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ANALYTICAL REPORT

PREPARED FOR

Attn: Emily Wade
Hydro-Terra Group
1106 Business Parkway South
Suite E
Westminster MD 21157

Generated 07/10/2024

JOB DESCRIPTION

fyNOP Quarterly Event

JOB NUMBER

410-177784-1

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

See page two for job notes and contact information.

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

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Generated
07/10/2024

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Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· 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 is 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.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. The foregoing express warranty is exclusive and is given in lieu of all other warranties, expressed or implied, except as otherwise agreed. We disclaim any other warranties, expressed or implied, including a warranty of fitness for particular purpose and warranty of merchantability. In no event shall Eurofins Lancaster Laboratories Environmental, LLC be liable for indirect, special, consequential, or incidental damages including, but not limited to, damages for loss of profit or goodwill regardless of (A) the negligence (either sole or concurrent) of Eurofins Lancaster Laboratories Environmental and (B) whether Eurofins Lancaster Laboratories Environmental has been informed of the possibility of such damages. We accept no legal responsibility for the purposes for which the client uses the test results. Except as otherwise agreed, no purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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
410-177784-1

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 1.3°C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 410-525900 recovered outside acceptance criteria, low biased, for Bromomethane, Chloroethane, Chloromethane and Vinyl chloride. A reporting limit (RL) standard was analyzed and 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: Hydro-Terra Group
Project/Site: fyNOP Quarterly Event

Job ID: 410-177784-1

Client Sample ID: HD-CW-21-0/1-0 — Lab Sample ID: 410-177784-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	120		1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	0.73	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-CW-22-0/1-0 — Lab Sample ID: 410-177784-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	56		1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	1.0		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: HD-CW-23-0/1-0 — Lab Sample ID: 410-177784-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	34		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-SPBA-EFF-0/1-0 — Lab Sample ID: 410-177784-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	95		1.0	0.30	ug/L	1		8260D	Total/NA
Trichloroethene	0.76	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 410-177784-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.4	J	20	0.70	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: HD-CW-21-0/1-0
Lab Sample ID: 410-177784-1

Date Collected: 06/26/24 10:46
Matrix: Groundwater
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 13:45	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/09/24 13:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/09/24 13:45	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/09/24 13:45	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/09/24 13:45	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/09/24 13:45	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			07/09/24 13:45	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/09/24 13:45	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/09/24 13:45	1
2-Butanone (MEK)	ND		10	0.50	ug/L			07/09/24 13:45	1
2-Hexanone	ND		10	0.85	ug/L			07/09/24 13:45	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			07/09/24 13:45	1
Acetone	ND		20	0.70	ug/L			07/09/24 13:45	1
Benzene	ND		1.0	0.30	ug/L			07/09/24 13:45	1
Bromochloromethane	ND		5.0	0.20	ug/L			07/09/24 13:45	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/09/24 13:45	1
Bromoform	ND		4.0	1.0	ug/L			07/09/24 13:45	1
Bromomethane	ND	^c cn	1.0	0.30	ug/L			07/09/24 13:45	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/09/24 13:45	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/09/24 13:45	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/09/24 13:45	1
Chloroethane	ND	^c cn	1.0	0.30	ug/L			07/09/24 13:45	1
Chloroform	ND		1.0	0.30	ug/L			07/09/24 13:45	1
Chloromethane	ND	^c cn	2.0	0.55	ug/L			07/09/24 13:45	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/09/24 13:45	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/09/24 13:45	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/09/24 13:45	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/09/24 13:45	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/09/24 13:45	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/09/24 13:45	1
Styrene	ND		5.0	0.30	ug/L			07/09/24 13:45	1
Tetrachloroethene	**120**		1.0	0.30	ug/L			07/09/24 13:45	1
Toluene	ND		1.0	0.30	ug/L			07/09/24 13:45	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/09/24 13:45	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/09/24 13:45	1
Trichloroethene	**0.73**	**J**	1.0	0.30	ug/L			07/09/24 13:45	1
Vinyl chloride	ND	^c cn	1.0	0.30	ug/L			07/09/24 13:45	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/09/24 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*07/09/24 13:45*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*07/09/24 13:45*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*07/09/24 13:45*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*07/09/24 13:45*	*1*

Client Sample ID: HD-CW-22-0/1-0
Lab Sample ID: 410-177784-2

Date Collected: 06/26/24 10:53
Matrix: Groundwater
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 14:07	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/09/24 14:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/09/24 14:07	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/09/24 14:07	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/09/24 14:07	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/09/24 14:07	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			07/09/24 14:07	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/09/24 14:07	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/09/24 14:07	1
2-Butanone (MEK)	ND		10	0.50	ug/L			07/09/24 14:07	1
2-Hexanone	ND		10	0.85	ug/L			07/09/24 14:07	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			07/09/24 14:07	1
Acetone	ND		20	0.70	ug/L			07/09/24 14:07	1
Benzene	ND		1.0	0.30	ug/L			07/09/24 14:07	1
Bromochloromethane	ND		5.0	0.20	ug/L			07/09/24 14:07	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/09/24 14:07	1
Bromoform	ND		4.0	1.0	ug/L			07/09/24 14:07	1
Bromomethane	ND	^c cn	1.0	0.30	ug/L			07/09/24 14:07	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/09/24 14:07	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/09/24 14:07	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/09/24 14:07	1
Chloroethane	ND	^c cn	1.0	0.30	ug/L			07/09/24 14:07	1
Chloroform	ND		1.0	0.30	ug/L			07/09/24 14:07	1
Chloromethane	ND	^c cn	2.0	0.55	ug/L			07/09/24 14:07	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/09/24 14:07	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/09/24 14:07	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/09/24 14:07	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/09/24 14:07	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/09/24 14:07	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/09/24 14:07	1
Styrene	ND		5.0	0.30	ug/L			07/09/24 14:07	1
Tetrachloroethene	**56**		1.0	0.30	ug/L			07/09/24 14:07	1
Toluene	ND		1.0	0.30	ug/L			07/09/24 14:07	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/09/24 14:07	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/09/24 14:07	1
Trichloroethene	**1.0**		1.0	0.30	ug/L			07/09/24 14:07	1
Vinyl chloride	ND	^c cn	1.0	0.30	ug/L			07/09/24 14:07	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/09/24 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*07/09/24 14:07*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*		*07/09/24 14:07*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*07/09/24 14:07*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/09/24 14:07*	*1*

Client Sample ID: HD-CW-23-0/1-0
Lab Sample ID: 410-177784-3

Date Collected: 06/26/24 11:00
Matrix: Groundwater
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 14:30	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/09/24 14:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/09/24 14:30	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/09/24 14:30	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/09/24 14:30	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/09/24 14:30	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			07/09/24 14:30	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/09/24 14:30	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/09/24 14:30	1
2-Butanone (MEK)	ND		10	0.50	ug/L			07/09/24 14:30	1
2-Hexanone	ND		10	0.85	ug/L			07/09/24 14:30	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			07/09/24 14:30	1
Acetone	ND		20	0.70	ug/L			07/09/24 14:30	1
Benzene	ND		1.0	0.30	ug/L			07/09/24 14:30	1
Bromochloromethane	ND		5.0	0.20	ug/L			07/09/24 14:30	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/09/24 14:30	1
Bromoform	ND		4.0	1.0	ug/L			07/09/24 14:30	1
Bromomethane	ND	^c cn	1.0	0.30	ug/L			07/09/24 14:30	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/09/24 14:30	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/09/24 14:30	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/09/24 14:30	1
Chloroethane	ND	^c cn	1.0	0.30	ug/L			07/09/24 14:30	1
Chloroform	ND		1.0	0.30	ug/L			07/09/24 14:30	1
Chloromethane	ND	^c cn	2.0	0.55	ug/L			07/09/24 14:30	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/09/24 14:30	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/09/24 14:30	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/09/24 14:30	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/09/24 14:30	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/09/24 14:30	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/09/24 14:30	1
Styrene	ND		5.0	0.30	ug/L			07/09/24 14:30	1
Tetrachloroethene	**34**		1.0	0.30	ug/L			07/09/24 14:30	1
Toluene	ND		1.0	0.30	ug/L			07/09/24 14:30	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/09/24 14:30	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/09/24 14:30	1
Trichloroethene	**0.43**	**J**	1.0	0.30	ug/L			07/09/24 14:30	1
Vinyl chloride	ND	^c cn	1.0	0.30	ug/L			07/09/24 14:30	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/09/24 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*07/09/24 14:30*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*07/09/24 14:30*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*07/09/24 14:30*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/09/24 14:30*	*1*

Client Sample ID: HD-SPBA-EFF-0/1-0
Lab Sample ID: 410-177784-4

Date Collected: 06/26/24 11:06
Matrix: Groundwater
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 14:52	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/09/24 14:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/09/24 14:52	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/09/24 14:52	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/09/24 14:52	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/09/24 14:52	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			07/09/24 14:52	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/09/24 14:52	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/09/24 14:52	1
2-Butanone (MEK)	ND		10	0.50	ug/L			07/09/24 14:52	1
2-Hexanone	ND		10	0.85	ug/L			07/09/24 14:52	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			07/09/24 14:52	1
Acetone	ND		20	0.70	ug/L			07/09/24 14:52	1
Benzene	ND		1.0	0.30	ug/L			07/09/24 14:52	1
Bromochloromethane	ND		5.0	0.20	ug/L			07/09/24 14:52	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/09/24 14:52	1
Bromoform	ND		4.0	1.0	ug/L			07/09/24 14:52	1
Bromomethane	ND	^c cn	1.0	0.30	ug/L			07/09/24 14:52	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/09/24 14:52	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/09/24 14:52	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/09/24 14:52	1
Chloroethane	ND	^c cn	1.0	0.30	ug/L			07/09/24 14:52	1
Chloroform	ND		1.0	0.30	ug/L			07/09/24 14:52	1
Chloromethane	ND	^c cn	2.0	0.55	ug/L			07/09/24 14:52	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/09/24 14:52	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/09/24 14:52	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/09/24 14:52	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/09/24 14:52	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/09/24 14:52	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/09/24 14:52	1
Styrene	ND		5.0	0.30	ug/L			07/09/24 14:52	1
Tetrachloroethene	**95**		1.0	0.30	ug/L			07/09/24 14:52	1
Toluene	ND		1.0	0.30	ug/L			07/09/24 14:52	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/09/24 14:52	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/09/24 14:52	1
Trichloroethene	**0.76**	**J**	1.0	0.30	ug/L			07/09/24 14:52	1
Vinyl chloride	ND	^c cn	1.0	0.30	ug/L			07/09/24 14:52	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/09/24 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*		*07/09/24 14:52*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*07/09/24 14:52*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*07/09/24 14:52*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/09/24 14:52*	*1*

Client Sample ID: Trip Blank
Lab Sample ID: 410-177784-5

Date Collected: 06/26/24 00:00
Matrix: WQ
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 15:15	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/09/24 15:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/09/24 15:15	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/09/24 15:15	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/09/24 15:15	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/09/24 15:15	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			07/09/24 15:15	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/09/24 15:15	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/09/24 15:15	1
2-Butanone (MEK)	ND		10	0.50	ug/L			07/09/24 15:15	1
2-Hexanone	ND		10	0.85	ug/L			07/09/24 15:15	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			07/09/24 15:15	1
Acetone	**1.4**	**J**	20	0.70	ug/L			07/09/24 15:15	1
Benzene	ND		1.0	0.30	ug/L			07/09/24 15:15	1
Bromochloromethane	ND		5.0	0.20	ug/L			07/09/24 15:15	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/09/24 15:15	1
Bromoform	ND		4.0	1.0	ug/L			07/09/24 15:15	1
Bromomethane	ND	^c cn	1.0	0.30	ug/L			07/09/24 15:15	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/09/24 15:15	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/09/24 15:15	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/09/24 15:15	1
Chloroethane	ND	^c cn	1.0	0.30	ug/L			07/09/24 15:15	1
Chloroform	ND		1.0	0.30	ug/L			07/09/24 15:15	1
Chloromethane	ND	^c cn	2.0	0.55	ug/L			07/09/24 15:15	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/09/24 15:15	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/09/24 15:15	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/09/24 15:15	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/09/24 15:15	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/09/24 15:15	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/09/24 15:15	1
Styrene	ND		5.0	0.30	ug/L			07/09/24 15:15	1
Tetrachloroethene	ND		1.0	0.30	ug/L			07/09/24 15:15	1
Toluene	ND		1.0	0.30	ug/L			07/09/24 15:15	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/09/24 15:15	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/09/24 15:15	1
Trichloroethene	ND		1.0	0.30	ug/L			07/09/24 15:15	1
Vinyl chloride	ND	^c cn	1.0	0.30	ug/L			07/09/24 15:15	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/09/24 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*07/09/24 15:15*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*		*07/09/24 15:15*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*07/09/24 15:15*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/09/24 15:15*	*1*

Default Detection Limits

Client: Hydro-Terra Group
Job ID: 410-177784-1
Project/Site: fyNOP Quarterly Event

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-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
Ethylene Dibromide	1.0	0.20	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: Hydro-Terra Group
Job ID: 410-177784-1
Project/Site: fyNOP Quarterly Event

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

Matrix: Groundwater

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)
410-177784-1	HD-CW-21-0/1-0	103	95	105	101
410-177784-2	HD-CW-22-0/1-0	104	96	105	99
410-177784-3	HD-CW-23-0/1-0	104	94	105	99
410-177784-4	HD-SPBA-EFF-0/1-0	100	94	105	100

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

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)
LCS 410-525900/4	Lab Control Sample	102	96	105	100
LCSD 410-525900/5	Lab Control Sample Dup	101	96	105	101
MB 410-525900/7	Method Blank	103	97	105	99

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

Matrix: WQ

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)
410-177784-5	Trip Blank	105	95	108	99

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 410-525900/7
Matrix: Water
Analysis Batch: 525900

