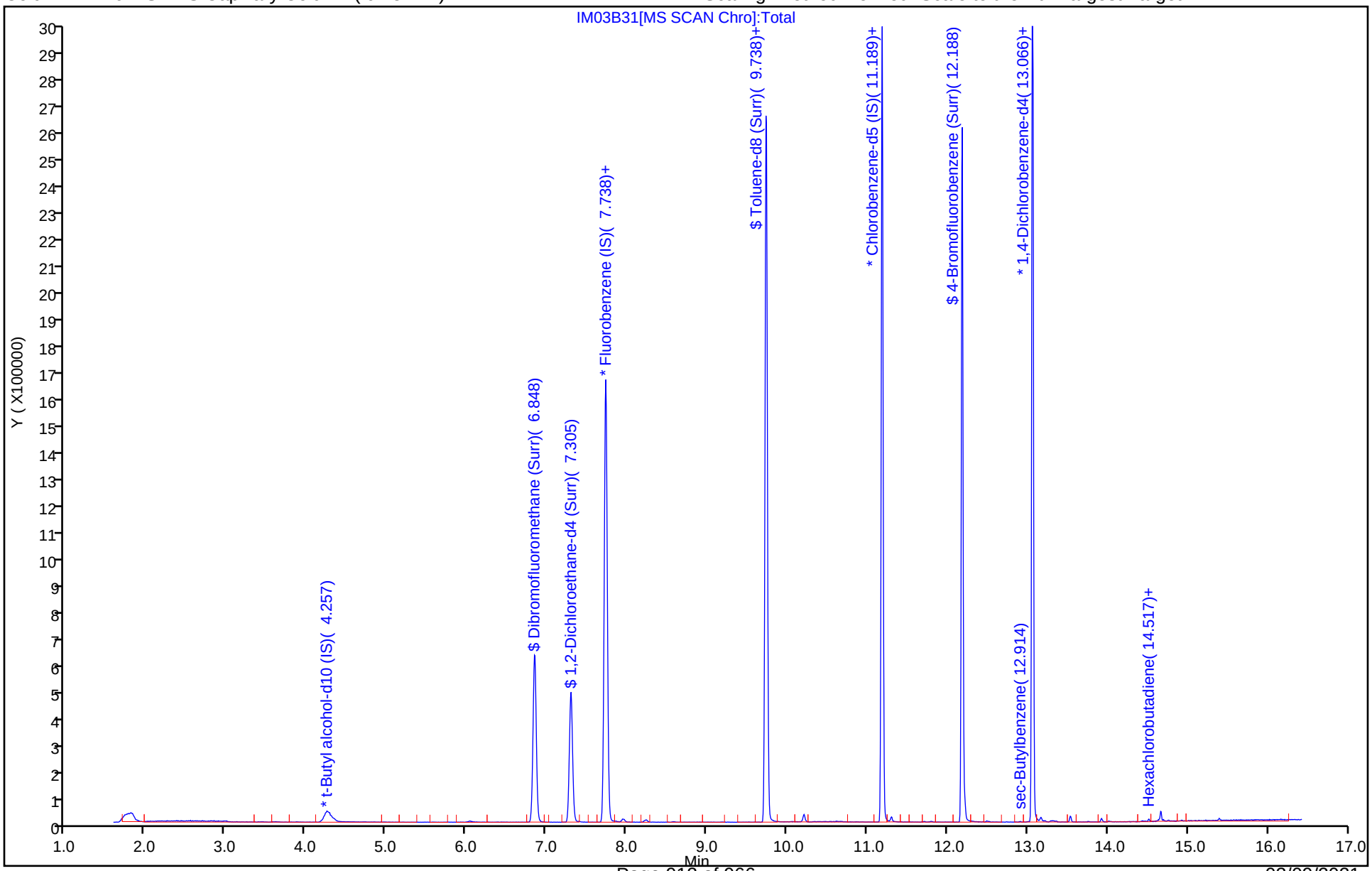
Report Date: 03-Mar-2021 21:49:59 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03B31.D

Injection Date:	03-Mar-2021 21:15:30	Instrument ID:	19930	Operator ID:	MEC29284
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: 2



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03B31.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 03-Mar-2021 21:15:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-008
Misc. Info.: MB
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2021 21:49:42 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1646

First Level Reviewer: campbellme Date: 03-Mar-2021 21:49:42

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.2	101.61
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.11
$ 75 Toluene-d8 (Surr)	10.0	9.82	98.19
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.75	97.48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-99025/5

Matrix: Water Lab File ID: GM03X05.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 10:01

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.: 99025 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.79		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.67		0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	4.67		0.50	0.070
79-00-5	1,1,2-Trichloroethane	4.78		0.50	0.060
75-34-3	1,1-Dichloroethane	4.48		0.50	0.070
75-35-4	1,1-Dichloroethene	4.75		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	4.75		0.50	0.060
107-06-2	1,2-Dichloroethane	4.35		0.50	0.050
78-87-5	1,2-Dichloropropane	4.61		0.50	0.060
78-93-3	2-Butanone (MEK)	35.9		5.0	0.60
591-78-6	2-Hexanone	23.2		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	23.3		5.0	0.70
67-64-1	Acetone	33.3		5.0	0.90
71-43-2	Benzene	4.55		0.50	0.050
74-97-5	Bromochloromethane	4.80		0.50	0.050
75-27-4	Bromodichloromethane	4.64		0.50	0.050
75-25-2	Bromoform	4.87		1.0	0.30
74-83-9	Bromomethane	4.41		0.50	0.070
75-15-0	Carbon disulfide	4.55		1.0	0.060
56-23-5	Carbon tetrachloride	4.80		0.50	0.070
108-90-7	Chlorobenzene	4.86		0.50	0.060
75-00-3	Chloroethane	4.28		0.50	0.070
67-66-3	Chloroform	4.65		0.50	0.090
74-87-3	Chloromethane	4.02		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	4.76		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	4.42		0.50	0.050
124-48-1	Dibromochloromethane	4.79		0.50	0.070
100-41-4	Ethylbenzene	4.66		0.50	0.060
1634-04-4	Methyl tert-butyl ether	4.32		0.50	0.050
75-09-2	Methylene Chloride	4.77		0.50	0.070
100-42-5	Styrene	4.77		0.50	0.050
127-18-4	Tetrachloroethene	4.97		0.50	0.060
108-88-3	Toluene	4.69		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	4.74		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	4.61		0.50	0.060
79-01-6	Trichloroethene	4.66		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-99025/5

Matrix: Water Lab File ID: GM03X05.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 10:01

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.: 99025 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	4.47		0.50	0.10
1330-20-7	Xylenes, Total	14.5		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)	97		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\16334\20210303-23166.b\GM03X05.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 03-Mar-2021 10:01:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023166-005
Misc. Info.: LCS
Operator ID: SRK36897 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2021 14:02:58 Calib Date: 30-Nov-2020 18:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1663

First Level Reviewer: knouses Date: 03-Mar-2021 10:49:36

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	214295	5.00	4.23	
5 Chloromethane	50	2.135	2.136	-0.001	99	274880	5.00	4.02	
7 Butadiene	39	2.251	2.245	0.006	90	366882	5.00	4.72	
8 Vinyl chloride	62	2.251	2.251	0.000	77	260836	5.00	4.47	
9 Bromomethane	94	2.568	2.568	0.000	91	179412	5.00	4.41	
10 Chloroethane	64	2.654	2.660	-0.006	100	151717	5.00	4.28	
12 Dichlorofluoromethane	67	2.891	2.892	-0.001	97	270649	5.00	3.41	
13 Trichlorofluoromethane	101	2.952	2.952	0.000	96	325767	5.00	4.85	
15 Ethyl ether	59	3.196	3.202	-0.006	91	184662	5.00	4.66	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.288	3.282	0.006	92	251187	5.00	4.58	
18 Acrolein	56	3.373	3.373	0.000	100	199099	37.5	33.5	
19 1,1-Dichloroethene	96	3.507	3.507	0.000	98	192669	5.00	4.75	
20 112TCTFE	101	3.544	3.544	0.000	93	193746	5.00	4.88	
21 Acetone	43	3.550	3.544	0.006	99	256095	37.5	33.3	
23 Iodomethane	142	3.696	3.696	0.000	98	350885	5.00	4.63	
22 Isopropyl alcohol	45	3.727	3.721	0.006	95	47733	37.5	30.9	
24 Ethyl bromide	108	3.727	3.727	0.000	97	156124	5.03	4.42	
25 Carbon disulfide	76	3.800	3.794	0.006	99	680630	5.00	4.55	
27 Methyl acetate	43	3.958	3.952	0.006	98	97245	5.00	4.18	
28 3-Chloro-1-propene	41	3.983	3.977	0.006	94	327939	5.00	4.04	
29 Methylene Chloride	84	4.166	4.166	0.000	92	221670	5.00	4.77	
* 30 t-Butyl alcohol-d10 (IS)	65	4.190	4.178	0.012	0	156614	50.0	50.0	
31 2-Methyl-2-propanol	59	4.312	4.306	0.006	100	134881	50.0	47.9	
32 Acrylonitrile	53	4.513	4.507	0.006	99	253808	25.0	25.5	
33 Methyl tert-butyl ether	73	4.568	4.568	0.000	96	556986	5.00	4.32	
34 trans-1,2-Dichloroethene	96	4.568	4.568	0.000	99	221683	5.00	4.74	
35 Hexane	57	4.995	4.995	0.000	92	323788	5.00	4.75	
37 1,1-Dichloroethane	63	5.239	5.239	0.000	96	388439	5.00	4.48	
38 Isopropyl ether	45	5.293	5.300	-0.007	95	725608	5.00	4.11	
39 2-Chloro-1,3-butadiene	53	5.348	5.342	0.006	90	329271	5.00	4.17	
40 Tert-butyl ethyl ether	59	5.836	5.830	0.006	98	695309	5.00	4.32	

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	6.043	6.049	-0.006	100	511201	37.5	35.9	
42 cis-1,2-Dichloroethene	96	6.080	6.080	0.000	81	249731	5.00	4.76	
43 2,2-Dichloropropane	77	6.086	6.086	0.000	64	320175	5.00	4.40	
45 Propionitrile	54	6.147	6.147	0.000	98	128144	37.5	36.3	
48 Methacrylonitrile	67	6.360	6.360	0.000	93	481790	37.5	36.8	
49 Chlorobromomethane	128	6.409	6.403	0.006	95	112325	5.00	4.80	
50 Tetrahydrofuran	71	6.415	6.409	0.006	85	96002	25.0	26.1	
51 Chloroform	83	6.561	6.562	-0.001	93	388620	5.00	4.65	
$ 52 Dibromofluoromethane (Surr)	113	6.781	6.775	0.006	94	477979	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.781	6.787	-0.006	68	334217	5.00	4.67	
54 Cyclohexane	56	6.878	6.872	0.006	89	382749	5.00	4.66	
56 Carbon tetrachloride	117	6.994	6.988	0.006	95	297696	5.00	4.80	
57 1,1-Dichloropropene	75	7.000	7.000	0.000	98	304399	5.00	4.53	
58 Isobutyl alcohol	41	7.165	7.165	0.000	95	115120	125.0	104.5	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.232	7.232	0.000	0	103764	10.0	10.3	
60 Benzene	78	7.263	7.263	0.000	97	901144	5.00	4.55	
61 1,2-Dichloroethane	62	7.336	7.336	0.000	97	241140	5.00	4.35	
63 Tert-amyl methyl ether	73	7.452	7.452	0.000	99	642352	5.00	4.53	
* 64 Fluorobenzene (IS)	96	7.665	7.665	0.000	99	1948700	10.0	10.0	
65 n-Heptane	43	7.671	7.671	0.000	90	344274	5.00	4.48	
67 n-Butanol	56	8.049	8.043	0.006	87	216625	250.0	214.1	
68 Trichloroethene	95	8.140	8.140	0.000	98	235674	5.00	4.66	
69 Methylcyclohexane	83	8.445	8.445	0.000	92	415940	5.00	5.30	
70 1,2-Dichloropropane	63	8.482	8.482	0.000	88	244198	5.00	4.61	
71 2-ethoxy-2-methyl butane	87	8.488	8.488	0.000	92	367207	5.00	4.74	
72 Methyl methacrylate	69	8.567	8.567	0.000	91	126264	5.00	4.74	
73 1,4-Dioxane	88	8.579	8.567	0.012	30	26120	125.0	145.1	M
74 Dibromomethane	93	8.585	8.586	-0.001	94	117286	5.00	4.78	
76 Dichlorobromomethane	83	8.829	8.823	0.006	99	284940	5.00	4.64	
77 2-Nitropropane	41	9.110	9.110	0.000	96	35354	5.00	4.68	
79 2-Chloroethyl vinyl ether	63		9.195				ND	ND	
80 1-Bromo-2-chloroethane	63	9.219	9.213	0.006	98	240018	5.00	4.23	
81 cis-1,3-Dichloropropene	75	9.378	9.372	0.006	96	352852	5.00	4.42	
82 4-Methyl-2-pentanone (MIBK)	43	9.561	9.555	0.006	96	851943	25.0	23.3	
$ 83 Toluene-d8 (Surr)	98	9.683	9.683	0.000	93	1904124	10.0	10.1	
84 Toluene	92	9.762	9.762	0.000	98	572963	5.00	4.69	
96 trans-1,3-Dichloropropene	75	10.024	10.018	0.006	91	304653	5.00	4.61	
98 Ethyl methacrylate	69	10.085	10.079	0.006	89	264948	5.00	4.47	
99 1,1,2-Trichloroethane	97	10.225	10.225	0.000	90	170688	5.00	4.78	
100 Tetrachloroethene	166	10.311	10.311	0.000	97	263696	5.00	4.97	
101 1,3-Dichloropropane	76	10.390	10.390	0.000	89	299675	5.00	4.66	
102 2-Hexanone	43	10.445	10.445	0.000	97	610694	25.0	23.2	
104 Chlorodibromomethane	129	10.603	10.603	0.000	90	202769	5.00	4.79	
105 Ethylene Dibromide	107	10.713	10.707	0.006	98	166288	5.00	4.75	
* 106 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	86	1411163	10.0	10.0	
107 1-Chlorohexane	91	11.152	11.152	0.000	97	327910	5.00	4.46	
108 Chlorobenzene	112	11.170	11.170	0.000	95	661382	5.00	4.86	
110 1,1,1,2-Tetrachloroethane	131	11.256	11.250	0.006	96	231821	5.00	4.79	
111 Ethylbenzene	91	11.256	11.256	0.000	98	1126330	5.00	4.66	
112 m-Xylene & p-Xylene	106	11.371	11.372	-0.001	97	880328	10.0	9.67	
113 o-Xylene	106	11.701	11.701	0.000	96	436488	5.00	4.83	
114 Styrene	104	11.719	11.713	0.006	95	733471	5.00	4.77	

