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ANALYTICAL REPORT

PREPARED FOR

Attn: Christopher O'Neil
Groundwater Sciences Corporation
2550 Interstate Drive
Suite 303
Harrisburg PA 17110

Generated 07/09/2024

JOB DESCRIPTION

fYNOP - SPBA Quarterly

JOB NUMBER

410-177862-1

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster PA 17601

See page two for job notes and contact information.

Eurofins Lancaster Laboratories Environment Testing, LLC

Job Notes

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

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

Authorization

Generated
07/09/2024

Authorized for release by
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717 205-7820

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
^c	CCV Recovery is outside acceptance limits.
cn	Refer to Case Narrative for further detail
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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
410-177862-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/27/2024 2:53 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 1.8°C.

Receipt Exceptions
A trip blank was received in the cooler/package, but not entered with this job. The Trip blank logged in and reported with job number 410-177855.

The following sample was listed on the Chain of Custody (COC); however, no sample was received: HD-QC1-0/1-2 (410-177862-4).

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 410-525820 recovered outside acceptance criteria, low biased, for Chloromethane and Vinyl chloride. 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.

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
Job ID: 410-177862-1
Project/Site: fYNOP - SPBA Quarterly

Client Sample ID: HD-MW-166-0/1-0
Lab Sample ID: 410-177862-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.65	J	1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	0.43	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-MW-167-0/1-0
Lab Sample ID: 410-177862-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.7		1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	0.33	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-MW-168-0/1-0
Lab Sample ID: 410-177862-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: HD-MW-166-0/1-0

Lab Sample ID: 410-177862-1

Date Collected: 06/26/24 09:15

Matrix: Water

Date Received: 06/27/24 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/09/24 01:02	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/09/24 01:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/09/24 01:02	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/09/24 01:02	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/09/24 01:02	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/09/24 01:02	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			07/09/24 01:02	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/09/24 01:02	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/09/24 01:02	1
2-Butanone (MEK)	ND		10	0.50	ug/L			07/09/24 01:02	1
2-Hexanone	ND		10	0.85	ug/L			07/09/24 01:02	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			07/09/24 01:02	1
Acetone	ND		20	0.70	ug/L			07/09/24 01:02	1
Benzene	ND		1.0	0.30	ug/L			07/09/24 01:02	1
Bromochloromethane	ND		5.0	0.20	ug/L			07/09/24 01:02	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/09/24 01:02	1
Bromoform	ND		4.0	1.0	ug/L			07/09/24 01:02	1
Bromomethane	ND		1.0	0.30	ug/L			07/09/24 01:02	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/09/24 01:02	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/09/24 01:02	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/09/24 01:02	1
Chloroethane	ND		1.0	0.30	ug/L			07/09/24 01:02	1
Chloroform	ND		1.0	0.30	ug/L			07/09/24 01:02	1
Chloromethane	ND	^c cn	2.0	0.55	ug/L			07/09/24 01:02	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/09/24 01:02	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/09/24 01:02	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/09/24 01:02	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/09/24 01:02	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/09/24 01:02	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/09/24 01:02	1
Styrene	ND		5.0	0.30	ug/L			07/09/24 01:02	1
Tetrachloroethene	**0.65**	**J**	1.0	0.30	ug/L			07/09/24 01:02	1
Toluene	ND		1.0	0.30	ug/L			07/09/24 01:02	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/09/24 01:02	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/09/24 01:02	1
Trichloroethene	**0.43**	**J**	1.0	0.30	ug/L			07/09/24 01:02	1
Vinyl chloride	ND	^c cn	1.0	0.30	ug/L			07/09/24 01:02	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/09/24 01:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*07/09/24 01:02*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*07/09/24 01:02*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 120*		*07/09/24 01:02*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/09/24 01:02*	*1*

Client Sample ID: HD-MW-167-0/1-0

Lab Sample ID: 410-177862-2

Date Collected: 06/26/24 09:05

Matrix: Water

Date Received: 06/27/24 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/09/24 01:24	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/09/24 01:24	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/09/24 01:24	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/09/24 01:24	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/09/24 01:24	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/09/24 01:24	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			07/09/24 01:24	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/09/24 01:24	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/09/24 01:24	1
2-Butanone (MEK)	ND		10	0.50	ug/L			07/09/24 01:24	1
2-Hexanone	ND		10	0.85	ug/L			07/09/24 01:24	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			07/09/24 01:24	1
Acetone	ND		20	0.70	ug/L			07/09/24 01:24	1
Benzene	ND		1.0	0.30	ug/L			07/09/24 01:24	1
Bromochloromethane	ND		5.0	0.20	ug/L			07/09/24 01:24	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/09/24 01:24	1
Bromoform	ND		4.0	1.0	ug/L			07/09/24 01:24	1
Bromomethane	ND		1.0	0.30	ug/L			07/09/24 01:24	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/09/24 01:24	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/09/24 01:24	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/09/24 01:24	1
Chloroethane	ND		1.0	0.30	ug/L			07/09/24 01:24	1
Chloroform	ND		1.0	0.30	ug/L			07/09/24 01:24	1
Chloromethane	ND	^c cn	2.0	0.55	ug/L			07/09/24 01:24	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/09/24 01:24	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/09/24 01:24	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/09/24 01:24	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/09/24 01:24	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/09/24 01:24	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/09/24 01:24	1
Styrene	ND		5.0	0.30	ug/L			07/09/24 01:24	1
Tetrachloroethene	**1.7**		1.0	0.30	ug/L			07/09/24 01:24	1
Toluene	ND		1.0	0.30	ug/L			07/09/24 01:24	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/09/24 01:24	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/09/24 01:24	1
Trichloroethene	**0.33**	**J**	1.0	0.30	ug/L			07/09/24 01:24	1
Vinyl chloride	ND	^c cn	1.0	0.30	ug/L			07/09/24 01:24	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/09/24 01:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*07/09/24 01:24*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*07/09/24 01:24*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*07/09/24 01:24*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*07/09/24 01:24*	*1*

Client Sample ID: HD-MW-168-0/1-0

Lab Sample ID: 410-177862-3

Date Collected: 06/26/24 09:00

Matrix: Water

Date Received: 06/27/24 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/09/24 01:47	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/09/24 01:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/09/24 01:47	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/09/24 01:47	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/09/24 01:47	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/09/24 01:47	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			07/09/24 01:47	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/09/24 01:47	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/09/24 01:47	1
2-Butanone (MEK)	ND		10	0.50	ug/L			07/09/24 01:47	1
2-Hexanone	ND		10	0.85	ug/L			07/09/24 01:47	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			07/09/24 01:47	1
Acetone	ND		20	0.70	ug/L			07/09/24 01:47	1
Benzene	ND		1.0	0.30	ug/L			07/09/24 01:47	1
Bromochloromethane	ND		5.0	0.20	ug/L			07/09/24 01:47	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/09/24 01:47	1
Bromoform	ND		4.0	1.0	ug/L			07/09/24 01:47	1
Bromomethane	ND		1.0	0.30	ug/L			07/09/24 01:47	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/09/24 01:47	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/09/24 01:47	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/09/24 01:47	1
Chloroethane	ND		1.0	0.30	ug/L			07/09/24 01:47	1
Chloroform	ND		1.0	0.30	ug/L			07/09/24 01:47	1
Chloromethane	ND	^c cn	2.0	0.55	ug/L			07/09/24 01:47	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/09/24 01:47	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/09/24 01:47	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/09/24 01:47	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/09/24 01:47	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/09/24 01:47	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/09/24 01:47	1
Styrene	ND		5.0	0.30	ug/L			07/09/24 01:47	1
Tetrachloroethene	ND		1.0	0.30	ug/L			07/09/24 01:47	1
Toluene	ND		1.0	0.30	ug/L			07/09/24 01:47	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/09/24 01:47	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/09/24 01:47	1
Trichloroethene	ND		1.0	0.30	ug/L			07/09/24 01:47	1
Vinyl chloride	ND	^c cn	1.0	0.30	ug/L			07/09/24 01:47	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/09/24 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*80 - 120*		*07/09/24 01:47*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*07/09/24 01:47*	*1*
Dibromofluoromethane (Surr)	*114*		*80 - 120*		*07/09/24 01:47*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*07/09/24 01:47*	*1*

Default Detection Limits

Client: Groundwater Sciences Corporation
Job ID: 410-177862-1
Project/Site: fYNOP - SPBA Quarterly

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

Analyte	RL	MDL	Units
1,1,1,2-Tetrachloroethane	1.0	0.30	ug/L
1,1,1-Trichloroethane	1.0	0.30	ug/L
1,1,2,2-Tetrachloroethane	1.0	0.30	ug/L
1,1,2-Trichloroethane	1.0	0.30	ug/L
1,1-Dichloroethane	1.0	0.30	ug/L
1,1-Dichloroethene	1.0	0.30	ug/L
1,2-Dibromoethane (EDB)	1.0	0.20	ug/L
1,2-Dichloroethane	1.0	0.30	ug/L
1,2-Dichloropropane	1.0	0.30	ug/L
2-Butanone (MEK)	10	0.50	ug/L
2-Hexanone	10	0.85	ug/L
4-Methyl-2-pentanone (MIBK)	10	0.50	ug/L
Acetone	20	0.70	ug/L
Benzene	1.0	0.30	ug/L
Bromochloromethane	5.0	0.20	ug/L
Bromodichloromethane	1.0	0.20	ug/L
Bromoform	4.0	1.0	ug/L
Bromomethane	1.0	0.30	ug/L
Carbon disulfide	5.0	0.30	ug/L
Carbon tetrachloride	1.0	0.30	ug/L
Chlorobenzene	1.0	0.30	ug/L
Chloroethane	1.0	0.30	ug/L
Chloroform	1.0	0.30	ug/L
Chloromethane	2.0	0.55	ug/L
cis-1,2-Dichloroethene	1.0	0.30	ug/L
cis-1,3-Dichloropropene	1.0	0.20	ug/L
Dibromochloromethane	1.0	0.20	ug/L
Ethylbenzene	1.0	0.40	ug/L
Methyl tert-butyl ether	1.0	0.20	ug/L
Methylene Chloride	1.0	0.30	ug/L
Styrene	5.0	0.30	ug/L
Tetrachloroethene	1.0	0.30	ug/L
Toluene	1.0	0.30	ug/L
trans-1,2-Dichloroethene	2.0	0.70	ug/L
trans-1,3-Dichloropropene	1.0	0.20	ug/L
Trichloroethene	1.0	0.30	ug/L
Vinyl chloride	1.0	0.30	ug/L
Xylenes, Total	1.0	0.40	ug/L

Surrogate Summary

Client: Groundwater Sciences Corporation
Project/Site: fYNOP - SPBA Quarterly

Job ID: 410-177862-1

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)
410-177862-1	HD-MW-166-0/1-0	102	96	103	99
410-177862-2	HD-MW-167-0/1-0	100	95	105	90
410-177862-3	HD-MW-168-0/1-0	112	91	114	101
LCS 410-525820/4	Lab Control Sample	98	97	99	105
MB 410-525820/6	Method Blank	104	97	105	105

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 410-525820/6
Matrix: Water
Analysis Batch: 525820

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		1.0	0.30	ug/L			07/08/24 22:03	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/08/24 22:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/08/24 22:03	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/08/24 22:03	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/08/24 22:03	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/08/24 22:03	1
1,2-Dibromoethane (EDB)	ND		1.0	0.20	ug/L			07/08/24 22:03	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/08/24 22:03	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/08/24 22:03	1
2-Butanone (MEK)	ND		10	0.50	ug/L			07/08/24 22:03	1
2-Hexanone	ND		10	0.85	ug/L			07/08/24 22:03	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			07/08/24 22:03	1
Acetone	ND		20	0.70	ug/L			07/08/24 22:03	1
Benzene	ND		1.0	0.30	ug/L			07/08/24 22:03	1
Bromochloromethane	ND		5.0	0.20	ug/L			07/08/24 22:03	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/08/24 22:03	1
Bromoform	ND		4.0	1.0	ug/L			07/08/24 22:03	1
Bromomethane	ND		1.0	0.30	ug/L			07/08/24 22:03	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/08/24 22:03	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/08/24 22:03	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/08/24 22:03	1
Chloroethane	ND		1.0	0.30	ug/L			07/08/24 22:03	1
Chloroform	ND		1.0	0.30	ug/L			07/08/24 22:03	1
Chloromethane	ND		2.0	0.55	ug/L			07/08/24 22:03	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/08/24 22:03	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/08/24 22:03	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/08/24 22:03	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/08/24 22:03	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/08/24 22:03	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/08/24 22:03	1
Styrene	ND		5.0	0.30	ug/L			07/08/24 22:03	1
Tetrachloroethene	ND		1.0	0.30	ug/L			07/08/24 22:03	1
Toluene	ND		1.0	0.30	ug/L			07/08/24 22:03	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/08/24 22:03	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/08/24 22:03	1
Trichloroethene	ND		1.0	0.30	ug/L			07/08/24 22:03	1
Vinyl chloride	ND		1.0	0.30	ug/L			07/08/24 22:03	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/08/24 22:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*07/08/24 22:03*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*07/08/24 22:03*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*07/08/24 22:03*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*07/08/24 22:03*	*1*

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

Lab Sample ID: LCS 410-525820/4
Matrix: Water
Analysis Batch: 525820

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	20.0	19.0		ug/L		95	79 - 120
1,1,1-Trichloroethane	20.0	19.9		ug/L		100	73 - 120
1,1,2,2-Tetrachloroethane	20.0	18.8		ug/L		94	72 - 120
1,1,2-Trichloroethane	20.0	19.9		ug/L		99	80 - 120
1,1-Dichloroethane	20.0	21.3		ug/L		106	80 - 120
1,1-Dichloroethene	20.0	22.5		ug/L		112	80 - 131
1,2-Dibromoethane (EDB)	20.0	19.5		ug/L		97	77 - 120
1,2-Dichloroethane	20.0	20.8		ug/L		104	73 - 124
1,2-Dichloropropane	20.0	19.6		ug/L		98	80 - 120
2-Butanone (MEK)	250	209		ug/L		83	59 - 135
2-Hexanone	250	226		ug/L		91	56 - 135
4-Methyl-2-pentanone (MIBK)	250	215		ug/L		86	62 - 133
Acetone	250	257		ug/L		103	57 - 143
Benzene	20.0	20.3		ug/L		101	80 - 120
Bromochloromethane	20.0	20.1		ug/L		101	80 - 120
Bromodichloromethane	20.0	20.0		ug/L		100	71 - 120
Bromoform	20.0	17.2		ug/L		86	51 - 120
Bromomethane	20.0	14.3		ug/L		71	53 - 128
Carbon disulfide	20.0	21.3		ug/L		107	65 - 128
Carbon tetrachloride	20.0	21.0		ug/L		105	64 - 134
Chlorobenzene	20.0	20.3		ug/L		101	80 - 120
Chloroethane	20.0	16.7		ug/L		84	55 - 123
Chloroform	20.0	16.9		ug/L		85	80 - 120
Chloromethane	20.0	12.3		ug/L		62	39 - 134
cis-1,2-Dichloroethene	20.0	20.5		ug/L		102	80 - 125
cis-1,3-Dichloropropene	20.0	17.5		ug/L		87	75 - 120
Dibromochloromethane	20.0	19.6		ug/L		98	71 - 120
Ethylbenzene	20.0	19.7		ug/L		99	80 - 120
Methyl tert-butyl ether	20.0	17.6		ug/L		88	69 - 122
Methylene Chloride	20.0	22.6		ug/L		113	80 - 120
Styrene	20.0	18.6		ug/L		93	80 - 120
Tetrachloroethene	20.0	19.7		ug/L		99	80 - 120
Toluene	20.0	20.8		ug/L		104	80 - 120
trans-1,2-Dichloroethene	20.0	21.4		ug/L		107	80 - 126
trans-1,3-Dichloropropene	20.0	19.7		ug/L		98	67 - 120
Trichloroethene	20.0	20.1		ug/L		101	80 - 120
Vinyl chloride	20.0	13.0		ug/L		65	56 - 120
Xylenes, Total	60.0	58.1		ug/L		97	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*

GC/MS VOA

Analysis Batch: 525820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-177862-1	HD-MW-166-0/1-0	Total/NA	Water	8260D	
410-177862-2	HD-MW-167-0/1-0	Total/NA	Water	8260D	
410-177862-3	HD-MW-168-0/1-0	Total/NA	Water	8260D	
MB 410-525820/6	Method Blank	Total/NA	Water	8260D	
LCS 410-525820/4	Lab Control Sample	Total/NA	Water	8260D	

Lab Chronicle

Client: Groundwater Sciences Corporation
Job ID: 410-177862-1
Project/Site: fYNOP - SPBA Quarterly

Client Sample ID: HD-MW-166-0/1-0
Lab Sample ID: 410-177862-1

Date Collected: 06/26/24 09:15
Matrix: Water
Date Received: 06/27/24 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	525820	K4WN	ELLE	07/09/24 01:02

Client Sample ID: HD-MW-167-0/1-0
Lab Sample ID: 410-177862-2

Date Collected: 06/26/24 09:05
Matrix: Water
Date Received: 06/27/24 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	525820	K4WN	ELLE	07/09/24 01:24

Client Sample ID: HD-MW-168-0/1-0
Lab Sample ID: 410-177862-3

Date Collected: 06/26/24 09:00
Matrix: Water
Date Received: 06/27/24 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	525820	K4WN	ELLE	07/09/24 01:47

Laboratory References:

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

Accreditation/Certification Summary

Client: Groundwater Sciences Corporation
Job ID: 410-177862-1
Project/Site: fYNOP - SPBA Quarterly

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

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

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-31-25

Method Summary

Client: Groundwater Sciences Corporation
Job ID: 410-177862-1
Project/Site: fYNOP - SPBA Quarterly

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Groundwater Sciences Corporation
Job ID: 410-177862-1
Project/Site: fYNOP - SPBA Quarterly

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-177862-1	HD-MW-166-0/1-0	Water	06/26/24 09:15	06/27/24 14:53
410-177862-2	HD-MW-167-0/1-0	Water	06/26/24 09:05	06/27/24 14:53
410-177862-3	HD-MW-168-0/1-0	Water	06/26/24 09:00	06/27/24 14:53

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Instrument ID: 9355 Analysis Batch Number: 486676

Lab Sample ID: IC 410-486676/3 Client Sample ID:

Date Analyzed: 03/25/24 13:30 Lab File ID: YM25X02.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	3.03	Incomplete Integration	K4WN	03/25/24 19:31
Acetonitrile	3.71	Incomplete Integration	K4WN	03/25/24 19:31
t-Butyl alcohol-d10 (IS)	3.95	Incomplete Integration	K4WN	03/25/24 19:31

Lab Sample ID: IC 410-486676/4 Client Sample ID:

Date Analyzed: 03/25/24 13:52 Lab File ID: YM25X03.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.70	Incomplete Integration	K4WN	03/25/24 19:32
t-Butyl alcohol-d10 (IS)	3.95	Incomplete Integration	K4WN	03/25/24 19:33

Lab Sample ID: IC 410-486676/5 Client Sample ID:

Date Analyzed: 03/25/24 14:14 Lab File ID: YM25X04.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.90	Incomplete Integration	K4WN	03/25/24 19:33
Acetonitrile	3.69	Incomplete Integration	K4WN	03/25/24 19:33
t-Butyl alcohol-d10 (IS)	3.95	Incomplete Integration	K4WN	03/25/24 19:33

Lab Sample ID: IC 410-486676/6 Client Sample ID:

Date Analyzed: 03/25/24 14:37 Lab File ID: YM25X05.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.90	Incomplete Integration	K4WN	03/25/24 19:34
Acetonitrile	3.69	Incomplete Integration	K4WN	03/25/24 19:34
t-Butyl alcohol-d10 (IS)	3.95	Incomplete Integration	K4WN	03/25/24 19:34

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Instrument ID: 9355 Analysis Batch Number: 486676

Lab Sample ID: IC 410-486676/7 Client Sample ID:

Date Analyzed: 03/25/24 14:59 Lab File ID: YM25X06.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	3.02	Incomplete Integration	K4WN	03/25/24 19:34
Acetonitrile	3.69	Incomplete Integration	K4WN	03/25/24 19:35
t-Butyl alcohol-d10 (IS)	3.97	Incomplete Integration	K4WN	03/25/24 19:35

Lab Sample ID: IC 410-486676/8 Client Sample ID:

Date Analyzed: 03/25/24 15:21 Lab File ID: YM25X07.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.90	Incomplete Integration	K4WN	03/25/24 19:35
Acetonitrile	3.68	Incomplete Integration	K4WN	03/25/24 19:35
t-Butyl alcohol-d10 (IS)	3.95	Incomplete Integration	K4WN	03/25/24 19:36

Lab Sample ID: IC 410-486676/12 Client Sample ID:

Date Analyzed: 03/25/24 16:50 Lab File ID: YM25X11.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorofluoromethane	2.75	Incomplete Integration	K4WN	03/25/24 19:46
Acetone	3.35	Incomplete Integration	K4WN	03/25/24 19:46
Carbon disulfide	3.64	Incomplete Integration	K4WN	03/25/24 19:47
Allyl chloride	3.78	Incomplete Integration	K4WN	03/25/24 19:47
t-Butyl alcohol-d10 (IS)	3.95	Incomplete Integration	K4WN	03/25/24 19:47
2-Butanone (MEK)	5.86	Incomplete Integration	K4WN	03/25/24 19:47
n-Butanol	7.87	Incomplete Integration	K4WN	03/25/24 19:47
1,4-Dioxane	8.42	Incomplete Integration	K4WN	03/25/24 19:47
2-Hexanone	10.33	Incomplete Integration	K4WN	03/25/24 19:48

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Instrument ID: 9355 Analysis Batch Number: 486676

Lab Sample ID: IC 410-486676/13 Client Sample ID:

Date Analyzed: 03/25/24 17:12 Lab File ID: YM25X12.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.15	Incomplete Integration	K4WN	03/25/24 19:48
n-Pentane	2.85	Incomplete Integration	K4WN	03/25/24 19:49
t-Butyl alcohol-d10 (IS)	3.95	Incomplete Integration	K4WN	03/25/24 19:49
n-Heptane	7.51	Incomplete Integration	K4WN	03/25/24 19:49

Lab Sample ID: IC 410-486676/15 Client Sample ID:

Date Analyzed: 03/25/24 17:56 Lab File ID: YM25X14.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol-d10 (IS)	3.96	Incomplete Integration	K4WN	03/25/24 19:52
Methyl acrylate	5.98	Incomplete Integration	K4WN	03/25/24 19:52
1,4-Dioxane	8.40	Incomplete Integration	K4WN	03/25/24 19:52

Lab Sample ID: ICIS 410-486676/16 Client Sample ID:

Date Analyzed: 03/25/24 18:19 Lab File ID: YM25X15.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.85	Incomplete Integration	K4WN	03/25/24 19:53
2-Propanol	3.50	Incomplete Integration	K4WN	03/25/24 22:02
t-Butyl alcohol-d10 (IS)	3.94	Incomplete Integration	K4WN	03/25/24 19:53
1,4-Dioxane	8.40	Incomplete Integration	K4WN	03/25/24 19:53
Cyclohexanone	11.98	Incomplete Integration	K4WN	03/25/24 19:43

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Instrument ID: 9355 Analysis Batch Number: 486676

Lab Sample ID: IC 410-486676/17 Client Sample ID:

Date Analyzed: 03/25/24 18:41 Lab File ID: YM25X16.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.85	Incomplete Integration	K4WN	03/25/24 19:54
Acetone	3.35	Incomplete Integration	K4WN	03/25/24 19:54
2-Propanol	3.50	Incomplete Integration	K4WN	03/25/24 22:02
Methyl acetate	3.75	Incomplete Integration	K4WN	03/25/24 19:55
t-Butyl alcohol-d10 (IS)	3.95	Incomplete Integration	K4WN	03/25/24 19:55
Methyl acrylate	5.97	Incomplete Integration	K4WN	03/25/24 19:55
1,4-Dioxane	8.40	Incomplete Integration	K4WN	03/25/24 19:56

Lab Sample ID: IC 410-486676/18 Client Sample ID:

Date Analyzed: 03/25/24 19:03 Lab File ID: YM25X17.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.86	Incomplete Integration	K4WN	03/25/24 19:56
2-Propanol	3.50	Incomplete Integration	K4WN	03/25/24 22:03
t-Butyl alcohol-d10 (IS)	3.97	Incomplete Integration	K4WN	03/25/24 22:05
Methyl acrylate	5.98	Incomplete Integration	K4WN	03/25/24 19:57
1,4-Dioxane	8.41	Incomplete Integration	K4WN	03/25/24 19:58

Lab Sample ID: ICV 410-486676/20 Client Sample ID:

Date Analyzed: 03/25/24 19:47 Lab File ID: YM25X19.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol	4.08	Incomplete Integration	K4WN	03/25/24 22:18
Methyl acrylate	5.99	Incomplete Integration	K4WN	03/25/24 22:18
n-Butanol	7.84	Incomplete Integration	K4WN	03/25/24 22:18
1,4-Dioxane	8.41	Incomplete Integration	K4WN	03/25/24 22:18

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Instrument ID: 9355 Analysis Batch Number: 486676

Lab Sample ID: IC 410-486676/14 Client Sample ID:

Date Analyzed: 03/25/24 20:33 Lab File ID: YM25X21.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.05	Incomplete Integration	K4WN	03/25/24 21:57
t-Butyl alcohol-d10 (IS)	3.95	Incomplete Integration	K4WN	03/25/24 21:57
Methyl acrylate	5.99	Incomplete Integration	K4WN	03/25/24 21:57
1,4-Dioxane	8.41	Incomplete Integration	K4WN	03/25/24 21:57

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Instrument ID: 9355 Analysis Batch Number: 525820

Lab Sample ID: CCVIS 410-525820/3 Client Sample ID:

Date Analyzed: 07/08/24 20:55 Lab File ID: YL08X32.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	8.39	Incomplete Integration	K4WN	07/08/24 21:27

Lab Sample ID: 410-177862-1 Client Sample ID: HD-MW-166-0/1-0

Date Analyzed: 07/09/24 01:02 Lab File ID: YL08X43.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.97	Incomplete Integration	QD9U	07/09/24 14:46

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_4ppbEE_00576	04/01/24	03/25/24	DI Water, Lot DI 23226	1000 mL	MSV_CCV_2CEVE_00166	4 uL	2-Chloroethyl vinyl ether	4 ug/L
					MSV_CCV_CYC_00008	32 uL	Cyclohexanone	199.994 ug/L
					MSV_CCV_EE_00006	4 uL	Ethyl ether	4.00055 ug/L
					MSV_CCV_GASES_00760	2 uL	1,2-Dichloro-1,1,2-trifluoroethane	4 ug/L
							Bromomethane	4 ug/L
							Butadiene	4 ug/L
							Chloroethane	4 ug/L
							Chloromethane	4 ug/L
							Dichlorodifluoromethane	4 ug/L
							Dichlorofluoromethane	4 ug/L
							Trichlorofluoromethane	4 ug/L
							Vinyl chloride	4 ug/L
					MSV_CCV_OH_Sp_00009	4 uL	2-Ethylhexyl acrylate	3.9988 ug/L
							n-Butyl acrylate	4.00185 ug/L
							Ethyl acrylate	3.99968 ug/L
							Methyl acrylate	4.00056 ug/L
					MSV_CCV_VOC#1_00174	4 uL	1,1,1,2-Tetrachloroethane	4 ug/L
							1,1,1-Trichloroethane	4 ug/L
							1,1,2,2-Tetrachloroethane	4 ug/L
							1,1,2-Trichloroethane	4 ug/L
							1,1-Dichloroethane	4 ug/L
							1,1-Dichloroethene	4 ug/L
							1,1-Dichloropropene	4 ug/L
							1,2,3-Trichlorobenzene	4 ug/L
							1,2,3-Trichloropropane	4 ug/L
							1,2,4-Trichlorobenzene	4 ug/L
							1,2,4-Trimethylbenzene	4 ug/L
							1,2-Dibromo-3-Chloropropane	4 ug/L
							1,2-Dibromoethane (EDB)	4 ug/L
							1,2-Dichlorobenzene	4 ug/L
							1,2-Dichloroethane	4 ug/L
							1,2-Dichloropropane	4 ug/L
							1,3,5-Trimethylbenzene	4 ug/L
							1,3-Dichlorobenzene	4 ug/L
							1,3-Dichloropropane	4 ug/L
							1,4-Dichlorobenzene	4 ug/L
							2,2-Dichloropropane	4 ug/L
							2-Chlorotoluene	4 ug/L
							4-Chlorotoluene	4 ug/L
							4-Isopropyltoluene	4 ug/L
							Benzene	4 ug/L
							Bromobenzene	4 ug/L
							Bromochloromethane	4 ug/L
							Bromodichloromethane	4 ug/L
							Bromoform	4 ug/L

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	4 ug/L
							Chlorobenzene	4 ug/L
							Chloroform	4 ug/L
							cis-1,2-Dichloroethene	4 ug/L
							cis-1,3-Dichloropropene	4 ug/L
							Dibromochloromethane	4 ug/L
							Dibromomethane	4 ug/L
							Ethylbenzene	4 ug/L
							Hexachlorobutadiene	4 ug/L
							Isopropylbenzene	4 ug/L
							m-Xylene & p-Xylene	8 ug/L
							Methylene Chloride	4 ug/L
							n-Butylbenzene	4 ug/L
							N-Propylbenzene	4 ug/L
							Naphthalene	4 ug/L
							o-Xylene	4 ug/L
							sec-Butylbenzene	4 ug/L
							Styrene	4 ug/L
							tert-Butylbenzene	4 ug/L
							Tetrachloroethene	4 ug/L
							Toluene	4 ug/L
							trans-1,2-Dichloroethene	4 ug/L
							trans-1,3-Dichloropropene	4 ug/L
							Trichloroethene	4 ug/L
							1,1,2-Trichloro-1,2,2-trifluoroethane	4 ug/L
							1,2,3-Trimethylbenzene	4 ug/L
							1,3,5-Trichlorobenzene	4 ug/L
							1,3-Diethylbenzene	4 ug/L
							1,4-Dioxane	50 ug/L
							1-Chlorohexane	4 ug/L
							2-Chloro-1,3-butadiene	4 ug/L
							2-ethoxy-2-methyl butane	4 ug/L
							2-Methyl-2-propanol	20 ug/L
							2-Methylnaphthalene	4 ug/L
							2-Nitropropane	20 ug/L
							3-Chloro-1-propene	4 ug/L
							Acrylonitrile	10 ug/L
							Benzyl chloride	4 ug/L
							Carbon disulfide	4 ug/L
							Cyclohexane	4 ug/L
							Ethyl methacrylate	4 ug/L
							Hexane	4 ug/L
							Iodomethane	4 ug/L
							Isobutyl alcohol	50 ug/L
							Isopropyl alcohol	20 ug/L
							Isopropyl ether	4 ug/L

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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		
							Methacrylonitrile	10 ug/L
							Methyl acetate	4 ug/L
							Methyl methacrylate	4 ug/L
							Methyl tert-butyl ether	4 ug/L
							Methylcyclohexane	4 ug/L
							n-Butanol	50 ug/L
							n-Heptane	4 ug/L
							o-diethylbenzene	4 ug/L
							p-Diethylbenzene	4 ug/L
							Pentane	4 ug/L
							Propionitrile	20 ug/L
							Tert-amyl methyl ether	4 ug/L
							Tert-butyl ethyl ether	4 ug/L
							Tetrahydrofuran	20 ug/L
							trans-1,4-Dichloro-2-butene	10 ug/L
					MSV_CCV_VOC#3_00170	3.2 uL	Acrolein	39.9966 ug/L
							2-Butanone (MEK)	8 ug/L
							2-Hexanone	8 ug/L
							4-Methyl-2-pentanone (MIBK)	8 ug/L
							Acetone	8 ug/L
.MSV_CCV_2CEVE_00166	04/09/24	03/10/24	Methanol, Lot EH471	5 mL	MSV_V_2CLEVE_00173	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
..MSV_V_2CLEVE_00173	04/30/26		Restek, Lot A0197472		(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
.MSV_CCV_CYC_00008	07/15/24	01/15/24	50/50 MeOH/Water, Lot EH471	200 mL	MSV_VCYC_STK_00011	8.605 mL	Cyclohexanone	6249.81 ug/mL
..MSV_VCYC_STK_00011	07/15/24	01/15/24	50/50 MeOH/Water, Lot EH471	10 mL	MSV_CYC_00009	1.4526 g	Cyclohexanone	145260 ug/mL
...MSV_CYC_00009	06/30/27		Chem Service, Lot 14568900		(Purchased Reagent)		Cyclohexanone	1 g/g
.MSV_CCV_EE_00006	05/07/24	11/07/23	Methanol, Lot EG095	50 mL	MSV_EE_MISCSK_00013	1.579 mL	Ethyl ether	1000.14 ug/mL
..MSV_EE_MISCSK_00013	05/07/24	11/07/23	Methanol, Lot EG095	10 mL	MSV_EE_Neat_00010	0.3167 g	Ethyl ether	31670 ug/mL
...MSV_EE_Neat_00010	05/30/27		Chem Service, Lot 14084700		(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_CCV_GASES_00760	04/01/24		Restek, Lot A0197586		(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL
							Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
.MSV_CCV_OH_Sp_00009	04/02/24	03/04/24	Methanol, Lot EG095	10 mL	MSV_V_Acr_Std_00005	2 mL	2-Ethylhexyl acrylate	999.7 ug/mL
							n-Butyl acrylate	1000.46 ug/mL
							Ethyl acrylate	999.919 ug/mL
							Methyl acrylate	1000.14 ug/mL
..MSV_V_Acr_Std_00005	07/14/24	01/14/24	Methanol, Lot EH471	10 mL	MSV_MStk_2E6A_00003	0.769 mL	2-Ethylhexyl acrylate	4998.5 ug/mL
					MSV_MStk_BAcr_00004	0.881 mL	n-Butyl acrylate	5002.32 ug/mL
					MSV_MStk_EtAc_00003	0.991 mL	Ethyl acrylate	4999.6 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_MStk_MAcr_00003	0.79 mL	Methyl acrylate	5000.7 ug/mL
...MSV_MStk_2E6A_00003	07/21/24	01/14/24	Methanol, Lot EH471	10 mL	MSV_2Eth6Acry_00001	0.65 g	2-Ethylhexyl acrylate	65000 ug/mL
....MSV_2Eth6Acry_00001	02/28/28		Sigma Aldrich, Lot MKCN1302		(Purchased Reagent)		2-Ethylhexyl acrylate	1 g/g
...MSV_MStk_BAcr_00004	07/14/24	01/14/24	Methanol, Lot EH471	10 mL	MSV_nButylAcr_00005	0.5678 g	n-Butyl acrylate	56780 ug/mL
....MSV_nButylAcr_00005	01/31/26		Chem Service, Lot 14061100		(Purchased Reagent)		n-Butyl acrylate	1 g/g
...MSV_MStk_EtAc_00003	07/14/24	01/14/24	Methanol, Lot EH471	10 mL	MSV_EthylAcry_00003	0.5045 g	Ethyl acrylate	50450 ug/mL
....MSV_EthylAcry_00003	03/31/26		Chem Service, Lot 14239800		(Purchased Reagent)		Ethyl acrylate	1 g/g
...MSV_MStk_MAcr_00003	07/14/24	01/14/24	Methanol, Lot EH471	10 mL	MSV_MethylAcr_00003	0.633 g	Methyl acrylate	63300 ug/mL
....MSV_MethylAcr_00003	01/31/26		Chem Service, Lot 14104500		(Purchased Reagent)		Methyl acrylate	1 g/g
.MSV_CCV_VOC#1_00174	04/09/24	03/10/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00171	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL

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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		
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00165	1 mL	1,1,2-Trichloro-1,2,2-trifluoroethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,3-Diethylbenzene	1000 ug/mL
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Chloro-1,3-butadiene	1000 ug/mL
							2-ethoxy-2-methyl butane	1000 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Nitropropane	5000 ug/mL
							3-Chloro-1-propene	1000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzyl chloride	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL
							Hexane	1000 ug/mL
							Iodomethane	1000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl alcohol	5000 ug/mL
							Isopropyl ether	1000 ug/mL
							Methacrylonitrile	2500 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							n-Butanol	12500 ug/mL
							n-Heptane	1000 ug/mL
							o-diethylbenzene	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							p-Diethylbenzene	1000 ug/mL
							Pentane	1000 ug/mL
							Propionitrile	5000 ug/mL
							Tert-amyl methyl ether	1000 ug/mL
							Tert-butyl ethyl ether	1000 ug/mL
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_MegaMIX#1_00171	04/30/24		Restek, Lot A0197556		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trimethylbenzene	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL
							2-Chlorotoluene	5000 ug/mL
							4-Chlorotoluene	5000 ug/mL
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL

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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		
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00165	04/30/24		Restek, Lot A0197578		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2,3-Trimethylbenzene	5000 ug/mL
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,3-Diethylbenzene	5000 ug/mL
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-ethoxy-2-methyl butane	5000 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							2-Methylnaphthalene	5000 ug/mL
							2-Nitropropane	25000 ug/mL
							3-Chloro-1-propene	5000 ug/mL
							Acrylonitrile	12500 ug/mL
							Benzyl chloride	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Hexane	5000 ug/mL
							Iodomethane	5000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Isopropyl ether	5000 ug/mL
							Methacrylonitrile	12500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
							n-Butanol	62500 ug/mL
							n-Heptane	5000 ug/mL
							o-diethylbenzene	5000 ug/mL
							p-Diethylbenzene	5000 ug/mL
							Pentane	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		
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	5000 ug/mL
							Tetrahydrofuran	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
.MSV_CCV_VOC#3_00170	04/09/24	03/10/24	Methanol, Lot EH471	5 mL	MSV_CCV_ACR_00016	0.5 mL	Acrolein	12498.9 ug/mL
					MSV_V_Ketones_00179	1 mL	2-Butanone (MEK)	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone (MIBK)	2500 ug/mL
							Acetone	2500 ug/mL
..MSV_CCV_ACR_00016	04/21/24	02/21/24	Methanol, Lot EH471	10 mL	MSV_VACR_STK_00038	9.185 mL	Acrolein	124989 ug/mL
...MSV_VACR_STK_00038	04/21/24	02/21/24	Methanol, Lot EH471	10 mL	MSV_ACROLEIN_00032	1.4648 g	Acrolein	136080 ug/mL
....MSV_ACROLEIN_00032	06/30/24	Chem Service, Lot 14703000			(Purchased Reagent)		Acrolein	0.929 g/g
..MSV_V_Ketones_00179	01/31/26	Restek, Lot A0193494			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_CCV_2CEVE_00168	04/23/24	03/24/24	Methanol, Lot EH471	5 mL	MSV_V_2CLEVE_00179	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
.MSV_V_2CLEVE_00179	04/30/26	Restek, Lot A0197472			(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
MSV_CCV_CYC_00008	07/15/24	01/15/24	50/50 MeOH/Water, Lot EH471	200 mL	MSV_VCYC_STK_00011	8.605 mL	Cyclohexanone	6249.81 ug/mL
.MSV_VCYC_STK_00011	07/15/24	01/15/24	50/50 MeOH/Water, Lot EH471	10 mL	MSV_CYC_00009	1.4526 g	Cyclohexanone	145260 ug/mL
..MSV_CYC_00009	06/30/27	Chem Service, Lot 14568900			(Purchased Reagent)		Cyclohexanone	1 g/g
MSV_CCV_EE_00006	05/07/24	11/07/23	Methanol, Lot EG095	50 mL	MSV_EE_MISCSK_00013	1.579 mL	Ethyl ether	1000.14 ug/mL
.MSV_EE_MISCSK_00013	05/07/24	11/07/23	Methanol, Lot EG095	10 mL	MSV_EE_Neat_00010	0.3167 g	Ethyl ether	31670 ug/mL
..MSV_EE_Neat_00010	05/30/27	Chem Service, Lot 14084700			(Purchased Reagent)		Ethyl ether	1 g/g
MSV_CCV_ETOH_00005	03/26/24	09/26/23	Methanol, Lot EG095	200 mL	MSV_VETOH_STK_00014	6.3 mL	Ethanol	12499.2 ug/mL
.MSV_VETOH_STK_00014	03/26/24	09/26/23	Methanol, Lot EG095	10 mL	MSV_EtOH_00047	3.968 g	Ethanol	396800 ug/mL
..MSV_EtOH_00047	04/30/28	Chem Service, Lot 14757000			(Purchased Reagent)		Ethanol	1 g/g
MSV_CCV_GASES_00760	04/01/24	Restek, Lot A0197586			(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL
							Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_CCV_GASES_00797	07/12/24	Restek, Lot A0212054			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 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_CCV_LKB_00009	06/19/24	12/21/23	Methanol, Lot EG095	50 mL	MSV_V34D1B_SK_00012	0.541 mL	3,4-Dichloro-1-butene	1000.53 ug/mL
					MSV_Vc14d_STK_00010	0.81 mL	cis-1,4-Dichloro-2-butene	1000.35 ug/mL
.MSV_V34D1B_SK_00012	06/19/24	12/21/23	Methanol, Lot EG095	10 mL	MSV_3,4DC1Be_00003	0.9247 g	3,4-Dichloro-1-butene	92470 ug/mL
..MSV_3,4DC1Be_00003	08/22/27		TCI, Lot W3RMJ		(Purchased Reagent)		3,4-Dichloro-1-butene	1 g/g
.MSV_Vc14d_STK_00010	06/19/24	12/19/23	Methanol, Lot EG095	10 mL	MSV_c14dcb_Nt_00004	0.65 g	cis-1,4-Dichloro-2-butene	61750 ug/mL
..MSV_c14dcb_Nt_00004	08/16/27		Aldrich, Lot SHBH4584V		(Purchased Reagent)		cis-1,4-Dichloro-2-butene	0.95 g/g
MSV_CCV_OH_Sp_00009	04/02/24	03/04/24	Methanol, Lot EG095	10 mL	MSV_V_Acr_Std_00005	2 mL	2-Ethylhexyl acrylate	999.7 ug/mL
							n-Butyl acrylate	1000.46 ug/mL
							Ethyl acrylate	999.919 ug/mL
							Methyl acrylate	1000.14 ug/mL
.MSV_V_Acr_Std_00005	07/14/24	01/14/24	Methanol, Lot EH471	10 mL	MSV_MStk_2E6A_00003	0.769 mL	2-Ethylhexyl acrylate	4998.5 ug/mL
					MSV_MStk_BAcr_00004	0.881 mL	n-Butyl acrylate	5002.32 ug/mL
					MSV_MStk_EtAc_00003	0.991 mL	Ethyl acrylate	4999.6 ug/mL
					MSV_MStk_MAcr_00003	0.79 mL	Methyl acrylate	5000.7 ug/mL
..MSV_MStk_2E6A_00003	07/21/24	01/14/24	Methanol, Lot EH471	10 mL	MSV_2Eth6Acry_00001	0.65 g	2-Ethylhexyl acrylate	65000 ug/mL
...MSV_2Eth6Acry_00001	02/28/28		Sigma Aldrich, Lot MKCN1302		(Purchased Reagent)		2-Ethylhexyl acrylate	1 g/g
..MSV_MStk_BAcr_00004	07/14/24	01/14/24	Methanol, Lot EH471	10 mL	MSV_nButylAcr_00005	0.5678 g	n-Butyl acrylate	56780 ug/mL
...MSV_nButylAcr_00005	01/31/26		Chem Service, Lot 14061100		(Purchased Reagent)		n-Butyl acrylate	1 g/g
..MSV_MStk_EtAc_00003	07/14/24	01/14/24	Methanol, Lot EH471	10 mL	MSV_EthylAcry_00003	0.5045 g	Ethyl acrylate	50450 ug/mL
...MSV_EthylAcry_00003	03/31/26		Chem Service, Lot 14239800		(Purchased Reagent)		Ethyl acrylate	1 g/g
..MSV_MStk_MAcr_00003	07/14/24	01/14/24	Methanol, Lot EH471	10 mL	MSV_MethylAcr_00003	0.633 g	Methyl acrylate	63300 ug/mL
...MSV_MethylAcr_00003	01/31/26		Chem Service, Lot 14104500		(Purchased Reagent)		Methyl acrylate	1 g/g
MSV_CCV_Penta_00046	03/30/24	03/01/24	Methanol, Lot EH822	1 mL	MSV_V_PentaCL_00044	200 uL	Pentachloroethane	1000 ug/mL
.MSV_V_PentaCL_00044	03/30/24		Restek, Lot A0184174		(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_CCV_V5ACE_00034	04/09/24	03/10/24	Methanol, Lot EH471	10 mL	MSV_AcetatesV_00069	1 mL	Acetonitrile	5000 ug/mL
							Ethyl acetate	1000 ug/mL
							Isopropyl acetate	1000 ug/mL
							n-Butyl acetate	1000 ug/mL
							n-Propyl acetate	1000 ug/mL
							Vinyl acetate	1000 ug/mL
.MSV_AcetatesV_00069	11/30/24		Restek, Lot A0197847		(Purchased Reagent)		Acetonitrile	50000 ug/mL
							Ethyl acetate	10000 ug/mL
							Isopropyl acetate	10000 ug/mL
							n-Butyl acetate	10000 ug/mL
							n-Propyl acetate	10000 ug/mL
							Vinyl acetate	10000 ug/mL
MSV_CCV_VOC#1_00176	04/23/24	03/24/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00173	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00168	1 mL	1,1,2-Trichloro-1,2,2-trifluoroethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,3-Diethylbenzene	1000 ug/mL
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Chloro-1,3-butadiene	1000 ug/mL
							2-ethoxy-2-methyl butane	1000 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Nitropropane	5000 ug/mL
							3-Chloro-1-propene	1000 ug/mL
							Acrylonitrile	2500 ug/mL
							Benzyl chloride	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL
							Hexane	1000 ug/mL
							Iodomethane	1000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl alcohol	5000 ug/mL
							Isopropyl ether	1000 ug/mL
							Methacrylonitrile	2500 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							n-Butanol	12500 ug/mL
							n-Heptane	1000 ug/mL
							o-diethylbenzene	1000 ug/mL
							p-Diethylbenzene	1000 ug/mL
							Pentane	1000 ug/mL
							Propionitrile	5000 ug/mL
							Tert-amyl methyl ether	1000 ug/mL
							Tert-butyl ethyl ether	1000 ug/mL
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
.MSV_MegaMIX#1_00173	04/30/24		Restek, Lot A0197556		(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

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trimethylbenzene	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL
							2-Chlorotoluene	5000 ug/mL
							4-Chlorotoluene	5000 ug/mL
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
.MSV_MegaMix#2_00168	04/23/24		Restek, Lot A0197578		(Purchased Reagent)		1,1,2-Trichloro-1,2,2-trifluoroethane	5000 ug/mL
							1,2,3-Trimethylbenzene	5000 ug/mL
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,3-Diethylbenzene	5000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-ethoxy-2-methyl butane	5000 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							2-Methylnaphthalene	5000 ug/mL
							2-Nitropropane	25000 ug/mL
							3-Chloro-1-propene	5000 ug/mL
							Acrylonitrile	12500 ug/mL
							Benzyl chloride	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Hexane	5000 ug/mL
							Iodomethane	5000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Isopropyl ether	5000 ug/mL
							Methacrylonitrile	12500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
							n-Butanol	62500 ug/mL
							n-Heptane	5000 ug/mL
							o-diethylbenzene	5000 ug/mL
							p-Diethylbenzene	5000 ug/mL
							Pentane	5000 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	5000 ug/mL
							Tetrahydrofuran	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_CCV_VOC#1_00191	08/06/24	07/07/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00186	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL

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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		
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00181	1 mL	Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_MegaMIX#1_00186	08/06/24		Restek, Lot A0197556		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,2-Dibromoethane (EDB)	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							Benzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Methylene Chloride	5000 ug/mL
							Styrene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
.MSV_MegaMix#2_00181	08/06/24		Restek, Lot A0197578		(Purchased Reagent)		Carbon disulfide	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
MSV_CCV_VOC#3_00172	04/21/24	03/24/24	Methanol, Lot EH471	5 mL	MSV_CCV_ACR_00016	0.5 mL	Acrolein	12498.9 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_Ketones_00182	1 mL	2-Butanone (MEK)	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone (MIBK)	2500 ug/mL
							Acetone	2500 ug/mL
.MSV_CCV_ACR_00016	04/21/24	02/21/24	Methanol, Lot EH471	10 mL	MSV_VACR_STK_00038	9.185 mL	Acrolein	124989 ug/mL
..MSV_VACR_STK_00038	04/21/24	02/21/24	Methanol, Lot EH471	10 mL	MSV_ACROLEIN_00032	1.4648 g	Acrolein	136080 ug/mL
...MSV_ACROLEIN_00032	06/30/24	Chem Service, Lot 14703000			(Purchased Reagent)		Acrolein	0.929 g/g
.MSV_V_Ketones_00182	01/31/26	Restek, Lot A0193494			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_CCV_VOC#3_00187	08/06/24	07/07/24	Methanol, Lot EH471	5 mL	MSV_V_Ketones_00171	1 mL	2-Butanone (MEK)	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone (MIBK)	2500 ug/mL
							Acetone	2500 ug/mL
.MSV_V_Ketones_00171	01/31/26	Restek, Lot A0193494			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_HP20_ISO_00010	09/19/24	03/25/24	Methanol, Lot EH822	10 mL	MSV_Cus826_IS_00774	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_00774	04/30/26	Restek, Lot A0197488			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_HP20_ISSS_00129	09/19/24	03/19/24	Methanol, Lot EH235	10 mL	MSV_8260_SS_01153	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_00774	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_01153	10/31/28	Restek, Lot A0203162			(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_00774	04/30/26	Restek, Lot A0197488			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_HP20_ISSS_00137	01/07/25	07/07/24	Methanol, Lot EH822	10 mL	MSV_Cus826_IS_00800	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
.MSV_Cus826_IS_00800	04/30/26		Restek, Lot A0197488		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_HP20_ISSS_00137	01/07/25	07/07/24	Methanol, Lot EH822	10 mL	MSV_8260_SS_01237	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_01237	01/31/29		Restek, Lot A0206374		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
MSV_LCS_Gases_00190	03/31/24	03/24/24	Methanol, Lot EH471	25 mL	MSV_QC_2K_GAS_00207	0.5 mL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00207	03/31/24		Restek, Lot A0184924		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LCS_Gases_00206	07/14/24	07/07/24	Methanol, Lot EH471	25 mL	MSV_QC_2K_GAS_00223	0.5 mL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00223	07/14/24		Restek, Lot A0184924		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LCS_VOC#1_00159	04/23/24	03/24/24	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00197	1 mL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							Benzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Methylene Chloride	40 ug/mL
							Styrene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00190	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00202	1 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00197	06/30/26		Restek, Lot A0198667		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,2-Dibromoethane (EDB)	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
.MSV_M_MIX2SEC_00190	04/30/26		Restek, Lot A0197573		(Purchased Reagent)		Carbon disulfide	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00202	04/30/25		Restek, Lot A0194631		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LCS_VOC#1_00175	08/06/24	07/07/24	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00207	1 mL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,2-Dibromoethane (EDB)	40 ug/mL
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							Benzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Methylene Chloride	40 ug/mL
							Styrene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00211	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00191	1 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 ug/mL
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00207	06/30/26		Restek, Lot A0198667		(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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
.MSV_M_MIX2SEC_00211	04/30/26		Restek, Lot A0197573		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00191	04/30/25		Restek, Lot A0194631		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
MSV_V_BFB_00016							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							divinyl benzene	
							Tentatively Identified Compound	
							Total BTEX	
							Total Diethylbenzene	
							Xylenes, Total	
					MSV_VBFB_STK_00011	0.098 mL	BFB	50.129 ug/mL
.MSV_VBFB_STK_00011	06/05/24	12/05/23	Methanol, Lot EG095	10 mL	MSV_4BFB_NEAT_00009	1.2788 g	BFB	127880 ug/mL
..MSV_4BFB_NEAT_00009	05/31/25		Chem Service, Lot 13775500		(Purchased Reagent)		BFB	1 g/g
MSV_V_BFB_00017							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							divinyl benzene	
							Tentatively Identified Compound	
							Total BTEX	
							Total Diethylbenzene	
							Xylenes, Total	
					MSV_VBFB_STK_00012	0.09 mL	BFB	501120 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV_VBFB_STK_00012	12/02/24	06/02/24	Methanol, Lot EH471	10 mL	MSV_4BFB_NEAT_00011	13920 g	BFB	1392000000 ug/mL
..MSV_4BFB_NEAT_00011	05/31/25	Chem Service, Lot 15267000			(Purchased Reagent)		BFB	1 g/g
MSV_V_SMFreon_00036	04/11/24	Restek, Lot A0184508			(Purchased Reagent)		2-Chloro-1,1,1-Trifluoroethane	2000 ug/mL
							Chlorodifluoromethane	2000 ug/mL
							Chlorotrifluoroethene	2000 ug/mL

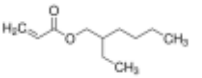
Reagent

MSV_2Eth6Acry_00001

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

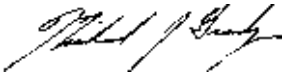
Certificate of Analysis

Product Name:
2-Ethylhexyl acrylate - 98%, contains ≥0.001-≤0.11% monomethyl ether hydroquinone as stabilizer



Product Number:	**290815**
Batch Number:	**MKCN1302**
Brand:	ALDRICH
CAS Number:	103-11-7
MDL Number:	MFCD00009495
Formula:	C11H20O2
Formula Weight:	184.28 g/mol
Quality Release Date:	01 SEP 2020

Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Purity (GC)	≥ 97.5 %	99.6 %
Stabilizer Monomethyl Ether Hydroquinone (MEHQ)	0.001 - 0.110 %	0.002 %



Michael Grady, Manager
Quality Control
Milwaukee, WI US

Reagent

MSV_3,4DC1Be_00003

Certificate of Analysis

08/23/2022(JST)

TOKYO CHEMICAL INDUSTRY CO.,LTD.
4-10-1 Nihonbashi-Honcho, Chuo-ku, Tokyo 103-0023 Japan

Chemical Name: 3,4-Dichloro-1-butene		
Product Number: D1072 CAS RN: 760-23-6	Lot: W3RMJ	

Tests	Results	Specifications
Appearance	Colorless clear liquid	Colorless to Almost colorless clear liquid
Purity(GC)	99.6 %	min. 98.0 %

TCI Lot numbers are 4-5 characters in length. Characters listed after the first 4-5 characters are control numbers for internal purpose only.
The contents of the specifications are subject to change without advance notice. The specification values displayed here are the most up to date values. There may be cases where the product labels display a different specification, however, the product quality still meets the latest specification.

Customer Service:

TCI AMERICA
Tel: +1-800-423-8616 / +1-503-283-1681
Fax: +1-888-520-1075 / +1-503-283-1987
E-mail: Sales-US@TCIchemicals.com

Takuya Nishioka
Quality Assurance Department Manager

Reagent

MSV_ACROLEIN_00032

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	14703000
DATE CERTIFIED	06/05/23
EXPIRATION DATE	06/30/24
CAS NUMBER	107-02-8
MOLECULAR FORMULA	C3H4O
MOLECULAR WEIGHT	56.06
STORAGE	Refrigerator storage (2 - 8 °C)
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.
NOTES	Contains water and hydroquinone as an inhibitor.

Analytical Test	Value
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE
% PURITY (GC/TCD)	92.9
% WATER (ELEMENTAL ANALYSIS)	1.5

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

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

Certified By:

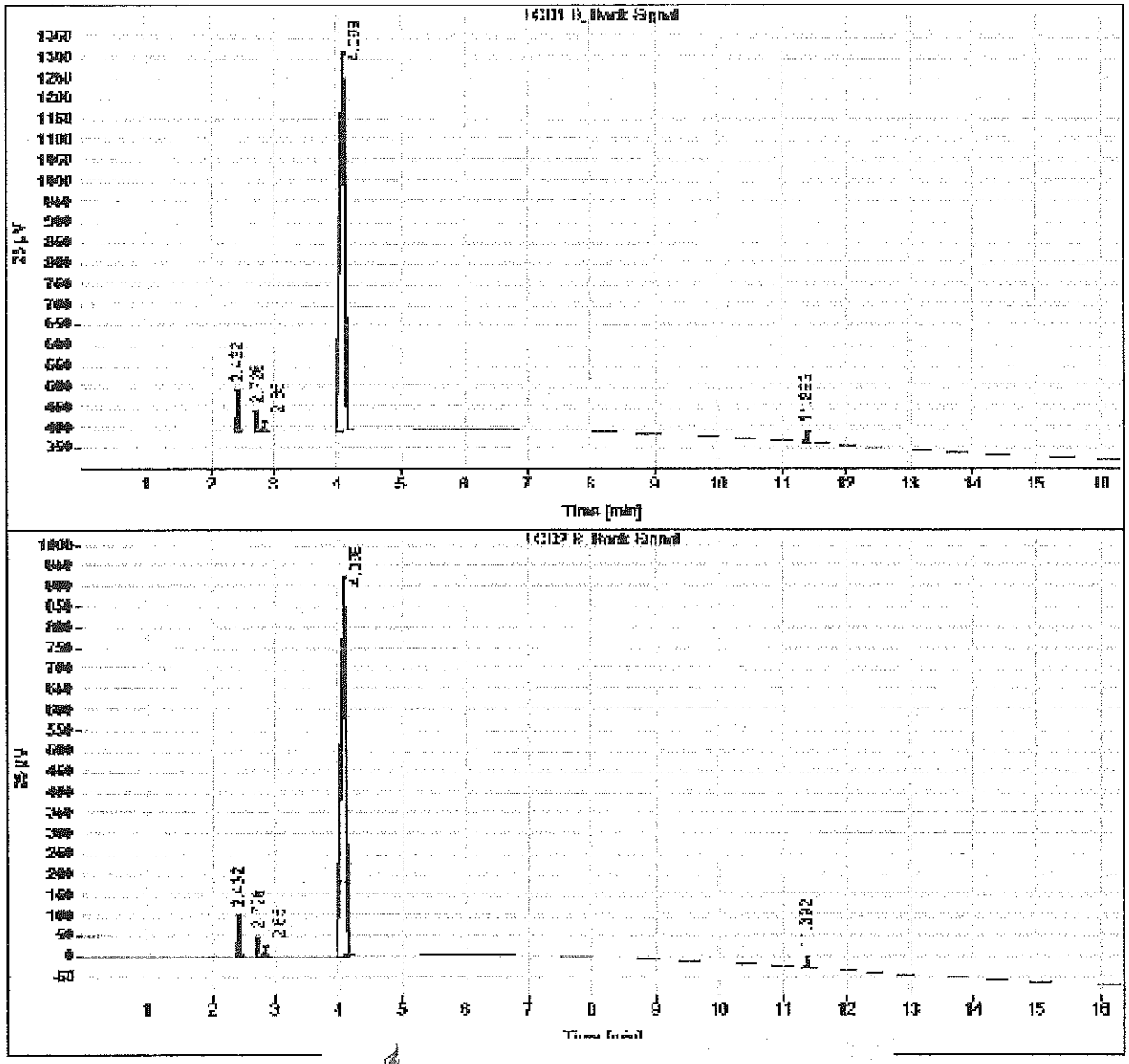
Alan Murray

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

Gas Chromatography / Thermal Conductivity Detector (GC/TCD)

CERTIFICATE OF ANALYSIS

Data file:	C:\CHEM32\1\DATA\2023 DATA\0823\SIG2023180.D		
Sample name:	Acrolein		
Instrument:	GC 1	**Sample type:**	Blank
Injection date:	8/8/2023 9:50:27 AM	**Location:**	
Acq. method:	GASBOMB_TCD.M	**Injection volume:**	1.0uL
Column name:	DB-624 (30m x 0.53mm x 3.0um)		



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

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

Signal: TCD1 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
2.432	BB	0.0377	216.5305	91.1579	4.0939
2.728	BV	0.0339	81.2745	36.7151	1.5366
2.850	VB	0.0402	33.4878	12.9466	0.6331
4.098	BV	0.0792	4915.1694	907.5270	92.9306
11.393	BB	0.0354	42.6132	18.8567	0.8057
		Sum	5289.0754		

Signal: TCD2 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
2.432	BB	0.0371	216.7301	91.9010	4.0973
2.728	BV	0.0331	81.3773	37.3389	1.5385
2.850	VB	0.0399	33.5394	12.9061	0.6341
4.098	BV	0.0798	4915.2534	908.6089	92.9241
11.392	BB	0.0352	42.6359	18.9616	0.8060
		Sum	5289.5361		

Reagent

MSV_c14dcb_Nt_00004

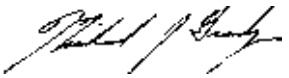
SIGMA-ALDRICH®
sigma-aldrich.com
3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
cis-1,4-Dichloro-2-butene - 95%

Product Number:	**195707**
Batch Number:	**SHBH4584V**
Brand:	ALDRICH
CAS Number:	1476-11-5
MDL Number:	MFCD00062950
Formula:	C4H6Cl2
Formula Weight:	125.00 g/mol
Storage Temperature:	Store at 2 - 8 °C
Quality Release Date:	30 AUG 2016

Test	Specification	Result
Appearance (Color)	Colorless to Light Yellow	Very Faint Yellow
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Purity (GC)	≥ 94.5 %	98.0 %



Michael Grady, Manager
Quality Control
Sheboygan Falls, WI US

Reagent

MSV_CCV_GASES_00760

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577488 **Lot No.:** A0197586

Description : Custom Gases Standard

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

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

Expiration Date : May 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,004.0 µg/mL	+/- 113.0947
2	Chloromethane (methyl chloride)	74-87-3	SHBM9611	99%	2,003.1 µg/mL	+/- 113.1749
3	Vinyl chloride	75-01-4	00015559	99%	2,001.3 µg/mL	+/- 112.7805
4	1,3-Butadiene	106-99-0	00015314	99%	2,002.1 µg/mL	+/- 112.9024
5	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,002.9 µg/mL	+/- 113.0693
6	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.9 µg/mL	+/- 112.6811
7	Dichlorofluoromethane (CFC-21)	75-43-4	14150400	90%	2,001.6 µg/mL	+/- 112.4412
8	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,020.0 µg/mL	+/- 113.4748
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	354-23-4	Q9B-64	99%	1,998.5 µg/mL	+/- 112.6823

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

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

Quality Confirmation Test

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.

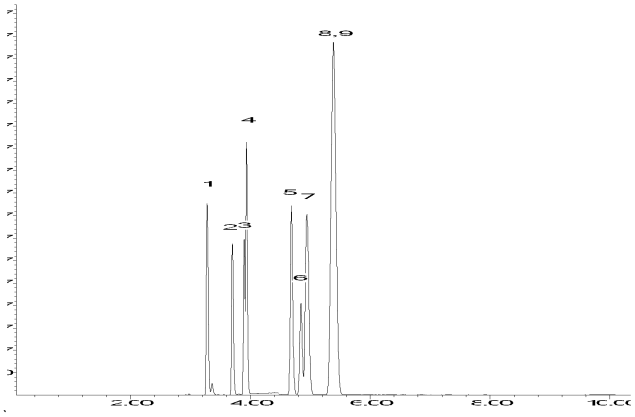
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



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.

Brittany Federinko - Operations Tech I

Date Mixed: 01-May-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-May-2023

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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_00800

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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.:** A0197488

Description : Custom 8260A IS Mix

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

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

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methyl-2-propanol-d10	53001-22-2	PR-29961	99%	12,587.5 µg/mL	+/- 156.5745
2	Fluorobenzene	462-06-6	BCBZ5549	99%	2,510.5 µg/mL	+/- 31.2436
3	Chlorobenzene-d5	3114-55-4	PR-29571	99%	2,507.0 µg/mL	+/- 31.2001
4	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,515.0 µg/mL	+/- 31.2996

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

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.)

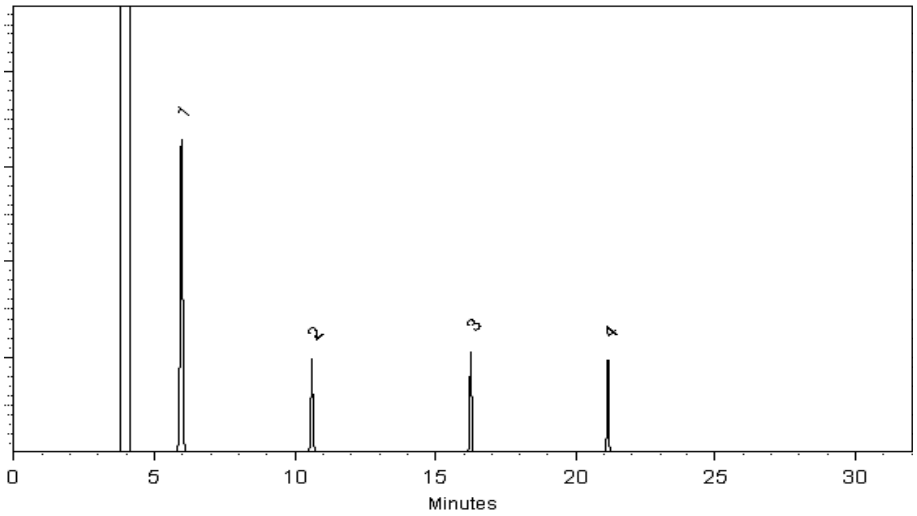
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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.

Daniel Wasson - Operations Tech I

Date Mixed: 26-Apr-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 02-May-2023

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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_EthylAcry_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

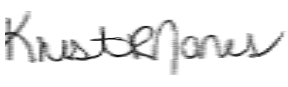
Ethyl acrylate

CATALOG NUMBER	N-11884-1G
LOT NUMBER	14239800
DATE CERTIFIED	03/24/23
EXPIRATION DATE	03/31/26
CAS NUMBER	140-88-5
MOLECULAR FORMULA	C5H8O2
MOLECULAR WEIGHT	100.12
STORAGE	Store at room temperature (20 - 25 °C).
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

Analytical Test	Value
% PURITY (GC/FID)	98.5
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE

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:



Kristin R Jones

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

PJLA Testing

PJLA Reference Material Producer

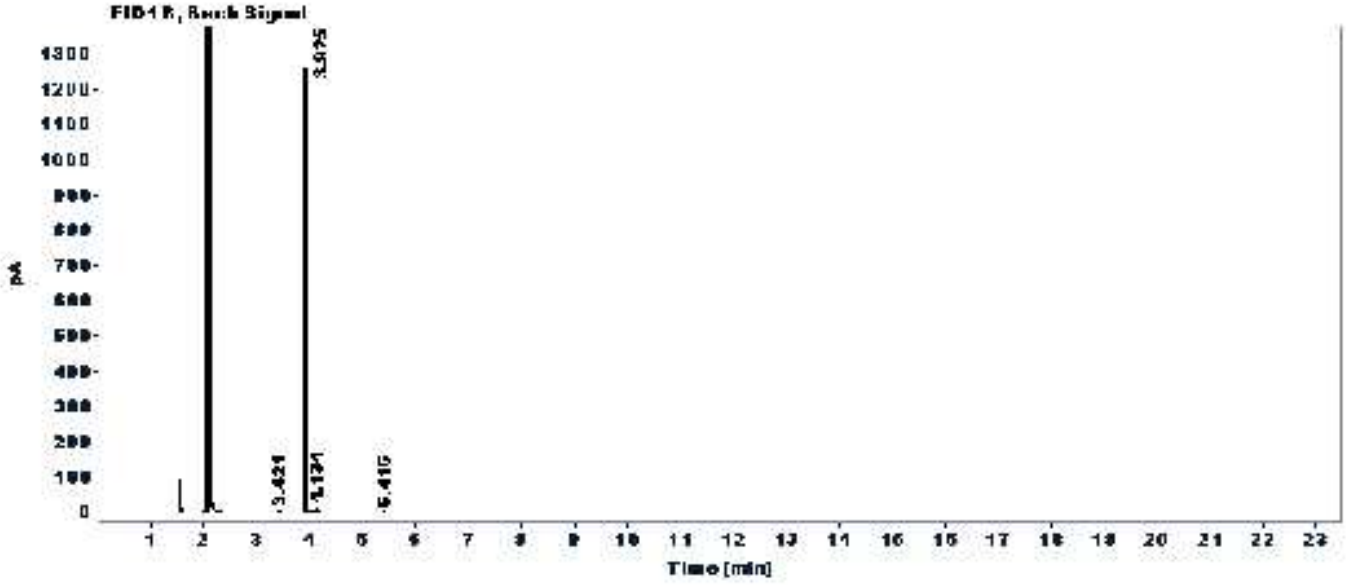
COA Form
Revision 3 (3/2015)

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

CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file:	C:\CHEM32\1\DATA\2023 DATA\0323\ethyl acrylate.D		
Sample name:	Ethyl acrylate		
Acq. method:	FRANNY-BACK.M		
Instrument:	GC3	**Location:**	203
Injection date:	3/24/2023 8:59:20 AM	**Injection Vol:**	1.000
Column name:	RTx-5MS (30m x 0.25mm x 0.5µm)	**# Of Injections:**	1



Signal: FID1 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
3.421	BB	0.0211	4.0827	3.1559	0.2618
3.925	BB	0.0194	1536.8994	1248.9259	98.5417
4.134	BB	0.0187	16.9484	14.3806	1.0867
5.416	BB	0.0197	1.7128	1.3592	0.1098
		Sum	1559.6433		

Reagent

MSV_M_MIX1SEC_00197

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 577493 **Lot No.:** A0198667

Description : Custom VOC MegaMix®.SEC #1 Standard

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

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

Expiration Date : June 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,1-Dichloroethene	75-35-4.SEC	13896500	99%	1,004.5 µg/mL	+/- 57.0049
2	Methylene chloride (dichloromethane)	75-09-2.SEC	FGM02	99%	1,004.4 µg/mL	+/- 56.9992
3	trans-1,2-Dichloroethene	156-60-5.SEC	L5QOH	99%	1,003.9 µg/mL	+/- 56.9751
4	1,1-Dichloroethane	75-34-3.SEC	1026.30-3	98%	1,006.0 µg/mL	+/- 57.0953
5	2,2-Dichloropropane	594-20-7.SEC	I7E8E	99%	1,005.2 µg/mL	+/- 57.0474
6	cis-1,2-Dichloroethene	156-59-2.SEC	YZO5O	99%	1,004.3 µg/mL	+/- 56.9952
7	Chloroform	67-66-3.SEC	1297547	99%	1,003.9 µg/mL	+/- 56.9736
8	Bromochloromethane	74-97-5.SEC	13547000	99%	1,004.4 µg/mL	+/- 57.0043
9	1,1,1-Trichloroethane	71-55-6.SEC	14183000	99%	1,005.0 µg/mL	+/- 57.0375
10	1,1-Dichloropropene	563-58-6.SEC	556500	99%	1,003.8 µg/mL	+/- 56.9691
11	Carbon tetrachloride	56-23-5.SEC	11466	99%	1,003.9 µg/mL	+/- 56.9751
12	1,2-Dichloroethane	107-06-2.SEC	00016165	99%	1,003.1 µg/mL	+/- 56.9268
13	Benzene	71-43-2.SEC	B28Y008	99%	1,005.0 µg/mL	+/- 57.0361
14	Trichloroethene	79-01-6.SEC	H04X050	99%	1,003.3 µg/mL	+/- 56.9410
15	1,2-Dichloropropane	78-87-5.SEC	ERRBI-RH	99%	1,003.7 µg/mL	+/- 56.9609
16	Bromodichloromethane	75-27-4.SEC	28128	99%	1,004.8 µg/mL	+/- 57.0261

17	Dibromomethane	74-95-3.SEC	MOKKJ	99%	1,004.5	µg/mL	+/- 57.0100
18	cis-1,3-Dichloropropene	10061-01-5.SEC	487OA	98%	1,004.8	µg/mL	+/- 57.0258
19	Toluene	108-88-3.SEC	YND2B-BD	99%	1,004.1	µg/mL	+/- 56.9839
20	trans-1,3-Dichloropropene	10061-02-6.SEC	ZDMSL	98%	1,006.1	µg/mL	+/- 57.0995
21	1,1,2-Trichloroethane	79-00-5.SEC	13547100	99%	1,003.8	µg/mL	+/- 56.9680
22	1,3-Dichloropropane	142-28-9.SEC	IQCON	99%	1,003.6	µg/mL	+/- 56.9544
23	Tetrachloroethene	127-18-4.SEC	F09W014	99%	1,003.9	µg/mL	+/- 56.9736
24	Dibromochloromethane	124-48-1.SEC	10234064	99%	1,003.9	µg/mL	+/- 56.9708
25	1,2-Dibromoethane (EDB)	106-93-4.SEC	050675P15E	99%	1,003.7	µg/mL	+/- 56.9646
26	Chlorobenzene	108-90-7.SEC	1161936	99%	1,004.0	µg/mL	+/- 56.9793
27	1,1,1,2-Tetrachloroethane	630-20-6.SEC	13789800	99%	1,003.4	µg/mL	+/- 56.9430
28	Ethylbenzene	100-41-4.SEC	XO5UA	99%	1,004.6	µg/mL	+/- 57.0111
29	m-Xylene	108-38-3.SEC	7ZV6F	99%	1,004.8	µg/mL	+/- 57.0225
30	p-Xylene	106-42-3.SEC	D6UOA	99%	1,004.6	µg/mL	+/- 57.0134
31	o-Xylene	95-47-6.SEC	UJ6RI	99%	1,005.4	µg/mL	+/- 57.0576
32	Styrene	100-42-5.SEC	QGQ7F	99%	1,003.8	µg/mL	+/- 56.9680
33	Isopropylbenzene (cumene)	98-82-8.SEC	7P24L	99%	1,005.3	µg/mL	+/- 57.0531
34	Bromoform	75-25-2.SEC	13723500	99%	1,003.9	µg/mL	+/- 56.9751
35	1,1,2,2-Tetrachloroethane	79-34-5.SEC	BCCD5088	99%	1,003.8	µg/mL	+/- 56.9680
36	1,2,3-Trichloropropane	96-18-4.SEC	6V2ED	99%	1,003.2	µg/mL	+/- 56.9339
37	n-Propylbenzene	103-65-1.SEC	XCGEC	99%	1,004.1	µg/mL	+/- 56.9861
38	Bromobenzene	108-86-1.SEC	8DKWJ	99%	1,004.2	µg/mL	+/- 56.9929
39	1,3,5-Trimethylbenzene	108-67-8.SEC	GI2SM	99%	1,004.3	µg/mL	+/- 56.9986
40	2-Chlorotoluene	95-49-8.SEC	BRHPM	99%	1,003.7	µg/mL	+/- 56.9612
41	4-Chlorotoluene	106-43-4.SEC	S5SKD	99%	1,004.6	µg/mL	+/- 57.0134
42	tert-Butylbenzene	98-06-6.SEC	D6OHC	99%	1,004.4	µg/mL	+/- 56.9998
43	1,2,4-Trimethylbenzene	95-63-6.SEC	JHZDD	99%	1,004.6	µg/mL	+/- 57.0111
44	sec-Butylbenzene	135-98-8.SEC	O4HRF	99%	1,005.1	µg/mL	+/- 57.0429
45	4-Isopropyltoluene (p-cymene)	99-87-6.SEC	13889300	98%	1,004.1	µg/mL	+/- 56.9877
46	1,3-Dichlorobenzene	541-73-1.SEC	ZA2ZI	99%	1,003.6	µg/mL	+/- 56.9580
47	1,4-Dichlorobenzene	106-46-7.SEC	J5GVD	99%	1,005.3	µg/mL	+/- 57.0517
48	n-Butylbenzene	104-51-8.SEC	MMPGA	99%	1,005.4	µg/mL	+/- 57.0599
49	1,2-Dichlorobenzene	95-50-1.SEC	R6QDM	99%	1,004.0	µg/mL	+/- 56.9779
50	1,2-Dibromo-3-chloropropane	96-12-8.SEC	Q135-105	99%	1,004.2	µg/mL	+/- 56.9929
51	1,2,4-Trichlorobenzene	120-82-1.SEC	3LYYC	99%	1,004.6	µg/mL	+/- 57.0145
52	Hexachlorobutadiene	87-68-3.SEC	13889400	97%	1,004.2	µg/mL	+/- 56.9930

53	Naphthalene	91-20-3.SEC	AM5NG	99%	1,002.7	µg/mL	+/- 56.9055
54	1,2,3-Trichlorobenzene	87-61-6.SEC	A0043055	99%	1,004.6	µg/mL	+/- 57.0156

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

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.)

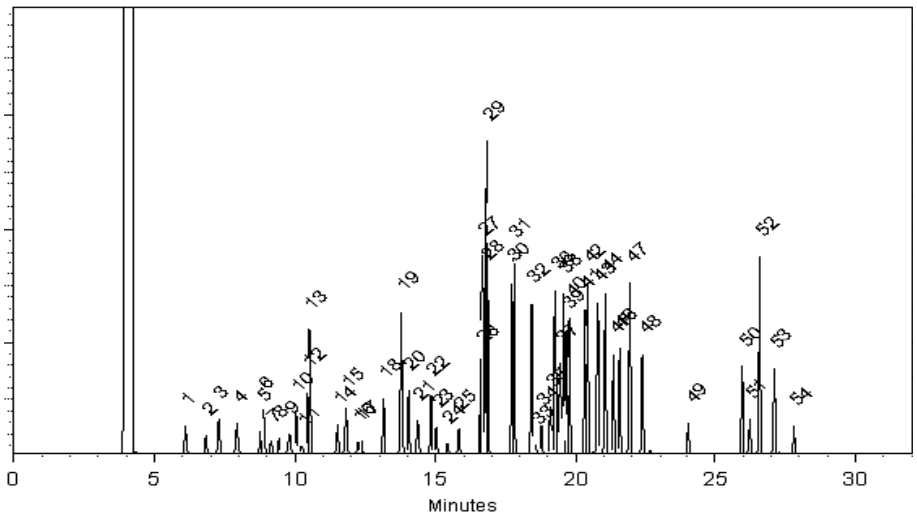
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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.

Jess Hoy - Operations Tech I

Date Mixed: 02-Jun-2023 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Jun-2023

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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_M_MIX1SEC_00207

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 577493 **Lot No.:** A0198667

Description : Custom VOC MegaMix®.SEC #1 Standard

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

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

Expiration Date : June 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,1-Dichloroethene	75-35-4.SEC	13896500	99%	1,004.5 µg/mL	+/- 57.0049
2	Methylene chloride (dichloromethane)	75-09-2.SEC	FGM02	99%	1,004.4 µg/mL	+/- 56.9992
3	trans-1,2-Dichloroethene	156-60-5.SEC	L5QOH	99%	1,003.9 µg/mL	+/- 56.9751
4	1,1-Dichloroethane	75-34-3.SEC	1026.30-3	98%	1,006.0 µg/mL	+/- 57.0953
5	2,2-Dichloropropane	594-20-7.SEC	I7E8E	99%	1,005.2 µg/mL	+/- 57.0474
6	cis-1,2-Dichloroethene	156-59-2.SEC	YZO5O	99%	1,004.3 µg/mL	+/- 56.9952
7	Chloroform	67-66-3.SEC	1297547	99%	1,003.9 µg/mL	+/- 56.9736
8	Bromochloromethane	74-97-5.SEC	13547000	99%	1,004.4 µg/mL	+/- 57.0043
9	1,1,1-Trichloroethane	71-55-6.SEC	14183000	99%	1,005.0 µg/mL	+/- 57.0375
10	1,1-Dichloropropene	563-58-6.SEC	556500	99%	1,003.8 µg/mL	+/- 56.9691
11	Carbon tetrachloride	56-23-5.SEC	11466	99%	1,003.9 µg/mL	+/- 56.9751
12	1,2-Dichloroethane	107-06-2.SEC	00016165	99%	1,003.1 µg/mL	+/- 56.9268
13	Benzene	71-43-2.SEC	B28Y008	99%	1,005.0 µg/mL	+/- 57.0361
14	Trichloroethene	79-01-6.SEC	H04X050	99%	1,003.3 µg/mL	+/- 56.9410
15	1,2-Dichloropropane	78-87-5.SEC	ERRBI-RH	99%	1,003.7 µg/mL	+/- 56.9609
16	Bromodichloromethane	75-27-4.SEC	28128	99%	1,004.8 µg/mL	+/- 57.0261

17	Dibromomethane	74-95-3.SEC	MOKKJ	99%	1,004.5	µg/mL	+/- 57.0100
18	cis-1,3-Dichloropropene	10061-01-5.SEC	487OA	98%	1,004.8	µg/mL	+/- 57.0258
19	Toluene	108-88-3.SEC	YND2B-BD	99%	1,004.1	µg/mL	+/- 56.9839
20	trans-1,3-Dichloropropene	10061-02-6.SEC	ZDMSL	98%	1,006.1	µg/mL	+/- 57.0995
21	1,1,2-Trichloroethane	79-00-5.SEC	13547100	99%	1,003.8	µg/mL	+/- 56.9680
22	1,3-Dichloropropane	142-28-9.SEC	IQCON	99%	1,003.6	µg/mL	+/- 56.9544
23	Tetrachloroethene	127-18-4.SEC	F09W014	99%	1,003.9	µg/mL	+/- 56.9736
24	Dibromochloromethane	124-48-1.SEC	10234064	99%	1,003.9	µg/mL	+/- 56.9708
25	1,2-Dibromoethane (EDB)	106-93-4.SEC	050675P15E	99%	1,003.7	µg/mL	+/- 56.9646
26	Chlorobenzene	108-90-7.SEC	1161936	99%	1,004.0	µg/mL	+/- 56.9793
27	1,1,1,2-Tetrachloroethane	630-20-6.SEC	13789800	99%	1,003.4	µg/mL	+/- 56.9430
28	Ethylbenzene	100-41-4.SEC	XO5UA	99%	1,004.6	µg/mL	+/- 57.0111
29	m-Xylene	108-38-3.SEC	7ZV6F	99%	1,004.8	µg/mL	+/- 57.0225
30	p-Xylene	106-42-3.SEC	D6UOA	99%	1,004.6	µg/mL	+/- 57.0134
31	o-Xylene	95-47-6.SEC	UJ6RI	99%	1,005.4	µg/mL	+/- 57.0576
32	Styrene	100-42-5.SEC	QGQ7F	99%	1,003.8	µg/mL	+/- 56.9680
33	Isopropylbenzene (cumene)	98-82-8.SEC	7P24L	99%	1,005.3	µg/mL	+/- 57.0531
34	Bromoform	75-25-2.SEC	13723500	99%	1,003.9	µg/mL	+/- 56.9751
35	1,1,2,2-Tetrachloroethane	79-34-5.SEC	BCCD5088	99%	1,003.8	µg/mL	+/- 56.9680
36	1,2,3-Trichloropropane	96-18-4.SEC	6V2ED	99%	1,003.2	µg/mL	+/- 56.9339
37	n-Propylbenzene	103-65-1.SEC	XCGEC	99%	1,004.1	µg/mL	+/- 56.9861
38	Bromobenzene	108-86-1.SEC	8DKWJ	99%	1,004.2	µg/mL	+/- 56.9929
39	1,3,5-Trimethylbenzene	108-67-8.SEC	GI2SM	99%	1,004.3	µg/mL	+/- 56.9986
40	2-Chlorotoluene	95-49-8.SEC	BRHPM	99%	1,003.7	µg/mL	+/- 56.9612
41	4-Chlorotoluene	106-43-4.SEC	S5SKD	99%	1,004.6	µg/mL	+/- 57.0134
42	tert-Butylbenzene	98-06-6.SEC	D6OHC	99%	1,004.4	µg/mL	+/- 56.9998
43	1,2,4-Trimethylbenzene	95-63-6.SEC	JHZDD	99%	1,004.6	µg/mL	+/- 57.0111
44	sec-Butylbenzene	135-98-8.SEC	O4HRF	99%	1,005.1	µg/mL	+/- 57.0429
45	4-Isopropyltoluene (p-cymene)	99-87-6.SEC	13889300	98%	1,004.1	µg/mL	+/- 56.9877
46	1,3-Dichlorobenzene	541-73-1.SEC	ZA2ZI	99%	1,003.6	µg/mL	+/- 56.9580
47	1,4-Dichlorobenzene	106-46-7.SEC	J5GVD	99%	1,005.3	µg/mL	+/- 57.0517
48	n-Butylbenzene	104-51-8.SEC	MMPGA	99%	1,005.4	µg/mL	+/- 57.0599
49	1,2-Dichlorobenzene	95-50-1.SEC	R6QDM	99%	1,004.0	µg/mL	+/- 56.9779
50	1,2-Dibromo-3-chloropropane	96-12-8.SEC	Q135-105	99%	1,004.2	µg/mL	+/- 56.9929
51	1,2,4-Trichlorobenzene	120-82-1.SEC	3LYYC	99%	1,004.6	µg/mL	+/- 57.0145
52	Hexachlorobutadiene	87-68-3.SEC	13889400	97%	1,004.2	µg/mL	+/- 56.9930

53	Naphthalene	91-20-3.SEC	AM5NG	99%	1,002.7	µg/mL	+/- 56.9055
54	1,2,3-Trichlorobenzene	87-61-6.SEC	A0043055	99%	1,004.6	µg/mL	+/- 57.0156

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

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.)

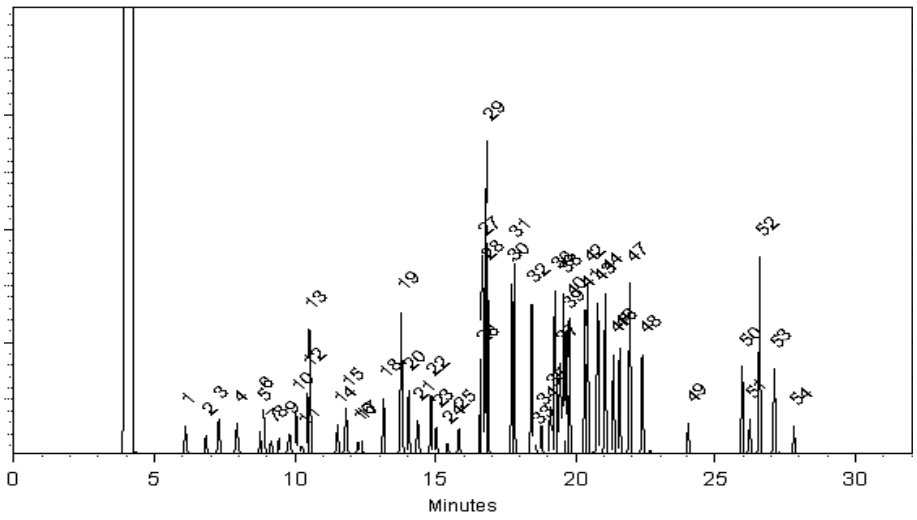
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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.

Jess Hoy - Operations Tech I

Date Mixed: 02-Jun-2023 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Jun-2023

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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_M_MIX2SEC_00190

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 577494 **Lot No.:** A0197573

Description : Custom VOC MegaMix®.SEC #2 Standard

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

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

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Pentane (C5)	109-66-0.SEC	FGH02	99%	1,006.7 µg/mL	+/- 16.4916
2	2-Propanol (isopropanol)	67-63-0.SEC	7B8ZE	99%	7,533.3 µg/mL	+/- 123.1844
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1.SEC	18342	99%	1,004.0 µg/mL	+/- 16.4479
4	tert-Butanol (TBA)	75-65-0.SEC	DI34O	99%	10,066.7 µg/mL	+/- 164.6093
5	Methyl acetate	79-20-9.SEC	LV27M	99%	1,006.0 µg/mL	+/- 16.4807
6	Iodomethane (methyl iodide)	74-88-4.SEC	Y25A027	99%	1,003.3 µg/mL	+/- 16.4370
7	Allyl chloride (3-chloropropene)	107-05-1.SEC	RD210329	99%	1,006.0 µg/mL	+/- 16.4807
8	Carbon disulfide	75-15-0.SEC	MKBL1376V	99%	1,002.7 µg/mL	+/- 16.4260
9	Acrylonitrile	107-13-1.SEC	V54AD	99%	5,030.0 µg/mL	+/- 82.2742
10	Methyl-tert-butyl ether (MTBE)	1634-04-4.SEC	CDCQG	99%	1,007.3 µg/mL	+/- 16.5025
11	n-Hexane (C6)	110-54-3.SEC	10188491	99%	1,009.3 µg/mL	+/- 16.5353
12	Diisopropyl ether (DIPE)	108-20-3.SEC	LL7TN-SH	99%	1,005.3 µg/mL	+/- 16.4697
13	Chloroprene (2-chloro-1,3-butadiene)	126-99-8	S230420RSR	99%	1,005.3 µg/mL	+/- 16.4697
14	Ethyl-tert-butyl ether (ETBE)	637-92-3.SEC	UCI5B	98%	1,006.8 µg/mL	+/- 16.4935
15	Propionitrile	107-12-0.SEC	B4ZPC	99%	7,542.0 µg/mL	+/- 123.3262
16	Methacrylonitrile	126-98-7	1012014	99%	7,562.0 µg/mL	+/- 123.6532

17	Isobutanol (2-Methyl-1-propanol)	78-83-1.SEC	YNG3K	99%	25,096.0	µg/mL	+/- 410.3677
18	Tetrahydrofuran	109-99-9.SEC	3NYHE	99%	5,033.3	µg/mL	+/- 82.3287
19	Cyclohexane	110-82-7.SEC	YADRA	99%	1,005.3	µg/mL	+/- 16.4697
20	1-Butanol	71-36-3.SEC	RSHAH	99%	50,062.7	µg/mL	+/- 818.6206
21	tert-Amyl methyl ether (TAME)	994-05-8.SEC	12075100	98%	1,005.8	µg/mL	+/- 16.4775
22	n-Heptane (C7)	142-82-5.SEC	TFHUC	99%	1,002.0	µg/mL	+/- 16.4151
23	tert-Amyl ethyl ether (TAEE)	919-94-8.SEC	11370700	99%	1,005.3	µg/mL	+/- 16.4697
24	Methylcyclohexane	108-87-2.SEC	Q02QG	99%	1,008.7	µg/mL	+/- 16.5243
25	Methyl methacrylate	80-62-6.SEC	G01X021	99%	1,003.3	µg/mL	+/- 16.4370
26	1,4-Dioxane	123-91-1.SEC	QHRWO	99%	25,144.0	µg/mL	+/- 411.1526
27	2-Nitropropane	79-46-9.SEC	F43IA	99%	1,003.3	µg/mL	+/- 16.4370
28	Ethyl methacrylate	97-63-2.SEC	AQSPO	99%	1,003.3	µg/mL	+/- 16.4370
29	1-Chlorohexane	544-10-5.SEC	13075400	99%	1,002.0	µg/mL	+/- 16.4151
30	trans-1,4-Dichloro-2-butene	110-57-6.SEC	RD230316RSR	96%	5,033.0	µg/mL	+/- 82.3226
31	1,2,3-Trimethylbenzene	526-73-8.SEC	13921700	98%	1,007.4	µg/mL	+/- 16.5042
32	1,3-Diethylbenzene	141-93-5.SEC	113566-1	99%	1,000.7	µg/mL	+/- 16.3933
33	Benzyl chloride	100-44-7.SEC	H29N03	99%	1,002.0	µg/mL	+/- 16.4151
34	1,4-Diethylbenzene	105-05-5.SEC	FBQ02	98%	1,004.8	µg/mL	+/- 16.4614
35	1,2-Diethylbenzene	135-01-3.SEC	BCBF3667V	99%	1,001.3	µg/mL	+/- 16.4042
36	1,3,5-Trichlorobenzene	108-70-3.SEC	I28U021	99%	1,007.5	µg/mL	+/- 16.5058
37	2-Methylnaphthalene	91-57-6.SEC	76023-1	99%	1,003.3	µg/mL	+/- 16.4370

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

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.)

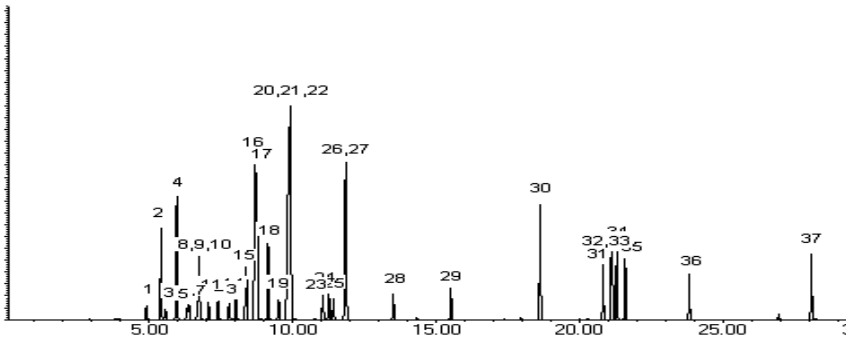
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
25.0 ml/min.

Inj. Vol
1µl



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.

Bryan Snyder - Operations Tech I

Date Mixed: 30-Apr-2023 **Balance Serial #** 1128342314

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 19-Jun-2023

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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_M_MIX2SEC_00211

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 577494 **Lot No.:** A0197573

Description : Custom VOC MegaMix®.SEC #2 Standard

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

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

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Pentane (C5)	109-66-0.SEC	FGH02	99%	1,006.7 µg/mL	+/- 16.4916
2	2-Propanol (isopropanol)	67-63-0.SEC	7B8ZE	99%	7,533.3 µg/mL	+/- 123.1844
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1.SEC	18342	99%	1,004.0 µg/mL	+/- 16.4479
4	tert-Butanol (TBA)	75-65-0.SEC	DI34O	99%	10,066.7 µg/mL	+/- 164.6093
5	Methyl acetate	79-20-9.SEC	LV27M	99%	1,006.0 µg/mL	+/- 16.4807
6	Iodomethane (methyl iodide)	74-88-4.SEC	Y25A027	99%	1,003.3 µg/mL	+/- 16.4370
7	Allyl chloride (3-chloropropene)	107-05-1.SEC	RD210329	99%	1,006.0 µg/mL	+/- 16.4807
8	Carbon disulfide	75-15-0.SEC	MKBL1376V	99%	1,002.7 µg/mL	+/- 16.4260
9	Acrylonitrile	107-13-1.SEC	V54AD	99%	5,030.0 µg/mL	+/- 82.2742
10	Methyl-tert-butyl ether (MTBE)	1634-04-4.SEC	CDCQG	99%	1,007.3 µg/mL	+/- 16.5025
11	n-Hexane (C6)	110-54-3.SEC	10188491	99%	1,009.3 µg/mL	+/- 16.5353
12	Diisopropyl ether (DIPE)	108-20-3.SEC	LL7TN-SH	99%	1,005.3 µg/mL	+/- 16.4697
13	Chloroprene (2-chloro-1,3-butadiene)	126-99-8	S230420RSR	99%	1,005.3 µg/mL	+/- 16.4697
14	Ethyl-tert-butyl ether (ETBE)	637-92-3.SEC	UCI5B	98%	1,006.8 µg/mL	+/- 16.4935
15	Propionitrile	107-12-0.SEC	B4ZPC	99%	7,542.0 µg/mL	+/- 123.3262
16	Methacrylonitrile	126-98-7	1012014	99%	7,562.0 µg/mL	+/- 123.6532

17	Isobutanol (2-Methyl-1-propanol)	78-83-1.SEC	YNG3K	99%	25,096.0	µg/mL	+/- 410.3677
18	Tetrahydrofuran	109-99-9.SEC	3NYHE	99%	5,033.3	µg/mL	+/- 82.3287
19	Cyclohexane	110-82-7.SEC	YADRA	99%	1,005.3	µg/mL	+/- 16.4697
20	1-Butanol	71-36-3.SEC	RSHAH	99%	50,062.7	µg/mL	+/- 818.6206
21	tert-Amyl methyl ether (TAME)	994-05-8.SEC	12075100	98%	1,005.8	µg/mL	+/- 16.4775
22	n-Heptane (C7)	142-82-5.SEC	TFHUC	99%	1,002.0	µg/mL	+/- 16.4151
23	tert-Amyl ethyl ether (TAEE)	919-94-8.SEC	11370700	99%	1,005.3	µg/mL	+/- 16.4697
24	Methylcyclohexane	108-87-2.SEC	Q02QG	99%	1,008.7	µg/mL	+/- 16.5243
25	Methyl methacrylate	80-62-6.SEC	G01X021	99%	1,003.3	µg/mL	+/- 16.4370
26	1,4-Dioxane	123-91-1.SEC	QHRWO	99%	25,144.0	µg/mL	+/- 411.1526
27	2-Nitropropane	79-46-9.SEC	F43IA	99%	1,003.3	µg/mL	+/- 16.4370
28	Ethyl methacrylate	97-63-2.SEC	AQSPO	99%	1,003.3	µg/mL	+/- 16.4370
29	1-Chlorohexane	544-10-5.SEC	13075400	99%	1,002.0	µg/mL	+/- 16.4151
30	trans-1,4-Dichloro-2-butene	110-57-6.SEC	RD230316RSR	96%	5,033.0	µg/mL	+/- 82.3226
31	1,2,3-Trimethylbenzene	526-73-8.SEC	13921700	98%	1,007.4	µg/mL	+/- 16.5042
32	1,3-Diethylbenzene	141-93-5.SEC	113566-1	99%	1,000.7	µg/mL	+/- 16.3933
33	Benzyl chloride	100-44-7.SEC	H29N03	99%	1,002.0	µg/mL	+/- 16.4151
34	1,4-Diethylbenzene	105-05-5.SEC	FBQ02	98%	1,004.8	µg/mL	+/- 16.4614
35	1,2-Diethylbenzene	135-01-3.SEC	BCBF3667V	99%	1,001.3	µg/mL	+/- 16.4042
36	1,3,5-Trichlorobenzene	108-70-3.SEC	I28U021	99%	1,007.5	µg/mL	+/- 16.5058
37	2-Methylnaphthalene	91-57-6.SEC	76023-1	99%	1,003.3	µg/mL	+/- 16.4370

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

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.)

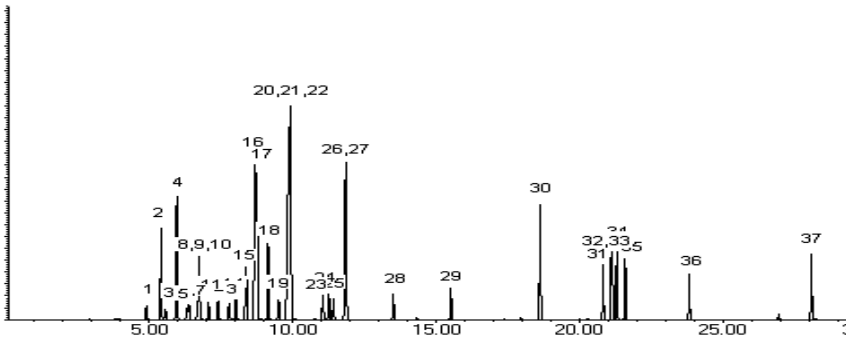
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
25.0 ml/min.

Inj. Vol
1µl



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.

Bryan Snyder - Operations Tech I

Date Mixed: 30-Apr-2023 **Balance Serial #** 1128342314

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 19-Jun-2023

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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_MegaMIX#1_00171

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 577486 **Lot No.:** A0197556

Description : Custom VOC MegaMix® #1 Standard

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

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

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,1-dichloroethene	75-35-4	SHBL4758	99%	5,031.3 µg/mL	+/- 283.3780
2	Methylene chloride (dichloromethane)	75-09-2	SHBP1417	99%	5,034.6 µg/mL	+/- 283.5646
3	trans-1,2-Dichloroethene	156-60-5	MKBH9850V	99%	5,035.6 µg/mL	+/- 283.6244
4	1,1-Dichloroethane	75-34-3	760200	99%	5,025.8 µg/mL	+/- 283.0682
5	2,2-Dichloropropane	594-20-7	RD220812	99%	5,043.3 µg/mL	+/- 284.0782
6	cis-1,2-Dichloroethene	156-59-2	MKCP7830	99%	5,049.7 µg/mL	+/- 284.4387
7	chloroform	67-66-3	SHBN8469	99%	5,026.5 µg/mL	+/- 283.1105
8	Bromochloromethane	74-97-5	230206JLM	99%	5,043.8 µg/mL	+/- 284.1063
9	1,1,1-trichloroethane	71-55-6	RD230130RSR	99%	5,017.8 µg/mL	+/- 282.6176
10	1,1-Dichloropropene	563-58-6	230131JLM	99%	5,043.1 µg/mL	+/- 284.0669
11	carbon tetrachloride	56-23-5	SHBP4875	99%	5,031.8 µg/mL	+/- 283.4062
12	1,2-Dichloroethane	107-06-2	SHBQ0693	99%	5,041.9 µg/mL	+/- 283.9799
13	Benzene	71-43-2	SHBM3620	99%	5,044.9 µg/mL	+/- 284.1683
14	Trichloroethene	79-01-6	SHBN3720	99%	5,031.3 µg/mL	+/- 283.3780
15	1,2-Dichloropropane	78-87-5	BCBR0882V	99%	5,036.8 µg/mL	+/- 283.6878
16	bromodichloromethane	75-27-4	MKCF8470	99%	5,023.9 µg/mL	+/- 282.9661

17	Dibromomethane	74-95-3	10233302	99%	5,047.7	µg/mL	+/-	284.3260
18	cis-1,3-Dichloropropene	10061-01-5	RD221227RSRB	99%	5,027.8	µg/mL	+/-	283.1844
19	Toluene	108-88-3	ED097-US	99%	5,047.6	µg/mL	+/-	284.3204
20	trans-1,3-Dichloropropene	10061-02-6	RD220228A	98%	5,026.1	µg/mL	+/-	283.0852
21	1,1,2-Trichloroethane	79-00-5	FGB01	99%	5,037.6	µg/mL	+/-	283.7335
22	1,3-Dichloropropane	142-28-9	BCCH5357	99%	5,042.5	µg/mL	+/-	284.0331
23	Tetrachloroethene	127-18-4	SHBJ7422	99%	5,031.8	µg/mL	+/-	283.4097
24	dibromochloromethane	124-48-1	MKCM8659	99%	5,024.5	µg/mL	+/-	282.9978
25	1,2-Dibromoethane (EDB)	106-93-4	BCCH7113	99%	5,044.2	µg/mL	+/-	284.1289
26	Chlorobenzene	108-90-7	SHBN6640	99%	5,022.1	µg/mL	+/-	282.8605
27	1,1,1,2-Tetrachloroethane	630-20-6	GC01	99%	5,043.6	µg/mL	+/-	284.0951
28	Ethylbenzene	100-41-4	094632L21G	99%	5,045.6	µg/mL	+/-	284.2077
29	m-Xylene	108-38-3	Q13G020	99%	5,048.8	µg/mL	+/-	284.3880
30	p-Xylene	106-42-3	10234437	99%	5,045.7	µg/mL	+/-	284.2134
31	o-Xylene	95-47-6	SHBN5105	98%	5,038.2	µg/mL	+/-	283.7898
32	Styrene	100-42-5	MKCQ3390	99%	5,041.8	µg/mL	+/-	283.9937
33	Isopropylbenzene (cumene)	98-82-8	Z20D022	99%	5,047.5	µg/mL	+/-	284.3148
34	bromoform	75-25-2	MKCR0680	99%	5,030.8	µg/mL	+/-	283.3533
35	1,1,2,2-Tetrachloroethane	79-34-5	OXACF	99%	5,031.6	µg/mL	+/-	283.3956
36	1,2,3-Trichloropropane	96-18-4	332900	99%	5,044.1	µg/mL	+/-	284.1232
37	n-Propylbenzene	103-65-1	G08M	98%	5,049.5	µg/mL	+/-	284.4246
38	Bromobenzene	108-86-1	MKCQ7174	99%	5,044.6	µg/mL	+/-	284.1514
39	1,3,5-Trimethylbenzene	108-67-8	BCCF4166	99%	5,049.4	µg/mL	+/-	284.4218
40	2-Chlorotoluene	95-49-8	235783M23T	99%	5,044.5	µg/mL	+/-	284.1458
41	4-Chlorotoluene	106-43-4	BCCG9286	99%	5,045.5	µg/mL	+/-	284.2021
42	tert-Butylbenzene	98-06-6	STBJ1937	99%	5,047.9	µg/mL	+/-	284.3373
43	1,2,4-Trimethylbenzene	95-63-6	MKCS3775	99%	5,047.3	µg/mL	+/-	284.3035
44	sec-Butylbenzene	135-98-8	MKCP2266	99%	5,046.3	µg/mL	+/-	284.2472
45	p-Isopropyltoluene (p-Cymene)	99-87-6	MKCR6143	99%	5,045.8	µg/mL	+/-	284.2190
46	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	5,036.8	µg/mL	+/-	283.6878
47	1,4-Dichlorobenzene	106-46-7	MKBS4401V	99%	5,037.8	µg/mL	+/-	283.7476
48	n-Butylbenzene	104-51-8	09804AE	99%	5,049.1	µg/mL	+/-	284.4049
49	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	5,030.9	µg/mL	+/-	283.3604
50	1,2-Dibromo-3-chloropropane	96-12-8	HBMVB	97%	5,047.8	µg/mL	+/-	284.3307
51	1,2,4-Trichlorobenzene	120-82-1	SHBM0526	99%	5,046.6	µg/mL	+/-	284.2641
52	Hexachlorobutadiene	87-68-3	X05J	99%	5,045.1	µg/mL	+/-	284.1796

53	Naphthalene	91-20-3	MKCH0219	99%	5,029.9	µg/mL	+/-	283.3234
54	1,2,3-Trichlorobenzene	87-61-6	MKBX7627V	99%	5,045.3	µg/mL	+/-	284.1908

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

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.)

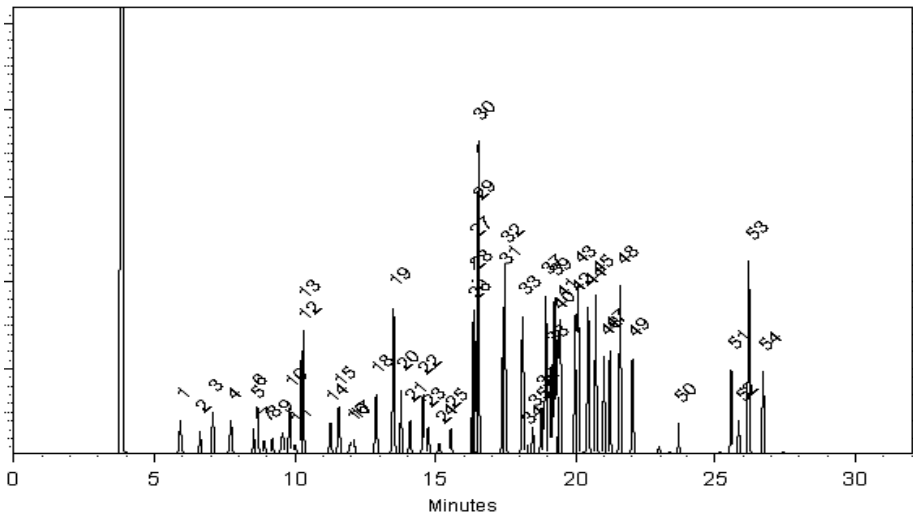
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



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

Nick Yaw - Operations Tech I

Date Mixed: 28-Apr-2023 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 05-May-2023

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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_MegaMIX#1_00173

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 577486 **Lot No.:** A0197556

Description : Custom VOC MegaMix® #1 Standard

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

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

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,1-dichloroethene	75-35-4	SHBL4758	99%	5,031.3 µg/mL	+/- 283.3780
2	Methylene chloride (dichloromethane)	75-09-2	SHBP1417	99%	5,034.6 µg/mL	+/- 283.5646
3	trans-1,2-Dichloroethene	156-60-5	MKBH9850V	99%	5,035.6 µg/mL	+/- 283.6244
4	1,1-Dichloroethane	75-34-3	760200	99%	5,025.8 µg/mL	+/- 283.0682
5	2,2-Dichloropropane	594-20-7	RD220812	99%	5,043.3 µg/mL	+/- 284.0782
6	cis-1,2-Dichloroethene	156-59-2	MKCP7830	99%	5,049.7 µg/mL	+/- 284.4387
7	chloroform	67-66-3	SHBN8469	99%	5,026.5 µg/mL	+/- 283.1105
8	Bromochloromethane	74-97-5	230206JLM	99%	5,043.8 µg/mL	+/- 284.1063
9	1,1,1-trichloroethane	71-55-6	RD230130RSR	99%	5,017.8 µg/mL	+/- 282.6176
10	1,1-Dichloropropene	563-58-6	230131JLM	99%	5,043.1 µg/mL	+/- 284.0669
11	carbon tetrachloride	56-23-5	SHBP4875	99%	5,031.8 µg/mL	+/- 283.4062
12	1,2-Dichloroethane	107-06-2	SHBQ0693	99%	5,041.9 µg/mL	+/- 283.9799
13	Benzene	71-43-2	SHBM3620	99%	5,044.9 µg/mL	+/- 284.1683
14	Trichloroethene	79-01-6	SHBN3720	99%	5,031.3 µg/mL	+/- 283.3780
15	1,2-Dichloropropane	78-87-5	BCBR0882V	99%	5,036.8 µg/mL	+/- 283.6878
16	bromodichloromethane	75-27-4	MKCF8470	99%	5,023.9 µg/mL	+/- 282.9661

17	Dibromomethane	74-95-3	10233302	99%	5,047.7	µg/mL	+/-	284.3260
18	cis-1,3-Dichloropropene	10061-01-5	RD221227RSRB	99%	5,027.8	µg/mL	+/-	283.1844
19	Toluene	108-88-3	ED097-US	99%	5,047.6	µg/mL	+/-	284.3204
20	trans-1,3-Dichloropropene	10061-02-6	RD220228A	98%	5,026.1	µg/mL	+/-	283.0852
21	1,1,2-Trichloroethane	79-00-5	FGB01	99%	5,037.6	µg/mL	+/-	283.7335
22	1,3-Dichloropropane	142-28-9	BCCH5357	99%	5,042.5	µg/mL	+/-	284.0331
23	Tetrachloroethene	127-18-4	SHBJ7422	99%	5,031.8	µg/mL	+/-	283.4097
24	dibromochloromethane	124-48-1	MKCM8659	99%	5,024.5	µg/mL	+/-	282.9978
25	1,2-Dibromoethane (EDB)	106-93-4	BCCH7113	99%	5,044.2	µg/mL	+/-	284.1289
26	Chlorobenzene	108-90-7	SHBN6640	99%	5,022.1	µg/mL	+/-	282.8605
27	1,1,1,2-Tetrachloroethane	630-20-6	GC01	99%	5,043.6	µg/mL	+/-	284.0951
28	Ethylbenzene	100-41-4	094632L21G	99%	5,045.6	µg/mL	+/-	284.2077
29	m-Xylene	108-38-3	Q13G020	99%	5,048.8	µg/mL	+/-	284.3880
30	p-Xylene	106-42-3	10234437	99%	5,045.7	µg/mL	+/-	284.2134
31	o-Xylene	95-47-6	SHBN5105	98%	5,038.2	µg/mL	+/-	283.7898
32	Styrene	100-42-5	MKCQ3390	99%	5,041.8	µg/mL	+/-	283.9937
33	Isopropylbenzene (cumene)	98-82-8	Z20D022	99%	5,047.5	µg/mL	+/-	284.3148
34	bromoform	75-25-2	MKCR0680	99%	5,030.8	µg/mL	+/-	283.3533
35	1,1,2,2-Tetrachloroethane	79-34-5	OXACF	99%	5,031.6	µg/mL	+/-	283.3956
36	1,2,3-Trichloropropane	96-18-4	332900	99%	5,044.1	µg/mL	+/-	284.1232
37	n-Propylbenzene	103-65-1	G08M	98%	5,049.5	µg/mL	+/-	284.4246
38	Bromobenzene	108-86-1	MKCQ7174	99%	5,044.6	µg/mL	+/-	284.1514
39	1,3,5-Trimethylbenzene	108-67-8	BCCF4166	99%	5,049.4	µg/mL	+/-	284.4218
40	2-Chlorotoluene	95-49-8	235783M23T	99%	5,044.5	µg/mL	+/-	284.1458
41	4-Chlorotoluene	106-43-4	BCCG9286	99%	5,045.5	µg/mL	+/-	284.2021
42	tert-Butylbenzene	98-06-6	STBJ1937	99%	5,047.9	µg/mL	+/-	284.3373
43	1,2,4-Trimethylbenzene	95-63-6	MKCS3775	99%	5,047.3	µg/mL	+/-	284.3035
44	sec-Butylbenzene	135-98-8	MKCP2266	99%	5,046.3	µg/mL	+/-	284.2472
45	p-Isopropyltoluene (p-Cymene)	99-87-6	MKCR6143	99%	5,045.8	µg/mL	+/-	284.2190
46	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	5,036.8	µg/mL	+/-	283.6878
47	1,4-Dichlorobenzene	106-46-7	MKBS4401V	99%	5,037.8	µg/mL	+/-	283.7476
48	n-Butylbenzene	104-51-8	09804AE	99%	5,049.1	µg/mL	+/-	284.4049
49	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	5,030.9	µg/mL	+/-	283.3604
50	1,2-Dibromo-3-chloropropane	96-12-8	HBMVB	97%	5,047.8	µg/mL	+/-	284.3307
51	1,2,4-Trichlorobenzene	120-82-1	SHBM0526	99%	5,046.6	µg/mL	+/-	284.2641
52	Hexachlorobutadiene	87-68-3	X05J	99%	5,045.1	µg/mL	+/-	284.1796

53	Naphthalene	91-20-3	MKCH0219	99%	5,029.9	µg/mL	+/-	283.3234
54	1,2,3-Trichlorobenzene	87-61-6	MKBX7627V	99%	5,045.3	µg/mL	+/-	284.1908

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

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.)

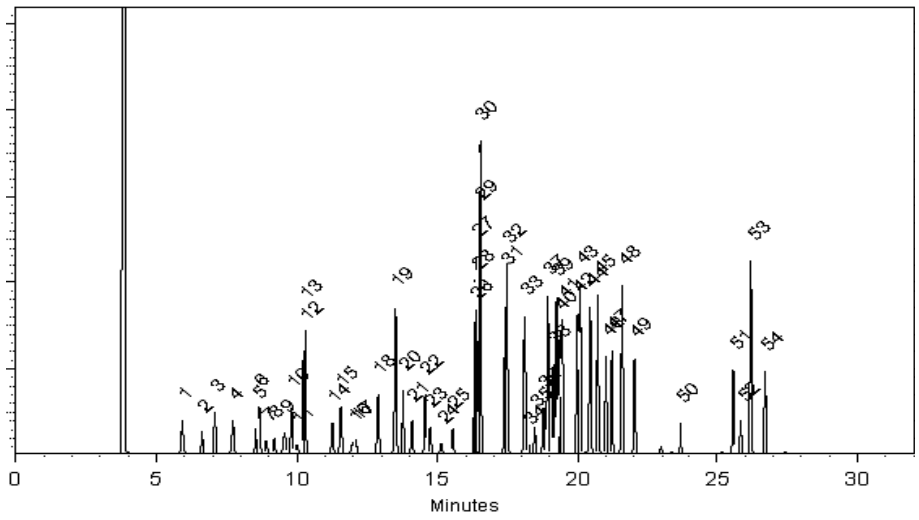
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



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

Nick Yaw - Operations Tech I

Date Mixed: 28-Apr-2023 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 05-May-2023

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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_MegaMIX#1_00186

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 577486 **Lot No.:** A0197556

Description : Custom VOC MegaMix® #1 Standard

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

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

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,1-dichloroethene	75-35-4	SHBL4758	99%	5,031.3 µg/mL	+/- 283.3780
2	Methylene chloride (dichloromethane)	75-09-2	SHBP1417	99%	5,034.6 µg/mL	+/- 283.5646
3	trans-1,2-Dichloroethene	156-60-5	MKBH9850V	99%	5,035.6 µg/mL	+/- 283.6244
4	1,1-Dichloroethane	75-34-3	760200	99%	5,025.8 µg/mL	+/- 283.0682
5	2,2-Dichloropropane	594-20-7	RD220812	99%	5,043.3 µg/mL	+/- 284.0782
6	cis-1,2-Dichloroethene	156-59-2	MKCP7830	99%	5,049.7 µg/mL	+/- 284.4387
7	chloroform	67-66-3	SHBN8469	99%	5,026.5 µg/mL	+/- 283.1105
8	Bromochloromethane	74-97-5	230206JLM	99%	5,043.8 µg/mL	+/- 284.1063
9	1,1,1-trichloroethane	71-55-6	RD230130RSR	99%	5,017.8 µg/mL	+/- 282.6176
10	1,1-Dichloropropene	563-58-6	230131JLM	99%	5,043.1 µg/mL	+/- 284.0669
11	carbon tetrachloride	56-23-5	SHBP4875	99%	5,031.8 µg/mL	+/- 283.4062
12	1,2-Dichloroethane	107-06-2	SHBQ0693	99%	5,041.9 µg/mL	+/- 283.9799
13	Benzene	71-43-2	SHBM3620	99%	5,044.9 µg/mL	+/- 284.1683
14	Trichloroethene	79-01-6	SHBN3720	99%	5,031.3 µg/mL	+/- 283.3780
15	1,2-Dichloropropane	78-87-5	BCBR0882V	99%	5,036.8 µg/mL	+/- 283.6878
16	bromodichloromethane	75-27-4	MKCF8470	99%	5,023.9 µg/mL	+/- 282.9661

17	Dibromomethane	74-95-3	10233302	99%	5,047.7	µg/mL	+/-	284.3260
18	cis-1,3-Dichloropropene	10061-01-5	RD221227RSRB	99%	5,027.8	µg/mL	+/-	283.1844
19	Toluene	108-88-3	ED097-US	99%	5,047.6	µg/mL	+/-	284.3204
20	trans-1,3-Dichloropropene	10061-02-6	RD220228A	98%	5,026.1	µg/mL	+/-	283.0852
21	1,1,2-Trichloroethane	79-00-5	FGB01	99%	5,037.6	µg/mL	+/-	283.7335
22	1,3-Dichloropropane	142-28-9	BCCH5357	99%	5,042.5	µg/mL	+/-	284.0331
23	Tetrachloroethene	127-18-4	SHBJ7422	99%	5,031.8	µg/mL	+/-	283.4097
24	dibromochloromethane	124-48-1	MKCM8659	99%	5,024.5	µg/mL	+/-	282.9978
25	1,2-Dibromoethane (EDB)	106-93-4	BCCH7113	99%	5,044.2	µg/mL	+/-	284.1289
26	Chlorobenzene	108-90-7	SHBN6640	99%	5,022.1	µg/mL	+/-	282.8605
27	1,1,1,2-Tetrachloroethane	630-20-6	GC01	99%	5,043.6	µg/mL	+/-	284.0951
28	Ethylbenzene	100-41-4	094632L21G	99%	5,045.6	µg/mL	+/-	284.2077
29	m-Xylene	108-38-3	Q13G020	99%	5,048.8	µg/mL	+/-	284.3880
30	p-Xylene	106-42-3	10234437	99%	5,045.7	µg/mL	+/-	284.2134
31	o-Xylene	95-47-6	SHBN5105	98%	5,038.2	µg/mL	+/-	283.7898
32	Styrene	100-42-5	MKCQ3390	99%	5,041.8	µg/mL	+/-	283.9937
33	Isopropylbenzene (cumene)	98-82-8	Z20D022	99%	5,047.5	µg/mL	+/-	284.3148
34	bromoform	75-25-2	MKCR0680	99%	5,030.8	µg/mL	+/-	283.3533
35	1,1,2,2-Tetrachloroethane	79-34-5	OXACF	99%	5,031.6	µg/mL	+/-	283.3956
36	1,2,3-Trichloropropane	96-18-4	332900	99%	5,044.1	µg/mL	+/-	284.1232
37	n-Propylbenzene	103-65-1	G08M	98%	5,049.5	µg/mL	+/-	284.4246
38	Bromobenzene	108-86-1	MKCQ7174	99%	5,044.6	µg/mL	+/-	284.1514
39	1,3,5-Trimethylbenzene	108-67-8	BCCF4166	99%	5,049.4	µg/mL	+/-	284.4218
40	2-Chlorotoluene	95-49-8	235783M23T	99%	5,044.5	µg/mL	+/-	284.1458
41	4-Chlorotoluene	106-43-4	BCCG9286	99%	5,045.5	µg/mL	+/-	284.2021
42	tert-Butylbenzene	98-06-6	STBJ1937	99%	5,047.9	µg/mL	+/-	284.3373
43	1,2,4-Trimethylbenzene	95-63-6	MKCS3775	99%	5,047.3	µg/mL	+/-	284.3035
44	sec-Butylbenzene	135-98-8	MKCP2266	99%	5,046.3	µg/mL	+/-	284.2472
45	p-Isopropyltoluene (p-Cymene)	99-87-6	MKCR6143	99%	5,045.8	µg/mL	+/-	284.2190
46	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	5,036.8	µg/mL	+/-	283.6878
47	1,4-Dichlorobenzene	106-46-7	MKBS4401V	99%	5,037.8	µg/mL	+/-	283.7476
48	n-Butylbenzene	104-51-8	09804AE	99%	5,049.1	µg/mL	+/-	284.4049
49	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	5,030.9	µg/mL	+/-	283.3604
50	1,2-Dibromo-3-chloropropane	96-12-8	HBMVB	97%	5,047.8	µg/mL	+/-	284.3307
51	1,2,4-Trichlorobenzene	120-82-1	SHBM0526	99%	5,046.6	µg/mL	+/-	284.2641
52	Hexachlorobutadiene	87-68-3	X05J	99%	5,045.1	µg/mL	+/-	284.1796

53	Naphthalene	91-20-3	MKCH0219	99%	5,029.9	µg/mL	+/-	283.3234
54	1,2,3-Trichlorobenzene	87-61-6	MKBX7627V	99%	5,045.3	µg/mL	+/-	284.1908

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

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.)

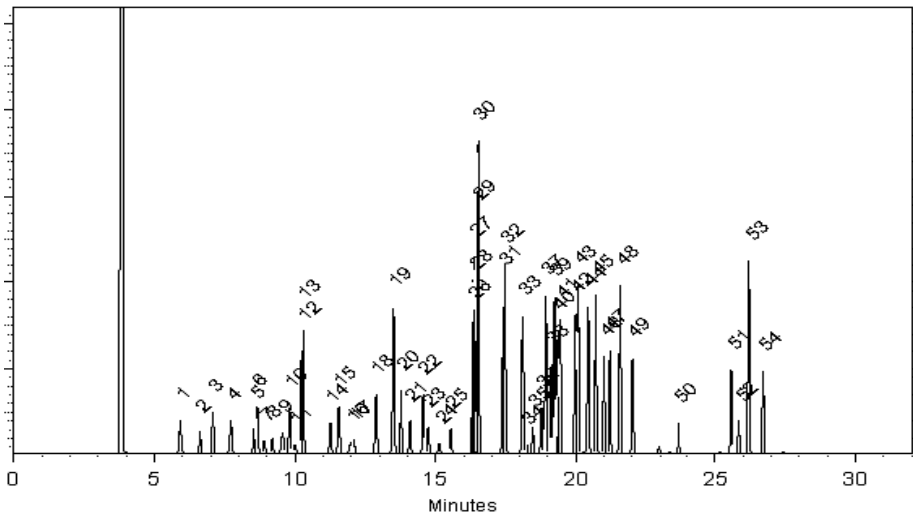
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



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

Nick Yaw - Operations Tech I

Date Mixed: 28-Apr-2023 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 05-May-2023

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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_MegaMix#2_00165

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577487 **Lot No.:** A0197578

Description : Custom VOC MegaMix® #2 Standard

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

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

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Pentane (C5)	109-66-0	SHBQ0917	99%	5,046.5 µg/mL	+/- 85.0489
2	2-Propanol (isopropanol)	67-63-0	SHBP6610	99%	25,172.0 µg/mL	+/- 411.6105
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	00018685	99%	5,025.7 µg/mL	+/- 84.6978
4	tert-Butanol (TBA)	75-65-0	101619K21F-1	99%	25,170.0 µg/mL	+/- 411.5778
5	Methyl acetate	79-20-9	SHBP3100	99%	5,020.2 µg/mL	+/- 84.6051
6	Iodomethane (methyl iodide)	74-88-4	MKCN8012	99%	5,022.3 µg/mL	+/- 84.6416
7	Allyl chloride (3-chloropropene)	107-05-1	RD221118RSR	99%	5,038.8 µg/mL	+/- 84.9197
8	Carbon disulfide	75-15-0	N28F701	99%	5,028.2 µg/mL	+/- 84.7399
9	Acrylonitrile	107-13-1	102466R02E	99%	12,532.0 µg/mL	+/- 204.9222
10	Methyl-tert-butyl ether (MTBE)	1634-04-4	SHBP0179	99%	5,044.2 µg/mL	+/- 85.0096
11	n-Hexane (C6)	110-54-3	STBG6381	99%	5,016.0 µg/mL	+/- 84.5349
12	Diisopropyl ether (DIPE)	108-20-3	STBK3450	99%	5,043.0 µg/mL	+/- 84.9899
13	Chloroprene (2-chloro-1,3-butadiene)	126-99-8	S230420RSR	99%	5,037.3 µg/mL	+/- 84.8944
14	Ethyl-tert-butyl ether (ETBE)	637-92-3	MKCP5997	99%	5,034.8 µg/mL	+/- 84.8523
15	Propionitrile	107-12-0	BCCH7430	99%	25,000.0 µg/mL	+/- 408.7979
16	Methacrylonitrile	126-98-7	1012014	99%	12,520.0 µg/mL	+/- 204.7260

17	Isobutanol (2-Methyl-1-propanol)	78-83-1	SHBP7066	99%	62,545.0	µg/mL	+/-	1,022.7307
18	Tetrahydrofuran	109-99-9	SHBQ0910	99%	25,024.0	µg/mL	+/-	409.1904
19	Cyclohexane	110-82-7	MKCQ2001	99%	5,039.5	µg/mL	+/-	84.9309
20	1-Butanol	71-36-3	101601K21K	99%	62,664.0	µg/mL	+/-	1,024.6765
21	tert-Amyl methyl ether (TAME)	994-05-8	HMBJ0825	99%	5,021.8	µg/mL	+/-	84.6332
22	n-Heptane (C7)	142-82-5	044743N07T	99%	5,041.5	µg/mL	+/-	84.9646
23	tert-Amyl ethyl ether (TAEE)	919-94-8	IKVYB	97%	5,049.3	µg/mL	+/-	85.0967
24	Methylcyclohexane	108-87-2	SHBN1699	99%	5,028.0	µg/mL	+/-	84.7371
25	Methyl methacrylate	80-62-6	MKCQ2756	99%	5,012.3	µg/mL	+/-	84.4731
26	1,4-Dioxane	123-91-1	SHBN3770	99%	62,583.0	µg/mL	+/-	1,023.3520
27	2-Nitropropane	79-46-9	BCCB9352	97%	25,024.1	µg/mL	+/-	409.1914
28	Ethyl methacrylate	97-63-2	MKCN6206	97%	5,040.1	µg/mL	+/-	84.9414
29	1-Chlorohexane	544-10-5	BCBS3368V	99%	5,046.3	µg/mL	+/-	85.0461
30	trans-1,4-dichloro-2-butene	110-57-6	RD221227RSRA	94%	12,618.6	µg/mL	+/-	206.3376
31	1,2,3-Trimethylbenzene	526-73-8	8776.10-36	98%	5,002.6	µg/mL	+/-	84.3086
32	1,3-Diethylbenzene	141-93-5	BCBZ6270	99%	5,041.0	µg/mL	+/-	84.9562
33	Benzyl chloride	100-44-7	MKCM5986	99%	5,045.3	µg/mL	+/-	85.0292
34	1,4-Diethylbenzene	105-05-5	1135.72-1	99%	5,032.7	µg/mL	+/-	84.8158
35	1,2-Diethylbenzene	135-01-3	ECH2970181	99%	5,015.3	µg/mL	+/-	84.5236
36	1,3,5-Trichlorobenzene	108-70-3	11319AS	99%	5,003.8	µg/mL	+/-	84.3298
37	2-Methylnaphthalene	91-57-6	STBK0259	96%	5,002.4	µg/mL	+/-	84.3057

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

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.)

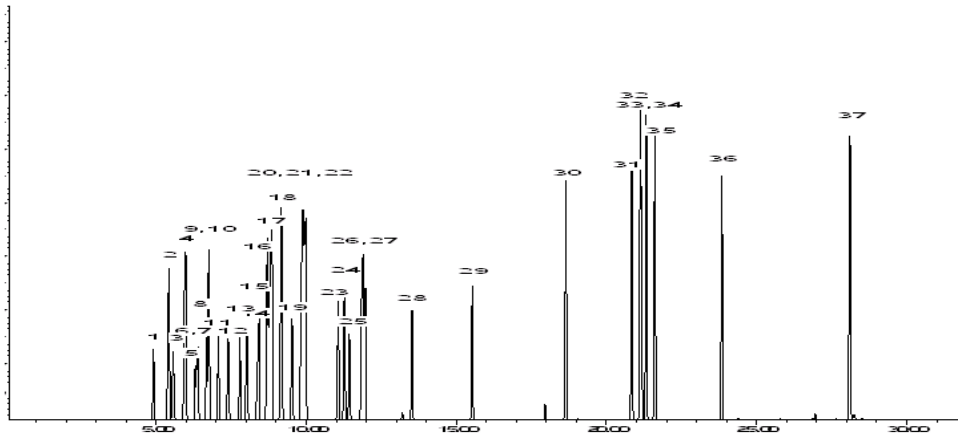
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
25.0 ml/min.

Inj. Vol
1µl



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

Sam Moodler - Operations Tech I

Date Mixed: 30-Apr-2023 **Balance Serial #** B251644995

Marlina Cowan -- Operations Tech II ARM QC

Date Passed: 02-May-2023

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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_MegaMix#2_00168

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577487 **Lot No.:** A0197578

Description : Custom VOC MegaMix® #2 Standard

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

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

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Pentane (C5)	109-66-0	SHBQ0917	99%	5,046.5 µg/mL	+/- 85.0489
2	2-Propanol (isopropanol)	67-63-0	SHBP6610	99%	25,172.0 µg/mL	+/- 411.6105
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	00018685	99%	5,025.7 µg/mL	+/- 84.6978
4	tert-Butanol (TBA)	75-65-0	101619K21F-1	99%	25,170.0 µg/mL	+/- 411.5778
5	Methyl acetate	79-20-9	SHBP3100	99%	5,020.2 µg/mL	+/- 84.6051
6	Iodomethane (methyl iodide)	74-88-4	MKCN8012	99%	5,022.3 µg/mL	+/- 84.6416
7	Allyl chloride (3-chloropropene)	107-05-1	RD221118RSR	99%	5,038.8 µg/mL	+/- 84.9197
8	Carbon disulfide	75-15-0	N28F701	99%	5,028.2 µg/mL	+/- 84.7399
9	Acrylonitrile	107-13-1	102466R02E	99%	12,532.0 µg/mL	+/- 204.9222
10	Methyl-tert-butyl ether (MTBE)	1634-04-4	SHBP0179	99%	5,044.2 µg/mL	+/- 85.0096
11	n-Hexane (C6)	110-54-3	STBG6381	99%	5,016.0 µg/mL	+/- 84.5349
12	Diisopropyl ether (DIPE)	108-20-3	STBK3450	99%	5,043.0 µg/mL	+/- 84.9899
13	Chloroprene (2-chloro-1,3-butadiene)	126-99-8	S230420RSR	99%	5,037.3 µg/mL	+/- 84.8944
14	Ethyl-tert-butyl ether (ETBE)	637-92-3	MKCP5997	99%	5,034.8 µg/mL	+/- 84.8523
15	Propionitrile	107-12-0	BCCH7430	99%	25,000.0 µg/mL	+/- 408.7979
16	Methacrylonitrile	126-98-7	1012014	99%	12,520.0 µg/mL	+/- 204.7260

17	Isobutanol (2-Methyl-1-propanol)	78-83-1	SHBP7066	99%	62,545.0	µg/mL	+/-	1,022.7307
18	Tetrahydrofuran	109-99-9	SHBQ0910	99%	25,024.0	µg/mL	+/-	409.1904
19	Cyclohexane	110-82-7	MKCQ2001	99%	5,039.5	µg/mL	+/-	84.9309
20	1-Butanol	71-36-3	101601K21K	99%	62,664.0	µg/mL	+/-	1,024.6765
21	tert-Amyl methyl ether (TAME)	994-05-8	HMBJ0825	99%	5,021.8	µg/mL	+/-	84.6332
22	n-Heptane (C7)	142-82-5	044743N07T	99%	5,041.5	µg/mL	+/-	84.9646
23	tert-Amyl ethyl ether (TAEE)	919-94-8	IKVYB	97%	5,049.3	µg/mL	+/-	85.0967
24	Methylcyclohexane	108-87-2	SHBN1699	99%	5,028.0	µg/mL	+/-	84.7371
25	Methyl methacrylate	80-62-6	MKCQ2756	99%	5,012.3	µg/mL	+/-	84.4731
26	1,4-Dioxane	123-91-1	SHBN3770	99%	62,583.0	µg/mL	+/-	1,023.3520
27	2-Nitropropane	79-46-9	BCCB9352	97%	25,024.1	µg/mL	+/-	409.1914
28	Ethyl methacrylate	97-63-2	MKCN6206	97%	5,040.1	µg/mL	+/-	84.9414
29	1-Chlorohexane	544-10-5	BCBS3368V	99%	5,046.3	µg/mL	+/-	85.0461
30	trans-1,4-dichloro-2-butene	110-57-6	RD221227RSRA	94%	12,618.6	µg/mL	+/-	206.3376
31	1,2,3-Trimethylbenzene	526-73-8	8776.10-36	98%	5,002.6	µg/mL	+/-	84.3086
32	1,3-Diethylbenzene	141-93-5	BCBZ6270	99%	5,041.0	µg/mL	+/-	84.9562
33	Benzyl chloride	100-44-7	MKCM5986	99%	5,045.3	µg/mL	+/-	85.0292
34	1,4-Diethylbenzene	105-05-5	1135.72-1	99%	5,032.7	µg/mL	+/-	84.8158
35	1,2-Diethylbenzene	135-01-3	ECH2970181	99%	5,015.3	µg/mL	+/-	84.5236
36	1,3,5-Trichlorobenzene	108-70-3	11319AS	99%	5,003.8	µg/mL	+/-	84.3298
37	2-Methylnaphthalene	91-57-6	STBK0259	96%	5,002.4	µg/mL	+/-	84.3057

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

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.)

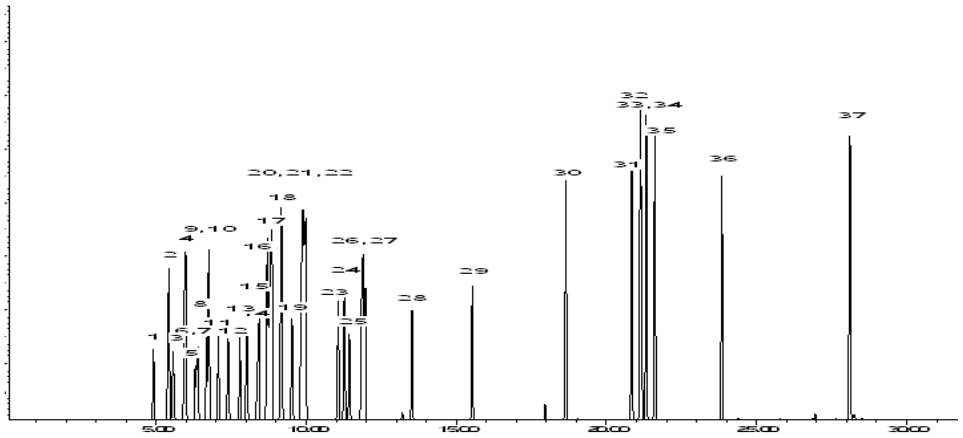
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
25.0 ml/min.

Inj. Vol
1µl



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

Sam Moodler - Operations Tech I

Date Mixed: 30-Apr-2023 **Balance Serial #** B251644995

Marlina Cowan -- Operations Tech II ARM QC

Date Passed: 02-May-2023

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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_MegaMix#2_00181

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577487 **Lot No.:** A0197578

Description : Custom VOC MegaMix® #2 Standard

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

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

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Pentane (C5)	109-66-0	SHBQ0917	99%	5,046.5 µg/mL	+/- 85.0489
2	2-Propanol (isopropanol)	67-63-0	SHBP6610	99%	25,172.0 µg/mL	+/- 411.6105
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	00018685	99%	5,025.7 µg/mL	+/- 84.6978
4	tert-Butanol (TBA)	75-65-0	101619K21F-1	99%	25,170.0 µg/mL	+/- 411.5778
5	Methyl acetate	79-20-9	SHBP3100	99%	5,020.2 µg/mL	+/- 84.6051
6	Iodomethane (methyl iodide)	74-88-4	MKCN8012	99%	5,022.3 µg/mL	+/- 84.6416
7	Allyl chloride (3-chloropropene)	107-05-1	RD221118RSR	99%	5,038.8 µg/mL	+/- 84.9197
8	Carbon disulfide	75-15-0	N28F701	99%	5,028.2 µg/mL	+/- 84.7399
9	Acrylonitrile	107-13-1	102466R02E	99%	12,532.0 µg/mL	+/- 204.9222
10	Methyl-tert-butyl ether (MTBE)	1634-04-4	SHBP0179	99%	5,044.2 µg/mL	+/- 85.0096
11	n-Hexane (C6)	110-54-3	STBG6381	99%	5,016.0 µg/mL	+/- 84.5349
12	Diisopropyl ether (DIPE)	108-20-3	STBK3450	99%	5,043.0 µg/mL	+/- 84.9899
13	Chloroprene (2-chloro-1,3-butadiene)	126-99-8	S230420RSR	99%	5,037.3 µg/mL	+/- 84.8944
14	Ethyl-tert-butyl ether (ETBE)	637-92-3	MKCP5997	99%	5,034.8 µg/mL	+/- 84.8523
15	Propionitrile	107-12-0	BCCH7430	99%	25,000.0 µg/mL	+/- 408.7979
16	Methacrylonitrile	126-98-7	1012014	99%	12,520.0 µg/mL	+/- 204.7260

17	Isobutanol (2-Methyl-1-propanol)	78-83-1	SHBP7066	99%	62,545.0	µg/mL	+/-	1,022.7307
18	Tetrahydrofuran	109-99-9	SHBQ0910	99%	25,024.0	µg/mL	+/-	409.1904
19	Cyclohexane	110-82-7	MKCQ2001	99%	5,039.5	µg/mL	+/-	84.9309
20	1-Butanol	71-36-3	101601K21K	99%	62,664.0	µg/mL	+/-	1,024.6765
21	tert-Amyl methyl ether (TAME)	994-05-8	HMBJ0825	99%	5,021.8	µg/mL	+/-	84.6332
22	n-Heptane (C7)	142-82-5	044743N07T	99%	5,041.5	µg/mL	+/-	84.9646
23	tert-Amyl ethyl ether (TAEE)	919-94-8	IKVYB	97%	5,049.3	µg/mL	+/-	85.0967
24	Methylcyclohexane	108-87-2	SHBN1699	99%	5,028.0	µg/mL	+/-	84.7371
25	Methyl methacrylate	80-62-6	MKCQ2756	99%	5,012.3	µg/mL	+/-	84.4731
26	1,4-Dioxane	123-91-1	SHBN3770	99%	62,583.0	µg/mL	+/-	1,023.3520
27	2-Nitropropane	79-46-9	BCCB9352	97%	25,024.1	µg/mL	+/-	409.1914
28	Ethyl methacrylate	97-63-2	MKCN6206	97%	5,040.1	µg/mL	+/-	84.9414
29	1-Chlorohexane	544-10-5	BCBS3368V	99%	5,046.3	µg/mL	+/-	85.0461
30	trans-1,4-dichloro-2-butene	110-57-6	RD221227RSRA	94%	12,618.6	µg/mL	+/-	206.3376
31	1,2,3-Trimethylbenzene	526-73-8	8776.10-36	98%	5,002.6	µg/mL	+/-	84.3086
32	1,3-Diethylbenzene	141-93-5	BCBZ6270	99%	5,041.0	µg/mL	+/-	84.9562
33	Benzyl chloride	100-44-7	MKCM5986	99%	5,045.3	µg/mL	+/-	85.0292
34	1,4-Diethylbenzene	105-05-5	1135.72-1	99%	5,032.7	µg/mL	+/-	84.8158
35	1,2-Diethylbenzene	135-01-3	ECH2970181	99%	5,015.3	µg/mL	+/-	84.5236
36	1,3,5-Trichlorobenzene	108-70-3	11319AS	99%	5,003.8	µg/mL	+/-	84.3298
37	2-Methylnaphthalene	91-57-6	STBK0259	96%	5,002.4	µg/mL	+/-	84.3057

* Expanded Uncertainty displayed in same units as Grav. Conc.

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

Quality Confirmation Test

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.)

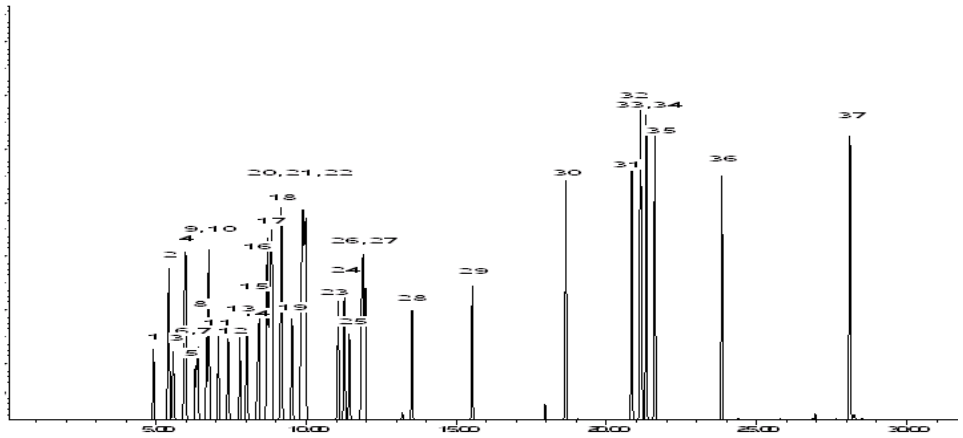
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
25.0 ml/min.

Inj. Vol
1µl



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

Sam Moodler - Operations Tech I

Date Mixed: 30-Apr-2023 **Balance Serial #** B251644995

Marlina Cowan -- Operations Tech II ARM QC

Date Passed: 02-May-2023

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

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

- 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 ampuls. 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_MethylAcr_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

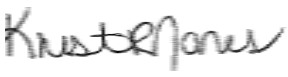
Methyl acrylate

CATALOG NUMBER	N-12413-1G
LOT NUMBER	14104500
DATE CERTIFIED	01/06/22
EXPIRATION DATE	01/31/26
CAS NUMBER	96-33-3
MOLECULAR FORMULA	C4H6O2
MOLECULAR WEIGHT	86.10
STORAGE	Store at room temperature (20 - 25 °C).
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

Analytical Test	Value
% PURITY (GC/FID)	99.5
FT-IR SPECTROSCOPY	CONFORMS TO STRUCTURE

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:



Kristin R Jones

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

PJLA Testing

PJLA Reference Material Producer

COA Form
Revision 3 (3/2015)

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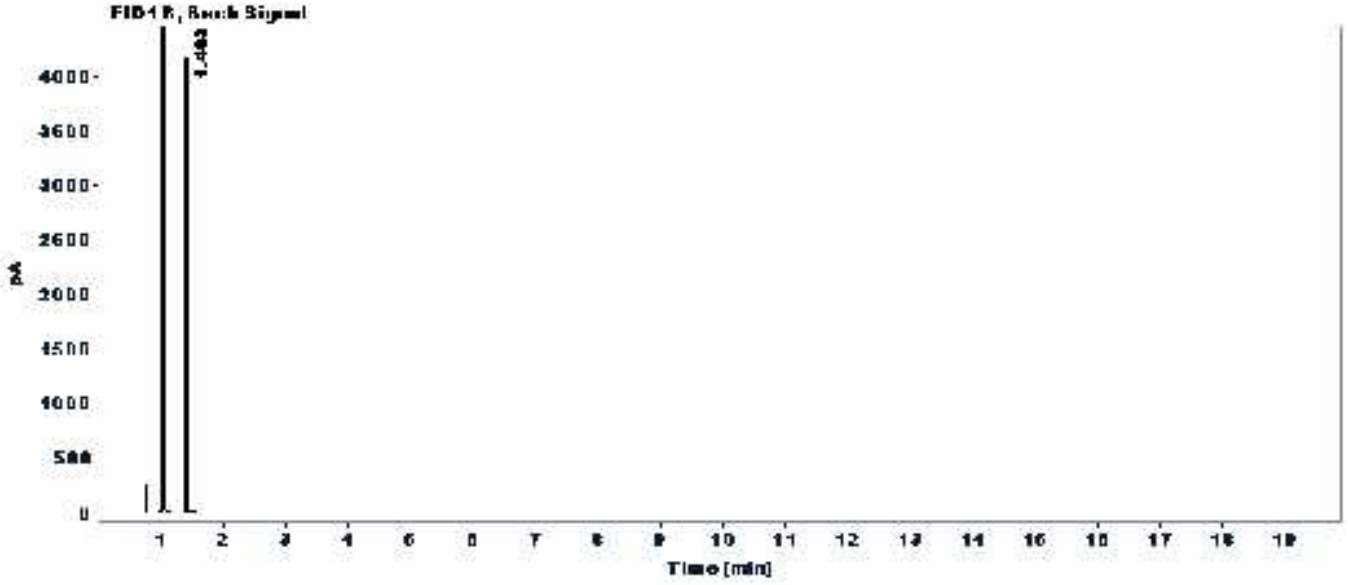
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file:	C:\CHEM32\1\DATA\2022 DATA\0122\methyl acrylate.D		
Sample name:	Methyl acrylate		
Acq. method:	FRANNY-BACK.M		
Instrument:	GC3	**Location:**	201
Injection date:	1/6/2022 9:14:16 AM	**Injection Vol:**	1.000
Column name:	RTx-5MS (30m x 0.25mm x 0.5µm)	**# Of Injections:**	1



Signal: FID1 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
1.403	BB S	0.0102	2527.1797	4118.3921	100.0000
		Sum	2527.1797		

Reagent

MSV_nButylAcr_00005

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

n-Butyl acrylate

CATALOG NUMBER	N-12513-1G
LOT NUMBER	14061100
DATE CERTIFIED	01/06/20
EXPIRATION DATE	01/31/26
CAS NUMBER	141-32-2
MOLECULAR FORMULA	C7H12O2
MOLECULAR WEIGHT	128.17
STORAGE	Store at room temperature (20 - 25 °C).
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

Analytical Test	Value
% PURITY (GC/FID)	99.5

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

Certified By:

Kristin R Jones

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

PJLA Testing

PJLA Reference Material Producer

COA Form
Revision 3 (3/2015)

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

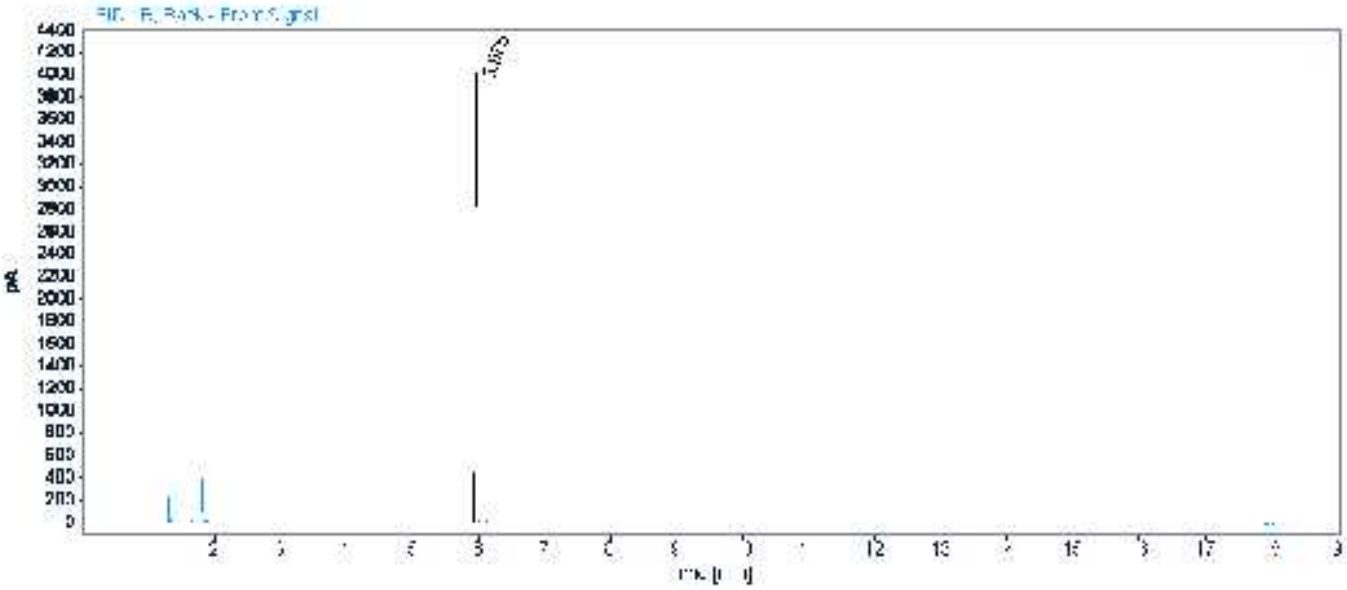
CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2020 DATA\0120\butyl acrylate.D
Sample name: Butyl acrylate
Description:

Acq. method: S-10428M1.M

Location: 204
Instrument: GC3
Injection Vol: 1.000
Injection date: 1/6/2020 9:50:14 AM
 # Of Injections: 1
Column name: HP-5ms Ultra Inert **Diameter** 250.000 **Length** 30.000 **Particle Size** 0.250



Signal: FID1 B, Back - Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
5.975	BV	0.0296	8741.1309	3980.0339	100.0000
		Sum	8741.1309		

Reagent

MSV_Q_Ketones_00191

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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. : 569721.SEC **Lot No.:** A0194631

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

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

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

Expiration Date : February 28, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1.SEC	S25F025	99%	12,530.8 µg/mL	+/- 433.0935
2	2-Butanone (MEK)	78-93-3.SEC	HDLUO	99%	12,522.8 µg/mL	+/- 432.8170
3	4-Methyl-2-pentanone (MIBK)	108-10-1.SEC	E29T040	99%	12,555.6 µg/mL	+/- 433.9507
4	2-Hexanone	591-78-6.SEC	Y3TUO	99%	12,580.4 µg/mL	+/- 434.8078

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Quality Confirmation Test

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.)

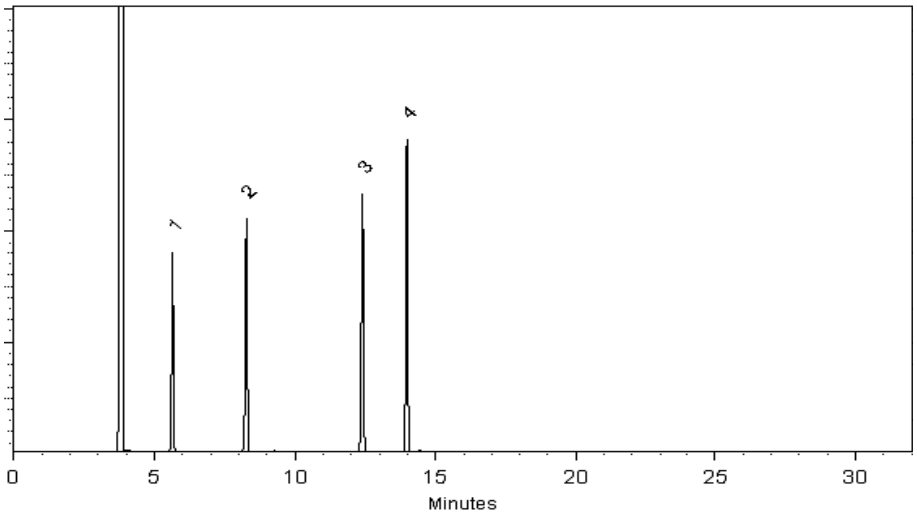
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



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.

Bryan Snyder - Operations Tech I

Date Mixed: 14-Feb-2023 **Balance Serial #** 1128342314

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Feb-2023

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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_QC_2K_GAS_00207

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

Description : Custom Gases.SEC Standard

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

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

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

Ship: Ambient

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

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

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

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

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

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

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

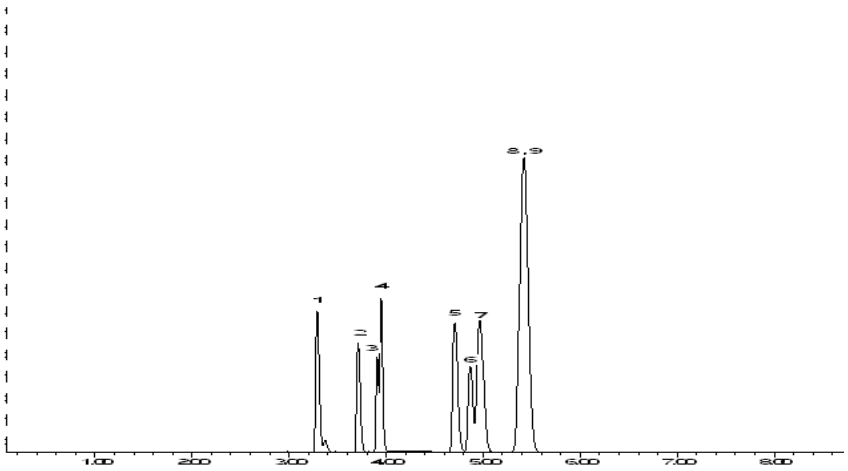
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Brandon Reish - Mix Technician

Date Mixed: 05-May-2022 **Balance:** 1127510105

Marlina Cowan - Operations Tech I

Date Passed: 10-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_QC_2K_GAS_00223

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom Gases.SEC Standard

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

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

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

Ship: Ambient

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

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

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

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

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

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

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

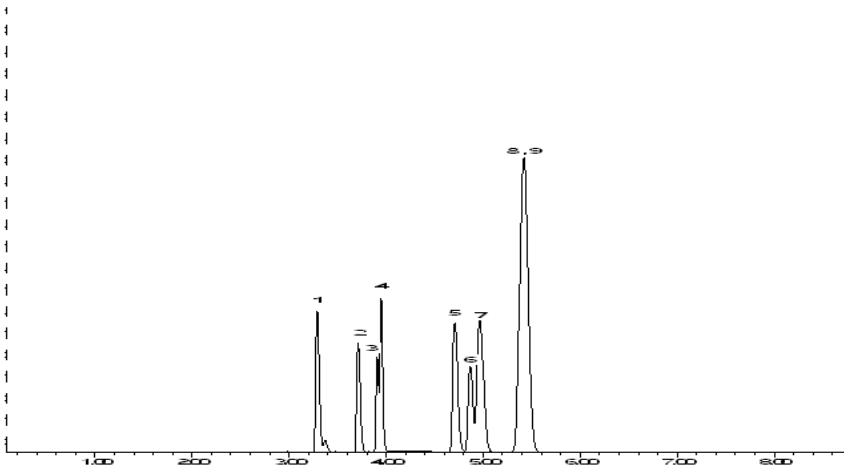
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Brandon Reish - Mix Technician

Date Mixed: 05-May-2022 **Balance:** 1127510105

Marlina Cowan - Operations Tech I

Date Passed: 10-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

MSV_V_Ketones_00171

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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. : 569721 **Lot No.:** A0193494

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

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

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

Expiration Date : January 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	12,581.8 µg/mL	+/- 434.7671
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	12,578.5 µg/mL	+/- 434.6548
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	12,602.3 µg/mL	+/- 435.4755
4	2-Hexanone	591-78-6	MKCQ6663	99%	12,587.5 µg/mL	+/- 434.9658

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Quality Confirmation Test

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.)

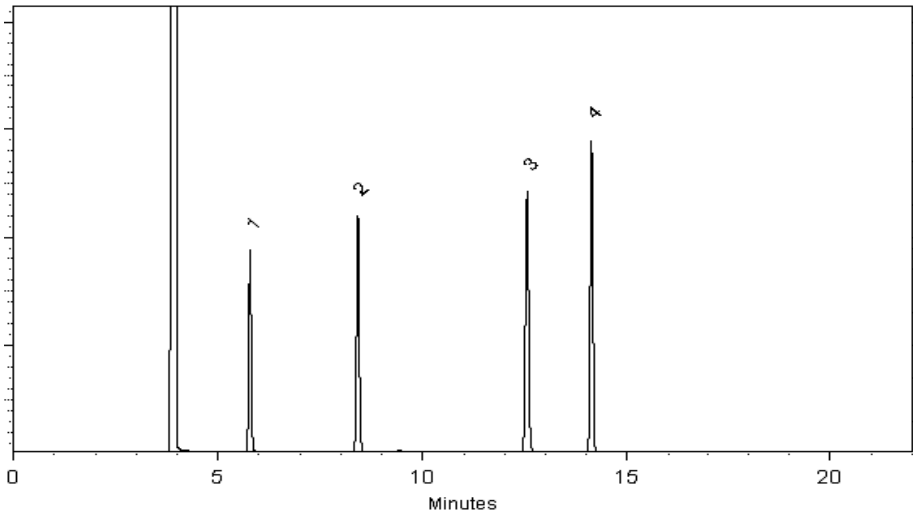
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



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.

Bethany Lowery - Operations Tech I

Date Mixed: 12-Jan-2023 **Balance Serial #** B251644995

Christie Mills - Operations Tech II - ARM QC

Date Passed: 16-Jan-2023

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 expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls 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 ampuls. 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_PentaCL_00044

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom Pentachloroethane Standard

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

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

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

Ship: Ambient

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

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

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

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

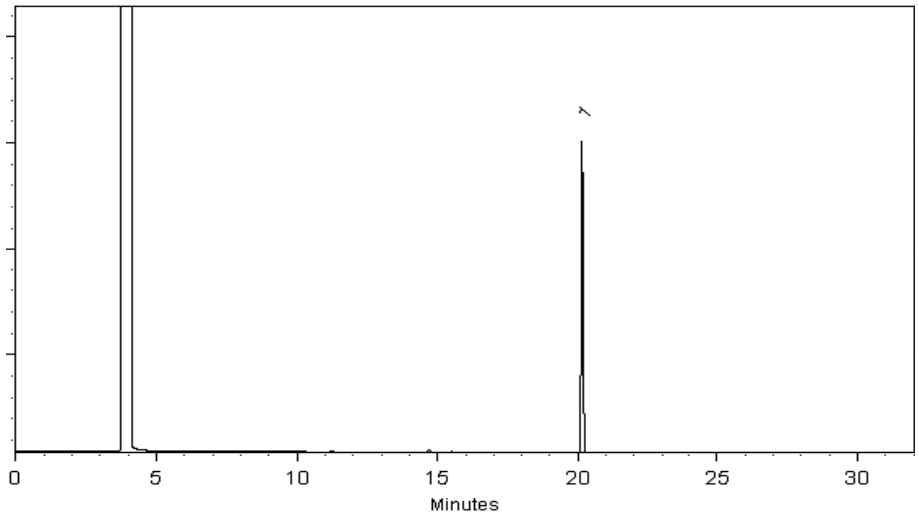
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Nick Yaw - Operations Tech I

Date Mixed: 15-Apr-2022 **Balance:** B707717271

Christie Mills - Operations Technician II

Date Passed: 20-Apr-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Reagent

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Certificate of Analysis

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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. : 577490 **Lot No.:** A0184508

Description : Custom SM Freons Standard

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

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

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

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Chlorotrifluoroethylene	2,000.6 µg/mL	+/- 37.3988 µg/mL	Gravimetric
	CAS # 79-38-9 (Lot 202600)		+/- 117.6695 µg/mL	Unstressed
	Purity 99%		+/- 120.1742 µg/mL	Stressed
2	Chlorodifluoromethane (CFC-22)	2,004.5 µg/mL	+/- 79.7514 µg/mL	Gravimetric
	CAS # 75-45-6 (Lot Q162-44)		+/- 137.3187 µg/mL	Unstressed
	Purity 99%		+/- 139.4793 µg/mL	Stressed
3	2-Chloro-1,1,1-trifluoroethane (HCFC-133a)	2,000.3 µg/mL	+/- 53.9352 µg/mL	Gravimetric
	CAS # 75-88-7 (Lot Q157-146)		+/- 123.9040 µg/mL	Unstressed
	Purity 99%		+/- 126.2843 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)

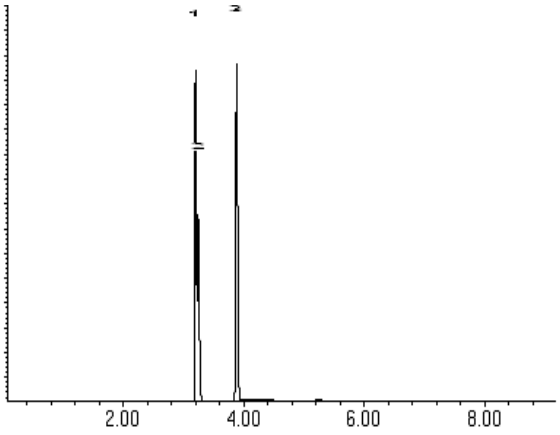
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.