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			07/09/24 10:58	1
1,1,1-Trichloroethane	ND		1.0	0.30	ug/L			07/09/24 10:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.30	ug/L			07/09/24 10:58	1
1,1,2-Trichloroethane	ND		1.0	0.30	ug/L			07/09/24 10:58	1
1,1-Dichloroethane	ND		1.0	0.30	ug/L			07/09/24 10:58	1
1,1-Dichloroethene	ND		1.0	0.30	ug/L			07/09/24 10:58	1
Ethylene Dibromide	ND		1.0	0.20	ug/L			07/09/24 10:58	1
1,2-Dichloroethane	ND		1.0	0.30	ug/L			07/09/24 10:58	1
1,2-Dichloropropane	ND		1.0	0.30	ug/L			07/09/24 10:58	1
2-Butanone (MEK)	ND		10	0.50	ug/L			07/09/24 10:58	1
2-Hexanone	ND		10	0.85	ug/L			07/09/24 10:58	1
4-Methyl-2-pentanone (MIBK)	ND		10	0.50	ug/L			07/09/24 10:58	1
Acetone	ND		20	0.70	ug/L			07/09/24 10:58	1
Benzene	ND		1.0	0.30	ug/L			07/09/24 10:58	1
Bromochloromethane	ND		5.0	0.20	ug/L			07/09/24 10:58	1
Bromodichloromethane	ND		1.0	0.20	ug/L			07/09/24 10:58	1
Bromoform	ND		4.0	1.0	ug/L			07/09/24 10:58	1
Bromomethane	ND		1.0	0.30	ug/L			07/09/24 10:58	1
Carbon disulfide	ND		5.0	0.30	ug/L			07/09/24 10:58	1
Carbon tetrachloride	ND		1.0	0.30	ug/L			07/09/24 10:58	1
Chlorobenzene	ND		1.0	0.30	ug/L			07/09/24 10:58	1
Chloroethane	ND		1.0	0.30	ug/L			07/09/24 10:58	1
Chloroform	ND		1.0	0.30	ug/L			07/09/24 10:58	1
Chloromethane	ND		2.0	0.55	ug/L			07/09/24 10:58	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/09/24 10:58	1
cis-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/09/24 10:58	1
Dibromochloromethane	ND		1.0	0.20	ug/L			07/09/24 10:58	1
Ethylbenzene	ND		1.0	0.40	ug/L			07/09/24 10:58	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/09/24 10:58	1
Methylene Chloride	ND		1.0	0.30	ug/L			07/09/24 10:58	1
Styrene	ND		5.0	0.30	ug/L			07/09/24 10:58	1
Tetrachloroethene	ND		1.0	0.30	ug/L			07/09/24 10:58	1
Toluene	ND		1.0	0.30	ug/L			07/09/24 10:58	1
trans-1,2-Dichloroethene	ND		2.0	0.70	ug/L			07/09/24 10:58	1
trans-1,3-Dichloropropene	ND		1.0	0.20	ug/L			07/09/24 10:58	1
Trichloroethene	ND		1.0	0.30	ug/L			07/09/24 10:58	1
Vinyl chloride	ND		1.0	0.30	ug/L			07/09/24 10:58	1
Xylenes, Total	ND		1.0	0.40	ug/L			07/09/24 10:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*07/09/24 10:58*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*07/09/24 10:58*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*07/09/24 10:58*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/09/24 10:58*	*1*

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

Lab Sample ID: LCS 410-525900/4
Matrix: Water
Analysis Batch: 525900

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	21.2		ug/L		106	79 - 120
1,1,1-Trichloroethane	20.0	20.7		ug/L		103	73 - 120
1,1,2,2-Tetrachloroethane	20.0	19.3		ug/L		97	72 - 120
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	80 - 120
1,1-Dichloroethane	20.0	20.0		ug/L		100	80 - 120
1,1-Dichloroethene	20.0	21.4		ug/L		107	80 - 131
Ethylene Dibromide	20.0	20.5		ug/L		102	77 - 120
1,2-Dichloroethane	20.0	19.8		ug/L		99	73 - 124
1,2-Dichloropropane	20.0	19.3		ug/L		97	80 - 120
2-Butanone (MEK)	250	220		ug/L		88	59 - 135
2-Hexanone	250	234		ug/L		93	56 - 135
4-Methyl-2-pentanone (MIBK)	250	214		ug/L		86	62 - 133
Acetone	250	231		ug/L		92	57 - 143
Benzene	20.0	19.6		ug/L		98	80 - 120
Bromochloromethane	20.0	20.8		ug/L		104	80 - 120
Bromodichloromethane	20.0	19.3		ug/L		97	71 - 120
Bromoform	20.0	19.9		ug/L		100	51 - 120
Bromomethane	20.0	17.0		ug/L		85	53 - 128
Carbon disulfide	20.0	19.9		ug/L		99	65 - 128
Carbon tetrachloride	20.0	21.6		ug/L		108	64 - 134
Chlorobenzene	20.0	20.6		ug/L		103	80 - 120
Chloroethane	20.0	17.8		ug/L		89	55 - 123
Chloroform	20.0	18.0		ug/L		90	80 - 120
Chloromethane	20.0	15.0		ug/L		75	39 - 134
cis-1,2-Dichloroethene	20.0	19.9		ug/L		99	80 - 125
cis-1,3-Dichloropropene	20.0	17.6		ug/L		88	75 - 120
Dibromochloromethane	20.0	20.8		ug/L		104	71 - 120
Ethylbenzene	20.0	20.7		ug/L		104	80 - 120
Methyl tert-butyl ether	20.0	17.7		ug/L		89	69 - 122
Methylene Chloride	20.0	20.7		ug/L		104	80 - 120
Styrene	20.0	19.4		ug/L		97	80 - 120
Tetrachloroethene	20.0	22.1		ug/L		110	80 - 120
Toluene	20.0	20.5		ug/L		103	80 - 120
trans-1,2-Dichloroethene	20.0	20.7		ug/L		103	80 - 126
trans-1,3-Dichloropropene	20.0	18.9		ug/L		95	67 - 120
Trichloroethene	20.0	19.3		ug/L		96	80 - 120
Vinyl chloride	20.0	15.6		ug/L		78	56 - 120
Xylenes, Total	60.0	61.0		ug/L		102	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

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

Lab Sample ID: LCSD 410-525900/5
Matrix: Water
Analysis Batch: 525900

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			20.0	21.0		ug/L		105	79 - 120	1	30
1,1,1-Trichloroethane			20.0	20.5		ug/L		103	73 - 120	1	30
1,1,2,2-Tetrachloroethane			20.0	19.3		ug/L		96	72 - 120	0	30
1,1,2-Trichloroethane			20.0	20.1		ug/L		100	80 - 120	1	30
1,1-Dichloroethane			20.0	19.9		ug/L		99	80 - 120	0	30
1,1-Dichloroethene			20.0	22.4		ug/L		112	80 - 131	4	30
Ethylene Dibromide			20.0	20.0		ug/L		100	77 - 120	3	30
1,2-Dichloroethane			20.0	19.3		ug/L		96	73 - 124	3	30
1,2-Dichloropropane			20.0	19.0		ug/L		95	80 - 120	2	30
2-Butanone (MEK)			250	219		ug/L		87	59 - 135	0	30
2-Hexanone			250	236		ug/L		95	56 - 135	1	30
4-Methyl-2-pentanone (MIBK)			250	212		ug/L		85	62 - 133	1	30
Acetone			250	223		ug/L		89	57 - 143	4	30
Benzene			20.0	19.3		ug/L		96	80 - 120	2	30
Bromochloromethane			20.0	21.1		ug/L		106	80 - 120	2	30
Bromodichloromethane			20.0	19.1		ug/L		96	71 - 120	1	30
Bromoform			20.0	20.0		ug/L		100	51 - 120	0	30
Bromomethane			20.0	17.3		ug/L		86	53 - 128	2	30
Carbon disulfide			20.0	20.7		ug/L		103	65 - 128	4	30
Carbon tetrachloride			20.0	21.6		ug/L		108	64 - 134	0	30
Chlorobenzene			20.0	20.1		ug/L		101	80 - 120	3	30
Chloroethane			20.0	18.5		ug/L		93	55 - 123	4	30
Chloroform			20.0	17.9		ug/L		90	80 - 120	0	30
Chloromethane			20.0	15.1		ug/L		76	39 - 134	1	30
cis-1,2-Dichloroethene			20.0	19.7		ug/L		98	80 - 125	1	30
cis-1,3-Dichloropropene			20.0	17.2		ug/L		86	75 - 120	3	30
Dibromochloromethane			20.0	20.4		ug/L		102	71 - 120	2	30
Ethylbenzene			20.0	20.0		ug/L		100	80 - 120	3	30
Methyl tert-butyl ether			20.0	18.2		ug/L		91	69 - 122	3	30
Methylene Chloride			20.0	21.5		ug/L		108	80 - 120	4	30
Styrene			20.0	19.2		ug/L		96	80 - 120	1	30
Tetrachloroethene			20.0	21.8		ug/L		109	80 - 120	1	30
Toluene			20.0	20.2		ug/L		101	80 - 120	2	30
trans-1,2-Dichloroethene			20.0	19.9		ug/L		100	80 - 126	4	30
trans-1,3-Dichloropropene			20.0	18.6		ug/L		93	67 - 120	2	30
Trichloroethene			20.0	19.4		ug/L		97	80 - 120	1	30
Vinyl chloride			20.0	16.0		ug/L		80	56 - 120	3	30
Xylenes, Total			60.0	60.3		ug/L		100	80 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

QC Association Summary

Client: Hydro-Terra Group
Job ID: 410-177784-1
Project/Site: fyNOP Quarterly Event

GC/MS VOA

Analysis Batch: 525900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-177784-1	HD-CW-21-0/1-0	Total/NA	Groundwater	8260D	
410-177784-2	HD-CW-22-0/1-0	Total/NA	Groundwater	8260D	
410-177784-3	HD-CW-23-0/1-0	Total/NA	Groundwater	8260D	
410-177784-4	HD-SPBA-EFF-0/1-0	Total/NA	Groundwater	8260D	
410-177784-5	Trip Blank	Total/NA	WQ	8260D	
MB 410-525900/7	Method Blank	Total/NA	Water	8260D	
LCS 410-525900/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-525900/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: Hydro-Terra Group
Job ID: 410-177784-1
Project/Site: fyNOP Quarterly Event

Client Sample ID: HD-CW-21-0/1-0
Lab Sample ID: 410-177784-1
Date Collected: 06/26/24 10:46
Matrix: Groundwater
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	525900	TQ4J	ELLE	07/09/24 13:45

Client Sample ID: HD-CW-22-0/1-0
Lab Sample ID: 410-177784-2
Date Collected: 06/26/24 10:53
Matrix: Groundwater
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	525900	TQ4J	ELLE	07/09/24 14:07

Client Sample ID: HD-CW-23-0/1-0
Lab Sample ID: 410-177784-3
Date Collected: 06/26/24 11:00
Matrix: Groundwater
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	525900	TQ4J	ELLE	07/09/24 14:30

Client Sample ID: HD-SPBA-EFF-0/1-0
Lab Sample ID: 410-177784-4
Date Collected: 06/26/24 11:06
Matrix: Groundwater
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	525900	TQ4J	ELLE	07/09/24 14:52

Client Sample ID: Trip Blank
Lab Sample ID: 410-177784-5
Date Collected: 06/26/24 00:00
Matrix: WQ
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	525900	TQ4J	ELLE	07/09/24 15:15

Laboratory References:

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

Accreditation/Certification Summary

Client: Hydro-Terra Group
Job ID: 410-177784-1
Project/Site: fyNOP Quarterly Event

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: Hydro-Terra Group
Job ID: 410-177784-1
Project/Site: fyNOP Quarterly Event

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: Hydro-Terra Group
Job ID: 410-177784-1
Project/Site: fyNOP Quarterly Event

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-177784-1	HD-CW-21-0/1-0	Groundwater	06/26/24 10:46	06/27/24 14:53
410-177784-2	HD-CW-22-0/1-0	Groundwater	06/26/24 10:53	06/27/24 14:53
410-177784-3	HD-CW-23-0/1-0	Groundwater	06/26/24 11:00	06/27/24 14:53
410-177784-4	HD-SPBA-EFF-0/1-0	Groundwater	06/26/24 11:06	06/27/24 14:53
410-177784-5	Trip Blank	WQ	06/26/24 00:00	06/27/24 14:53

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1

SDG No.:

Instrument ID: 23297 Analysis Batch Number: 508211

Lab Sample ID: IC 410-508211/3 Client Sample ID:

Date Analyzed: 05/20/24 21:37 Lab File ID: 4Y20X02.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.61	Incomplete Integration	K4WN	05/21/24 16:52

Lab Sample ID: IC 410-508211/4 Client Sample ID:

Date Analyzed: 05/20/24 22:00 Lab File ID: 4Y20X03.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.61	Incomplete Integration	K4WN	05/21/24 16:52

Lab Sample ID: IC 410-508211/5 Client Sample ID:

Date Analyzed: 05/20/24 22:22 Lab File ID: 4Y20X04.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.61	Incomplete Integration	K4WN	05/21/24 16:50

Lab Sample ID: IC 410-508211/6 Client Sample ID:

Date Analyzed: 05/20/24 22:45 Lab File ID: 4Y20X05.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.62	Incomplete Integration	K4WN	05/21/24 16:51

Lab Sample ID: IC 410-508211/8 Client Sample ID:

Date Analyzed: 05/20/24 23:30 Lab File ID: 4Y20X07.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.62	Incomplete Integration	K4WN	05/21/24 16:55
Chlorobenzene-d5 (IS)	10.94	Incomplete Integration	K4WN	05/21/24 16:52

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1

SDG No.:

Instrument ID: 23297 Analysis Batch Number: 508211

Lab Sample ID: IC 410-508211/12 Client Sample ID:

Date Analyzed: 05/21/24 01:00 Lab File ID: 4Y20X11.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.09	Incomplete Integration	K4WN	05/21/24 16:58
Freon 123a	3.05	Incomplete Integration	K4WN	05/21/24 16:58
Acetone	3.27	Incomplete Integration	K4WN	05/21/24 16:59
Methyl acetate	3.64	Incomplete Integration	K4WN	05/21/24 16:59
Acrylonitrile	4.16	Incomplete Integration	K4WN	05/21/24 16:59
Propionitrile	5.82	Incomplete Integration	K4WN	05/21/24 16:59
Isobutyl alcohol	6.86	Incomplete Integration	K4WN	05/21/24 17:00
n-Butanol	7.76	Incomplete Integration	K4WN	05/21/24 17:00
1,4-Dioxane	8.29	Incomplete Integration	UKAD	05/21/24 11:24
2-Nitropropane	8.80	Incomplete Integration	K4WN	05/21/24 17:00
4-Methyl-2-pentanone (MIBK)	9.29	Baseline	UKEK	05/23/24 08:25
2-Hexanone	10.23	Incomplete Integration	K4WN	05/21/24 17:01