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	97	120178	5.00	4.87	
116 Isopropylbenzene	105	11.999	11.999	0.000	95	1116892	5.00	4.73	
$ 119 4-Bromofluorobenzene (Surr)	95	12.140	12.140	0.000	92	700299	10.0	9.74	
120 1,1,2,2-Tetrachloroethane	83	12.249	12.249	0.000	93	226941	5.00	4.67	
121 Bromobenzene	156	12.262	12.256	0.006	95	289156	5.00	4.95	
122 trans-1,4-Dichloro-2-butene	53	12.274	12.274	0.000	92	161563	25.0	14.2	
123 1,2,3-Trichloropropane	110	12.292	12.292	0.000	83	57873	5.00	4.67	
124 N-Propylbenzene	91	12.329	12.329	0.000	99	1347873	5.00	4.63	
125 2-Chlorotoluene	126	12.402	12.402	0.000	97	277191	5.00	4.84	
126 1,3,5-Trimethylbenzene	105	12.463	12.463	0.000	95	977644	5.00	4.76	
127 4-Chlorotoluene	126	12.493	12.493	0.000	97	291429	5.00	4.88	
128 tert-Butylbenzene	134	12.707	12.707	0.000	93	211568	5.00	4.83	
129 Pentachloroethane	167	12.737	12.737	0.000	92	174686	5.00	4.64	
130 1,2,4-Trimethylbenzene	105	12.743	12.743	0.000	97	1018420	5.00	4.75	
131 sec-Butylbenzene	105	12.865	12.865	0.000	94	1282670	5.00	4.80	
132 1,3-Dichlorobenzene	146	12.963	12.963	0.000	98	580492	5.00	4.93	
133 4-Isopropyltoluene	119	12.975	12.975	0.000	97	1124968	5.00	4.85	
* 134 1,4-Dichlorobenzene-d4	152	13.018	13.018	0.000	94	773424	10.0	10.0	
135 1,4-Dichlorobenzene	146	13.036	13.036	0.000	95	582822	5.00	4.86	
136 1,2,3-Trimethylbenzene	120	13.048	13.048	0.000	99	460478	5.00	4.84	
137 Benzyl chloride	126	13.115	13.115	0.000	98	92312	5.00	4.39	
138 p-Diethylbenzene	119	13.170	13.170	0.000	92	667074	5.00	4.73	
139 n-Butylbenzene	92	13.261	13.261	0.000	97	566544	5.00	4.61	
140 1,2-Dichlorobenzene	146	13.298	13.298	0.000	99	542877	5.00	4.94	
142 1,2-Dibromo-3-Chloropropane	155	13.834	13.835	0.000	87	32707	5.00	4.62	
143 1,3,5-Trichlorobenzene	180	13.956	13.956	0.000	97	484432	5.00	4.91	
144 1,2,4-Trichlorobenzene	180	14.377	14.377	0.000	94	445847	5.00	4.90	
145 Hexachlorobutadiene	225	14.462	14.462	0.000	95	227099	5.00	5.09	
146 Naphthalene	128	14.560	14.560	0.000	97	796421	5.00	4.81	
147 1,2,3-Trichlorobenzene	180	14.700	14.700	0.000	96	399291	5.00	4.98	
148 2-Methylnaphthalene	142	15.316	15.316	0.000	92	518153	5.00	4.38	
160 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_Q_QVOA1_00070	Amount Added:	12.50	Units: uL	
MSV_Q_QARC_00070	Amount Added:	12.50	Units: uL	
MSV_Q_QVOA6_00068	Amount Added:	12.50	Units: uL	
MSV_Q_EE_00003	Amount Added:	12.50	Units: uL	
MSV_Q_ETBR_00006	Amount Added:	12.50	Units: uL	
MSV_QGAS_826_00112	Amount Added:	12.50	Units: uL	
MSV_29_826ISS_00015	Amount Added:	1.00	Units: uL	Run Reagent

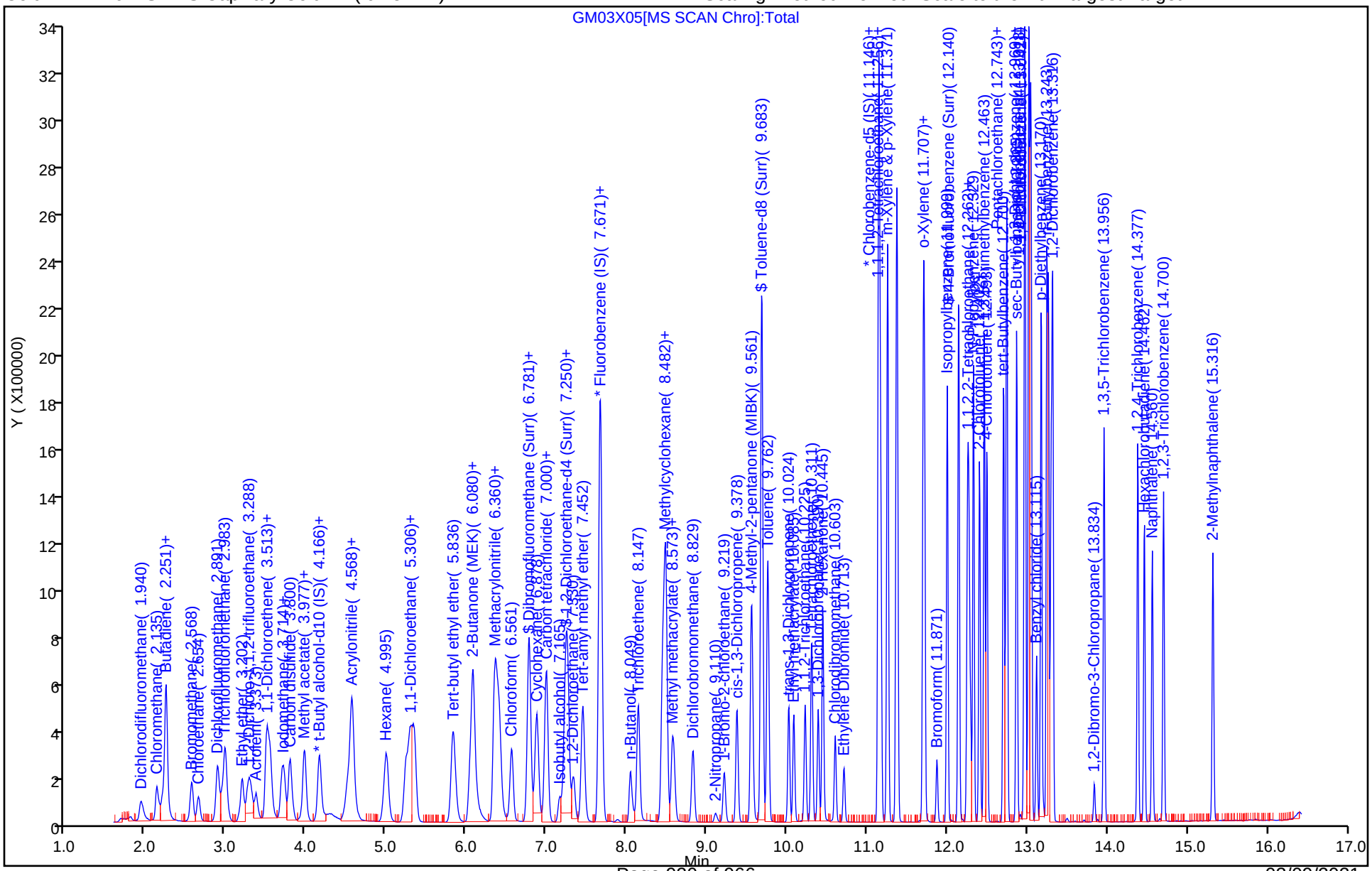
Report Date: 03-Mar-2021 14:03:04 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X05.D

Injection Date:	03-Mar-2021 10:01:30	Instrument ID:	16334	Operator ID:	SRK36897
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X05.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 03-Mar-2021 10:01:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023166-005
Misc. Info.: LCS
Operator ID: SRK36897 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2021 14:02:58 Calib Date: 30-Nov-2020 18:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1663

First Level Reviewer: knouses Date: 03-Mar-2021 10:49:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.1	101.35
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.40
$ 83 Toluene-d8 (Surr)	10.0	10.1	101.14
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.74	97.42

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-99333/5

Matrix: Water Lab File ID: IM03L31.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 20:11

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.: 99333 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.79		0.50	0.070
71-55-6	1,1,1-Trichloroethane	4.90		0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	4.77		0.50	0.070
79-00-5	1,1,2-Trichloroethane	4.81		0.50	0.060
75-34-3	1,1-Dichloroethane	4.81		0.50	0.070
75-35-4	1,1-Dichloroethene	4.84		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	4.75		0.50	0.060
107-06-2	1,2-Dichloroethane	4.88		0.50	0.050
78-87-5	1,2-Dichloropropane	5.00		0.50	0.060
78-93-3	2-Butanone (MEK)	44.4		5.0	0.60
591-78-6	2-Hexanone	30.7		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	30.5		5.0	0.70
67-64-1	Acetone	36.9		5.0	0.90
71-43-2	Benzene	4.80		0.50	0.050
74-97-5	Bromochloromethane	4.73		0.50	0.050
75-27-4	Bromodichloromethane	4.96		0.50	0.050
75-25-2	Bromoform	4.75		1.0	0.30
74-83-9	Bromomethane	4.96		0.50	0.070
75-15-0	Carbon disulfide	4.71		1.0	0.060
56-23-5	Carbon tetrachloride	4.95		0.50	0.070
108-90-7	Chlorobenzene	4.71		0.50	0.060
75-00-3	Chloroethane	4.86		0.50	0.070
67-66-3	Chloroform	4.87		0.50	0.090
74-87-3	Chloromethane	4.84		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	4.77		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	4.97		0.50	0.050
124-48-1	Dibromochloromethane	4.74		0.50	0.070
100-41-4	Ethylbenzene	4.64		0.50	0.060
1634-04-4	Methyl tert-butyl ether	4.71		0.50	0.050
75-09-2	Methylene Chloride	4.76		0.50	0.070
100-42-5	Styrene	4.73		0.50	0.050
127-18-4	Tetrachloroethene	4.60		0.50	0.060
108-88-3	Toluene	4.58		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	4.76		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	5.13		0.50	0.060
79-01-6	Trichloroethene	4.76		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 410-99333/5

Matrix: Water Lab File ID: IM03L31.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 20:11

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.: 99333 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	5.05		0.50	0.10
1330-20-7	Xylenes, Total	13.9		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)	100		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\19930\20210303-23228.b\IM03L31.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 03-Mar-2021 20:11:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-005
Misc. Info.: LCS
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2021 21:09:22 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1646

First Level Reviewer: campbellme Date: 03-Mar-2021 20:39:22

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	366070	5.00	4.57	
4 Chloromethane	50	2.178	2.184	-0.006	99	449718	5.00	4.84	
6 Butadiene	39	2.288	2.294	-0.006	90	442772	5.00	5.57	
5 Vinyl chloride	62	2.294	2.306	-0.012	70	431982	5.00	5.05	
7 Bromomethane	94	2.623	2.629	-0.006	91	307881	5.00	4.96	
8 Chloroethane	64	2.709	2.709	0.000	100	255893	5.00	4.86	
9 Dichlorofluoromethane	67	2.946	2.952	-0.006	97	468915	5.00	3.98	
10 Trichlorofluoromethane	101	3.019	3.019	0.000	97	554195	5.00	5.00	
11 Ethyl ether	59	3.263	3.263	0.000	91	264887	5.00	5.34	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.349	3.343	0.006	93	387759	5.00	4.99	
13 Acrolein	56	3.434	3.434	0.000	99	189864	37.5	26.9	
14 1,1-Dichloroethene	96	3.574	3.574	0.000	98	289487	5.00	4.84	
15 Acetone	43	3.605	3.605	0.000	100	324795	37.5	36.9	
16 112TCTFE	101	3.623	3.623	0.000	90	303256	5.00	4.79	
17 Iodomethane	142	3.775	3.775	0.000	98	542294	5.00	4.63	
18 Ethyl bromide	108	3.806	3.806	0.000	98	236643	5.03	4.35	
19 Carbon disulfide	76	3.879	3.885	-0.006	98	817090	5.00	4.71	
21 Methyl acetate	43	4.031	4.025	0.006	97	130612	5.00	5.45	
22 3-Chloro-1-propene	41	4.056	4.062	-0.006	93	466891	5.00	5.13	
23 Methylene Chloride	84	4.245	4.251	-0.006	92	316019	5.00	4.76	
* 24 t-Butyl alcohol-d10 (IS)	65	4.257	4.275	-0.018	0	161249	50.0	50.0	
25 2-Methyl-2-propanol	59	4.385	4.397	-0.012	99	172785	50.0	50.3	
26 Acrylonitrile	53	4.580	4.586	-0.006	99	327258	25.0	28.5	
27 Methyl tert-butyl ether	73	4.659	4.659	0.000	89	755211	5.00	4.71	
28 trans-1,2-Dichloroethene	96	4.665	4.672	-0.007	99	314912	5.00	4.76	
29 Hexane	57	5.092	5.098	-0.006	91	465265	5.00	5.14	
31 1,1-Dichloroethane	63	5.330	5.330	0.000	96	574537	5.00	4.81	
32 Isopropyl ether	45	5.391	5.385	0.006	95	982965	5.00	4.98	
33 2-Chloro-1,3-butadiene	53	5.434	5.440	-0.006	90	476845	5.00	4.97	
34 Tert-butyl ethyl ether	59	5.915	5.921	-0.006	97	912437	5.00	4.89	
36 2-Butanone (MEK)	43	6.129	6.122	0.007	99	653409	37.5	44.4	