Cathleen Soltis - Mix Technician

Date Mixed: 25-Apr-2022 **Balance:** B707717271

Christie Mills - Operations Technician II

Date Passed: 02-May-2022

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

Method 8260D

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): R-624SilMS 3 ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
HD-MW-166-0/1-0	410-177862-1	103	102	99	96
HD-MW-167-0/1-0	410-177862-2	105	100	90	95
HD-MW-168-0/1-0	410-177862-3	114	112	101	91
	MB 410-525820/6	105	104	105	97
	LCS 410-525820/4	99	98	105	97

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

Column to be used to flag recovery values

FORM II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Matrix: Water Level: Low Lab File ID: YL08X33.D

Lab ID: LCS 410-525820/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20.0	19.0	95	79-120	
1,1,1-Trichloroethane	20.0	19.9	100	73-120	
1,1,2,2-Tetrachloroethane	20.0	18.8	94	72-120	
1,1,2-Trichloroethane	20.0	19.9	99	80-120	
1,1-Dichloroethane	20.0	21.3	106	80-120	
1,1-Dichloroethene	20.0	22.5	112	80-131	
1,2-Dibromoethane (EDB)	20.0	19.5	97	77-120	
1,2-Dichloroethane	20.0	20.8	104	73-124	
1,2-Dichloropropane	20.0	19.6	98	80-120	
2-Butanone (MEK)	250	209	83	59-135	
2-Hexanone	250	226	91	56-135	
4-Methyl-2-pentanone (MIBK)	250	215	86	62-133	
Acetone	250	257	103	57-143	
Benzene	20.0	20.3	101	80-120	
Bromochloromethane	20.0	20.1	101	80-120	
Bromodichloromethane	20.0	20.0	100	71-120	
Bromoform	20.0	17.2	86	51-120	
Bromomethane	20.0	14.3	71	53-128	
Carbon disulfide	20.0	21.3	107	65-128	
Carbon tetrachloride	20.0	21.0	105	64-134	
Chlorobenzene	20.0	20.3	101	80-120	
Chloroethane	20.0	16.7	84	55-123	
Chloroform	20.0	16.9	85	80-120	
Chloromethane	20.0	12.3	62	39-134	
cis-1,2-Dichloroethene	20.0	20.5	102	80-125	
cis-1,3-Dichloropropene	20.0	17.5	87	75-120	
Dibromochloromethane	20.0	19.6	98	71-120	
Ethylbenzene	20.0	19.7	99	80-120	
Methyl tert-butyl ether	20.0	17.6	88	69-122	
Methylene Chloride	20.0	22.6	113	80-120	
Styrene	20.0	18.6	93	80-120	
Tetrachloroethene	20.0	19.7	99	80-120	
Toluene	20.0	20.8	104	80-120	
trans-1,2-Dichloroethene	20.0	21.4	107	80-126	
trans-1,3-Dichloropropene	20.0	19.7	98	67-120	
Trichloroethene	20.0	20.1	101	80-120	
Vinyl chloride	20.0	13.0	65	56-120	
Xylenes, Total	60.0	58.1	97	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Lab File ID: YL08X35.D Lab Sample ID: MB 410-525820/6

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

Instrument ID: 9355 Date Analyzed: 07/08/2024 22:03

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 410-525820/4	YL08X33.D	07/08/2024 21:17
HD-MW-166-0/1-0	410-177862-1	YL08X43.D	07/09/2024 01:02
HD-MW-167-0/1-0	410-177862-2	YL08X44.D	07/09/2024 01:24
HD-MW-168-0/1-0	410-177862-3	YL08X45.D	07/09/2024 01:47

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Lab File ID: YM25T01.D BFB Injection Date: 03/25/2024

Instrument ID: 9355 BFB Injection Time: 12:49

Analysis Batch No.: 486676

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.7	
75	30.0 - 60.0 % of mass 95	47.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	76.4	
175	5.0 - 9.0 % of mass 174	6.0	(7.8) 1
176	95.0 - 101.0 % of mass 174	73.8	(96.6) 1
177	5.0 - 9.0 % of mass 176	5.1	(6.9) 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 410-486676/3	YM25X02.D	03/25/2024	13:30
	IC 410-486676/4	YM25X03.D	03/25/2024	13:52
	IC 410-486676/5	YM25X04.D	03/25/2024	14:14
	IC 410-486676/6	YM25X05.D	03/25/2024	14:37
	IC 410-486676/7	YM25X06.D	03/25/2024	14:59
	IC 410-486676/8	YM25X07.D	03/25/2024	15:21
	IC 410-486676/12	YM25X11.D	03/25/2024	16:50
	IC 410-486676/13	YM25X12.D	03/25/2024	17:12
	IC 410-486676/15	YM25X14.D	03/25/2024	17:56
	ICIS 410-486676/16	YM25X15.D	03/25/2024	18:19
	IC 410-486676/17	YM25X16.D	03/25/2024	18:41
	IC 410-486676/18	YM25X17.D	03/25/2024	19:03
	ICV 410-486676/20	YM25X19.D	03/25/2024	19:47
	IC 410-486676/14	YM25X21.D	03/25/2024	20:33

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Lab File ID: YL08T31.D BFB Injection Date: 07/08/2024

Instrument ID: 9355 BFB Injection Time: 20:17

Analysis Batch No.: 525820

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.8	
75	30.0 - 60.0 % of mass 95	50.5	
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	0.0	(0.0) 1
174	Greater than 50% of mass 95	74.3	
175	5.0 - 9.0 % of mass 174	6.3	(8.5) 1
176	95.0 - 101.0 % of mass 174	72.8	(97.9) 1
177	5.0 - 9.0 % of mass 176	4.8	(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 410-525820/3	YL08X32.D	07/08/2024	20:55
	LCS 410-525820/4	YL08X33.D	07/08/2024	21:17
	MB 410-525820/6	YL08X35.D	07/08/2024	22:03
HD-MW-166-0/1-0	410-177862-1	YL08X43.D	07/09/2024	1:02
HD-MW-167-0/1-0	410-177862-2	YL08X44.D	07/09/2024	1:24
HD-MW-168-0/1-0	410-177862-3	YL08X45.D	07/09/2024	1:47

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Sample No.: ICIS 410-486676/16 Date Analyzed: 03/25/2024 18:19

Instrument ID: 9355 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): YM25X15.D Heated Purge: (Y/N) N

Calibration ID: 59886

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		385838	3.94	837226	7.49	636078	11.04
UPPER LIMIT		771676	4.44	1674452	7.99	1272156	11.54
LOWER LIMIT		192919	3.44	418613	6.99	318039	10.54
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-486676/20		404413	3.95	811297	7.49	613534	11.04
CCVIS 410-525820/3		358539	3.97	834887	7.48	599601	11.03

TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)
CBZd5 = Chlorobenzene-d5 (IS)

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Sample No.: ICIS 410-486676/16 Date Analyzed: 03/25/2024 18:19

Instrument ID: 9355 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): YM25X15.D Heated Purge: (Y/N) N

Calibration ID: 59886

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		382835	12.95				
UPPER LIMIT		765670	13.45				
LOWER LIMIT		191418	12.45				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-486676/20		366961	12.95				
CCVIS 410-525820/3		351467	12.94				

DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Sample No.: CCVIS 410-525820/3 Date Analyzed: 07/08/2024 20:55

Instrument ID: 9355 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): YL08X32.D Heated Purge: (Y/N) N

Calibration ID: 59886

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		358539	3.97	834887	7.48	599601	11.03
UPPER LIMIT		717078	4.47	1669774	7.98	1199202	11.53
LOWER LIMIT		179270	3.47	417444	6.98	299801	10.53
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-525820/4		362856	3.96	830700	7.48	584407	11.03
MB 410-525820/6		333271	4.01	761678	7.48	506456	11.03
410-177862-1	HD-MW-166-0/1-0	320164	3.95	722207	7.48	525417	11.03
410-177862-2	HD-MW-167-0/1-0	322700	3.97	737451	7.48	530616	11.03
410-177862-3	HD-MW-168-0/1-0	309412	3.97	649183	7.48	504385	11.03

TBAd10 = t-Butyl alcohol-d10 (IS)
TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Sample No.: CCVIS 410-525820/3 Date Analyzed: 07/08/2024 20:55

Instrument ID: 9355 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): YL08X32.D Heated Purge: (Y/N) N

Calibration ID: 59886

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		351467	12.94				
UPPER LIMIT		702934	13.44				
LOWER LIMIT		175734	12.44				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-525820/4		335699	12.94				
MB 410-525820/6		304121	12.94				
410-177862-1	HD-MW-166-0/1-0	307606	12.94				
410-177862-2	HD-MW-167-0/1-0	293050	12.94				
410-177862-3	HD-MW-168-0/1-0	298611	12.94				

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

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

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177862-1

SDG No.:

Client Sample ID: HD-MW-166-0/1-0
Lab Sample ID: 410-177862-1

Matrix: Water
Lab File ID: YL08X43.D

Analysis Method: 8260D
Date Collected: 06/26/2024 09:15

Sample wt/vol: 5(mL)
Date Analyzed: 07/09/2024 01:02

Soil Aliquot Vol:
Dilution Factor: 1

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

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 525820
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP20

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND	^c cn	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	0.65	J	1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177862-1

SDG No.:

Client Sample ID: HD-MW-166-0/1-0
Lab Sample ID: 410-177862-1

Matrix: Water
Lab File ID: YL08X43.D

Analysis Method: 8260D
Date Collected: 06/26/2024 09:15

Sample wt/vol: 5(mL)
Date Analyzed: 07/09/2024 01:02

Soil Aliquot Vol:
Dilution Factor: 1

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

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 525820
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP20

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	0.43	J	1.0	0.30
75-01-4	Vinyl chloride	ND	^c cn	1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

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)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X43.D
Lims ID: 410-177862-A-1
Client ID: HD-MW-166-0/1-0
Sample Type: Client
Inject. Date: 09-Jul-2024 01:02:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118782-014
Operator ID: MEC29284 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2024 14:46:24 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: QD9U Date: 09-Jul-2024 14:46:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.059				ND	
6 Vinyl chloride	62		2.152				ND	
8 Bromomethane	94		2.481				ND	
9 Chloroethane	64		2.560				ND	
18 Acetone	58		3.346				ND	
17 1,1-Dichloroethene	96		3.361				ND	
22 Carbon disulfide	76		3.682				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.954	3.968	-0.014	27	320164	250.0	
27 Methylene Chloride	84		3.975				ND	
30 Methyl tert-butyl ether	73		4.347				ND	
31 trans-1,2-Dichloroethene	96		4.369				ND	
34 1,1-Dichloroethane	63		5.019				ND	
40 2-Butanone (MEK)	43		5.820				ND	
41 cis-1,2-Dichloroethene	96		5.863				ND	
48 Chlorobromomethane	128		6.199				ND	
51 Chloroform	83		6.349				ND	7
$ 52 Dibromofluoromethane (Surr)	113	6.571	6.571	0.000	93	176673	51.5	
53 1,1,1-Trichloroethane	97		6.592				ND	
56 Carbon tetrachloride	117		6.821				ND	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.036	7.029	0.007	83	44467	51.0	
59 Benzene	78		7.064				ND	
60 1,2-Dichloroethane	62		7.143				ND	
* 63 Fluorobenzene (IS)	96	7.479	7.479	0.000	99	722207	50.0	
67 Trichloroethene	95	7.973	7.972	0.001	89	1524	0.4259	M
70 1,2-Dichloropropane	63		8.301				ND	
76 Dichlorobromomethane	83		8.652				ND	
79 cis-1,3-Dichloropropene	75		9.217				ND	
80 4-Methyl-2-pentanone (MIBK)	43		9.381				ND	
$ 81 Toluene-d8 (Surr)	98	9.531	9.538	-0.007	94	679804	49.6	
82 Toluene	92		9.617				ND	
83 trans-1,3-Dichloropropene	75		9.882				ND	
126 1,1,2-Trichloroethane	97		10.089				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
127 Tetrachloroethene	166	10.189	10.189	0.000	91	2422	0.6516	
129 2-Hexanone	43		10.303				ND	
132 Chlorodibromomethane	129		10.482				ND	
133 Ethylene Dibromide	107		10.597				ND	
* 134 Chlorobenzene-d5 (IS)	117	11.033	11.033	0.000	86	525417	50.0	
136 Chlorobenzene	112		11.061				ND	
137 1,1,1,2-Tetrachloroethane	131		11.147				ND	
138 Ethylbenzene	91		11.147				ND	7
S 139 Xylenes, Total	106		11.245				ND	7
140 m-Xylene & p-Xylene	106		11.269				ND	
142 o-Xylene	106		11.598				ND	
143 Styrene	104		11.619				ND	
144 Bromoform	173		11.776				ND	
$ 148 4-Bromofluorobenzene (Surr)	95	12.055	12.055	0.000	88	257251	47.9	
149 1,1,2,2-Tetrachloroethane	83		12.148				ND	
* 164 1,4-Dichlorobenzene-d4	152	12.942	12.942	0.000	96	307606	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

MSV_HP20_ISSS_00137 Amount Added: 1.00 Units: uL Run Reagent

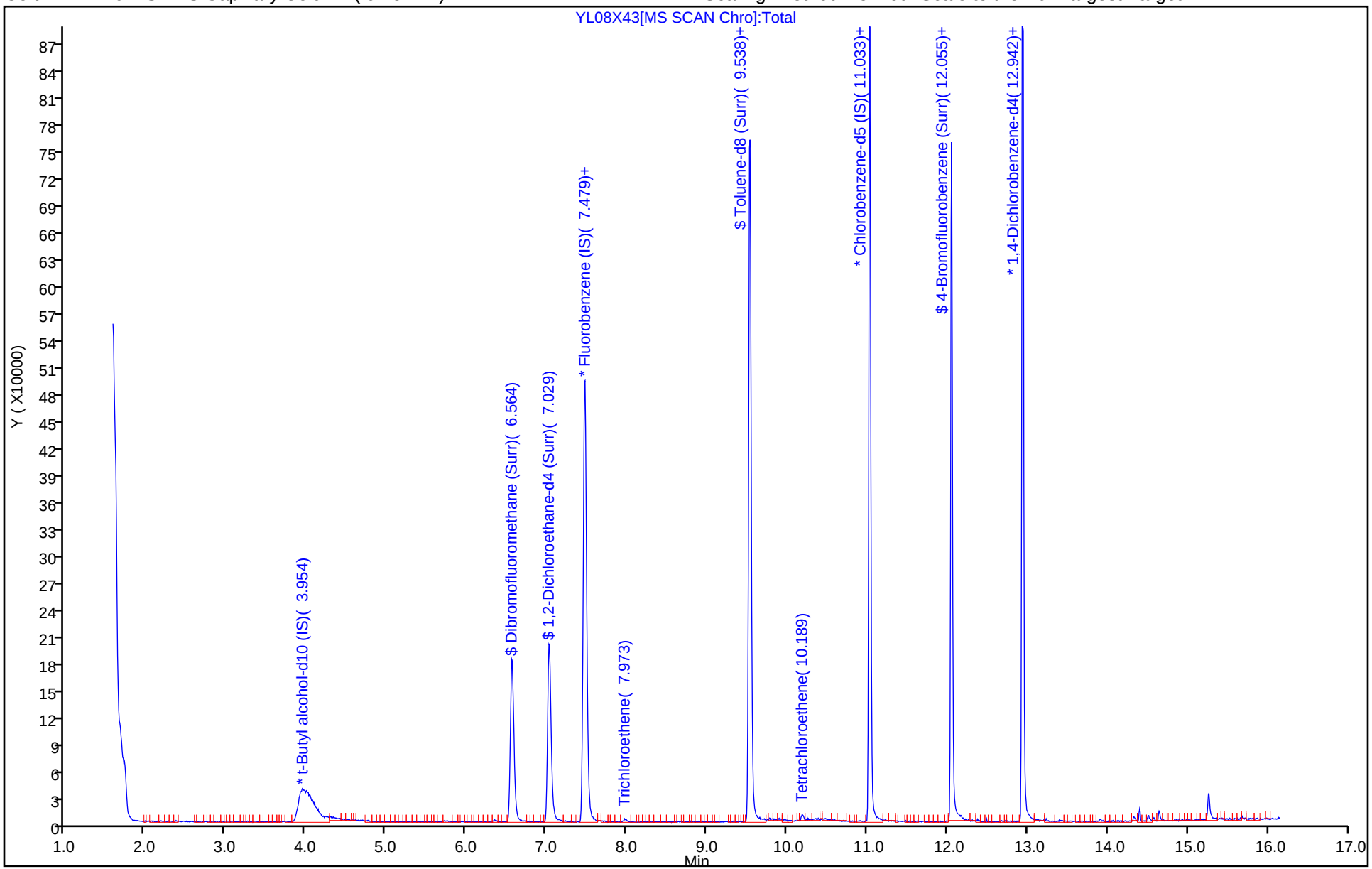
Report Date: 09-Jul-2024 14:46:25 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X43.D

Injection Date:	09-Jul-2024 01:02:30	Instrument ID:	9355	Operator ID:	MEC29284
Lims ID:	410-177862-A-1	Lab Sample ID:	410-177862-1	Worklist Smp#:	14
Client ID:	HD-MW-166-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X43.D				
Lims ID:	410-177862-A-1				
Client ID:	HD-MW-166-0/1-0				
Sample Type:	Client				
Inject. Date:	09-Jul-2024 01:02:30	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0118782-014				
Operator ID:	MEC29284	Instrument ID:	9355		
Method:	\\chromfs\Lancaster\ChromData\9355\20240708-118782.b\MSVoa_9355.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Jul-2024 14:46:24	Calib Date:	25-Mar-2024 20:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1617				

First Level Reviewer: QD9U Date: 09-Jul-2024 14:46:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	51.5	103.00
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	51.0	102.07
$ 81 Toluene-d8 (Surr)	50.0	49.6	99.27
$ 148 4-Bromofluorobenzene (Surr)	50.0	47.9	95.80

Report Date: 09-Jul-2024 14:46:25 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X43.D

Injection Date: 09-Jul-2024 01:02:30 Instrument ID: 9355

Lims ID: 410-177862-A-1 Lab Sample ID: 410-177862-1

Client ID: HD-MW-166-0/1-0

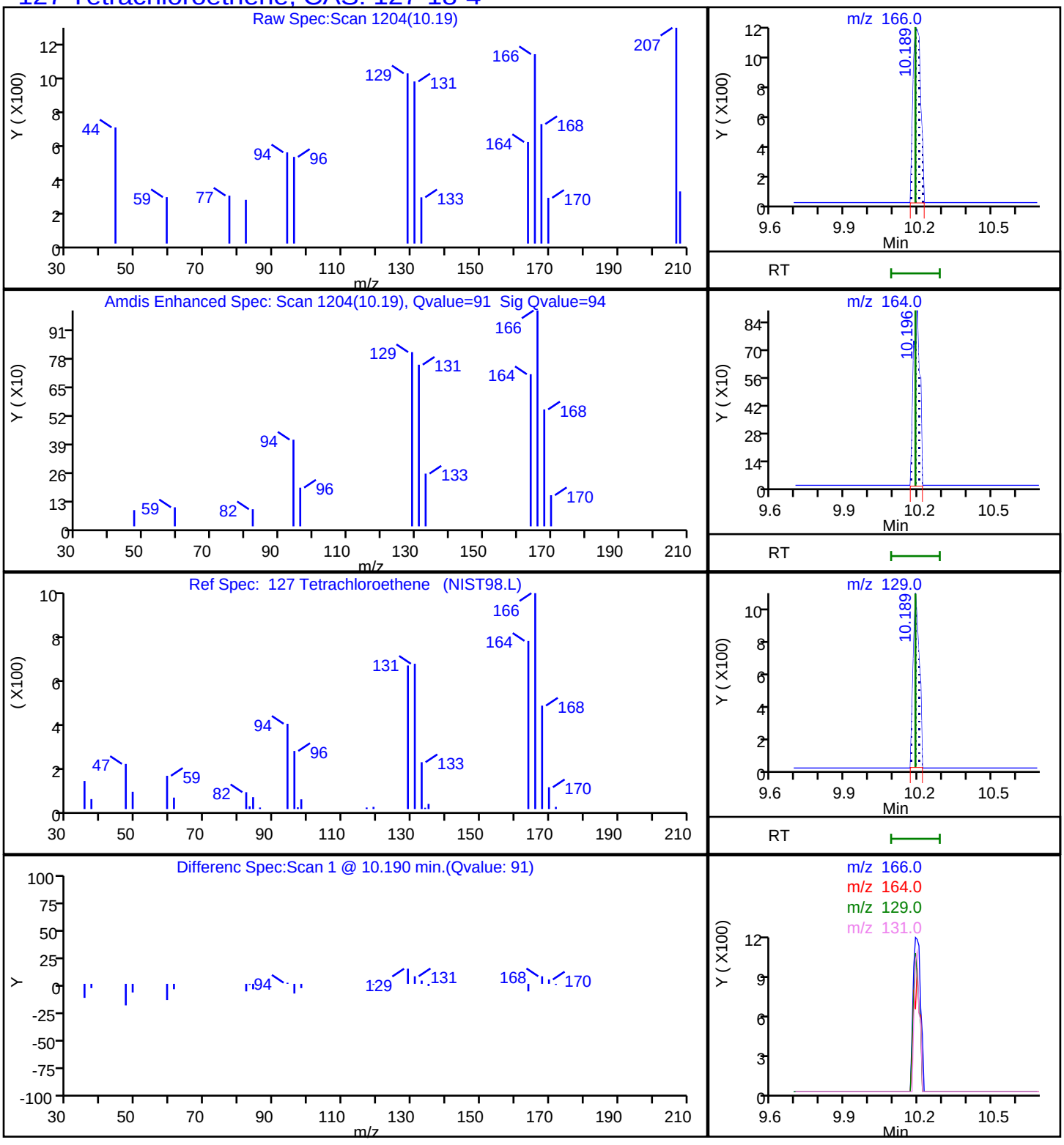
Operator ID: MEC29284 ALS Bottle#: 13 Worklist Smp#: 14

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

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

127 Tetrachloroethene, CAS: 127-18-4



Report Date: 09-Jul-2024 14:46:25 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X43.D

Injection Date: 09-Jul-2024 01:02:30 Instrument ID: 9355

Lims ID: 410-177862-A-1 Lab Sample ID: 410-177862-1

Client ID: HD-MW-166-0/1-0

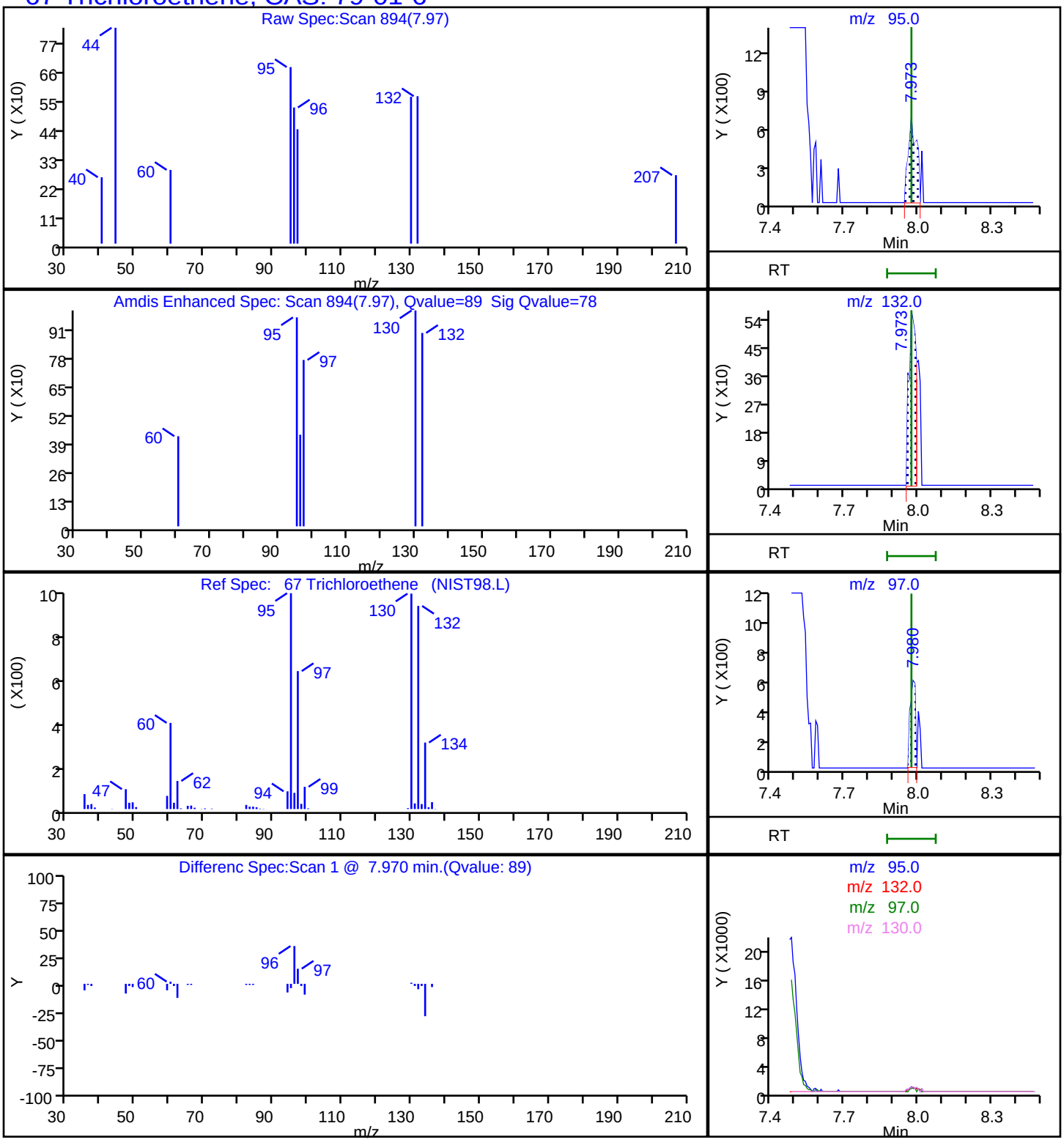
Operator ID: MEC29284 ALS Bottle#: 13 Worklist Smp#: 14

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

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

67 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

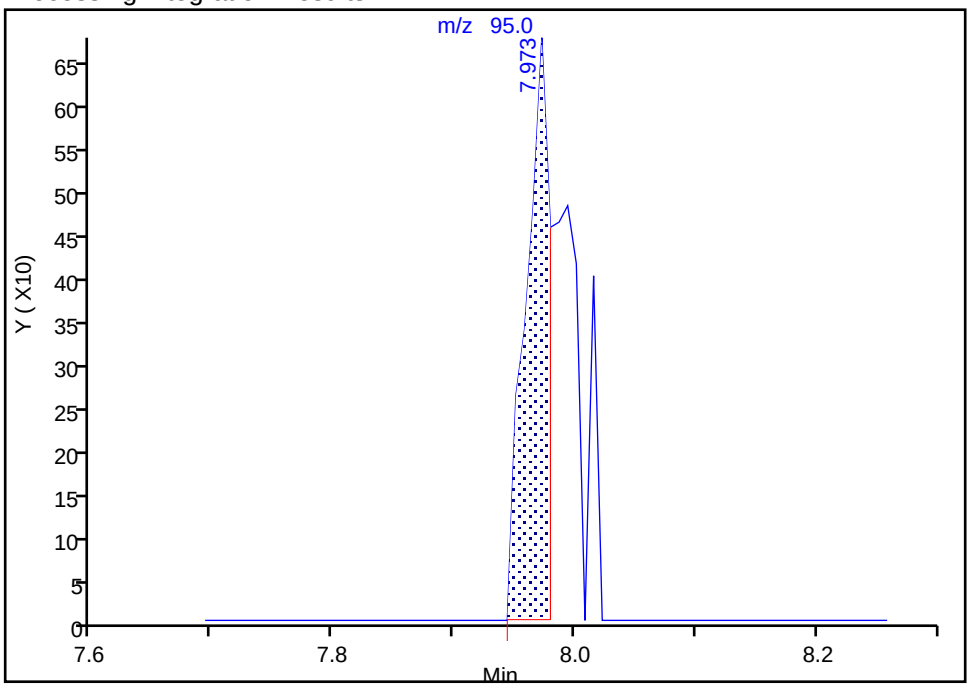
Data File:	\\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X43.D				
Injection Date:	09-Jul-2024 01:02:30	Instrument ID:	9355		
Lims ID:	410-177862-A-1	Lab Sample ID:	410-177862-1		
Client ID:	HD-MW-166-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

67 Trichloroethene, CAS: 79-01-6

Signal: 1

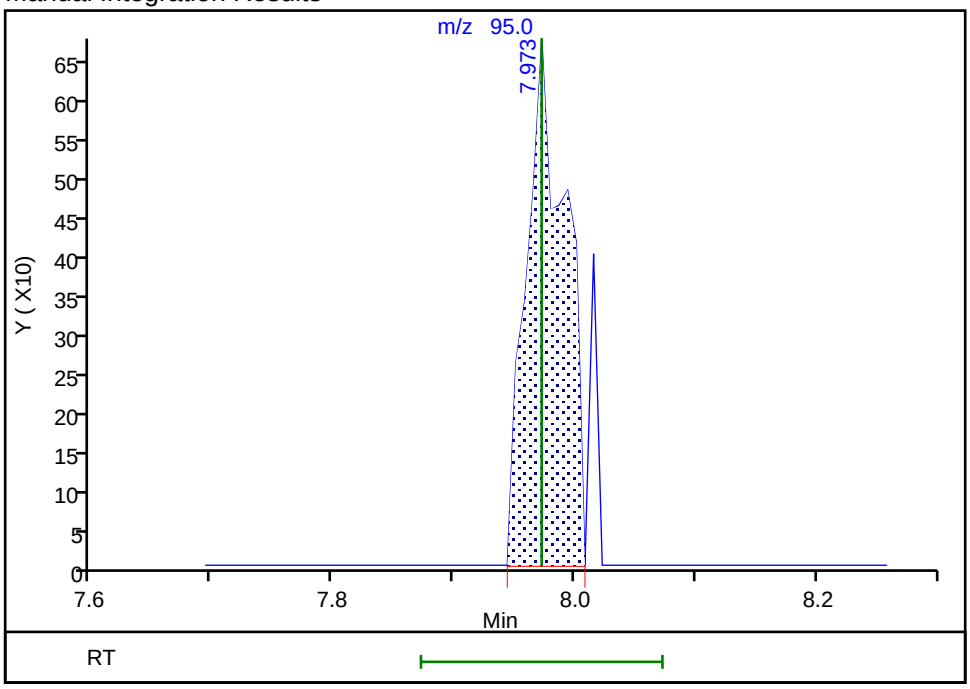
Processing Integration Results

RT: 7.97
Area: 944
Amount: 0.263839
Amount Units: ug/l



Manual Integration Results

RT: 7.97
Area: 1524
Amount: 0.425943
Amount Units: ug/l



Reviewer: QD9U, 09-Jul-2024 14:46:01 07:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177862-1

SDG No.:

Client Sample ID: HD-MW-167-0/1-0
Lab Sample ID: 410-177862-2

Matrix: Water
Lab File ID: YL08X44.D

Analysis Method: 8260D
Date Collected: 06/26/2024 09:05

Sample wt/vol: 5(mL)
Date Analyzed: 07/09/2024 01:24

Soil Aliquot Vol:
Dilution Factor: 1

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

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 525820
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP20

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND	^c cn	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	1.7		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177862-1

SDG No.:

Client Sample ID: HD-MW-167-0/1-0
Lab Sample ID: 410-177862-2

Matrix: Water
Lab File ID: YL08X44.D

Analysis Method: 8260D
Date Collected: 06/26/2024 09:05

Sample wt/vol: 5(mL)
Date Analyzed: 07/09/2024 01:24

Soil Aliquot Vol:
Dilution Factor: 1

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

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 525820
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP20

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	0.33	J	1.0	0.30
75-01-4	Vinyl chloride	ND	^c cn	1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		80-120
2037-26-5	Toluene-d8 (Surr)	90		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X44.D
Lims ID: 410-177862-A-2
Client ID: HD-MW-167-0/1-0
Sample Type: Client
Inject. Date: 09-Jul-2024 01:24:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118782-015
Operator ID: MEC29284 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2024 14:46:24 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: QD9U Date: 09-Jul-2024 14:47:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.059				ND	
6 Vinyl chloride	62		2.152				ND	
8 Bromomethane	94		2.481				ND	
9 Chloroethane	64		2.560				ND	
18 Acetone	58		3.346				ND	
17 1,1-Dichloroethene	96		3.361				ND	
22 Carbon disulfide	76		3.682				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.969	3.968	0.000	26	322700	250.0	
27 Methylene Chloride	84		3.975				ND	
30 Methyl tert-butyl ether	73		4.347				ND	
31 trans-1,2-Dichloroethene	96		4.369				ND	
34 1,1-Dichloroethane	63		5.019				ND	
40 2-Butanone (MEK)	43		5.820				ND	
41 cis-1,2-Dichloroethene	96		5.863				ND	
48 Chlorobromomethane	128		6.199				ND	
51 Chloroform	83		6.349				ND	7
$ 52 Dibromofluoromethane (Surr)	113	6.571	6.571	0.000	93	183101	52.3	
53 1,1,1-Trichloroethane	97		6.592				ND	
56 Carbon tetrachloride	117		6.821				ND	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.036	7.029	0.007	83	44656	50.2	
59 Benzene	78		7.064				ND	
60 1,2-Dichloroethane	62		7.143				ND	
* 63 Fluorobenzene (IS)	96	7.479	7.479	0.000	99	737451	50.0	
67 Trichloroethene	95	7.980	7.972	0.008	31	1222	0.3345	
70 1,2-Dichloropropane	63		8.301				ND	
76 Dichlorobromomethane	83		8.652				ND	
79 cis-1,3-Dichloropropene	75		9.217				ND	
80 4-Methyl-2-pentanone (MIBK)	43		9.381				ND	
$ 81 Toluene-d8 (Surr)	98	9.539	9.538	0.001	93	621502	44.9	
82 Toluene	92		9.617				ND	
83 trans-1,3-Dichloropropene	75		9.882				ND	
126 1,1,2-Trichloroethane	97		10.089				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
127 Tetrachloroethene	166	10.189	10.189	0.000	86	6252	1.67	
129 2-Hexanone	43		10.303				ND	
132 Chlorodibromomethane	129		10.482				ND	
133 Ethylene Dibromide	107		10.597				ND	
* 134 Chlorobenzene-d5 (IS)	117	11.033	11.033	0.000	86	530616	50.0	
136 Chlorobenzene	112		11.061				ND	
137 1,1,1,2-Tetrachloroethane	131		11.147				ND	
138 Ethylbenzene	91		11.147				ND	7
S 139 Xylenes, Total	106		11.245				ND	7
140 m-Xylene & p-Xylene	106		11.269				ND	
142 o-Xylene	106		11.598				ND	
143 Styrene	104		11.619				ND	
144 Bromoform	173		11.776				ND	
$ 148 4-Bromofluorobenzene (Surr)	95	12.055	12.055	0.000	88	257131	47.4	
149 1,1,2,2-Tetrachloroethane	83		12.148				ND	
* 164 1,4-Dichlorobenzene-d4	152	12.942	12.942	0.000	96	293050	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00137 Amount Added: 1.00 Units: uL Run Reagent

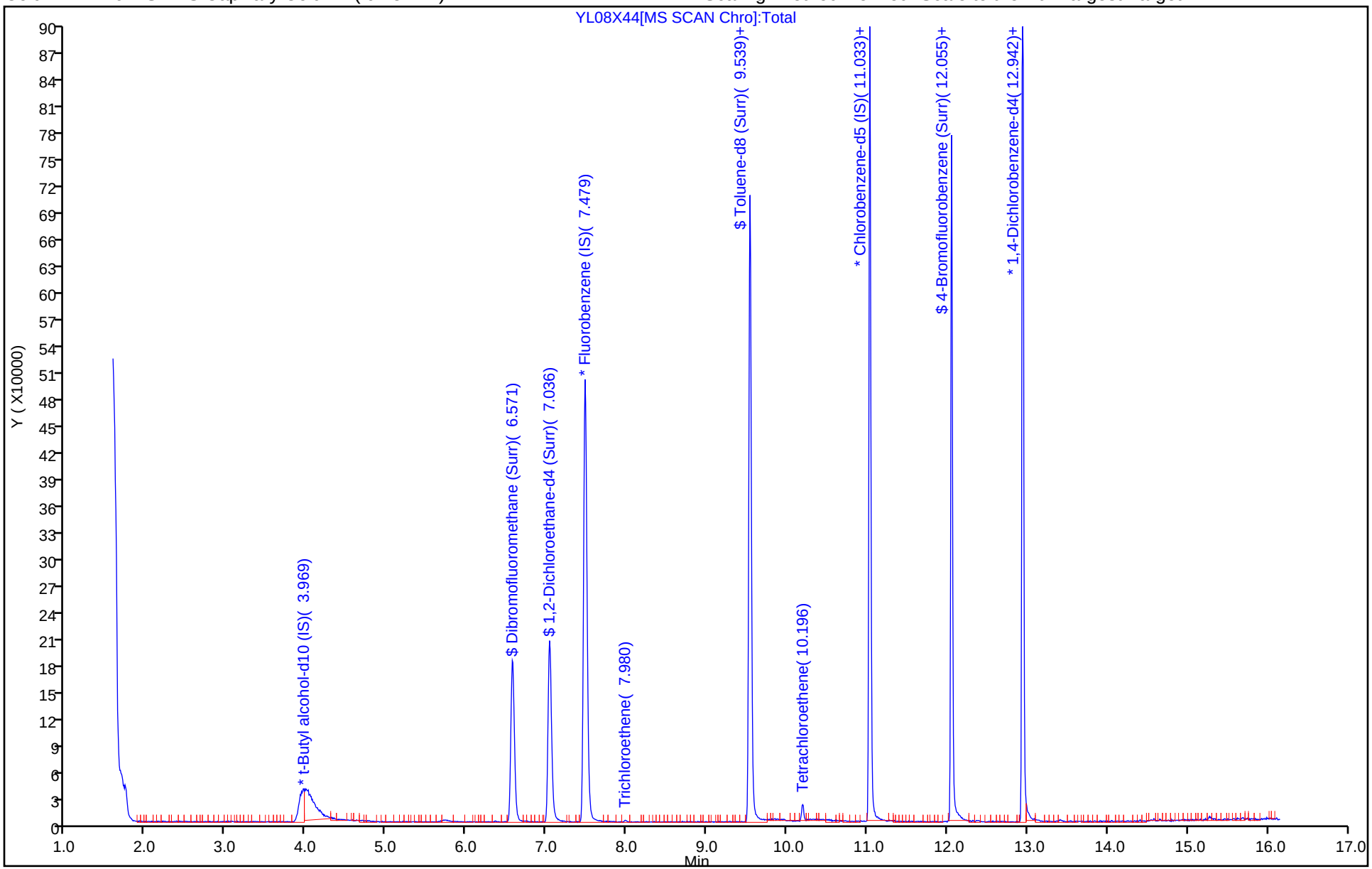
Report Date: 09-Jul-2024 14:47:08 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X44.D

Injection Date:	09-Jul-2024 01:24:30	Instrument ID:	9355	Operator ID:	MEC29284
Lims ID:	410-177862-A-2	Lab Sample ID:	410-177862-2	Worklist Smp#:	15
Client ID:	HD-MW-167-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X44.D				
Lims ID:	410-177862-A-2				
Client ID:	HD-MW-167-0/1-0				
Sample Type:	Client				
Inject. Date:	09-Jul-2024 01:24:30	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0118782-015				
Operator ID:	MEC29284	Instrument ID:	9355		
Method:	\\chromfs\Lancaster\ChromData\9355\20240708-118782.b\MSVoa_9355.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Jul-2024 14:46:24	Calib Date:	25-Mar-2024 20:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1617				

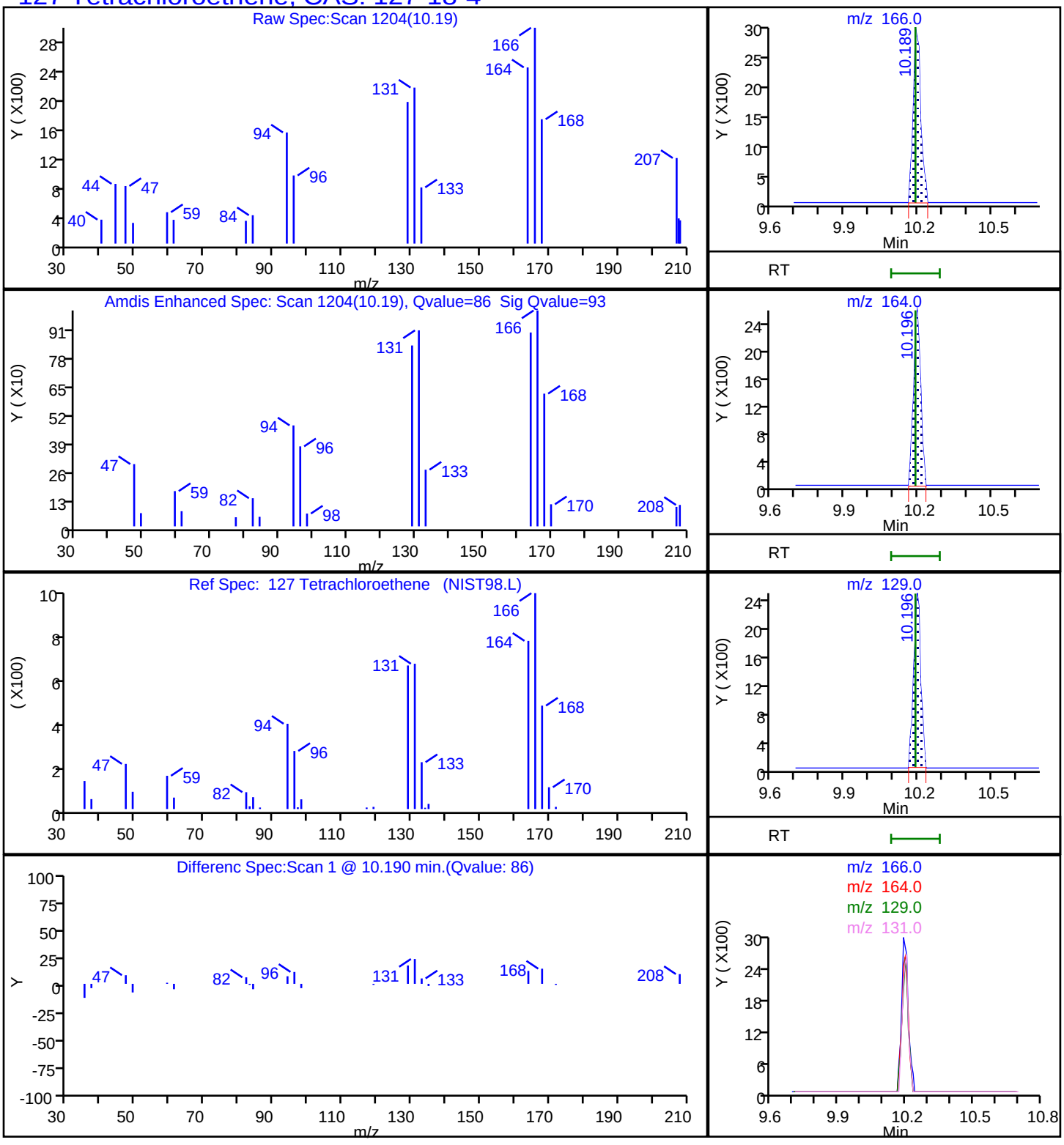
First Level Reviewer: QD9U Date: 09-Jul-2024 14:47:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	52.3	104.54
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	50.2	100.39
$ 81 Toluene-d8 (Surr)	50.0	44.9	89.87
$ 148 4-Bromofluorobenzene (Surr)	50.0	47.4	94.81

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X44.D				
Injection Date:	09-Jul-2024 01:24:30	Instrument ID:	9355		
Lims ID:	410-177862-A-2	Lab Sample ID:	410-177862-2		
Client ID:	HD-MW-167-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

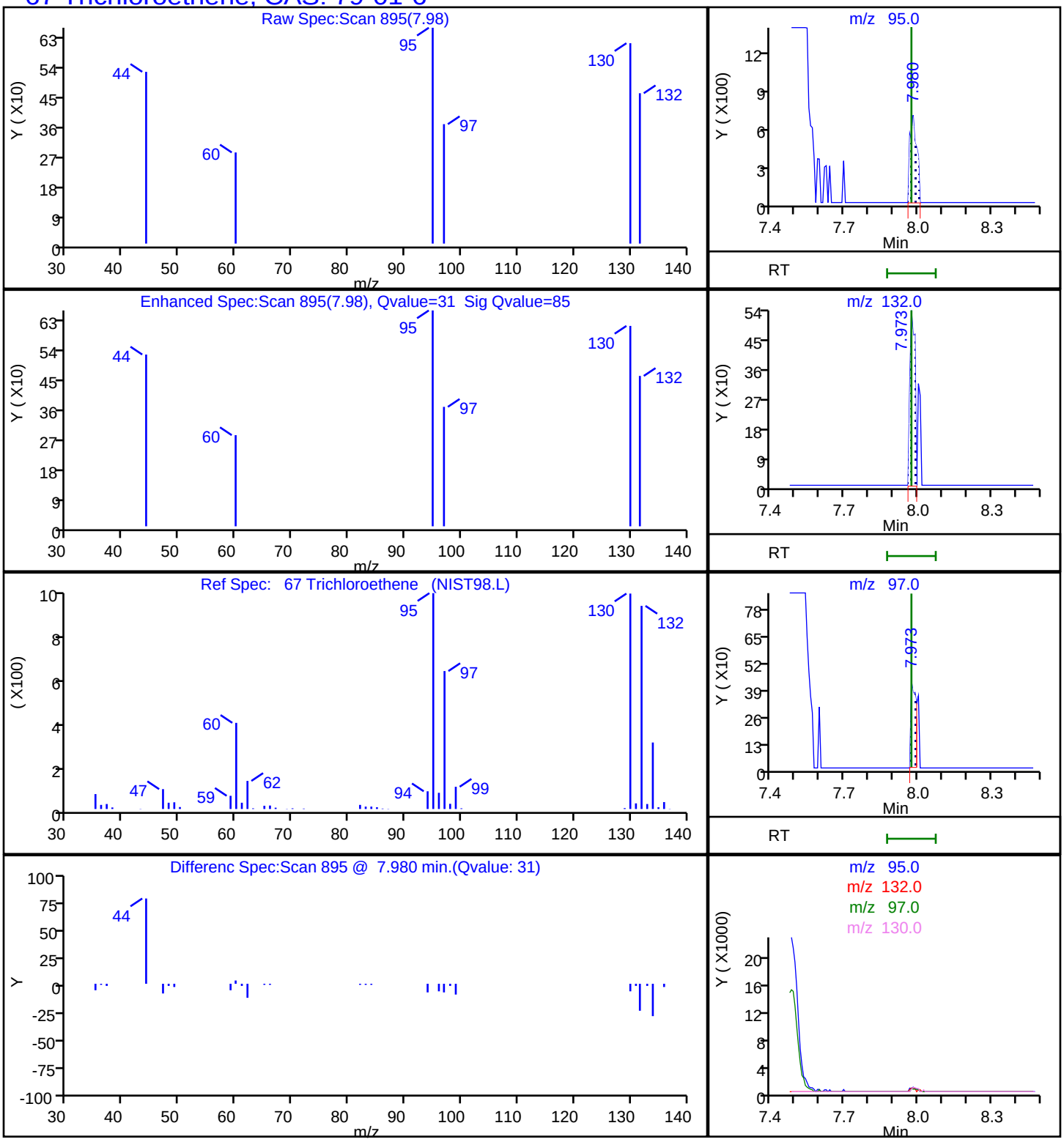
127 Tetrachloroethene, CAS: 127-18-4



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X44.D				
Injection Date:	09-Jul-2024 01:24:30	Instrument ID:	9355		
Lims ID:	410-177862-A-2	Lab Sample ID:	410-177862-2		
Client ID:	HD-MW-167-0/1-0				
Operator ID:	MEC29284	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

67 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177862-1

SDG No.:

Client Sample ID: HD-MW-168-0/1-0
Lab Sample ID: 410-177862-3

Matrix: Water
Lab File ID: YL08X45.D

Analysis Method: 8260D
Date Collected: 06/26/2024 09:00

Sample wt/vol: 5(mL)
Date Analyzed: 07/09/2024 01:47

Soil Aliquot Vol:
Dilution Factor: 1

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

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 525820
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP20

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND	^c cn	2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177862-1

SDG No.:

Client Sample ID: HD-MW-168-0/1-0
Lab Sample ID: 410-177862-3

Matrix: Water
Lab File ID: YL08X45.D

Analysis Method: 8260D
Date Collected: 06/26/2024 09:00

Sample wt/vol: 5(mL)
Date Analyzed: 07/09/2024 01:47

Soil Aliquot Vol:
Dilution Factor: 1

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

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 525820
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP20

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND	^c cn	1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	114		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X45.D
Lims ID: 410-177862-A-3
Client ID: HD-MW-168-0/1-0
Sample Type: Client
Inject. Date: 09-Jul-2024 01:47:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118782-016
Operator ID: MEC29284 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2024 14:46:24 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: QD9U Date: 09-Jul-2024 14:47:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		2.059				ND	
6 Vinyl chloride	62		2.152				ND	
8 Bromomethane	94		2.481				ND	
9 Chloroethane	64		2.560				ND	
18 Acetone	58		3.346				ND	
17 1,1-Dichloroethene	96		3.361				ND	
22 Carbon disulfide	76		3.682				ND	
* 26 t-Butyl alcohol-d10 (IS)	65	3.968	3.968	0.000	30	309412	250.0	
27 Methylene Chloride	84		3.975				ND	7
30 Methyl tert-butyl ether	73		4.347				ND	
31 trans-1,2-Dichloroethene	96		4.369				ND	
34 1,1-Dichloroethane	63		5.019				ND	
40 2-Butanone (MEK)	43		5.820				ND	
41 cis-1,2-Dichloroethene	96		5.863				ND	
48 Chlorobromomethane	128		6.199				ND	
51 Chloroform	83		6.349				ND	7
$ 52 Dibromofluoromethane (Surr)	113	6.571	6.571	0.000	93	176486	57.2	
53 1,1,1-Trichloroethane	97		6.592				ND	
56 Carbon tetrachloride	117		6.821				ND	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.036	7.029	0.007	83	43898	56.1	
59 Benzene	78		7.064				ND	
60 1,2-Dichloroethane	62		7.143				ND	
* 63 Fluorobenzene (IS)	96	7.479	7.479	0.000	99	649183	50.0	
67 Trichloroethene	95		7.972				ND	
70 1,2-Dichloropropane	63		8.301				ND	
76 Dichlorobromomethane	83		8.652				ND	
79 cis-1,3-Dichloropropene	75		9.217				ND	
80 4-Methyl-2-pentanone (MIBK)	43		9.381				ND	
$ 81 Toluene-d8 (Surr)	98	9.538	9.538	0.000	94	666974	50.7	
82 Toluene	92		9.617				ND	
83 trans-1,3-Dichloropropene	75		9.882				ND	
126 1,1,2-Trichloroethane	97		10.089				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
127 Tetrachloroethene	166		10.189				ND	
129 2-Hexanone	43		10.303				ND	
132 Chlorodibromomethane	129		10.482				ND	
133 Ethylene Dibromide	107		10.597				ND	
* 134 Chlorobenzene-d5 (IS)	117	11.033	11.033	0.000	86	504385	50.0	
136 Chlorobenzene	112		11.061				ND	
137 1,1,1,2-Tetrachloroethane	131		11.147				ND	
138 Ethylbenzene	91		11.147				ND	
S 139 Xylenes, Total	106		11.245				ND	7
140 m-Xylene & p-Xylene	106		11.269				ND	
142 o-Xylene	106		11.598				ND	
143 Styrene	104		11.619				ND	
144 Bromoform	173		11.776				ND	
$ 148 4-Bromofluorobenzene (Surr)	95	12.055	12.055	0.000	90	233949	45.4	
149 1,1,2,2-Tetrachloroethane	83		12.148				ND	
* 164 1,4-Dichlorobenzene-d4	152	12.942	12.942	0.000	96	298611	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP20_ISSS_00137 Amount Added: 1.00 Units: uL Run Reagent

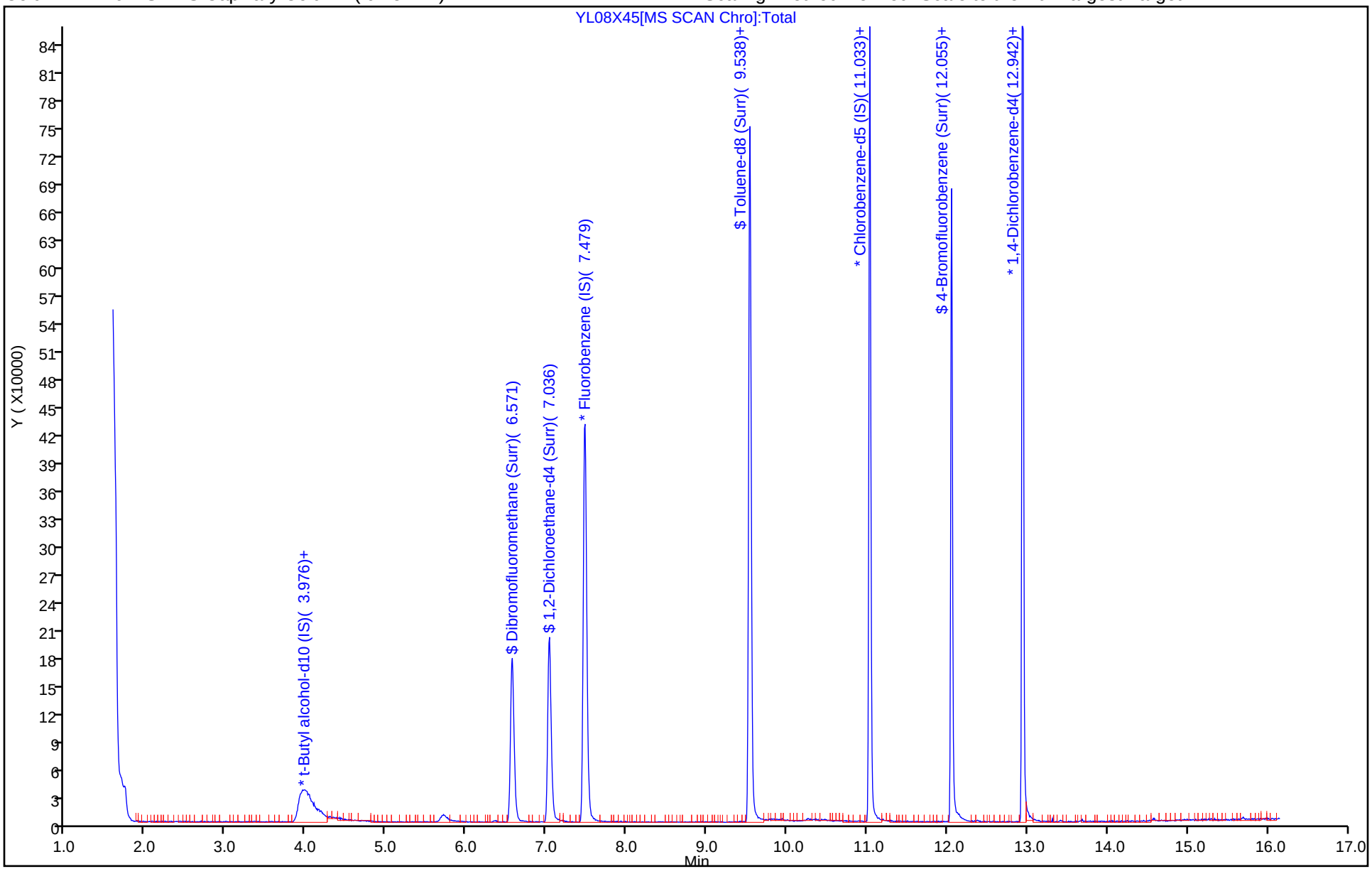
Report Date: 09-Jul-2024 14:47:40 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X45.D

Injection Date:	09-Jul-2024 01:47:30	Instrument ID:	9355	Operator ID:	MEC29284
Lims ID:	410-177862-A-3	Lab Sample ID:	410-177862-3	Worklist Smp#:	16
Client ID:	HD-MW-168-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X45.D
Lims ID: 410-177862-A-3
Client ID: HD-MW-168-0/1-0
Sample Type: Client
Inject. Date: 09-Jul-2024 01:47:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118782-016
Operator ID: MEC29284 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2024 14:46:24 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: QD9U Date: 09-Jul-2024 14:47:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	57.2	114.47
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	56.1	112.10
$ 81 Toluene-d8 (Surr)	50.0	50.7	101.46
$ 148 4-Bromofluorobenzene (Surr)	50.0	45.4	90.75

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1 Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 13:30 Calibration End Date: 03/25/2024 15:21 Calibration ID: 59884

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-486676/3	YM25X02.D
Level 2	IC 410-486676/4	YM25X03.D
Level 3	IC 410-486676/5	YM25X04.D
Level 4	IC 410-486676/6	YM25X05.D
Level 5	IC 410-486676/7	YM25X06.D
Level 6	IC 410-486676/8	YM25X07.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	0.1952 0.1882	0.1675	0.0974	0.1803	0.1936	Ave		0.1704				21.8	*	20.0			
Chlorodifluoromethane	4.4536 3.8667	4.0253	2.8185	3.9008	4.0553	Ave		3.8534				14.2		20.0			
Freon 133a	0.3289 0.3188	0.3028	0.2317	0.3117	0.3334	Ave		0.3046				12.3		20.0			
Ethanol	0.0802 0.0776	0.0764	0.0857	0.0861	0.0844	Ave		0.0817				5.2		20.0			
Acetonitrile	0.9768 0.8003	0.8471	0.8334	0.7220	0.7803	Ave		0.8267				10.4		20.0			
Vinyl acetate	0.6319 0.6350	0.5734	0.5880	0.5050	0.6070	Ave		0.5900				8.2		20.0			
Ethyl acetate	0.3872 0.3911	0.3193	0.3583	0.3040	0.3690	Ave		0.3548				10.1		20.0			
Isopropyl acetate	0.6759 0.7218	0.6427	0.6728	0.5765	0.6820	Ave		0.6620				7.4		20.0			
n-Propyl acetate	0.1363 0.1586	0.1305	0.1396	0.1215	0.1460	Ave		0.1388				9.2		20.0			
3,4-Dichloro-1-butene	0.3195 0.3935	0.3523	0.3449	0.3510	0.3763	Ave		0.3563				7.2		20.0			
Butyl acetate	0.7281 0.7912	0.7072	0.7484	0.6448	0.7699	Ave		0.7316				7.1		20.0			
cis-1,4-Dichloro-2-butene	0.1648 0.2288	0.1854	0.1821	0.1966	0.2137	Ave		0.1952				11.8		20.0			
Pentachloroethane	0.2914 0.4383	0.3296	0.3498	0.3192	0.3972	Ave		0.3542				15.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1 Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 13:30 Calibration End Date: 03/25/2024 15:21 Calibration ID: 59884

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-486676/3	YM25X02.D
Level 2	IC 410-486676/4	YM25X03.D
Level 3	IC 410-486676/5	YM25X04.D
Level 4	IC 410-486676/6	YM25X05.D
Level 5	IC 410-486676/7	YM25X06.D
Level 6	IC 410-486676/8	YM25X07.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	FB	Ave	13132 943490	28246	32083	150187	321284	4.00 300	10.0	20.0	50.0	100
Chlorodifluoromethane	TBAd10	Ave	28788 1982669	64035	91538	317092	675327	4.00 300	10.0	20.0	50.0	100
Freon 133a	FB	Ave	22125 1598098	51078	76320	259690	553250	4.00 300	10.0	20.0	50.0	100
Ethanol	TBAd10	Ave	32417 994667	60771	139176	174872	351154	250 7500	500	1000	1250	2500
Acetonitrile	TBAd10	Ave	31570 2051674	67377	135338	293458	649754	20.0 1500	50.0	100	250	500
Vinyl acetate	FB	Ave	42502 3183535	96704	193628	420767	1007348	4.00 300	10.0	20.0	50.0	100
Ethyl acetate	FB	Ave	26045 1960639	53862	117982	253255	612414	4.00 300	10.0	20.0	50.0	100
Isopropyl acetate	FB	Ave	45460 3618719	108398	221569	480346	1131851	4.00 300	10.0	20.0	50.0	100
n-Propyl acetate	FB	Ave	9170 795082	22017	45985	101254	242228	4.00 300	10.0	20.0	50.0	100
3,4-Dichloro-1-butene	CBZd5	Ave	15839 1481600	44316	85097	217782	466812	4.00 300	10.0	20.0	50.0	100
Butyl acetate	CBZd5	Ave	36074 2977840	88927	184565	399807	954487	4.00 300	10.0	20.0	50.0	100
cis-1,4-Dichloro-2-butene	CBZd5	Ave	8166 861292	23315	44923	121974	265058	4.00 300	10.0	20.0	50.0	100
Pentachloroethane	DCBd4	Ave	9024 1010549	25861	54628	122767	302840	4.00 300	10.0	20.0	50.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC | Job No.: 410-177862-1 | Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 | GC Column: R-624SilMS | ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 13:30 | Calibration End Date: 03/25/2024 15:21 | Calibration ID: 59884

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 Environment Testing, LLC | Job No.: 410-177862-1 | Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 | GC Column: R-624SilMS 3 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 13:30 | Calibration End Date: 03/25/2024 15:21 | Calibration ID: 59884

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-486676/3	YM25X02.D
Level 2	IC 410-486676/4	YM25X03.D
Level 3	IC 410-486676/5	YM25X04.D
Level 4	IC 410-486676/6	YM25X05.D
Level 5	IC 410-486676/7	YM25X06.D
Level 6	IC 410-486676/8	YM25X07.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Chlorotrifluoroethene	14.6	-1.7	-42.8 *	5.8	13.6	10.5	50	30	30	30	30	30
Chlorodifluoromethane	15.6	4.5	-26.9	1.2	5.2	0.3	50	30	30	30	30	30
Freon 133a	8.0	-0.6	-23.9	2.3	9.5	4.7	50	30	30	30	30	30
Ethanol	-1.8	-6.5	4.9	5.3	3.2	-5.1	50	30	30	30	30	30
Acetonitrile	18.2	2.5	0.8	-12.7	-5.6	-3.2	50	30	30	30	30	30
Vinyl acetate	7.1	-2.8	-0.4	-14.4	2.9	7.6	50	30	30	30	30	30
Ethyl acetate	9.1	-10.0	1.0	-14.3	4.0	10.2	50	30	30	30	30	30
Isopropyl acetate	2.1	-2.9	1.6	-12.9	3.0	9.0	50	30	30	30	30	30
n-Propyl acetate	-1.8	-5.9	0.6	-12.4	5.2	14.3	50	30	30	30	30	30
3,4-Dichloro-1-butene	-10.3	-1.1	-3.2	-1.5	5.6	10.4	50	30	30	30	30	30
Butyl acetate	-0.5	-3.3	2.3	-11.9	5.2	8.1	50	30	30	30	30	30
cis-1,4-Dichloro-2-butene	-15.6	-5.1	-6.7	0.7	9.5	17.2	50	30	30	30	30	30
Pentachloroethane	-17.7	-7.0	-1.3	-9.9	12.1	23.7	50	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X02.D
Lims ID: IC sm v4
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 25-Mar-2024 13:30:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0109476-003
Misc. Info.: IC 4
Operator ID: knk41612 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub48

Method: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 25-Mar-2024 22:24:37 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1656

First Level Reviewer: K4WN Date: 25-Mar-2024 19:32:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.816	1.816	0.000	91	13132	4.00	4.58	
3 Chlorodifluoromethane	51	1.866	1.859	0.007	97	28788	4.00	4.62	
7 2-Chloro-1,1,1-Trifluoroethane	118	2.231	2.224	0.007	34	22125	4.00	4.32	
13 Ethanol	45	3.032	2.903	0.129	86	32417	250.0	245.4	Ma
23 Acetonitrile	41	3.711	3.689	0.022	99	31570	20.0	23.6	M
* 26 t-Butyl alcohol-d10 (IS)	65	3.954	3.940	0.014	27	403996	250.0	250.0	M
35 Vinyl acetate	43	5.048	5.027	0.021	98	42502	4.00	4.28	
44 Ethyl acetate	43	5.928	5.913	0.015	99	26045	4.00	4.37	
61 Isopropyl acetate	43	7.165	7.157	0.008	99	45460	4.00	4.08	
* 63 Fluorobenzene (IS)	96	7.493	7.486	0.007	99	840767	50.0	50.0	
75 n-Propyl acetate	61	8.480	8.473	0.007	97	9170	4.00	3.93	
130 3,4-Dichloro-1-butene	75	10.303	10.303	0.000	90	15839	4.00	3.59	
131 n-Butyl acetate	43	10.454	10.446	0.008	98	36074	4.00	3.98	
* 134 Chlorobenzene-d5 (IS)	117	11.040	11.040	0.000	85	619281	50.0	50.0	
146 cis-1,4-Dichloro-2-butene	88	11.955	11.955	0.000	0	8166	4.00	3.38	
159 Pentachloroethane	167	12.656	12.656	0.000	88	9024	4.00	3.29	
* 164 1,4-Dichlorobenzene-d4	152	12.949	12.949	0.000	95	387054	50.0	50.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MSV_CCV_V5ACE_00034	Amount Added:	4.00	Units: uL
MSV_CCV_LKB_00009	Amount Added:	4.00	Units: uL
MSV_V_SMFreon_00036	Amount Added:	2.00	Units: uL
MSV_CCV_ETOH_00005	Amount Added:	20.00	Units: uL
MSV_CCV_Penta_00046	Amount Added:	4.00	Units: uL
MSV_HP20_ISO_00010	Amount Added:	1.00	Units: uL

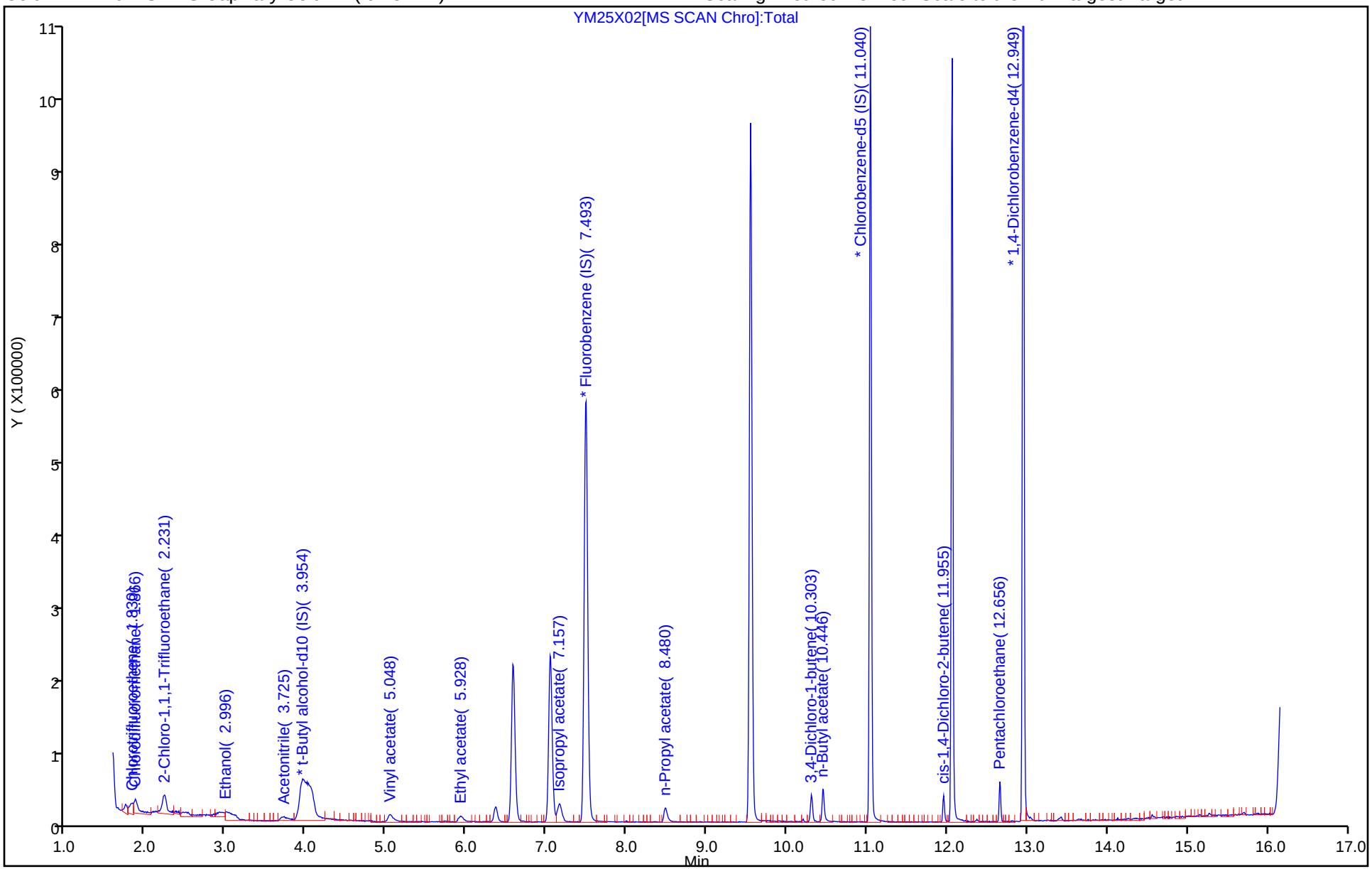
Report Date: 25-Mar-2024 22:24:38 Chrom Revision: 2.3 20-Mar-2024 17:23:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X02.D

Injection Date:	25-Mar-2024 13:30:30	Instrument ID:	9355	Operator ID:	knk41612
Lims ID:	IC sm v4			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

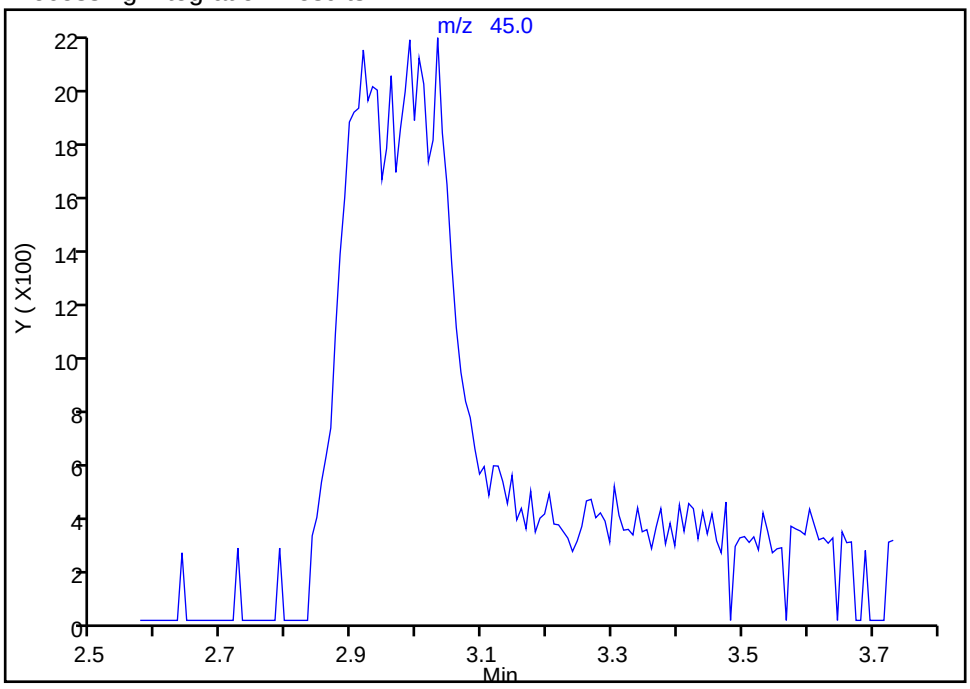
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X02.D
Injection Date: 25-Mar-2024 13:30:30 Instrument ID: 9355
Lims ID: IC sm v4
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

13 Ethanol, CAS: 64-17-5

Signal: 1

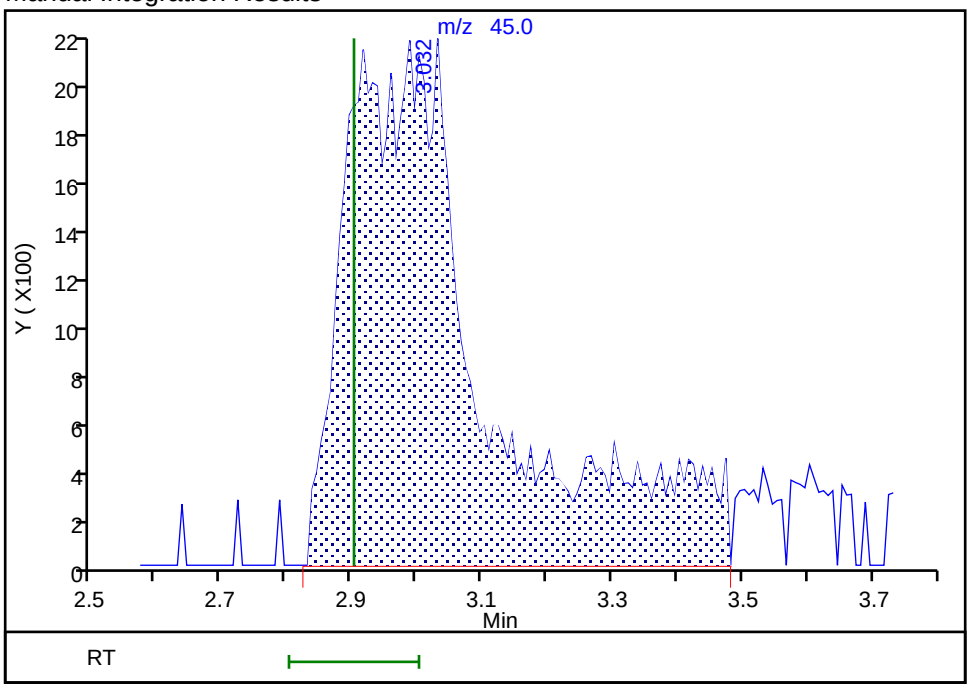
Not Detected
Expected RT: 2.90

Processing Integration Results



Manual Integration Results

RT: 3.03
Area: 32417
Amount: 245.4487
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:31:26 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

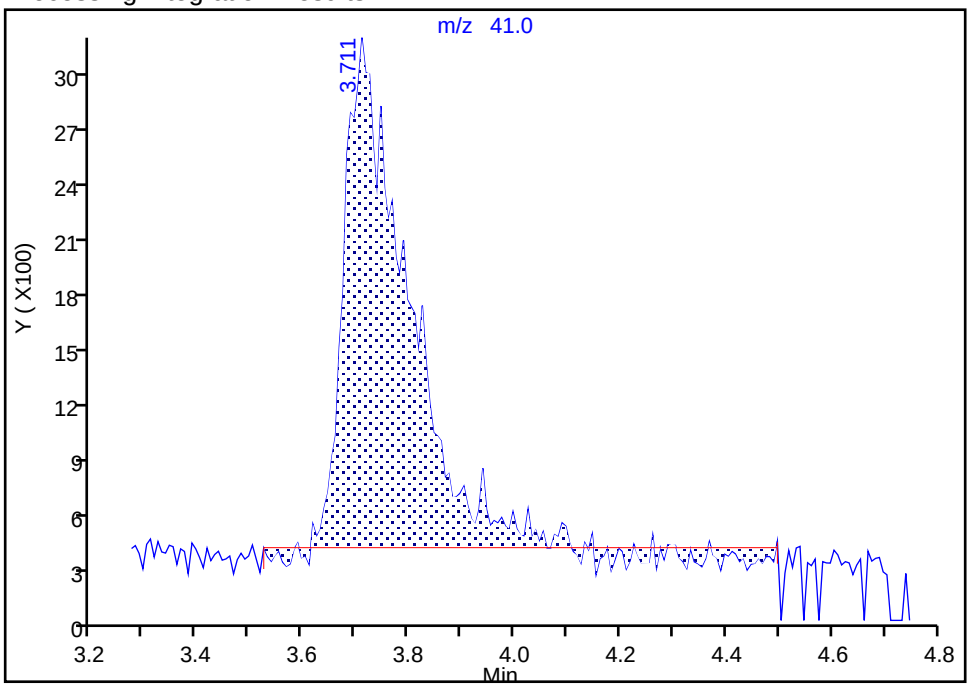
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X02.D
Injection Date: 25-Mar-2024 13:30:30 Instrument ID: 9355
Lims ID: IC sm v4
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

23 Acetonitrile, CAS: 75-05-8

Signal: 1

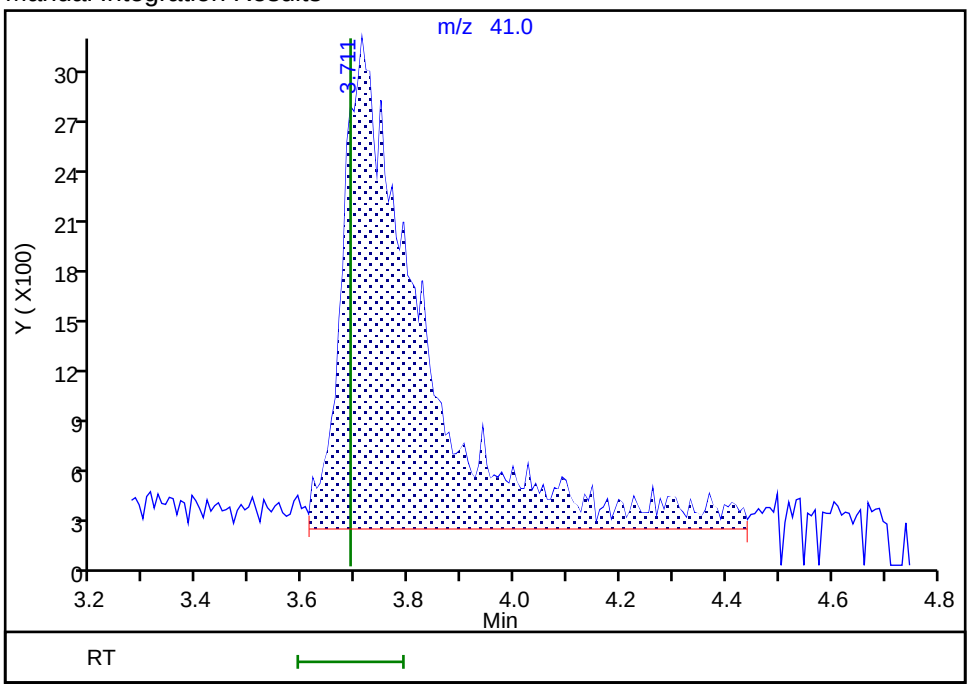
Processing Integration Results

RT: 3.71
Area: 21916
Amount: 18.363116
Amount Units: ug/l



Manual Integration Results

RT: 3.71
Area: 31570
Amount: 23.632642
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:31:50 -04:00:00 (UTC)
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

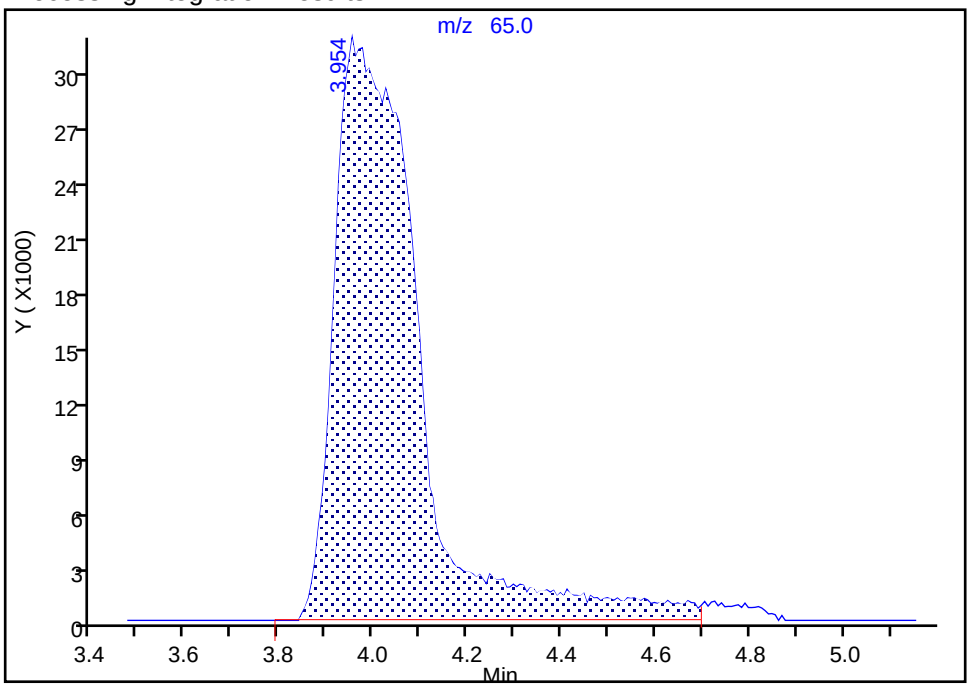
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X02.D
Injection Date: 25-Mar-2024 13:30:30 Instrument ID: 9355
Lims ID: IC sm v4
Client ID:
Operator ID: knk41612 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

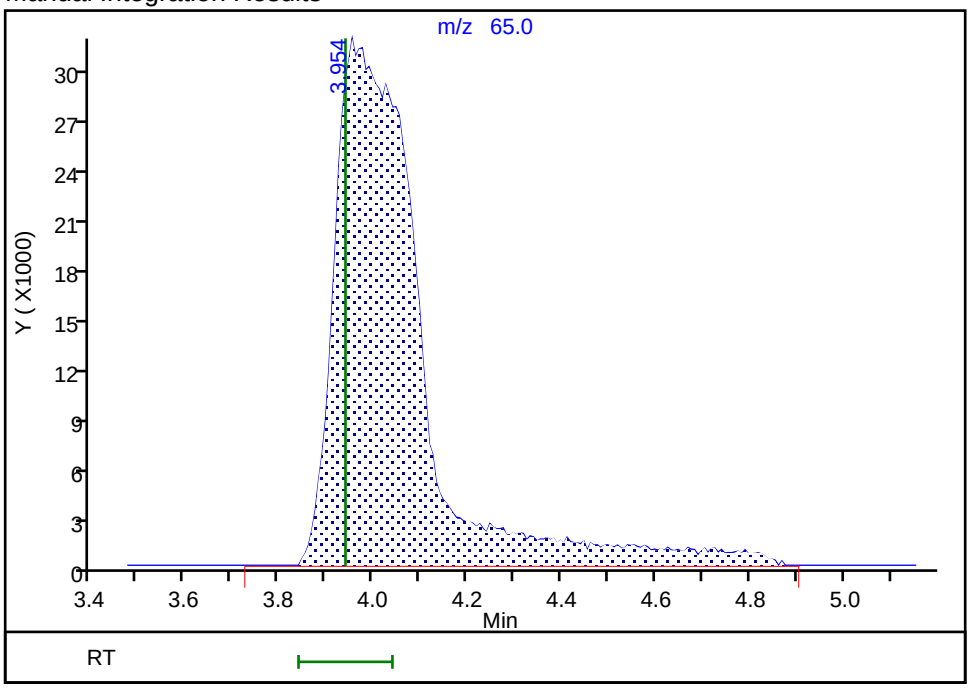
Processing Integration Results

RT: 3.95
Area: 396892
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 3.95
Area: 403996
Amount: 250.0000
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:31:57 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X03.D
Lims ID: IC sm v10
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 25-Mar-2024 13:52:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0109476-004
Misc. Info.: IC 10
Operator ID: knk41612 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub48

Method: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 25-Mar-2024 22:24:41 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1656

First Level Reviewer: K4WN Date: 25-Mar-2024 19:33:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.816	1.816	0.000	92	28246	10.0	9.83	
3 Chlorodifluoromethane	51	1.859	1.859	0.000	97	64035	10.0	10.4	
7 2-Chloro-1,1,1-Trifluoroethane	118	2.217	2.224	-0.007	34	51078	10.0	9.94	
13 Ethanol	45	2.903	2.903	0.000	99	60771	500.0	467.4	
23 Acetonitrile	41	3.697	3.689	0.008	100	67377	50.0	51.2	M
* 26 t-Butyl alcohol-d10 (IS)	65	3.954	3.940	0.014	27	397700	250.0	250.0	M
35 Vinyl acetate	43	5.034	5.027	0.007	97	96704	10.0	9.72	
44 Ethyl acetate	43	5.920	5.913	0.007	99	53862	10.0	9.00	
61 Isopropyl acetate	43	7.150	7.157	-0.007	98	108398	10.0	9.71	
* 63 Fluorobenzene (IS)	96	7.486	7.486	0.000	99	843324	50.0	50.0	
75 n-Propyl acetate	61	8.473	8.473	0.000	98	22017	10.0	9.41	
130 3,4-Dichloro-1-butene	75	10.304	10.303	0.001	90	44316	10.0	9.89	
131 n-Butyl acetate	43	10.447	10.446	0.001	98	88927	10.0	9.67	
* 134 Chlorobenzene-d5 (IS)	117	11.040	11.040	0.000	85	628689	50.0	50.0	
146 cis-1,4-Dichloro-2-butene	88	11.955	11.955	0.000	0	23315	10.0	9.50	
159 Pentachloroethane	167	12.656	12.656	0.000	89	25861	10.0	9.30	
* 164 1,4-Dichlorobenzene-d4	152	12.949	12.949	0.000	95	392362	50.0	50.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00034	Amount Added:	2.00	Units: uL
MSV_CCV_LKB_00009	Amount Added:	2.00	Units: uL
MSV_V_SMFreon_00036	Amount Added:	1.00	Units: uL
MSV_CCV_ETOH_00005	Amount Added:	8.00	Units: uL
MSV_CCV_Penta_00046	Amount Added:	2.00	Units: uL
MSV_HP20_ISO_00010	Amount Added:	1.00	Units: uL

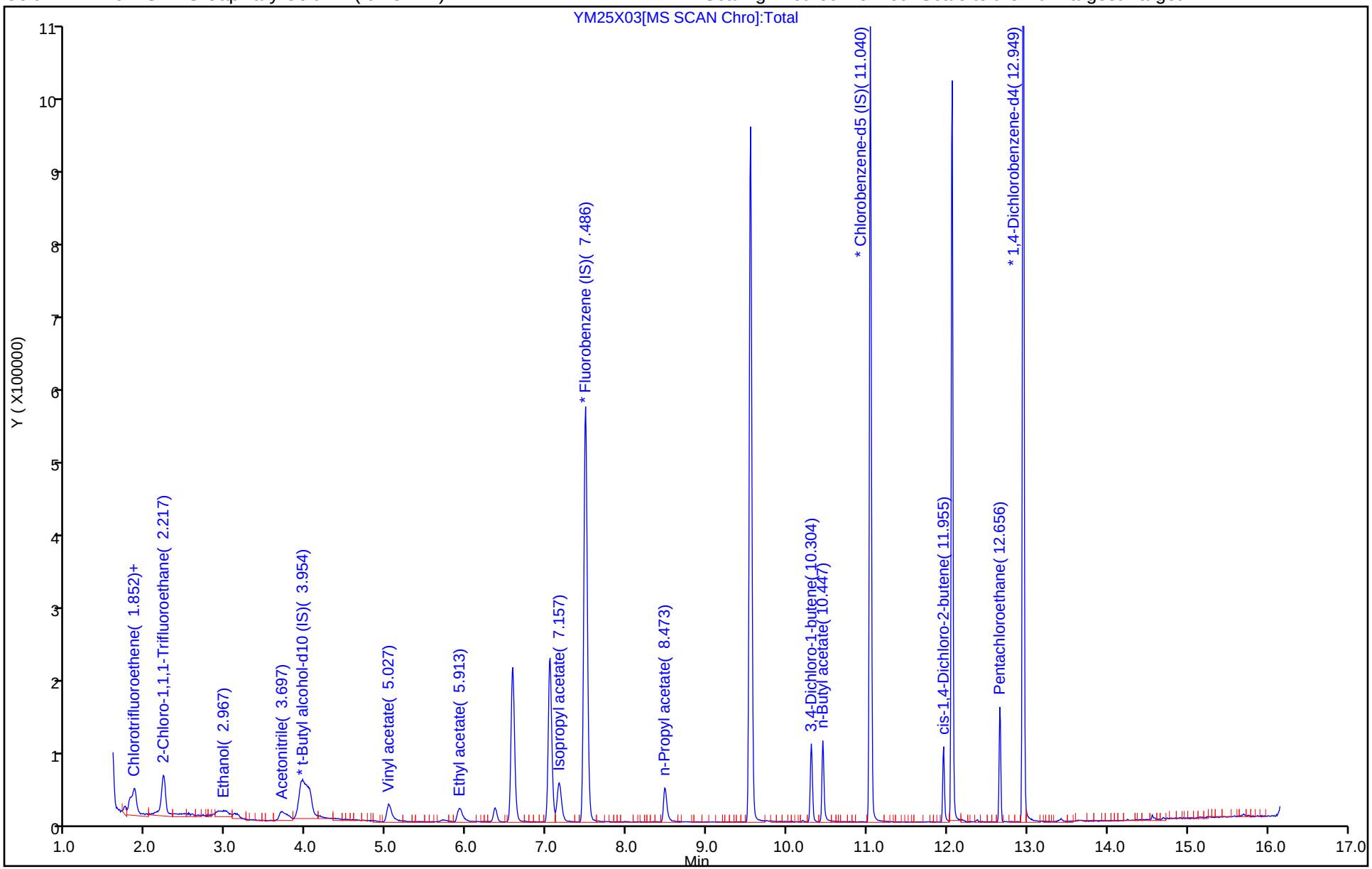
Report Date: 25-Mar-2024 22:24:41 Chrom Revision: 2.3 20-Mar-2024 17:23:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X03.D

Injection Date:	25-Mar-2024 13:52:30	Instrument ID:	9355	Operator ID:	knk41612
Lims ID:	IC sm v10			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

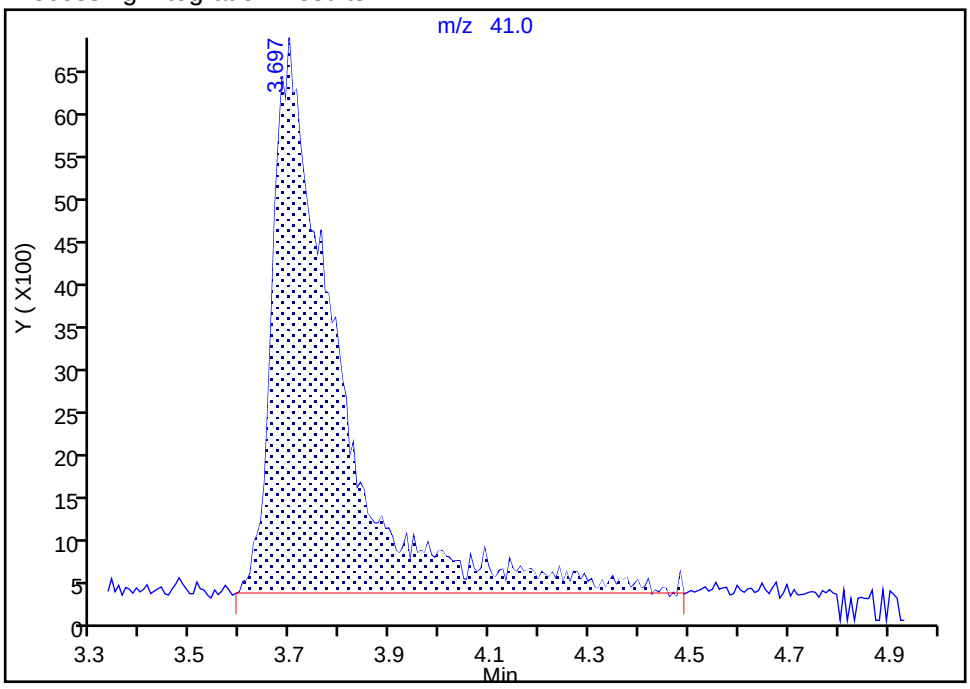
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X03.D				
Injection Date:	25-Mar-2024 13:52:30	Instrument ID:	9355		
Lims ID:	IC sm v10				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

23 Acetonitrile, CAS: 75-05-8

Signal: 1

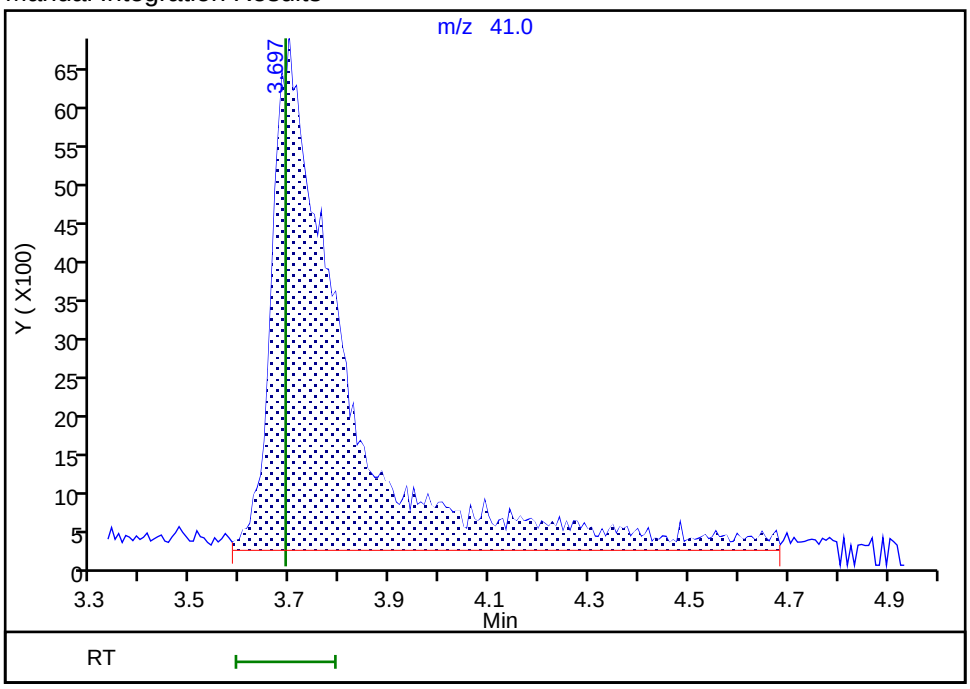
Processing Integration Results

RT: 3.70
Area: 59195
Amount: 47.386574
Amount Units: ug/l



Manual Integration Results

RT: 3.70
Area: 67377
Amount: 51.235483
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:32:55 -04:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

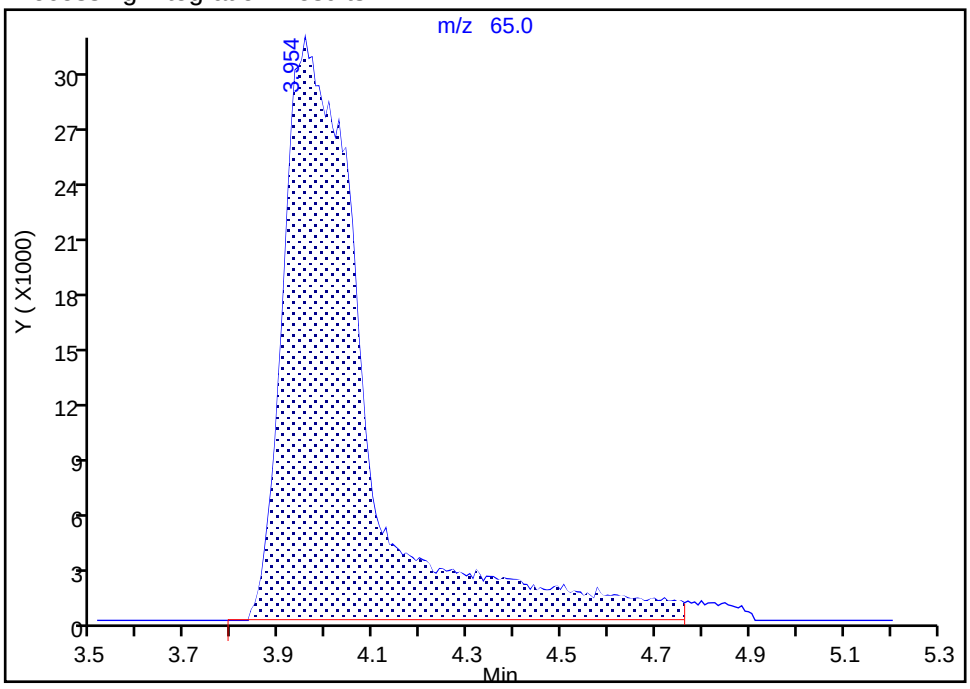
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X03.D
Injection Date: 25-Mar-2024 13:52:30 Instrument ID: 9355
Lims ID: IC sm v10
Client ID:
Operator ID: knk41612 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

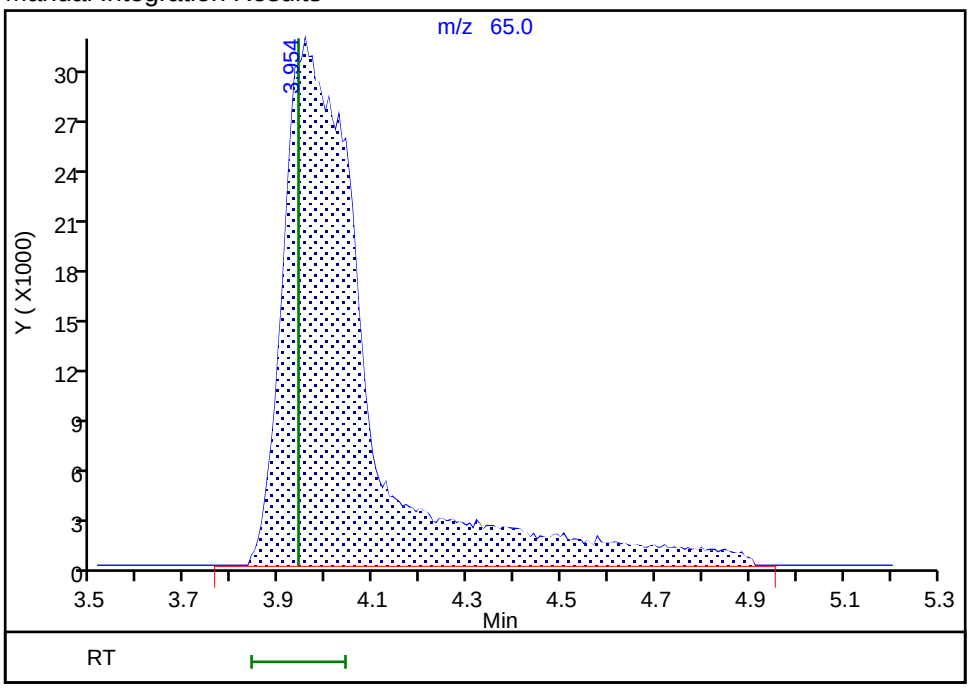
Processing Integration Results

RT: 3.95
Area: 390604
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 3.95
Area: 397700
Amount: 250.0000
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:33:01 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X04.D
Lims ID: IC sm v20
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 25-Mar-2024 14:14:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0109476-005
Misc. Info.: IC 20
Operator ID: knk41612 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub48

Method: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 25-Mar-2024 22:24:44 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1656

First Level Reviewer: K4WN Date: 25-Mar-2024 19:33:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.809	1.809	0.000	93	32083	20.0	11.4	
3 Chlorodifluoromethane	51	1.859	1.859	0.000	97	91538	20.0	14.6	
7 2-Chloro-1,1,1-Trifluoroethane	118	2.217	2.217	0.000	35	76320	20.0	15.2	
13 Ethanol	45	2.896	2.896	0.000	96	139176	999.9	1048.7	M
23 Acetonitrile	41	3.690	3.690	0.000	100	135338	100.0	100.8	M
* 26 t-Butyl alcohol-d10 (IS)	65	3.947	3.947	0.000	26	405967	250.0	250.0	M
35 Vinyl acetate	43	5.027	5.027	0.000	97	193628	20.0	19.9	
44 Ethyl acetate	43	5.906	5.906	0.000	99	117982	20.0	20.2	
61 Isopropyl acetate	43	7.158	7.158	0.000	98	221569	20.0	20.3	
* 63 Fluorobenzene (IS)	96	7.486	7.486	0.000	99	823318	50.0	50.0	
75 n-Propyl acetate	61	8.473	8.473	0.000	99	45985	20.0	20.1	
130 3,4-Dichloro-1-butene	75	10.304	10.304	0.000	91	85097	20.0	19.4	
131 n-Butyl acetate	43	10.447	10.447	0.000	98	184565	20.0	20.5	
* 134 Chlorobenzene-d5 (IS)	117	11.040	11.040	0.000	85	616542	50.0	50.0	
146 cis-1,4-Dichloro-2-butene	88	11.955	11.955	0.000	0	44923	20.0	18.7	
159 Pentachloroethane	167	12.656	12.656	0.000	89	54628	20.0	19.7	
* 164 1,4-Dichlorobenzene-d4	152	12.949	12.949	0.000	95	390451	50.0	50.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00034	Amount Added:	4.00	Units: uL
MSV_CCV_LKB_00009	Amount Added:	4.00	Units: uL
MSV_V_SMFreon_00036	Amount Added:	2.00	Units: uL
MSV_CCV_ETOH_00005	Amount Added:	16.00	Units: uL
MSV_CCV_Penta_00046	Amount Added:	4.00	Units: uL
MSV_HP20_ISO_00010	Amount Added:	1.00	Units: uL

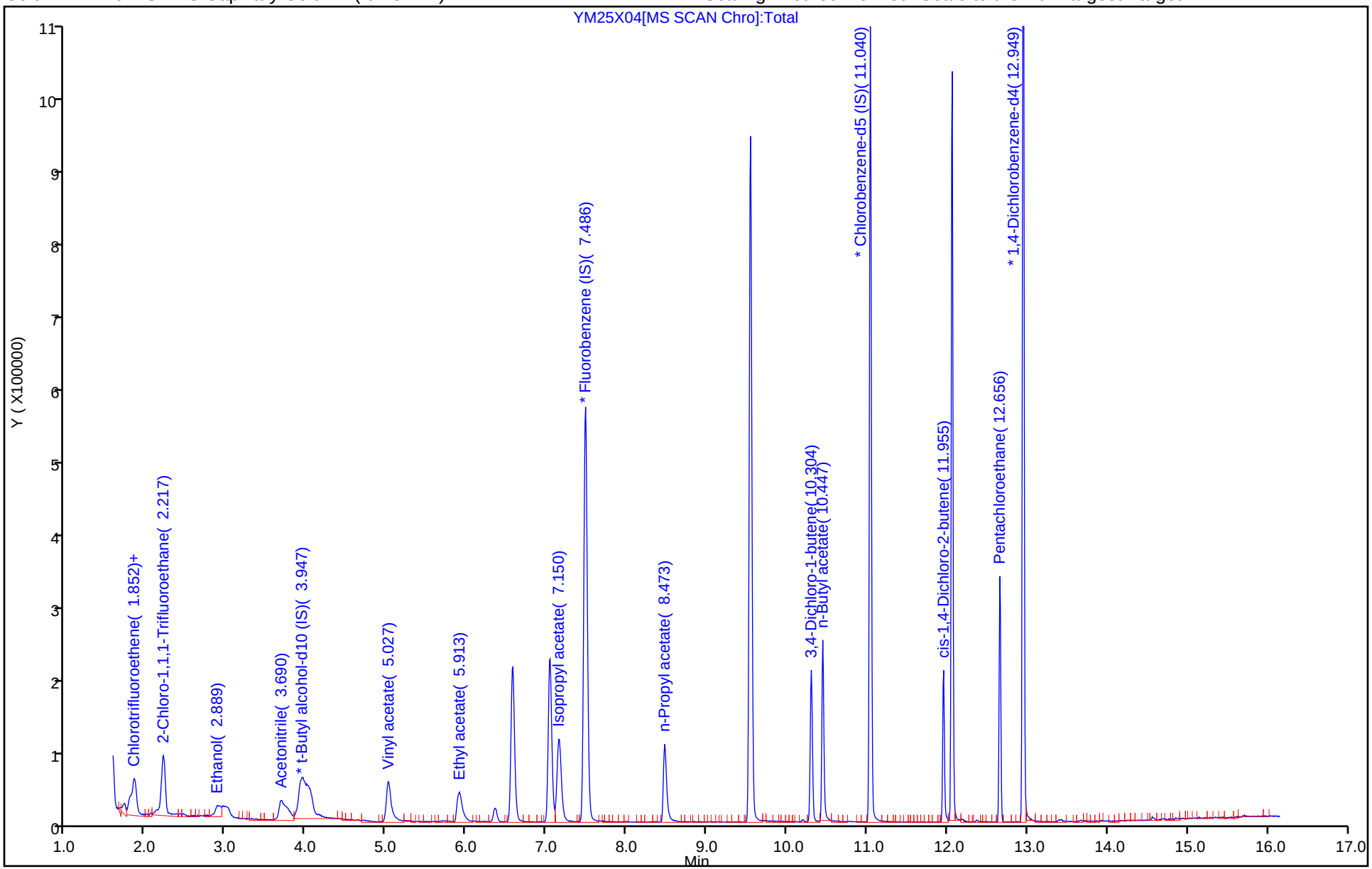
Report Date: 25-Mar-2024 22:24:44 Chrom Revision: 2.3 20-Mar-2024 17:23:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X04.D

Injection Date:	25-Mar-2024 14:14:30	Instrument ID:	9355	Operator ID:	knk41612
Lims ID:	IC sm v20			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

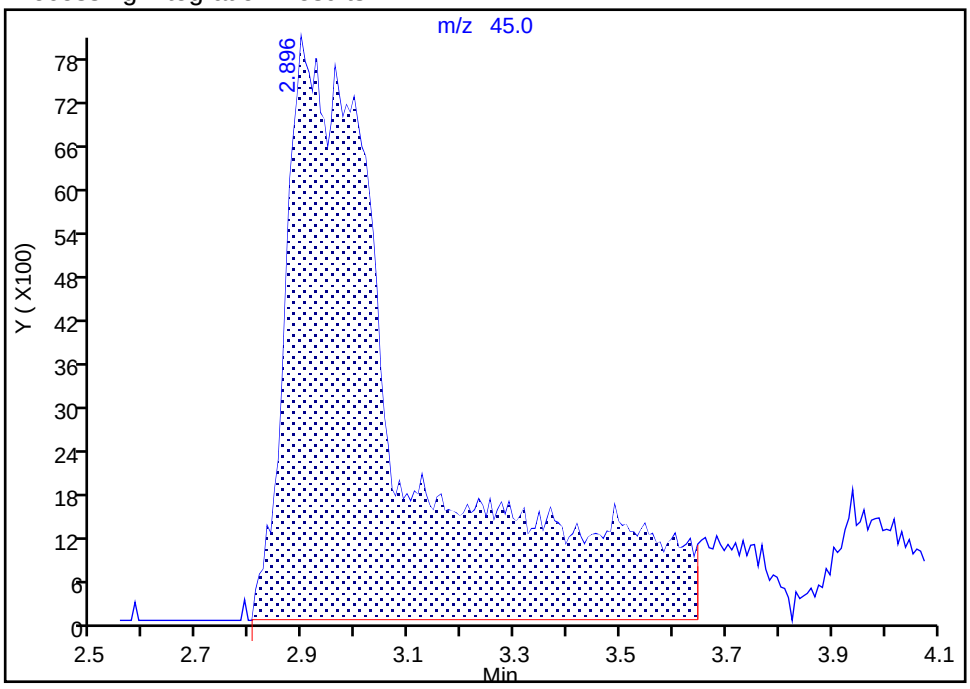
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X04.D				
Injection Date:	25-Mar-2024 14:14:30	Instrument ID:	9355		
Lims ID:	IC sm v20				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

13 Ethanol, CAS: 64-17-5

Signal: 1

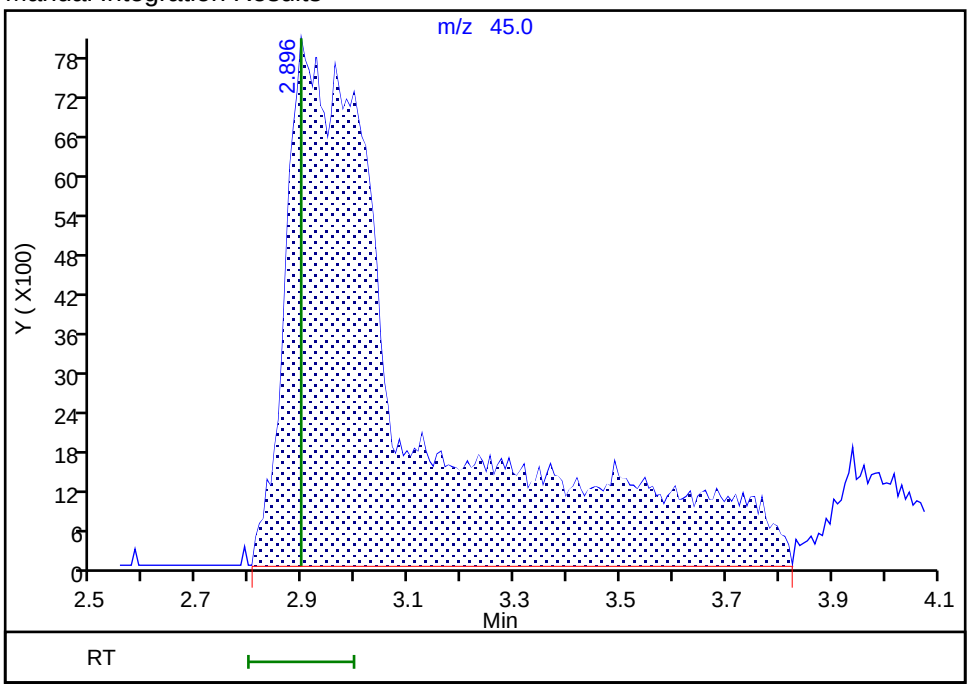
Processing Integration Results

RT: 2.90
Area: 130146
Amount: 1027.1093
Amount Units: ug/l



Manual Integration Results

RT: 2.90
Area: 139176
Amount: 1048.6692
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:33:25 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

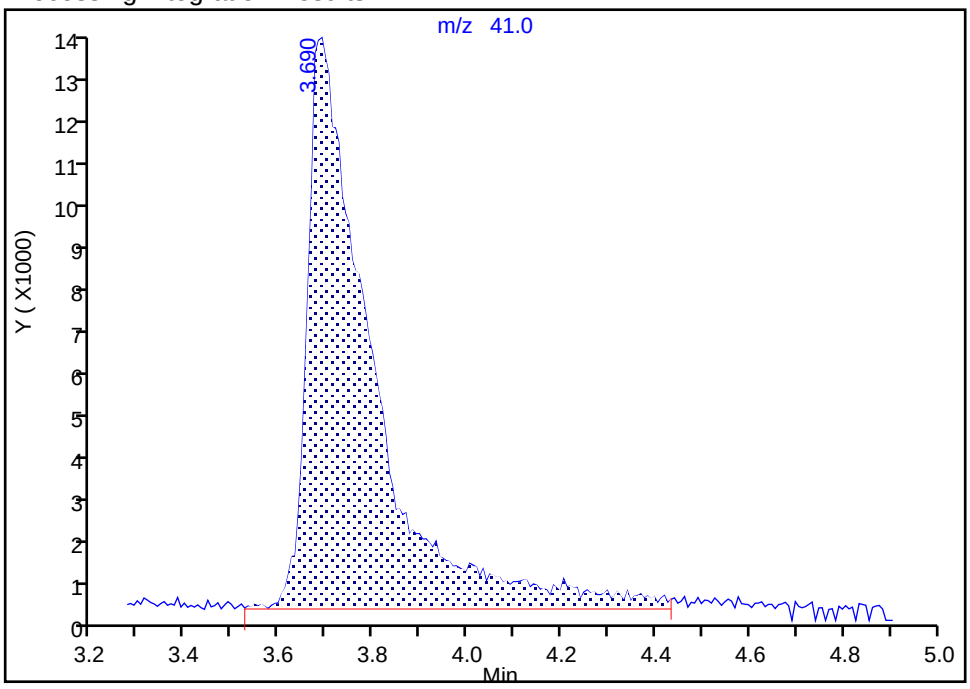
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X04.D				
Injection Date:	25-Mar-2024 14:14:30	Instrument ID:	9355		
Lims ID:	IC sm v20				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

23 Acetonitrile, CAS: 75-05-8

Signal: 1

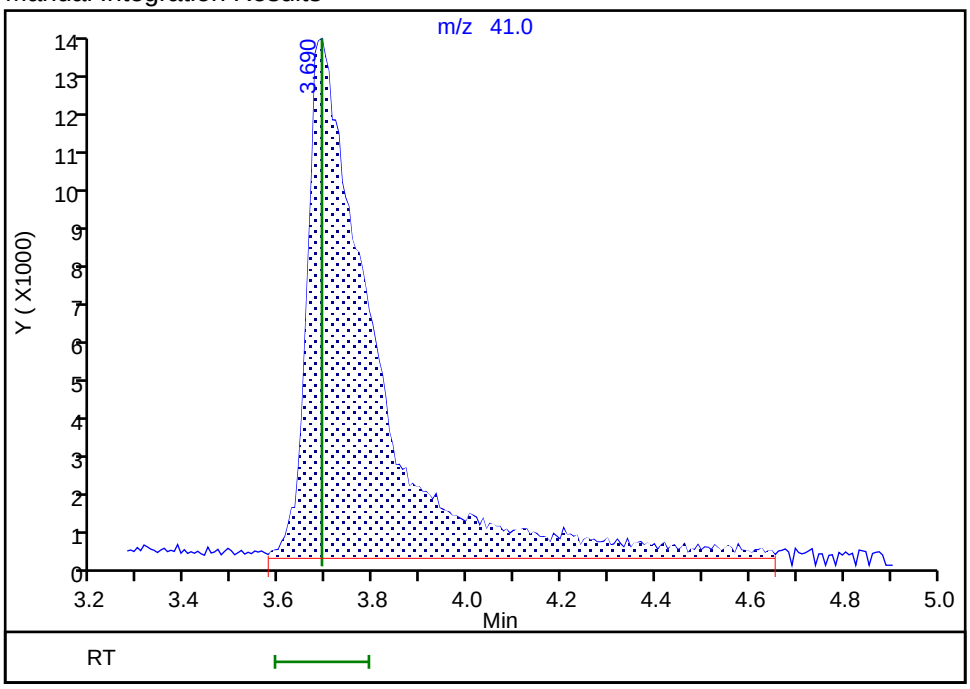
Processing Integration Results

RT: 3.69
Area: 126080
Amount: 95.901263
Amount Units: ug/l



Manual Integration Results

RT: 3.69
Area: 135338
Amount: 100.8193
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:33:41 -04:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

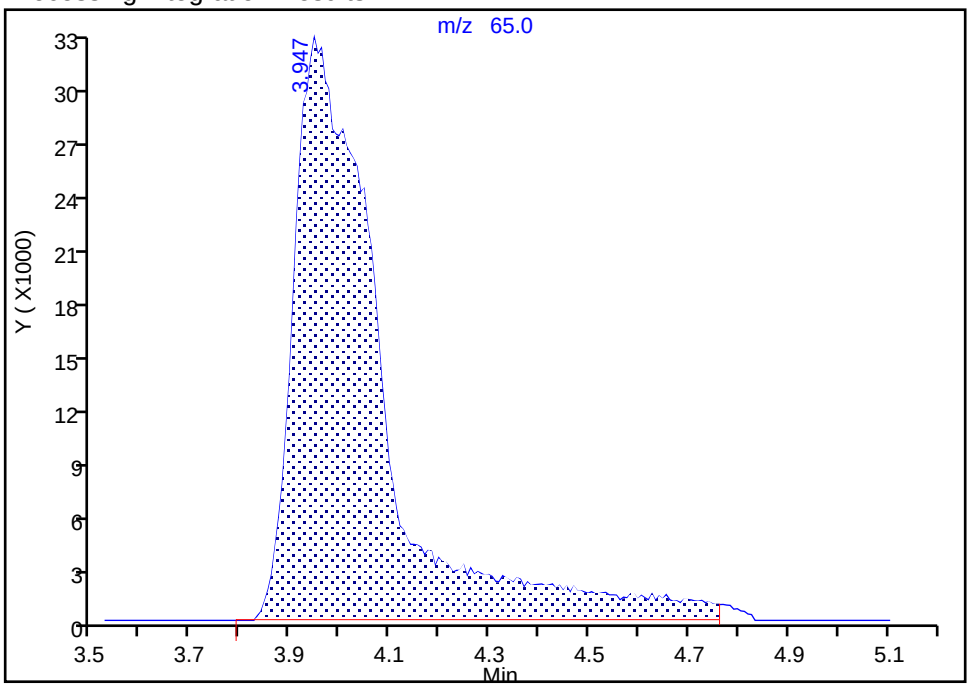
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X04.D				
Injection Date:	25-Mar-2024 14:14:30	Instrument ID:	9355		
Lims ID:	IC sm v20				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

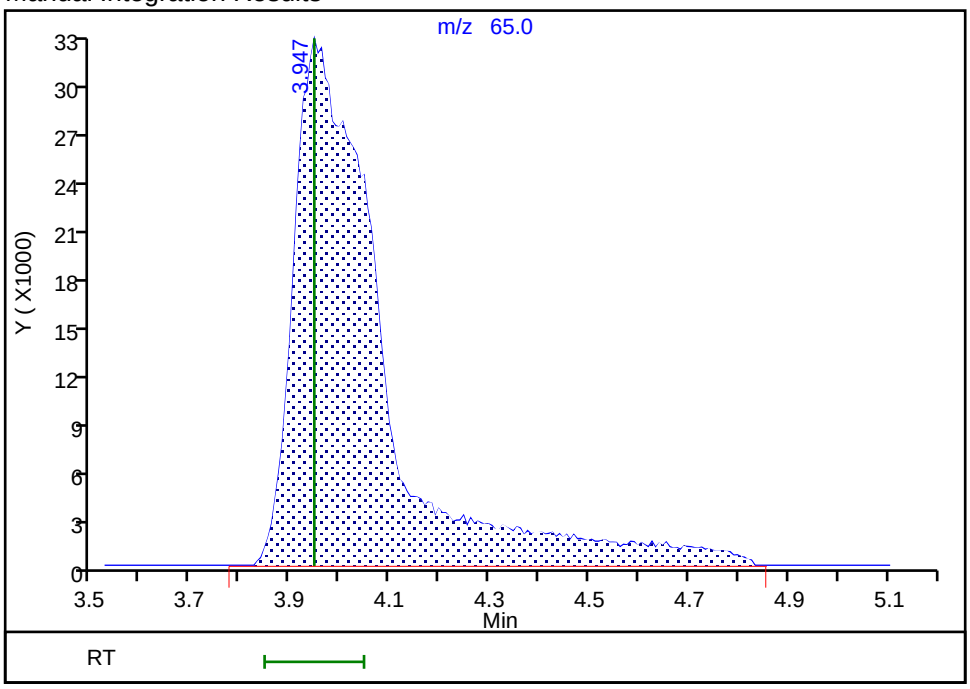
Processing Integration Results

RT: 3.95
Area: 403566
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 3.95
Area: 405967
Amount: 250.0000
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:33:50 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X05.D
Lims ID: IC sm v50
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 25-Mar-2024 14:37:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0109476-006
Misc. Info.: IC 50
Operator ID: knk41612 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub48

Method: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 25-Mar-2024 22:24:47 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1656

First Level Reviewer: K4WN Date: 25-Mar-2024 19:30:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.816	1.816	0.000	93	150187	50.0	52.9	
3 Chlorodifluoromethane	51	1.859	1.859	0.000	97	317092	50.0	50.6	
7 2-Chloro-1,1,1-Trifluoroethane	118	2.224	2.224	0.000	36	259690	50.0	51.2	
13 Ethanol	45	2.903	2.903	0.000	99	174872	1249.9	1316.1	M
23 Acetonitrile	41	3.689	3.689	0.000	100	293458	250.0	218.4	M
* 26 t-Butyl alcohol-d10 (IS)	65	3.954	3.954	0.000	26	406440	250.0	250.0	M
35 Vinyl acetate	43	5.027	5.027	0.000	97	420767	50.0	42.8	
44 Ethyl acetate	43	5.913	5.913	0.000	99	253255	50.0	42.8	
61 Isopropyl acetate	43	7.157	7.157	0.000	98	480346	50.0	43.5	
* 63 Fluorobenzene (IS)	96	7.486	7.486	0.000	99	833161	50.0	50.0	
75 n-Propyl acetate	61	8.473	8.473	0.000	99	101254	50.0	43.8	
130 3,4-Dichloro-1-butene	75	10.303	10.303	0.000	91	217782	50.0	49.3	
131 n-Butyl acetate	43	10.446	10.446	0.000	98	399807	50.0	44.1	
* 134 Chlorobenzene-d5 (IS)	117	11.040	11.040	0.000	85	620090	50.0	50.0	
146 cis-1,4-Dichloro-2-butene	88	11.955	11.955	0.000	0	121974	50.0	50.4	
159 Pentachloroethane	167	12.656	12.656	0.000	90	122767	50.0	45.1	
* 164 1,4-Dichlorobenzene-d4	152	12.949	12.949	0.000	95	384644	50.0	50.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00034	Amount Added:	5.00	Units: uL
MSV_CCV_LKB_00009	Amount Added:	5.00	Units: uL
MSV_V_SMFreon_00036	Amount Added:	2.50	Units: uL
MSV_CCV_ETOH_00005	Amount Added:	10.00	Units: uL
MSV_CCV_Penta_00046	Amount Added:	5.00	Units: uL
MSV_HP20_ISO_00010	Amount Added:	1.00	Units: uL

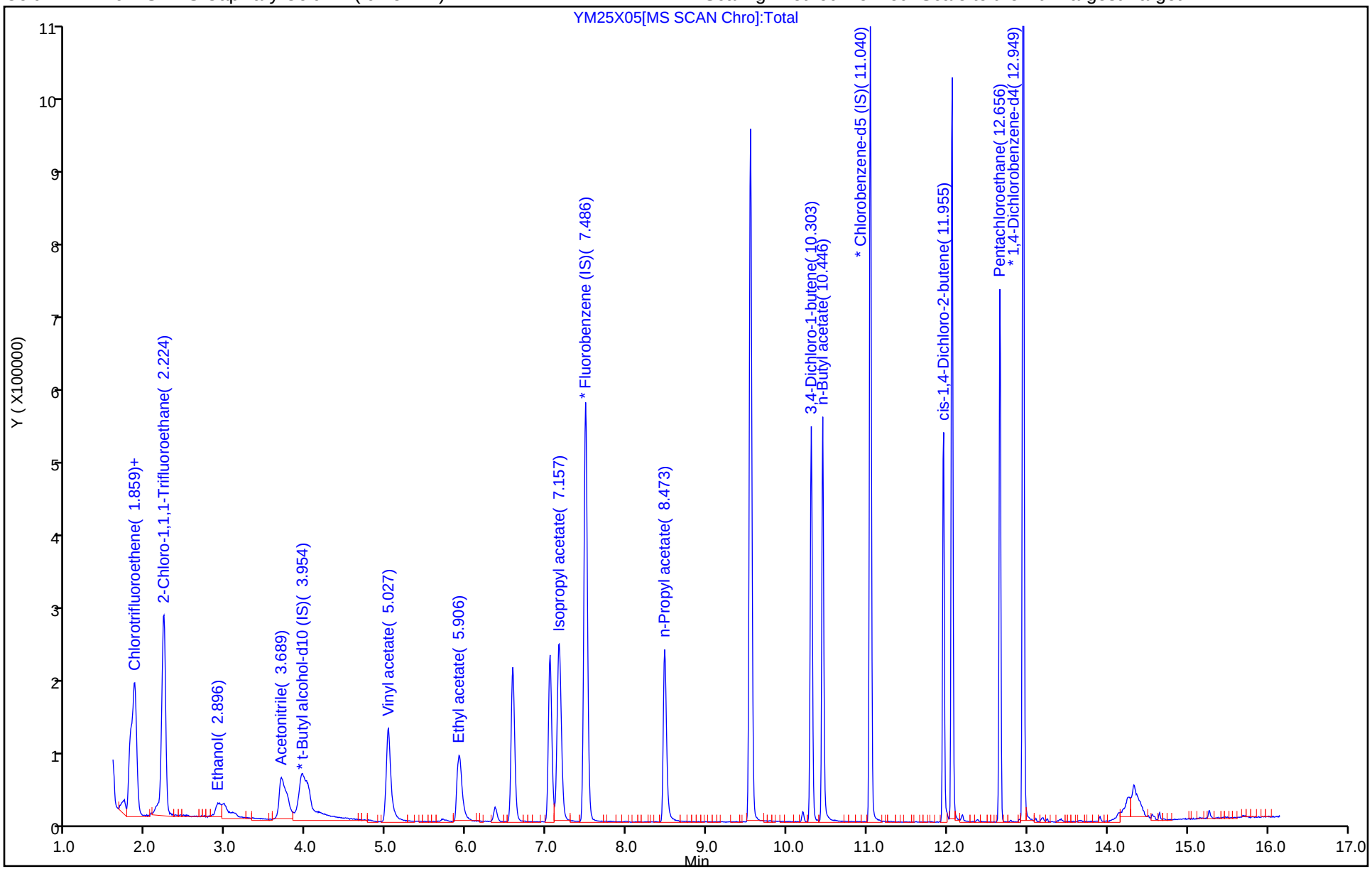
Report Date: 25-Mar-2024 22:24:47 Chrom Revision: 2.3 20-Mar-2024 17:23:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X05.D

Injection Date:	25-Mar-2024 14:37:30	Instrument ID:	9355	Operator ID:	knk41612
Lims ID:	IC sm v50			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

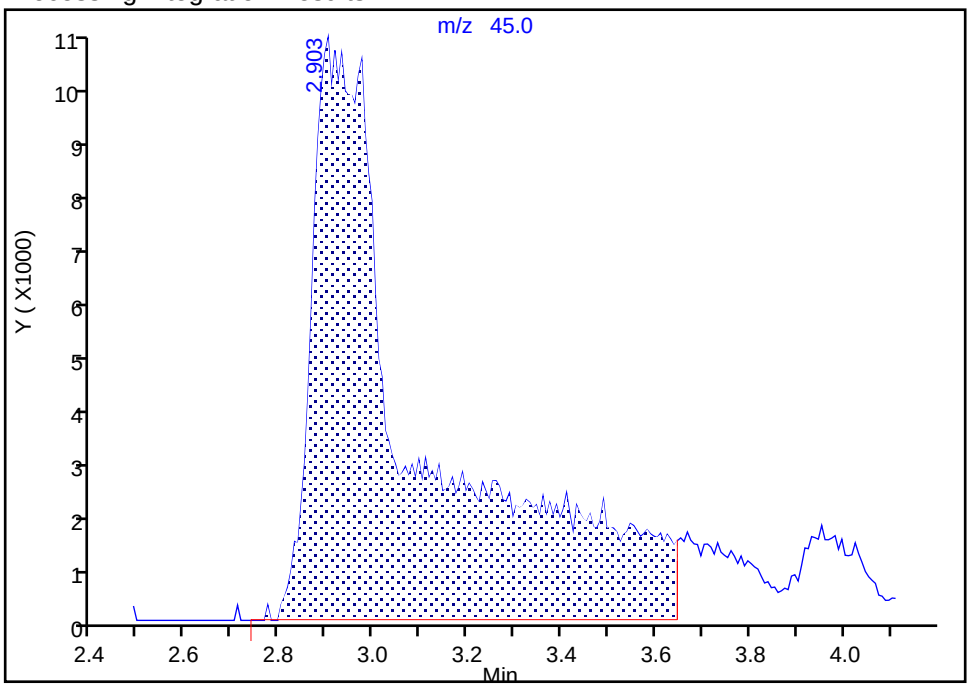
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X05.D				
Injection Date:	25-Mar-2024 14:37:30	Instrument ID:	9355		
Lims ID:	IC sm v50				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

13 Ethanol, CAS: 64-17-5

Signal: 1

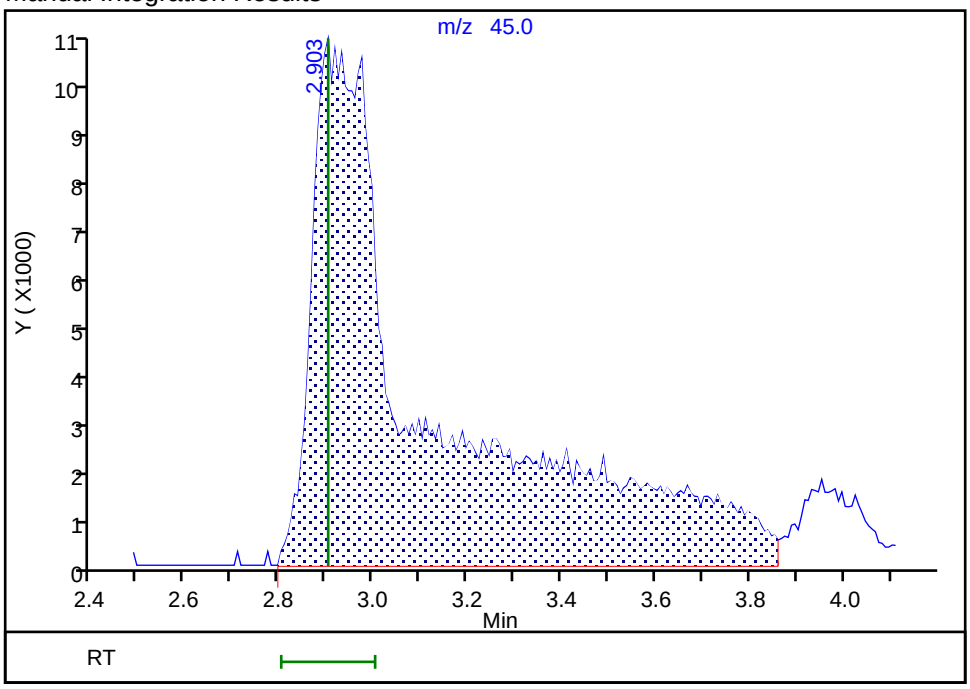
Processing Integration Results

RT: 2.90
Area: 161122
Amount: 1282.6035
Amount Units: ug/l



Manual Integration Results

RT: 2.90
Area: 174872
Amount: 1316.0995
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:34:16 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

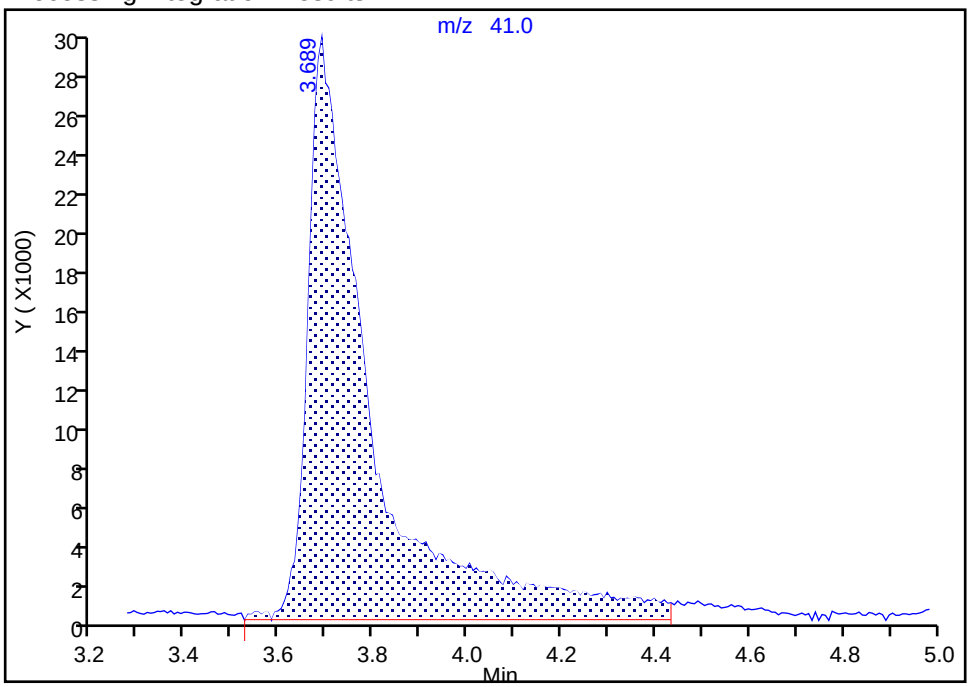
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X05.D				
Injection Date:	25-Mar-2024 14:37:30	Instrument ID:	9355		
Lims ID:	IC sm v50				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

23 Acetonitrile, CAS: 75-05-8

Signal: 1

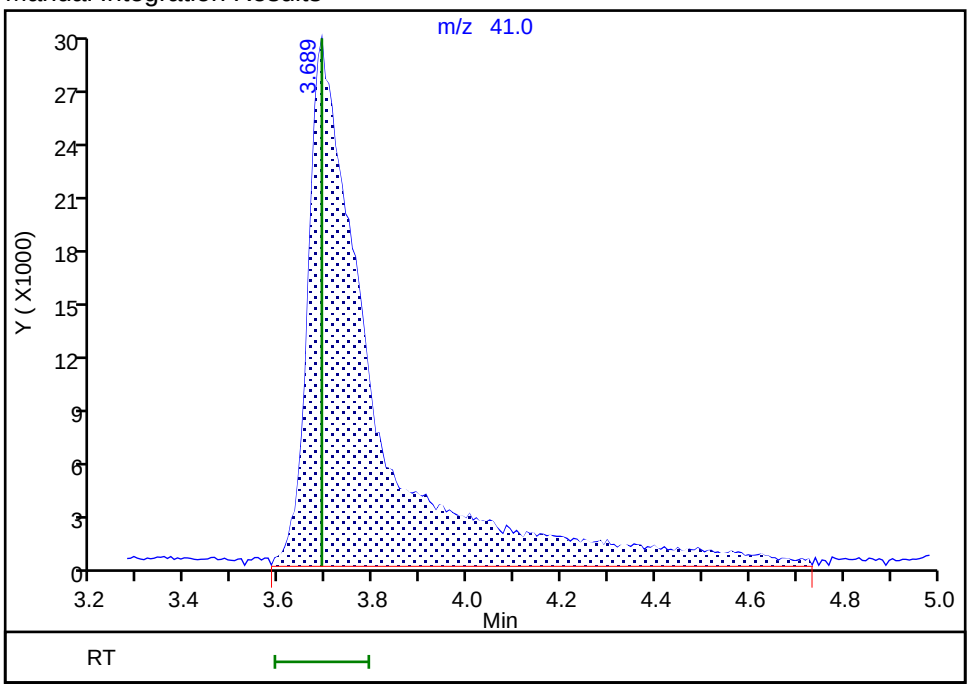
Processing Integration Results

RT: 3.69
Area: 283606
Amount: 218.0738
Amount Units: ug/l



Manual Integration Results

RT: 3.69
Area: 293458
Amount: 218.3556
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:34:24 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

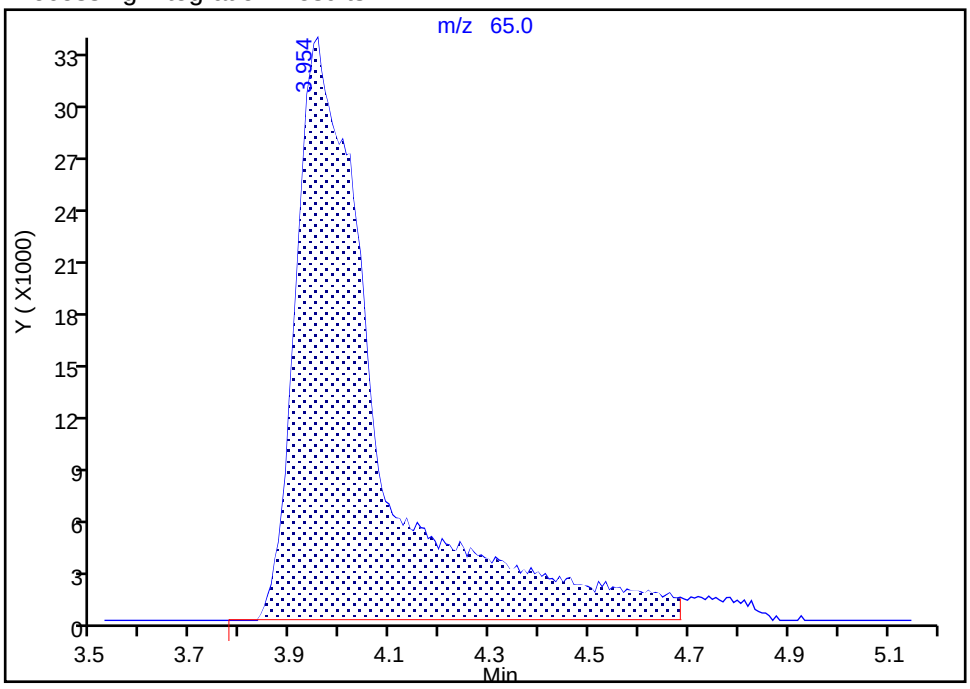
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X05.D
Injection Date: 25-Mar-2024 14:37:30 Instrument ID: 9355
Lims ID: IC sm v50
Client ID:
Operator ID: knk41612 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

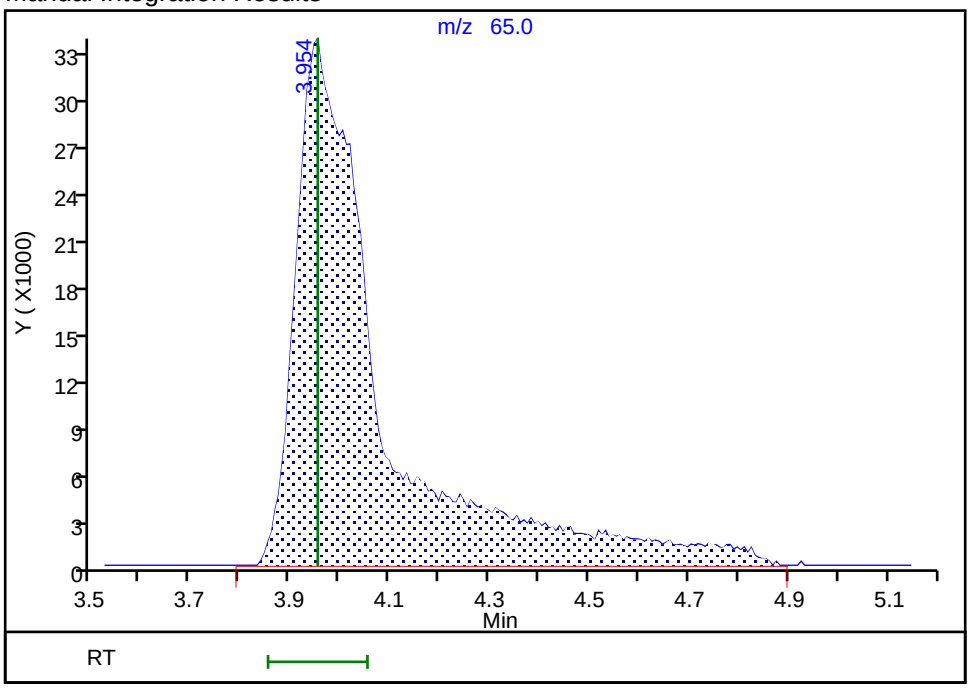
Processing Integration Results

RT: 3.95
Area: 394978
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 3.95
Area: 406440
Amount: 250.0000
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:34:30 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X06.D
Lims ID: IC sm v100
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 25-Mar-2024 14:59:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0109476-007
Misc. Info.: IC 100
Operator ID: knk41612 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub48

Method: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 25-Mar-2024 22:24:51 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1656

First Level Reviewer: K4WN Date: 25-Mar-2024 19:35:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.823	1.816	0.007	93	321284	100.0	113.6	
3 Chlorodifluoromethane	51	1.873	1.859	0.014	97	675327	100.0	105.2	
7 2-Chloro-1,1,1-Trifluoroethane	118	2.231	2.224	0.007	34	553250	100.0	109.5	
13 Ethanol	45	3.017	2.903	0.114	99	351154	2499.8	2580.1	Ma
23 Acetonitrile	41	3.690	3.689	0.001	99	649754	500.0	472.0	M
* 26 t-Butyl alcohol-d10 (IS)	65	3.968	3.954	0.014	29	416326	250.0	250.0	M
35 Vinyl acetate	43	5.027	5.027	0.000	97	1007348	100.0	102.9	
44 Ethyl acetate	43	5.913	5.913	0.000	99	612414	100.0	104.0	
61 Isopropyl acetate	43	7.157	7.157	0.000	98	1131851	100.0	103.0	
* 63 Fluorobenzene (IS)	96	7.493	7.486	0.007	99	829758	50.0	50.0	
75 n-Propyl acetate	61	8.473	8.473	0.000	99	242228	100.0	105.2	
130 3,4-Dichloro-1-butene	75	10.304	10.303	0.001	91	466812	100.1	105.7	
131 n-Butyl acetate	43	10.447	10.446	0.000	98	954487	100.0	105.2	
* 134 Chlorobenzene-d5 (IS)	117	11.040	11.040	0.000	85	619886	50.0	50.0	
146 cis-1,4-Dichloro-2-butene	88	11.955	11.955	0.000	0	265058	100.0	109.5	
159 Pentachloroethane	167	12.656	12.656	0.000	91	302840	100.0	112.1	
* 164 1,4-Dichlorobenzene-d4	152	12.949	12.949	0.000	95	381256	50.0	50.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MSV_CCV_V5ACE_00034	Amount Added:	5.00	Units: uL
MSV_CCV_LKB_00009	Amount Added:	5.00	Units: uL
MSV_V_SMFreon_00036	Amount Added:	2.50	Units: uL
MSV_CCV_ETOH_00005	Amount Added:	10.00	Units: uL
MSV_CCV_Penta_00046	Amount Added:	5.00	Units: uL
MSV_HP20_ISO_00010	Amount Added:	1.00	Units: uL

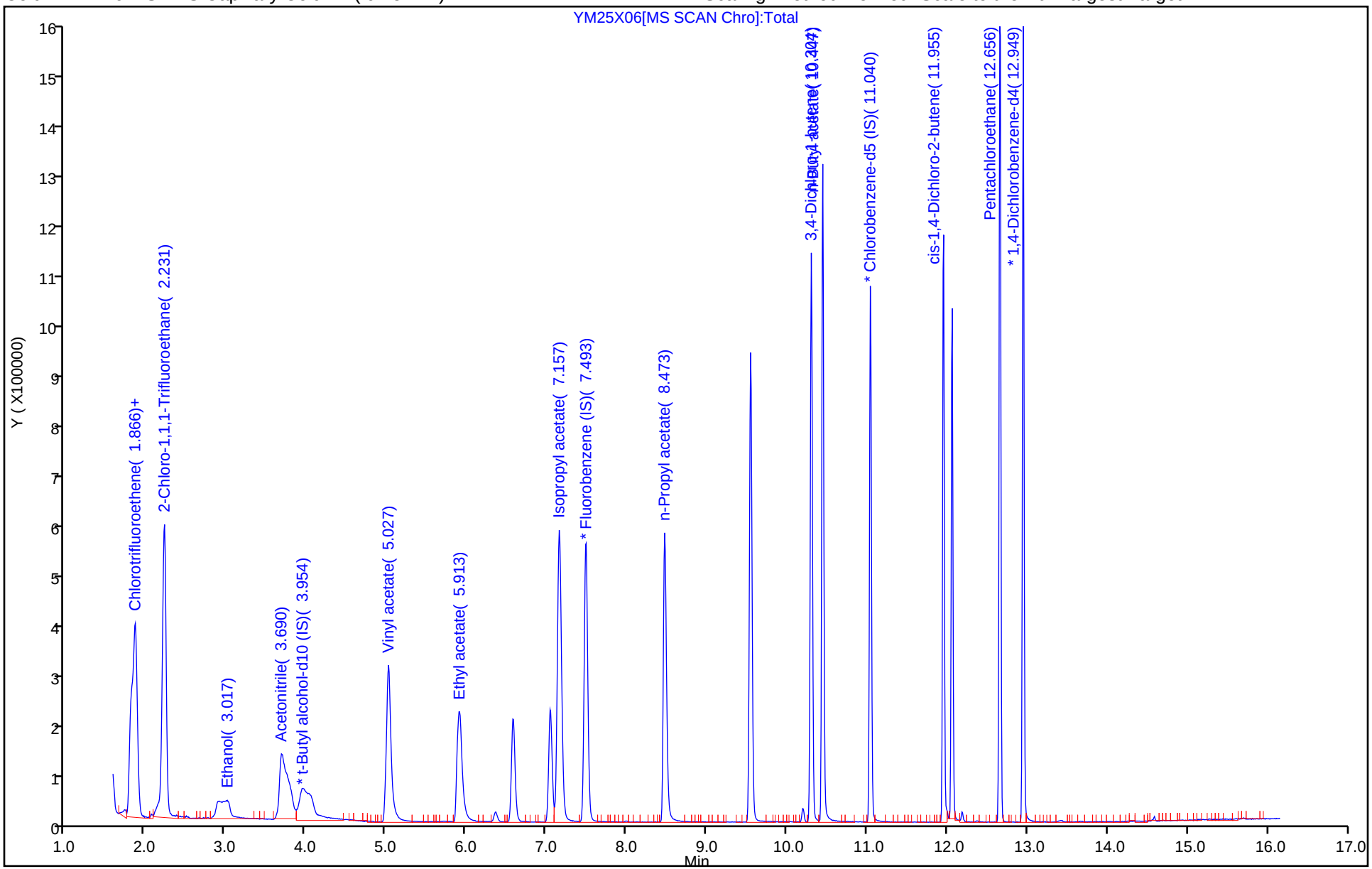
Report Date: 25-Mar-2024 22:24:52 Chrom Revision: 2.3 20-Mar-2024 17:23:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X06.D

Injection Date:	25-Mar-2024 14:59:30	Instrument ID:	9355	Operator ID:	knk41612
Lims ID:	IC sm v100			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

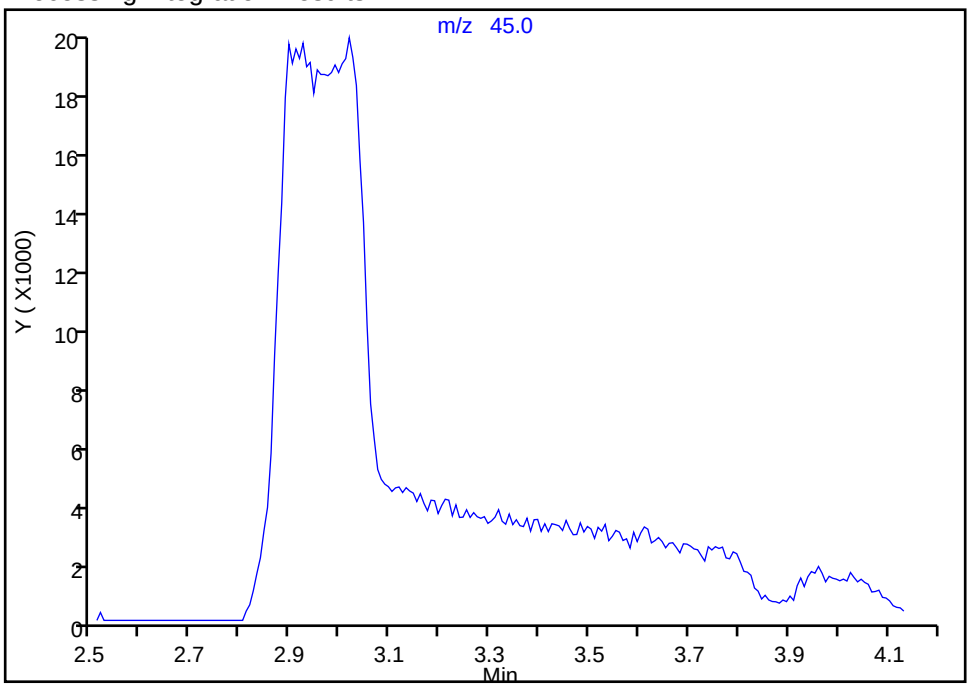
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X06.D
Injection Date: 25-Mar-2024 14:59:30 Instrument ID: 9355
Lims ID: IC sm v100
Client ID:
Operator ID: knk41612 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

13 Ethanol, CAS: 64-17-5

Signal: 1

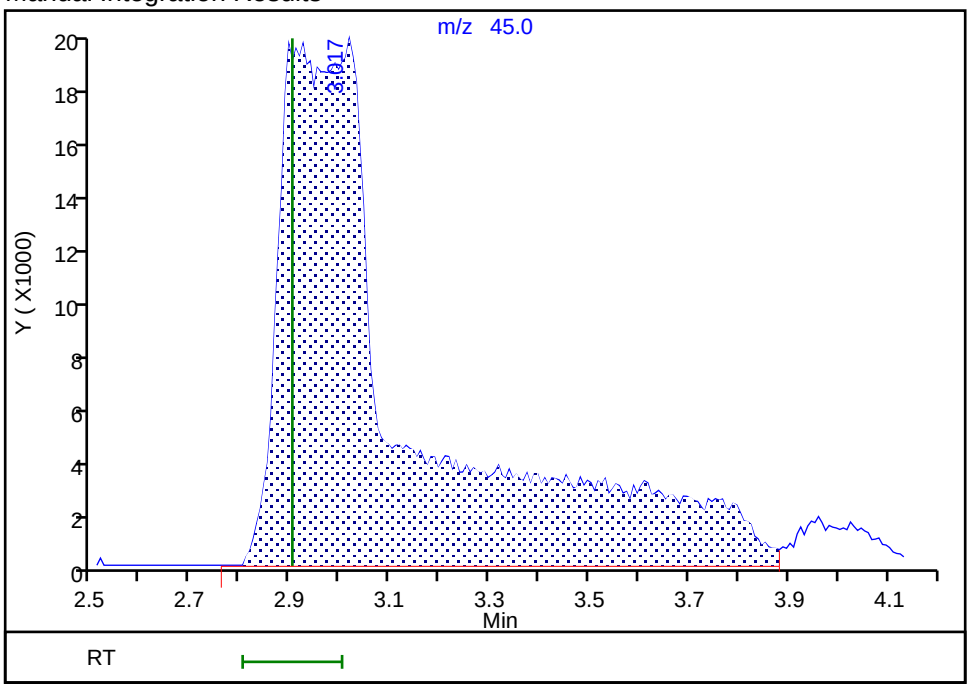
Not Detected
Expected RT: 2.90

Processing Integration Results



Manual Integration Results

RT: 3.02
Area: 351154
Amount: 2580.0552
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:34:51 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

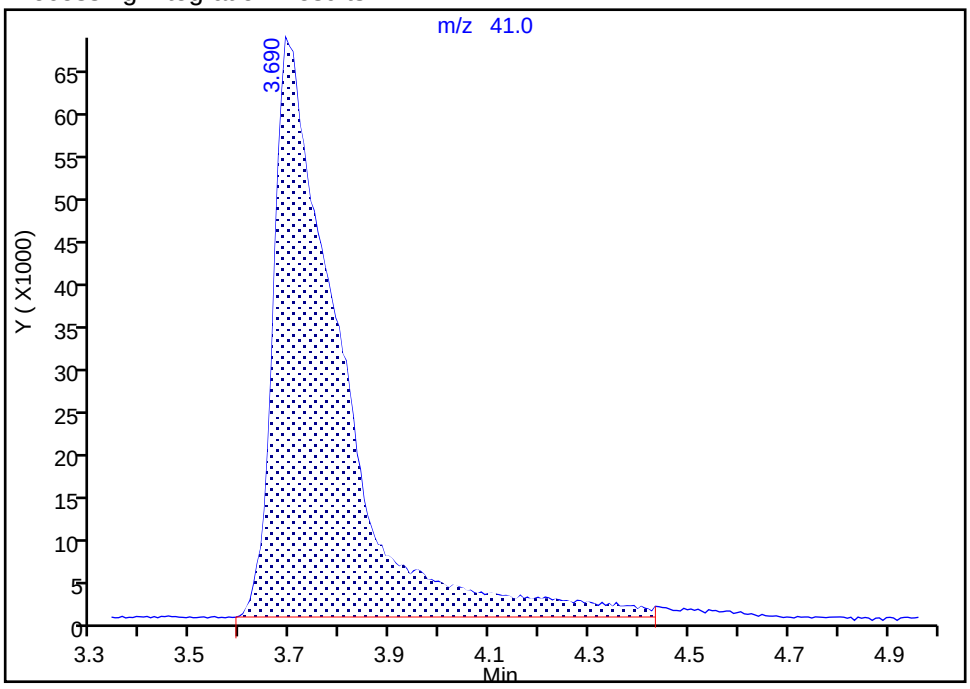
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X06.D				
Injection Date:	25-Mar-2024 14:59:30	Instrument ID:	9355		
Lims ID:	IC sm v100				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

23 Acetonitrile, CAS: 75-05-8

Signal: 1

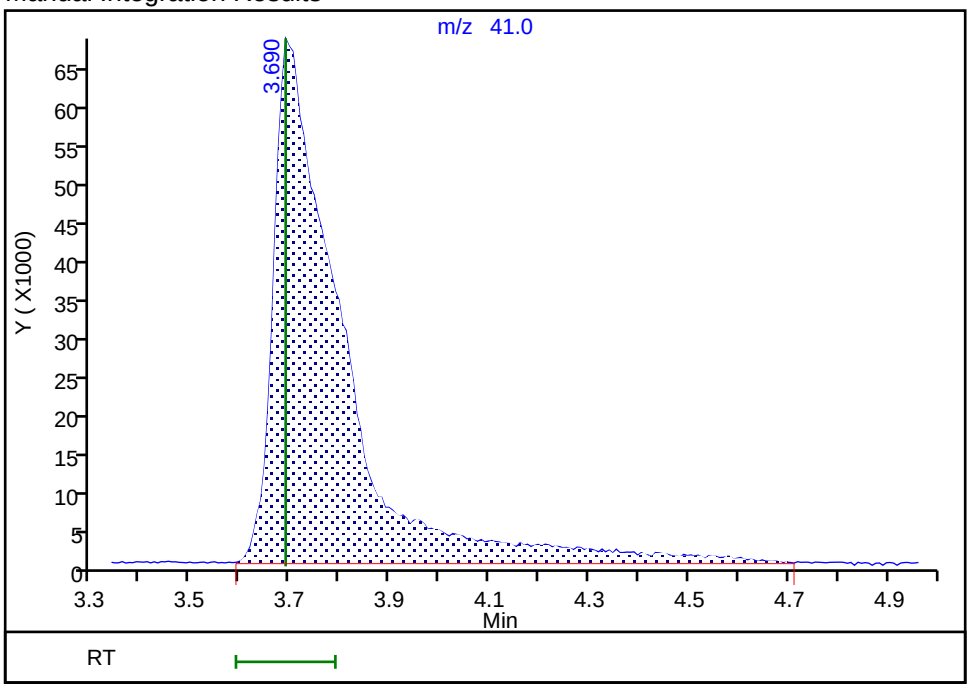
Processing Integration Results

RT: 3.69
Area: 630634
Amount: 463.8599
Amount Units: ug/l



Manual Integration Results

RT: 3.69
Area: 649754
Amount: 471.9872
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:35:11 -04:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

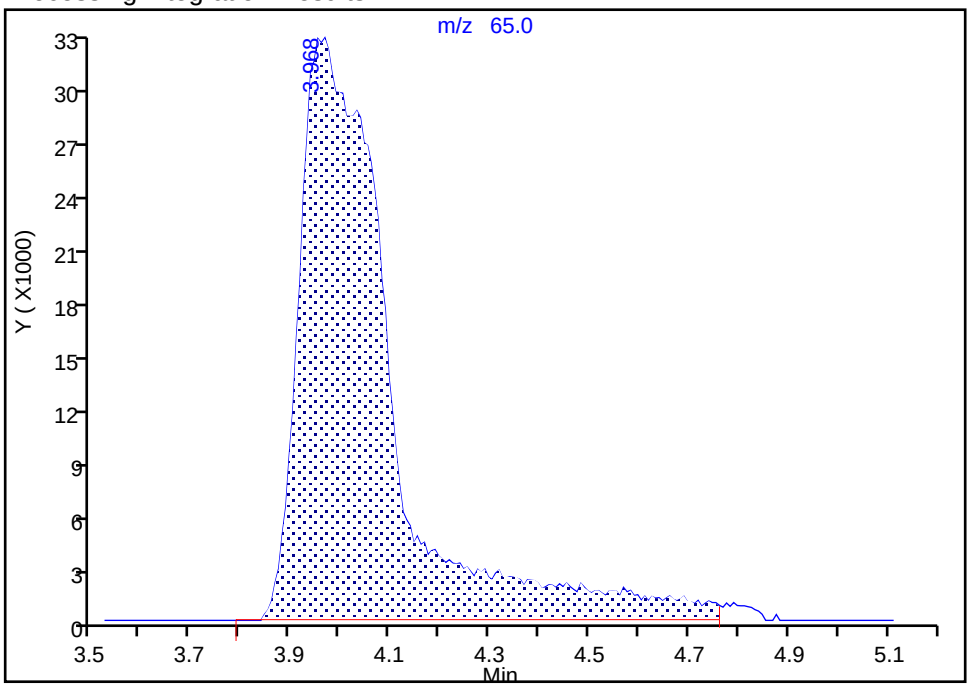
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X06.D
Injection Date: 25-Mar-2024 14:59:30 Instrument ID: 9355
Lims ID: IC sm v100
Client ID:
Operator ID: knk41612 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

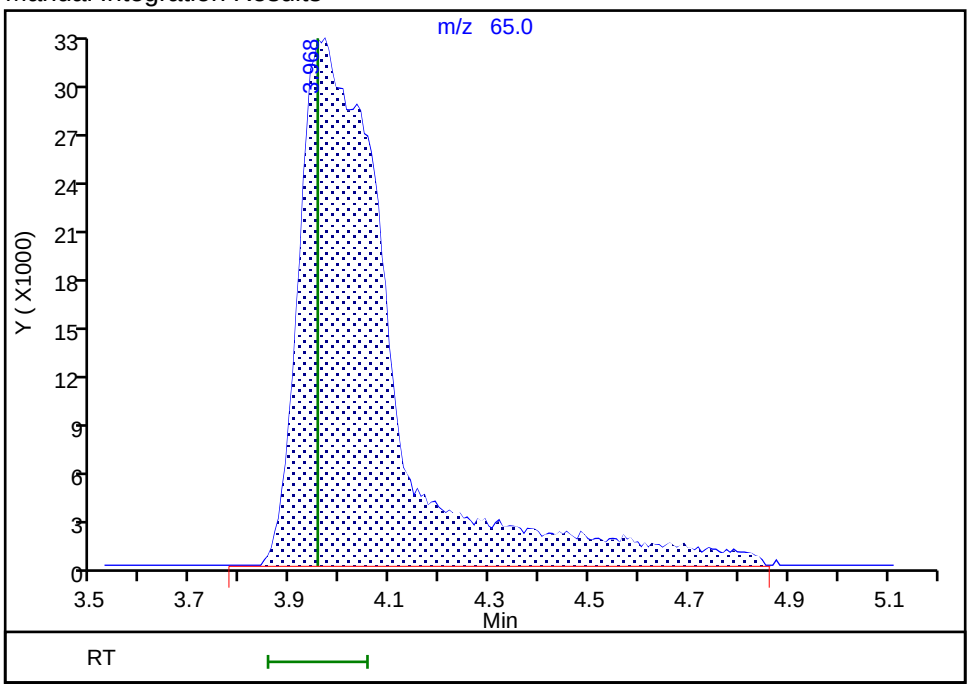
Processing Integration Results

RT: 3.97
Area: 412573
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 3.97
Area: 416326
Amount: 250.0000
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:35:17 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X07.D
Lims ID: IC sm v300
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 25-Mar-2024 15:21:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0109476-008
Misc. Info.: IC 300
Operator ID: knk41612 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub48

Method: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 25-Mar-2024 22:24:55 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1656

First Level Reviewer: K4WN Date: 25-Mar-2024 19:39:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.816	1.816	0.000	93	943490	300.0	331.4	
3 Chlorodifluoromethane	51	1.859	1.859	0.000	97	1982669	300.0	301.0	
7 2-Chloro-1,1,1-Trifluoroethane	118	2.216	2.224	-0.008	35	1598098	300.0	314.0	
13 Ethanol	45	2.896	2.903	-0.007	99	994667	7499.5	7120.6	M
23 Acetonitrile	41	3.682	3.689	-0.007	99	2051674	1500.0	1452.1	M
* 26 t-Butyl alcohol-d10 (IS)	65	3.947	3.954	-0.007	30	427293	250.0	250.0	M
35 Vinyl acetate	43	5.012	5.027	-0.015	97	3183535	300.0	322.9	
44 Ethyl acetate	43	5.906	5.913	-0.007	99	1960639	300.0	330.7	
61 Isopropyl acetate	43	7.150	7.157	-0.007	98	3618719	300.0	327.1	
* 63 Fluorobenzene (IS)	96	7.486	7.486	0.000	99	835548	50.0	50.0	
75 n-Propyl acetate	61	8.473	8.473	0.000	99	795082	300.0	342.9	
130 3,4-Dichloro-1-butene	75	10.303	10.303	0.000	92	1481600	300.2	331.5	
131 n-Butyl acetate	43	10.446	10.446	0.000	98	2977840	300.0	324.4	
* 134 Chlorobenzene-d5 (IS)	117	11.040	11.040	0.000	86	627256	50.0	50.0	
146 cis-1,4-Dichloro-2-butene	88	11.955	11.955	0.000	0	861292	300.1	351.7	
159 Pentachloroethane	167	12.656	12.656	0.000	92	1010549	300.0	371.2	
* 164 1,4-Dichlorobenzene-d4	152	12.949	12.949	0.000	95	384294	50.0	50.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00034	Amount Added:	15.00	Units: uL
MSV_CCV_LKB_00009	Amount Added:	15.00	Units: uL
MSV_V_SMFreon_00036	Amount Added:	7.50	Units: uL
MSV_CCV_ETOH_00005	Amount Added:	30.00	Units: uL
MSV_CCV_Penta_00046	Amount Added:	15.00	Units: uL
MSV_HP20_ISO_00010	Amount Added:	1.00	Units: uL

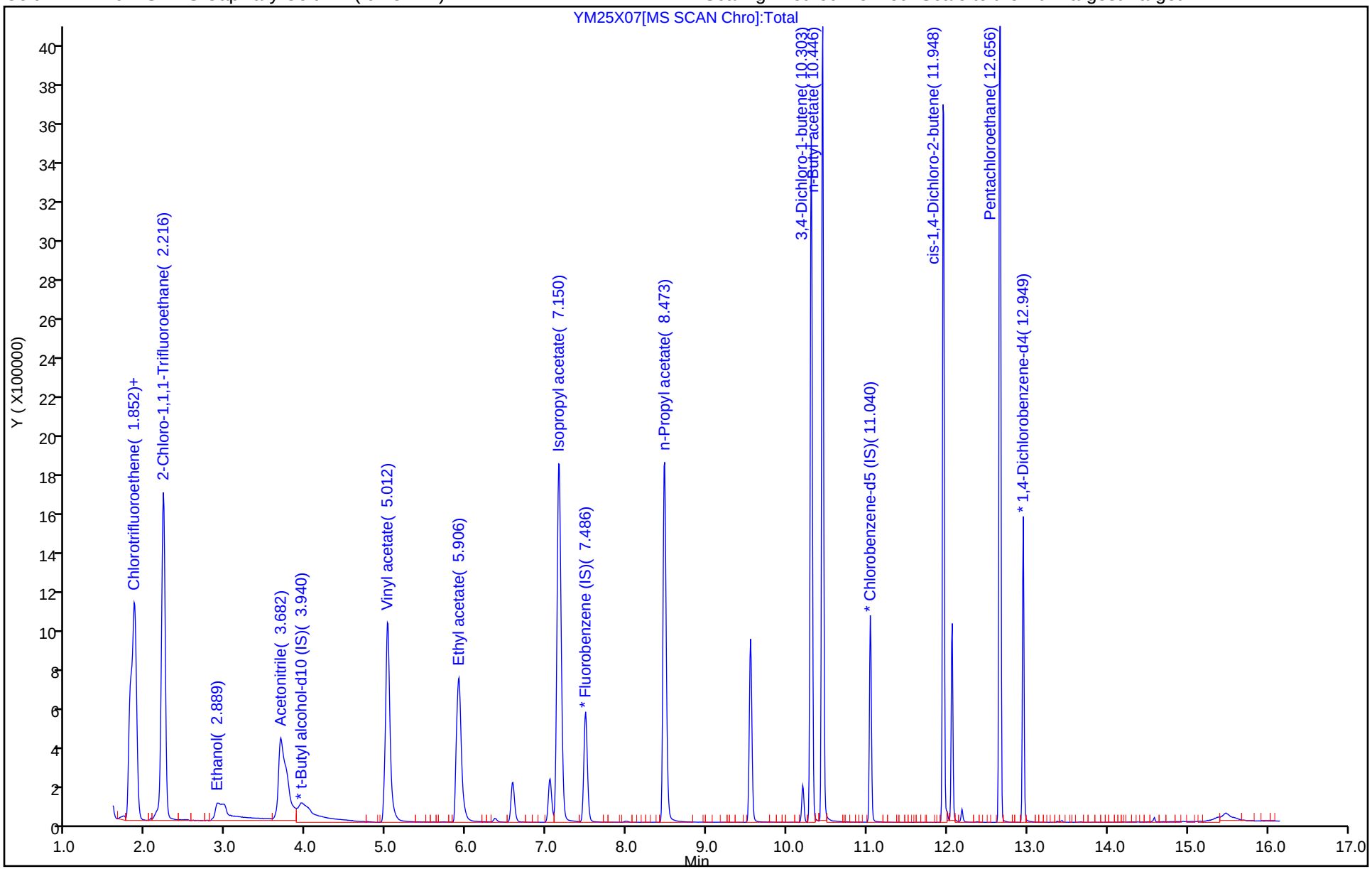
Report Date: 25-Mar-2024 22:24:55 Chrom Revision: 2.3 20-Mar-2024 17:23:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X07.D

Injection Date:	25-Mar-2024 15:21:30	Instrument ID:	9355	Operator ID:	knk41612
Lims ID:	IC sm v300			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

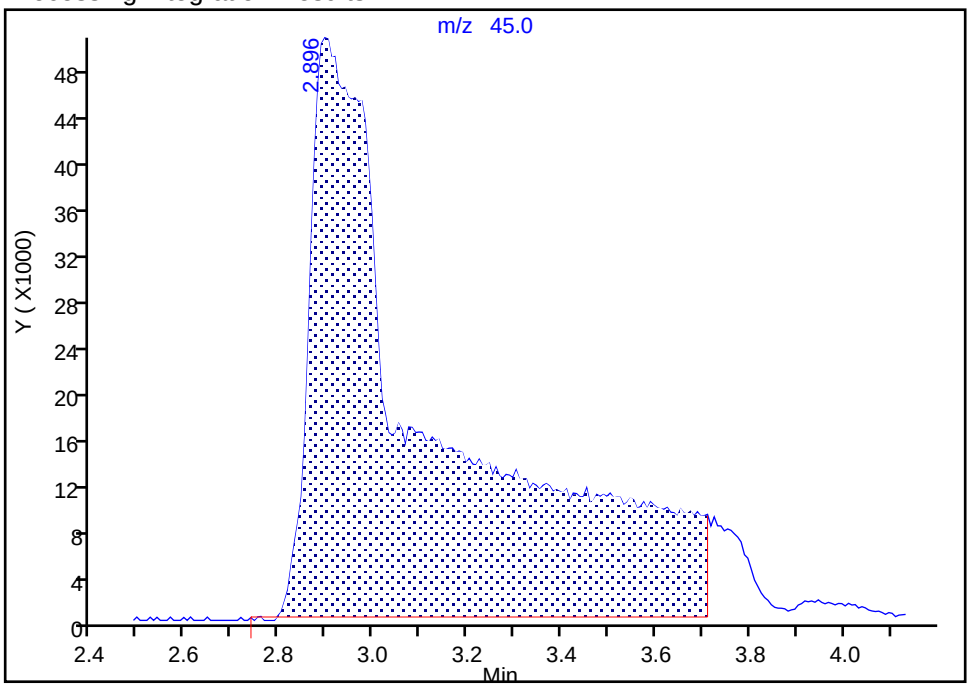
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X07.D				
Injection Date:	25-Mar-2024 15:21:30	Instrument ID:	9355		
Lims ID:	IC sm v300				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

13 Ethanol, CAS: 64-17-5

Signal: 1

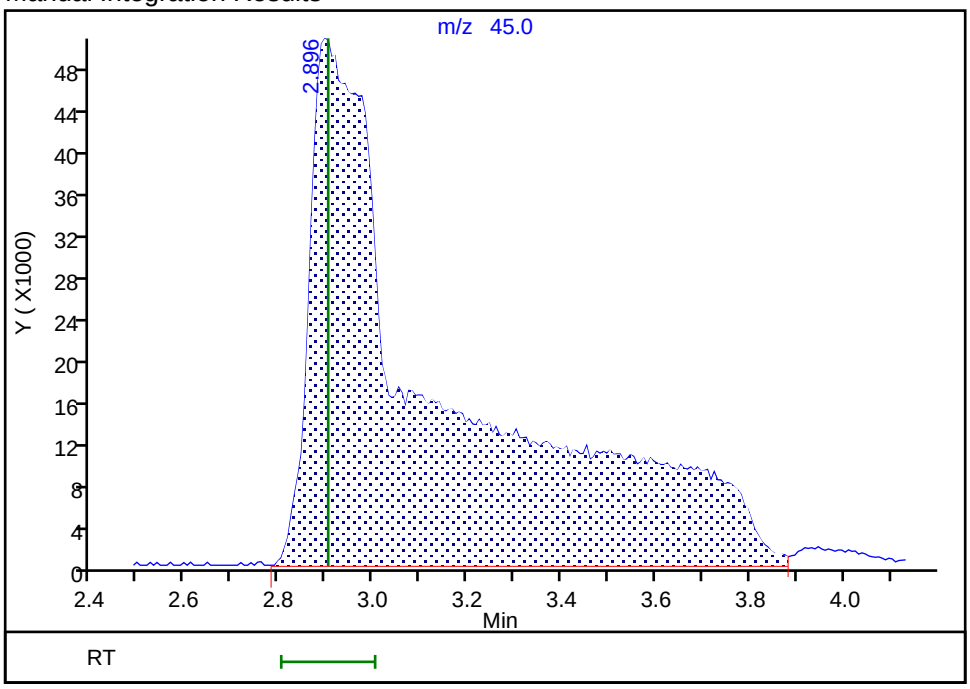
Processing Integration Results

RT: 2.90
Area: 931484
Amount: 6809.1991
Amount Units: ug/l



Manual Integration Results

RT: 2.90
Area: 994667
Amount: 7120.6040
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:35:40 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

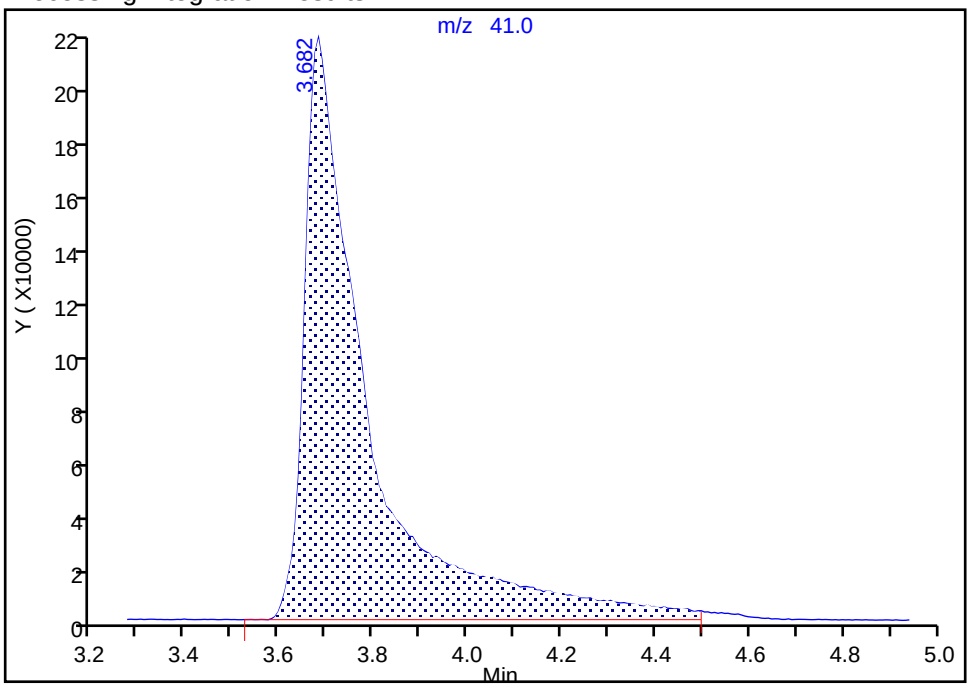
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X07.D				
Injection Date:	25-Mar-2024 15:21:30	Instrument ID:	9355		
Lims ID:	IC sm v300				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

23 Acetonitrile, CAS: 75-05-8

Signal: 1

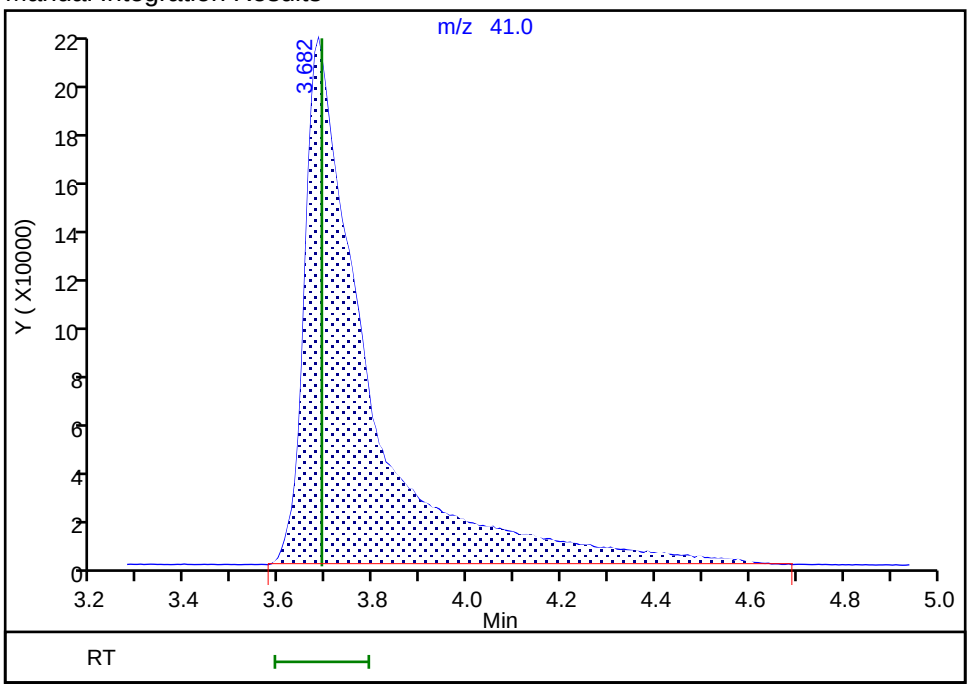
Processing Integration Results

RT: 3.68
Area: 2023263
Amount: 1450.6157
Amount Units: ug/l



Manual Integration Results

RT: 3.68
Area: 2051674
Amount: 1452.1027
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:35:58 -04:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

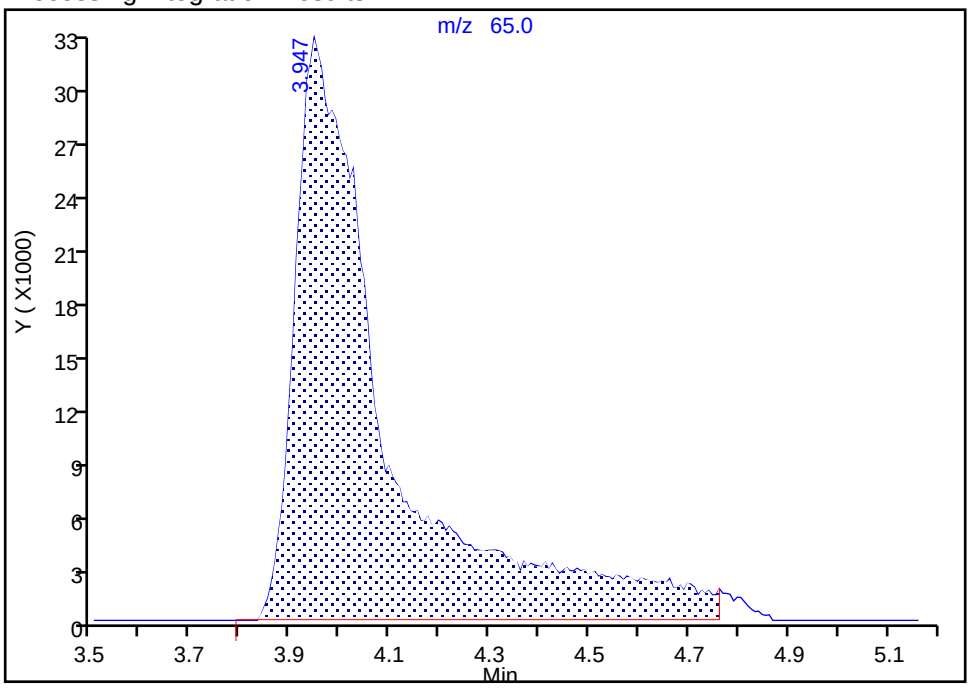
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X07.D				
Injection Date:	25-Mar-2024 15:21:30	Instrument ID:	9355		
Lims ID:	IC sm v300				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

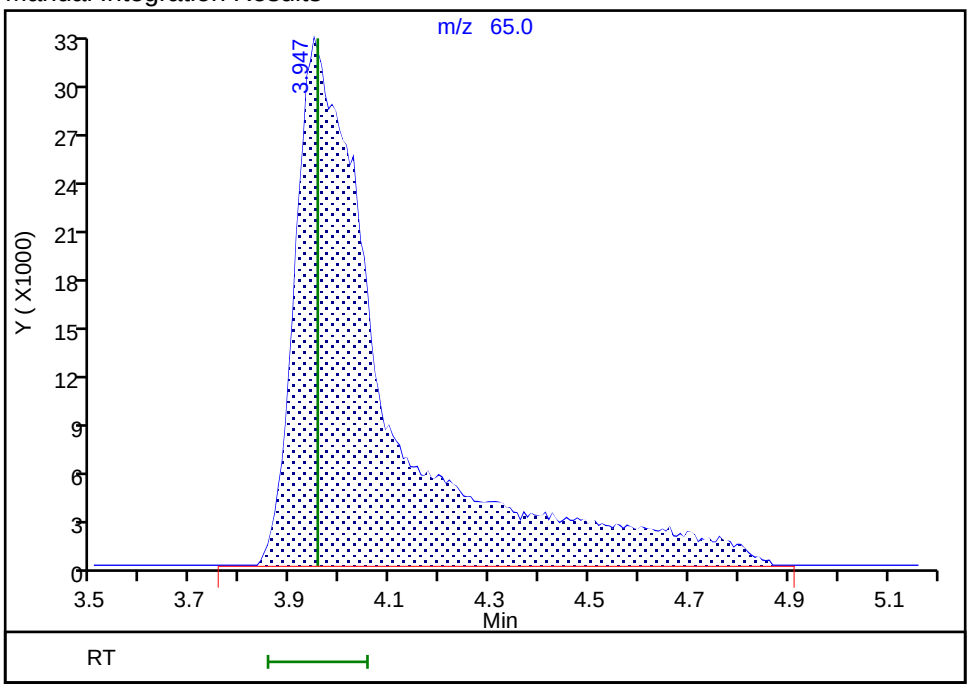
Processing Integration Results

RT: 3.95
Area: 421891
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 3.95
Area: 427293
Amount: 250.0000
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:36:03 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Calibration / Chlorotrifluoroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

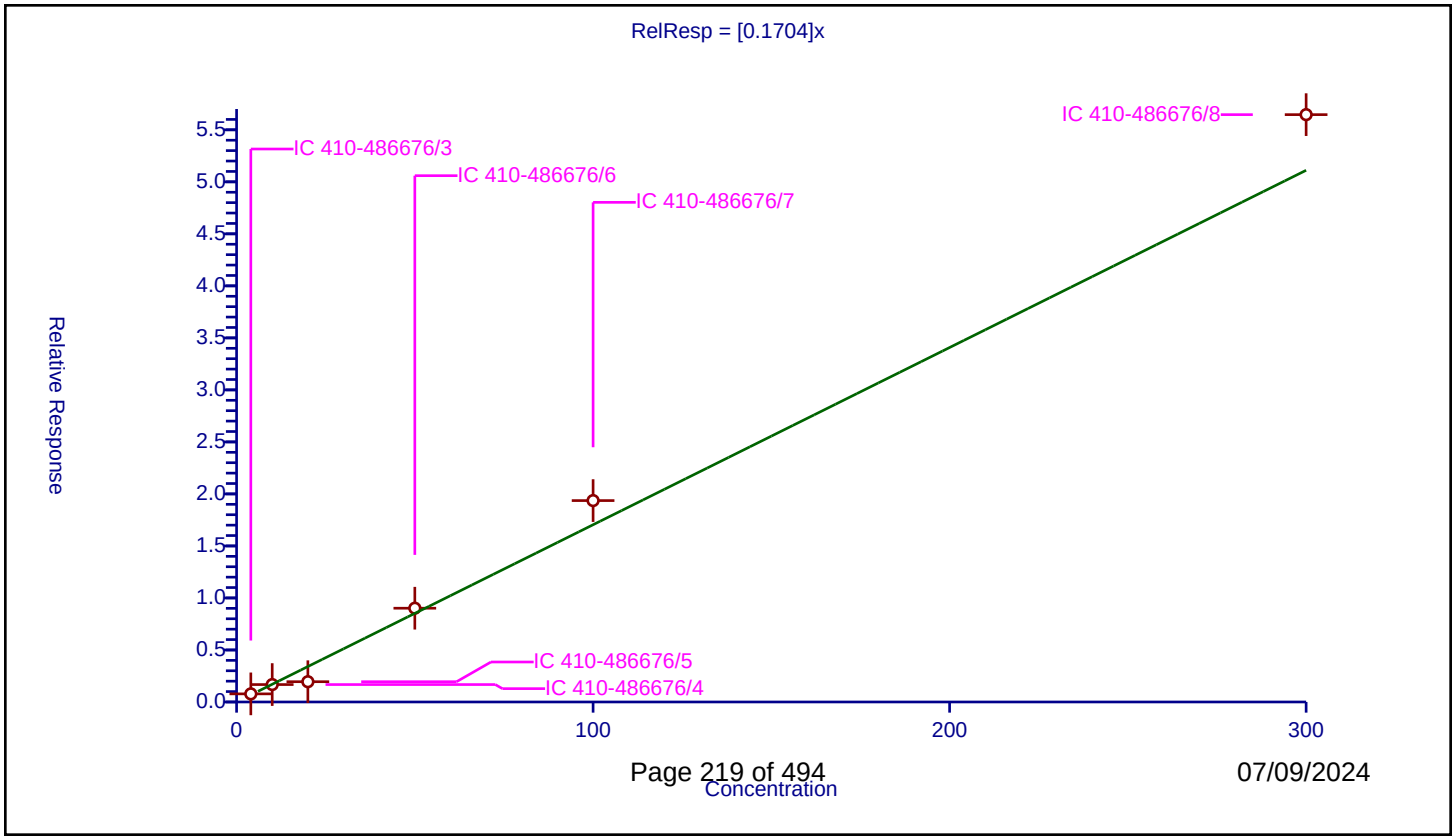
Curve Coefficients

Intercept:	0
Slope:	0.1704

Error Coefficients

Relative Standard Deviation:	21.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/3	4.0	0.780954	50.0	840767.0	0.195238	Y
2	IC 410-486676/4	10.0	1.674683	50.0	843324.0	0.167468	Y
3	IC 410-486676/5	20.0	1.948397	50.0	823318.0	0.09742	Y
4	IC 410-486676/6	50.0	9.013084	50.0	833161.0	0.180262	Y
5	IC 410-486676/7	100.0	19.360103	50.0	829758.0	0.193601	Y
6	IC 410-486676/8	300.0	56.459354	50.0	835548.0	0.188198	Y



Calibration / Chlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

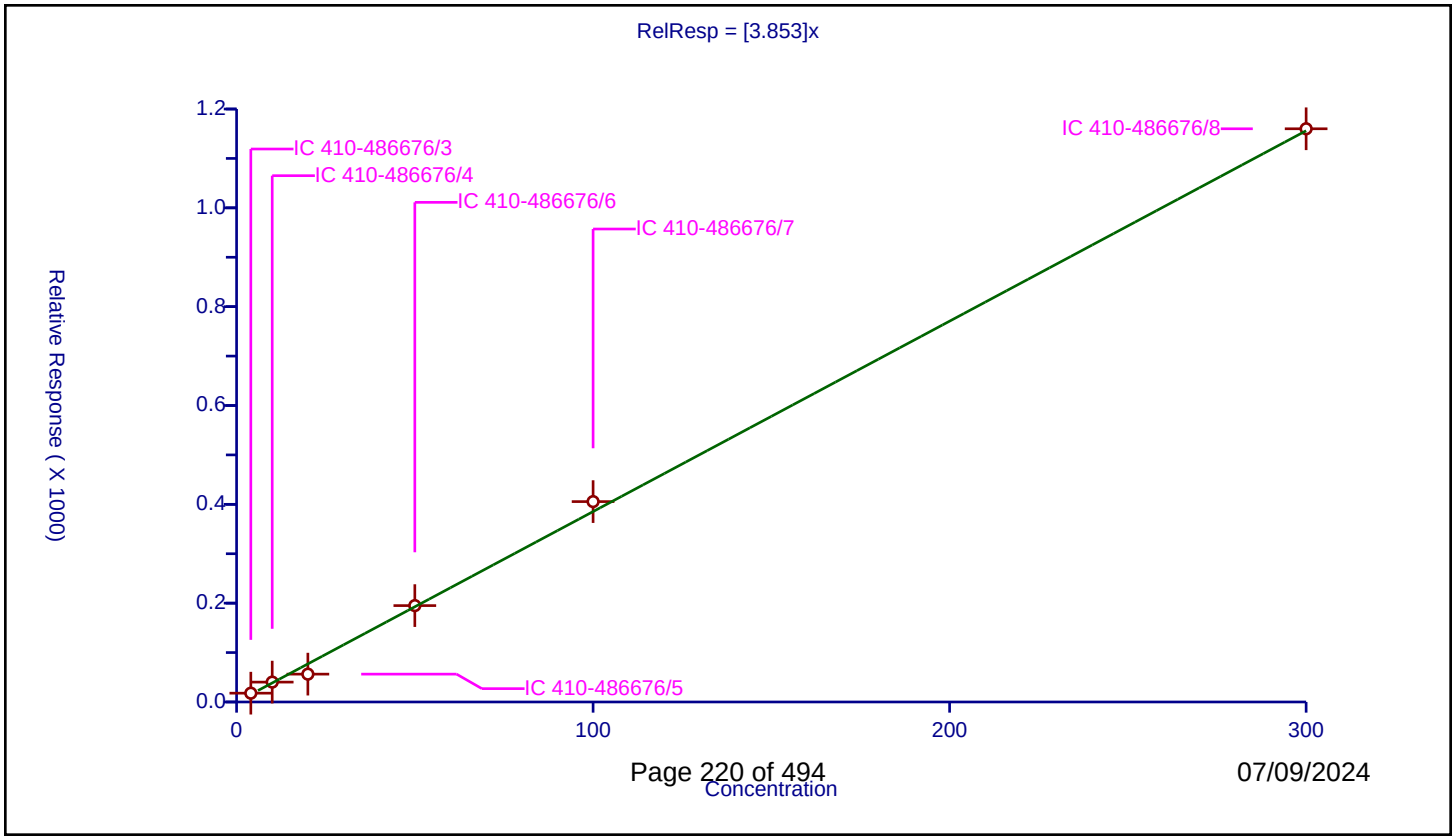
Curve Coefficients

Intercept:	0
Slope:	3.853

Error Coefficients

Relative Standard Deviation:	14.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/3	4.0	17.814533	250.0	403996.0	4.453633	Y
2	IC 410-486676/4	10.0	40.253332	250.0	397700.0	4.025333	Y
3	IC 410-486676/5	20.0	56.370345	250.0	405967.0	2.818517	Y
4	IC 410-486676/6	50.0	195.042319	250.0	406440.0	3.900846	Y
5	IC 410-486676/7	100.0	405.527759	250.0	416326.0	4.055278	Y
6	IC 410-486676/8	300.0	1160.017248	250.0	427293.0	3.866724	Y



Calibration / 2-Chloro-1,1,1-Trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