Lab Sample ID: IC 410-508211/13 Client Sample ID:

Date Analyzed: 05/21/24 01:22 Lab File ID: 4Y20X12.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.09	Incomplete Integration	K4WN	05/21/24 17:02
Bromomethane	2.39	Incomplete Integration	K4WN	05/21/24 17:02
Acetone	3.28	Incomplete Integration	K4WN	05/21/24 17:15
1,4-Dioxane	8.28	Split Peak	UKAD	05/21/24 11:26

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1

SDG No.:

Instrument ID: 23297 Analysis Batch Number: 508211

Lab Sample ID: IC 410-508211/14 Client Sample ID:

Date Analyzed: 05/21/24 01:45 Lab File ID: 4Y20X13.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.27	Incomplete Integration	K4WN	05/21/24 17:14
1,4-Dioxane	8.28	Split Peak	UKAD	05/21/24 11:26

Lab Sample ID: IC 410-508211/15 Client Sample ID:

Date Analyzed: 05/21/24 02:07 Lab File ID: 4Y20X14.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Propanol	3.44	Incomplete Integration	K4WN	05/21/24 17:05
1,4-Dioxane	8.27	Split Peak	UKAD	05/21/24 11:25

Lab Sample ID: ICIS 410-508211/16 Client Sample ID:

Date Analyzed: 05/21/24 02:30 Lab File ID: 4Y20X15.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.25	Incomplete Integration	K4WN	05/21/24 17:14
2-Propanol	3.44	Incomplete Integration	K4WN	05/21/24 17:06
1,4-Dioxane	8.27	Split Peak	UKAD	05/21/24 11:25

Lab Sample ID: IC 410-508211/17 Client Sample ID:

Date Analyzed: 05/21/24 02:52 Lab File ID: 4Y20X16.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.26	Incomplete Integration	K4WN	05/21/24 17:14
2-Propanol	3.42	Incomplete Integration	K4WN	05/21/24 17:07
1,4-Dioxane	8.28	Incomplete Integration	K4WN	05/21/24 17:07

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1

SDG No.:

Instrument ID: 23297 Analysis Batch Number: 508211

Lab Sample ID: IC 410-508211/18 Client Sample ID:

Date Analyzed: 05/21/24 03:15 Lab File ID: 4Y20X17.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.25	Incomplete Integration	K4WN	05/21/24 17:13
2-Propanol	3.42	Incomplete Integration	K4WN	05/21/24 17:09
Methyl acetate	3.64	Incomplete Integration	K4WN	05/21/24 17:09

Lab Sample ID: ICV 410-508211/20 Client Sample ID:

Date Analyzed: 05/21/24 04:00 Lab File ID: 4Y20X19.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	1.97	Incomplete Integration	K4WN	05/21/24 17:18
1,3-Butadiene	2.08	Incomplete Integration	K4WN	05/21/24 17:18
Acetone	3.25	Incomplete Integration	K4WN	05/21/24 17:20
2-Propanol	3.43	Incomplete Integration	K4WN	05/21/24 17:21
1,4-Dioxane	8.27	Incomplete Integration	K4WN	05/21/24 17:21

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1

SDG No.:

Instrument ID: 23297 Analysis Batch Number: 525900

Lab Sample ID: 410-177784-1 Client Sample ID: HD-CW-21-0/1-0

Date Analyzed: 07/09/24 13:45 Lab File ID: 4L09X11.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloroethane		Invalid Compound ID	FQ4L	07/10/24 09:41

Lab Sample ID: 410-177784-2 Client Sample ID: HD-CW-22-0/1-0

Date Analyzed: 07/09/24 14:07 Lab File ID: 4L09X12.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloroethane		Invalid Compound ID	FQ4L	07/10/24 09:41

Lab Sample ID: 410-177784-3 Client Sample ID: HD-CW-23-0/1-0

Date Analyzed: 07/09/24 14:30 Lab File ID: 4L09X13.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloroethane		Invalid Compound ID	FQ4L	07/10/24 09:42
Chloromethane		Invalid Compound ID	FQ4L	07/10/24 09:42

Lab Sample ID: 410-177784-4 Client Sample ID: HD-SPBA-EFF-0/1-0

Date Analyzed: 07/09/24 14:52 Lab File ID: 4L09X14.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloroethane		Invalid Compound ID	FQ4L	07/10/24 09:44

Lab Sample ID: 410-177784-5 Client Sample ID: Trip Blank

Date Analyzed: 07/09/24 15:15 Lab File ID: 4L09X15.D GC Column: R-624SilMS 30 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride		Invalid Compound ID	FQ4L	07/10/24 09:45

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSV_4ppbEtoh_00647	05/21/24	05/20/24	DI Water, Lot DI 24141	1000 mL	MSV_CCV_2CEVE_00176	4 uL	2-Chloroethyl vinyl ether	4 ug/L
					MSV_CCV_CYC_00008	32 uL	Cyclohexanone	199.994 ug/L
					MSV_CCV_ETOH_00006	20 uL	Ethanol	250.01 ug/L
					MSV_CCV_GASES_00772	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_00010	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_00184	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-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
							Carbon tetrachloride	4 ug/L

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							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
							Ethylene Dibromide	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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1

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_00180	3.2 uL	Acrolein	40.088 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_00176	06/18/24	05/19/24	Methanol, Lot EH471	5 mL	MSV_V_2CLEVE_00184	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
..MSV_V_2CLEVE_00184	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_ETOH_00006	09/20/24	03/20/24	Methanol, Lot EH471	200 mL	MSV_VETOH_STK_00015	9.084 mL	Ethanol	12500.5 ug/mL
..MSV_VETOH_STK_00015	09/20/24	03/20/24	Methanol, Lot EH471	10 mL	MSV_EtOH_00048	2.7522 g	Ethanol	275220 ug/mL
...MSV_EtOH_00048	04/30/28		Chem Service, Lot 15032500		(Purchased Reagent)		Ethanol	1 g/g
.MSV_CCV_GASES_00772	05/27/24		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_00010	07/14/24	05/20/24	Methanol, Lot EH822	10 mL	MSV_V_Acr_Std_00006	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_00006	07/14/24	04/23/24	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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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_00184	06/18/24	05/19/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00181	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-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
							Ethylene Dibromide	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_00178	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_00181	06/25/24		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-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
							Ethylene Dibromide	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_00178	06/18/24		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_00180	06/17/24	05/19/24	Methanol, Lot EH471	5 mL	MSV_CCV_ACR_00017	0.5 mL	Acrolein	12527.5 ug/mL
					MSV_V_Ketones_00188	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_00017	06/17/24	04/18/24	Methanol, Lot EH471	10 mL	MSV_VACR_STK_00039	9.125 mL	Acrolein	125275 ug/mL
...MSV_VACR_STK_00039	06/17/24	04/18/24	Methanol, Lot EH471	10 mL	MSV_ACROLEIN_00033	1.4778 g	Acrolein	137288 ug/mL
....MSV_ACROLEIN_00033	01/31/25	Chem Service, Lot 15004000			(Purchased Reagent)		Acrolein	0.929 g/g
..MSV_V_Ketones_00188	10/31/26	Restek, Lot A0203422			(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_00176	06/18/24	05/19/24	Methanol, Lot EH471	5 mL	MSV_V_2CLEVE_00184	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
.MSV_V_2CLEVE_00184	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_00007	11/07/24	05/07/24	Methanol, Lot EH471	50 mL	MSV_EE_MISCSK_00014	0.917 mL	Ethyl ether	999.897 ug/mL
.MSV_EE_MISCSK_00014	11/07/24	05/07/24	Methanol, Lot EH471	10 mL	MSV_EE_Neat_00011	0.5452 g	Ethyl ether	54520 ug/mL
..MSV_EE_Neat_00011	06/30/27	Chem Service, Lot 14084700			(Purchased Reagent)		Ethyl ether	1 g/g
MSV_CCV_ETOH_00006	09/20/24	03/20/24	Methanol, Lot EH471	200 mL	MSV_VETOH_STK_00015	9.084 mL	Ethanol	12500.5 ug/mL
.MSV_VETOH_STK_00015	09/20/24	03/20/24	Methanol, Lot EH471	10 mL	MSV_EtOH_00048	2.7522 g	Ethanol	275220 ug/mL
..MSV_EtOH_00048	04/30/28	Chem Service, Lot 15032500			(Purchased Reagent)		Ethanol	1 g/g
MSV_CCV_GASES_00772	05/27/24	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_00811	07/15/24	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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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_00007	07/14/24	02/04/24	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_00049	05/28/24	05/07/24	Methanol, Lot EH822	1 mL	MSV_V_PentaCL_00047	200 uL	Pentachloroethane	1000 ug/mL
.MSV_V_PentaCL_00047	05/28/24		Restek, Lot A0184174		(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_CCV_V5ACE_00036	06/10/24	05/10/24	Methanol, Lot EH822	10 mL	MSV_AcetatesV_00068	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_00068	11/10/24		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_00184	06/18/24	05/19/24	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00181	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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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-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
							Ethylene Dibromide	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_00178	1 mL	1,1,2-Trichloro-1,2,2-trifluoroethane	1000 ug/mL
							1,2,3-Trimethylbenzene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1

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_00181	06/25/24		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-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
							Ethylene Dibromide	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_00178	06/18/24		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-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

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	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
							Ethylene Dibromide	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-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
							Ethylene Dibromide	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_00180	06/17/24	05/19/24	Methanol, Lot EH471	5 mL	MSV_CCV_ACR_00017	0.5 mL	Acrolein	12527.5 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_00188	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_00017	06/17/24	04/18/24	Methanol, Lot EH471	10 mL	MSV_VACR_STK_00039	9.125 mL	Acrolein	125275 ug/mL
..MSV_VACR_STK_00039	06/17/24	04/18/24	Methanol, Lot EH471	10 mL	MSV_ACROLEIN_00033	1.4778 g	Acrolein	137288 ug/mL
...MSV_ACROLEIN_00033	01/31/25	Chem Service, Lot 15004000			(Purchased Reagent)		Acrolein	0.929 g/g
.MSV_V_Ketones_00188	10/31/26	Restek, Lot A0203422			(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_HP04_ISO_00002	11/20/24	05/20/24	Methanol, Lot EH822	10 mL	MSV_Cus826_IS_00787	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_00787	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_HP04_ISSS_00003	11/20/24	05/20/24	Methanol, Lot EH822	10 mL	MSV_8260_SS_01196	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_00787	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_01196	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_Cus826_IS_00787	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_LCS_Gases_00198	05/26/24	05/19/24	Methanol, Lot EH471	25 mL	MSV_QC_2K_GAS_00216	0.5 mL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00216	05/26/24		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_00167	06/18/24	05/19/24	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00199	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-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
							Ethylene Dibromide	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_00206	1 mL	Carbon disulfide	40 ug/mL
							Methyl tert-butyl ether	40 ug/mL
					MSV_Q_Ketones_00212	1 mL	2-Butanone (MEK)	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone (MIBK)	500 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		
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00199	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-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
							Ethylene Dibromide	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_00206	04/30/26		Restek, Lot A0197573		(Purchased Reagent)		Carbon disulfide	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
.MSV_Q_Ketones_00212	02/28/26		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-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

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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	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
							Ethylene Dibromide	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-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
							Ethylene Dibromide	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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	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
.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_00018	05/31/24	Restek, Lot A0172146			(Purchased Reagent)		2-Chloro-1,1,1-Trifluoroethane	2000 ug/mL
							Chlorodifluoromethane	2000 ug/mL
							Chlorotrifluoroethene	2000 ug/mL

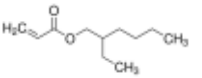
Reagent

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

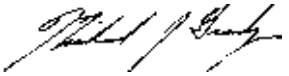
Certificate of Analysis

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_8260_SS_01196

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

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 30240 **Lot No.:** A0203162

Description : 8260A Surrogate Mix

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

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

Expiration Date : October 31, 2028 **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	Dibromofluoromethane	1868-53-7	022013	99%	2,510.0 µg/mL	+/- 141.0009
2	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	2,518.2 µg/mL	+/- 141.4616
3	Toluene-d8	2037-26-5	PR-33397	99%	2,523.4 µg/mL	+/- 141.7537
4	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000194533	99%	2,508.7 µg/mL	+/- 140.9301

* 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.)

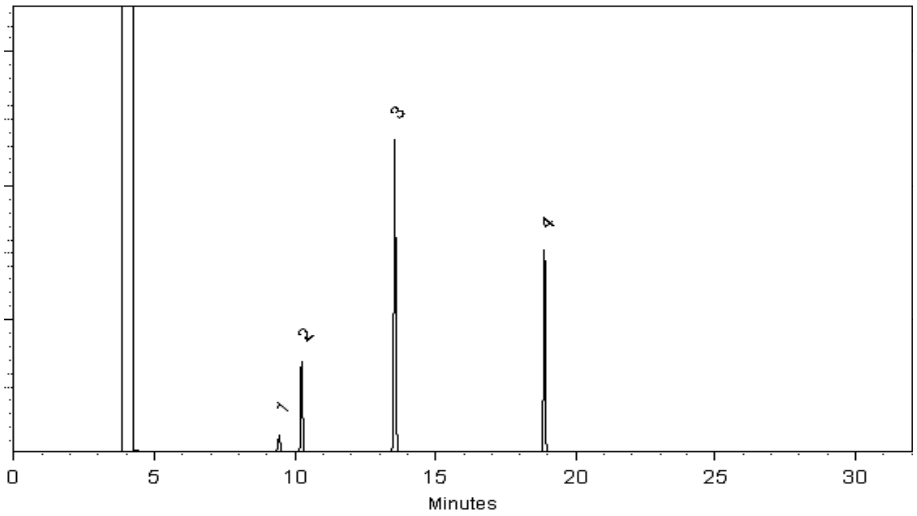
Inj. Temp:
200°C

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.