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	6.159	6.159	0.000	81	366539	5.00	4.77	
38 2,2-Dichloropropane	77	6.171	6.177	-0.006	86	482377	5.00	5.02	
40 Propionitrile	54	6.214	6.214	0.000	98	165710	37.5	38.5	
42 Methacrylonitrile	67	6.427	6.433	-0.006	91	648077	37.5	42.8	
43 Chlorobromomethane	128	6.488	6.488	0.000	92	160045	5.00	4.73	
44 Tetrahydrofuran	71	6.494	6.494	0.000	84	127832	25.0	28.7	
45 Chloroform	83	6.635	6.641	-0.006	93	573687	5.00	4.87	
$ 46 Dibromofluoromethane (Surr)	113	6.854	6.854	0.000	94	553917	10.0	9.99	
47 1,1,1-Trichloroethane	97	6.860	6.866	-0.006	98	518557	5.00	4.90	
48 Cyclohexane	56	6.964	6.964	0.000	89	564988	5.00	5.15	
51 1,1-Dichloropropene	75	7.074	7.074	0.000	96	449007	5.00	4.78	
50 Carbon tetrachloride	117	7.074	7.080	-0.006	97	468978	5.00	4.95	
52 Isobutyl alcohol	41	7.226	7.226	0.000	94	143262	125.0	129.6	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.305	7.305	0.000	0	114273	10.0	10.2	
54 Benzene	78	7.336	7.336	0.000	96	1365171	5.00	4.80	
56 1,2-Dichloroethane	62	7.409	7.409	0.000	97	339331	5.00	4.88	
57 Tert-amyl methyl ether	73	7.525	7.525	0.000	99	844590	5.00	4.94	
* 58 Fluorobenzene (IS)	96	7.738	7.738	0.000	99	2245786	10.0	10.0	
59 n-Heptane	43	7.750	7.750	0.000	92	491331	5.00	5.41	
60 n-Butanol	56	8.098	8.092	0.006	88	196401	250.0	187.9	
61 Trichloroethene	95	8.220	8.214	0.006	97	354217	5.00	4.76	
62 Methylcyclohexane	83	8.524	8.524	0.000	92	612269	5.00	5.06	
63 1,2-Dichloropropane	63	8.549	8.549	0.000	88	349801	5.00	5.00	
64 Methyl methacrylate	69	8.628	8.628	0.000	91	166397	5.00	5.90	
65 1,4-Dioxane	88	8.634	8.628	0.006	30	22895	125.0	83.9	M
66 Dibromomethane	93	8.659	8.659	0.000	94	162709	5.00	4.92	
68 Dichlorobromomethane	83	8.890	8.890	0.000	99	415940	5.00	4.96	
69 2-Nitropropane	41	9.158	9.158	0.000	98	46648	5.00	6.58	
71 2-Chloroethyl vinyl ether	63		9.250				ND	ND	
72 1-Bromo-2-chloroethane	63	9.287	9.280	0.006	98	331473	5.00	4.61	
73 cis-1,3-Dichloropropene	75	9.433	9.433	0.000	97	499259	5.00	4.97	
74 4-Methyl-2-pentanone (MIBK)	43	9.604	9.597	0.007	96	1115632	25.0	30.5	
$ 75 Toluene-d8 (Surr)	98	9.744	9.738	0.006	93	2241857	10.0	9.79	
76 Toluene	92	9.817	9.817	0.000	98	875021	5.00	4.58	
78 trans-1,3-Dichloropropene	75	10.073	10.067	0.006	91	423437	5.00	5.13	
79 Ethyl methacrylate	69	10.128	10.128	0.000	89	344383	5.00	4.99	
80 1,1,2-Trichloroethane	97	10.274	10.274	0.000	90	245669	5.00	4.81	
81 Tetrachloroethene	166	10.366	10.366	0.000	97	425636	5.00	4.60	
82 1,3-Dichloropropane	76	10.433	10.433	0.000	89	412396	5.00	4.73	
83 2-Hexanone	43	10.481	10.481	0.000	96	769087	25.0	30.7	
85 Chlorodibromomethane	129	10.652	10.652	0.000	90	304147	5.00	4.74	
86 Ethylene Dibromide	107	10.762	10.762	0.000	99	232110	5.00	4.75	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	0.000	85	1753429	10.0	10.0	
88 1-Chlorohexane	91	11.195	11.195	0.000	96	496011	5.00	4.47	
90 Chlorobenzene	112	11.213	11.213	0.000	96	994560	5.00	4.71	
91 1,1,1,2-Tetrachloroethane	131	11.298	11.298	0.000	96	351290	5.00	4.79	
92 Ethylbenzene	91	11.298	11.298	0.000	98	1711544	5.00	4.64	
93 m-Xylene & p-Xylene	106	11.414	11.414	0.000	100	1350850	10.0	9.27	
94 o-Xylene	106	11.743	11.743	0.000	96	657829	5.00	4.64	
95 Styrene	104	11.756	11.756	0.000	94	1073512	5.00	4.73	
96 Bromoform	173	11.914	11.914	0.000	98	183921	5.00	4.75	
97 Isopropylbenzene	105	12.042	12.042	0.000	95	1708979	5.00	4.54	

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	94	838376	10.0	9.89	
101 1,1,2,2-Tetrachloroethane	83	12.286	12.286	0.000	94	308144	5.00	4.77	
102 Bromobenzene	156	12.304	12.304	0.000	94	419547	5.00	4.71	
103 trans-1,4-Dichloro-2-butene	53	12.310	12.310	0.000	90	283859	25.0	23.7	
104 1,2,3-Trichloropropane	110	12.329	12.329	0.000	82	81917	5.00	4.62	
105 N-Propylbenzene	91	12.371	12.371	0.000	99	2046298	5.00	4.69	
106 2-Chlorotoluene	126	12.444	12.444	0.000	97	418719	5.00	4.69	
107 1,3,5-Trimethylbenzene	105	12.505	12.505	0.000	94	1462908	5.00	4.69	
108 4-Chlorotoluene	126	12.536	12.536	0.000	97	425921	5.00	4.73	
109 tert-Butylbenzene	134	12.749	12.743	0.006	93	326738	5.00	4.63	
110 Pentachloroethane	167	12.780	12.780	0.000	94	273987	5.00	4.90	
111 1,2,4-Trimethylbenzene	105	12.786	12.786	0.000	97	1485421	5.00	4.68	
112 sec-Butylbenzene	105	12.908	12.908	0.000	94	1911391	5.00	4.67	
113 1,3-Dichlorobenzene	146	13.011	13.011	0.000	98	827420	5.00	4.61	
114 4-Isopropyltoluene	119	13.017	13.017	0.000	97	1668508	5.00	4.78	
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	93	988861	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.085	13.085	0.000	96	835450	5.00	4.66	
117 1,2,3-Trimethylbenzene	120	13.091	13.091	0.000	98	686309	5.00	4.87	
118 Benzyl chloride	126	13.158	13.158	0.000	98	127014	5.00	5.20	
119 n-Butylbenzene	92	13.310	13.310	0.000	97	794660	5.00	4.66	
120 1,2-Dichlorobenzene	146	13.341	13.341	0.000	99	763006	5.00	4.67	
122 1,2-Dibromo-3-Chloropropane	155	13.883	13.883	0.000	90	44634	5.00	4.50	
123 1,3,5-Trichlorobenzene	180	14.011	14.011	0.000	98	599811	5.00	4.64	
124 1,2,4-Trichlorobenzene	180	14.432	14.432	0.000	94	468174	5.00	4.36	
125 Hexachlorobutadiene	225	14.517	14.517	0.000	96	212405	5.00	4.55	
126 Naphthalene	128	14.615	14.615	0.000	97	800473	5.00	3.99	
127 1,2,3-Trichlorobenzene	180	14.755	14.755	0.000	96	376326	5.00	4.06	
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_Q_QVOA1_00070	Amount Added:	12.50	Units: uL	
MSV_Q_QARC_00070	Amount Added:	12.50	Units: uL	
MSV_Q_QVOA6_00068	Amount Added:	12.50	Units: uL	
MSV_Q_EE_00003	Amount Added:	12.50	Units: uL	
MSV_Q_ETBR_00006	Amount Added:	12.50	Units: uL	
MSV_QGAS_826_00112	Amount Added:	12.50	Units: uL	
MSV_31_826ISS_00004	Amount Added:	5.00	Units: uL	Run Reagent

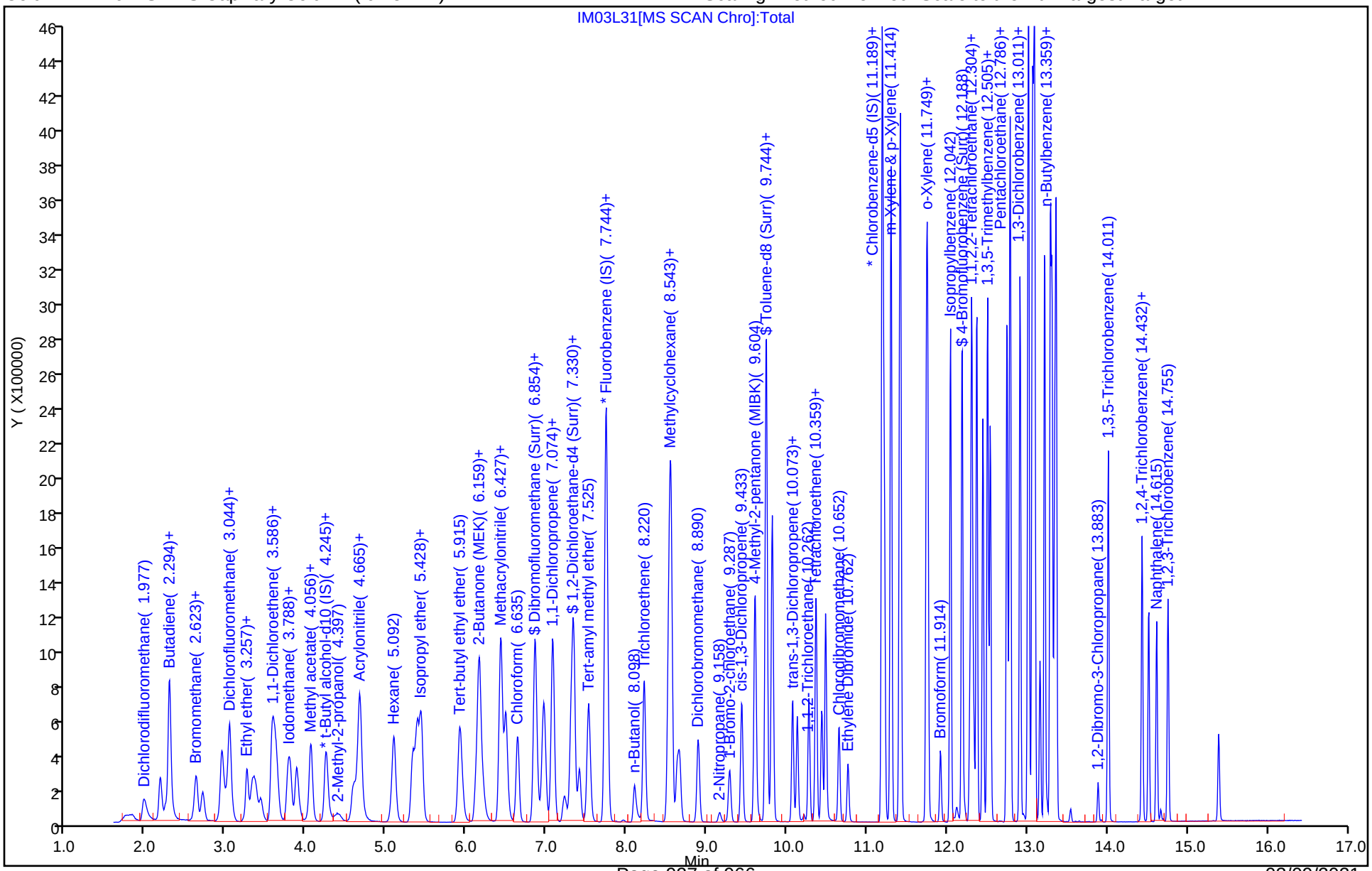
Report Date: 03-Mar-2021 21:09:25 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03L31.D

Injection Date:	03-Mar-2021 20:11:30	Instrument ID:	19930	Operator ID:	MEC29284
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: 2



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03L31.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 03-Mar-2021 20:11:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-005
Misc. Info.: LCS
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2021 21:09:22 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1646

First Level Reviewer: campbellme Date: 03-Mar-2021 20:39:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	9.99	99.89
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.21
$ 75 Toluene-d8 (Surr)	10.0	9.79	97.90
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.89	98.86

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-99025/6

Matrix: Water Lab File ID: GM03X06.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 10:23

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.: 99025 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.76		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	4.67		0.50	0.070
79-00-5	1,1,2-Trichloroethane	4.88		0.50	0.060
75-34-3	1,1-Dichloroethane	4.45		0.50	0.070
75-35-4	1,1-Dichloroethene	4.69		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	4.65		0.50	0.060
107-06-2	1,2-Dichloroethane	4.33		0.50	0.050
78-87-5	1,2-Dichloropropane	4.58		0.50	0.060
78-93-3	2-Butanone (MEK)	36.7		5.0	0.60
591-78-6	2-Hexanone	24.5		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	24.3		5.0	0.70
67-64-1	Acetone	34.8		5.0	0.90
71-43-2	Benzene	4.53		0.50	0.050
74-97-5	Bromochloromethane	4.76		0.50	0.050
75-27-4	Bromodichloromethane	4.60		0.50	0.050
75-25-2	Bromoform	4.76		1.0	0.30
74-83-9	Bromomethane	4.36		0.50	0.070
75-15-0	Carbon disulfide	4.47		1.0	0.060
56-23-5	Carbon tetrachloride	4.72		0.50	0.070
108-90-7	Chlorobenzene	4.83		0.50	0.060
75-00-3	Chloroethane	4.26		0.50	0.070
67-66-3	Chloroform	4.60		0.50	0.090
74-87-3	Chloromethane	4.01		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	4.73		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	4.33		0.50	0.050
124-48-1	Dibromochloromethane	4.64		0.50	0.070
100-41-4	Ethylbenzene	4.62		0.50	0.060
1634-04-4	Methyl tert-butyl ether	4.31		0.50	0.050
75-09-2	Methylene Chloride	4.72		0.50	0.070
100-42-5	Styrene	4.76		0.50	0.050
127-18-4	Tetrachloroethene	4.98		0.50	0.060
108-88-3	Toluene	4.62		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	4.64		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	4.46		0.50	0.060
79-01-6	Trichloroethene	4.72		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 410-99025/6

Matrix: Water Lab File ID: GM03X06.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 03/03/2021 10:23

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.: 99025 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	4.22		0.50	0.10
1330-20-7	Xylenes, Total	14.4		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)	97		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\16334\20210303-23166.b\GM03X06.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 03-Mar-2021 10:23:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023166-006
Misc. Info.: LCSD
Operator ID: SRK36897 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2021 14:02:58 Calib Date: 30-Nov-2020 18:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1663

First Level Reviewer: knouses Date: 03-Mar-2021 10:50:55

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	221198	5.00	4.37	
5 Chloromethane	50	2.135	2.136	-0.001	99	273962	5.00	4.01	
7 Butadiene	39	2.245	2.245	0.000	91	378167	5.00	4.86	
8 Vinyl chloride	62	2.251	2.251	0.000	76	246254	5.00	4.22	
9 Bromomethane	94	2.568	2.568	0.000	91	177221	5.00	4.36	
10 Chloroethane	64	2.648	2.660	-0.012	100	150566	5.00	4.26	
12 Dichlorofluoromethane	67	2.891	2.892	-0.001	97	274151	5.00	3.46	
13 Trichlorofluoromethane	101	2.952	2.952	0.000	95	320271	5.00	4.77	
15 Ethyl ether	59	3.196	3.202	-0.006	91	185309	5.00	4.68	
17 1,2-Dichloro-1,1,2-trifluoroetha	67	3.294	3.282	0.012	92	247723	5.00	4.52	
18 Acrolein	56	3.373	3.373	0.000	99	200124	37.5	35.4	
19 1,1-Dichloroethene	96	3.507	3.507	0.000	98	190168	5.00	4.69	
20 112TCTFE	101	3.544	3.544	0.000	91	194232	5.00	4.90	
21 Acetone	43	3.544	3.544	0.000	100	253809	37.5	34.8	
23 Iodomethane	142	3.696	3.696	0.000	99	343650	5.00	4.54	
22 Isopropyl alcohol	45	3.721	3.721	0.000	29	47259	37.5	30.6	
24 Ethyl bromide	108	3.727	3.727	0.000	98	154219	5.03	4.36	
25 Carbon disulfide	76	3.800	3.794	0.006	99	669087	5.00	4.47	
27 Methyl acetate	43	3.946	3.952	-0.006	98	94828	5.00	4.29	
28 3-Chloro-1-propene	41	3.977	3.977	0.000	96	327188	5.00	4.03	
29 Methylene Chloride	84	4.159	4.166	-0.007	95	219327	5.00	4.72	
* 30 t-Butyl alcohol-d10 (IS)	65	4.178	4.178	0.000	0	148787	50.0	50.0	
31 2-Methyl-2-propanol	59	4.324	4.306	0.018	100	140197	50.0	52.4	
32 Acrylonitrile	53	4.513	4.507	0.006	99	248607	25.0	26.3	
33 Methyl tert-butyl ether	73	4.568	4.568	0.000	94	556207	5.00	4.31	
34 trans-1,2-Dichloroethene	96	4.574	4.568	0.006	99	216888	5.00	4.64	
35 Hexane	57	5.001	4.995	0.006	92	318408	5.00	4.68	
37 1,1-Dichloroethane	63	5.239	5.239	0.000	96	385320	5.00	4.45	
38 Isopropyl ether	45	5.300	5.300	0.000	95	724340	5.00	4.11	
39 2-Chloro-1,3-butadiene	53	5.348	5.342	0.006	90	330269	5.00	4.19	
40 Tert-butyl ethyl ether	59	5.836	5.830	0.006	97	688567	5.00	4.28	