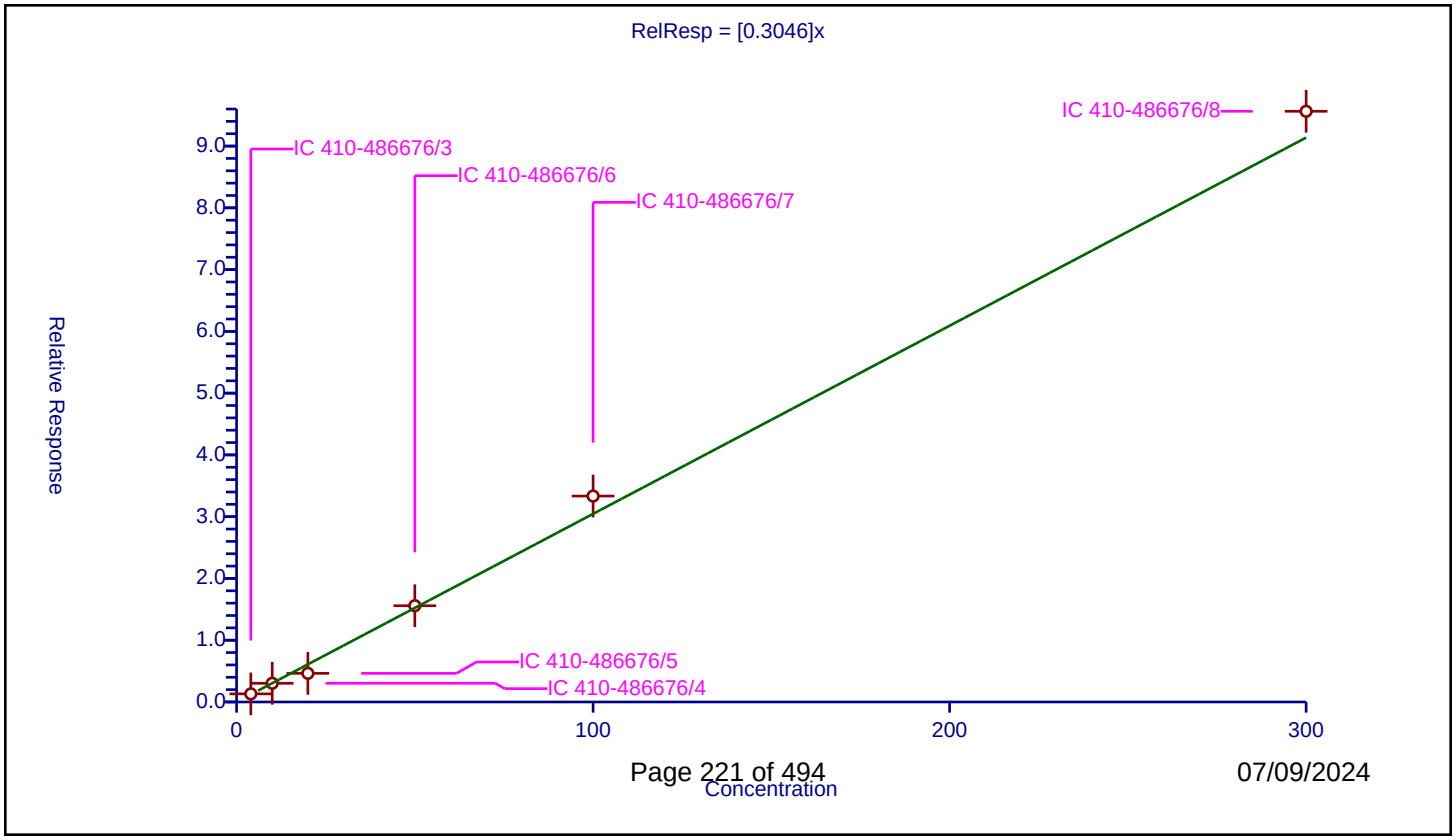
Curve Coefficients

Intercept:	0
Slope:	0.3046

Error Coefficients

Relative Standard Deviation:	12.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/3	4.0	1.315763	50.0	840767.0	0.328941	Y
2	IC 410-486676/4	10.0	3.028373	50.0	843324.0	0.302837	Y
3	IC 410-486676/5	20.0	4.634904	50.0	823318.0	0.231745	Y
4	IC 410-486676/6	50.0	15.584623	50.0	833161.0	0.311692	Y
5	IC 410-486676/7	100.0	33.338033	50.0	829758.0	0.33338	Y
6	IC 410-486676/8	300.0	95.631729	50.0	835548.0	0.318772	Y



Calibration / Ethanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

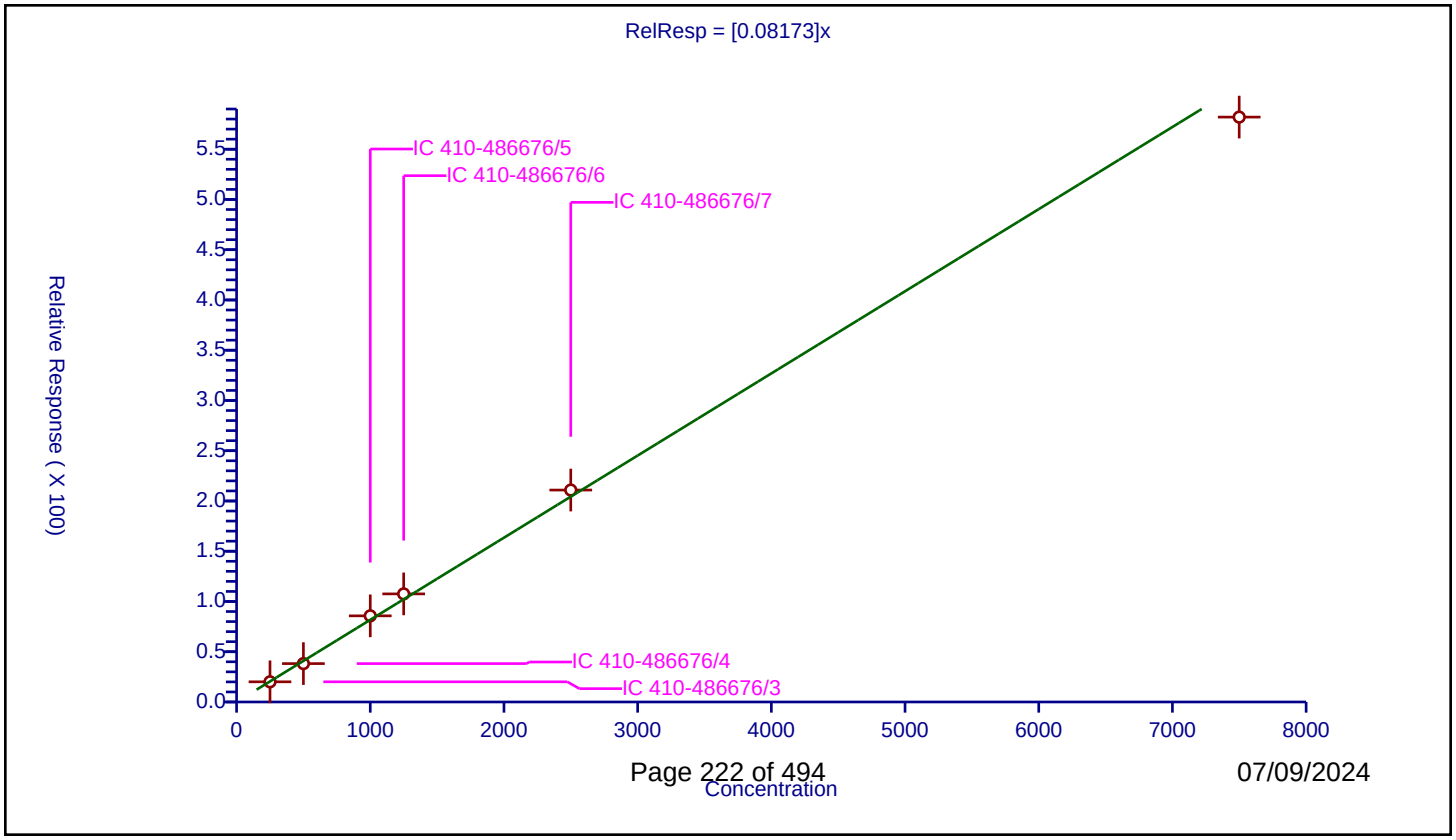
Curve Coefficients

Intercept:	0
Slope:	0.08173

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/3	249.984	20.060223	250.0	403996.0	0.080246	Y
2	IC 410-486676/4	499.968	38.201534	250.0	397700.0	0.076408	Y
3	IC 410-486676/5	999.936	85.706474	250.0	405967.0	0.085712	Y
4	IC 410-486676/6	1249.92	107.563232	250.0	406440.0	0.086056	Y
5	IC 410-486676/7	2499.84	210.864803	250.0	416326.0	0.084351	Y
6	IC 410-486676/8	7499.52	581.958399	250.0	427293.0	0.077599	Y



Calibration / Acetonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

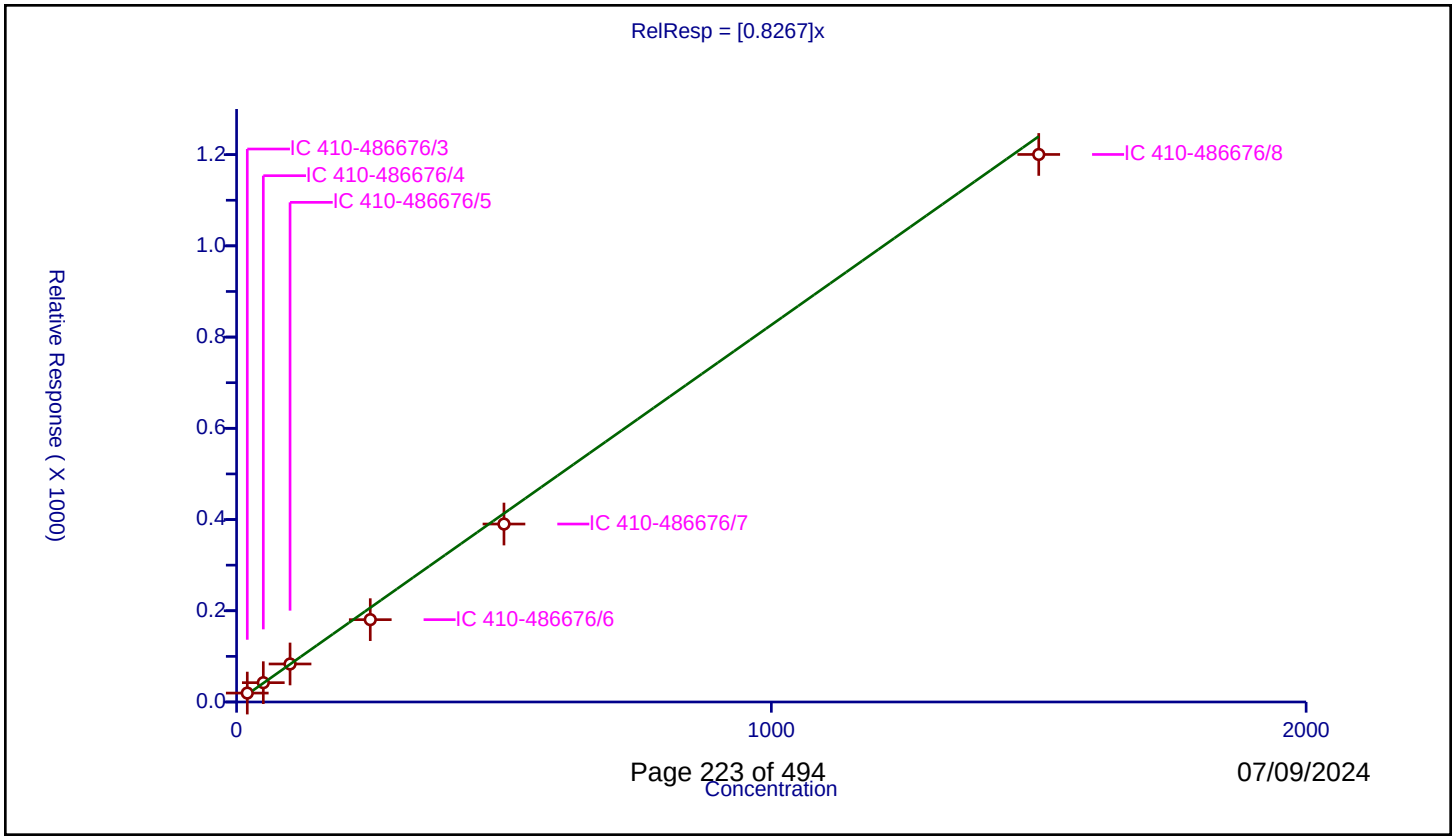
Curve Coefficients

Intercept:	0
Slope:	0.8267

Error Coefficients

Relative Standard Deviation:	10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/3	20.0	19.536085	250.0	403996.0	0.976804	Y
2	IC 410-486676/4	50.0	42.354161	250.0	397700.0	0.847083	Y
3	IC 410-486676/5	100.0	83.342981	250.0	405967.0	0.83343	Y
4	IC 410-486676/6	250.0	180.505118	250.0	406440.0	0.72202	Y
5	IC 410-486676/7	500.0	390.171404	250.0	416326.0	0.780343	Y
6	IC 410-486676/8	1500.0	1200.390598	250.0	427293.0	0.80026	Y



Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

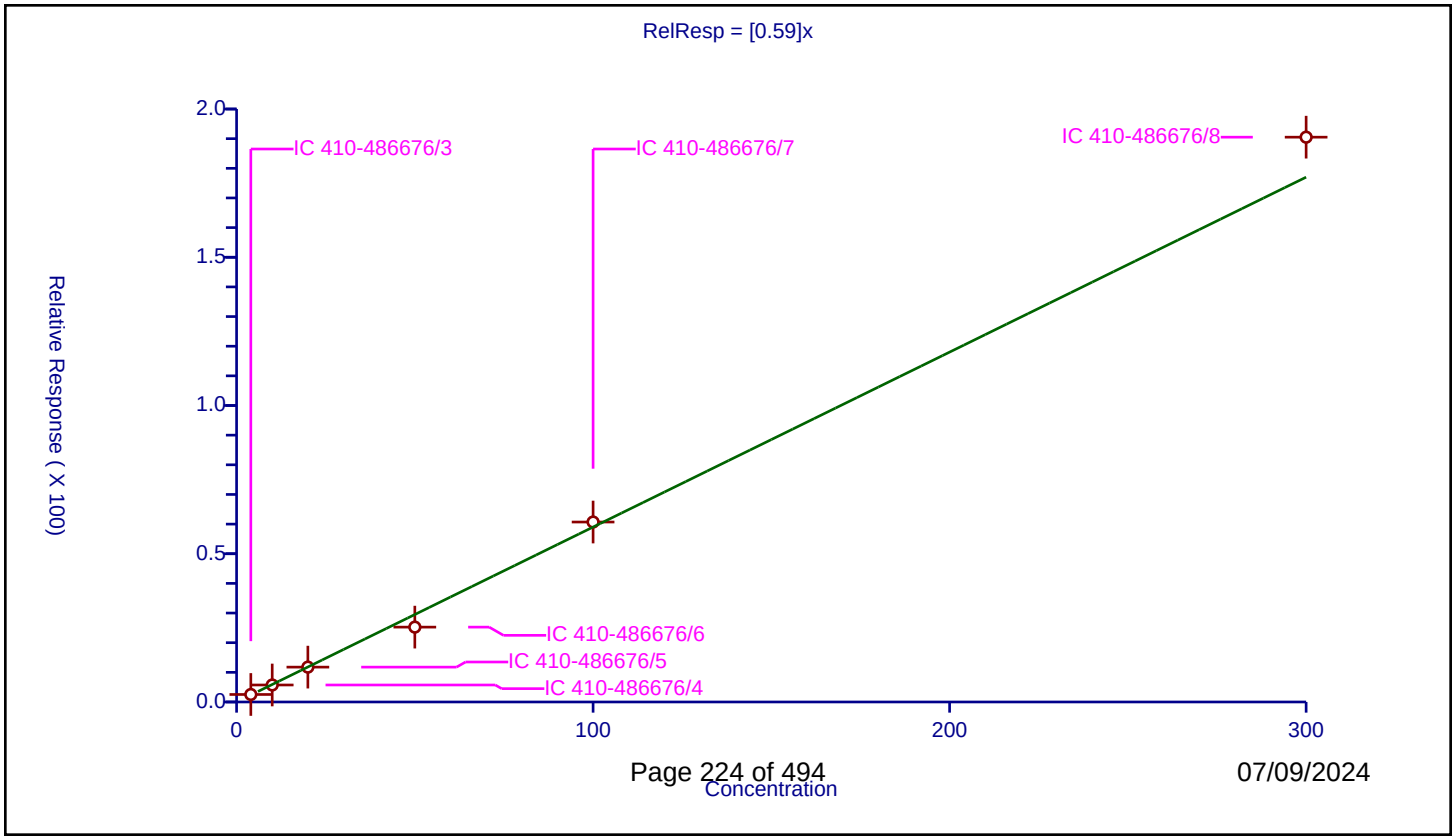
Curve Coefficients

Intercept:	0
Slope:	0.59

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/3	4.0	2.527573	50.0	840767.0	0.631893	Y
2	IC 410-486676/4	10.0	5.733502	50.0	843324.0	0.57335	Y
3	IC 410-486676/5	20.0	11.759004	50.0	823318.0	0.58795	Y
4	IC 410-486676/6	50.0	25.251242	50.0	833161.0	0.505025	Y
5	IC 410-486676/7	100.0	60.701313	50.0	829758.0	0.607013	Y
6	IC 410-486676/8	300.0	190.505812	50.0	835548.0	0.635019	Y



07/09/2024

Calibration / Ethyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

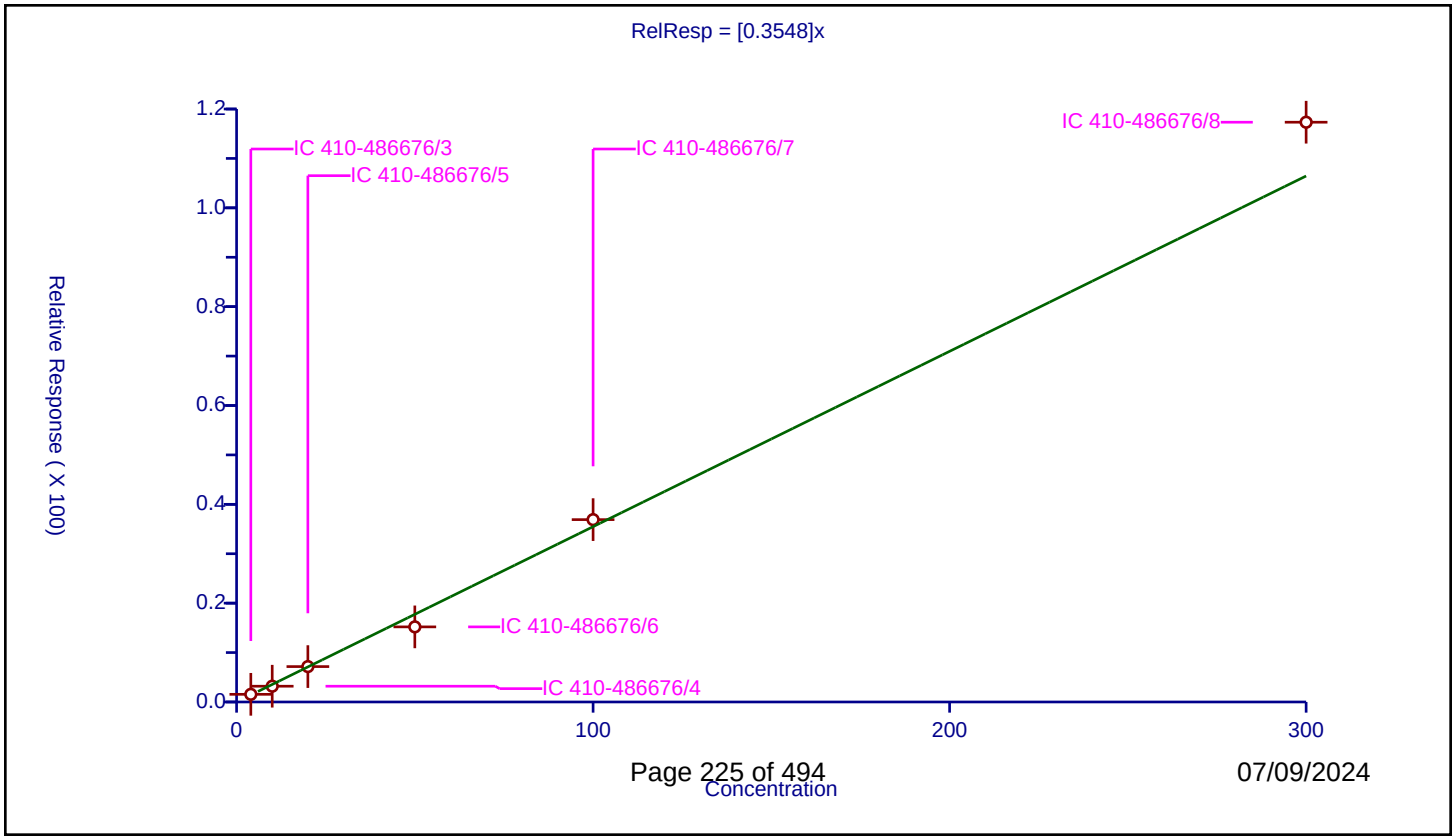
Curve Coefficients

Intercept:	0
Slope:	0.3548

Error Coefficients

Relative Standard Deviation:	10.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/3	4.0	1.548883	50.0	840767.0	0.387221	Y
2	IC 410-486676/4	10.0	3.193435	50.0	843324.0	0.319343	Y
3	IC 410-486676/5	20.0	7.165032	50.0	823318.0	0.358252	Y
4	IC 410-486676/6	50.0	15.198443	50.0	833161.0	0.303969	Y
5	IC 410-486676/7	100.0	36.903169	50.0	829758.0	0.369032	Y
6	IC 410-486676/8	300.0	117.326533	50.0	835548.0	0.391088	Y



Calibration / Isopropyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

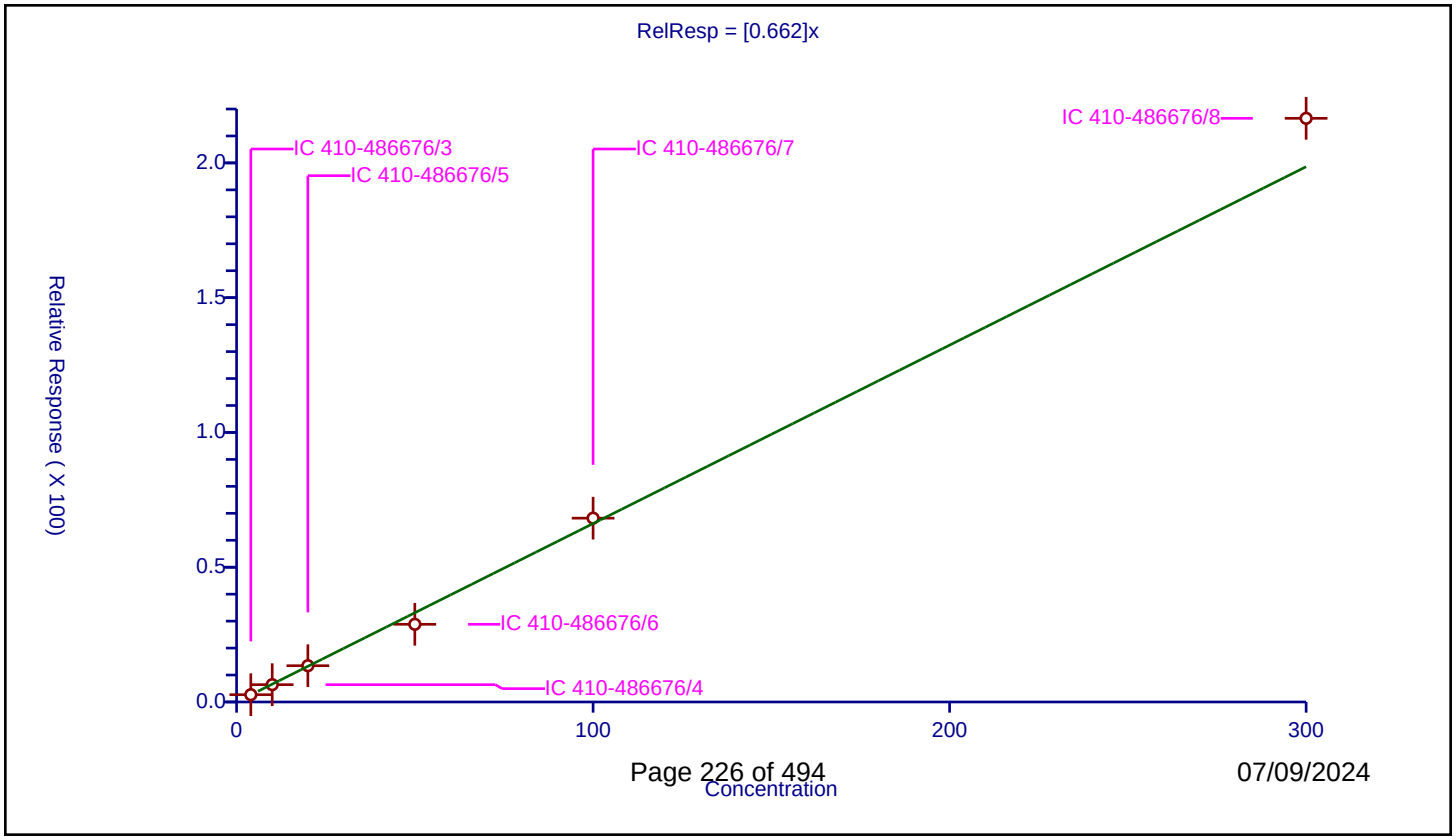
Curve Coefficients

Intercept:	0
Slope:	0.662

Error Coefficients

Relative Standard Deviation:	7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/3	4.0	2.703484	50.0	840767.0	0.675871	Y
2	IC 410-486676/4	10.0	6.42683	50.0	843324.0	0.642683	Y
3	IC 410-486676/5	20.0	13.455858	50.0	823318.0	0.672793	Y
4	IC 410-486676/6	50.0	28.826721	50.0	833161.0	0.576534	Y
5	IC 410-486676/7	100.0	68.203681	50.0	829758.0	0.682037	Y
6	IC 410-486676/8	300.0	216.547643	50.0	835548.0	0.721825	Y



Calibration / n-Propyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

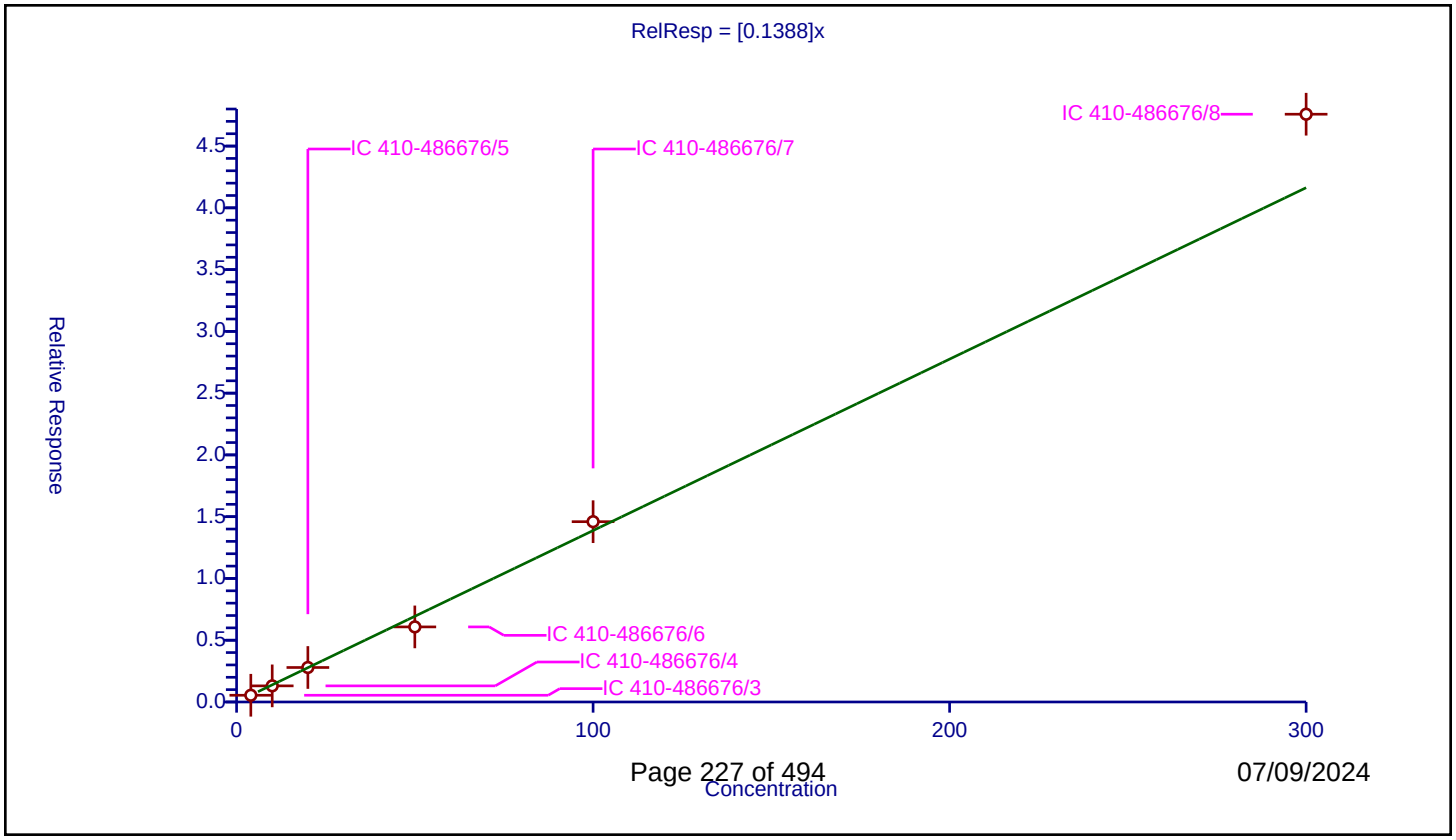
Curve Coefficients

Intercept:	0
Slope:	0.1388

Error Coefficients

Relative Standard Deviation:	9.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/3	4.0	0.545335	50.0	840767.0	0.136334	Y
2	IC 410-486676/4	10.0	1.30537	50.0	843324.0	0.130537	Y
3	IC 410-486676/5	20.0	2.792663	50.0	823318.0	0.139633	Y
4	IC 410-486676/6	50.0	6.076497	50.0	833161.0	0.12153	Y
5	IC 410-486676/7	100.0	14.596304	50.0	829758.0	0.145963	Y
6	IC 410-486676/8	300.0	47.578475	50.0	835548.0	0.158595	Y



Calibration / 3,4-Dichloro-1-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

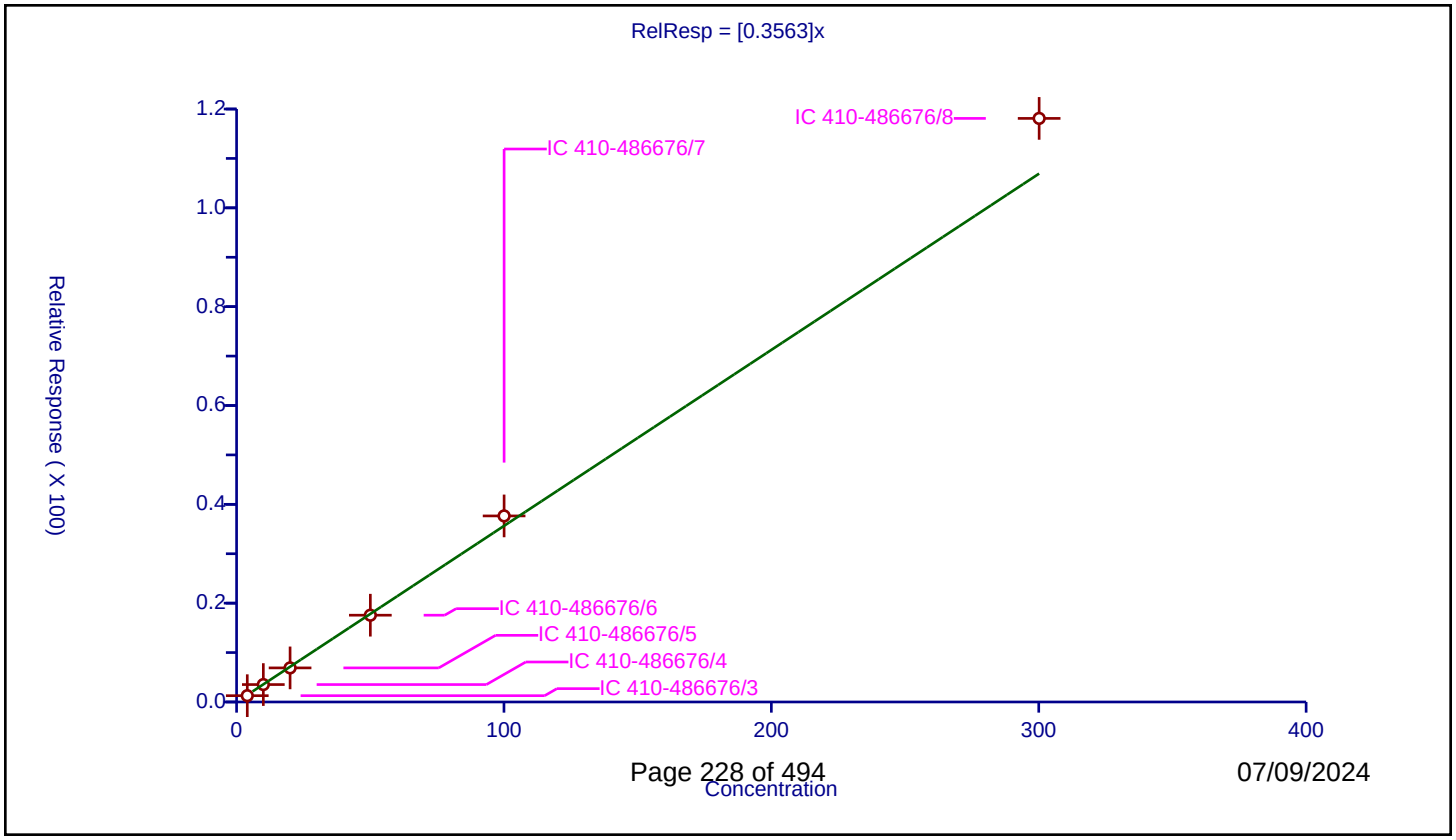
Curve Coefficients

Intercept:	0
Slope:	0.3563

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/3	4.002102	1.278822	50.0	619281.0	0.319538	Y
2	IC 410-486676/4	10.005254	3.524477	50.0	628689.0	0.352263	Y
3	IC 410-486676/5	20.010508	6.901152	50.0	616542.0	0.344876	Y
4	IC 410-486676/6	50.02627	17.560515	50.0	620090.0	0.351026	Y
5	IC 410-486676/7	100.05254	37.653052	50.0	619886.0	0.376333	Y
6	IC 410-486676/8	300.15762	118.1017	50.0	627256.0	0.393466	Y



Calibration / n-Butyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

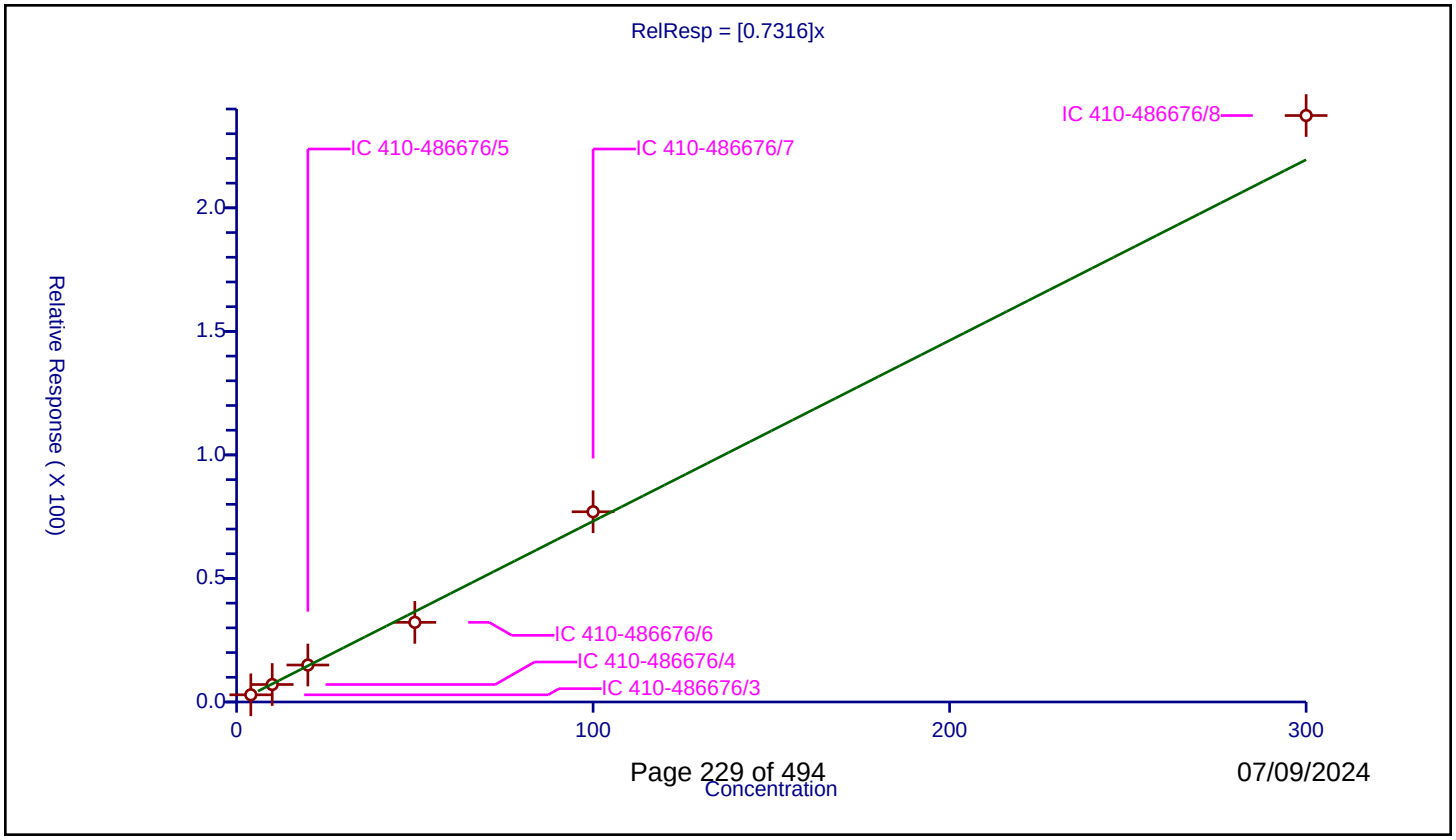
Curve Coefficients

Intercept:	0
Slope:	0.7316

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/3	4.0	2.912571	50.0	619281.0	0.728143	Y
2	IC 410-486676/4	10.0	7.072416	50.0	628689.0	0.707242	Y
3	IC 410-486676/5	20.0	14.967756	50.0	616542.0	0.748388	Y
4	IC 410-486676/6	50.0	32.23782	50.0	620090.0	0.644756	Y
5	IC 410-486676/7	100.0	76.988914	50.0	619886.0	0.769889	Y
6	IC 410-486676/8	300.0	237.370388	50.0	627256.0	0.791235	Y



Calibration / cis-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

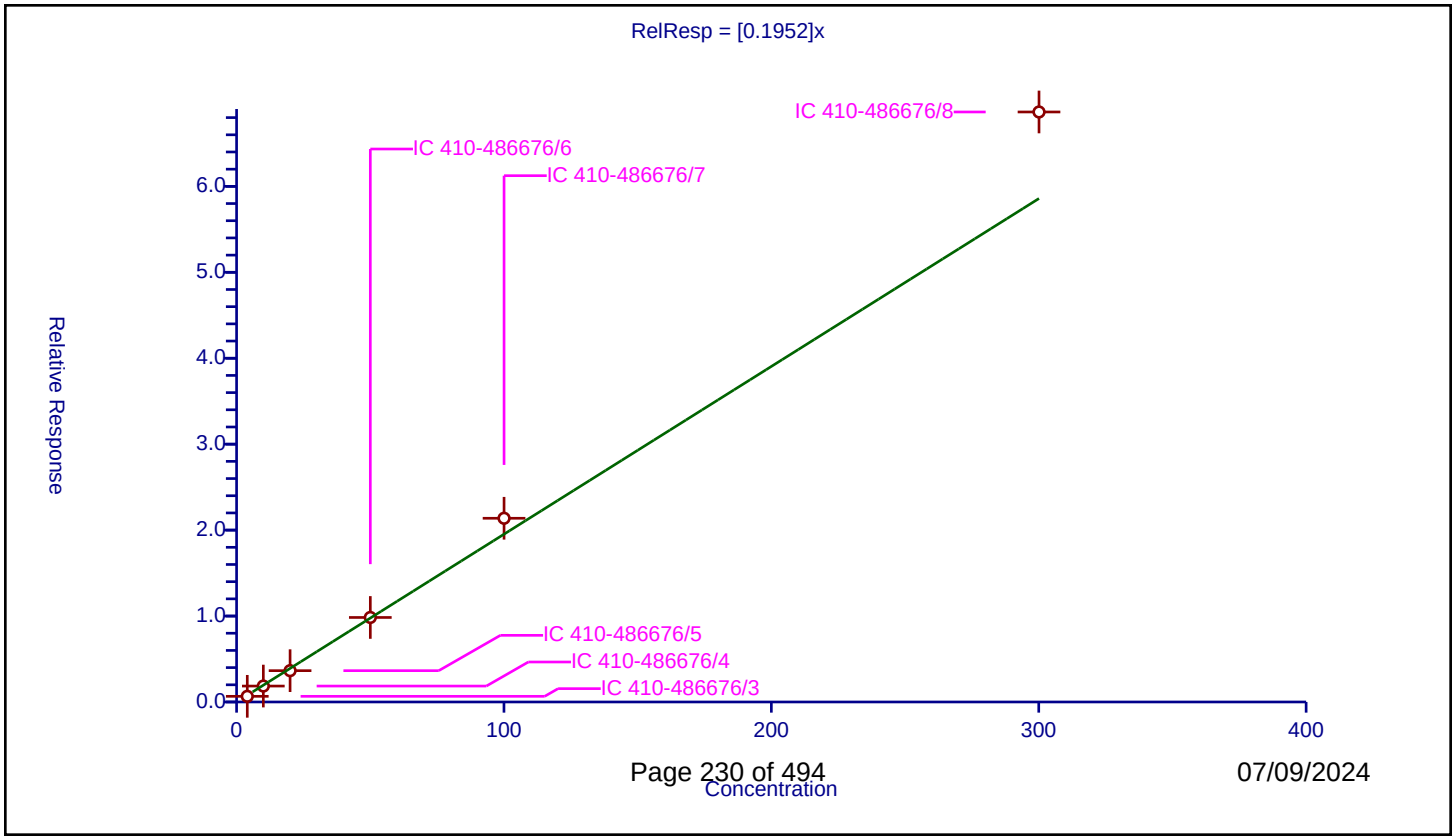
Curve Coefficients

Intercept:	0
Slope:	0.1952

Error Coefficients

Relative Standard Deviation:	11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/3	4.0014	0.659313	50.0	619281.0	0.164771	Y
2	IC 410-486676/4	10.0035	1.854255	50.0	628689.0	0.185361	Y
3	IC 410-486676/5	20.007	3.643142	50.0	616542.0	0.182093	Y
4	IC 410-486676/6	50.0175	9.835185	50.0	620090.0	0.196635	Y
5	IC 410-486676/7	100.035	21.379576	50.0	619886.0	0.213721	Y
6	IC 410-486676/8	300.105	68.655541	50.0	627256.0	0.228772	Y



Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

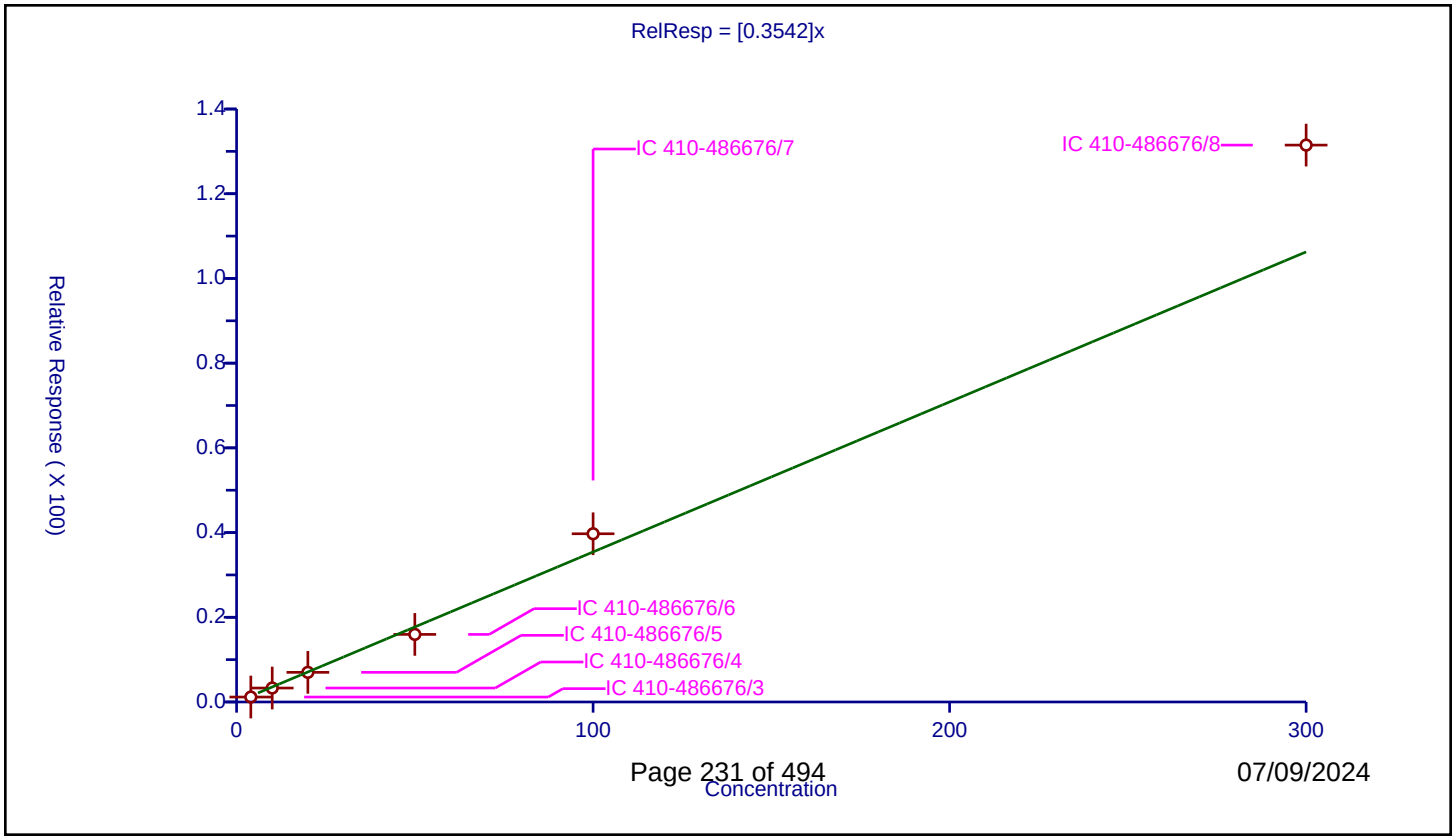
Curve Coefficients

Intercept:	0
Slope:	0.3542

Error Coefficients

Relative Standard Deviation:	15.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/3	4.0	1.165729	50.0	387054.0	0.291432	Y
2	IC 410-486676/4	10.0	3.295554	50.0	392362.0	0.329555	Y
3	IC 410-486676/5	20.0	6.9955	50.0	390451.0	0.349775	Y
4	IC 410-486676/6	50.0	15.958523	50.0	384644.0	0.31917	Y
5	IC 410-486676/7	100.0	39.716096	50.0	381256.0	0.397161	Y
6	IC 410-486676/8	300.0	131.481236	50.0	384294.0	0.438271	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1 Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 16:50 Calibration End Date: 03/25/2024 20:33 Calibration ID: 59886

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-486676/12	YM25X11.D
Level 2	IC 410-486676/13	YM25X12.D
Level 3	IC 410-486676/14	YM25X21.D
Level 4	IC 410-486676/15	YM25X14.D
Level 5	ICIS 410-486676/16	YM25X15.D
Level 6	IC 410-486676/17	YM25X16.D
Level 7	IC 410-486676/18	YM25X17.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.4013 0.5117	0.4542 0.4841	0.5236	0.4432	0.4553	Ave		0.4676			0.1000	9.0		20.0			
Chloromethane	0.4756 0.5220	0.4904 0.5050	0.5172	0.5206	0.4708	Ave		0.5002			0.1000	4.3		20.0			
Vinyl chloride	0.3937 0.4935	0.4583 0.4764	0.4930	0.4820	0.4458	Ave		0.4632			0.1000	7.6		20.0			
1,3-Butadiene	0.4391 0.4573	0.4594 0.4313	0.5006	0.4436	0.4064	Ave		0.4482				6.5		20.0			
Bromomethane	0.2943 0.3266	0.3058 0.3107	0.3367	0.3239	0.3009	Ave		0.3141			0.1000	4.9		20.0			
Chloroethane	0.1965 0.2278	0.2149 0.2213	0.2337	0.2269	0.2047	Ave		0.2180			0.1000	6.2		20.0			
Dichlorofluoromethane	0.7237 0.6533	0.6203 0.6348	0.6716	0.6505	0.5945	Ave		0.6498			0.1000	6.3		20.0			
Trichlorofluoromethane	0.3933 0.5187	0.4625 0.4967	0.5167	0.4712	0.4577	Ave		0.4738			0.1000	9.1		20.0			
n-Pentane	0.3921 0.3929	0.3798 0.3898	0.3555	0.3997	0.3708	Ave		0.3829				4.0		20.0			
Ethyl ether	0.1882 0.2061	0.1936 0.2036	0.1966	0.2005	0.2090	Ave		0.1997				3.7		20.0			
Freon 123a	0.3096 0.3024	0.3183 0.3026	0.3111	0.3032	0.2813	Ave		0.3041				3.8		20.0			
Acrolein	1.0596 1.0909	0.9796 1.0036	1.0143	1.0773	1.0492	Ave		1.0392				3.9		20.0			
1,1-Dichloroethene	0.1724 0.2151	0.2104 0.2152	0.1975	0.2173	0.2087	Ave		0.2053			0.1000	7.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1 Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 16:50 Calibration End Date: 03/25/2024 20:33 Calibration ID: 59886

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetone	0.5146 0.5795	0.4785 0.5514	0.5532	0.5988	0.5708	Ave		0.5495			0.1000	7.4		20.0			
Freon 113	0.2158 0.2815	0.2671 0.2743	0.2522	0.2847	0.2635	Ave		0.2627			0.1000	8.9		20.0			
2-Propanol	0.4837 0.4669	0.4247 0.3805	0.4663	0.6188	0.6293	Ave		0.4957				19.0		20.0			
Methyl iodide	0.3931 0.4540	0.4412 0.4508	0.4109	0.4611	0.4396	Ave		0.4358				5.7		20.0			
Carbon disulfide	0.7479 0.8299	0.7716 0.8357	0.7334	0.8203	0.7763	Ave		0.7879			0.1000	5.2		20.0			
Methyl acetate	0.2942 0.3163	0.2849 0.2975	0.2743	0.3304	0.3511	Ave		0.3070			0.1000	8.8		20.0			
Allyl chloride	0.4429 0.3478	0.3754 0.3421	0.3136	0.3441	0.3441	Ave		0.3586				11.5		20.0			
Methylene Chloride	0.2357 0.2580	0.2446 0.2557	0.2285	0.2610	0.2539	Ave		0.2482			0.1000	5.0		20.0			
t-Butyl alcohol	1.2328 1.0070	0.8651 0.8301	0.9210	1.1760	1.2379	Ave		1.0385				16.9		20.0			
Acrylonitrile	0.1611 0.1758	0.1475 0.1622	0.1473	0.1873	0.1879	Ave		0.1670				10.2		20.0			
Methyl tert-butyl ether	0.9693 0.9549	0.8884 0.8817	0.8568	0.9983	0.9922	Ave		0.9345			0.1000	6.2		20.0			
trans-1,2-Dichloroethene	0.1822 0.2297	0.2243 0.2193	0.2103	0.2349	0.2263	Ave		0.2181			0.1000	8.1		20.0			
n-Hexane	0.3001 0.3248	0.3066 0.3115	0.3073	0.3365	0.3076	Ave		0.3135				4.0		20.0			
1,1-Dichloroethane	0.3632 0.4058	0.3955 0.3932	0.3660	0.4207	0.4157	Ave		0.3943			0.2000	5.7		20.0			
Isopropyl ether	0.7940 0.8253	0.7528 0.7841	0.7079	0.8393	0.8381	Ave		0.7916				6.1		20.0			
2-Chloro-1,3-butadiene	0.3053 0.3614	0.3470 0.3434	0.3256	0.3755	0.3615	Ave		0.3457				6.9		20.0			
Ethyl t-butyl ether	0.8727 0.8844	0.7856 0.8340	0.7504	0.8998	0.9117	Ave		0.8484				7.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1 Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 16:50 Calibration End Date: 03/25/2024 20:33 Calibration ID: 59886

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Butanone (MEK)	0.3726 0.2611	0.2517 0.2521	0.2280	0.2889	0.2573	Ave		0.2731			0.1000	17.4		20.0			
cis-1,2-Dichloroethene	0.2461 0.2667	0.2529 0.2539	0.2367	0.2746	0.2713	Ave		0.2574			0.1000	5.4		20.0			
2,2-Dichloropropane	0.3726 0.4391	0.4224 0.4327	0.3820	0.4416	0.4263	Ave		0.4166				6.7		20.0			
Propionitrile	0.8606 0.9407	0.7510 0.8555	0.7869	0.9897	1.0915	Ave		0.8965				13.3		20.0			
Methyl acrylate	0.3648 0.3897	0.3298 0.3981	0.3634	0.3594	0.4100	Ave		0.3736				7.3		20.0			
Methacrylonitrile	0.1655 0.1822	0.1519 0.1667	0.1485	0.1914	0.1978	Ave		0.1720				11.1		20.0			
Bromochloromethane	0.1188 0.1388	0.1244 0.1295	0.1197	0.1452	0.1418	Ave		0.1312				8.2		20.0			
Tetrahydrofuran	0.8636 0.8108	0.7295 0.7200	0.6886	0.8602	0.8976	Ave		0.7957				10.4		20.0			
Chloroform	1.9204 0.4403	0.7988 0.4044	0.4511	0.5239	0.4655	Lin1	1.4950	0.4088			0.2000				0.9970		0.9900
1,1,1-Trichloroethane	0.3606 0.4237	0.4027 0.4184	0.3694	0.4317	0.4147	Ave		0.4030			0.1000	6.8		20.0			
Cyclohexane	0.3894 0.4677	0.4517 0.4702	0.4168	0.4684	0.4409	Ave		0.4436			0.1000	6.9		20.0			
1,1-Dichloropropene	0.2559 0.3266	0.3140 0.3117	0.2848	0.3332	0.3171	Ave		0.3062				8.8		20.0			
Carbon tetrachloride	0.2766 0.3495	0.3181 0.3500	0.2879	0.3443	0.3360	Ave		0.3232			0.1000	9.3		20.0			
Isobutyl alcohol	+++++ 0.3360	0.2981 0.2867	0.2662	0.3659	0.4086	Ave		0.3269				16.4		20.0			
Benzene	0.9235 1.0061	0.9576 0.9657	0.8809	1.0110	1.0043	Ave		0.9642			0.5000	5.0		20.0			
1,2-Dichloroethane	0.3334 0.3648	0.3316 0.3379	0.3176	0.3735	0.3749	Ave		0.3477			0.1000	6.6		20.0			
t-Amyl methyl ether	0.8794 0.9041	0.7752 0.8515	0.7473	0.9116	0.9488	Ave		0.8597				8.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1 Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 16:50 Calibration End Date: 03/25/2024 20:33 Calibration ID: 59886

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Heptane	0.3964 0.3553	0.3463 0.3546	0.3403	0.3516	0.3339	Ave		0.3541				5.7		20.0			
n-Butanol	0.2661 0.2601	0.1805 0.2288	0.1870	0.2729	0.3039	Ave		0.2427				18.9		20.0			
Trichloroethene	0.2238 0.2639	0.2430 0.2586	0.2194	0.2645	0.2607	Ave		0.2477			0.2000	7.8		20.0			
Ethyl acrylate	0.3887 0.4469	0.3727 0.4817	0.4129	0.4161	0.4413	Ave		0.4229				8.8		20.0			
Methylcyclohexane	0.3705 0.4863	0.4418 0.4997	0.4205	0.4894	0.4612	Ave		0.4528			0.1000	10.2		20.0			
1,2-Dichloropropane	0.2385 0.2708	0.2358 0.2671	0.2214	0.2690	0.2753	Ave		0.2540			0.1000	8.5		20.0			
t-Amyl ethyl ether	0.4167 0.4358	0.3779 0.4376	0.3549	0.4431	0.4502	Ave		0.4166				8.7		20.0			
Methyl methacrylate	0.2520 0.2942	0.2322 0.2780	0.2228	0.3020	0.3167	Ave		0.2711				13.3		20.0			
1,4-Dioxane	+++++ 0.0839	+++++ 0.0728	0.0633	0.0929	0.0973	Ave		0.0820			0.0050	17.1		20.0			
Dibromomethane	0.1586 0.1947	0.1614 0.1863	0.1621	0.1971	0.2013	Ave		0.1802				10.4		20.0			
Bromodichloromethane	0.2962 0.3449	0.2856 0.3362	0.2738	0.3327	0.3507	Ave		0.3171			0.2000	9.8		20.0			
2-Nitropropane	1.7382 1.5725	1.3394 1.3939	1.2799	1.6276	1.7855	Ave		1.5339				13.0		20.0			
2-Chloroethyl vinyl ether	+++++ 0.2043	0.1816 0.2038	0.1488	0.2100	0.2176	Ave		0.1943				13.0		20.0			
cis-1,3-Dichloropropene	0.3641 0.4387	0.3498 0.4400	0.3399	0.4193	0.4452	Ave		0.3996			0.2000	11.6		20.0			
4-Methyl-2-pentanone (MIBK)	0.5222 0.5437	0.4926 0.5064	0.4691	0.6387	0.5595	Ave		0.5332			0.1000	10.4		20.0			
Toluene	0.8120 0.8723	0.7948 0.8166	0.7445	0.8751	0.8795	Ave		0.8278			0.4000	6.1		20.0			
trans-1,3-Dichloropropene	0.4632 0.5425	0.4286 0.5104	0.4128	0.5289	0.5684	Ave		0.4935			0.1000	12.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1 Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 16:50 Calibration End Date: 03/25/2024 20:33 Calibration ID: 59886

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethyl methacrylate	0.6291 0.6634	0.5601 0.5833	0.5374	0.6937	0.7357	Ave		0.6289				11.6		20.0			
1,1,2-Trichloroethane	0.3603 0.3503	0.2970 0.3185	0.2936	0.3631	0.3792	Ave		0.3374			0.1000	10.1		20.0			
Tetrachloroethene	0.3161 0.3670	0.3619 0.3529	0.3241	0.3822	0.3718	Ave		0.3537			0.2000	7.0		20.0			
1,3-Dichloropropane	0.5452 0.5671	0.4909 0.5277	0.4674	0.5792	0.5999	Ave		0.5396				8.9		20.0			
2-Hexanone	0.5717 0.4995	0.5019 0.4485	0.4364	0.6186	0.5196	Ave		0.5137			0.1000	12.6		20.0			
Dibromochloromethane	0.3194 0.3925	0.2904 0.3672	0.2881	0.3776	0.4098	Ave		0.3493				14.2		20.0			
1,2-Dibromoethane (EDB)	0.3343 0.3834	0.3027 0.3529	0.3088	0.3945	0.4131	Ave		0.3557			0.1000	12.1		20.0			
1-Chlorohexane	0.5203 0.4530	0.4476 0.4291	0.4088	0.4830	0.4610	Ave		0.4576				7.9		20.0			
Chlorobenzene	0.9630 0.9921	0.8923 0.9268	0.8413	1.0151	1.0349	Ave		0.9522			0.5000	7.3		20.0			
1,1,1,2-Tetrachloroethane	0.3368 0.4118	0.3358 0.3762	0.3231	0.4156	0.4382	Ave		0.3768				12.2		20.0			
Ethylbenzene	1.7171 1.7624	1.6438 1.6365	1.5490	1.8366	1.8453	Ave		1.7130			0.1000	6.4		20.0			
m&p-Xylene	0.6681 0.6955	0.6352 0.6478	0.6113	0.7287	0.7258	Ave		0.6732			0.1000	6.7		20.0			
n-Butyl acrylate	0.7259 0.8158	0.7650 0.8290	0.8456	0.8138	0.8444	Ave		0.8056				5.5		20.0			
o-Xylene	0.6710 0.7548	0.6665 0.6911	0.6445	0.7917	0.7931	Ave		0.7161			0.3000	8.7		20.0			
Styrene	1.0955 1.1898	1.0639 1.0879	1.0032	1.2608	1.2756	Ave		1.1395			0.3000	9.1		20.0			
Bromoform	0.2896 0.3312	0.2328 0.3051	0.2305	0.3194	0.3570	Ave		0.2951			0.1000	16.3		20.0			
Isopropylbenzene	1.6977 1.8521	1.6347 1.6891	1.6070	1.9698	1.9505	Ave		1.7716			0.1000	8.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1 Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 16:50 Calibration End Date: 03/25/2024 20:33 Calibration ID: 59886

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Cyclohexanone	0.1113 0.4429	0.4114 0.4600	0.3939	0.4241	0.4362	Lin1	-16.63	0.4628							1.0000		0.9900
1,1,2,2-Tetrachloroethane	1.1651 1.2195	0.9691 1.0646	0.9642	1.2907	1.3381	Ave		1.1444			0.3000	13.1		20.0			
Bromobenzene	0.7250 0.8115	0.6790 0.7406	0.6730	0.8366	0.8523	Ave		0.7597				9.7		20.0			
trans-1,4-Dichloro-2-butene	0.2713 0.3524	0.2378 0.3119	0.2639	0.3540	0.3865	Ave		0.3111				17.8		20.0			
1,2,3-Trichloropropane	0.3663 0.3695	0.2976 0.3226	0.3081	0.3937	0.4090	Ave		0.3524				12.3		20.0			
N-Propylbenzene	3.4069 3.7253	3.2324 3.3811	3.2072	3.8631	3.8328	Ave		3.5212				8.0		20.0			
2-Chlorotoluene	0.7436 0.8011	0.6885 0.7531	0.6660	0.8222	0.8347	Ave		0.7585				8.6		20.0			
1,3,5-Trimethylbenzene	2.4590 2.9895	2.4432 2.8074	2.4284	3.0496	3.0690	Ave		2.7494				10.9		20.0			
4-Chlorotoluene	0.6587 0.7695	0.6605 0.7269	0.6550	0.8109	0.8147	Ave		0.7280				9.8		20.0			
tert-Butylbenzene	0.4402 0.5786	0.4374 0.5617	0.4371	0.5561	0.5891	Ave		0.5143				14.0		20.0			
1,2,4-Trimethylbenzene	2.7255 3.0757	2.5430 2.8380	2.5269	3.1638	3.1937	Ave		2.8666				9.9		20.0			
sec-Butylbenzene	3.1146 3.8020	3.0764 3.4863	3.0462	3.8854	3.8875	Ave		3.4712				11.3		20.0			
1,3-Dichlorobenzene	1.5809 1.5869	1.3603 1.4433	1.3633	1.6885	1.6885	Ave		1.5303			0.6000	9.2		20.0			
p-Isopropyltoluene	2.8728 3.3892	2.7298 3.1113	2.7134	3.4380	3.4897	Ave		3.1063				10.9		20.0			
1,4-Dichlorobenzene	1.6570 1.6133	1.4457 1.4740	1.4021	1.7352	1.7391	Ave		1.5809			0.5000	8.8		20.0			
1,2,3-Trimethylbenzene	2.8990 3.3720	2.7173 3.0731	2.6569	3.4026	3.5027	Ave		3.0891				11.1		20.0			
Benzyl chloride	2.2030 2.5645	1.8694 2.2827	1.9525	2.6265	2.7918	Ave		2.3272				15.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1 Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 16:50 Calibration End Date: 03/25/2024 20:33 Calibration ID: 59886

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,3-Diethylbenzene	1.6877 1.9893	1.6495 1.8713	1.6398	2.0473	2.0726	Ave		1.8511				10.3		20.0			
1,4-Diethylbenzene	1.8282 2.0516	1.7158 1.9162	1.7613	2.1607	2.1567	Ave		1.9415				9.5		20.0			
n-Butylbenzene	1.4682 1.6442	1.4124 1.5612	1.4188	1.6998	1.6993	Ave		1.5577				8.1		20.0			
1,2-Dichlorobenzene	1.6996 1.7239	1.4853 1.5484	1.4668	1.8172	1.8557	Ave		1.6567			0.4000	9.5		20.0			
1,2-Diethylbenzene	1.4943 1.6969	1.3156 1.6135	1.3753	1.7055	1.7563	Ave		1.5653				11.0		20.0			
1,2-Dibromo-3-Chloropropane	0.3625 0.4039	0.2896 0.3579	0.3069	0.4182	0.4522	Ave		0.3702			0.0500	15.9		20.0			
1,3,5-Trichlorobenzene	1.2921 1.4117	1.1554 1.3012	1.2246	1.4617	1.5009	Ave		1.3354				9.5		20.0			
1,2,4-Trichlorobenzene	1.3590 1.4687	1.1995 1.2804	1.2505	1.5270	1.5598	Ave		1.3778			0.2000	10.3		20.0			
2-Ethylhexyl acrylate	0.9964 1.3770	1.0131 1.3272	1.2649	1.2205	1.3580	Ave		1.2224				12.9		20.0			
Hexachlorobutadiene	0.4338 0.5457	0.4103 0.5163	0.4711	0.5386	0.5587	Ave		0.4964				11.8		20.0			
Naphthalene	5.4275 5.5419	4.5396 4.3393	4.7084	5.9931	6.1336	Ave		5.2405				13.7		20.0			
1,2,3-Trichlorobenzene	1.4021 1.5050	1.2325 1.2643	1.2889	1.5839	1.6151	Ave		1.4131				11.1		20.0			
2-Methylnaphthalene	2.8225 3.3241	2.3220 2.5585	2.7178	3.3676	3.6066	Ave		2.9599				16.1		20.0			
Dibromofluoromethane (Surr)	0.2380 0.2358	0.2384 0.2300	0.2398	0.2433	0.2372	Ave		0.2375				1.7		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0598 0.0602	0.0602 0.0600	0.0602	0.0601	0.0618	Ave		0.0603				1.1		20.0			
Toluene-d8 (Surr)	1.3120 1.3078	1.3128 1.2780	1.3089	1.3025	1.3011	Ave		1.3033				0.9		20.0			
4-Bromofluorobenzene (Surr)	0.5139 0.5011	0.5258 0.5040	0.5137	0.5083	0.5108	Ave		0.5111				1.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1 Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 16:50 Calibration End Date: 03/25/2024 20:33 Calibration ID: 59886

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-486676/12	YM25X11.D
Level 2	IC 410-486676/13	YM25X12.D
Level 3	IC 410-486676/14	YM25X21.D
Level 4	IC 410-486676/15	YM25X14.D
Level 5	ICIS 410-486676/16	YM25X15.D
Level 6	IC 410-486676/17	YM25X16.D
Level 7	IC 410-486676/18	YM25X17.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	6541 862784	29507 2503782	85355	145195	381148	1.00 100	4.00 300	10.0	20.0	50.0
Chloromethane	FB	Ave	7752 880203	31861 2611469	84315	170569	394200	1.00 100	4.00 300	10.0	20.0	50.0
Vinyl chloride	FB	Ave	6417 832179	29771 2463627	80381	157918	373270	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Butadiene	FB	Ave	7158 771025	29845 2230749	81612	145333	340236	1.00 100	4.00 300	10.0	20.0	50.0
Bromomethane	FB	Ave	4797 550736	19864 1606598	54895	106113	251928	1.00 100	4.00 300	10.0	20.0	50.0
Chloroethane	FB	Ave	3203 384106	13961 1144414	38108	74340	171407	1.00 100	4.00 300	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	11796 1101593	40296 3283126	109488	213115	497747	1.00 100	4.00 300	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	6411 874630	30046 2568556	84243	154394	383161	1.00 100	4.00 300	10.0	20.0	50.0
n-Pentane	FB	Ave	6391 662538	24677 2016001	57953	130946	310463	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl ether	FB	Ave	3069 347591	12581 1052945	32051	65707	175011	1.00 100	4.00 300	10.0	20.0	50.0
Freon 123a	FB	Ave	5046 509932	20682 1565114	50711	99328	235510	1.00 100	4.00 300	10.0	20.0	50.0
Acrolein	TBAd10	Ave	16037 1720466	57352 4998187	148436	337249	809575	10.00 1000	40.0 3000	100.0	200	500
1,1-Dichloroethene	FB	Ave	2811 362735	13667 1113077	32202	71211	174769	1.00 100	4.00 300	10.0	20.0	50.0
Acetone	TBAd10	Ave	1558 182790	5604 549248	16193	37491	88100	2.00 200	8.00 600	20.0	40.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1 Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 16:50 Calibration End Date: 03/25/2024 20:33 Calibration ID: 59886

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
Freon 113	FB	Ave	3518 474655	17354 1418362	41109	93277	220569	1.00 100	4.00 300	10.0	20.0	50.0
2-Propanol	TBAd10	Ave	3661 368175	12433 947628	34123	96862	242805	5.00 500	20.0 1500	50.0	100	250
Methyl iodide	FB	Ave	6407 765467	28665 2331285	66987	151088	368044	1.00 100	4.00 300	10.0	20.0	50.0
Carbon disulfide	FB	Ave	12191 1399358	50130 4321827	119573	268759	649929	1.00 100	4.00 300	10.0	20.0	50.0
Methyl acetate	FB	Ave	4796 533374	18511 1538740	44711	108241	293946	1.00 100	4.00 300	10.0	20.0	50.0
Allyl chloride	FB	Ave	7219 586532	24387 1769142	51119	112735	288110	1.00 100	4.00 300	10.0	20.0	50.0
Methylene Chloride	FB	Ave	3842 435085	15891 1322464	37257	85521	212598	1.00 100	4.00 300	10.0	20.0	50.0
t-Butyl alcohol	TBAd10	Ave	9330 794109	25326 2067188	67401	184074	477646	5.00 500	20.0 1500	50.0	100	250
Acrylonitrile	FB	Ave	6564 741234	23949 2097462	60048	153396	393252	2.50 250	10.0 750	25.0	50.0	125
Methyl tert-butyl ether	FB	Ave	15801 1610177	57714 4559938	139685	327066	830689	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	2970 387251	14571 1134168	34293	76972	189436	1.00 100	4.00 300	10.0	20.0	50.0
n-Hexane	FB	Ave	4892 547702	19917 1611084	50103	110250	257557	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloroethane	FB	Ave	5920 684192	25692 2033428	59669	137834	348053	1.00 100	4.00 300	10.0	20.0	50.0
Isopropyl ether	FB	Ave	12942 1391542	48904 4055280	115409	274980	701696	1.00 100	4.00 300	10.0	20.0	50.0
2-Chloro-1,3-butadiene	FB	Ave	4977 609342	22542 1775756	53082	123026	302688	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl t-butyl ether	FB	Ave	14226 1491267	51036 4313124	122343	294814	763290	1.00 100	4.00 300	10.0	20.0	50.0
2-Butanone (MEK)	FB	Ave	12148 880646	32702 2607326	74335	189317	430824	2.00 200	8.00 600	20.0	40.0	100
cis-1,2-Dichloroethene	FB	Ave	4011 449668	16429 1313272	38584	89961	227100	1.00 100	4.00 300	10.0	20.0	50.0
2,2-Dichloropropane	FB	Ave	6073 740332	27441 2237861	62275	144677	356879	1.00 100	4.00 300	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 Environment Testing, LLC Job No.: 410-177862-1 Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 16:50 Calibration End Date: 03/25/2024 20:33 Calibration ID: 59886

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
Propionitrile	TBAd10	Ave	6513 741822	21986 2130507	57589	154914	421146	5.00 500	20.0 1500	50.0	100	250
Methyl acrylate	FB	Ave	5948 657117	21432 2059283	59258	117766	343308	1.00 100	4.00 300	10.0	20.0	50.0
Methacrylonitrile	FB	Ave	6746 768251	24671 2155197	60542	156784	414060	2.50 250	10.0 750	25.0	50.0	125
Bromochloromethane	FB	Ave	1937 234049	8083 669563	19515	47564	118747	1.00 100	4.00 300	10.0	20.0	50.0
Tetrahydrofuran	TBAd10	Ave	6536 639419	21356 1793161	50390	134649	346310	5.00 500	20.0 1500	50.0	100	250
Chloroform	FB	Lin1	31303 742420	51895 2091409	73541	171665	389727	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	5878 714513	26163 2164000	60228	141431	347220	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexane	FB	Ave	6347 788674	29347 2431484	67943	153468	369100	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	4171 550682	20399 1612046	46436	109166	265446	1.00 100	4.00 300	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	4509 589319	20668 1810017	46939	112818	281303	1.00 100	4.00 300	10.0	20.0	50.0
Isobutyl alcohol	TBAd10	Ave	+++++ 662445	21818 1785017	48694	143181	394118	+++++ 1250	50.0 3750	125	250	625
Benzene	FB	Ave	15054 1696460	62209 4994480	143616	331243	840837	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	5435 615152	21542 1747751	51778	122365	313895	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl methyl ether	FB	Ave	14334 1524424	50365 4403807	121836	298682	794360	1.00 100	4.00 300	10.0	20.0	50.0
n-Heptane	FB	Ave	6462 599162	22496 1834078	55479	115196	279512	1.00 100	4.00 300	10.0	20.0	50.0
n-Butanol	TBAd10	Ave	5035 512728	13209 1424241	34213	106791	293150	12.5 1250	50.0 3750	125	250	625
Trichloroethene	FB	Ave	3648 445011	15788 1337457	35771	86662	218269	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl acrylate	FB	Ave	6335 753518	24208 2491166	67312	136305	369476	1.000 100.0	4.00 300	10.00	20.0	50.0
Methylcyclohexane	FB	Ave	6039	28700	68555	160362	386108	1.00	4.00	10.0	20.0	50.0

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1 Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 16:50 Calibration End Date: 03/25/2024 20:33 Calibration ID: 59886

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
			820000	2584427				100	300			
1,2-Dichloropropane	FB	Ave	3887 456704	15320 1381361	36088	88132	230463	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl ethyl ether	FB	Ave	6792 734918	24548 2263368	57859	145164	376955	1.00 100	4.00 300	10.0	20.0	50.0
Methyl methacrylate	FB	Ave	4108 496057	15087 1437627	36331	98951	265148	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dioxane	TBAd10	Ave	+++++ 165362	+++++ 453011	11582	36356	93834	+++++ 1250	+++++ 3750	125	250	625
Dibromomethane	FB	Ave	2586 328300	10485 963611	26432	64586	168522	1.00 100	4.00 300	10.0	20.0	50.0
Bromodichloromethane	FB	Ave	4828 581530	18555 1738854	44633	108991	293578	1.00 100	4.00 300	10.0	20.0	50.0
2-Nitropropane	TBAd10	Ave	13155 1240101	39212 3471405	93664	254772	688931	5.00 500	20.0 1500	50.0	100	250
2-Chloroethyl vinyl ether	FB	Ave	+++++ 344436	11800 1054000	24259	68797	182170	+++++ 100	4.00 300	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	5935 739808	22727 2275508	55415	137374	372756	1.00 100	4.00 300	10.0	20.0	50.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	17026 1833685	64011 5237375	152949	418515	936801	2.00 200	8.00 600	20.0	40.0	100
Toluene	CBZd5	Ave	9812 1121258	38431 3377124	90610	217322	559462	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBZd5	Ave	5598 697349	20723 2110757	50233	131345	361531	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl methacrylate	CBZd5	Ave	7602 852723	27085 2412137	65407	172280	467932	1.00 100	4.00 300	10.0	20.0	50.0
1,1,2-Trichloroethane	CBZd5	Ave	4354 450273	14362 1317366	35736	90188	241194	1.00 100	4.00 300	10.0	20.0	50.0
Tetrachloroethene	CBZd5	Ave	3820 471702	17501 1459663	39443	94930	236489	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichloropropane	CBZd5	Ave	6588 728945	23739 2182543	56881	143833	381557	1.00 100	4.00 300	10.0	20.0	50.0
2-Hexanone	CBZd5	Ave	13817 1284247	48539 3709518	106223	307262	660986	2.00 200	8.00 600	20.0	40.0	100
Dibromochloromethane	CBZd5	Ave	3860 504488	14040 1518578	35065	93779	260643	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromoethane (EDB)	CBZd5	Ave	4040 492811	14639 1459381	37580	97967	262763	1.00 100	4.00 300	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 Environment Testing, LLC Job No.: 410-177862-1 Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 16:50 Calibration End Date: 03/25/2024 20:33 Calibration ID: 59886

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1-Chlorohexane	CBZd5	Ave	6288 582274	21644 1774777	49749	119956	293252	1.00 100	4.00 300	10.0	20.0	50.0
Chlorobenzene	CBZd5	Ave	11637 1275223	43147 3832792	102386	252101	658298	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBZd5	Ave	4070 529292	16239 1555648	39326	103207	278704	1.00 100	4.00 300	10.0	20.0	50.0
Ethylbenzene	CBZd5	Ave	20750 2265443	79484 6767855	188519	456113	1173783	1.00 100	4.00 300	10.0	20.0	50.0
m&p-Xylene	CBZd5	Ave	16148 1787973	61428 5358270	148803	361936	923347	2.00 200	8.00 600	20.0	40.0	100
n-Butyl acrylate	CBZd5	Ave	8776 1049098	37009 3430124	102956	202189	537368	1.00 100	4.00 300	10.0	20.0	50.0
o-Xylene	CBZd5	Ave	8109 970262	32228 2857952	78436	196626	504494	1.00 100	4.00 300	10.0	20.0	50.0
Styrene	CBZd5	Ave	13238 1529439	51445 4499058	122095	313121	811379	1.00 100	4.00 300	10.0	20.0	50.0
Bromoform	CBZd5	Ave	3500 425719	11259 1261668	28049	79335	227066	1.00 100	4.00 300	10.0	20.0	50.0
Isopropylbenzene	CBZd5	Ave	20516 2380757	79043 6985322	195575	489194	1240666	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexanone	TBAd10	Lin1	8420 873243	120441 2863932	144138	331926	420783	50.0 1250	200 3750	250	500	625
1,1,2,2-Tetrachloroethane	DCBd4	Ave	8862 925406	29633 2591513	71987	195899	512261	1.00 100	4.00 300	10.0	20.0	50.0
Bromobenzene	DCBd4	Ave	5515 615848	20762 1802955	50248	126987	326298	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd4	Ave	5159 668550	18176 1898245	49262	134317	369897	2.50 250	10.0 750	25.0	50.0	125
1,2,3-Trichloropropane	DCBd4	Ave	2786 280372	9100 785308	23003	59757	156592	1.00 100	4.00 300	10.0	20.0	50.0
N-Propylbenzene	DCBd4	Ave	25914 2826935	98843 8230632	239455	586355	1467316	1.00 100	4.00 300	10.0	20.0	50.0
2-Chlorotoluene	DCBd4	Ave	5656 607927	21055 1833390	49723	124799	319534	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCBd4	Ave	18704 2268605	74711 6834012	181309	462873	1174928	1.00 100	4.00 300	10.0	20.0	50.0
4-Chlorotoluene	DCBd4	Ave	5010 583936	20196 1769490	48901	123081	311913	1.00 100	4.00 300	10.0	20.0	50.0
tert-Butylbenzene	DCBd4	Ave	3348	13374	32631	84401	225520	1.00	4.00	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 Environment Testing, LLC | Job No.: 410-177862-1 | Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 | GC Column: R-624SilMS ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 16:50 | Calibration End Date: 03/25/2024 20:33 | Calibration ID: 59886

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
			439038	1367250				100	300			
1,2,4-Trimethylbenzene	DCBd4	Ave	20731 2333990	77761 6908525	188664	480214	1222668	1.00 100	4.00 300	10.0	20.0	50.0
sec-Butylbenzene	DCBd4	Ave	23691 2885172	94074 8486856	227431	589744	1488256	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd4	Ave	12025 1204247	41597 3513559	101783	256284	646420	1.00 100	4.00 300	10.0	20.0	50.0
p-Isopropyltoluene	DCBd4	Ave	21852 2571927	83474 7573984	202586	521827	1335991	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dichlorobenzene	DCBd4	Ave	12604 1224297	44208 3588298	104684	263368	665776	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trimethylbenzene	DCBd4	Ave	22051 2558885	83093 7480874	198364	516455	1340956	1.00 100	4.00 300	10.0	20.0	50.0
Benzyl chloride	DCBd4	Ave	16757 1946122	57165 5556896	145774	398661	1068814	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Diethylbenzene	DCBd4	Ave	12837 1509566	50439 4555363	122426	310752	793475	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Diethylbenzene	DCBd4	Ave	13906 1556857	52466 4664619	131501	327951	825649	1.00 100	4.00 300	10.0	20.0	50.0
n-Butylbenzene	DCBd4	Ave	11168 1247694	43190 3800396	105928	258005	650560	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichlorobenzene	DCBd4	Ave	12928 1308219	45419 3769327	109512	275815	710443	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Diethylbenzene	DCBd4	Ave	11366 1287671	40231 3927688	102684	258869	672358	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	2757 306492	8855 871295	22914	63483	173129	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trichlorobenzene	DCBd4	Ave	9828 1071312	35331 3167517	91429	221868	574584	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd4	Ave	10337 1114540	36680 3116823	93364	231766	597150	1.00 100	4.00 300	10.0	20.0	50.0
2-Ethylhexyl acrylate	DCBd4	Ave	7577 1044622	30969 3229924	94413	185199	519725	1.000 100.0	4.00 300	10.00	20.0	50.0
Hexachlorobutadiene	DCBd4	Ave	3300 414145	12548 1256933	35175	81746	213897	1.00 100	4.00 300	10.0	20.0	50.0
Naphthalene	DCBd4	Ave	41284 4205472	138815 10563338	351535	909659	2348158	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd4	Ave	10665 1142089	37690 3077660	96228	240414	618325	1.00 100	4.00 300	10.0	20.0	50.0
2-Methylnaphthalene	DCBd4	Ave	21469	71003	202916	511150	1380718	1.00	4.00	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 Environment Testing, LLC Job No.: 410-177862-1 Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 16:50 Calibration End Date: 03/25/2024 20:33 Calibration ID: 59886

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
			2522506	6228073				100	300			
Dibromofluoromethane (Surr)	FB	Ave	194013 198761	193591 198281	195451	199257	198615	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	48737 50753	48918 51677	49053	49220	51731	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBZd5	Ave	792749 840555	793488 880865	796478	808694	827594	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	CBZd5	Ave	310529 322090	317786 347390	312615	315577	324900	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC | Job No.: 410-177862-1 | Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 | GC Column: R-624SilMS 3 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 16:50 | Calibration End Date: 03/25/2024 20:33 | Calibration ID: 59886

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-486676/12	YM25X11.D
Level 2	IC 410-486676/13	YM25X12.D
Level 3	IC 410-486676/14	YM25X21.D
Level 4	IC 410-486676/15	YM25X14.D
Level 5	ICIS 410-486676/16	YM25X15.D
Level 6	IC 410-486676/17	YM25X16.D
Level 7	IC 410-486676/18	YM25X17.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	-14.2 3.5	-2.9	12.0	-5.2	-2.6	9.4	50 30	30	30	30	30	30
Chloromethane	-4.9 0.9	-2.0	3.4	4.1	-5.9	4.4	50 30	30	30	30	30	30
Vinyl chloride	-15.0 2.8	-1.1	6.4	4.0	-3.8	6.5	50 30	30	30	30	30	30
1,3-Butadiene	-2.0 -3.8	2.5	11.7	-1.0	-9.3	2.0	50 30	30	30	30	30	30
Bromomethane	-6.3 -1.1	-2.7	7.2	3.1	-4.2	4.0	50 30	30	30	30	30	30
Chloroethane	-9.9 1.5	-1.4	7.2	4.1	-6.1	4.5	50 30	30	30	30	30	30
Dichlorofluoromethane	11.4 -2.3	-4.5	3.4	0.1	-8.5	0.5	50 30	30	30	30	30	30
Trichlorofluoromethane	-17.0 4.8	-2.4	9.1	-0.5	-3.4	9.5	50 30	30	30	30	30	30
n-Pentane	2.4 1.8	-0.8	-7.2	4.4	-3.2	2.6	50 30	30	30	30	30	30
Ethyl ether	-5.7 2.0	-3.0	-1.6	0.4	4.7	3.2	50 30	30	30	30	30	30
Freon 123a	1.8 -0.5	4.7	2.3	-0.3	-7.5	-0.5	50 30	30	30	30	30	30
Acrolein	2.0 -3.4	-5.7	-2.4	3.7	1.0	5.0	50 30	30	30	30	30	30
1,1-Dichloroethene	-16.0 4.9	2.5	-3.8	5.9	1.7	4.8	50 30	30	30	30	30	30
Acetone	-6.4 0.3	-12.9	0.7	9.0	3.9	5.4	50 30	30	30	30	30	30
Freon 113	-17.8 4.4	1.7	-4.0	8.4	0.3	7.1	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1 Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 16:50 Calibration End Date: 03/25/2024 20:33 Calibration ID: 59886

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
2-Propanol	-2.4 -23.2	-14.3	-5.9	24.8	26.9	-5.8	50 30	30	30	30	30	30
Methyl iodide	-9.8 3.4	1.2	-5.7	5.8	0.9	4.2	50 30	30	30	30	30	30
Carbon disulfide	-5.1 6.1	-2.1	-6.9	4.1	-1.5	5.3	50 30	30	30	30	30	30
Methyl acetate	-4.1 -3.1	-7.2	-10.7	7.6	14.4	3.0	50 30	30	30	30	30	30
Allyl chloride	23.5 -4.6	4.7	-12.6	-4.0	-4.0	-3.0	50 30	30	30	30	30	30
Methylene Chloride	-5.0 3.0	-1.5	-7.9	5.2	2.3	4.0	50 30	30	30	30	30	30
t-Butyl alcohol	18.7 -20.1	-16.7	-11.3	13.2	19.2	-3.0	50 30	30	30	30	30	30
Acrylonitrile	-3.6 -2.9	-11.7	-11.8	12.1	12.5	5.3	50 30	30	30	30	30	30
Methyl tert-butyl ether	3.7 -5.6	-4.9	-8.3	6.8	6.2	2.2	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-16.5 0.5	2.8	-3.6	7.7	3.7	5.3	50 30	30	30	30	30	30
n-Hexane	-4.3 -0.6	-2.2	-2.0	7.3	-1.9	3.6	50 30	30	30	30	30	30
1,1-Dichloroethane	-7.9 -0.3	0.3	-7.2	6.7	5.4	2.9	50 30	30	30	30	30	30
Isopropyl ether	0.3 -0.9	-4.9	-10.6	6.0	5.9	4.2	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-11.7 -0.7	0.4	-5.8	8.6	4.6	4.5	50 30	30	30	30	30	30
Ethyl t-butyl ether	2.9 -1.7	-7.4	-11.5	6.1	7.5	4.2	50 30	30	30	30	30	30
2-Butanone (MEK)	36.4 -7.7	-7.8	-16.5	5.8	-5.8	-4.4	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-4.4 -1.4	-1.8	-8.1	6.7	5.4	3.6	50 30	30	30	30	30	30
2,2-Dichloropropane	-10.6 3.9	1.4	-8.3	6.0	2.3	5.4	50 30	30	30	30	30	30
Propionitrile	-4.0 -4.6	-16.2	-12.2	10.4	21.7	4.9	50 30	30	30	30	30	30
Methyl acrylate	-2.3 6.6	-11.7	-2.7	-3.8	9.7	4.3	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1 Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 16:50 Calibration End Date: 03/25/2024 20:33 Calibration ID: 59886

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
Methacrylonitrile	-3.8 -3.1	-11.7	-13.6	11.3	15.0	5.9	50 30	30	30	30	30	30
Bromochloromethane	-9.4 -1.3	-5.2	-8.7	10.7	8.1	5.8	50 30	30	30	30	30	30
Tetrahydrofuran	8.5 -9.5	-8.3	-13.5	8.1	12.8	1.9	50 30	30	30	30	30	30
Chloroform	4.1 -2.3	4.0	-26.2	9.9	6.6	4.0	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-10.5 3.8	-0.1	-8.3	7.1	2.9	5.1	50 30	30	30	30	30	30
Cyclohexane	-12.2 6.0	1.8	-6.0	5.6	-0.6	5.4	50 30	30	30	30	30	30
1,1-Dichloropropene	-16.4 1.8	2.6	-7.0	8.8	3.6	6.7	50 30	30	30	30	30	30
Carbon tetrachloride	-14.4 8.3	-1.6	-10.9	6.5	4.0	8.1	50 30	30	30	30	30	30
Isobutyl alcohol	+++++ -12.3	-8.8	-18.6	11.9	25.0	2.8	30	50	30	30	30	30
Benzene	-4.2 0.2	-0.7	-8.6	4.9	4.2	4.3	50 30	30	30	30	30	30
1,2-Dichloroethane	-4.1 -2.8	-4.6	-8.7	7.4	7.8	4.9	50 30	30	30	30	30	30
t-Amyl methyl ether	2.3 -1.0	-9.8	-13.1	6.0	10.4	5.2	50 30	30	30	30	30	30
n-Heptane	12.0 0.2	-2.2	-3.9	-0.7	-5.7	0.4	50 30	30	30	30	30	30
n-Butanol	9.6 -5.8	-25.7	-23.0	12.4	25.2	7.1	50 30	30	30	30	30	30
Trichloroethene	-9.7 4.4	-1.9	-11.4	6.8	5.2	6.5	50 30	30	30	30	30	30
Ethyl acrylate	-8.1 13.9	-11.9	-2.4	-1.6	4.4	5.7	50 30	30	30	30	30	30
Methylcyclohexane	-18.2 10.4	-2.4	-7.1	8.1	1.9	7.4	50 30	30	30	30	30	30
1,2-Dichloropropane	-6.1 5.2	-7.2	-12.8	5.9	8.4	6.6	50 30	30	30	30	30	30
t-Amyl ethyl ether	0.0 5.1	-9.3	-14.8	6.4	8.1	4.6	50 30	30	30	30	30	30
Methyl methacrylate	-7.1 2.5	-14.4	-17.8	11.4	16.8	8.5	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1 Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 16:50 Calibration End Date: 03/25/2024 20:33 Calibration ID: 59886

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
1,4-Dioxane	+++++ -11.3	+++++	-22.8	13.3	18.6	2.3	30		50	30	30	30
Dibromomethane	-12.0 3.4	-10.5	-10.0	9.4	11.7	8.0	50 30	30	30	30	30	30
Bromodichloromethane	-6.6 6.0	-9.9	-13.7	4.9	10.6	8.7	50 30	30	30	30	30	30
2-Nitropropane	13.3 -9.1	-12.7	-16.6	6.1	16.4	2.5	50 30	30	30	30	30	30
2-Chloroethyl vinyl ether	+++++ 4.9	-6.5	-23.4	8.0	12.0	5.1	30	50	30	30	30	30
cis-1,3-Dichloropropene	-8.9 10.1	-12.5	-14.9	4.9	11.4	9.8	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	-2.0 -5.0	-7.6	-12.0	19.8	4.9	2.0	50 30	30	30	30	30	30
Toluene	-1.9 -1.4	-4.0	-10.1	5.7	6.2	5.4	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-6.1 3.4	-13.2	-16.4	7.2	15.2	9.9	50 30	30	30	30	30	30
Ethyl methacrylate	0.0 -7.3	-10.9	-14.5	10.3	17.0	5.5	50 30	30	30	30	30	30
1,1,2-Trichloroethane	6.8 -5.6	-12.0	-13.0	7.6	12.4	3.8	50 30	30	30	30	30	30
Tetrachloroethene	-10.6 -0.2	2.3	-8.4	8.1	5.1	3.7	50 30	30	30	30	30	30
1,3-Dichloropropane	1.0 -2.2	-9.0	-13.4	7.3	11.2	5.1	50 30	30	30	30	30	30
2-Hexanone	11.3 -12.7	-2.3	-15.1	20.4	1.1	-2.8	50 30	30	30	30	30	30
Dibromochloromethane	-8.5 5.1	-16.9	-17.5	8.1	17.3	12.4	50 30	30	30	30	30	30
1,2-Dibromoethane (EDB)	-6.0 -0.8	-14.9	-13.2	10.9	16.1	7.8	50 30	30	30	30	30	30
1-Chlorohexane	13.7 -6.2	-2.2	-10.7	5.6	0.8	-1.0	50 30	30	30	30	30	30
Chlorobenzene	1.1 -2.7	-6.3	-11.6	6.6	8.7	4.2	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-10.6 -0.2	-10.9	-14.2	10.3	16.3	9.3	50 30	30	30	30	30	30
Ethylbenzene	0.2 -4.5	-4.0	-9.6	7.2	7.7	2.9	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1 Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 16:50 Calibration End Date: 03/25/2024 20:33 Calibration ID: 59886

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
m&p-Xylene	-0.8 -3.8	-5.6	-9.2	8.2	7.8	3.3	50 30	30	30	30	30	30
n-Butyl acrylate	-9.9 2.9	-5.0	5.0	1.0	4.8	1.3	50 30	30	30	30	30	30
o-Xylene	-6.3 -3.5	-6.9	-10.0	10.6	10.8	5.4	50 30	30	30	30	30	30
Styrene	-3.9 -4.5	-6.6	-12.0	10.6	11.9	4.4	50 30	30	30	30	30	30
Bromoform	-1.9 3.4	-21.1	-21.9	8.3	21.0	12.2	50 30	30	30	30	30	30
Isopropylbenzene	-4.2 -4.7	-7.7	-9.3	11.2	10.1	4.5	50 30	30	30	30	30	30
Cyclohexanone	-4.1 0.4	6.9	-0.5	-1.2	0.0	-1.4	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	1.8 -7.0	-15.3	-15.8	12.8	16.9	6.6	50 30	30	30	30	30	30
Bromobenzene	-4.6 -2.5	-10.6	-11.4	10.1	12.2	6.8	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-12.8 0.3	-23.6	-15.2	13.8	24.2	13.3	50 30	30	30	30	30	30
1,2,3-Trichloropropane	3.9 -8.5	-15.6	-12.6	11.7	16.1	4.8	50 30	30	30	30	30	30
N-Propylbenzene	-3.2 -4.0	-8.2	-8.9	9.7	8.8	5.8	50 30	30	30	30	30	30
2-Chlorotoluene	-2.0 -0.7	-9.2	-12.2	8.4	10.0	5.6	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-10.6 2.1	-11.1	-11.7	10.9	11.6	8.7	50 30	30	30	30	30	30
4-Chlorotoluene	-9.5 -0.2	-9.3	-10.0	11.4	11.9	5.7	50 30	30	30	30	30	30
tert-Butylbenzene	-14.4 9.2	-15.0	-15.0	8.1	14.5	12.5	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-4.9 -1.0	-11.3	-11.9	10.4	11.4	7.3	50 30	30	30	30	30	30
sec-Butylbenzene	-10.3 0.4	-11.4	-12.2	11.9	12.0	9.5	50 30	30	30	30	30	30
1,3-Dichlorobenzene	3.3 -5.7	-11.1	-10.9	10.3	10.3	3.7	50 30	30	30	30	30	30
p-Isopropyltoluene	-7.5 0.2	-12.1	-12.6	10.7	12.3	9.1	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1 Analy Batch No.: 486676

SDG No.:

Instrument ID: 9355 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/25/2024 16:50 Calibration End Date: 03/25/2024 20:33 Calibration ID: 59886

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
1,4-Dichlorobenzene	4.8 -6.8	-8.6	-11.3	9.8	10.0	2.1	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-6.2 -0.5	-12.0	-14.0	10.1	13.4	9.2	50 30	30	30	30	30	30
Benzyl chloride	-5.3 -1.9	-19.7	-16.1	12.9	20.0	10.2	50 30	30	30	30	30	30
1,3-Diethylbenzene	-8.8 1.1	-10.9	-11.4	10.6	12.0	7.5	50 30	30	30	30	30	30
1,4-Diethylbenzene	-5.8 -1.3	-11.6	-9.3	11.3	11.1	5.7	50 30	30	30	30	30	30
n-Butylbenzene	-5.7 0.2	-9.3	-8.9	9.1	9.1	5.6	50 30	30	30	30	30	30
1,2-Dichlorobenzene	2.6 -6.5	-10.3	-11.5	9.7	12.0	4.1	50 30	30	30	30	30	30
1,2-Diethylbenzene	-4.5 3.1	-16.0	-12.1	9.0	12.2	8.4	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-2.1 -3.3	-21.8	-17.1	13.0	22.2	9.1	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-3.2 -2.6	-13.5	-8.3	9.5	12.4	5.7	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-1.4 -7.1	-12.9	-9.2	10.8	13.2	6.6	50 30	30	30	30	30	30
2-Ethylhexyl acrylate	-18.5 8.6	-17.1	3.5	-0.2	11.1	12.6	50 30	30	30	30	30	30
Hexachlorobutadiene	-12.6 4.0	-17.3	-5.1	8.5	12.6	9.9	50 30	30	30	30	30	30
Naphthalene	3.6 -17.2	-13.4	-10.2	14.4	17.0	5.8	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-0.8 -10.5	-12.8	-8.8	12.1	14.3	6.5	50 30	30	30	30	30	30
2-Methylnaphthalene	-4.6 -13.6	-21.6	-8.2	13.8	21.8	12.3	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	0.2 -3.1	0.4	1.0	2.4	-0.1	-0.7	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	-0.9 -0.6	-0.1	-0.2	-0.4	2.4	-0.2	50 30	30	30	30	30	30
Toluene-d8 (Surr)	0.7 -1.9	0.7	0.4	-0.1	-0.2	0.3	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	0.6 -1.4	2.9	0.5	-0.6	-0.1	-1.9	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X11.D
Lims ID: IC v1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 25-Mar-2024 16:50:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0109476-012
Misc. Info.: IC 1
Operator ID: knk41612 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub95

Method: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 25-Mar-2024 22:24:58 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1656

First Level Reviewer: K4WN Date: 25-Mar-2024 19:48:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.852	1.852	0.000	90	6541	1.00	0.8581	
4 Chloromethane	50	2.031	2.038	-0.007	94	7752	1.00	0.9507	
6 Vinyl chloride	62	2.145	2.138	0.007	90	6417	1.00	0.8498	
5 Butadiene	39	2.145	2.145	0.000	92	7158	1.00	0.9797	
8 Bromomethane	94	2.452	2.460	-0.008	94	4797	1.00	0.9369	
9 Chloroethane	64	2.524	2.531	-0.007	1	3203	1.00	0.9014	
10 Dichlorofluoromethane	67	2.753	2.753	0.000	95	11796	1.00	1.11	M
11 Trichlorofluoromethane	101	2.824	2.831	-0.007	59	6411	1.00	0.8301	
12 Pentane	43	2.839	2.846	-0.007	96	6391	1.00	1.02	
14 Ethyl ether	59	3.046	3.046	0.000	85	3069	1.00	0.9430	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.125	3.125	0.000	75	5046	1.00	1.02	
16 Acrolein	56	3.196	3.189	0.007	98	16037	10.0	10.2	
17 1,1-Dichloroethene	96	3.339	3.339	0.000	94	2811	1.00	0.8402	
18 Acetone	58	3.353	3.346	0.007	91	1558	2.00	1.87	a
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.375	3.382	-0.007	85	3518	1.00	0.8215	
20 Isopropyl alcohol	45	3.496	3.496	0.000	26	3661	5.00	4.88	
21 Iodomethane	142	3.525	3.525	0.000	98	6407	1.00	0.9019	
22 Carbon disulfide	76	3.639	3.639	0.000	99	12191	1.00	0.9492	M
24 Methyl acetate	43	3.761	3.747	0.014	44	4796	1.00	0.9585	
25 3-Chloro-1-propene	41	3.782	3.782	0.000	89	7219	1.00	1.24	M
* 26 t-Butyl alcohol-d10 (IS)	65	3.947	3.954	-0.007	82	378418	250.0	250.0	M
27 Methylene Chloride	84	3.961	3.954	0.007	83	3842	1.00	0.9496	
28 2-Methyl-2-propanol	59	4.090	4.068	0.022	91	9330	5.00	5.94	
29 Acrylonitrile	53	4.269	4.247	0.022	94	6564	2.50	2.41	
30 Methyl tert-butyl ether	73	4.347	4.347	0.000	96	15801	1.00	1.04	
31 trans-1,2-Dichloroethene	96	4.362	4.362	0.000	69	2970	1.00	0.8352	
33 Hexane	57	4.805	4.791	0.014	90	4892	1.00	0.9573	
34 1,1-Dichloroethane	63	5.019	5.019	0.000	87	5920	1.00	0.9211	
36 Isopropyl ether	45	5.091	5.077	0.014	87	12942	1.00	1.00	
37 2-Chloro-1,3-butadiene	53	5.148	5.134	0.014	93	4977	1.00	0.8833	

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	5.627	5.634	-0.007	97	14226	1.00	1.03	
40 2-Butanone (MEK)	43	5.856	5.820	0.036	52	12148	2.00	2.73	M
41 cis-1,2-Dichloroethene	96	5.870	5.856	0.014	77	4011	1.00	0.9558	
42 2,2-Dichloropropane	77	5.877	5.892	-0.015	67	6073	1.00	0.8942	
43 Propionitrile	54	5.928	5.892	0.036	91	6513	5.00	4.80	
45 Methyl acrylate	55	6.013	5.970	0.043	92	5948	1.00	0.9767	
46 Methacrylonitrile	67	6.128	6.121	0.007	88	6746	2.50	2.41	
S 47 1,2-Dichloroethene, Total	100				0			1.79	
48 Chlorobromomethane	128	6.206	6.199	0.007	93	1937	1.00	0.9059	
49 Tetrahydrofuran	71	6.235	6.221	0.014	89	6536	5.00	5.43	
51 Chloroform	83	6.357	6.349	0.008	93	31303	1.00	1.04	
$ 52 Dibromofluoromethane (Surr)	113	6.571	6.578	-0.007	93	194013	50.0	50.1	
53 1,1,1-Trichloroethane	97	6.592	6.592	0.000	36	5878	1.00	0.8947	
54 Cyclohexane	56	6.707	6.707	0.000	80	6347	1.00	0.8778	
55 1,1-Dichloropropene	75	6.814	6.814	0.000	91	4171	1.00	0.8357	
56 Carbon tetrachloride	117	6.828	6.814	0.014	92	4509	1.00	0.8558	
57 Isobutyl alcohol	41	6.950	6.943	0.007	89	9648	12.5	19.5	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.036	7.036	0.000	84	48737	50.0	49.6	
59 Benzene	78	7.072	7.072	0.000	91	15054	1.00	0.9578	
60 1,2-Dichloroethane	62	7.143	7.143	0.000	81	5435	1.00	0.9590	
62 Tert-amyl methyl ether	73	7.272	7.272	0.000	97	14334	1.00	1.02	
* 63 Fluorobenzene (IS)	96	7.486	7.486	0.000	99	815032	50.0	50.0	
64 n-Heptane	43	7.508	7.508	0.000	50	6462	1.00	1.12	
66 n-Butanol	56	7.865	7.837	0.028	76	5035	12.5	13.7	M
67 Trichloroethene	95	7.980	7.980	0.000	94	3648	1.00	0.9035	
68 Ethyl acrylate	55	8.115	8.087	0.028	94	6335	1.00	0.9190	
69 Methylcyclohexane	83	8.287	8.301	-0.014	89	6039	1.00	0.8182	
70 1,2-Dichloropropane	63	8.309	8.309	0.000	67	3887	1.00	0.9389	
71 2-ethoxy-2-methyl butane	87	8.330	8.323	0.007	93	6792	1.00	1.00	
72 Methyl methacrylate	69	8.401	8.387	0.014	85	4108	1.00	0.9295	
73 1,4-Dioxane	88	8.416	8.402	0.014	0	249	12.5	2.01	M
74 Dibromomethane	93	8.430	8.423	0.007	94	2586	1.00	0.8802	
76 Dichlorobromomethane	83	8.659	8.659	0.000	95	4828	1.00	0.9339	
77 2-Nitropropane	41	8.909	8.902	0.007	98	13155	5.00	5.67	
78 2-Chloroethyl vinyl ether	63	9.038	9.024	0.014	79	2436	1.00	0.7690	
79 cis-1,3-Dichloropropene	75	9.231	9.224	0.007	92	5935	1.00	0.9112	
80 4-Methyl-2-pentanone (MIBK)	43	9.388	9.388	0.000	97	17026	2.00	1.96	
$ 81 Toluene-d8 (Surr)	98	9.546	9.546	0.000	93	792749	50.0	50.3	
82 Toluene	92	9.624	9.624	0.000	98	9812	1.00	0.9808	
83 trans-1,3-Dichloropropene	75	9.889	9.889	0.000	91	5598	1.00	0.9386	
84 Ethyl methacrylate	69	9.960	9.953	0.007	86	7602	1.00	1.00	
S 125 1,3-Dichloropropene, Total	100				0			1.85	
126 1,1,2-Trichloroethane	97	10.103	10.096	0.007	86	4354	1.00	1.07	
127 Tetrachloroethene	166	10.196	10.196	0.000	95	3820	1.00	0.8937	
128 1,3-Dichloropropane	76	10.268	10.261	0.007	90	6588	1.00	1.01	
129 2-Hexanone	43	10.325	10.311	0.014	96	13817	2.00	2.23	M
132 Chlorodibromomethane	129	10.489	10.489	0.000	88	3860	1.00	0.9145	
133 Ethylene Dibromide	107	10.611	10.604	0.007	93	4040	1.00	0.9400	
* 134 Chlorobenzene-d5 (IS)	117	11.040	11.040	0.000	85	604218	50.0	50.0	
135 1-Chlorohexane	91	11.054	11.054	0.000	92	6288	1.00	1.14	
136 Chlorobenzene	112	11.069	11.069	0.000	95	11637	1.00	1.01	
137 1,1,1,2-Tetrachloroethane	131	11.154	11.154	0.000	87	4070	1.00	0.8939	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
138 Ethylbenzene	91	11.161	11.154	0.007	99	20750	1.00	1.00	
S 139 Xylenes, Total	106				0			2.92	
140 m-Xylene & p-Xylene	106	11.276	11.276	0.000	99	16148	2.00	1.98	
141 n-Butyl acrylate	55	11.569	11.555	0.014	96	8776	1.00	0.9014	
142 o-Xylene	106	11.605	11.605	0.000	97	8109	1.00	0.9371	
143 Styrene	104	11.626	11.626	0.000	95	13238	1.00	0.9613	
144 Bromoform	173	11.784	11.784	0.000	94	3500	1.00	0.9815	
145 Isopropylbenzene	105	11.912	11.912	0.000	95	20516	1.00	0.9583	
147 Cyclohexanone	55	11.984	11.977	0.007	90	8420	50.0	47.9	
$ 148 4-Bromofluorobenzene (Surr)	95	12.062	12.062	0.000	91	310529	50.0	50.3	
149 1,1,2,2-Tetrachloroethane	83	12.155	12.155	0.000	96	8862	1.00	1.02	
150 Bromobenzene	156	12.177	12.177	0.000	95	5515	1.00	0.9543	
151 trans-1,4-Dichloro-2-butene	53	12.184	12.177	0.007	88	5159	2.50	2.18	
152 1,2,3-Trichloropropane	110	12.205	12.198	0.007	82	2786	1.00	1.04	
153 N-Propylbenzene	91	12.248	12.248	0.000	98	25914	1.00	0.9675	
154 2-Chlorotoluene	126	12.320	12.320	0.000	97	5656	1.00	0.9804	
155 1,3,5-Trimethylbenzene	105	12.384	12.384	0.000	94	18704	1.00	0.8944	
156 4-Chlorotoluene	126	12.420	12.413	0.007	96	5010	1.00	0.9047	
158 tert-Butylbenzene	134	12.627	12.627	0.000	93	3348	1.00	0.8559	
160 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	97	20731	1.00	0.9507	
161 sec-Butylbenzene	105	12.792	12.792	0.000	94	23691	1.00	0.8973	
162 1,3-Dichlorobenzene	146	12.892	12.892	0.000	97	12025	1.00	1.03	
163 4-Isopropyltoluene	119	12.899	12.899	0.000	96	21852	1.00	0.9248	
* 164 1,4-Dichlorobenzene-d4	152	12.949	12.949	0.000	95	380321	50.0	50.0	
165 1,4-Dichlorobenzene	146	12.970	12.963	0.007	96	12604	1.00	1.05	
166 1,2,3-Trimethylbenzene	105	12.978	12.978	0.000	94	22051	1.00	0.9385	
167 Benzyl chloride	91	13.042	13.035	0.007	98	16757	1.00	0.9466	
168 1,3-Diethylbenzene	119	13.106	13.099	0.007	93	12837	1.00	0.9117	
169 p-Diethylbenzene	119	13.178	13.178	0.000	95	13906	1.00	0.9416	
170 n-Butylbenzene	92	13.199	13.192	0.007	97	11168	1.00	0.9426	
171 1,2-Dichlorobenzene	146	13.228	13.221	0.007	97	12928	1.00	1.03	
172 o-diethylbenzene	119	13.249	13.249	0.000	95	11366	1.00	0.9546	
175 1,2-Dibromo-3-Chloropropane	75	13.771	13.764	0.007	80	2757	1.00	0.9791	
176 1,3,5-Trichlorobenzene	180	13.907	13.900	0.007	95	9828	1.00	0.9676	
177 1,2,4-Trichlorobenzene	180	14.329	14.322	0.007	94	10337	1.00	0.9863	
178 2-Ethylhexyl acrylate	55	14.379	14.379	0.000	80	7577	1.00	0.8149	
179 Hexachlorobutadiene	225	14.408	14.408	0.000	95	3300	1.00	0.8740	
180 Naphthalene	128	14.508	14.501	0.007	97	41284	1.00	1.04	
181 1,2,3-Trichlorobenzene	180	14.644	14.644	0.000	94	10665	1.00	0.99	
182 2-Methylnaphthalene	142	15.266	15.259	0.007	92	21469	1.00	0.9536	
S 211 Total Diethylbenzene	1				0			2.81	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_4ppbEE_00576	Amount Added:	12.50	Units: mL	
MSV_HP20_ISSS_00129	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 25-Mar-2024 22:24:59 Chrom Revision: 2.3 20-Mar-2024 17:23:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X11.D

Injection Date: 25-Mar-2024 16:50:30 Instrument ID: 9355 Operator ID: knk41612

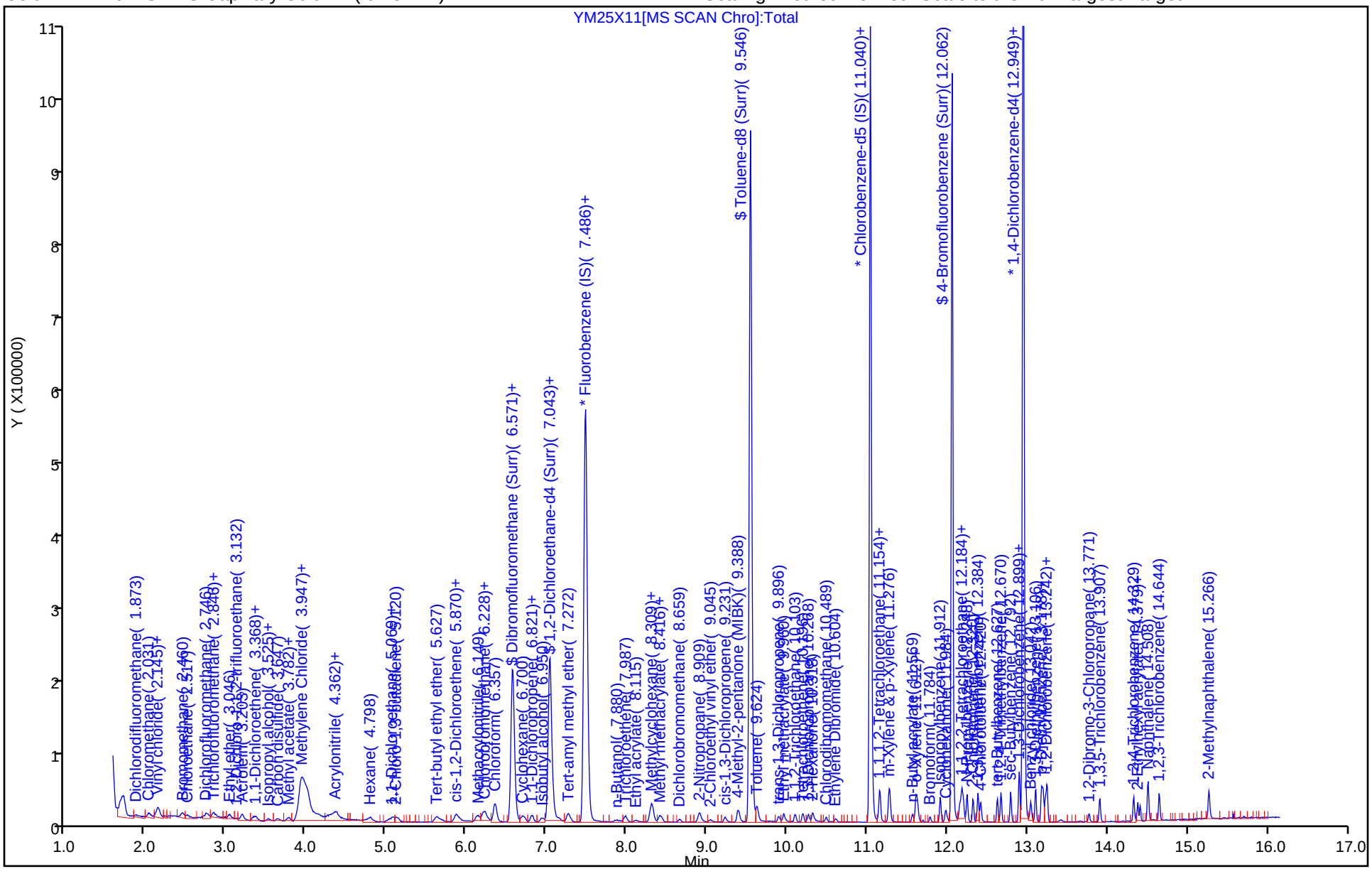
Lims ID: IC v1 Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 11

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

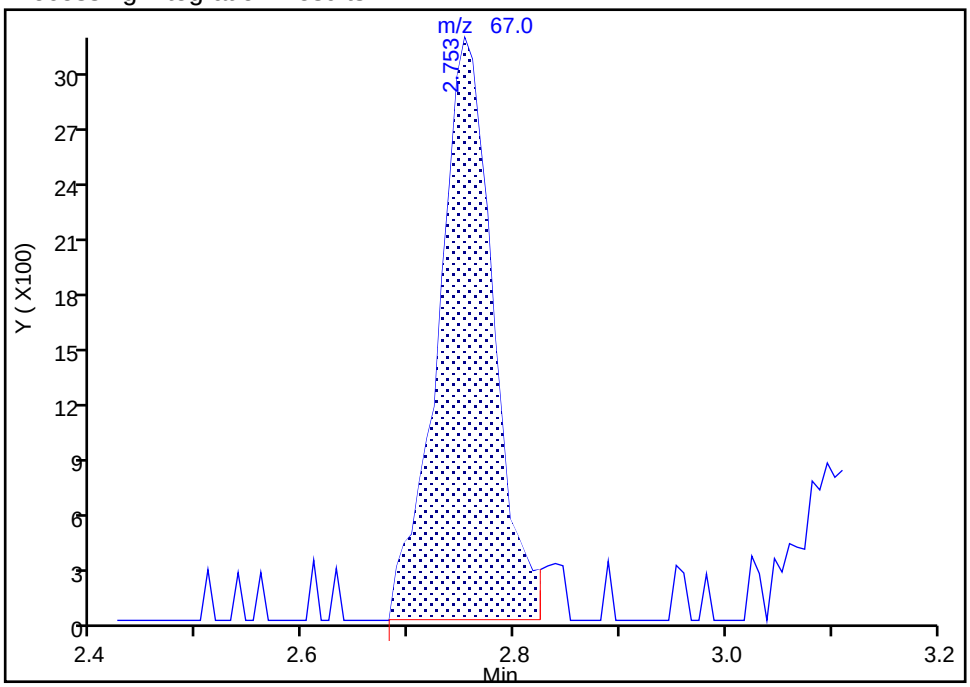
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X11.D				
Injection Date:	25-Mar-2024 16:50:30	Instrument ID:	9355		
Lims ID:	IC v1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

10 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

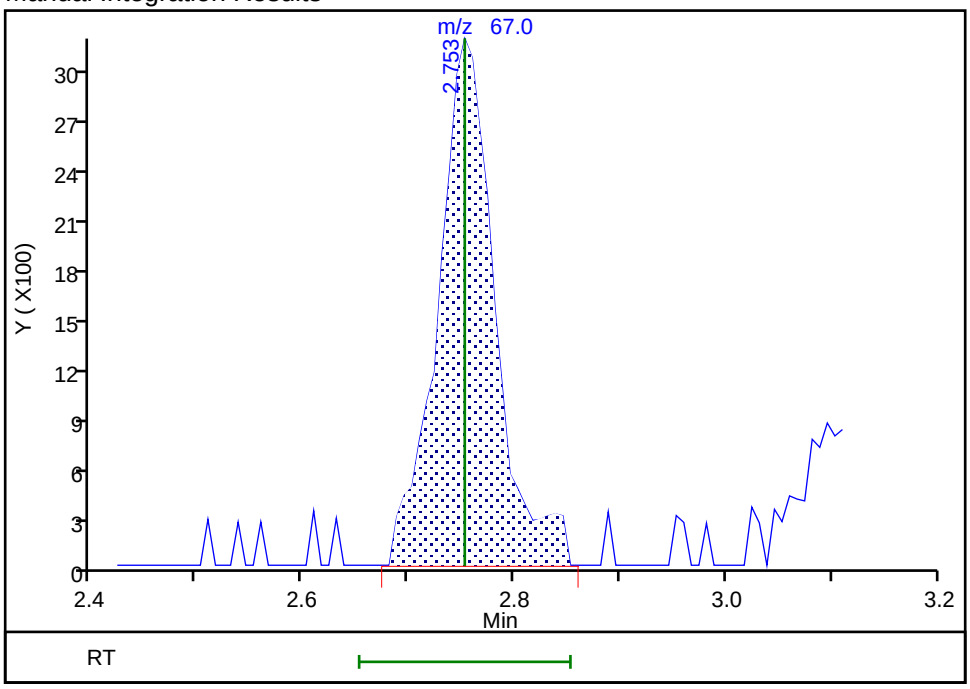
Processing Integration Results

RT: 2.75
Area: 11413
Amount: 1.091005
Amount Units: ug/l



Manual Integration Results

RT: 2.75
Area: 11796
Amount: 1.113653
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:46:43 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

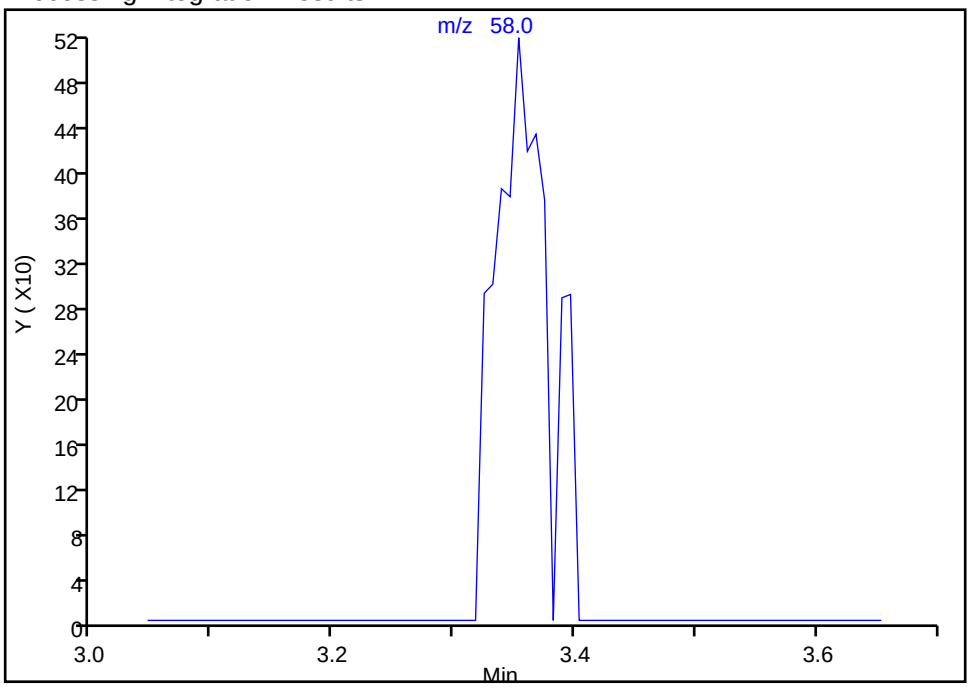
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X11.D				
Injection Date:	25-Mar-2024 16:50:30	Instrument ID:	9355		
Lims ID:	IC v1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

18 Acetone, CAS: 67-64-1

Signal: 1

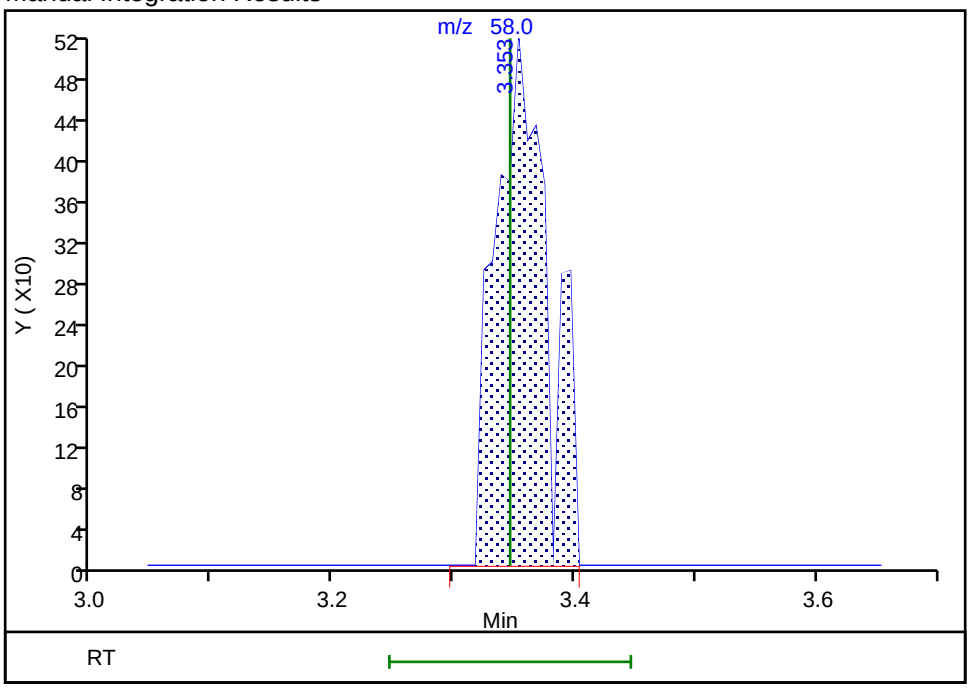
Not Detected
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.35
Area: 1558
Amount: 1.872971
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:46:51 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

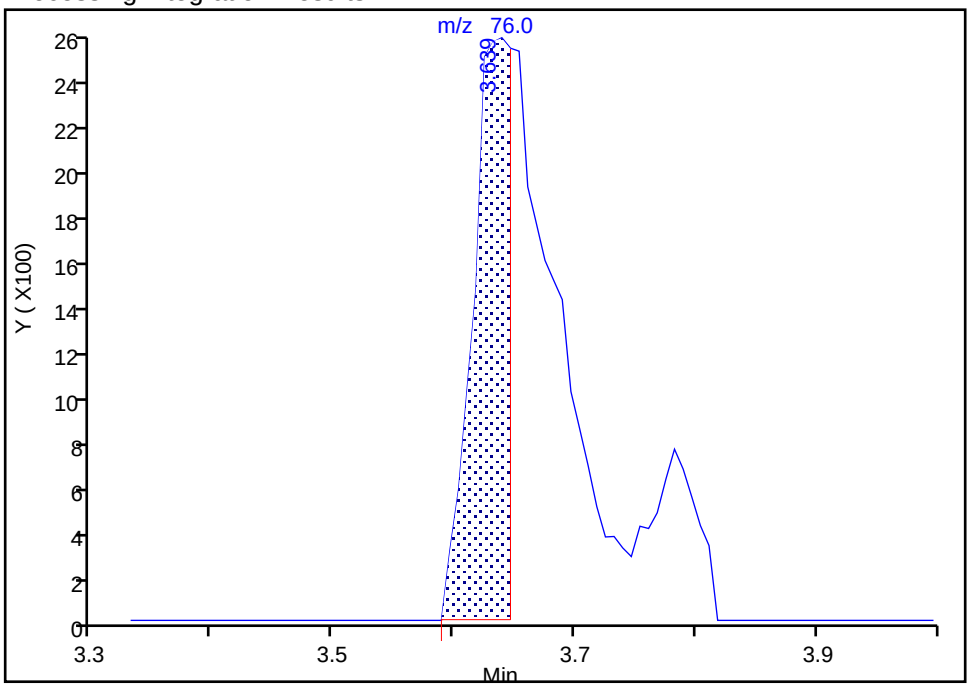
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X11.D				
Injection Date:	25-Mar-2024 16:50:30	Instrument ID:	9355		
Lims ID:	IC v1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

22 Carbon disulfide, CAS: 75-15-0

Signal: 1

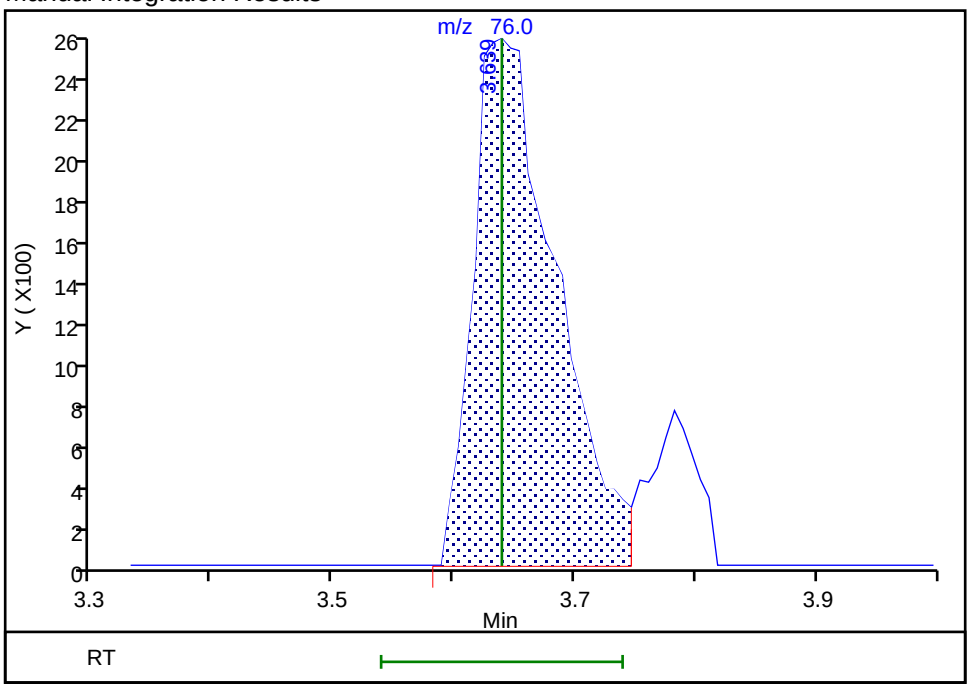
Processing Integration Results

RT: 3.64
Area: 5767
Amount: 1.414263
Amount Units: ug/l



Manual Integration Results

RT: 3.64
Area: 12191
Amount: 0.949246
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:47:03 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

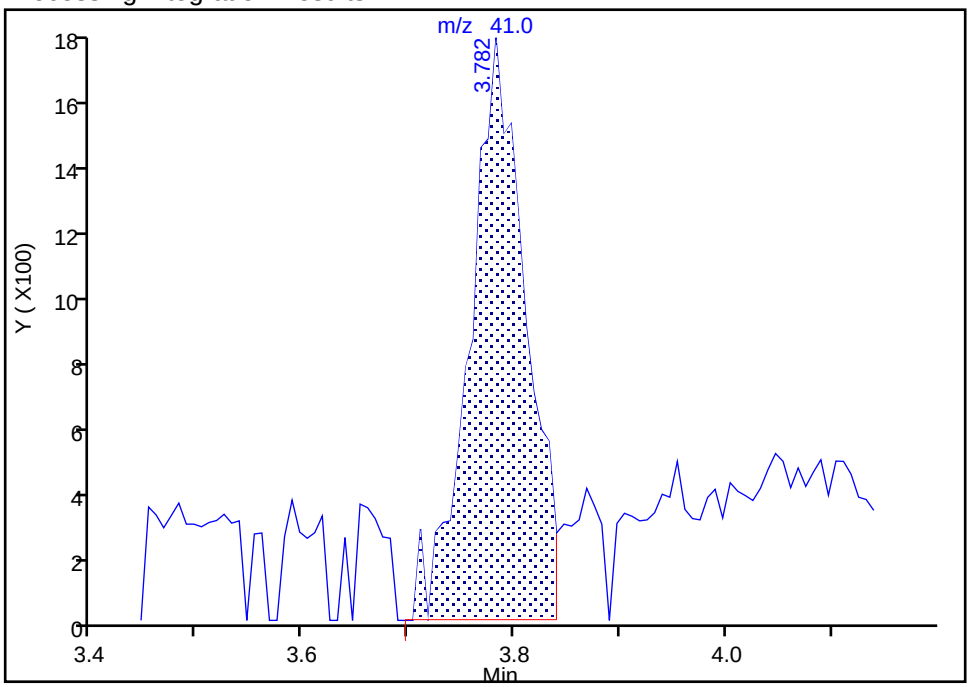
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X11.D				
Injection Date:	25-Mar-2024 16:50:30	Instrument ID:	9355		
Lims ID:	IC v1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

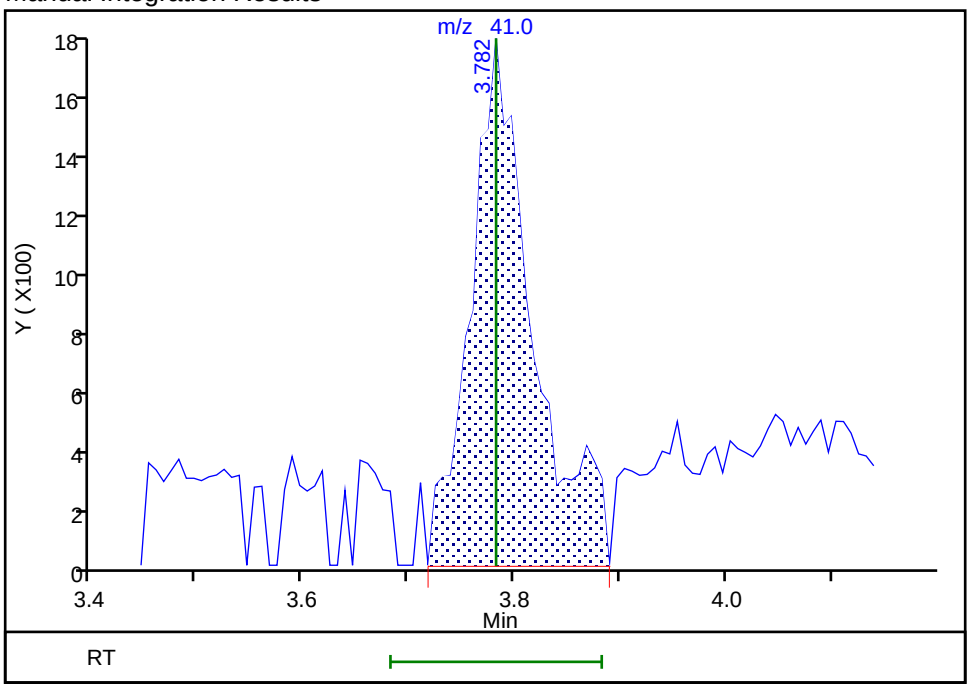
Processing Integration Results

RT: 3.78
Area: 6509
Amount: 1.115807
Amount Units: ug/l



Manual Integration Results

RT: 3.78
Area: 7219
Amount: 1.235116
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:47:10 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

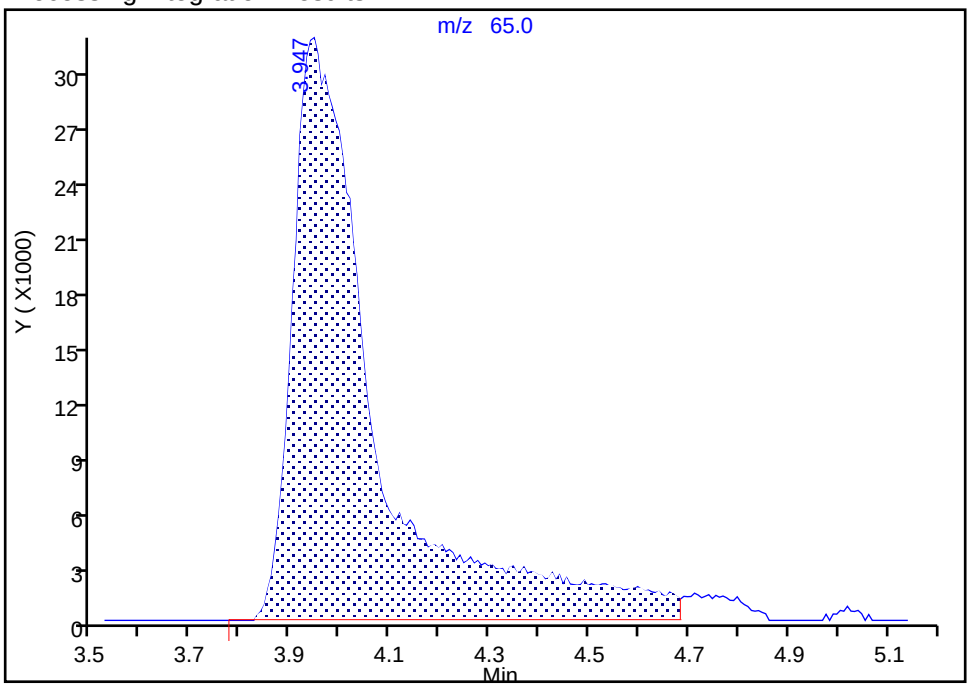
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X11.D				
Injection Date:	25-Mar-2024 16:50:30	Instrument ID:	9355		
Lims ID:	IC v1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

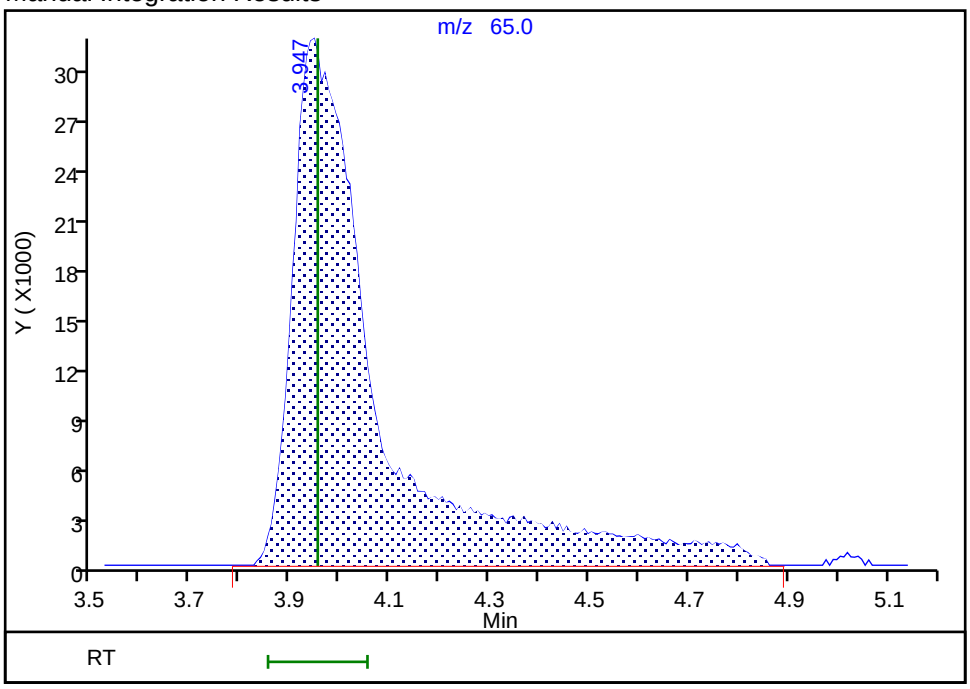
Processing Integration Results

RT: 3.95
Area: 367533
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 3.95
Area: 378418
Amount: 250.0000
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:47:17 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

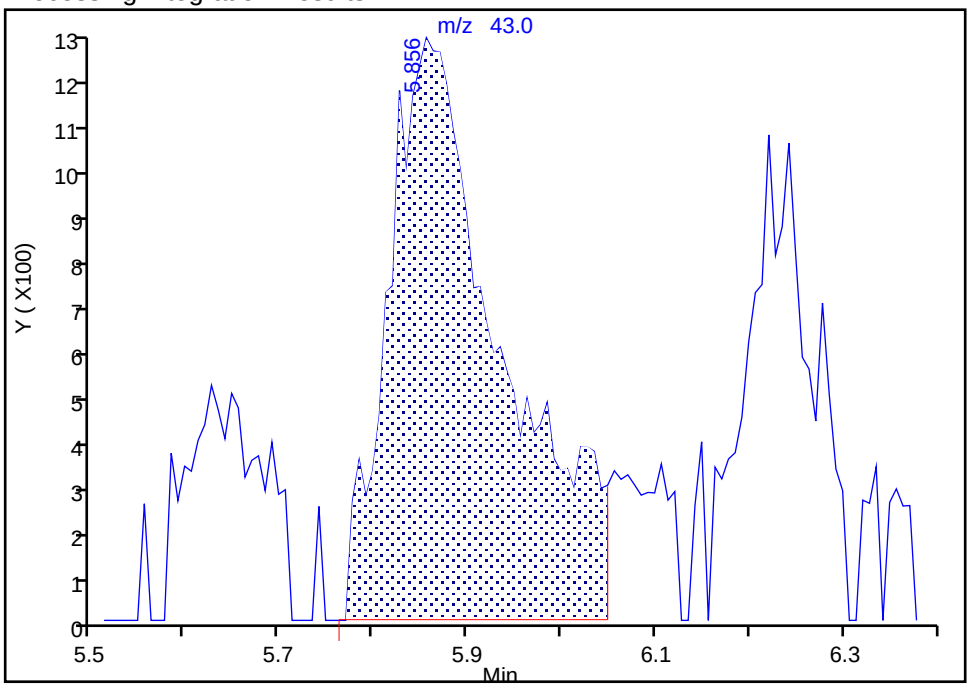
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X11.D
Injection Date: 25-Mar-2024 16:50:30 Instrument ID: 9355
Lims ID: IC v1
Client ID:
Operator ID: knk41612 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

40 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

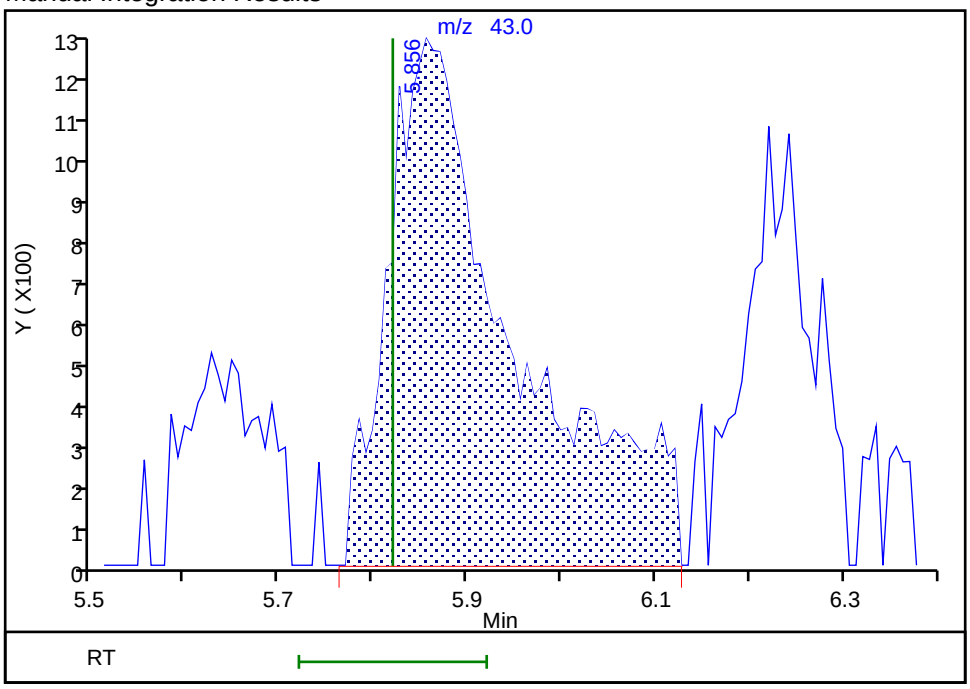
Processing Integration Results

RT: 5.86
Area: 10859
Amount: 2.460405
Amount Units: ug/l



Manual Integration Results

RT: 5.86
Area: 12148
Amount: 2.728837
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:47:27 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

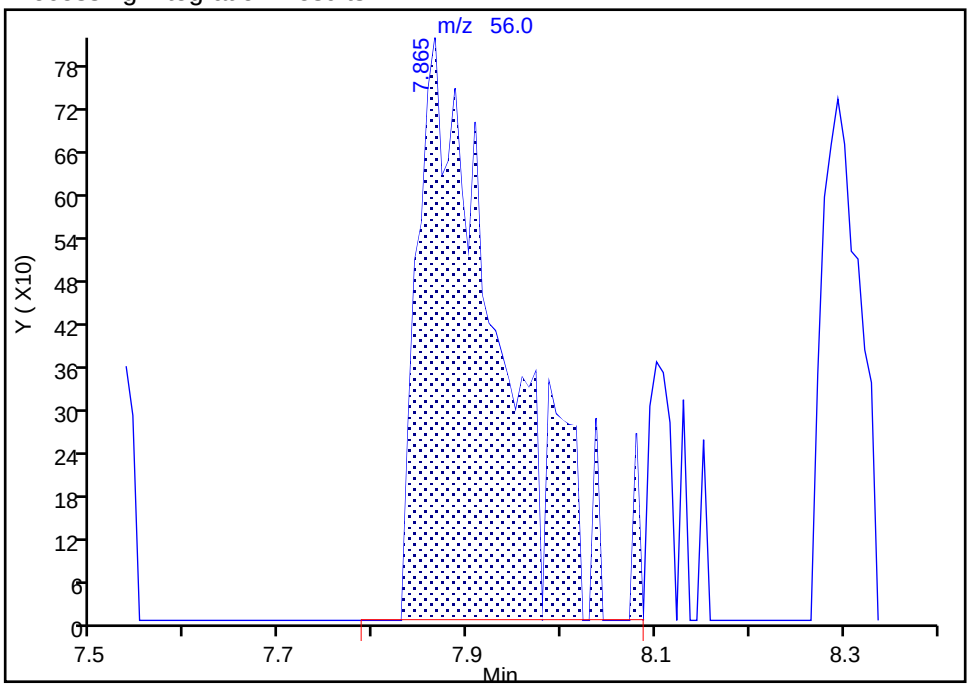
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X11.D				
Injection Date:	25-Mar-2024 16:50:30	Instrument ID:	9355		
Lims ID:	IC v1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

66 n-Butanol, CAS: 71-36-3

Signal: 1

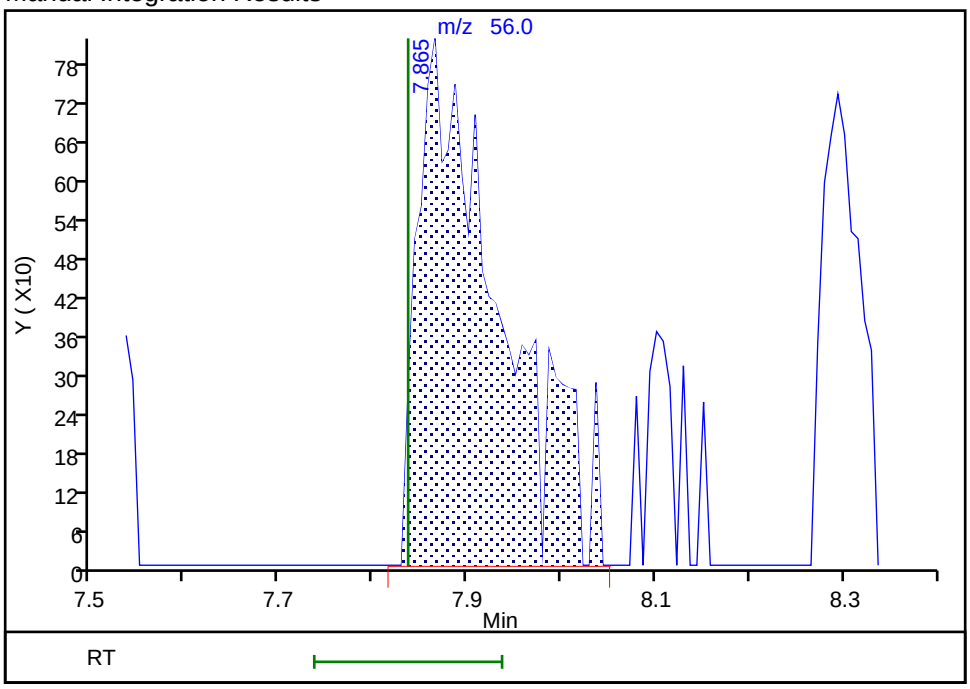
Processing Integration Results

RT: 7.87
Area: 5147
Amount: 13.442164
Amount Units: ug/l



Manual Integration Results

RT: 7.87
Area: 5035
Amount: 13.703035
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:47:39 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

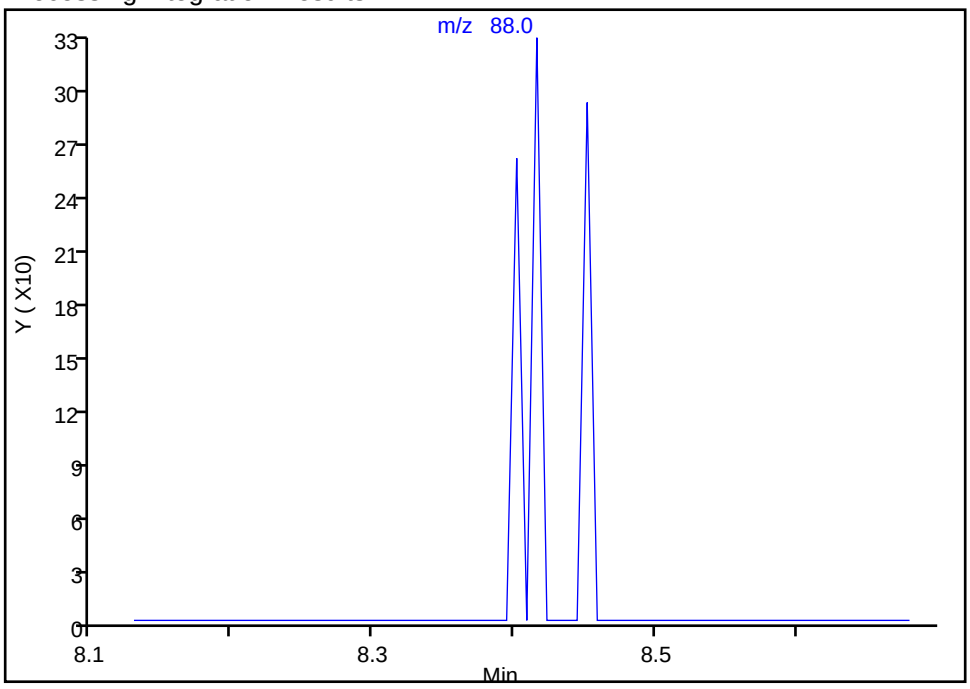
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X11.D
Injection Date: 25-Mar-2024 16:50:30 Instrument ID: 9355
Lims ID: IC v1
Client ID:
Operator ID: knk41612 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

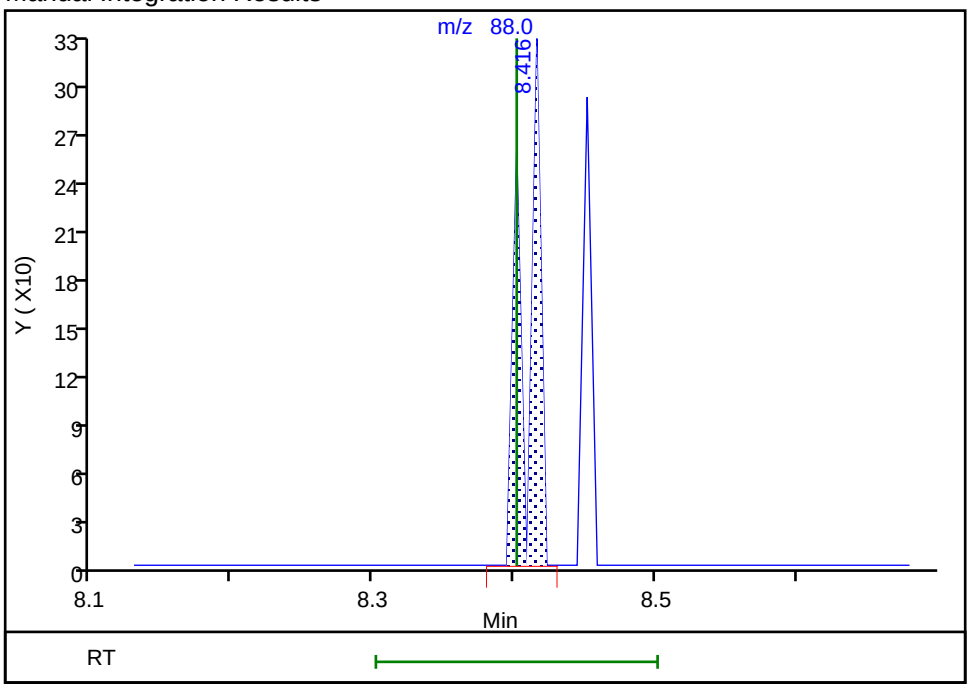
Not Detected
Expected RT: 8.40

Processing Integration Results



Manual Integration Results

RT: 8.42
Area: 249
Amount: 2.005491
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:47:45 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

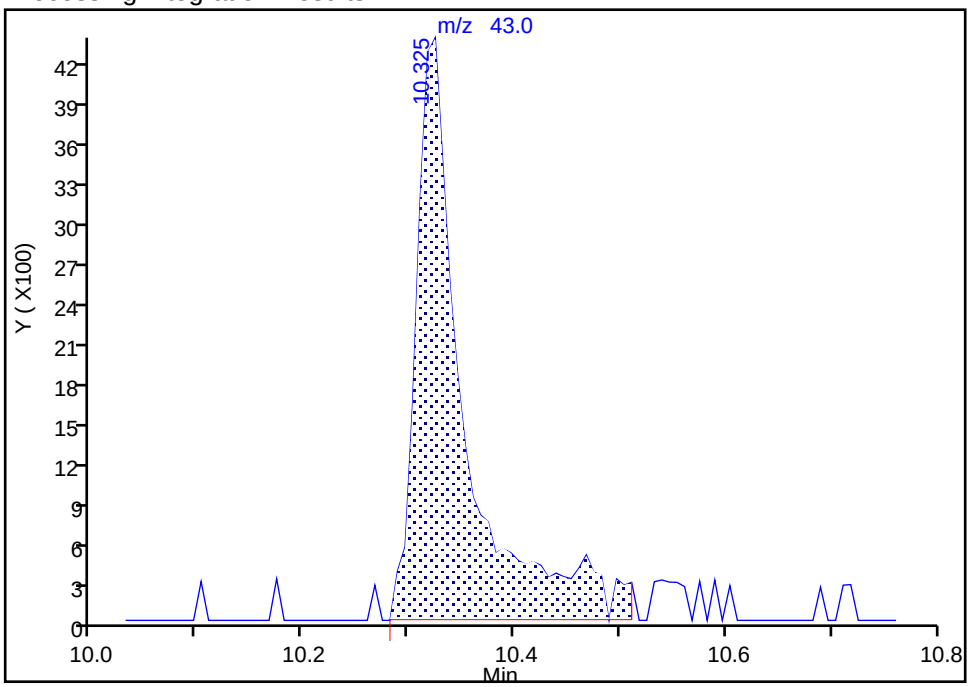
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X11.D
Injection Date: 25-Mar-2024 16:50:30 Instrument ID: 9355
Lims ID: IC v1
Client ID:
Operator ID: knk41612 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

129 2-Hexanone, CAS: 591-78-6

Signal: 1

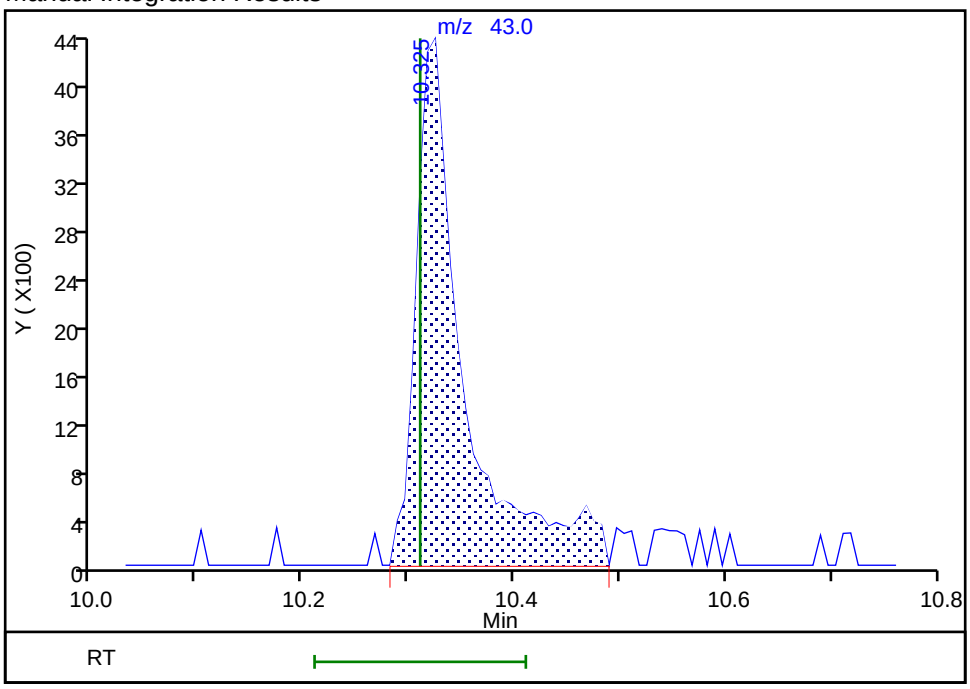
Processing Integration Results

RT: 10.32
Area: 14189
Amount: 2.233730
Amount Units: ug/l



Manual Integration Results

RT: 10.32
Area: 13817
Amount: 2.225572
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:48:01 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X12.D
Lims ID: IC v4
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 25-Mar-2024 17:12:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0109476-013
Misc. Info.: IC 4
Operator ID: knk41612 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub95

Method: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 25-Mar-2024 22:25:13 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1656

First Level Reviewer: K4WN Date: 25-Mar-2024 19:49:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.859	1.852	0.007	99	29507	4.00	3.89	
4 Chloromethane	50	2.038	2.038	0.000	100	31861	4.00	3.92	
6 Vinyl chloride	62	2.145	2.138	0.007	98	29771	4.00	3.96	
5 Butadiene	39	2.145	2.145	0.000	95	29845	4.00	4.10	M
8 Bromomethane	94	2.467	2.460	0.007	92	19864	4.00	3.89	
9 Chloroethane	64	2.531	2.531	0.000	97	13961	4.00	3.94	
10 Dichlorofluoromethane	67	2.760	2.753	0.007	97	40296	4.00	3.82	
11 Trichlorofluoromethane	101	2.831	2.831	0.000	95	30046	4.00	3.90	
12 Pentane	43	2.853	2.846	0.007	96	24677	4.00	3.97	M
14 Ethyl ether	59	3.046	3.046	0.000	93	12581	4.00	3.88	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.117	3.125	-0.008	90	20682	4.00	4.19	
16 Acrolein	56	3.196	3.189	0.007	98	57352	40.0	37.7	
17 1,1-Dichloroethene	96	3.346	3.339	0.007	98	13667	4.00	4.10	
18 Acetone	58	3.361	3.346	0.015	93	5604	8.00	6.97	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.375	3.382	-0.007	92	17354	4.00	4.07	
20 Isopropyl alcohol	45	3.504	3.496	0.008	95	12433	20.0	17.1	
21 Iodomethane	142	3.525	3.525	0.000	99	28665	4.00	4.05	
22 Carbon disulfide	76	3.647	3.639	0.008	99	50130	4.00	3.92	
24 Methyl acetate	43	3.761	3.747	0.014	95	18511	4.00	3.71	
25 3-Chloro-1-propene	41	3.782	3.782	0.000	88	24387	4.00	4.19	
* 26 t-Butyl alcohol-d10 (IS)	65	3.947	3.954	-0.007	90	365952	250.0	250.0	M
27 Methylene Chloride	84	3.961	3.954	0.007	90	15891	4.00	3.94	
28 2-Methyl-2-propanol	59	4.054	4.068	-0.014	97	25326	20.0	16.7	
29 Acrylonitrile	53	4.269	4.247	0.022	100	23949	10.0	8.83	
30 Methyl tert-butyl ether	73	4.347	4.347	0.000	95	57714	4.00	3.80	
31 trans-1,2-Dichloroethene	96	4.369	4.362	0.007	98	14571	4.00	4.11	
33 Hexane	57	4.798	4.791	0.007	93	19917	4.00	3.91	
34 1,1-Dichloroethane	63	5.027	5.019	0.008	95	25692	4.00	4.01	
36 Isopropyl ether	45	5.077	5.077	0.000	93	48904	4.00	3.80	
37 2-Chloro-1,3-butadiene	53	5.148	5.134	0.014	92	22542	4.00	4.02	

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	5.620	5.634	-0.014	97	51036	4.00	3.70	
40 2-Butanone (MEK)	43	5.835	5.820	0.015	99	32702	8.00	7.37	
41 cis-1,2-Dichloroethene	96	5.863	5.856	0.007	82	16429	4.00	3.93	
42 2,2-Dichloropropane	77	5.885	5.892	-0.007	80	27441	4.00	4.06	
43 Propionitrile	54	5.913	5.892	0.021	92	21986	20.0	16.8	
45 Methyl acrylate	55	5.999	5.970	0.029	98	21432	4.00	3.53	
46 Methacrylonitrile	67	6.128	6.121	0.007	91	24671	10.0	8.83	
S 47 1,2-Dichloroethene, Total	100				0			8.04	
48 Chlorobromomethane	128	6.213	6.199	0.014	79	8083	4.00	3.79	
49 Tetrahydrofuran	71	6.228	6.221	0.007	89	21356	20.0	18.3	
51 Chloroform	83	6.356	6.349	0.007	93	51895	4.00	4.16	
$ 52 Dibromofluoromethane (Surr)	113	6.578	6.578	0.000	93	193591	50.0	50.2	
53 1,1,1-Trichloroethane	97	6.585	6.592	-0.007	98	26163	4.00	4.00	
54 Cyclohexane	56	6.714	6.707	0.007	91	29347	4.00	4.07	
55 1,1-Dichloropropene	75	6.821	6.814	0.007	92	20399	4.00	4.10	
56 Carbon tetrachloride	117	6.821	6.814	0.007	92	20668	4.00	3.94	
57 Isobutyl alcohol	41	6.943	6.943	0.000	91	21818	50.0	45.6	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.036	7.036	0.000	83	48918	50.0	49.9	
59 Benzene	78	7.079	7.072	0.007	95	62209	4.00	3.97	
60 1,2-Dichloroethane	62	7.150	7.143	0.007	97	21542	4.00	3.81	
62 Tert-amyl methyl ether	73	7.272	7.272	0.000	97	50365	4.00	3.61	
* 63 Fluorobenzene (IS)	96	7.486	7.486	0.000	99	812080	50.0	50.0	
64 n-Heptane	43	7.508	7.508	0.000	91	22496	4.00	3.91	M
66 n-Butanol	56	7.851	7.837	0.014	88	13209	50.0	37.2	
67 Trichloroethene	95	7.980	7.980	0.000	97	15788	4.00	3.92	
68 Ethyl acrylate	55	8.101	8.087	0.014	98	24208	4.00	3.52	
69 Methylcyclohexane	83	8.294	8.301	-0.007	90	28700	4.00	3.90	
70 1,2-Dichloropropane	63	8.309	8.309	-0.001	80	15320	4.00	3.71	
71 2-ethoxy-2-methyl butane	87	8.323	8.323	0.000	93	24548	4.00	3.63	
72 Methyl methacrylate	69	8.394	8.387	0.007	89	15087	4.00	3.43	
73 1,4-Dioxane	88	8.416	8.402	0.014	39	2759	50.0	23.0	
74 Dibromomethane	93	8.430	8.423	0.007	96	10485	4.00	3.58	
76 Dichlorobromomethane	83	8.659	8.659	0.000	98	18555	4.00	3.60	
77 2-Nitropropane	41	8.902	8.902	0.000	98	39212	20.0	17.5	
78 2-Chloroethyl vinyl ether	63	9.038	9.024	0.014	91	11800	4.00	3.74	
79 cis-1,3-Dichloropropene	75	9.224	9.224	0.000	94	22727	4.00	3.50	
80 4-Methyl-2-pentanone (MIBK)	43	9.388	9.388	0.000	97	64011	8.00	7.39	
$ 81 Toluene-d8 (Surr)	98	9.546	9.546	0.000	94	793488	50.0	50.4	
82 Toluene	92	9.624	9.624	0.000	96	38431	4.00	3.84	
83 trans-1,3-Dichloropropene	75	9.896	9.889	0.007	93	20723	4.00	3.47	
84 Ethyl methacrylate	69	9.960	9.953	0.007	89	27085	4.00	3.56	
S 125 1,3-Dichloropropene, Total	100				0			6.98	
126 1,1,2-Trichloroethane	97	10.096	10.096	0.000	92	14362	4.00	3.52	
127 Tetrachloroethene	166	10.203	10.196	0.007	97	17501	4.00	4.09	
128 1,3-Dichloropropane	76	10.268	10.261	0.007	91	23739	4.00	3.64	
129 2-Hexanone	43	10.318	10.311	0.007	97	48539	8.00	7.82	
132 Chlorodibromomethane	129	10.489	10.489	0.000	90	14040	4.00	3.33	
133 Ethylene Dibromide	107	10.611	10.604	0.007	97	14639	4.00	3.40	
* 134 Chlorobenzene-d5 (IS)	117	11.040	11.040	0.000	86	604419	50.0	50.0	
135 1-Chlorohexane	91	11.054	11.054	0.000	97	21644	4.00	3.91	
136 Chlorobenzene	112	11.069	11.069	-0.001	95	43147	4.00	3.75	
137 1,1,1,2-Tetrachloroethane	131	11.154	11.154	0.000	93	16239	4.00	3.57	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
138 Ethylbenzene	91	11.161	11.154	0.007	98	79484	4.00	3.84	
S 139 Xylenes, Total	106				0			11.3	
140 m-Xylene & p-Xylene	106	11.276	11.276	0.000	100	61428	8.00	7.55	
141 n-Butyl acrylate	55	11.562	11.555	0.007	96	37009	4.00	3.80	
142 o-Xylene	106	11.612	11.605	0.007	96	32228	4.00	3.72	
143 Styrene	104	11.626	11.626	0.000	94	51445	4.00	3.73	
144 Bromoform	173	11.791	11.784	0.007	96	11259	4.00	3.16	
145 Isopropylbenzene	105	11.912	11.912	0.000	95	79043	4.00	3.69	
147 Cyclohexanone	55	11.977	11.977	0.000	93	120441	200.0	213.7	
$ 148 4-Bromofluorobenzene (Surr)	95	12.062	12.062	0.000	90	317786	50.0	51.4	
149 1,1,2,2-Tetrachloroethane	83	12.155	12.155	0.000	95	29633	4.00	3.39	
150 Bromobenzene	156	12.177	12.177	0.000	96	20762	4.00	3.57	
151 trans-1,4-Dichloro-2-butene	53	12.184	12.177	0.007	90	18176	10.0	7.64	
152 1,2,3-Trichloropropane	110	12.205	12.198	0.007	85	9100	4.00	3.38	
153 N-Propylbenzene	91	12.248	12.248	0.000	99	98843	4.00	3.67	
154 2-Chlorotoluene	126	12.320	12.320	0.000	97	21055	4.00	3.63	
155 1,3,5-Trimethylbenzene	105	12.384	12.384	0.000	93	74711	4.00	3.55	
156 4-Chlorotoluene	126	12.420	12.413	0.007	96	20196	4.00	3.63	
158 tert-Butylbenzene	134	12.627	12.627	0.000	93	13374	4.00	3.40	
160 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	97	77761	4.00	3.55	
161 sec-Butylbenzene	105	12.792	12.792	0.000	94	94074	4.00	3.55	
162 1,3-Dichlorobenzene	146	12.892	12.892	0.000	98	41597	4.00	3.56	
163 4-Isopropyltoluene	119	12.899	12.899	0.000	97	83474	4.00	3.52	
* 164 1,4-Dichlorobenzene-d4	152	12.949	12.949	0.000	95	382237	50.0	50.0	
165 1,4-Dichlorobenzene	146	12.970	12.963	0.007	96	44208	4.00	3.66	
166 1,2,3-Trimethylbenzene	105	12.978	12.978	0.000	97	83093	4.00	3.52	
167 Benzyl chloride	91	13.042	13.035	0.007	99	57165	4.00	3.21	
168 1,3-Diethylbenzene	119	13.106	13.099	0.007	96	50439	4.00	3.56	
169 p-Diethylbenzene	119	13.178	13.178	0.000	94	52466	4.00	3.53	
170 n-Butylbenzene	92	13.199	13.192	0.007	98	43190	4.00	3.63	
171 1,2-Dichlorobenzene	146	13.228	13.221	0.007	99	45419	4.00	3.59	
172 o-diethylbenzene	119	13.249	13.249	0.000	94	40231	4.00	3.36	
175 1,2-Dibromo-3-Chloropropane	75	13.771	13.764	0.007	84	8855	4.00	3.13	
176 1,3,5-Trichlorobenzene	180	13.900	13.900	0.000	98	35331	4.00	3.46	
177 1,2,4-Trichlorobenzene	180	14.329	14.322	0.007	95	36680	4.00	3.48	
178 2-Ethylhexyl acrylate	55	14.379	14.379	0.000	82	30969	4.00	3.31	
179 Hexachlorobutadiene	225	14.408	14.408	0.000	96	12548	4.00	3.31	
180 Naphthalene	128	14.508	14.501	0.007	97	138815	4.00	3.46	
181 1,2,3-Trichlorobenzene	180	14.644	14.644	0.000	96	37690	4.00	3.49	
182 2-Methylnaphthalene	142	15.266	15.259	0.007	92	71003	4.00	3.14	
S 211 Total Diethylbenzene	1				0			10.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00176	Amount Added:	4.00	Units: uL	
MSV_CCV_CYC_00008	Amount Added:	32.00	Units: uL	
MSV_CCV_VOC#3_00172	Amount Added:	3.20	Units: uL	
MSV_CCV_2CEVE_00168	Amount Added:	4.00	Units: uL	
MSV_CCV_EE_00006	Amount Added:	4.00	Units: uL	
MSV_CCV_GASES_00760	Amount Added:	2.00	Units: uL	
MSV_CCV_OH_Sp_00009	Amount Added:	4.00	Units: uL	
MSV_HP20_ISSS_00129	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 25-Mar-2024 22:25:13 Chrom Revision: 2.3 20-Mar-2024 17:23:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X12.D

Injection Date: 25-Mar-2024 17:12:30 Instrument ID: 9355 Operator ID: knk41612

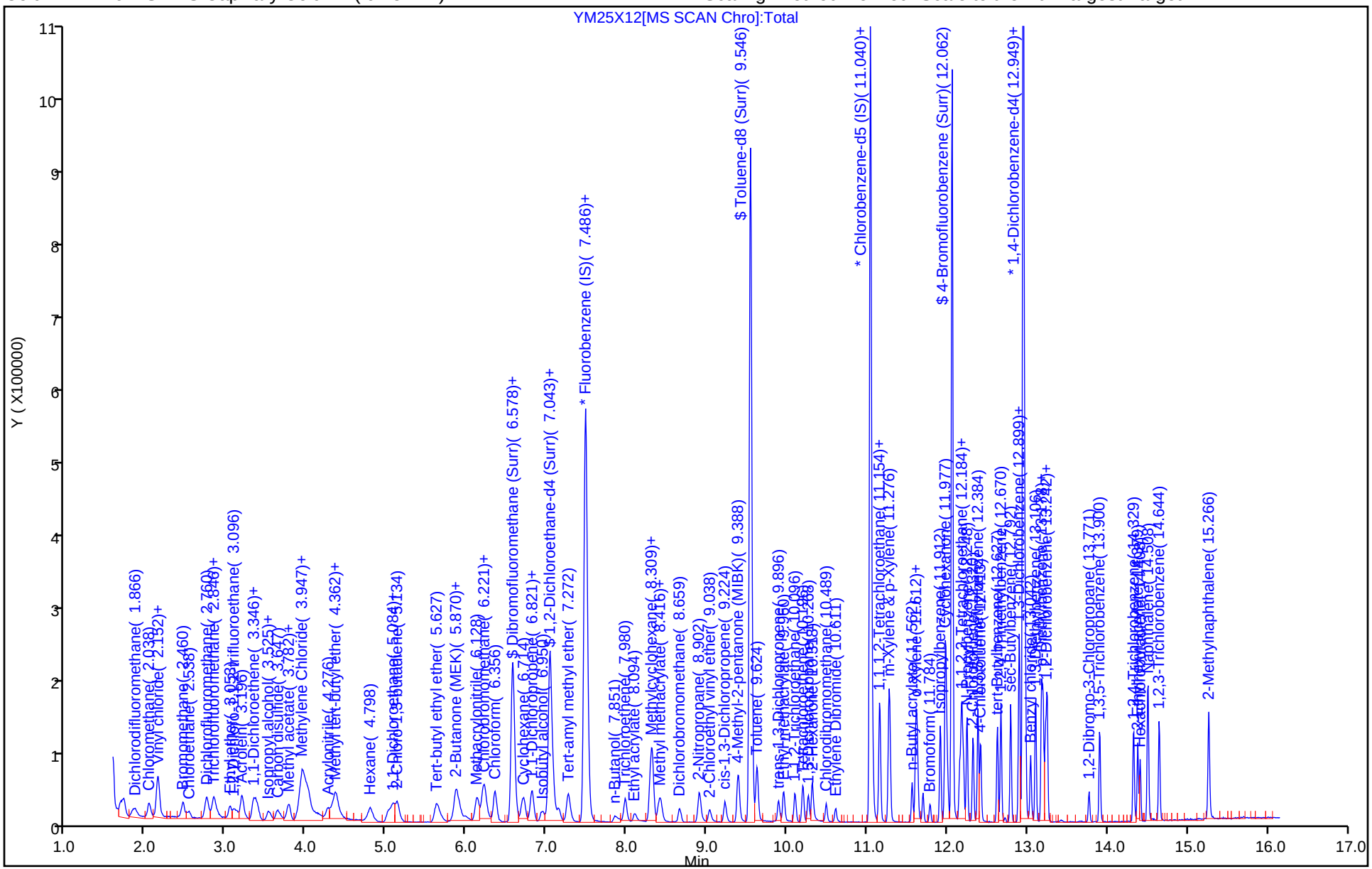
Lims ID: IC v4 Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

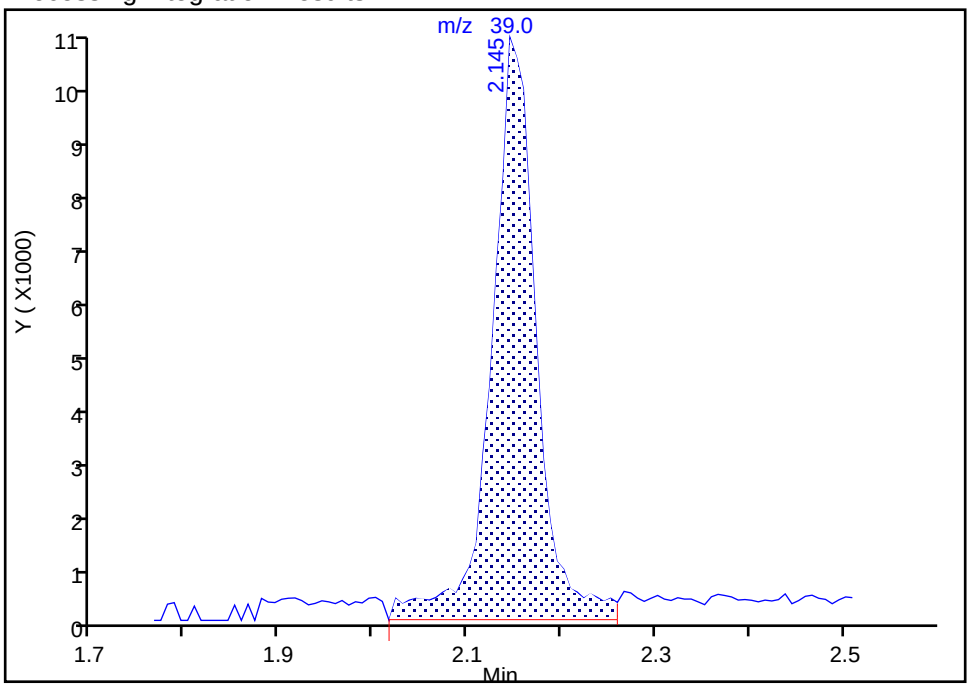
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X12.D				
Injection Date:	25-Mar-2024 17:12:30	Instrument ID:	9355		
Lims ID:	IC v4				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