Peter Robbins - Operations Technician I

Date Mixed: 13-Oct-2023 **Balance Serial #** 1128342314

Dillan Murphy - Operations Technician I

Date Passed: 19-Oct-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_AcetatesV_00068

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

www.restek.com

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Certificate of Analysis

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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. : 577489 **Lot No.:** A0197847

Description : Custom Acetates Standard

Custom Acetates Standard 10,000-50,000µg/mL, P&T Methanol, 1mL/ampul

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

Expiration Date : November 30, 2024 **Storage:** -20°C or colder

Ship: On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetonitrile	75-05-8	62904	99%	50,466.0 µg/mL	+/- 825.2159
2	Vinyl acetate	108-05-4	RD220630	99%	10,082.0 µg/mL	+/- 164.9082
3	Ethyl acetate	141-78-6	SHBP9289	99%	10,088.0 µg/mL	+/- 165.0064
4	Isopropyl acetate	108-21-4	BCCG7069	99%	10,090.0 µg/mL	+/- 165.0391
5	Propyl acetate	109-60-4	Q4GIJ	99%	10,100.0 µg/mL	+/- 165.2027
6	Butyl acetate	123-86-4	SHBP6314	99%	10,094.0 µg/mL	+/- 165.1045

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

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

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution

immediately before use. This will minimize problems and ensure more consistent results.

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.)

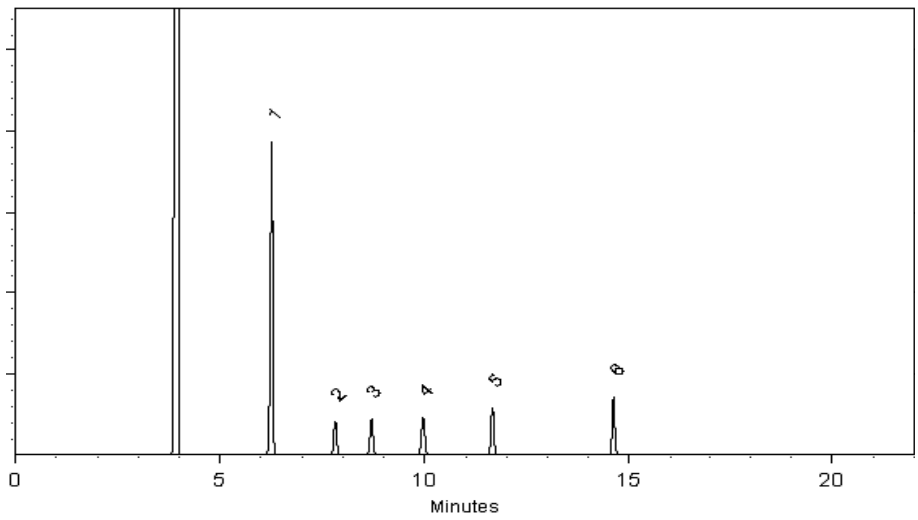
Inj. Temp:
200°C

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.

Brittany Federinko - Operations Tech I

Date Mixed: 09-May-2023 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-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_c14dcb_Nt_00004

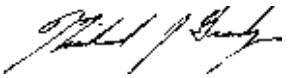
SIGMA-ALDRICH®
sigma-aldrich.com
3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

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_00772

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

www.restek.com

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Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577488 **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.

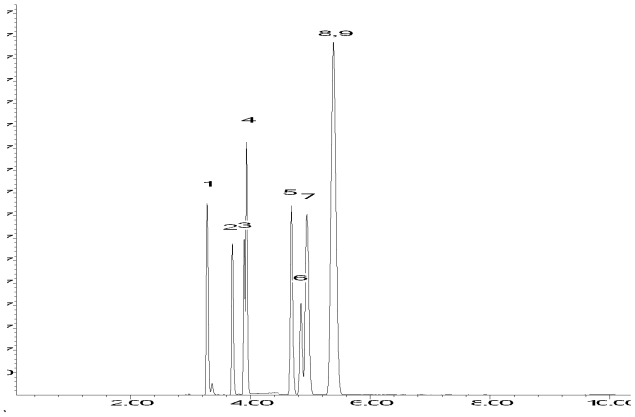
Inj. Temp:
200°C

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_00787

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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.)

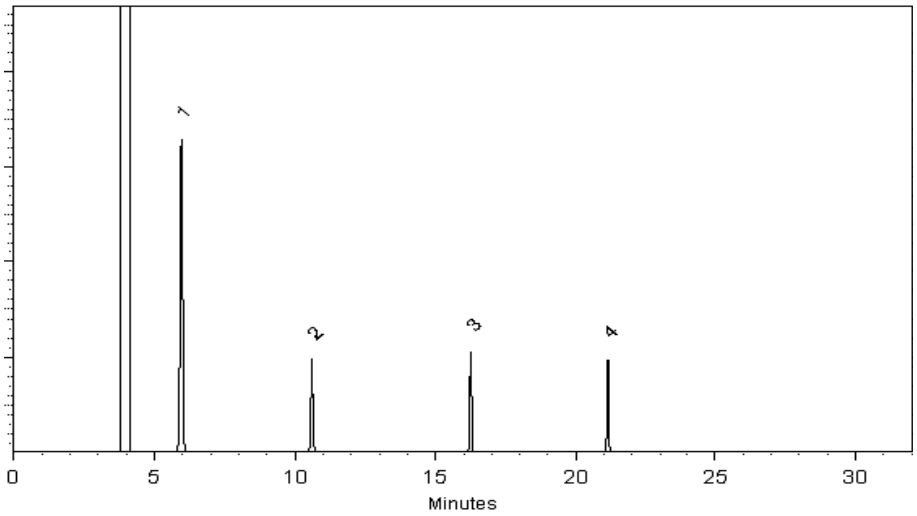
Inj. Temp:
200°C

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

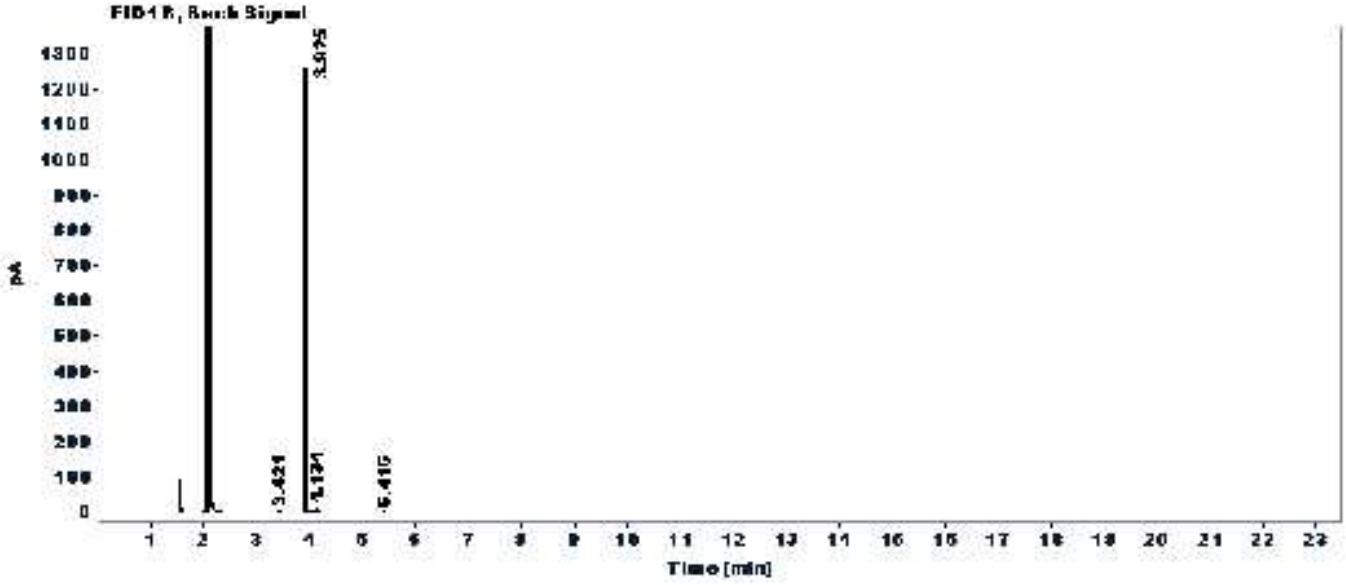
COA Form
Revision 3 (3/2015)

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_00199

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.)

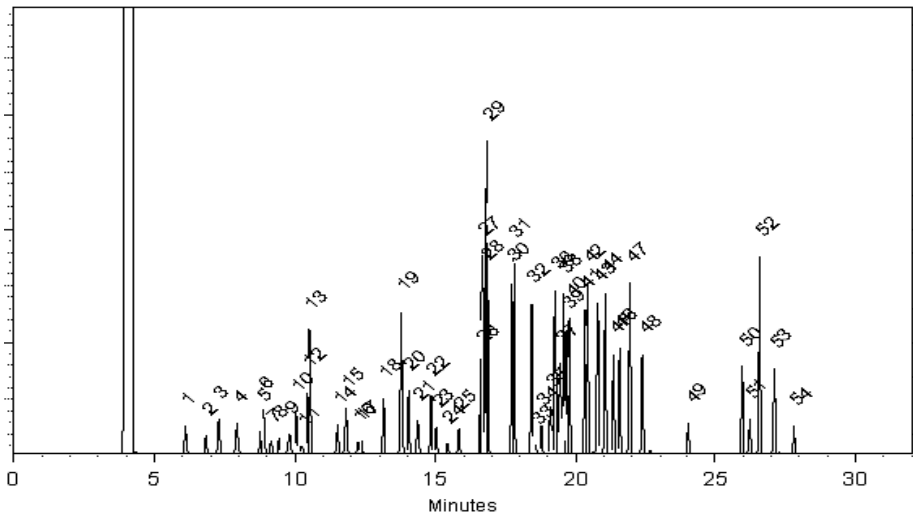
Inj. Temp:
200°C

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.)

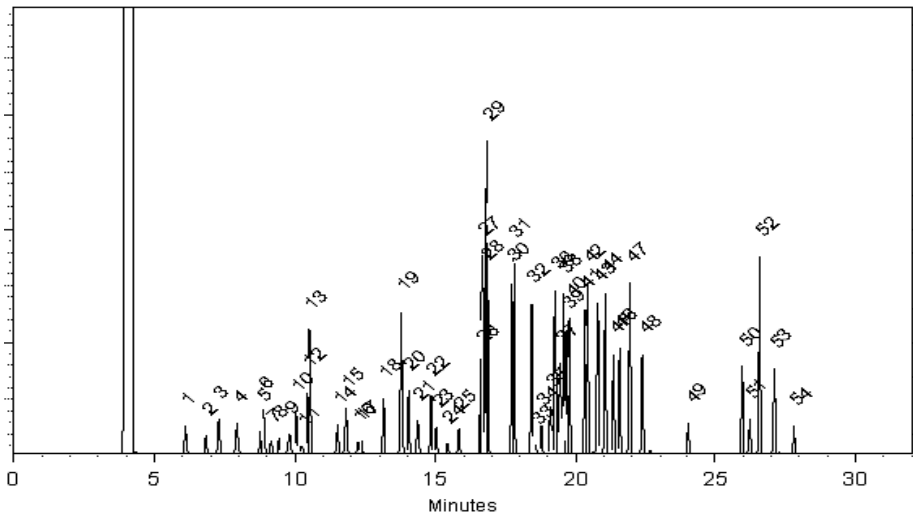
Inj. Temp:
200°C

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_00206

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.)

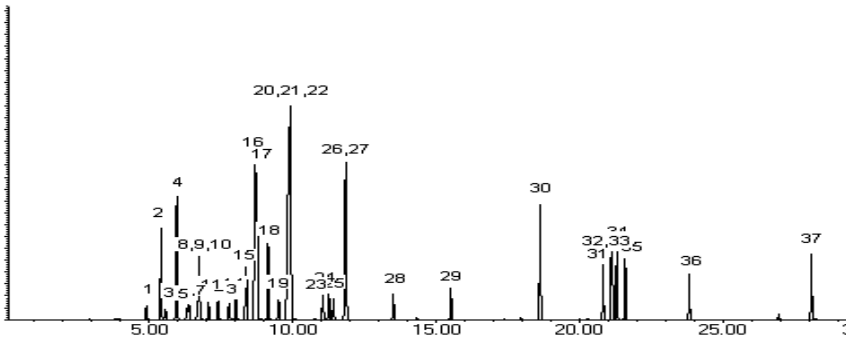
Inj. Temp:
200°C

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.)

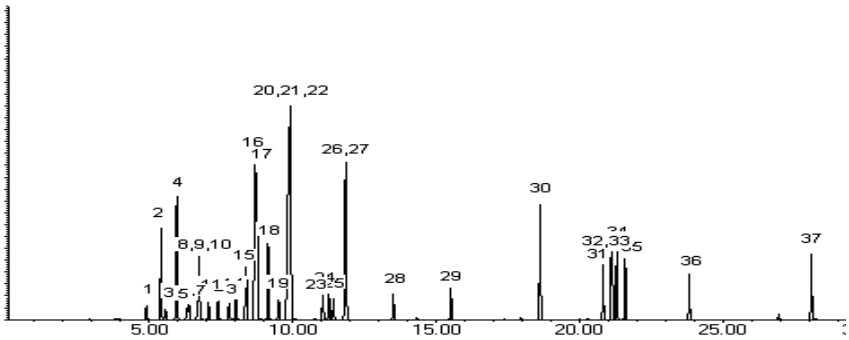
Inj. Temp:
200°C

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_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. : 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.)