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	6.043	6.049	-0.006	100	496313	37.5	36.7	
42 cis-1,2-Dichloroethene	96	6.080	6.080	0.000	82	248032	5.00	4.73	
43 2,2-Dichloropropane	77	6.092	6.086	0.006	86	314044	5.00	4.32	
45 Propionitrile	54	6.147	6.147	0.000	98	131925	37.5	39.3	
48 Methacrylonitrile	67	6.354	6.360	-0.006	92	477562	37.5	38.4	
49 Chlorobromomethane	128	6.409	6.403	0.006	94	111342	5.00	4.76	
50 Tetrahydrofuran	71	6.415	6.409	0.006	75	92476	25.0	26.4	
51 Chloroform	83	6.561	6.562	-0.001	92	384179	5.00	4.60	
$ 52 Dibromofluoromethane (Surr)	113	6.775	6.775	0.000	94	478602	10.0	10.2	
53 1,1,1-Trichloroethane	97	6.787	6.787	0.000	97	334932	5.00	4.69	
54 Cyclohexane	56	6.878	6.872	0.006	89	379525	5.00	4.62	
56 Carbon tetrachloride	117	6.988	6.988	0.000	96	292234	5.00	4.72	
57 1,1-Dichloropropene	75	7.000	7.000	0.000	99	307661	5.00	4.58	
58 Isobutyl alcohol	41	7.165	7.165	0.000	96	108209	125.0	98.3	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	7.232	7.232	0.000	0	99821	10.0	9.95	
60 Benzene	78	7.263	7.263	0.000	97	897137	5.00	4.53	
61 1,2-Dichloroethane	62	7.336	7.336	0.000	97	239689	5.00	4.33	
63 Tert-amyl methyl ether	73	7.452	7.452	0.000	99	636662	5.00	4.49	
* 64 Fluorobenzene (IS)	96	7.671	7.665	0.006	99	1947371	10.0	10.0	
65 n-Heptane	43	7.671	7.671	0.000	89	341681	5.00	4.45	
67 n-Butanol	56	8.049	8.043	0.006	88	223066	250.0	232.0	
68 Trichloroethene	95	8.147	8.140	0.006	98	238728	5.00	4.72	
69 Methylcyclohexane	83	8.445	8.445	0.000	89	413634	5.00	5.27	
70 1,2-Dichloropropane	63	8.476	8.482	-0.006	97	242620	5.00	4.58	
71 2-ethoxy-2-methyl butane	87	8.488	8.488	0.000	95	366840	5.00	4.74	
72 Methyl methacrylate	69	8.567	8.567	0.000	90	121386	5.00	4.79	
73 1,4-Dioxane	88	8.567	8.567	0.000	30	24771	125.0	144.8	M
74 Dibromomethane	93	8.585	8.586	-0.001	95	116562	5.00	4.75	
76 Dichlorobromomethane	83	8.823	8.823	0.000	100	282290	5.00	4.60	
77 2-Nitropropane	41	9.110	9.110	0.000	97	30687	5.00	4.27	
79 2-Chloroethyl vinyl ether	63		9.195				ND	ND	
80 1-Bromo-2-chloroethane	63	9.213	9.213	0.000	98	237952	5.00	4.19	
81 cis-1,3-Dichloropropene	75	9.378	9.372	0.006	97	345348	5.00	4.33	
82 4-Methyl-2-pentanone (MIBK)	43	9.555	9.555	0.000	96	843609	25.0	24.3	
$ 83 Toluene-d8 (Surr)	98	9.683	9.683	0.000	93	1904590	10.0	10.1	
84 Toluene	92	9.762	9.762	0.000	98	566271	5.00	4.62	
96 trans-1,3-Dichloropropene	75	10.018	10.018	0.000	92	295160	5.00	4.46	
98 Ethyl methacrylate	69	10.085	10.079	0.006	89	258873	5.00	4.35	
99 1,1,2-Trichloroethane	97	10.225	10.225	0.000	90	174457	5.00	4.88	
100 Tetrachloroethene	166	10.311	10.311	0.000	97	264608	5.00	4.98	
101 1,3-Dichloropropane	76	10.390	10.390	0.000	89	297317	5.00	4.61	
102 2-Hexanone	43	10.445	10.445	0.000	97	611185	25.0	24.5	
104 Chlorodibromomethane	129	10.603	10.603	0.000	90	196561	5.00	4.64	
105 Ethylene Dibromide	107	10.713	10.707	0.006	100	163012	5.00	4.65	
* 106 Chlorobenzene-d5 (IS)	117	11.146	11.146	0.000	86	1413917	10.0	10.0	
107 1-Chlorohexane	91	11.152	11.152	0.000	97	326369	5.00	4.44	
108 Chlorobenzene	112	11.170	11.170	0.000	95	659304	5.00	4.83	
110 1,1,1,2-Tetrachloroethane	131	11.256	11.250	0.006	97	230854	5.00	4.76	
111 Ethylbenzene	91	11.256	11.256	0.000	98	1117660	5.00	4.62	
112 m-Xylene & p-Xylene	106	11.371	11.372	-0.001	97	878142	10.0	9.62	
113 o-Xylene	106	11.701	11.701	0.000	96	429956	5.00	4.75	
114 Styrene	104	11.719	11.713	0.006	95	733237	5.00	4.76	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
115 Bromoform	173	11.871	11.871	0.000	98	117825	5.00	4.76	
116 Isopropylbenzene	105	11.999	11.999	0.000	96	1104843	5.00	4.67	
$ 119 4-Bromofluorobenzene (Surr)	95	12.140	12.140	0.000	91	700106	10.0	9.72	
120 1,1,2,2-Tetrachloroethane	83	12.249	12.249	0.000	93	227396	5.00	4.67	
121 Bromobenzene	156	12.262	12.256	0.006	93	286667	5.00	4.91	
122 trans-1,4-Dichloro-2-butene	53	12.274	12.274	0.000	86	148735	25.0	13.8	
123 1,2,3-Trichloropropane	110	12.292	12.292	0.000	83	58461	5.00	4.71	
124 N-Propylbenzene	91	12.329	12.329	0.000	99	1369939	5.00	4.70	
125 2-Chlorotoluene	126	12.402	12.402	0.000	97	273128	5.00	4.77	
126 1,3,5-Trimethylbenzene	105	12.463	12.463	0.000	95	974632	5.00	4.74	
127 4-Chlorotoluene	126	12.493	12.493	0.000	97	285071	5.00	4.77	
128 tert-Butylbenzene	134	12.707	12.707	0.000	93	209956	5.00	4.79	
129 Pentachloroethane	167	12.737	12.737	0.000	92	176098	5.00	4.67	
130 1,2,4-Trimethylbenzene	105	12.743	12.743	0.000	97	1006756	5.00	4.69	
131 sec-Butylbenzene	105	12.865	12.865	0.000	94	1271406	5.00	4.76	
132 1,3-Dichlorobenzene	146	12.963	12.963	0.000	98	578935	5.00	4.92	
133 4-Isopropyltoluene	119	12.975	12.975	0.000	97	1118924	5.00	4.82	
* 134 1,4-Dichlorobenzene-d4	152	13.018	13.018	0.000	96	773988	10.0	10.0	
135 1,4-Dichlorobenzene	146	13.036	13.036	0.000	95	591875	5.00	4.93	
136 1,2,3-Trimethylbenzene	120	13.048	13.048	0.000	99	463462	5.00	4.87	
137 Benzyl chloride	126	13.115	13.115	0.000	98	92907	5.00	4.42	
138 p-Diethylbenzene	119	13.170	13.170	0.000	92	665562	5.00	4.72	
139 n-Butylbenzene	92	13.261	13.261	0.000	98	570865	5.00	4.64	
140 1,2-Dichlorobenzene	146	13.298	13.298	0.000	99	542216	5.00	4.93	
142 1,2-Dibromo-3-Chloropropane	155	13.834	13.835	0.000	86	32507	5.00	4.59	
143 1,3,5-Trichlorobenzene	180	13.956	13.956	0.000	98	496060	5.00	5.03	
144 1,2,4-Trichlorobenzene	180	14.377	14.377	0.000	94	447952	5.00	4.92	
145 Hexachlorobutadiene	225	14.462	14.462	0.000	96	227437	5.00	5.09	
146 Naphthalene	128	14.560	14.560	0.000	97	799112	5.00	4.83	
147 1,2,3-Trichlorobenzene	180	14.700	14.700	0.000	96	404071	5.00	5.03	
148 2-Methylnaphthalene	142	15.316	15.316	0.000	94	529976	5.00	4.48	
160 Pentane	43		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_Q_QVOA1_00070	Amount Added:	12.50	Units: uL	
MSV_Q_QARC_00070	Amount Added:	12.50	Units: uL	
MSV_Q_QVOA6_00068	Amount Added:	12.50	Units: uL	
MSV_Q_EE_00003	Amount Added:	12.50	Units: uL	
MSV_Q_ETBR_00006	Amount Added:	12.50	Units: uL	
MSV_QGAS_826_00112	Amount Added:	12.50	Units: uL	
MSV_29_826ISS_00015	Amount Added:	1.00	Units: uL	Run Reagent

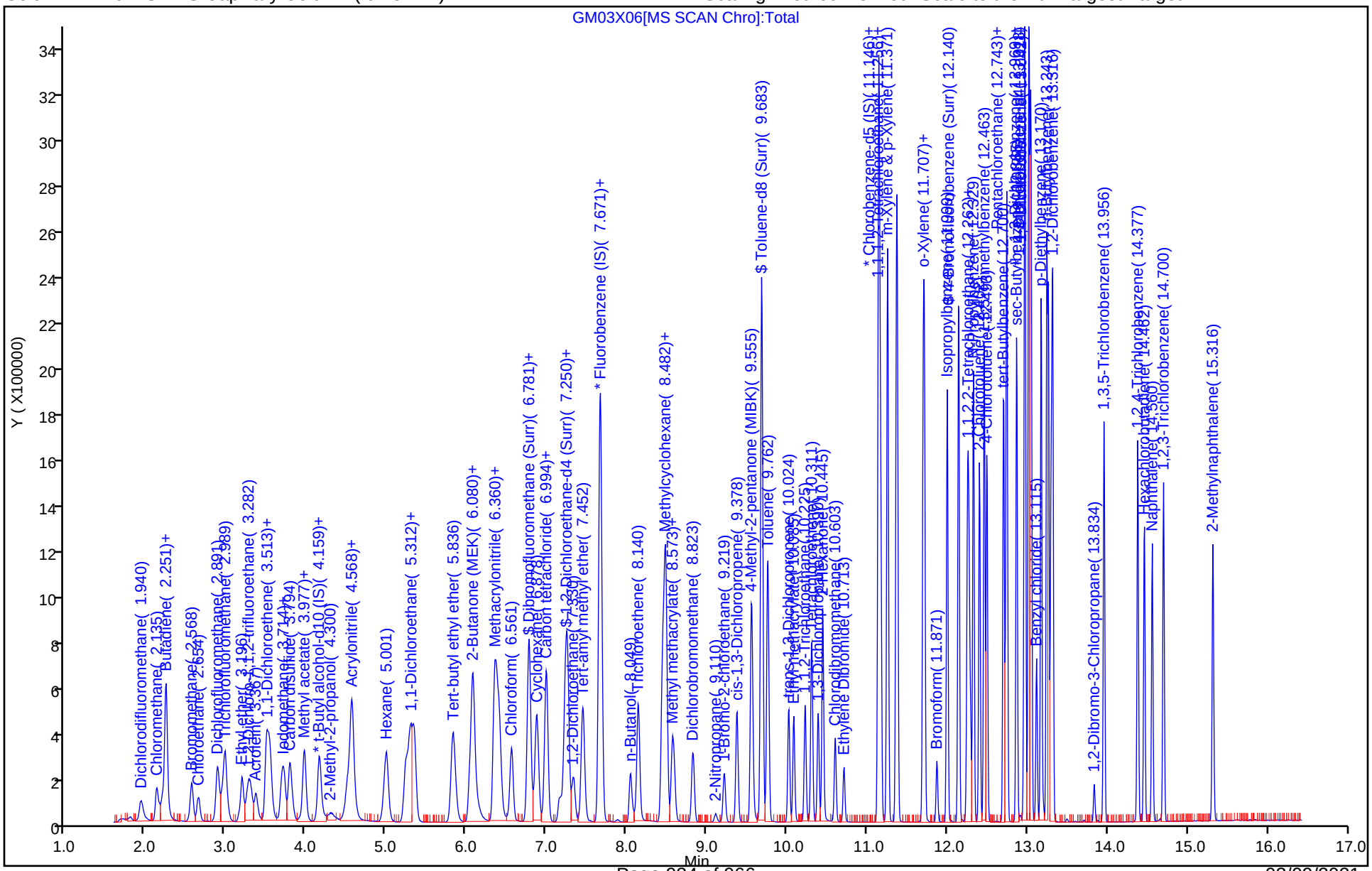
Report Date: 03-Mar-2021 14:03:15 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X06.D

Injection Date:	03-Mar-2021 10:23:30	Instrument ID:	16334	Operator ID:	SRK36897
Lims ID:	LCSD			Worklist Smp#:	6
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSV_16334_25mL	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\GM03X06.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 03-Mar-2021 10:23:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023166-006
Misc. Info.: LCSD
Operator ID: SRK36897 Instrument ID: 16334

Method: \\chromfs\Lancaster\ChromData\16334\20210303-23166.b\MSV_16334_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 03-Mar-2021 14:02:58 Calib Date: 30-Nov-2020 18:23:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\16334\20201130-16641.b\GN30I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1663

First Level Reviewer: knouses Date: 03-Mar-2021 10:50:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	10.0	10.2	101.55
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.95	99.54
$ 83 Toluene-d8 (Surr)	10.0	10.1	100.96
$ 119 4-Bromofluorobenzene (Surr)	10.0	9.72	97.20

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MS Lab Sample ID: 410-30627-6 MS

Matrix: Water Lab File ID: IM03S38.D

Analysis Method: 8260D Date Collected: 02/25/2021 12:10

Sample wt/vol: 25(mL) Date Analyzed: 03/04/2021 00:05

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.: 99333 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	4.93		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.21		0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	4.82		0.50	0.070
79-00-5	1,1,2-Trichloroethane	4.92		0.50	0.060
75-34-3	1,1-Dichloroethane	4.91		0.50	0.070
75-35-4	1,1-Dichloroethene	5.16		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	4.72		0.50	0.060
107-06-2	1,2-Dichloroethane	4.85		0.50	0.050
78-87-5	1,2-Dichloropropane	5.00		0.50	0.060
78-93-3	2-Butanone (MEK)	34.9		5.0	0.60
591-78-6	2-Hexanone	24.4		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	23.2		5.0	0.70
67-64-1	Acetone	31.4		5.0	0.90
71-43-2	Benzene	4.86		0.50	0.050
74-97-5	Bromochloromethane	4.65		0.50	0.050
75-27-4	Bromodichloromethane	4.97		0.50	0.050
75-25-2	Bromoform	4.80		1.0	0.30
74-83-9	Bromomethane	4.92		0.50	0.070
75-15-0	Carbon disulfide	4.75		1.0	0.060
56-23-5	Carbon tetrachloride	5.19		0.50	0.070
108-90-7	Chlorobenzene	4.88		0.50	0.060
75-00-3	Chloroethane	4.96		0.50	0.070
67-66-3	Chloroform	5.13		0.50	0.090
74-87-3	Chloromethane	4.96		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	5.21		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	4.90		0.50	0.050
124-48-1	Dibromochloromethane	4.89		0.50	0.070
100-41-4	Ethylbenzene	4.88		0.50	0.060
1634-04-4	Methyl tert-butyl ether	4.59		0.50	0.050
75-09-2	Methylene Chloride	4.78		0.50	0.070
100-42-5	Styrene	4.92		0.50	0.050
127-18-4	Tetrachloroethene	6.46		0.50	0.060
108-88-3	Toluene	4.81		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	4.83		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	4.99		0.50	0.060
79-01-6	Trichloroethene	5.53		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MS Lab Sample ID: 410-30627-6 MS