5 Butadiene, CAS: 106-99-0

Signal: 1

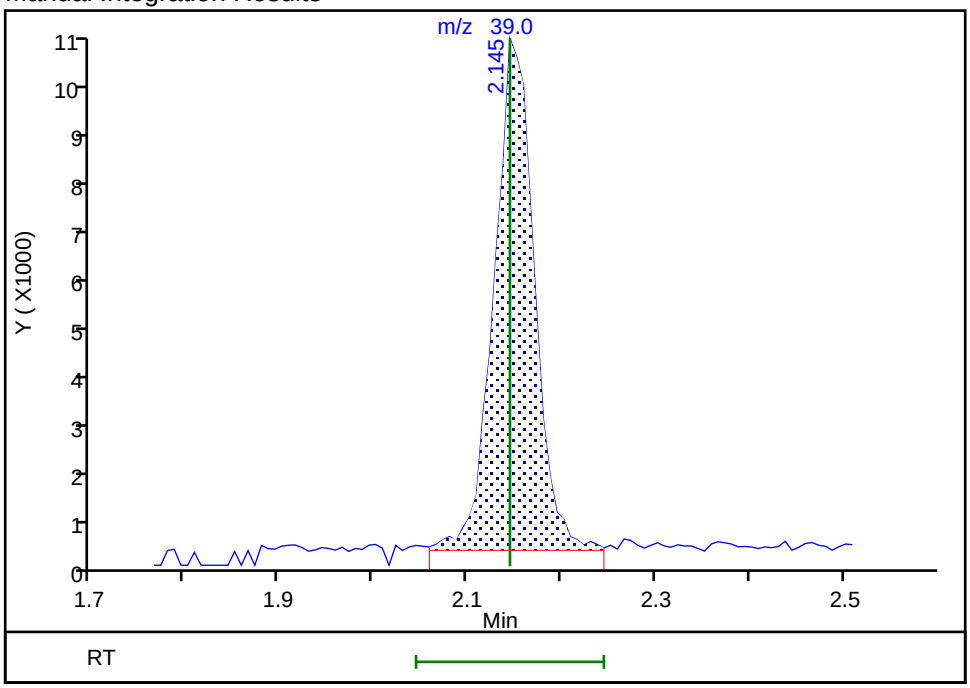
Processing Integration Results

RT: 2.15
Area: 33979
Amount: 4.777118
Amount Units: ug/l



Manual Integration Results

RT: 2.15
Area: 29845
Amount: 4.099522
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:48:48 -04:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

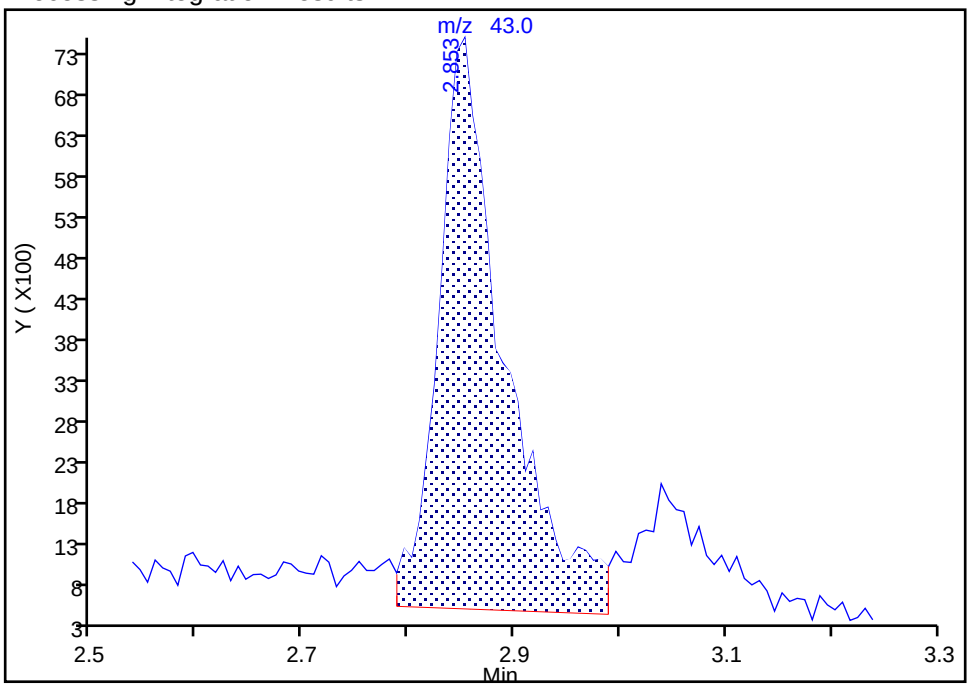
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X12.D				
Injection Date:	25-Mar-2024 17:12:30	Instrument ID:	9355		
Lims ID:	IC v4				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

12 Pentane, CAS: 109-66-0

Signal: 1

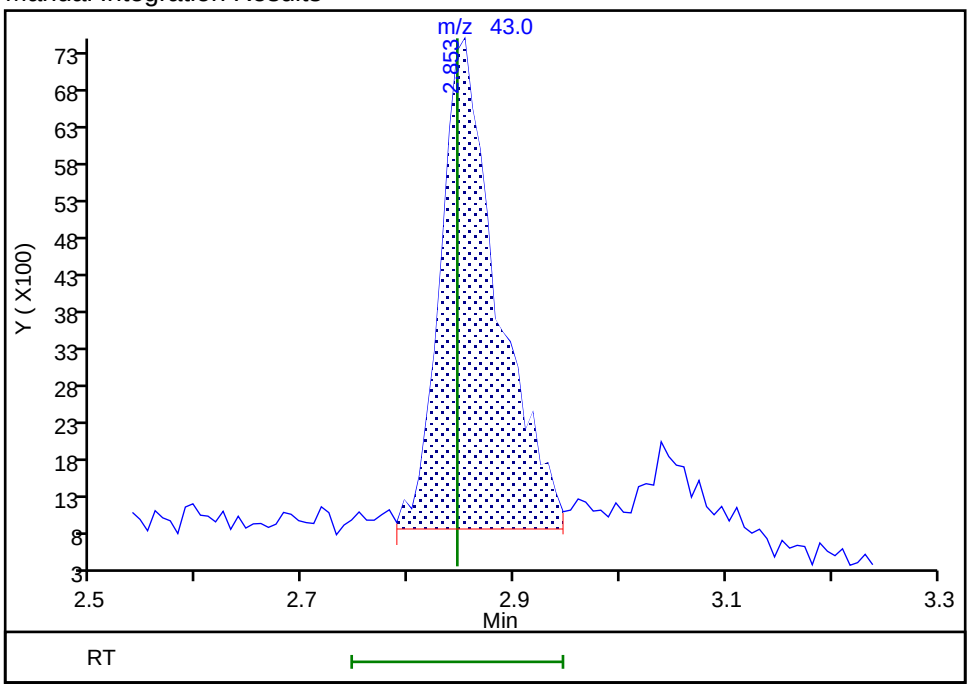
Processing Integration Results

RT: 2.85
Area: 29945
Amount: 4.712169
Amount Units: ug/l



Manual Integration Results

RT: 2.85
Area: 24677
Amount: 3.967594
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:49:06 -04:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

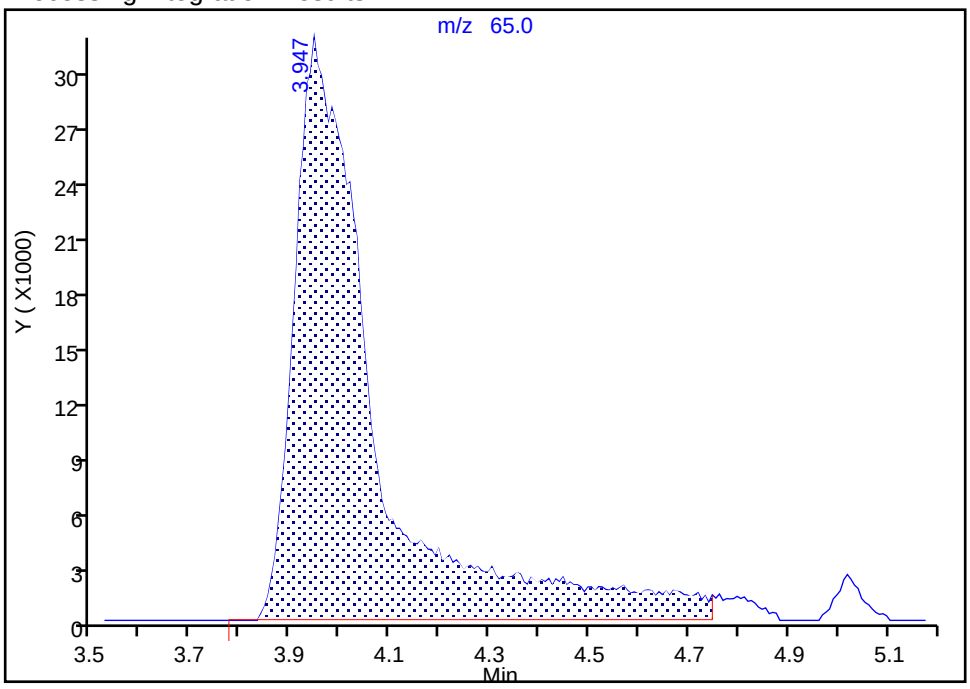
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X12.D
Injection Date: 25-Mar-2024 17:12:30 Instrument ID: 9355
Lims ID: IC v4
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

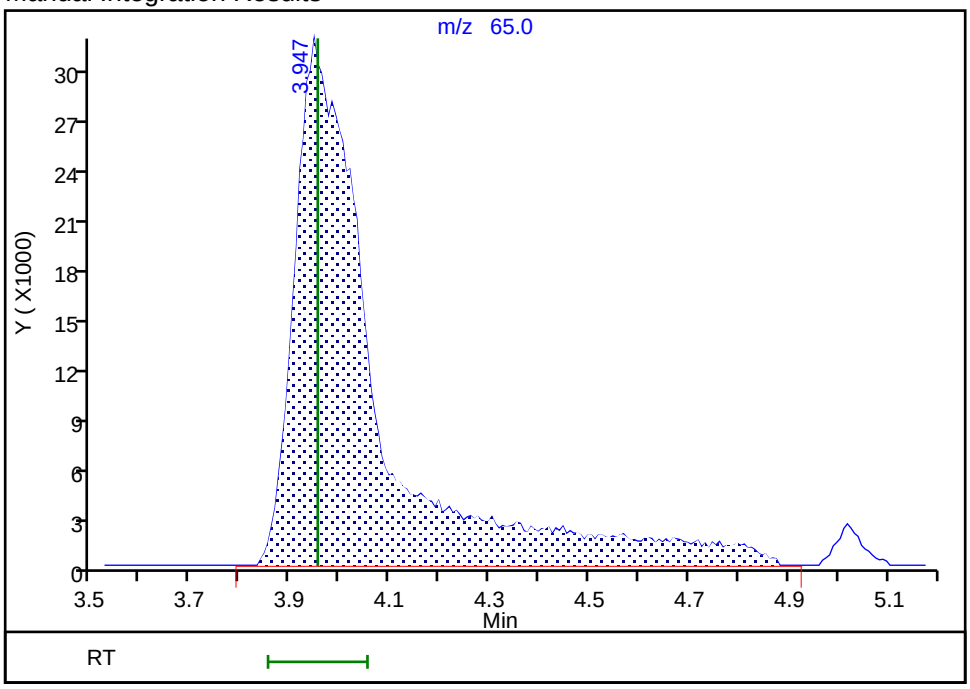
Processing Integration Results

RT: 3.95
Area: 358563
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 3.95
Area: 365952
Amount: 250.0000
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:49:16 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

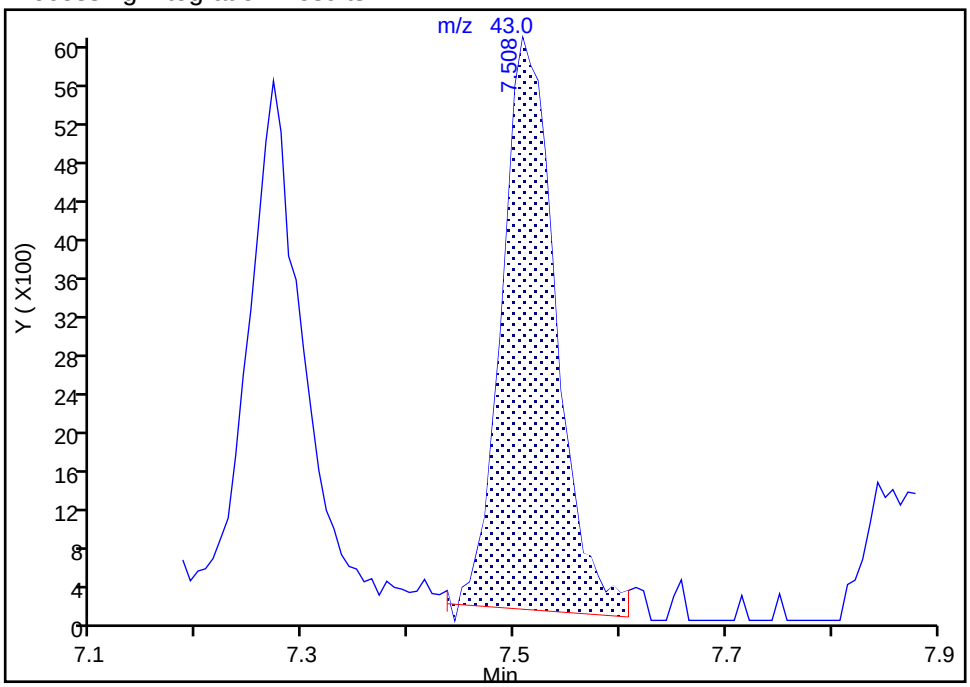
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X12.D				
Injection Date:	25-Mar-2024 17:12:30	Instrument ID:	9355		
Lims ID:	IC v4				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

64 n-Heptane, CAS: 142-82-5

Signal: 1

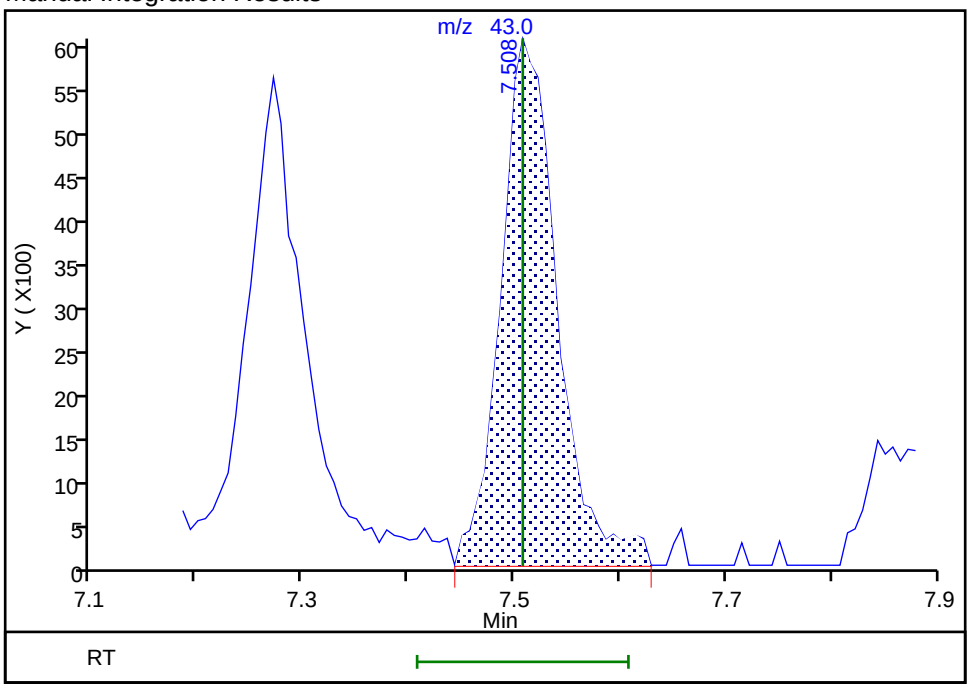
Processing Integration Results

RT: 7.51
Area: 21166
Amount: 3.816056
Amount Units: ug/l



Manual Integration Results

RT: 7.51
Area: 22496
Amount: 3.912004
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:49:38 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D
Lims ID: IC v10
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 25-Mar-2024 20:33:30 ALS Bottle#: 21 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0109476-014
Misc. Info.: IC 10
Operator ID: knk41612 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub95

Method: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 25-Mar-2024 22:25:29 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1656

First Level Reviewer: K4WN Date: 25-Mar-2024 22:01:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.866	1.852	0.014	99	85355	10.0	11.2	
4 Chloromethane	50	2.045	2.038	0.007	99	84315	10.0	10.3	M
6 Vinyl chloride	62	2.152	2.138	0.014	98	80381	10.0	10.6	
5 Butadiene	39	2.159	2.145	0.014	92	81612	10.0	11.2	
8 Bromomethane	94	2.467	2.460	0.007	91	54895	10.0	10.7	
9 Chloroethane	64	2.538	2.531	0.007	99	38108	10.0	10.7	
10 Dichlorofluoromethane	67	2.767	2.753	0.014	97	109488	10.0	10.3	
11 Trichlorofluoromethane	101	2.839	2.831	0.008	97	84243	10.0	10.9	
12 Pentane	43	2.860	2.846	0.014	97	57953	10.0	9.28	
14 Ethyl ether	59	3.053	3.046	0.007	90	32051	10.0	9.85	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.139	3.125	0.014	90	50711	10.0	10.2	
16 Acrolein	56	3.211	3.189	0.022	98	148436	100.0	97.6	
17 1,1-Dichloroethene	96	3.354	3.339	0.015	98	32202	10.0	9.62	
18 Acetone	58	3.361	3.346	0.015	91	16193	20.0	20.1	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.389	3.382	0.007	93	41109	10.0	9.60	
20 Isopropyl alcohol	45	3.511	3.496	0.015	95	34123	50.0	47.0	
21 Iodomethane	142	3.547	3.525	0.022	99	66987	10.0	9.43	
22 Carbon disulfide	76	3.647	3.639	0.008	99	119573	10.0	9.31	
24 Methyl acetate	43	3.768	3.747	0.021	97	44711	10.0	8.93	
25 3-Chloro-1-propene	41	3.790	3.782	0.008	91	51119	10.0	8.74	
* 26 t-Butyl alcohol-d10 (IS)	65	3.954	3.954	0.000	91	365901	250.0	250.0	M
27 Methylene Chloride	84	3.976	3.954	0.022	92	37257	10.0	9.21	
28 2-Methyl-2-propanol	59	4.076	4.068	0.008	99	67401	50.0	44.3	
29 Acrylonitrile	53	4.276	4.247	0.029	97	60048	25.0	22.1	
30 Methyl tert-butyl ether	73	4.355	4.347	0.008	96	139685	10.0	9.17	
31 trans-1,2-Dichloroethene	96	4.376	4.362	0.014	99	34293	10.0	9.64	
33 Hexane	57	4.805	4.791	0.014	93	50103	10.0	9.80	
34 1,1-Dichloroethane	63	5.034	5.019	0.015	96	59669	10.0	9.28	
36 Isopropyl ether	45	5.091	5.077	0.014	93	115409	10.0	8.94	
37 2-Chloro-1,3-butadiene	53	5.148	5.134	0.014	92	53082	10.0	9.42	

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	5.635	5.634	0.000	97	122343	10.0	8.85	
40 2-Butanone (MEK)	43	5.842	5.820	0.022	100	74335	20.0	16.7	
41 cis-1,2-Dichloroethene	96	5.878	5.856	0.022	82	38584	10.0	9.19	
42 2,2-Dichloropropane	77	5.899	5.892	0.007	90	62275	10.0	9.17	
43 Propionitrile	54	5.921	5.892	0.028	95	57589	50.0	43.9	
45 Methyl acrylate	55	5.992	5.970	0.022	99	59258	10.0	9.73	M
46 Methacrylonitrile	67	6.128	6.121	0.007	90	60542	25.0	21.6	
S 47 1,2-Dichloroethene, Total	100				0			18.8	
48 Chlorobromomethane	128	6.214	6.199	0.015	95	19515	10.0	9.13	
49 Tetrahydrofuran	71	6.235	6.221	0.014	91	50390	50.0	43.3	
51 Chloroform	83	6.364	6.349	0.015	93	73541	10.0	7.38	
$ 52 Dibromofluoromethane (Surr)	113	6.585	6.578	0.007	93	195451	50.0	50.5	
53 1,1,1-Trichloroethane	97	6.600	6.592	0.008	98	60228	10.0	9.17	
54 Cyclohexane	56	6.721	6.707	0.014	90	67943	10.0	9.40	
55 1,1-Dichloropropene	75	6.821	6.814	0.007	94	46436	10.0	9.30	
56 Carbon tetrachloride	117	6.821	6.814	0.007	87	46939	10.0	8.91	
57 Isobutyl alcohol	41	6.950	6.943	0.007	94	48694	125.0	101.8	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.050	7.036	0.014	87	49053	50.0	49.9	
59 Benzene	78	7.086	7.072	0.014	95	143616	10.0	9.14	
60 1,2-Dichloroethane	62	7.150	7.143	0.007	97	51778	10.0	9.13	
62 Tert-amyl methyl ether	73	7.279	7.272	0.007	98	121836	10.0	8.69	
* 63 Fluorobenzene (IS)	96	7.494	7.486	0.008	99	815146	50.0	50.0	
64 n-Heptane	43	7.515	7.508	0.007	93	55479	10.0	9.61	
66 n-Butanol	56	7.858	7.837	0.021	90	34213	125.0	96.3	
67 Trichloroethene	95	7.987	7.980	0.007	98	35771	10.0	8.86	
68 Ethyl acrylate	55	8.094	8.087	0.007	99	67312	10.0	9.76	
69 Methylcyclohexane	83	8.302	8.301	0.001	93	68555	10.0	9.29	
70 1,2-Dichloropropane	63	8.309	8.309	0.000	83	36088	10.0	8.72	
71 2-ethoxy-2-methyl butane	87	8.330	8.323	0.007	93	57859	10.0	8.52	
72 Methyl methacrylate	69	8.394	8.387	0.007	89	36331	10.0	8.22	
73 1,4-Dioxane	88	8.409	8.402	0.007	35	11582	125.0	96.5	M
74 Dibromomethane	93	8.423	8.423	0.000	95	26432	10.0	9.00	
76 Dichlorobromomethane	83	8.659	8.659	0.000	99	44633	10.0	8.63	
77 2-Nitropropane	41	8.909	8.902	0.007	99	93664	50.0	41.7	
78 2-Chloroethyl vinyl ether	63	9.031	9.024	0.007	93	24259	10.0	7.66	
79 cis-1,3-Dichloropropene	75	9.231	9.224	0.007	95	55415	10.0	8.51	
80 4-Methyl-2-pentanone (MIBK)	43	9.388	9.388	0.000	97	152949	20.0	17.6	
$ 81 Toluene-d8 (Surr)	98	9.546	9.546	0.000	93	796478	50.0	50.2	
82 Toluene	92	9.624	9.624	0.000	98	90610	10.0	8.99	
83 trans-1,3-Dichloropropene	75	9.896	9.889	0.007	94	50233	10.0	8.36	
84 Ethyl methacrylate	69	9.960	9.953	0.007	89	65407	10.0	8.55	
S 125 1,3-Dichloropropene, Total	100				0			16.9	
126 1,1,2-Trichloroethane	97	10.096	10.096	0.000	90	35736	10.0	8.70	
127 Tetrachloroethene	166	10.196	10.196	0.000	97	39443	10.0	9.16	
128 1,3-Dichloropropane	76	10.268	10.261	0.007	90	56881	10.0	8.66	
129 2-Hexanone	43	10.311	10.311	0.000	96	106223	20.0	17.0	
132 Chlorodibromomethane	129	10.490	10.489	0.001	90	35065	10.0	8.25	
133 Ethylene Dibromide	107	10.604	10.604	0.000	99	37580	10.0	8.68	
* 134 Chlorobenzene-d5 (IS)	117	11.040	11.040	0.000	85	608505	50.0	50.0	
135 1-Chlorohexane	91	11.054	11.054	0.000	98	49749	10.0	8.93	
136 Chlorobenzene	112	11.069	11.069	0.000	96	102386	10.0	8.84	
137 1,1,1,2-Tetrachloroethane	131	11.154	11.154	0.000	93	39326	10.0	8.58	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
138 Ethylbenzene	91	11.162	11.154	0.008	98	188519	10.0	9.04	
S 139 Xylenes, Total	106				0			27.2	
140 m-Xylene & p-Xylene	106	11.276	11.276	0.000	99	148803	20.0	18.2	
141 n-Butyl acrylate	55	11.562	11.555	0.007	96	102956	10.0	10.5	
142 o-Xylene	106	11.612	11.605	0.007	96	78436	10.0	9.00	
143 Styrene	104	11.626	11.626	0.000	94	122095	10.0	8.80	
144 Bromoform	173	11.784	11.784	0.000	96	28049	10.0	7.81	
145 Isopropylbenzene	105	11.912	11.912	0.000	96	195575	10.0	9.07	
147 Cyclohexanone	55	11.977	11.977	0.000	93	144138	250.0	248.7	
$ 148 4-Bromofluorobenzene (Surr)	95	12.063	12.062	0.001	90	312615	50.0	50.3	
149 1,1,2,2-Tetrachloroethane	83	12.156	12.155	0.001	94	71987	10.0	8.42	
150 Bromobenzene	156	12.177	12.177	0.000	97	50248	10.0	8.86	
151 trans-1,4-Dichloro-2-butene	53	12.184	12.177	0.007	91	49262	25.0	21.2	
152 1,2,3-Trichloropropane	110	12.206	12.198	0.008	84	23003	10.0	8.74	
153 N-Propylbenzene	91	12.248	12.248	0.000	99	239455	10.0	9.11	
154 2-Chlorotoluene	126	12.320	12.320	0.000	97	49723	10.0	8.78	
155 1,3,5-Trimethylbenzene	105	12.384	12.384	0.000	94	181309	10.0	8.83	
156 4-Chlorotoluene	126	12.420	12.413	0.007	97	48901	10.0	9.00	
158 tert-Butylbenzene	134	12.627	12.627	0.000	93	32631	10.0	8.50	
160 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	98	188664	10.0	8.81	
161 sec-Butylbenzene	105	12.792	12.792	0.000	94	227431	10.0	8.78	
162 1,3-Dichlorobenzene	146	12.892	12.892	0.000	98	101783	10.0	8.91	
163 4-Isopropyltoluene	119	12.899	12.899	0.000	97	202586	10.0	8.74	
* 164 1,4-Dichlorobenzene-d4	152	12.949	12.949	0.000	95	373304	50.0	50.0	
165 1,4-Dichlorobenzene	146	12.971	12.963	0.008	96	104684	10.0	8.87	
166 1,2,3-Trimethylbenzene	105	12.978	12.978	0.000	98	198364	10.0	8.60	
167 Benzyl chloride	91	13.042	13.035	0.007	99	145774	10.0	8.39	
168 1,3-Diethylbenzene	119	13.107	13.099	0.007	95	122426	10.0	8.86	
169 p-Diethylbenzene	119	13.178	13.178	0.000	94	131501	10.0	9.07	
170 n-Butylbenzene	92	13.192	13.192	0.000	97	105928	10.0	9.11	
171 1,2-Dichlorobenzene	146	13.228	13.221	0.007	98	109512	10.0	8.85	
172 o-diethylbenzene	119	13.250	13.249	0.001	95	102684	10.0	8.79	
175 1,2-Dibromo-3-Chloropropane	75	13.771	13.764	0.007	84	22914	10.0	8.29	
176 1,3,5-Trichlorobenzene	180	13.900	13.900	0.000	98	91429	10.0	9.17	
177 1,2,4-Trichlorobenzene	180	14.322	14.322	0.000	94	93364	10.0	9.08	
178 2-Ethylhexyl acrylate	55	14.379	14.379	0.000	81	94413	10.0	10.3	
179 Hexachlorobutadiene	225	14.408	14.408	0.000	97	35175	10.0	9.49	
180 Naphthalene	128	14.501	14.501	0.000	97	351535	10.0	8.98	
181 1,2,3-Trichlorobenzene	180	14.644	14.644	0.000	96	96228	10.0	9.12	
182 2-Methylnaphthalene	142	15.266	15.259	0.007	92	202916	10.0	9.18	
S 211 Total Diethylbenzene	1				0			26.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00176	Amount Added:	2.00	Units: uL	
MSV_CCV_CYC_00008	Amount Added:	8.00	Units: uL	
MSV_CCV_VOC#3_00172	Amount Added:	1.60	Units: uL	
MSV_CCV_2CEVE_00168	Amount Added:	2.00	Units: uL	
MSV_CCV_EE_00006	Amount Added:	2.00	Units: uL	
MSV_CCV_GASES_00760	Amount Added:	1.00	Units: uL	
MSV_CCV_OH_Sp_00009	Amount Added:	2.00	Units: uL	
MSV_HP20_ISSS_00129	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 25-Mar-2024 22:25:29 Chrom Revision: 2.3 20-Mar-2024 17:23:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Injection Date: 25-Mar-2024 20:33:30 Instrument ID: 9355 Operator ID: knk41612

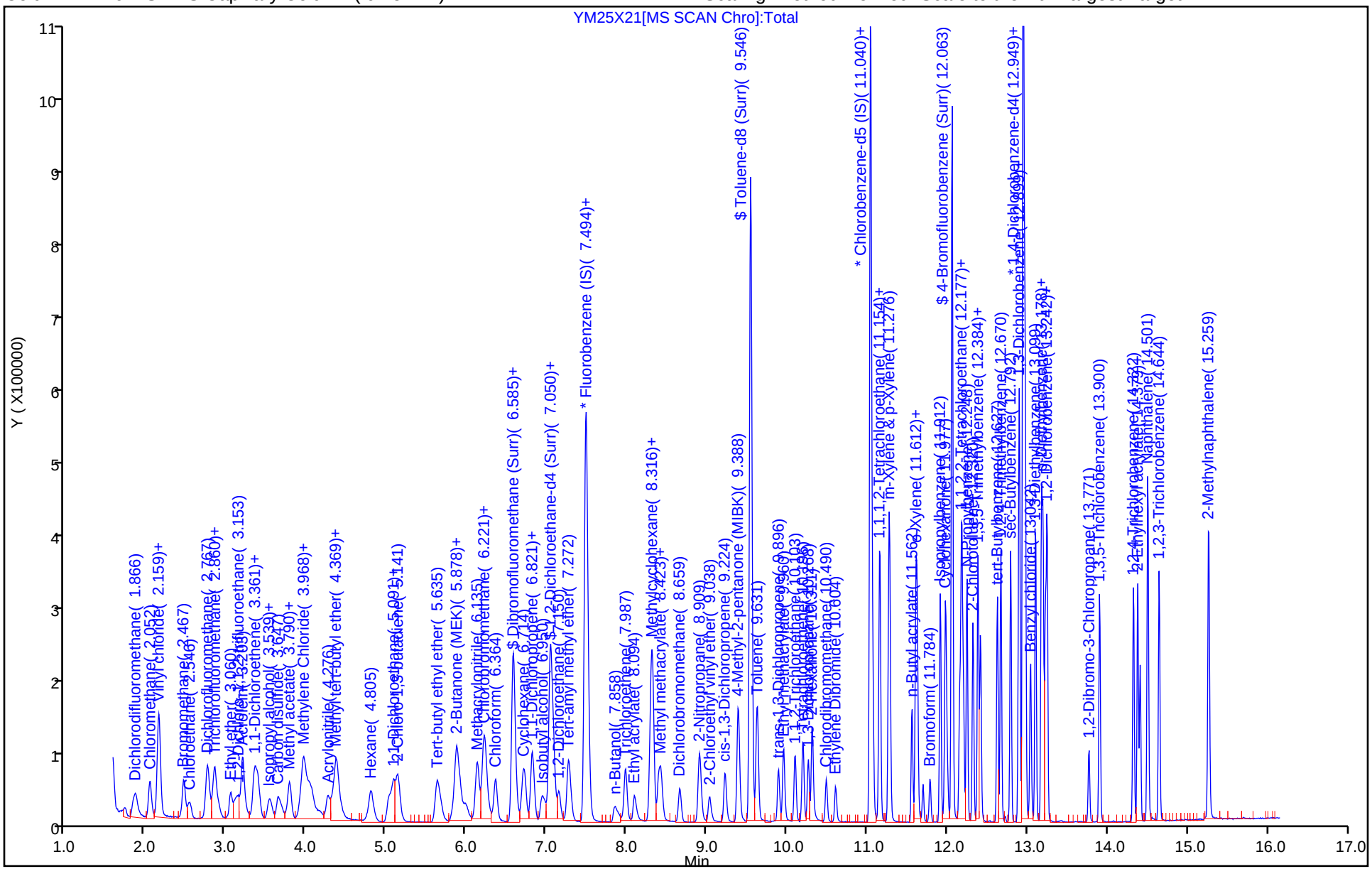
Lims ID: IC v10 Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 21

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

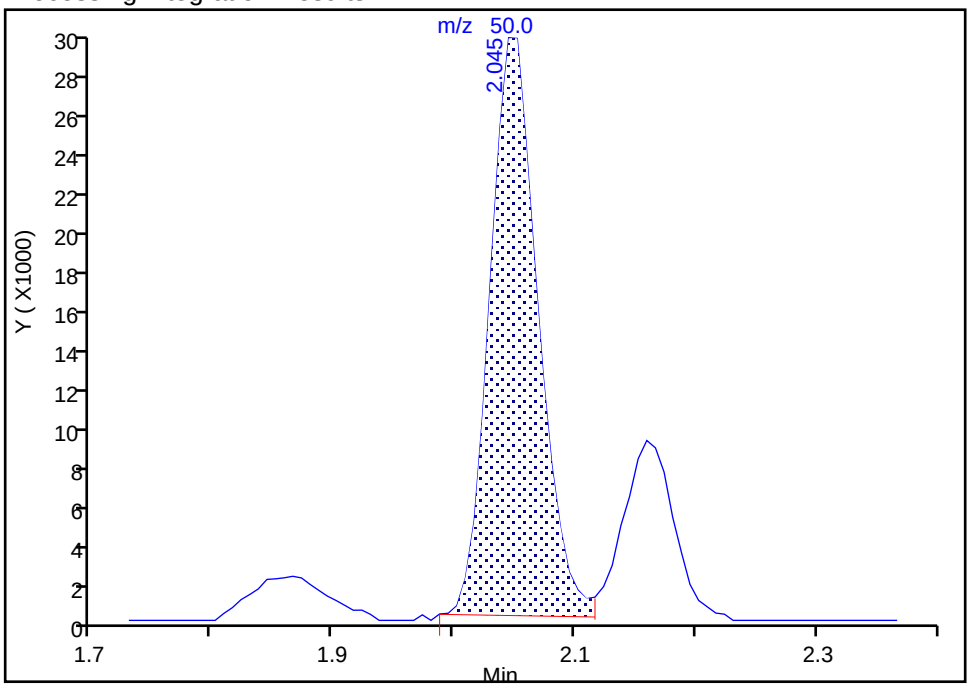
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D
Injection Date: 25-Mar-2024 20:33:30 Instrument ID: 9355
Lims ID: IC v10
Client ID:
Operator ID: knk41612 ALS Bottle#: 21 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

4 Chloromethane, CAS: 74-87-3

Signal: 1

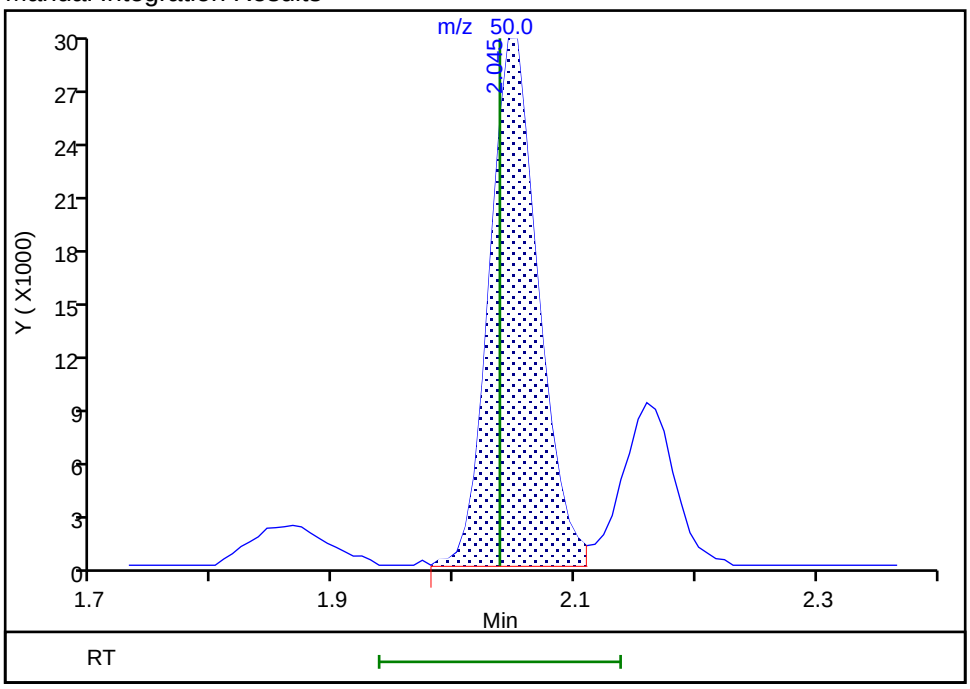
Processing Integration Results

RT: 2.05
Area: 82858
Amount: 10.186250
Amount Units: ug/l



Manual Integration Results

RT: 2.05
Area: 84315
Amount: 10.338912
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 21:57:14 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

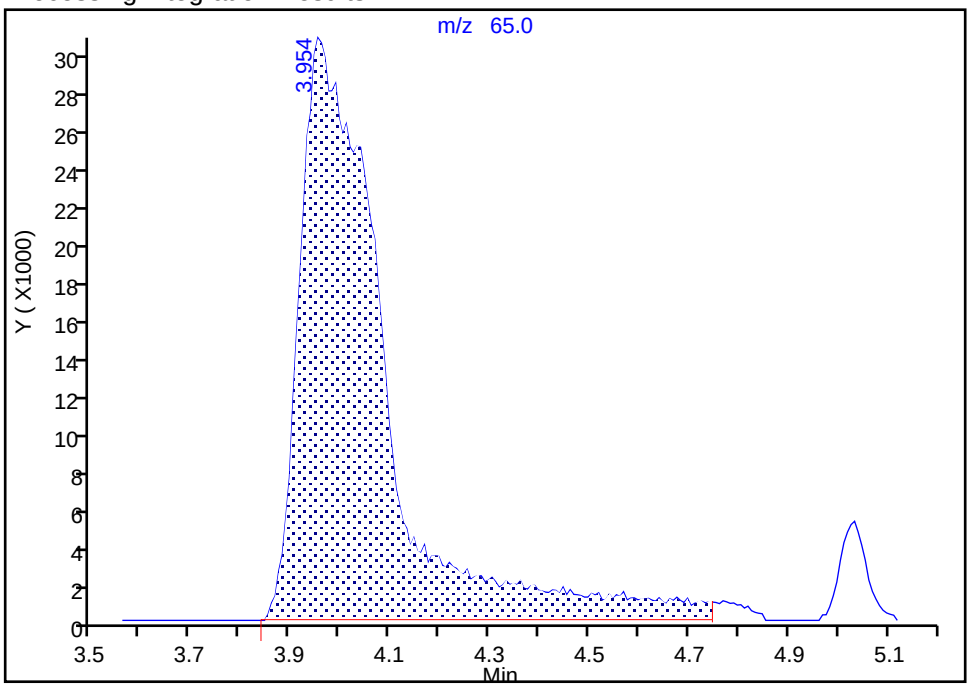
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D
Injection Date: 25-Mar-2024 20:33:30 Instrument ID: 9355
Lims ID: IC v10
Client ID:
Operator ID: knk41612 ALS Bottle#: 21 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

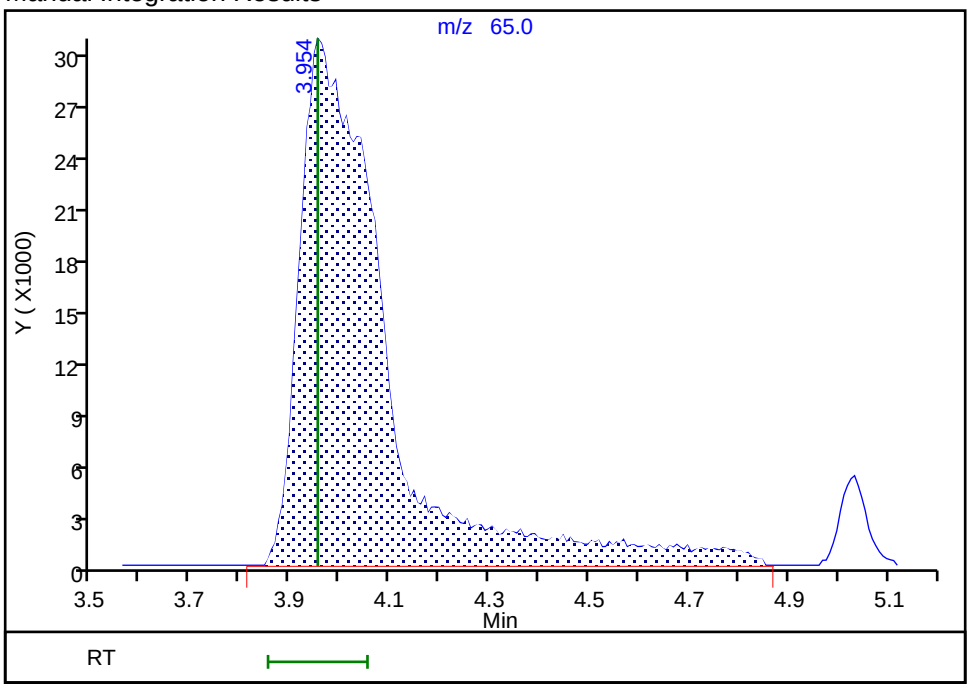
Processing Integration Results

RT: 3.95
Area: 361514
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 3.95
Area: 365901
Amount: 250.0000
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 21:57:25 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

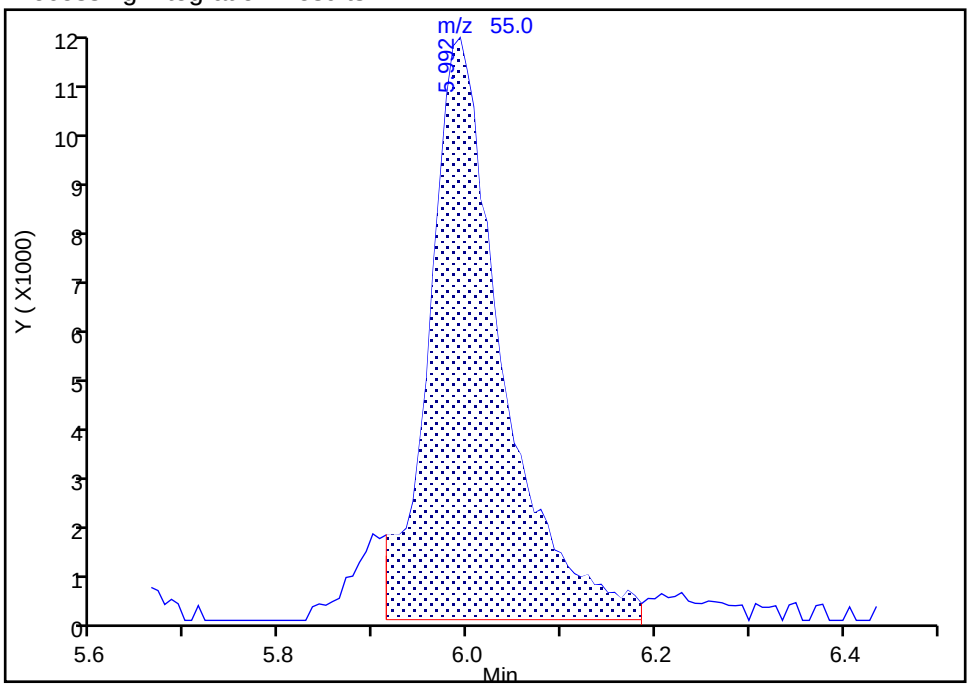
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D				
Injection Date:	25-Mar-2024 20:33:30	Instrument ID:	9355		
Lims ID:	IC v10				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

45 Methyl acrylate, CAS: 96-33-3

Signal: 1

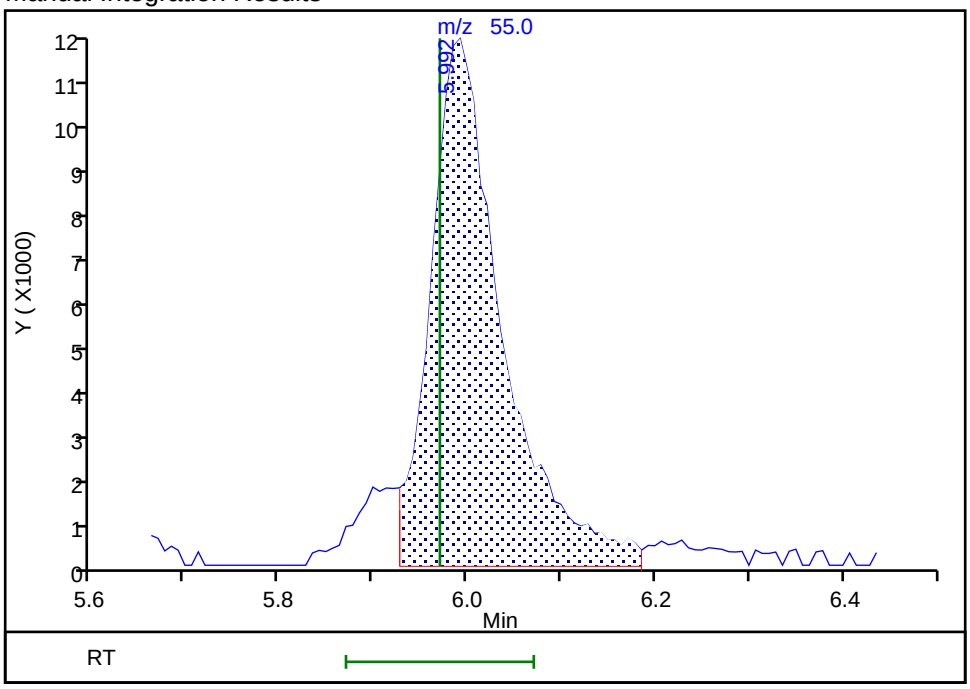
Processing Integration Results

RT: 5.99
Area: 60659
Amount: 9.926232
Amount Units: ug/l



Manual Integration Results

RT: 5.99
Area: 59258
Amount: 9.728831
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 21:57:39 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

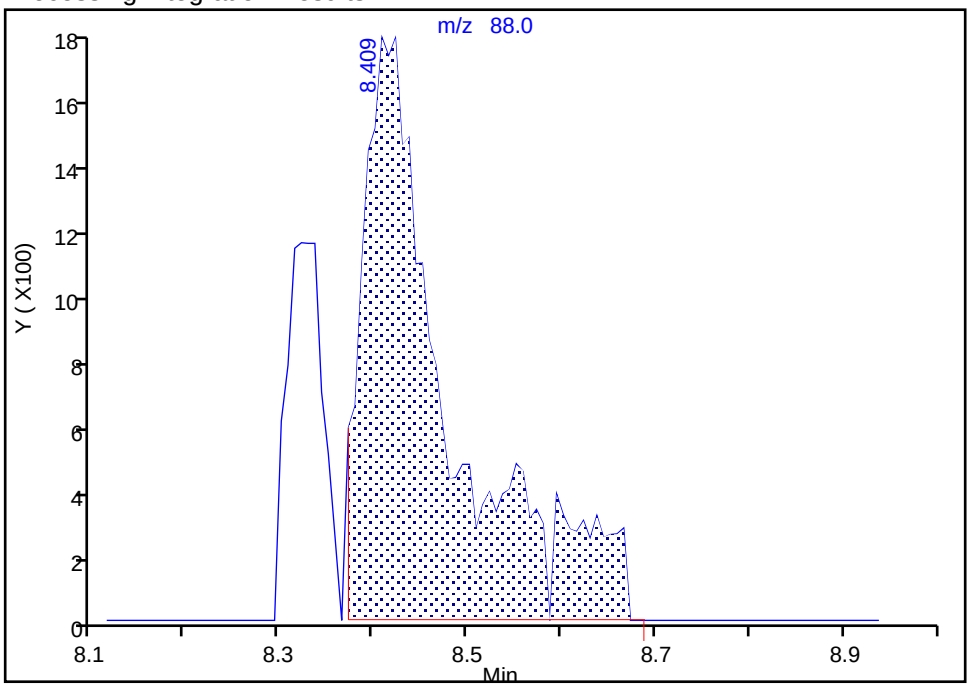
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D				
Injection Date:	25-Mar-2024 20:33:30	Instrument ID:	9355		
Lims ID:	IC v10				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	21	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

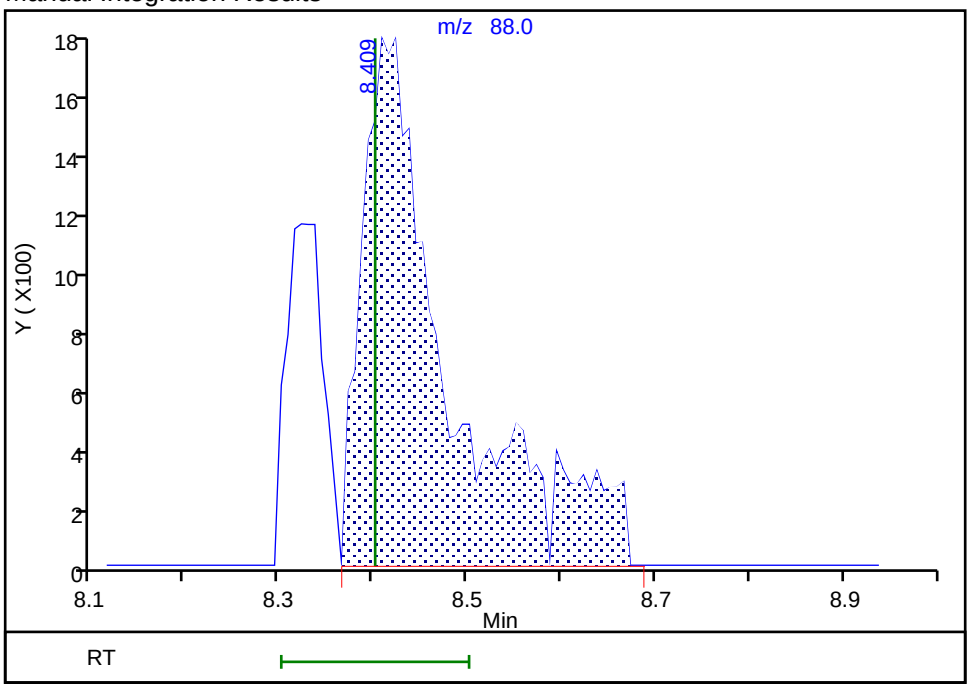
Processing Integration Results

RT: 8.41
Area: 11582
Amount: 96.915601
Amount Units: ug/l



Manual Integration Results

RT: 8.41
Area: 11582
Amount: 96.474613
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 21:57:51 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X14.D
Lims ID: IC v20
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 25-Mar-2024 17:56:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0109476-015
Misc. Info.: IC 20
Operator ID: knk41612 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub95

Method: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 25-Mar-2024 22:25:43 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1656

First Level Reviewer: K4WN Date: 25-Mar-2024 19:52:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.852	1.852	0.000	99	145195	20.0	19.0	
4 Chloromethane	50	2.045	2.045	0.000	99	170569	20.0	20.8	
6 Vinyl chloride	62	2.152	2.152	0.000	98	157918	20.0	20.8	
5 Butadiene	39	2.159	2.159	0.000	96	145333	20.0	19.8	
8 Bromomethane	94	2.467	2.467	0.000	91	106113	20.0	20.6	
9 Chloroethane	64	2.538	2.538	0.000	99	74340	20.0	20.8	
10 Dichlorofluoromethane	67	2.767	2.767	0.000	97	213115	20.0	20.0	
11 Trichlorofluoromethane	101	2.839	2.839	0.000	97	154394	20.0	19.9	
12 Pentane	43	2.853	2.853	0.000	96	130946	20.0	20.9	
14 Ethyl ether	59	3.053	3.053	0.000	91	65707	20.0	20.1	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.132	3.132	0.000	90	99328	20.0	19.9	
16 Acrolein	56	3.203	3.203	0.000	99	337249	200.0	207.3	
17 1,1-Dichloroethene	96	3.346	3.346	0.000	98	71211	20.0	21.2	
18 Acetone	58	3.361	3.361	0.000	100	37491	40.0	43.6	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.382	3.382	0.000	92	93277	20.0	21.7	
20 Isopropyl alcohol	45	3.511	3.511	0.000	62	96862	100.0	124.8	
21 Iodomethane	142	3.532	3.532	0.000	98	151088	20.0	21.2	
22 Carbon disulfide	76	3.647	3.647	0.000	99	268759	20.0	20.8	
24 Methyl acetate	43	3.754	3.754	0.000	97	108241	20.0	21.5	
25 3-Chloro-1-propene	41	3.790	3.790	0.000	88	112735	20.0	19.2	
* 26 t-Butyl alcohol-d10 (IS)	65	3.961	3.961	0.000	97	391329	250.0	250.0	M
27 Methylene Chloride	84	3.968	3.968	0.000	92	85521	20.0	21.0	
28 2-Methyl-2-propanol	59	4.076	4.076	0.000	99	184074	100.0	113.2	
29 Acrylonitrile	53	4.262	4.262	0.000	99	153396	50.0	56.1	
30 Methyl tert-butyl ether	73	4.347	4.347	0.000	95	327066	20.0	21.4	
31 trans-1,2-Dichloroethene	96	4.369	4.369	0.000	99	76972	20.0	21.5	
33 Hexane	57	4.805	4.805	0.000	94	110250	20.0	21.5	
34 1,1-Dichloroethane	63	5.027	5.027	0.000	96	137834	20.0	21.3	
36 Isopropyl ether	45	5.084	5.084	0.000	93	274980	20.0	21.2	
37 2-Chloro-1,3-butadiene	53	5.141	5.141	0.000	92	123026	20.0	21.7	

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	5.634	5.634	0.000	97	294814	20.0	21.2	
40 2-Butanone (MEK)	43	5.835	5.835	0.000	100	189317	40.0	42.3	
41 cis-1,2-Dichloroethene	96	5.870	5.870	0.000	82	89961	20.0	21.3	
42 2,2-Dichloropropane	77	5.892	5.892	0.000	88	144677	20.0	21.2	
43 Propionitrile	54	5.906	5.906	0.000	95	154914	100.0	110.4	
45 Methyl acrylate	55	5.978	5.978	0.000	100	117766	20.0	19.2	M
46 Methacrylonitrile	67	6.135	6.135	0.000	91	156784	50.0	55.6	
S 47 1,2-Dichloroethene, Total	100				0			42.9	
48 Chlorobromomethane	128	6.214	6.214	0.000	93	47564	20.0	22.1	
49 Tetrahydrofuran	71	6.228	6.228	0.000	90	134649	100.0	108.1	
51 Chloroform	83	6.357	6.357	0.000	94	171665	20.0	22.0	
$ 52 Dibromofluoromethane (Surr)	113	6.578	6.578	0.000	93	199257	50.0	51.2	
53 1,1,1-Trichloroethane	97	6.593	6.593	0.000	97	141431	20.0	21.4	
54 Cyclohexane	56	6.714	6.714	0.000	91	153468	20.0	21.1	
55 1,1-Dichloropropene	75	6.821	6.821	0.000	95	109166	20.0	21.8	
56 Carbon tetrachloride	117	6.821	6.821	0.000	96	112818	20.0	21.3	
57 Isobutyl alcohol	41	6.943	6.943	0.000	94	143181	250.0	279.8	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.043	7.043	0.000	93	49220	50.0	49.8	
59 Benzene	78	7.079	7.079	0.000	97	331243	20.0	21.0	
60 1,2-Dichloroethane	62	7.150	7.150	0.000	98	122365	20.0	21.5	
62 Tert-amyl methyl ether	73	7.272	7.272	0.000	98	298682	20.0	21.2	
* 63 Fluorobenzene (IS)	96	7.486	7.486	0.000	99	819097	50.0	50.0	
64 n-Heptane	43	7.515	7.515	0.000	92	115196	20.0	19.9	
66 n-Butanol	56	7.851	7.851	0.000	90	106791	250.0	281.0	
67 Trichloroethene	95	7.980	7.980	0.000	98	86662	20.0	21.4	
68 Ethyl acrylate	55	8.094	8.094	0.000	99	136305	20.0	19.7	
69 Methylcyclohexane	83	8.301	8.301	0.000	90	160362	20.0	21.6	
70 1,2-Dichloropropane	63	8.316	8.316	0.000	82	88132	20.0	21.2	
71 2-ethoxy-2-methyl butane	87	8.323	8.323	0.000	91	145164	20.0	21.3	
72 Methyl methacrylate	69	8.394	8.394	0.000	89	98951	20.0	22.3	
73 1,4-Dioxane	88	8.402	8.402	0.000	38	36356	250.0	283.2	M
74 Dibromomethane	93	8.423	8.423	0.000	97	64586	20.0	21.9	
76 Dichlorobromomethane	83	8.659	8.659	0.000	99	108991	20.0	21.0	
77 2-Nitropropane	41	8.909	8.909	0.000	99	254772	100.0	106.1	
78 2-Chloroethyl vinyl ether	63	9.031	9.031	0.000	92	68797	20.0	21.6	
79 cis-1,3-Dichloropropene	75	9.224	9.224	0.000	95	137374	20.0	21.0	
80 4-Methyl-2-pentanone (MIBK)	43	9.388	9.388	0.000	97	418515	40.0	47.9	
$ 81 Toluene-d8 (Surr)	98	9.546	9.546	0.000	93	808694	50.0	50.0	
82 Toluene	92	9.624	9.624	0.000	98	217322	20.0	21.1	
83 trans-1,3-Dichloropropene	75	9.889	9.889	0.000	94	131345	20.0	21.4	
84 Ethyl methacrylate	69	9.953	9.953	0.000	89	172280	20.0	22.1	
S 125 1,3-Dichloropropene, Total	100				0			42.4	
126 1,1,2-Trichloroethane	97	10.096	10.096	0.000	90	90188	20.0	21.5	
127 Tetrachloroethene	166	10.196	10.196	0.000	98	94930	20.0	21.6	
128 1,3-Dichloropropane	76	10.268	10.268	0.000	91	143833	20.0	21.5	
129 2-Hexanone	43	10.311	10.311	0.000	97	307262	40.0	48.2	
132 Chlorodibromomethane	129	10.489	10.489	0.000	90	93779	20.0	21.6	
133 Ethylene Dibromide	107	10.604	10.604	0.000	98	97967	20.0	22.2	
* 134 Chlorobenzene-d5 (IS)	117	11.040	11.040	0.000	86	620875	50.0	50.0	
135 1-Chlorohexane	91	11.054	11.054	0.000	98	119956	20.0	21.1	
136 Chlorobenzene	112	11.069	11.069	0.000	94	252101	20.0	21.3	
137 1,1,1,2-Tetrachloroethane	131	11.154	11.154	0.000	95	103207	20.0	22.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
138 Ethylbenzene	91	11.162	11.162	0.000	98	456113	20.0	21.4	
S 139 Xylenes, Total	106				0			65.4	
140 m-Xylene & p-Xylene	106	11.276	11.276	0.000	99	361936	40.0	43.3	
141 n-Butyl acrylate	55	11.555	11.555	0.000	96	202189	20.0	20.2	
142 o-Xylene	106	11.605	11.605	0.000	97	196626	20.0	22.1	
143 Styrene	104	11.626	11.626	0.000	95	313121	20.0	22.1	
144 Bromoform	173	11.784	11.784	0.000	97	79335	20.0	21.7	
145 Isopropylbenzene	105	11.912	11.912	0.000	96	489194	20.0	22.2	
147 Cyclohexanone	55	11.977	11.977	0.000	93	331926	500.0	494.1	
$ 148 4-Bromofluorobenzene (Surr)	95	12.063	12.063	0.000	92	315577	50.0	49.7	
149 1,1,2,2-Tetrachloroethane	83	12.155	12.155	0.000	94	195899	20.0	22.6	
150 Bromobenzene	156	12.177	12.177	0.000	97	126987	20.0	22.0	
151 trans-1,4-Dichloro-2-butene	53	12.177	12.177	0.000	93	134317	50.0	56.9	
152 1,2,3-Trichloropropane	110	12.206	12.206	0.000	84	59757	20.0	22.3	
153 N-Propylbenzene	91	12.248	12.248	0.000	99	586355	20.0	21.9	
154 2-Chlorotoluene	126	12.320	12.320	0.000	97	124799	20.0	21.7	
155 1,3,5-Trimethylbenzene	105	12.384	12.384	0.000	93	462873	20.0	22.2	
156 4-Chlorotoluene	126	12.413	12.413	0.000	98	123081	20.0	22.3	
158 tert-Butylbenzene	134	12.627	12.627	0.000	93	84401	20.0	21.6	
160 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	98	480214	20.0	22.1	
161 sec-Butylbenzene	105	12.792	12.792	0.000	94	589744	20.0	22.4	
162 1,3-Dichlorobenzene	146	12.892	12.892	0.000	98	256284	20.0	22.1	
163 4-Isopropyltoluene	119	12.899	12.899	0.000	97	521827	20.0	22.1	
* 164 1,4-Dichlorobenzene-d4	152	12.949	12.949	0.000	95	379458	50.0	50.0	
165 1,4-Dichlorobenzene	146	12.971	12.971	0.000	93	263368	20.0	22.0	
166 1,2,3-Trimethylbenzene	105	12.978	12.978	0.000	98	516455	20.0	22.0	
167 Benzyl chloride	91	13.042	13.042	0.000	98	398661	20.0	22.6	
168 1,3-Diethylbenzene	119	13.099	13.099	0.000	95	310752	20.0	22.1	
169 p-Diethylbenzene	119	13.178	13.178	0.000	94	327951	20.0	22.3	
170 n-Butylbenzene	92	13.192	13.192	0.000	96	258005	20.0	21.8	
171 1,2-Dichlorobenzene	146	13.228	13.228	0.000	99	275815	20.0	21.9	
172 o-diethylbenzene	119	13.249	13.249	0.000	95	258869	20.0	21.8	
175 1,2-Dibromo-3-Chloropropane	75	13.764	13.764	0.000	86	63483	20.0	22.6	
176 1,3,5-Trichlorobenzene	180	13.900	13.900	0.000	98	221868	20.0	21.9	
177 1,2,4-Trichlorobenzene	180	14.322	14.322	0.000	95	231766	20.0	22.2	
178 2-Ethylhexyl acrylate	55	14.379	14.379	0.000	82	185199	20.0	20.0	
179 Hexachlorobutadiene	225	14.408	14.408	0.000	98	81746	20.0	21.7	
180 Naphthalene	128	14.501	14.501	0.000	97	909659	20.0	22.9	
181 1,2,3-Trichlorobenzene	180	14.644	14.644	0.000	96	240414	20.0	22.4	
182 2-Methylnaphthalene	142	15.259	15.259	0.000	92	511150	20.0	22.8	
S 211 Total Diethylbenzene	1				0			66.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00176	Amount Added:	4.00	Units: uL	
MSV_CCV_CYC_00008	Amount Added:	16.00	Units: uL	
MSV_CCV_VOC#3_00172	Amount Added:	3.20	Units: uL	
MSV_CCV_2CEVE_00168	Amount Added:	4.00	Units: uL	
MSV_CCV_EE_00006	Amount Added:	4.00	Units: uL	
MSV_CCV_GASES_00760	Amount Added:	2.00	Units: uL	
MSV_CCV_OH_Sp_00009	Amount Added:	4.00	Units: uL	
MSV_HP20_ISSS_00129	Amount Added:	1.00	Units: uL	Run Reagent

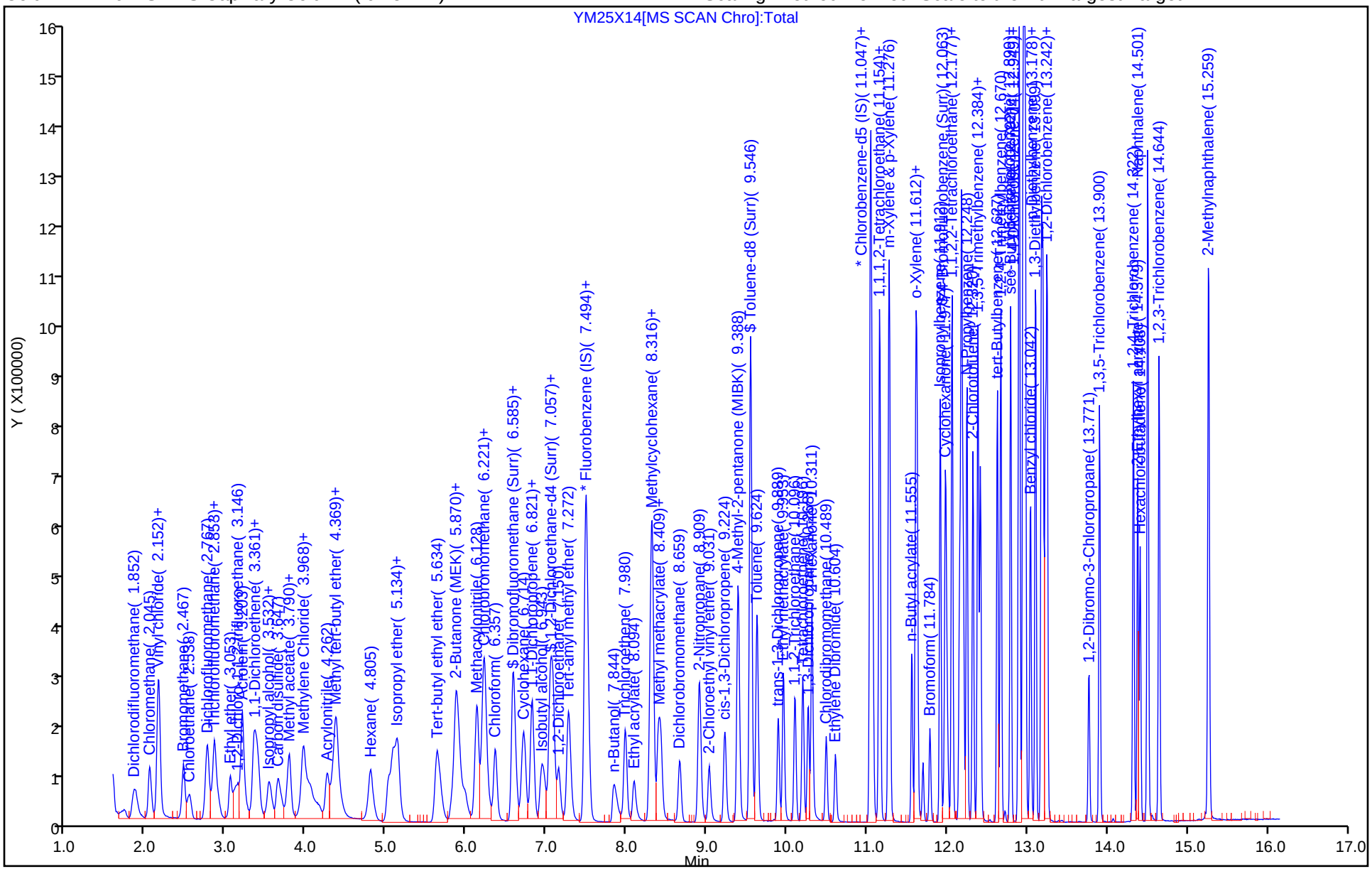
Report Date: 25-Mar-2024 22:25:44 Chrom Revision: 2.3 20-Mar-2024 17:23:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X14.D

Injection Date:	25-Mar-2024 17:56:30	Instrument ID:	9355	Operator ID:	knk41612
Lims ID:	IC v20			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

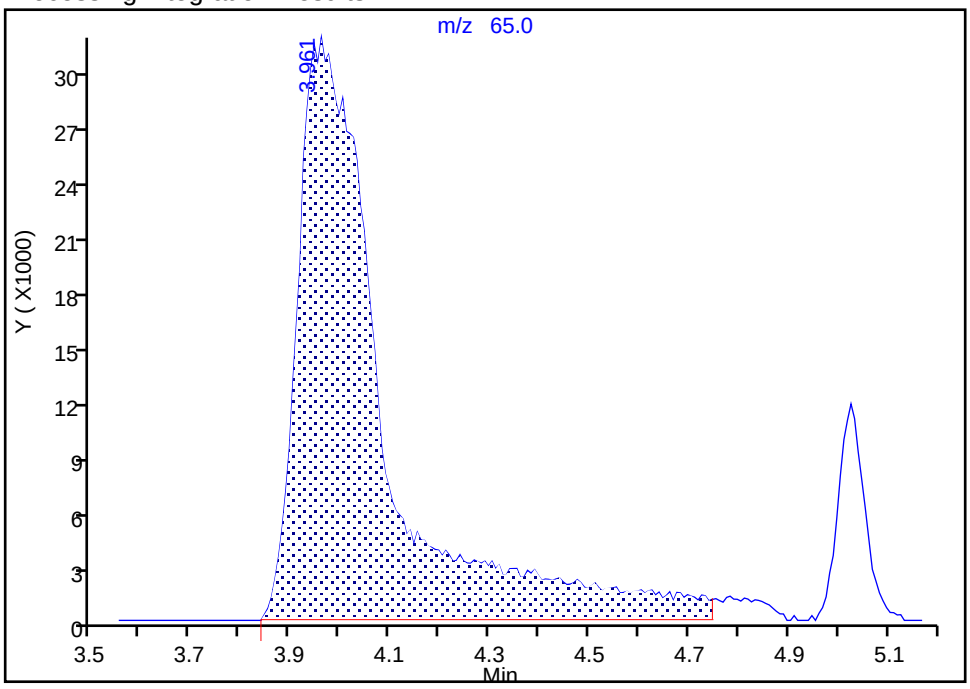
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X14.D
Injection Date: 25-Mar-2024 17:56:30 Instrument ID: 9355
Lims ID: IC v20
Client ID:
Operator ID: knk41612 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

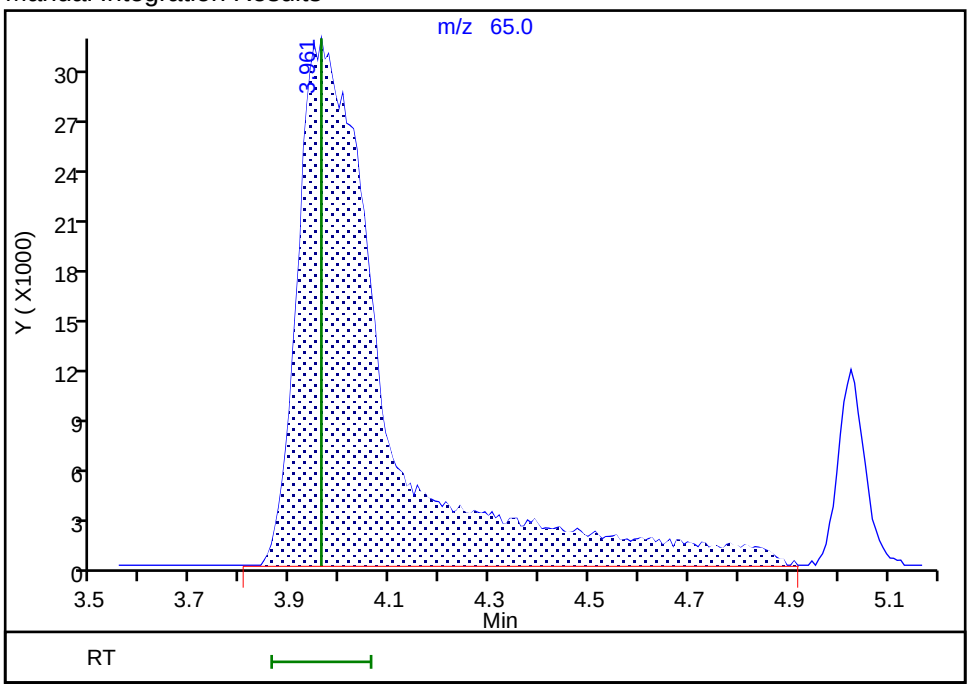
Processing Integration Results

RT: 3.96
Area: 382924
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 3.96
Area: 391329
Amount: 250.0000
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:52:03 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

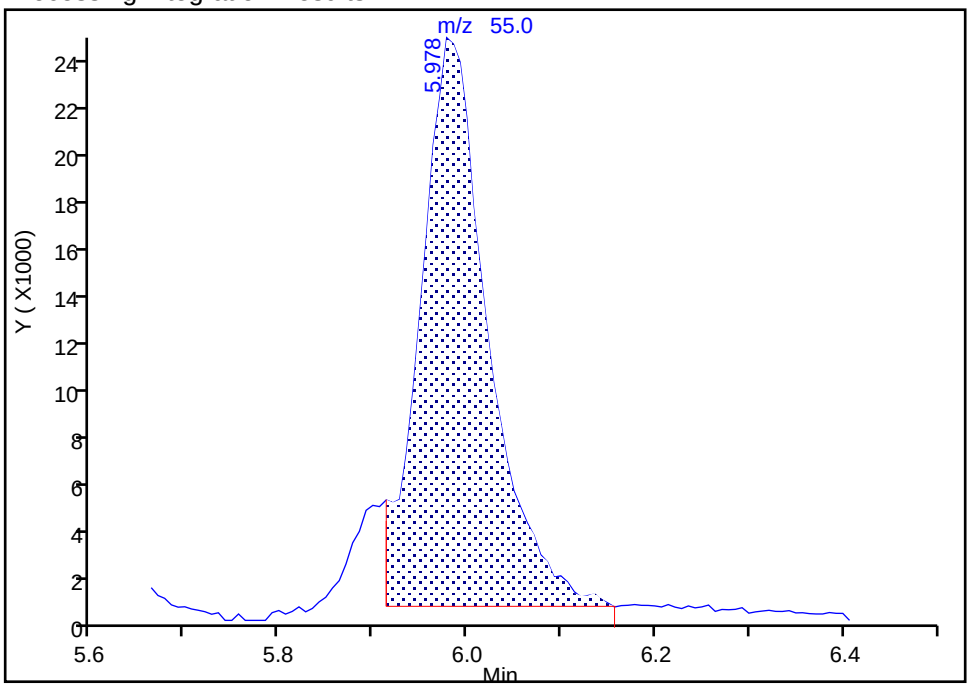
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X14.D				
Injection Date:	25-Mar-2024 17:56:30	Instrument ID:	9355		
Lims ID:	IC v20				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

45 Methyl acrylate, CAS: 96-33-3

Signal: 1

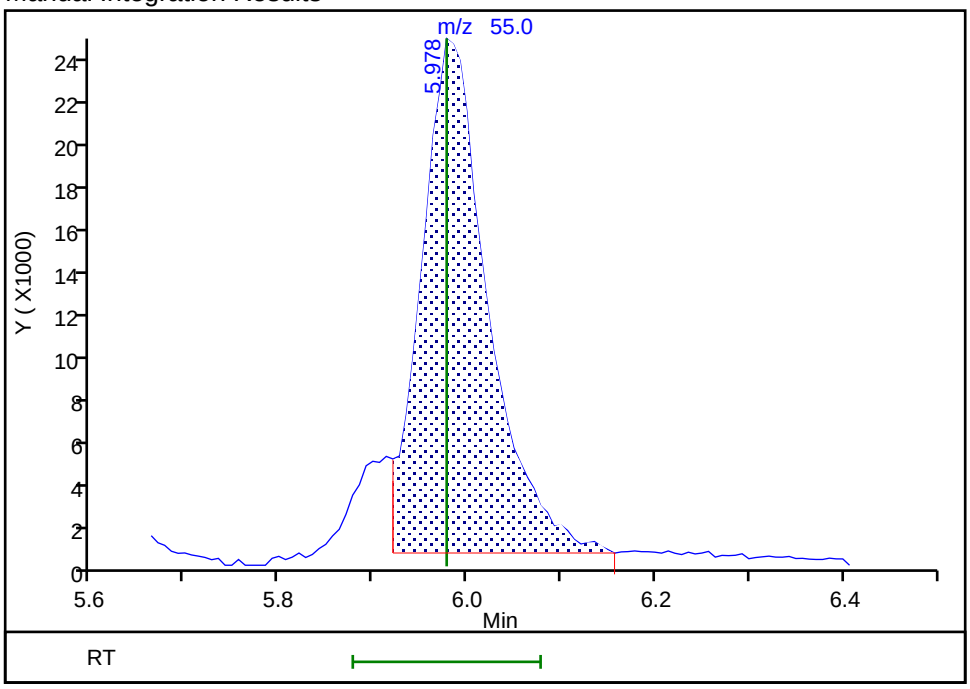
Processing Integration Results

RT: 5.98
Area: 119681
Amount: 18.701875
Amount Units: ug/l



Manual Integration Results

RT: 5.98
Area: 117766
Amount: 19.241267
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:52:16 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

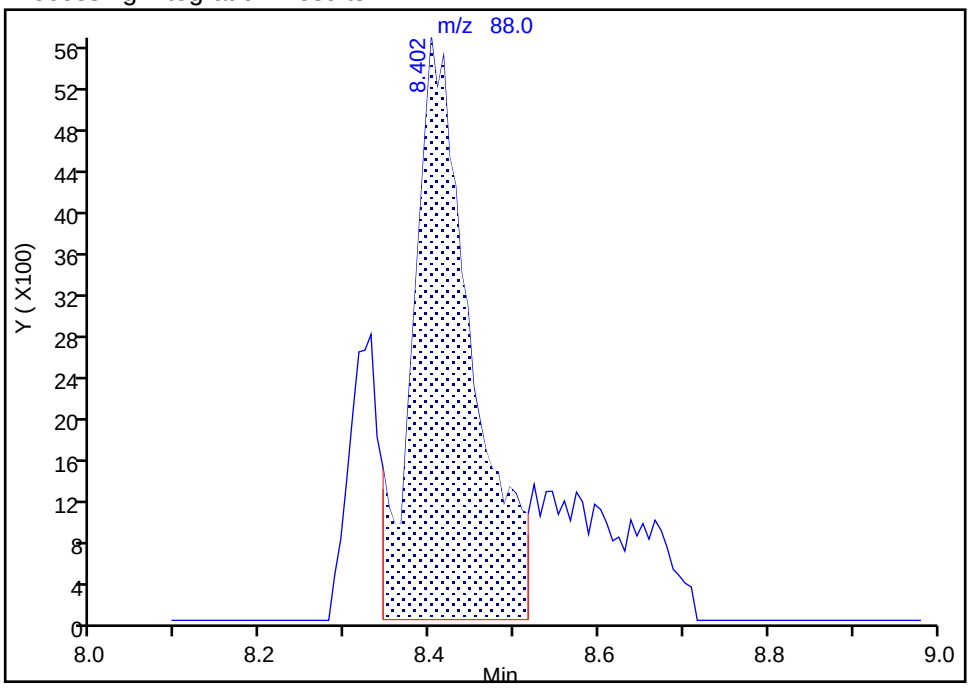
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X14.D
Injection Date: 25-Mar-2024 17:56:30 Instrument ID: 9355
Lims ID: IC v20
Client ID:
Operator ID: knk41612 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

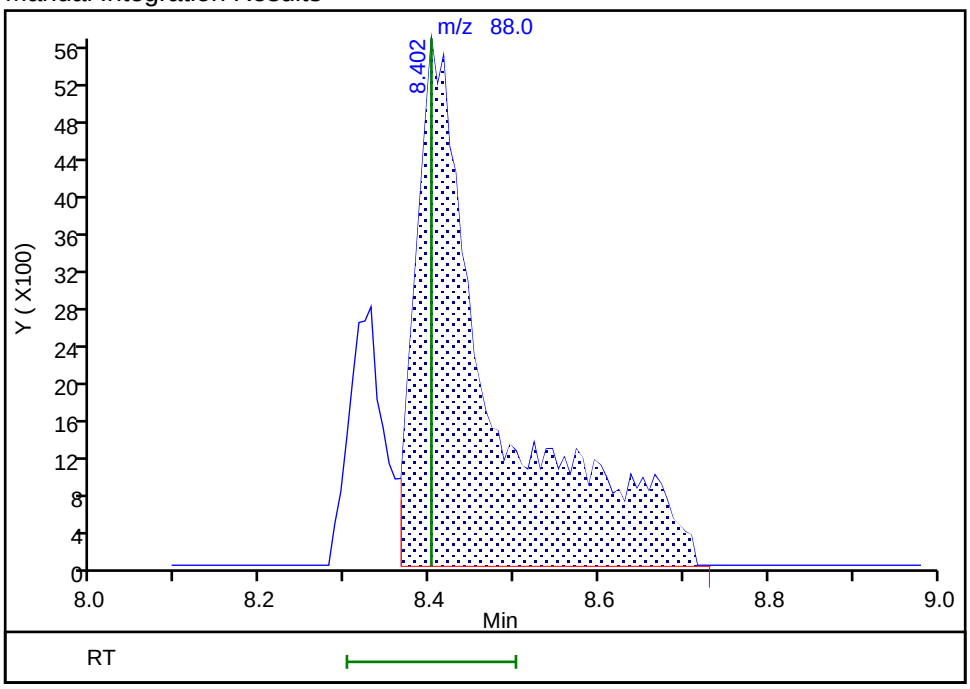
Processing Integration Results

RT: 8.40
Area: 27411
Amount: 266.3722
Amount Units: ug/l



Manual Integration Results

RT: 8.40
Area: 36356
Amount: 283.1569
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:52:37 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X15.D
Lims ID: ICIS v50
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 25-Mar-2024 18:19:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0109476-016
Misc. Info.: IC 50
Operator ID: knk41612 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub95

Method: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 25-Mar-2024 22:25:59 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1656

First Level Reviewer: K4WN Date: 25-Mar-2024 19:44:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.852	1.852	0.000	99	381148	50.0	48.7	M
4 Chloromethane	50	2.038	2.038	0.000	99	394200	50.0	47.1	
6 Vinyl chloride	62	2.138	2.138	0.000	98	373270	50.0	48.1	
5 Butadiene	39	2.145	2.145	0.000	94	340236	50.0	45.3	
8 Bromomethane	94	2.460	2.460	0.000	90	251928	50.0	47.9	
9 Chloroethane	64	2.531	2.531	0.000	100	171407	50.0	47.0	
10 Dichlorofluoromethane	67	2.753	2.753	0.000	97	497747	50.0	45.7	
11 Trichlorofluoromethane	101	2.831	2.831	0.000	97	383161	50.0	48.3	
12 Pentane	43	2.846	2.846	0.000	97	310463	50.0	48.4	
14 Ethyl ether	59	3.046	3.046	0.000	92	175011	50.0	52.3	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.125	3.125	0.000	91	235510	50.0	46.3	
16 Acrolein	56	3.189	3.189	0.000	99	809575	500.0	504.8	
17 1,1-Dichloroethene	96	3.339	3.339	0.000	98	174769	50.0	50.9	
18 Acetone	58	3.346	3.346	0.000	98	88100	100.0	103.9	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.382	3.382	0.000	92	220569	50.0	50.1	
20 Isopropyl alcohol	45	3.496	3.496	0.000	97	242805	250.0	317.4	M
21 Iodomethane	142	3.525	3.525	0.000	98	368044	50.0	50.4	
22 Carbon disulfide	76	3.639	3.639	0.000	99	649929	50.0	49.3	
24 Methyl acetate	43	3.747	3.747	0.000	98	293946	50.0	57.2	
25 3-Chloro-1-propene	41	3.782	3.782	0.000	89	288110	50.0	48.0	
* 26 t-Butyl alcohol-d10 (IS)	65	3.940	3.940	0.000	94	385838	250.0	250.0	M
27 Methylene Chloride	84	3.954	3.954	0.000	92	212598	50.0	51.2	
28 2-Methyl-2-propanol	59	4.068	4.068	0.000	99	477646	250.0	298.0	
29 Acrylonitrile	53	4.247	4.247	0.000	99	393252	125.0	140.6	
30 Methyl tert-butyl ether	73	4.347	4.347	0.000	95	830689	50.0	53.1	
31 trans-1,2-Dichloroethene	96	4.362	4.362	0.000	99	189436	50.0	51.9	
33 Hexane	57	4.791	4.791	0.000	95	257557	50.0	49.1	
34 1,1-Dichloroethane	63	5.019	5.019	0.000	96	348053	50.0	52.7	
36 Isopropyl ether	45	5.077	5.077	0.000	93	701696	50.0	52.9	
37 2-Chloro-1,3-butadiene	53	5.134	5.134	0.000	92	302688	50.0	52.3	

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	5.634	5.634	0.000	98	763290	50.0	53.7	
40 2-Butanone (MEK)	43	5.820	5.820	0.000	100	430824	100.0	94.2	
41 cis-1,2-Dichloroethene	96	5.856	5.856	0.000	82	227100	50.0	52.7	
42 2,2-Dichloropropane	77	5.892	5.892	0.000	88	356879	50.0	51.2	
43 Propionitrile	54	5.892	5.892	0.000	96	421146	250.0	304.4	
45 Methyl acrylate	55	5.970	5.970	0.000	100	343308	50.0	54.9	
46 Methacrylonitrile	67	6.121	6.121	0.000	92	414060	125.0	143.7	
48 Chlorobromomethane	128	6.199	6.199	0.000	94	118747	50.0	54.1	
49 Tetrahydrofuran	71	6.221	6.221	0.000	89	346310	250.0	282.0	
51 Chloroform	83	6.349	6.349	0.000	94	389727	50.0	53.3	
$ 52 Dibromofluoromethane (Surr)	113	6.578	6.578	0.000	93	198615	50.0	49.9	
53 1,1,1-Trichloroethane	97	6.592	6.592	0.000	98	347220	50.0	51.4	
54 Cyclohexane	56	6.707	6.707	0.000	91	369100	50.0	49.7	
55 1,1-Dichloropropene	75	6.814	6.814	0.000	95	265446	50.0	51.8	
56 Carbon tetrachloride	117	6.814	6.814	0.000	97	281303	50.0	52.0	
57 Isobutyl alcohol	41	6.943	6.943	0.000	93	394118	625.0	781.2	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.036	7.036	0.000	98	51731	50.0	51.2	
59 Benzene	78	7.072	7.072	0.000	97	840837	50.0	52.1	
60 1,2-Dichloroethane	62	7.143	7.143	0.000	98	313895	50.0	53.9	
62 Tert-amyl methyl ether	73	7.272	7.272	0.000	98	794360	50.0	55.2	
* 63 Fluorobenzene (IS)	96	7.486	7.486	0.000	99	837226	50.0	50.0	
64 n-Heptane	43	7.508	7.508	0.000	92	279512	50.0	47.1	
66 n-Butanol	56	7.837	7.837	0.000	90	293150	625.0	782.5	
67 Trichloroethene	95	7.980	7.980	0.000	99	218269	50.0	52.6	
68 Ethyl acrylate	55	8.087	8.087	0.000	99	369476	50.0	52.2	
69 Methylcyclohexane	83	8.301	8.301	0.000	92	386108	50.0	50.9	
70 1,2-Dichloropropane	63	8.309	8.309	0.000	86	230463	50.0	54.2	
71 2-ethoxy-2-methyl butane	87	8.323	8.323	0.000	91	376955	50.0	54.0	
72 Methyl methacrylate	69	8.387	8.387	0.000	90	265148	50.0	58.4	
73 1,4-Dioxane	88	8.402	8.402	0.000	38	93834	625.0	741.2	M
74 Dibromomethane	93	8.423	8.423	0.000	96	168522	50.0	55.8	
76 Dichlorobromomethane	83	8.659	8.659	0.000	99	293578	50.0	55.3	
77 2-Nitropropane	41	8.902	8.902	0.000	99	688931	250.0	291.0	
78 2-Chloroethyl vinyl ether	63	9.024	9.024	0.000	92	182170	50.0	56.0	
79 cis-1,3-Dichloropropene	75	9.224	9.224	0.000	95	372756	50.0	55.7	
80 4-Methyl-2-pentanone (MIBK)	43	9.388	9.388	0.000	97	936801	100.0	104.9	
$ 81 Toluene-d8 (Surr)	98	9.546	9.546	0.000	93	827594	50.0	49.9	
82 Toluene	92	9.624	9.624	0.000	98	559462	50.0	53.1	
83 trans-1,3-Dichloropropene	75	9.889	9.889	0.000	94	361531	50.0	57.6	
84 Ethyl methacrylate	69	9.953	9.953	0.000	89	467932	50.0	58.5	
126 1,1,2-Trichloroethane	97	10.096	10.096	0.000	91	241194	50.0	56.2	
127 Tetrachloroethene	166	10.196	10.196	0.000	97	236489	50.0	52.6	
128 1,3-Dichloropropane	76	10.261	10.261	0.000	91	381557	50.0	55.6	
129 2-Hexanone	43	10.311	10.311	0.000	97	660986	100.0	101.1	
132 Chlorodibromomethane	129	10.489	10.489	0.000	90	260643	50.0	58.7	
133 Ethylene Dibromide	107	10.604	10.604	0.000	98	262763	50.0	58.1	
* 134 Chlorobenzene-d5 (IS)	117	11.040	11.040	0.000	85	636078	50.0	50.0	
135 1-Chlorohexane	91	11.054	11.054	0.000	98	293252	50.0	50.4	
136 Chlorobenzene	112	11.069	11.069	0.000	94	658298	50.0	54.3	
137 1,1,1,2-Tetrachloroethane	131	11.154	11.154	0.000	94	278704	50.0	58.1	
138 Ethylbenzene	91	11.154	11.154	0.000	98	1173783	50.0	53.9	
140 m-Xylene & p-Xylene	106	11.276	11.276	0.000	99	923347	100.0	107.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
141 n-Butyl acrylate	55	11.555	11.555	0.000	96	537368	50.0	52.4	
142 o-Xylene	106	11.605	11.605	0.000	97	504494	50.0	55.4	
143 Styrene	104	11.626	11.626	0.000	95	811379	50.0	56.0	
144 Bromoform	173	11.784	11.784	0.000	97	227066	50.0	60.5	
145 Isopropylbenzene	105	11.912	11.912	0.000	96	1240666	50.0	55.1	
147 Cyclohexanone	55	11.977	11.977	0.000	92	420783	625.0	625.0	a
$ 148 4-Bromofluorobenzene (Surr)	95	12.062	12.062	0.000	91	324900	50.0	50.0	
149 1,1,2,2-Tetrachloroethane	83	12.155	12.155	0.000	94	512261	50.0	58.5	
150 Bromobenzene	156	12.177	12.177	0.000	96	326298	50.0	56.1	
151 trans-1,4-Dichloro-2-butene	53	12.177	12.177	0.000	92	369897	125.0	155.3	
152 1,2,3-Trichloropropane	110	12.198	12.198	0.000	83	156592	50.0	58.0	
153 N-Propylbenzene	91	12.248	12.248	0.000	99	1467316	50.0	54.4	
154 2-Chlorotoluene	126	12.320	12.320	0.000	96	319534	50.0	55.0	
155 1,3,5-Trimethylbenzene	105	12.384	12.384	0.000	93	1174928	50.0	55.8	
156 4-Chlorotoluene	126	12.413	12.413	0.000	98	311913	50.0	56.0	
158 tert-Butylbenzene	134	12.627	12.627	0.000	93	225520	50.0	57.3	
160 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	98	1222668	50.0	55.7	
161 sec-Butylbenzene	105	12.792	12.792	0.000	94	1488256	50.0	56.0	
162 1,3-Dichlorobenzene	146	12.892	12.892	0.000	98	646420	50.0	55.2	
163 4-Isopropyltoluene	119	12.899	12.899	0.000	97	1335991	50.0	56.2	
* 164 1,4-Dichlorobenzene-d4	152	12.949	12.949	0.000	94	382835	50.0	50.0	
165 1,4-Dichlorobenzene	146	12.963	12.963	0.000	94	665776	50.0	55.0	
166 1,2,3-Trimethylbenzene	105	12.978	12.978	0.000	98	1340956	50.0	56.7	
167 Benzyl chloride	91	13.035	13.035	0.000	98	1068814	50.0	60.0	
168 1,3-Diethylbenzene	119	13.099	13.099	0.000	95	793475	50.0	56.0	
169 p-Diethylbenzene	119	13.178	13.178	0.000	94	825649	50.0	55.5	
170 n-Butylbenzene	92	13.192	13.192	0.000	97	650560	50.0	54.5	
171 1,2-Dichlorobenzene	146	13.221	13.221	0.000	99	710443	50.0	56.0	
172 o-diethylbenzene	119	13.249	13.249	0.000	95	672358	50.0	56.1	
175 1,2-Dibromo-3-Chloropropane	75	13.764	13.764	0.000	87	173129	50.0	61.1	
176 1,3,5-Trichlorobenzene	180	13.900	13.900	0.000	98	574584	50.0	56.2	
177 1,2,4-Trichlorobenzene	180	14.322	14.322	0.000	94	597150	50.0	56.6	
178 2-Ethylhexyl acrylate	55	14.379	14.379	0.000	81	519725	50.0	55.5	
179 Hexachlorobutadiene	225	14.408	14.408	0.000	97	213897	50.0	56.3	
180 Naphthalene	128	14.501	14.501	0.000	97	2348158	50.0	58.5	
181 1,2,3-Trichlorobenzene	180	14.644	14.644	0.000	96	618325	50.0	57.1	
182 2-Methylnaphthalene	142	15.259	15.259	0.000	92	1380718	50.0	60.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_CCV_VOC#1_00176	Amount Added:	5.00	Units: uL	
MSV_CCV_CYC_00008	Amount Added:	10.00	Units: uL	
MSV_CCV_VOC#3_00172	Amount Added:	4.00	Units: uL	
MSV_CCV_2CEVE_00168	Amount Added:	5.00	Units: uL	
MSV_CCV_EE_00006	Amount Added:	5.00	Units: uL	
MSV_CCV_GASES_00760	Amount Added:	2.50	Units: uL	
MSV_CCV_OH_Sp_00009	Amount Added:	5.00	Units: uL	
MSV_HP20_ISSS_00129	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 25-Mar-2024 22:26:00 Chrom Revision: 2.3 20-Mar-2024 17:23:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X15.D

Injection Date: 25-Mar-2024 18:19:30 Instrument ID: 9355 Operator ID: knk41612

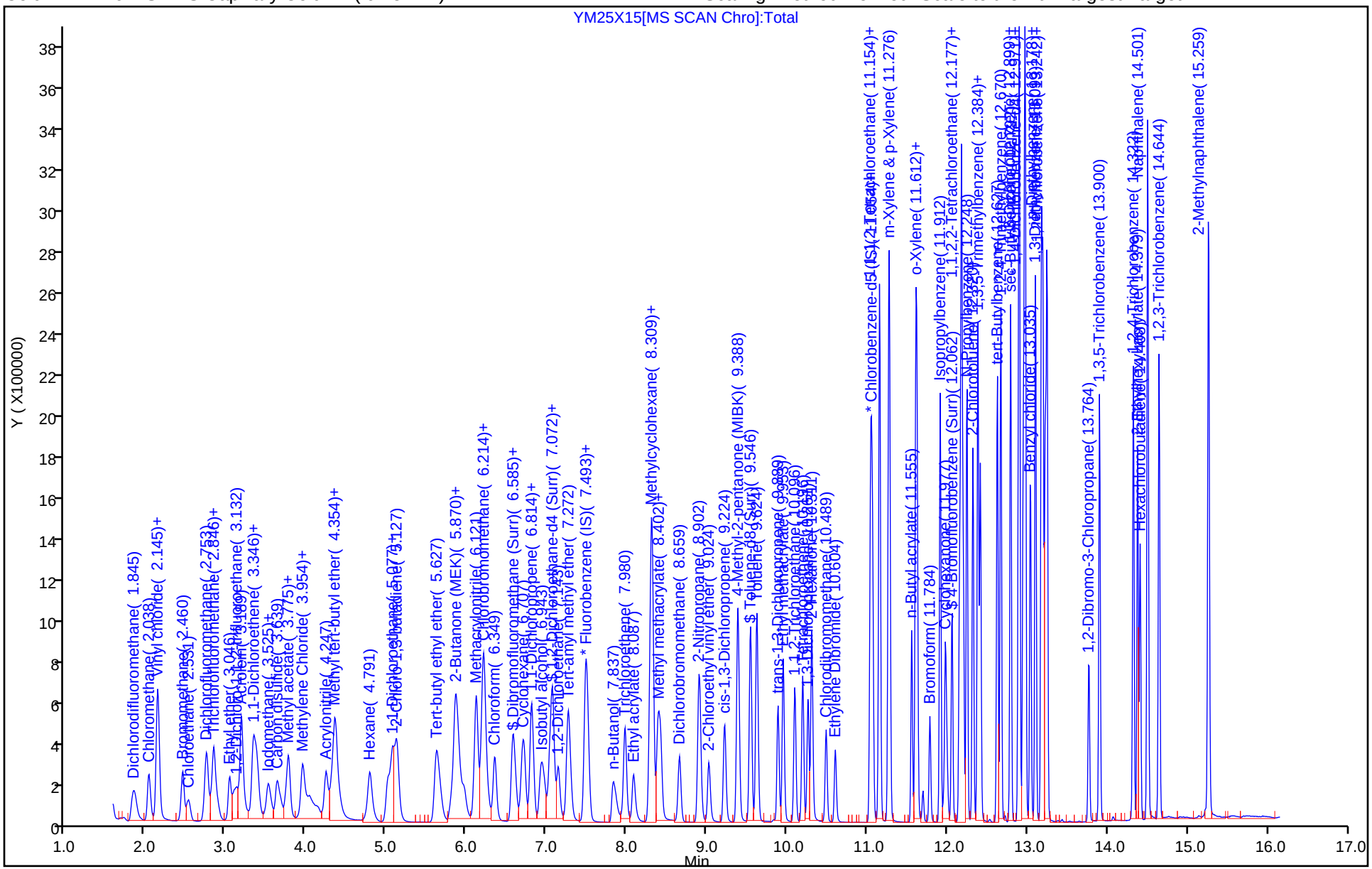
Lims ID: ICIS v50 Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 15

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

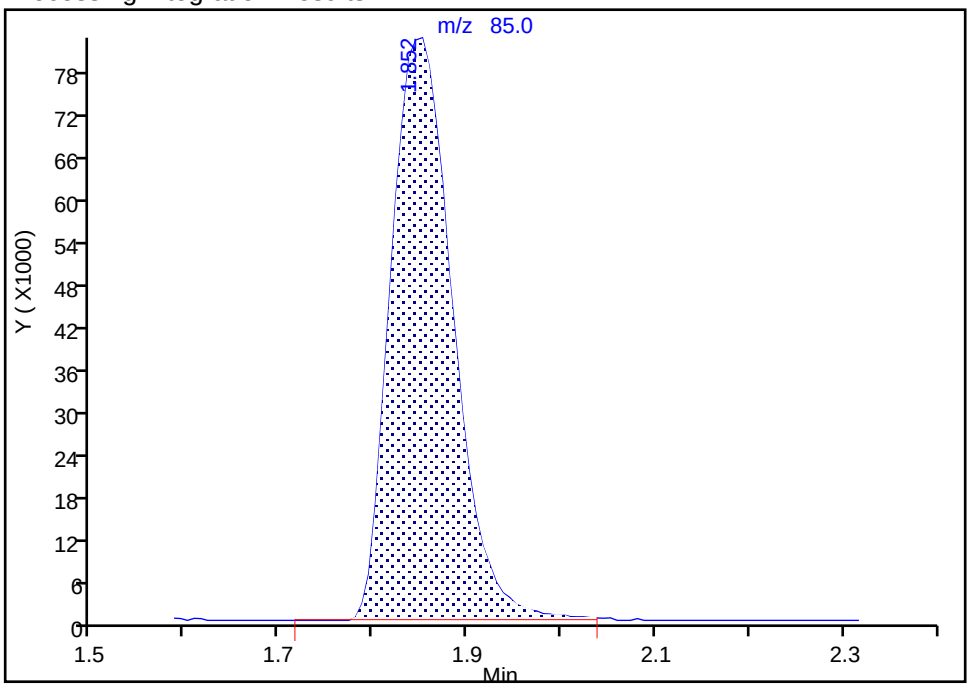
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X15.D
Injection Date: 25-Mar-2024 18:19:30 Instrument ID: 9355
Lims ID: ICIS v50
Client ID:
Operator ID: knk41612 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

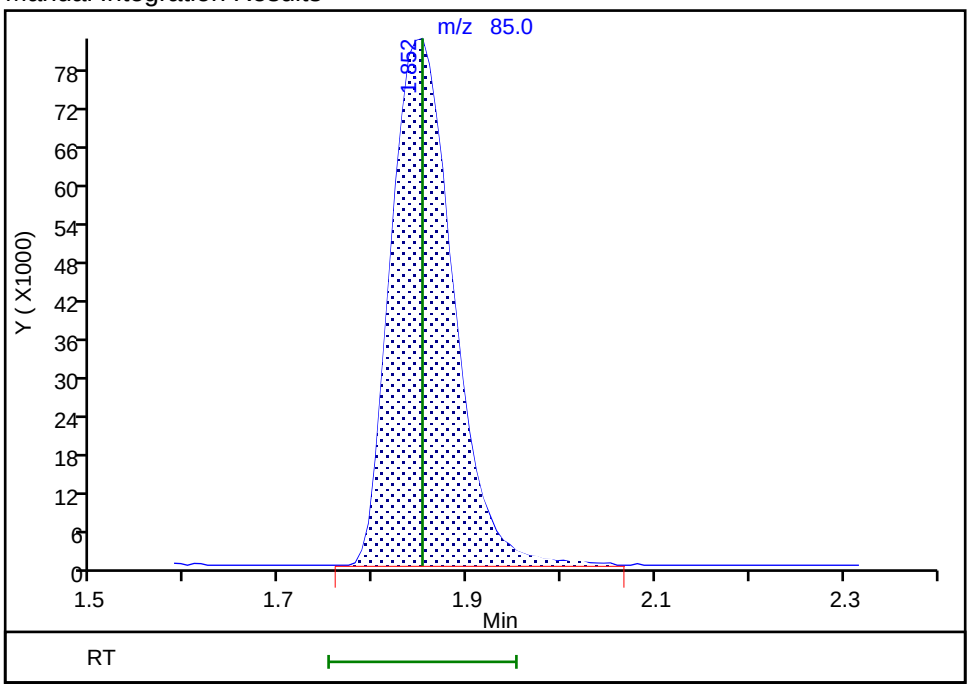
Processing Integration Results

RT: 1.85
Area: 380862
Amount: 52.786663
Amount Units: ug/l



Manual Integration Results

RT: 1.85
Area: 381148
Amount: 48.679022
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:53:11 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

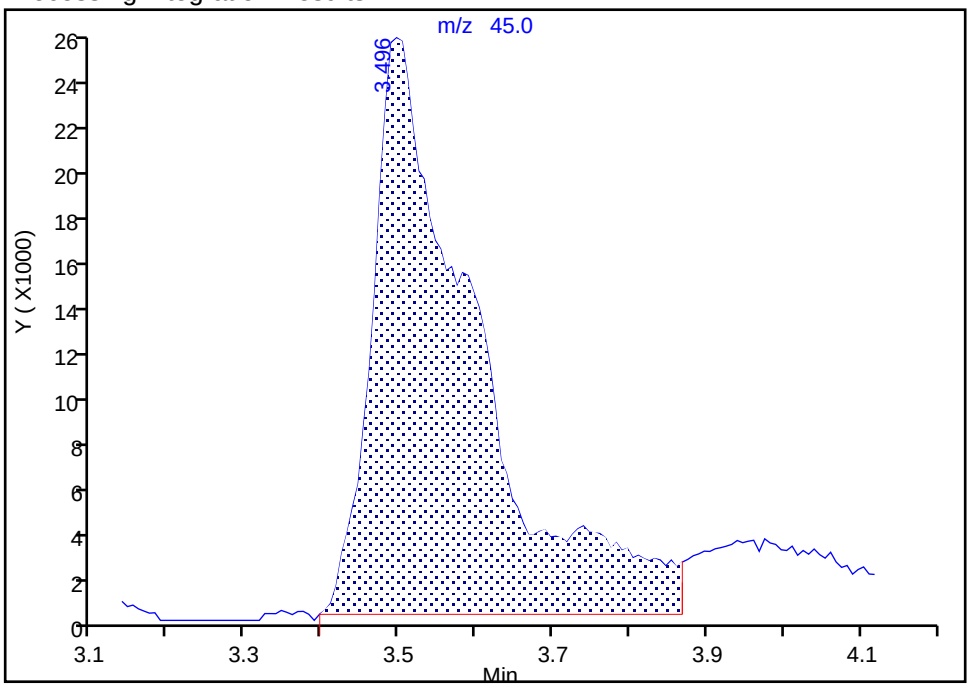
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X15.D
Injection Date: 25-Mar-2024 18:19:30 Instrument ID: 9355
Lims ID: ICIS v50
Client ID:
Operator ID: knk41612 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

20 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

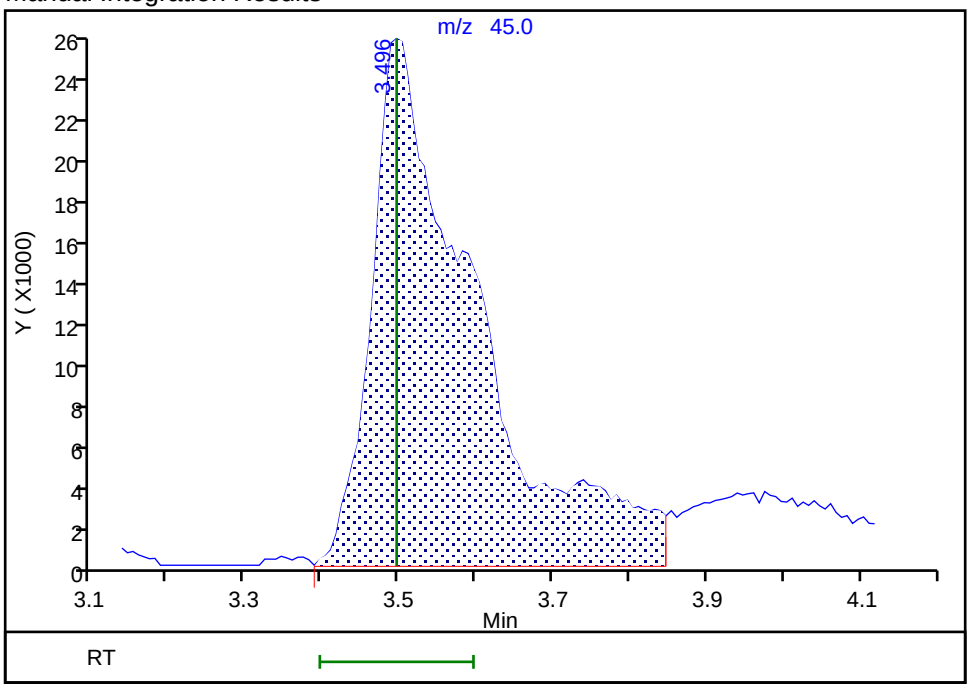
Processing Integration Results

RT: 3.50
Area: 238929
Amount: 300.5265
Amount Units: ug/l



Manual Integration Results

RT: 3.50
Area: 242805
Amount: 317.3513
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 22:02:21 -04:00:00 (UTC)
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

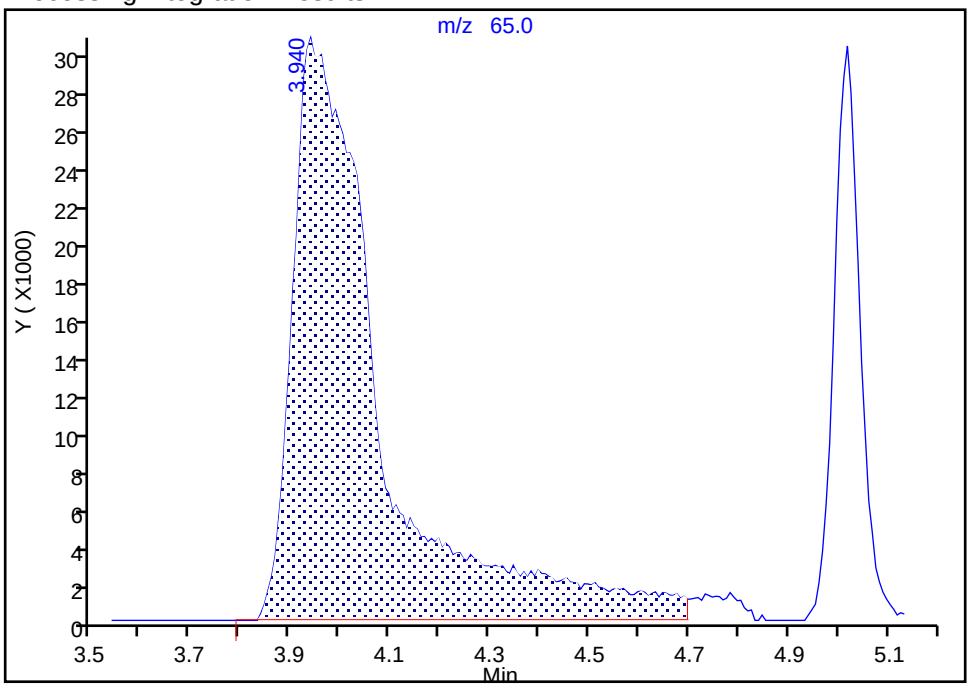
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X15.D
Injection Date: 25-Mar-2024 18:19:30 Instrument ID: 9355
Lims ID: ICIS v50
Client ID:
Operator ID: knk41612 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

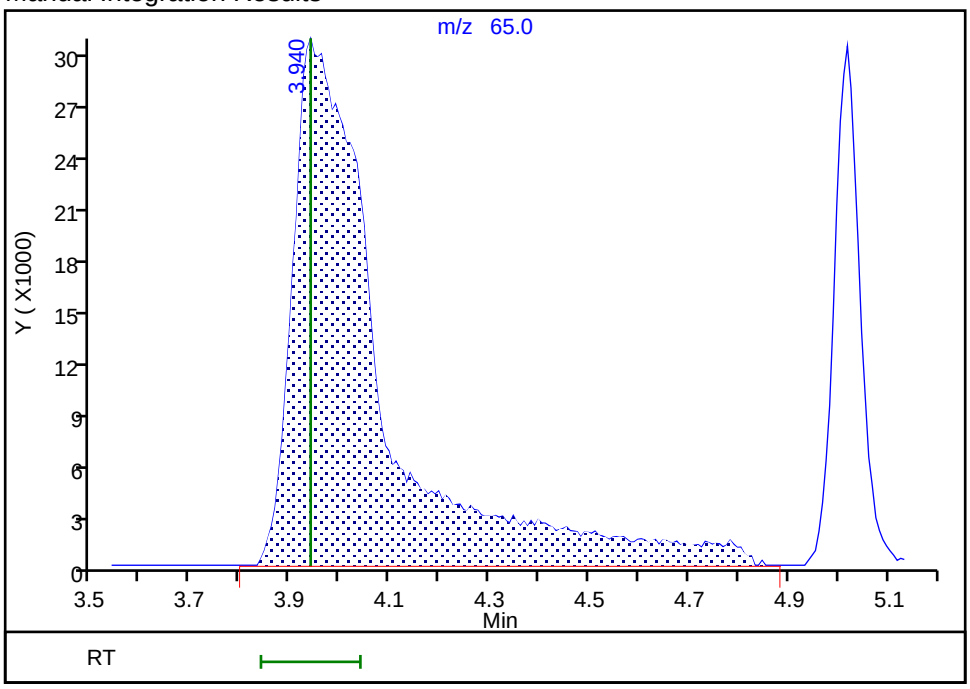
Processing Integration Results

RT: 3.94
Area: 377277
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 3.94
Area: 385838
Amount: 250.0000
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:53:29 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

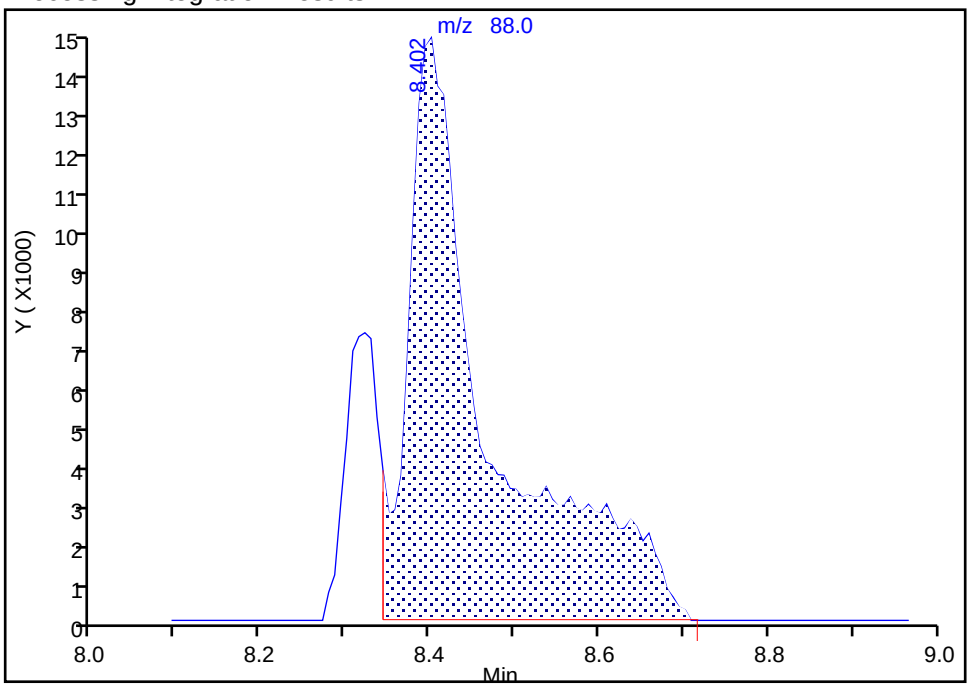
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X15.D				
Injection Date:	25-Mar-2024 18:19:30	Instrument ID:	9355		
Lims ID:	ICIS v50				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

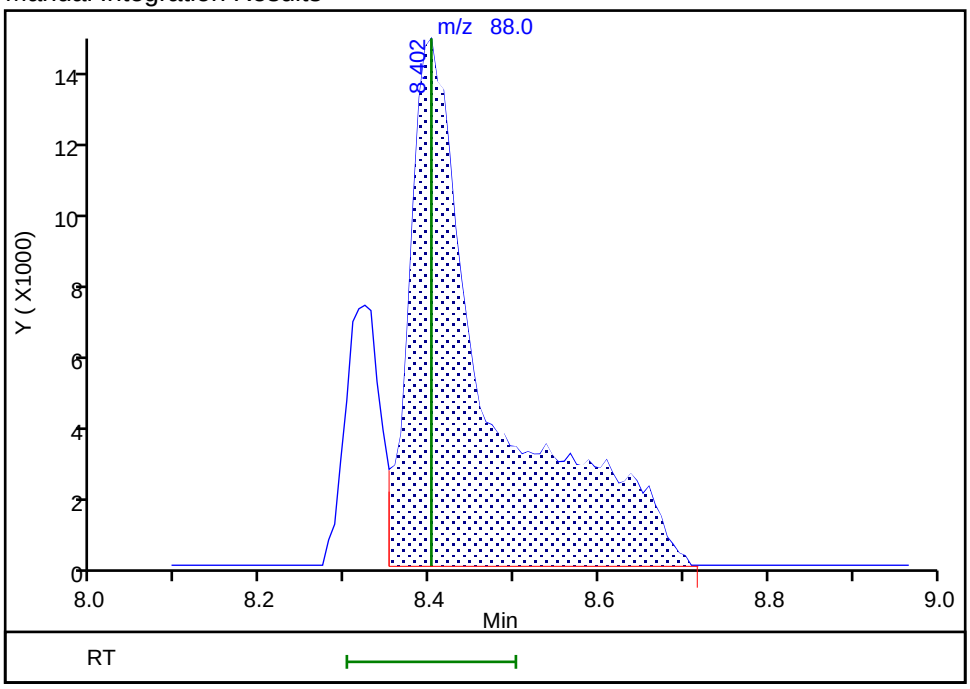
Processing Integration Results

RT: 8.40
Area: 95388
Amount: 899.8364
Amount Units: ug/l



Manual Integration Results

RT: 8.40
Area: 93834
Amount: 741.2220
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:53:49 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

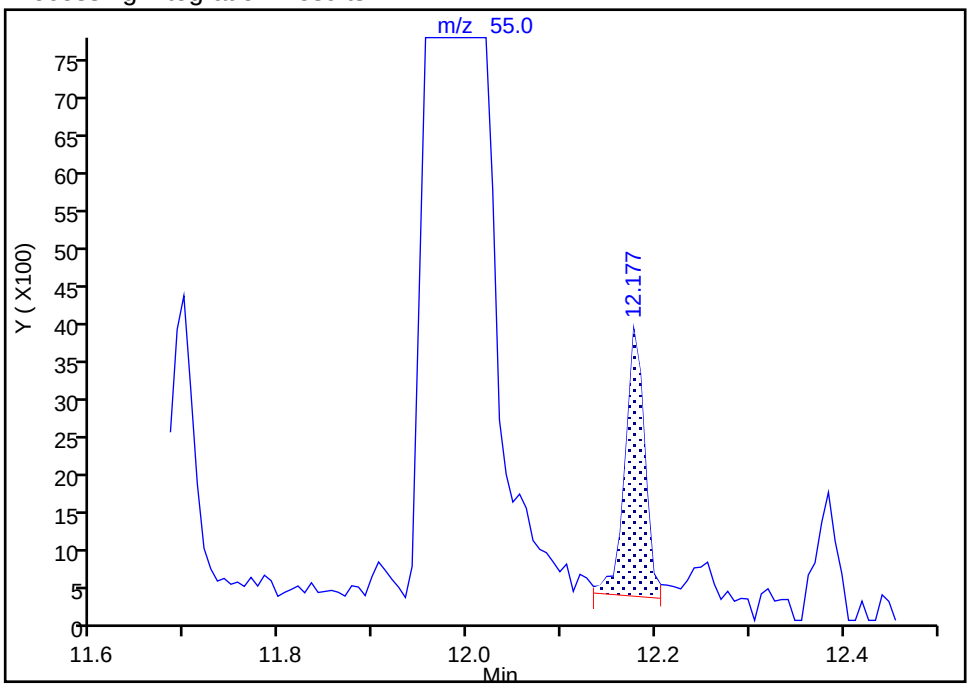
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X15.D
Injection Date: 25-Mar-2024 18:19:30 Instrument ID: 9355
Lims ID: ICIS v50
Client ID:
Operator ID: knk41612 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

147 Cyclohexanone, CAS: 108-94-1

Signal: 1

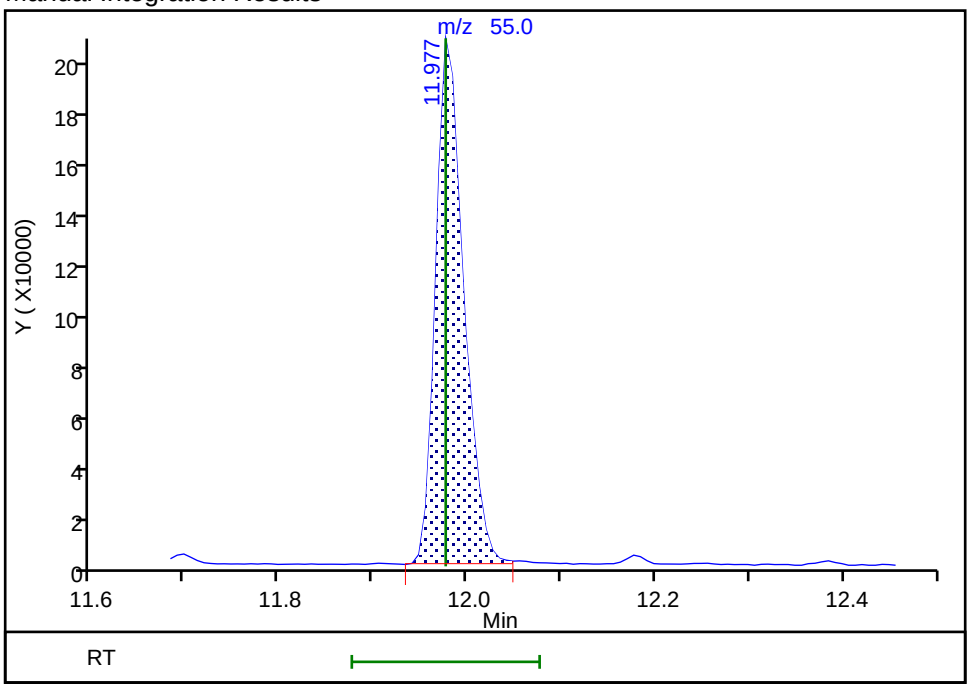
Processing Integration Results

RT: 12.18
Area: 5257
Amount: 159.1773
Amount Units: ug/l



Manual Integration Results

RT: 11.98
Area: 420783
Amount: 625.0247
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:43:44 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X16.D
Lims ID: IC v100
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 25-Mar-2024 18:41:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0109476-017
Misc. Info.: IC 100
Operator ID: knk41612 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub95

Method: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 25-Mar-2024 22:26:18 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1656

First Level Reviewer: K4WN Date: 25-Mar-2024 19:56:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.852	1.852	0.000	99	862784	100.0	109.4	M
4 Chloromethane	50	2.038	2.038	0.000	99	880203	100.0	104.4	
6 Vinyl chloride	62	2.145	2.138	0.007	98	832179	100.0	106.5	
5 Butadiene	39	2.152	2.145	0.007	95	771025	100.0	102.0	
8 Bromomethane	94	2.460	2.460	0.000	90	550736	100.0	104.0	
9 Chloroethane	64	2.531	2.531	0.000	100	384106	100.0	104.5	
10 Dichlorofluoromethane	67	2.760	2.753	0.007	97	1101593	100.0	100.5	
11 Trichlorofluoromethane	101	2.831	2.831	0.000	96	874630	100.0	109.5	
12 Pentane	43	2.853	2.846	0.007	96	662538	100.0	102.6	
14 Ethyl ether	59	3.046	3.046	0.000	92	347591	100.0	103.2	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.117	3.125	-0.008	91	509932	100.0	99.5	
16 Acrolein	56	3.189	3.189	0.000	99	1720466	999.9	1049.7	
17 1,1-Dichloroethene	96	3.339	3.339	0.000	98	362735	100.0	104.8	
18 Acetone	58	3.346	3.346	0.000	100	182790	200.0	210.9	M
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.382	3.382	0.000	92	474655	100.0	107.1	
20 Isopropyl alcohol	45	3.496	3.496	0.000	99	368175	500.0	470.9	M
21 Iodomethane	142	3.532	3.525	0.007	98	765467	100.0	104.2	
22 Carbon disulfide	76	3.639	3.639	0.000	99	1399358	100.0	105.3	
24 Methyl acetate	43	3.747	3.747	0.000	98	533374	100.0	103.0	M
25 3-Chloro-1-propene	41	3.782	3.782	0.000	89	586532	100.0	97.0	
* 26 t-Butyl alcohol-d10 (IS)	65	3.954	3.940	0.014	97	394299	250.0	250.0	M
27 Methylene Chloride	84	3.961	3.954	0.007	92	435085	100.0	104.0	
28 2-Methyl-2-propanol	59	4.076	4.068	0.008	100	794109	500.0	484.8	
29 Acrylonitrile	53	4.247	4.247	0.000	98	741234	250.0	263.2	
30 Methyl tert-butyl ether	73	4.347	4.347	0.000	97	1610177	100.0	102.2	
31 trans-1,2-Dichloroethene	96	4.362	4.362	0.000	99	387251	100.0	105.3	
33 Hexane	57	4.791	4.791	0.000	94	547702	100.0	103.6	
34 1,1-Dichloroethane	63	5.019	5.019	0.000	96	684192	100.0	102.9	
36 Isopropyl ether	45	5.084	5.077	0.007	93	1391542	100.0	104.2	
37 2-Chloro-1,3-butadiene	53	5.134	5.134	0.000	92	609342	100.0	104.5	

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	5.634	5.634	0.000	98	1491267	100.0	104.2	
40 2-Butanone (MEK)	43	5.820	5.820	0.000	100	880646	200.0	191.2	
41 cis-1,2-Dichloroethene	96	5.863	5.856	0.007	82	449668	100.0	103.6	
42 2,2-Dichloropropane	77	5.892	5.892	0.000	89	740332	100.0	105.4	
43 Propionitrile	54	5.892	5.892	0.000	99	741822	500.0	524.6	
45 Methyl acrylate	55	5.970	5.970	0.000	100	657117	100.0	104.3	M
46 Methacrylonitrile	67	6.121	6.121	0.000	92	768251	250.0	264.9	
S 47 1,2-Dichloroethene, Total	100				0			208.9	
48 Chlorobromomethane	128	6.206	6.199	0.007	94	234049	100.0	105.8	
49 Tetrahydrofuran	71	6.221	6.221	0.000	89	639419	500.0	509.5	
51 Chloroform	83	6.356	6.349	0.007	93	742420	100.0	104.0	
$ 52 Dibromofluoromethane (Surr)	113	6.571	6.578	-0.007	93	198761	50.0	49.6	
53 1,1,1-Trichloroethane	97	6.600	6.592	0.008	98	714513	100.0	105.1	
54 Cyclohexane	56	6.714	6.707	0.007	91	788674	100.0	105.4	
55 1,1-Dichloropropene	75	6.814	6.814	0.000	96	550682	100.0	106.7	
56 Carbon tetrachloride	117	6.821	6.814	0.007	97	589319	100.0	108.1	
57 Isobutyl alcohol	41	6.943	6.943	0.000	94	662445	1250.0	1284.8	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.043	7.036	0.007	84	50753	50.0	49.9	
59 Benzene	78	7.079	7.072	0.007	96	1696460	100.0	104.3	
60 1,2-Dichloroethane	62	7.143	7.143	0.000	98	615152	100.0	104.9	
62 Tert-amyl methyl ether	73	7.272	7.272	0.000	98	1524424	100.0	105.2	
* 63 Fluorobenzene (IS)	96	7.486	7.486	0.000	99	843096	50.0	50.0	
64 n-Heptane	43	7.515	7.508	0.007	92	599162	100.0	100.4	
66 n-Butanol	56	7.837	7.837	0.000	89	512728	1250.0	1339.2	
67 Trichloroethene	95	7.980	7.980	0.000	99	445011	100.0	106.5	
68 Ethyl acrylate	55	8.087	8.087	0.000	100	753518	100.0	105.7	
69 Methylcyclohexane	83	8.301	8.301	0.000	90	820000	100.0	107.4	
70 1,2-Dichloropropane	63	8.308	8.309	-0.001	85	456704	100.0	106.6	
71 2-ethoxy-2-methyl butane	87	8.323	8.323	0.000	91	734918	100.0	104.6	
72 Methyl methacrylate	69	8.387	8.387	0.000	89	496057	100.0	108.5	
73 1,4-Dioxane	88	8.401	8.402	-0.001	58	165362	1250.0	1278.2	M
74 Dibromomethane	93	8.423	8.423	0.000	96	328300	100.0	108.0	
76 Dichlorobromomethane	83	8.659	8.659	0.000	99	581530	100.0	108.7	
77 2-Nitropropane	41	8.909	8.902	0.007	98	1240101	500.0	512.6	
78 2-Chloroethyl vinyl ether	63	9.024	9.024	0.000	92	344436	100.0	105.1	
79 cis-1,3-Dichloropropene	75	9.224	9.224	0.000	95	739808	100.0	109.8	
80 4-Methyl-2-pentanone (MIBK)	43	9.388	9.388	0.000	97	1833685	200.0	204.0	
$ 81 Toluene-d8 (Surr)	98	9.545	9.546	-0.001	94	840555	50.0	50.2	
82 Toluene	92	9.624	9.624	0.000	98	1121258	100.0	105.4	
83 trans-1,3-Dichloropropene	75	9.889	9.889	0.000	94	697349	100.0	109.9	
84 Ethyl methacrylate	69	9.953	9.953	0.000	89	852723	100.0	105.5	
S 125 1,3-Dichloropropene, Total	100				0			219.7	
126 1,1,2-Trichloroethane	97	10.096	10.096	0.000	91	450273	100.0	103.8	
127 Tetrachloroethene	166	10.196	10.196	0.000	97	471702	100.0	103.7	
128 1,3-Dichloropropane	76	10.261	10.261	-0.001	91	728945	100.0	105.1	
129 2-Hexanone	43	10.311	10.311	0.000	97	1284247	200.0	194.5	
132 Chlorodibromomethane	129	10.489	10.489	0.000	89	504488	100.0	112.4	
133 Ethylene Dibromide	107	10.604	10.604	0.000	99	492811	100.0	107.8	
* 134 Chlorobenzene-d5 (IS)	117	11.040	11.040	0.000	85	642721	50.0	50.0	
135 1-Chlorohexane	91	11.054	11.054	0.000	98	582274	100.0	99.0	
136 Chlorobenzene	112	11.068	11.069	-0.001	94	1275223	100.0	104.2	
137 1,1,1,2-Tetrachloroethane	131	11.154	11.154	0.000	95	529292	100.0	109.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
138 Ethylbenzene	91	11.154	11.154	0.000	98	2265443	100.0	102.9	
S 139 Xylenes, Total	106				0			312.0	
140 m-Xylene & p-Xylene	106	11.276	11.276	0.000	99	1787973	200.0	206.6	
141 n-Butyl acrylate	55	11.555	11.555	0.000	96	1049098	100.0	101.3	
142 o-Xylene	106	11.605	11.605	0.000	97	970262	100.0	105.4	
143 Styrene	104	11.626	11.626	0.000	95	1529439	100.0	104.4	
144 Bromoform	173	11.784	11.784	0.000	97	425719	100.0	112.2	
145 Isopropylbenzene	105	11.912	11.912	0.000	96	2380757	100.0	104.5	
147 Cyclohexanone	55	11.977	11.977	0.000	93	873243	1250.0	1232.2	
$ 148 4-Bromofluorobenzene (Surr)	95	12.062	12.062	0.000	91	322090	50.0	49.0	
149 1,1,2,2-Tetrachloroethane	83	12.155	12.155	0.000	94	925406	100.0	106.6	
150 Bromobenzene	156	12.177	12.177	0.000	96	615848	100.0	106.8	
151 trans-1,4-Dichloro-2-butene	53	12.177	12.177	0.000	91	668550	250.0	283.2	
152 1,2,3-Trichloropropane	110	12.198	12.198	0.000	83	280372	100.0	104.8	
153 N-Propylbenzene	91	12.248	12.248	0.000	99	2826935	100.0	105.8	
154 2-Chlorotoluene	126	12.320	12.320	0.000	97	607927	100.0	105.6	
155 1,3,5-Trimethylbenzene	105	12.384	12.384	0.000	94	2268605	100.0	108.7	
156 4-Chlorotoluene	126	12.413	12.413	0.000	98	583936	100.0	105.7	
158 tert-Butylbenzene	134	12.627	12.627	0.000	93	439038	100.0	112.5	
160 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	98	2333990	100.0	107.3	
161 sec-Butylbenzene	105	12.792	12.792	0.000	94	2885172	100.0	109.5	
162 1,3-Dichlorobenzene	146	12.892	12.892	0.000	98	1204247	100.0	103.7	
163 4-Isopropyltoluene	119	12.899	12.899	0.000	97	2571927	100.0	109.1	
* 164 1,4-Dichlorobenzene-d4	152	12.949	12.949	0.000	94	379428	50.0	50.0	
165 1,4-Dichlorobenzene	146	12.963	12.963	0.000	93	1224297	100.0	102.1	
166 1,2,3-Trimethylbenzene	105	12.978	12.978	0.000	98	2558885	100.0	109.2	
167 Benzyl chloride	91	13.035	13.035	0.000	99	1946122	100.0	110.2	
168 1,3-Diethylbenzene	119	13.099	13.099	0.000	95	1509566	100.0	107.5	
169 p-Diethylbenzene	119	13.178	13.178	0.000	94	1556857	100.0	105.7	
170 n-Butylbenzene	92	13.192	13.192	0.000	97	1247694	100.0	105.6	
171 1,2-Dichlorobenzene	146	13.221	13.221	0.000	98	1308219	100.0	104.1	
172 o-diethylbenzene	119	13.249	13.249	0.000	95	1287671	100.0	108.4	
175 1,2-Dibromo-3-Chloropropane	75	13.764	13.764	0.000	87	306492	100.0	109.1	
176 1,3,5-Trichlorobenzene	180	13.900	13.900	0.000	98	1071312	100.0	105.7	
177 1,2,4-Trichlorobenzene	180	14.322	14.322	0.000	94	1114540	100.0	106.6	
178 2-Ethylhexyl acrylate	55	14.379	14.379	0.000	81	1044622	100.0	112.6	
179 Hexachlorobutadiene	225	14.408	14.408	0.000	98	414145	100.0	109.9	
180 Naphthalene	128	14.501	14.501	0.000	97	4205472	100.0	105.8	
181 1,2,3-Trichlorobenzene	180	14.644	14.644	0.000	96	1142089	100.0	106.5	
182 2-Methylnaphthalene	142	15.259	15.259	0.000	92	2522506	100.0	112.3	
S 211 Total Diethylbenzene	1				0			321.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00176	Amount Added:	5.00	Units: uL	
MSV_CCV_CYC_00008	Amount Added:	10.00	Units: uL	
MSV_CCV_VOC#3_00172	Amount Added:	4.00	Units: uL	
MSV_CCV_2CEVE_00168	Amount Added:	5.00	Units: uL	
MSV_CCV_EE_00006	Amount Added:	5.00	Units: uL	
MSV_CCV_GASES_00760	Amount Added:	2.50	Units: uL	
MSV_CCV_OH_Sp_00009	Amount Added:	5.00	Units: uL	
MSV_HP20_ISSS_00129	Amount Added:	1.00	Units: uL	Run Reagent

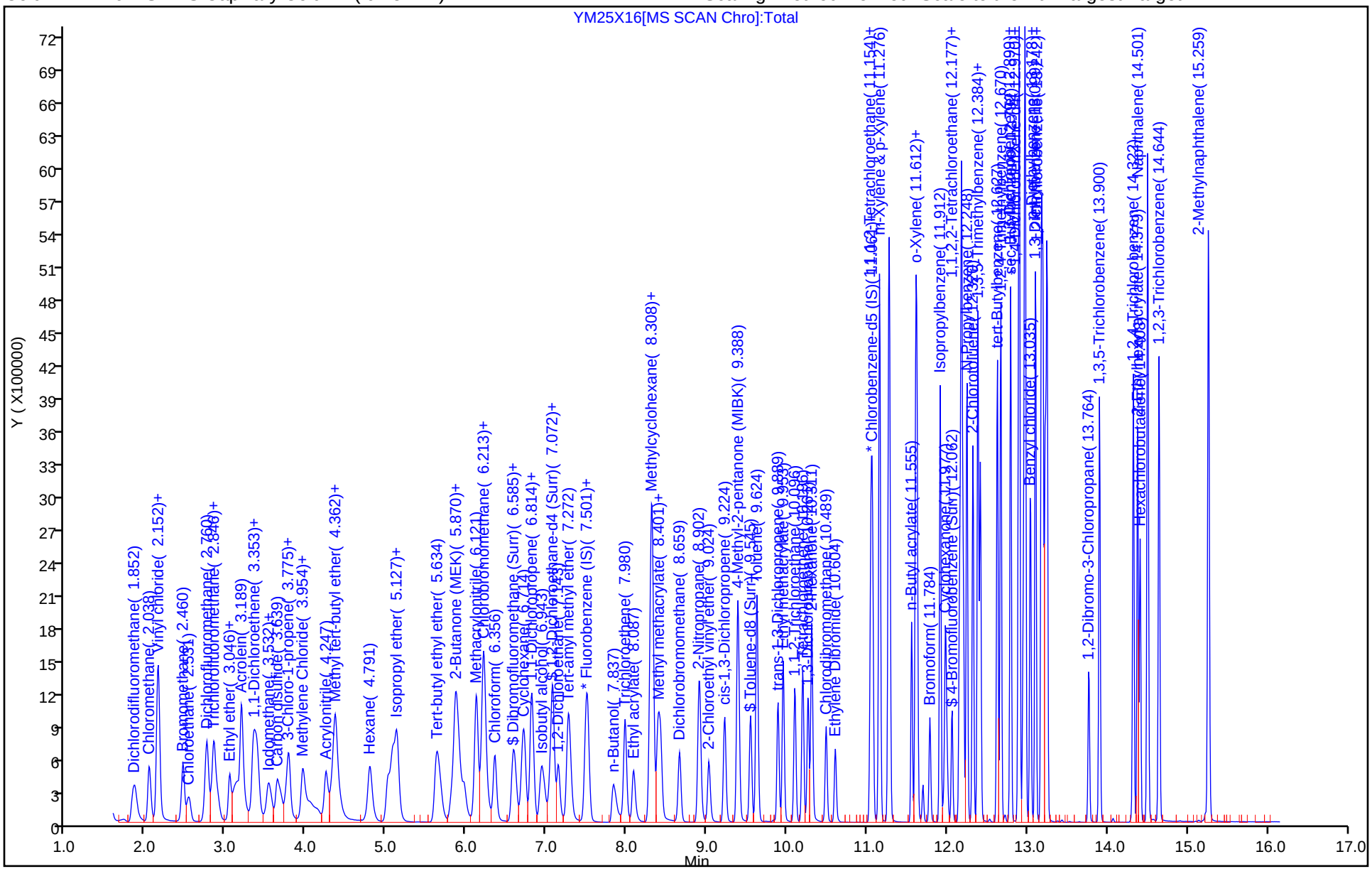
Report Date: 25-Mar-2024 22:26:19 Chrom Revision: 2.3 20-Mar-2024 17:23:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X16.D

Injection Date:	25-Mar-2024 18:41:30	Instrument ID:	9355	Operator ID:	knk41612
Lims ID:	IC v100			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

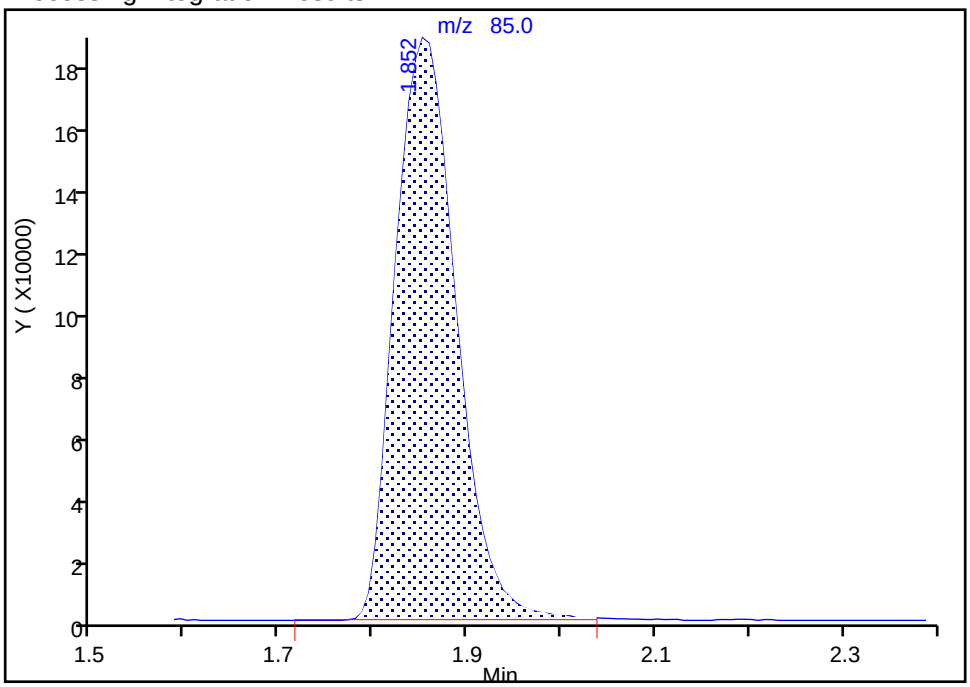
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X16.D
Injection Date: 25-Mar-2024 18:41:30 Instrument ID: 9355
Lims ID: IC v100
Client ID:
Operator ID: knk41612 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

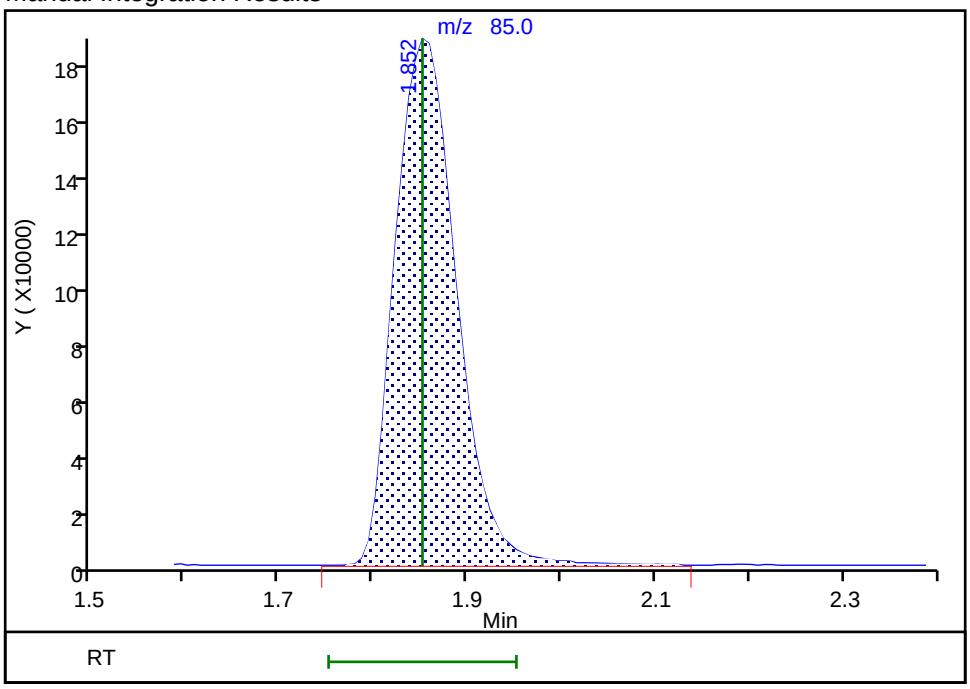
Processing Integration Results

RT: 1.85
Area: 860607
Amount: 118.4344
Amount Units: ug/l



Manual Integration Results

RT: 1.85
Area: 862784
Amount: 109.4249
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:54:20 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

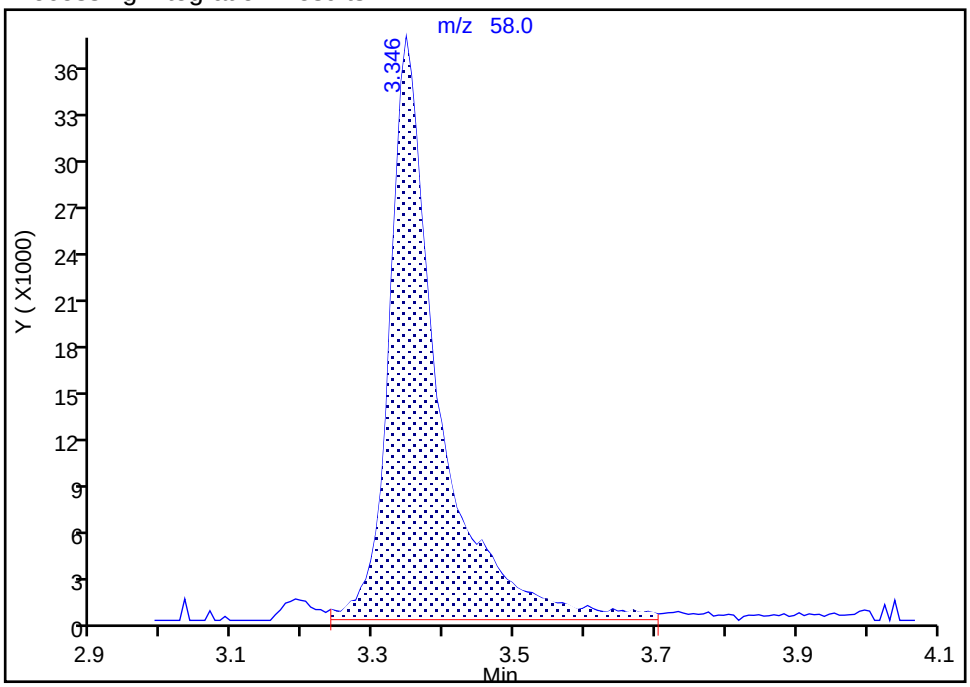
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X16.D
Injection Date: 25-Mar-2024 18:41:30 Instrument ID: 9355
Lims ID: IC v100
Client ID:
Operator ID: knk41612 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

18 Acetone, CAS: 67-64-1

Signal: 1

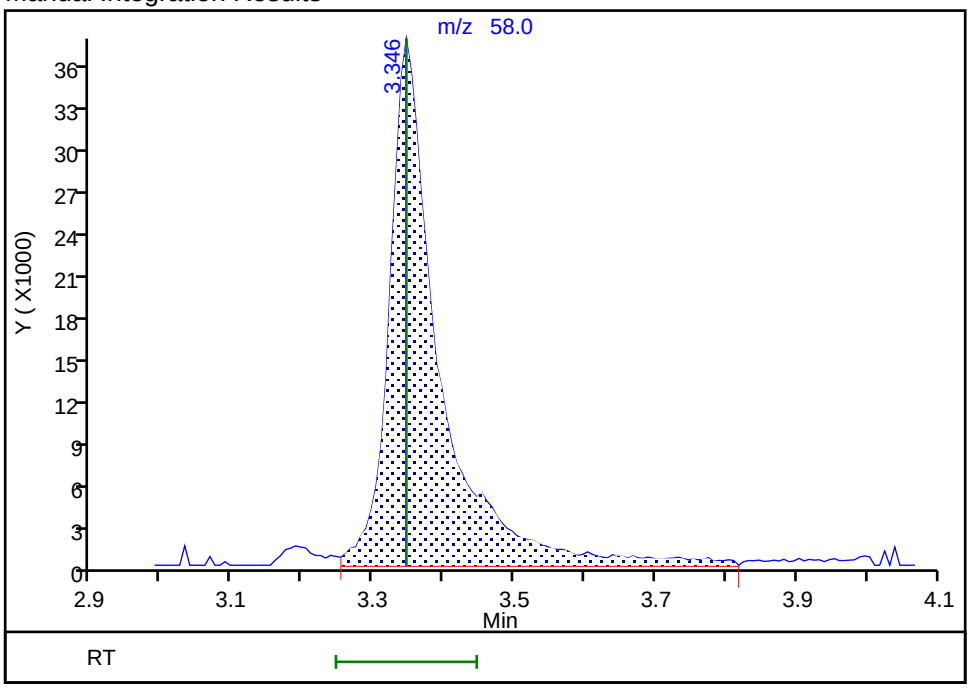
Processing Integration Results

RT: 3.35
Area: 180679
Amount: 214.9021
Amount Units: ug/l



Manual Integration Results

RT: 3.35
Area: 182790
Amount: 210.8930
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:54:51 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

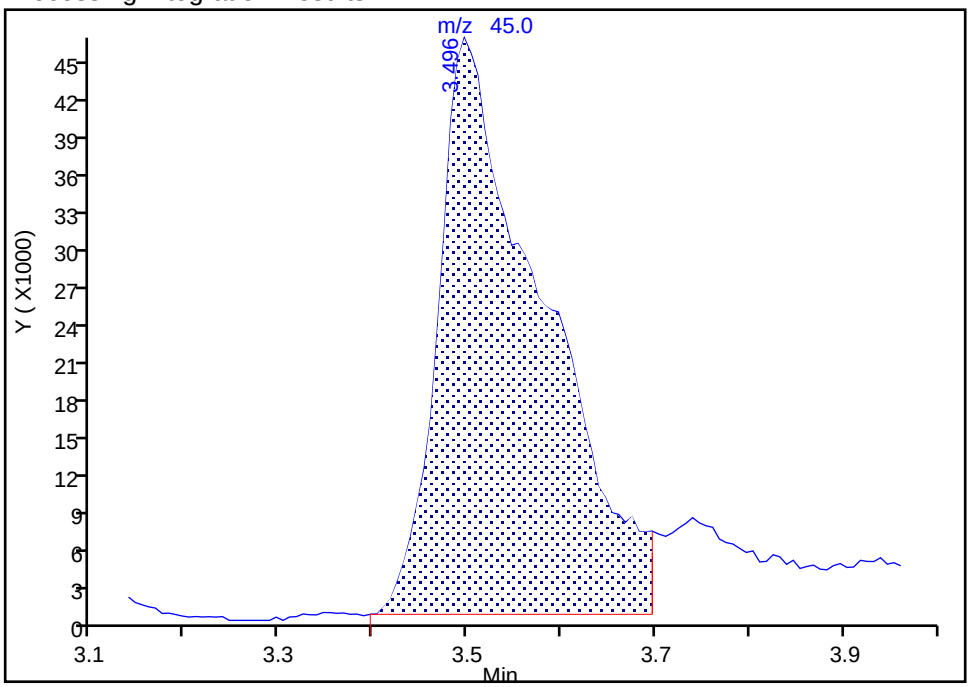
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X16.D				
Injection Date:	25-Mar-2024 18:41:30	Instrument ID:	9355		
Lims ID:	IC v100				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

20 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

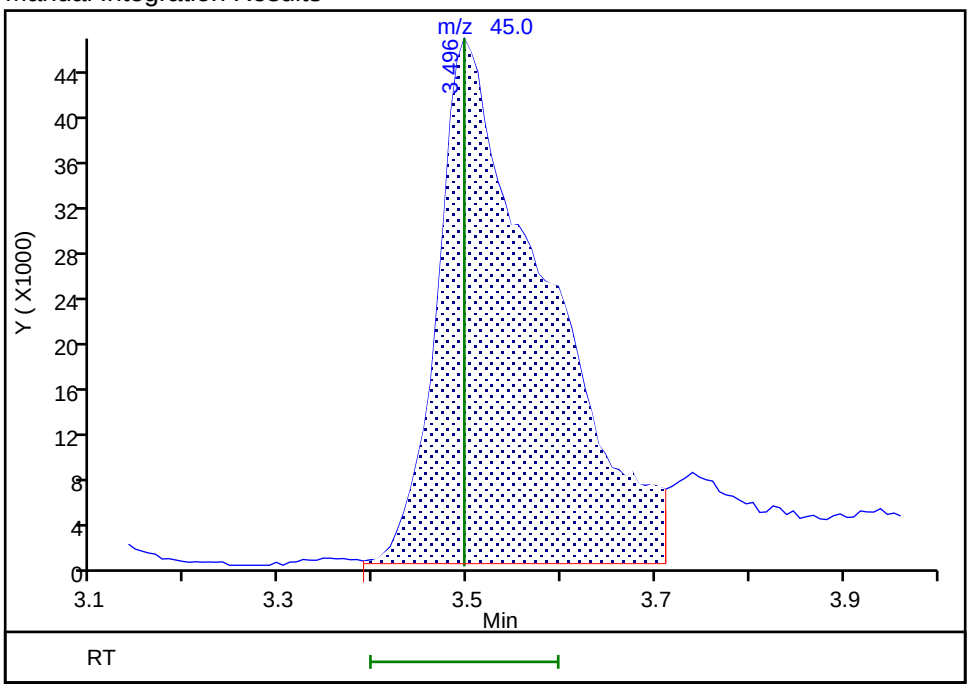
Processing Integration Results

RT: 3.50
Area: 355739
Amount: 439.9023
Amount Units: ug/l



Manual Integration Results

RT: 3.50
Area: 368175
Amount: 470.8865
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 22:02:48 -04:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

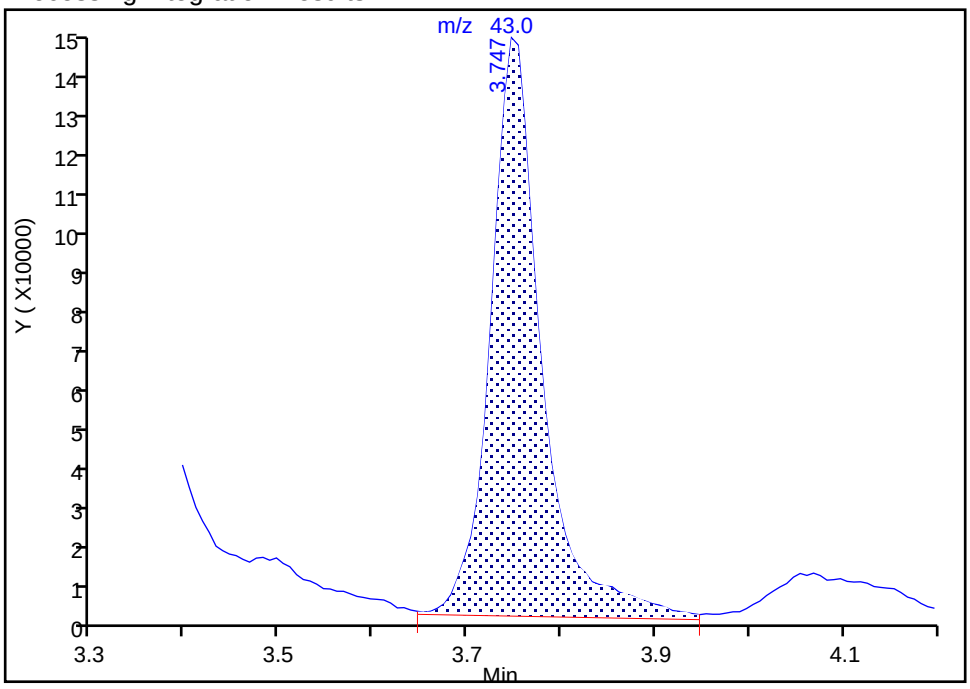
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X16.D
Injection Date: 25-Mar-2024 18:41:30 Instrument ID: 9355
Lims ID: IC v100
Client ID:
Operator ID: knk41612 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

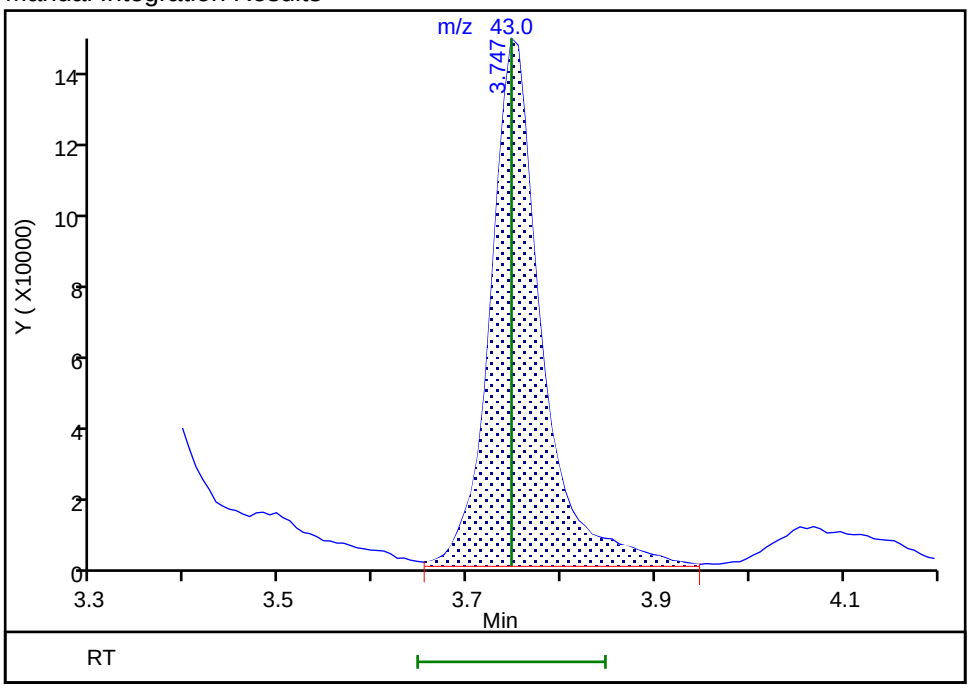
Processing Integration Results

RT: 3.75
Area: 542688
Amount: 102.1533
Amount Units: ug/l



Manual Integration Results

RT: 3.75
Area: 533374
Amount: 103.0489
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:55:13 -04:00:00 (UTC)
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

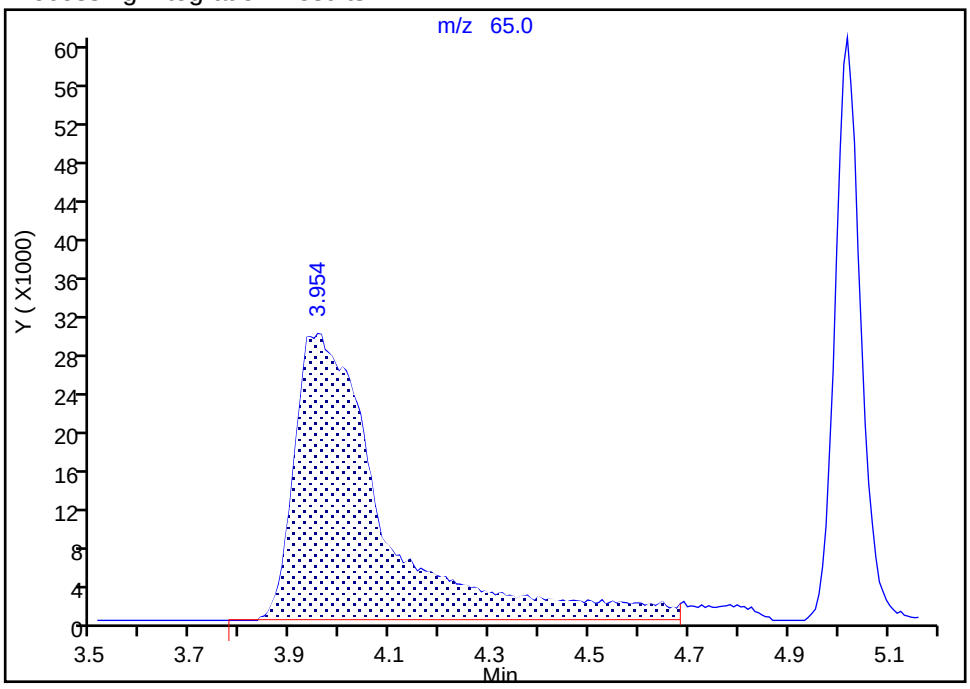
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X16.D
Injection Date: 25-Mar-2024 18:41:30 Instrument ID: 9355
Lims ID: IC v100
Client ID:
Operator ID: knk41612 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

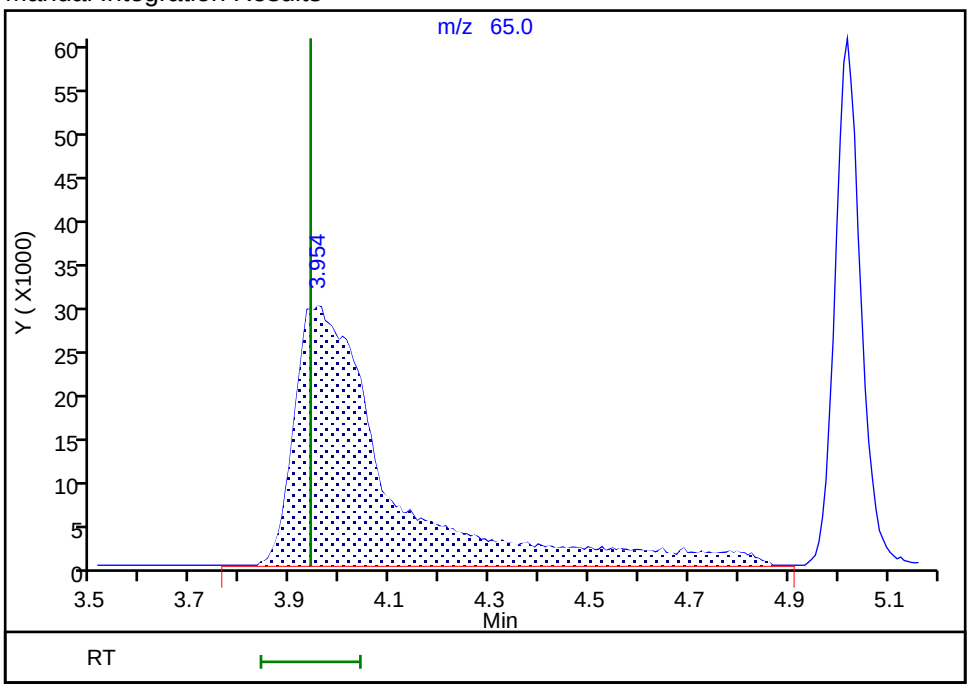
Processing Integration Results

RT: 3.95
Area: 380406
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 3.95
Area: 394299
Amount: 250.0000
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:55:19 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

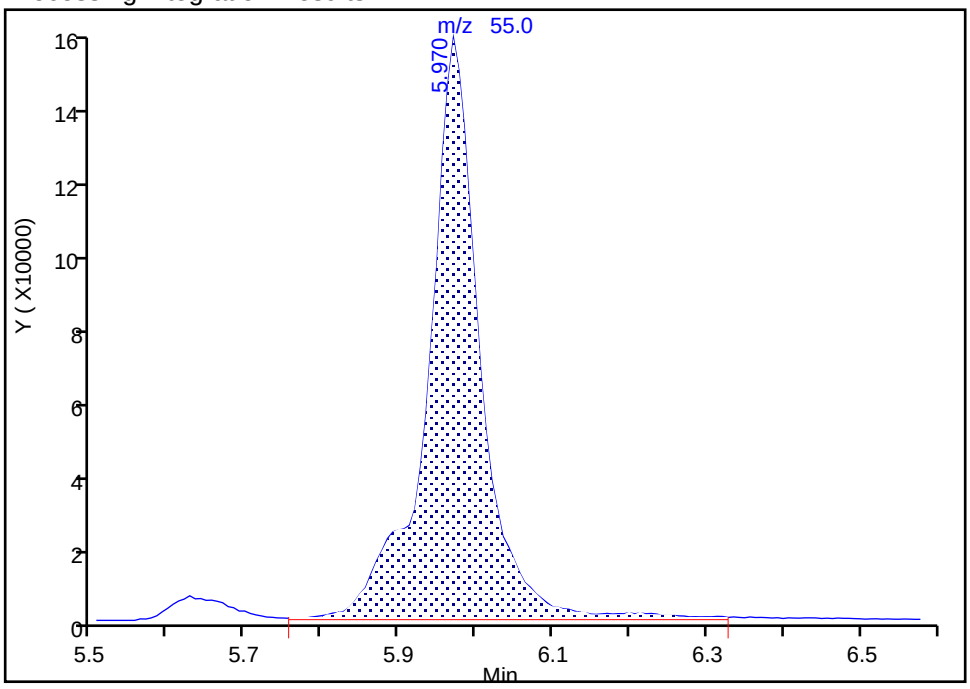
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X16.D
Injection Date: 25-Mar-2024 18:41:30 Instrument ID: 9355
Lims ID: IC v100
Client ID:
Operator ID: knk41612 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

45 Methyl acrylate, CAS: 96-33-3

Signal: 1

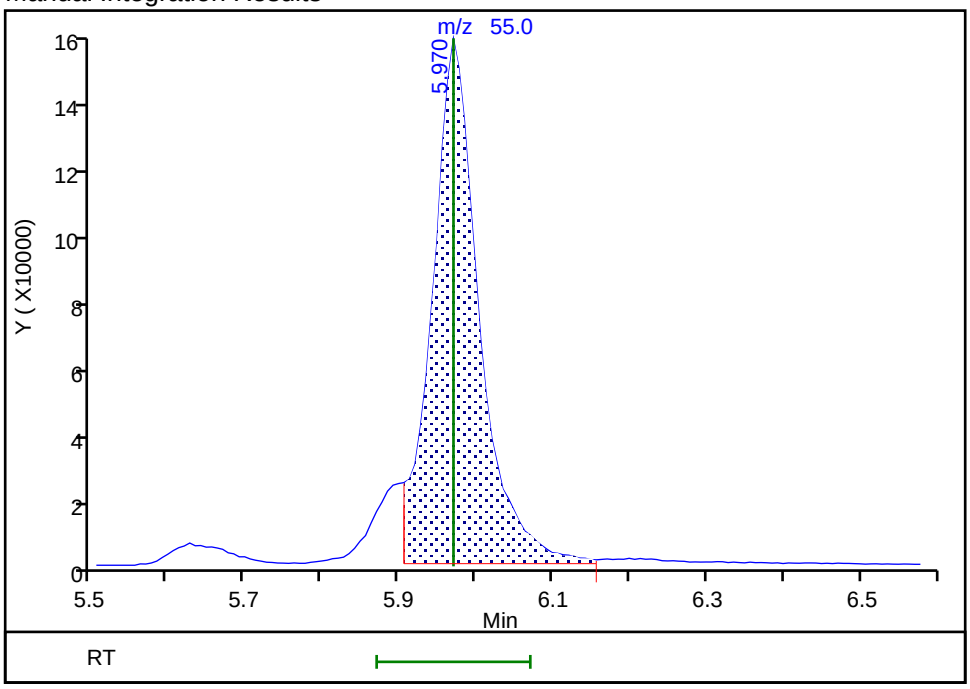
Processing Integration Results

RT: 5.97
Area: 733460
Amount: 111.5896
Amount Units: ug/l



Manual Integration Results

RT: 5.97
Area: 657117
Amount: 104.3073
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:55:50 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

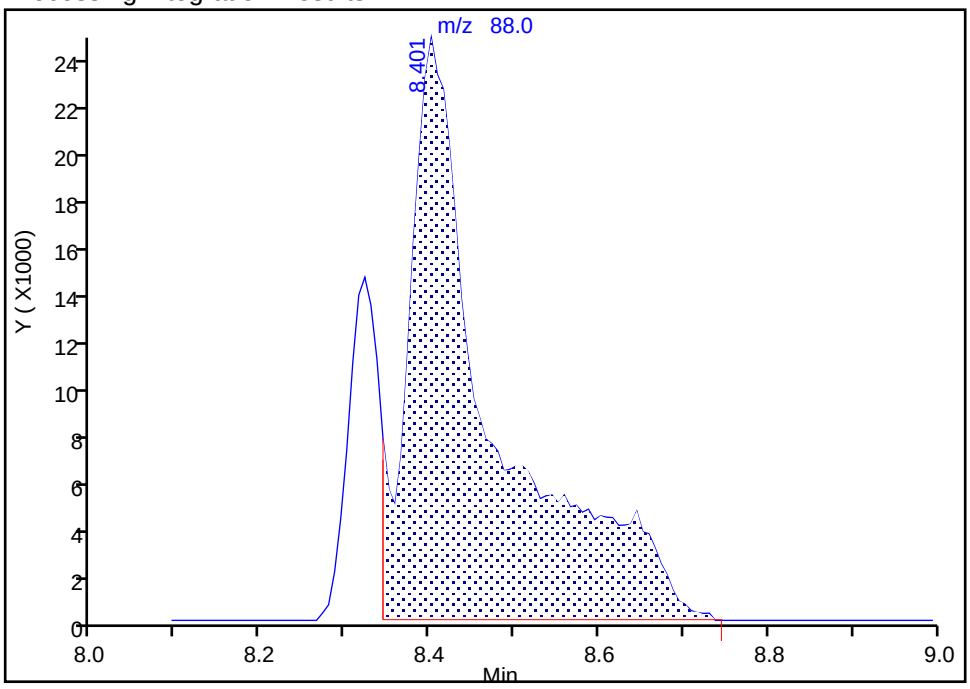
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X16.D				
Injection Date:	25-Mar-2024 18:41:30	Instrument ID:	9355		
Lims ID:	IC v100				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

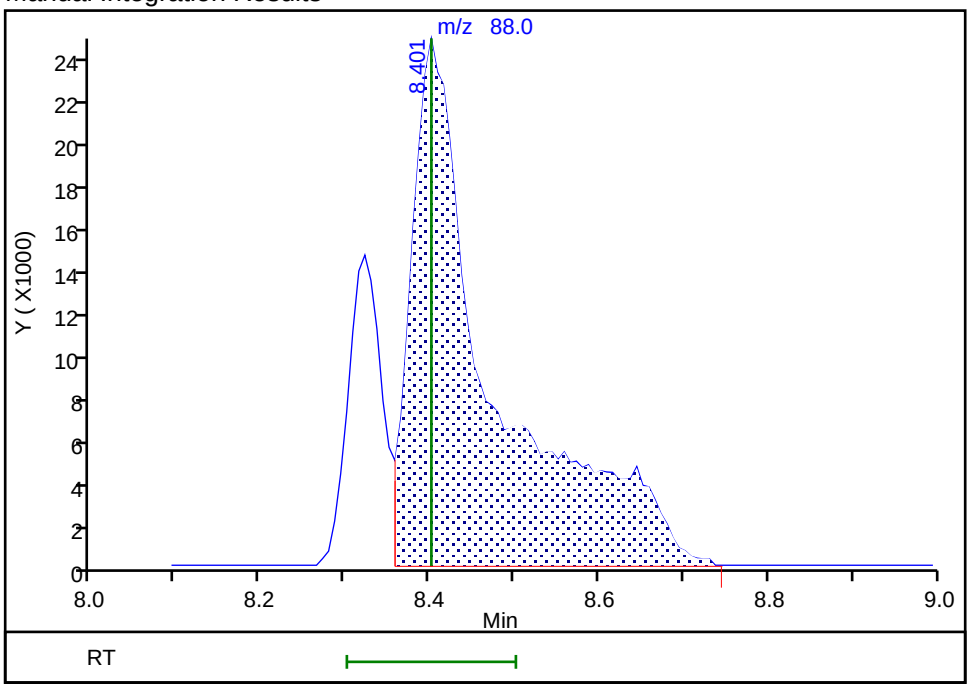
Processing Integration Results

RT: 8.40
Area: 170971
Amount: 1594.0769
Amount Units: ug/l



Manual Integration Results

RT: 8.40
Area: 165362
Amount: 1278.2127
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:56:02 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X17.D
Lims ID: IC v300
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 25-Mar-2024 19:03:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0109476-018
Misc. Info.: IC 300
Operator ID: knk41612 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub95

Method: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 25-Mar-2024 22:26:34 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1656

First Level Reviewer: K4WN Date: 25-Mar-2024 20:04:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.859	1.852	0.007	99	2503782	300.0	310.6	M
4 Chloromethane	50	2.045	2.038	0.007	99	2611469	300.0	302.8	
6 Vinyl chloride	62	2.152	2.138	0.014	98	2463627	300.0	308.5	
5 Butadiene	39	2.159	2.145	0.014	93	2230749	300.0	288.7	
8 Bromomethane	94	2.467	2.460	0.007	90	1606598	300.0	296.7	
9 Chloroethane	64	2.538	2.531	0.007	100	1144414	300.0	304.6	
10 Dichlorofluoromethane	67	2.767	2.753	0.014	97	3283126	300.0	293.1	
11 Trichlorofluoromethane	101	2.839	2.831	0.008	97	2568556	300.0	314.5	
12 Pentane	43	2.853	2.846	0.007	96	2016001	300.0	305.4	
14 Ethyl ether	59	3.046	3.046	0.000	92	1052945	300.0	305.9	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.132	3.125	0.007	91	1565114	300.0	298.6	
16 Acrolein	56	3.196	3.189	0.007	99	4998187	2999.7	2896.9	
17 1,1-Dichloroethene	96	3.346	3.339	0.007	98	1113077	300.0	314.6	
18 Acetone	58	3.346	3.346	0.000	88	549248	600.0	602.0	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.389	3.382	0.007	93	1418362	300.0	313.2	
20 Isopropyl alcohol	45	3.504	3.496	0.008	97	947628	1500.0	1151.3	M
21 Iodomethane	142	3.546	3.525	0.021	98	2331285	300.0	310.3	
22 Carbon disulfide	76	3.654	3.639	0.015	99	4321827	300.0	318.2	
24 Methyl acetate	43	3.754	3.747	0.007	98	1538740	300.0	290.8	
25 3-Chloro-1-propene	41	3.790	3.782	0.008	89	1769142	300.0	286.2	
* 26 t-Butyl alcohol-d10 (IS)	65	3.968	3.940	0.028	93	415071	250.0	250.0	M
27 Methylene Chloride	84	3.968	3.954	0.014	92	1322464	300.0	309.1	
28 2-Methyl-2-propanol	59	4.068	4.068	0.000	100	2067188	1500.0	1198.9	
29 Acrylonitrile	53	4.247	4.247	0.000	98	2097462	750.0	728.5	
30 Methyl tert-butyl ether	73	4.354	4.347	0.007	95	4559938	300.0	283.1	
31 trans-1,2-Dichloroethene	96	4.369	4.362	0.007	99	1134168	300.0	301.6	
33 Hexane	57	4.798	4.791	0.007	94	1611084	300.0	298.1	
34 1,1-Dichloroethane	63	5.019	5.019	0.000	96	2033428	300.0	299.2	
36 Isopropyl ether	45	5.091	5.077	0.014	93	4055280	300.0	297.2	
37 2-Chloro-1,3-butadiene	53	5.134	5.134	0.000	92	1775756	300.0	298.0	