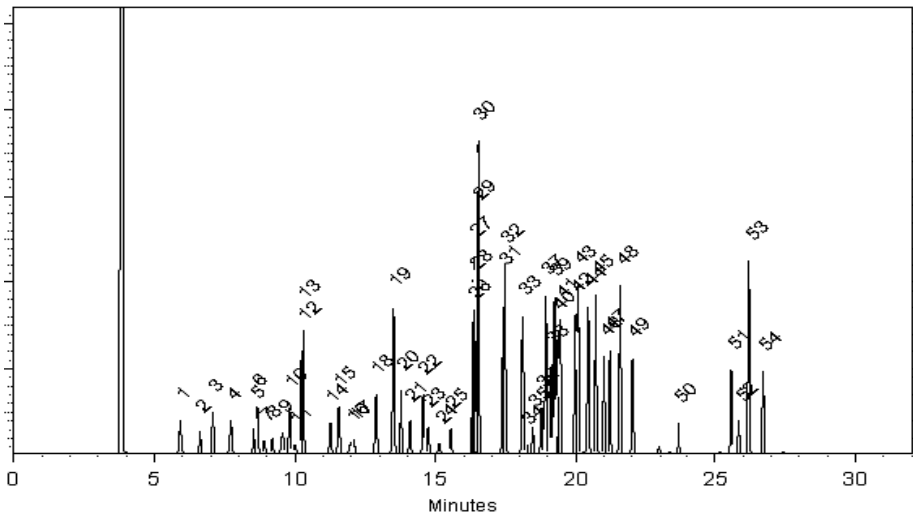
Inj. Temp:
200°C

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.)

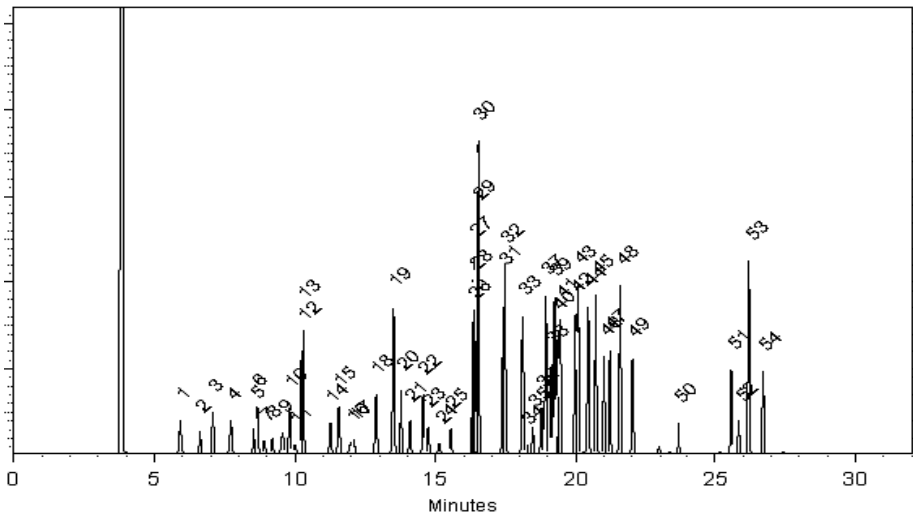
Inj. Temp:
200°C

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_00178

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.)

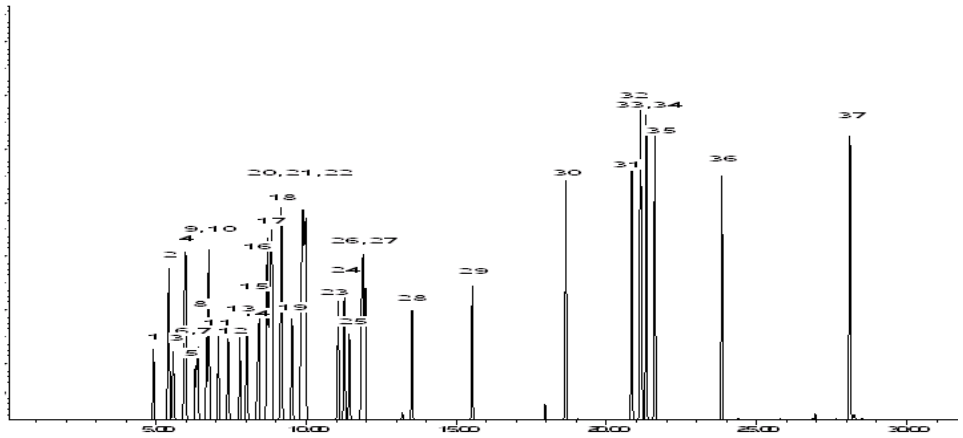
Inj. Temp:
200°C

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
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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.)

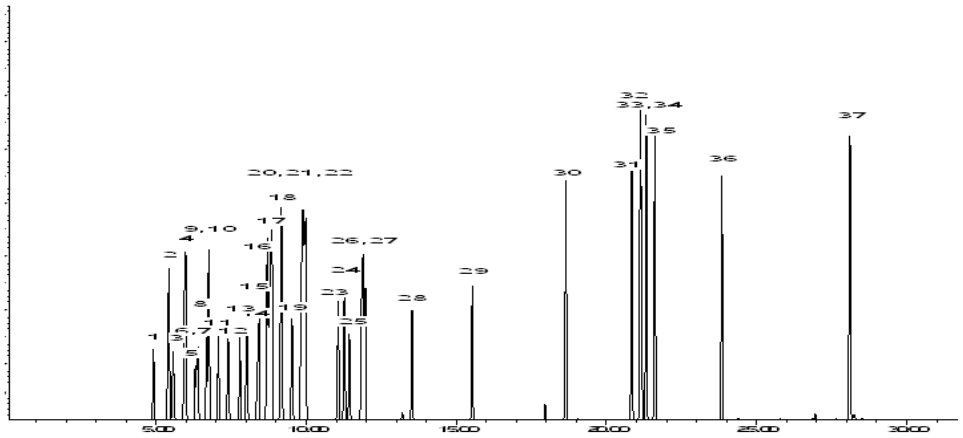
Inj. Temp:
200°C

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_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

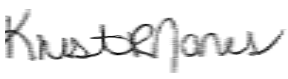
Methyl acrylate

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

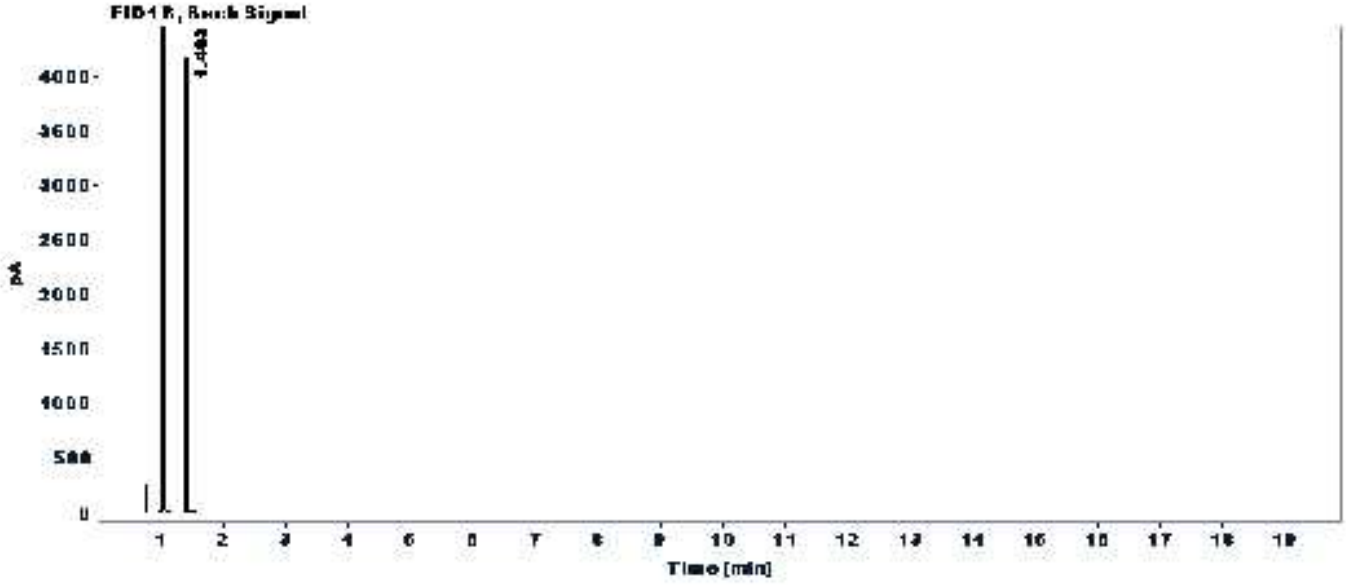
COA Form
Revision 3 (3/2015)

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

CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file:	C:\CHEM32\1\DATA\2022 DATA\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

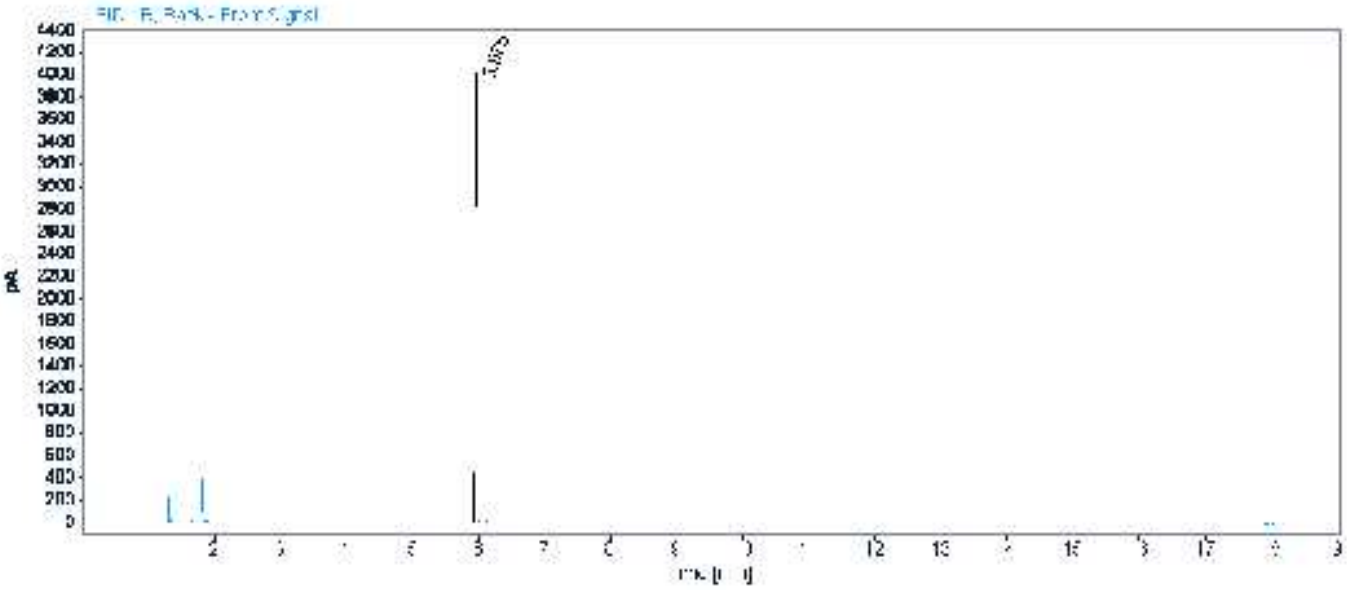
Chem Service, Inc. is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.

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\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.)

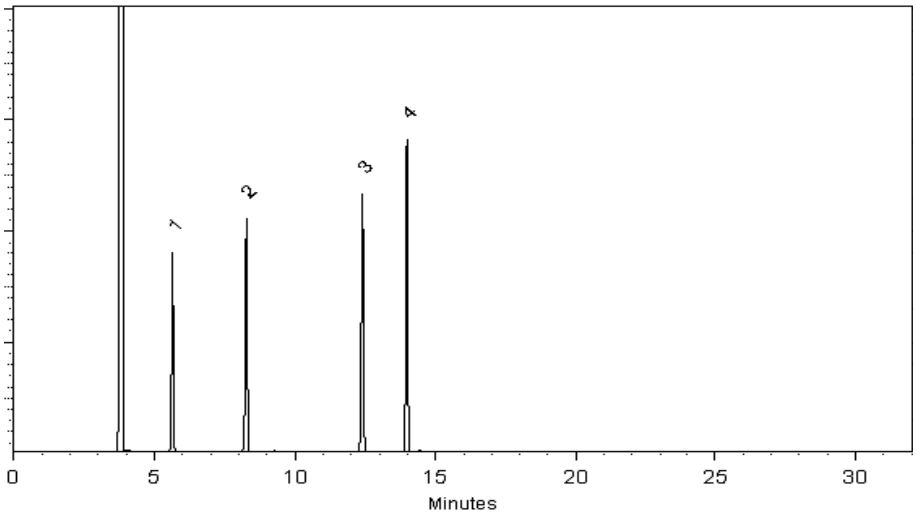
Inj. Temp:
200°C

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_Q_Ketones_00212

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.)

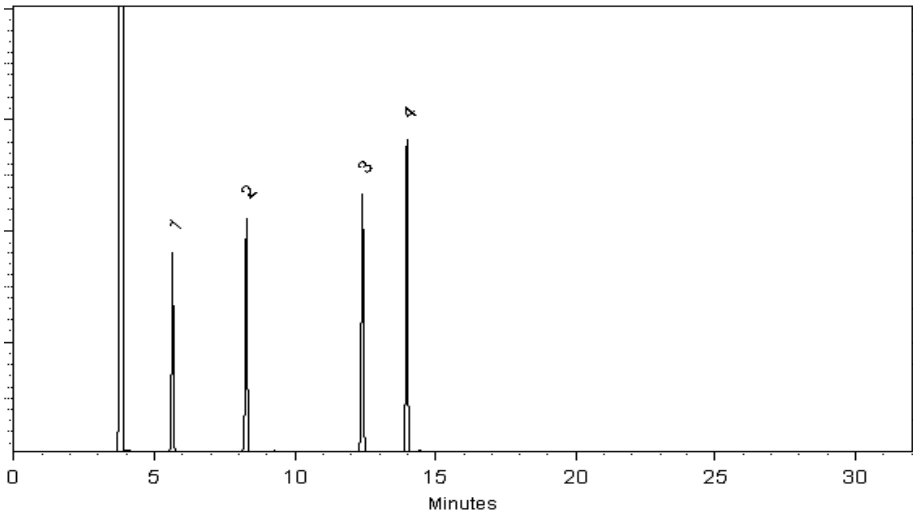
Inj. Temp:
200°C

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_00216

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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)

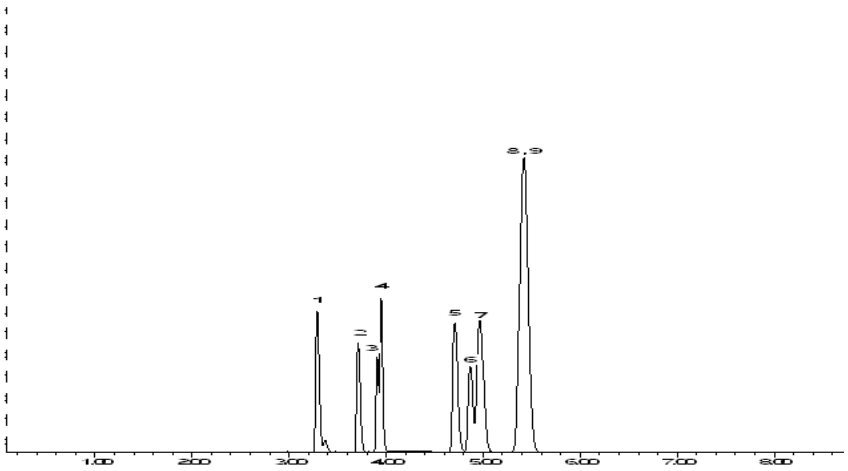
Carrier Gas:
helium-constant flow 2.0 mL/min.