Matrix: Water Lab File ID: IM03S38.D

Analysis Method: 8260D Date Collected: 02/25/2021 12:10

Sample wt/vol: 25(mL) Date Analyzed: 03/04/2021 00:05

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.: 99333 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	5.21		0.50	0.10
1330-20-7	Xylenes, Total	14.7		1.0	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		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)	99		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S38.D
Lims ID: 410-30627-A-6 MS
Client ID: HD-COD-SW-15-0/1-0
Sample Type: MS
Inject. Date: 04-Mar-2021 00:05:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-016
Misc. Info.: 410-30627-A-6 MS
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

First Level Reviewer: knouses Date: 04-Mar-2021 12:42:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.983	1.983	0.000	99	374172	5.00	4.86	
4 Chloromethane	50	2.178	2.184	-0.006	99	443029	5.00	4.96	
6 Butadiene	39	2.294	2.294	0.000	90	422372	5.00	5.54	
5 Vinyl chloride	62	2.300	2.306	-0.006	81	428089	5.00	5.21	
7 Bromomethane	94	2.629	2.629	0.000	90	292986	5.00	4.92	
8 Chloroethane	64	2.715	2.709	0.006	100	250679	5.00	4.96	
9 Dichlorofluoromethane	67	2.952	2.952	0.000	96	464518	5.00	4.10	
10 Trichlorofluoromethane	101	3.020	3.019	0.001	98	576188	5.00	5.41	
11 Ethyl ether	59	3.269	3.263	0.006	91	240595	5.01	5.05	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.343	3.343	0.000	92	399480	5.00	5.35	
13 Acrolein	56	3.440	3.434	0.006	99	161079	37.5	19.0	
14 1,1-Dichloroethene	96	3.580	3.574	0.006	98	296642	5.00	5.16	
15 Acetone	43	3.611	3.605	0.006	100	330990	37.5	31.4	
16 112TCTFE	101	3.623	3.623	0.000	89	311715	5.00	5.13	
17 Iodomethane	142	3.782	3.775	0.007	98	521437	5.00	4.64	
18 Ethyl bromide	108	3.812	3.806	0.006	98	241640	5.04	4.62	
19 Carbon disulfide	76	3.885	3.885	0.000	99	791026	5.00	4.75	
21 Methyl acetate	43	4.032	4.025	0.007	97	125397	5.00	4.36	
22 3-Chloro-1-propene	41	4.068	4.062	0.006	94	434850	5.00	4.98	
23 Methylene Chloride	84	4.251	4.251	0.000	95	304690	5.00	4.78	
* 24 t-Butyl alcohol-d10 (IS)	65	4.288	4.275	0.013	0	193518	50.0	50.0	
25 2-Methyl-2-propanol	59	4.410	4.397	0.013	99	197761	50.0	47.9	
26 Acrylonitrile	53	4.592	4.586	0.006	98	307795	25.0	22.4	
27 Methyl tert-butyl ether	73	4.659	4.659	0.000	94	706246	5.00	4.59	
28 trans-1,2-Dichloroethene	96	4.678	4.672	0.006	99	306729	5.00	4.83	
29 Hexane	57	5.098	5.098	0.000	93	463759	5.00	5.34	
31 1,1-Dichloroethane	63	5.330	5.330	0.000	96	563764	5.00	4.91	
32 Isopropyl ether	45	5.391	5.385	0.006	94	929188	5.00	4.90	
33 2-Chloro-1,3-butadiene	53	5.446	5.440	0.006	89	472131	5.00	5.12	
34 Tert-butyl ethyl ether	59	5.921	5.921	0.000	97	856544	5.00	4.78	
36 2-Butanone (MEK)	43	6.129	6.122	0.007	99	616121	37.5	34.9	

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	6.159	6.159	0.000	81	383935	5.00	5.21	
38 2,2-Dichloropropane	77	6.177	6.177	0.000	85	480890	5.00	5.21	
40 Propionitrile	54	6.226	6.214	0.012	98	176493	37.5	34.2	
42 Methacrylonitrile	67	6.433	6.433	0.000	90	611407	37.5	33.6	
43 Chlorobromomethane	128	6.488	6.488	0.000	92	150955	5.00	4.65	
44 Tetrahydrofuran	71	6.501	6.494	0.007	86	122015	25.0	22.8	
45 Chloroform	83	6.641	6.641	0.000	93	580574	5.00	5.13	
$ 46 Dibromofluoromethane (Surr)	113	6.854	6.854	0.000	94	535633	10.0	10.1	
47 1,1,1-Trichloroethane	97	6.872	6.866	0.006	98	528996	5.00	5.21	
48 Cyclohexane	56	6.970	6.964	0.006	89	579120	5.00	5.50	
51 1,1-Dichloropropene	75	7.080	7.074	0.006	97	457091	5.00	5.07	
50 Carbon tetrachloride	117	7.080	7.080	0.000	86	471755	5.00	5.19	
52 Isobutyl alcohol	41	7.232	7.226	0.006	94	155471	125.1	117.2	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.311	7.305	0.006	0	105624	10.0	9.84	
54 Benzene	78	7.342	7.336	0.006	97	1327877	5.00	4.86	
56 1,2-Dichloroethane	62	7.409	7.409	0.000	97	323334	5.00	4.85	
57 Tert-amyl methyl ether	73	7.531	7.525	0.006	99	799728	5.00	4.87	
* 58 Fluorobenzene (IS)	96	7.744	7.738	0.006	99	2156375	10.0	10.0	
59 n-Heptane	43	7.756	7.750	0.006	90	484334	5.00	5.55	
60 n-Butanol	56	8.104	8.092	0.012	87	248546	250.2	198.2	
61 Trichloroethene	95	8.220	8.214	0.006	97	395475	5.00	5.53	
62 Methylcyclohexane	83	8.525	8.524	0.001	94	626047	5.00	5.39	
63 1,2-Dichloropropane	63	8.549	8.549	0.000	81	336062	5.00	5.00	
64 Methyl methacrylate	69	8.628	8.628	0.000	89	157590	5.00	4.66	
65 1,4-Dioxane	88	8.640	8.628	0.012	34	28374	125.1	86.7	
66 Dibromomethane	93	8.659	8.659	0.000	94	157771	5.00	4.97	
68 Dichlorobromomethane	83	8.896	8.890	0.006	99	399607	5.00	4.97	
69 2-Nitropropane	41	9.165	9.158	0.007	98	38604	5.00	4.54	
71 2-Chloroethyl vinyl ether	63		9.250				ND	ND	
72 1-Bromo-2-chloroethane	63	9.287	9.280	0.007	98	300541	5.00	4.35	
73 cis-1,3-Dichloropropene	75	9.439	9.433	0.006	97	472945	5.00	4.90	
74 4-Methyl-2-pentanone (MIBK)	43	9.604	9.597	0.007	96	1019491	25.0	23.2	
$ 75 Toluene-d8 (Surr)	98	9.744	9.738	0.006	93	2144094	10.0	9.88	
76 Toluene	92	9.817	9.817	0.000	98	871884	5.00	4.81	
78 trans-1,3-Dichloropropene	75	10.073	10.067	0.006	91	390037	5.00	4.99	
79 Ethyl methacrylate	69	10.128	10.128	0.000	88	325099	5.00	4.97	
80 1,1,2-Trichloroethane	97	10.274	10.274	0.000	90	237610	5.00	4.92	
81 Tetrachloroethene	166	10.366	10.366	0.000	98	566929	5.00	6.46	
82 1,3-Dichloropropane	76	10.433	10.433	0.000	88	396295	5.00	4.80	
83 2-Hexanone	43	10.481	10.481	0.000	97	731549	25.0	24.4	
85 Chlorodibromomethane	129	10.652	10.652	0.000	90	296852	5.00	4.89	
86 Ethylene Dibromide	107	10.762	10.762	0.000	100	218637	5.00	4.72	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	0.000	85	1661378	10.0	10.0	
88 1-Chlorohexane	91	11.195	11.195	0.000	97	500689	5.00	4.77	
90 Chlorobenzene	112	11.213	11.213	0.000	96	976544	5.00	4.88	
91 1,1,1,2-Tetrachloroethane	131	11.298	11.298	0.000	97	342953	5.00	4.93	
92 Ethylbenzene	91	11.298	11.298	0.000	98	1708791	5.00	4.88	
93 m-Xylene & p-Xylene	106	11.414	11.414	0.000	100	1349224	10.0	9.77	
94 o-Xylene	106	11.743	11.743	0.000	96	655534	5.00	4.88	
95 Styrene	104	11.756	11.756	0.000	95	1056605	5.00	4.92	
96 Bromoform	173	11.914	11.914	0.000	98	176026	5.00	4.80	
97 Isopropylbenzene	105	12.042	12.042	0.000	95	1721763	5.00	4.83	

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	798782	10.0	9.94	
101 1,1,2,2-Tetrachloroethane	83	12.286	12.286	0.000	94	302936	5.00	4.82	
102 Bromobenzene	156	12.304	12.304	0.000	94	415582	5.00	4.79	
103 trans-1,4-Dichloro-2-butene	53	12.310	12.310	0.000	87	272967	25.0	19.0	
104 1,2,3-Trichloropropane	110	12.329	12.329	0.000	82	79241	5.00	4.59	
105 N-Propylbenzene	91	12.371	12.371	0.000	99	2092402	5.00	4.93	
106 2-Chlorotoluene	126	12.445	12.444	0.001	97	420497	5.00	4.84	
107 1,3,5-Trimethylbenzene	105	12.505	12.505	0.000	94	1454160	5.00	4.79	
108 4-Chlorotoluene	126	12.536	12.536	0.000	97	423751	5.00	4.83	
109 tert-Butylbenzene	134	12.749	12.743	0.006	92	330891	5.00	4.82	
110 Pentachloroethane	167	12.780	12.780	0.000	93	257560	5.00	4.74	
111 1,2,4-Trimethylbenzene	105	12.786	12.786	0.000	96	1497907	5.00	4.85	
112 sec-Butylbenzene	105	12.908	12.908	0.000	94	1961755	5.00	4.92	
113 1,3-Dichlorobenzene	146	13.011	13.011	0.000	99	827911	5.00	4.74	
114 4-Isopropyltoluene	119	13.018	13.017	0.001	97	1691538	5.00	4.98	
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	95	962745	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.085	13.085	0.000	95	826794	5.00	4.74	
117 1,2,3-Trimethylbenzene	120	13.091	13.091	0.000	98	646431	5.00	4.72	
118 Benzyl chloride	126	13.158	13.158	0.000	98	125883	5.00	5.30	
119 n-Butylbenzene	92	13.310	13.310	0.000	97	813700	5.00	4.90	
120 1,2-Dichlorobenzene	146	13.341	13.341	0.000	99	762025	5.00	4.79	
122 1,2-Dibromo-3-Chloropropane	155	13.883	13.883	0.000	89	45166	5.00	4.68	
123 1,3,5-Trichlorobenzene	180	14.011	14.011	0.000	98	596805	5.00	4.75	
124 1,2,4-Trichlorobenzene	180	14.432	14.432	0.000	94	469460	5.00	4.49	
125 Hexachlorobutadiene	225	14.517	14.517	0.000	96	220734	5.00	4.85	
126 Naphthalene	128	14.615	14.615	0.000	97	784446	5.00	4.01	
127 1,2,3-Trichlorobenzene	180	14.755	14.755	0.000	96	376856	5.00	4.18	
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:

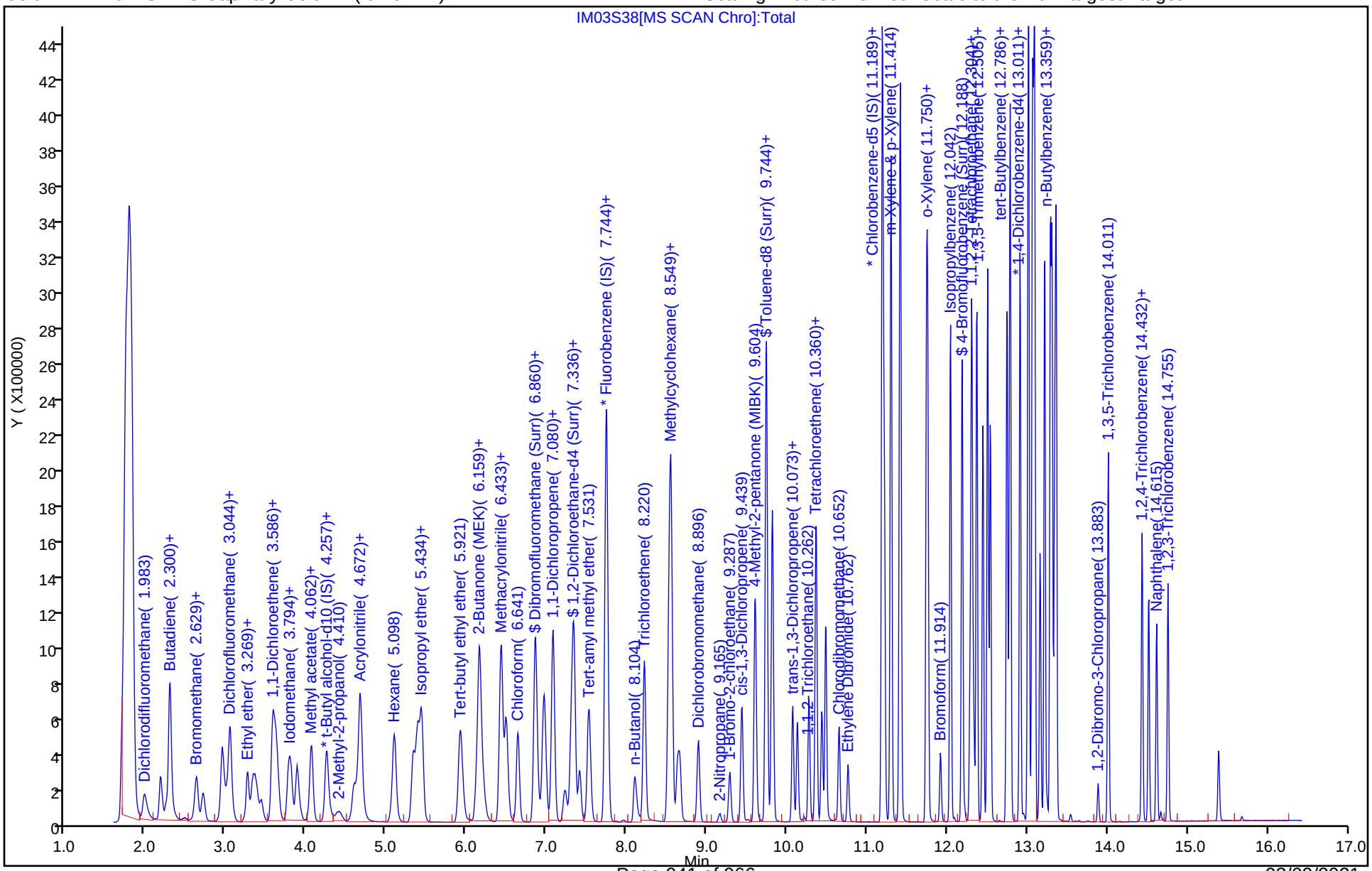
MSV_Q_QVOA1_00070	Amount Added:	5.38	Units: uL	
MSV_Q_QARC_00070	Amount Added:	5.38	Units: uL	
MSV_Q_QVOA6_00068	Amount Added:	5.38	Units: uL	
MSV_Q_EE_00003	Amount Added:	5.38	Units: uL	
MSV_Q_ETBR_00006	Amount Added:	5.38	Units: uL	
MSV_QGAS_826_00112	Amount Added:	5.38	Units: uL	
MSV_31_826ISS_00004	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 04-Mar-2021 13:07:06 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File:	\\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S38.D				
Injection Date:	04-Mar-2021 00:05:30	Instrument ID:	19930	Operator ID:	MEC29284
Lims ID:	410-30627-A-6 MS			Worklist Smp#:	16
Client ID:	HD-COD-SW-15-0/1-0				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	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: 2