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	5.642	5.634	0.008	98	4313124	300.0	294.9	
40 2-Butanone (MEK)	43	5.827	5.820	0.007	100	2607326	600.0	553.8	
41 cis-1,2-Dichloroethene	96	5.863	5.856	0.007	83	1313272	300.0	295.9	
42 2,2-Dichloropropane	77	5.899	5.892	0.007	87	2237861	300.0	311.6	
43 Propionitrile	54	5.899	5.892	0.007	97	2130507	1500.0	1431.3	
45 Methyl acrylate	55	5.978	5.970	0.008	100	2059283	300.0	319.7	M
46 Methacrylonitrile	67	6.128	6.121	0.007	92	2155197	750.0	726.8	
S 47 1,2-Dichloroethene, Total	100				0			597.5	
48 Chlorobromomethane	128	6.206	6.199	0.007	95	669563	300.0	296.1	
49 Tetrahydrofuran	71	6.228	6.221	0.007	88	1793161	1500.0	1357.3	
51 Chloroform	83	6.357	6.349	0.008	93	2091409	300.0	293.1	
$ 52 Dibromofluoromethane (Surr)	113	6.578	6.578	0.000	93	198281	50.0	48.4	
53 1,1,1-Trichloroethane	97	6.600	6.592	0.008	98	2164000	300.0	311.5	
54 Cyclohexane	56	6.721	6.707	0.014	91	2431484	300.0	318.0	
55 1,1-Dichloropropene	75	6.814	6.814	0.000	97	1612046	300.0	305.4	
56 Carbon tetrachloride	117	6.828	6.814	0.014	97	1810017	300.0	324.9	
57 Isobutyl alcohol	41	6.943	6.943	0.000	94	1785017	3750.0	3288.8	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.043	7.036	0.007	83	51677	50.0	49.7	
59 Benzene	78	7.079	7.072	0.007	96	4994480	300.0	300.5	
60 1,2-Dichloroethane	62	7.150	7.143	0.007	98	1747751	300.0	291.6	
62 Tert-amyl methyl ether	73	7.279	7.272	0.007	98	4403807	300.0	297.1	
* 63 Fluorobenzene (IS)	96	7.486	7.486	0.000	99	861945	50.0	50.0	
64 n-Heptane	43	7.515	7.508	0.007	92	1834078	300.0	300.5	
66 n-Butanol	56	7.837	7.837	0.000	89	1424241	3750.0	3533.9	
67 Trichloroethene	95	7.980	7.980	0.000	99	1337457	300.0	313.2	
68 Ethyl acrylate	55	8.087	8.087	0.000	99	2491166	300.0	341.7	
69 Methylcyclohexane	83	8.301	8.301	0.000	90	2584427	300.0	331.1	
70 1,2-Dichloropropane	63	8.309	8.309	0.000	89	1381361	300.0	315.5	
71 2-ethoxy-2-methyl butane	87	8.330	8.323	0.007	95	2263368	300.0	315.2	
72 Methyl methacrylate	69	8.394	8.387	0.007	90	1437627	300.0	307.6	
73 1,4-Dioxane	88	8.409	8.402	0.007	54	453011	3750.0	3326.4	M
74 Dibromomethane	93	8.423	8.423	0.000	96	963611	300.0	310.1	
76 Dichlorobromomethane	83	8.659	8.659	0.000	99	1738854	300.0	318.1	
77 2-Nitropropane	41	8.909	8.902	0.007	98	3471405	1500.0	1363.1	
78 2-Chloroethyl vinyl ether	63	9.031	9.024	0.007	92	1054000	300.0	314.6	
79 cis-1,3-Dichloropropene	75	9.224	9.224	0.000	95	2275508	300.0	330.3	
80 4-Methyl-2-pentanone (MIBK)	43	9.388	9.388	0.000	97	5237375	600.0	569.8	
$ 81 Toluene-d8 (Surr)	98	9.546	9.546	0.000	94	880865	50.0	49.0	
82 Toluene	92	9.624	9.624	0.000	98	3377124	300.0	295.9	
83 trans-1,3-Dichloropropene	75	9.889	9.889	0.000	94	2110757	300.0	310.2	
84 Ethyl methacrylate	69	9.953	9.953	0.000	89	2412137	300.0	278.2	
S 125 1,3-Dichloropropene, Total	100				0			640.6	
126 1,1,2-Trichloroethane	97	10.103	10.096	0.007	91	1317366	300.0	283.2	
127 Tetrachloroethene	166	10.196	10.196	0.000	97	1459663	300.0	299.3	
128 1,3-Dichloropropane	76	10.268	10.261	0.007	91	2182543	300.0	293.4	
129 2-Hexanone	43	10.311	10.311	0.000	97	3709518	600.0	523.8	
132 Chlorodibromomethane	129	10.489	10.489	0.000	90	1518578	300.0	315.4	
133 Ethylene Dibromide	107	10.604	10.604	0.000	99	1459381	300.0	297.6	
* 134 Chlorobenzene-d5 (IS)	117	11.040	11.040	0.000	88	689271	50.0	50.0	
135 1-Chlorohexane	91	11.054	11.054	0.000	98	1774777	300.0	281.4	
136 Chlorobenzene	112	11.069	11.069	0.000	94	3832792	300.0	292.0	
137 1,1,1,2-Tetrachloroethane	131	11.154	11.154	0.000	96	1555648	300.0	299.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
138 Ethylbenzene	91	11.161	11.154	0.007	98	6767855	300.0	286.6	
S 139 Xylenes, Total	106				0			866.9	
140 m-Xylene & p-Xylene	106	11.276	11.276	0.000	98	5358270	600.0	577.4	
141 n-Butyl acrylate	55	11.555	11.555	0.000	96	3430124	300.1	308.9	
142 o-Xylene	106	11.612	11.605	0.007	97	2857952	300.0	289.5	
143 Styrene	104	11.626	11.626	0.000	94	4499058	300.0	286.4	
144 Bromoform	173	11.784	11.784	0.000	97	1261668	300.0	310.1	
145 Isopropylbenzene	105	11.912	11.912	0.000	96	6985322	300.0	286.0	
147 Cyclohexanone	55	11.984	11.977	0.007	92	2863932	3749.9	3763.1	
$ 148 4-Bromofluorobenzene (Surr)	95	12.062	12.062	0.000	90	347390	50.0	49.3	
149 1,1,2,2-Tetrachloroethane	83	12.155	12.155	0.000	94	2591513	300.0	279.1	
150 Bromobenzene	156	12.177	12.177	0.000	97	1802955	300.0	292.5	
151 trans-1,4-Dichloro-2-butene	53	12.184	12.177	0.007	92	1898245	750.0	751.9	
152 1,2,3-Trichloropropane	110	12.205	12.198	0.007	84	785308	300.0	274.6	
153 N-Propylbenzene	91	12.248	12.248	0.000	98	8230632	300.0	288.1	
154 2-Chlorotoluene	126	12.327	12.320	0.007	97	1833390	300.0	297.9	
155 1,3,5-Trimethylbenzene	105	12.384	12.384	0.000	94	6834012	300.0	306.3	
156 4-Chlorotoluene	126	12.413	12.413	0.000	98	1769490	300.0	299.5	
158 tert-Butylbenzene	134	12.627	12.627	0.000	93	1367250	300.0	327.6	
160 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	98	6908525	300.0	297.0	
161 sec-Butylbenzene	105	12.792	12.792	0.000	95	8486856	300.0	301.3	
162 1,3-Dichlorobenzene	146	12.892	12.892	0.000	97	3513559	300.0	283.0	
163 4-Isopropyltoluene	119	12.906	12.899	0.007	96	7573984	300.0	300.5	
* 164 1,4-Dichlorobenzene-d4	152	12.949	12.949	0.000	95	405719	50.0	50.0	
165 1,4-Dichlorobenzene	146	12.971	12.963	0.007	93	3588298	300.0	279.7	
166 1,2,3-Trimethylbenzene	105	12.978	12.978	0.000	98	7480874	300.0	298.4	
167 Benzyl chloride	91	13.042	13.035	0.007	99	5556896	300.0	294.3	
168 1,3-Diethylbenzene	119	13.106	13.099	0.007	94	4555363	300.0	303.3	
169 p-Diethylbenzene	119	13.178	13.178	0.000	95	4664619	300.0	296.1	
170 n-Butylbenzene	92	13.199	13.192	0.007	98	3800396	300.0	300.7	
171 1,2-Dichlorobenzene	146	13.228	13.221	0.007	98	3769327	300.0	280.4	
172 o-diethylbenzene	119	13.249	13.249	0.000	95	3927688	300.0	309.2	
175 1,2-Dibromo-3-Chloropropane	75	13.764	13.764	0.000	87	871295	300.0	290.1	
176 1,3,5-Trichlorobenzene	180	13.900	13.900	0.000	98	3167517	300.0	292.3	
177 1,2,4-Trichlorobenzene	180	14.322	14.322	0.000	95	3116823	300.0	278.8	
178 2-Ethylhexyl acrylate	55	14.379	14.379	0.000	81	3229924	299.9	325.6	
179 Hexachlorobutadiene	225	14.408	14.408	0.000	96	1256933	300.0	312.1	
180 Naphthalene	128	14.501	14.501	0.000	98	10563338	300.0	248.4	
181 1,2,3-Trichlorobenzene	180	14.644	14.644	0.000	96	3077660	300.0	268.4	
182 2-Methylnaphthalene	142	15.259	15.259	0.000	93	6228073	300.0	259.3	
S 211 Total Diethylbenzene	1				0			908.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00176	Amount Added:	15.00	Units: uL	
MSV_CCV_CYC_00008	Amount Added:	30.00	Units: uL	
MSV_CCV_VOC#3_00172	Amount Added:	12.00	Units: uL	
MSV_CCV_2CEVE_00168	Amount Added:	15.00	Units: uL	
MSV_CCV_EE_00006	Amount Added:	15.00	Units: uL	
MSV_CCV_GASES_00760	Amount Added:	7.50	Units: uL	
MSV_CCV_OH_Sp_00009	Amount Added:	15.00	Units: uL	
MSV_HP20_ISSS_00129	Amount Added:	1.00	Units: uL	Run Reagent

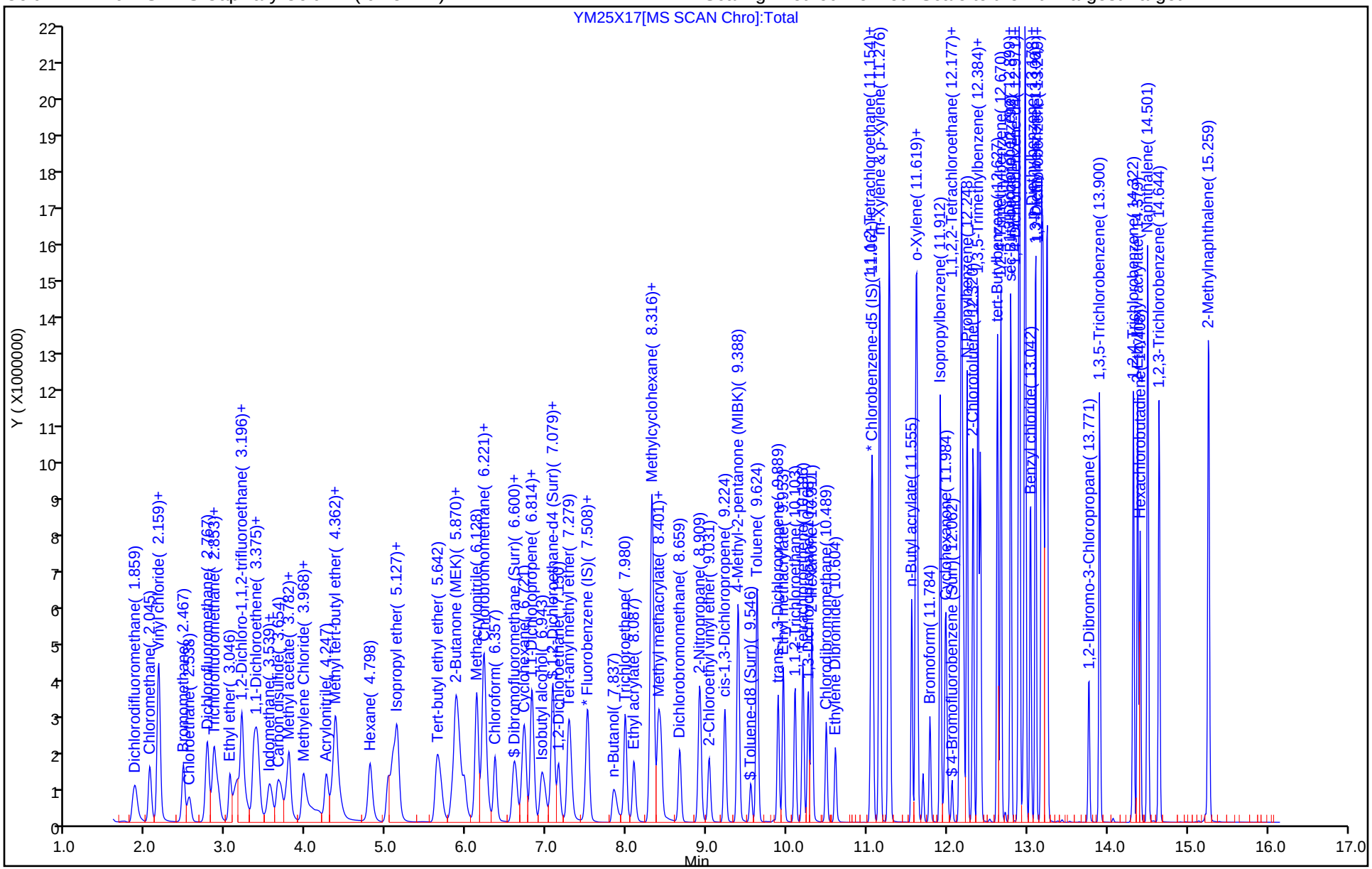
Report Date: 25-Mar-2024 22:26:35 Chrom Revision: 2.3 20-Mar-2024 17:23:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X17.D

Injection Date:	25-Mar-2024 19:03:30	Instrument ID:	9355	Operator ID:	knk41612
Lims ID:	IC v300			Worklist Smp#:	18
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSVoa_9355	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



07/09/2024

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

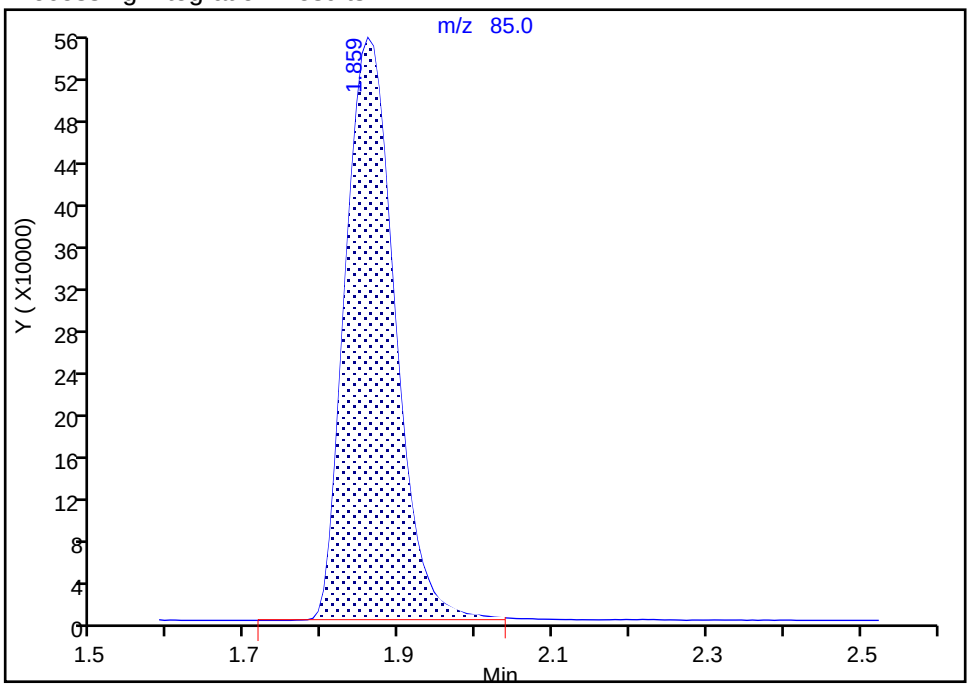
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X17.D				
Injection Date:	25-Mar-2024 19:03:30	Instrument ID:	9355		
Lims ID:	IC v300				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

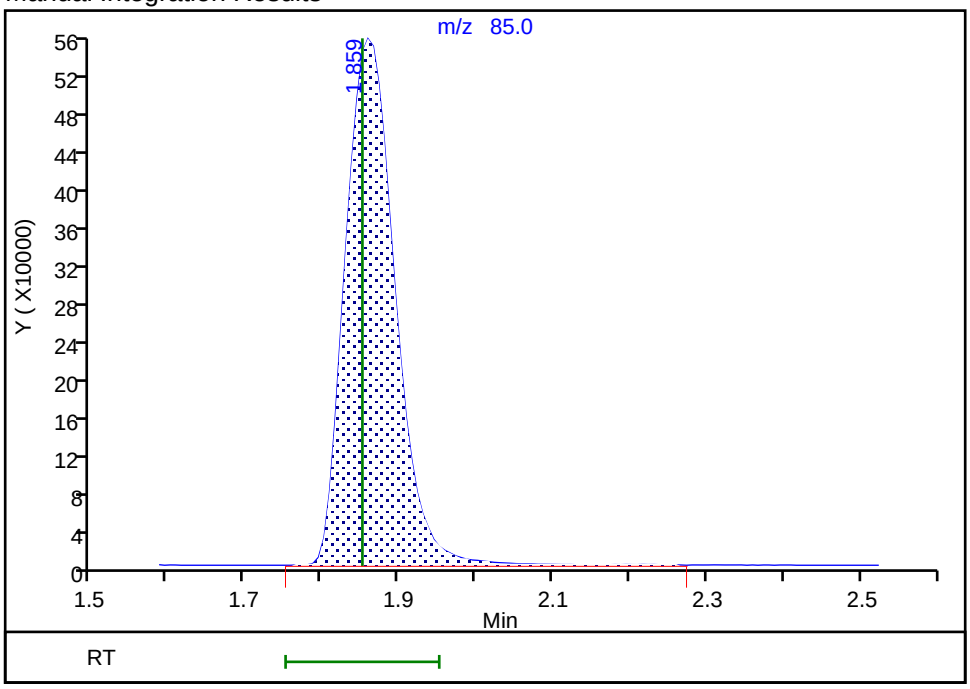
Processing Integration Results

RT: 1.86
Area: 2492135
Amount: 335.3175
Amount Units: ug/l



Manual Integration Results

RT: 1.86
Area: 2503782
Amount: 310.6046
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:56:39 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

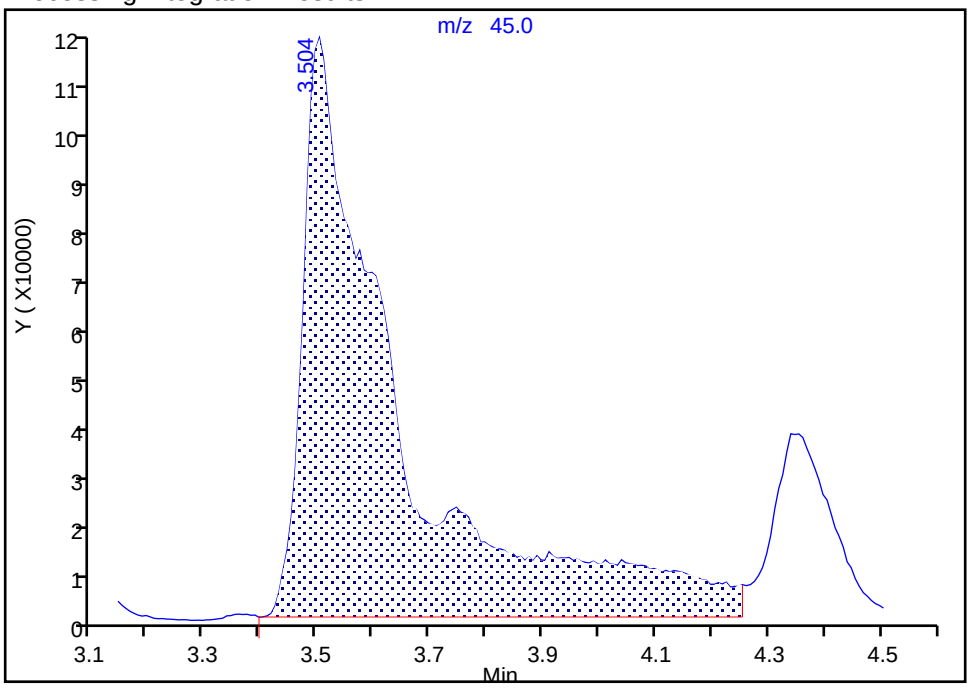
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X17.D
Injection Date: 25-Mar-2024 19:03:30 Instrument ID: 9355
Lims ID: IC v300
Client ID:
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

20 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

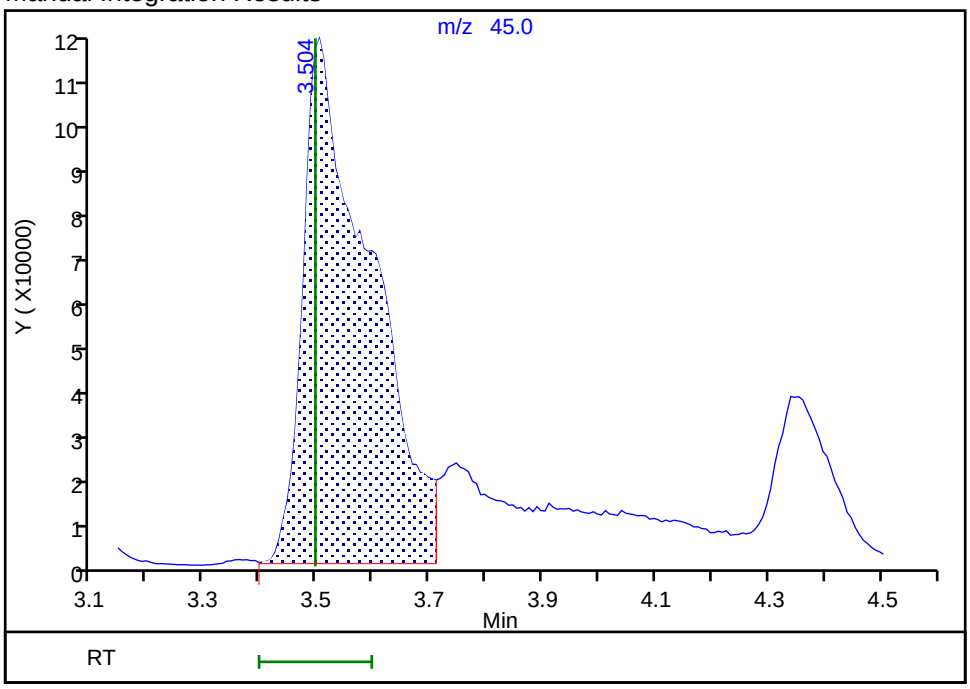
Processing Integration Results

RT: 3.50
Area: 1316913
Amount: 1487.0118
Amount Units: ug/l



Manual Integration Results

RT: 3.50
Area: 947628
Amount: 1151.3388
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 22:03:59 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

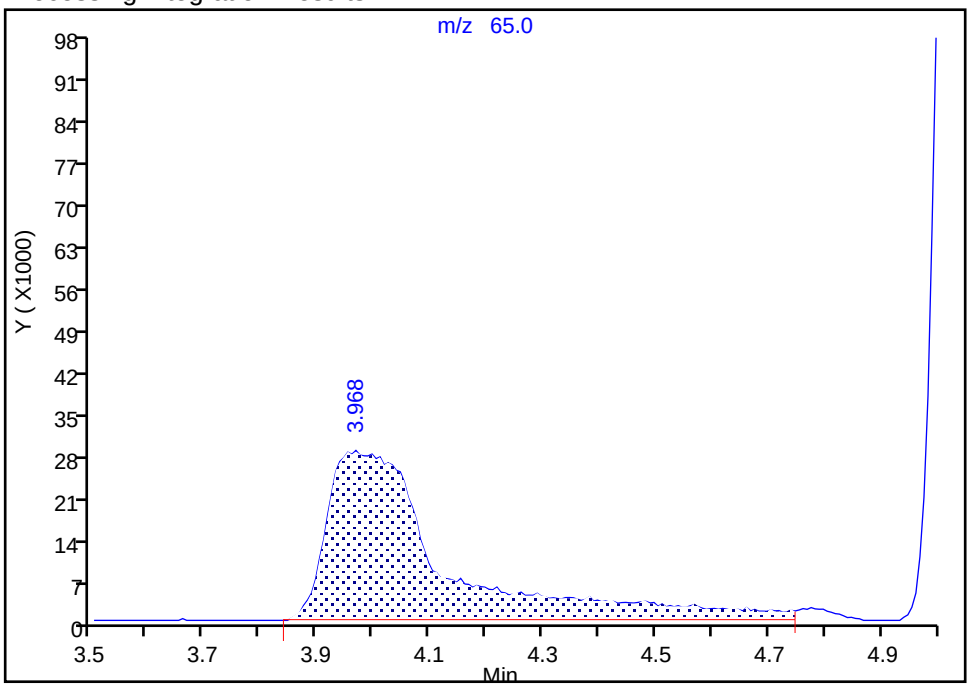
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X17.D
Injection Date: 25-Mar-2024 19:03:30 Instrument ID: 9355
Lims ID: IC v300
Client ID:
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

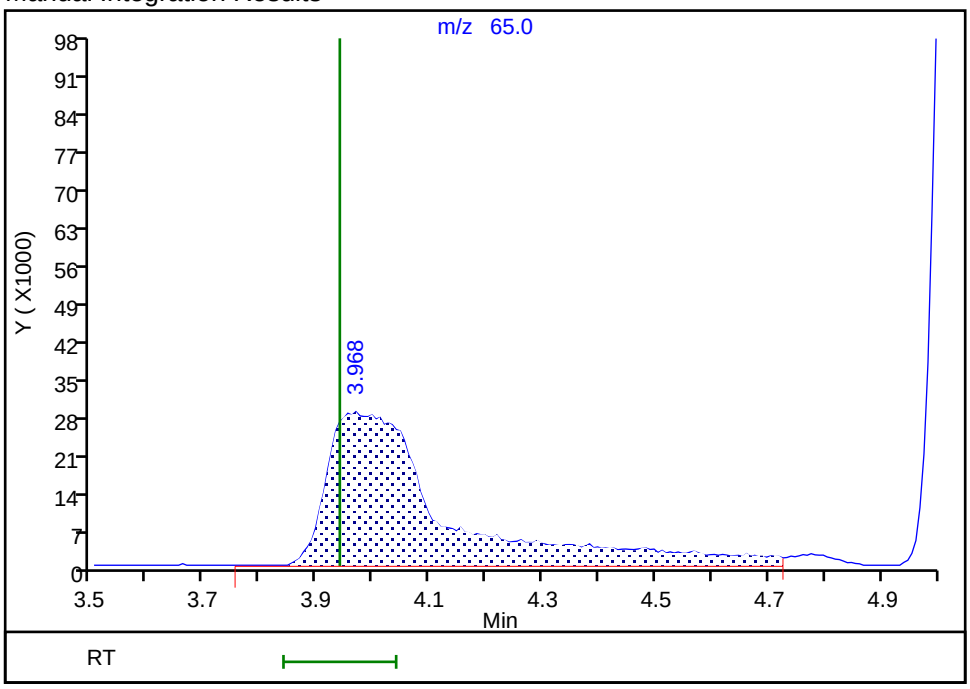
Processing Integration Results

RT: 3.97
Area: 417087
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 3.97
Area: 415071
Amount: 250.0000
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 22:05:48 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

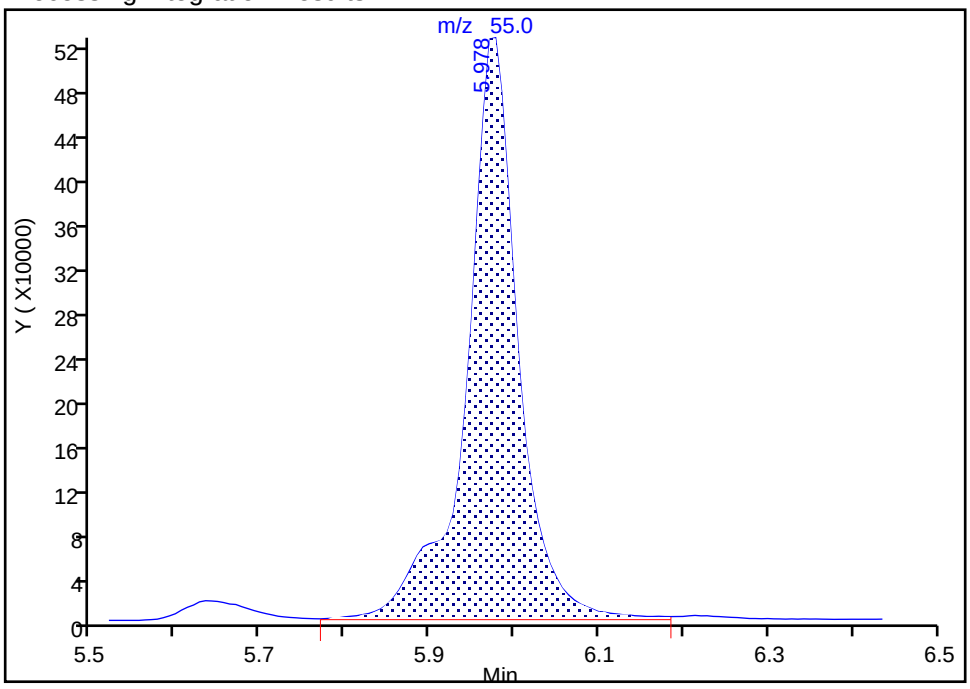
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X17.D				
Injection Date:	25-Mar-2024 19:03:30	Instrument ID:	9355		
Lims ID:	IC v300				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

45 Methyl acrylate, CAS: 96-33-3

Signal: 1

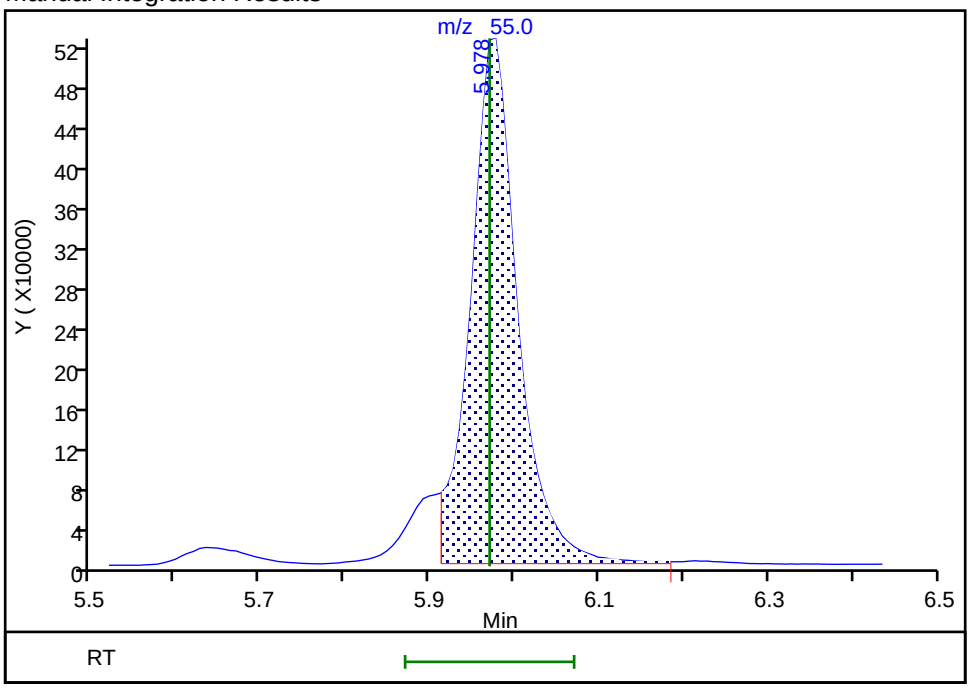
Processing Integration Results

RT: 5.98
Area: 2252543
Amount: 340.8659
Amount Units: ug/l



Manual Integration Results

RT: 5.98
Area: 2059283
Amount: 319.7316
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:57:39 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

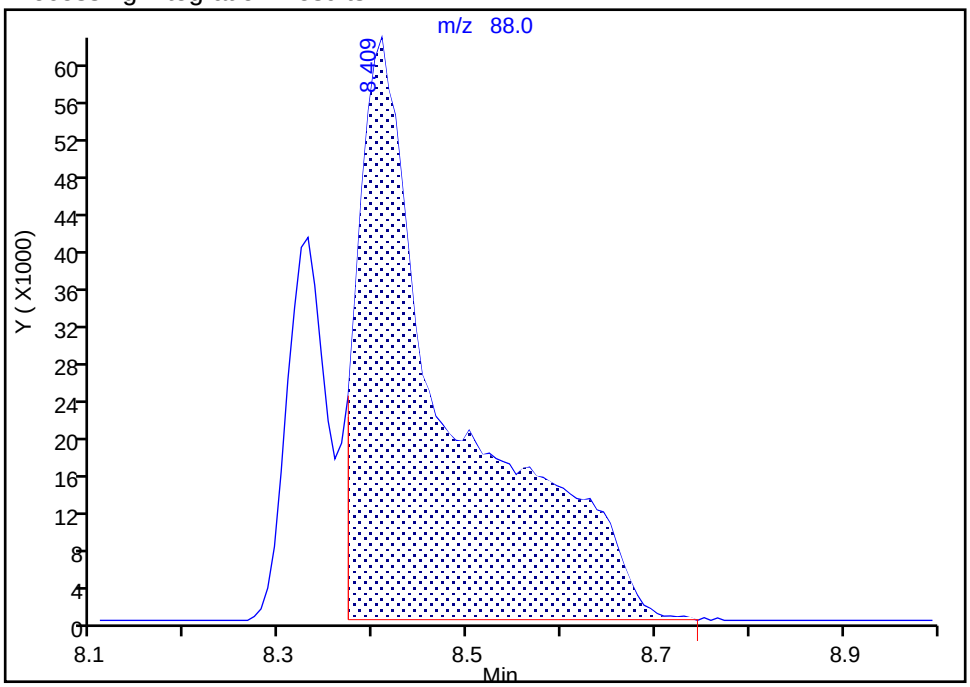
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X17.D				
Injection Date:	25-Mar-2024 19:03:30	Instrument ID:	9355		
Lims ID:	IC v300				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

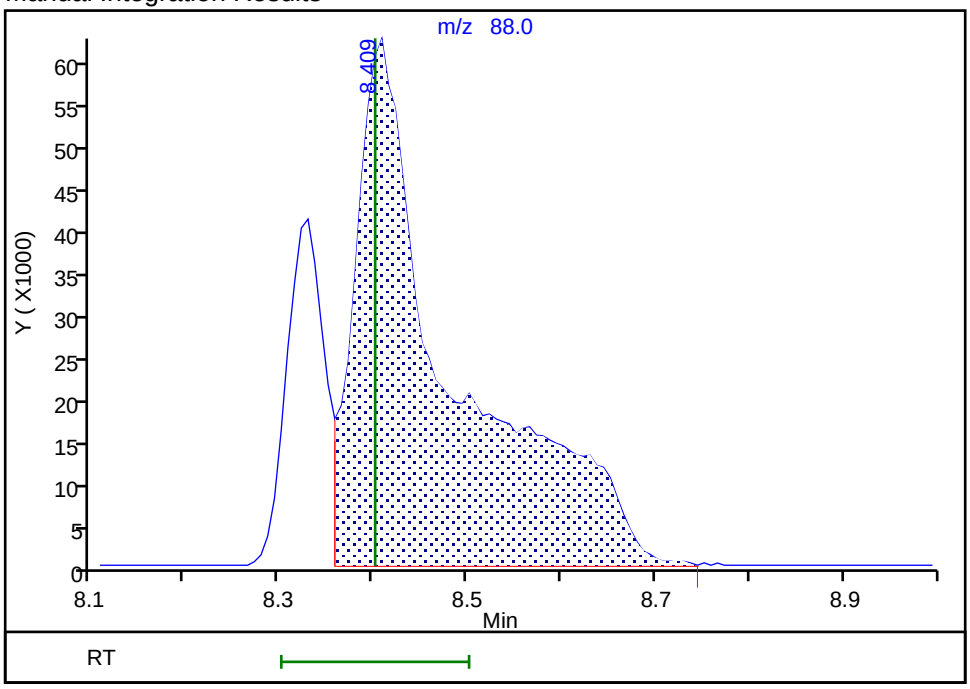
Processing Integration Results

RT: 8.41
Area: 437525
Amount: 3810.2798
Amount Units: ug/l



Manual Integration Results

RT: 8.41
Area: 453011
Amount: 3326.4380
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 19:58:00 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak 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

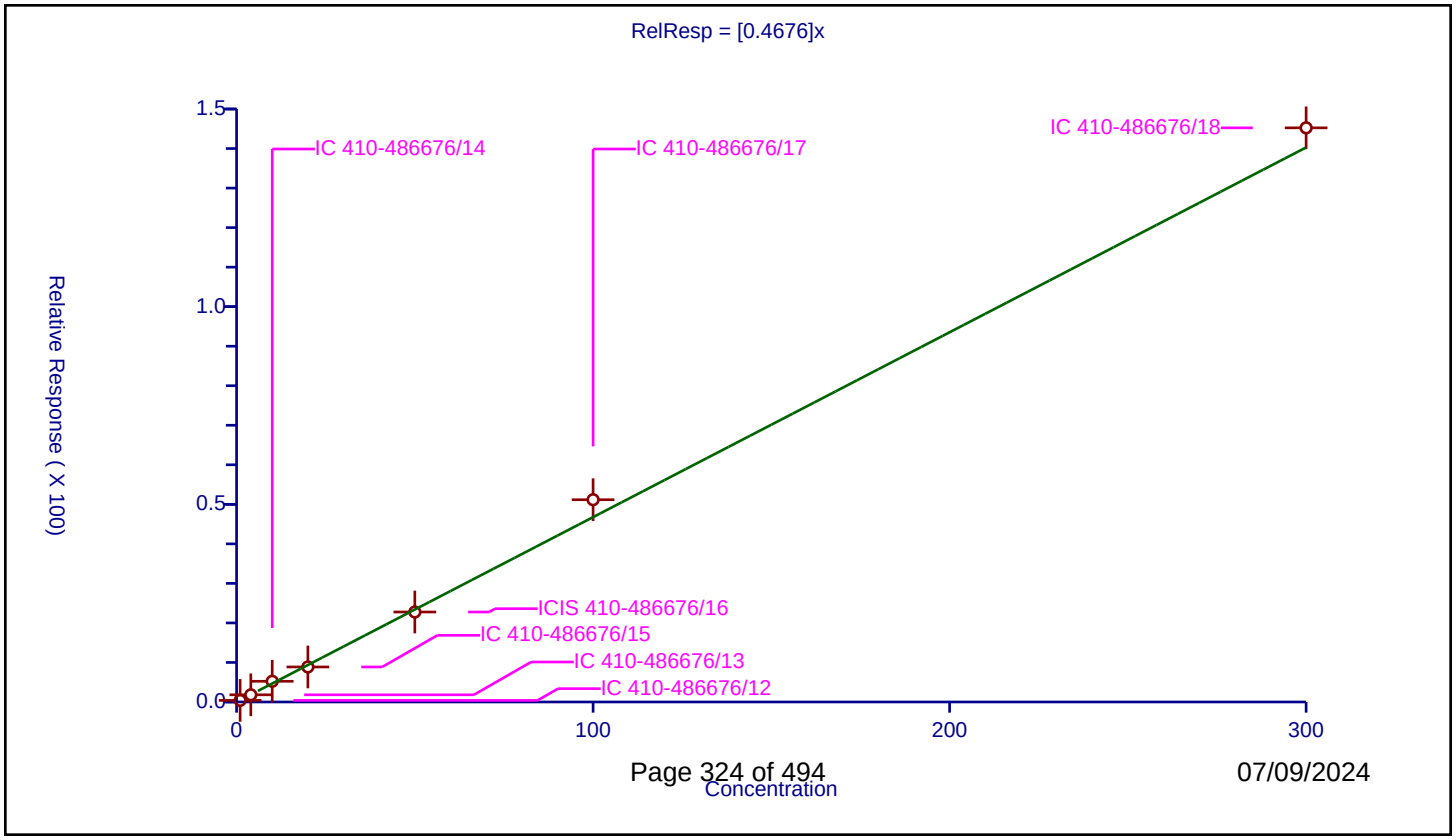
Curve Coefficients

Intercept:	0
Slope:	0.4676

Error Coefficients

Relative Standard Deviation:	9.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.401273	50.0	815032.0	0.401273	Y
2	IC 410-486676/13	4.0	1.816755	50.0	812080.0	0.454189	Y
3	IC 410-486676/14	10.0	5.235565	50.0	815146.0	0.523557	Y
4	IC 410-486676/15	20.0	8.863114	50.0	819097.0	0.443156	Y
5	ICIS 410-486676/16	50.0	22.762552	50.0	837226.0	0.455251	Y
6	IC 410-486676/17	100.0	51.167601	50.0	843096.0	0.511676	Y
7	IC 410-486676/18	300.0	145.240242	50.0	861945.0	0.484134	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

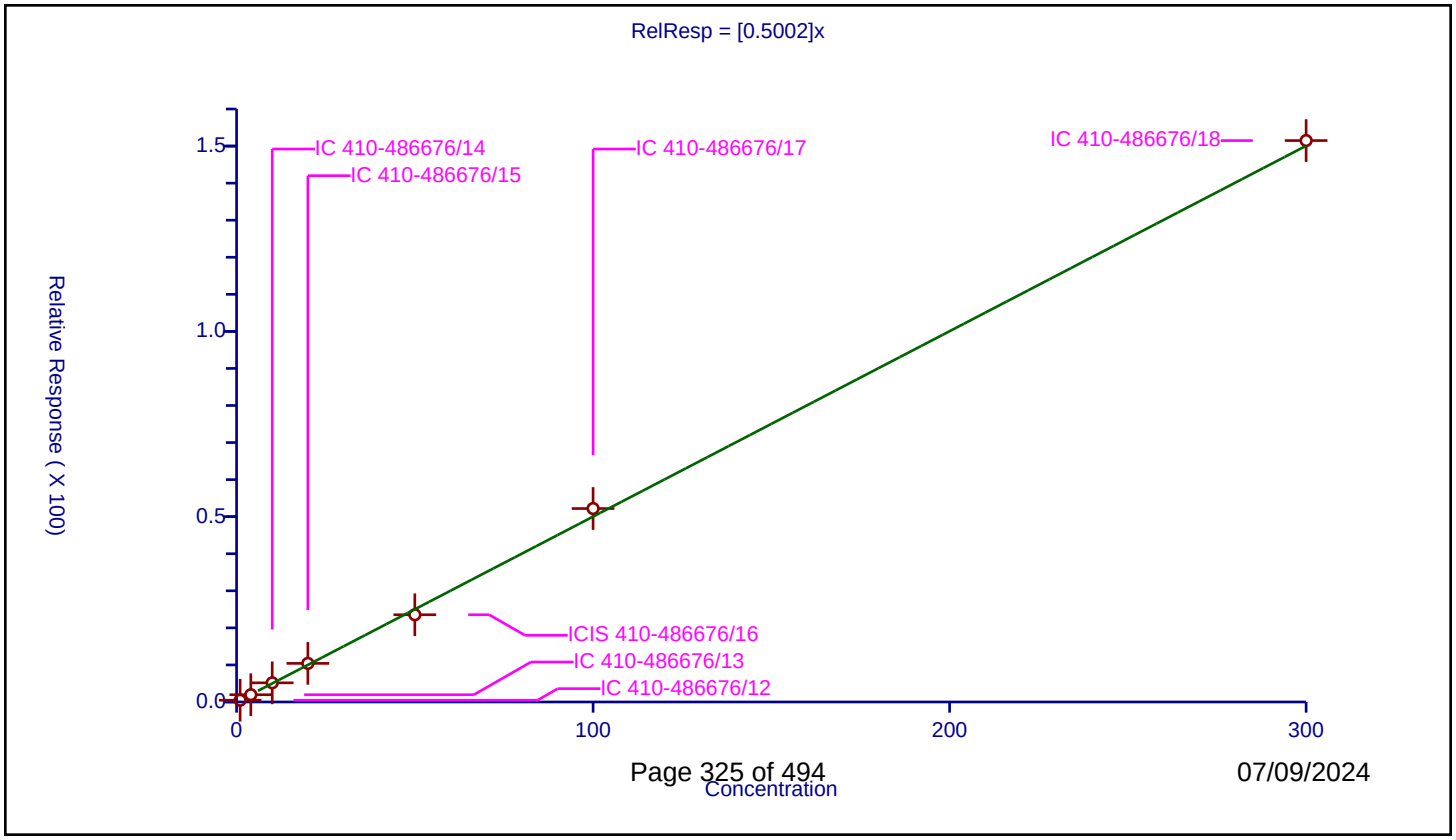
Curve Coefficients

Intercept:	0
Slope:	0.5002

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.475564	50.0	815032.0	0.475564	Y
2	IC 410-486676/13	4.0	1.961691	50.0	812080.0	0.490423	Y
3	IC 410-486676/14	10.0	5.171773	50.0	815146.0	0.517177	Y
4	IC 410-486676/15	20.0	10.412015	50.0	819097.0	0.520601	Y
5	ICIS 410-486676/16	50.0	23.54203	50.0	837226.0	0.470841	Y
6	IC 410-486676/17	100.0	52.200639	50.0	843096.0	0.522006	Y
7	IC 410-486676/18	300.0	151.486986	50.0	861945.0	0.504957	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

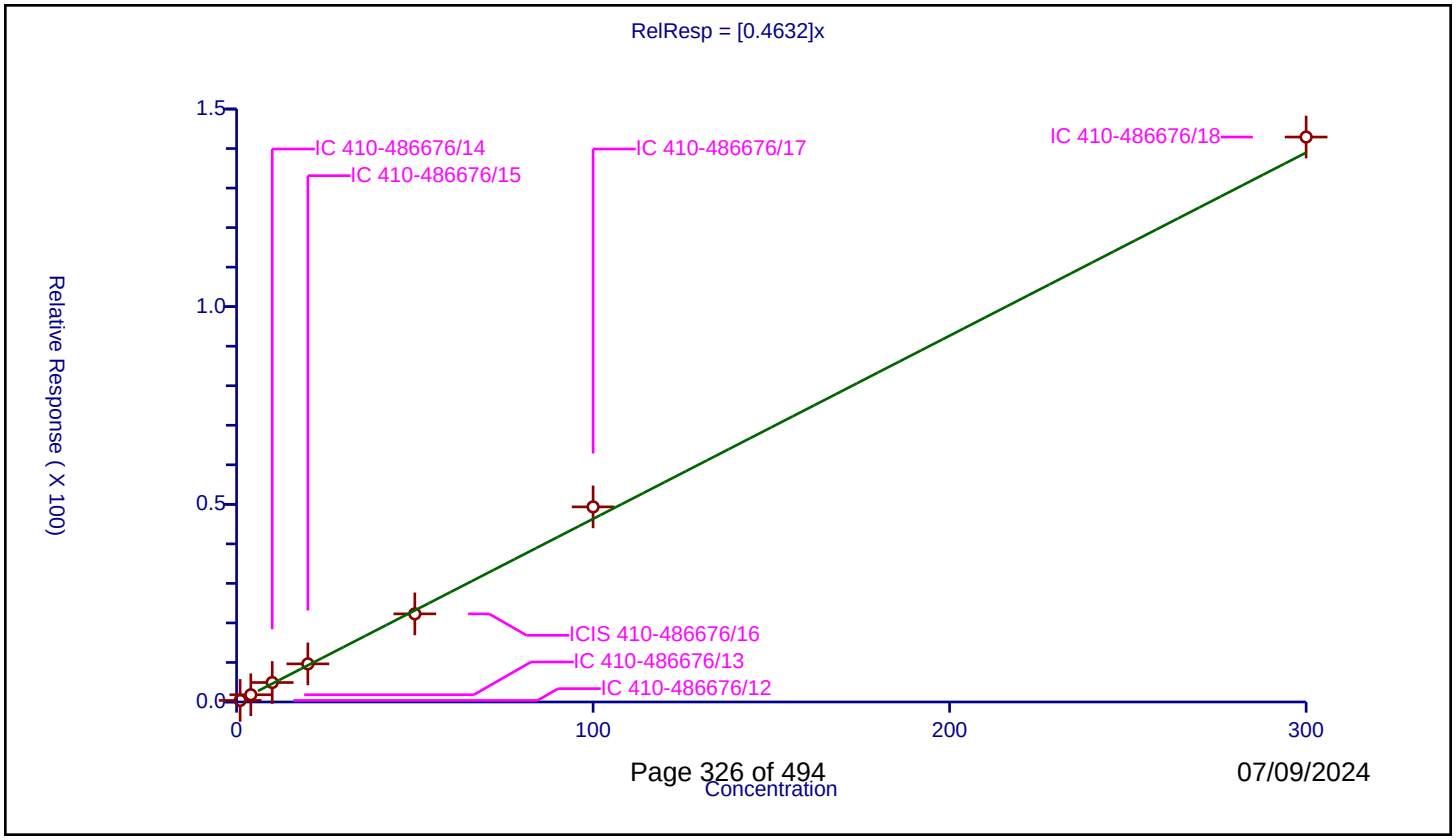
Curve Coefficients

Intercept:	0
Slope:	0.4632

Error Coefficients

Relative Standard Deviation:	7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.393666	50.0	815032.0	0.393666	Y
2	IC 410-486676/13	4.0	1.833009	50.0	812080.0	0.458252	Y
3	IC 410-486676/14	10.0	4.930466	50.0	815146.0	0.493047	Y
4	IC 410-486676/15	20.0	9.639762	50.0	819097.0	0.481988	Y
5	ICIS 410-486676/16	50.0	22.292069	50.0	837226.0	0.445841	Y
6	IC 410-486676/17	100.0	49.352565	50.0	843096.0	0.493526	Y
7	IC 410-486676/18	300.0	142.910917	50.0	861945.0	0.47637	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

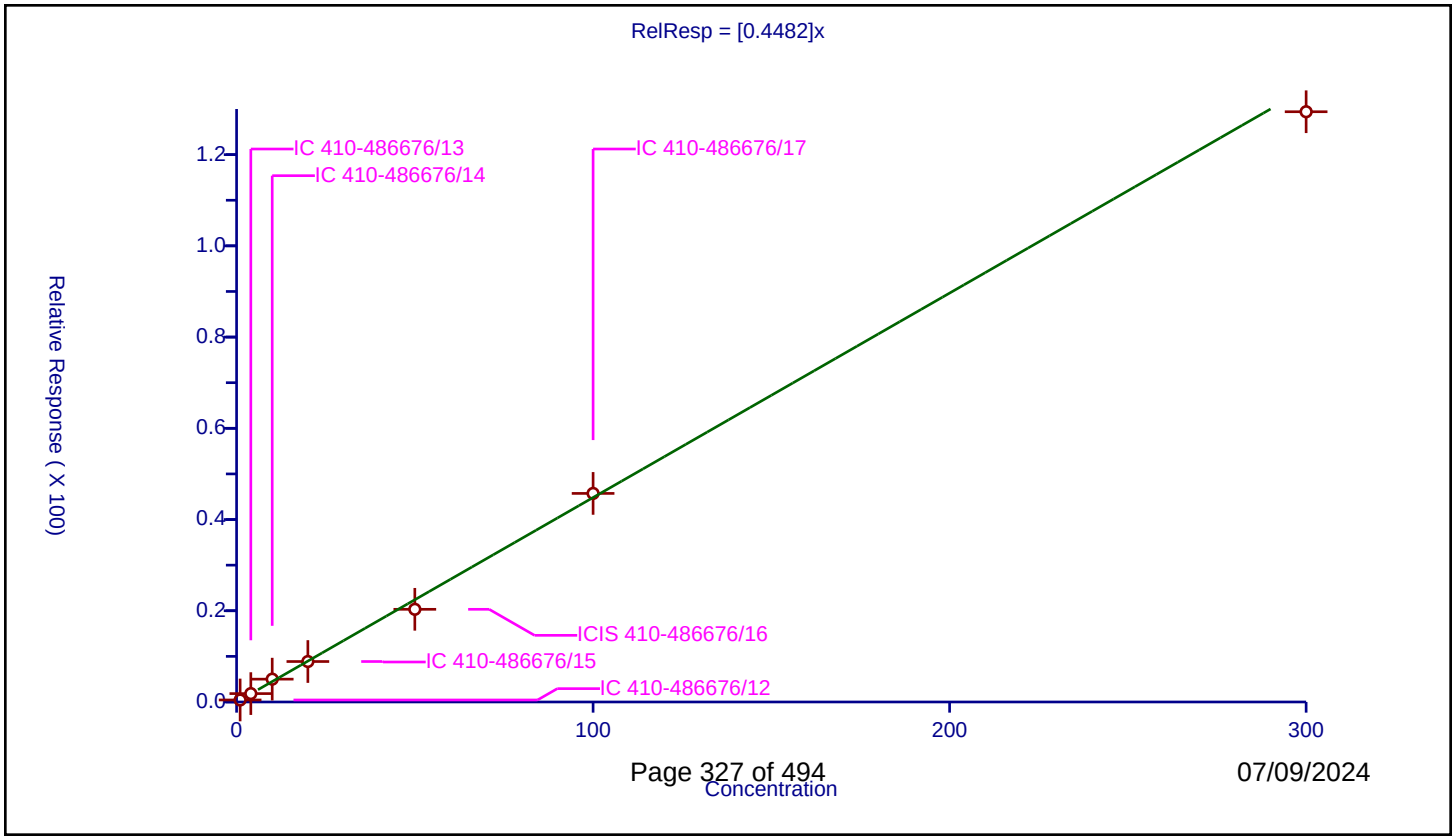
Curve Coefficients

Intercept:	0
Slope:	0.4482

Error Coefficients

Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.439124	50.0	815032.0	0.439124	Y
2	IC 410-486676/13	4.0	1.837565	50.0	812080.0	0.459391	Y
3	IC 410-486676/14	10.0	5.005974	50.0	815146.0	0.500597	Y
4	IC 410-486676/15	20.0	8.871538	50.0	819097.0	0.443577	Y
5	ICIS 410-486676/16	50.0	20.319245	50.0	837226.0	0.406385	Y
6	IC 410-486676/17	100.0	45.725813	50.0	843096.0	0.457258	Y
7	IC 410-486676/18	300.0	129.40205	50.0	861945.0	0.43134	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

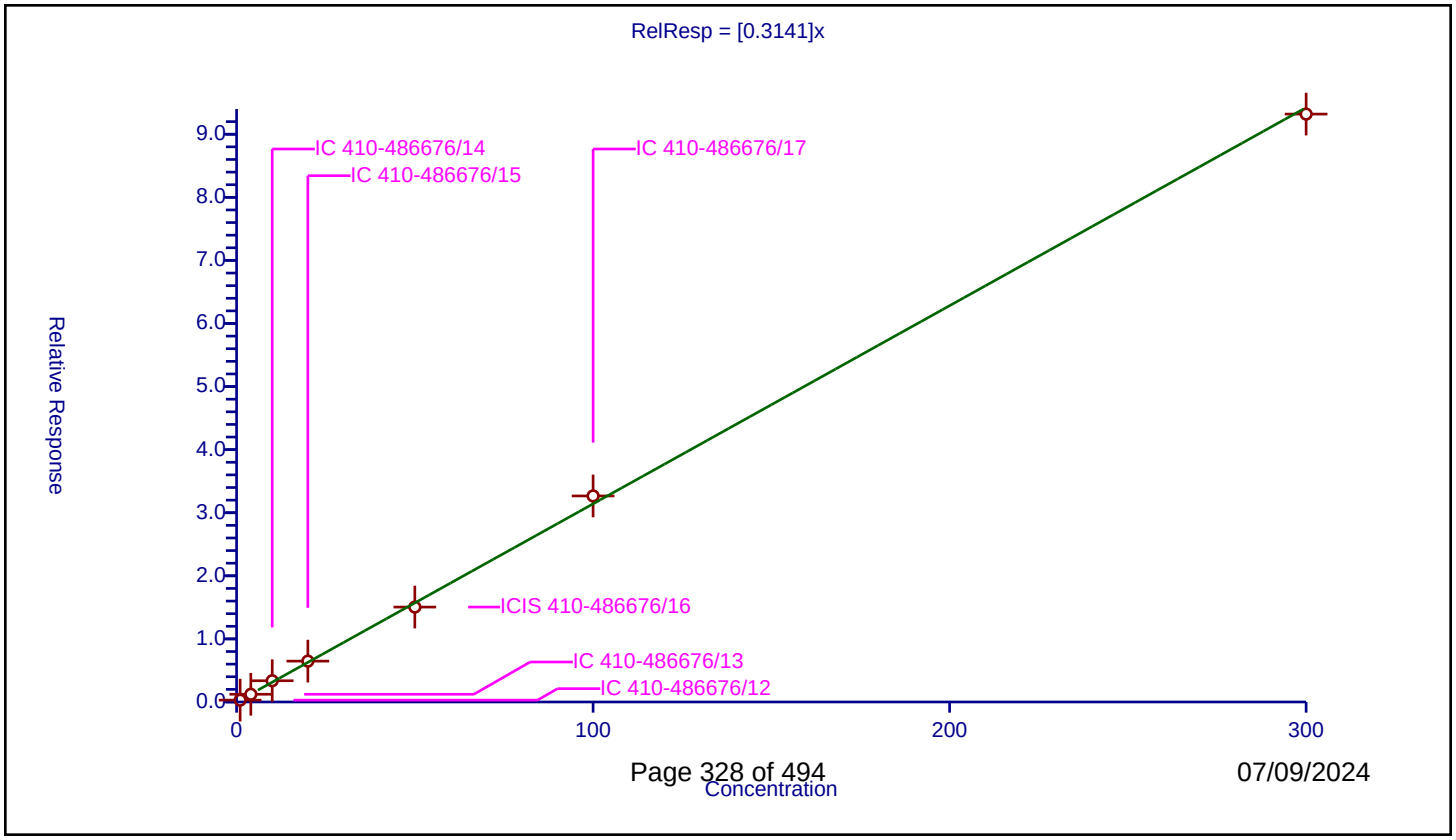
Curve Coefficients

Intercept:	0
Slope:	0.3141

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.294283	50.0	815032.0	0.294283	Y
2	IC 410-486676/13	4.0	1.223032	50.0	812080.0	0.305758	Y
3	IC 410-486676/14	10.0	3.367188	50.0	815146.0	0.336719	Y
4	IC 410-486676/15	20.0	6.477438	50.0	819097.0	0.323872	Y
5	ICIS 410-486676/16	50.0	15.0454	50.0	837226.0	0.300908	Y
6	IC 410-486676/17	100.0	32.661524	50.0	843096.0	0.326615	Y
7	IC 410-486676/18	300.0	93.196086	50.0	861945.0	0.310654	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

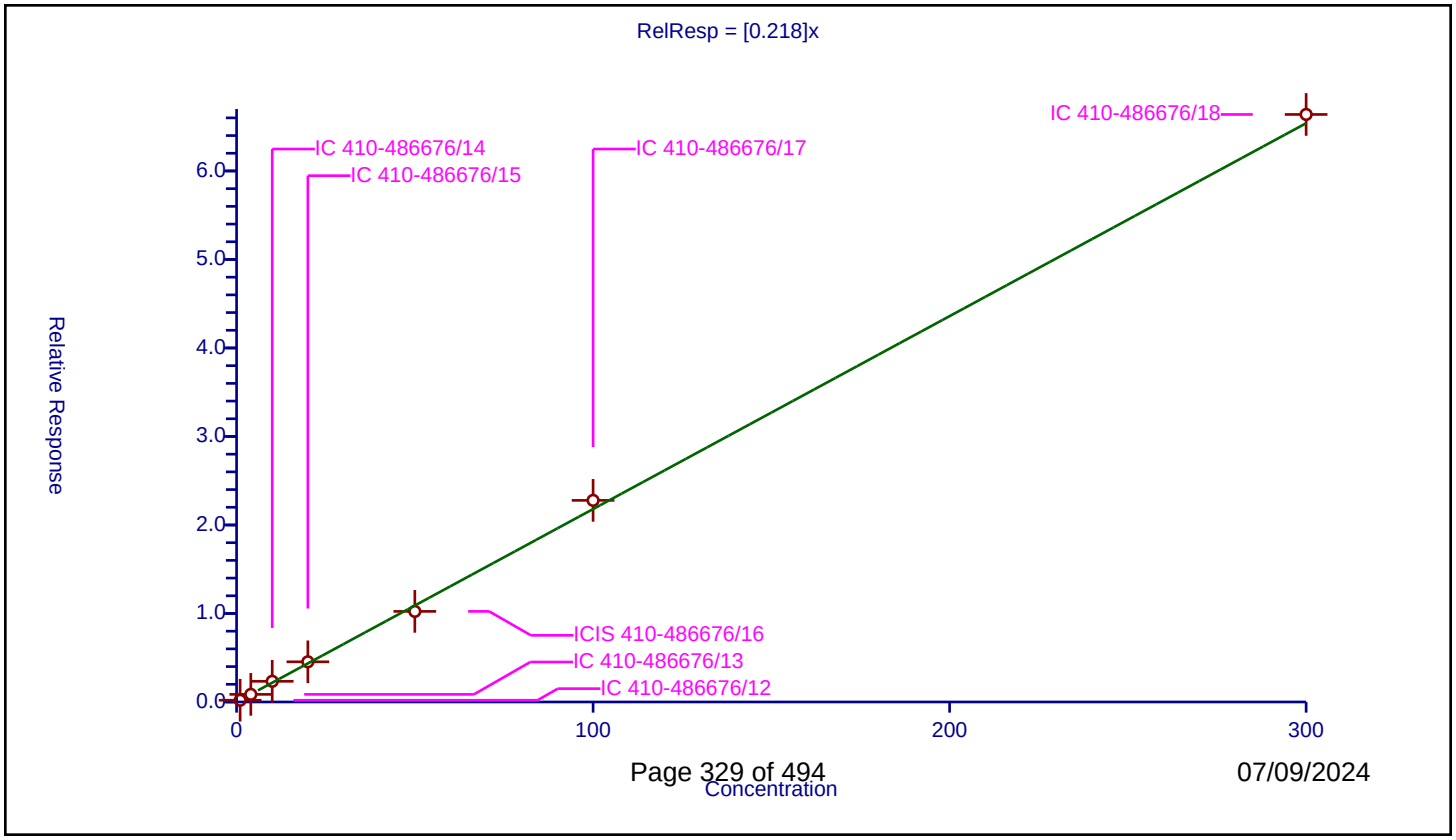
Curve Coefficients

Intercept:	0
Slope:	0.218

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.196495	50.0	815032.0	0.196495	Y
2	IC 410-486676/13	4.0	0.859583	50.0	812080.0	0.214896	Y
3	IC 410-486676/14	10.0	2.337495	50.0	815146.0	0.23375	Y
4	IC 410-486676/15	20.0	4.537924	50.0	819097.0	0.226896	Y
5	ICIS 410-486676/16	50.0	10.236603	50.0	837226.0	0.204732	Y
6	IC 410-486676/17	100.0	22.779494	50.0	843096.0	0.227795	Y
7	IC 410-486676/18	300.0	66.385558	50.0	861945.0	0.221285	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

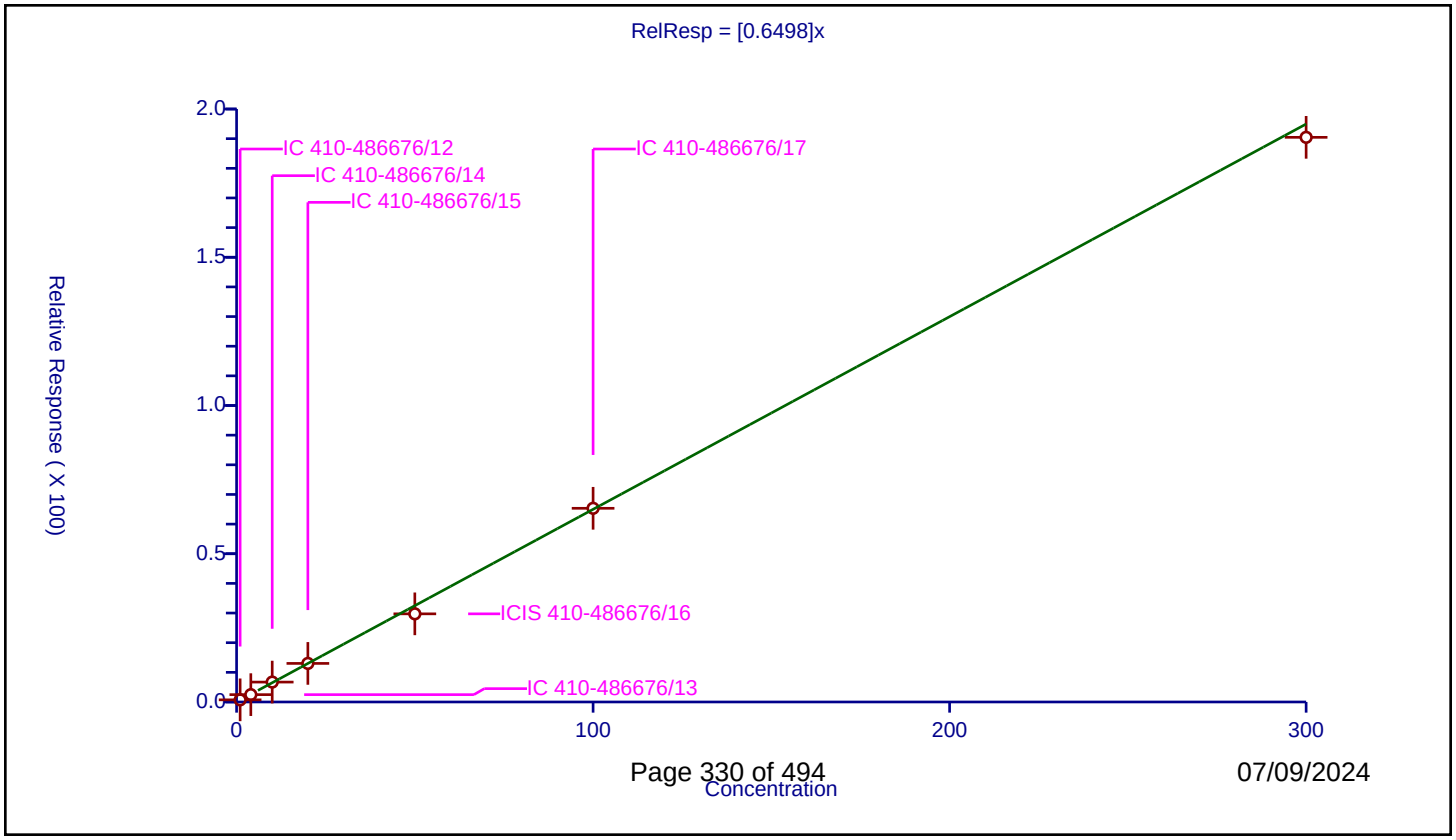
Curve Coefficients

Intercept:	0
Slope:	0.6498

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.723653	50.0	815032.0	0.723653	Y
2	IC 410-486676/13	4.0	2.481036	50.0	812080.0	0.620259	Y
3	IC 410-486676/14	10.0	6.715852	50.0	815146.0	0.671585	Y
4	IC 410-486676/15	20.0	13.009143	50.0	819097.0	0.650457	Y
5	ICIS 410-486676/16	50.0	29.725964	50.0	837226.0	0.594519	Y
6	IC 410-486676/17	100.0	65.330223	50.0	843096.0	0.653302	Y
7	IC 410-486676/18	300.0	190.448695	50.0	861945.0	0.634829	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

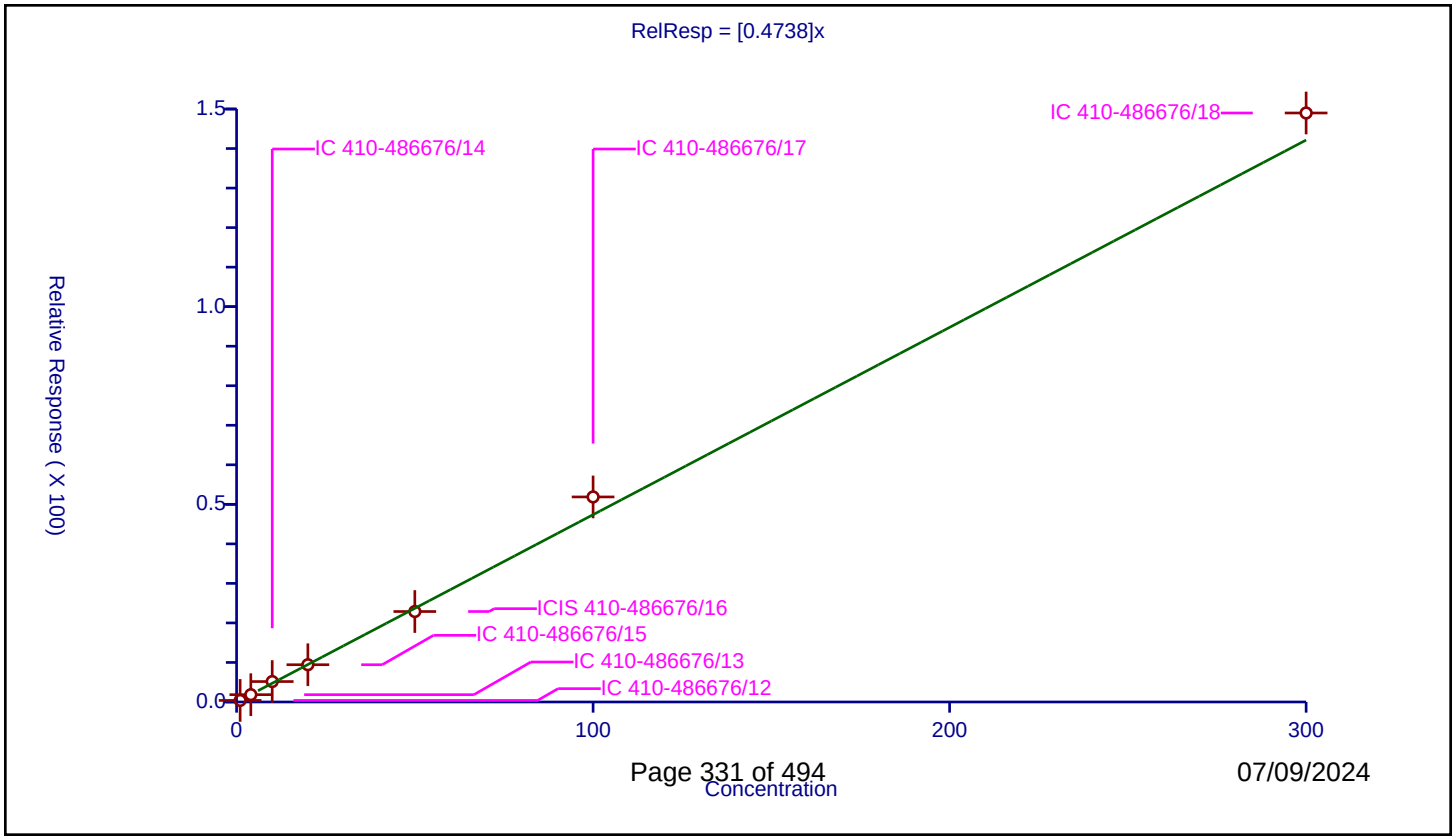
Curve Coefficients

Intercept:	0
Slope:	0.4738

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.393297	50.0	815032.0	0.393297	Y
2	IC 410-486676/13	4.0	1.849941	50.0	812080.0	0.462485	Y
3	IC 410-486676/14	10.0	5.167357	50.0	815146.0	0.516736	Y
4	IC 410-486676/15	20.0	9.424647	50.0	819097.0	0.471232	Y
5	ICIS 410-486676/16	50.0	22.88277	50.0	837226.0	0.457655	Y
6	IC 410-486676/17	100.0	51.870131	50.0	843096.0	0.518701	Y
7	IC 410-486676/18	300.0	148.997674	50.0	861945.0	0.496659	Y



Calibration / Pentane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

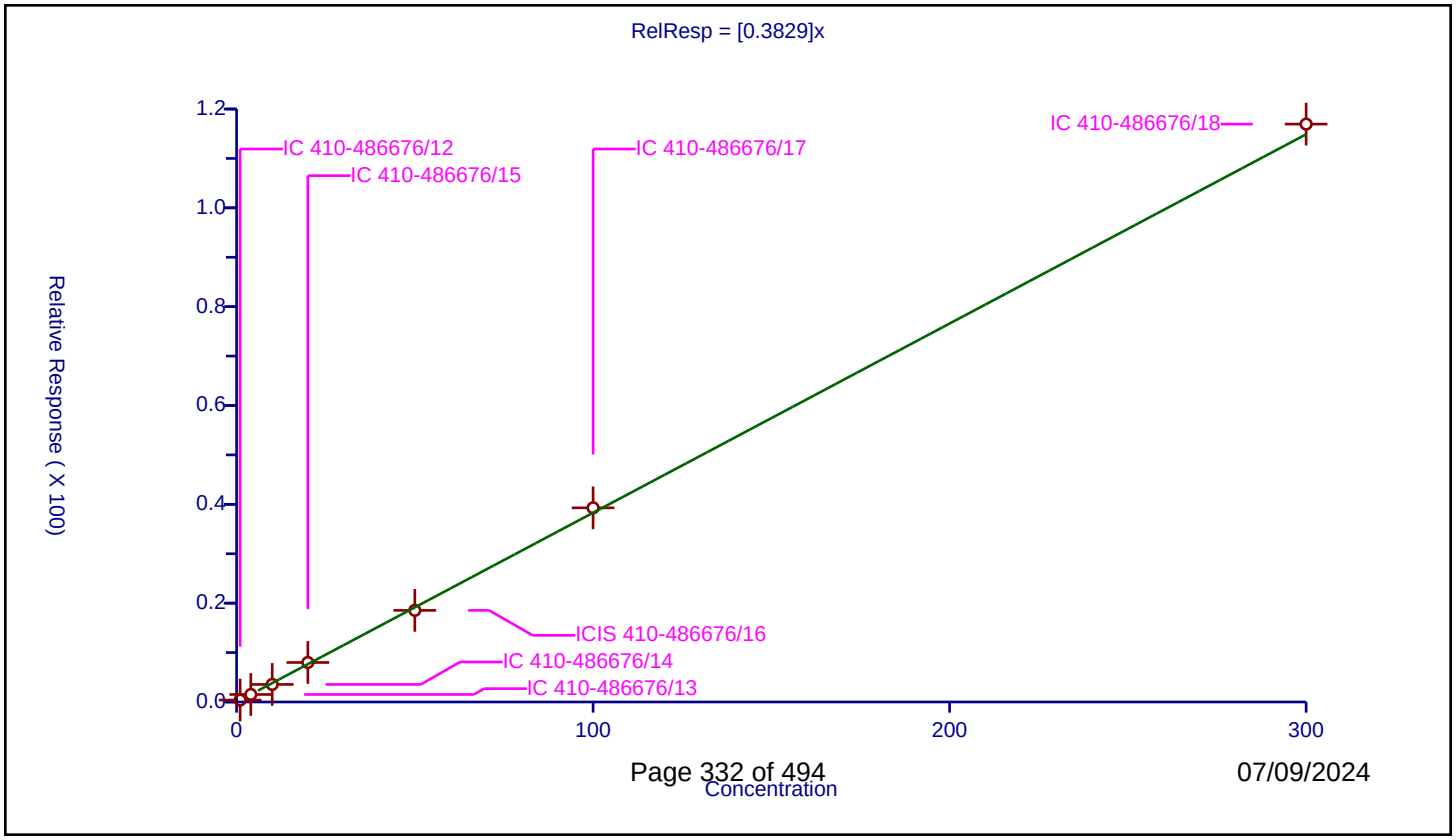
Curve Coefficients

Intercept:	0
Slope:	0.3829

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.39207	50.0	815032.0	0.39207	Y
2	IC 410-486676/13	4.0	1.51937	50.0	812080.0	0.379843	Y
3	IC 410-486676/14	10.0	3.554762	50.0	815146.0	0.355476	Y
4	IC 410-486676/15	20.0	7.993315	50.0	819097.0	0.399666	Y
5	ICIS 410-486676/16	50.0	18.54117	50.0	837226.0	0.370823	Y
6	IC 410-486676/17	100.0	39.291967	50.0	843096.0	0.39292	Y
7	IC 410-486676/18	300.0	116.944875	50.0	861945.0	0.389816	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

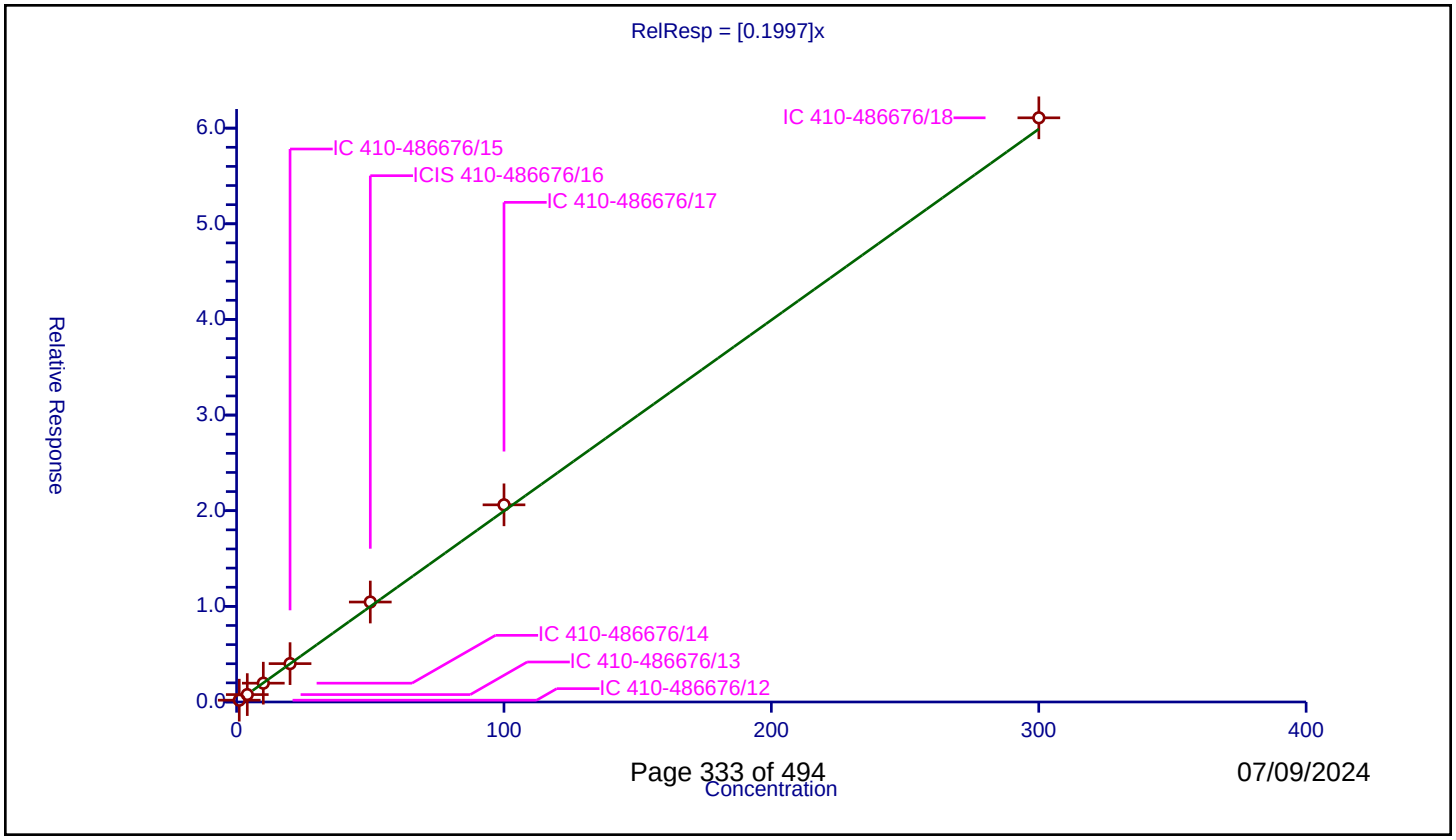
Curve Coefficients

Intercept:	0
Slope:	0.1997

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.000139	0.188275	50.0	815032.0	0.188249	Y
2	IC 410-486676/13	4.000554	0.774616	50.0	812080.0	0.193627	Y
3	IC 410-486676/14	10.001386	1.965967	50.0	815146.0	0.196569	Y
4	IC 410-486676/15	20.002772	4.010941	50.0	819097.0	0.200519	Y
5	ICIS 410-486676/16	50.00693	10.451837	50.0	837226.0	0.209008	Y
6	IC 410-486676/17	100.01386	20.613963	50.0	843096.0	0.206111	Y
7	IC 410-486676/18	300.04158	61.079593	50.0	861945.0	0.20357	Y



Calibration / 1,2-Dichloro-1,1,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

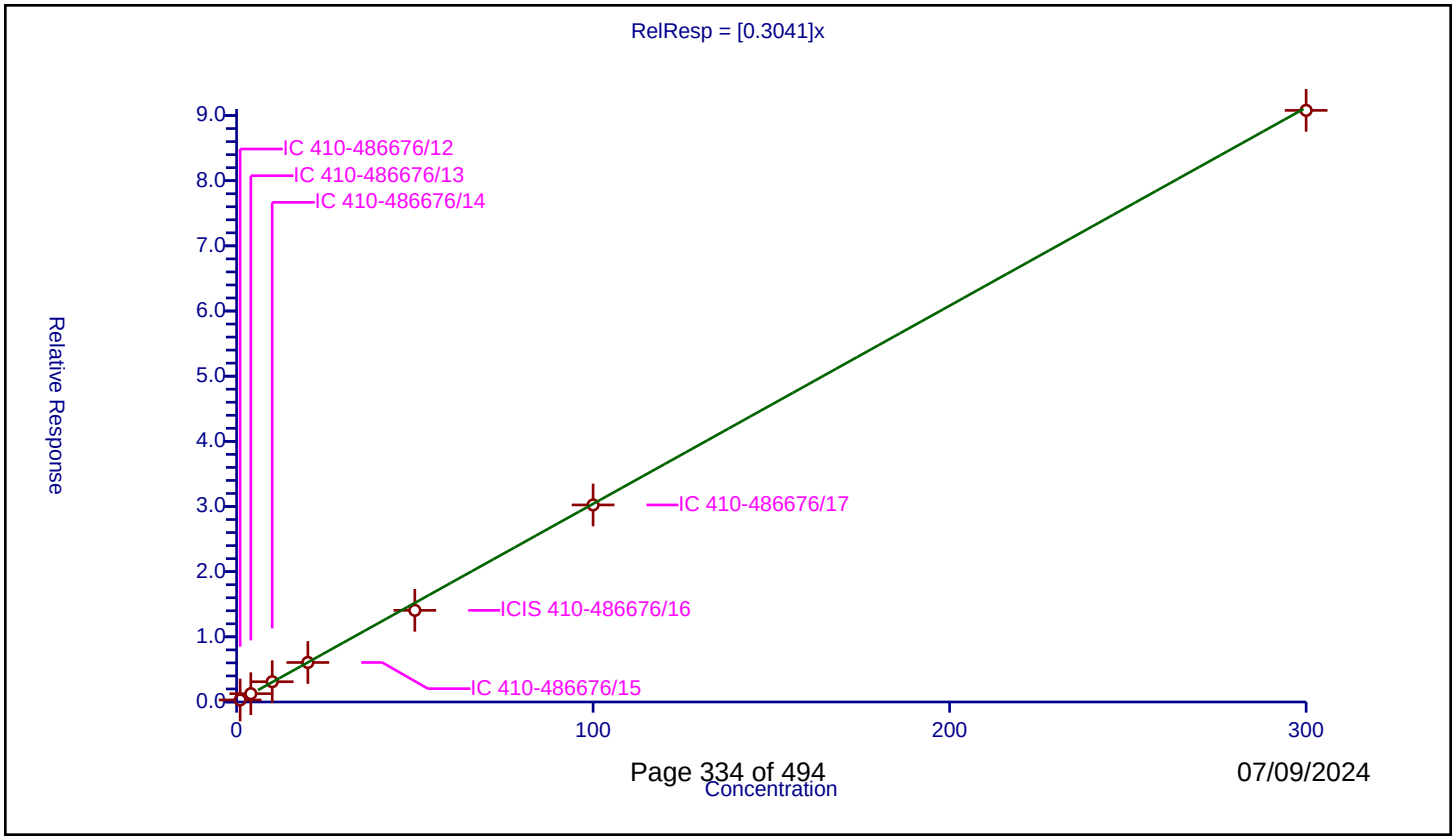
Curve Coefficients

Intercept:	0
Slope:	0.3041

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.309558	50.0	815032.0	0.309558	Y
2	IC 410-486676/13	4.0	1.273397	50.0	812080.0	0.318349	Y
3	IC 410-486676/14	10.0	3.110547	50.0	815146.0	0.311055	Y
4	IC 410-486676/15	20.0	6.063262	50.0	819097.0	0.303163	Y
5	ICIS 410-486676/16	50.0	14.0649	50.0	837226.0	0.281298	Y
6	IC 410-486676/17	100.0	30.241633	50.0	843096.0	0.302416	Y
7	IC 410-486676/18	300.0	90.789668	50.0	861945.0	0.302632	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

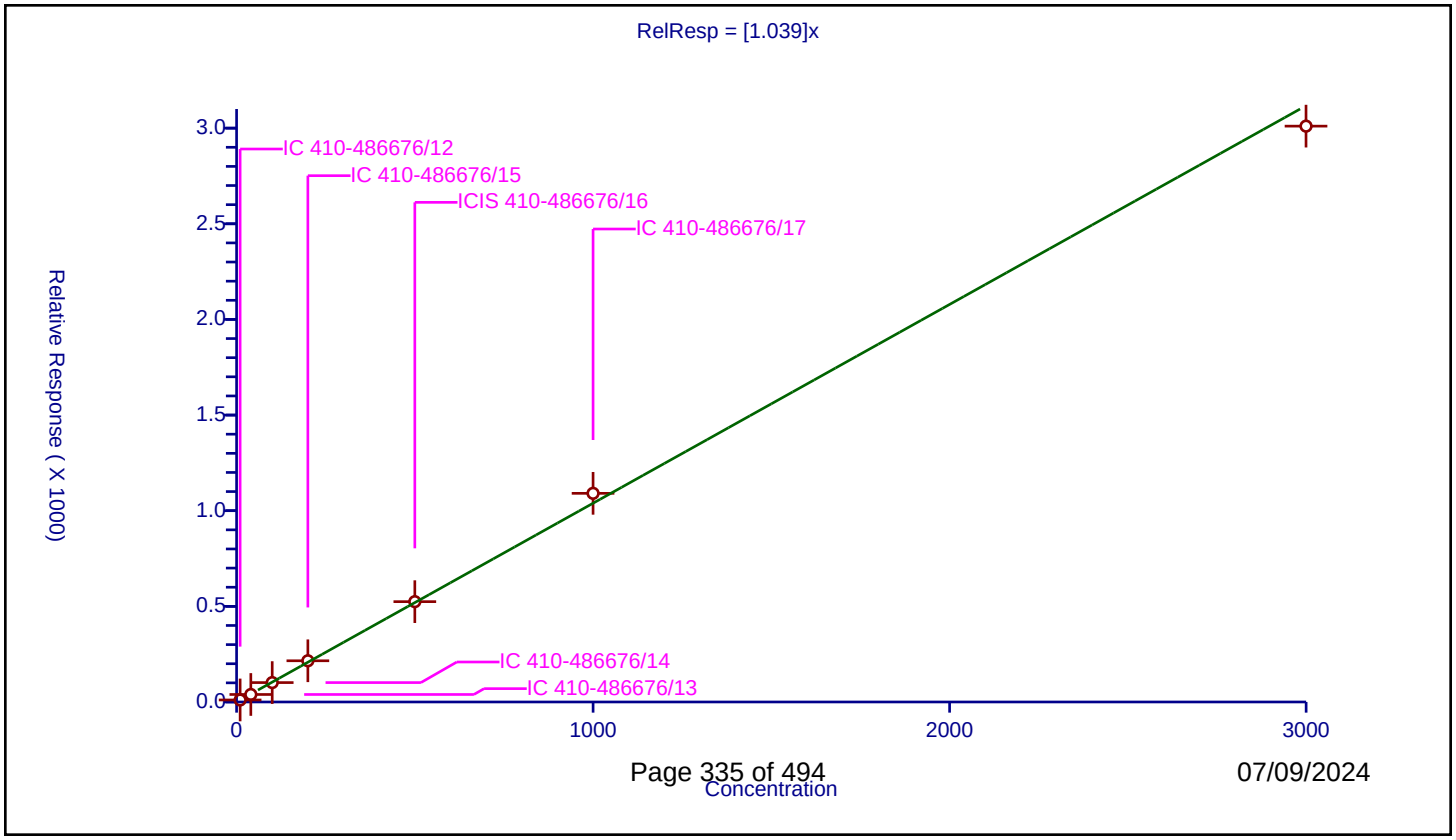
Curve Coefficients

Intercept:	0
Slope:	1.039

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	9.999153	10.594766	250.0	378418.0	1.059566	Y
2	IC 410-486676/13	39.99661	39.180002	250.0	365952.0	0.979583	Y
3	IC 410-486676/14	99.991525	101.418143	250.0	365901.0	1.014267	Y
4	IC 410-486676/15	199.98305	215.451065	250.0	391329.0	1.077347	Y
5	ICIS 410-486676/16	499.957626	524.55629	250.0	385838.0	1.049201	Y
6	IC 410-486676/17	999.915252	1090.838425	250.0	394299.0	1.090931	Y
7	IC 410-486676/18	2999.745756	3010.440985	250.0	415071.0	1.003565	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

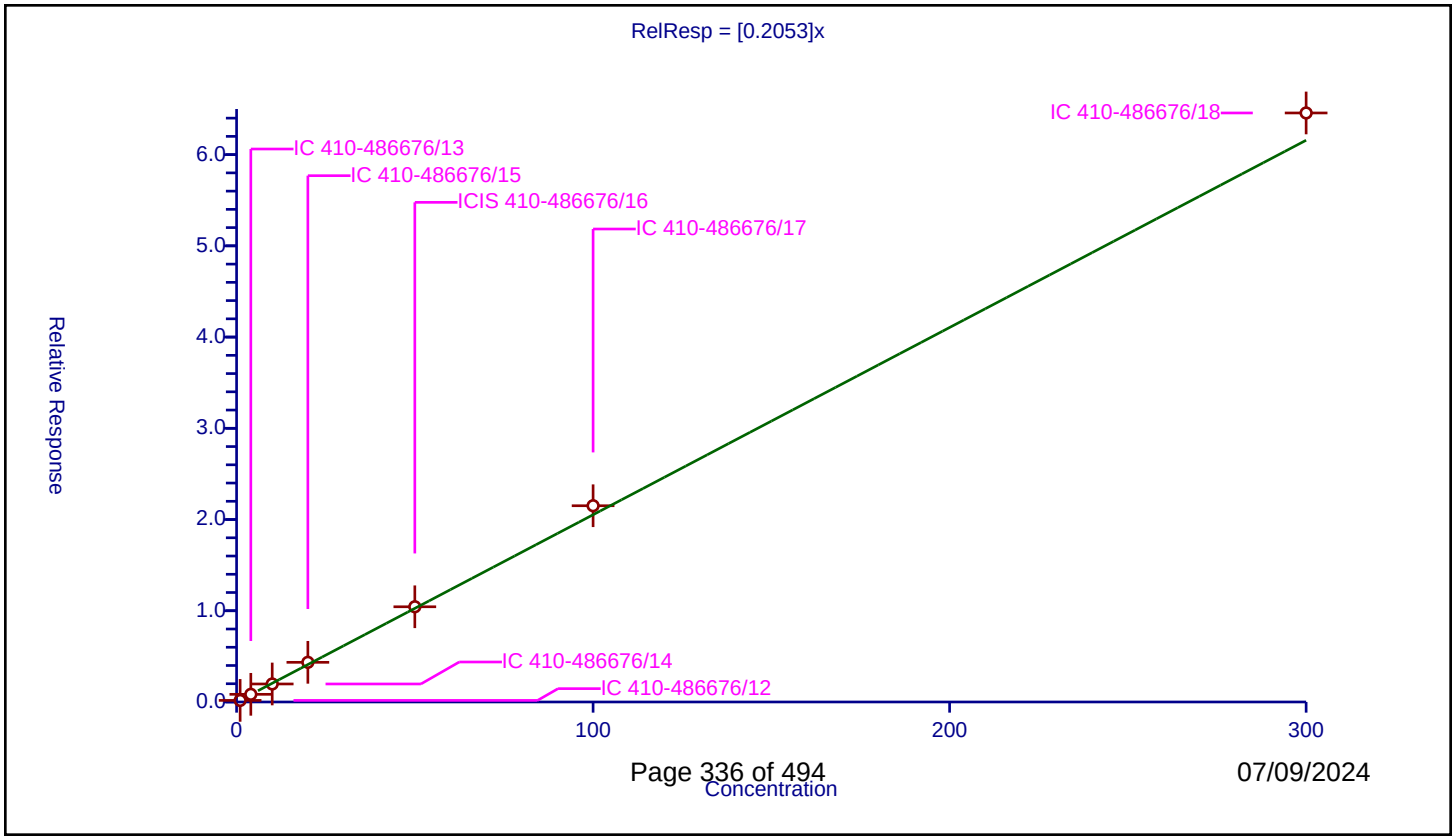
Curve Coefficients

Intercept:	0
Slope:	0.2053

Error Coefficients

Relative Standard Deviation:	7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.172447	50.0	815032.0	0.172447	Y
2	IC 410-486676/13	4.0	0.841481	50.0	812080.0	0.21037	Y
3	IC 410-486676/14	10.0	1.975229	50.0	815146.0	0.197523	Y
4	IC 410-486676/15	20.0	4.346921	50.0	819097.0	0.217346	Y
5	ICIS 410-486676/16	50.0	10.437385	50.0	837226.0	0.208748	Y
6	IC 410-486676/17	100.0	21.512082	50.0	843096.0	0.215121	Y
7	IC 410-486676/18	300.0	64.567751	50.0	861945.0	0.215226	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

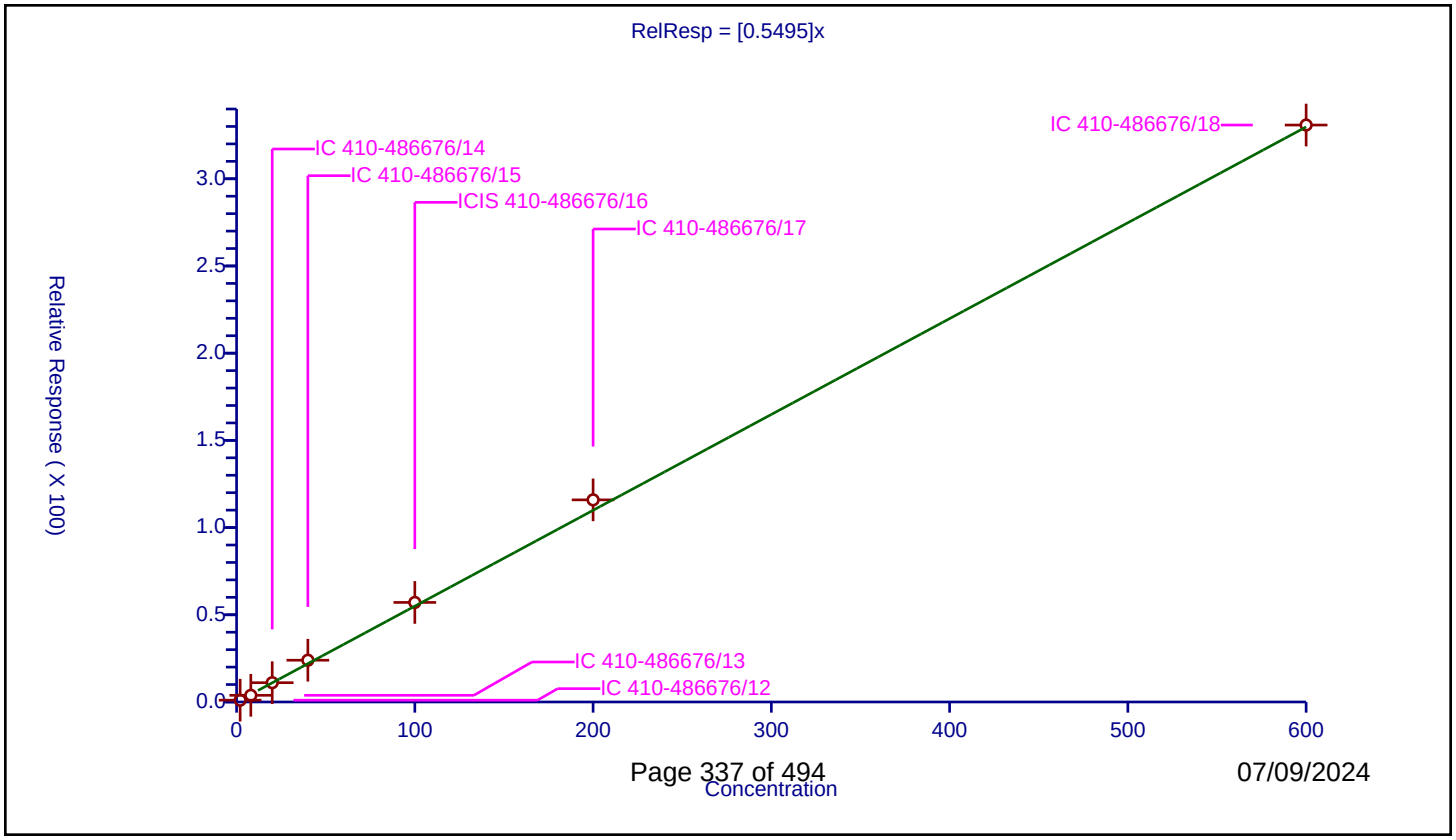
Curve Coefficients

Intercept:	0
Slope:	0.5495

Error Coefficients

Relative Standard Deviation:	7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	2.0	1.029285	250.0	378418.0	0.514643	Y
2	IC 410-486676/13	8.0	3.828371	250.0	365952.0	0.478546	Y
3	IC 410-486676/14	20.0	11.063785	250.0	365901.0	0.553189	Y
4	IC 410-486676/15	40.0	23.951074	250.0	391329.0	0.598777	Y
5	ICIS 410-486676/16	100.0	57.083543	250.0	385838.0	0.570835	Y
6	IC 410-486676/17	200.0	115.895551	250.0	394299.0	0.579478	Y
7	IC 410-486676/18	600.0	330.815692	250.0	415071.0	0.551359	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

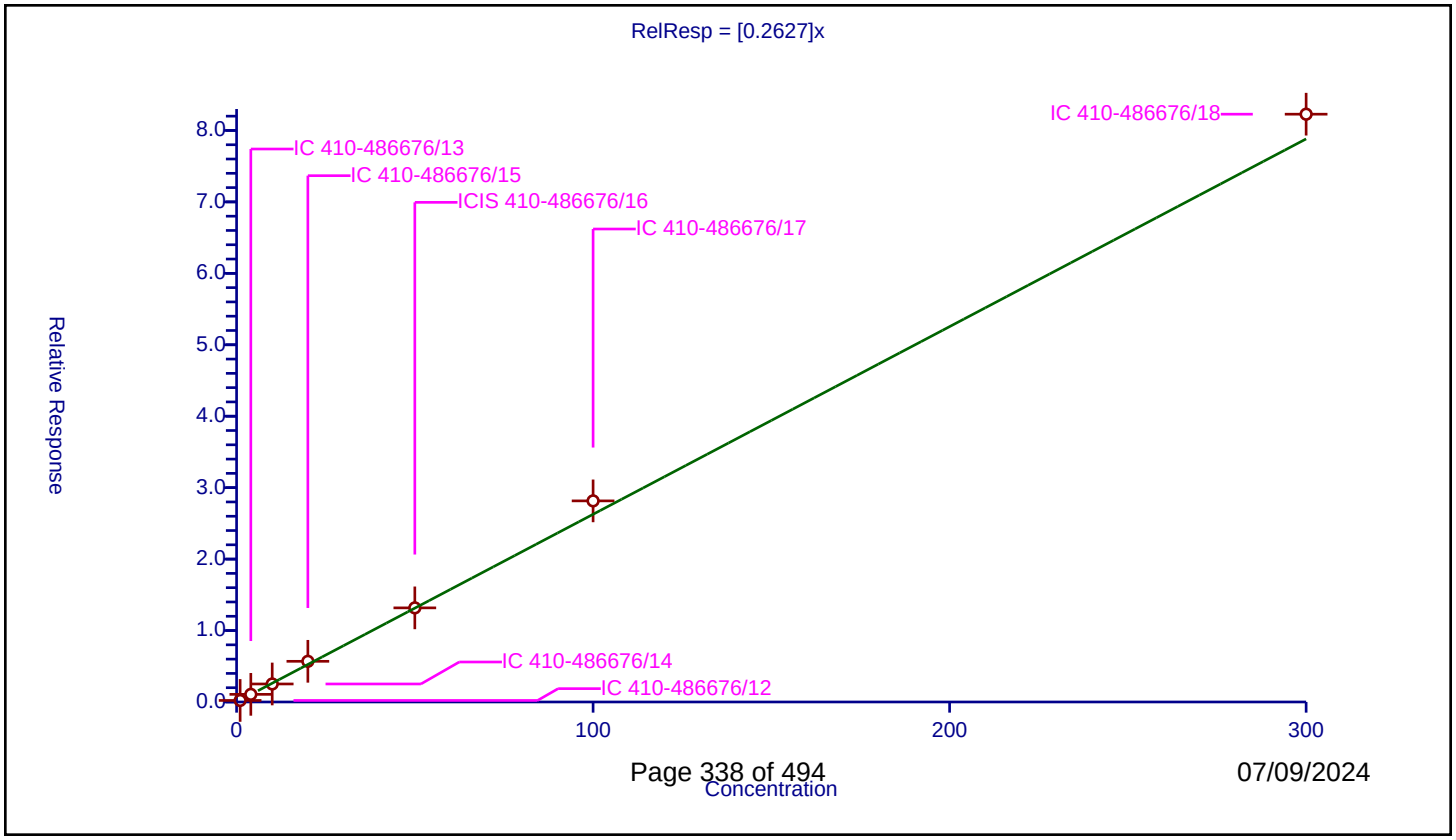
Curve Coefficients

Intercept:	0
Slope:	0.2627

Error Coefficients

Relative Standard Deviation:	8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.21582	50.0	815032.0	0.21582	Y
2	IC 410-486676/13	4.0	1.068491	50.0	812080.0	0.267123	Y
3	IC 410-486676/14	10.0	2.521573	50.0	815146.0	0.252157	Y
4	IC 410-486676/15	20.0	5.693892	50.0	819097.0	0.284695	Y
5	ICIS 410-486676/16	50.0	13.172608	50.0	837226.0	0.263452	Y
6	IC 410-486676/17	100.0	28.149523	50.0	843096.0	0.281495	Y
7	IC 410-486676/18	300.0	82.276827	50.0	861945.0	0.274256	Y



Calibration / Isopropyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

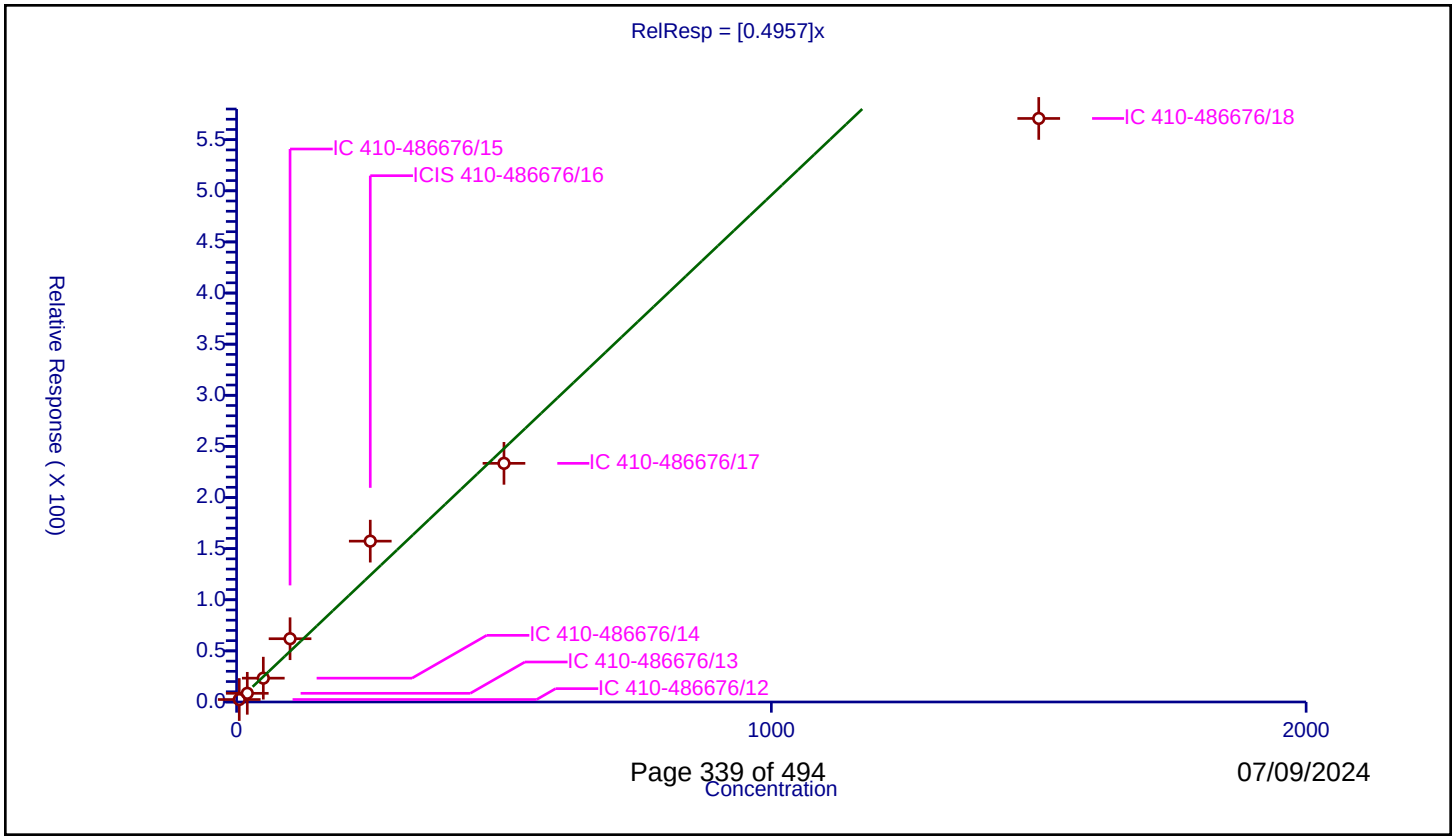
Curve Coefficients

Intercept:	0
Slope:	0.4957

Error Coefficients

Relative Standard Deviation:	19.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	5.0	2.418622	250.0	378418.0	0.483724	Y
2	IC 410-486676/13	20.0	8.4936	250.0	365952.0	0.42468	Y
3	IC 410-486676/14	50.0	23.314366	250.0	365901.0	0.466287	Y
4	IC 410-486676/15	100.0	61.880157	250.0	391329.0	0.618802	Y
5	ICIS 410-486676/16	250.0	157.323151	250.0	385838.0	0.629293	Y
6	IC 410-486676/17	500.0	233.436428	250.0	394299.0	0.466873	Y
7	IC 410-486676/18	1500.0	570.762592	250.0	415071.0	0.380508	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

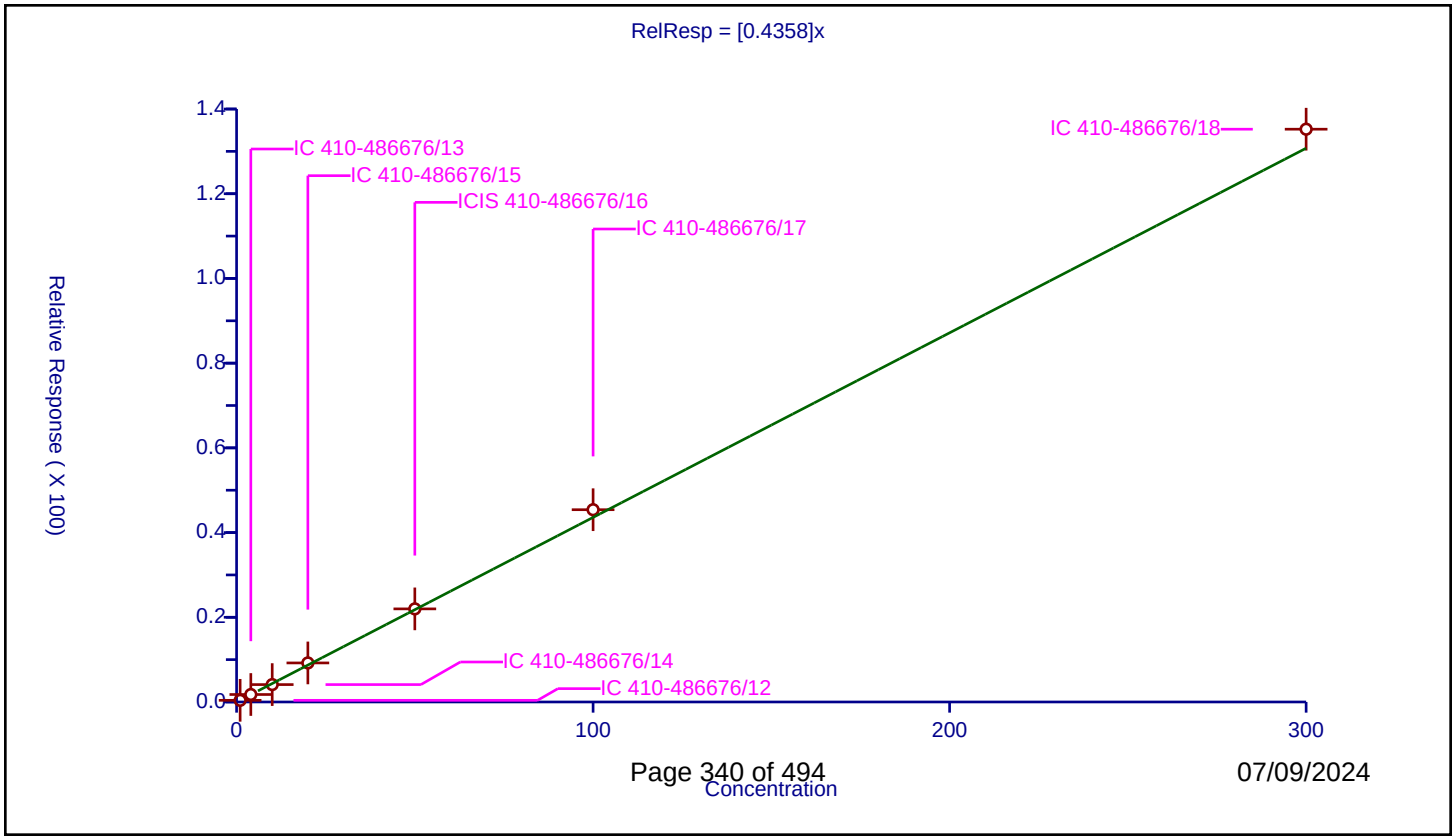
Curve Coefficients

Intercept:	0
Slope:	0.4358

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.393052	50.0	815032.0	0.393052	Y
2	IC 410-486676/13	4.0	1.764912	50.0	812080.0	0.441228	Y
3	IC 410-486676/14	10.0	4.108896	50.0	815146.0	0.41089	Y
4	IC 410-486676/15	20.0	9.222839	50.0	819097.0	0.461142	Y
5	ICIS 410-486676/16	50.0	21.979967	50.0	837226.0	0.439599	Y
6	IC 410-486676/17	100.0	45.396195	50.0	843096.0	0.453962	Y
7	IC 410-486676/18	300.0	135.233977	50.0	861945.0	0.45078	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

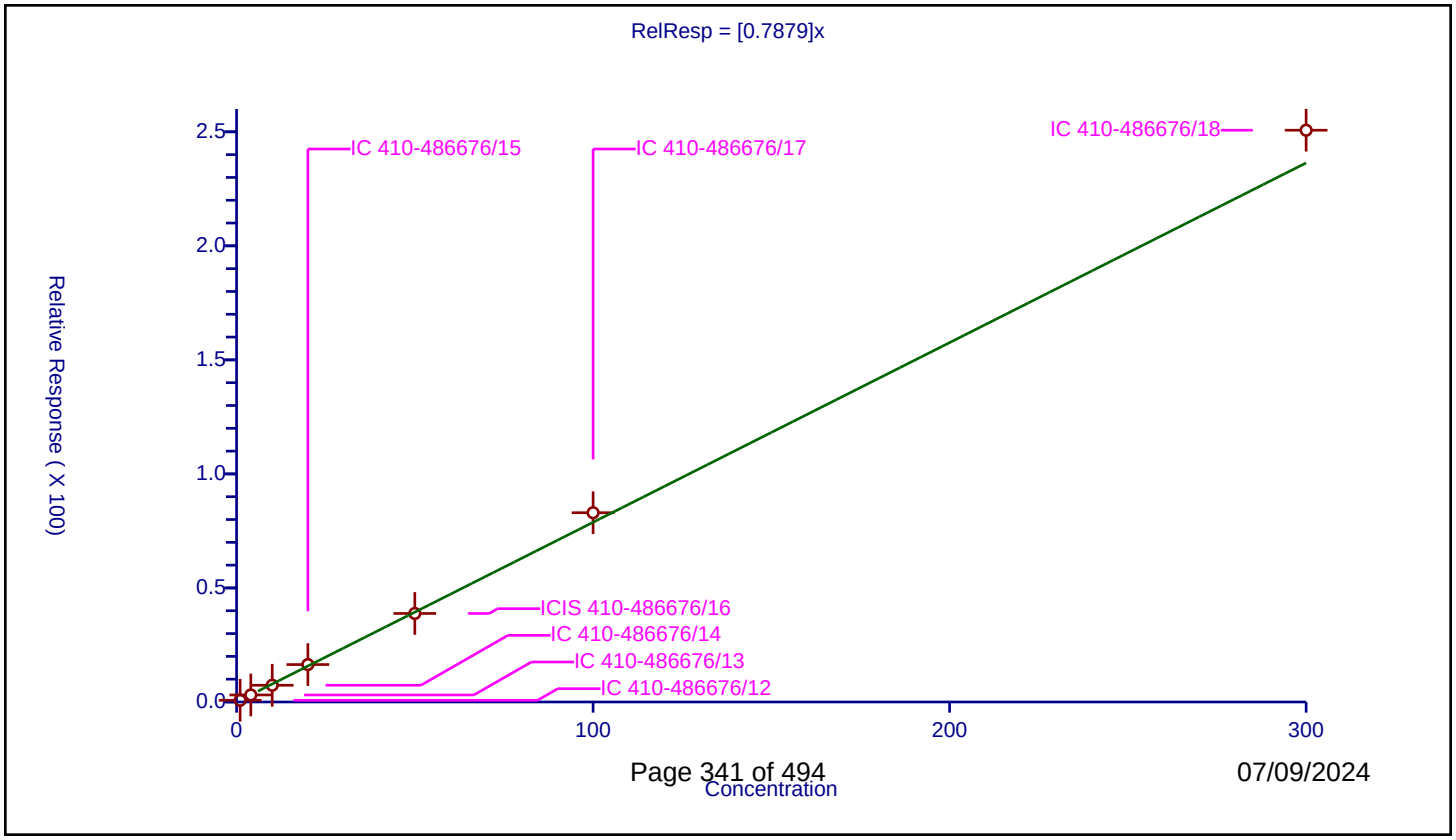
Curve Coefficients

Intercept:	0
Slope:	0.7879

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.747885	50.0	815032.0	0.747885	Y
2	IC 410-486676/13	4.0	3.086519	50.0	812080.0	0.77163	Y
3	IC 410-486676/14	10.0	7.334453	50.0	815146.0	0.733445	Y
4	IC 410-486676/15	20.0	16.40581	50.0	819097.0	0.820291	Y
5	ICIS 410-486676/16	50.0	38.81443	50.0	837226.0	0.776289	Y
6	IC 410-486676/17	100.0	82.989244	50.0	843096.0	0.829892	Y
7	IC 410-486676/18	300.0	250.702017	50.0	861945.0	0.835673	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

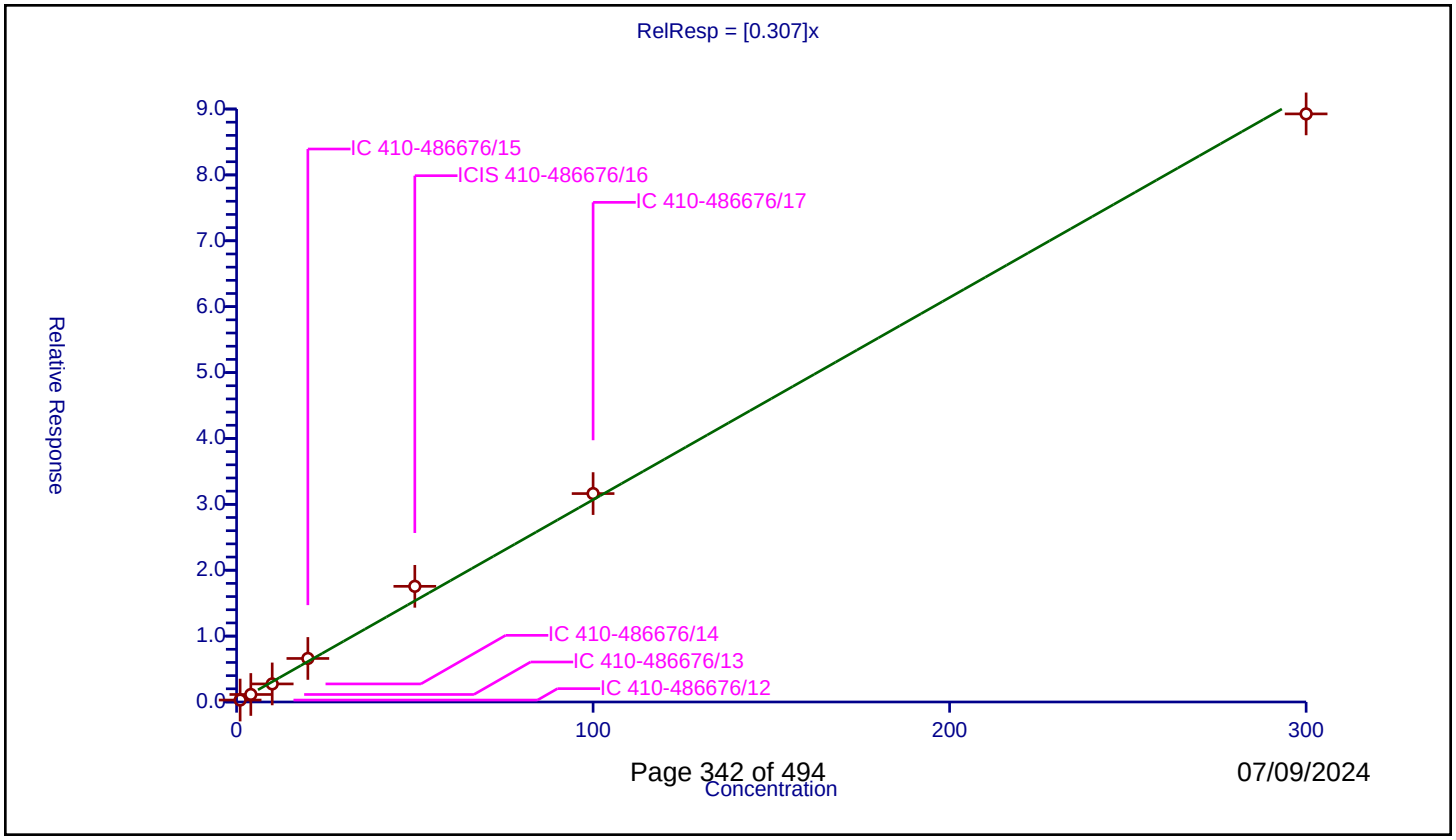
Curve Coefficients

Intercept:	0
Slope:	0.307

Error Coefficients

Relative Standard Deviation:	8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.294222	50.0	815032.0	0.294222	Y
2	IC 410-486676/13	4.0	1.139728	50.0	812080.0	0.284932	Y
3	IC 410-486676/14	10.0	2.742515	50.0	815146.0	0.274251	Y
4	IC 410-486676/15	20.0	6.607337	50.0	819097.0	0.330367	Y
5	ICIS 410-486676/16	50.0	17.554758	50.0	837226.0	0.351095	Y
6	IC 410-486676/17	100.0	31.631866	50.0	843096.0	0.316319	Y
7	IC 410-486676/18	300.0	89.259756	50.0	861945.0	0.297533	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

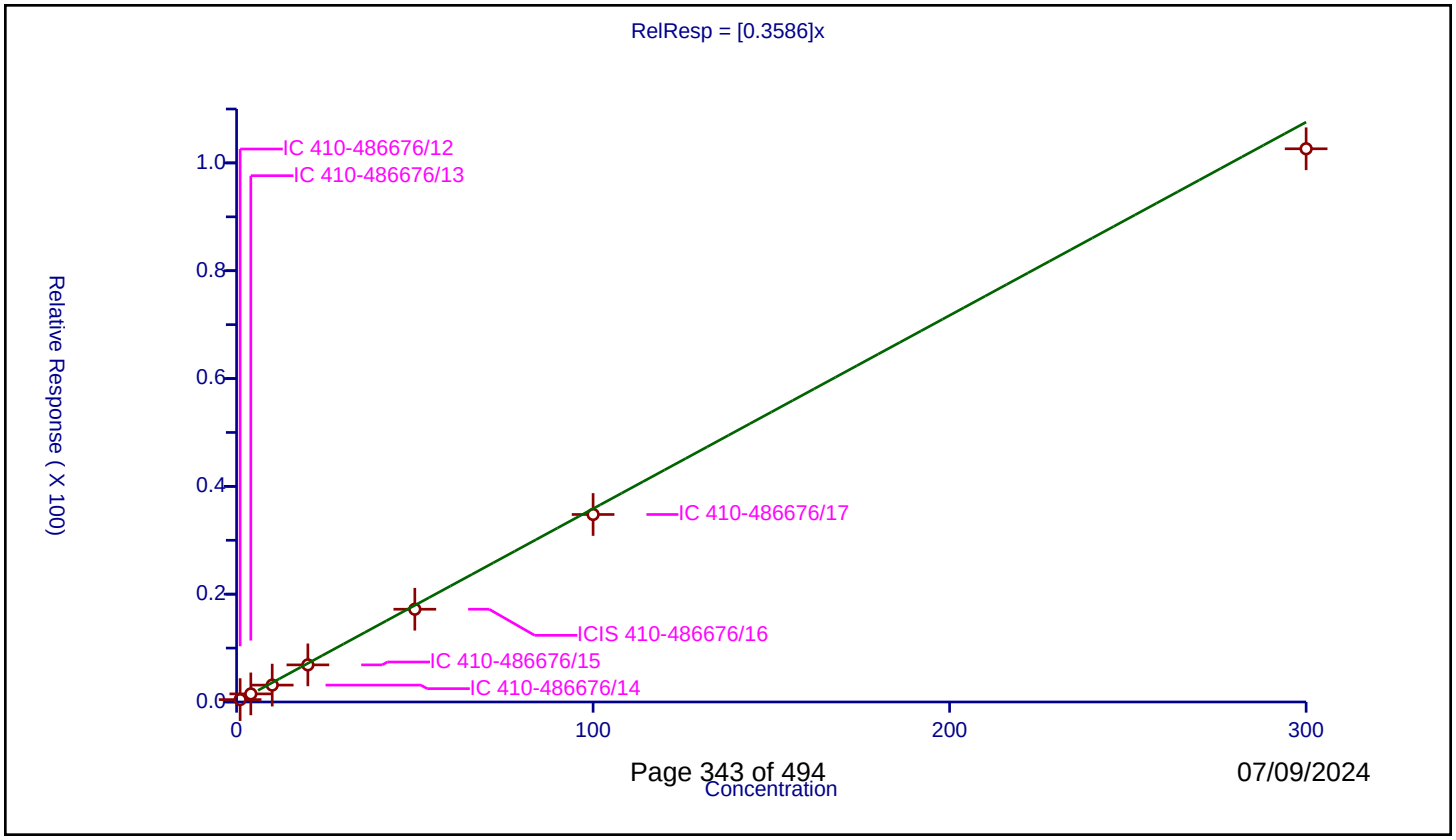
Curve Coefficients

Intercept:	0
Slope:	0.3586

Error Coefficients

Relative Standard Deviation:	11.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.442866	50.0	815032.0	0.442866	Y
2	IC 410-486676/13	4.0	1.501515	50.0	812080.0	0.375379	Y
3	IC 410-486676/14	10.0	3.135573	50.0	815146.0	0.313557	Y
4	IC 410-486676/15	20.0	6.881664	50.0	819097.0	0.344083	Y
5	ICIS 410-486676/16	50.0	17.206226	50.0	837226.0	0.344125	Y
6	IC 410-486676/17	100.0	34.784414	50.0	843096.0	0.347844	Y
7	IC 410-486676/18	300.0	102.624993	50.0	861945.0	0.342083	Y



Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

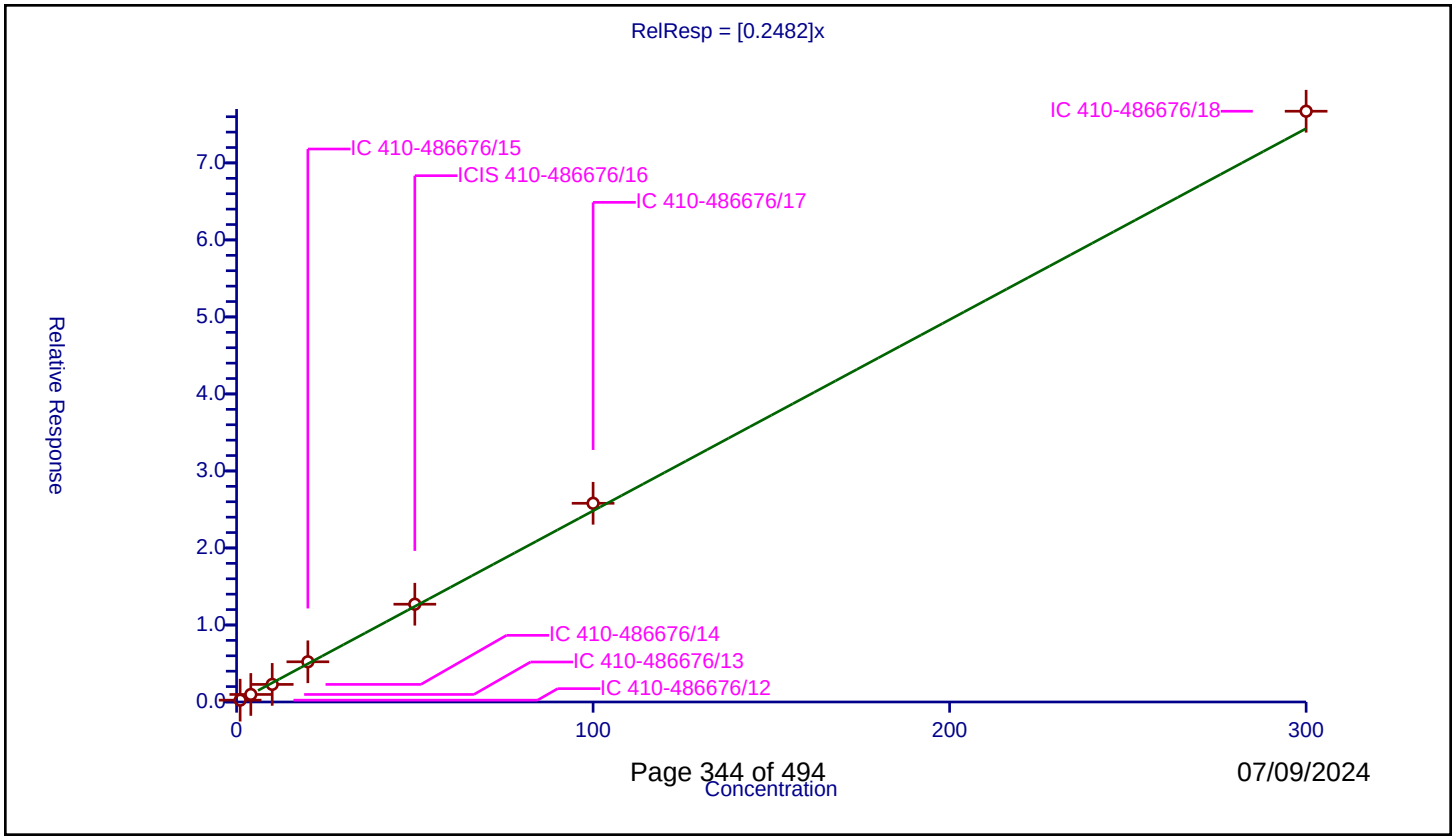
Curve Coefficients

Intercept:	0
Slope:	0.2482

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.235696	50.0	815032.0	0.235696	Y
2	IC 410-486676/13	4.0	0.978413	50.0	812080.0	0.244603	Y
3	IC 410-486676/14	10.0	2.285296	50.0	815146.0	0.22853	Y
4	IC 410-486676/15	20.0	5.220444	50.0	819097.0	0.261022	Y
5	ICIS 410-486676/16	50.0	12.696572	50.0	837226.0	0.253931	Y
6	IC 410-486676/17	100.0	25.802815	50.0	843096.0	0.258028	Y
7	IC 410-486676/18	300.0	76.713943	50.0	861945.0	0.255713	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

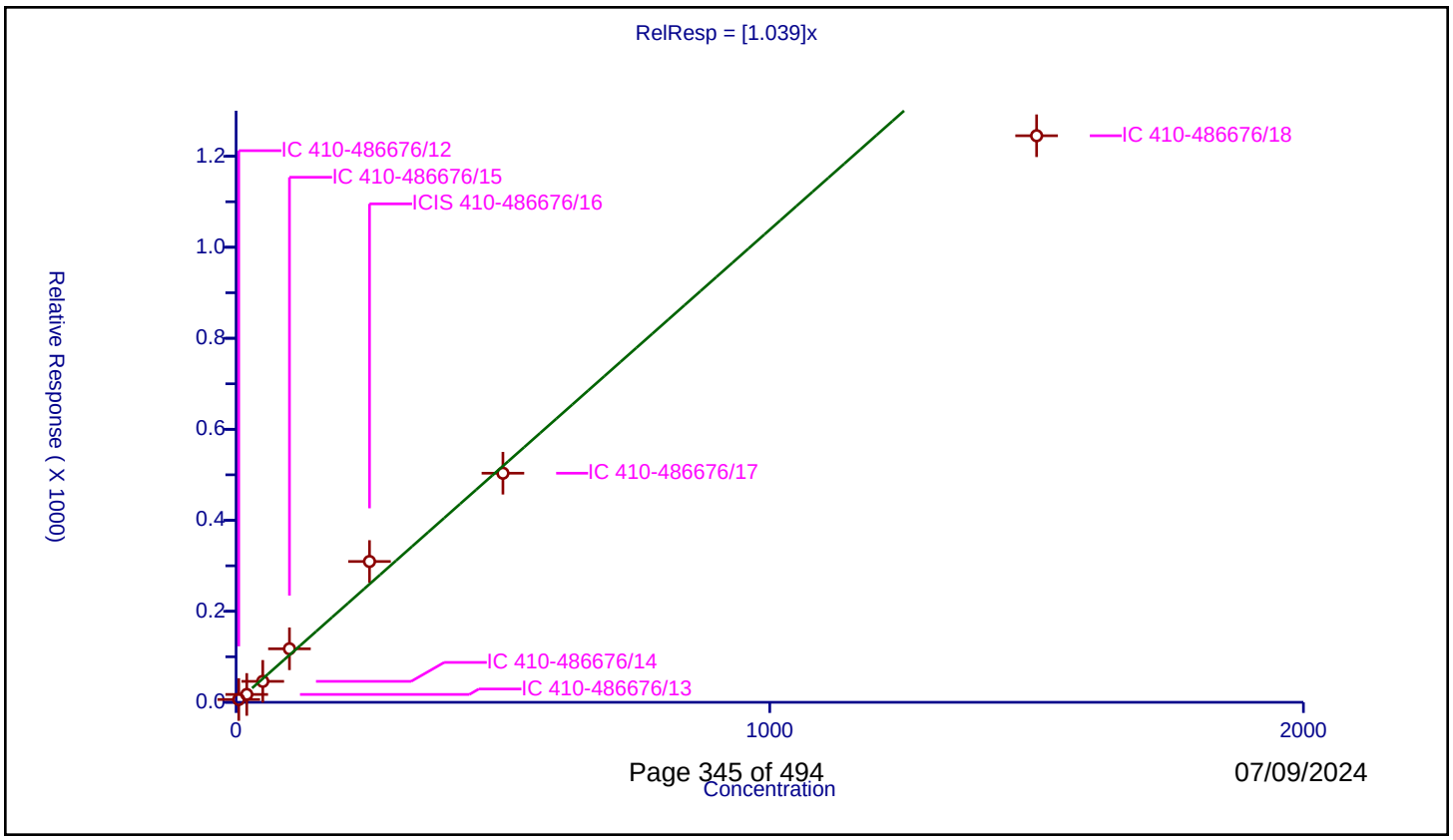
Curve Coefficients

Intercept:	0
Slope:	1.039

Error Coefficients

Relative Standard Deviation:	16.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	5.0	6.163819	250.0	378418.0	1.232764	Y
2	IC 410-486676/13	20.0	17.301449	250.0	365952.0	0.865072	Y
3	IC 410-486676/14	50.0	46.051391	250.0	365901.0	0.921028	Y
4	IC 410-486676/15	100.0	117.595425	250.0	391329.0	1.175954	Y
5	ICIS 410-486676/16	250.0	309.486106	250.0	385838.0	1.237944	Y
6	IC 410-486676/17	500.0	503.494176	250.0	394299.0	1.006988	Y
7	IC 410-486676/18	1500.0	1245.080962	250.0	415071.0	0.830054	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

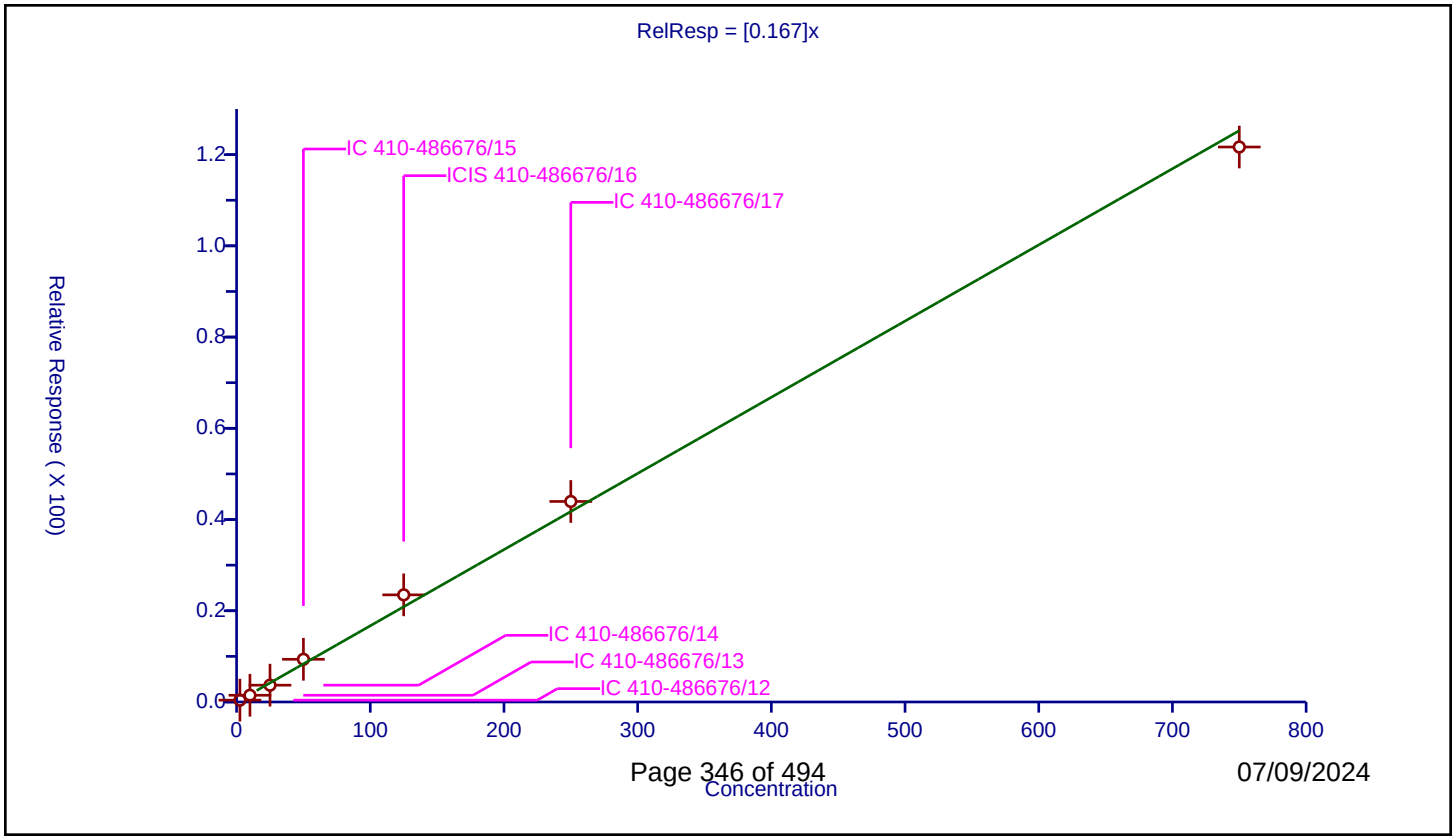
Curve Coefficients

Intercept:	0
Slope:	0.167

Error Coefficients

Relative Standard Deviation:	10.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	2.5	0.402684	50.0	815032.0	0.161073	Y
2	IC 410-486676/13	10.0	1.474547	50.0	812080.0	0.147455	Y
3	IC 410-486676/14	25.0	3.683267	50.0	815146.0	0.147331	Y
4	IC 410-486676/15	50.0	9.363726	50.0	819097.0	0.187275	Y
5	ICIS 410-486676/16	125.0	23.485415	50.0	837226.0	0.187883	Y
6	IC 410-486676/17	250.0	43.959051	50.0	843096.0	0.175836	Y
7	IC 410-486676/18	750.0	121.670292	50.0	861945.0	0.162227	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

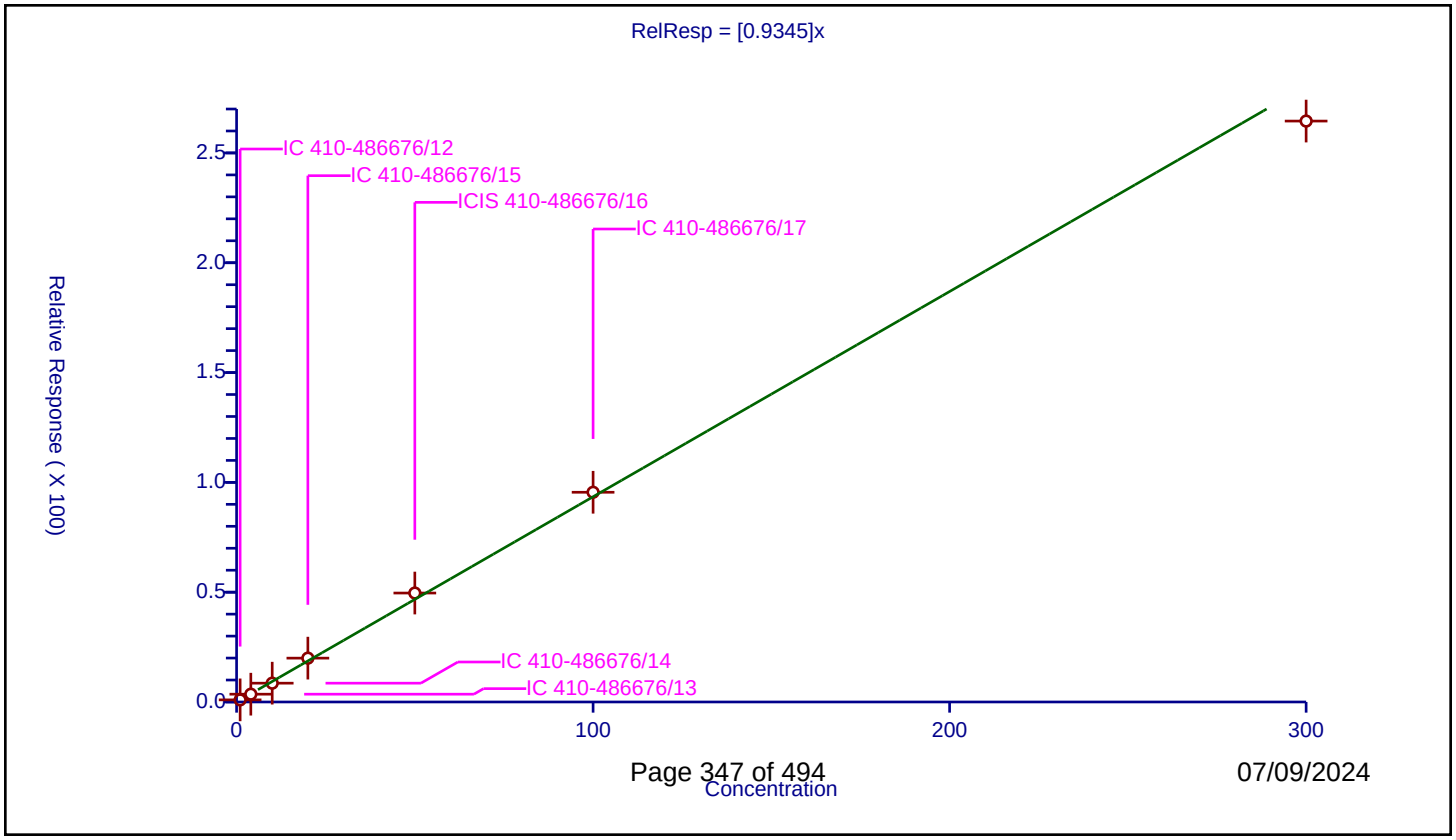
Curve Coefficients

Intercept:	0
Slope:	0.9345

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.969348	50.0	815032.0	0.969348	Y
2	IC 410-486676/13	4.0	3.553468	50.0	812080.0	0.888367	Y
3	IC 410-486676/14	10.0	8.568097	50.0	815146.0	0.85681	Y
4	IC 410-486676/15	20.0	19.965035	50.0	819097.0	0.998252	Y
5	ICIS 410-486676/16	50.0	49.609604	50.0	837226.0	0.992192	Y
6	IC 410-486676/17	100.0	95.491913	50.0	843096.0	0.954919	Y
7	IC 410-486676/18	300.0	264.514441	50.0	861945.0	0.881715	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

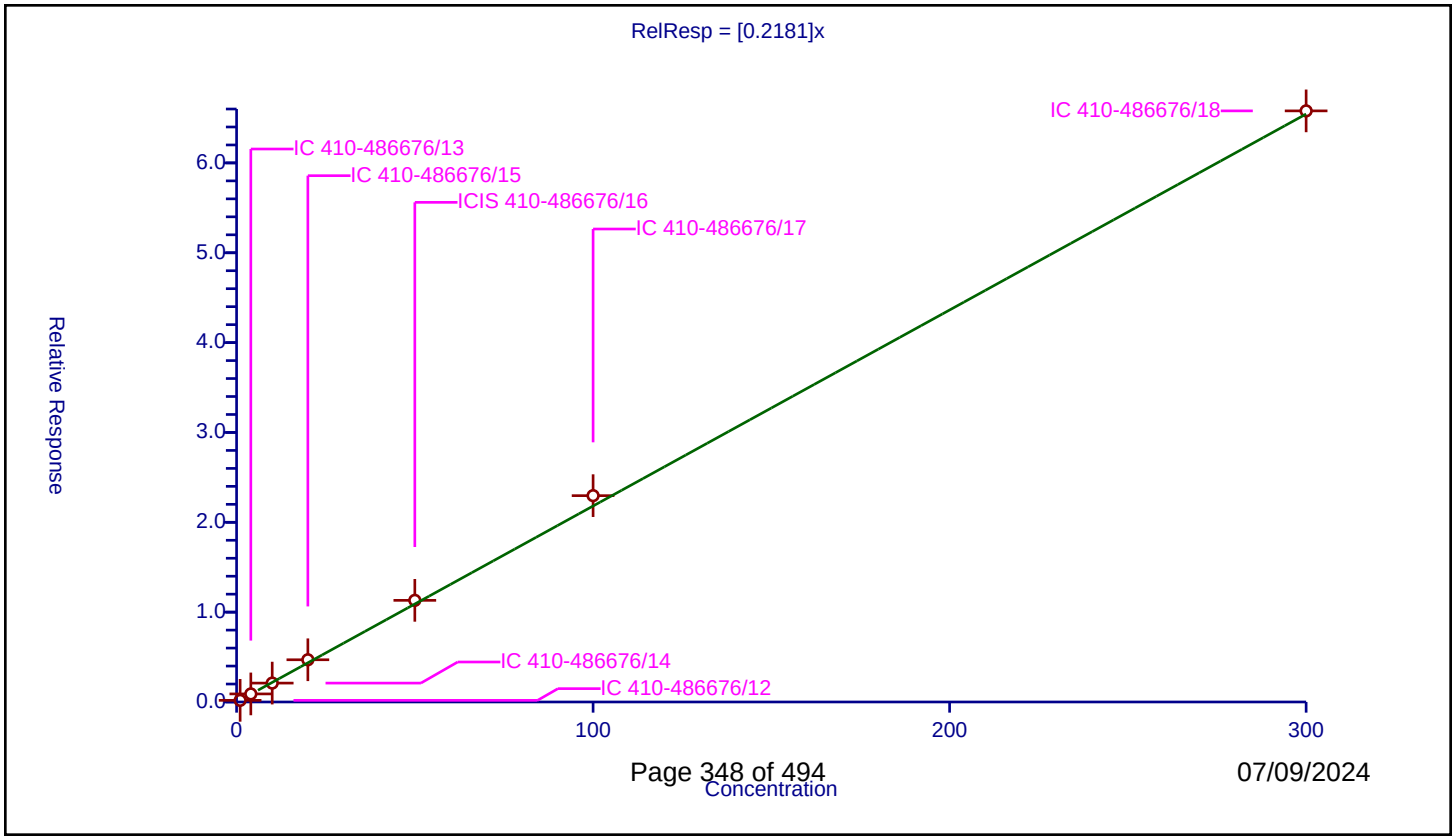
Curve Coefficients

Intercept:	0
Slope:	0.2181

Error Coefficients

Relative Standard Deviation:	8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.182201	50.0	815032.0	0.182201	Y
2	IC 410-486676/13	4.0	0.897141	50.0	812080.0	0.224285	Y
3	IC 410-486676/14	10.0	2.103488	50.0	815146.0	0.210349	Y
4	IC 410-486676/15	20.0	4.698589	50.0	819097.0	0.234929	Y
5	ICIS 410-486676/16	50.0	11.313313	50.0	837226.0	0.226266	Y
6	IC 410-486676/17	100.0	22.966009	50.0	843096.0	0.22966	Y
7	IC 410-486676/18	300.0	65.791205	50.0	861945.0	0.219304	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

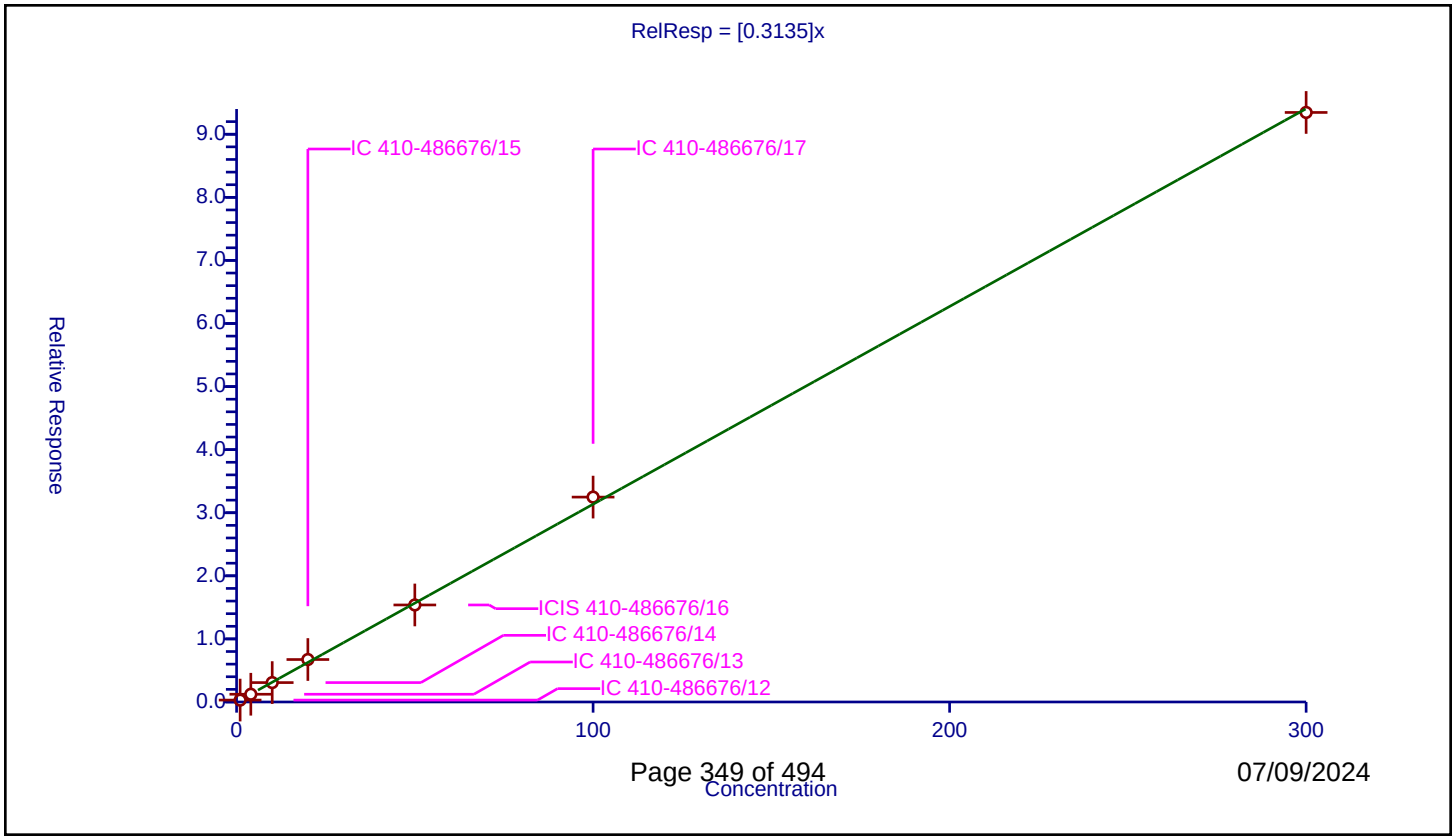
Curve Coefficients

Intercept:	0
Slope:	0.3135

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.300111	50.0	815032.0	0.300111	Y
2	IC 410-486676/13	4.0	1.226295	50.0	812080.0	0.306574	Y
3	IC 410-486676/14	10.0	3.073253	50.0	815146.0	0.307325	Y
4	IC 410-486676/15	20.0	6.729972	50.0	819097.0	0.336499	Y
5	ICIS 410-486676/16	50.0	15.38157	50.0	837226.0	0.307631	Y
6	IC 410-486676/17	100.0	32.481592	50.0	843096.0	0.324816	Y
7	IC 410-486676/18	300.0	93.456311	50.0	861945.0	0.311521	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

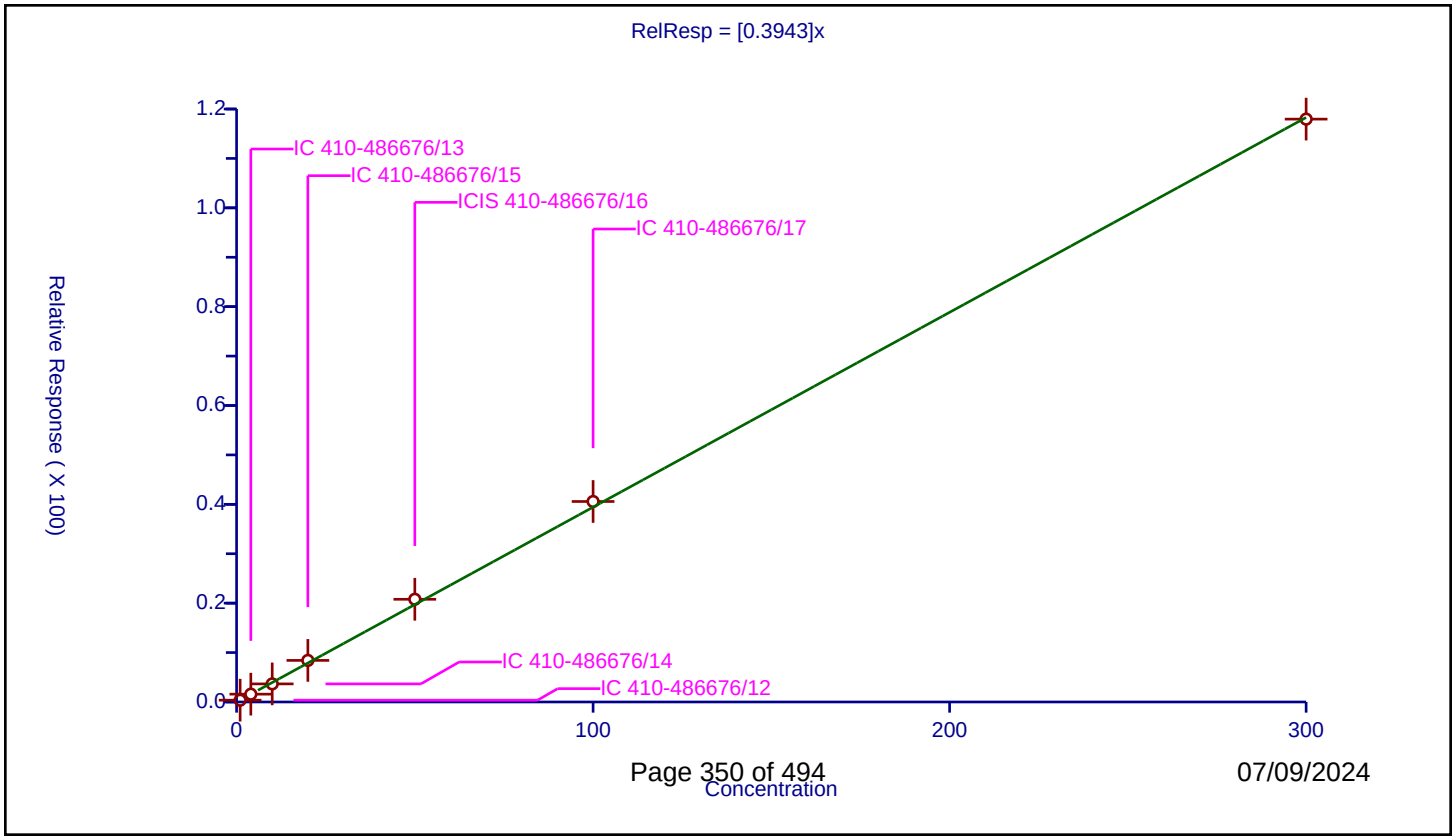
Curve Coefficients

Intercept:	0
Slope:	0.3943

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.363176	50.0	815032.0	0.363176	Y
2	IC 410-486676/13	4.0	1.581864	50.0	812080.0	0.395466	Y
3	IC 410-486676/14	10.0	3.660019	50.0	815146.0	0.366002	Y
4	IC 410-486676/15	20.0	8.413778	50.0	819097.0	0.420689	Y
5	ICIS 410-486676/16	50.0	20.786084	50.0	837226.0	0.415722	Y
6	IC 410-486676/17	100.0	40.576162	50.0	843096.0	0.405762	Y
7	IC 410-486676/18	300.0	117.955786	50.0	861945.0	0.393186	Y



Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

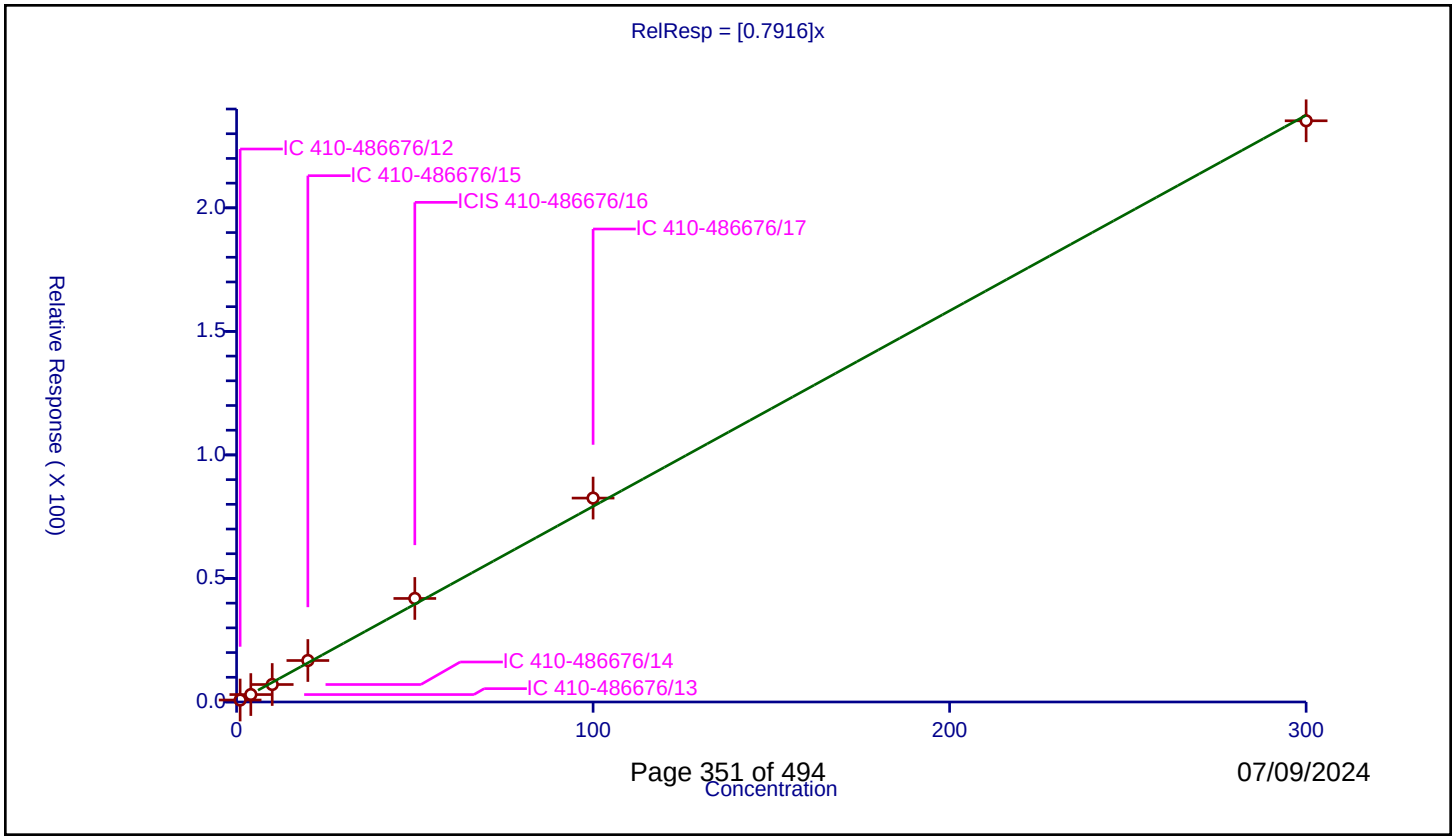
Curve Coefficients

Intercept:	0
Slope:	0.7916

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.793957	50.0	815032.0	0.793957	Y
2	IC 410-486676/13	4.0	3.011033	50.0	812080.0	0.752758	Y
3	IC 410-486676/14	10.0	7.079039	50.0	815146.0	0.707904	Y
4	IC 410-486676/15	20.0	16.785558	50.0	819097.0	0.839278	Y
5	ICIS 410-486676/16	50.0	41.906009	50.0	837226.0	0.83812	Y
6	IC 410-486676/17	100.0	82.525715	50.0	843096.0	0.825257	Y
7	IC 410-486676/18	300.0	235.240068	50.0	861945.0	0.784134	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

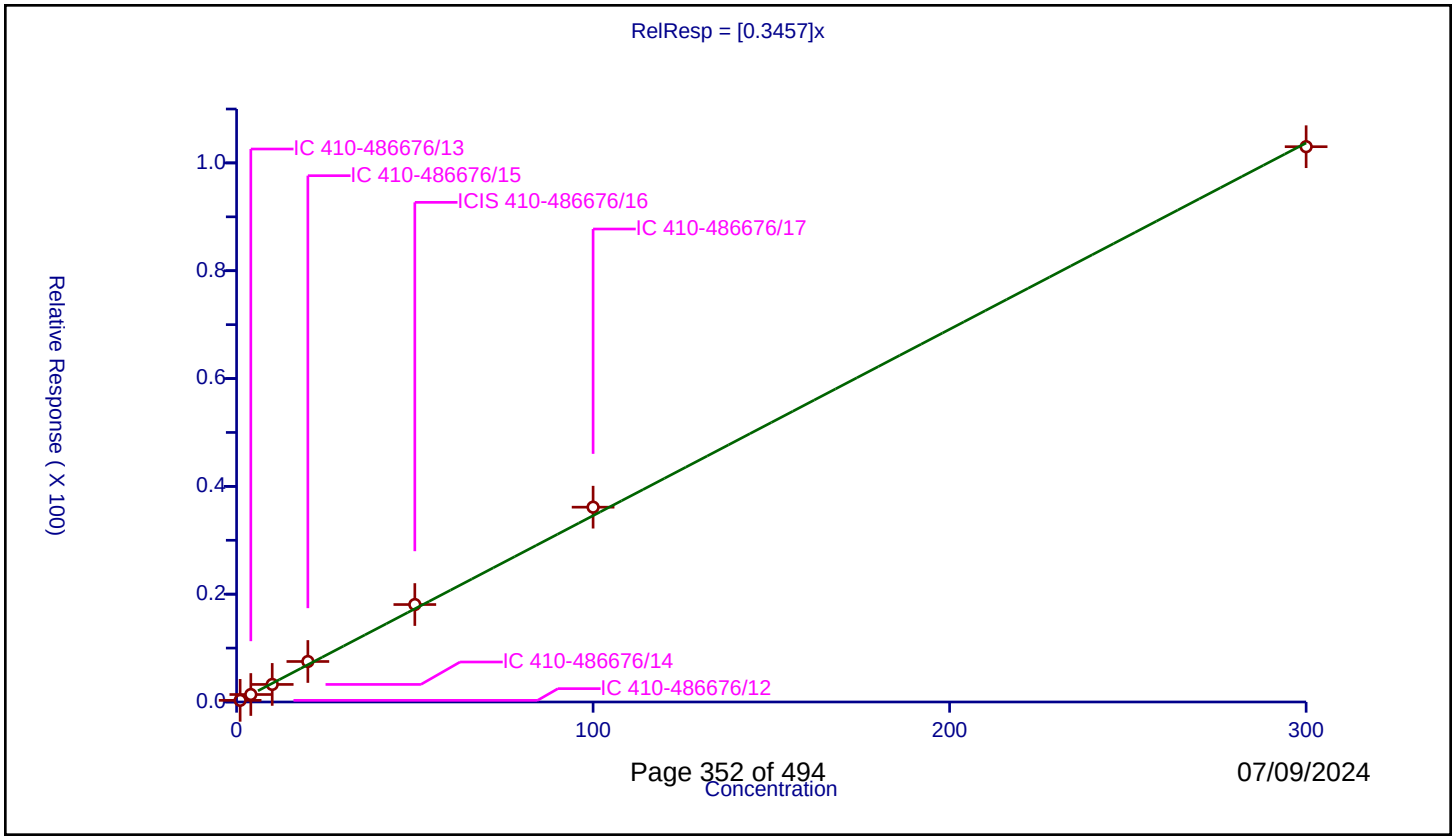
Curve Coefficients

Intercept:	0
Slope:	0.3457

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.305325	50.0	815032.0	0.305325	Y
2	IC 410-486676/13	4.0	1.387917	50.0	812080.0	0.346979	Y
3	IC 410-486676/14	10.0	3.255981	50.0	815146.0	0.325598	Y
4	IC 410-486676/15	20.0	7.509855	50.0	819097.0	0.375493	Y
5	ICIS 410-486676/16	50.0	18.076839	50.0	837226.0	0.361537	Y
6	IC 410-486676/17	100.0	36.137166	50.0	843096.0	0.361372	Y
7	IC 410-486676/18	300.0	103.008661	50.0	861945.0	0.343362	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

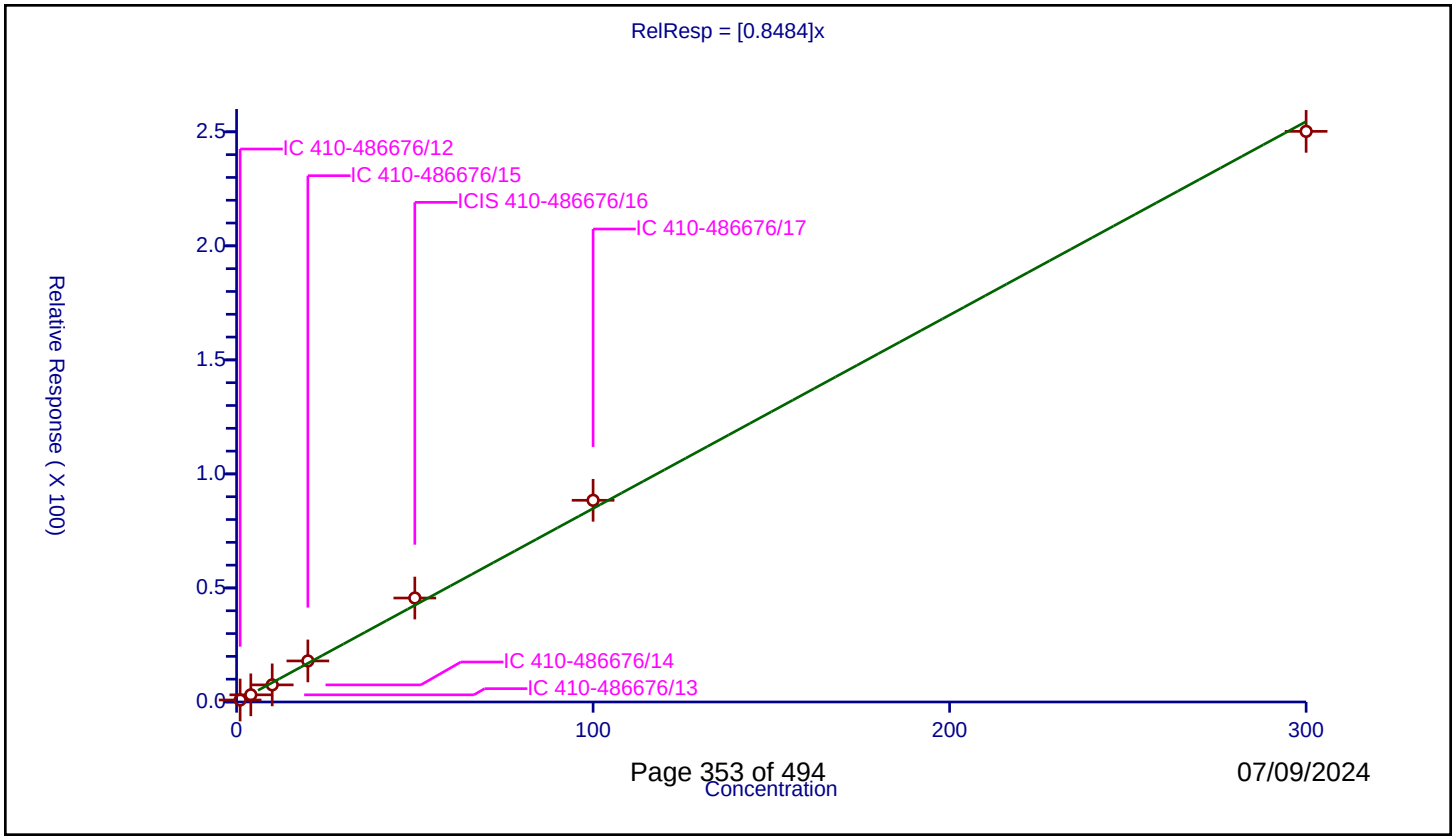
Curve Coefficients

Intercept:	0
Slope:	0.8484

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.872726	50.0	815032.0	0.872726	Y
2	IC 410-486676/13	4.0	3.142301	50.0	812080.0	0.785575	Y
3	IC 410-486676/14	10.0	7.504361	50.0	815146.0	0.750436	Y
4	IC 410-486676/15	20.0	17.996281	50.0	819097.0	0.899814	Y
5	ICIS 410-486676/16	50.0	45.584466	50.0	837226.0	0.911689	Y
6	IC 410-486676/17	100.0	88.439929	50.0	843096.0	0.884399	Y
7	IC 410-486676/18	300.0	250.19717	50.0	861945.0	0.833991	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

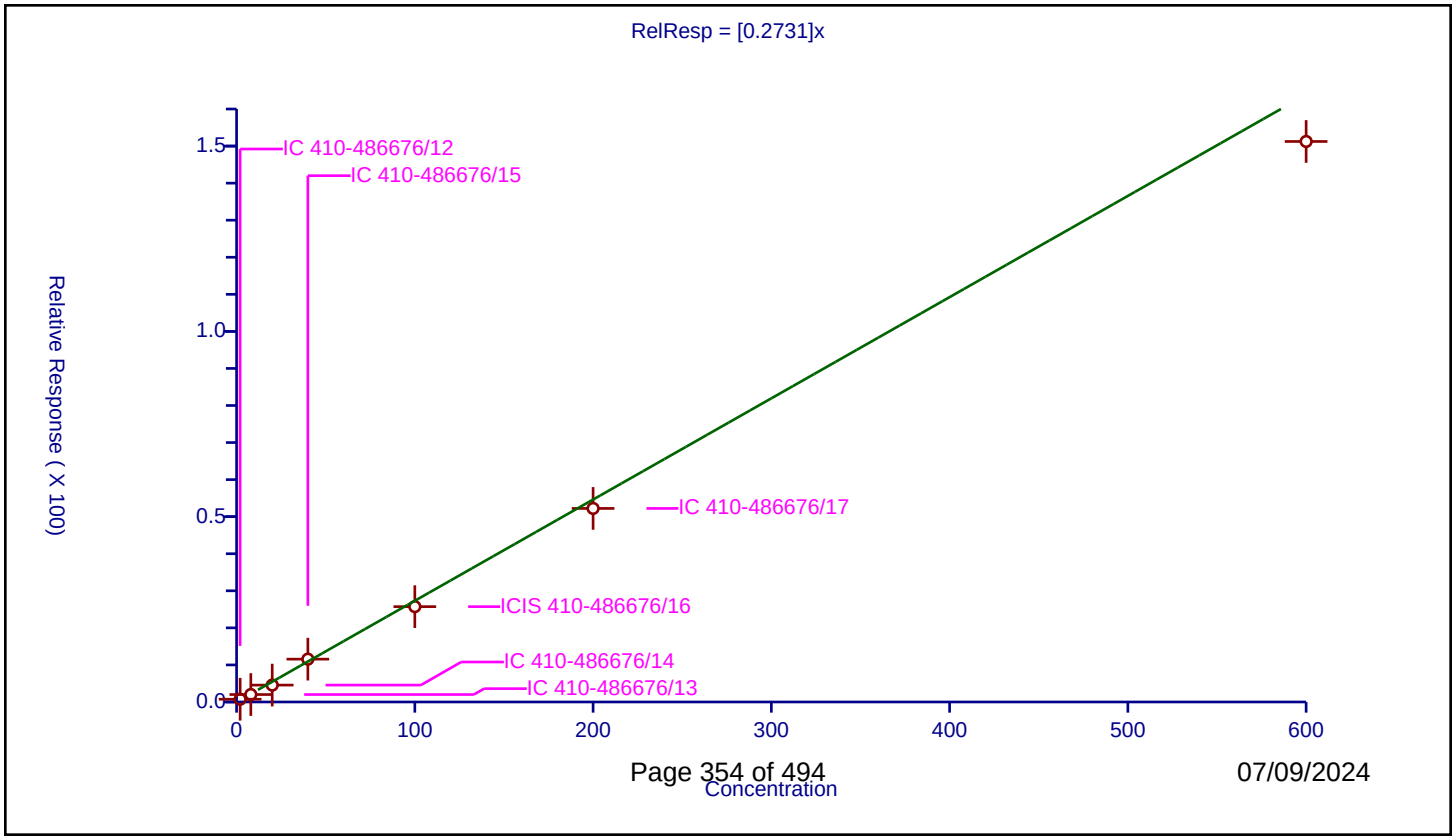
Curve Coefficients

Intercept:	0
Slope:	0.2731

Error Coefficients

Relative Standard Deviation:	17.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	2.0	0.745247	50.0	815032.0	0.372623	Y
2	IC 410-486676/13	8.0	2.013472	50.0	812080.0	0.251684	Y
3	IC 410-486676/14	20.0	4.559613	50.0	815146.0	0.227981	Y
4	IC 410-486676/15	40.0	11.556446	50.0	819097.0	0.288911	Y
5	ICIS 410-486676/16	100.0	25.729254	50.0	837226.0	0.257293	Y
6	IC 410-486676/17	200.0	52.226911	50.0	843096.0	0.261135	Y
7	IC 410-486676/18	600.0	151.246657	50.0	861945.0	0.252078	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

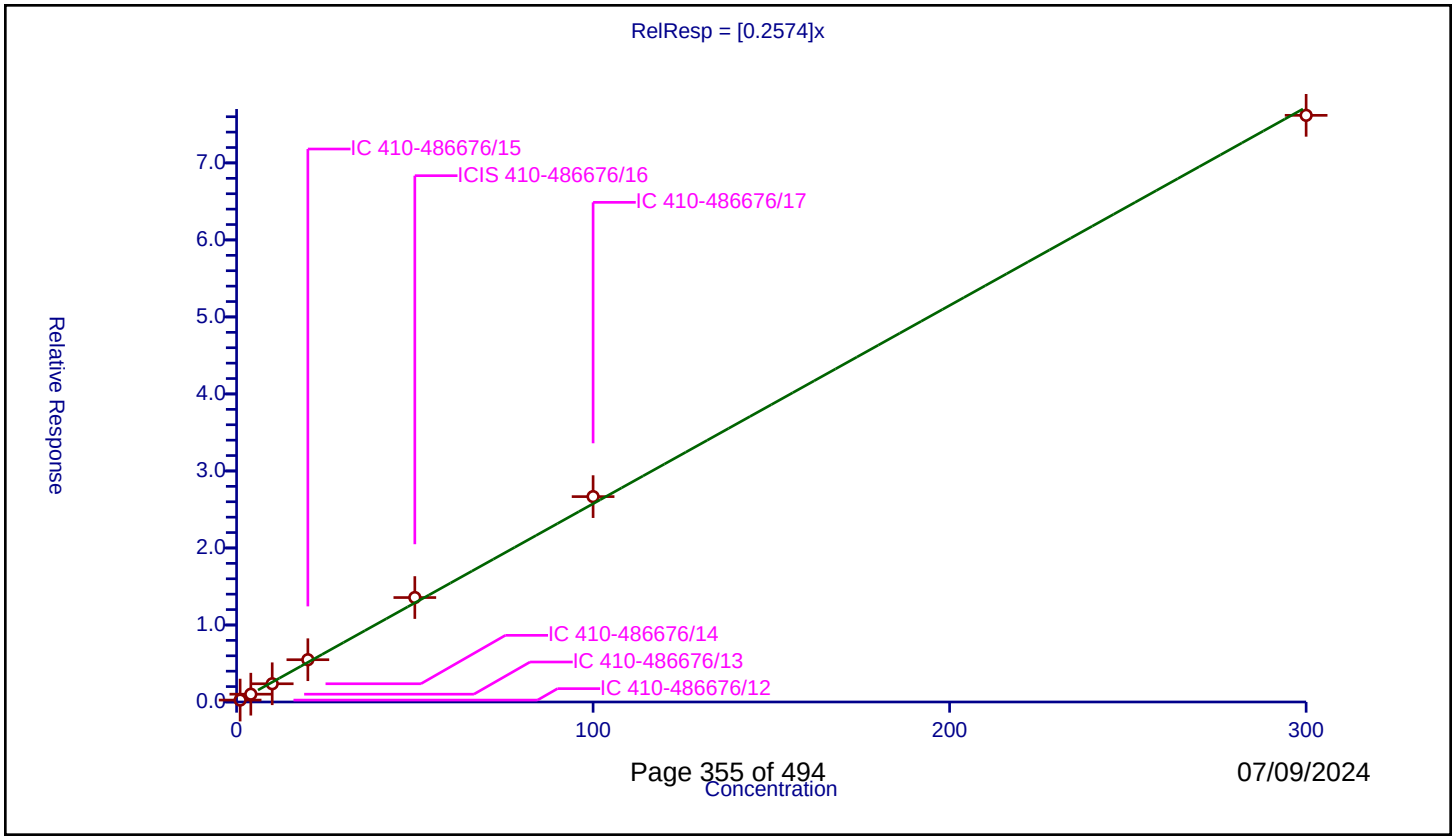
Curve Coefficients

Intercept:	0
Slope:	0.2574

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.246064	50.0	815032.0	0.246064	Y
2	IC 410-486676/13	4.0	1.011538	50.0	812080.0	0.252885	Y
3	IC 410-486676/14	10.0	2.366693	50.0	815146.0	0.236669	Y
4	IC 410-486676/15	20.0	5.491474	50.0	819097.0	0.274574	Y
5	ICIS 410-486676/16	50.0	13.562646	50.0	837226.0	0.271253	Y
6	IC 410-486676/17	100.0	26.667663	50.0	843096.0	0.266677	Y
7	IC 410-486676/18	300.0	76.180731	50.0	861945.0	0.253936	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