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.

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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. : 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)

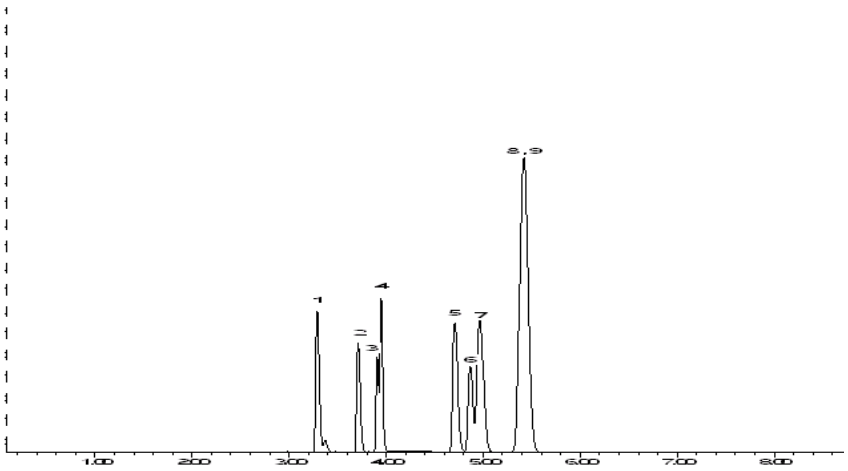
Carrier Gas:
helium-constant flow 2.0 mL/min.

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_2CLEVE_00184

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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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. : 577492 **Lot No.:** A0197472

Description : Custom 2-CEVE Standard

Custom 2-CEVE 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	2-Chloroethyl vinyl ether	110-75-8	MKBS6526V	99%	5,040.0 µg/mL	+/- 62.7237

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

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

Tech Tips:
Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

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.)

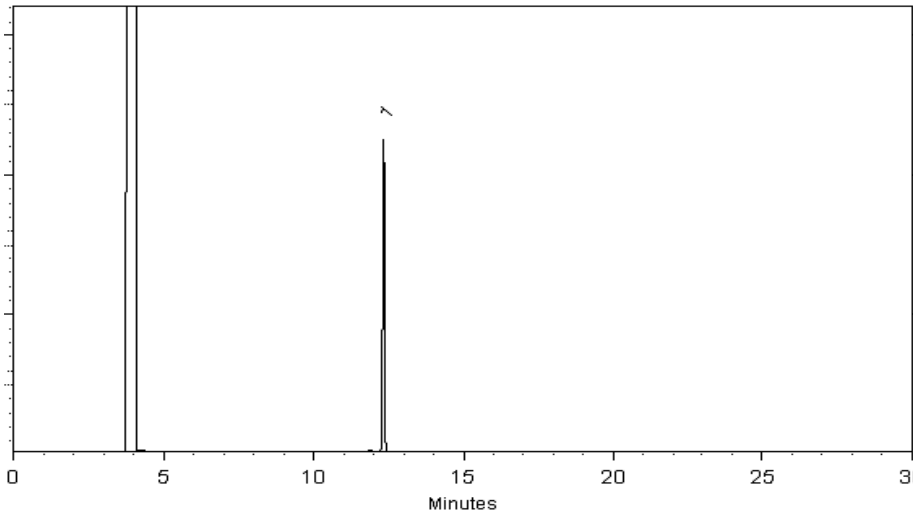
Inj. Temp:
200°C

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.

Russ Bookhamer - Operations Technician I

Date Mixed: 26-Apr-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - 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_V_Ketones_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. : 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.)

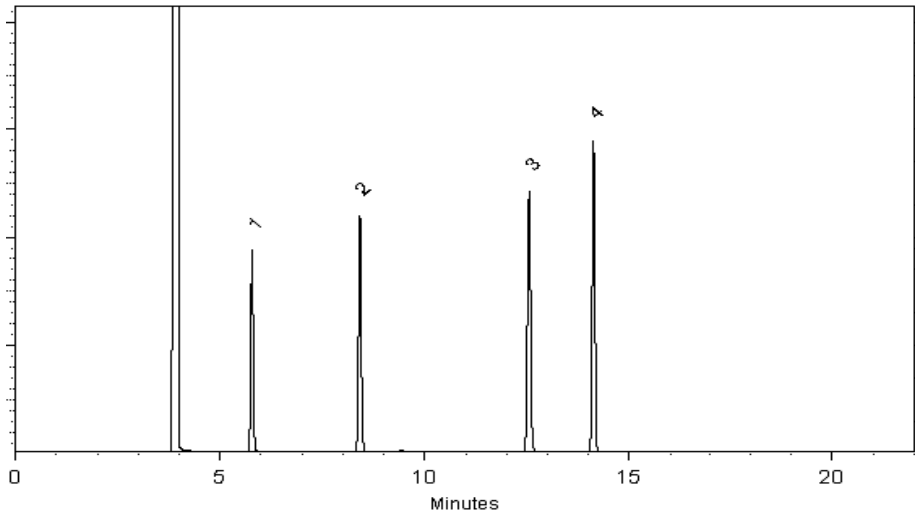
Inj. Temp:
200°C

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_Ketones_00188

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 **Lot No.:** A0203422

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 : October 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	27D1062005	99%	12,507.0 µg/mL	+/- 432.2709
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	12,507.0 µg/mL	+/- 432.2709
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	12,507.0 µg/mL	+/- 432.2709
4	2-Hexanone	591-78-6	MKCQ6663	99%	12,506.0 µg/mL	+/- 432.2364

* 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.)

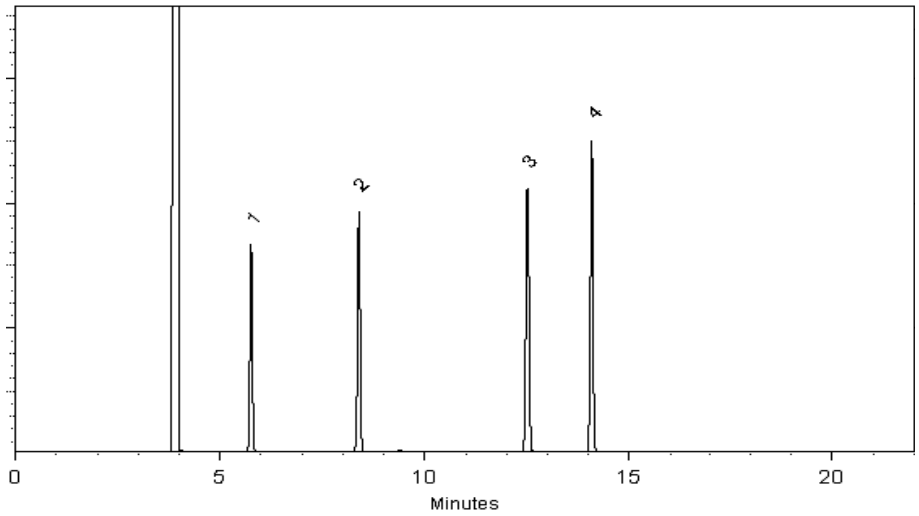
Inj. Temp:
200°C

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.

Laith Clemente - Operations Technician I

Date Mixed: 20-Oct-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Oct-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_00047

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 577491 **Lot No.:** 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)

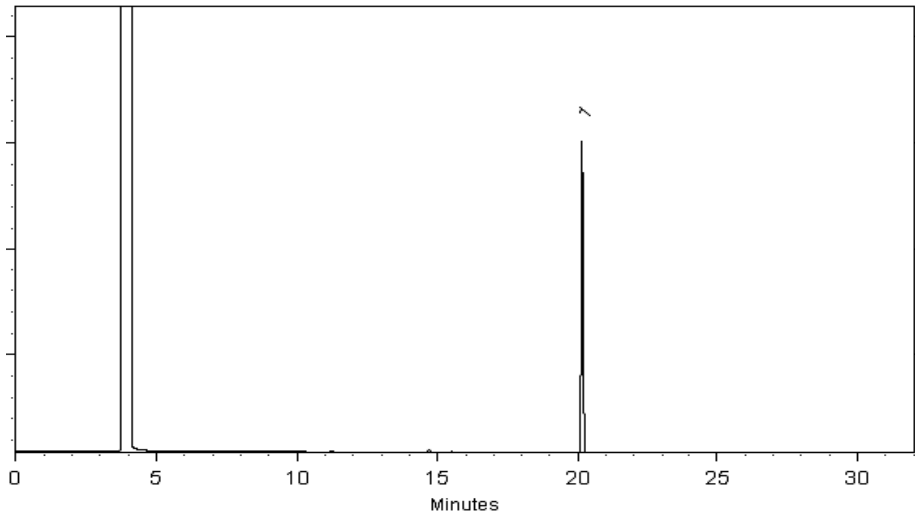
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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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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. : 577490 **Lot No.:** A0172146

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

Ship: Ambient

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

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Chlorotrifluoroethylene	1,998.3 µg/mL	+/- 31.1209 µg/mL	Gravimetric
	CAS # 79-38-9 (Lot 199600)		+/- 115.7047 µg/mL	Unstressed
	Purity 99%		+/- 118.2453 µg/mL	Stressed
2	Chlorodifluoromethane (CFC-22)	2,003.6 µg/mL	+/- 77.8648 µg/mL	Gravimetric
	CAS # 75-45-6 (Lot Q162-44)		+/- 136.1895 µg/mL	Unstressed
	Purity 99%		+/- 138.3658 µg/mL	Stressed
3	2-Chloro-1,1,1-trifluoroethane (HCFC-133a)	2,001.9 µg/mL	+/- 77.7991 µg/mL	Gravimetric
	CAS # 75-88-7 (Lot Q157-146)		+/- 136.0747 µg/mL	Unstressed
	Purity 99%		+/- 138.2491 µg/mL	Stressed

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

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

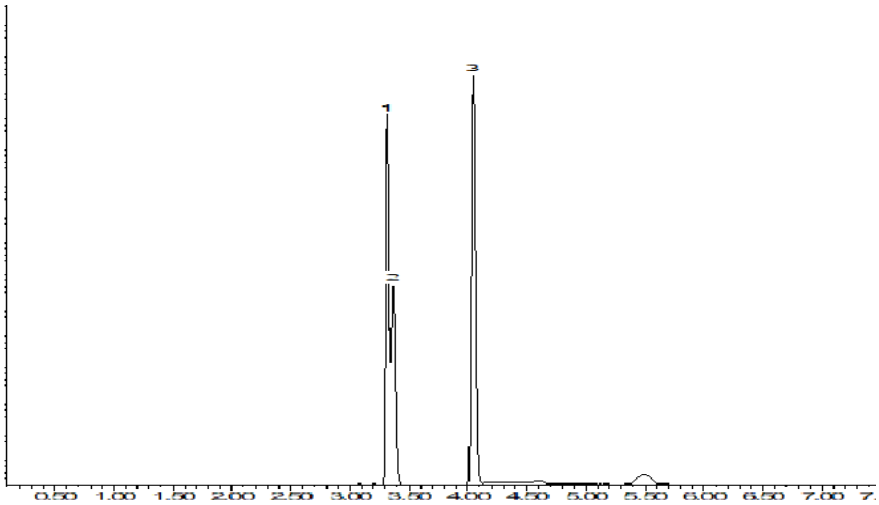
Carrier Gas:
helium-constant flow 2.0 mL/min.