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S38.D
Lims ID: 410-30627-A-6 MS
Client ID: HD-COD-SW-15-0/1-0
Sample Type: MS
Inject. Date: 04-Mar-2021 00:05:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-016
Misc. Info.: 410-30627-A-6 MS
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

First Level Reviewer: knouses Date: 04-Mar-2021 12:42:37

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.1	100.60
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	9.84	98.39
$ 75 Toluene-d8 (Surr)	10.0	9.88	98.82
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.94	99.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MSD Lab Sample ID: 410-30627-6 MSD

Matrix: Water Lab File ID: IM03S39.D

Analysis Method: 8260D Date Collected: 02/25/2021 12:10

Sample wt/vol: 25(mL) Date Analyzed: 03/04/2021 00:27

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.: 99333 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	5.00		0.50	0.070
71-55-6	1,1,1-Trichloroethane	5.24		0.50	0.060
79-34-5	1,1,2,2-Tetrachloroethane	4.81		0.50	0.070
79-00-5	1,1,2-Trichloroethane	4.91		0.50	0.060
75-34-3	1,1-Dichloroethane	4.93		0.50	0.070
75-35-4	1,1-Dichloroethene	5.09		0.50	0.060
106-93-4	1,2-Dibromoethane (EDB)	4.77		0.50	0.060
107-06-2	1,2-Dichloroethane	4.82		0.50	0.050
78-87-5	1,2-Dichloropropane	5.06		0.50	0.060
78-93-3	2-Butanone (MEK)	34.9		5.0	0.60
591-78-6	2-Hexanone	24.3		5.0	0.60
108-10-1	4-Methyl-2-pentanone (MIBK)	23.5		5.0	0.70
67-64-1	Acetone	31.3		5.0	0.90
71-43-2	Benzene	4.89		0.50	0.050
74-97-5	Bromochloromethane	4.72		0.50	0.050
75-27-4	Bromodichloromethane	4.98		0.50	0.050
75-25-2	Bromoform	4.86		1.0	0.30
74-83-9	Bromomethane	5.07		0.50	0.070
75-15-0	Carbon disulfide	4.72		1.0	0.060
56-23-5	Carbon tetrachloride	5.24		0.50	0.070
108-90-7	Chlorobenzene	4.89		0.50	0.060
75-00-3	Chloroethane	4.97		0.50	0.070
67-66-3	Chloroform	5.11		0.50	0.090
74-87-3	Chloromethane	5.07		0.50	0.060
156-59-2	cis-1,2-Dichloroethene	5.27		0.50	0.050
10061-01-5	cis-1,3-Dichloropropene	4.99		0.50	0.050
124-48-1	Dibromochloromethane	4.84		0.50	0.070
100-41-4	Ethylbenzene	4.91		0.50	0.060
1634-04-4	Methyl tert-butyl ether	4.67		0.50	0.050
75-09-2	Methylene Chloride	4.75		0.50	0.070
100-42-5	Styrene	4.88		0.50	0.050
127-18-4	Tetrachloroethene	6.56		0.50	0.060
108-88-3	Toluene	4.82		0.50	0.070
156-60-5	trans-1,2-Dichloroethene	4.91		0.50	0.060
10061-02-6	trans-1,3-Dichloropropene	5.17		0.50	0.060
79-01-6	Trichloroethene	5.50		0.50	0.060

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-30627-1

SDG No.:

Client Sample ID: HD-COD-SW-15-0/1-0 MSD Lab Sample ID: 410-30627-6 MSD

Matrix: Water Lab File ID: IM03S39.D

Analysis Method: 8260D Date Collected: 02/25/2021 12:10

Sample wt/vol: 25(mL) Date Analyzed: 03/04/2021 00:27

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.: 99333 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	5.34		0.50	0.10
1330-20-7	Xylenes, Total	14.6		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)	98		80-120

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S39.D
Lims ID: 410-30627-A-6 MSD
Client ID: HD-COD-SW-15-0/1-0
Sample Type: MSD
Inject. Date: 04-Mar-2021 00:27:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-017
Misc. Info.: 410-30627-A-6 MSD
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

First Level Reviewer: knouses Date: 04-Mar-2021 12:43:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Dichlorodifluoromethane	85	1.977	1.983	-0.006	99	374199	5.00	4.92	
4 Chloromethane	50	2.172	2.184	-0.012	99	447409	5.00	5.07	
6 Butadiene	39	2.288	2.294	-0.006	90	415444	5.00	5.51	
5 Vinyl chloride	62	2.294	2.306	-0.012	98	434086	5.00	5.34	
7 Bromomethane	94	2.623	2.629	-0.006	90	298628	5.00	5.07	
8 Chloroethane	64	2.708	2.709	-0.001	100	248020	5.00	4.97	
9 Dichlorofluoromethane	67	2.946	2.952	-0.006	96	466439	5.00	4.17	
10 Trichlorofluoromethane	101	3.013	3.019	-0.006	98	574701	5.00	5.46	
11 Ethyl ether	59	3.257	3.263	-0.006	91	236885	5.01	5.03	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.349	3.343	0.006	93	395712	5.00	5.36	
13 Acrolein	56	3.440	3.434	0.006	99	168740	37.5	19.8	
14 1,1-Dichloroethene	96	3.574	3.574	0.000	98	289526	5.00	5.09	
15 Acetone	43	3.605	3.605	0.000	100	331794	37.5	31.3	
16 112TCTFE	101	3.617	3.623	-0.006	90	308246	5.00	5.13	
17 Iodomethane	142	3.769	3.775	-0.006	99	513643	5.00	4.62	
18 Ethyl bromide	108	3.800	3.806	-0.006	98	236586	5.04	4.58	
19 Carbon disulfide	76	3.885	3.885	0.000	99	777935	5.00	4.72	
21 Methyl acetate	43	4.025	4.025	0.000	97	127561	5.00	4.41	
22 3-Chloro-1-propene	41	4.056	4.062	-0.006	94	445862	5.00	5.16	
23 Methylene Chloride	84	4.245	4.251	-0.006	91	299528	5.00	4.75	
* 24 t-Butyl alcohol-d10 (IS)	65	4.275	4.275	0.000	0	194375	50.0	50.0	
25 2-Methyl-2-propanol	59	4.397	4.397	0.000	99	193938	50.0	46.8	
26 Acrylonitrile	53	4.592	4.586	0.006	99	307824	25.0	22.3	
27 Methyl tert-butyl ether	73	4.653	4.659	-0.006	94	710728	5.00	4.67	
28 trans-1,2-Dichloroethene	96	4.672	4.672	0.000	100	307952	5.00	4.91	
29 Hexane	57	5.092	5.098	-0.006	92	468369	5.00	5.45	
31 1,1-Dichloroethane	63	5.330	5.330	0.000	96	559694	5.00	4.93	
32 Isopropyl ether	45	5.385	5.385	0.000	94	917721	5.00	4.89	
33 2-Chloro-1,3-butadiene	53	5.440	5.440	0.000	91	475748	5.00	5.22	
34 Tert-butyl ethyl ether	59	5.921	5.921	0.000	97	844333	5.00	4.77	
36 2-Butanone (MEK)	43	6.129	6.122	0.007	99	618783	37.5	34.9	

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	6.159	6.159	0.000	81	384127	5.00	5.27	
38 2,2-Dichloropropane	77	6.171	6.177	-0.006	85	476095	5.00	5.22	
40 Propionitrile	54	6.220	6.214	0.006	98	176591	37.5	34.1	
42 Methacrylonitrile	67	6.427	6.433	-0.006	91	601210	37.5	32.9	
43 Chlorobromomethane	128	6.488	6.488	0.000	92	151478	5.00	4.72	
44 Tetrahydrofuran	71	6.500	6.494	0.006	87	118649	25.0	22.1	
45 Chloroform	83	6.641	6.641	0.000	93	571232	5.00	5.11	
$ 46 Dibromofluoromethane (Surr)	113	6.854	6.854	0.000	94	526134	10.0	10.0	
47 1,1,1-Trichloroethane	97	6.866	6.866	0.000	98	526216	5.00	5.24	
48 Cyclohexane	56	6.964	6.964	0.000	90	578937	5.00	5.56	
51 1,1-Dichloropropene	75	7.073	7.074	-0.001	97	451491	5.00	5.06	
50 Carbon tetrachloride	117	7.073	7.080	-0.007	84	471276	5.00	5.24	
52 Isobutyl alcohol	41	7.232	7.226	0.006	95	154540	125.1	115.9	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.305	7.305	0.000	0	106169	10.0	10.0	
54 Benzene	78	7.336	7.336	0.000	96	1320950	5.00	4.89	
56 1,2-Dichloroethane	62	7.409	7.409	0.000	97	318133	5.00	4.82	
57 Tert-amyl methyl ether	73	7.525	7.525	0.000	99	798046	5.00	4.92	
* 58 Fluorobenzene (IS)	96	7.738	7.738	0.000	99	2131764	10.0	10.0	
59 n-Heptane	43	7.750	7.750	0.000	90	491606	5.00	5.70	
60 n-Butanol	56	8.098	8.092	0.006	87	275279	250.2	218.5	
61 Trichloroethene	95	8.220	8.214	0.006	97	388937	5.00	5.50	
62 Methylcyclohexane	83	8.524	8.524	0.000	94	641360	5.00	5.58	
63 1,2-Dichloropropane	63	8.549	8.549	0.000	94	335721	5.00	5.06	
64 Methyl methacrylate	69	8.628	8.628	0.000	91	157111	5.00	4.62	
65 1,4-Dioxane	88	8.640	8.628	0.012	35	23998	125.1	73.0	
66 Dibromomethane	93	8.659	8.659	0.000	94	154467	5.00	4.92	
68 Dichlorobromomethane	83	8.896	8.890	0.006	99	396357	5.00	4.98	
69 2-Nitropropane	41	9.158	9.158	0.000	99	38626	5.00	4.52	
71 2-Chloroethyl vinyl ether	63		9.250				ND	ND	
72 1-Bromo-2-chloroethane	63	9.286	9.280	0.006	98	308967	5.00	4.52	
73 cis-1,3-Dichloropropene	75	9.433	9.433	0.000	97	476448	5.00	4.99	
74 4-Methyl-2-pentanone (MIBK)	43	9.603	9.597	0.006	96	1034782	25.0	23.5	
$ 75 Toluene-d8 (Surr)	98	9.738	9.738	0.000	93	2117150	10.0	9.82	
76 Toluene	92	9.817	9.817	0.000	98	868073	5.00	4.82	
78 trans-1,3-Dichloropropene	75	10.073	10.067	0.006	91	401396	5.00	5.17	
79 Ethyl methacrylate	69	10.128	10.128	0.000	88	329194	5.00	5.06	
80 1,1,2-Trichloroethane	97	10.274	10.274	0.000	90	235782	5.00	4.91	
81 Tetrachloroethene	166	10.359	10.366	-0.007	98	571065	5.00	6.56	
82 1,3-Dichloropropane	76	10.433	10.433	0.000	89	389352	5.00	4.75	
83 2-Hexanone	43	10.481	10.481	0.000	97	734121	25.0	24.3	
85 Chlorodibromomethane	129	10.652	10.652	0.000	90	291781	5.00	4.84	
86 Ethylene Dibromide	107	10.762	10.762	0.000	98	219177	5.00	4.77	
* 87 Chlorobenzene-d5 (IS)	117	11.189	11.189	0.000	84	1650321	10.0	10.0	
88 1-Chlorohexane	91	11.195	11.195	0.000	96	502386	5.00	4.81	
90 Chlorobenzene	112	11.213	11.213	0.000	96	972920	5.00	4.89	
91 1,1,1,2-Tetrachloroethane	131	11.298	11.298	0.000	95	345026	5.00	5.00	
92 Ethylbenzene	91	11.298	11.298	0.000	98	1704738	5.00	4.91	
93 m-Xylene & p-Xylene	106	11.414	11.414	0.000	100	1340089	10.0	9.77	
94 o-Xylene	106	11.743	11.743	0.000	96	646782	5.00	4.85	
95 Styrene	104	11.755	11.756	-0.001	95	1040517	5.00	4.88	
96 Bromoform	173	11.914	11.914	0.000	98	177089	5.00	4.86	
97 Isopropylbenzene	105	12.042	12.042	0.000	95	1708960	5.00	4.83	