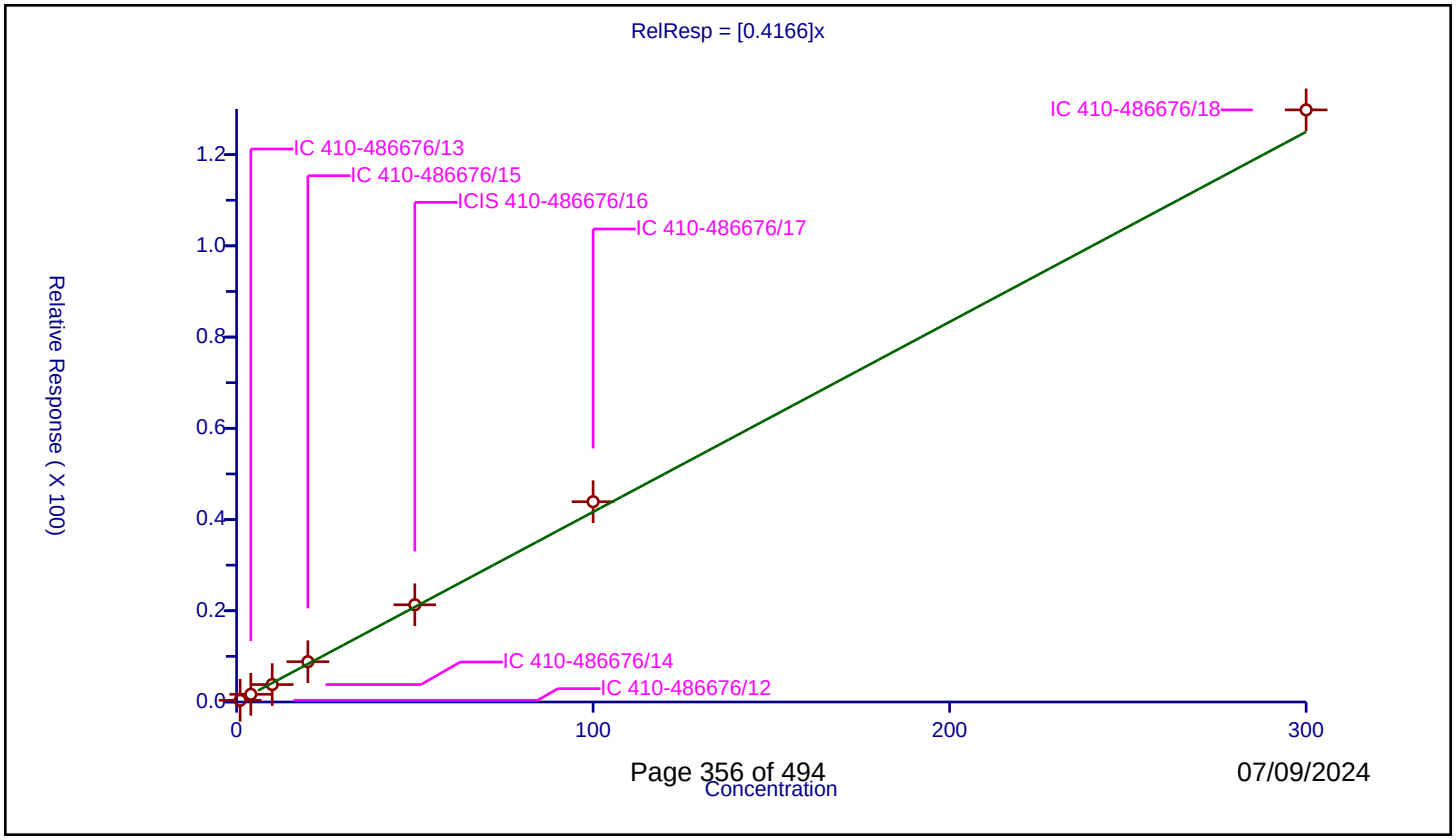
Curve Coefficients

Intercept:	0
Slope:	0.4166

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.372562	50.0	815032.0	0.372562	Y
2	IC 410-486676/13	4.0	1.68955	50.0	812080.0	0.422388	Y
3	IC 410-486676/14	10.0	3.819868	50.0	815146.0	0.381987	Y
4	IC 410-486676/15	20.0	8.831494	50.0	819097.0	0.441575	Y
5	ICIS 410-486676/16	50.0	21.313182	50.0	837226.0	0.426264	Y
6	IC 410-486676/17	100.0	43.905558	50.0	843096.0	0.439056	Y
7	IC 410-486676/18	300.0	129.814605	50.0	861945.0	0.432715	Y



Calibration / Propionitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

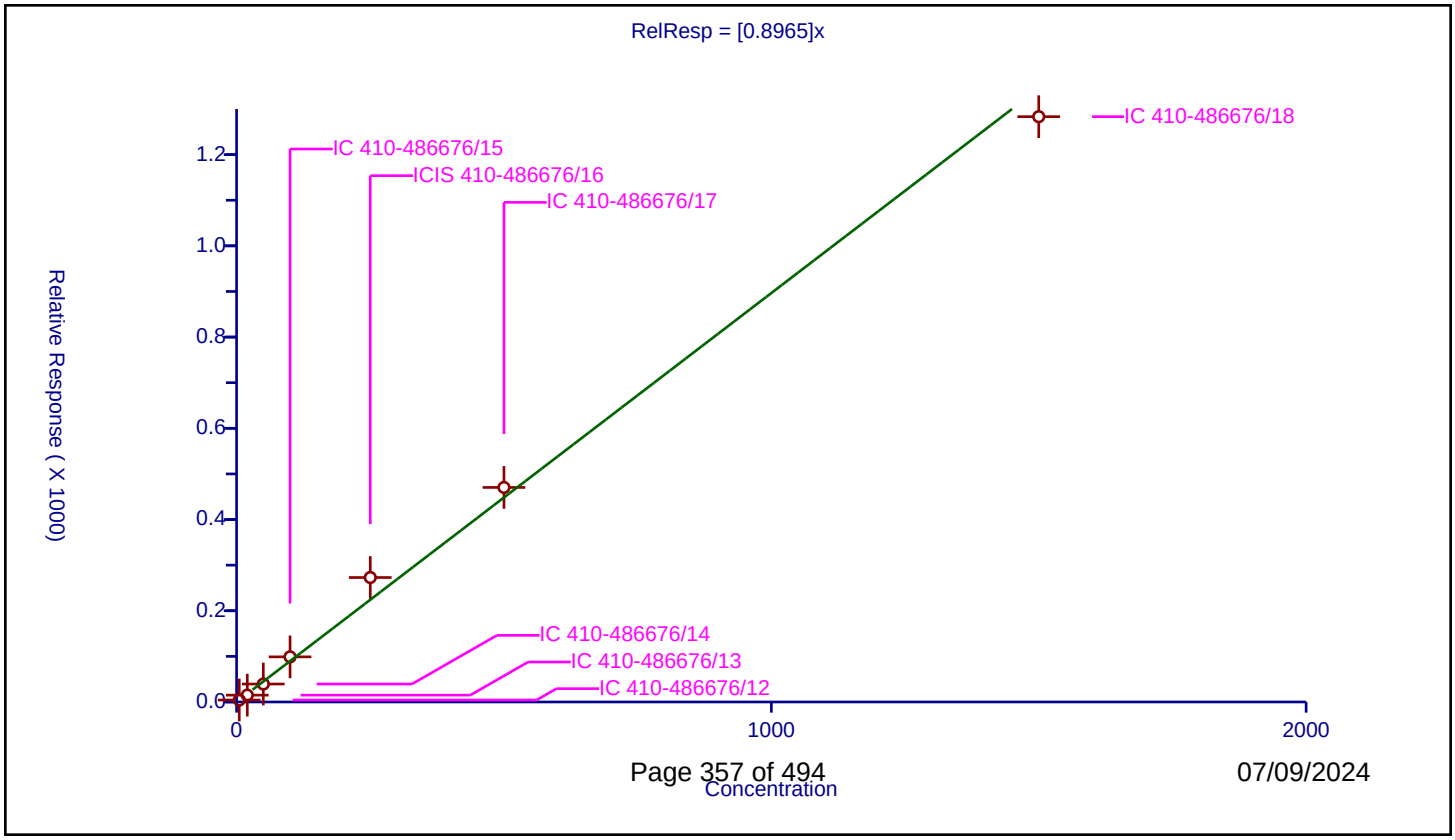
Curve Coefficients

Intercept:	0
Slope:	0.8965

Error Coefficients

Relative Standard Deviation:	13.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	5.0	4.302782	250.0	378418.0	0.860556	Y
2	IC 410-486676/13	20.0	15.019729	250.0	365952.0	0.750986	Y
3	IC 410-486676/14	50.0	39.347392	250.0	365901.0	0.786948	Y
4	IC 410-486676/15	100.0	98.966598	250.0	391329.0	0.989666	Y
5	ICIS 410-486676/16	250.0	272.877477	250.0	385838.0	1.09151	Y
6	IC 410-486676/17	500.0	470.342304	250.0	394299.0	0.940685	Y
7	IC 410-486676/18	1500.0	1283.218413	250.0	415071.0	0.855479	Y



Calibration / Methyl acrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

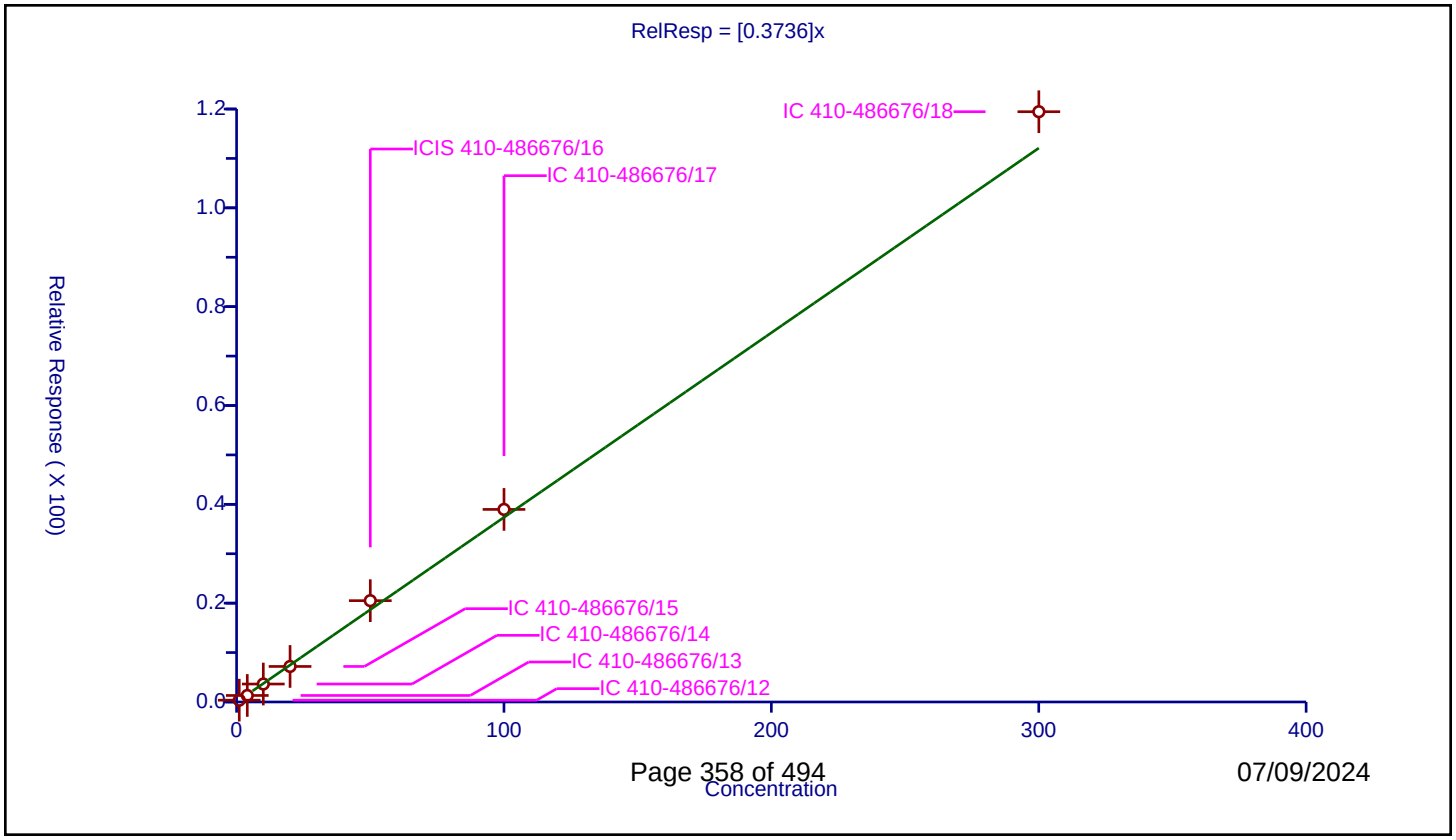
Curve Coefficients

Intercept:	0
Slope:	0.3736

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.00014	0.364894	50.0	815032.0	0.364843	Y
2	IC 410-486676/13	4.00056	1.319574	50.0	812080.0	0.329847	Y
3	IC 410-486676/14	10.0014	3.634809	50.0	815146.0	0.36343	Y
4	IC 410-486676/15	20.0028	7.18877	50.0	819097.0	0.359388	Y
5	ICIS 410-486676/16	50.007	20.502708	50.0	837226.0	0.409997	Y
6	IC 410-486676/17	100.014	38.970473	50.0	843096.0	0.38965	Y
7	IC 410-486676/18	300.042	119.455592	50.0	861945.0	0.39813	Y



Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

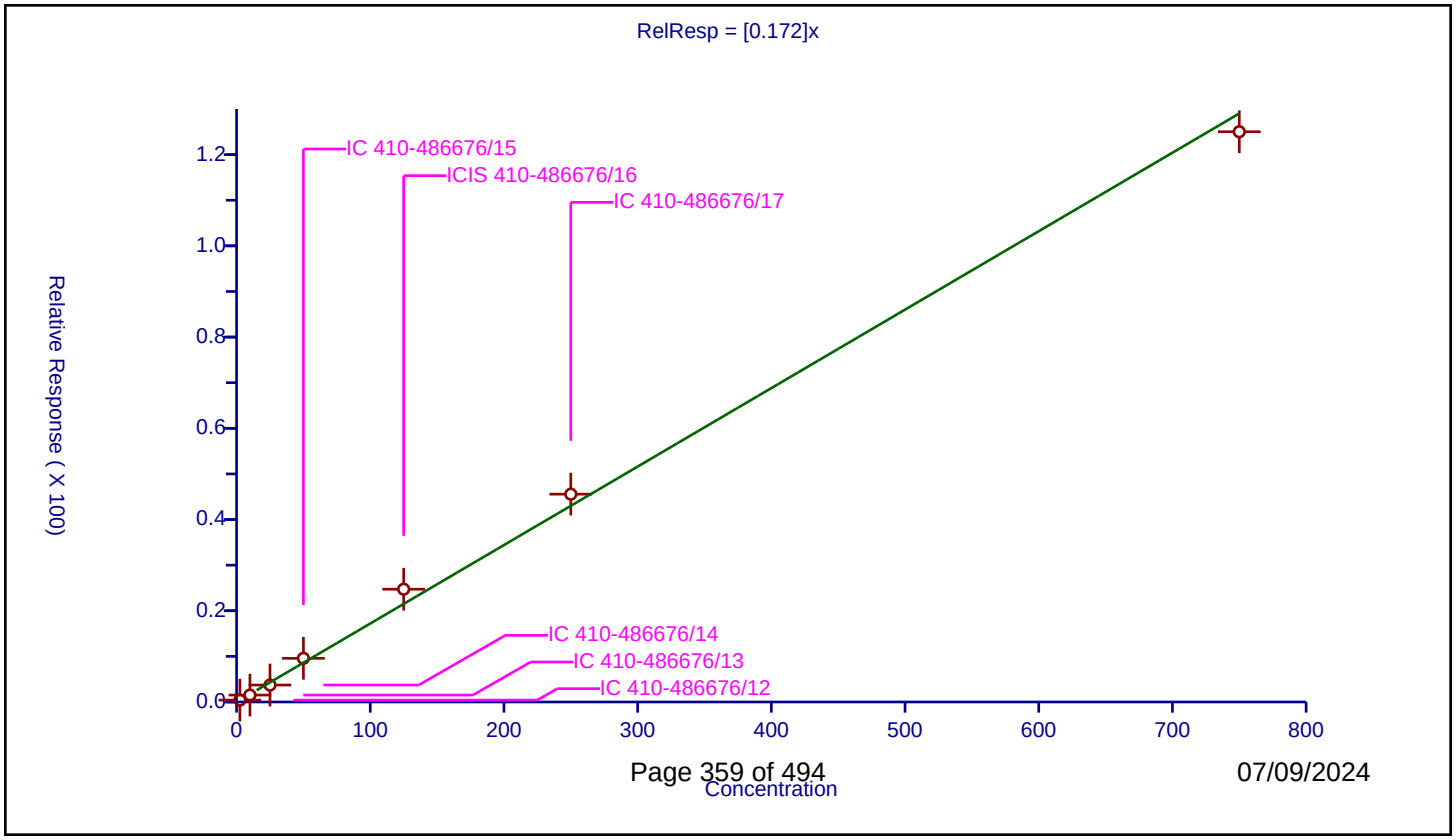
Curve Coefficients

Intercept:	0
Slope:	0.172

Error Coefficients

Relative Standard Deviation:	11.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	2.5	0.413849	50.0	815032.0	0.16554	Y
2	IC 410-486676/13	10.0	1.519001	50.0	812080.0	0.1519	Y
3	IC 410-486676/14	25.0	3.713568	50.0	815146.0	0.148543	Y
4	IC 410-486676/15	50.0	9.570539	50.0	819097.0	0.191411	Y
5	ICIS 410-486676/16	125.0	24.72809	50.0	837226.0	0.197825	Y
6	IC 410-486676/17	250.0	45.5613	50.0	843096.0	0.182245	Y
7	IC 410-486676/18	750.0	125.019404	50.0	861945.0	0.166693	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

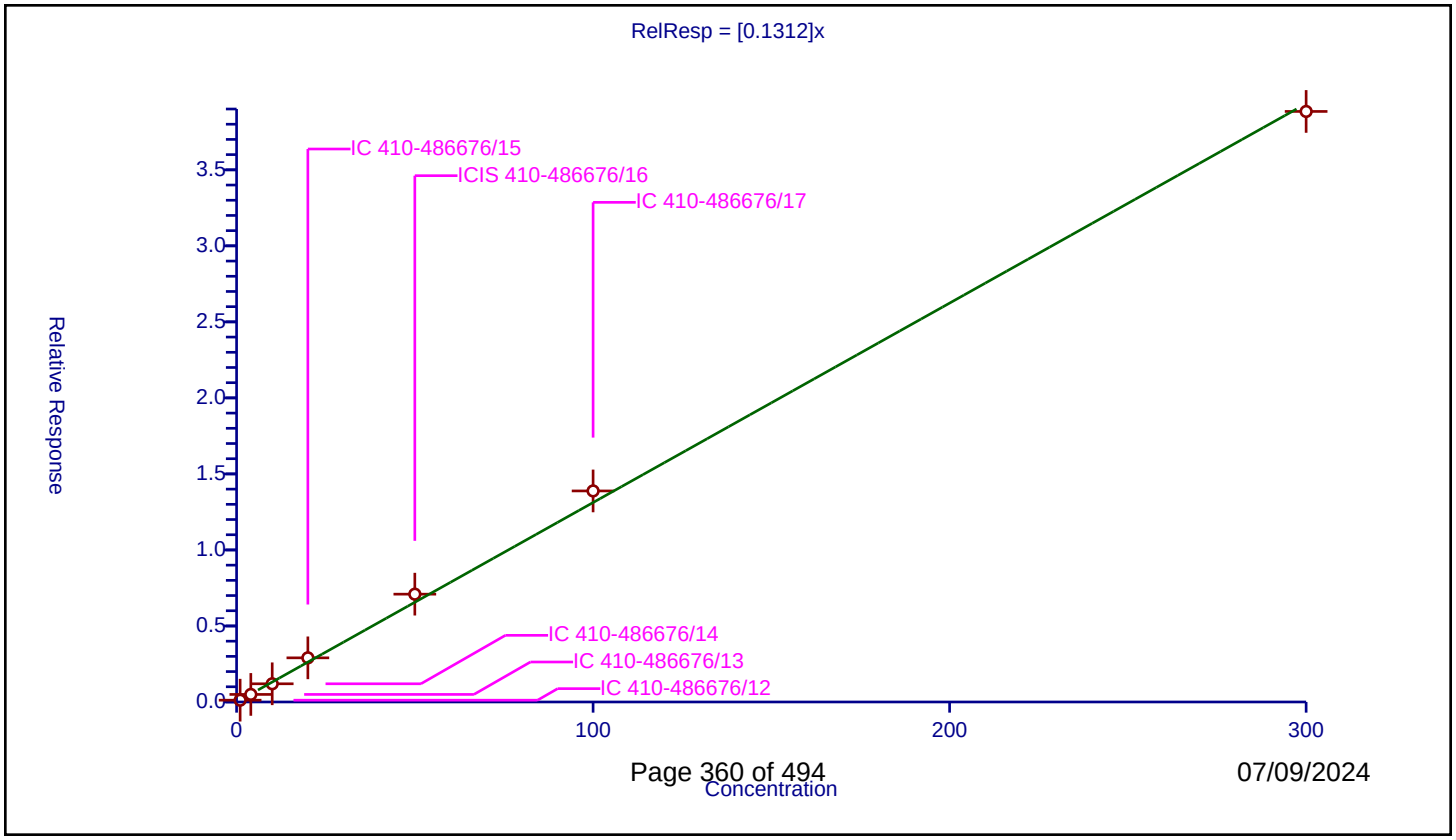
Curve Coefficients

Intercept:	0
Slope:	0.1312

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.11883	50.0	815032.0	0.11883	Y
2	IC 410-486676/13	4.0	0.497673	50.0	812080.0	0.124418	Y
3	IC 410-486676/14	10.0	1.197025	50.0	815146.0	0.119702	Y
4	IC 410-486676/15	20.0	2.903441	50.0	819097.0	0.145172	Y
5	ICIS 410-486676/16	50.0	7.091693	50.0	837226.0	0.141834	Y
6	IC 410-486676/17	100.0	13.880329	50.0	843096.0	0.138803	Y
7	IC 410-486676/18	300.0	38.840239	50.0	861945.0	0.129467	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

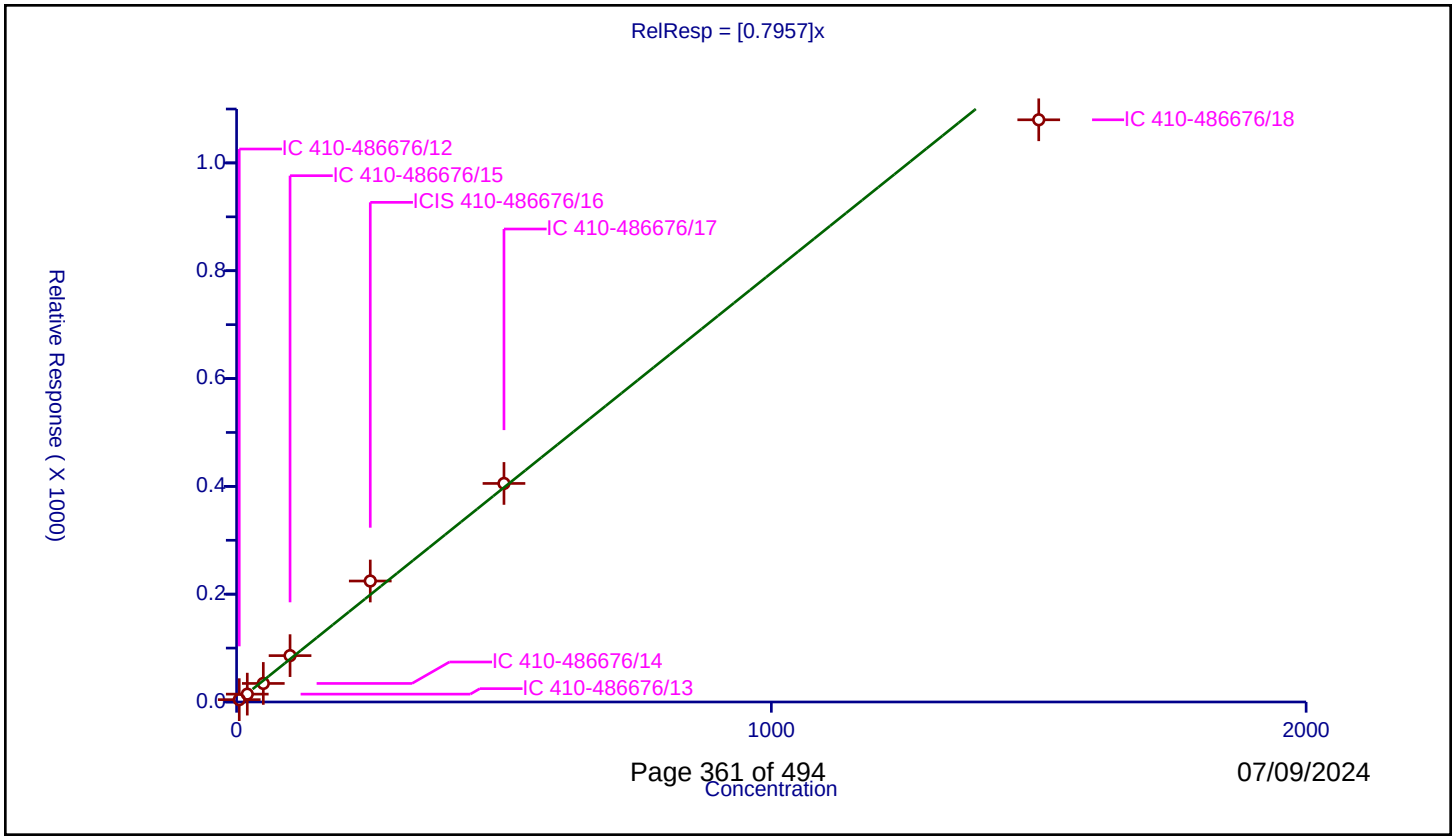
Curve Coefficients

Intercept:	0
Slope:	0.7957

Error Coefficients

Relative Standard Deviation:	10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	5.0	4.317976	250.0	378418.0	0.863595	Y
2	IC 410-486676/13	20.0	14.589345	250.0	365952.0	0.729467	Y
3	IC 410-486676/14	50.0	34.428712	250.0	365901.0	0.688574	Y
4	IC 410-486676/15	100.0	86.020331	250.0	391329.0	0.860203	Y
5	ICIS 410-486676/16	250.0	224.388215	250.0	385838.0	0.897553	Y
6	IC 410-486676/17	500.0	405.415053	250.0	394299.0	0.81083	Y
7	IC 410-486676/18	1500.0	1080.032693	250.0	415071.0	0.720022	Y



Calibration / Chloroform

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

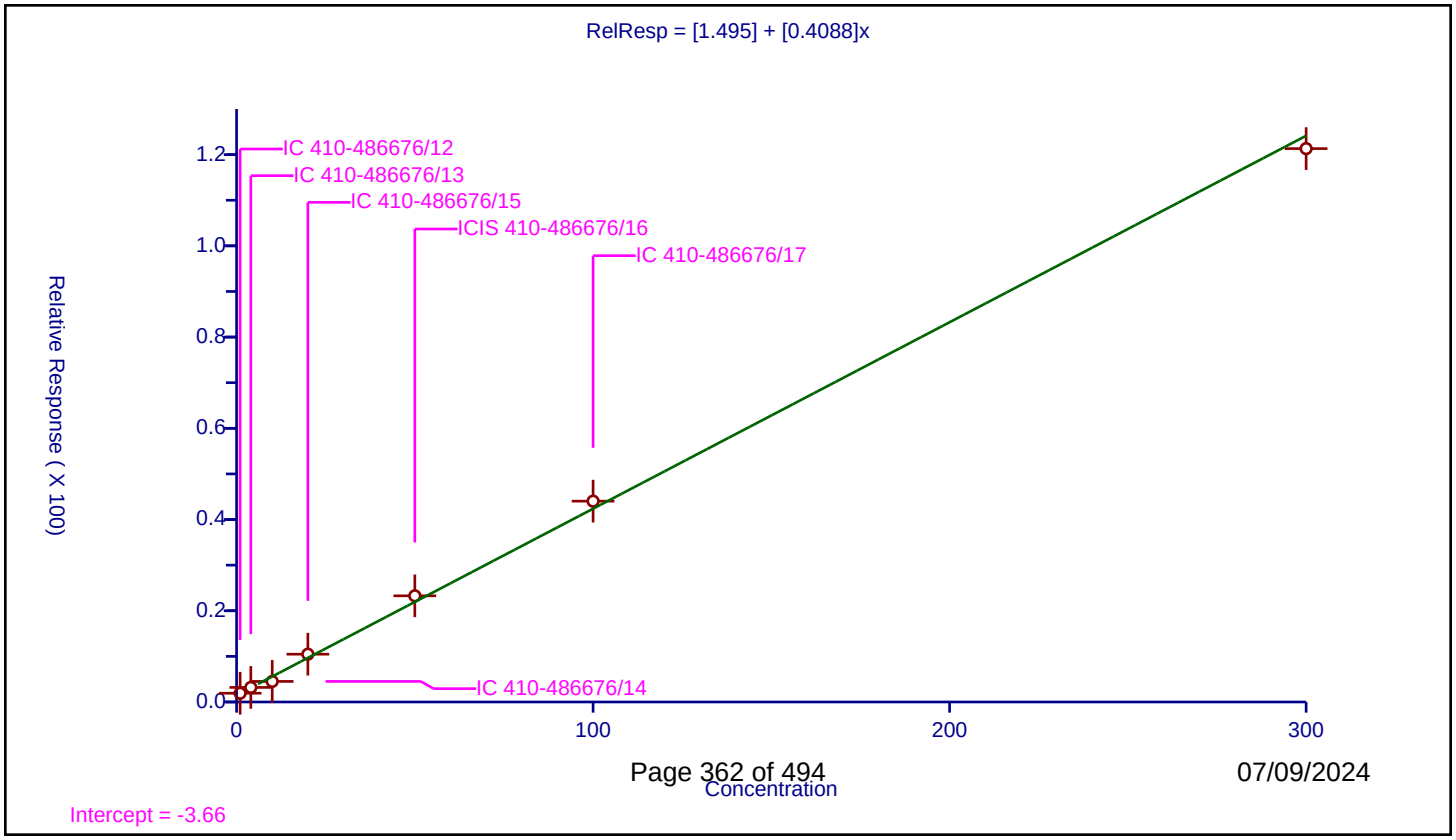
Curve Coefficients

Intercept:	1.495
Slope:	0.4088

Error Coefficients

Relative Standard Deviation:	13.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	1.920354	50.0	815032.0	1.920354	Y
2	IC 410-486676/13	4.0	3.19519	50.0	812080.0	0.798798	Y
3	IC 410-486676/14	10.0	4.51091	50.0	815146.0	0.451091	Y
4	IC 410-486676/15	20.0	10.478918	50.0	819097.0	0.523946	Y
5	ICIS 410-486676/16	50.0	23.274898	50.0	837226.0	0.465498	Y
6	IC 410-486676/17	100.0	44.029387	50.0	843096.0	0.440294	Y
7	IC 410-486676/18	300.0	121.319168	50.0	861945.0	0.404397	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

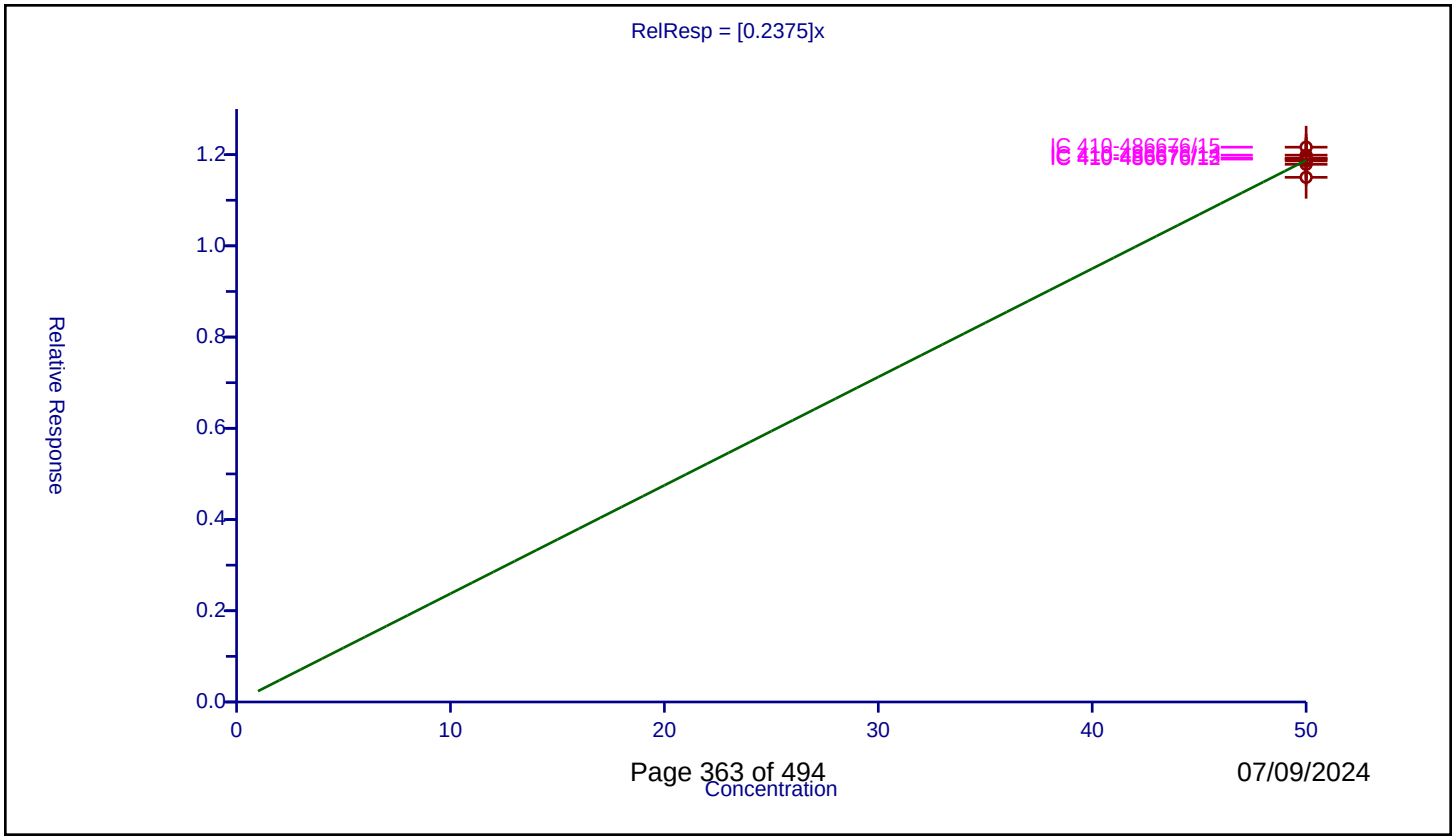
Curve Coefficients

Intercept:	0
Slope:	0.2375

Error Coefficients

Relative Standard Deviation:	1.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	50.0	11.902171	50.0	815032.0	0.238043	Y
2	IC 410-486676/13	50.0	11.919454	50.0	812080.0	0.238389	Y
3	IC 410-486676/14	50.0	11.988711	50.0	815146.0	0.239774	Y
4	IC 410-486676/15	50.0	12.163211	50.0	819097.0	0.243264	Y
5	ICIS 410-486676/16	50.0	11.861493	50.0	837226.0	0.23723	Y
6	IC 410-486676/17	50.0	11.787566	50.0	843096.0	0.235751	Y
7	IC 410-486676/18	50.0	11.501952	50.0	861945.0	0.230039	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

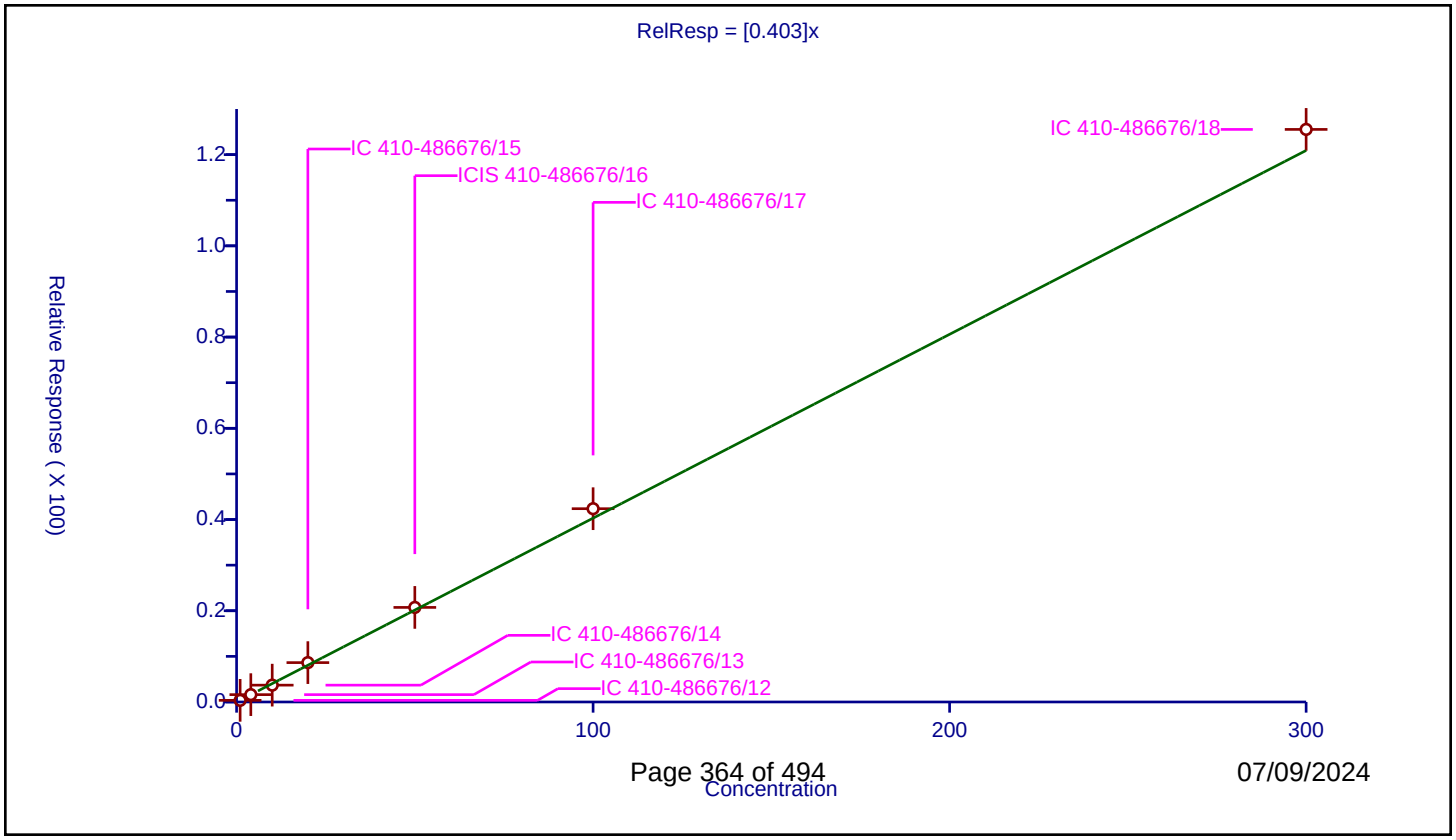
Curve Coefficients

Intercept:	0
Slope:	0.403

Error Coefficients

Relative Standard Deviation:	6.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.360599	50.0	815032.0	0.360599	Y
2	IC 410-486676/13	4.0	1.610863	50.0	812080.0	0.402716	Y
3	IC 410-486676/14	10.0	3.694308	50.0	815146.0	0.369431	Y
4	IC 410-486676/15	20.0	8.633349	50.0	819097.0	0.431667	Y
5	ICIS 410-486676/16	50.0	20.736336	50.0	837226.0	0.414727	Y
6	IC 410-486676/17	100.0	42.374356	50.0	843096.0	0.423744	Y
7	IC 410-486676/18	300.0	125.530051	50.0	861945.0	0.418434	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

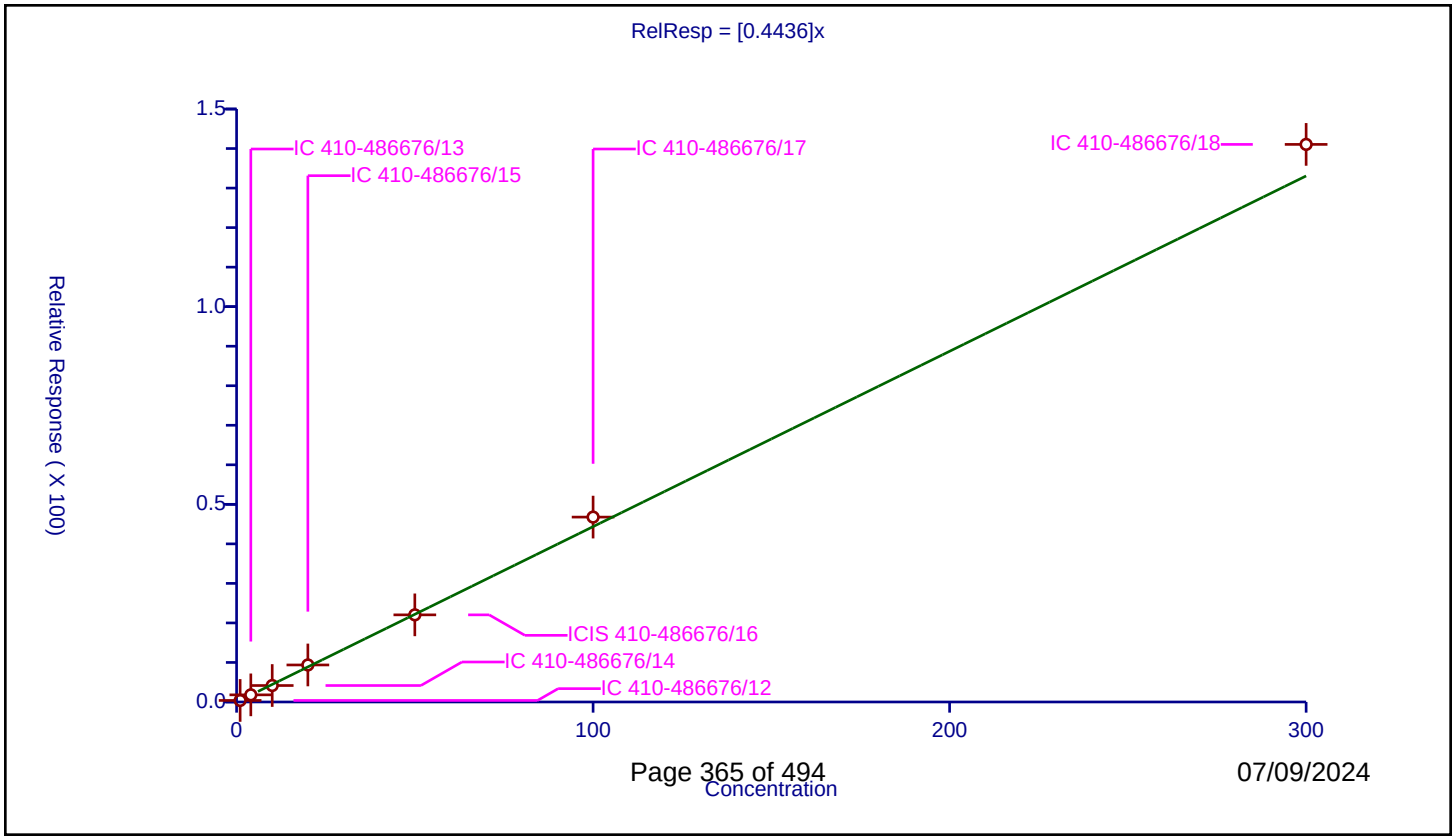
Curve Coefficients

Intercept:	0
Slope:	0.4436

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.389371	50.0	815032.0	0.389371	Y
2	IC 410-486676/13	4.0	1.806903	50.0	812080.0	0.451726	Y
3	IC 410-486676/14	10.0	4.167536	50.0	815146.0	0.416754	Y
4	IC 410-486676/15	20.0	9.368121	50.0	819097.0	0.468406	Y
5	ICIS 410-486676/16	50.0	22.043033	50.0	837226.0	0.440861	Y
6	IC 410-486676/17	100.0	46.772491	50.0	843096.0	0.467725	Y
7	IC 410-486676/18	300.0	141.046354	50.0	861945.0	0.470155	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

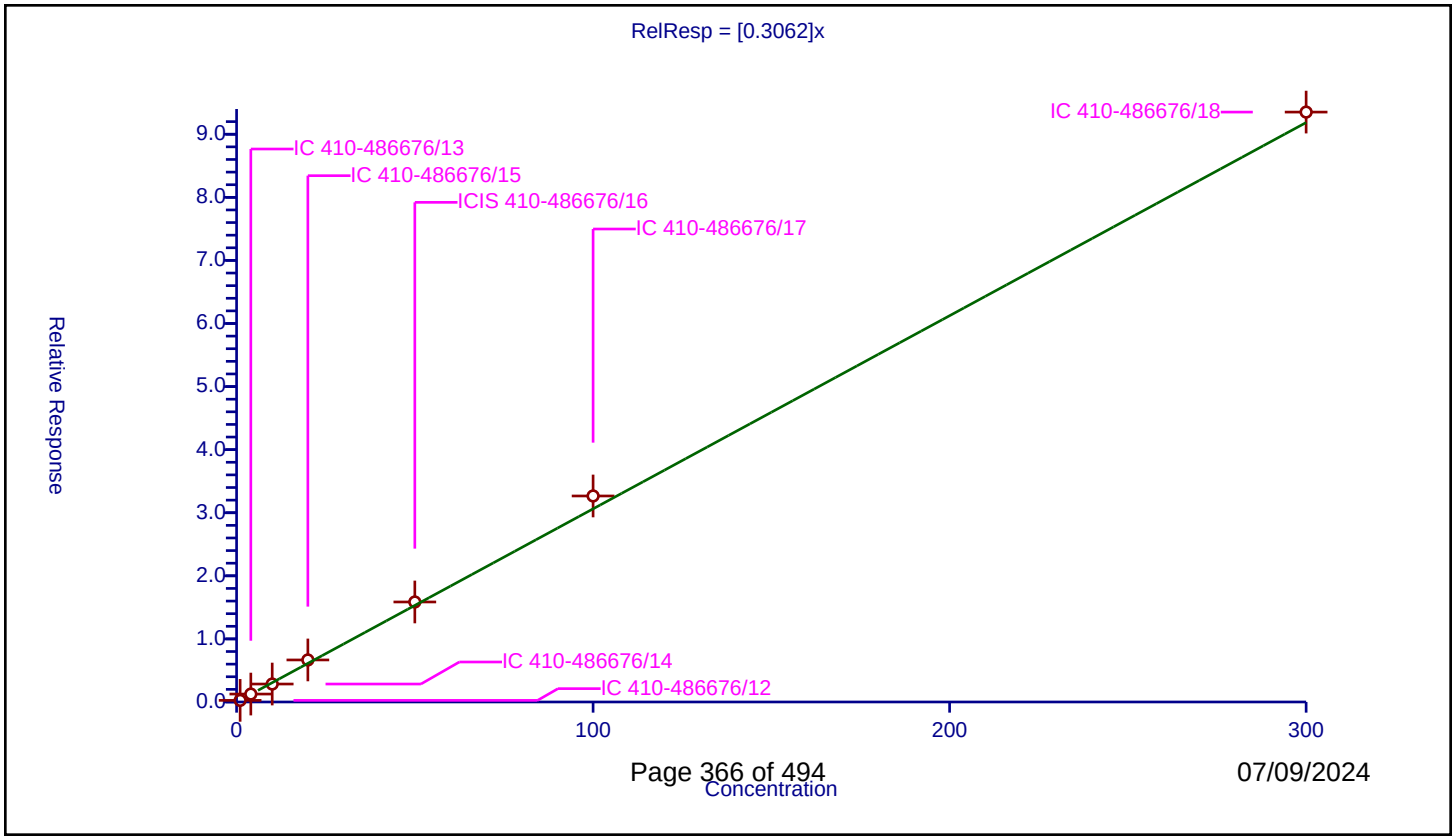
Curve Coefficients

Intercept:	0
Slope:	0.3062

Error Coefficients

Relative Standard Deviation:	8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.25588	50.0	815032.0	0.25588	Y
2	IC 410-486676/13	4.0	1.255972	50.0	812080.0	0.313993	Y
3	IC 410-486676/14	10.0	2.848324	50.0	815146.0	0.284832	Y
4	IC 410-486676/15	20.0	6.663802	50.0	819097.0	0.33319	Y
5	ICIS 410-486676/16	50.0	15.852709	50.0	837226.0	0.317054	Y
6	IC 410-486676/17	100.0	32.658321	50.0	843096.0	0.326583	Y
7	IC 410-486676/18	300.0	93.512115	50.0	861945.0	0.311707	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

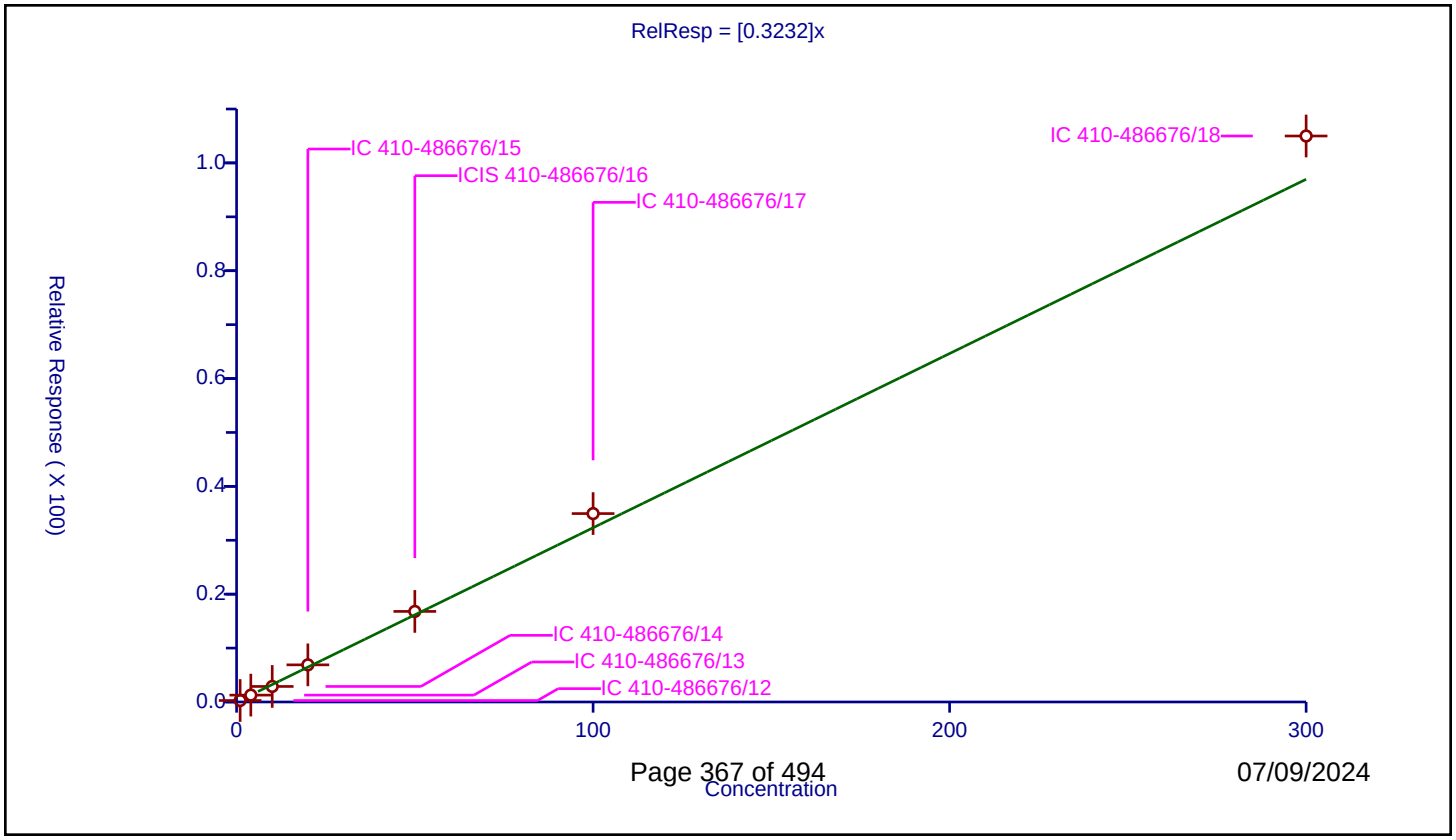
Curve Coefficients

Intercept:	0
Slope:	0.3232

Error Coefficients

Relative Standard Deviation:	9.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.276615	50.0	815032.0	0.276615	Y
2	IC 410-486676/13	4.0	1.272535	50.0	812080.0	0.318134	Y
3	IC 410-486676/14	10.0	2.879177	50.0	815146.0	0.287918	Y
4	IC 410-486676/15	20.0	6.88673	50.0	819097.0	0.344337	Y
5	ICIS 410-486676/16	50.0	16.799705	50.0	837226.0	0.335994	Y
6	IC 410-486676/17	100.0	34.949697	50.0	843096.0	0.349497	Y
7	IC 410-486676/18	300.0	104.996084	50.0	861945.0	0.349987	Y



Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

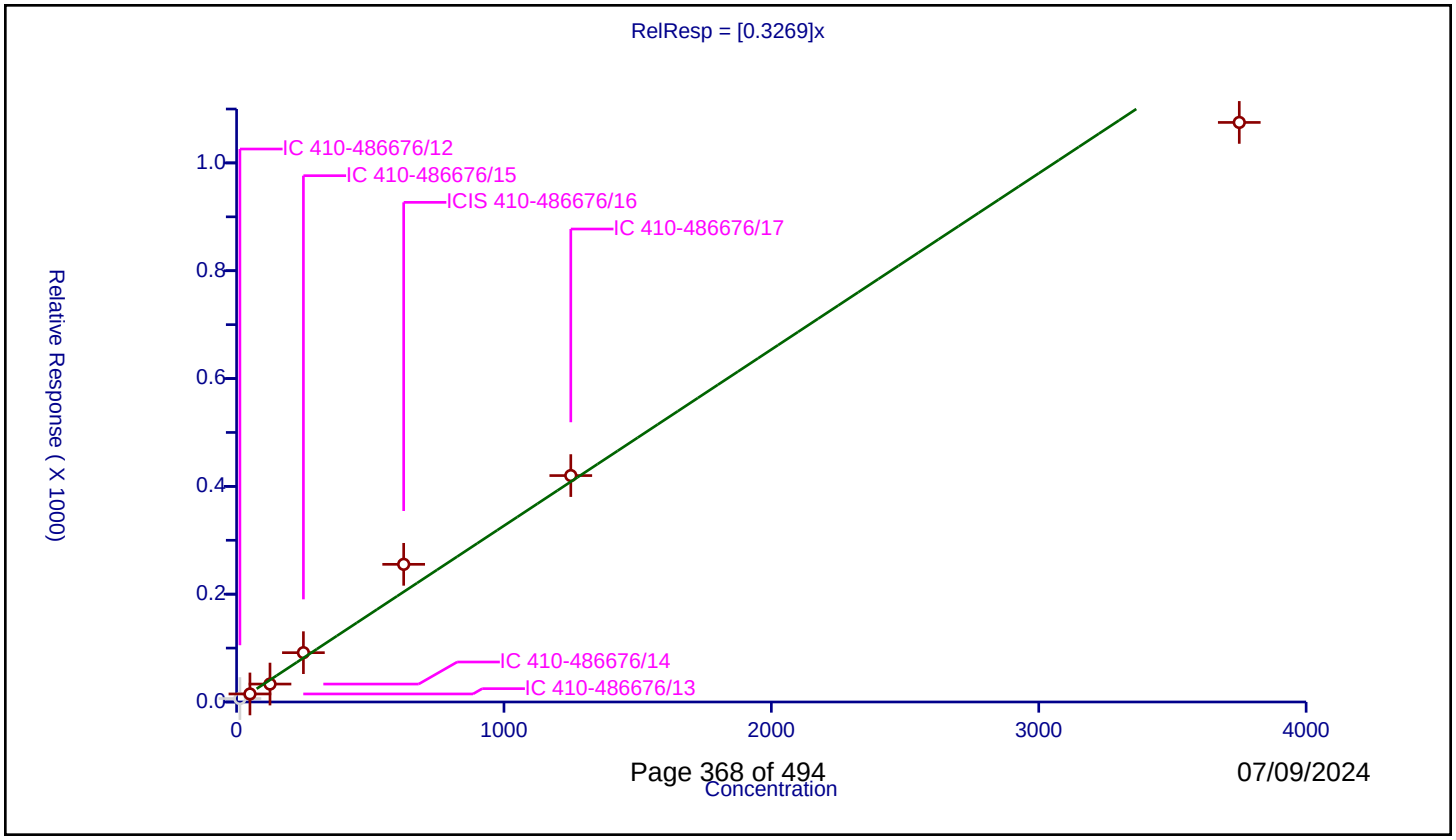
Curve Coefficients

Intercept:	0
Slope:	0.3269

Error Coefficients

Relative Standard Deviation:	16.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	12.5	6.373904	250.0	378418.0	0.509912	N
2	IC 410-486676/13	50.0	14.90496	250.0	365952.0	0.298099	Y
3	IC 410-486676/14	125.0	33.269928	250.0	365901.0	0.266159	Y
4	IC 410-486676/15	250.0	91.470987	250.0	391329.0	0.365884	Y
5	ICIS 410-486676/16	625.0	255.364946	250.0	385838.0	0.408584	Y
6	IC 410-486676/17	1250.0	420.01438	250.0	394299.0	0.336012	Y
7	IC 410-486676/18	3750.0	1075.127508	250.0	415071.0	0.286701	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

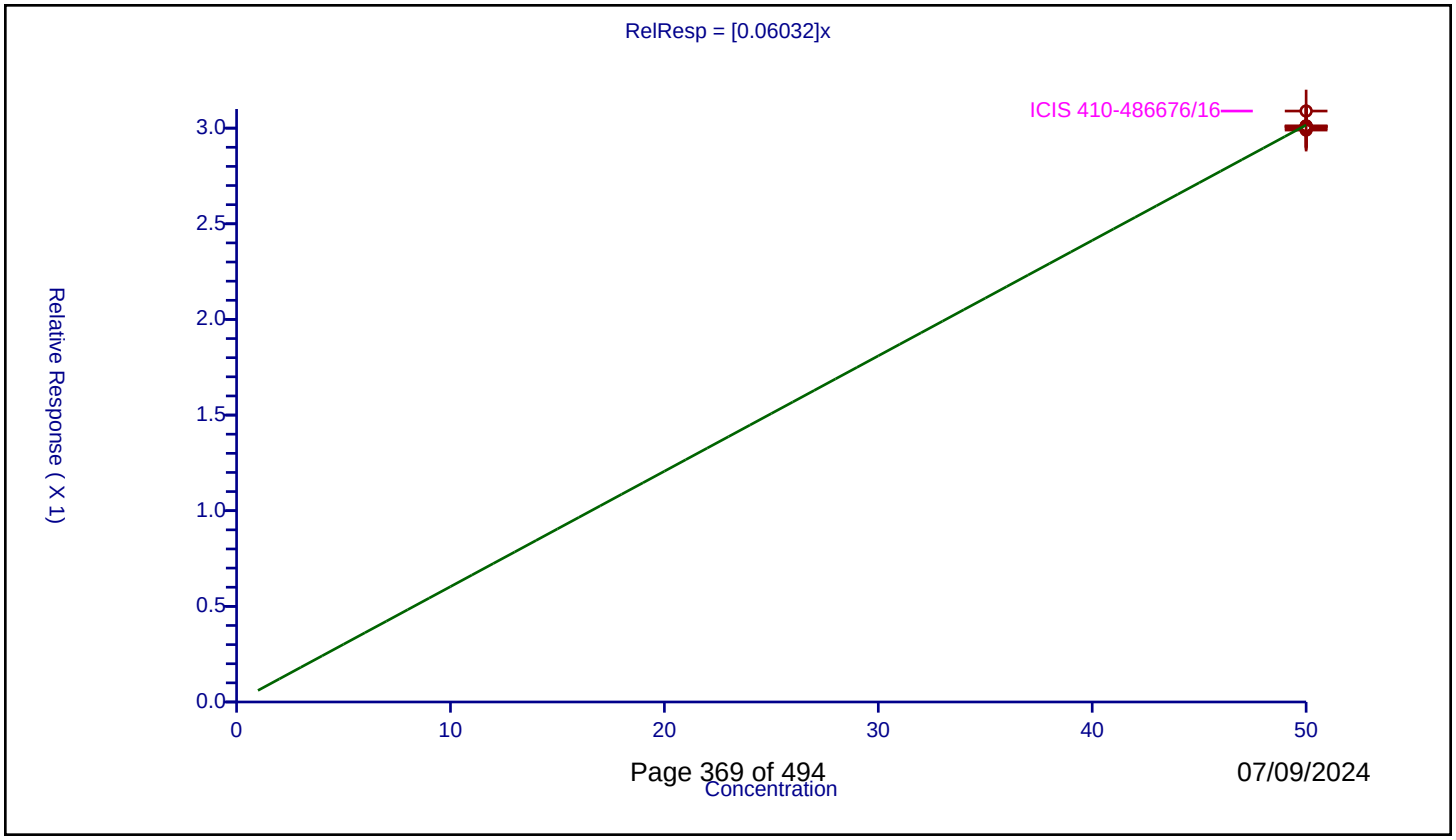
Curve Coefficients

Intercept:	0
Slope:	0.06032

Error Coefficients

Relative Standard Deviation:	1.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	50.0	2.989883	50.0	815032.0	0.059798	Y
2	IC 410-486676/13	50.0	3.011895	50.0	812080.0	0.060238	Y
3	IC 410-486676/14	50.0	3.008847	50.0	815146.0	0.060177	Y
4	IC 410-486676/15	50.0	3.004528	50.0	819097.0	0.060091	Y
5	ICIS 410-486676/16	50.0	3.089429	50.0	837226.0	0.061789	Y
6	IC 410-486676/17	50.0	3.009918	50.0	843096.0	0.060198	Y
7	IC 410-486676/18	50.0	2.997697	50.0	861945.0	0.059954	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

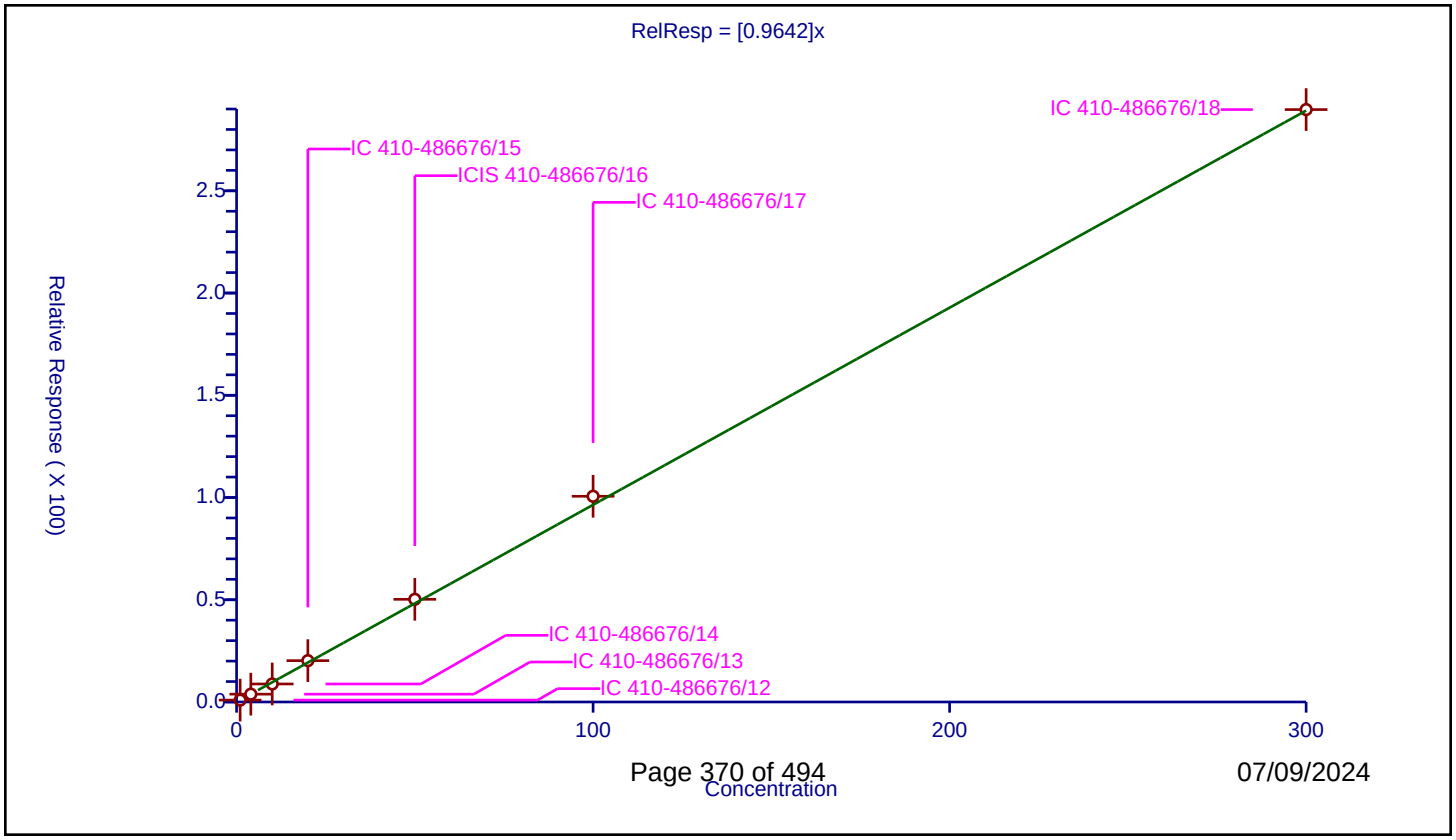
Curve Coefficients

Intercept:	0
Slope:	0.9642

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.923522	50.0	815032.0	0.923522	Y
2	IC 410-486676/13	4.0	3.830226	50.0	812080.0	0.957557	Y
3	IC 410-486676/14	10.0	8.809219	50.0	815146.0	0.880922	Y
4	IC 410-486676/15	20.0	20.220011	50.0	819097.0	1.011001	Y
5	ICIS 410-486676/16	50.0	50.215653	50.0	837226.0	1.004313	Y
6	IC 410-486676/17	100.0	100.608946	50.0	843096.0	1.006089	Y
7	IC 410-486676/18	300.0	289.721502	50.0	861945.0	0.965738	Y



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

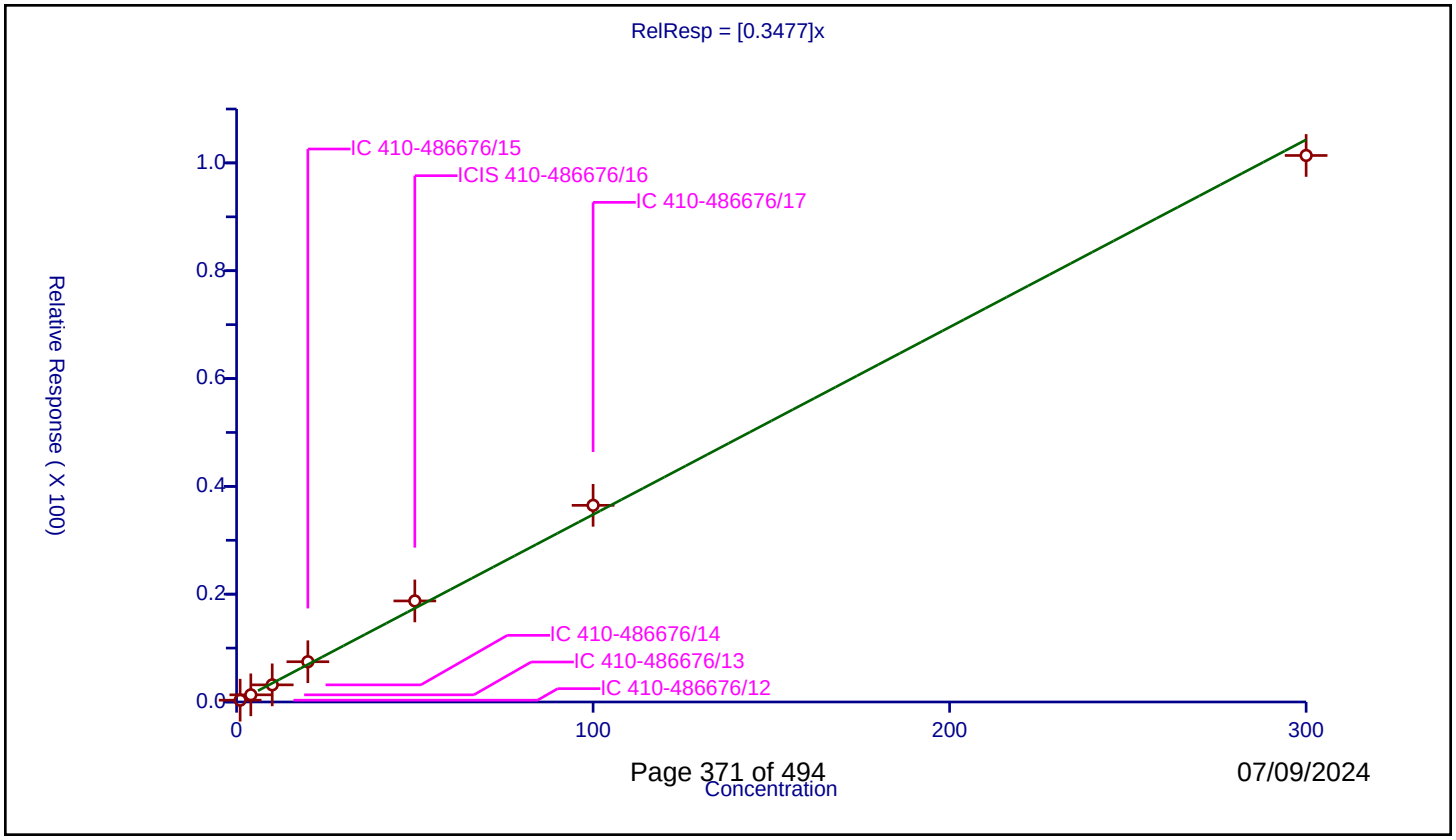
Curve Coefficients

Intercept:	0
Slope:	0.3477

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.333422	50.0	815032.0	0.333422	Y
2	IC 410-486676/13	4.0	1.326347	50.0	812080.0	0.331587	Y
3	IC 410-486676/14	10.0	3.175995	50.0	815146.0	0.3176	Y
4	IC 410-486676/15	20.0	7.469506	50.0	819097.0	0.373475	Y
5	ICIS 410-486676/16	50.0	18.746133	50.0	837226.0	0.374923	Y
6	IC 410-486676/17	100.0	36.481729	50.0	843096.0	0.364817	Y
7	IC 410-486676/18	300.0	101.384137	50.0	861945.0	0.337947	Y



07/09/2024

Calibration / Tert-amyl methyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

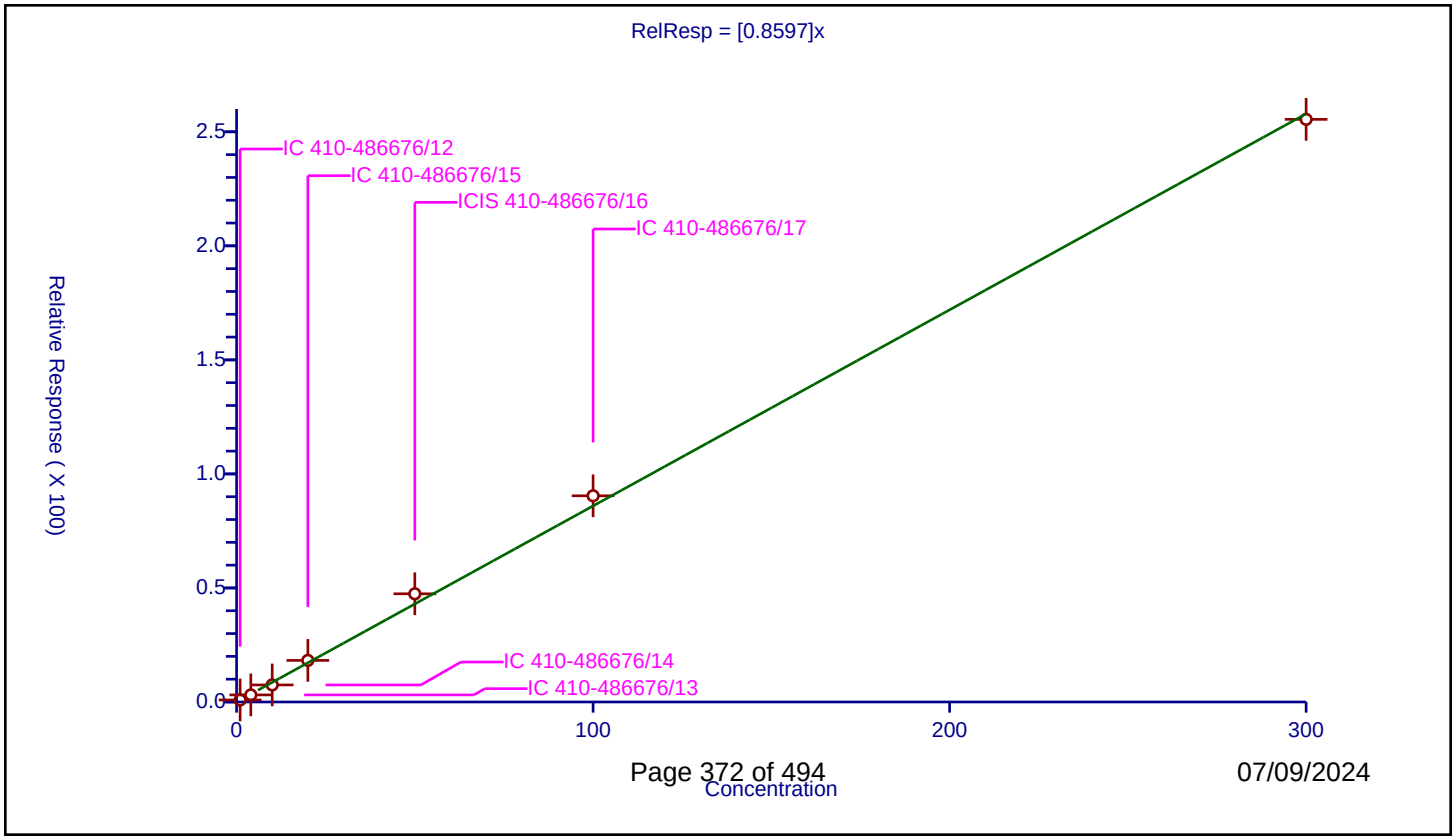
Curve Coefficients

Intercept:	0
Slope:	0.8597

Error Coefficients

Relative Standard Deviation:	8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.879352	50.0	815032.0	0.879352	Y
2	IC 410-486676/13	4.0	3.100988	50.0	812080.0	0.775247	Y
3	IC 410-486676/14	10.0	7.473262	50.0	815146.0	0.747326	Y
4	IC 410-486676/15	20.0	18.232395	50.0	819097.0	0.91162	Y
5	ICIS 410-486676/16	50.0	47.439998	50.0	837226.0	0.9488	Y
6	IC 410-486676/17	100.0	90.406312	50.0	843096.0	0.904063	Y
7	IC 410-486676/18	300.0	255.457541	50.0	861945.0	0.851525	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

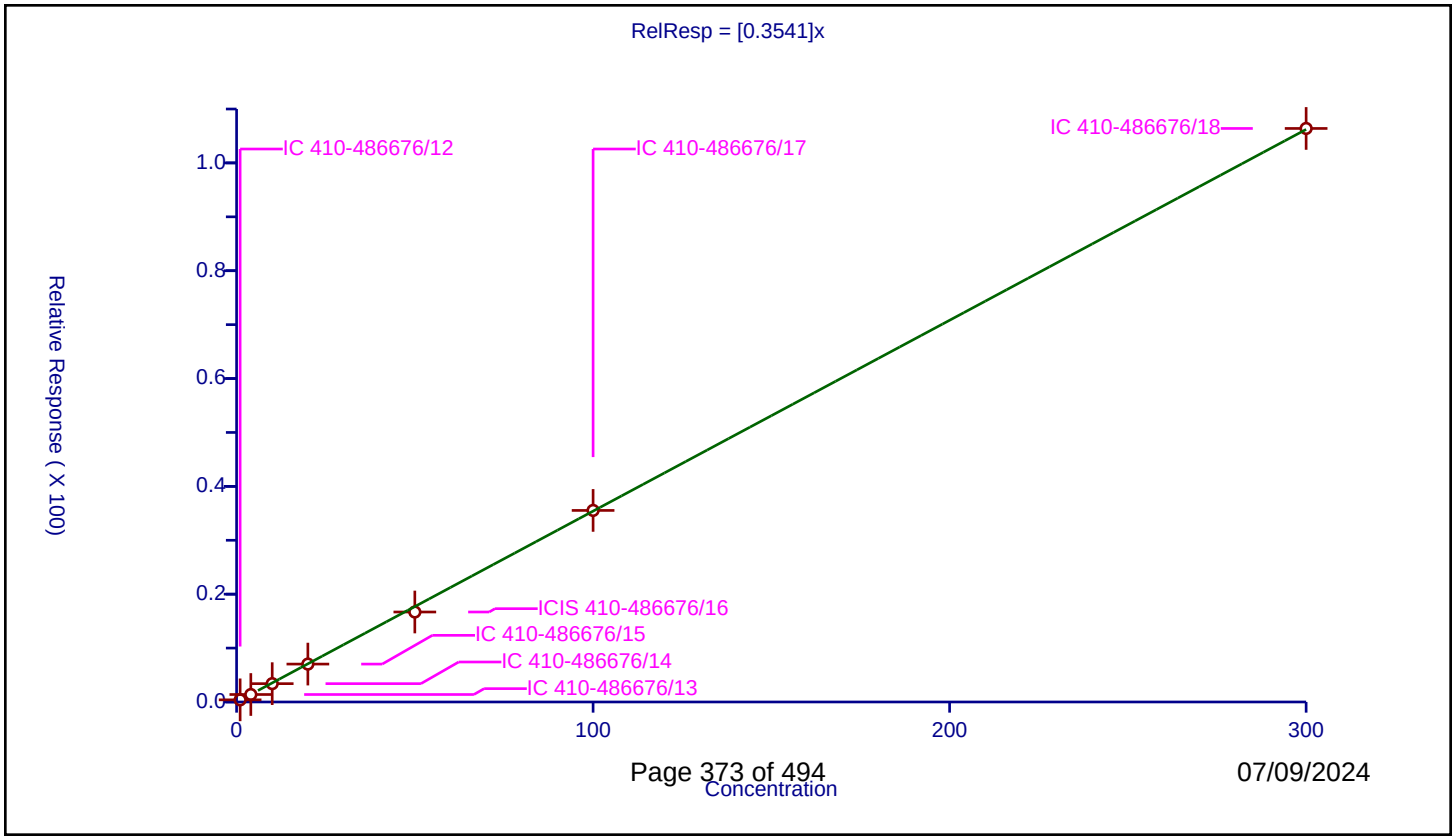
Curve Coefficients

Intercept:	0
Slope:	0.3541

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.396426	50.0	815032.0	0.396426	Y
2	IC 410-486676/13	4.0	1.385085	50.0	812080.0	0.346271	Y
3	IC 410-486676/14	10.0	3.40301	50.0	815146.0	0.340301	Y
4	IC 410-486676/15	20.0	7.03189	50.0	819097.0	0.351594	Y
5	ICIS 410-486676/16	50.0	16.692745	50.0	837226.0	0.333855	Y
6	IC 410-486676/17	100.0	35.533439	50.0	843096.0	0.355334	Y
7	IC 410-486676/18	300.0	106.391823	50.0	861945.0	0.354639	Y



Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

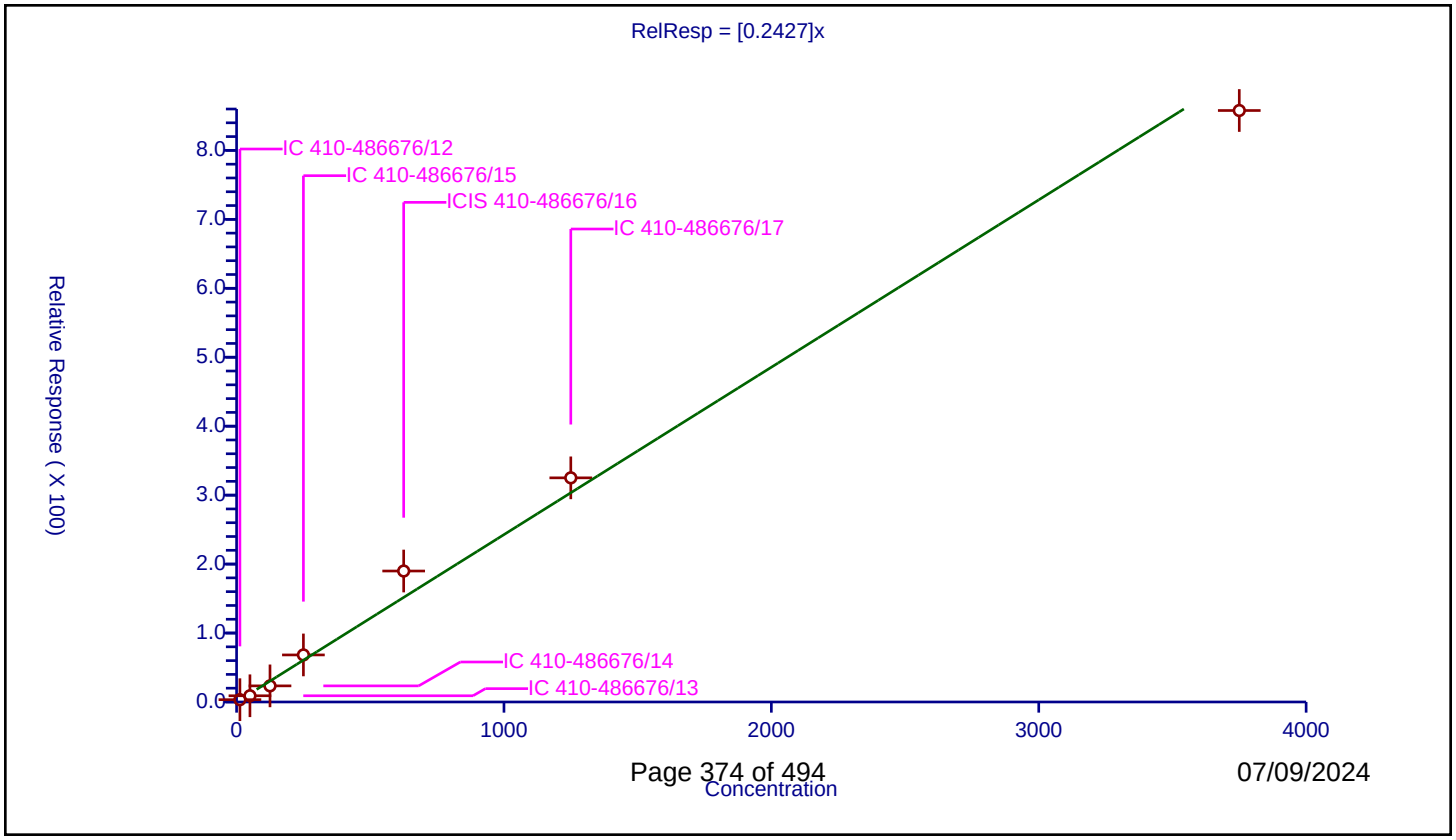
Curve Coefficients

Intercept:	0
Slope:	0.2427

Error Coefficients

Relative Standard Deviation:	18.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	12.5	3.326348	250.0	378418.0	0.266108	Y
2	IC 410-486676/13	50.0	9.023724	250.0	365952.0	0.180474	Y
3	IC 410-486676/14	125.0	23.375858	250.0	365901.0	0.187007	Y
4	IC 410-486676/15	250.0	68.223285	250.0	391329.0	0.272893	Y
5	ICIS 410-486676/16	625.0	189.943707	250.0	385838.0	0.30391	Y
6	IC 410-486676/17	1250.0	325.088321	250.0	394299.0	0.260071	Y
7	IC 410-486676/18	3750.0	857.829745	250.0	415071.0	0.228755	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

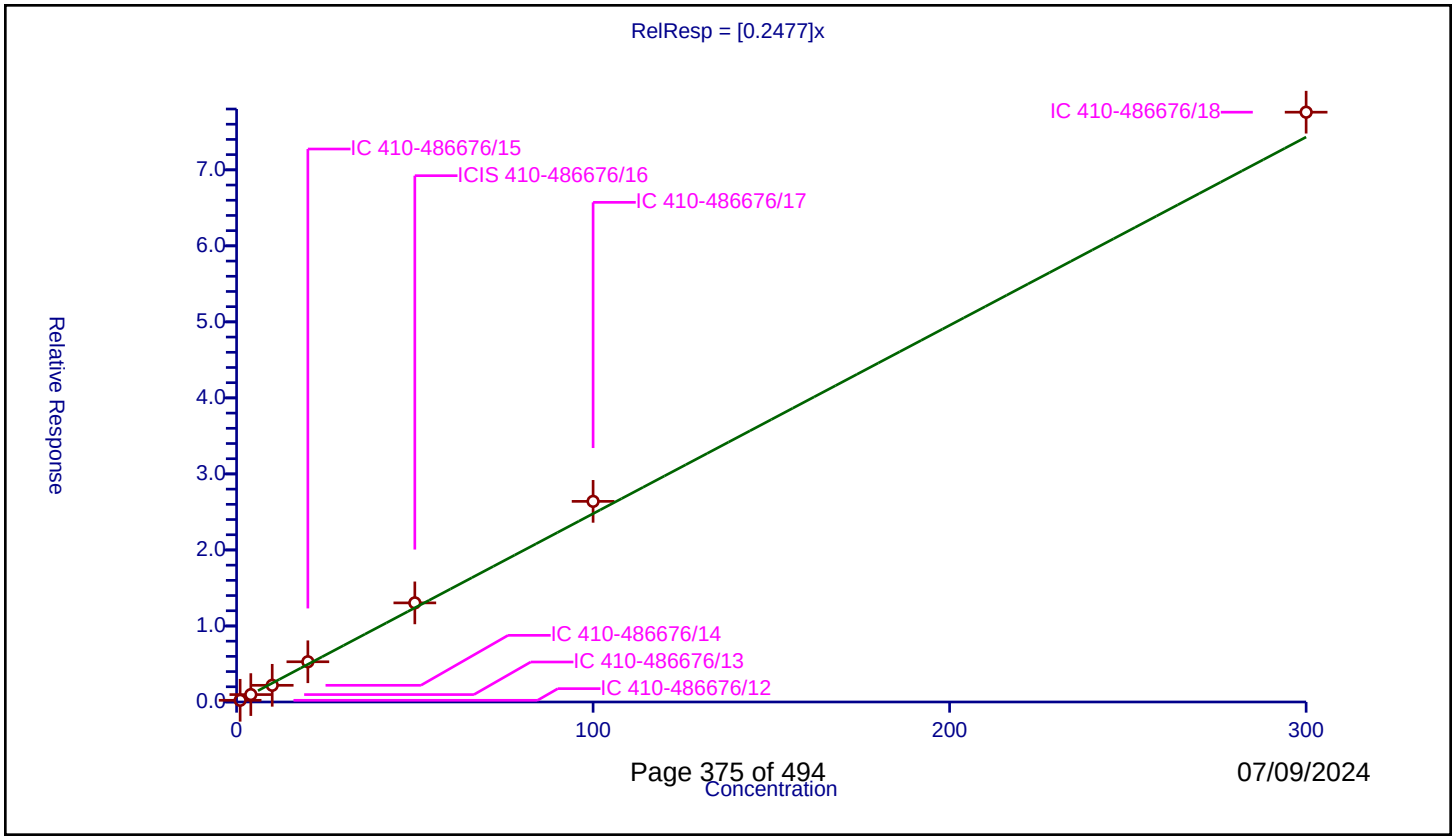
Curve Coefficients

Intercept:	0
Slope:	0.2477

Error Coefficients

Relative Standard Deviation:	7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.223795	50.0	815032.0	0.223795	Y
2	IC 410-486676/13	4.0	0.972072	50.0	812080.0	0.243018	Y
3	IC 410-486676/14	10.0	2.194147	50.0	815146.0	0.219415	Y
4	IC 410-486676/15	20.0	5.290094	50.0	819097.0	0.264505	Y
5	ICIS 410-486676/16	50.0	13.03525	50.0	837226.0	0.260705	Y
6	IC 410-486676/17	100.0	26.391479	50.0	843096.0	0.263915	Y
7	IC 410-486676/18	300.0	77.583663	50.0	861945.0	0.258612	Y



Calibration / Ethyl acrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

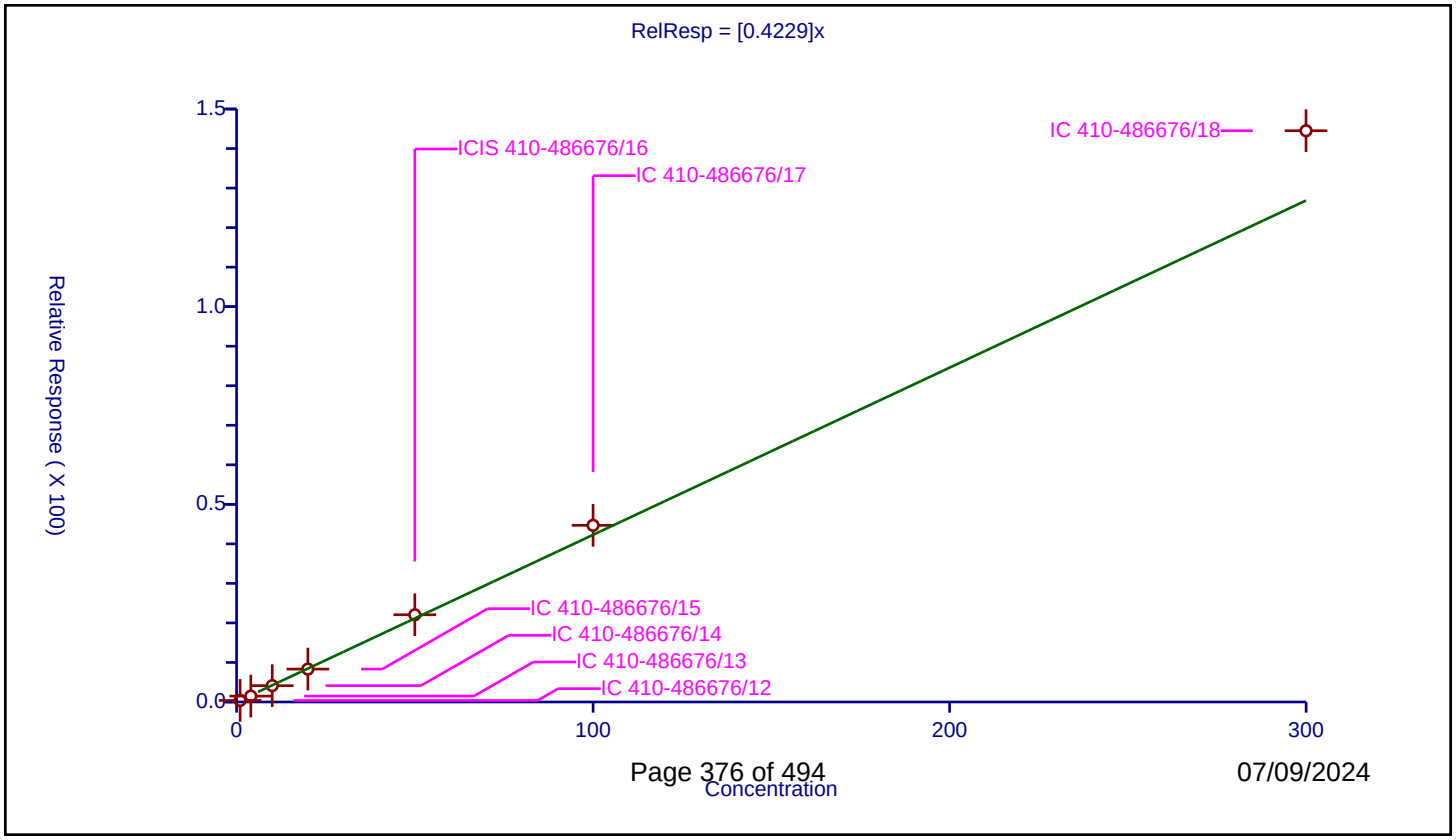
Curve Coefficients

Intercept:	0
Slope:	0.4229

Error Coefficients

Relative Standard Deviation:	8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	0.999919	0.388635	50.0	815032.0	0.388667	Y
2	IC 410-486676/13	3.999676	1.490494	50.0	812080.0	0.372654	Y
3	IC 410-486676/14	9.99919	4.128831	50.0	815146.0	0.412917	Y
4	IC 410-486676/15	19.99838	8.320443	50.0	819097.0	0.416056	Y
5	ICIS 410-486676/16	49.99595	22.065488	50.0	837226.0	0.441346	Y
6	IC 410-486676/17	99.9919	44.687556	50.0	843096.0	0.446912	Y
7	IC 410-486676/18	299.9757	144.508408	50.0	861945.0	0.481734	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

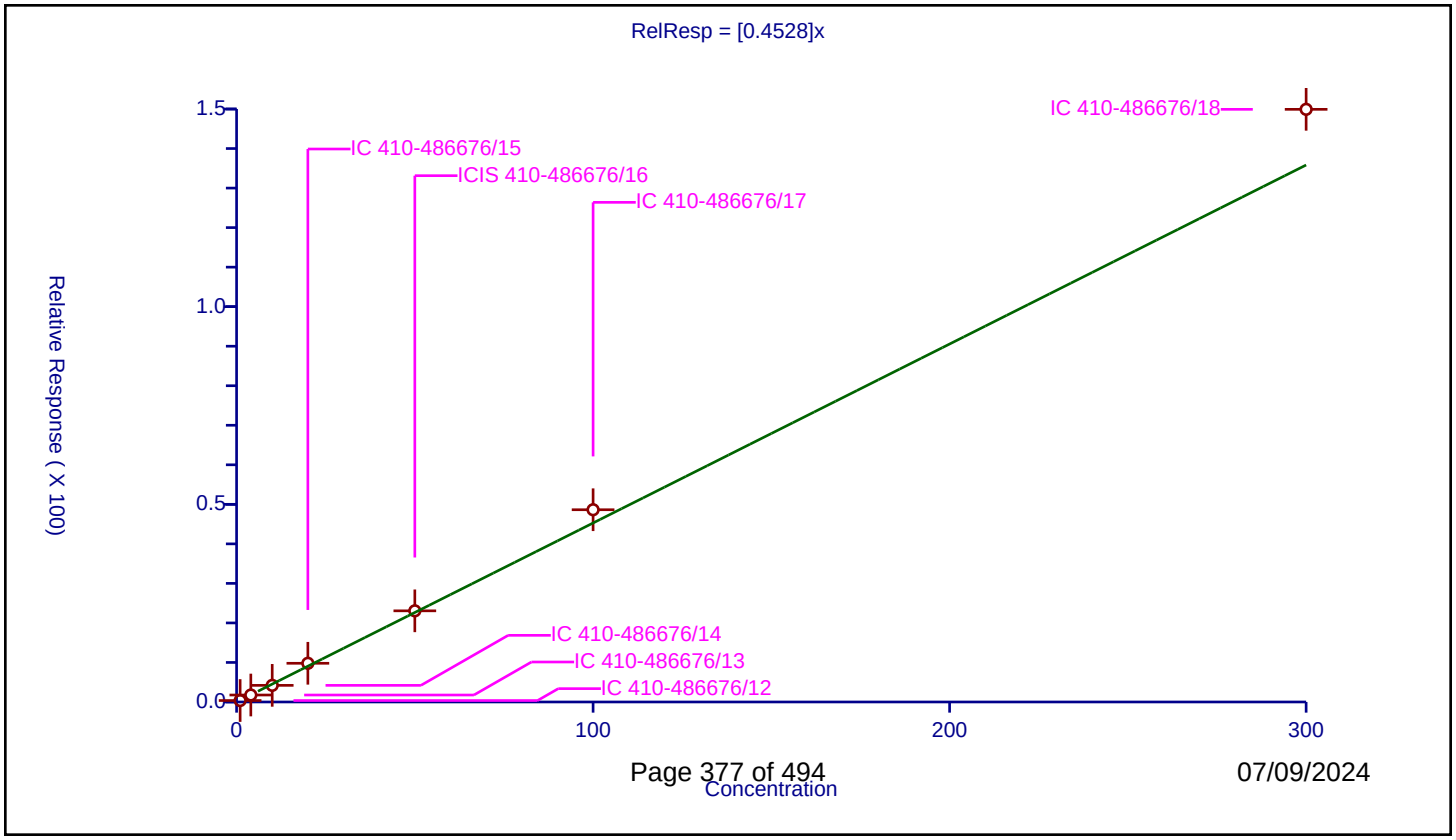
Curve Coefficients

Intercept:	0
Slope:	0.4528

Error Coefficients

Relative Standard Deviation:	10.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.370476	50.0	815032.0	0.370476	Y
2	IC 410-486676/13	4.0	1.767067	50.0	812080.0	0.441767	Y
3	IC 410-486676/14	10.0	4.205075	50.0	815146.0	0.420507	Y
4	IC 410-486676/15	20.0	9.788951	50.0	819097.0	0.489448	Y
5	ICIS 410-486676/16	50.0	23.058768	50.0	837226.0	0.461175	Y
6	IC 410-486676/17	100.0	48.630286	50.0	843096.0	0.486303	Y
7	IC 410-486676/18	300.0	149.918324	50.0	861945.0	0.499728	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

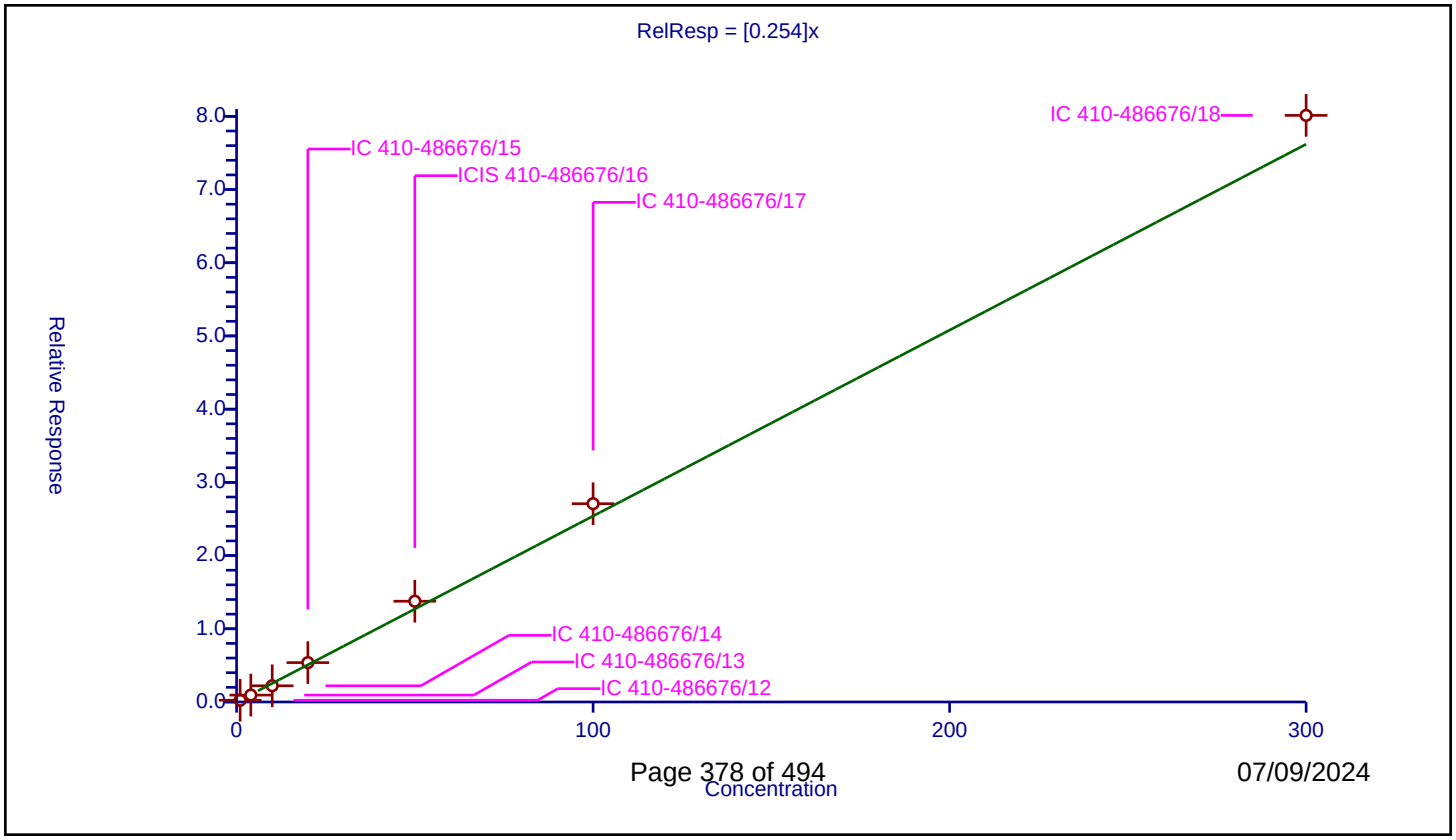
Curve Coefficients

Intercept:	0
Slope:	0.254

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.238457	50.0	815032.0	0.238457	Y
2	IC 410-486676/13	4.0	0.943257	50.0	812080.0	0.235814	Y
3	IC 410-486676/14	10.0	2.213591	50.0	815146.0	0.221359	Y
4	IC 410-486676/15	20.0	5.379827	50.0	819097.0	0.268991	Y
5	ICIS 410-486676/16	50.0	13.763488	50.0	837226.0	0.27527	Y
6	IC 410-486676/17	100.0	27.084935	50.0	843096.0	0.270849	Y
7	IC 410-486676/18	300.0	80.130461	50.0	861945.0	0.267102	Y



Calibration / 2-ethoxy-2-methyl butane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

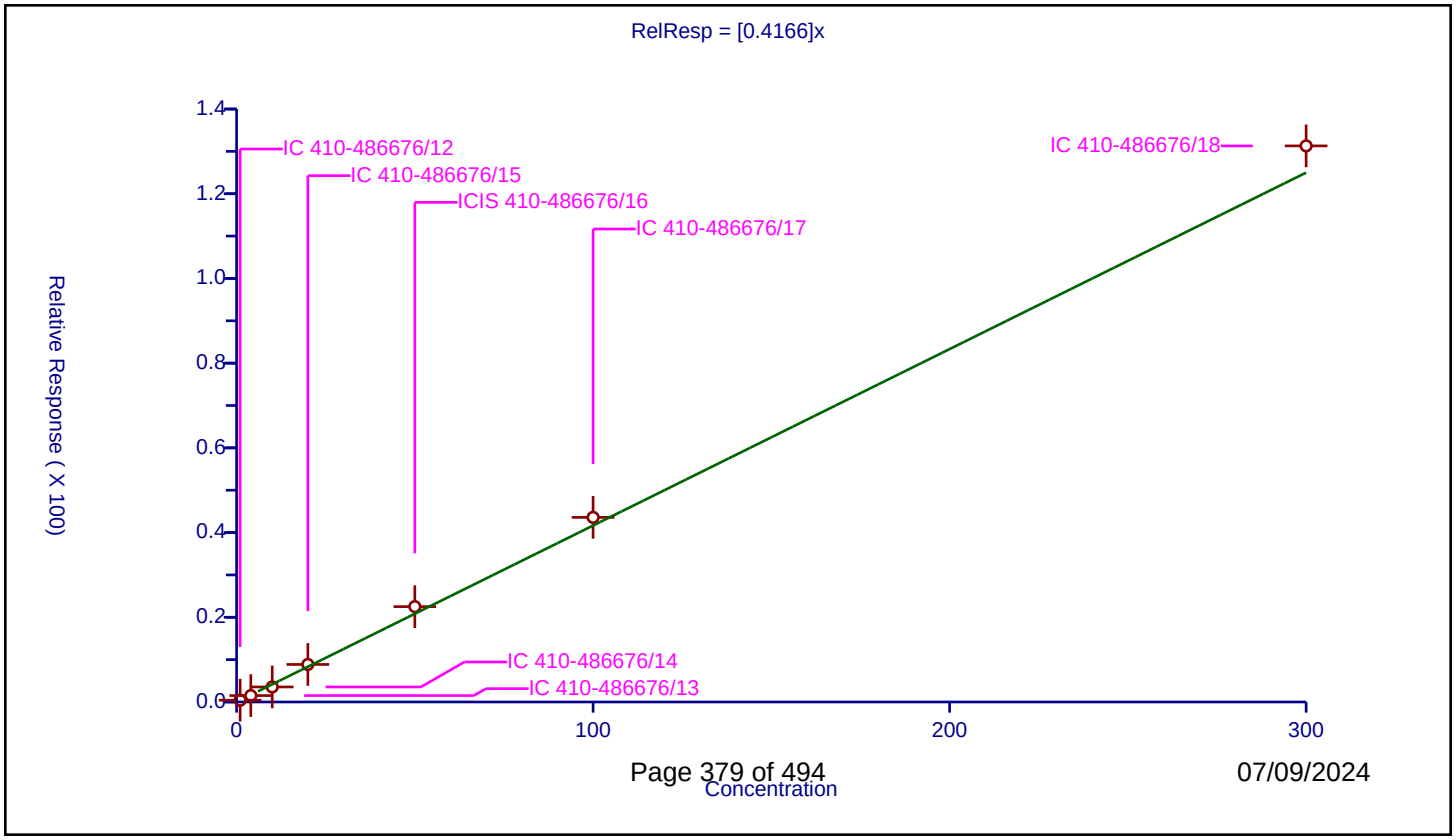
Curve Coefficients

Intercept:	0
Slope:	0.4166

Error Coefficients

Relative Standard Deviation:	8.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.416671	50.0	815032.0	0.416671	Y
2	IC 410-486676/13	4.0	1.511427	50.0	812080.0	0.377857	Y
3	IC 410-486676/14	10.0	3.548996	50.0	815146.0	0.3549	Y
4	IC 410-486676/15	20.0	8.861222	50.0	819097.0	0.443061	Y
5	ICIS 410-486676/16	50.0	22.512141	50.0	837226.0	0.450243	Y
6	IC 410-486676/17	100.0	43.584479	50.0	843096.0	0.435845	Y
7	IC 410-486676/18	300.0	131.294224	50.0	861945.0	0.437647	Y



Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

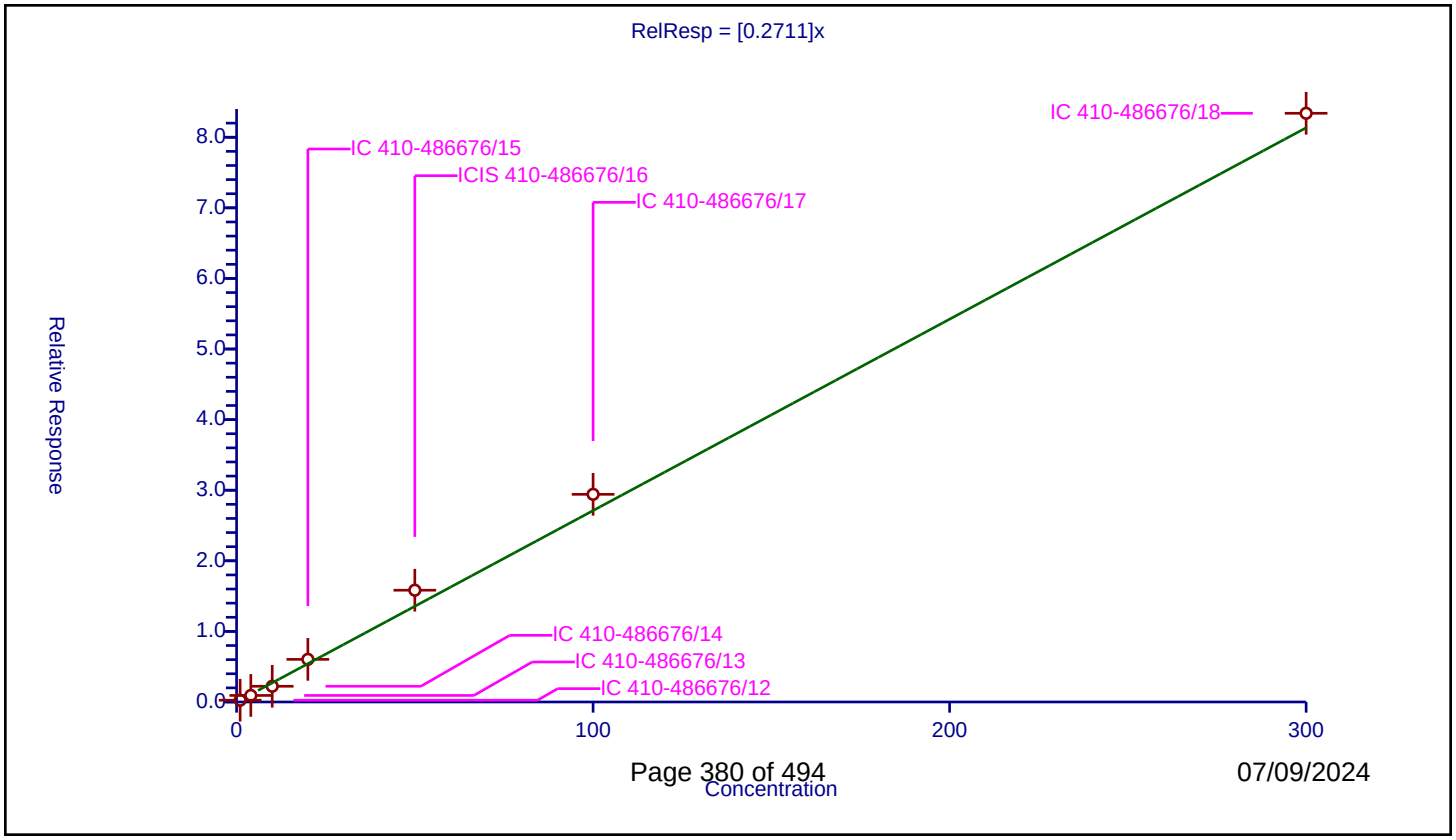
Curve Coefficients

Intercept:	0
Slope:	0.2711

Error Coefficients

Relative Standard Deviation:	13.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.252015	50.0	815032.0	0.252015	Y
2	IC 410-486676/13	4.0	0.928911	50.0	812080.0	0.232228	Y
3	IC 410-486676/14	10.0	2.228496	50.0	815146.0	0.22285	Y
4	IC 410-486676/15	20.0	6.040249	50.0	819097.0	0.302012	Y
5	ICIS 410-486676/16	50.0	15.834912	50.0	837226.0	0.316698	Y
6	IC 410-486676/17	100.0	29.418773	50.0	843096.0	0.294188	Y
7	IC 410-486676/18	300.0	83.394358	50.0	861945.0	0.277981	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

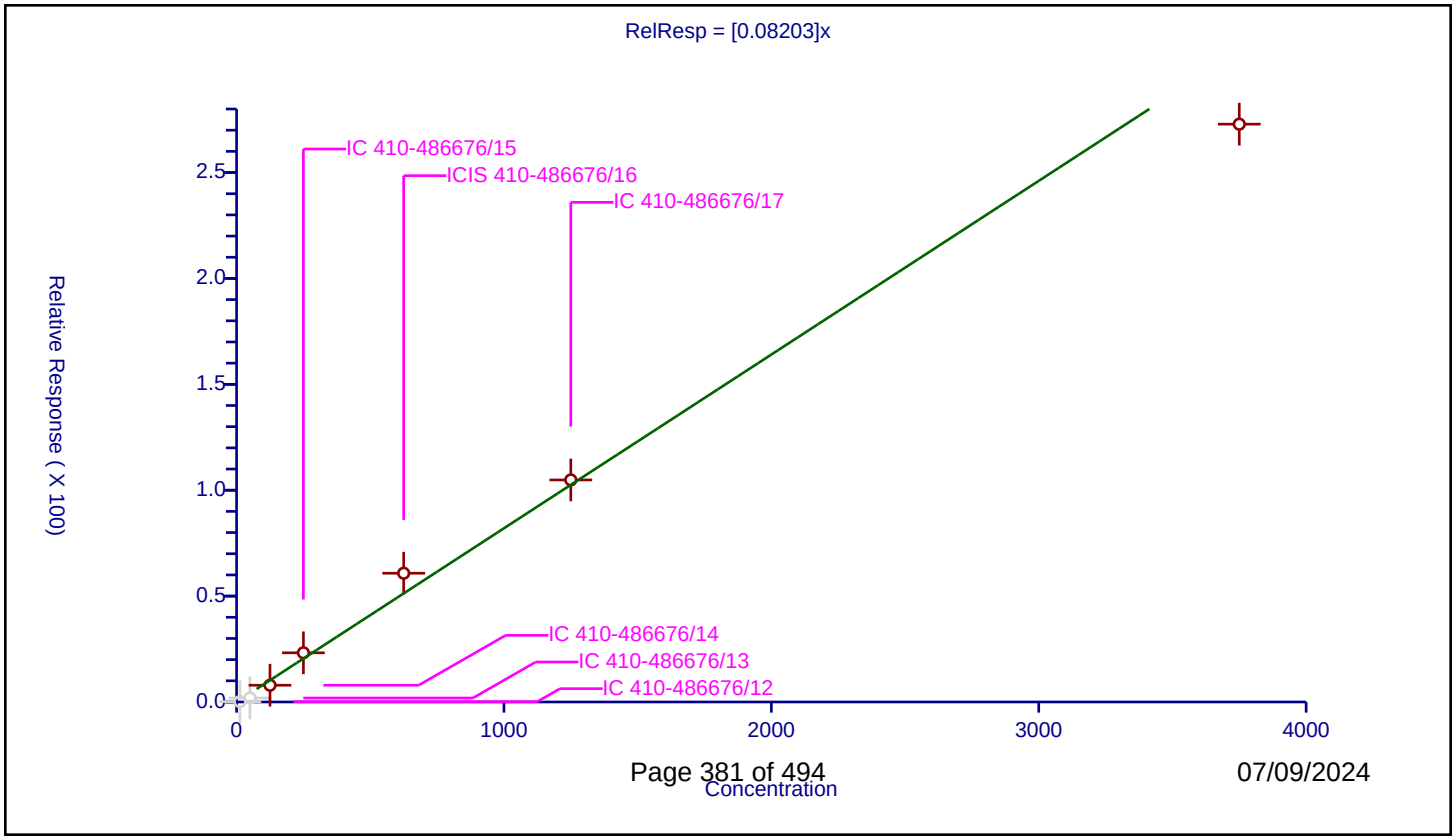
Curve Coefficients

Intercept:	0
Slope:	0.08203

Error Coefficients

Relative Standard Deviation:	17.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	12.5	0.164501	250.0	378418.0	0.01316	N
2	IC 410-486676/13	50.0	1.88481	250.0	365952.0	0.037696	N
3	IC 410-486676/14	125.0	7.913343	250.0	365901.0	0.063307	Y
4	IC 410-486676/15	250.0	23.225981	250.0	391329.0	0.092904	Y
5	ICIS 410-486676/16	625.0	60.798833	250.0	385838.0	0.097278	Y
6	IC 410-486676/17	1250.0	104.845561	250.0	394299.0	0.083876	Y
7	IC 410-486676/18	3750.0	272.851512	250.0	415071.0	0.07276	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

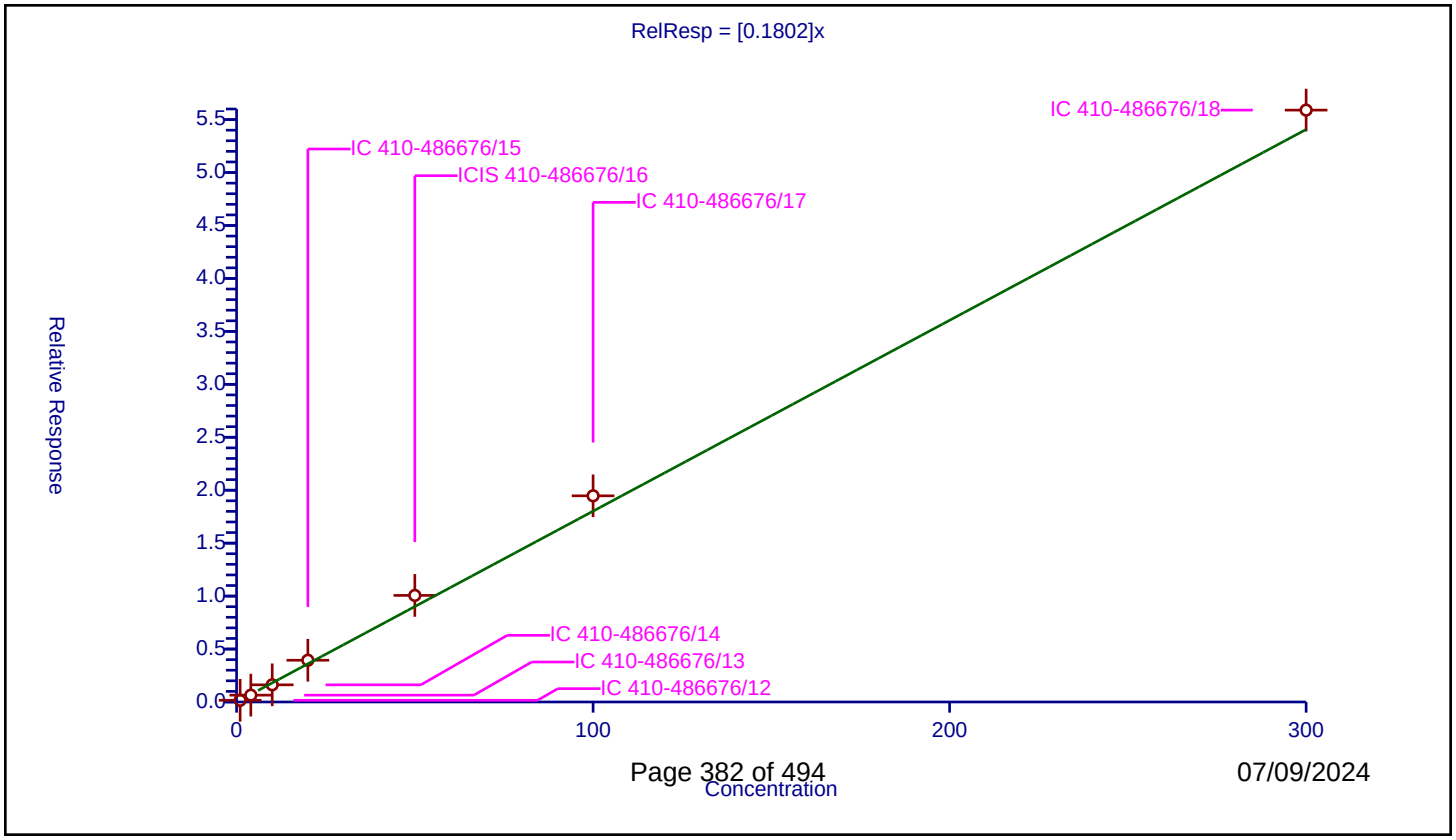
Curve Coefficients

Intercept:	0
Slope:	0.1802

Error Coefficients

Relative Standard Deviation:	10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.158644	50.0	815032.0	0.158644	Y
2	IC 410-486676/13	4.0	0.645564	50.0	812080.0	0.161391	Y
3	IC 410-486676/14	10.0	1.621305	50.0	815146.0	0.16213	Y
4	IC 410-486676/15	20.0	3.942512	50.0	819097.0	0.197126	Y
5	ICIS 410-486676/16	50.0	10.064308	50.0	837226.0	0.201286	Y
6	IC 410-486676/17	100.0	19.469906	50.0	843096.0	0.194699	Y
7	IC 410-486676/18	300.0	55.897476	50.0	861945.0	0.186325	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

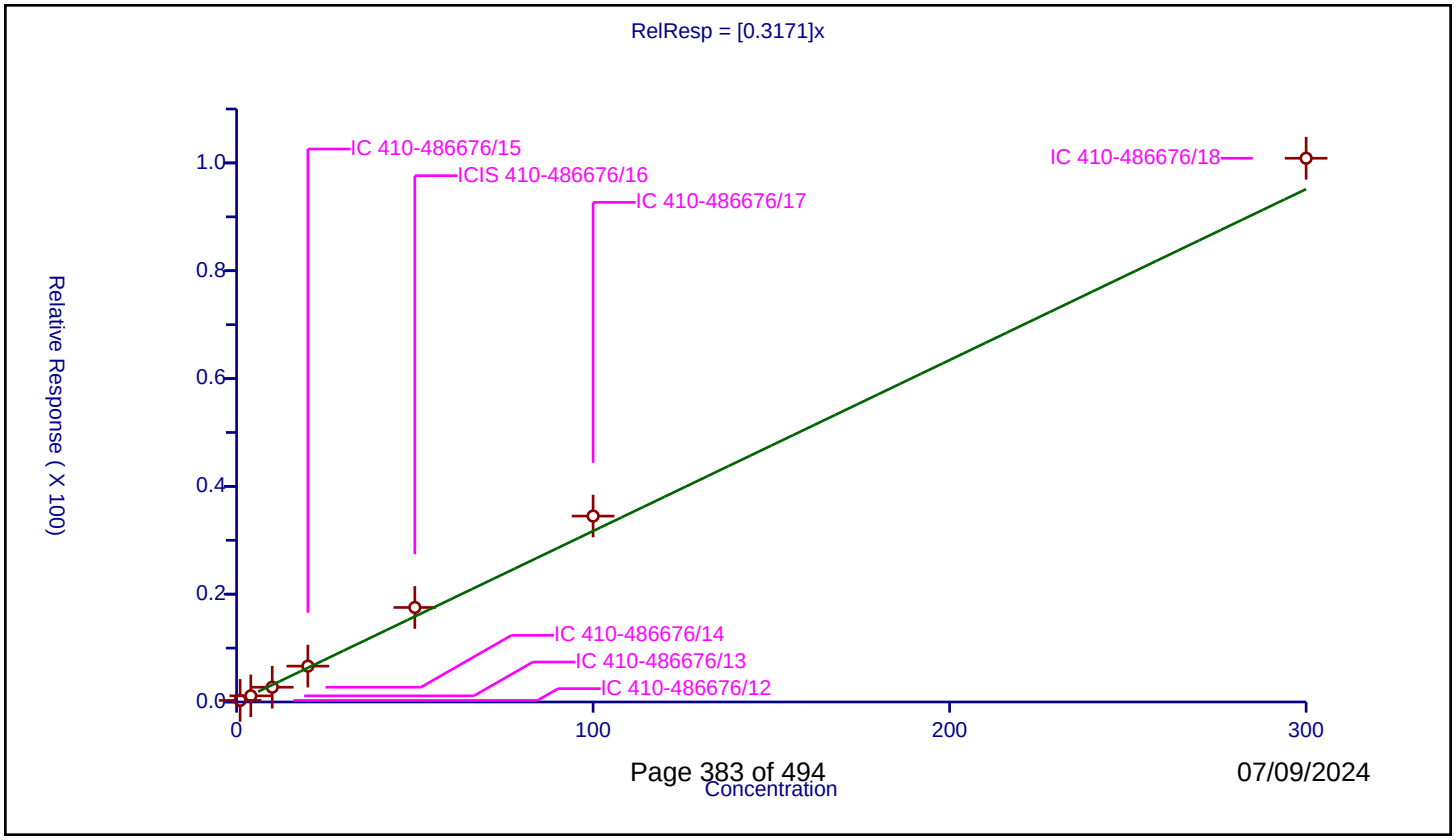
Curve Coefficients

Intercept:	0
Slope:	0.3171

Error Coefficients

Relative Standard Deviation:	9.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.296185	50.0	815032.0	0.296185	Y
2	IC 410-486676/13	4.0	1.142437	50.0	812080.0	0.285609	Y
3	IC 410-486676/14	10.0	2.73773	50.0	815146.0	0.273773	Y
4	IC 410-486676/15	20.0	6.653119	50.0	819097.0	0.332656	Y
5	ICIS 410-486676/16	50.0	17.532781	50.0	837226.0	0.350656	Y
6	IC 410-486676/17	100.0	34.487769	50.0	843096.0	0.344878	Y
7	IC 410-486676/18	300.0	100.868037	50.0	861945.0	0.336227	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

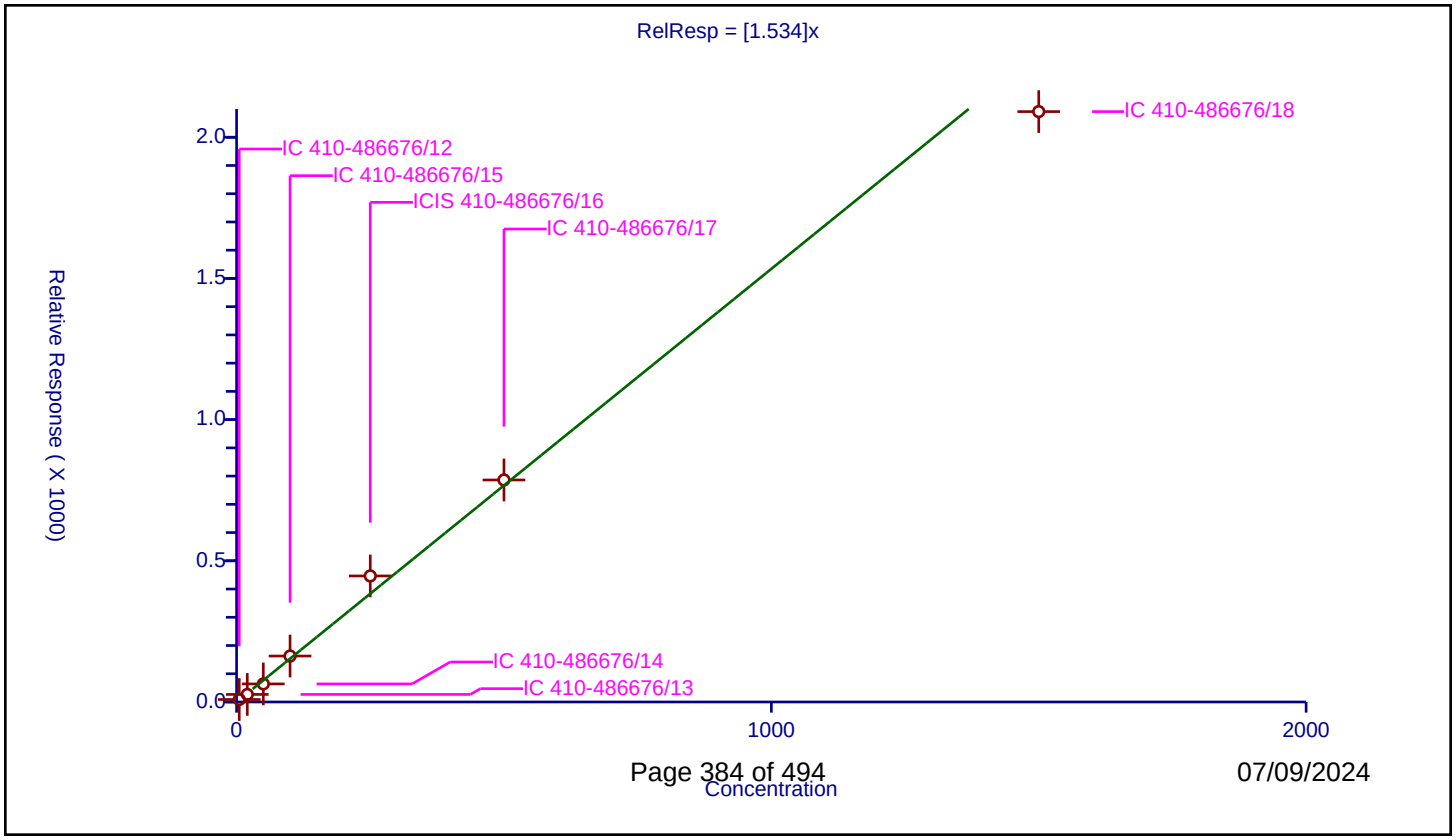
Curve Coefficients

Intercept:	0
Slope:	1.534

Error Coefficients

Relative Standard Deviation:	13.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	5.0	8.690786	250.0	378418.0	1.738157	Y
2	IC 410-486676/13	20.0	26.787666	250.0	365952.0	1.339383	Y
3	IC 410-486676/14	50.0	63.995452	250.0	365901.0	1.279909	Y
4	IC 410-486676/15	100.0	162.760746	250.0	391329.0	1.627607	Y
5	ICIS 410-486676/16	250.0	446.386178	250.0	385838.0	1.785545	Y
6	IC 410-486676/17	500.0	786.26943	250.0	394299.0	1.572539	Y
7	IC 410-486676/18	1500.0	2090.85012	250.0	415071.0	1.3939	Y



Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

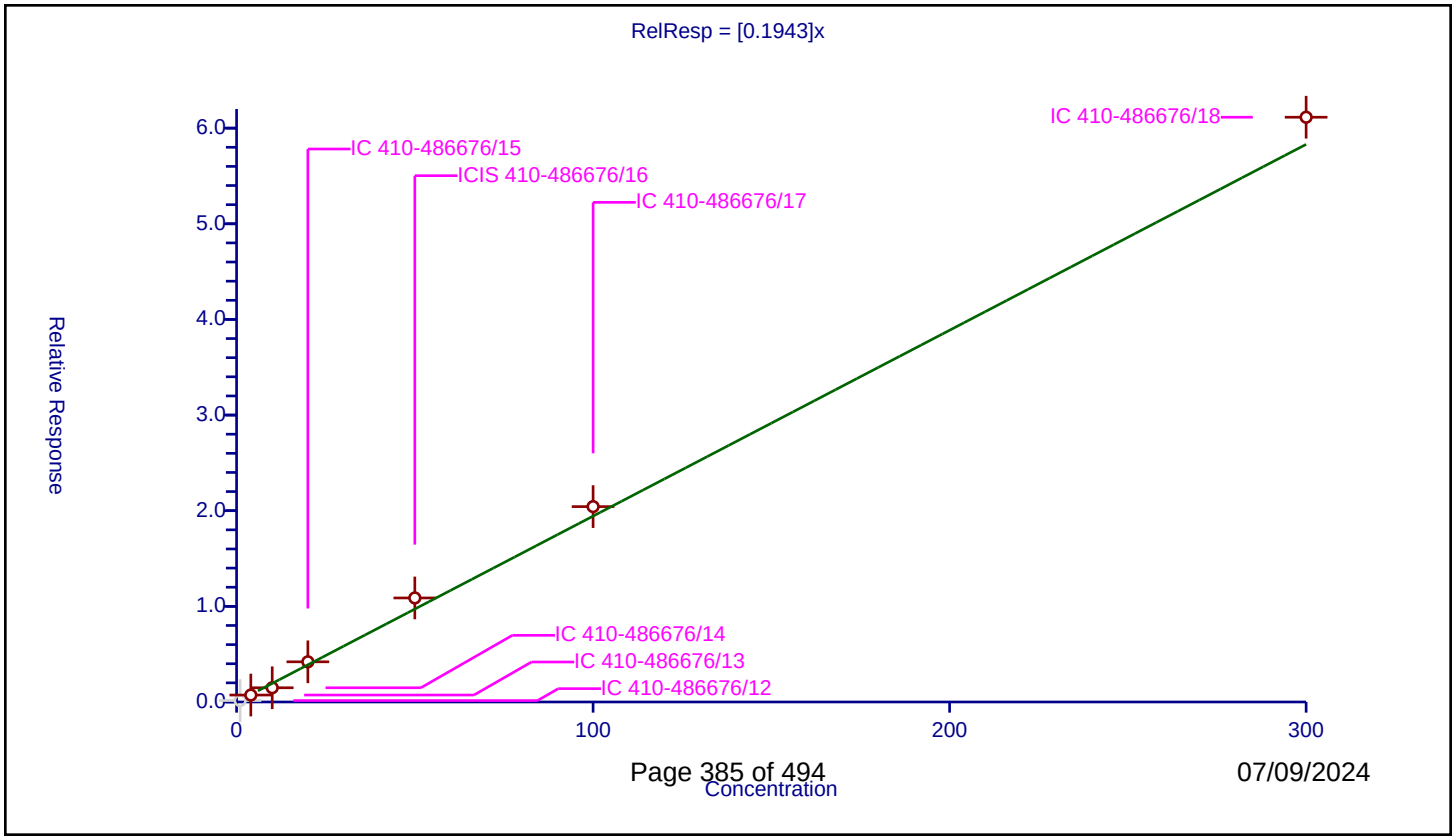
Curve Coefficients

Intercept:	0
Slope:	0.1943

Error Coefficients

Relative Standard Deviation:	13.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.149442	50.0	815032.0	0.149442	N
2	IC 410-486676/13	4.0	0.726529	50.0	812080.0	0.181632	Y
3	IC 410-486676/14	10.0	1.488016	50.0	815146.0	0.148802	Y
4	IC 410-486676/15	20.0	4.199564	50.0	819097.0	0.209978	Y
5	ICIS 410-486676/16	50.0	10.87938	50.0	837226.0	0.217588	Y
6	IC 410-486676/17	100.0	20.426855	50.0	843096.0	0.204269	Y
7	IC 410-486676/18	300.0	61.140792	50.0	861945.0	0.203803	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

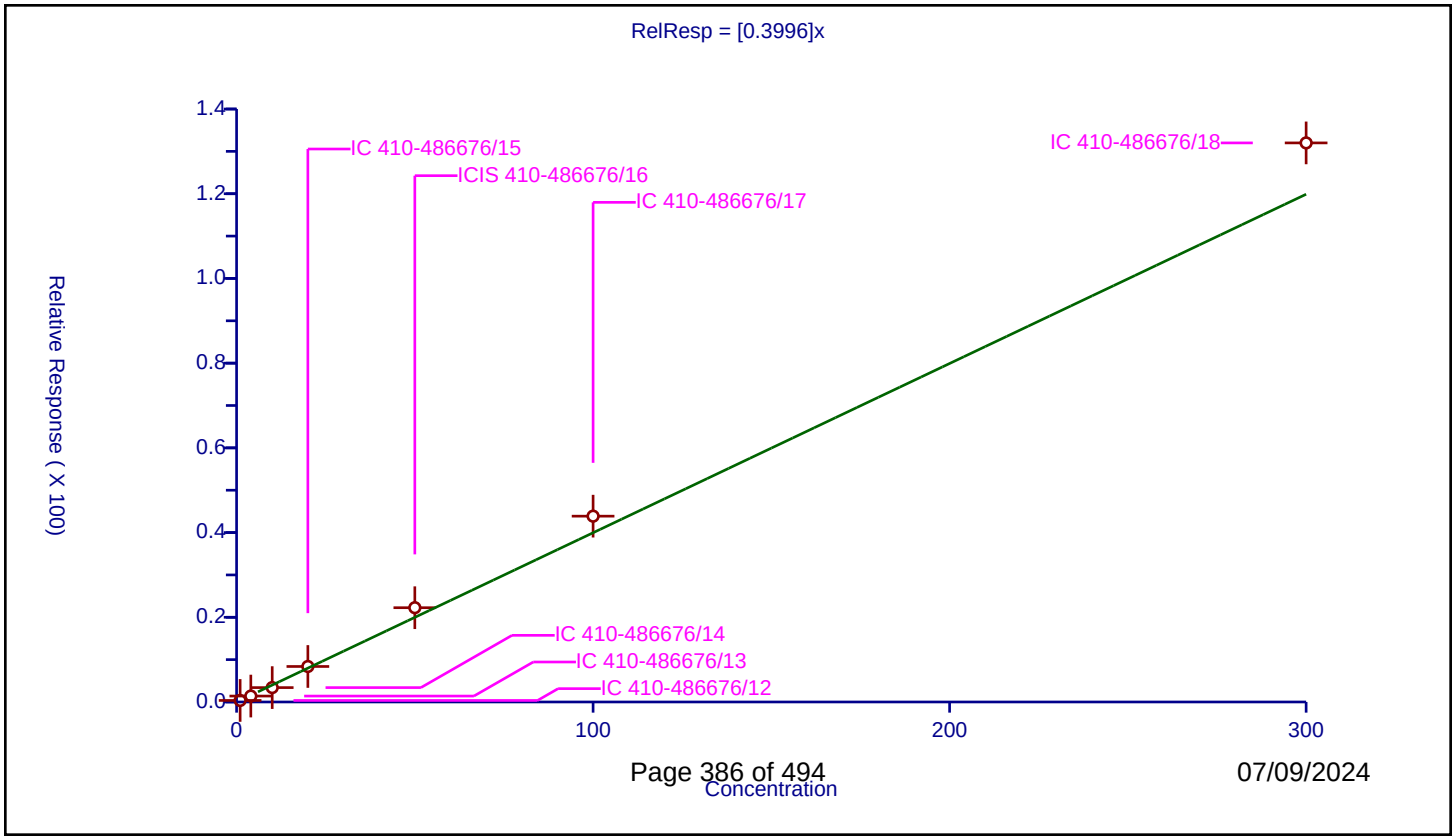
Curve Coefficients

Intercept:	0
Slope:	0.3996

Error Coefficients

Relative Standard Deviation:	11.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.364096	50.0	815032.0	0.364096	Y
2	IC 410-486676/13	4.0	1.399308	50.0	812080.0	0.349827	Y
3	IC 410-486676/14	10.0	3.399084	50.0	815146.0	0.339908	Y
4	IC 410-486676/15	20.0	8.385698	50.0	819097.0	0.419285	Y
5	ICIS 410-486676/16	50.0	22.261373	50.0	837226.0	0.445227	Y
6	IC 410-486676/17	100.0	43.874482	50.0	843096.0	0.438745	Y
7	IC 410-486676/18	300.0	131.998445	50.0	861945.0	0.439995	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

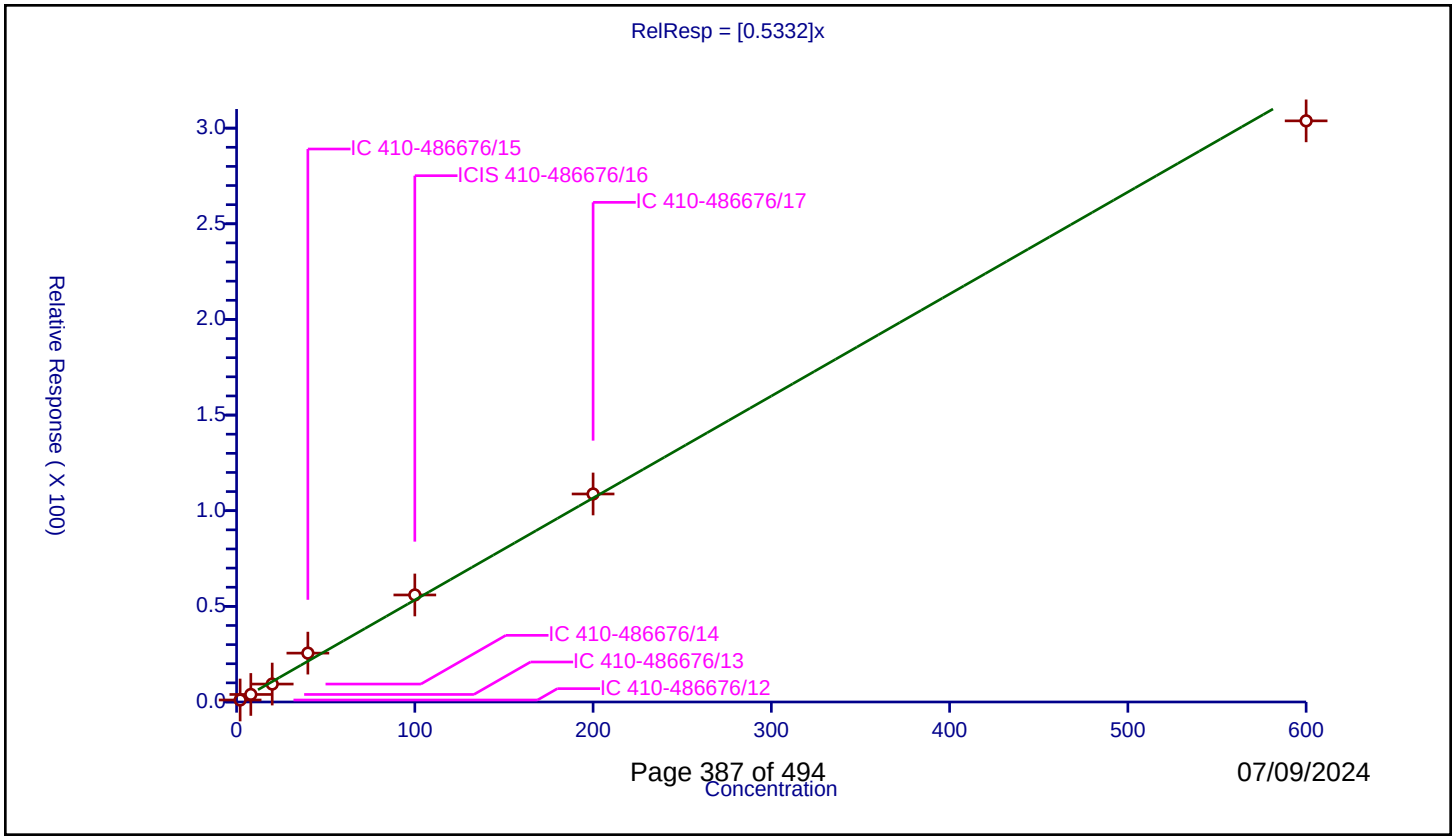
Curve Coefficients

Intercept:	0
Slope:	0.5332

Error Coefficients

Relative Standard Deviation:	10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	2.0	1.044499	50.0	815032.0	0.522249	Y
2	IC 410-486676/13	8.0	3.941176	50.0	812080.0	0.492647	Y
3	IC 410-486676/14	20.0	9.381694	50.0	815146.0	0.469085	Y
4	IC 410-486676/15	40.0	25.547341	50.0	819097.0	0.638684	Y
5	ICIS 410-486676/16	100.0	55.946722	50.0	837226.0	0.559467	Y
6	IC 410-486676/17	200.0	108.747106	50.0	843096.0	0.543736	Y
7	IC 410-486676/18	600.0	303.811438	50.0	861945.0	0.506352	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

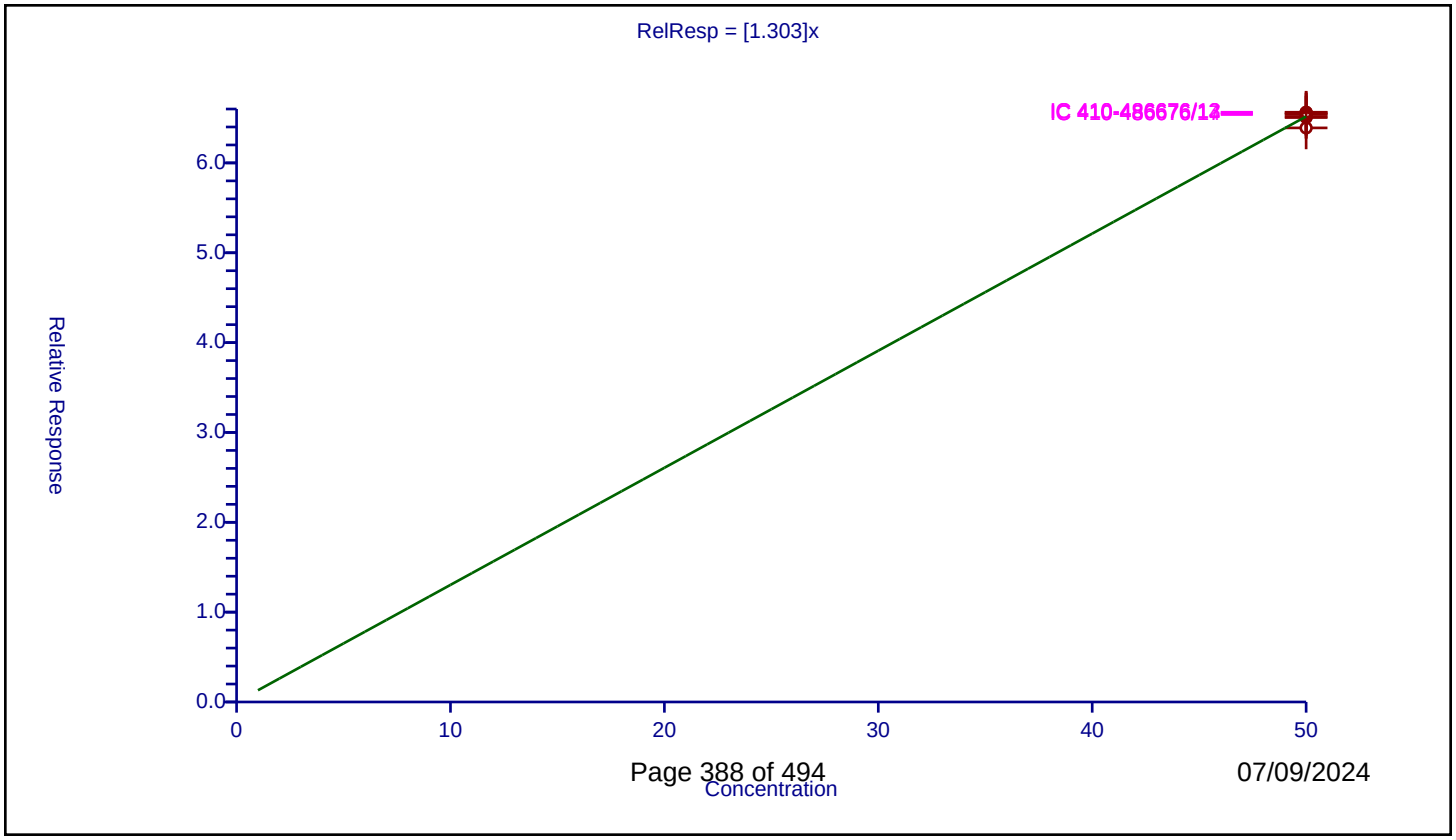
Curve Coefficients

Intercept:	0
Slope:	1.303

Error Coefficients

Relative Standard Deviation:	0.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	50.0	65.60124	50.0	604218.0	1.312025	Y
2	IC 410-486676/13	50.0	65.640557	50.0	604419.0	1.312811	Y
3	IC 410-486676/14	50.0	65.445477	50.0	608505.0	1.30891	Y
4	IC 410-486676/15	50.0	65.125347	50.0	620875.0	1.302507	Y
5	ICIS 410-486676/16	50.0	65.054443	50.0	636078.0	1.301089	Y
6	IC 410-486676/17	50.0	65.390348	50.0	642721.0	1.307807	Y
7	IC 410-486676/18	50.0	63.898307	50.0	689271.0	1.277966	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

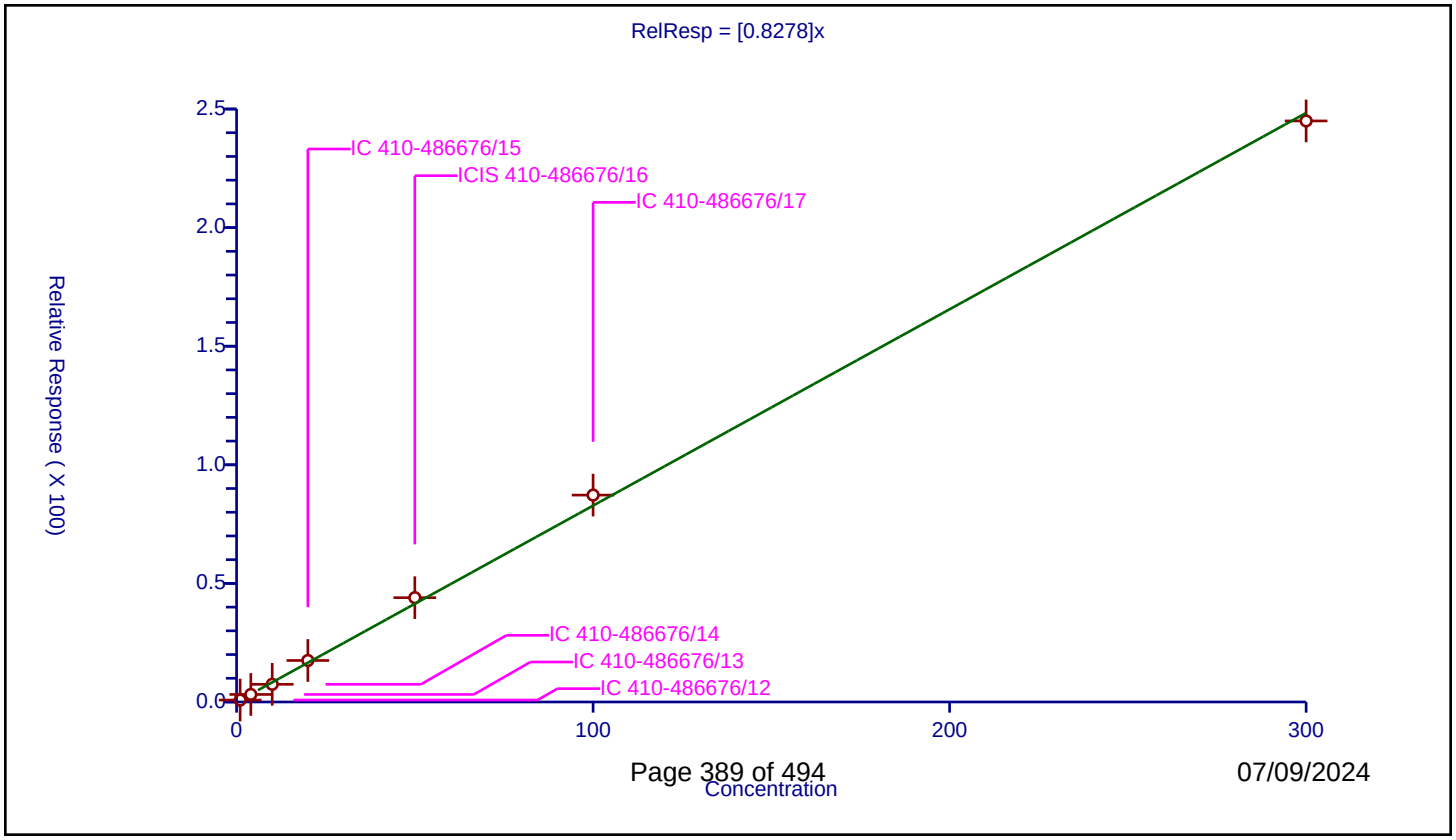
Curve Coefficients

Intercept:	0
Slope:	0.8278

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.811959	50.0	604218.0	0.811959	Y
2	IC 410-486676/13	4.0	3.179169	50.0	604419.0	0.794792	Y
3	IC 410-486676/14	10.0	7.445296	50.0	608505.0	0.74453	Y
4	IC 410-486676/15	20.0	17.501268	50.0	620875.0	0.875063	Y
5	ICIS 410-486676/16	50.0	43.977468	50.0	636078.0	0.879549	Y
6	IC 410-486676/17	100.0	87.227428	50.0	642721.0	0.872274	Y
7	IC 410-486676/18	300.0	244.977955	50.0	689271.0	0.816593	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

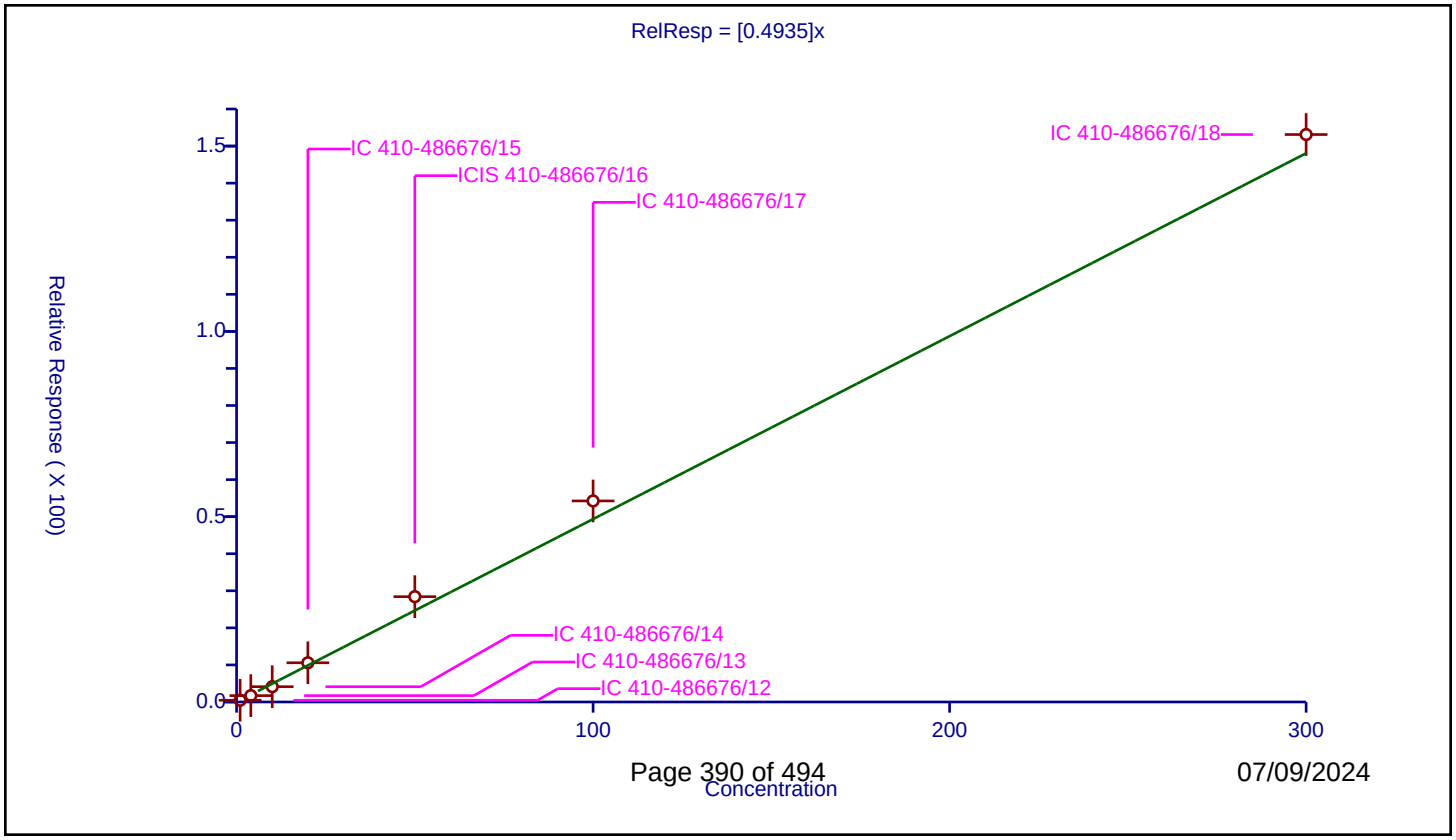
Curve Coefficients

Intercept:	0
Slope:	0.4935

Error Coefficients

Relative Standard Deviation:	12.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.463243	50.0	604218.0	0.463243	Y
2	IC 410-486676/13	4.0	1.714291	50.0	604419.0	0.428573	Y
3	IC 410-486676/14	10.0	4.127575	50.0	608505.0	0.412757	Y
4	IC 410-486676/15	20.0	10.577411	50.0	620875.0	0.528871	Y
5	ICIS 410-486676/16	50.0	28.418763	50.0	636078.0	0.568375	Y
6	IC 410-486676/17	100.0	54.249744	50.0	642721.0	0.542497	Y
7	IC 410-486676/18	300.0	153.115175	50.0	689271.0	0.510384	Y



Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

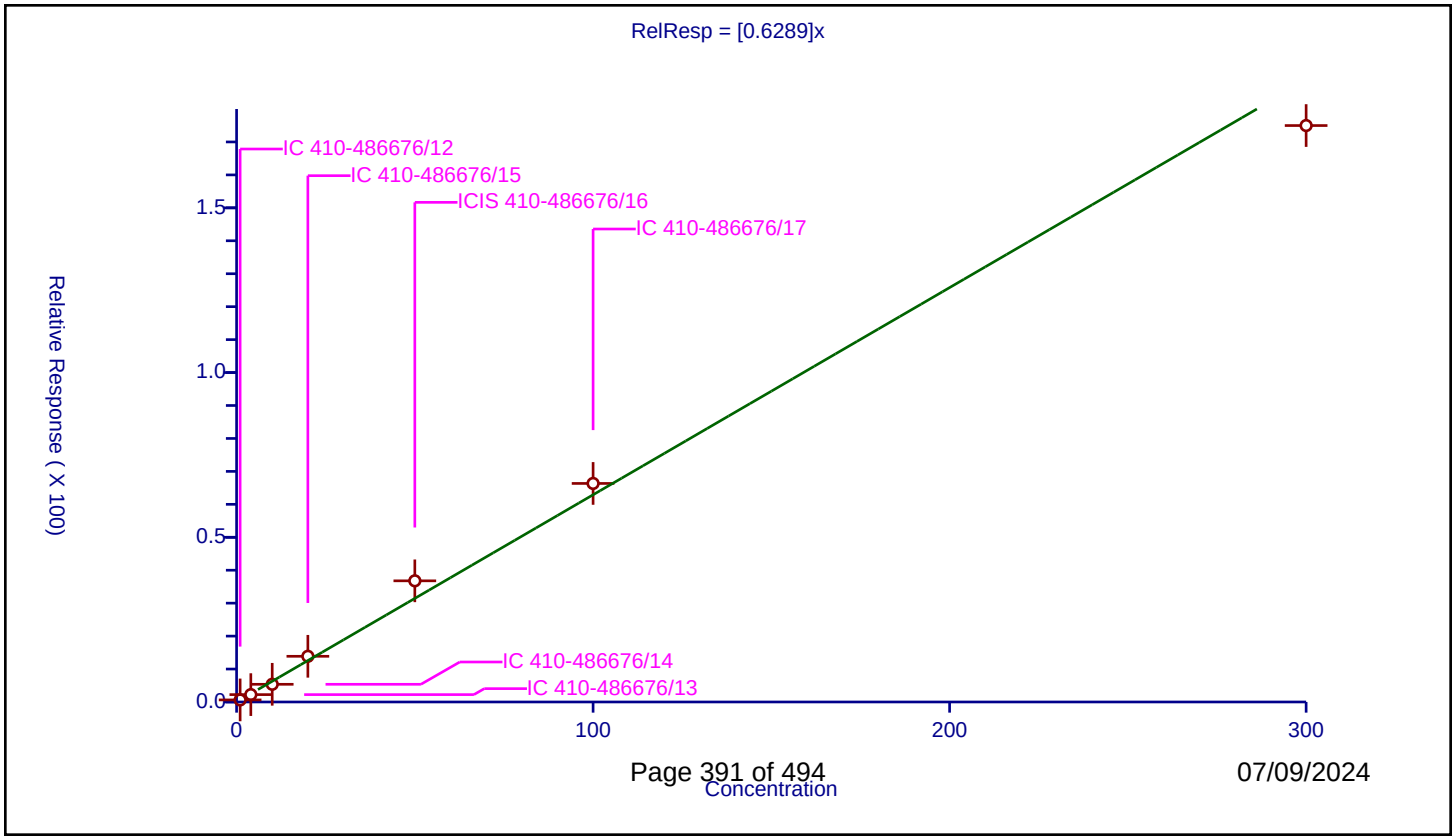
Curve Coefficients

Intercept:	0
Slope:	0.6289

Error Coefficients

Relative Standard Deviation:	11.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.629078	50.0	604218.0	0.629078	Y
2	IC 410-486676/13	4.0	2.240581	50.0	604419.0	0.560145	Y
3	IC 410-486676/14	10.0	5.374401	50.0	608505.0	0.53744	Y
4	IC 410-486676/15	20.0	13.873968	50.0	620875.0	0.693698	Y
5	ICIS 410-486676/16	50.0	36.782596	50.0	636078.0	0.735652	Y
6	IC 410-486676/17	100.0	66.336949	50.0	642721.0	0.663369	Y
7	IC 410-486676/18	300.0	174.977404	50.0	689271.0	0.583258	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

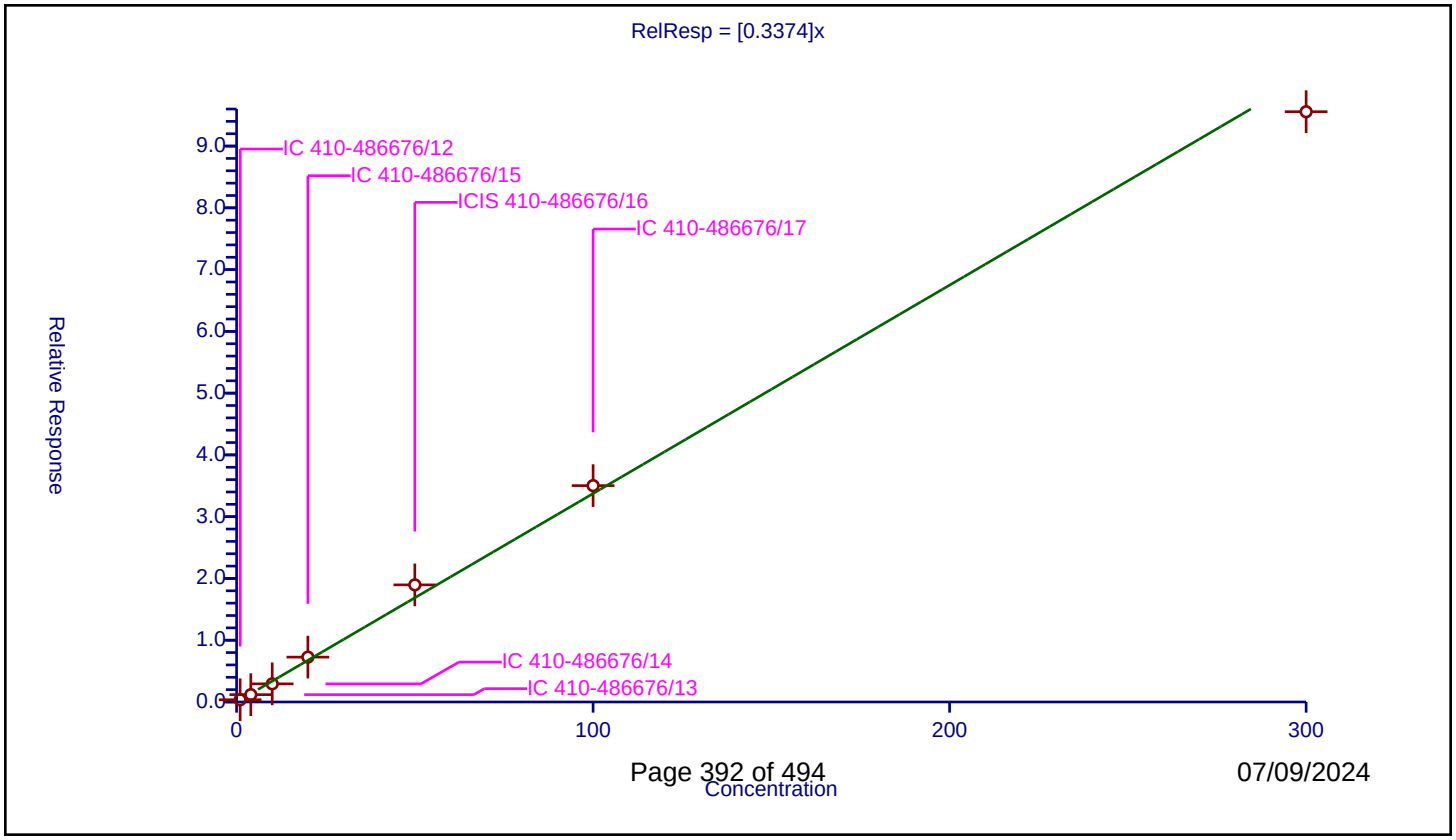
Curve Coefficients

Intercept:	0
Slope:	0.3374

Error Coefficients

Relative Standard Deviation:	10.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.3603	50.0	604218.0	0.3603	Y
2	IC 410-486676/13	4.0	1.188083	50.0	604419.0	0.297021	Y
3	IC 410-486676/14	10.0	2.936377	50.0	608505.0	0.293638	Y
4	IC 410-486676/15	20.0	7.262976	50.0	620875.0	0.363149	Y
5	ICIS 410-486676/16	50.0	18.959467	50.0	636078.0	0.379189	Y
6	IC 410-486676/17	100.0	35.028652	50.0	642721.0	0.350287	Y
7	IC 410-486676/18	300.0	95.562268	50.0	689271.0	0.318541	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

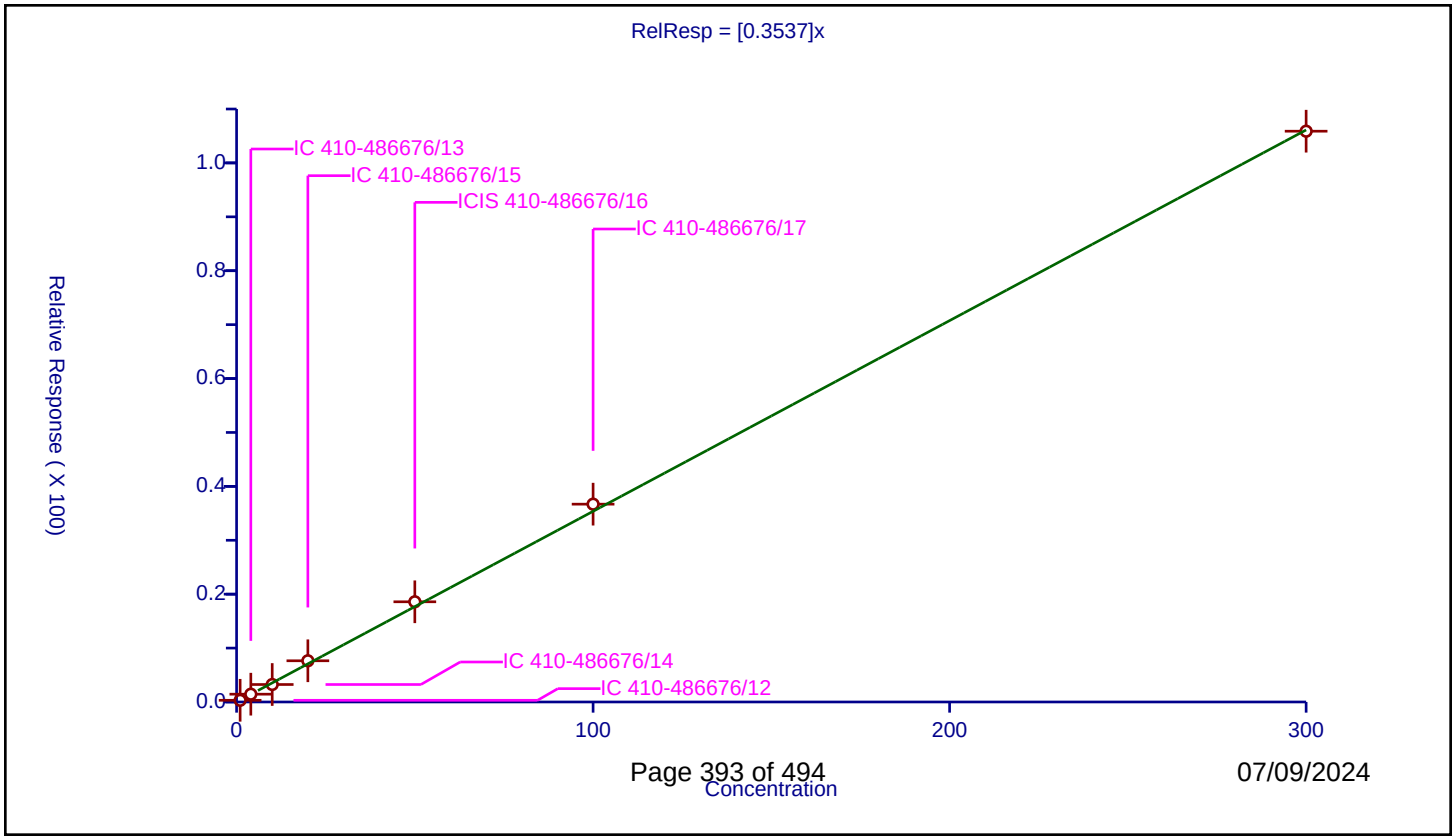
Curve Coefficients

Intercept:	0
Slope:	0.3537

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.316111	50.0	604218.0	0.316111	Y
2	IC 410-486676/13	4.0	1.447754	50.0	604419.0	0.361938	Y
3	IC 410-486676/14	10.0	3.240976	50.0	608505.0	0.324098	Y
4	IC 410-486676/15	20.0	7.644856	50.0	620875.0	0.382243	Y
5	ICIS 410-486676/16	50.0	18.589623	50.0	636078.0	0.371792	Y
6	IC 410-486676/17	100.0	36.695705	50.0	642721.0	0.366957	Y
7	IC 410-486676/18	300.0	105.88455	50.0	689271.0	0.352949	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

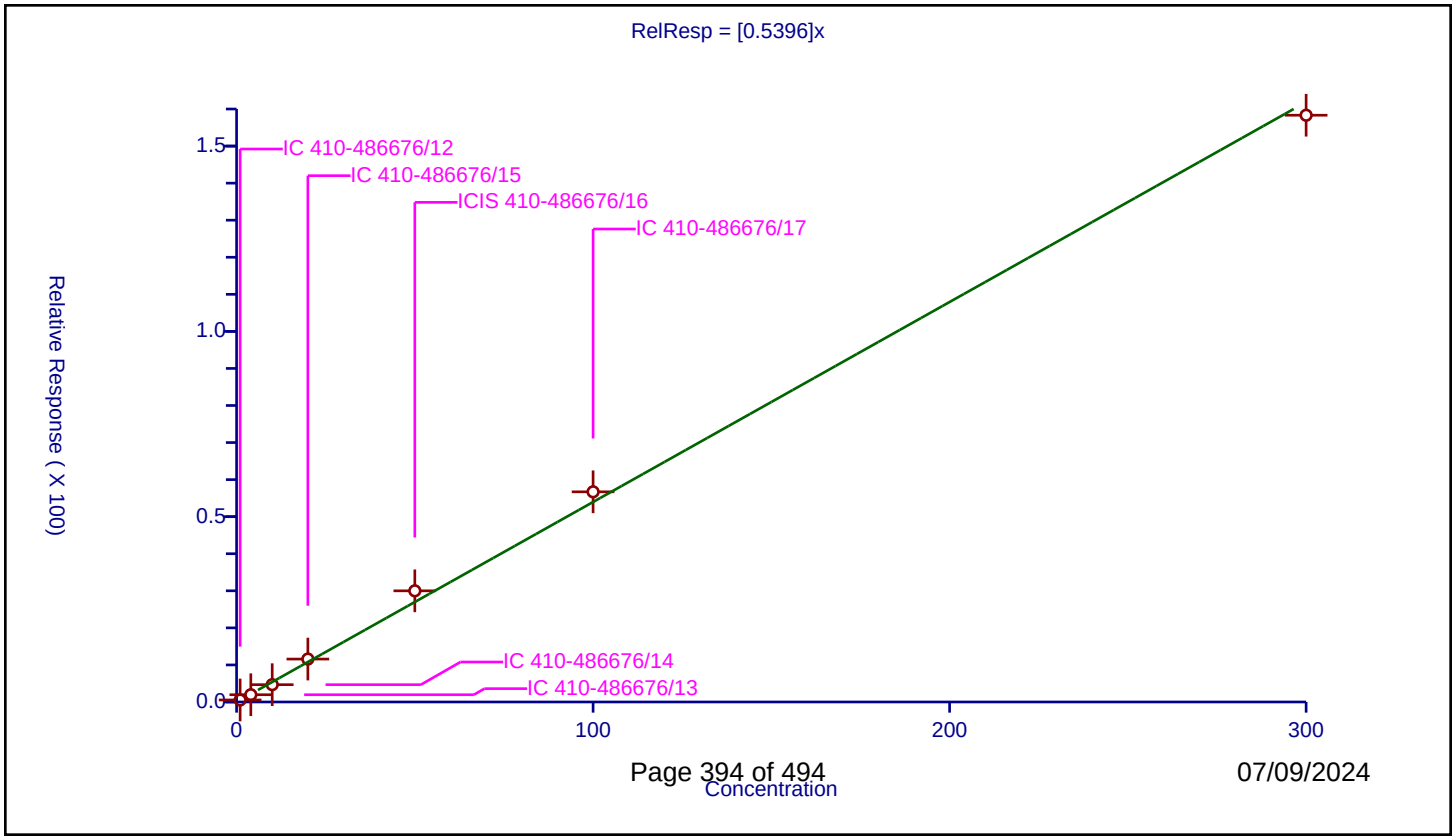
Curve Coefficients

Intercept:	0
Slope:	0.5396

Error Coefficients

Relative Standard Deviation:	8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.545167	50.0	604218.0	0.545167	Y
2	IC 410-486676/13	4.0	1.963787	50.0	604419.0	0.490947	Y
3	IC 410-486676/14	10.0	4.673832	50.0	608505.0	0.467383	Y
4	IC 410-486676/15	20.0	11.583088	50.0	620875.0	0.579154	Y
5	ICIS 410-486676/16	50.0	29.992941	50.0	636078.0	0.599859	Y
6	IC 410-486676/17	100.0	56.707732	50.0	642721.0	0.567077	Y
7	IC 410-486676/18	300.0	158.322561	50.0	689271.0	0.527742	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