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

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



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

Tom Suckar - Mix Technician

Date Mixed: 07-May-2021 **Balance:** B251644995

Alexis Shelow - Operations Tech I

Date Passed: 10-May-2021

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

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.: 410-177784-1

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-CW-21-0/1-0	410-177784-1	105	103	101	95
HD-CW-22-0/1-0	410-177784-2	105	104	99	96
HD-CW-23-0/1-0	410-177784-3	105	104	99	94
HD-SPBA-EFF-0/1-0	410-177784-4	105	100	100	94
Trip Blank	410-177784-5	108	105	99	95
	MB 410-525900/7	105	103	99	97
	LCS 410-525900/4	105	102	100	96
	LCSD 410-525900/5	105	101	101	96

	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.: 410-177784-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 4L09X03.D

Lab ID: LCS 410-525900/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20.0	21.2	106	79-120	
1,1,1-Trichloroethane	20.0	20.7	103	73-120	
1,1,2,2-Tetrachloroethane	20.0	19.3	97	72-120	
1,1,2-Trichloroethane	20.0	20.2	101	80-120	
1,1-Dichloroethane	20.0	20.0	100	80-120	
1,1-Dichloroethene	20.0	21.4	107	80-131	
Ethylene Dibromide	20.0	20.5	102	77-120	
1,2-Dichloroethane	20.0	19.8	99	73-124	
1,2-Dichloropropane	20.0	19.3	97	80-120	
2-Butanone (MEK)	250	220	88	59-135	
2-Hexanone	250	234	93	56-135	
4-Methyl-2-pentanone (MIBK)	250	214	86	62-133	
Acetone	250	231	92	57-143	
Benzene	20.0	19.6	98	80-120	
Bromochloromethane	20.0	20.8	104	80-120	
Bromodichloromethane	20.0	19.3	97	71-120	
Bromoform	20.0	19.9	100	51-120	
Bromomethane	20.0	17.0	85	53-128	
Carbon disulfide	20.0	19.9	99	65-128	
Carbon tetrachloride	20.0	21.6	108	64-134	
Chlorobenzene	20.0	20.6	103	80-120	
Chloroethane	20.0	17.8	89	55-123	
Chloroform	20.0	18.0	90	80-120	
Chloromethane	20.0	15.0	75	39-134	
cis-1,2-Dichloroethene	20.0	19.9	99	80-125	
cis-1,3-Dichloropropene	20.0	17.6	88	75-120	
Dibromochloromethane	20.0	20.8	104	71-120	
Ethylbenzene	20.0	20.7	104	80-120	
Methyl tert-butyl ether	20.0	17.7	89	69-122	
Methylene Chloride	20.0	20.7	104	80-120	
Styrene	20.0	19.4	97	80-120	
Tetrachloroethene	20.0	22.1	110	80-120	
Toluene	20.0	20.5	103	80-120	
trans-1,2-Dichloroethene	20.0	20.7	103	80-126	
trans-1,3-Dichloropropene	20.0	18.9	95	67-120	
Trichloroethene	20.0	19.3	96	80-120	
Vinyl chloride	20.0	15.6	78	56-120	
Xylenes, Total	60.0	61.0	102	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 4L09X04.D

Lab ID: LCSD 410-525900/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20.0	21.0	105	1	30	79-120	
1,1,1-Trichloroethane	20.0	20.5	103	1	30	73-120	
1,1,2,2-Tetrachloroethane	20.0	19.3	96	0	30	72-120	
1,1,2-Trichloroethane	20.0	20.1	100	1	30	80-120	
1,1-Dichloroethane	20.0	19.9	99	0	30	80-120	
1,1-Dichloroethene	20.0	22.4	112	4	30	80-131	
Ethylene Dibromide	20.0	20.0	100	3	30	77-120	
1,2-Dichloroethane	20.0	19.3	96	3	30	73-124	
1,2-Dichloropropane	20.0	19.0	95	2	30	80-120	
2-Butanone (MEK)	250	219	87	0	30	59-135	
2-Hexanone	250	236	95	1	30	56-135	
4-Methyl-2-pentanone (MIBK)	250	212	85	1	30	62-133	
Acetone	250	223	89	4	30	57-143	
Benzene	20.0	19.3	96	2	30	80-120	
Bromochloromethane	20.0	21.1	106	2	30	80-120	
Bromodichloromethane	20.0	19.1	96	1	30	71-120	
Bromoform	20.0	20.0	100	0	30	51-120	
Bromomethane	20.0	17.3	86	2	30	53-128	
Carbon disulfide	20.0	20.7	103	4	30	65-128	
Carbon tetrachloride	20.0	21.6	108	0	30	64-134	
Chlorobenzene	20.0	20.1	101	3	30	80-120	
Chloroethane	20.0	18.5	93	4	30	55-123	
Chloroform	20.0	17.9	90	0	30	80-120	
Chloromethane	20.0	15.1	76	1	30	39-134	
cis-1,2-Dichloroethene	20.0	19.7	98	1	30	80-125	
cis-1,3-Dichloropropene	20.0	17.2	86	3	30	75-120	
Dibromochloromethane	20.0	20.4	102	2	30	71-120	
Ethylbenzene	20.0	20.0	100	3	30	80-120	
Methyl tert-butyl ether	20.0	18.2	91	3	30	69-122	
Methylene Chloride	20.0	21.5	108	4	30	80-120	
Styrene	20.0	19.2	96	1	30	80-120	
Tetrachloroethene	20.0	21.8	109	1	30	80-120	
Toluene	20.0	20.2	101	2	30	80-120	
trans-1,2-Dichloroethene	20.0	19.9	100	4	30	80-126	
trans-1,3-Dichloropropene	20.0	18.6	93	2	30	67-120	
Trichloroethene	20.0	19.4	97	1	30	80-120	
Vinyl chloride	20.0	16.0	80	3	30	56-120	
Xylenes, Total	60.0	60.3	100	1	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1

SDG No.:

Lab File ID: 4L09X06.D Lab Sample ID: MB 410-525900/7

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

Instrument ID: 23297 Date Analyzed: 07/09/2024 10:58

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 410-525900/4	4L09X03.D	07/09/2024 09:51
	LCSD 410-525900/5	4L09X04.D	07/09/2024 10:13
HD-CW-21-0/1-0	410-177784-1	4L09X11.D	07/09/2024 13:45
HD-CW-22-0/1-0	410-177784-2	4L09X12.D	07/09/2024 14:07
HD-CW-23-0/1-0	410-177784-3	4L09X13.D	07/09/2024 14:30
HD-SPBA-EFF-0/1-0	410-177784-4	4L09X14.D	07/09/2024 14:52
Trip Blank	410-177784-5	4L09X15.D	07/09/2024 15:15

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1

SDG No.:

Lab File ID: 4Y20T01.D BFB Injection Date: 05/20/2024

Instrument ID: 23297 BFB Injection Time: 20:57

Analysis Batch No.: 508211

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	121.8
96	5 - 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.0
174	50 - 200% of m/z 95	82.1
175	5 - 9% of m/z 174	7.8
176	95 -105% of m/z 174	96.8
177	5 - 10% of m/z 176	6.7

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 410-508211/3	4Y20X02.D	05/20/2024	21:37
	IC 410-508211/4	4Y20X03.D	05/20/2024	22:00
	IC 410-508211/5	4Y20X04.D	05/20/2024	22:22
	IC 410-508211/6	4Y20X05.D	05/20/2024	22:45
	IC 410-508211/7	4Y20X06.D	05/20/2024	23:07
	IC 410-508211/8	4Y20X07.D	05/20/2024	23:30
	IC 410-508211/12	4Y20X11.D	05/21/2024	1:00
	IC 410-508211/13	4Y20X12.D	05/21/2024	1:22
	IC 410-508211/14	4Y20X13.D	05/21/2024	1:45
	IC 410-508211/15	4Y20X14.D	05/21/2024	2:07
	ICIS 410-508211/16	4Y20X15.D	05/21/2024	2:30
	IC 410-508211/17	4Y20X16.D	05/21/2024	2:52
	IC 410-508211/18	4Y20X17.D	05/21/2024	3:15
	ICV 410-508211/20	4Y20X19.D	05/21/2024	4:00

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1

SDG No.:

Lab File ID: 4L09T01.D BFB Injection Date: 07/09/2024

Instrument ID: 23297 BFB Injection Time: 08:19

Analysis Batch No.: 525900

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	50 - 200% of m/z 174	117.4
96	5 - 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0
174	50 - 200% of m/z 95	85.2
175	5 - 9% of m/z 174	7.5
176	95 -105% of m/z 174	98.1
177	5 - 10% of m/z 176	6.7

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 410-525900/3	4L09X02.D	07/09/2024	9:28
	LCS 410-525900/4	4L09X03.D	07/09/2024	9:51
	LCSD 410-525900/5	4L09X04.D	07/09/2024	10:13
	MB 410-525900/7	4L09X06.D	07/09/2024	10:58
HD-CW-21-0/1-0	410-177784-1	4L09X11.D	07/09/2024	13:45
HD-CW-22-0/1-0	410-177784-2	4L09X12.D	07/09/2024	14:07
HD-CW-23-0/1-0	410-177784-3	4L09X13.D	07/09/2024	14:30
HD-SPBA-EFF-0/1-0	410-177784-4	4L09X14.D	07/09/2024	14:52
Trip Blank	410-177784-5	4L09X15.D	07/09/2024	15:15

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1

SDG No.:

Sample No.: ICIS 410-508211/16 Date Analyzed: 05/21/2024 02:30

Instrument ID: 23297 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): 4Y20X15.D Heated Purge: (Y/N) N

Calibration ID: 61942

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		572863	3.87	1258986	7.36	957938	10.94
UPPER LIMIT		1145726	4.37	2517972	7.86	1915876	11.44
LOWER LIMIT		286432	3.37	629493	6.86	478969	10.44
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-508211/20		577805	3.86	1268772	7.36	946825	10.94
CCVIS 410-525900/3		518736	3.89	1292970	7.35	940475	10.94

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.: 410-177784-1

SDG No.:

Sample No.: ICIS 410-508211/16 Date Analyzed: 05/21/2024 02:30

Instrument ID: 23297 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): 4Y20X15.D Heated Purge: (Y/N) N

Calibration ID: 61942

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		556513	12.85				
UPPER LIMIT		1113026	13.35				
LOWER LIMIT		278257	12.35				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-508211/20		554503	12.85				
CCVIS 410-525900/3		539599	12.85				

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.: 410-177784-1

SDG No.:

Sample No.: CCVIS 410-525900/3 Date Analyzed: 07/09/2024 09:28

Instrument ID: 23297 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): 4L09X02.D Heated Purge: (Y/N) N

Calibration ID: 61942

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		518736	3.89	1292970	7.35	940475	10.94
UPPER LIMIT		1037472	4.39	2585940	7.85	1880950	11.44
LOWER LIMIT		259368	3.39	646485	6.85	470238	10.44
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-525900/4		543281	3.89	1321676	7.36	950009	10.94
LCSD 410-525900/5		546369	3.86	1278672	7.35	902149	10.93
MB 410-525900/7		532388	3.88	1227844	7.35	884088	10.93
410-177784-1	HD-CW-21-0/1-0	485737	3.86	1222136	7.35	870528	10.93
410-177784-2	HD-CW-22-0/1-0	542492	3.86	1316193	7.36	937771	10.93
410-177784-3	HD-CW-23-0/1-0	533734	3.86	1261460	7.35	909789	10.93
410-177784-4	HD-SPBA-EFF-0/1-0	488036	3.88	1294089	7.35	914355	10.93
410-177784-5	Trip Blank	518033	3.87	1266040	7.36	886392	10.93

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.: 410-177784-1

SDG No.:

Sample No.: CCVIS 410-525900/3 Date Analyzed: 07/09/2024 09:28

Instrument ID: 23297 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): 4L09X02.D Heated Purge: (Y/N) N

Calibration ID: 61942

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		539599	12.85				
UPPER LIMIT		1079198	13.35				
LOWER LIMIT		269800	12.35				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-525900/4		553876	12.85				
LCSD 410-525900/5		527115	12.85				
MB 410-525900/7		517545	12.85				
410-177784-1	HD-CW-21-0/1-0	517083	12.85				
410-177784-2	HD-CW-22-0/1-0	554923	12.85				
410-177784-3	HD-CW-23-0/1-0	518245	12.85				
410-177784-4	HD-SPBA-EFF-0/1-0	529522	12.85				
410-177784-5	Trip Blank	518445	12.85				

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.: 410-177784-1

SDG No.:

Client Sample ID: HD-CW-21-0/1-0
Lab Sample ID: 410-177784-1

Matrix: Groundwater
Lab File ID: 4L09X11.D

Analysis Method: 8260D
Date Collected: 06/26/2024 10:46

Sample wt/vol: 5(mL)
Date Analyzed: 07/09/2024 13:45

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.: 525900
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP04

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	Ethylene Dibromide	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	^c cn	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	^c cn	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	120		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177784-1

SDG No.:

Client Sample ID: HD-CW-21-0/1-0
Lab Sample ID: 410-177784-1

Matrix: Groundwater
Lab File ID: 4L09X11.D

Analysis Method: 8260D
Date Collected: 06/26/2024 10:46

Sample wt/vol: 5(mL)
Date Analyzed: 07/09/2024 13:45

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.: 525900
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP04

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	0.73	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)	103		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)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X11.D
Lims ID: 410-177784-A-1
Client ID: HD-CW-21-0/1-0
Sample Type: Client
Inject. Date: 09-Jul-2024 13:45:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118805-012
Operator ID: CLM27445 Instrument ID: 23297

Method: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 10-Jul-2024 09:41:30 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

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

First Level Reviewer: FQ4L Date: 10-Jul-2024 09:41:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	1.983	1.983	0.000	1	4272	0.3649	
5 Vinyl chloride	62		2.086				ND	
8 Bromomethane	94		2.402				ND	7
9 Chloroethane	64		2.482				ND	
17 1,1-Dichloroethene	96		3.266				ND	
18 Acetone	58		3.272				ND	
22 Carbon disulfide	76		3.546				ND	
27 Methylene Chloride	84		3.862				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.856	3.887	-0.031	35	485737	250.0	
31 Methyl tert-butyl ether	73		4.221				ND	7
32 trans-1,2-Dichloroethene	96		4.234				ND	
35 1,1-Dichloroethane	63		4.891				ND	
40 2-Butanone (MEK)	43		5.718				ND	
41 cis-1,2-Dichloroethene	96		5.736				ND	
48 Chlorobromomethane	128		6.071				ND	
50 Chloroform	83		6.229				ND	7
$ 51 Dibromofluoromethane (Surr)	113	6.442	6.448	-0.006	94	323771	52.5	
52 1,1,1-Trichloroethane	97		6.454				ND	
54 Carbon tetrachloride	117		6.679				ND	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	6.898	6.904	-0.006	80	77003	51.3	
58 Benzene	78		6.941				ND	
59 1,2-Dichloroethane	62		7.014				ND	
* 62 Fluorobenzene (IS)	96	7.348	7.354	-0.006	99	1222136	50.0	
66 Trichloroethene	95	7.841	7.841	0.000	92	4723	0.7333	
69 1,2-Dichloropropane	63		8.176				ND	
75 Dichlorobromomethane	83		8.529				ND	
78 cis-1,3-Dichloropropene	75		9.094				ND	
79 4-Methyl-2-pentanone (MIBK)	43		9.283				ND	7
$ 80 Toluene-d8 (Surr)	98	9.423	9.423	0.000	93	1178471	50.3	
81 Toluene	92		9.502				ND	
82 trans-1,3-Dichloropropene	75		9.776				ND	
118 1,1,2-Trichloroethane	97		9.989				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
119 Tetrachloroethene	166	10.080	10.080	0.000	97	753287	122.6	
123 2-Hexanone	43		10.220				ND	
125 Chlorodibromomethane	129		10.378				ND	
127 Ethylene Dibromide	107		10.487				ND	
* 128 Chlorobenzene-d5 (IS)	117	10.932	10.938	-0.006	84	870528	50.0	
130 Chlorobenzene	112		10.962				ND	
131 1,1,1,2-Tetrachloroethane	131		11.047				ND	
132 Ethylbenzene	91		11.053				ND	
134 m-Xylene & p-Xylene	106		11.175				ND	
S 133 Xylenes, Total	106		11.245				ND	7
136 o-Xylene	106		11.510				ND	
137 Styrene	104		11.522				ND	
138 Bromoform	173		11.674				ND	7
$ 142 4-Bromofluorobenzene (Surr)	95	11.954	11.954	0.000	93	407522	47.6	
143 1,1,2,2-Tetrachloroethane	83		12.063				ND	
* 160 1,4-Dichlorobenzene-d4	152	12.848	12.848	0.000	94	517083	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