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	94	791429	10.0	9.92	
101 1,1,2,2-Tetrachloroethane	83	12.286	12.286	0.000	94	297403	5.00	4.81	
102 Bromobenzene	156	12.304	12.304	0.000	94	413954	5.00	4.86	
103 trans-1,4-Dichloro-2-butene	53	12.310	12.310	0.000	90	273495	25.0	18.9	
104 1,2,3-Trichloropropane	110	12.335	12.329	0.006	83	79308	5.00	4.68	
105 N-Propylbenzene	91	12.371	12.371	0.000	99	2080188	5.00	4.98	
106 2-Chlorotoluene	126	12.444	12.444	0.000	97	413935	5.00	4.85	
107 1,3,5-Trimethylbenzene	105	12.505	12.505	0.000	94	1452159	5.00	4.86	
108 4-Chlorotoluene	126	12.536	12.536	0.000	97	422861	5.00	4.91	
109 tert-Butylbenzene	134	12.743	12.743	0.000	93	330665	5.00	4.90	
110 Pentachloroethane	167	12.780	12.780	0.000	94	261596	5.00	4.89	
111 1,2,4-Trimethylbenzene	105	12.786	12.786	0.000	97	1475150	5.00	4.86	
112 sec-Butylbenzene	105	12.908	12.908	0.000	94	1953362	5.00	4.99	
113 1,3-Dichlorobenzene	146	13.011	13.011	0.000	98	814782	5.00	4.75	
114 4-Isopropyltoluene	119	13.017	13.017	0.000	97	1703282	5.00	5.10	
* 115 1,4-Dichlorobenzene-d4	152	13.066	13.066	0.000	96	945965	10.0	10.0	
116 1,4-Dichlorobenzene	146	13.085	13.085	-0.001	95	828215	5.00	4.83	
117 1,2,3-Trimethylbenzene	120	13.091	13.091	0.000	98	668241	5.00	4.96	
118 Benzyl chloride	126	13.158	13.158	0.000	98	121068	5.00	5.18	
119 n-Butylbenzene	92	13.310	13.310	0.000	97	810960	5.00	4.97	
120 1,2-Dichlorobenzene	146	13.341	13.341	0.000	99	750899	5.00	4.80	
122 1,2-Dibromo-3-Chloropropane	155	13.883	13.883	0.000	89	42970	5.00	4.53	
123 1,3,5-Trichlorobenzene	180	14.011	14.011	0.000	98	597991	5.00	4.84	
124 1,2,4-Trichlorobenzene	180	14.432	14.432	0.000	94	472760	5.00	4.60	
125 Hexachlorobutadiene	225	14.517	14.517	0.000	96	218646	5.00	4.89	
126 Naphthalene	128	14.615	14.615	0.000	97	807584	5.00	4.21	
127 1,2,3-Trichlorobenzene	180	14.755	14.755	0.000	96	388125	5.00	4.38	
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_Q_QVOA1_00070	Amount Added:	5.38	Units: uL	
MSV_Q_QARC_00070	Amount Added:	5.38	Units: uL	
MSV_Q_QVOA6_00068	Amount Added:	5.38	Units: uL	
MSV_Q_EE_00003	Amount Added:	5.38	Units: uL	
MSV_Q_ETBR_00006	Amount Added:	5.38	Units: uL	
MSV_QGAS_826_00112	Amount Added:	5.38	Units: uL	
MSV_31_826ISS_00004	Amount Added:	5.00	Units: uL	Run Reagent

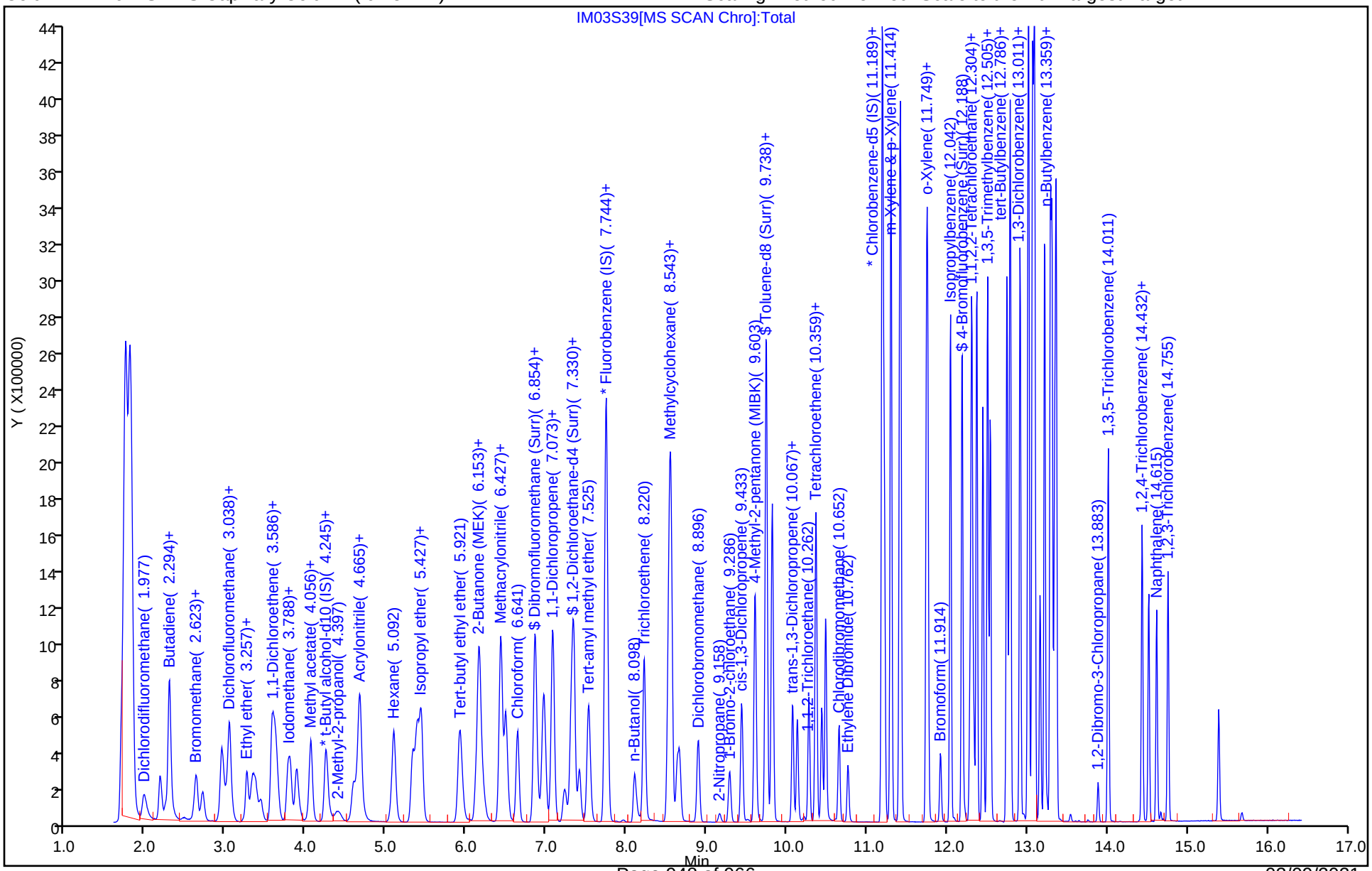
Report Date: 04-Mar-2021 13:07:11 Chrom Revision: 2.3 05-Feb-2021 00:13:28

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S39.D

Injection Date:	04-Mar-2021 00:27:30	Instrument ID:	19930	Operator ID:	MEC29284
Lims ID:	410-30627-A-6 MSD			Worklist Smp#:	17
Client ID:	HD-COD-SW-15-0/1-0				
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: 2



Eurofins Lancaster Laboratories Env, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\IM03S39.D
Lims ID: 410-30627-A-6 MSD
Client ID: HD-COD-SW-15-0/1-0
Sample Type: MSD
Inject. Date: 04-Mar-2021 00:27:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023228-017
Misc. Info.: 410-30627-A-6 MSD
Operator ID: MEC29284 Instrument ID: 19930

Method: \\chromfs\Lancaster\ChromData\19930\20210303-23228.b\8260 25ml HP31.m
Limit Group: MSV - 8260C_D
Last Update: 04-Mar-2021 13:06:32 Calib Date: 23-Nov-2020 18:05:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\19930\20201123-16280.b\IN23I17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1631

First Level Reviewer: knouses Date: 04-Mar-2021 12:43:15

Compound	Amount Added	Amount Recovered	% Rec.
$ 46 Dibromofluoromethane (Surr)	10.0	10.0	99.96
$ 53 1,2-Dichloroethane-d4 (Surr)	10.0	10.0	100.04
$ 75 Toluene-d8 (Surr)	10.0	9.82	98.23
$ 100 4-Bromofluorobenzene (Surr)	10.0	9.92	99.16

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Instrument ID: 19930 Start Date: 11/23/2020 11:57

Analysis Batch Number: 69397 End Date: 11/23/2020 18:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-69397/1		11/23/2020 11:57	1	IN23T01.D	R-624SilMS 30m 0.25(mm)
IC 410-69397/3		11/23/2020 12:45	1	IN23I01.D	R-624SilMS 30m 0.25(mm)
ICIS 410-69397/4		11/23/2020 13:06	1	IN23I02.D	R-624SilMS 30m 0.25(mm)
IC 410-69397/5		11/23/2020 13:28	1	IN23I03.D	R-624SilMS 30m 0.25(mm)
IC 410-69397/6		11/23/2020 13:49	1	IN23I04.D	R-624SilMS 30m 0.25(mm)
IC 410-69397/7		11/23/2020 14:10	1	IN23I05.D	R-624SilMS 30m 0.25(mm)
IC 410-69397/8		11/23/2020 14:31	1	IN23I06.D	R-624SilMS 30m 0.25(mm)
IC 410-69397/9		11/23/2020 14:53	1	IN23I07.D	R-624SilMS 30m 0.25(mm)
ICV 410-69397/10		11/23/2020 15:14	1	IN23V01.D	R-624SilMS 30m 0.25(mm)
IC 410-69397/12		11/23/2020 15:56	1		R-624SilMS 30m 0.25(mm)
IC 410-69397/13		11/23/2020 16:17	1		R-624SilMS 30m 0.25(mm)
IC 410-69397/14		11/23/2020 16:39	1		R-624SilMS 30m 0.25(mm)
IC 410-69397/15		11/23/2020 17:01	1		R-624SilMS 30m 0.25(mm)
IC 410-69397/16		11/23/2020 17:22	1		R-624SilMS 30m 0.25(mm)
IC 410-69397/17		11/23/2020 17:43	1		R-624SilMS 30m 0.25(mm)
IC 410-69397/18		11/23/2020 18:05	1		R-624SilMS 30m 0.25(mm)
ICV 410-69397/19		11/23/2020 18:26	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Instrument ID: 16334 Start Date: 11/30/2020 11:46

Analysis Batch Number: 70996 End Date: 11/30/2020 18:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-70996/1		11/30/2020 11:46	1	GN30T01.D	R-624SilMS 30m 0.25(mm)
IC 410-70996/3		11/30/2020 12:50	1	GN30I01.D	R-624SilMS 30m 0.25(mm)
ICIS 410-70996/4		11/30/2020 13:12	1	GN30I02.D	R-624SilMS 30m 0.25(mm)
IC 410-70996/5		11/30/2020 13:34	1	GN30I03.D	R-624SilMS 30m 0.25(mm)
IC 410-70996/6		11/30/2020 13:56	1	GN30I04.D	R-624SilMS 30m 0.25(mm)
IC 410-70996/7		11/30/2020 14:19	1	GN30I05.D	R-624SilMS 30m 0.25(mm)
IC 410-70996/8		11/30/2020 14:41	1	GN30I06.D	R-624SilMS 30m 0.25(mm)
IC 410-70996/9		11/30/2020 15:03	1	GN30I07.D	R-624SilMS 30m 0.25(mm)
ICV 410-70996/10		11/30/2020 15:26	1	GN30V01.D	R-624SilMS 30m 0.25(mm)
IC 410-70996/12		11/30/2020 16:10	1		R-624SilMS 30m 0.25(mm)
IC 410-70996/13		11/30/2020 16:32	1		R-624SilMS 30m 0.25(mm)
IC 410-70996/14		11/30/2020 16:54	1		R-624SilMS 30m 0.25(mm)
IC 410-70996/15		11/30/2020 17:16	1		R-624SilMS 30m 0.25(mm)
IC 410-70996/16		11/30/2020 17:39	1		R-624SilMS 30m 0.25(mm)
IC 410-70996/17		11/30/2020 18:01	1		R-624SilMS 30m 0.25(mm)
IC 410-70996/18		11/30/2020 18:23	1		R-624SilMS 30m 0.25(mm)
ICV 410-70996/19		11/30/2020 18:45	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Instrument ID: 16334 Start Date: 03/03/2021 08:28

Analysis Batch Number: 99025 End Date: 03/03/2021 19:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-99025/1		03/03/2021 08:28	1	GM03T02.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-99025/3		03/03/2021 09:17	1	GM03X03.D	R-624SilMS 30m 0.25(mm)
CCV 410-99025/4		03/03/2021 09:39	1		R-624SilMS 30m 0.25(mm)
LCS 410-99025/5		03/03/2021 10:01	1	GM03X05.D	R-624SilMS 30m 0.25(mm)
LCSD 410-99025/6		03/03/2021 10:23	1	GM03X06.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 10:45	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 11:07	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 11:29	1		R-624SilMS 30m 0.25(mm)
MB 410-99025/10		03/03/2021 11:51	1	GM03X10.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 12:13	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 12:34	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 12:56	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 13:18	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 13:40	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 14:24	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 14:46	100		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 15:08	1		R-624SilMS 30m 0.25(mm)
410-30627-1	HD-COD-SW-6-0/1-0	03/03/2021 15:30	1	GM03X20.D	R-624SilMS 30m 0.25(mm)
410-30627-2	HD-COD-SW-7-0/1-0	03/03/2021 15:52	1	GM03X21.D	R-624SilMS 30m 0.25(mm)
410-30627-3	HD-COD-SW-8-0/1-0	03/03/2021 16:14	1	GM03X22.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 17:00	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 17:22	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 17:44	200		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 18:06	2000		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 18:28	20		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 18:50	200		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 19:12	20		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 19:34	200		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-30627-1

SDG No.:

Instrument ID: 19930 Start Date: 03/03/2021 18:52

Analysis Batch Number: 99333 End Date: 03/04/2021 06:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-99333/1		03/03/2021 18:52	1	IM03T31.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-99333/3		03/03/2021 19:28	1	IM03C31.D	R-624SilMS 30m 0.25(mm)
CCV 410-99333/4		03/03/2021 19:49	1		R-624SilMS 30m 0.25(mm)
LCS 410-99333/5		03/03/2021 20:11	1	IM03L31.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 20:32	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 20:53	1		R-624SilMS 30m 0.25(mm)
MB 410-99333/8		03/03/2021 21:15	1	IM03B31.D	R-624SilMS 30m 0.25(mm)
410-30627-14	HD-QC1-0/1-2	03/03/2021 21:36	1	IM03S31.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 21:57	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 22:19	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/03/2021 22:40	10		R-624SilMS 30m 0.25(mm)
410-30627-4	HD-COD-SW-9-0/1-0	03/03/2021 23:02	1	IM03S35.D	R-624SilMS 30m 0.25(mm)
410-30627-5	HD-COD-SW-13-0/1-0	03/03/2021 23:23	1	IM03S36.D	R-624SilMS 30m 0.25(mm)
410-30627-6	HD-COD-SW-15-0/1-0	03/03/2021 23:44	1	IM03S37.D	R-624SilMS 30m 0.25(mm)
410-30627-6 MS	HD-COD-SW-15-0/1-0 MS	03/04/2021 00:05	1	IM03S38.D	R-624SilMS 30m 0.25(mm)
410-30627-6 MSD	HD-COD-SW-15-0/1-0 MSD	03/04/2021 00:27	1	IM03S39.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		03/04/2021 00:48	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/04/2021 01:10	1		R-624SilMS 30m 0.25(mm)
410-30627-7	HD-COD-SW-16-0/1-0	03/04/2021 01:31	1	IM03S42.D	R-624SilMS 30m 0.25(mm)
410-30627-8	HD-COD-SW-17-0/1-0	03/04/2021 01:52	1	IM03S43.D	R-624SilMS 30m 0.25(mm)
410-30627-9	HD-COD-SW-26-0/1-0	03/04/2021 02:13	1	IM03S44.D	R-624SilMS 30m 0.25(mm)
410-30627-10	HD-COD-SW-27-0/1-0	03/04/2021 02:35	1	IM03S45.D	R-624SilMS 30m 0.25(mm)
410-30627-11	HD-COD-SW-28-0/1-0	03/04/2021 02:56	1	IM03S46.D	R-624SilMS 30m 0.25(mm)
410-30627-12	HD-COD-SW-29-0/1-0	03/04/2021 03:17	1	IM03S47.D	R-624SilMS 30m 0.25(mm)
410-30627-13	HD-QC1-0/1-1	03/04/2021 03:38	1	IM03S48.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		03/04/2021 04:00	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/04/2021 04:21	100		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/04/2021 04:42	100		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/04/2021 05:04	1000		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/04/2021 05:26	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		03/04/2021 06:08	10		R-624SilMS 30m 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-30627-1