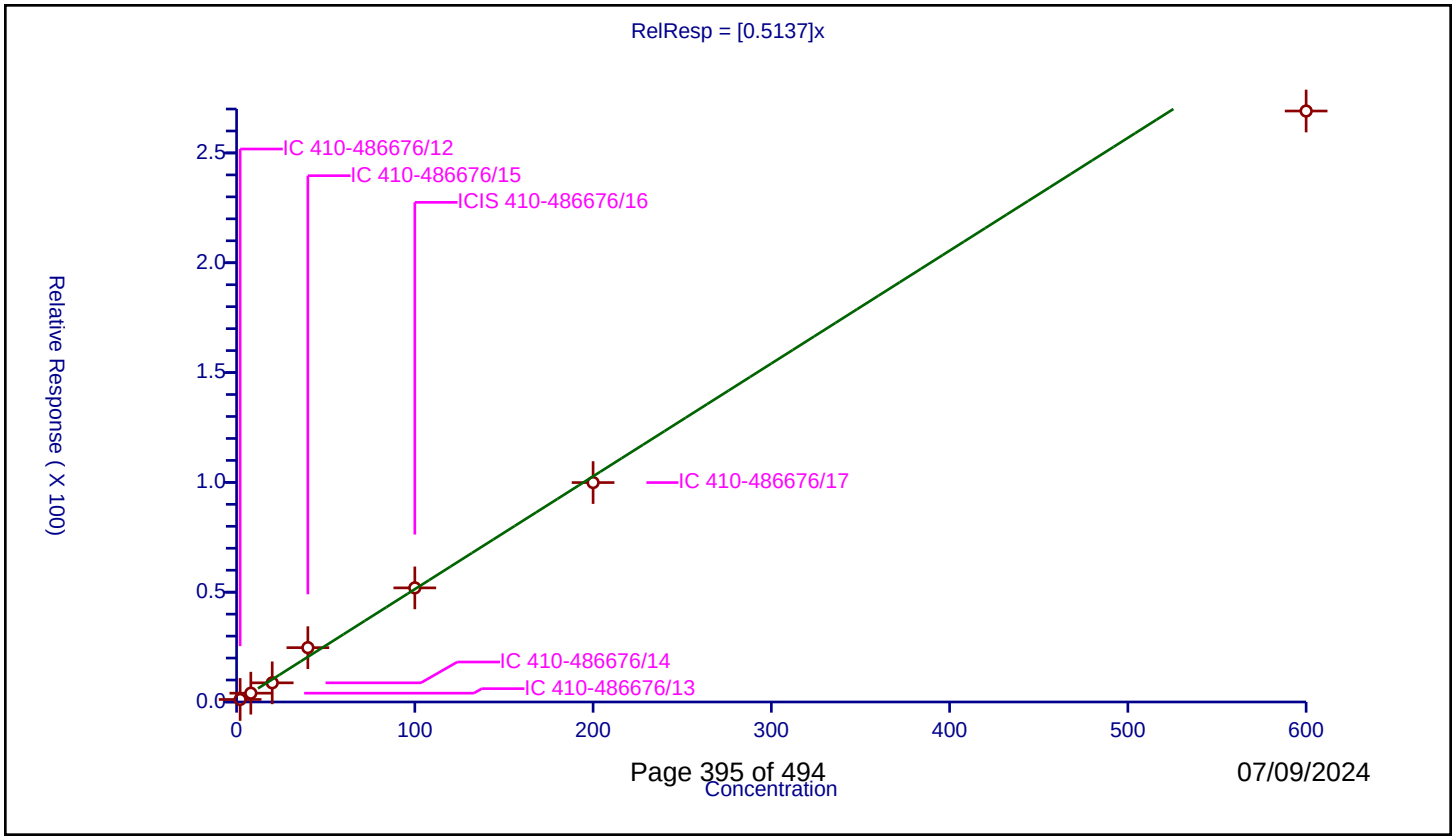
Curve Coefficients

Intercept:	0
Slope:	0.5137

Error Coefficients

Relative Standard Deviation:	12.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	2.0	1.143379	50.0	604218.0	0.571689	Y
2	IC 410-486676/13	8.0	4.015344	50.0	604419.0	0.501918	Y
3	IC 410-486676/14	20.0	8.728195	50.0	608505.0	0.43641	Y
4	IC 410-486676/15	40.0	24.744272	50.0	620875.0	0.618607	Y
5	ICIS 410-486676/16	100.0	51.957936	50.0	636078.0	0.519579	Y
6	IC 410-486676/17	200.0	99.907036	50.0	642721.0	0.499535	Y
7	IC 410-486676/18	600.0	269.089952	50.0	689271.0	0.448483	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

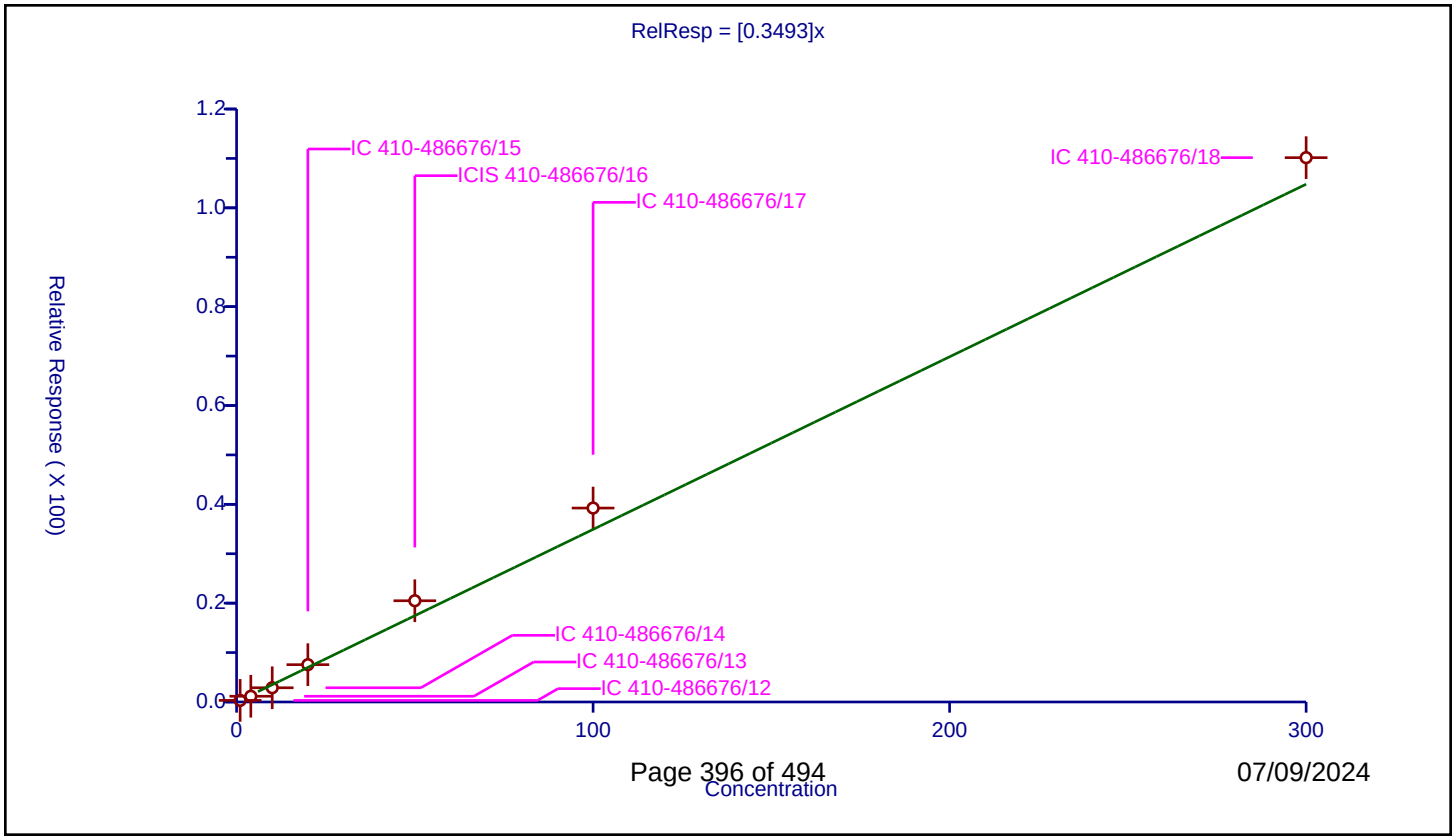
Curve Coefficients

Intercept:	0
Slope:	0.3493

Error Coefficients

Relative Standard Deviation:	14.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.319421	50.0	604218.0	0.319421	Y
2	IC 410-486676/13	4.0	1.161446	50.0	604419.0	0.290361	Y
3	IC 410-486676/14	10.0	2.881242	50.0	608505.0	0.288124	Y
4	IC 410-486676/15	20.0	7.552164	50.0	620875.0	0.377608	Y
5	ICIS 410-486676/16	50.0	20.488289	50.0	636078.0	0.409766	Y
6	IC 410-486676/17	100.0	39.246267	50.0	642721.0	0.392463	Y
7	IC 410-486676/18	300.0	110.158269	50.0	689271.0	0.367194	Y



07/09/2024

Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

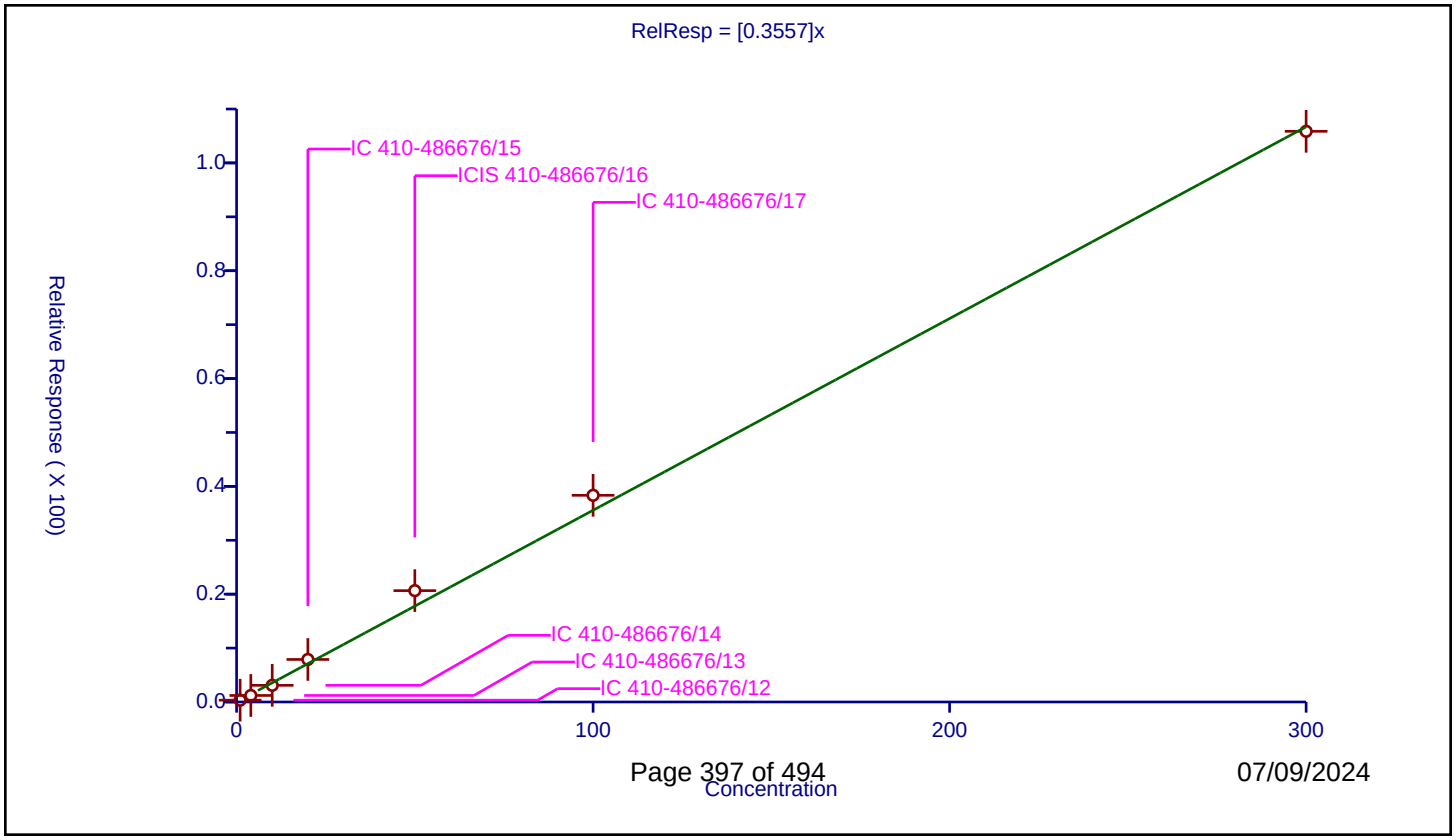
Curve Coefficients

Intercept:	0
Slope:	0.3557

Error Coefficients

Relative Standard Deviation:	12.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.334316	50.0	604218.0	0.334316	Y
2	IC 410-486676/13	4.0	1.210998	50.0	604419.0	0.302749	Y
3	IC 410-486676/14	10.0	3.087896	50.0	608505.0	0.30879	Y
4	IC 410-486676/15	20.0	7.88943	50.0	620875.0	0.394472	Y
5	ICIS 410-486676/16	50.0	20.654935	50.0	636078.0	0.413099	Y
6	IC 410-486676/17	100.0	38.337864	50.0	642721.0	0.383379	Y
7	IC 410-486676/18	300.0	105.864094	50.0	689271.0	0.35288	Y



Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

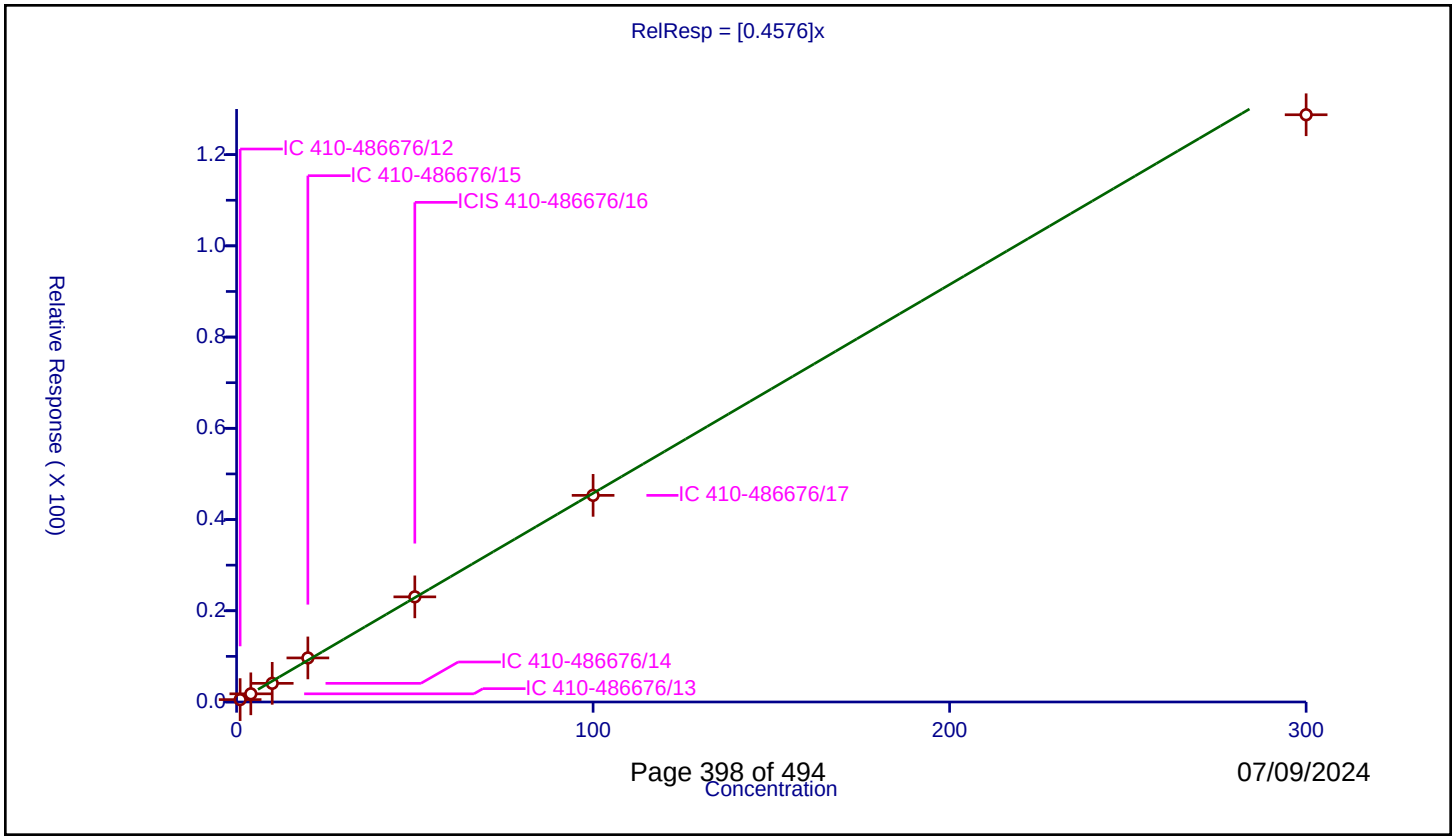
Curve Coefficients

Intercept:	0
Slope:	0.4576

Error Coefficients

Relative Standard Deviation:	7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.520342	50.0	604218.0	0.520342	Y
2	IC 410-486676/13	4.0	1.79048	50.0	604419.0	0.44762	Y
3	IC 410-486676/14	10.0	4.087805	50.0	608505.0	0.408781	Y
4	IC 410-486676/15	20.0	9.660238	50.0	620875.0	0.483012	Y
5	ICIS 410-486676/16	50.0	23.051575	50.0	636078.0	0.461032	Y
6	IC 410-486676/17	100.0	45.297571	50.0	642721.0	0.452976	Y
7	IC 410-486676/18	300.0	128.743049	50.0	689271.0	0.429143	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

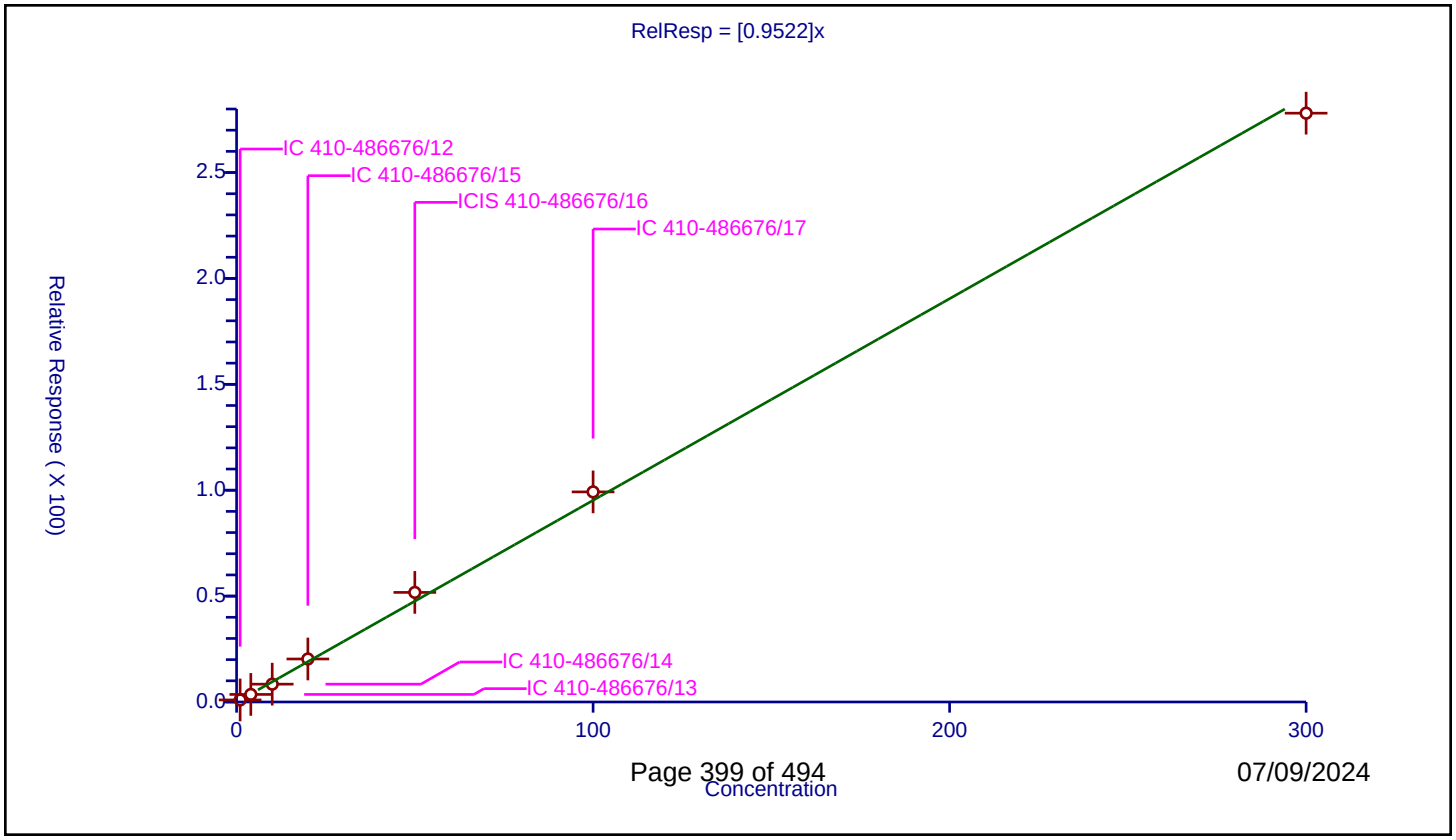
Curve Coefficients

Intercept:	0
Slope:	0.9522

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.96298	50.0	604218.0	0.96298	Y
2	IC 410-486676/13	4.0	3.569295	50.0	604419.0	0.892324	Y
3	IC 410-486676/14	10.0	8.412914	50.0	608505.0	0.841291	Y
4	IC 410-486676/15	20.0	20.302074	50.0	620875.0	1.015104	Y
5	ICIS 410-486676/16	50.0	51.746641	50.0	636078.0	1.034933	Y
6	IC 410-486676/17	100.0	99.205021	50.0	642721.0	0.99205	Y
7	IC 410-486676/18	300.0	278.032298	50.0	689271.0	0.926774	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

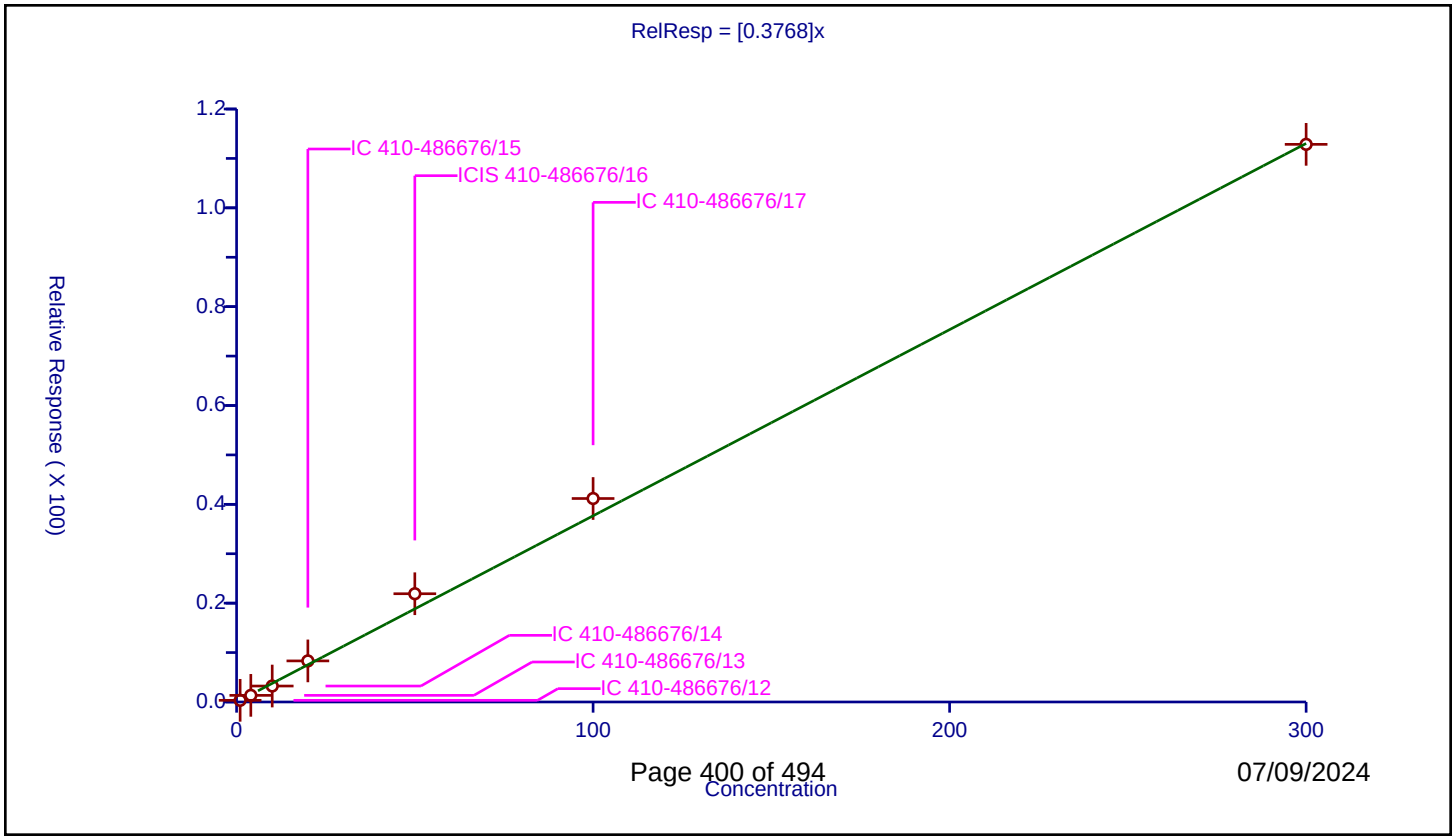
Curve Coefficients

Intercept:	0
Slope:	0.3768

Error Coefficients

Relative Standard Deviation:	12.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.336799	50.0	604218.0	0.336799	Y
2	IC 410-486676/13	4.0	1.343356	50.0	604419.0	0.335839	Y
3	IC 410-486676/14	10.0	3.231362	50.0	608505.0	0.323136	Y
4	IC 410-486676/15	20.0	8.311415	50.0	620875.0	0.415571	Y
5	ICIS 410-486676/16	50.0	21.908005	50.0	636078.0	0.43816	Y
6	IC 410-486676/17	100.0	41.175876	50.0	642721.0	0.411759	Y
7	IC 410-486676/18	300.0	112.847342	50.0	689271.0	0.376158	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

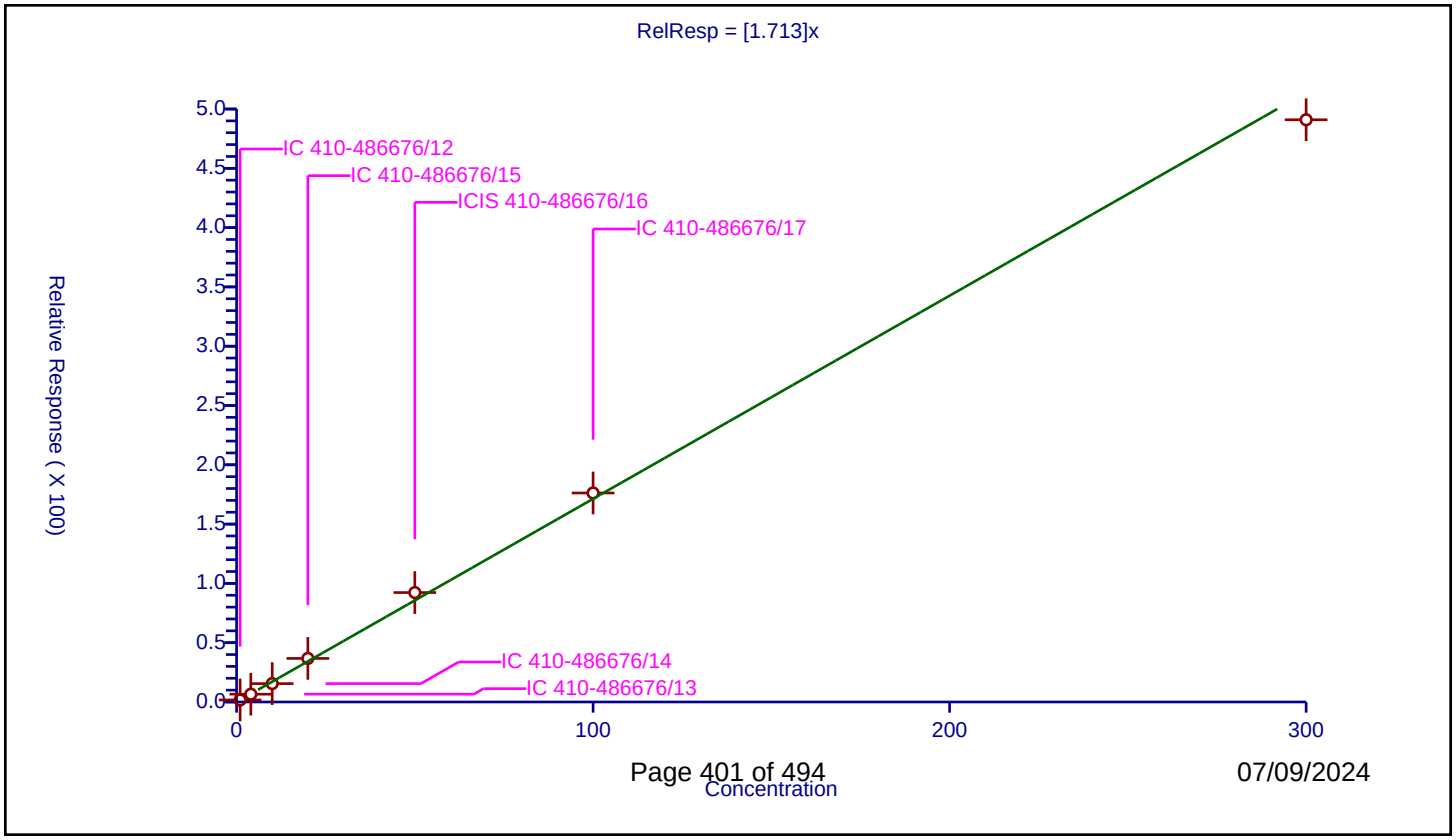
Curve Coefficients

Intercept:	0
Slope:	1.713

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	1.717095	50.0	604218.0	1.717095	Y
2	IC 410-486676/13	4.0	6.57524	50.0	604419.0	1.64381	Y
3	IC 410-486676/14	10.0	15.490341	50.0	608505.0	1.549034	Y
4	IC 410-486676/15	20.0	36.731468	50.0	620875.0	1.836573	Y
5	ICIS 410-486676/16	50.0	92.267222	50.0	636078.0	1.845344	Y
6	IC 410-486676/17	100.0	176.238446	50.0	642721.0	1.762384	Y
7	IC 410-486676/18	300.0	490.942967	50.0	689271.0	1.636477	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

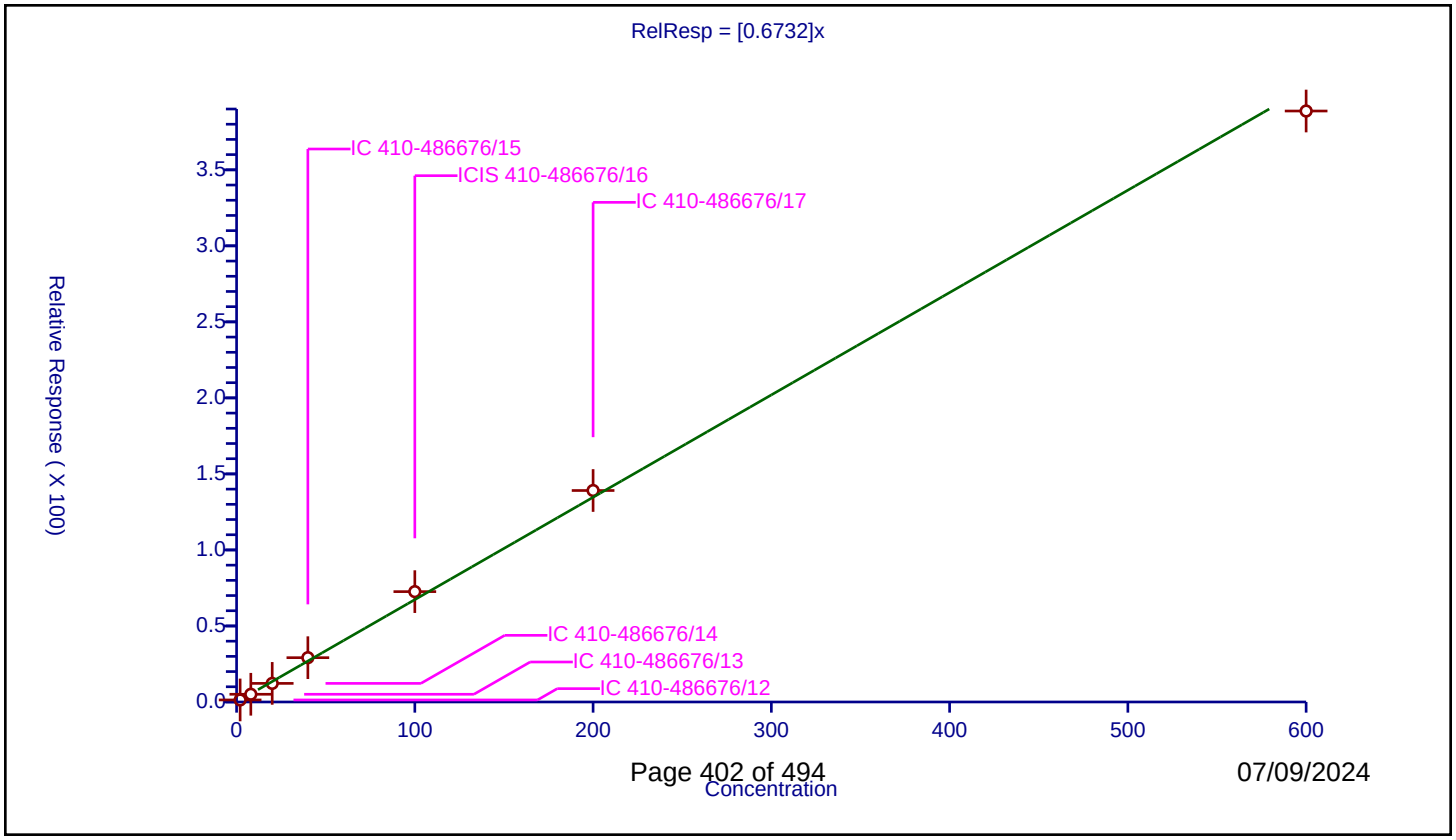
Curve Coefficients

Intercept:	0
Slope:	0.6732

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	2.0	1.336273	50.0	604218.0	0.668136	Y
2	IC 410-486676/13	8.0	5.081574	50.0	604419.0	0.635197	Y
3	IC 410-486676/14	20.0	12.226933	50.0	608505.0	0.611347	Y
4	IC 410-486676/15	40.0	29.147252	50.0	620875.0	0.728681	Y
5	ICIS 410-486676/16	100.0	72.581271	50.0	636078.0	0.725813	Y
6	IC 410-486676/17	200.0	139.094024	50.0	642721.0	0.69547	Y
7	IC 410-486676/18	600.0	388.691095	50.0	689271.0	0.647818	Y



Calibration / n-Butyl acrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

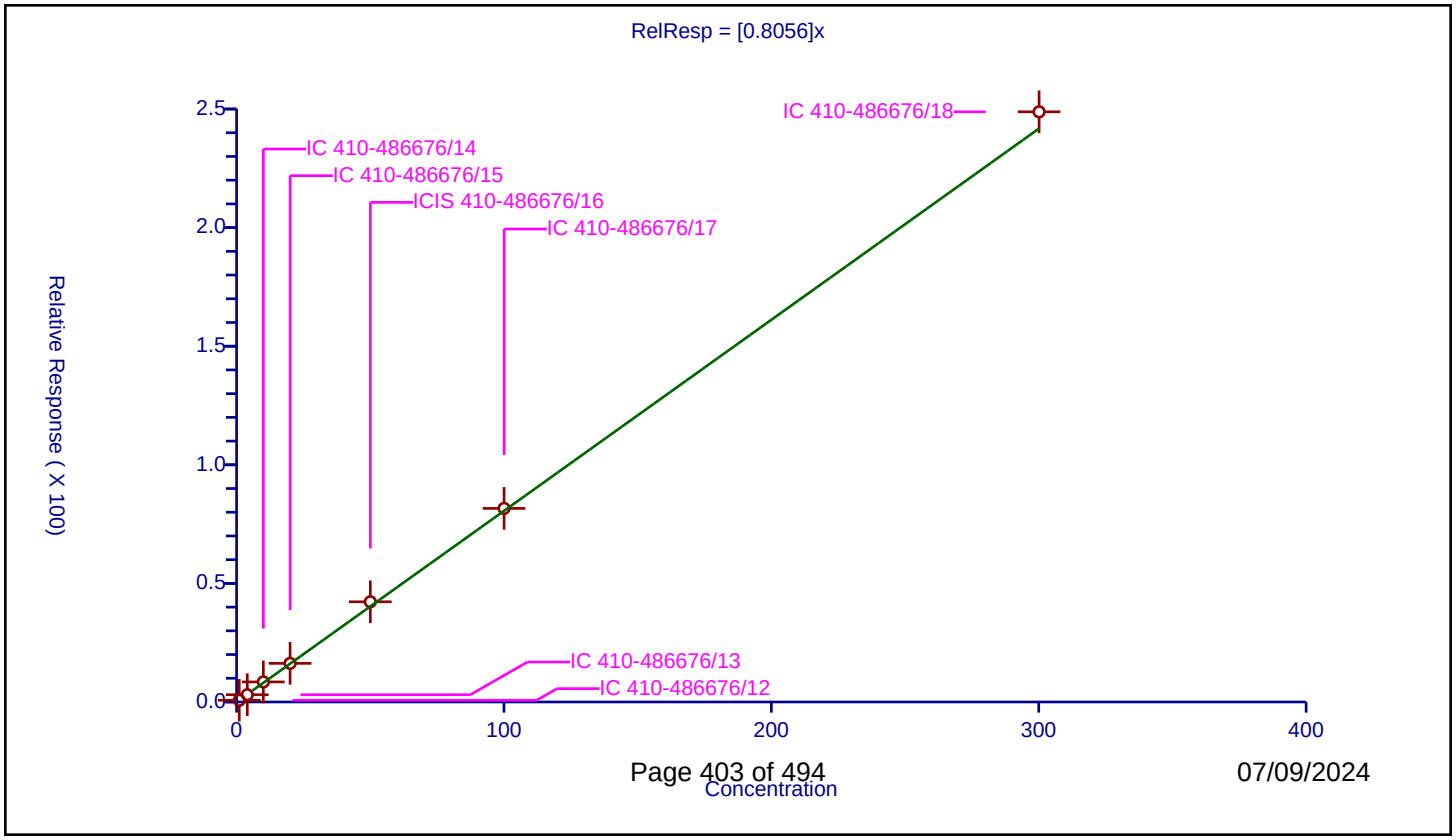
Curve Coefficients

Intercept:	0
Slope:	0.8056

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.000464	0.726228	50.0	604218.0	0.725891	Y
2	IC 410-486676/13	4.001854	3.061535	50.0	604419.0	0.765029	Y
3	IC 410-486676/14	10.004636	8.45975	50.0	608505.0	0.845583	Y
4	IC 410-486676/15	20.009272	16.282585	50.0	620875.0	0.813752	Y
5	ICIS 410-486676/16	50.02318	42.240731	50.0	636078.0	0.844423	Y
6	IC 410-486676/17	100.04636	81.613795	50.0	642721.0	0.81576	Y
7	IC 410-486676/18	300.13908	248.822597	50.0	689271.0	0.829024	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

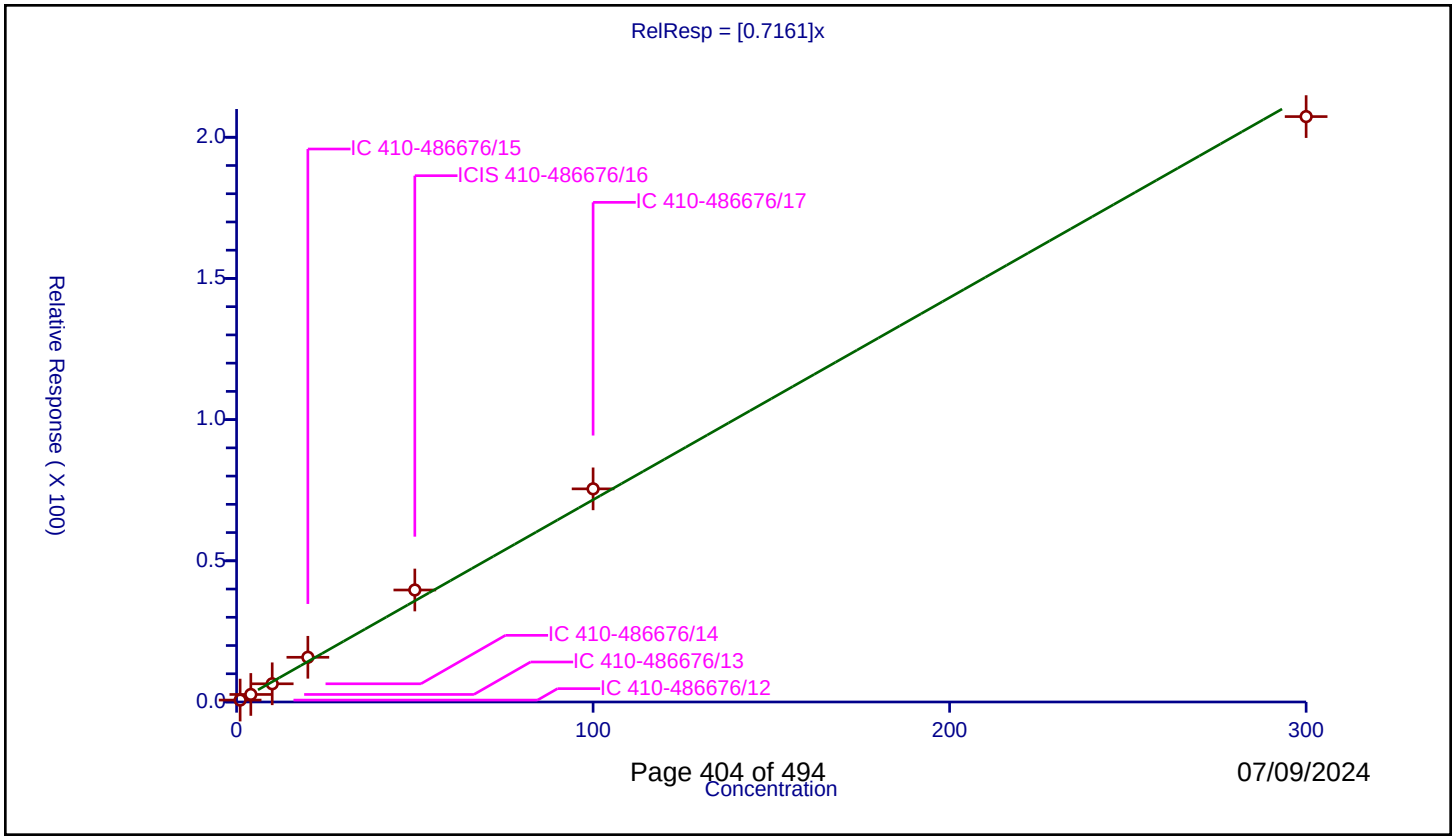
Curve Coefficients

Intercept:	0
Slope:	0.7161

Error Coefficients

Relative Standard Deviation:	8.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.671033	50.0	604218.0	0.671033	Y
2	IC 410-486676/13	4.0	2.666031	50.0	604419.0	0.666508	Y
3	IC 410-486676/14	10.0	6.444976	50.0	608505.0	0.644498	Y
4	IC 410-486676/15	20.0	15.834588	50.0	620875.0	0.791729	Y
5	ICIS 410-486676/16	50.0	39.656614	50.0	636078.0	0.793132	Y
6	IC 410-486676/17	100.0	75.480807	50.0	642721.0	0.754808	Y
7	IC 410-486676/18	300.0	207.317006	50.0	689271.0	0.691057	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

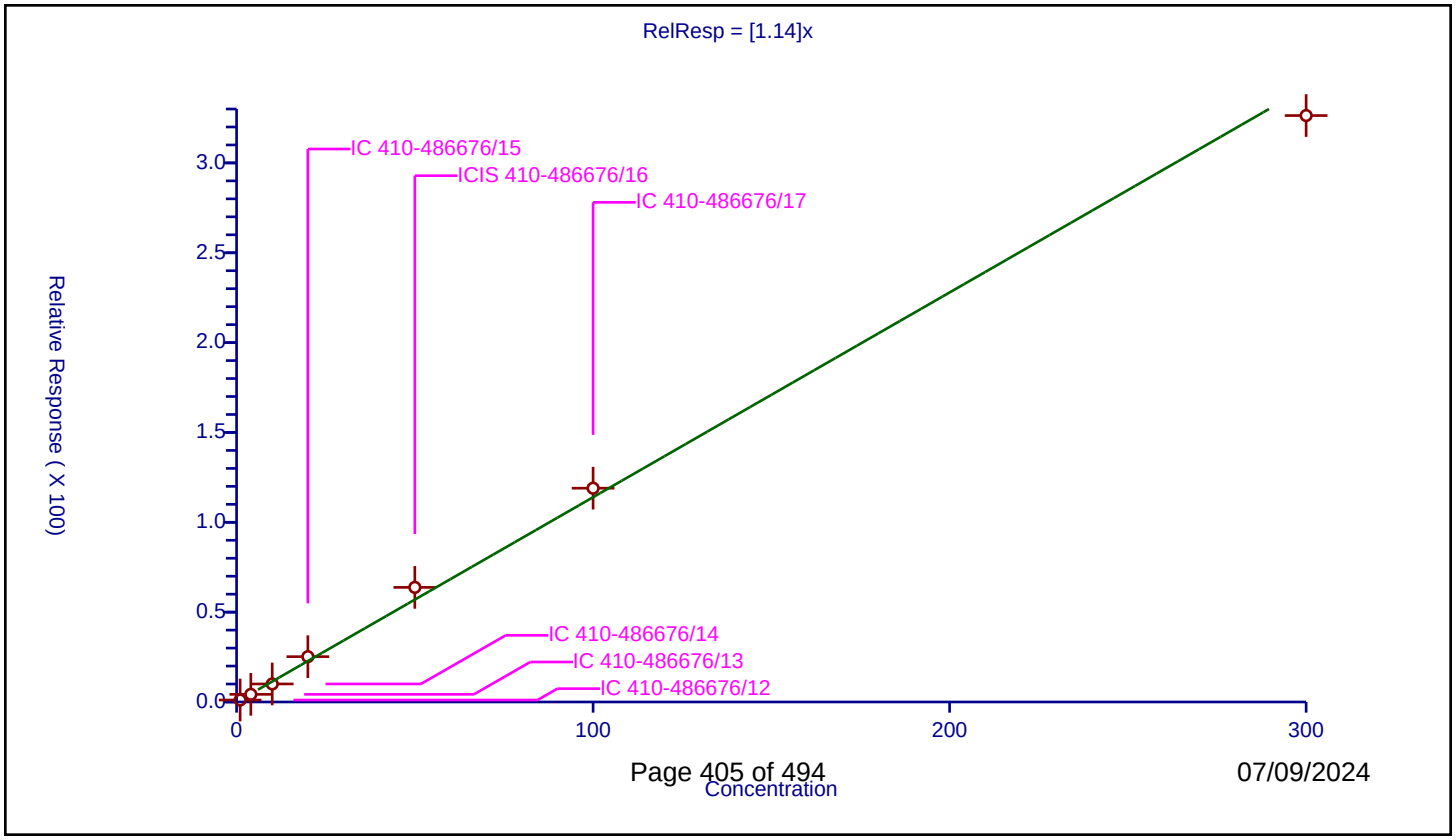
Curve Coefficients

Intercept:	0
Slope:	1.14

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	1.095466	50.0	604218.0	1.095466	Y
2	IC 410-486676/13	4.0	4.25574	50.0	604419.0	1.063935	Y
3	IC 410-486676/14	10.0	10.032374	50.0	608505.0	1.003237	Y
4	IC 410-486676/15	20.0	25.216106	50.0	620875.0	1.260805	Y
5	ICIS 410-486676/16	50.0	63.779835	50.0	636078.0	1.275597	Y
6	IC 410-486676/17	100.0	118.981564	50.0	642721.0	1.189816	Y
7	IC 410-486676/18	300.0	326.363506	50.0	689271.0	1.087878	Y



Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

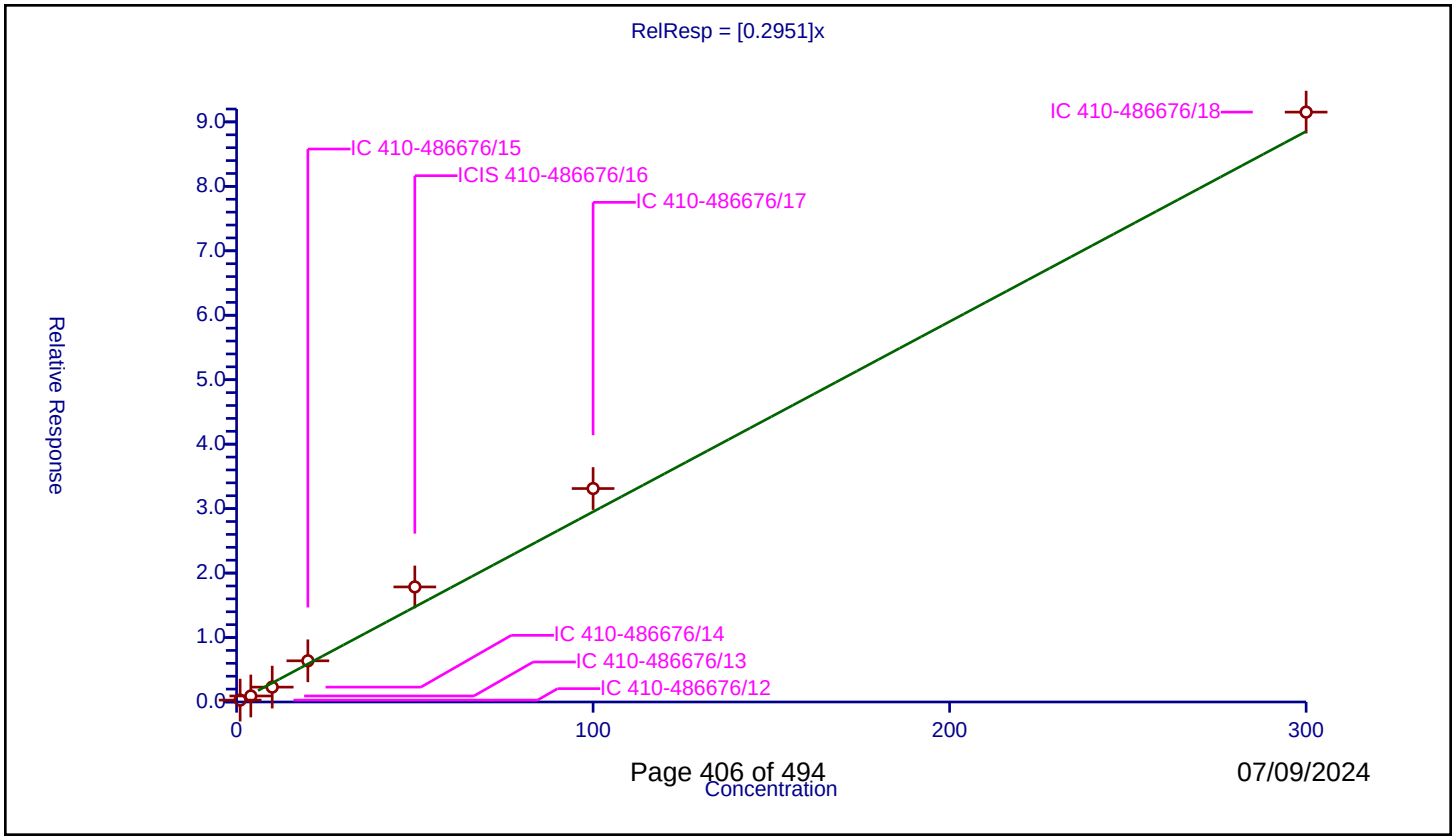
Curve Coefficients

Intercept:	0
Slope:	0.2951

Error Coefficients

Relative Standard Deviation:	16.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.289631	50.0	604218.0	0.289631	Y
2	IC 410-486676/13	4.0	0.93139	50.0	604419.0	0.232848	Y
3	IC 410-486676/14	10.0	2.304747	50.0	608505.0	0.230475	Y
4	IC 410-486676/15	20.0	6.388967	50.0	620875.0	0.319448	Y
5	ICIS 410-486676/16	50.0	17.848912	50.0	636078.0	0.356978	Y
6	IC 410-486676/17	100.0	33.118492	50.0	642721.0	0.331185	Y
7	IC 410-486676/18	300.0	91.521912	50.0	689271.0	0.305073	Y



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

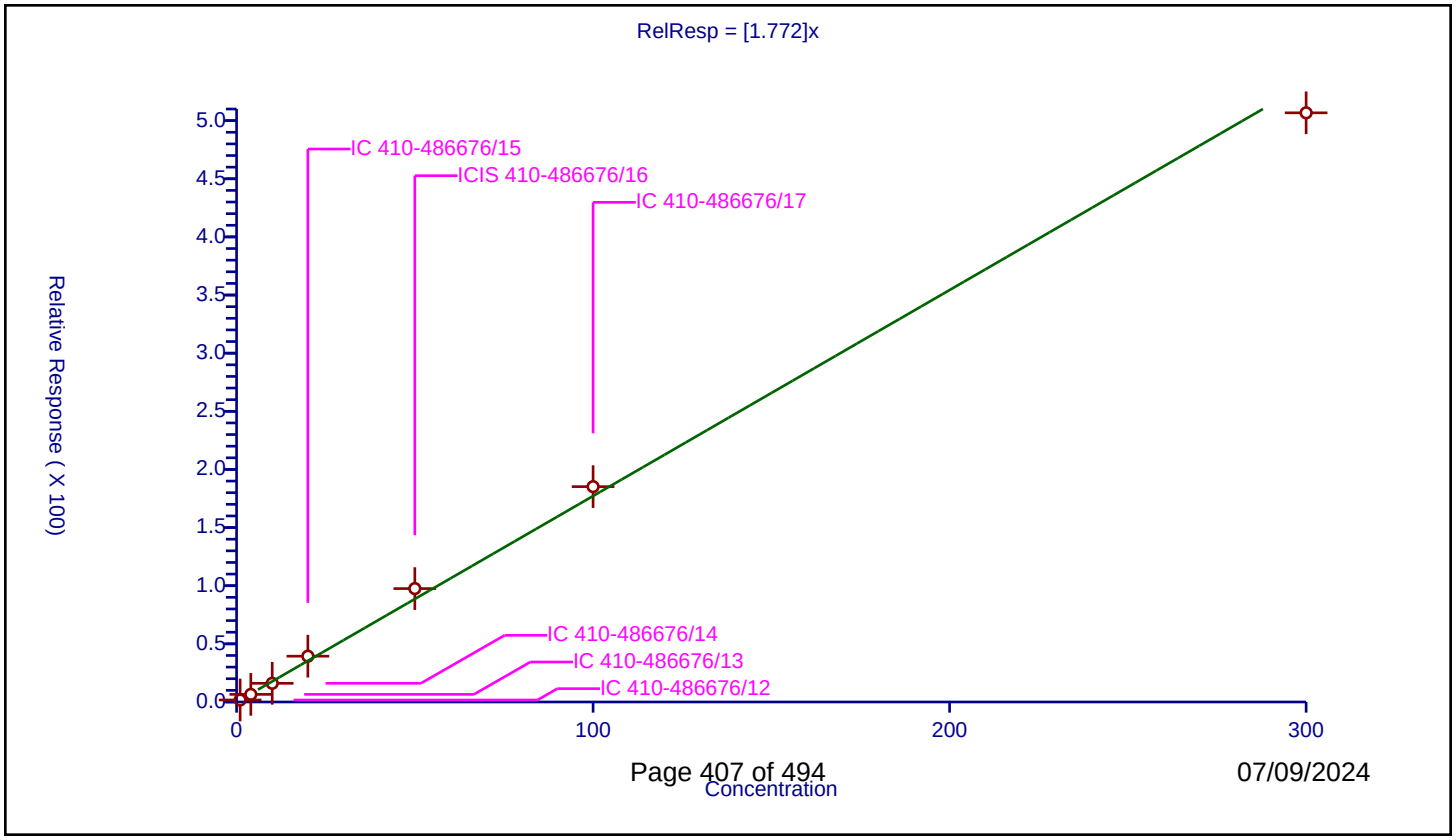
Curve Coefficients

Intercept:	0
Slope:	1.772

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	1.697732	50.0	604218.0	1.697732	Y
2	IC 410-486676/13	4.0	6.538759	50.0	604419.0	1.63469	Y
3	IC 410-486676/14	10.0	16.070123	50.0	608505.0	1.607012	Y
4	IC 410-486676/15	20.0	39.395531	50.0	620875.0	1.969777	Y
5	ICIS 410-486676/16	50.0	97.524675	50.0	636078.0	1.950493	Y
6	IC 410-486676/17	100.0	185.209212	50.0	642721.0	1.852092	Y
7	IC 410-486676/18	300.0	506.718112	50.0	689271.0	1.68906	Y



Calibration / Cyclohexanone

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

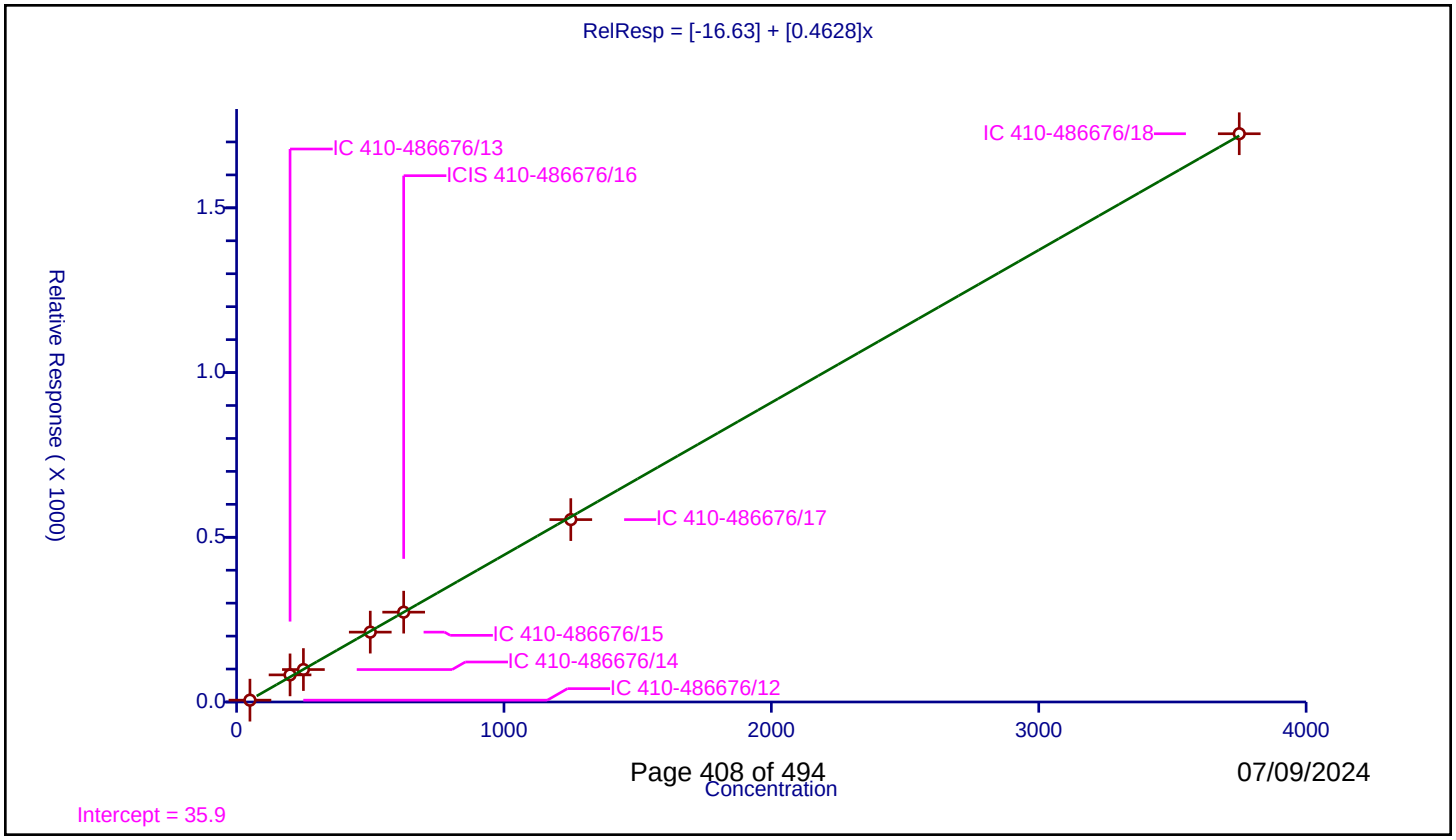
Curve Coefficients

Intercept:	-16.63
Slope:	0.4628

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	49.998492	5.562632	250.0	378418.0	0.111256	Y
2	IC 410-486676/13	199.993968	82.279233	250.0	365952.0	0.411409	Y
3	IC 410-486676/14	249.99246	98.481556	250.0	365901.0	0.393938	Y
4	IC 410-486676/15	499.98492	212.050474	250.0	391329.0	0.424114	Y
5	ICIS 410-486676/16	624.98115	272.642275	250.0	385838.0	0.436241	Y
6	IC 410-486676/17	1249.9623	553.668029	250.0	394299.0	0.442948	Y
7	IC 410-486676/18	3749.8869	1724.965126	250.0	415071.0	0.460005	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

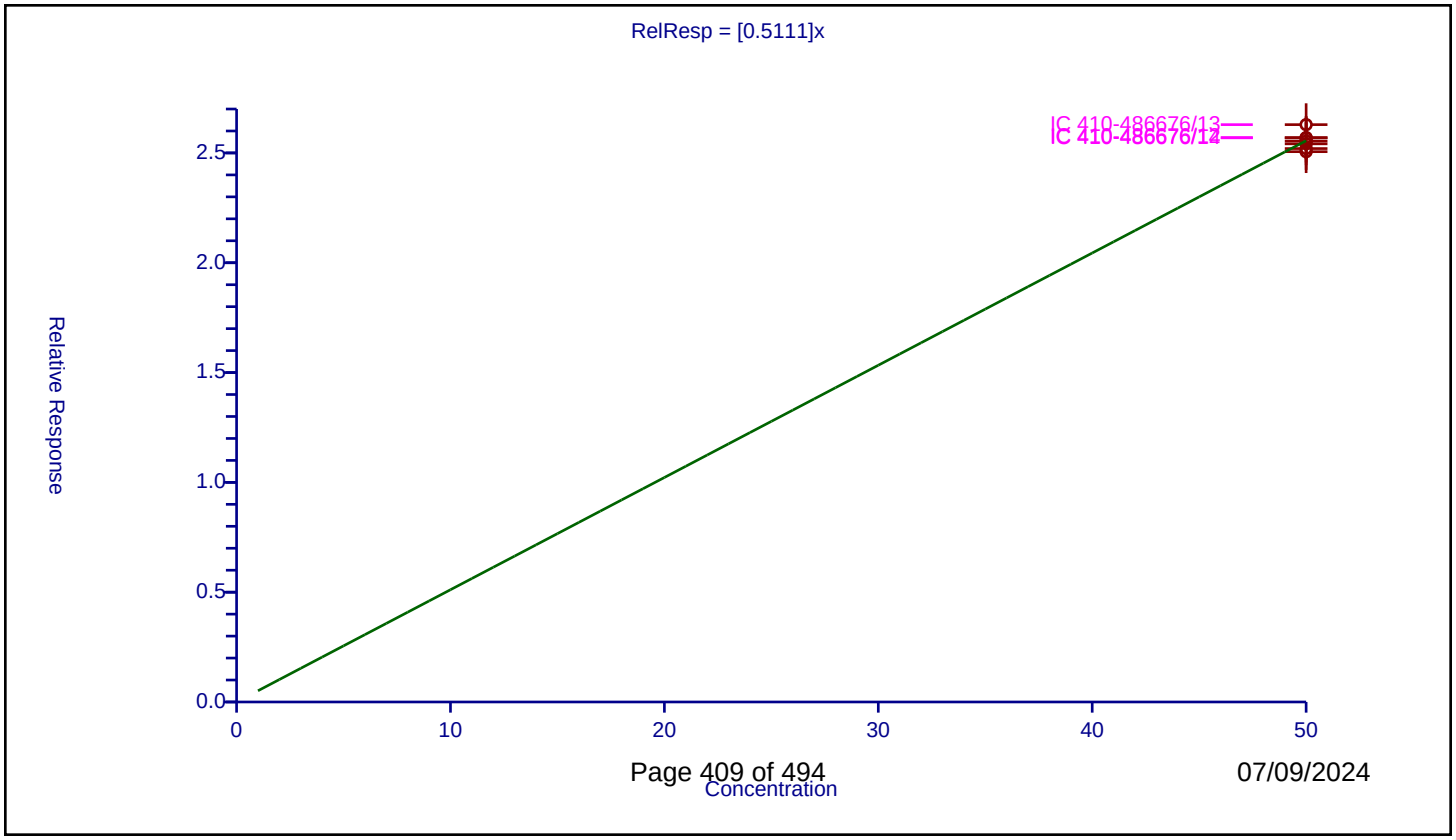
Curve Coefficients

Intercept:	0
Slope:	0.5111

Error Coefficients

Relative Standard Deviation:	1.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	50.0	25.696768	50.0	604218.0	0.513935	Y
2	IC 410-486676/13	50.0	26.288551	50.0	604419.0	0.525771	Y
3	IC 410-486676/14	50.0	25.687135	50.0	608505.0	0.513743	Y
4	IC 410-486676/15	50.0	25.413892	50.0	620875.0	0.508278	Y
5	ICIS 410-486676/16	50.0	25.539321	50.0	636078.0	0.510786	Y
6	IC 410-486676/17	50.0	25.056751	50.0	642721.0	0.501135	Y
7	IC 410-486676/18	50.0	25.199813	50.0	689271.0	0.503996	Y



Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

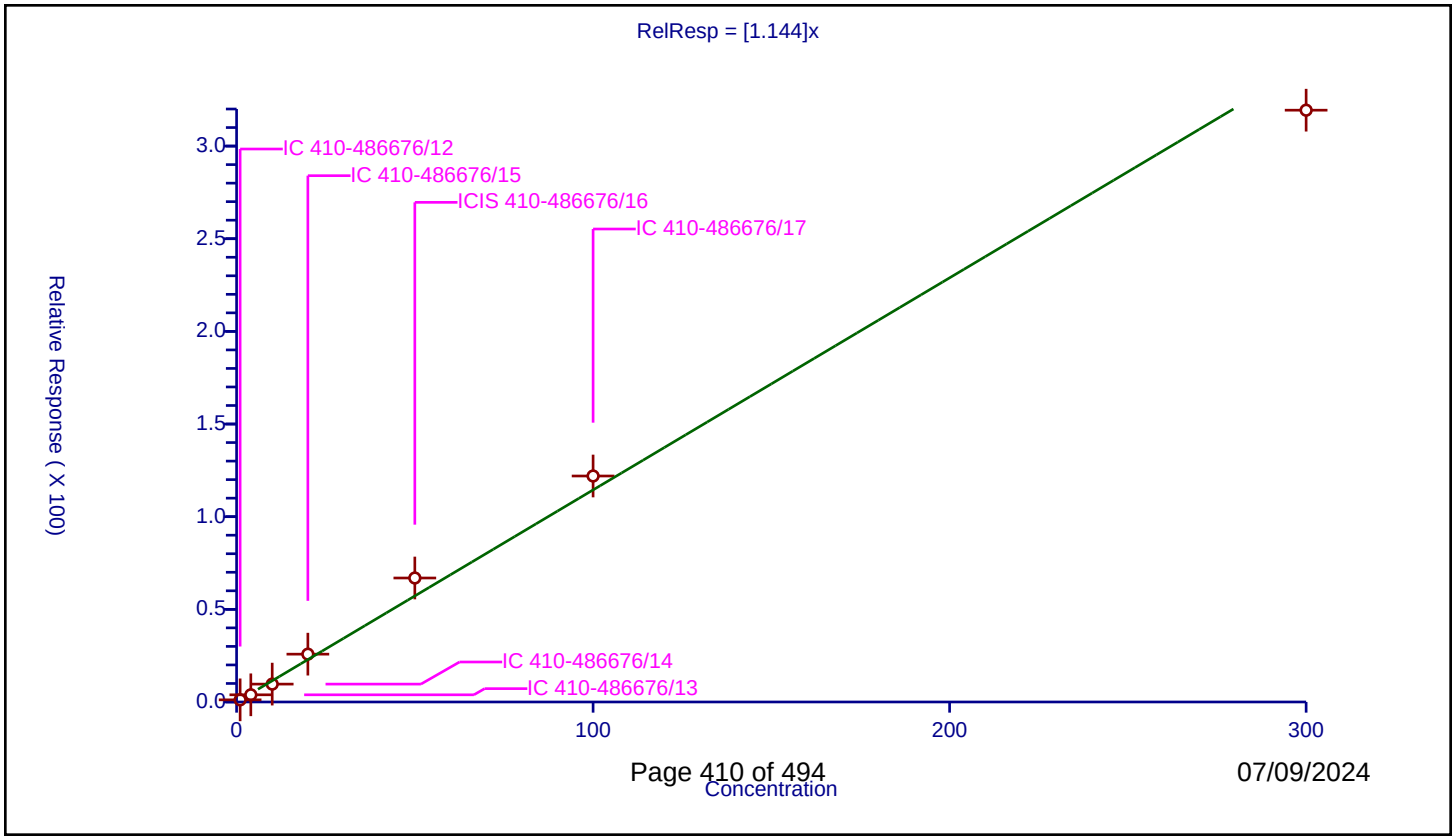
Curve Coefficients

Intercept:	0
Slope:	1.144

Error Coefficients

Relative Standard Deviation:	13.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	1.165068	50.0	380321.0	1.165068	Y
2	IC 410-486676/13	4.0	3.87626	50.0	382237.0	0.969065	Y
3	IC 410-486676/14	10.0	9.641874	50.0	373304.0	0.964187	Y
4	IC 410-486676/15	20.0	25.813002	50.0	379458.0	1.29065	Y
5	ICIS 410-486676/16	50.0	66.903627	50.0	382835.0	1.338073	Y
6	IC 410-486676/17	100.0	121.94751	50.0	379428.0	1.219475	Y
7	IC 410-486676/18	300.0	319.372891	50.0	405719.0	1.064576	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

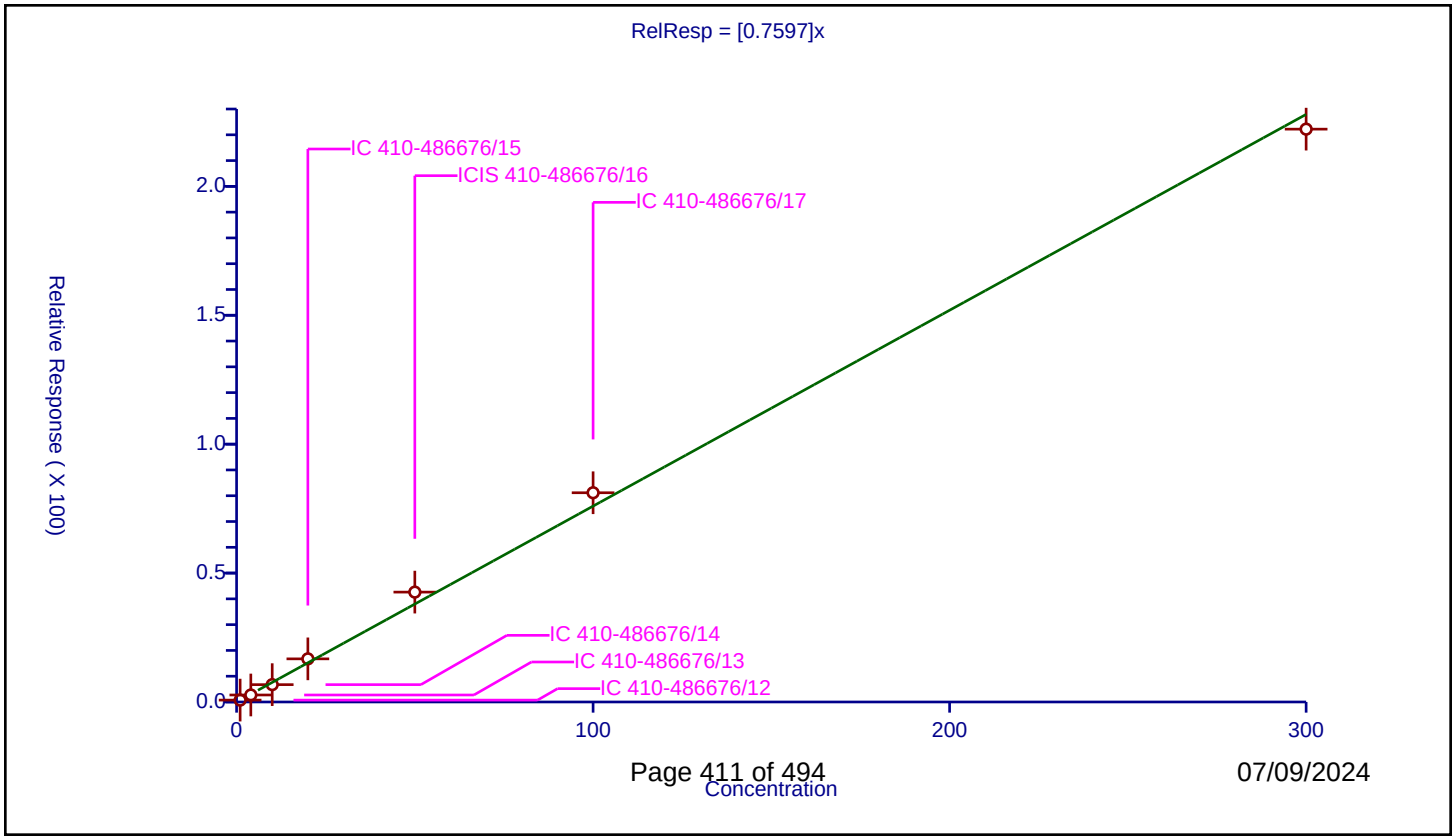
Curve Coefficients

Intercept:	0
Slope:	0.7597

Error Coefficients

Relative Standard Deviation:	9.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.725045	50.0	380321.0	0.725045	Y
2	IC 410-486676/13	4.0	2.715854	50.0	382237.0	0.678964	Y
3	IC 410-486676/14	10.0	6.730172	50.0	373304.0	0.673017	Y
4	IC 410-486676/15	20.0	16.732682	50.0	379458.0	0.836634	Y
5	ICIS 410-486676/16	50.0	42.61601	50.0	382835.0	0.85232	Y
6	IC 410-486676/17	100.0	81.154791	50.0	379428.0	0.811548	Y
7	IC 410-486676/18	300.0	222.192577	50.0	405719.0	0.740642	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

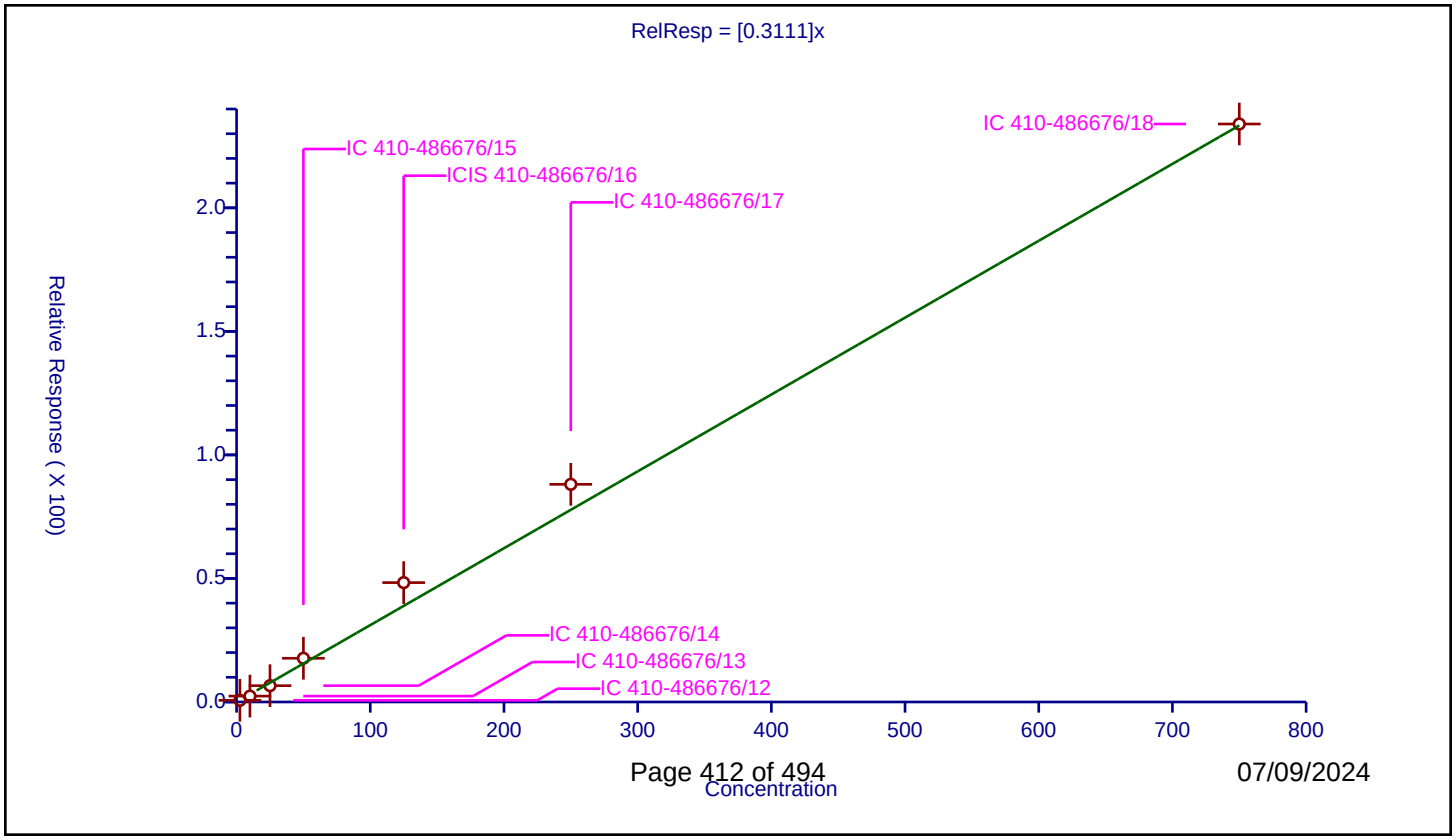
Curve Coefficients

Intercept:	0
Slope:	0.3111

Error Coefficients

Relative Standard Deviation:	17.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	2.5	0.678243	50.0	380321.0	0.271297	Y
2	IC 410-486676/13	10.0	2.377582	50.0	382237.0	0.237758	Y
3	IC 410-486676/14	25.0	6.598108	50.0	373304.0	0.263924	Y
4	IC 410-486676/15	50.0	17.698533	50.0	379458.0	0.353971	Y
5	ICIS 410-486676/16	125.0	48.310238	50.0	382835.0	0.386482	Y
6	IC 410-486676/17	250.0	88.099719	50.0	379428.0	0.352399	Y
7	IC 410-486676/18	750.0	233.935926	50.0	405719.0	0.311915	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

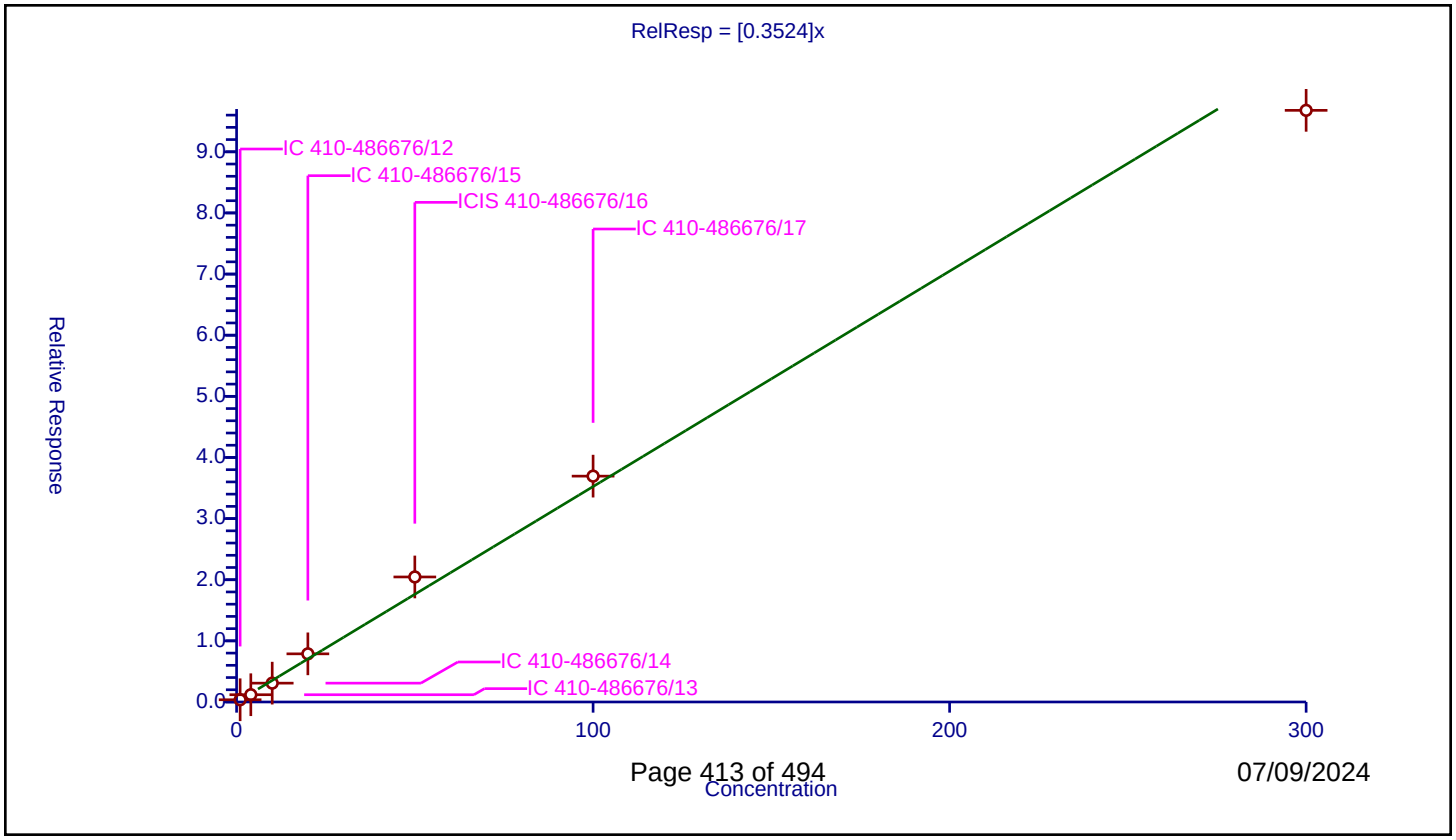
Curve Coefficients

Intercept:	0
Slope:	0.3524

Error Coefficients

Relative Standard Deviation:	12.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.36627	50.0	380321.0	0.36627	Y
2	IC 410-486676/13	4.0	1.190361	50.0	382237.0	0.29759	Y
3	IC 410-486676/14	10.0	3.081001	50.0	373304.0	0.3081	Y
4	IC 410-486676/15	20.0	7.873994	50.0	379458.0	0.3937	Y
5	ICIS 410-486676/16	50.0	20.451631	50.0	382835.0	0.409033	Y
6	IC 410-486676/17	100.0	36.946667	50.0	379428.0	0.369467	Y
7	IC 410-486676/18	300.0	96.779791	50.0	405719.0	0.322599	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

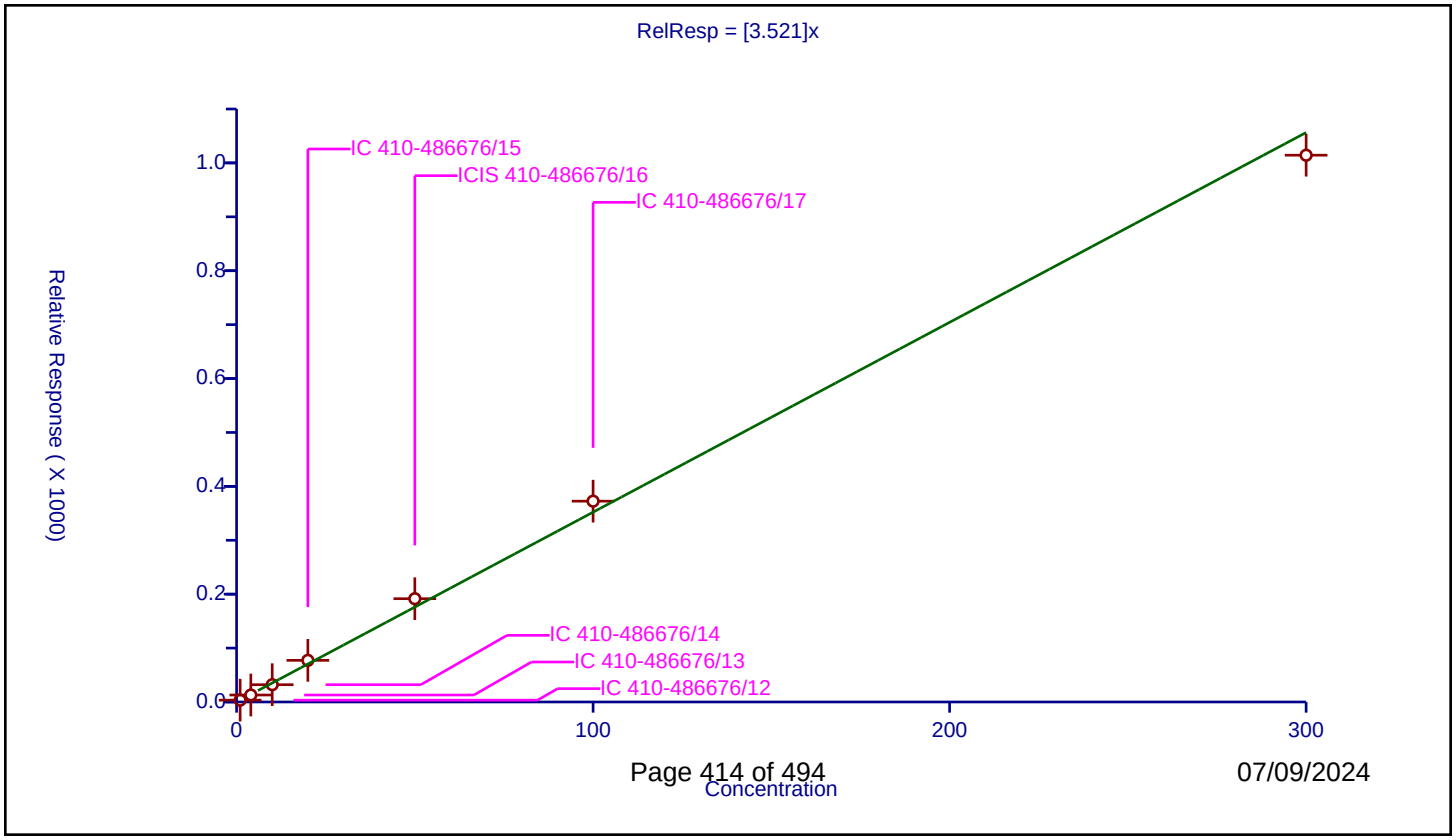
Curve Coefficients

Intercept:	0
Slope:	3.521

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	3.406859	50.0	380321.0	3.406859	Y
2	IC 410-486676/13	4.0	12.929544	50.0	382237.0	3.232386	Y
3	IC 410-486676/14	10.0	32.072386	50.0	373304.0	3.207239	Y
4	IC 410-486676/15	20.0	77.262174	50.0	379458.0	3.863109	Y
5	ICIS 410-486676/16	50.0	191.638173	50.0	382835.0	3.832763	Y
6	IC 410-486676/17	100.0	372.525881	50.0	379428.0	3.725259	Y
7	IC 410-486676/18	300.0	1014.326665	50.0	405719.0	3.381089	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

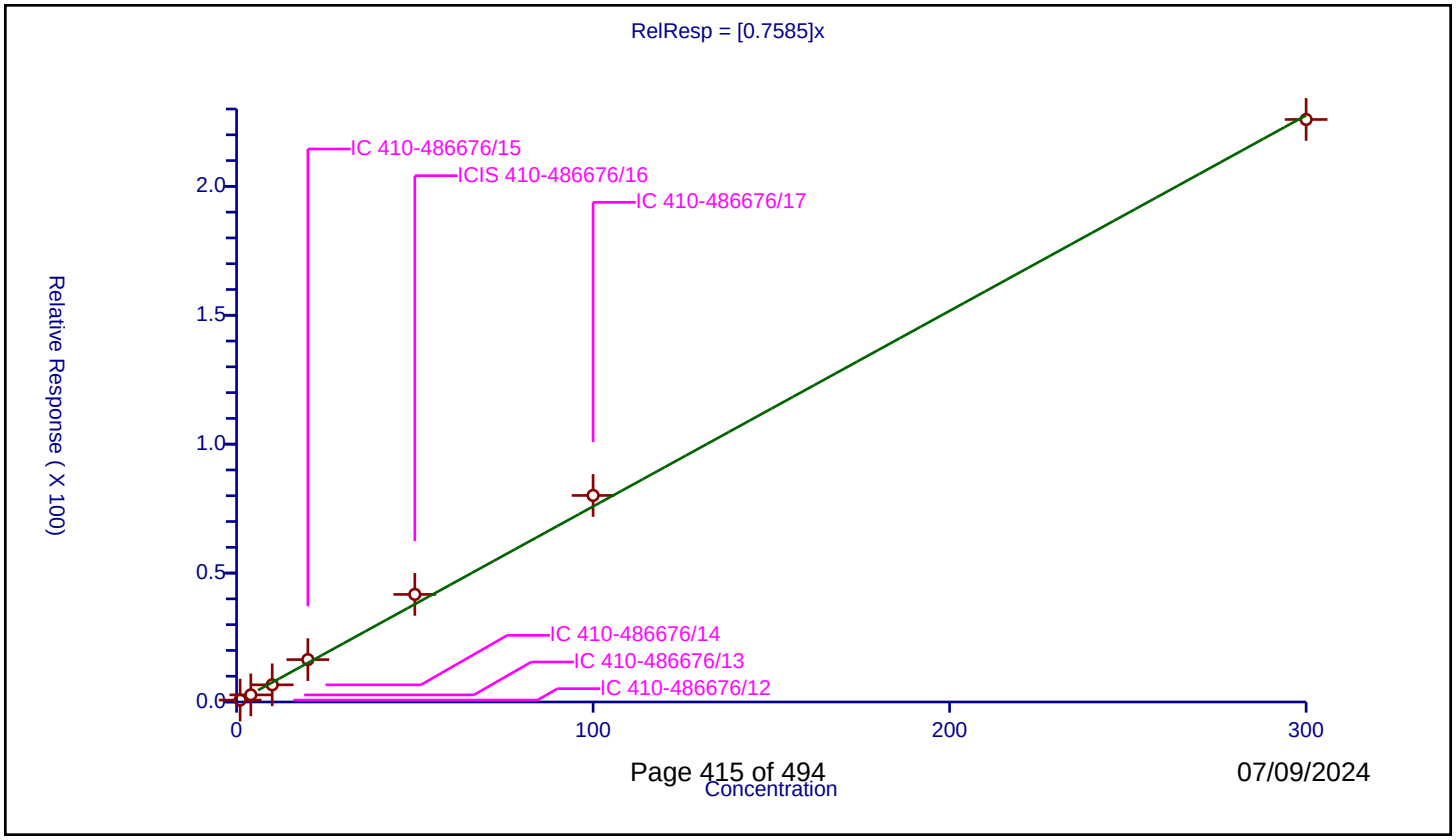
Curve Coefficients

Intercept:	0
Slope:	0.7585

Error Coefficients

Relative Standard Deviation:	8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.743582	50.0	380321.0	0.743582	Y
2	IC 410-486676/13	4.0	2.754181	50.0	382237.0	0.688545	Y
3	IC 410-486676/14	10.0	6.659854	50.0	373304.0	0.665985	Y
4	IC 410-486676/15	20.0	16.444376	50.0	379458.0	0.822219	Y
5	ICIS 410-486676/16	50.0	41.7326	50.0	382835.0	0.834652	Y
6	IC 410-486676/17	100.0	80.110983	50.0	379428.0	0.80111	Y
7	IC 410-486676/18	300.0	225.943325	50.0	405719.0	0.753144	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

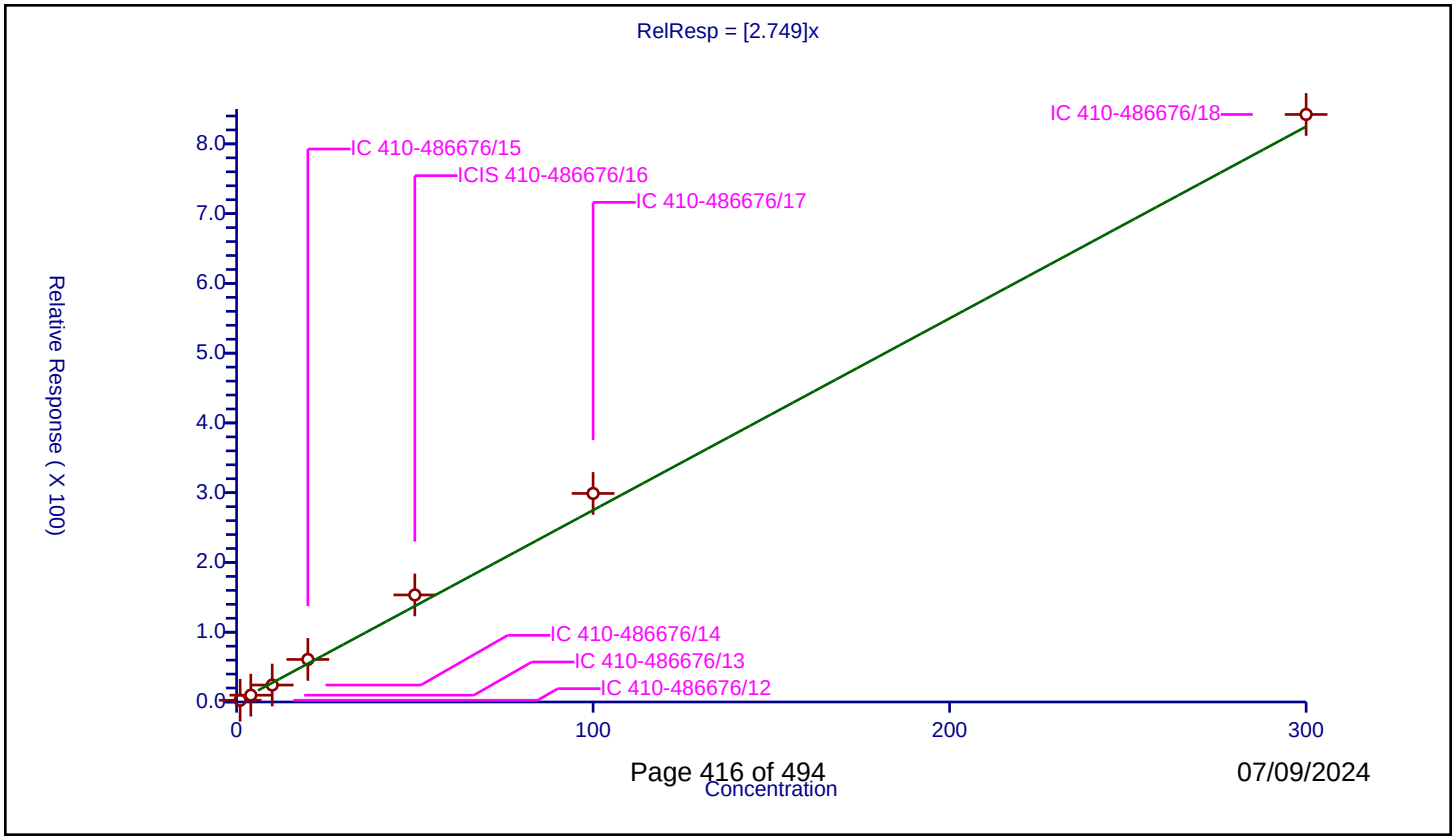
Curve Coefficients

Intercept:	0
Slope:	2.749

Error Coefficients

Relative Standard Deviation:	10.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	2.458975	50.0	380321.0	2.458975	Y
2	IC 410-486676/13	4.0	9.772863	50.0	382237.0	2.443216	Y
3	IC 410-486676/14	10.0	24.284363	50.0	373304.0	2.428436	Y
4	IC 410-486676/15	20.0	60.991335	50.0	379458.0	3.049567	Y
5	ICIS 410-486676/16	50.0	153.450965	50.0	382835.0	3.069019	Y
6	IC 410-486676/17	100.0	298.950657	50.0	379428.0	2.989507	Y
7	IC 410-486676/18	300.0	842.210002	50.0	405719.0	2.807367	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

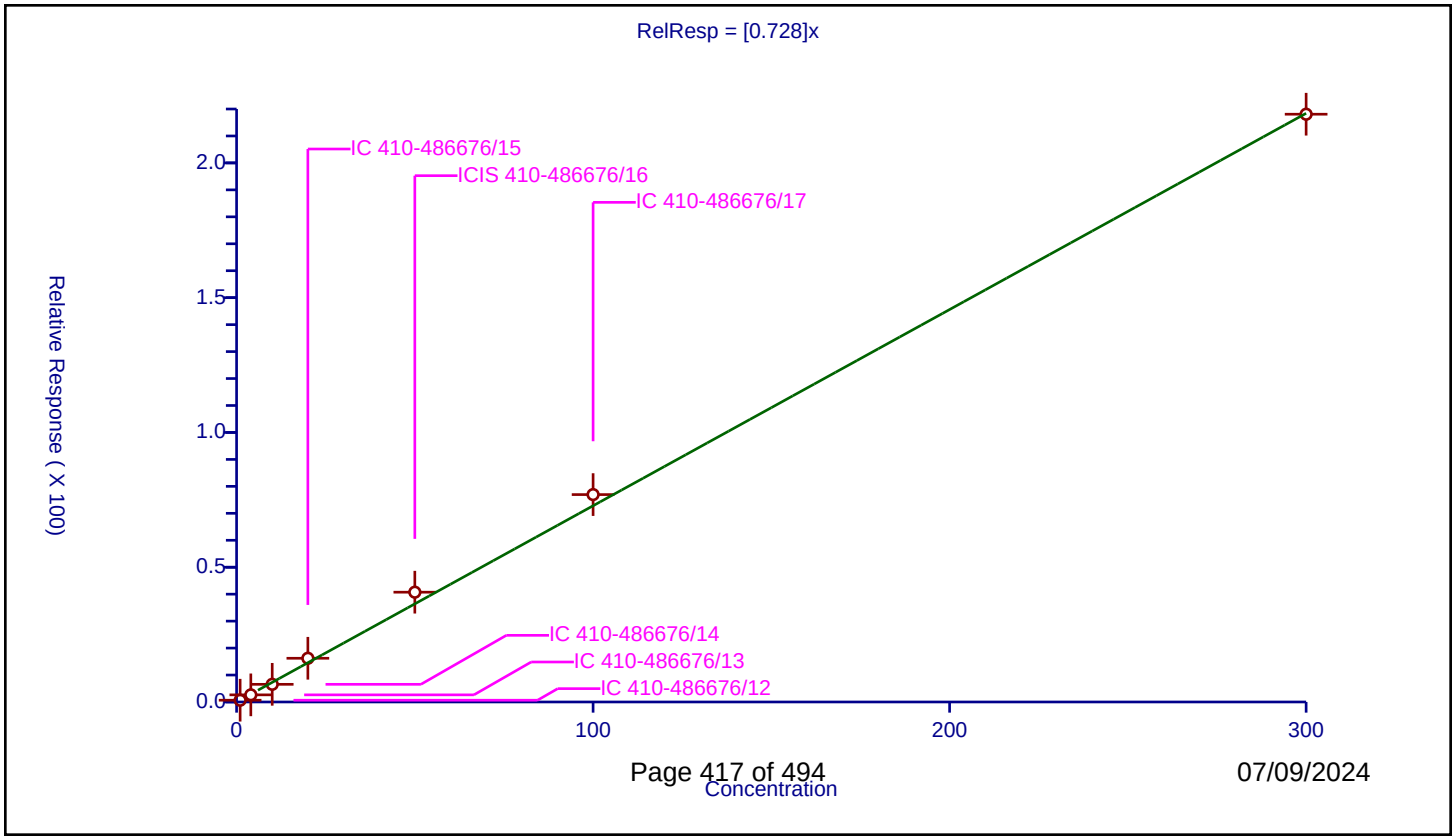
Curve Coefficients

Intercept:	0
Slope:	0.728

Error Coefficients

Relative Standard Deviation:	9.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.658654	50.0	380321.0	0.658654	Y
2	IC 410-486676/13	4.0	2.641816	50.0	382237.0	0.660454	Y
3	IC 410-486676/14	10.0	6.549756	50.0	373304.0	0.654976	Y
4	IC 410-486676/15	20.0	16.218	50.0	379458.0	0.8109	Y
5	ICIS 410-486676/16	50.0	40.737263	50.0	382835.0	0.814745	Y
6	IC 410-486676/17	100.0	76.949513	50.0	379428.0	0.769495	Y
7	IC 410-486676/18	300.0	218.068417	50.0	405719.0	0.726895	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

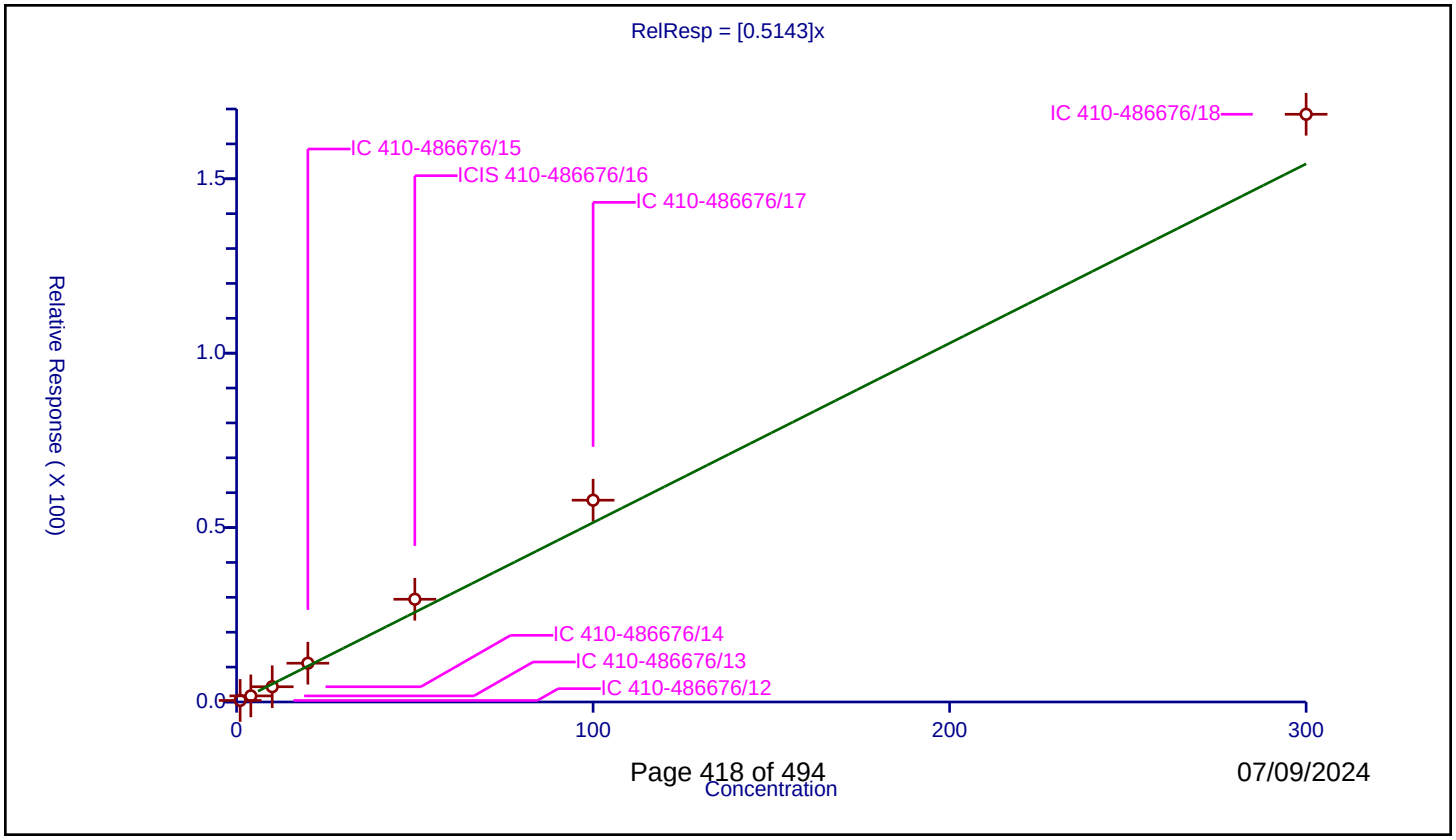
Curve Coefficients

Intercept:	0
Slope:	0.5143

Error Coefficients

Relative Standard Deviation:	14.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.440155	50.0	380321.0	0.440155	Y
2	IC 410-486676/13	4.0	1.749438	50.0	382237.0	0.43736	Y
3	IC 410-486676/14	10.0	4.370567	50.0	373304.0	0.437057	Y
4	IC 410-486676/15	20.0	11.121257	50.0	379458.0	0.556063	Y
5	ICIS 410-486676/16	50.0	29.453942	50.0	382835.0	0.589079	Y
6	IC 410-486676/17	100.0	57.855245	50.0	379428.0	0.578552	Y
7	IC 410-486676/18	300.0	168.497162	50.0	405719.0	0.561657	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

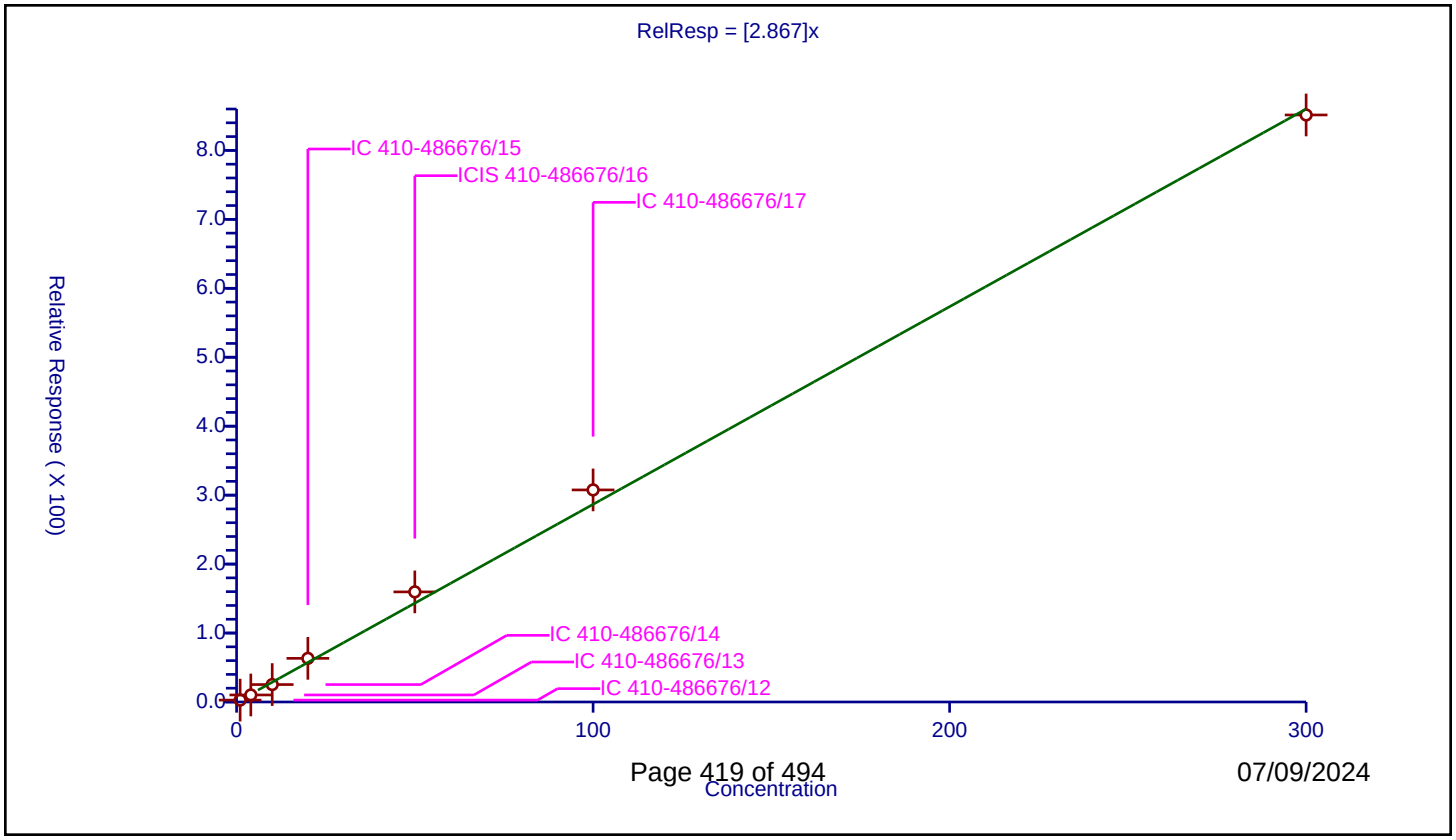
Curve Coefficients

Intercept:	0
Slope:	2.867

Error Coefficients

Relative Standard Deviation:	9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	2.725461	50.0	380321.0	2.725461	Y
2	IC 410-486676/13	4.0	10.171831	50.0	382237.0	2.542958	Y
3	IC 410-486676/14	10.0	25.269485	50.0	373304.0	2.526949	Y
4	IC 410-486676/15	20.0	63.276305	50.0	379458.0	3.163815	Y
5	ICIS 410-486676/16	50.0	159.686027	50.0	382835.0	3.193721	Y
6	IC 410-486676/17	100.0	307.566917	50.0	379428.0	3.075669	Y
7	IC 410-486676/18	300.0	851.392836	50.0	405719.0	2.837976	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

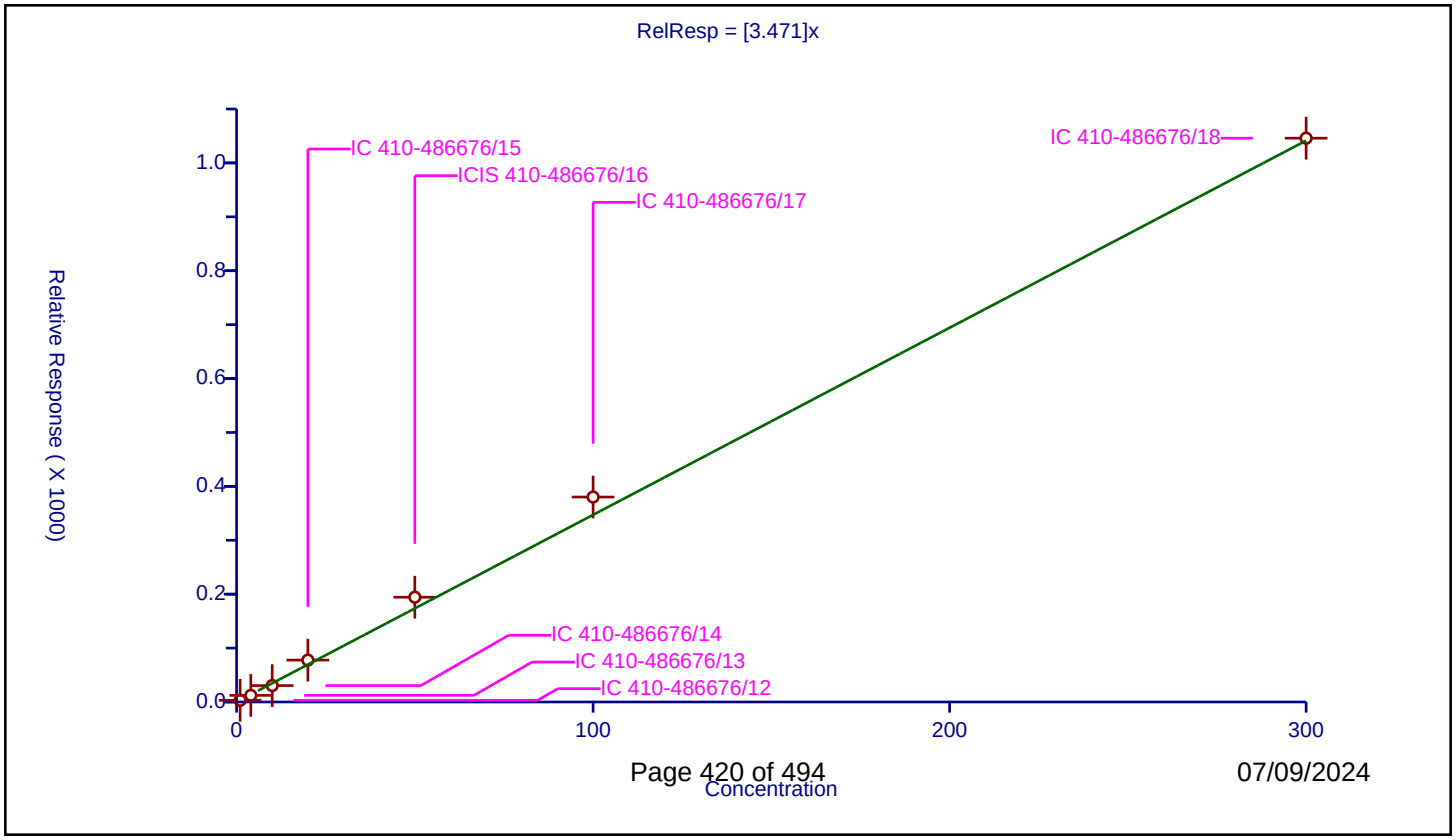
Curve Coefficients

Intercept:	0
Slope:	3.471

Error Coefficients

Relative Standard Deviation:	11.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	3.114606	50.0	380321.0	3.114606	Y
2	IC 410-486676/13	4.0	12.305716	50.0	382237.0	3.076429	Y
3	IC 410-486676/14	10.0	30.461902	50.0	373304.0	3.04619	Y
4	IC 410-486676/15	20.0	77.708732	50.0	379458.0	3.885437	Y
5	ICIS 410-486676/16	50.0	194.373033	50.0	382835.0	3.887461	Y
6	IC 410-486676/17	100.0	380.200196	50.0	379428.0	3.802002	Y
7	IC 410-486676/18	300.0	1045.903199	50.0	405719.0	3.486344	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

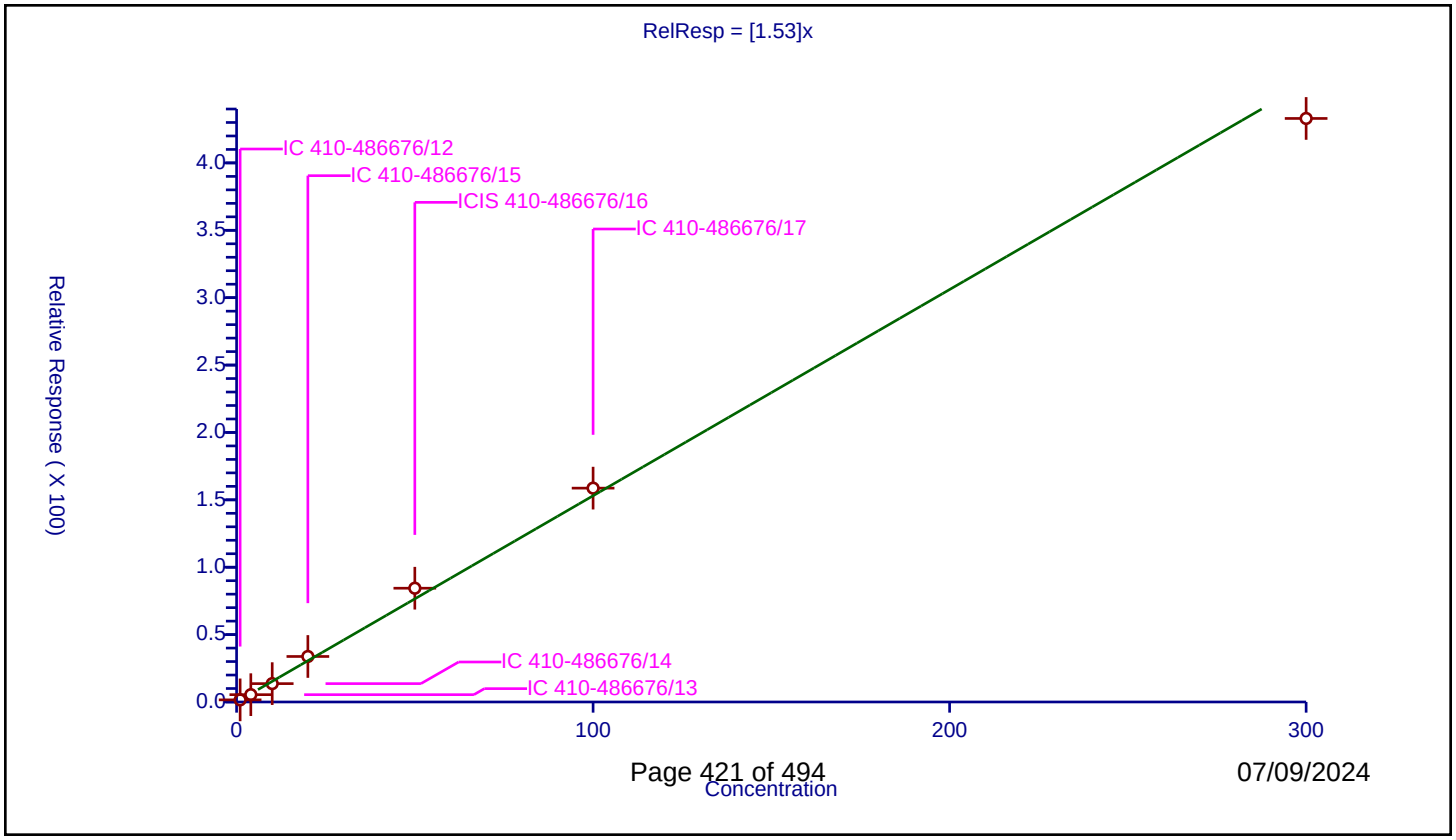
Curve Coefficients

Intercept:	0
Slope:	1.53

Error Coefficients

Relative Standard Deviation:	9.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	1.580901	50.0	380321.0	1.580901	Y
2	IC 410-486676/13	4.0	5.441258	50.0	382237.0	1.360314	Y
3	IC 410-486676/14	10.0	13.632723	50.0	373304.0	1.363272	Y
4	IC 410-486676/15	20.0	33.769745	50.0	379458.0	1.688487	Y
5	ICIS 410-486676/16	50.0	84.425405	50.0	382835.0	1.688508	Y
6	IC 410-486676/17	100.0	158.692426	50.0	379428.0	1.586924	Y
7	IC 410-486676/18	300.0	433.004	50.0	405719.0	1.443347	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

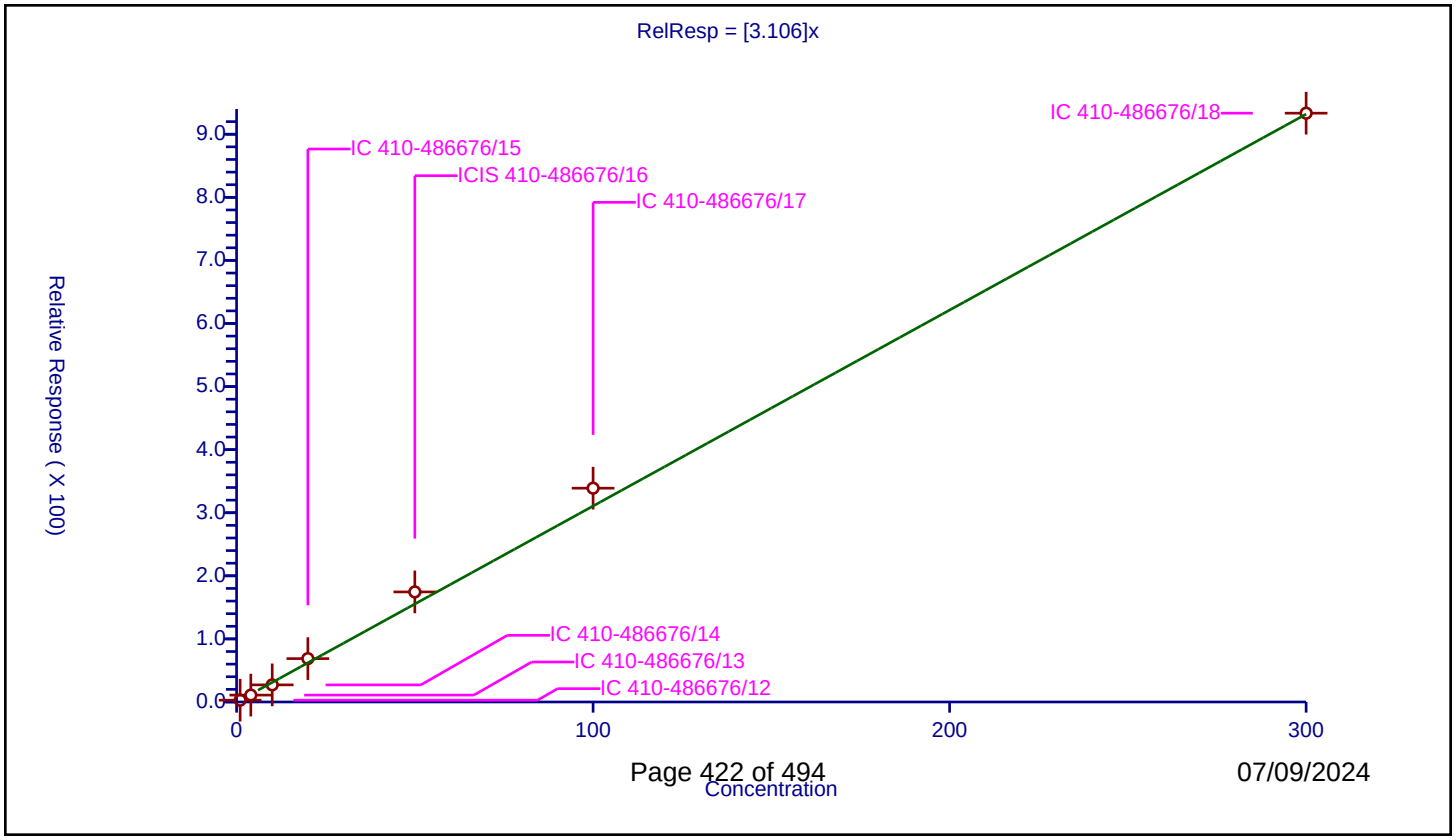
Curve Coefficients

Intercept:	0
Slope:	3.106

Error Coefficients

Relative Standard Deviation:	10.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	2.872836	50.0	380321.0	2.872836	Y
2	IC 410-486676/13	4.0	10.919142	50.0	382237.0	2.729785	Y
3	IC 410-486676/14	10.0	27.134186	50.0	373304.0	2.713419	Y
4	IC 410-486676/15	20.0	68.75952	50.0	379458.0	3.437976	Y
5	ICIS 410-486676/16	50.0	174.486528	50.0	382835.0	3.489731	Y
6	IC 410-486676/17	100.0	338.921614	50.0	379428.0	3.389216	Y
7	IC 410-486676/18	300.0	933.402675	50.0	405719.0	3.111342	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

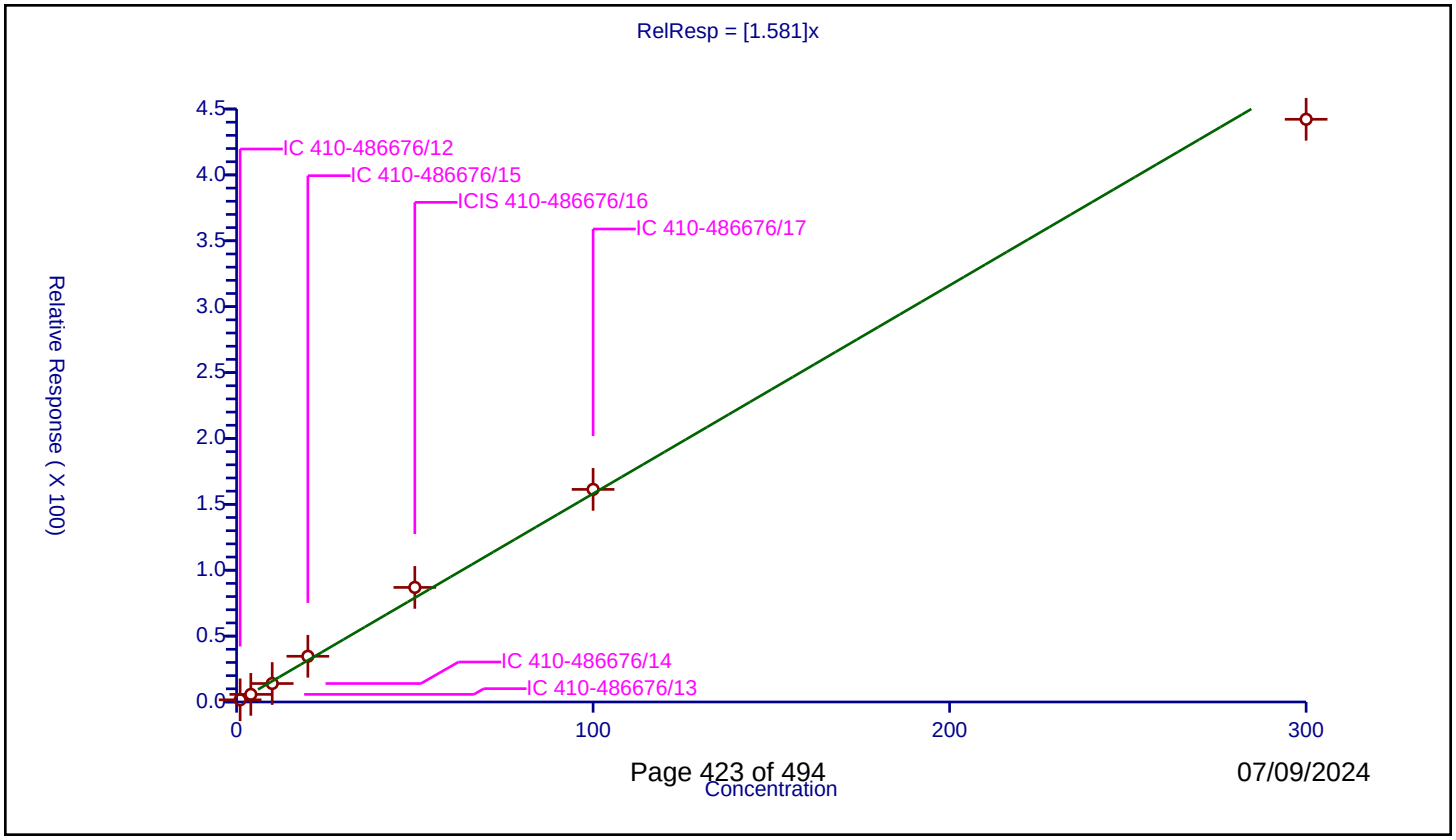
Curve Coefficients

Intercept:	0
Slope:	1.581

Error Coefficients

Relative Standard Deviation:	8.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	1.657021	50.0	380321.0	1.657021	Y
2	IC 410-486676/13	4.0	5.7828	50.0	382237.0	1.4457	Y
3	IC 410-486676/14	10.0	14.02128	50.0	373304.0	1.402128	Y
4	IC 410-486676/15	20.0	34.703182	50.0	379458.0	1.735159	Y
5	ICIS 410-486676/16	50.0	86.953387	50.0	382835.0	1.739068	Y
6	IC 410-486676/17	100.0	161.334561	50.0	379428.0	1.613346	Y
7	IC 410-486676/18	300.0	442.214686	50.0	405719.0	1.474049	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

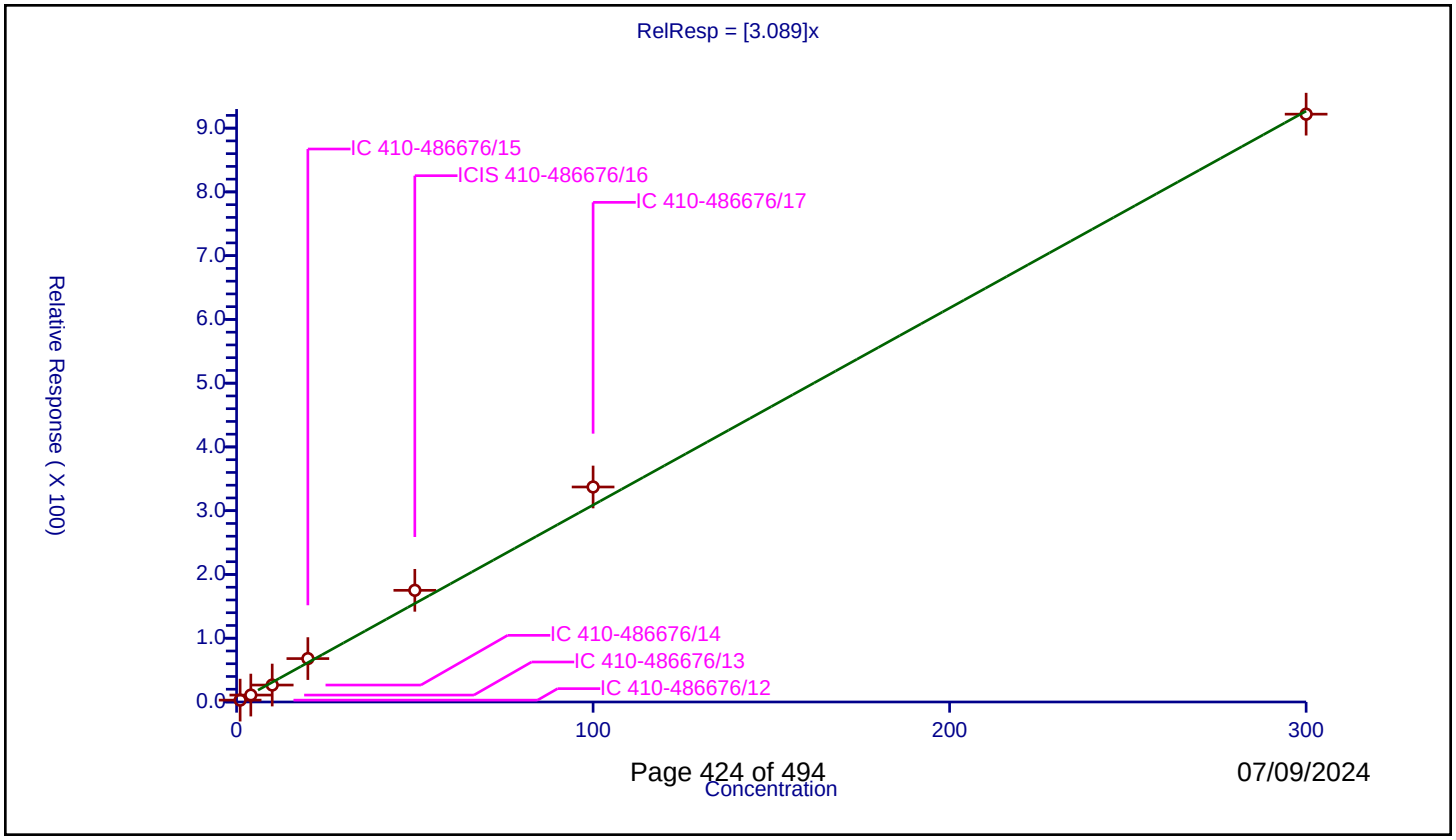
Curve Coefficients

Intercept:	0
Slope:	3.089

Error Coefficients

Relative Standard Deviation:	11.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	2.898998	50.0	380321.0	2.898998	Y
2	IC 410-486676/13	4.0	10.869304	50.0	382237.0	2.717326	Y
3	IC 410-486676/14	10.0	26.568695	50.0	373304.0	2.656869	Y
4	IC 410-486676/15	20.0	68.051668	50.0	379458.0	3.402583	Y
5	ICIS 410-486676/16	50.0	175.13498	50.0	382835.0	3.5027	Y
6	IC 410-486676/17	100.0	337.202974	50.0	379428.0	3.37203	Y
7	IC 410-486676/18	300.0	921.927985	50.0	405719.0	3.073093	Y



Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

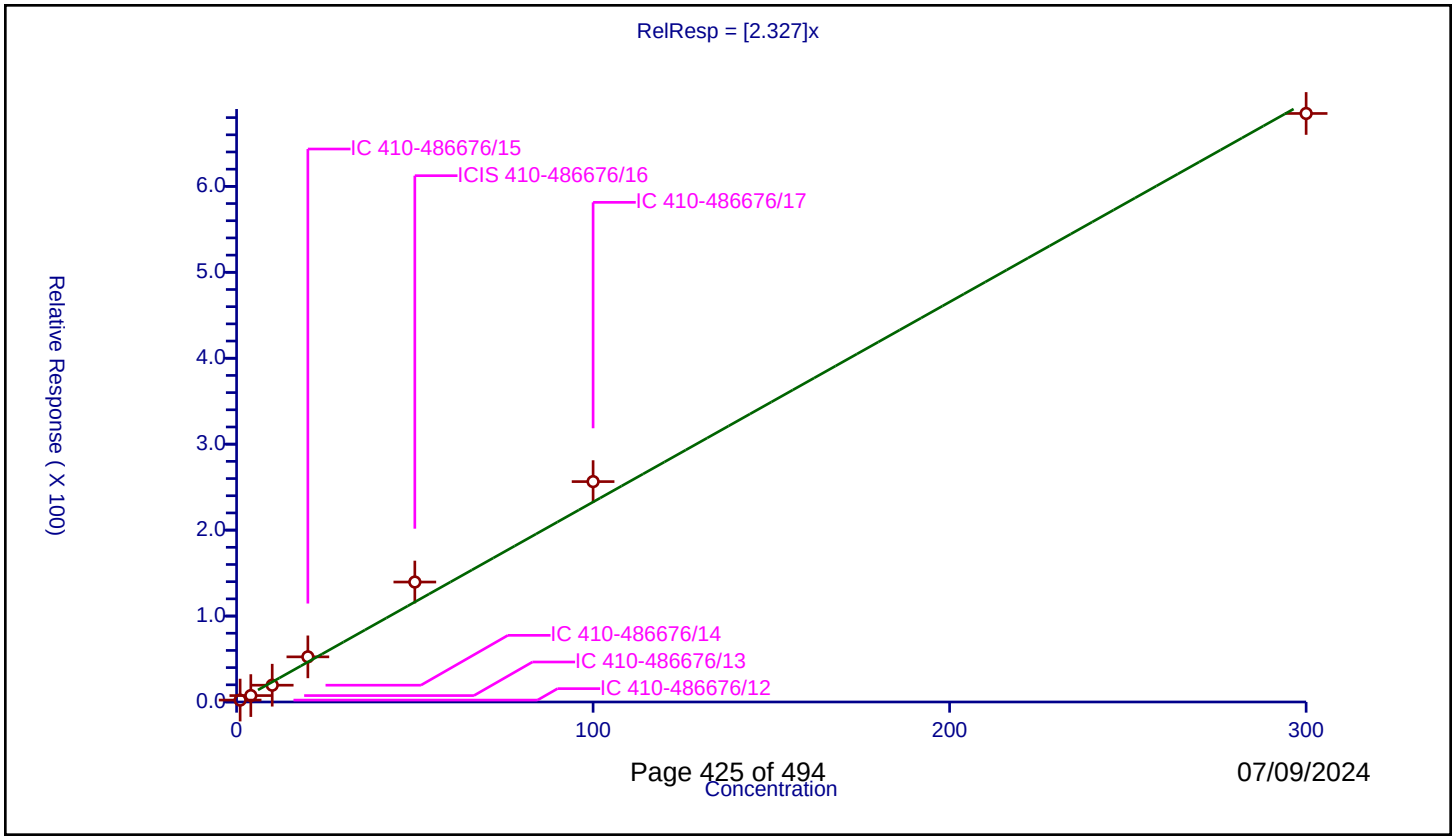
Curve Coefficients

Intercept:	0
Slope:	2.327

Error Coefficients

Relative Standard Deviation:	15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	2.203007	50.0	380321.0	2.203007	Y
2	IC 410-486676/13	4.0	7.477691	50.0	382237.0	1.869423	Y
3	IC 410-486676/14	10.0	19.524838	50.0	373304.0	1.952484	Y
4	IC 410-486676/15	20.0	52.53032	50.0	379458.0	2.626516	Y
5	ICIS 410-486676/16	50.0	139.591991	50.0	382835.0	2.79184	Y
6	IC 410-486676/17	100.0	256.454716	50.0	379428.0	2.564547	Y
7	IC 410-486676/18	300.0	684.820775	50.0	405719.0	2.282736	Y



Calibration / 1,3-Diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

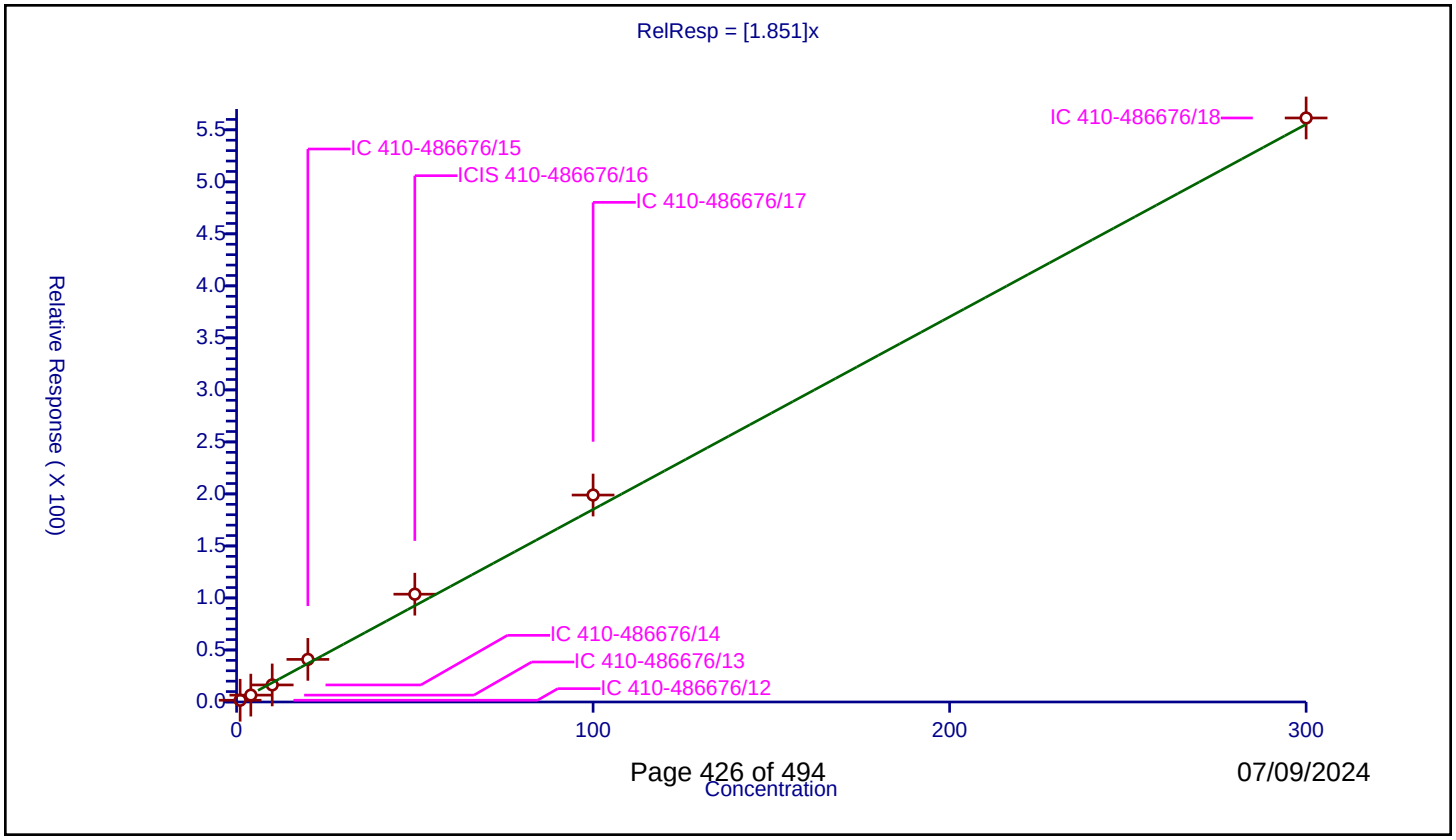
Curve Coefficients

Intercept:	0
Slope:	1.851

Error Coefficients

Relative Standard Deviation:	10.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	1.687653	50.0	380321.0	1.687653	Y
2	IC 410-486676/13	4.0	6.59787	50.0	382237.0	1.649467	Y
3	IC 410-486676/14	10.0	16.397628	50.0	373304.0	1.639763	Y
4	IC 410-486676/15	20.0	40.946824	50.0	379458.0	2.047341	Y
5	ICIS 410-486676/16	50.0	103.63146	50.0	382835.0	2.072629	Y
6	IC 410-486676/17	100.0	198.926542	50.0	379428.0	1.989265	Y
7	IC 410-486676/18	300.0	561.393846	50.0	405719.0	1.871313	Y



Calibration / p-Diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

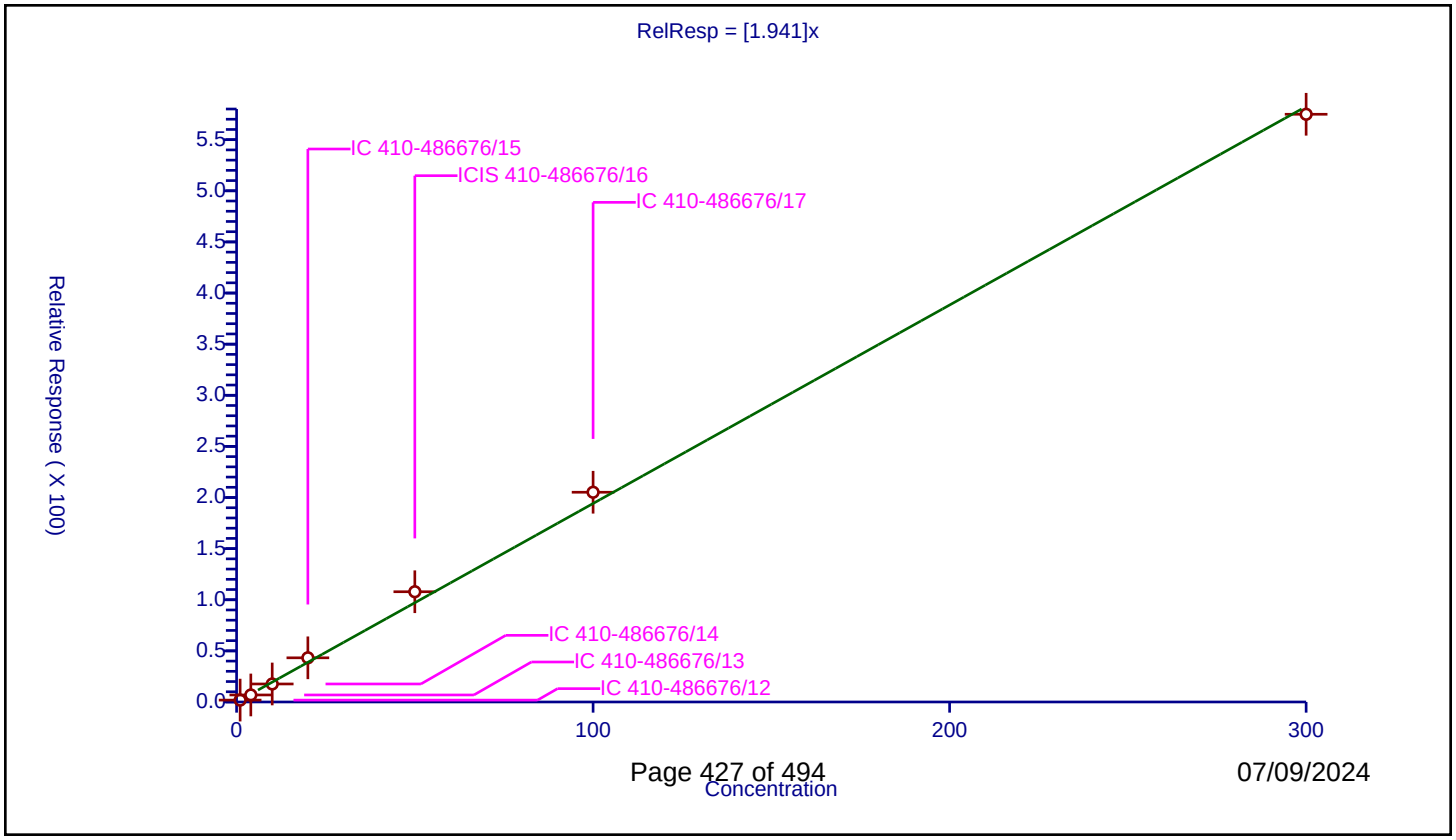
Curve Coefficients

Intercept:	0
Slope:	1.941

Error Coefficients

Relative Standard Deviation:	9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	1.828193	50.0	380321.0	1.828193	Y
2	IC 410-486676/13	4.0	6.86302	50.0	382237.0	1.715755	Y
3	IC 410-486676/14	10.0	17.613125	50.0	373304.0	1.761312	Y
4	IC 410-486676/15	20.0	43.213083	50.0	379458.0	2.160654	Y
5	ICIS 410-486676/16	50.0	107.833531	50.0	382835.0	2.156671	Y
6	IC 410-486676/17	100.0	205.158423	50.0	379428.0	2.051584	Y
7	IC 410-486676/18	300.0	574.858338	50.0	405719.0	1.916194	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

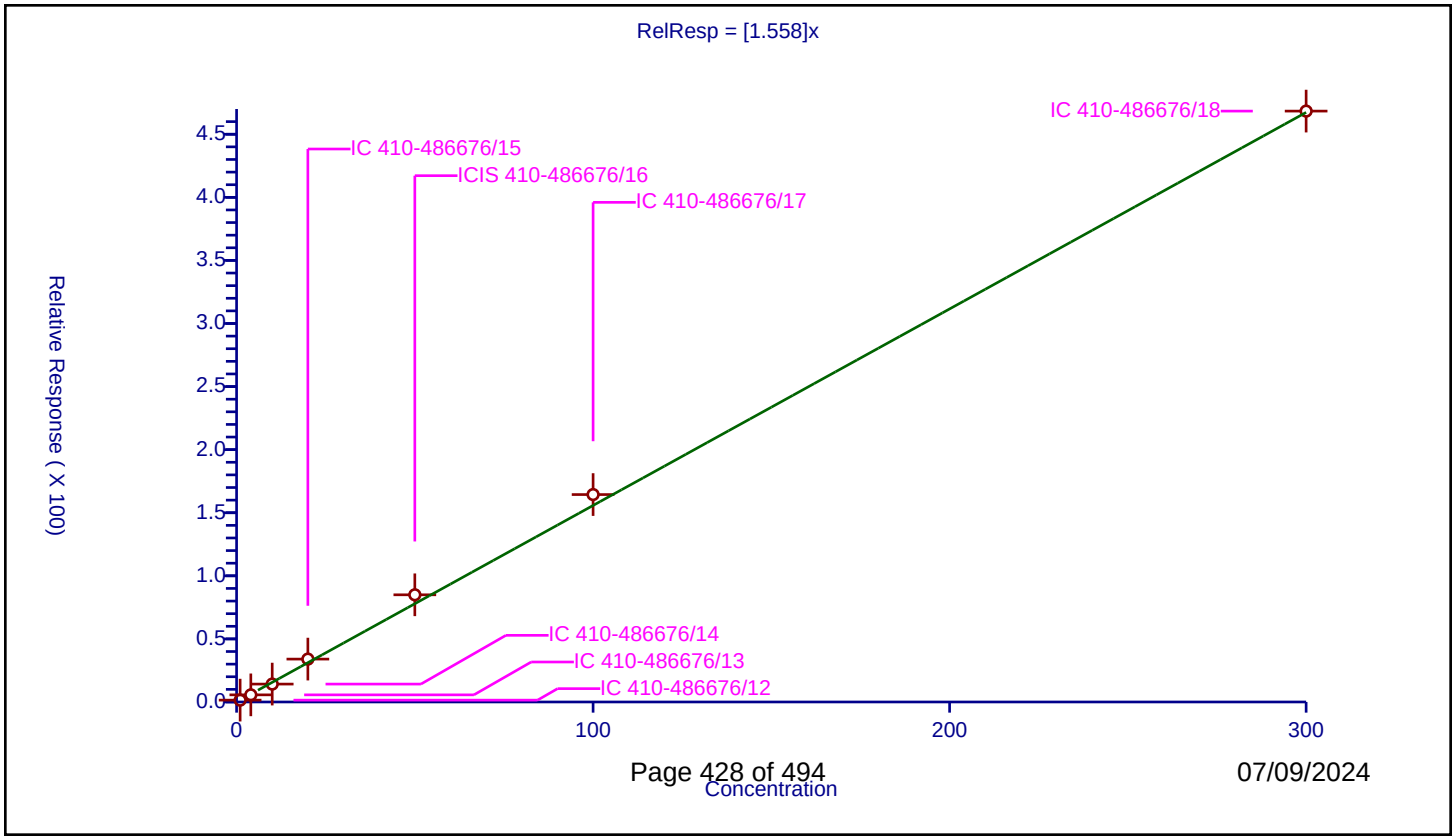
Curve Coefficients

Intercept:	0
Slope:	1.558

Error Coefficients

Relative Standard Deviation:	8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	1.468233	50.0	380321.0	1.468233	Y
2	IC 410-486676/13	4.0	5.649636	50.0	382237.0	1.412409	Y
3	IC 410-486676/14	10.0	14.1879	50.0	373304.0	1.41879	Y
4	IC 410-486676/15	20.0	33.996516	50.0	379458.0	1.699826	Y
5	ICIS 410-486676/16	50.0	84.966108	50.0	382835.0	1.699322	Y
6	IC 410-486676/17	100.0	164.417755	50.0	379428.0	1.644178	Y
7	IC 410-486676/18	300.0	468.35322	50.0	405719.0	1.561177	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

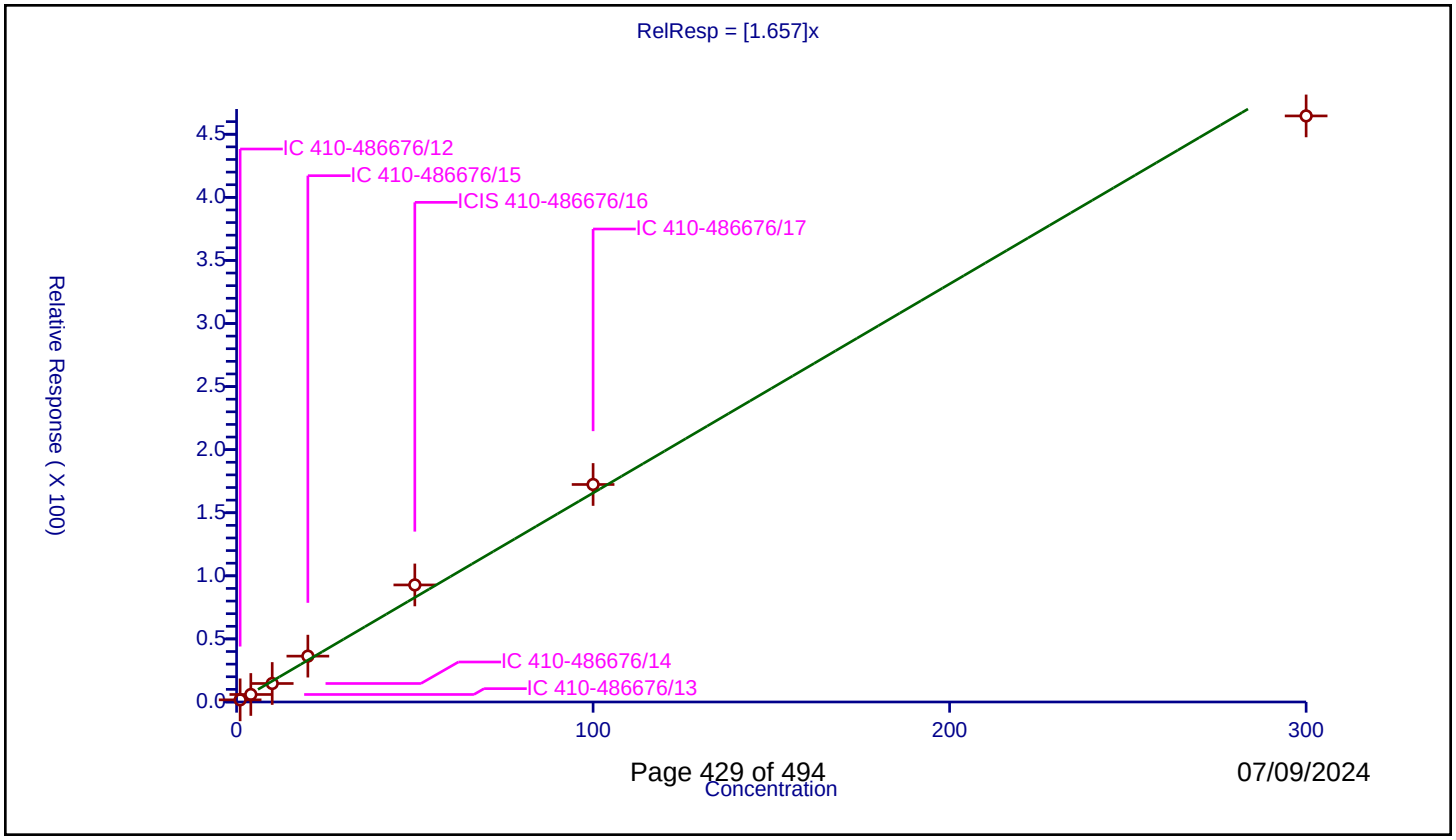
Curve Coefficients

Intercept:	0
Slope:	1.657

Error Coefficients

Relative Standard Deviation:	9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	1.699617	50.0	380321.0	1.699617	Y
2	IC 410-486676/13	4.0	5.941209	50.0	382237.0	1.485302	Y
3	IC 410-486676/14	10.0	14.667938	50.0	373304.0	1.466794	Y
4	IC 410-486676/15	20.0	36.343284	50.0	379458.0	1.817164	Y
5	ICIS 410-486676/16	50.0	92.787101	50.0	382835.0	1.855742	Y
6	IC 410-486676/17	100.0	172.393577	50.0	379428.0	1.723936	Y
7	IC 410-486676/18	300.0	464.524338	50.0	405719.0	1.548414	Y



Calibration / o-diethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

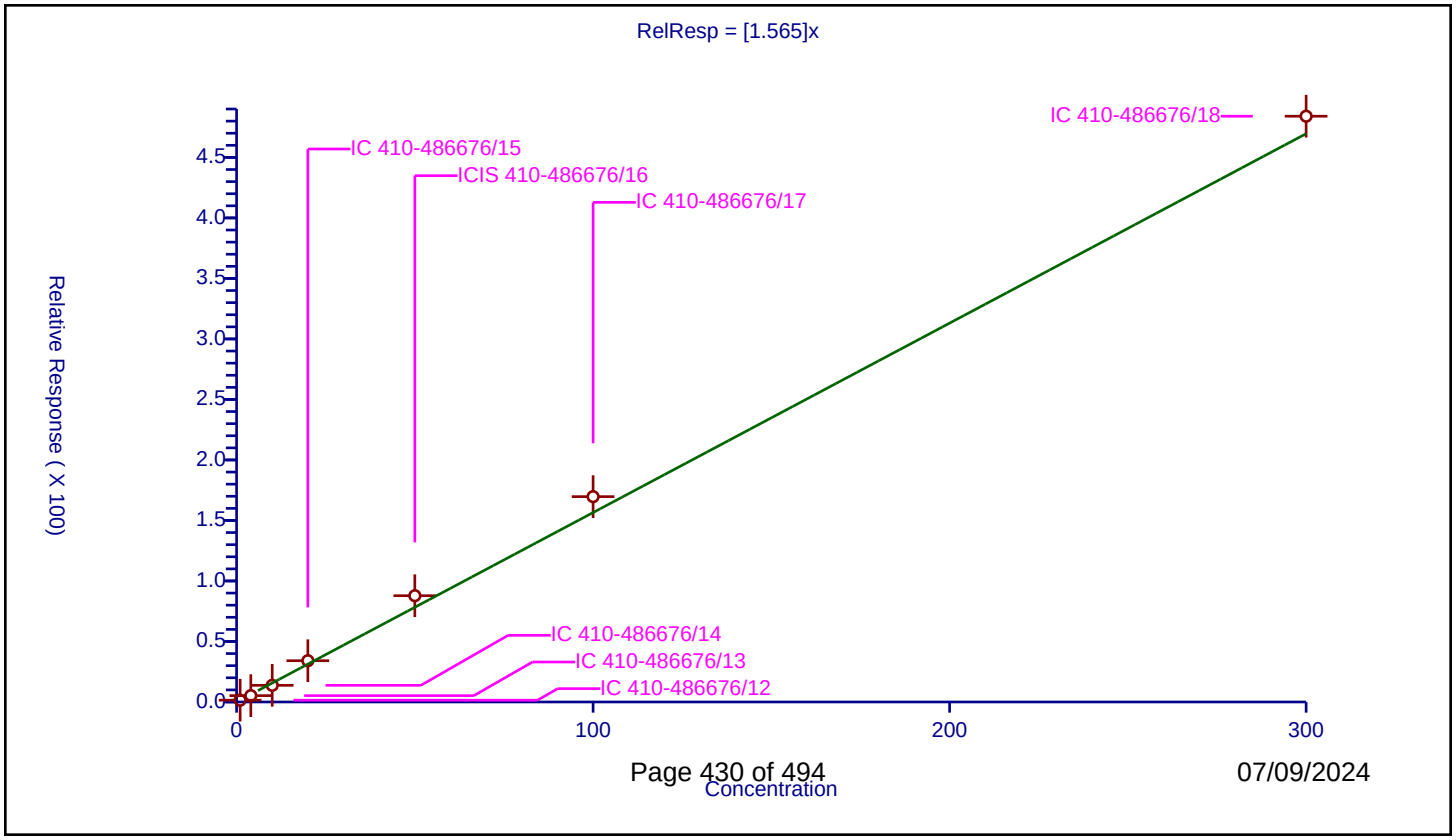
Curve Coefficients

Intercept:	0
Slope:	1.565

Error Coefficients

Relative Standard Deviation:	11.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	1.494264	50.0	380321.0	1.494264	Y
2	IC 410-486676/13	4.0	5.262573	50.0	382237.0	1.315643	Y
3	IC 410-486676/14	10.0	13.753402	50.0	373304.0	1.37534	Y
4	IC 410-486676/15	20.0	34.110363	50.0	379458.0	1.705518	Y
5	ICIS 410-486676/16	50.0	87.813026	50.0	382835.0	1.756261	Y
6	IC 410-486676/17	100.0	169.685817	50.0	379428.0	1.696858	Y
7	IC 410-486676/18	300.0	484.040432	50.0	405719.0	1.613468	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

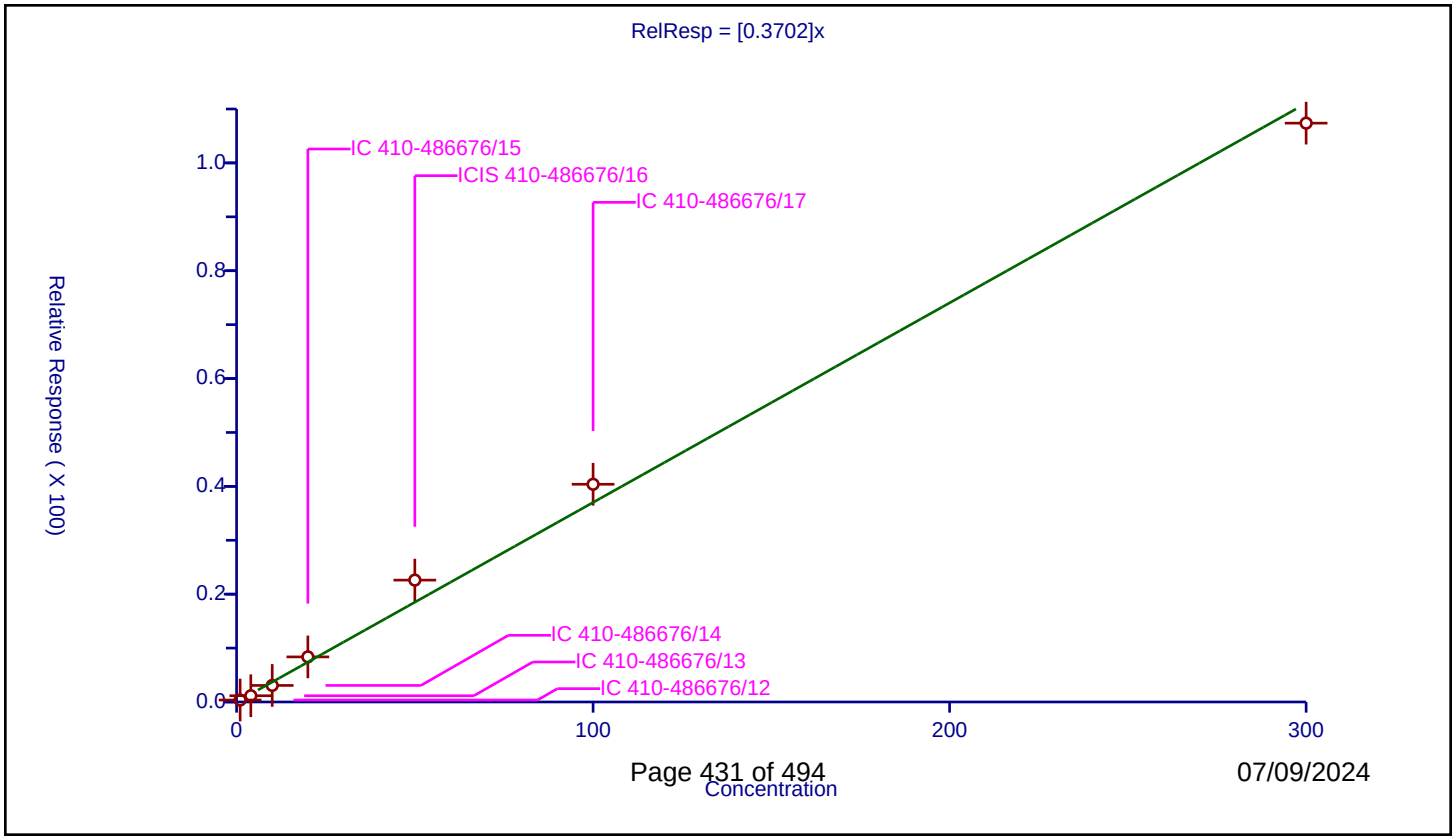
Curve Coefficients

Intercept:	0
Slope:	0.3702

Error Coefficients

Relative Standard Deviation:	15.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.362457	50.0	380321.0	0.362457	Y
2	IC 410-486676/13	4.0	1.158313	50.0	382237.0	0.289578	Y
3	IC 410-486676/14	10.0	3.06908	50.0	373304.0	0.306908	Y
4	IC 410-486676/15	20.0	8.364957	50.0	379458.0	0.418248	Y
5	ICIS 410-486676/16	50.0	22.611438	50.0	382835.0	0.452229	Y
6	IC 410-486676/17	100.0	40.38869	50.0	379428.0	0.403887	Y
7	IC 410-486676/18	300.0	107.376657	50.0	405719.0	0.357922	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

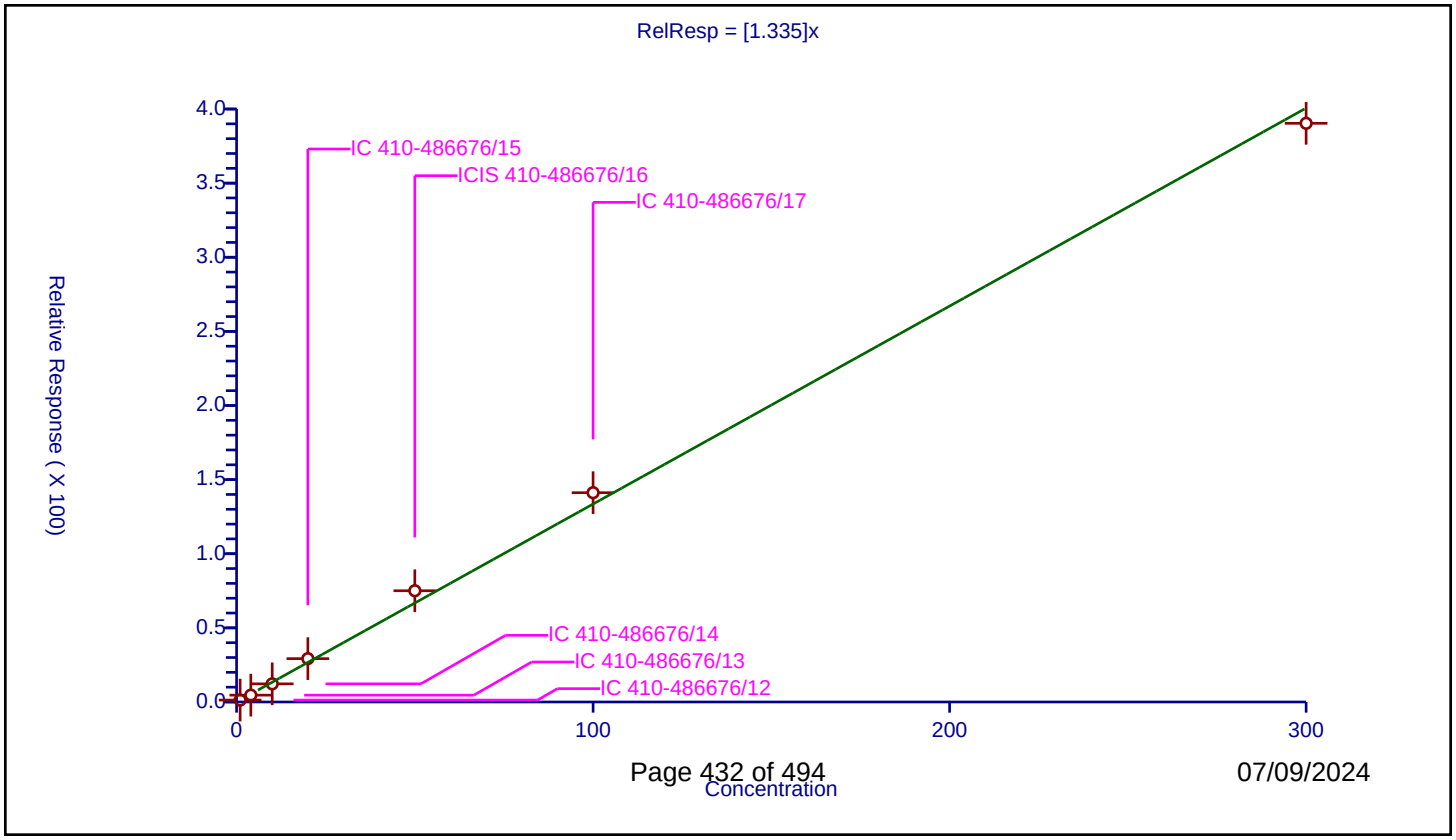
Curve Coefficients

Intercept:	0
Slope:	1.335

Error Coefficients

Relative Standard Deviation:	9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	1.292066	50.0	380321.0	1.292066	Y
2	IC 410-486676/13	4.0	4.621609	50.0	382237.0	1.155402	Y
3	IC 410-486676/14	10.0	12.245918	50.0	373304.0	1.224592	Y
4	IC 410-486676/15	20.0	29.234856	50.0	379458.0	1.461743	Y
5	ICIS 410-486676/16	50.0	75.043295	50.0	382835.0	1.500866	Y
6	IC 410-486676/17	100.0	141.17461	50.0	379428.0	1.411746	Y
7	IC 410-486676/18	300.0	390.358475	50.0	405719.0	1.301195	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

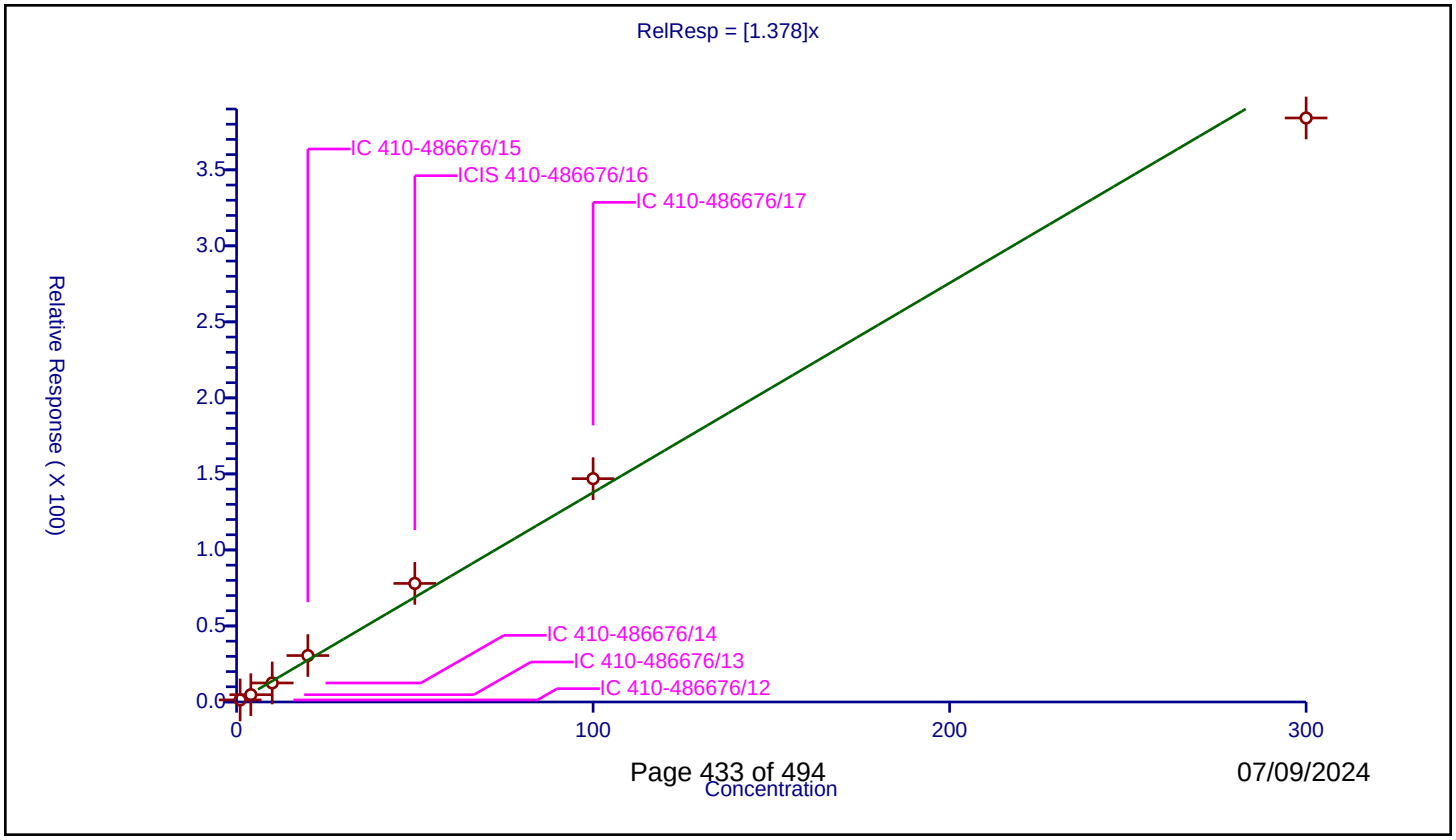
Curve Coefficients

Intercept:	0
Slope:	1.378

Error Coefficients

Relative Standard Deviation:	10.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	1.358984	50.0	380321.0	1.358984	Y
2	IC 410-486676/13	4.0	4.79807	50.0	382237.0	1.199518	Y
3	IC 410-486676/14	10.0	12.50509	50.0	373304.0	1.250509	Y
4	IC 410-486676/15	20.0	30.539085	50.0	379458.0	1.526954	Y
5	ICIS 410-486676/16	50.0	77.990518	50.0	382835.0	1.55981	Y
6	IC 410-486676/17	100.0	146.87108	50.0	379428.0	1.468711	Y
7	IC 410-486676/18	300.0	384.111047	50.0	405719.0	1.28037	Y



Calibration / 2-Ethylhexyl acrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