SDG No.:

Batch Number: 69397 Batch Start Date: 11/23/20 11:57 Batch Analyst: Campbell, Miranda E

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MSV_31_826ISS 00003	MSV_Q_EE 00003	MSV_Q_ETBR 00005	MSV_Q_QARC 00055
BFB 410-69397/1		8260D		1 uL	1 uL				
IC 410-69397/3		8260D		25 mL	25 mL	5 uL			
ICIS 410-69397/4		8260D		25 mL	25 mL	5 uL			
IC 410-69397/5		8260D		25 mL	25 mL	5 uL			
IC 410-69397/6		8260D		25 mL	25 mL	5 uL			
IC 410-69397/7		8260D		25 mL	25 mL	5 uL			
IC 410-69397/8		8260D		25 mL	25 mL	5 uL			
IC 410-69397/9		8260D		25 mL	25 mL	5 uL			
ICV 410-69397/10		8260D		25 mL	25 mL	5 uL	12.5 uL	12.5 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_Q_QVOA1 00056	MSV_Q_QVOA6 00053	MSV_QGAS_826 00092	MSV_RV1_826 00030	MSV_RV4_826 00034	MSV_RV4GAS826 00096
BFB 410-69397/1		8260D							
IC 410-69397/3		8260D					25 uL	25 uL	25 uL
ICIS 410-69397/4		8260D					10 uL	10 uL	10 uL
IC 410-69397/5		8260D					5 uL	5 uL	5 uL
IC 410-69397/6		8260D					2 uL	2 uL	2 uL
IC 410-69397/7		8260D					2 uL	2 uL	2 uL
IC 410-69397/8		8260D					2 uL	2 uL	2 uL
IC 410-69397/9		8260D					2 uL	2 uL	2 uL
ICV 410-69397/10		8260D		12.5 uL	12.5 uL	12.5 uL			

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_BFB 00003					
BFB 410-69397/1		8260D		1 uL					
IC 410-69397/3		8260D							
ICIS 410-69397/4		8260D							
IC 410-69397/5		8260D							
IC 410-69397/6		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.: 410-30627-1

SDG No.:

Batch Number: 69397 Batch Start Date: 11/23/20 11:57 Batch Analyst: Campbell, Miranda E

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_BFB 00003					
IC 410-69397/7		8260D							
IC 410-69397/8		8260D							
IC 410-69397/9		8260D							
ICV 410-69397/10		8260D							

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.: 410-30627-1

SDG No.:

Batch Number: 70996 Batch Start Date: 11/30/20 11:46 Batch Analyst: Viray, Don V

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MSV_29_826ISS 00013	MSV_Q_EE 00003	MSV_Q_ETBR 00005	MSV_Q_QARC 00056
BFB 410-70996/1		8260D		1 uL	1 uL				
IC 410-70996/3		8260D		25 mL	25 mL	1 uL			
ICIS 410-70996/4		8260D		25 mL	25 mL	1 uL			
IC 410-70996/5		8260D		25 mL	25 mL	1 uL			
IC 410-70996/6		8260D		25 mL	25 mL	1 uL			
IC 410-70996/7		8260D		25 mL	25 mL	1 uL			
IC 410-70996/8		8260D		25 mL	25 mL	1 uL			
IC 410-70996/9		8260D		25 mL	25 mL	1 uL			
ICV 410-70996/10		8260D		25 mL	25 mL	1 uL	12.5 uL	12.5 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_Q_QVOA1 00057	MSV_Q_QVOA6 00054	MSV_QGAS_826 00093	MSV_RV1_826 00031	MSV_RV4_826 00035	MSV_RV4GAS826 00097
BFB 410-70996/1		8260D							
IC 410-70996/3		8260D					25 uL	25 uL	25 uL
ICIS 410-70996/4		8260D					10 uL	10 uL	10 uL
IC 410-70996/5		8260D					5 uL	5 uL	5 uL
IC 410-70996/6		8260D					2 uL	2 uL	2 uL
IC 410-70996/7		8260D					2 uL	2 uL	2 uL
IC 410-70996/8		8260D					2 uL	2 uL	2 uL
IC 410-70996/9		8260D					2 uL	2 uL	2 uL
ICV 410-70996/10		8260D		12.5 uL	12.5 uL	12.5 uL			

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_BFB 00003					
BFB 410-70996/1		8260D		1 uL					
IC 410-70996/3		8260D							
ICIS 410-70996/4		8260D							
IC 410-70996/5		8260D							
IC 410-70996/6		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.: 410-30627-1

SDG No.:

Batch Number: 70996 Batch Start Date: 11/30/20 11:46 Batch Analyst: Viray, Don V

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_V_BFB 00003					
IC 410-70996/7		8260D							
IC 410-70996/8		8260D							
IC 410-70996/9		8260D							
ICV 410-70996/10		8260D							

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.: 410-30627-1

SDG No.:

Batch Number: 99025 Batch Start Date: 03/03/21 08:28 Batch Analyst: Campbell, Miranda 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 410-99025/1		8260D		1 uL	1 uL				
CCVIS 410-99025/3		8260D		25 mL	25 mL				0126201F
LCS 410-99025/5		8260D		25 mL	25 mL				0126201F
LCSD 410-99025/6		8260D		25 mL	25 mL				0126201F
MB 410-99025/10		8260D		25 mL	25 mL				0126201F
410-30627-A-1	HD-COD-SW-6-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-30627-A-2	HD-COD-SW-7-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-30627-A-3	HD-COD-SW-8-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_29_826ISS 00015	MSV_Q_EE 00003	MSV_Q_ETBR 00006	MSV_Q_QARC 00070	MSV_Q_QVOA1 00070	MSV_Q_QVOA6 00068
BFB 410-99025/1		8260D							
CCVIS 410-99025/3		8260D		1 uL					
LCS 410-99025/5		8260D		1 uL	12.5 uL	12.5 uL	12.5 uL	12.5 uL	12.5 uL
LCSD 410-99025/6		8260D		1 uL	12.5 uL	12.5 uL	12.5 uL	12.5 uL	12.5 uL
MB 410-99025/10		8260D		1 uL					
410-30627-A-1	HD-COD-SW-6-0/1-0	8260D	T	1 uL					
410-30627-A-2	HD-COD-SW-7-0/1-0	8260D	T	1 uL					
410-30627-A-3	HD-COD-SW-8-0/1-0	8260D	T	1 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_QGAS_826 00112	MSV_RV1_826 00040	MSV_RV4_826 00045	MSV_RV4GAS826 00115	MSV_V_BFB 00004	
BFB 410-99025/1		8260D						1 uL	
CCVIS 410-99025/3		8260D			10 uL	10 uL	10 uL		
LCS 410-99025/5		8260D		12.5 uL					
LCSD 410-99025/6		8260D		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.: 410-30627-1

SDG No.:

Batch Number: 99025 Batch Start Date: 03/03/21 08:28 Batch Analyst: Campbell, Miranda E

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_QGAS_826 00112	MSV_RV1_826 00040	MSV_RV4_826 00045	MSV_RV4GAS826 00115	MSV_V_BFB 00004	
MB 410-99025/10		8260D							
410-30627-A-1	HD-COD-SW-6-0/1-0	8260D	T						
410-30627-A-2	HD-COD-SW-7-0/1-0	8260D	T						
410-30627-A-3	HD-COD-SW-8-0/1-0	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.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-30627-1

SDG No.:

Batch Number: 99333 Batch Start Date: 03/03/21 18:52 Batch Analyst: Knouse, Shian

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-99333/1		8260D		1 uL	1 uL				
CCVIS 410-99333/3		8260D		25 mL	25 mL				0126201F
LCS 410-99333/5		8260D		25 mL	25 mL				0126201F
MB 410-99333/8		8260D		25 mL	25 mL				0126201F
410-30627-A-14	HD-QC1-0/1-2	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-30627-A-4	HD-COD-SW-9-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-30627-A-5	HD-COD-SW-13-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-30627-A-6	HD-COD-SW-15-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-30627-A-6 MS	HD-COD-SW-15-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-30627-A-6 MSD	HD-COD-SW-15-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-30627-A-7	HD-COD-SW-16-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-30627-A-8	HD-COD-SW-17-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-30627-A-9	HD-COD-SW-26-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-30627-A-10	HD-COD-SW-27-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-30627-A-11	HD-COD-SW-28-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-30627-A-12	HD-COD-SW-29-0/1-0	8260D	T	25 mL	25 mL	<2 SU	N	N	
410-30627-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_31_826ISS 00004	MSV_Q_EE 00003	MSV_Q_ETBR 00006	MSV_Q_QARC 00070	MSV_Q_QVOA1 00070	MSV_Q_QVOA6 00068
BFB 410-99333/1		8260D							
CCVIS 410-99333/3		8260D		5 uL					
LCS 410-99333/5		8260D		5 uL	12.5 uL	12.5 uL	12.5 uL	12.5 uL	12.5 uL
MB 410-99333/8		8260D		5 uL					
410-30627-A-14	HD-QC1-0/1-2	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.: 410-30627-1

SDG No.:

Batch Number: 99333 Batch Start Date: 03/03/21 18:52 Batch Analyst: Knouse, Shian

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_31_826ISS 00004	MSV_Q_EE 00003	MSV_Q_ETBR 00006	MSV_Q_QARC 00070	MSV_Q_QVOA1 00070	MSV_Q_QVOA6 00068
410-30627-A-4	HD-COD-SW-9-0/1-0	8260D	T	5 uL					
410-30627-A-5	HD-COD-SW-13-0/1-0	8260D	T	5 uL					
410-30627-A-6	HD-COD-SW-15-0/1-0	8260D	T	5 uL					
410-30627-A-6 MS	HD-COD-SW-15-0/1-0	8260D	T	5 uL	5.38 uL	5.38 uL	5.38 uL	5.38 uL	5.38 uL
410-30627-A-6 MSD	HD-COD-SW-15-0/1-0	8260D	T	5 uL	5.38 uL	5.38 uL	5.38 uL	5.38 uL	5.38 uL
410-30627-A-7	HD-COD-SW-16-0/1-0	8260D	T	5 uL					
410-30627-A-8	HD-COD-SW-17-0/1-0	8260D	T	5 uL					
410-30627-A-9	HD-COD-SW-26-0/1-0	8260D	T	5 uL					
410-30627-A-10	HD-COD-SW-27-0/1-0	8260D	T	5 uL					
410-30627-A-11	HD-COD-SW-28-0/1-0	8260D	T	5 uL					
410-30627-A-12	HD-COD-SW-29-0/1-0	8260D	T	5 uL					
410-30627-A-13	HD-QC1-0/1-1	8260D	T	5 uL					

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_QGAS_826 00112	MSV_RV1_826 00040	MSV_RV4_826 00045	MSV_RV4GAS826 00115	MSV_V_BFB 00004	
BFB 410-99333/1		8260D						1 uL	
CCVIS 410-99333/3		8260D			25 uL	25 uL	25 uL		
LCS 410-99333/5		8260D		12.5 uL					
MB 410-99333/8		8260D							
410-30627-A-14	HD-QC1-0/1-2	8260D	T						
410-30627-A-4	HD-COD-SW-9-0/1-0	8260D	T						
410-30627-A-5	HD-COD-SW-13-0/1-0	8260D	T						
410-30627-A-6	HD-COD-SW-15-0/1-0	8260D	T						
410-30627-A-6 MS	HD-COD-SW-15-0/1-0	8260D	T	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.: 410-30627-1

SDG No.:

Batch Number: 99333 Batch Start Date: 03/03/21 18:52 Batch Analyst: Knouse, Shian

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	MSV_QGAS_826 00112	MSV_RV1_826 00040	MSV_RV4_826 00045	MSV_RV4GAS826 00115	MSV_V_BFB 00004	
410-30627-A-6 MSD	HD-COD-SW-15-0/1-0	8260D	T	5.38 uL					
410-30627-A-7	HD-COD-SW-16-0/1-0	8260D	T						
410-30627-A-8	HD-COD-SW-17-0/1-0	8260D	T						
410-30627-A-9	HD-COD-SW-26-0/1-0	8260D	T						
410-30627-A-10	HD-COD-SW-27-0/1-0	8260D	T						
410-30627-A-11	HD-COD-SW-28-0/1-0	8260D	T						
410-30627-A-12	HD-COD-SW-29-0/1-0	8260D	T						
410-30627-A-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

Environmental Analysis Requ dy

410-30627 Chain of Custody

eurofins

Lancaster Laboratories Environmental

Acct. # _____ Group # _____ Sample # _____

Client: **Groundwater Sciences Corporation**			
Project Name/#: fYNOP Monthly Surface Water	Site ID #: fYNOP, York PA		
Project Manager: Chris O'Neil	P.O. #: 10012.42		
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	Tissue	Sediment	Water: Potable	Ground	Surface	NPDES	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	2/25/21	1105	X					X					3	X		
HD-COD-SW-7-0/1-0		1145	X					X					3	X		
HD-COD-SW-8-0/1-0		0940	X					X					3	X		
HD-COD-SW-9-0/1-0		1245	X					X					3	X		
HD-COD-SW-13-0/1-0		1000	X					X					3	X		
HD-COD-SW-15-0/1-0		1210	X					X					3	X		
HD-COD-SW-15-0/1-0 MS		1210	X					X					3	X		
HD-COD-SW-15-0/1-0 MSD		1210	X					X					3	X		
HD-COD-SW-16-0/1-0		1225	X					X					3	X		
HD-COD-SW-17-0/1-0		1040	X					X					3	X		

For Lab Use Only

SF #: _____

SCR #: _____

Preservation Codes

H = HCl T = Thiosulfate

N = HNO_3 B = NaOH

S = H_2SO_4 P = H_3PO_4

O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address:

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
	2/26/21	1423		2/26/21	1423
	2-26-21	1630			

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 0.5 °C

Environmental Analysis Request/Chain of Custody

eurofins

Lancaster Laboratories Environmental

Acct. # _____ Group # _____ Sample # _____

Client: **Groundwater Sciences Corporation**			
Project Name/#: fYNOP Monthly Surface Water	Site ID #: fYNOP, York PA		
Project Manager: Chris O'Neil	P.O. #: 10012.42		
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)
HD-COD-SW-26-0/1-0	2/25/21	1125	X					X					3	X
HD-COD-SW-27-0/1-0		1205	X					X					3	X
HD-COD-SW-28-0/1-0		1255	X					X					3	X
HD-COD-SW-29-0/1-0		0925	X					X					3	X
HD-QC1-0/1-1		1200	X					X					3	X
HD-QC1-0/1-2		—	X									X	2	X

Preservation Codes: H

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
	2/26/21 2/26/21	1433		2/26/21	1433
Relinquished by:	Date	Time	Received by:	Date	Time
	2-26-21	1630			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
				2-26-21	1702

Relinquished by Commercial Carrier:

UPS _____ FedEx _____ Other _____

Temperature upon receipt 05 °C

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-30627-1

Login Number: 30627
List Number: 1
Creator: Jeremiah, Cory T

List Source: Eurofins Lancaster Laboratories Env

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	