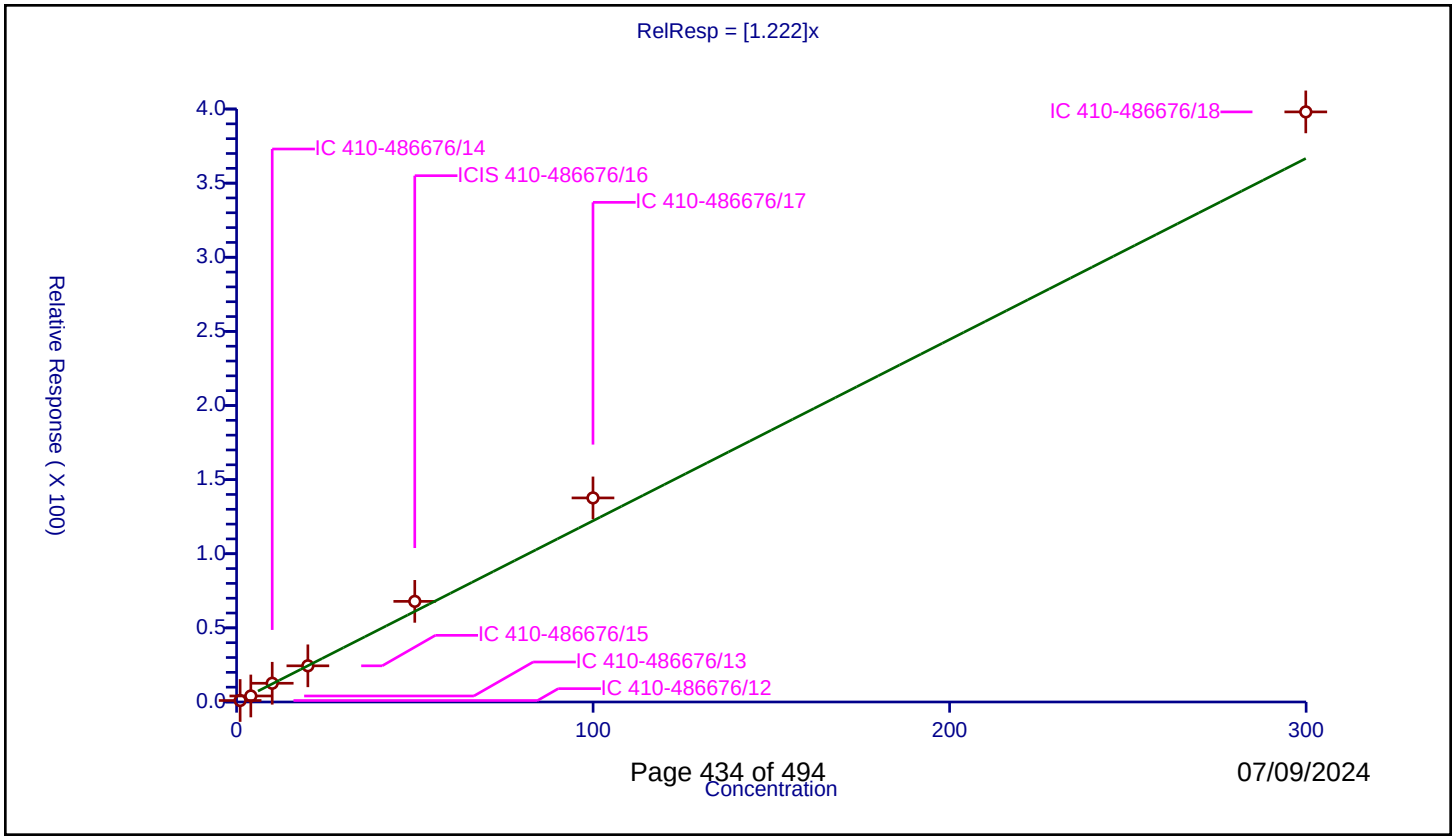
Curve Coefficients

Intercept:	0
Slope:	1.222

Error Coefficients

Relative Standard Deviation:	12.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	0.9997	0.996132	50.0	380321.0	0.996431	Y
2	IC 410-486676/13	3.9988	4.051021	50.0	382237.0	1.013059	Y
3	IC 410-486676/14	9.997	12.645592	50.0	373304.0	1.264939	Y
4	IC 410-486676/15	19.994	24.403096	50.0	379458.0	1.220521	Y
5	ICIS 410-486676/16	49.985	67.878459	50.0	382835.0	1.357977	Y
6	IC 410-486676/17	99.97	137.657474	50.0	379428.0	1.376988	Y
7	IC 410-486676/18	299.91	398.049389	50.0	405719.0	1.327229	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

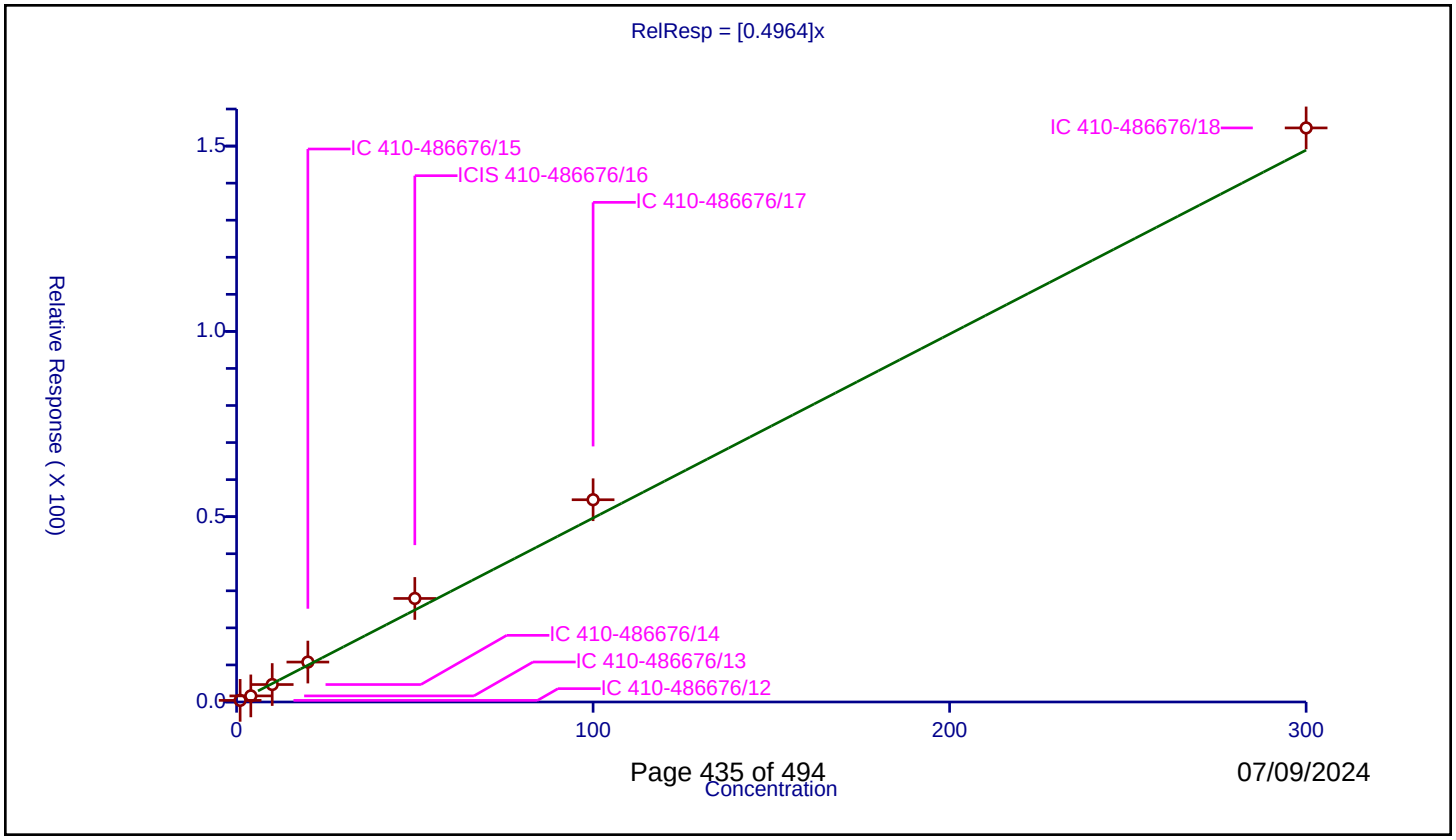
Curve Coefficients

Intercept:	0
Slope:	0.4964

Error Coefficients

Relative Standard Deviation:	11.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	0.433844	50.0	380321.0	0.433844	Y
2	IC 410-486676/13	4.0	1.64139	50.0	382237.0	0.410348	Y
3	IC 410-486676/14	10.0	4.711308	50.0	373304.0	0.471131	Y
4	IC 410-486676/15	20.0	10.771416	50.0	379458.0	0.538571	Y
5	ICIS 410-486676/16	50.0	27.935925	50.0	382835.0	0.558719	Y
6	IC 410-486676/17	100.0	54.574913	50.0	379428.0	0.545749	Y
7	IC 410-486676/18	300.0	154.901915	50.0	405719.0	0.51634	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

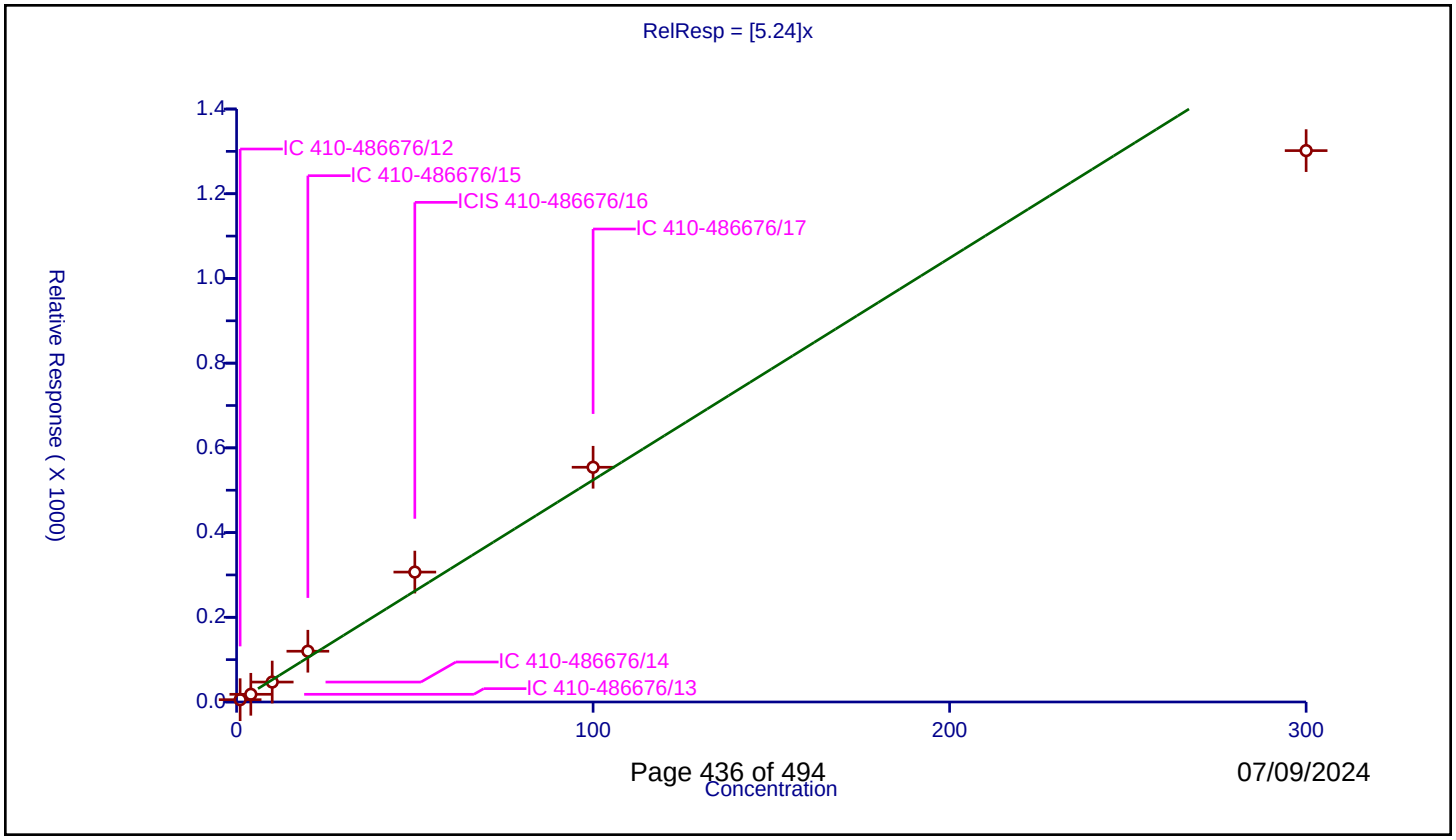
Curve Coefficients

Intercept:	0
Slope:	5.24

Error Coefficients

Relative Standard Deviation:	13.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	5.42752	50.0	380321.0	5.42752	Y
2	IC 410-486676/13	4.0	18.158237	50.0	382237.0	4.539559	Y
3	IC 410-486676/14	10.0	47.08428	50.0	373304.0	4.708428	Y
4	IC 410-486676/15	20.0	119.862936	50.0	379458.0	5.993147	Y
5	ICIS 410-486676/16	50.0	306.680162	50.0	382835.0	6.133603	Y
6	IC 410-486676/17	100.0	554.185774	50.0	379428.0	5.541858	Y
7	IC 410-486676/18	300.0	1301.804697	50.0	405719.0	4.339349	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

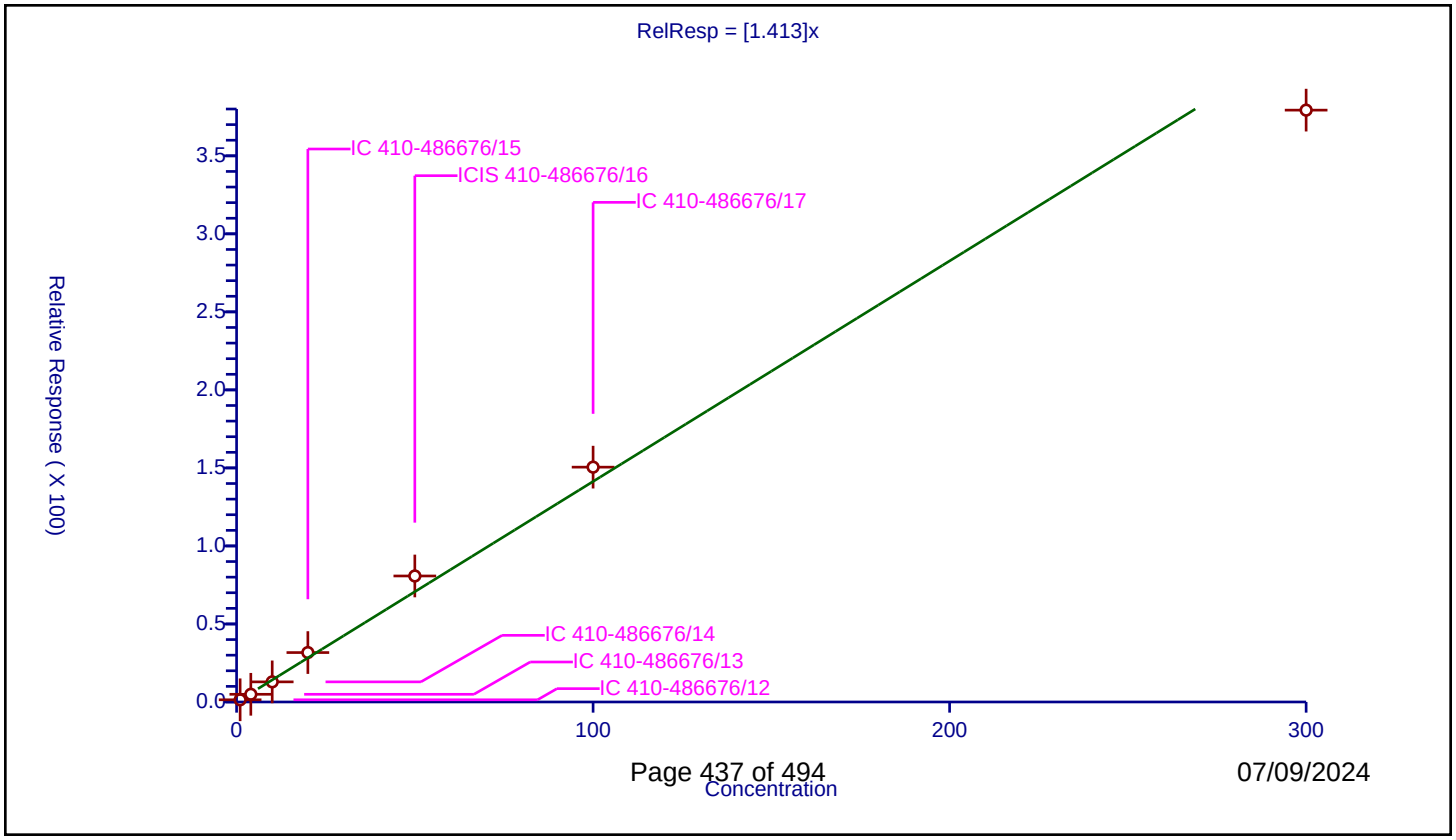
Curve Coefficients

Intercept:	0
Slope:	1.413

Error Coefficients

Relative Standard Deviation:	11.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	1.402105	50.0	380321.0	1.402105	Y
2	IC 410-486676/13	4.0	4.930187	50.0	382237.0	1.232547	Y
3	IC 410-486676/14	10.0	12.888691	50.0	373304.0	1.288869	Y
4	IC 410-486676/15	20.0	31.678605	50.0	379458.0	1.58393	Y
5	ICIS 410-486676/16	50.0	80.75607	50.0	382835.0	1.615121	Y
6	IC 410-486676/17	100.0	150.501413	50.0	379428.0	1.505014	Y
7	IC 410-486676/18	300.0	379.284677	50.0	405719.0	1.264282	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

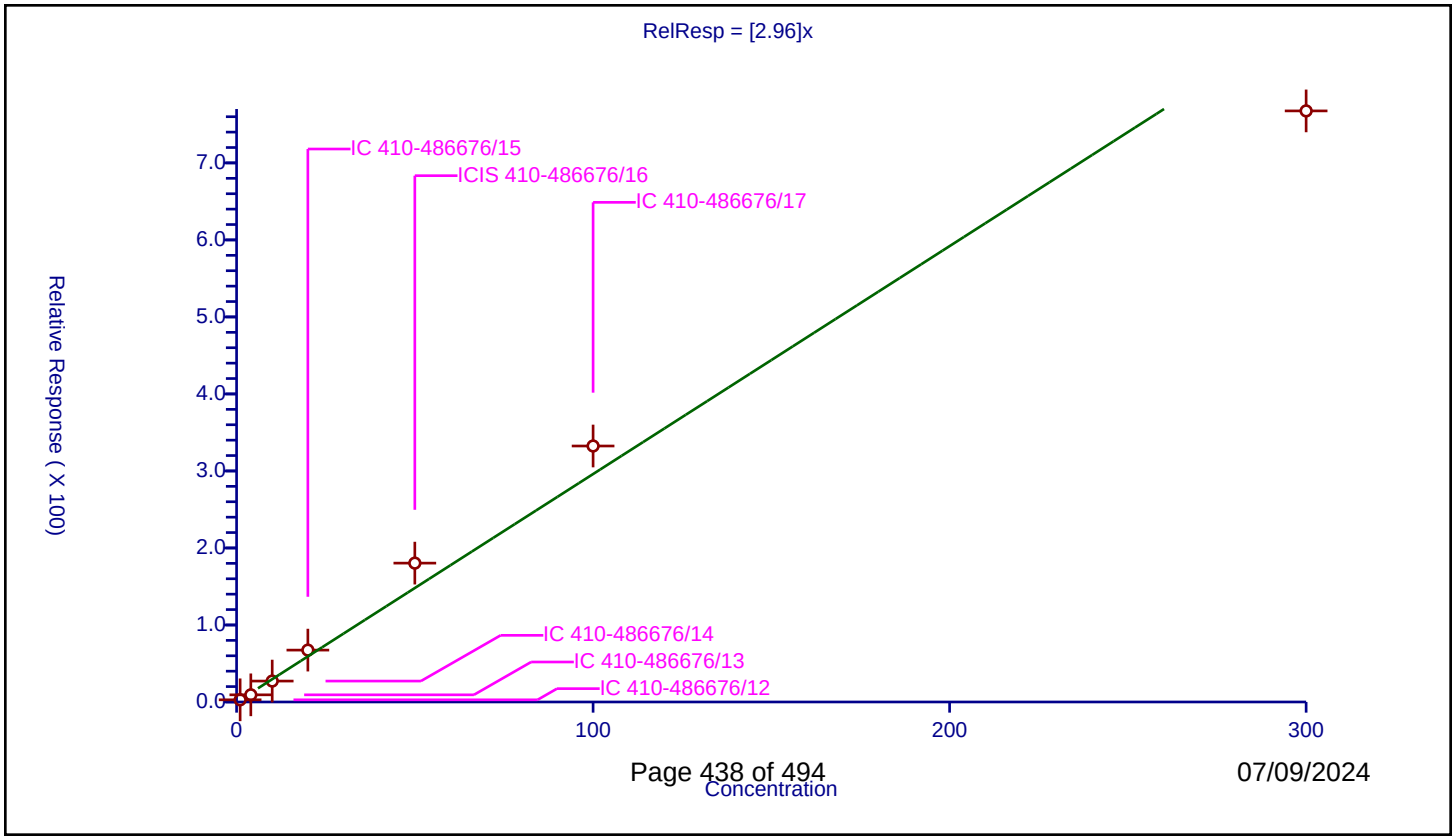
Curve Coefficients

Intercept:	0
Slope:	2.96

Error Coefficients

Relative Standard Deviation:	16.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-486676/12	1.0	2.822484	50.0	380321.0	2.822484	Y
2	IC 410-486676/13	4.0	9.287824	50.0	382237.0	2.321956	Y
3	IC 410-486676/14	10.0	27.178385	50.0	373304.0	2.717839	Y
4	IC 410-486676/15	20.0	67.352645	50.0	379458.0	3.367632	Y
5	ICIS 410-486676/16	50.0	180.328079	50.0	382835.0	3.606562	Y
6	IC 410-486676/17	100.0	332.409047	50.0	379428.0	3.32409	Y
7	IC 410-486676/18	300.0	767.535289	50.0	405719.0	2.558451	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Lab Sample ID: ICV 410-486676/20 Calibration Date: 03/25/2024 19:47

Instrument ID: 9355 Calib Start Date: 03/25/2024 16:50

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/25/2024 20:33

Lab File ID: YM25X19.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	0.4676	0.3784	0.1000	16.2	20.0	-19.1	30.0
Chloromethane	Ave	0.5002	0.4233	0.1000	16.9	20.0	-15.4	30.0
Vinyl chloride	Ave	0.4632	0.4043	0.1000	17.5	20.0	-12.7	30.0
1,3-Butadiene	Ave	0.4482	0.3686		16.4	20.0	-17.8	30.0
Bromomethane	Ave	0.3141	0.2753	0.1000	17.5	20.0	-12.3	30.0
Chloroethane	Ave	0.2180	0.2109	0.1000	19.3	20.0	-3.3	30.0
Dichlorofluoromethane	Ave	0.6498	0.5578		17.2	20.0	-14.2	30.0
Trichlorofluoromethane	Ave	0.4738	0.4354	0.1000	18.4	20.0	-8.1	30.0
n-Pentane	Ave	0.3829	0.3284		17.1	20.0	-14.3	30.0
Ethyl ether	Ave	0.1997	0.2147		21.5	20.0	7.5	30.0
Freon 123a	Ave	0.3041	0.3033		20.0	20.0	-0.2	30.0
Acrolein	Ave	1.039	0.9780		141	150	-5.9	30.0
1,1-Dichloroethene	Ave	0.2053	0.2071	0.1000	20.2	20.0	0.9	30.0
Acetone	Ave	0.5495	0.4824	0.1000	219	250	-12.2	30.0
Freon 113	Ave	0.2627	0.2211	0.1000	16.8	20.0	-15.8	30.0
2-Propanol	Ave	0.4957	0.4152		126	150	-16.2	30.0
Methyl iodide	Ave	0.4358	0.4047		18.6	20.0	-7.1	30.0
Carbon disulfide	Ave	0.7879	0.7036	0.1000	17.9	20.0	-10.7	30.0
Methyl acetate	Ave	0.3070	0.3488	0.1000	22.7	20.0	13.6	30.0
Allyl chloride	Ave	0.3586	0.2961		16.5	20.0	-17.4	30.0
Methylene Chloride	Ave	0.2482	0.2454	0.1000	19.8	20.0	-1.1	30.0
t-Butyl alcohol	Ave	1.039	0.7903		152	200	-23.9	30.0
Acrylonitrile	Ave	0.1670	0.1649		98.7	100	-1.3	30.0
Methyl tert-butyl ether	Ave	0.9345	0.8455	0.1000	18.1	20.0	-9.5	30.0
trans-1,2-Dichloroethene	Ave	0.2181	0.2112	0.1000	19.4	20.0	-3.2	30.0
n-Hexane	Ave	0.3135	0.2897		18.5	20.0	-7.6	30.0
1,1-Dichloroethane	Ave	0.3943	0.3887	0.2000	19.7	20.0	-1.4	30.0
Isopropyl ether	Ave	0.7916	0.7371		18.6	20.0	-6.9	30.0
2-Chloro-1,3-butadiene	Ave	0.3457	0.3280		19.0	20.0	-5.1	30.0
Ethyl t-butyl ether	Ave	0.8484	0.7941		18.7	20.0	-6.4	30.0
2-Butanone (MEK)	Ave	0.2731	0.2334	0.1000	214	250	-14.5	30.0
cis-1,2-Dichloroethene	Ave	0.2574	0.2513	0.1000	19.5	20.0	-2.4	30.0
2,2-Dichloropropane	Ave	0.4166	0.4050		19.4	20.0	-2.8	30.0
Propionitrile	Ave	0.8965	0.8353		140	150	-6.8	30.0
Methyl acrylate	Ave	0.3736	0.3691		19.7	20.0	-1.2	30.0
Methacrylonitrile	Ave	0.1720	0.1678		146	150	-2.5	30.0
Bromochloromethane	Ave	0.1312	0.1302		19.8	20.0	-0.8	30.0
Tetrahydrofuran	Ave	0.7957	0.6797		85.4	100	-14.6	30.0
Chloroform	Lin1		0.4703	0.2000	19.4	20.0	-3.2	30.0
1,1,1-Trichloroethane	Ave	0.4030	0.3905	0.1000	19.4	20.0	-3.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Lab Sample ID: ICV 410-486676/20 Calibration Date: 03/25/2024 19:47

Instrument ID: 9355 Calib Start Date: 03/25/2024 16:50

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/25/2024 20:33

Lab File ID: YM25X19.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
Cyclohexane	Ave	0.4436	0.4038	0.1000	18.2	20.0	-9.0	30.0
1,1-Dichloropropene	Ave	0.3062	0.2992		19.5	20.0	-2.3	30.0
Carbon tetrachloride	Ave	0.3232	0.3013	0.1000	18.6	20.0	-6.8	30.0
Isobutyl alcohol	Ave	0.3269	0.2600		398	500	-20.5	30.0
Benzene	Ave	0.9642	0.9361	0.5000	19.4	20.0	-2.9	30.0
1,2-Dichloroethane	Ave	0.3477	0.3352	0.1000	19.3	20.0	-3.6	30.0
t-Amyl methyl ether	Ave	0.8597	0.7873		18.3	20.0	-8.4	30.0
n-Heptane	Ave	0.3541	0.3055		17.3	20.0	-13.7	30.0
n-Butanol	Ave	0.2427	0.1935		797	1000	-20.3	30.0
Trichloroethene	Ave	0.2477	0.2404	0.2000	19.4	20.0	-2.9	30.0
Ethyl acrylate	Ave	0.4229	0.4718		22.3	20.0	11.6	30.0
Methylcyclohexane	Ave	0.4528	0.4208	0.1000	18.6	20.0	-7.1	30.0
1,2-Dichloropropane	Ave	0.2540	0.2453	0.1000	19.3	20.0	-3.4	30.0
t-Amyl ethyl ether	Ave	0.4166	0.3537		17.0	20.0	-15.1	30.0
Methyl methacrylate	Ave	0.2711	0.2412		17.8	20.0	-11.0	30.0
1,4-Dioxane	Ave	0.0820	0.0699	0.0050	426	500	-14.7	30.0
Dibromomethane	Ave	0.1802	0.1702		18.9	20.0	-5.6	30.0
Bromodichloromethane	Ave	0.3171	0.2922	0.2000	18.4	20.0	-7.9	30.0
2-Nitropropane	Ave	1.534	1.149		15.0	20.0	-25.1	30.0
2-Chloroethyl vinyl ether	Ave	0.1943	0.1586		16.3	20.0	-18.4	30.0
cis-1,3-Dichloropropene	Ave	0.3996	0.3501	0.2000	17.5	20.0	-12.4	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.5332	0.4884	0.1000	229	250	-8.4	30.0
Toluene	Ave	0.8278	0.7818	0.4000	18.9	20.0	-5.6	30.0
trans-1,3-Dichloropropene	Ave	0.4935	0.4520	0.1000	18.3	20.0	-8.4	30.0
Ethyl methacrylate	Ave	0.6289	0.5600		17.8	20.0	-11.0	30.0
1,1,2-Trichloroethane	Ave	0.3374	0.3131	0.1000	18.6	20.0	-7.2	30.0
Tetrachloroethene	Ave	0.3537	0.3417	0.2000	19.3	20.0	-3.4	30.0
1,3-Dichloropropane	Ave	0.5396	0.4973		18.4	20.0	-7.8	30.0
2-Hexanone	Ave	0.5137	0.4504	0.1000	219	250	-12.3	30.0
Dibromochloromethane	Ave	0.3493	0.3119		17.9	20.0	-10.7	30.0
1,2-Dibromoethane (EDB)	Ave	0.3557	0.3349	0.1000	18.8	20.0	-5.8	30.0
1-Chlorohexane	Ave	0.4576	0.4051		17.7	20.0	-11.5	30.0
Chlorobenzene	Ave	0.9522	0.8830	0.5000	18.5	20.0	-7.3	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3768	0.3543		18.8	20.0	-6.0	30.0
Ethylbenzene	Ave	1.713	1.610	0.1000	18.8	20.0	-6.0	30.0
m&p-Xylene	Ave	0.6732	0.6271	0.1000	37.3	40.0	-6.9	30.0
n-Butyl acrylate	Ave	0.8056	0.8888		22.1	20.0	10.3	30.0
o-Xylene	Ave	0.7161	0.6675	0.3000	18.6	20.0	-6.8	30.0
Styrene	Ave	1.140	1.062	0.3000	18.6	20.0	-6.8	30.0
Bromoform	Ave	0.2951	0.2518	0.1000	17.1	20.0	-14.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Lab Sample ID: ICV 410-486676/20 Calibration Date: 03/25/2024 19:47

Instrument ID: 9355 Calib Start Date: 03/25/2024 16:50

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/25/2024 20:33

Lab File ID: YM25X19.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
Isopropylbenzene	Ave	1.772	1.801	0.1000	20.3	20.0	1.7	30.0
Cyclohexanone	Lin1		0.2570		314	500	-37.3*	30.0
1,1,2,2-Tetrachloroethane	Ave	1.144	1.043	0.3000	18.2	20.0	-8.8	30.0
Bromobenzene	Ave	0.7597	0.7156		18.8	20.0	-5.8	30.0
trans-1,4-Dichloro-2-butene	Ave	0.3111	0.2929		94.1	100	-5.9	30.0
1,2,3-Trichloropropane	Ave	0.3524	0.3202		18.2	20.0	-9.1	30.0
N-Propylbenzene	Ave	3.521	3.458		19.6	20.0	-1.8	30.0
2-Chlorotoluene	Ave	0.7585	0.6970		18.4	20.0	-8.1	30.0
1,3,5-Trimethylbenzene	Ave	2.749	2.649		19.3	20.0	-3.6	30.0
4-Chlorotoluene	Ave	0.7280	0.6864		18.9	20.0	-5.7	30.0
tert-Butylbenzene	Ave	0.5143	0.4836		18.8	20.0	-6.0	30.0
1,2,4-Trimethylbenzene	Ave	2.867	2.706		18.9	20.0	-5.6	30.0
sec-Butylbenzene	Ave	3.471	3.334		19.2	20.0	-4.0	30.0
1,3-Dichlorobenzene	Ave	1.530	1.427	0.6000	18.7	20.0	-6.7	30.0
p-Isopropyltoluene	Ave	3.106	2.935		18.9	20.0	-5.5	30.0
1,4-Dichlorobenzene	Ave	1.581	1.488	0.5000	18.8	20.0	-5.9	30.0
1,2,3-Trimethylbenzene	Ave	3.089	2.781		18.0	20.0	-10.0	30.0
Benzyl chloride	Ave	2.327	2.041		17.5	20.0	-12.3	30.0
1,3-Diethylbenzene	Ave	1.851	1.760		19.0	20.0	-4.9	30.0
1,4-Diethylbenzene	Ave	1.941	1.879		19.4	20.0	-3.2	30.0
n-Butylbenzene	Ave	1.558	1.472		18.9	20.0	-5.5	30.0
1,2-Dichlorobenzene	Ave	1.657	1.531	0.4000	18.5	20.0	-7.6	30.0
1,2-Diethylbenzene	Ave	1.565	1.466		18.7	20.0	-6.4	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.3702	0.3144	0.0500	17.0	20.0	-15.1	30.0
1,3,5-Trichlorobenzene	Ave	1.335	1.252		18.7	20.0	-6.3	30.0
1,2,4-Trichlorobenzene	Ave	1.378	1.313	0.2000	19.1	20.0	-4.7	30.0
2-Ethylhexyl acrylate	Ave	1.222	1.362		22.3	20.0	11.4	30.0
Hexachlorobutadiene	Ave	0.4964	0.4944		19.9	20.0	-0.4	30.0
Naphthalene	Ave	5.240	5.017		19.1	20.0	-4.3	30.0
1,2,3-Trichlorobenzene	Ave	1.413	1.333		18.9	20.0	-5.6	30.0
2-Methylnaphthalene	Ave	2.960	3.044		20.6	20.0	2.9	30.0
Dibromofluoromethane (Surr)	Ave	0.2375	0.2368		49.9	50.0	-0.3	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0603	0.0614		50.9	50.0	1.8	30.0
Toluene-d8 (Surr)	Ave	1.303	1.315		50.4	50.0	0.9	30.0
4-Bromofluorobenzene (Surr)	Ave	0.5111	0.5130		50.2	50.0	0.4	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X19.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 25-Mar-2024 19:47:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0109476-020
Misc. Info.: ICV LG
Operator ID: knk41612 Instrument ID: 9355
Sublist:

Method: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 25-Mar-2024 22:27:12 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1656

First Level Reviewer: K4WN Date: 25-Mar-2024 22:20:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.859	1.852	0.007	99	122804	20.0	16.2	
4 Chloromethane	50	2.045	2.038	0.007	99	137364	20.0	16.9	
6 Vinyl chloride	62	2.152	2.138	0.014	98	131213	20.0	17.5	
5 Butadiene	39	2.159	2.145	0.014	93	119619	20.0	16.4	
8 Bromomethane	94	2.467	2.460	0.007	90	89355	20.0	17.5	
9 Chloroethane	64	2.538	2.531	0.007	99	68431	20.0	19.3	
10 Dichlorofluoromethane	67	2.767	2.753	0.014	97	181030	20.0	17.2	
11 Trichlorofluoromethane	101	2.839	2.831	0.008	86	141293	20.0	18.4	
12 Pentane	43	2.853	2.846	0.007	97	106563	20.0	17.1	
14 Ethyl ether	59	3.053	3.046	0.007	91	69514	20.0	21.5	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.117	3.125	-0.008	92	98434	20.0	20.0	
16 Acrolein	56	3.196	3.189	0.007	99	237351	150.0	141.2	
17 1,1-Dichloroethene	96	3.346	3.339	0.007	97	67218	20.0	20.2	
18 Acetone	58	3.353	3.346	0.007	100	195085	250.0	219.4	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.389	3.382	0.007	92	71754	20.0	16.8	
20 Isopropyl alcohol	45	3.511	3.496	0.015	96	100746	150.0	125.6	
21 Iodomethane	142	3.539	3.525	0.014	98	131337	20.0	18.6	
22 Carbon disulfide	76	3.654	3.639	0.015	99	228319	20.0	17.9	
24 Methyl acetate	43	3.754	3.747	0.007	97	113203	20.0	22.7	
25 3-Chloro-1-propene	41	3.790	3.782	0.008	89	96106	20.0	16.5	
* 26 t-Butyl alcohol-d10 (IS)	65	3.954	3.940	0.014	97	404413	250.0	250.0	M
27 Methylene Chloride	84	3.968	3.954	0.014	92	79629	20.0	19.8	
28 2-Methyl-2-propanol	59	4.076	4.068	0.008	99	255688	200.0	152.2	M
29 Acrylonitrile	53	4.261	4.247	0.014	99	267517	100.0	98.7	
30 Methyl tert-butyl ether	73	4.354	4.347	0.007	97	274376	20.0	18.1	
31 trans-1,2-Dichloroethene	96	4.369	4.362	0.007	99	68547	20.0	19.4	
33 Hexane	57	4.805	4.791	0.014	93	93998	20.0	18.5	
34 1,1-Dichloroethane	63	5.027	5.019	0.007	96	126150	20.0	19.7	
36 Isopropyl ether	45	5.091	5.077	0.014	94	239202	20.0	18.6	
37 2-Chloro-1,3-butadiene	53	5.141	5.134	0.007	92	106455	20.0	19.0	

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	5.634	5.634	0.000	99	257711	20.0	18.7	
40 2-Butanone (MEK)	43	5.827	5.820	0.007	100	946851	250.0	213.7	
41 cis-1,2-Dichloroethene	96	5.870	5.856	0.014	82	81537	20.0	19.5	
42 2,2-Dichloropropane	77	5.892	5.892	0.000	76	131424	20.0	19.4	
43 Propionitrile	54	5.899	5.892	0.007	94	202688	150.0	139.8	
45 Methyl acrylate	55	5.985	5.970	0.015	100	119555	20.0	19.7	M
46 Methacrylonitrile	67	6.128	6.121	0.007	91	408375	150.0	146.3	
48 Chlorobromomethane	128	6.213	6.199	0.014	91	42237	20.0	19.8	
49 Tetrahydrofuran	71	6.221	6.221	0.000	91	109957	100.0	85.4	
51 Chloroform	83	6.356	6.349	0.007	94	152629	20.0	19.4	
$ 52 Dibromofluoromethane (Surr)	113	6.578	6.578	0.000	93	192130	50.0	49.9	
53 1,1,1-Trichloroethane	97	6.600	6.592	0.008	98	126712	20.0	19.4	
54 Cyclohexane	56	6.714	6.707	0.007	91	131048	20.0	18.2	
55 1,1-Dichloropropene	75	6.814	6.814	0.000	94	97105	20.0	19.5	
56 Carbon tetrachloride	117	6.821	6.814	0.007	97	97774	20.0	18.6	
57 Isobutyl alcohol	41	6.943	6.943	0.000	94	210267	500.0	397.6	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.043	7.036	0.007	93	49807	50.0	50.9	
59 Benzene	78	7.079	7.072	0.007	97	303779	20.0	19.4	
60 1,2-Dichloroethane	62	7.150	7.143	0.007	97	108786	20.0	19.3	
62 Tert-amyl methyl ether	73	7.272	7.272	0.000	98	255480	20.0	18.3	
* 63 Fluorobenzene (IS)	96	7.486	7.486	0.000	99	811297	50.0	50.0	
64 n-Heptane	43	7.515	7.508	0.007	92	99142	20.0	17.3	
66 n-Butanol	56	7.837	7.837	0.000	89	313093	1000.0	797.3	M
67 Trichloroethene	95	7.980	7.980	0.000	99	78030	20.0	19.4	
68 Ethyl acrylate	55	8.087	8.087	0.000	99	153057	20.0	22.3	
69 Methylcyclohexane	83	8.301	8.301	0.000	90	136551	20.0	18.6	
70 1,2-Dichloropropane	63	8.316	8.309	0.007	79	79592	20.0	19.3	
71 2-ethoxy-2-methyl butane	87	8.323	8.323	0.000	91	114785	20.0	17.0	
72 Methyl methacrylate	69	8.394	8.387	0.007	89	78281	20.0	17.8	
73 1,4-Dioxane	88	8.409	8.402	0.007	45	56564	500.0	426.3	M
74 Dibromomethane	93	8.423	8.423	0.000	97	55223	20.0	18.9	
76 Dichlorobromomethane	83	8.659	8.659	0.000	99	94824	20.0	18.4	
77 2-Nitropropane	41	8.909	8.902	0.007	99	37175	20.0	15.0	
78 2-Chloroethyl vinyl ether	63	9.031	9.024	0.007	92	51453	20.0	16.3	
79 cis-1,3-Dichloropropene	75	9.224	9.224	0.000	95	113599	20.0	17.5	
80 4-Methyl-2-pentanone (MIBK)	43	9.388	9.388	0.000	97	1981230	250.0	229.0	
$ 81 Toluene-d8 (Surr)	98	9.545	9.546	-0.001	93	806651	50.0	50.4	
82 Toluene	92	9.624	9.624	0.000	98	191869	20.0	18.9	
83 trans-1,3-Dichloropropene	75	9.889	9.889	0.000	94	110924	20.0	18.3	
84 Ethyl methacrylate	69	9.953	9.953	0.000	89	137436	20.0	17.8	
126 1,1,2-Trichloroethane	97	10.096	10.096	0.000	90	76834	20.0	18.6	
127 Tetrachloroethene	166	10.196	10.196	0.000	97	83867	20.0	19.3	
128 1,3-Dichloropropane	76	10.268	10.261	0.007	91	122053	20.0	18.4	
129 2-Hexanone	43	10.311	10.311	0.000	96	1381684	250.0	219.2	
132 Chlorodibromomethane	129	10.489	10.489	0.000	89	76538	20.0	17.9	
133 Ethylene Dibromide	107	10.604	10.604	0.000	99	82197	20.0	18.8	
* 134 Chlorobenzene-d5 (IS)	117	11.040	11.040	0.000	85	613534	50.0	50.0	
135 1-Chlorohexane	91	11.054	11.054	0.000	97	99427	20.0	17.7	
136 Chlorobenzene	112	11.068	11.069	-0.001	95	216704	20.0	18.5	
137 1,1,1,2-Tetrachloroethane	131	11.154	11.154	0.000	94	86943	20.0	18.8	
138 Ethylbenzene	91	11.161	11.154	0.007	98	395058	20.0	18.8	
140 m-Xylene & p-Xylene	106	11.276	11.276	0.000	99	307788	40.0	37.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
141 n-Butyl acrylate	55	11.555	11.555	0.000	97	218433	20.0	22.1	
142 o-Xylene	106	11.605	11.605	0.000	97	163808	20.0	18.6	
143 Styrene	104	11.626	11.626	0.000	95	260627	20.0	18.6	
144 Bromoform	173	11.783	11.784	-0.001	96	61806	20.0	17.1	
145 Isopropylbenzene	105	11.912	11.912	0.000	96	442097	20.0	20.3	
147 Cyclohexanone	55	11.977	11.977	0.000	93	207838	500.0	313.5	
$ 148 4-Bromofluorobenzene (Surr)	95	12.062	12.062	0.000	90	314720	50.0	50.2	
149 1,1,2,2-Tetrachloroethane	83	12.155	12.155	0.000	93	153132	20.0	18.2	
150 Bromobenzene	156	12.177	12.177	0.000	92	105046	20.0	18.8	
151 trans-1,4-Dichloro-2-butene	53	12.177	12.177	0.000	92	214944	100.0	94.1	
152 1,2,3-Trichloropropane	110	12.205	12.198	0.007	84	47006	20.0	18.2	
153 N-Propylbenzene	91	12.248	12.248	0.000	99	507639	20.0	19.6	
154 2-Chlorotoluene	126	12.320	12.320	0.000	96	102307	20.0	18.4	
155 1,3,5-Trimethylbenzene	105	12.384	12.384	0.000	93	388899	20.0	19.3	
156 4-Chlorotoluene	126	12.413	12.413	0.000	98	100752	20.0	18.9	
158 tert-Butylbenzene	134	12.627	12.627	0.000	93	70990	20.0	18.8	
160 1,2,4-Trimethylbenzene	105	12.670	12.670	0.000	98	397172	20.0	18.9	
161 sec-Butylbenzene	105	12.792	12.792	0.000	94	489381	20.0	19.2	
162 1,3-Dichlorobenzene	146	12.892	12.892	0.000	98	209465	20.0	18.7	
163 4-Isopropyltoluene	119	12.899	12.899	0.000	97	430853	20.0	18.9	
* 164 1,4-Dichlorobenzene-d4	152	12.949	12.949	0.000	95	366961	50.0	50.0	
165 1,4-Dichlorobenzene	146	12.970	12.963	0.007	95	218409	20.0	18.8	
166 1,2,3-Trimethylbenzene	105	12.978	12.978	0.000	98	408202	20.0	18.0	
167 Benzyl chloride	91	13.042	13.035	0.007	99	299629	20.0	17.5	
168 1,3-Diethylbenzene	119	13.099	13.099	0.000	95	258357	20.0	19.0	
169 p-Diethylbenzene	119	13.178	13.178	0.000	93	275835	20.0	19.4	
170 n-Butylbenzene	92	13.192	13.192	0.000	97	216105	20.0	18.9	
171 1,2-Dichlorobenzene	146	13.221	13.221	0.000	98	224734	20.0	18.5	
172 o-diethylbenzene	119	13.249	13.249	0.000	95	215174	20.0	18.7	
175 1,2-Dibromo-3-Chloropropane	75	13.764	13.764	0.000	86	46147	20.0	17.0	
176 1,3,5-Trichlorobenzene	180	13.900	13.900	0.000	98	183702	20.0	18.7	
177 1,2,4-Trichlorobenzene	180	14.322	14.322	0.000	94	192797	20.0	19.1	
178 2-Ethylhexyl acrylate	55	14.379	14.379	0.000	81	199905	20.0	22.3	
179 Hexachlorobutadiene	225	14.408	14.408	0.000	97	72571	20.0	19.9	
180 Naphthalene	128	14.501	14.501	0.000	97	736424	20.0	19.1	
181 1,2,3-Trichlorobenzene	180	14.644	14.644	0.000	96	195727	20.0	18.9	
182 2-Methylnaphthalene	142	15.259	15.259	-0.001	92	446862	20.0	20.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00159	Amount Added:	50.00	Units: uL	
MSV_LCS_CYC_00008	Amount Added:	50.00	Units: uL	
MSV_LCS_Gases_00190	Amount Added:	50.00	Units: uL	
MSV_LCS_ACROL_00160	Amount Added:	50.00	Units: uL	
MSV_LCS_2CEVE_00164	Amount Added:	50.00	Units: uL	
MSV_LCS_EE_00008	Amount Added:	50.00	Units: uL	
MSV_LCS_OH_Sp_00011	Amount Added:	50.00	Units: uL	
MSV_HP20_ISSS_00129	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 25-Mar-2024 22:27:17 Chrom Revision: 2.3 20-Mar-2024 17:23:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X19.D

Injection Date: 25-Mar-2024 19:47:30 Instrument ID: 9355 Operator ID: knk41612

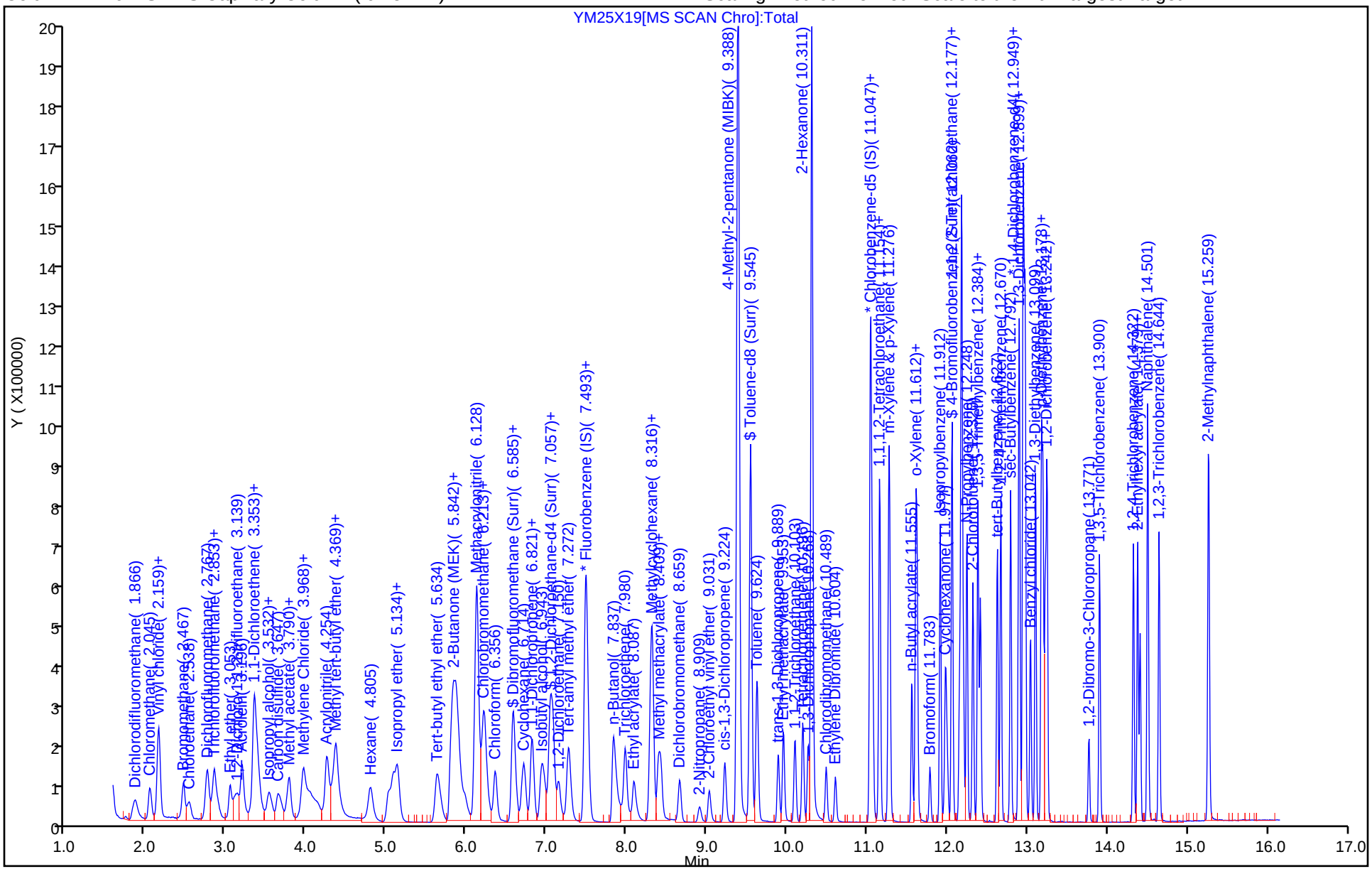
Lims ID: ICV Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 19

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

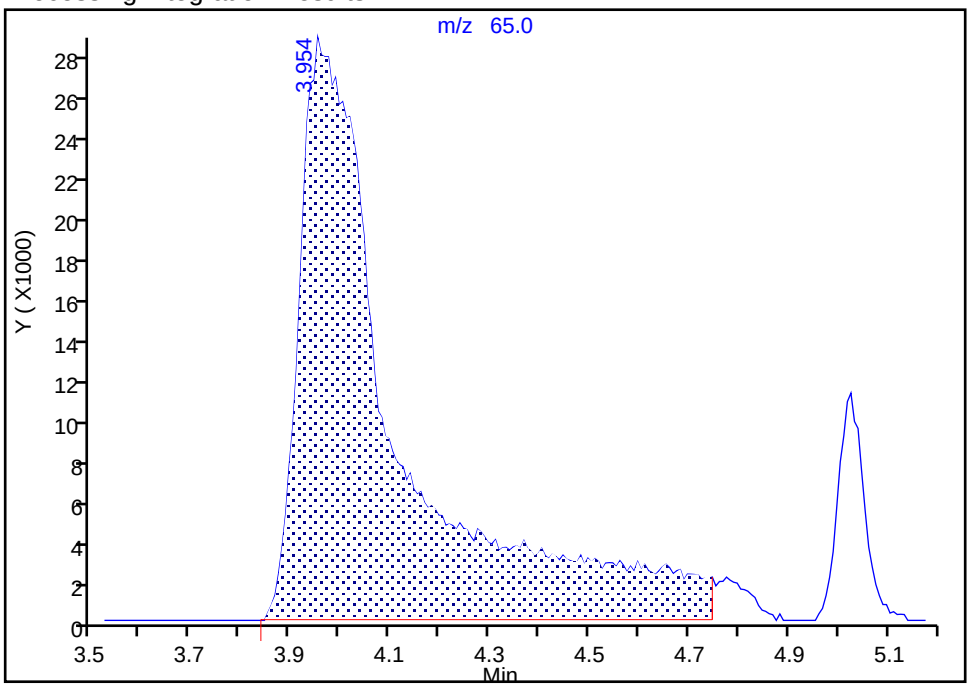
Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X19.D
Injection Date: 25-Mar-2024 19:47:30 Instrument ID: 9355
Lims ID: ICV
Client ID:
Operator ID: knk41612 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 26 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

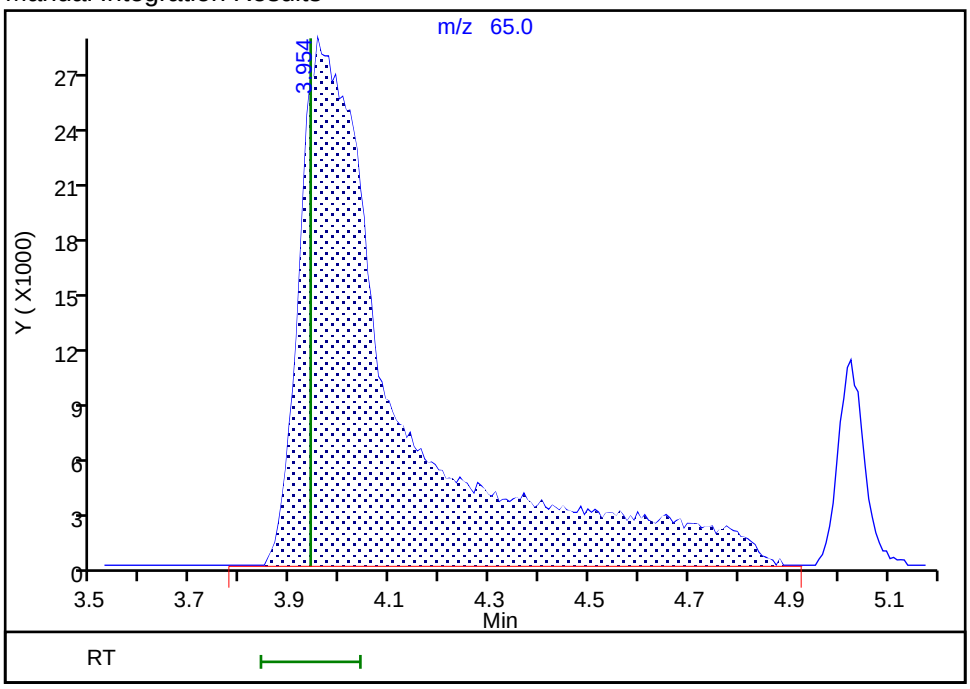
Processing Integration Results

RT: 3.95
Area: 394651
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 3.95
Area: 404413
Amount: 250.0000
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 22:17:55 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

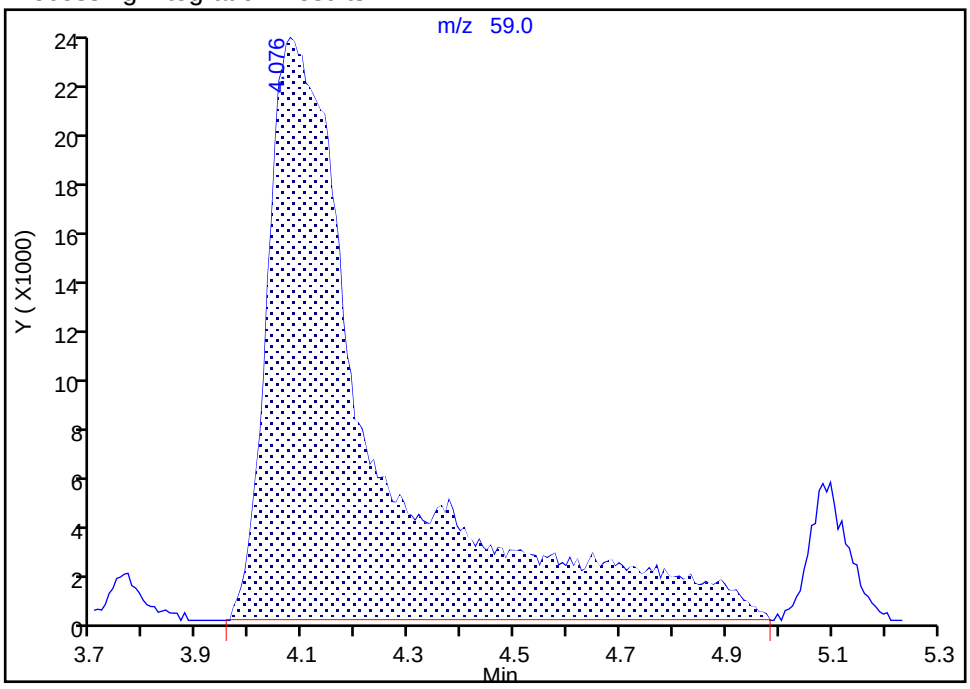
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X19.D				
Injection Date:	25-Mar-2024 19:47:30	Instrument ID:	9355		
Lims ID:	ICV				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

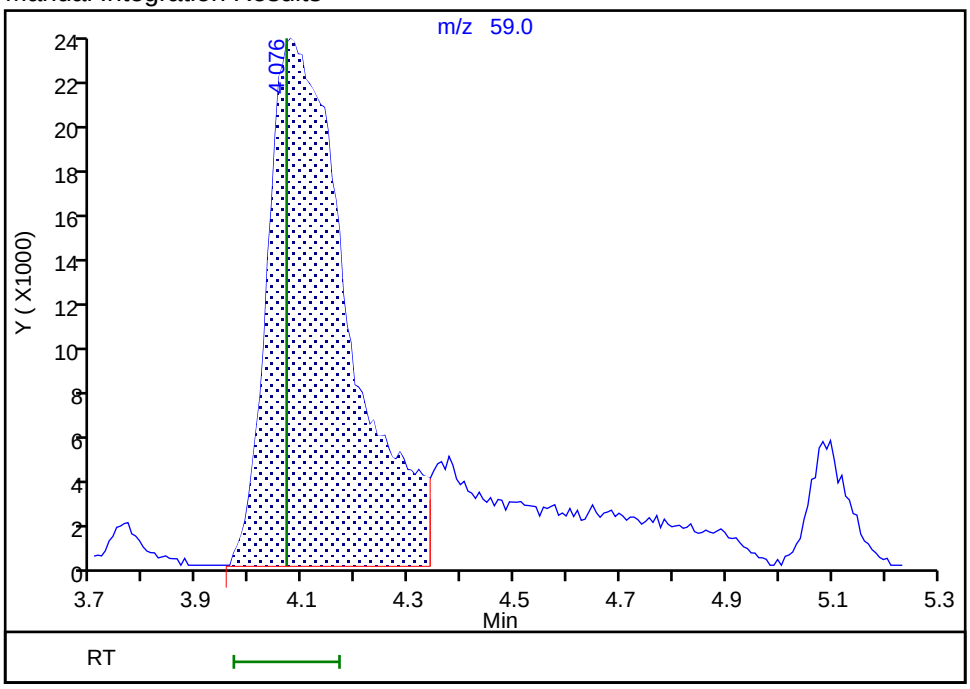
Processing Integration Results

RT: 4.08
Area: 344181
Amount: 204.8694
Amount Units: ug/l



Manual Integration Results

RT: 4.08
Area: 255688
Amount: 152.1950
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 22:18:01 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

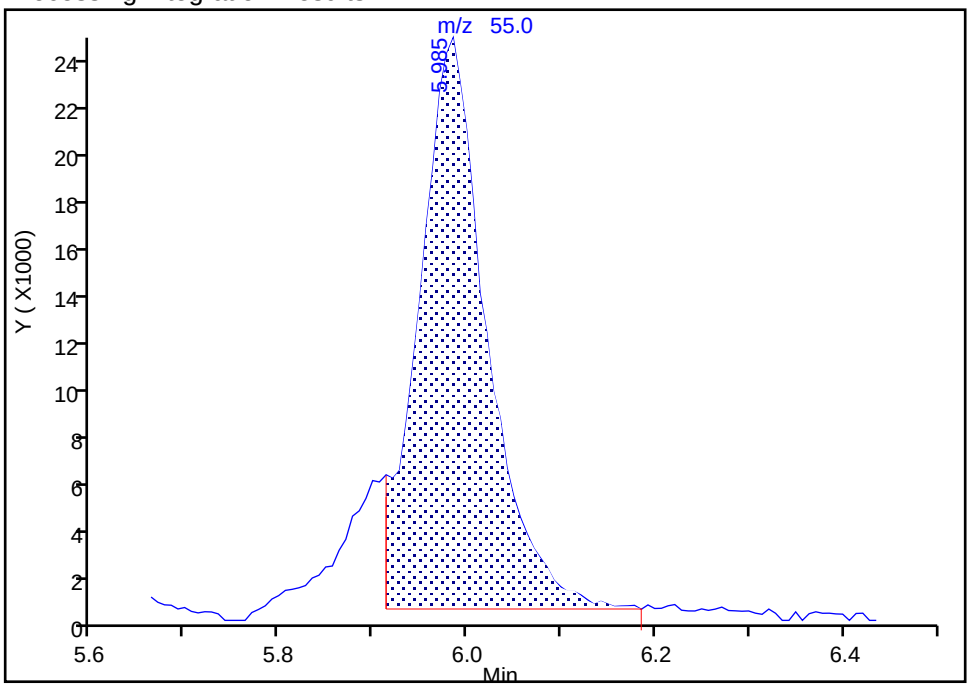
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X19.D				
Injection Date:	25-Mar-2024 19:47:30	Instrument ID:	9355		
Lims ID:	ICV				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

45 Methyl acrylate, CAS: 96-33-3

Signal: 1

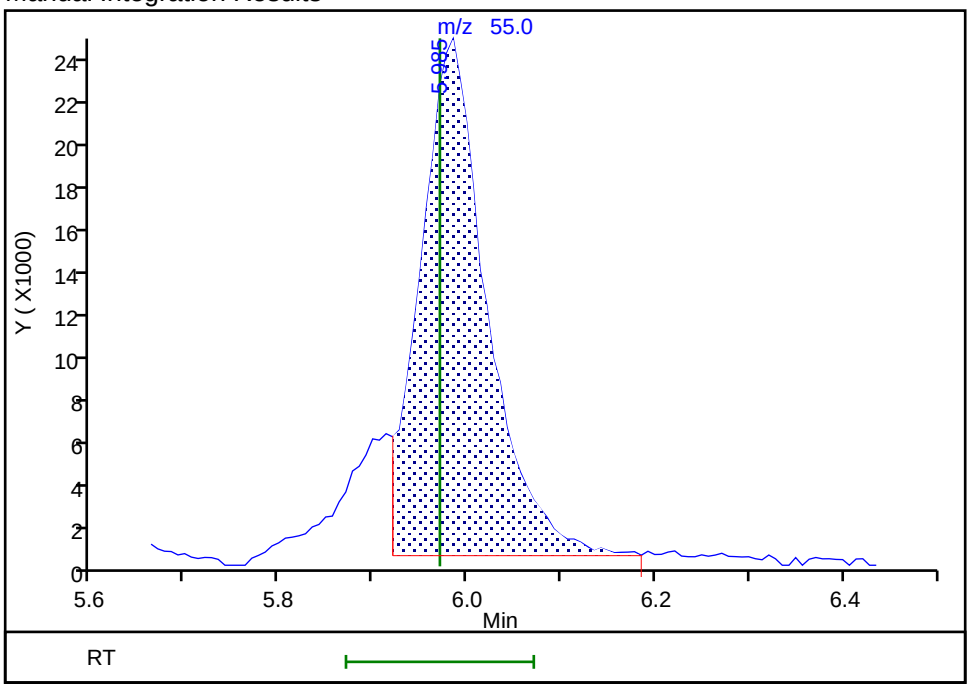
Processing Integration Results

RT: 5.98
Area: 121985
Amount: 20.122208
Amount Units: ug/l



Manual Integration Results

RT: 5.98
Area: 119555
Amount: 19.721364
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 22:18:14 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

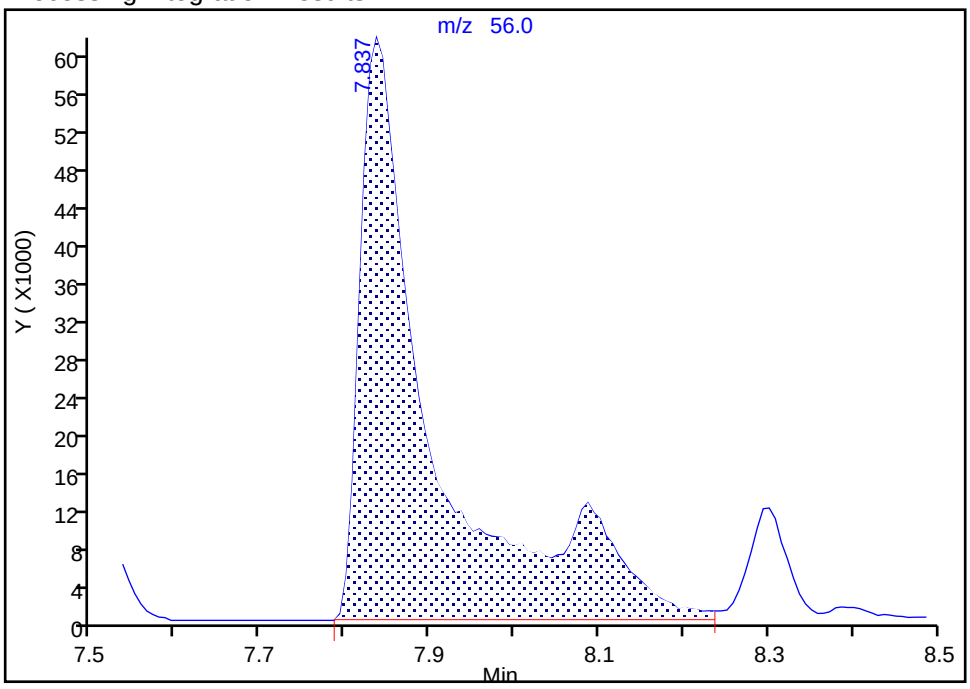
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X19.D				
Injection Date:	25-Mar-2024 19:47:30	Instrument ID:	9355		
Lims ID:	ICV				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

66 n-Butanol, CAS: 71-36-3

Signal: 1

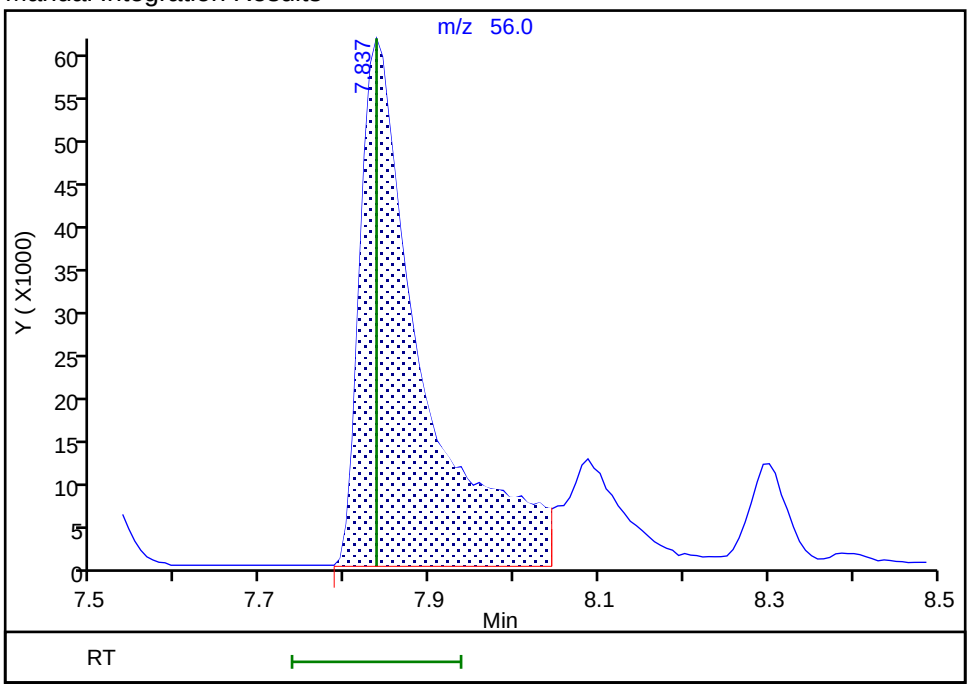
Processing Integration Results

RT: 7.84
Area: 374143
Amount: 952.7996
Amount Units: ug/l



Manual Integration Results

RT: 7.84
Area: 313093
Amount: 797.3286
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 22:18:25 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

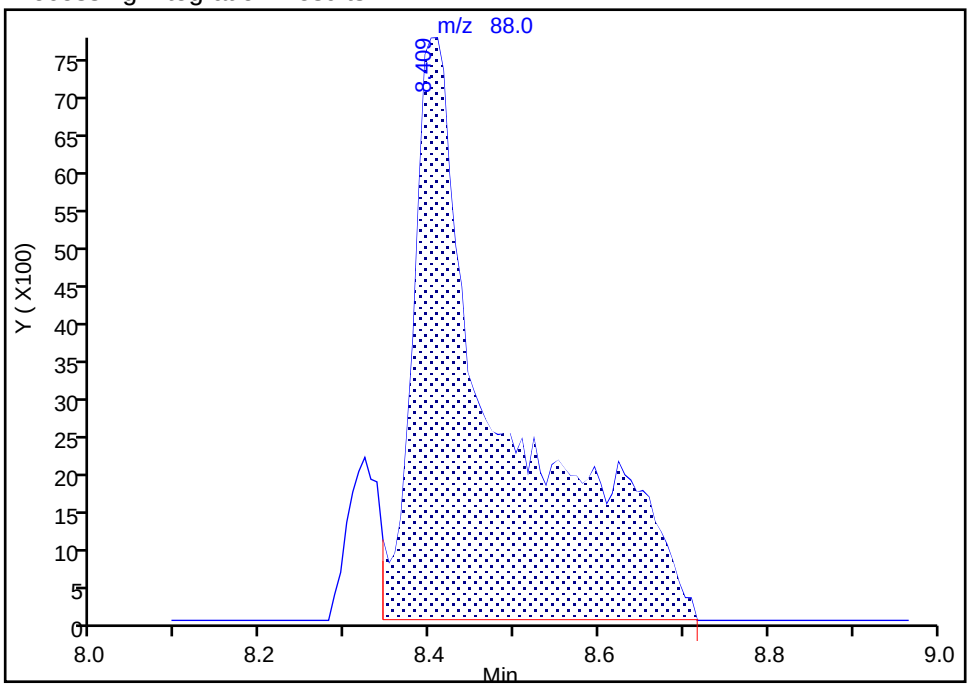
Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X19.D				
Injection Date:	25-Mar-2024 19:47:30	Instrument ID:	9355		
Lims ID:	ICV				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

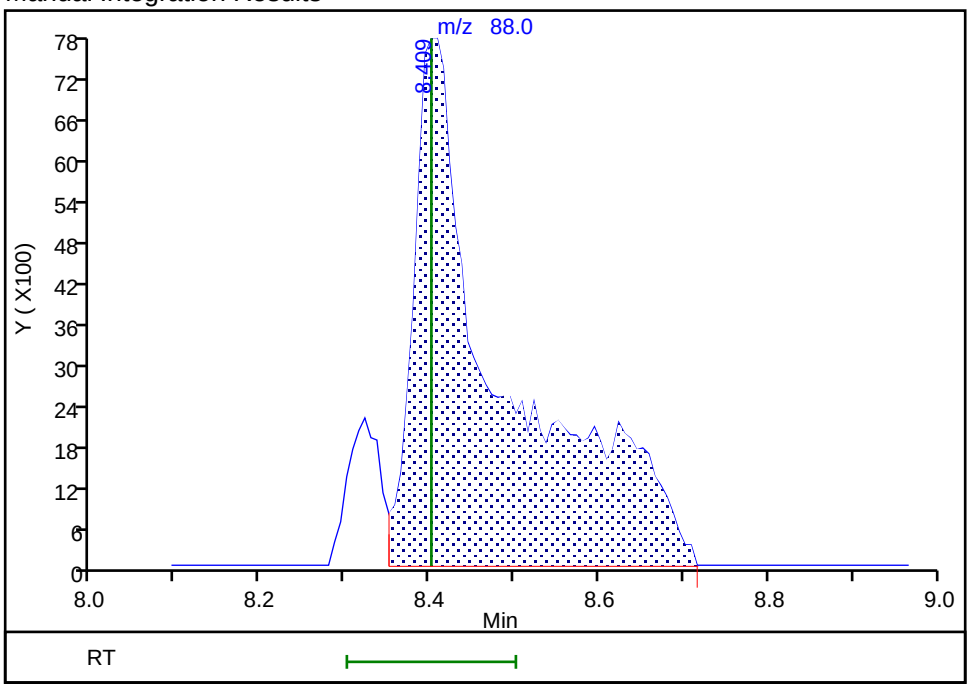
Processing Integration Results

RT: 8.41
Area: 57020
Amount: 429.7295
Amount Units: ug/l



Manual Integration Results

RT: 8.41
Area: 56564
Amount: 426.2929
Amount Units: ug/l



Reviewer: K4WN, 25-Mar-2024 22:18:36 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Lab Sample ID: CCVIS 410-525820/3 Calibration Date: 07/08/2024 20:55

Instrument ID: 9355 Calib Start Date: 03/25/2024 16:50

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/25/2024 20:33

Lab File ID: YL08X32.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	0.4676	0.4004	0.1000	42.8	50.0	-14.4	20.0
Chloromethane	Ave	0.5002	0.3733	0.1000	37.3	50.0	-25.4*	20.0
Vinyl chloride	Ave	0.4632	0.3598	0.1000	38.8	50.0	-22.3*	20.0
1,3-Butadiene	Ave	0.4482	0.5642		62.9	50.0	25.9*	20.0
Bromomethane	Ave	0.3141	0.2670	0.1000	42.5	50.0	-15.0	20.0
Chloroethane	Ave	0.2180	0.2060	0.1000	47.2	50.0	-5.5	20.0
Dichlorofluoromethane	Ave	0.6498	0.5695		43.8	50.0	-12.4	20.0
Trichlorofluoromethane	Ave	0.4738	0.4782	0.1000	50.5	50.0	0.9	20.0
n-Pentane	Ave	0.3829	0.3396		44.3	50.0	-11.3	20.0
Freon 123a	Ave	0.3041	0.2822		46.4	50.0	-7.2	20.0
Acrolein	Ave	1.039	0.9861		476	501	-5.1	20.0
Acetone	Ave	0.5495	0.5558	0.1000	101	100	1.1	20.0
1,1-Dichloroethene	Ave	0.2053	0.2149	0.1000	52.3	50.0	4.7	20.0
Freon 113	Ave	0.2627	0.2551	0.1000	48.6	50.0	-2.9	20.0
2-Propanol	Ave	0.4957	0.4481		226	250	-9.6	20.0
Methyl iodide	Ave	0.4358	0.4227		48.5	50.0	-3.0	20.0
Carbon disulfide	Ave	0.7879	0.8405	0.1000	53.3	50.0	6.7	20.0
Methyl acetate	Ave	0.3070	0.2750	0.1000	44.8	50.0	-10.4	20.0
Allyl chloride	Ave	0.3586	0.3265		45.5	50.0	-8.9	20.0
Methylene Chloride	Ave	0.2482	0.2672	0.1000	53.8	50.0	7.7	20.0
t-Butyl alcohol	Ave	1.039	0.8543		206	250	-17.7	20.0
Acrylonitrile	Ave	0.1670	0.1742		130	125	4.3	20.0
Methyl tert-butyl ether	Ave	0.9345	0.8573	0.1000	45.9	50.0	-8.3	20.0
trans-1,2-Dichloroethene	Ave	0.2181	0.2315	0.1000	53.1	50.0	6.1	20.0
n-Hexane	Ave	0.3135	0.3383		53.9	50.0	7.9	20.0
1,1-Dichloroethane	Ave	0.3943	0.4183	0.2000	53.0	50.0	6.1	20.0
Isopropyl ether	Ave	0.7916	0.7204		45.5	50.0	-9.0	20.0
2-Chloro-1,3-butadiene	Ave	0.3457	0.3562		51.5	50.0	3.0	20.0
Ethyl t-butyl ether	Ave	0.8484	0.7625		44.9	50.0	-10.1	20.0
2-Butanone (MEK)	Ave	0.2731	0.2196	0.1000	80.4	100	-19.6	20.0
cis-1,2-Dichloroethene	Ave	0.2574	0.2629	0.1000	51.1	50.0	2.1	20.0
2,2-Dichloropropane	Ave	0.4166	0.4097		49.2	50.0	-1.7	20.0
Propionitrile	Ave	0.8965	0.9181		256	250	2.4	20.0
Methacrylonitrile	Ave	0.1720	0.1727		125	125	0.4	20.0
Bromochloromethane	Ave	0.1312	0.1324		50.5	50.0	0.9	20.0
Tetrahydrofuran	Ave	0.7957	0.8104		255	250	1.8	20.0
Chloroform	Lin1		0.4236	0.2000	48.2	50.0	-3.7	20.0
1,1,1-Trichloroethane	Ave	0.4030	0.3961	0.1000	49.1	50.0	-1.7	20.0
Cyclohexane	Ave	0.4436	0.4564	0.1000	51.4	50.0	2.9	20.0
1,1-Dichloropropene	Ave	0.3062	0.3211		52.4	50.0	4.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Lab Sample ID: CCVIS 410-525820/3 Calibration Date: 07/08/2024 20:55

Instrument ID: 9355 Calib Start Date: 03/25/2024 16:50

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/25/2024 20:33

Lab File ID: YL08X32.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon tetrachloride	Ave	0.3232	0.3396	0.1000	52.5	50.0	5.1	20.0
Isobutyl alcohol	Ave	0.3269	0.2888		552	625	-11.7	20.0
Benzene	Ave	0.9642	0.9870	0.5000	51.2	50.0	2.4	20.0
1,2-Dichloroethane	Ave	0.3477	0.3588	0.1000	51.6	50.0	3.2	20.0
t-Amyl methyl ether	Ave	0.8597	0.7680		44.7	50.0	-10.7	20.0
n-Heptane	Ave	0.3541	0.3669		51.8	50.0	3.6	20.0
n-Butanol	Ave	0.2427	0.2381		613	625	-1.9	20.0
Trichloroethene	Ave	0.2477	0.2459	0.2000	49.6	50.0	-0.7	20.0
Methylcyclohexane	Ave	0.4528	0.4997	0.1000	55.2	50.0	10.4	20.0
1,2-Dichloropropane	Ave	0.2540	0.2555	0.1000	50.3	50.0	0.6	20.0
t-Amyl ethyl ether	Ave	0.4166	0.3756		45.1	50.0	-9.8	20.0
1,4-Dioxane	Ave	0.0820	0.0781	0.0050	595	625	-4.7	20.0
Methyl methacrylate	Ave	0.2711	0.2501		46.1	50.0	-7.8	20.0
Dibromomethane	Ave	0.1802	0.1748		48.5	50.0	-3.0	20.0
Bromodichloromethane	Ave	0.3171	0.3221	0.2000	50.8	50.0	1.6	20.0
2-Nitropropane	Ave	1.534	1.448		236	250	-5.6	20.0
2-Chloroethyl vinyl ether	Ave	0.1943	0.1839		47.3	50.0	-5.4	20.0
cis-1,3-Dichloropropene	Ave	0.3996	0.3884	0.2000	48.6	50.0	-2.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.5332	0.4540	0.1000	85.2	100	-14.8	20.0
Toluene	Ave	0.8278	0.8666	0.4000	52.3	50.0	4.7	20.0
trans-1,3-Dichloropropene	Ave	0.4935	0.4818	0.1000	48.8	50.0	-2.4	20.0
Ethyl methacrylate	Ave	0.6289	0.5972		47.5	50.0	-5.1	20.0
1,1,2-Trichloroethane	Ave	0.3374	0.3209	0.1000	47.5	50.0	-4.9	20.0
Tetrachloroethene	Ave	0.3537	0.3413	0.2000	48.2	50.0	-3.5	20.0
1,3-Dichloropropane	Ave	0.5396	0.5459		50.6	50.0	1.2	20.0
2-Hexanone	Ave	0.5137	0.4432	0.1000	86.3	100	-13.7	20.0
Dibromochloromethane	Ave	0.3493	0.3450		49.4	50.0	-1.2	20.0
1,2-Dibromoethane (EDB)	Ave	0.3557	0.3513	0.1000	49.4	50.0	-1.2	20.0
1-Chlorohexane	Ave	0.4576	0.4481		49.0	50.0	-2.1	20.0
Chlorobenzene	Ave	0.9522	0.9581	0.5000	50.3	50.0	0.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3768	0.3694		49.0	50.0	-1.9	20.0
Ethylbenzene	Ave	1.713	1.693	0.1000	49.4	50.0	-1.2	20.0
m&p-Xylene	Ave	0.6732	0.6655	0.1000	98.9	100	-1.1	20.0
o-Xylene	Ave	0.7161	0.6887	0.3000	48.1	50.0	-3.8	20.0
Styrene	Ave	1.140	1.106	0.3000	48.6	50.0	-2.9	20.0
Bromoform	Ave	0.2951	0.2646	0.1000	44.8	50.0	-10.3	20.0
Isopropylbenzene	Ave	1.772	1.719	0.1000	48.5	50.0	-3.0	20.0
1,1,2,2-Tetrachloroethane	Ave	1.144	1.068	0.3000	46.6	50.0	-6.7	20.0
Bromobenzene	Ave	0.7597	0.7274		47.9	50.0	-4.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3111	0.1104		44.3	125	-64.5*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Lab Sample ID: CCVIS 410-525820/3 Calibration Date: 07/08/2024 20:55

Instrument ID: 9355 Calib Start Date: 03/25/2024 16:50

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/25/2024 20:33

Lab File ID: YL08X32.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
1,2,3-Trichloropropane	Ave	0.3524	0.3365		47.7	50.0	-4.5	20.0
N-Propylbenzene	Ave	3.521	3.640		51.7	50.0	3.4	20.0
2-Chlorotoluene	Ave	0.7585	0.7391		48.7	50.0	-2.6	20.0
1,3,5-Trimethylbenzene	Ave	2.749	2.756		50.1	50.0	0.2	20.0
4-Chlorotoluene	Ave	0.7280	0.7209		49.5	50.0	-1.0	20.0
tert-Butylbenzene	Ave	0.5143	0.5450		53.0	50.0	6.0	20.0
1,2,4-Trimethylbenzene	Ave	2.867	2.858		49.8	50.0	-0.3	20.0
sec-Butylbenzene	Ave	3.471	3.616		52.1	50.0	4.2	20.0
1,3-Dichlorobenzene	Ave	1.530	1.478	0.6000	48.3	50.0	-3.4	20.0
p-Isopropyltoluene	Ave	3.106	3.193		51.4	50.0	2.8	20.0
1,4-Dichlorobenzene	Ave	1.581	1.514	0.5000	47.9	50.0	-4.3	20.0
1,2,3-Trimethylbenzene	Ave	3.089	3.056		49.5	50.0	-1.1	20.0
Benzyl chloride	Ave	2.327	2.322		49.9	50.0	-0.2	20.0
1,3-Diethylbenzene	Ave	1.851	1.863		50.3	50.0	0.6	20.0
1,4-Diethylbenzene	Ave	1.941	1.961		50.5	50.0	1.0	20.0
n-Butylbenzene	Ave	1.558	1.630		52.3	50.0	4.6	20.0
1,2-Dichlorobenzene	Ave	1.657	1.514	0.4000	45.7	50.0	-8.6	20.0
1,2-Diethylbenzene	Ave	1.565	1.580		50.5	50.0	0.9	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.3702	0.3388	0.0500	45.8	50.0	-8.5	20.0
1,3,5-Trichlorobenzene	Ave	1.335	1.218		45.6	50.0	-8.8	20.0
1,2,4-Trichlorobenzene	Ave	1.378	1.198	0.2000	43.5	50.0	-13.0	20.0
Hexachlorobutadiene	Ave	0.4964	0.4852		48.9	50.0	-2.2	20.0
Naphthalene	Ave	5.240	4.365		41.6	50.0	-16.7	20.0
1,2,3-Trichlorobenzene	Ave	1.413	1.188		42.0	50.0	-16.0	20.0
2-Methylnaphthalene	Ave	2.960	2.128		35.9	50.0	-28.1*	20.0
Dibromofluoromethane (Surr)	Ave	0.2375	0.2395		50.4	50.0	0.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0603	0.0607		50.3	50.0	0.6	20.0
Toluene-d8 (Surr)	Ave	1.303	1.377		52.8	50.0	5.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5111	0.5006		49.0	50.0	-2.1	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X32.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 08-Jul-2024 20:55:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118782-003
Misc. Info.: CCVIS
Operator ID: MEC29284 Instrument ID: 9355
Sublist: chrom-MSVoa_9355*sub46

Method: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2024 21:29:18 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1691

First Level Reviewer: K4WN Date: 08-Jul-2024 21:27:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.866	1.866	0.000	99	334323	50.0	42.8	
4 Chloromethane	50	2.059	2.059	0.000	99	311683	50.0	37.3	
6 Vinyl chloride	62	2.152	2.152	0.000	98	300365	50.0	38.8	
5 Butadiene	39	2.174	2.174	0.000	90	471030	50.0	62.9	
8 Bromomethane	94	2.481	2.481	0.000	92	222946	50.0	42.5	
9 Chloroethane	64	2.560	2.560	0.000	100	171974	50.0	47.2	
10 Dichlorofluoromethane	67	2.781	2.781	0.000	97	475488	50.0	43.8	
11 Trichlorofluoromethane	101	2.846	2.846	0.000	96	399233	50.0	50.5	
12 Pentane	43	2.867	2.867	0.000	96	283504	50.0	44.3	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.146	3.146	0.000	92	235643	50.0	46.4	
16 Acrolein	56	3.203	3.203	0.000	99	708680	501.1	475.5	
18 Acetone	58	3.346	3.346	0.000	81	79709	100.0	101.1	
17 1,1-Dichloroethene	96	3.361	3.361	0.000	98	179397	50.0	52.3	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.396	3.396	0.000	94	213007	50.0	48.6	
20 Isopropyl alcohol	45	3.504	3.504	0.000	96	160664	250.0	226.0	
21 Iodomethane	142	3.561	3.561	0.000	98	352892	50.0	48.5	
22 Carbon disulfide	76	3.682	3.682	0.000	99	701731	50.0	53.3	
24 Methyl acetate	43	3.747	3.747	0.000	97	229621	50.0	44.8	
25 3-Chloro-1-propene	41	3.790	3.790	0.000	89	272583	50.0	45.5	
* 26 t-Butyl alcohol-d10 (IS)	65	3.968	3.968	0.000	97	358539	250.0	250.0	
27 Methylene Chloride	84	3.975	3.975	0.000	92	223095	50.0	53.8	
28 2-Methyl-2-propanol	59	4.090	4.090	0.000	98	306295	250.0	205.6	
29 Acrylonitrile	53	4.254	4.254	0.000	99	363516	125.0	130.4	
30 Methyl tert-butyl ether	73	4.347	4.347	0.000	95	715712	50.0	45.9	
31 trans-1,2-Dichloroethene	96	4.369	4.369	0.000	98	193301	50.0	53.1	
33 Hexane	57	4.798	4.798	0.000	92	282409	50.0	53.9	
34 1,1-Dichloroethane	63	5.019	5.019	0.000	96	349206	50.0	53.0	
36 Isopropyl ether	45	5.091	5.091	0.000	94	601431	50.0	45.5	
37 2-Chloro-1,3-butadiene	53	5.134	5.134	0.000	91	297348	50.0	51.5	
39 Tert-butyl ethyl ether	59	5.634	5.634	0.000	97	636627	50.0	44.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Butanone (MEK)	43	5.820	5.820	0.000	99	366602	100.0	80.4	
41 cis-1,2-Dichloroethene	96	5.863	5.863	0.000	83	219500	50.0	51.1	
42 2,2-Dichloropropane	77	5.885	5.885	0.000	87	342093	50.0	49.2	
43 Propionitrile	54	5.892	5.892	0.000	87	329157	250.0	256.0	
46 Methacrylonitrile	67	6.121	6.121	0.000	91	360461	125.0	125.5	
48 Chlorobromomethane	128	6.199	6.199	0.000	93	110507	50.0	50.5	
49 Tetrahydrofuran	71	6.213	6.213	0.000	87	290552	250.0	254.6	
51 Chloroform	83	6.349	6.349	0.000	93	353654	50.0	48.2	
$ 52 Dibromofluoromethane (Surr)	113	6.571	6.571	0.000	93	199962	50.0	50.4	
53 1,1,1-Trichloroethane	97	6.592	6.592	0.000	98	330693	50.0	49.1	
54 Cyclohexane	56	6.714	6.714	0.000	89	381001	50.0	51.4	
55 1,1-Dichloropropene	75	6.807	6.807	0.000	96	268056	50.0	52.4	
56 Carbon tetrachloride	117	6.821	6.821	0.000	83	283522	50.0	52.5	
57 Isobutyl alcohol	41	6.936	6.936	0.000	94	258829	625.0	552.1	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.029	7.029	0.000	96	50676	50.0	50.3	
59 Benzene	78	7.064	7.064	0.000	96	824037	50.0	51.2	
60 1,2-Dichloroethane	62	7.143	7.143	0.000	98	299546	50.0	51.6	
62 Tert-amyl methyl ether	73	7.272	7.272	0.000	99	641189	50.0	44.7	
* 63 Fluorobenzene (IS)	96	7.479	7.479	0.000	99	834887	50.0	50.0	
64 n-Heptane	43	7.508	7.508	0.000	90	306353	50.0	51.8	
66 n-Butanol	56	7.837	7.837	0.000	88	213412	625.0	613.0	
67 Trichloroethene	95	7.972	7.972	0.000	99	205320	50.0	49.6	
69 Methylcyclohexane	83	8.287	8.287	0.000	92	417196	50.0	55.2	
70 1,2-Dichloropropane	63	8.301	8.301	0.000	91	213343	50.0	50.3	
71 2-ethoxy-2-methyl butane	87	8.316	8.316	0.000	91	313604	50.0	45.1	
72 Methyl methacrylate	69	8.387	8.387	0.000	88	208767	50.0	46.1	
73 1,4-Dioxane	88	8.387	8.387	0.000	35	70049	625.0	595.5	M
74 Dibromomethane	93	8.416	8.416	0.000	97	145934	50.0	48.5	
76 Dichlorobromomethane	83	8.652	8.652	0.000	99	268915	50.0	50.8	
77 2-Nitropropane	41	8.895	8.895	0.000	98	519141	250.0	236.0	
78 2-Chloroethyl vinyl ether	63	9.016	9.016	0.000	92	153564	50.0	47.3	
79 cis-1,3-Dichloropropene	75	9.217	9.217	0.000	96	324232	50.0	48.6	
80 4-Methyl-2-pentanone (MIBK)	43	9.381	9.381	0.000	96	758133	100.0	85.2	
$ 81 Toluene-d8 (Surr)	98	9.538	9.538	0.000	93	825533	50.0	52.8	
82 Toluene	92	9.617	9.617	0.000	98	519589	50.0	52.3	
83 trans-1,3-Dichloropropene	75	9.882	9.882	0.000	93	288911	50.0	48.8	
84 Ethyl methacrylate	69	9.946	9.946	0.000	88	358070	50.0	47.5	
126 1,1,2-Trichloroethane	97	10.089	10.089	0.000	91	192403	50.0	47.5	
127 Tetrachloroethene	166	10.189	10.189	0.000	96	204623	50.0	48.2	
128 1,3-Dichloropropane	76	10.253	10.253	0.000	90	327297	50.0	50.6	
129 2-Hexanone	43	10.303	10.303	0.000	96	531478	100.0	86.3	
132 Chlorodibromomethane	129	10.482	10.482	0.000	91	206837	50.0	49.4	
133 Ethylene Dibromide	107	10.597	10.597	0.000	97	210619	50.0	49.4	
* 134 Chlorobenzene-d5 (IS)	117	11.033	11.033	0.000	86	599601	50.0	50.0	
135 1-Chlorohexane	91	11.047	11.047	0.000	98	268704	50.0	49.0	
136 Chlorobenzene	112	11.061	11.061	0.000	94	574488	50.0	50.3	
137 1,1,1,2-Tetrachloroethane	131	11.147	11.147	0.000	95	221519	50.0	49.0	
138 Ethylbenzene	91	11.147	11.147	0.000	99	1014967	50.0	49.4	
140 m-Xylene & p-Xylene	106	11.269	11.269	0.000	100	798072	100.0	98.9	
142 o-Xylene	106	11.598	11.598	0.000	97	412969	50.0	48.1	
143 Styrene	104	11.619	11.619	0.000	94	663457	50.0	48.6	
144 Bromoform	173	11.776	11.776	0.000	96	158645	50.0	44.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
145 Isopropylbenzene	105	11.905	11.905	0.000	96	1030496	50.0	48.5	
$ 148 4-Bromofluorobenzene (Surr)	95	12.055	12.055	0.000	89	300161	50.0	49.0	
149 1,1,2,2-Tetrachloroethane	83	12.148	12.148	0.000	94	375239	50.0	46.6	
150 Bromobenzene	156	12.170	12.170	0.000	96	255652	50.0	47.9	
151 trans-1,4-Dichloro-2-butene	53	12.177	12.177	0.000	87	96976	125.0	44.3	
152 1,2,3-Trichloropropane	110	12.198	12.198	0.000	84	118281	50.0	47.7	
153 N-Propylbenzene	91	12.241	12.241	0.000	99	1279257	50.0	51.7	
154 2-Chlorotoluene	126	12.313	12.313	0.000	96	259758	50.0	48.7	
155 1,3,5-Trimethylbenzene	105	12.377	12.377	0.000	93	968549	50.0	50.1	
156 4-Chlorotoluene	126	12.406	12.406	0.000	98	253372	50.0	49.5	
158 tert-Butylbenzene	134	12.620	12.620	0.000	93	191549	50.0	53.0	
160 1,2,4-Trimethylbenzene	105	12.663	12.663	0.000	98	1004399	50.0	49.8	
161 sec-Butylbenzene	105	12.785	12.785	0.000	95	1270924	50.0	52.1	
162 1,3-Dichlorobenzene	146	12.885	12.885	0.000	98	519638	50.0	48.3	
163 4-Isopropyltoluene	119	12.892	12.892	0.000	97	1122381	50.0	51.4	
* 164 1,4-Dichlorobenzene-d4	152	12.942	12.942	0.000	95	351467	50.0	50.0	
165 1,4-Dichlorobenzene	146	12.956	12.956	0.000	94	532026	50.0	47.9	
166 1,2,3-Trimethylbenzene	105	12.970	12.970	0.000	98	1074065	50.0	49.5	
167 Benzyl chloride	91	13.035	13.035	0.000	99	816260	50.0	49.9	
168 1,3-Diethylbenzene	119	13.092	13.092	0.000	95	654615	50.0	50.3	
169 p-Diethylbenzene	119	13.171	13.171	0.000	94	689217	50.0	50.5	
170 n-Butylbenzene	92	13.185	13.185	0.000	97	572906	50.0	52.3	
171 1,2-Dichlorobenzene	146	13.214	13.214	0.000	97	532227	50.0	45.7	
172 o-diethylbenzene	119	13.242	13.242	0.000	95	555145	50.0	50.5	
175 1,2-Dibromo-3-Chloropropane	75	13.757	13.757	0.000	84	119060	50.0	45.8	
176 1,3,5-Trichlorobenzene	180	13.893	13.893	0.000	97	428054	50.0	45.6	
177 1,2,4-Trichlorobenzene	180	14.315	14.315	0.000	95	421199	50.0	43.5	
179 Hexachlorobutadiene	225	14.400	14.400	0.000	98	170540	50.0	48.9	
180 Naphthalene	128	14.493	14.493	0.000	97	1534176	50.0	41.6	
181 1,2,3-Trichlorobenzene	180	14.636	14.636	0.000	95	417418	50.0	42.0	
182 2-Methylnaphthalene	142	15.251	15.251	0.000	91	747916	50.0	35.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00191	Amount Added:	5.00	Units: uL	
MSV_CCV_2CEVE_00183	Amount Added:	5.00	Units: uL	
MSV_CCV_VOC#3_00187	Amount Added:	4.00	Units: uL	
MSV_CCV_GASES_00797	Amount Added:	2.50	Units: uL	
MSV_HP20_ISSS_00137	Amount Added:	1.00	Units: uL	Run Reagent

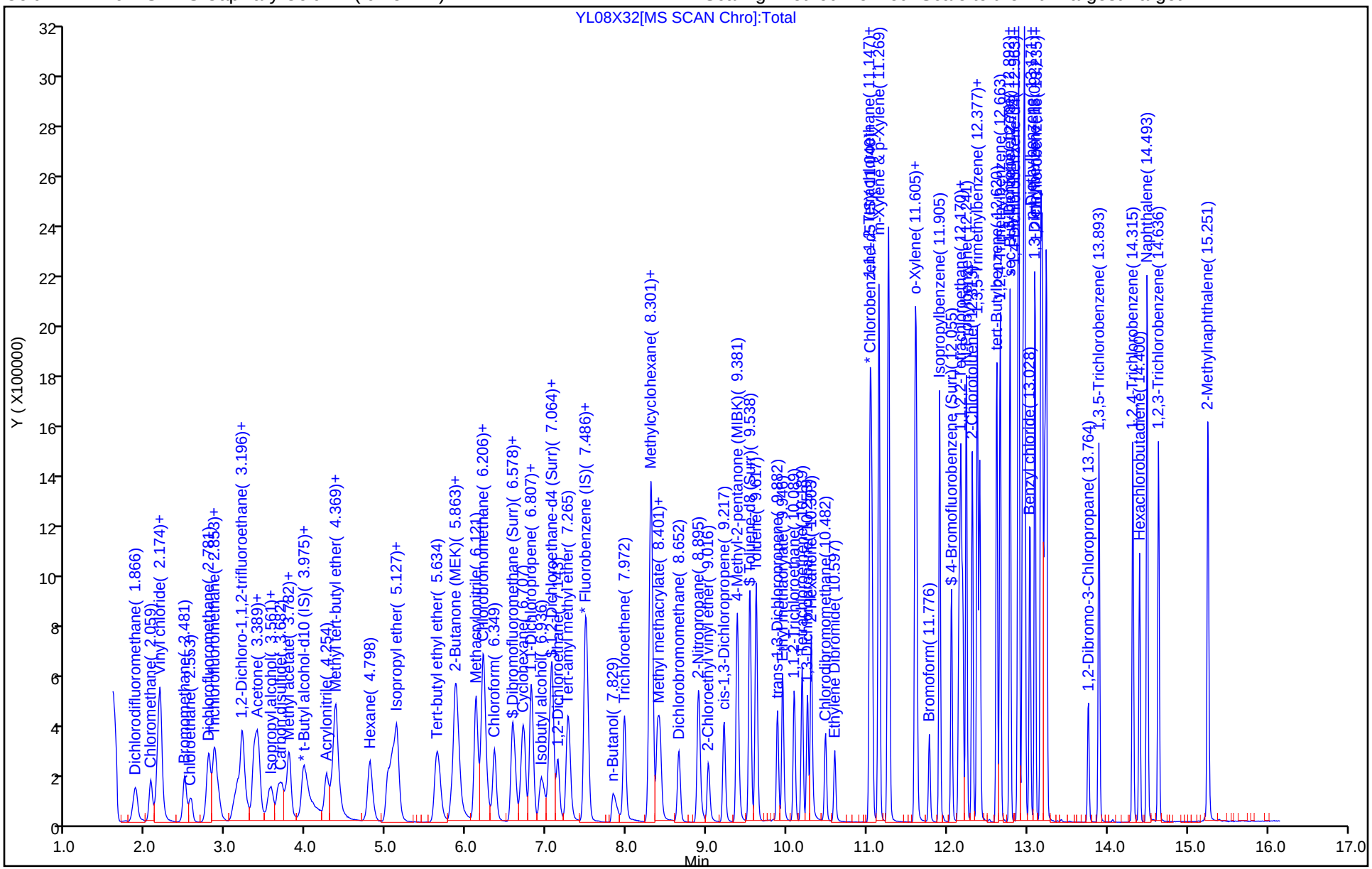
Report Date: 08-Jul-2024 21:29:19 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X32.D

Injection Date:	08-Jul-2024 20:55:30	Instrument ID:	9355	Operator ID:	MEC29284
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

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



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

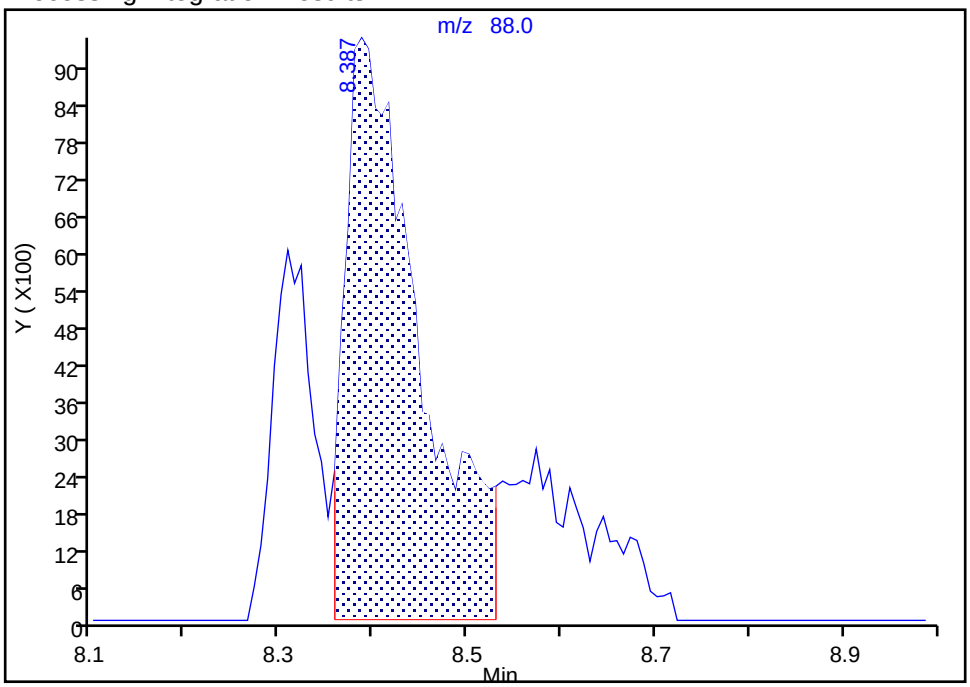
Data File: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X32.D
Injection Date: 08-Jul-2024 20:55:30 Instrument ID: 9355
Lims ID: CCVIS
Client ID:
Operator ID: MEC29284 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

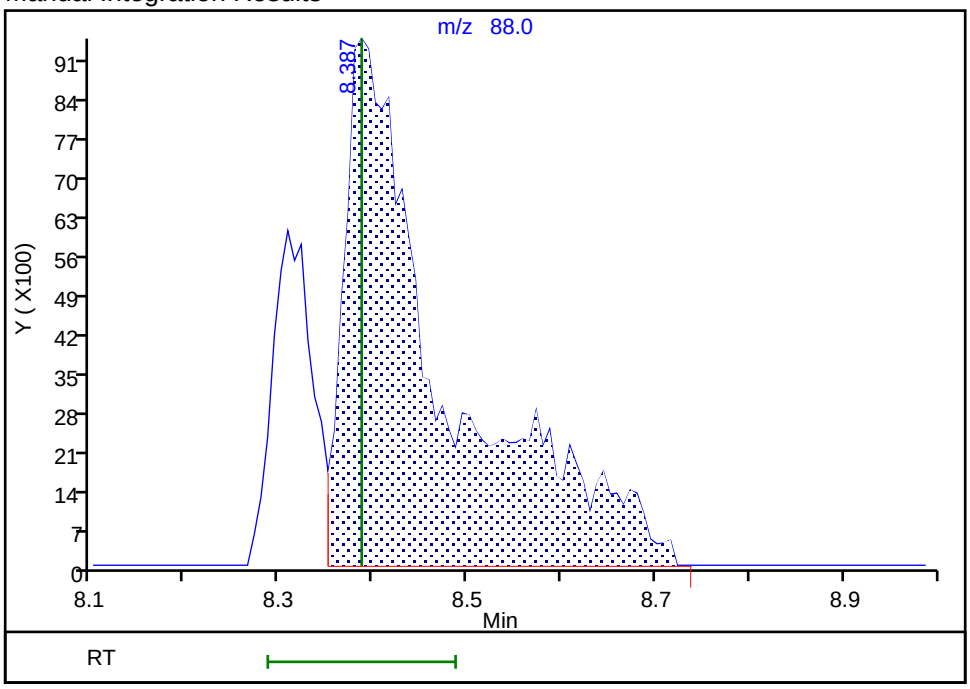
Processing Integration Results

RT: 8.39
Area: 52144
Amount: 443.2625
Amount Units: ug/l



Manual Integration Results

RT: 8.39
Area: 70049
Amount: 595.4683
Amount Units: ug/l



Reviewer: K4WN, 08-Jul-2024 21:27:04 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25T01.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	25-Mar-2024 12:49:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0109476-001				
Misc. Info.:	BFB				
Operator ID:	knk41612	Instrument ID:	9355		
Method:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\MSVoa_9355.m				
Limit Group:	MSV - 8260C_D				
Last Update:	25-Mar-2024 22:27:12	Calib Date:	25-Mar-2024 20:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1656				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 32 BFB	95	4.488	4.488	0.000	0	225673	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

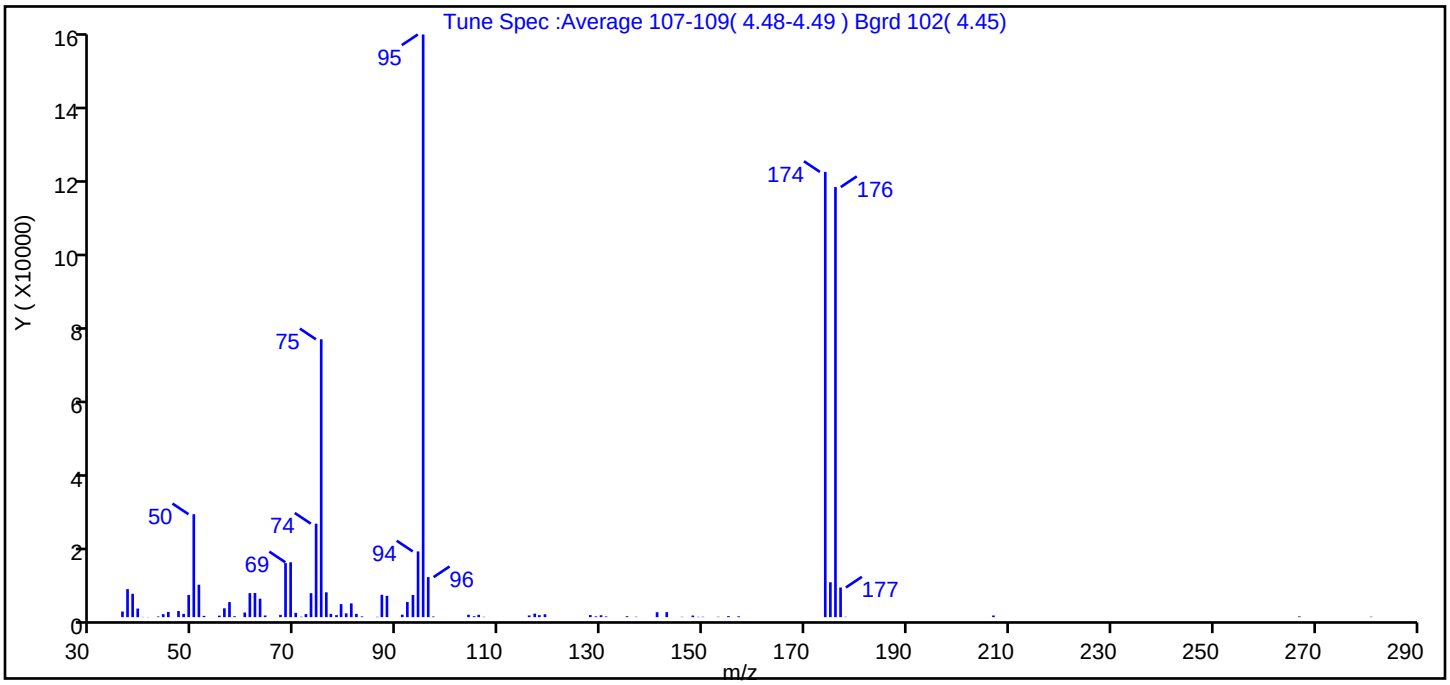
MSV_V_BFB_00016 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25T01.D
Injection Date: 25-Mar-2024 12:49:30 Instrument ID: 9355
Lims ID: bfb
Client ID:
Operator ID: knk41612 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 32 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.7
75	30 to 60% of m/z 95	47.7
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	76.4
175	5 to 9% of m/z 174	6.0 (7.8)
176	Greater than 95% but less than 101% of m/z 174	73.8 (96.6)
177	5 to 9% of m/z 176	5.1 (6.9)

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25T01.D\MSVoa_9355.rslt\spectra.d
Injection Date: 25-Mar-2024 12:49:30
Spectrum: Tune Spec :Average 107-109(4.48-4.49) Bgrd 102(4.45)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 83

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1483	62.00	6398	87.00	5920	135.00	250
37.00	7426	63.00	4892	88.00	5647	137.00	102
38.00	6181	64.00	443	91.00	648	141.00	1308
39.00	2282	67.00	600	92.00	4023	143.00	1332
40.00	60	68.00	14317	93.00	5870	146.00	84
41.00	48	69.00	14529	94.00	17408	147.00	12
43.00	169	70.00	1143	95.00	154304	148.00	420
44.00	790	71.00	108	96.00	10599	149.00	82
45.00	1386	72.00	808	97.00	165	150.00	96
47.00	1621	73.00	6344	104.00	637	153.00	94
48.00	864	74.00	24760	105.00	241	155.00	272
49.00	5866	75.00	73584	106.00	615	157.00	217
50.00	27256	76.00	6580	107.00	87	174.00	117904
51.00	8587	77.00	867	116.00	451	175.00	9234
52.00	338	78.00	535	117.00	928	176.00	113904
55.00	387	79.00	3456	118.00	531	177.00	7853
56.00	2342	80.00	1011	119.00	765	178.00	91
57.00	3987	81.00	3646	128.00	551	207.00	438
58.00	237	82.00	874	129.00	208	267.00	199
60.00	1228	83.00	189	130.00	506	281.00	108
61.00	6369	86.00	90	131.00	185		

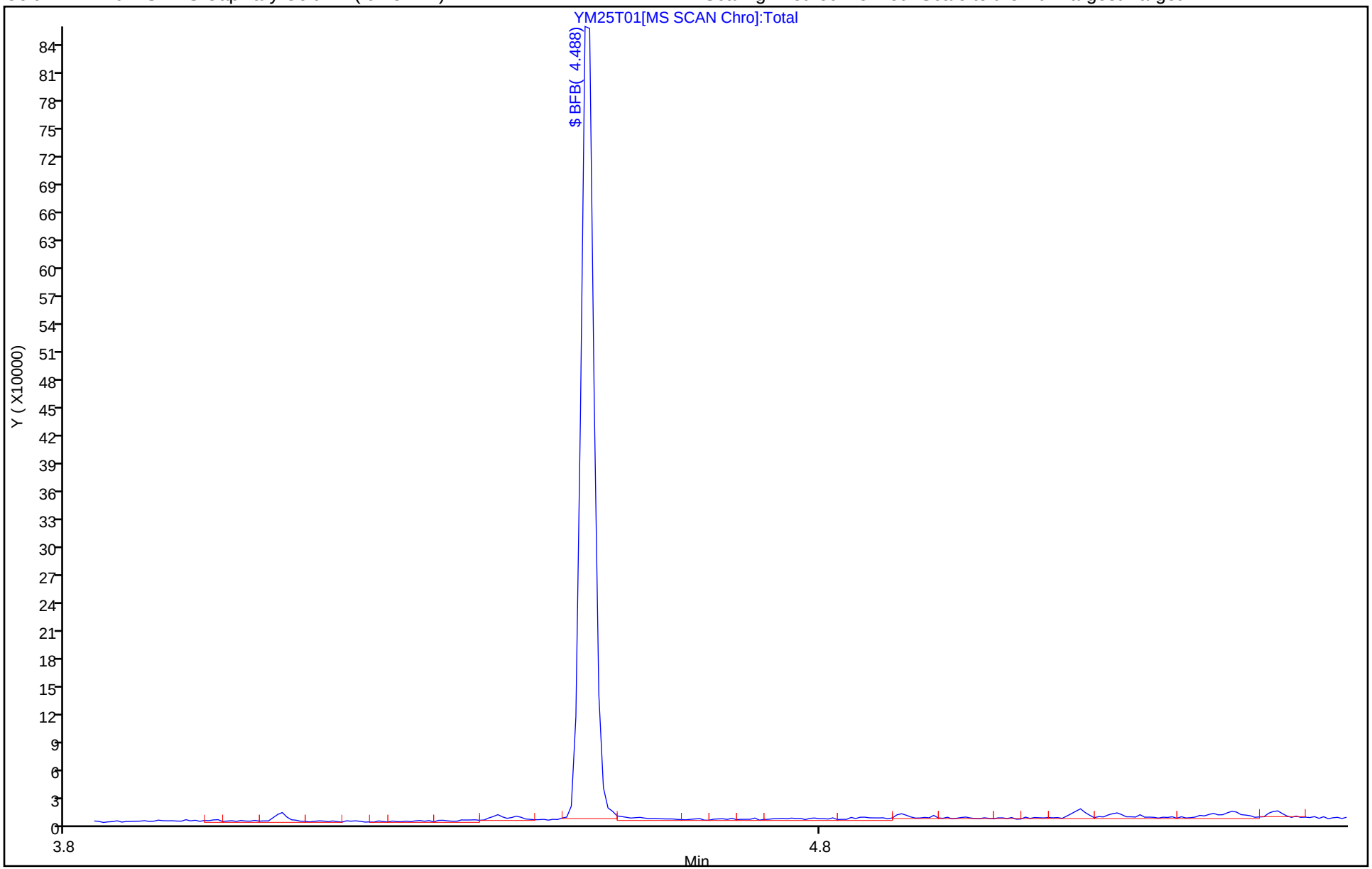
Report Date: 25-Mar-2024 22:27:12 Chrom Revision: 2.3 20-Mar-2024 17:23:48

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25T01.D

Injection Date:	25-Mar-2024 12:49:30	Instrument ID:	9355	Operator ID:	knk41612
Lims ID:	bfb			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08T31.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 08-Jul-2024 20:17:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0118782-001
Misc. Info.: BFB
Operator ID: MEC29284 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2024 21:29:16 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1691

First Level Reviewer: K4WN Date: 08-Jul-2024 20:29:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 32 BFB	95	4.482	4.482	0.000	0	226334	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

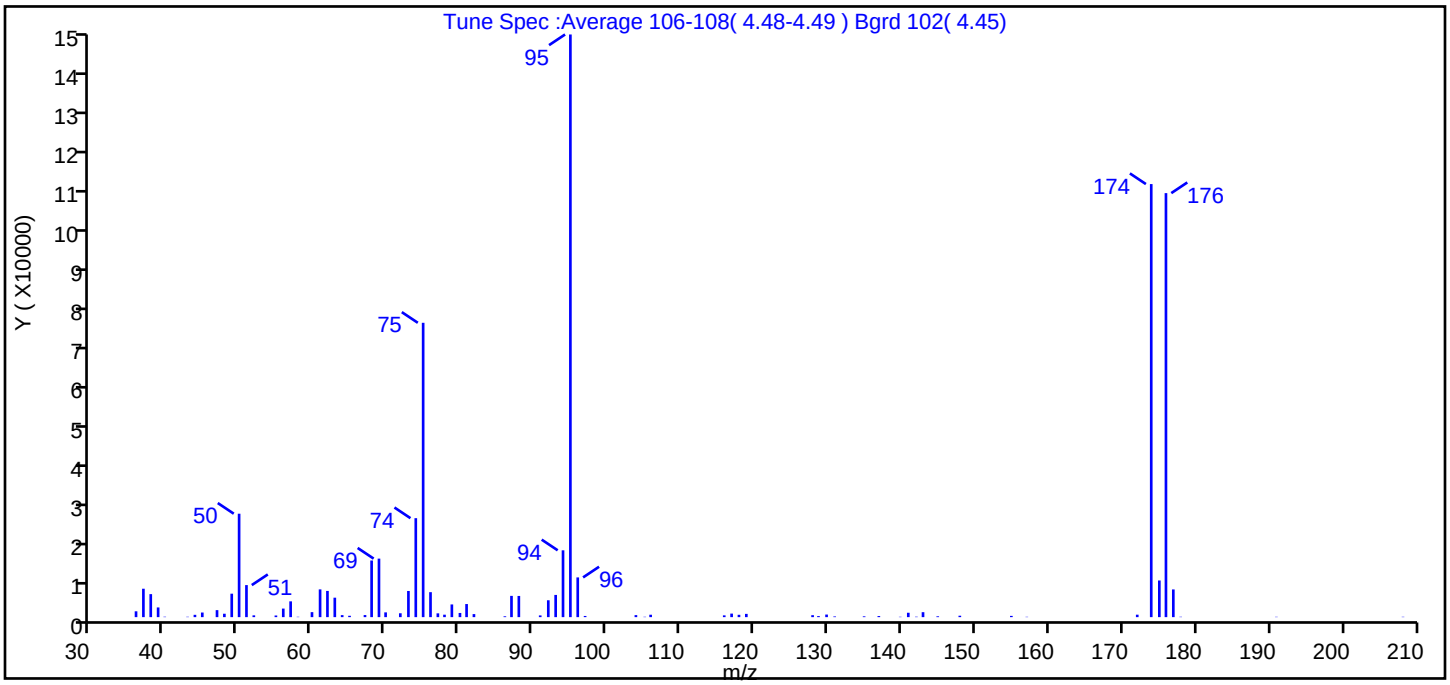
MSV_V_BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08T31.D
Injection Date: 08-Jul-2024 20:17:30 Instrument ID: 9355
Lims ID: BFB
Client ID:
Operator ID: MEC29284 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSVoa_9355 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 32 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.8
75	30 to 60% of m/z 95	50.5
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	74.3
175	5 to 9% of m/z 174	6.3 (8.5)
176	Greater than 95% but less than 101% of m/z 174	72.8 (97.9)
177	5 to 9% of m/z 176	4.8 (6.5)

Data File: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08T31.D\MSVoa_9355.rslt\spectra.d
Injection Date: 08-Jul-2024 20:17:30
Spectrum: Tune Spec :Average 106-108(4.48-4.49) Bgrd 102(4.45)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 78

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1490	62.00	6673	87.00	5414	135.00	201
37.00	7235	63.00	4953	88.00	5395	137.00	275
38.00	5860	64.00	514	91.00	438	140.00	89
39.00	2470	65.00	349	92.00	4297	141.00	1118
40.00	106	67.00	530	93.00	5655	142.00	113
43.00	95	68.00	14424	94.00	17016	143.00	1263
44.00	591	69.00	14900	95.00	148352	145.00	213
45.00	1176	70.00	1214	96.00	10116	148.00	362
47.00	1784	72.00	987	97.00	302	155.00	322
48.00	869	73.00	6661	104.00	515	157.00	85
49.00	5973	74.00	25200	105.00	91	172.00	626
50.00	26336	75.00	74944	106.00	615	174.00	110264
51.00	8161	76.00	6360	116.00	453	175.00	9335
52.00	457	77.00	967	117.00	904	176.00	107960
55.00	420	78.00	624	118.00	597	177.00	7055
56.00	2180	79.00	3235	119.00	832	178.00	96
57.00	4021	80.00	1063	128.00	500	191.00	85
58.00	93	81.00	3335	129.00	264	208.00	89
60.00	1272	82.00	778	130.00	659		
61.00	7066	86.00	213	131.00	177		

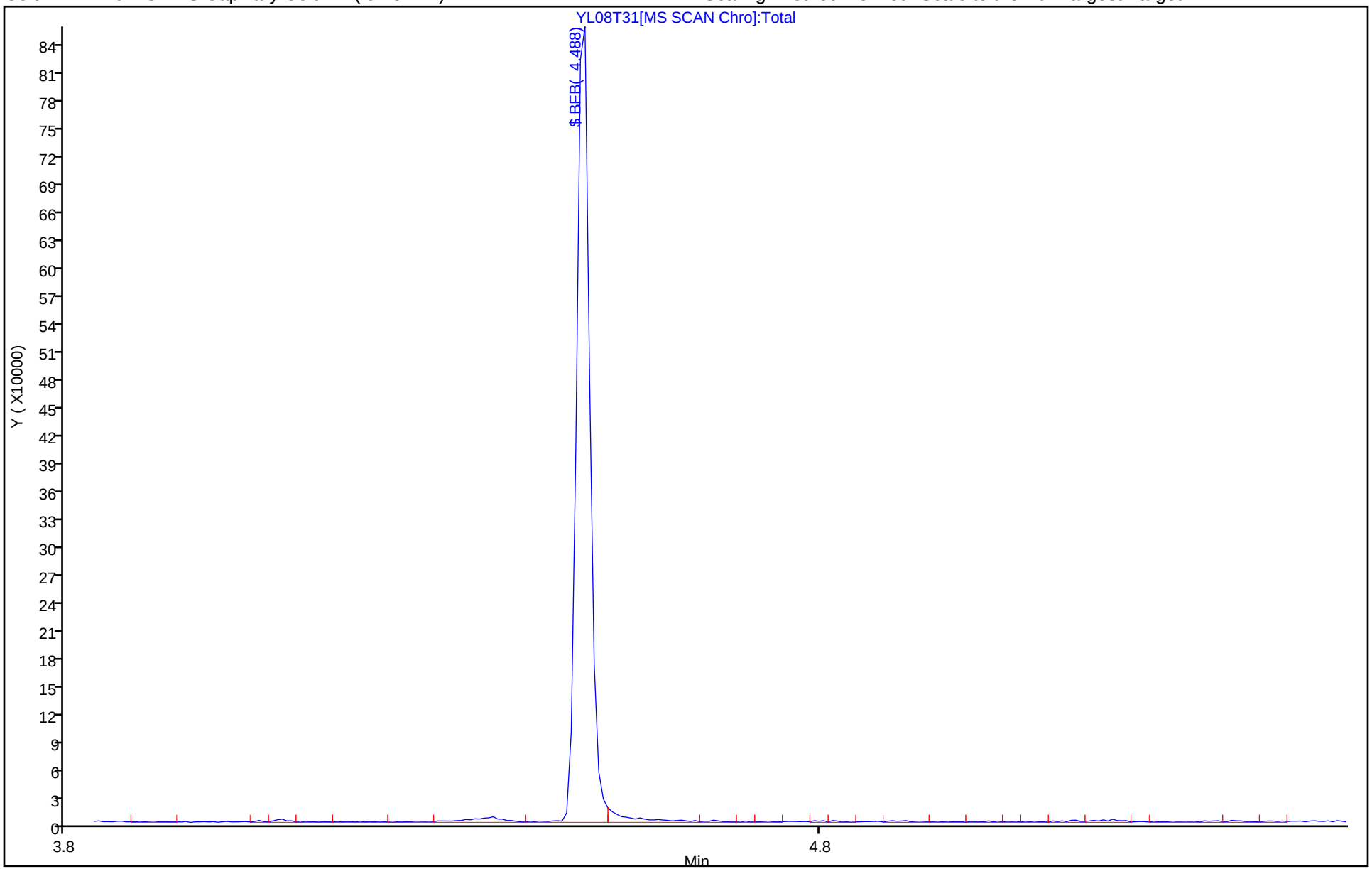
Report Date: 08-Jul-2024 21:29:17 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08T31.D

Injection Date:	08-Jul-2024 20:17:30	Instrument ID:	9355	Operator ID:	MEC29284
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

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



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177862-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-525820/6

Matrix: Water
Lab File ID: YL08X35.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 5(mL)
Date Analyzed: 07/08/2024 22:03

Soil Aliquot Vol:
Dilution Factor: 1

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

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 525820
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP20

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.30
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.30
75-34-3	1,1-Dichloroethane	ND		1.0	0.30
75-35-4	1,1-Dichloroethene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	ND		1.0	0.20
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.30
78-93-3	2-Butanone (MEK)	ND		10	0.50
591-78-6	2-Hexanone	ND		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	0.50
67-64-1	Acetone	ND		20	0.70
71-43-2	Benzene	ND		1.0	0.30
74-97-5	Bromochloromethane	ND		5.0	0.20
75-27-4	Bromodichloromethane	ND		1.0	0.20
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		1.0	0.30
75-15-0	Carbon disulfide	ND		5.0	0.30
56-23-5	Carbon tetrachloride	ND		1.0	0.30
108-90-7	Chlorobenzene	ND		1.0	0.30
75-00-3	Chloroethane	ND		1.0	0.30
67-66-3	Chloroform	ND		1.0	0.30
74-87-3	Chloromethane	ND		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.20
124-48-1	Dibromochloromethane	ND		1.0	0.20
100-41-4	Ethylbenzene	ND		1.0	0.40
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.20
75-09-2	Methylene Chloride	ND		1.0	0.30
100-42-5	Styrene	ND		5.0	0.30
127-18-4	Tetrachloroethene	ND		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177862-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-525820/6

Matrix: Water
Lab File ID: YL08X35.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 5(mL)
Date Analyzed: 07/08/2024 22:03

Soil Aliquot Vol:
Dilution Factor: 1

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

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 525820
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP20

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	ND		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	ND		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.20
79-01-6	Trichloroethene	ND		1.0	0.30
75-01-4	Vinyl chloride	ND		1.0	0.30
1330-20-7	Xylenes, Total	ND		1.0	0.40

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)	105		80-120
2037-26-5	Toluene-d8 (Surr)	105		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X35.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 08-Jul-2024 22:03:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118782-006
Misc. Info.: MB
Operator ID: MEC29284 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2024 01:15:36 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: K4WN Date: 08-Jul-2024 22:44:11

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Chlorotrifluoroethene	116		1.830					ND	
2	Dichlorodifluoromethane	85		1.866					ND	
3	Chlorodifluoromethane	51		1.880					ND	
4	Chloromethane	50		2.059					ND	
6	Vinyl chloride	62		2.152					ND	
5	Butadiene	39		2.174					ND	
7	2-Chloro-1,1,1-Trifluoroethane	118		2.238					ND	
8	Bromomethane	94		2.481					ND	
9	Chloroethane	64		2.560					ND	
10	Dichlorofluoromethane	67		2.781					ND	
11	Trichlorofluoromethane	101		2.846					ND	
12	Pentane	43		2.867					ND	
13	Ethanol	45		2.917					ND	
14	Ethyl ether	59		3.046					ND	
15	1,2-Dichloro-1,1,2-trifluoroetha	67		3.146					ND	
16	Acrolein	56		3.203					ND	
18	Acetone	58		3.346					ND	
17	1,1-Dichloroethene	96		3.361					ND	
19	1,1,2-Trichloro-1,2,2-trifluoroe	101		3.396					ND	
20	Isopropyl alcohol	45		3.504					ND	
21	Iodomethane	142		3.561					ND	
22	Carbon disulfide	76		3.682					ND	7
23	Acetonitrile	41		3.683					ND	
24	Methyl acetate	43		3.747					ND	
25	3-Chloro-1-propene	41		3.790					ND	
* 26	t-Butyl alcohol-d10 (IS)	65	4.011	3.968	0.043	26	333271	250.0	250.0	
27	Methylene Chloride	84		3.975					ND	
28	2-Methyl-2-propanol	59		4.090					ND	
29	Acrylonitrile	53		4.254					ND	
30	Methyl tert-butyl ether	73		4.347					ND	
31	trans-1,2-Dichloroethene	96		4.369					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Hexane	57		4.798					ND	
35 Vinyl acetate	43		5.012					ND	
34 1,1-Dichloroethane	63		5.019					ND	
36 Isopropyl ether	45		5.091					ND	
37 2-Chloro-1,3-butadiene	53		5.134					ND	
39 Tert-butyl ethyl ether	59		5.634					ND	
40 2-Butanone (MEK)	43		5.820					ND	
41 cis-1,2-Dichloroethene	96		5.863					ND	
42 2,2-Dichloropropane	77		5.885					ND	
45 Methyl acrylate	55		5.885					ND	
43 Propionitrile	54		5.892					ND	
44 Ethyl acetate	43		5.899					ND	
46 Methacrylonitrile	67		6.121					ND	
S 47 1,2-Dichloroethene, Total	100		6.155					ND	7
48 Chlorobromomethane	128		6.199					ND	
49 Tetrahydrofuran	71		6.213					ND	
51 Chloroform	83		6.349					ND	
$ 52 Dibromofluoromethane (Surr)	113	6.578	6.571	0.007	93	189643	50.0	52.4	
53 1,1,1-Trichloroethane	97		6.592					ND	
54 Cyclohexane	56		6.714					ND	
55 1,1-Dichloropropene	75		6.807					ND	
56 Carbon tetrachloride	117		6.821					ND	
57 Isobutyl alcohol	41		6.936					ND	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.036	7.029	0.007	83	47967	50.0	52.2	
59 Benzene	78		7.064					ND	
60 1,2-Dichloroethane	62		7.143					ND	
61 Isopropyl acetate	43		7.143					ND	
62 Tert-amyl methyl ether	73		7.272					ND	
* 63 Fluorobenzene (IS)	96	7.479	7.479	0.000	99	761678	50.0	50.0	
64 n-Heptane	43		7.508					ND	
66 n-Butanol	56		7.837					ND	
65 t-Amyl alcohol	73		7.858					ND	
67 Trichloroethene	95		7.972					ND	
68 Ethyl acrylate	55		8.094					ND	
69 Methylcyclohexane	83		8.287					ND	
70 1,2-Dichloropropane	63		8.301					ND	
71 2-ethoxy-2-methyl butane	87		8.316					ND	
72 Methyl methacrylate	69		8.387					ND	
73 1,4-Dioxane	88		8.387					ND	
74 Dibromomethane	93		8.416					ND	
75 n-Propyl acetate	61		8.466					ND	
76 Dichlorobromomethane	83		8.652					ND	
77 2-Nitropropane	41		8.895					ND	
78 2-Chloroethyl vinyl ether	63		9.016					ND	
79 cis-1,3-Dichloropropene	75		9.217					ND	
80 4-Methyl-2-pentanone (MIBK)	43		9.381					ND	
$ 81 Toluene-d8 (Surr)	98	9.539	9.538	0.001	94	690058	50.0	52.3	
82 Toluene	92		9.617					ND	
83 trans-1,3-Dichloropropene	75		9.882					ND	
84 Ethyl methacrylate	69		9.946					ND	
S 125 1,3-Dichloropropene, Total	100		10.060					ND	7
126 1,1,2-Trichloroethane	97		10.089					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
127 Tetrachloroethene	166		10.189				ND		
128 1,3-Dichloropropane	76		10.253				ND		
130 3,4-Dichloro-1-butene	75		10.296				ND		
129 2-Hexanone	43		10.303				ND		
131 n-Butyl acetate	43		10.439				ND		
132 Chlorodibromomethane	129		10.482				ND		
133 Ethylene Dibromide	107		10.597				ND		
* 134 Chlorobenzene-d5 (IS)	117	11.033	11.033	0.000	87	506456	50.0	50.0	
135 1-Chlorohexane	91		11.047				ND		U
136 Chlorobenzene	112		11.061				ND		
137 1,1,1,2-Tetrachloroethane	131		11.147				ND		
138 Ethylbenzene	91		11.147				ND		
S 139 Xylenes, Total	106		11.245				ND		7
140 m-Xylene & p-Xylene	106		11.269				ND		
142 o-Xylene	106		11.598				ND		
141 n-Butyl acrylate	55		11.598				ND		
143 Styrene	104		11.619				ND		
144 Bromoform	173		11.776				ND		
145 Isopropylbenzene	105		11.905				ND		
146 cis-1,4-Dichloro-2-butene	88		11.948				ND		
147 Cyclohexanone	55		11.970				ND		U
$ 148 4-Bromofluorobenzene (Surr)	95	12.055	12.055	0.000	88	250064	50.0	48.3	
149 1,1,2,2-Tetrachloroethane	83		12.148				ND		
150 Bromobenzene	156		12.170				ND		
151 trans-1,4-Dichloro-2-butene	53		12.177				ND		
152 1,2,3-Trichloropropane	110		12.198				ND		
153 N-Propylbenzene	91		12.241				ND		
154 2-Chlorotoluene	126		12.313				ND		
155 1,3,5-Trimethylbenzene	105		12.377				ND		
156 4-Chlorotoluene	126		12.406				ND		
157 2,3,4-Trichlorobutene	109		12.442				ND		
158 tert-Butylbenzene	134		12.620				ND		
159 Pentachloroethane	167		12.649				ND		
160 1,2,4-Trimethylbenzene	105		12.663				ND		7
161 sec-Butylbenzene	105		12.785				ND		7
162 1,3-Dichlorobenzene	146		12.885				ND		7
163 4-Isopropyltoluene	119		12.892				ND		
* 164 1,4-Dichlorobenzene-d4	152	12.942	12.942	0.000	96	304121	50.0	50.0	
165 1,4-Dichlorobenzene	146		12.956				ND		7
166 1,2,3-Trimethylbenzene	105		12.970				ND		
167 Benzyl chloride	91		13.035				ND		7
168 1,3-Diethylbenzene	119		13.092				ND		
169 p-Diethylbenzene	119		13.171				ND		
170 n-Butylbenzene	92		13.185				ND		
171 1,2-Dichlorobenzene	146		13.214				ND		
172 o-diethylbenzene	119		13.242				ND		
173 Hexachloroethane	201		13.560				ND		
174 2-Butoxyethyl acetate	43		13.643				ND		
175 1,2-Dibromo-3-Chloropropane	75		13.757				ND		
176 1,3,5-Trichlorobenzene	180		13.893				ND		
177 1,2,4-Trichlorobenzene	180		14.315				ND		7
178 2-Ethylhexyl acrylate	55		14.372				ND		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
179 Hexachlorobutadiene	225		14.400					ND	7
180 Naphthalene	128		14.493					ND	7
181 1,2,3-Trichlorobenzene	180		14.636					ND	7
182 2-Methylnaphthalene	142		15.251					ND	7
183 C4-C10	1		0.000					ND	
184 2,3-Dichloro-1,3-butadiene	1		0.000					ND	
185 Propene oxide	1		0.000					ND	
186 1,3-Divinylbenzene	1		0.000					ND	
187 Propanol	1		0.000					ND	
188 3-chloro-1-Butene TIC	1		0.000					ND	
189 1,1,2-Trichloro-1,2,2-trifluoroe	1		0.000					ND	
190 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
191 Diethoxymethane	1		0.000					ND	
192 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000					ND	
193 Isobutyl acetate	43		0.000					ND	
194 1,4-Divinylbenzene	1		0.000					ND	
195 tert-Butyl Formate	1		0.000					ND	
196 Chloroacetonitrile	1		0.000					ND	
197 C6-C12	1		0.000					ND	
S 198 divinyl benzene	1		0.000					ND	7
199 3-Methyl-1-butene	1		0.000					ND	
200 trans-1,2,3-Trichlorobutene-2	1		0.000					ND	
201 cis-1,2,3-Trichlorobutene-2	1		0.000					ND	
202 3-chloro-1-Butene	1		0.000					ND	
203 C5-C12	1		0.000					ND	
204 C6-C10	1		0.000					ND	
205 n-Octane	1		0.000					ND	
206 Undecane	1		0.000					ND	
207 C4-C12	1		0.000					ND	
208 1-Bromo-2-chloroethane	1		0.000					ND	
S 209 Total BTEX	1		0.000					ND	
210 1-Chlorobutane	1		0.000					ND	
S 211 Total Diethylbenzene	1		0.000					ND	7
212 Dodecane	57		0.000					ND	
213 sec-Butyl Alcohol	45		0.000					ND	
214 Butane	1		0.000					ND	
215 n-Decane	57		0.000					ND	
216 Ethyl bromide	1		0.000					ND	
217 Methylal	1		0.000					ND	
218 n-Nonane	1		0.000					ND	
219 4-Ethyltoluene	1		0.000					ND	
274 Gasoline (Unleaded)	1		0.000					ND	
275 1-Methylnaphthalene	142		0.000					ND	
$ 276 trans-1,2,3-Trichlorobutene-2 T	1		0.000					ND	
277 1,1,1,2-Tetrafluoroethane TIC	1		0.000					ND	
278 2-ethoxy-2-methyl butane TIC	1		0.000					ND	
279 2,3-Dimethylbutane TIC	1		0.000					ND	
280 2,2-Dimethylbutane TIC	1		0.000					ND	
281 Methylcyclopentane TIC	1		0.000					ND	
282 Decamethylcyclopentasiloxane T	TIC		0.000					ND	
283 Dimethyl Sulfide TIC	1		0.000					ND	
284 2,2-Dimethylpropane TIC	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
285 2-Methylhexane TIC	1		0.000					ND	
286 1-Methylnaphthalene (TIC)	1		0.000					ND	
287 3-Methylpentane TIC	1		0.000					ND	
288 Cyclopentane TIC	1		0.000					ND	
289 3-Methylhexane TIC	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_HP20_ISSS_00137 Amount Added: 1.00 Units: uL Run Reagent

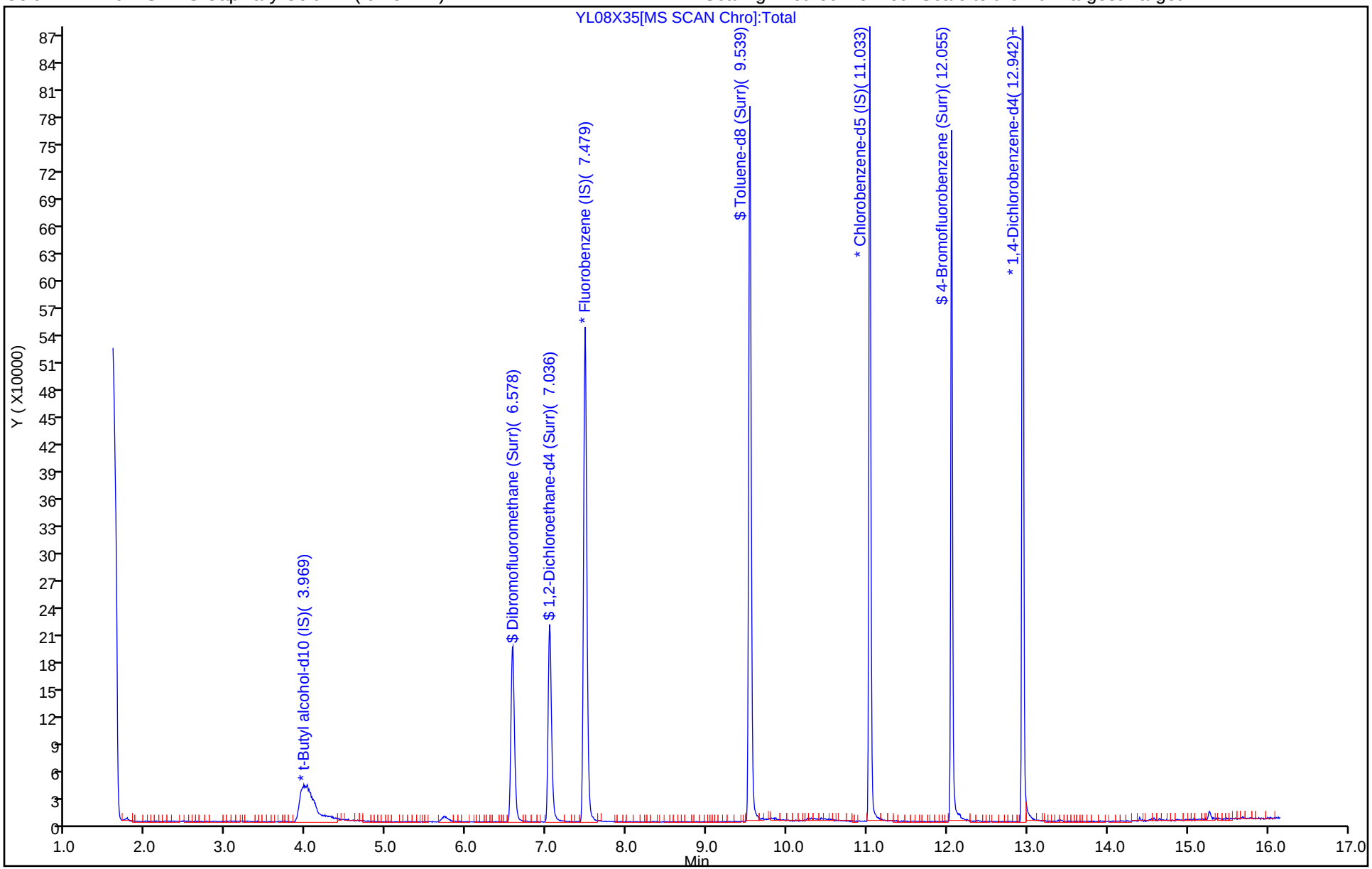
Report Date: 09-Jul-2024 14:36:46 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X35.D

Injection Date:	08-Jul-2024 22:03:30	Instrument ID:	9355	Operator ID:	MEC29284
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVoa_9355	Limit Group:	MSV - 8260C_D		

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



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X35.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 08-Jul-2024 22:03:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118782-006
Misc. Info.: MB
Operator ID: MEC29284 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2024 01:15:36 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: K4WN Date: 08-Jul-2024 22:44:11

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	52.4	104.83
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	52.2	104.40
$ 81 Toluene-d8 (Surr)	50.0	52.3	104.54
$ 148 4-Bromofluorobenzene (Surr)	50.0	48.3	96.61

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177862-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-525820/4

Matrix: Water
Lab File ID: YL08X33.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 5(mL)
Date Analyzed: 07/08/2024 21:17

Soil Aliquot Vol:
Dilution Factor: 1

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

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 525820
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP20

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	19.0		1.0	0.30
71-55-6	1,1,1-Trichloroethane	19.9		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	18.8		1.0	0.30
79-00-5	1,1,2-Trichloroethane	19.9		1.0	0.30
75-34-3	1,1-Dichloroethane	21.3		1.0	0.30
75-35-4	1,1-Dichloroethene	22.5		1.0	0.30
106-93-4	1,2-Dibromoethane (EDB)	19.5		1.0	0.20
107-06-2	1,2-Dichloroethane	20.8		1.0	0.30
78-87-5	1,2-Dichloropropane	19.6		1.0	0.30
78-93-3	2-Butanone (MEK)	209		10	0.50
591-78-6	2-Hexanone	226		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	215		10	0.50
67-64-1	Acetone	257		20	0.70
71-43-2	Benzene	20.3		1.0	0.30
74-97-5	Bromochloromethane	20.1		5.0	0.20
75-27-4	Bromodichloromethane	20.0		1.0	0.20
75-25-2	Bromoform	17.2		4.0	1.0
74-83-9	Bromomethane	14.3		1.0	0.30
75-15-0	Carbon disulfide	21.3		5.0	0.30
56-23-5	Carbon tetrachloride	21.0		1.0	0.30
108-90-7	Chlorobenzene	20.3		1.0	0.30
75-00-3	Chloroethane	16.7		1.0	0.30
67-66-3	Chloroform	16.9		1.0	0.30
74-87-3	Chloromethane	12.3		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	20.5		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	17.5		1.0	0.20
124-48-1	Dibromochloromethane	19.6		1.0	0.20
100-41-4	Ethylbenzene	19.7		1.0	0.40
1634-04-4	Methyl tert-butyl ether	17.6		1.0	0.20
75-09-2	Methylene Chloride	22.6		1.0	0.30
100-42-5	Styrene	18.6		5.0	0.30
127-18-4	Tetrachloroethene	19.7		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177862-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-525820/4

Matrix: Water
Lab File ID: YL08X33.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 5(mL)
Date Analyzed: 07/08/2024 21:17

Soil Aliquot Vol:
Dilution Factor: 1

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

Purge Volume: 5.0(mL)
Heated Purge: (Y/N) N pH:

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

Analysis Batch No.: 525820
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP20

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	20.8		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	21.4		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	19.7		1.0	0.20
79-01-6	Trichloroethene	20.1		1.0	0.30
75-01-4	Vinyl chloride	13.0		1.0	0.30
1330-20-7	Xylenes, Total	58.1		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		80-120
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	105		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X33.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 08-Jul-2024 21:17:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118782-004
Misc. Info.: LCS
Operator ID: MEC29284 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2024 01:15:36 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: K4WN Date: 08-Jul-2024 21:47:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.866	1.866	0.000	99	99441	20.0	12.8	
4 Chloromethane	50	2.052	2.059	-0.007	99	102407	20.0	12.3	
6 Vinyl chloride	62	2.145	2.152	-0.007	97	100361	20.0	13.0	
5 Butadiene	39	2.174	2.174	0.000	91	227509	20.0	30.6	
8 Bromomethane	94	2.481	2.481	0.000	91	74592	20.0	14.3	
9 Chloroethane	64	2.553	2.560	-0.007	100	60624	20.0	16.7	
10 Dichlorofluoromethane	67	2.782	2.781	0.001	97	156708	20.0	14.5	
11 Trichlorofluoromethane	101	2.853	2.846	0.007	97	127006	20.0	16.1	
12 Pentane	43	2.860	2.867	-0.007	97	99571	20.0	15.7	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.132	3.146	-0.014	91	86319	20.0	17.1	
16 Acrolein	56		3.203				ND	ND	
18 Acetone	58	3.346	3.346	0.000	100	204721	250.0	256.7	
17 1,1-Dichloroethene	96	3.346	3.361	-0.014	97	76624	20.0	22.5	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.389	3.396	-0.007	94	70983	20.0	16.3	
20 Isopropyl alcohol	45	3.518	3.504	0.014	96	89355	150.0	124.2	
21 Iodomethane	142	3.554	3.561	-0.007	98	138239	20.0	19.1	
22 Carbon disulfide	76	3.675	3.682	-0.007	99	278856	20.0	21.3	
24 Methyl acetate	43	3.754	3.747	0.007	96	93743	20.0	18.4	
25 3-Chloro-1-propene	41	3.783	3.790	-0.007	86	99552	20.0	16.7	
* 26 t-Butyl alcohol-d10 (IS)	65	3.961	3.968	-0.007	96	362856	250.0	250.0	
27 Methylene Chloride	84	3.968	3.975	-0.007	91	93154	20.0	22.6	
28 2-Methyl-2-propanol	59	4.083	4.090	-0.007	99	241160	200.0	160.0	M
29 Acrylonitrile	53	4.255	4.254	0.000	100	296532	100.0	106.9	
30 Methyl tert-butyl ether	73	4.340	4.347	-0.007	96	273906	20.0	17.6	
31 trans-1,2-Dichloroethene	96	4.362	4.369	-0.007	98	77527	20.0	21.4	
33 Hexane	57	4.791	4.798	-0.007	93	96830	20.0	18.6	
34 1,1-Dichloroethane	63	5.005	5.019	-0.014	96	139420	20.0	21.3	
36 Isopropyl ether	45	5.084	5.091	-0.007	94	227534	20.0	17.3	
37 2-Chloro-1,3-butadiene	53	5.134	5.134	0.000	91	113323	20.0	19.7	
39 Tert-butyl ethyl ether	59	5.620	5.634	-0.014	97	245752	20.0	17.4	
40 2-Butanone (MEK)	43	5.813	5.820	-0.007	100	947141	250.0	208.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 cis-1,2-Dichloroethene	96	5.849	5.863	-0.014	82	87618	20.0	20.5	
42 2,2-Dichloropropane	77	5.878	5.885	-0.007	79	135238	20.0	19.5	
43 Propionitrile	54	5.892	5.892	0.000	97	194936	150.0	149.8	
46 Methacrylonitrile	67	6.114	6.121	-0.006	90	436609	150.0	152.8	
48 Chlorobromomethane	128	6.192	6.199	-0.007	89	43806	20.0	20.1	
49 Tetrahydrofuran	71	6.221	6.213	0.008	89	113878	100.0	98.6	
51 Chloroform	83	6.350	6.349	0.001	92	139765	20.0	16.9	
$ 52 Dibromofluoromethane (Surr)	113	6.571	6.571	0.000	93	194555	50.0	49.3	
53 1,1,1-Trichloroethane	97	6.585	6.592	-0.007	98	133558	20.0	19.9	
54 Cyclohexane	56	6.707	6.714	-0.007	88	131086	20.0	17.8	
55 1,1-Dichloropropene	75	6.807	6.807	0.000	94	104622	20.0	20.6	
56 Carbon tetrachloride	117	6.807	6.821	-0.014	80	112950	20.0	21.0	
57 Isobutyl alcohol	41	6.936	6.936	0.000	93	196537	500.0	414.2	
$ 58 1,2-Dichloroethane-d4 (Surr)	102	7.036	7.029	0.007	94	49327	50.0	49.2	
59 Benzene	78	7.072	7.064	0.008	97	325174	20.0	20.3	
60 1,2-Dichloroethane	62	7.136	7.143	-0.007	98	120165	20.0	20.8	
62 Tert-amyl methyl ether	73	7.265	7.272	-0.007	98	247301	20.0	17.3	
* 63 Fluorobenzene (IS)	96	7.479	7.479	0.000	98	830700	50.0	50.0	
64 n-Heptane	43	7.508	7.508	0.000	93	102199	20.0	17.4	
66 n-Butanol	56	7.837	7.837	0.000	87	327247	1000.0	928.8	
67 Trichloroethene	95	7.973	7.972	0.001	99	82829	20.0	20.1	
69 Methylcyclohexane	83	8.287	8.287	0.000	91	142015	20.0	18.9	
70 1,2-Dichloropropane	63	8.294	8.301	-0.007	74	82740	20.0	19.6	
71 2-ethoxy-2-methyl butane	87	8.309	8.316	-0.007	95	111025	20.0	16.0	
72 Methyl methacrylate	69	8.387	8.387	0.000	88	79468	20.0	17.6	
73 1,4-Dioxane	88	8.394	8.387	0.007	44	53481	500.0	449.2	M
74 Dibromomethane	93	8.416	8.416	0.000	97	57822	20.0	19.3	
76 Dichlorobromomethane	83	8.645	8.652	-0.007	99	105122	20.0	20.0	
77 2-Nitropropane	41	8.902	8.895	0.007	98	41178	20.0	18.5	
78 2-Chloroethyl vinyl ether	63		9.016				ND	ND	
79 cis-1,3-Dichloropropene	75	9.217	9.217	0.000	96	115901	20.0	17.5	
80 4-Methyl-2-pentanone (MIBK)	43	9.374	9.381	-0.007	96	1903569	250.0	214.9	
$ 81 Toluene-d8 (Surr)	98	9.539	9.538	0.001	93	796921	50.0	52.3	
82 Toluene	92	9.617	9.617	0.000	98	201071	20.0	20.8	
83 trans-1,3-Dichloropropene	75	9.882	9.882	0.000	92	113352	20.0	19.7	
84 Ethyl methacrylate	69	9.946	9.946	0.000	88	129132	20.0	17.6	
126 1,1,2-Trichloroethane	97	10.089	10.089	0.000	90	78354	20.0	19.9	
127 Tetrachloroethene	166	10.189	10.189	0.000	96	81524	20.0	19.7	
128 1,3-Dichloropropane	76	10.254	10.253	0.001	90	128277	20.0	20.3	
129 2-Hexanone	43	10.304	10.303	0.001	96	1359101	250.0	226.3	
132 Chlorodibromomethane	129	10.482	10.482	0.000	90	80126	20.0	19.6	
133 Ethylene Dibromide	107	10.597	10.597	0.000	99	81030	20.0	19.5	
* 134 Chlorobenzene-d5 (IS)	117	11.033	11.033	0.000	86	584407	50.0	50.0	
135 1-Chlorohexane	91	11.047	11.047	0.000	97	97865	20.0	18.3	
136 Chlorobenzene	112	11.062	11.061	0.001	95	225762	20.0	20.3	
137 1,1,1,2-Tetrachloroethane	131	11.147	11.147	0.000	94	83528	20.0	19.0	
138 Ethylbenzene	91	11.147	11.147	0.000	99	395012	20.0	19.7	
140 m-Xylene & p-Xylene	106	11.269	11.269	0.000	99	311010	40.0	39.5	
142 o-Xylene	106	11.598	11.598	0.000	96	155695	20.0	18.6	
143 Styrene	104	11.619	11.619	0.000	93	247405	20.0	18.6	
144 Bromoform	173	11.777	11.776	0.001	96	59244	20.0	17.2	
145 Isopropylbenzene	105	11.905	11.905	0.000	96	415291	20.0	20.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 148 4-Bromofluorobenzene (Surr)	95	12.055	12.055	0.000	88	288385	50.0	48.3	
149 1,1,2,2-Tetrachloroethane	83	12.148	12.148	0.000	94	144543	20.0	18.8	
150 Bromobenzene	156	12.170	12.170	0.000	97	97027	20.0	19.0	
151 trans-1,4-Dichloro-2-butene	53	12.177	12.177	0.000	88	63828	100.0	30.6	
152 1,2,3-Trichloropropane	110	12.198	12.198	0.000	84	45648	20.0	19.3	
153 N-Propylbenzene	91	12.241	12.241	0.000	99	485615	20.0	20.5	
154 2-Chlorotoluene	126	12.313	12.313	0.000	96	100594	20.0	19.8	
155 1,3,5-Trimethylbenzene	105	12.377	12.377	0.000	93	368702	20.0	20.0	
156 4-Chlorotoluene	126	12.406	12.406	0.000	98	97263	20.0	19.9	
158 tert-Butylbenzene	134	12.620	12.620	0.000	93	69063	20.0	20.0	
160 1,2,4-Trimethylbenzene	105	12.663	12.663	0.000	98	376347	20.0	19.6	
161 sec-Butylbenzene	105	12.785	12.785	0.000	94	462924	20.0	19.9	
162 1,3-Dichlorobenzene	146	12.885	12.885	0.000	97	196685	20.0	19.1	
163 4-Isopropyltoluene	119	12.892	12.892	0.000	96	398845	20.0	19.1	
* 164 1,4-Dichlorobenzene-d4	152	12.942	12.942	0.000	96	335699	50.0	50.0	
165 1,4-Dichlorobenzene	146	12.956	12.956	0.000	93	206165	20.0	19.4	
166 1,2,3-Trimethylbenzene	105	12.964	12.970	-0.006	98	380628	20.0	18.4	
167 Benzyl chloride	91	13.035	13.035	0.000	98	282666	20.0	18.1	
168 1,3-Diethylbenzene	119	13.092	13.092	0.000	96	242570	20.0	19.5	
169 p-Diethylbenzene	119	13.171	13.171	0.000	95	257457	20.0	19.8	
170 n-Butylbenzene	92	13.185	13.185	0.000	98	215275	20.0	20.6	
171 1,2-Dichlorobenzene	146	13.214	13.214	0.000	97	208022	20.0	18.7	
172 o-diethylbenzene	119	13.242	13.242	0.000	95	202069	20.0	19.2	
175 1,2-Dibromo-3-Chloropropane	75	13.764	13.757	0.007	83	42069	20.0	16.9	
176 1,3,5-Trichlorobenzene	180	13.893	13.893	0.000	97	167766	20.0	18.7	
177 1,2,4-Trichlorobenzene	180	14.315	14.315	0.000	94	170982	20.0	18.5	
179 Hexachlorobutadiene	225	14.401	14.400	0.001	97	67978	20.0	20.4	
180 Naphthalene	128	14.494	14.493	0.001	97	609110	20.0	17.3	
181 1,2,3-Trichlorobenzene	180	14.637	14.636	0.001	95	167488	20.0	17.7	
182 2-Methylnaphthalene	142	15.252	15.251	0.001	91	357907	20.0	18.0	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_2CEVE_00179	Amount Added: 50.00	Units: uL	
MSV_LCS_ACROL_00178	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00206	Amount Added: 50.00	Units: uL	
MSV_LCS_VOC#1_00175	Amount Added: 50.00	Units: uL	
MSV_HP20_ISSS_00137	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 09-Jul-2024 14:35:04 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X33.D

Injection Date: 08-Jul-2024 21:17:30 Instrument ID: 9355 Operator ID: MEC29284

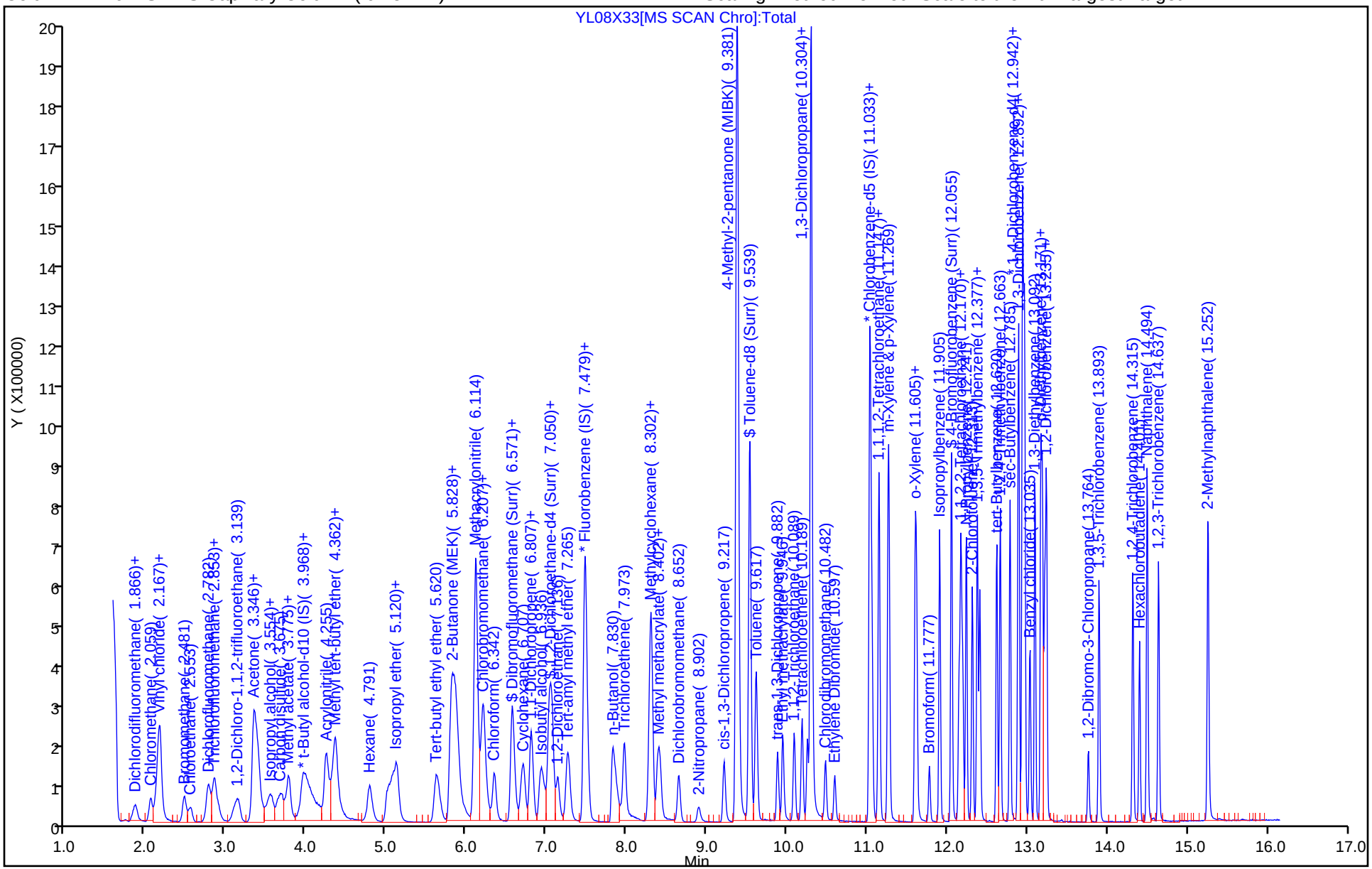
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: MSVoa_9355 Limit Group: MSV - 8260C_D

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



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\YL08X33.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 08-Jul-2024 21:17:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118782-004
Misc. Info.: LCS
Operator ID: MEC29284 Instrument ID: 9355

Method: \\chromfs\Lancaster\ChromData\9355\20240708-118782.b\MSVoa_9355.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2024 01:15:36 Calib Date: 25-Mar-2024 20:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\9355\20240325-109476.b\YM25X21.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1617

First Level Reviewer: K4WN Date: 08-Jul-2024 21:47:37

Compound	Amount Added	Amount Recovered	% Rec.
$ 52 Dibromofluoromethane (Surr)	50.0	49.3	98.61
$ 58 1,2-Dichloroethane-d4 (Surr)	50.0	49.2	98.44
$ 81 Toluene-d8 (Surr)	50.0	52.3	104.63
$ 148 4-Bromofluorobenzene (Surr)	50.0	48.3	96.55

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Instrument ID: 9355 Start Date: 03/25/2024 12:49

Analysis Batch Number: 486676 End Date: 03/25/2024 20:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-486676/1		03/25/2024 12:49	1	YM25T01.D	R-624SilMS 30m 0.25(mm)
IC 410-486676/3		03/25/2024 13:30	1	YM25X02.D	R-624SilMS 30m 0.25(mm)
IC 410-486676/4		03/25/2024 13:52	1	YM25X03.D	R-624SilMS 30m 0.25(mm)
IC 410-486676/5		03/25/2024 14:14	1	YM25X04.D	R-624SilMS 30m 0.25(mm)
IC 410-486676/6		03/25/2024 14:37	1	YM25X05.D	R-624SilMS 30m 0.25(mm)
CCV 410-486676/1006		03/25/2024 14:37	1		R-624SilMS 30m 0.25(mm)
IC 410-486676/7		03/25/2024 14:59	1	YM25X06.D	R-624SilMS 30m 0.25(mm)
IC 410-486676/8		03/25/2024 15:21	1	YM25X07.D	R-624SilMS 30m 0.25(mm)
ICV 410-486676/10		03/25/2024 16:05	1		R-624SilMS 30m 0.25(mm)
IC 410-486676/12		03/25/2024 16:50	1	YM25X11.D	R-624SilMS 30m 0.25(mm)
IC 410-486676/13		03/25/2024 17:12	1	YM25X12.D	R-624SilMS 30m 0.25(mm)
IC 410-486676/15		03/25/2024 17:56	1	YM25X14.D	R-624SilMS 30m 0.25(mm)
ICIS 410-486676/16		03/25/2024 18:19	1	YM25X15.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-486676/1016		03/25/2024 18:19	1		R-624SilMS 30m 0.25(mm)
IC 410-486676/17		03/25/2024 18:41	1	YM25X16.D	R-624SilMS 30m 0.25(mm)
IC 410-486676/18		03/25/2024 19:03	1	YM25X17.D	R-624SilMS 30m 0.25(mm)
ICV 410-486676/20		03/25/2024 19:47	1	YM25X19.D	R-624SilMS 30m 0.25(mm)
IC 410-486676/14		03/25/2024 20:33	1	YM25X21.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177862-1

SDG No.:

Instrument ID: 9355 Start Date: 07/08/2024 20:17

Analysis Batch Number: 525820 End Date: 07/09/2024 06:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-525820/1		07/08/2024 20:17	1	YL08T31.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-525820/3		07/08/2024 20:55	1	YL08X32.D	R-624SilMS 30m 0.25(mm)
LCS 410-525820/4		07/08/2024 21:17	1	YL08X33.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/08/2024 21:40	1		R-624SilMS 30m 0.25(mm)
MB 410-525820/6		07/08/2024 22:03	1	YL08X35.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/08/2024 22:25	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/08/2024 22:47	200		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/08/2024 23:10	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/08/2024 23:32	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/08/2024 23:55	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 00:17	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 00:40	1		R-624SilMS 30m 0.25(mm)
410-177862-1	HD-MW-166-0/1-0	07/09/2024 01:02	1	YL08X43.D	R-624SilMS 30m 0.25(mm)
410-177862-2	HD-MW-167-0/1-0	07/09/2024 01:24	1	YL08X44.D	R-624SilMS 30m 0.25(mm)
410-177862-3	HD-MW-168-0/1-0	07/09/2024 01:47	1	YL08X45.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 02:09	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 02:31	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 02:53	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 03:16	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 03:38	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 04:00	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 04:22	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 04:45	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 05:07	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 05:29	10		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 05:51	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 06:36	20		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 06:58	200		R-624SilMS 30m 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-177862-1

SDG No.:

Batch Number: 486676 | Batch Start Date: 03/25/24 12:49 | Batch Analyst: Campbell, Miranda E

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Lot#Vial	MSV_4ppbEE 00576	MSV_CCV_2CEVE 00168	MSV_CCV_CYC 00008
BFB 410-486676/1		8260D			1 uL	1 uL				
IC 410-486676/3		8260D			5 mL	5 mL	2731			
IC 410-486676/4		8260D			5 mL	5 mL	2731			
IC 410-486676/5		8260D			5 mL	5 mL	2731			
IC 410-486676/6		8260D			5 mL	5 mL	2731			
IC 410-486676/7		8260D			5 mL	5 mL	2731			
IC 410-486676/8		8260D			5 mL	5 mL	2731			
IC 410-486676/12		8260D			5 mL	5 mL	2731	12.5 mL		
IC 410-486676/13		8260D			5 mL	5 mL	2731		4 uL	32 uL
IC 410-486676/14		8260D			5 mL	5 mL	2731		2 uL	8 uL
IC 410-486676/15		8260D			5 mL	5 mL	2731		4 uL	16 uL
ICIS 410-486676/16		8260D			5 mL	5 mL	2731		5 uL	10 uL
IC 410-486676/17		8260D			5 mL	5 mL	2731		5 uL	10 uL
IC 410-486676/18		8260D			5 mL	5 mL	2731		15 uL	30 uL
ICV 410-486676/20		8260D			5 mL	5 mL	2731			

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_EE 00006	MSV_CCV_ETOH 00005	MSV_CCV_GASES 00760	MSV_CCV_LKB 00009	MSV_CCV_OH_Sp 00009	MSV_CCV_Penta 00046
BFB 410-486676/1		8260D								
IC 410-486676/3		8260D				20 uL		4 uL		4 uL
IC 410-486676/4		8260D				8 uL		2 uL		2 uL
IC 410-486676/5		8260D				16 uL		4 uL		4 uL
IC 410-486676/6		8260D				10 uL		5 uL		5 uL
IC 410-486676/7		8260D				10 uL		5 uL		5 uL
IC 410-486676/8		8260D				30 uL		15 uL		15 uL
IC 410-486676/12		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 Laboratories | Job No.: 410-177862-1

SDG No.:

Batch Number: 486676 | Batch Start Date: 03/25/24 12:49 | Batch Analyst: Campbell, Miranda E

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_EE 00006	MSV_CCV_ETOH 00005	MSV_CCV_GASES 00760	MSV_CCV_LKB 00009	MSV_CCV_OH_Sp 00009	MSV_CCV_Penta 00046
IC 410-486676/13		8260D			4 uL		2 uL		4 uL	
IC 410-486676/14		8260D			2 uL		1 uL		2 uL	
IC 410-486676/15		8260D			4 uL		2 uL		4 uL	
ICIS 410-486676/16		8260D			5 uL		2.5 uL		5 uL	
IC 410-486676/17		8260D			5 uL		2.5 uL		5 uL	
IC 410-486676/18		8260D			15 uL		7.5 uL		15 uL	
ICV 410-486676/20		8260D								

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_V5ACE 00034	MSV_CCV_VOC#1 00176	MSV_CCV_VOC#3 00172	MSV_HP20_ISO 00010	MSV_HP20_ISSS 00129	MSV_LCS_2CEVE 00164
BFB 410-486676/1		8260D								
IC 410-486676/3		8260D			4 uL			1 uL		
IC 410-486676/4		8260D			2 uL			1 uL		
IC 410-486676/5		8260D			4 uL			1 uL		
IC 410-486676/6		8260D			5 uL			1 uL		
IC 410-486676/7		8260D			5 uL			1 uL		
IC 410-486676/8		8260D			15 uL			1 uL		
IC 410-486676/12		8260D							1 uL	
IC 410-486676/13		8260D				4 uL	3.2 uL		1 uL	
IC 410-486676/14		8260D				2 uL	1.6 uL		1 uL	
IC 410-486676/15		8260D				4 uL	3.2 uL		1 uL	
ICIS 410-486676/16		8260D				5 uL	4 uL		1 uL	
IC 410-486676/17		8260D				5 uL	4 uL		1 uL	
IC 410-486676/18		8260D				15 uL	12 uL		1 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-177862-1

SDG No.:

Batch Number: 486676 | Batch Start Date: 03/25/24 12:49 | Batch Analyst: Campbell, Miranda E

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_V5ACE 00034	MSV_CCV_VOC#1 00176	MSV_CCV_VOC#3 00172	MSV_HP20_ISO 00010	MSV_HP20_ISSS 00129	MSV_LCS_2CEVE 00164
ICV 410-486676/20		8260D							1 uL	50 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_ACROL 00160	MSV_LCS_CYC 00008	MSV_LCS_EE 00008	MSV_LCS_Gases 00190	MSV_LCS_OH_Sp 00011	MSV_LCS_VOC#1 00159
BFB 410-486676/1		8260D								
IC 410-486676/3		8260D								
IC 410-486676/4		8260D								
IC 410-486676/5		8260D								
IC 410-486676/6		8260D								
IC 410-486676/7		8260D								
IC 410-486676/8		8260D								
IC 410-486676/12		8260D								
IC 410-486676/13		8260D								
IC 410-486676/14		8260D								
IC 410-486676/15		8260D								
ICIS 410-486676/16		8260D								
IC 410-486676/17		8260D								
IC 410-486676/18		8260D								
ICV 410-486676/20		8260D			50 uL	50 uL	50 uL	50 uL	50 uL	50 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_V_BFB 00016	MSV_V_SMFreon 00036				
BFB 410-486676/1		8260D			1 uL					
IC 410-486676/3		8260D				2 uL				
IC 410-486676/4		8260D				1 uL				
IC 410-486676/5		8260D				2 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177862-1

SDG No.:

Batch Number: 486676 Batch Start Date: 03/25/24 12:49 Batch Analyst: Campbell, Miranda E

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_V_BFB 00016	MSV_V_SMFreon 00036				
IC 410-486676/6		8260D				2.5 uL				
IC 410-486676/7		8260D				2.5 uL				
IC 410-486676/8		8260D				7.5 uL				
IC 410-486676/12		8260D								
IC 410-486676/13		8260D								
IC 410-486676/14		8260D								
IC 410-486676/15		8260D								
ICIS 410-486676/16		8260D								
IC 410-486676/17		8260D								
IC 410-486676/18		8260D								
ICV 410-486676/20		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 Laboratories | Job No.: 410-177862-1

SDG No.:

Batch Number: 525820 | Batch Start Date: 07/08/24 20:17 | Batch Analyst: Campbell, Miranda E

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-525820/1		8260D			1 uL	1 uL				
CCVIS 410-525820/3		8260D			5 mL	5 mL				2750
LCS 410-525820/4		8260D			5 mL	5 mL				2750
MB 410-525820/6		8260D			5 mL	5 mL				2750
410-177862-A-1	HD-MW-166-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-177862-A-2	HD-MW-167-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-177862-A-3	HD-MW-168-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_2CEVE 00183	MSV_CCV_GASES 00797	MSV_CCV_VOC#1 00191	MSV_CCV_VOC#3 00187	MSV_HP20_ISSS 00137	MSV_LCS_2CEVE 00179
BFB 410-525820/1		8260D								
CCVIS 410-525820/3		8260D			5 uL	2.5 uL	5 uL	4 uL	1 uL	
LCS 410-525820/4		8260D							1 uL	50 uL
MB 410-525820/6		8260D							1 uL	
410-177862-A-1	HD-MW-166-0/1-0	8260D	Water	T					1 uL	
410-177862-A-2	HD-MW-167-0/1-0	8260D	Water	T					1 uL	
410-177862-A-3	HD-MW-168-0/1-0	8260D	Water	T					1 uL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_ACROL 00178	MSV_LCS_Gases 00206	MSV_LCS_VOC#1 00175	MSV_V_BFB 00017		
BFB 410-525820/1		8260D						1 uL		
CCVIS 410-525820/3		8260D								
LCS 410-525820/4		8260D			50 uL	50 uL	50 uL			
MB 410-525820/6		8260D								
410-177862-A-1	HD-MW-166-0/1-0	8260D	Water	T						
410-177862-A-2	HD-MW-167-0/1-0	8260D	Water	T						
410-177862-A-3	HD-MW-168-0/1-0	8260D	Water	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-177862-1

SDG No.:

Batch Number: 525820 | Batch Start Date: 07/08/24 20:17 | Batch Analyst: Campbell, Miranda E

Batch Method: 8260D | Batch End Date:

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

s Environme

Chain of Custody Record

370472
HARRISBURG PA

eurofins | Environment Testing

410-177862 Chain of Custody

Client Contact: Casey Littlefield	Sampler: Casey Littlefield	Lab PM: Gallagher, Kelly	Carrier Tracking No(s): NA	COC No: 410-124621-34443.2
	Phone: 717-395-3150	E-Mail: kelly.gallagher@et.eurofinsus.com	State of Origin: PA	Page: Page 1 of 1
Company: Groundwater Sciences Corporation	PWSID:			Job #:
Address: 2550 Interstate Drive Suite 303	Due Date Requested:			
City: Harrisburg	TAT Requested (days): STANDARD			
State, Zip: PA, 17110	Compliance Project: Δ Yes ☑ No			
Phone: 717-901-8176 / 717-756-1246	PO #: Purchase Order not required 10012.52			
Email: clittlefield@groundwatersciences.com	WO #:			
Project Name: fYNOP - SPBA Quarterly	Project #: 41001716			
Site: fyNOP	SSOW#:			

Analysis Requested

Preservation Codes: A - HCL

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D_LL - QAPP List LL, updated 12012020 (ml	8260D - QAPP List SL, updated 12012020 (ml	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	A		
HD-MW-166-01-0	6/26/24	0915	G	Water	N	N		X	3	All samples preserved
HD-MW-167-01-0	6/26/24	0905	G	Water	N	N		X	3	on ice
HD-MW-168-01-0	6/26/24	0900	G	Water	N	N		X	3	
HD-QC1-01-2	6/25/24	—	G	Water	N	N		X	2	Trip Blank for all samples
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)
Same as previous reports

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 6/26/24 1231	Company: GSC	Received by:	Date/Time: 6/26/24 1231	Company: ET-A
Relinquished by:	Date/Time: 6/27/24 1346	Company: ET-A	Received by:	Date/Time: 6/27/24 1346	Company: ELLE
Relinquished by:	Date/Time: 6/27/24 1453	Company: ELLE	Received by:	Date/Time: 6/27/24 1453	Company: ELLE

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: R: 1.9 C: 1.8

NP

Login Sample Receipt Checklist

Client: Groundwater Sciences Corporation

Job Number: 410-177862-1

Login Number: 177862

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: Santiago, Nathaniel

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	