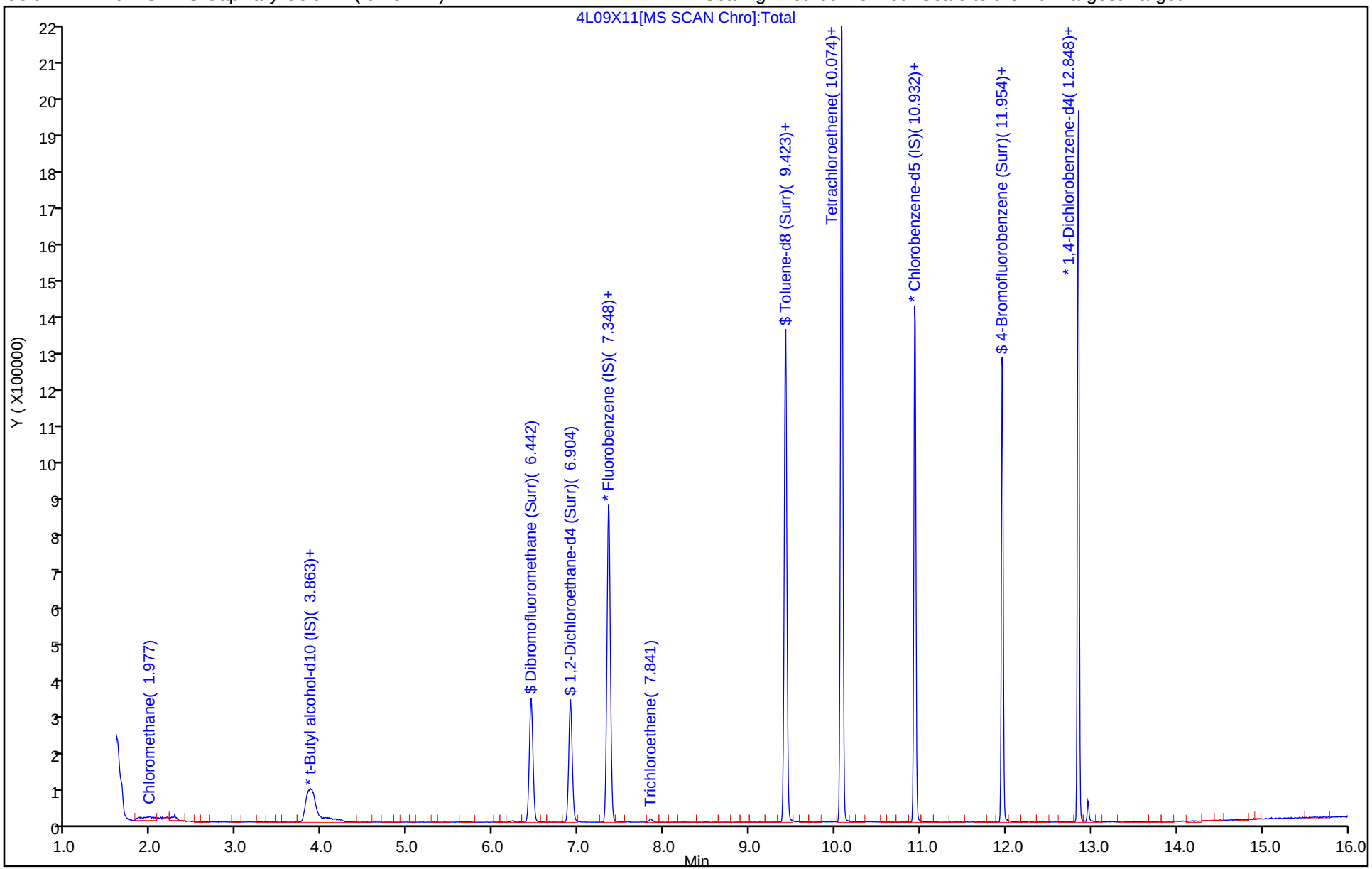
MSV_HP04_ISSS_00003 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 10-Jul-2024 09:41:31 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X11.D				
Injection Date:	09-Jul-2024 13:45:30	Instrument ID:	23297	Operator ID:	CLM27445
Lims ID:	410-177784-A-1	Lab Sample ID:	410-177784-1	Worklist Smp#:	12
Client ID:	HD-CW-21-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X11.D
Lims ID: 410-177784-A-1
Client ID: HD-CW-21-0/1-0
Sample Type: Client
Inject. Date: 09-Jul-2024 13:45:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118805-012
Operator ID: CLM27445 Instrument ID: 23297

Method: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 10-Jul-2024 09:41:30 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

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

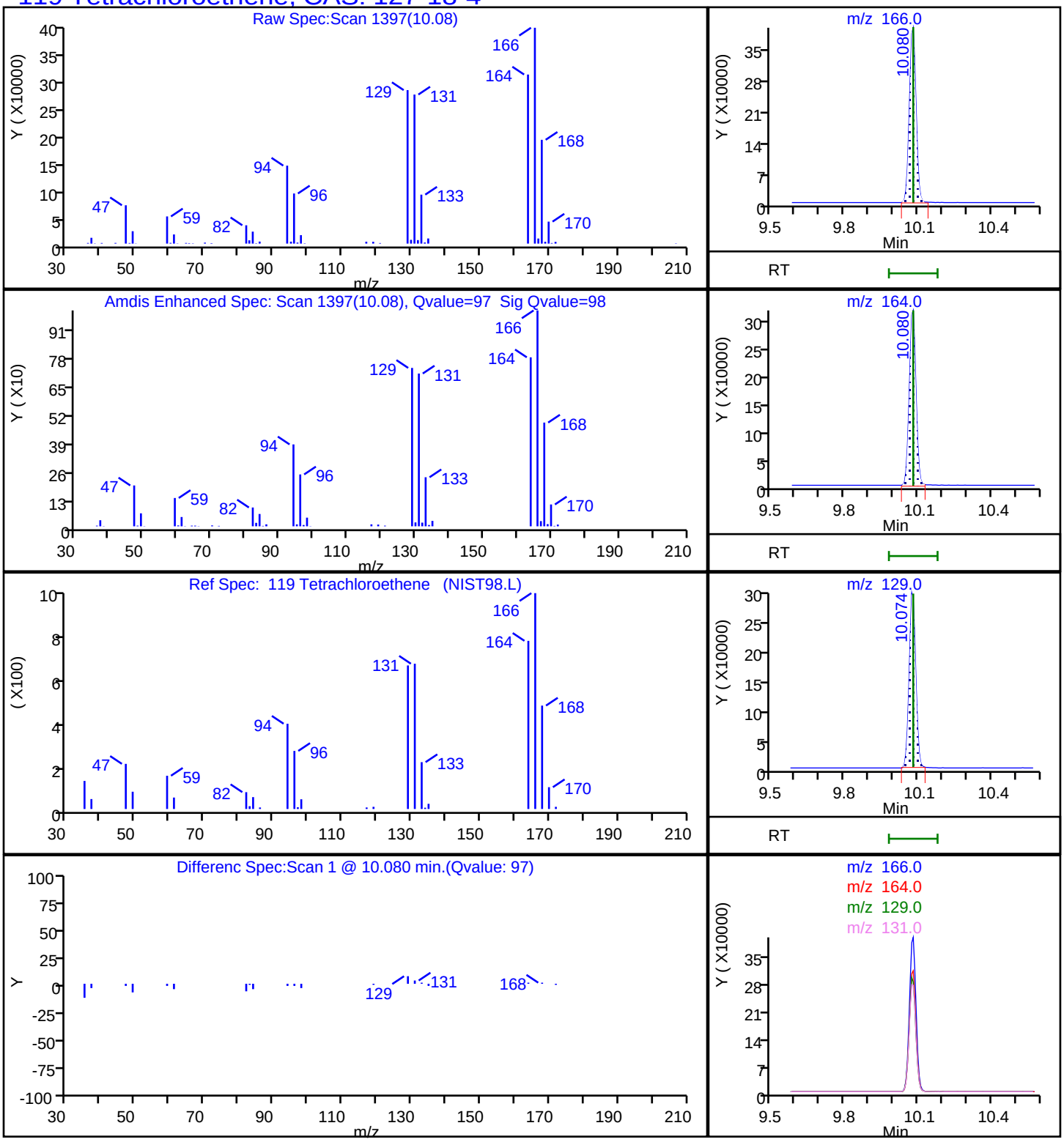
First Level Reviewer: FQ4L Date: 10-Jul-2024 09:41:30

Compound	Amount Added	Amount Recovered	% Rec.
$ 51 Dibromofluoromethane (Surr)	50.0	52.5	105.02
$ 57 1,2-Dichloroethane-d4 (Surr)	50.0	51.3	102.52
$ 80 Toluene-d8 (Surr)	50.0	50.3	100.61
$ 142 4-Bromofluorobenzene (Surr)	50.0	47.6	95.21

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X11.D				
Injection Date:	09-Jul-2024 13:45:30	Instrument ID:	23297		
Lims ID:	410-177784-A-1	Lab Sample ID:	410-177784-1		
Client ID:	HD-CW-21-0/1-0				
Operator ID:	CLM27445	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

119 Tetrachloroethene, CAS: 127-18-4

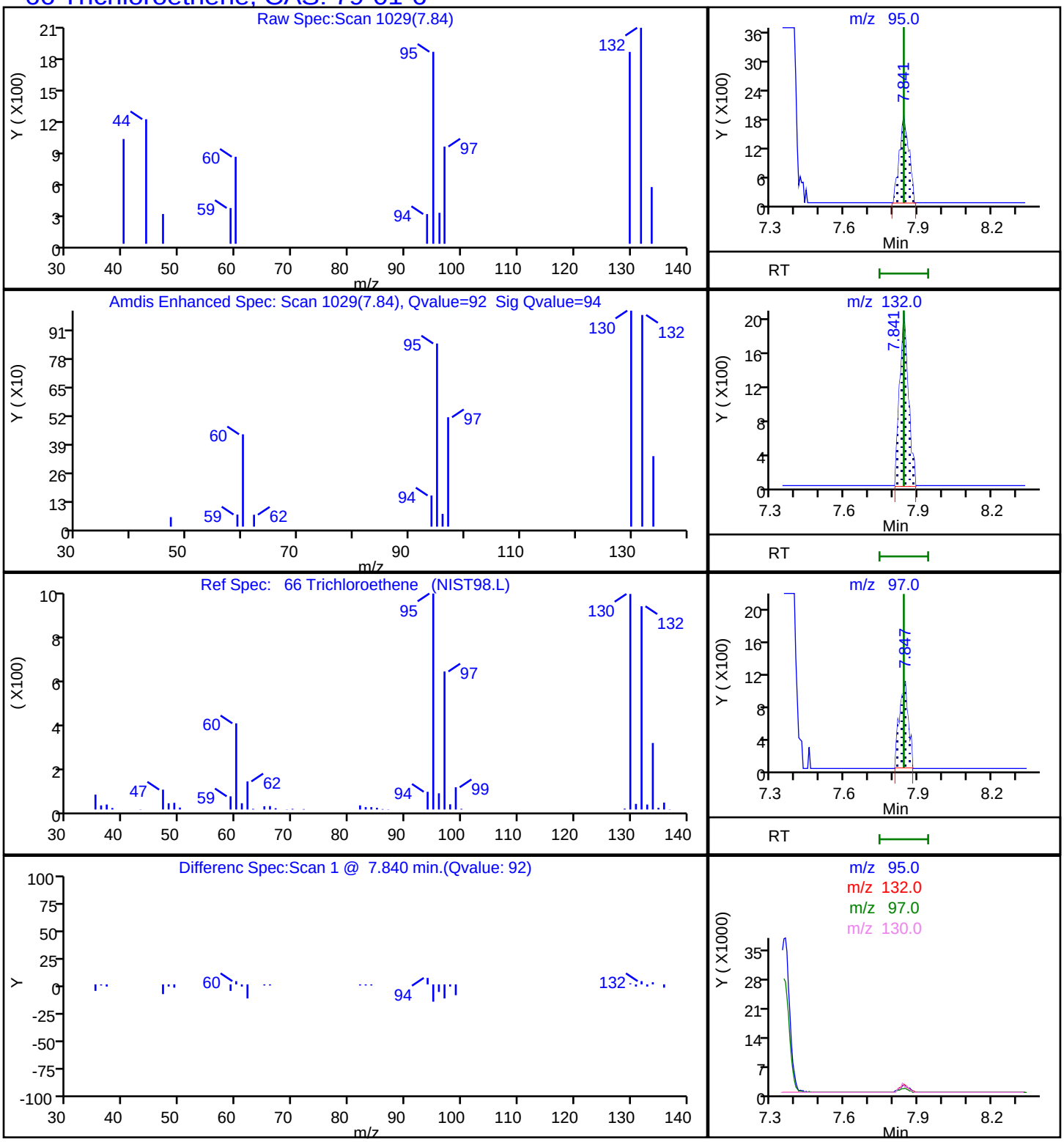


Report Date: 10-Jul-2024 09:41:31 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X11.D				
Injection Date:	09-Jul-2024 13:45:30	Instrument ID:	23297		
Lims ID:	410-177784-A-1	Lab Sample ID:	410-177784-1		
Client ID:	HD-CW-21-0/1-0				
Operator ID:	CLM27445	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

66 Trichloroethene, CAS: 79-01-6



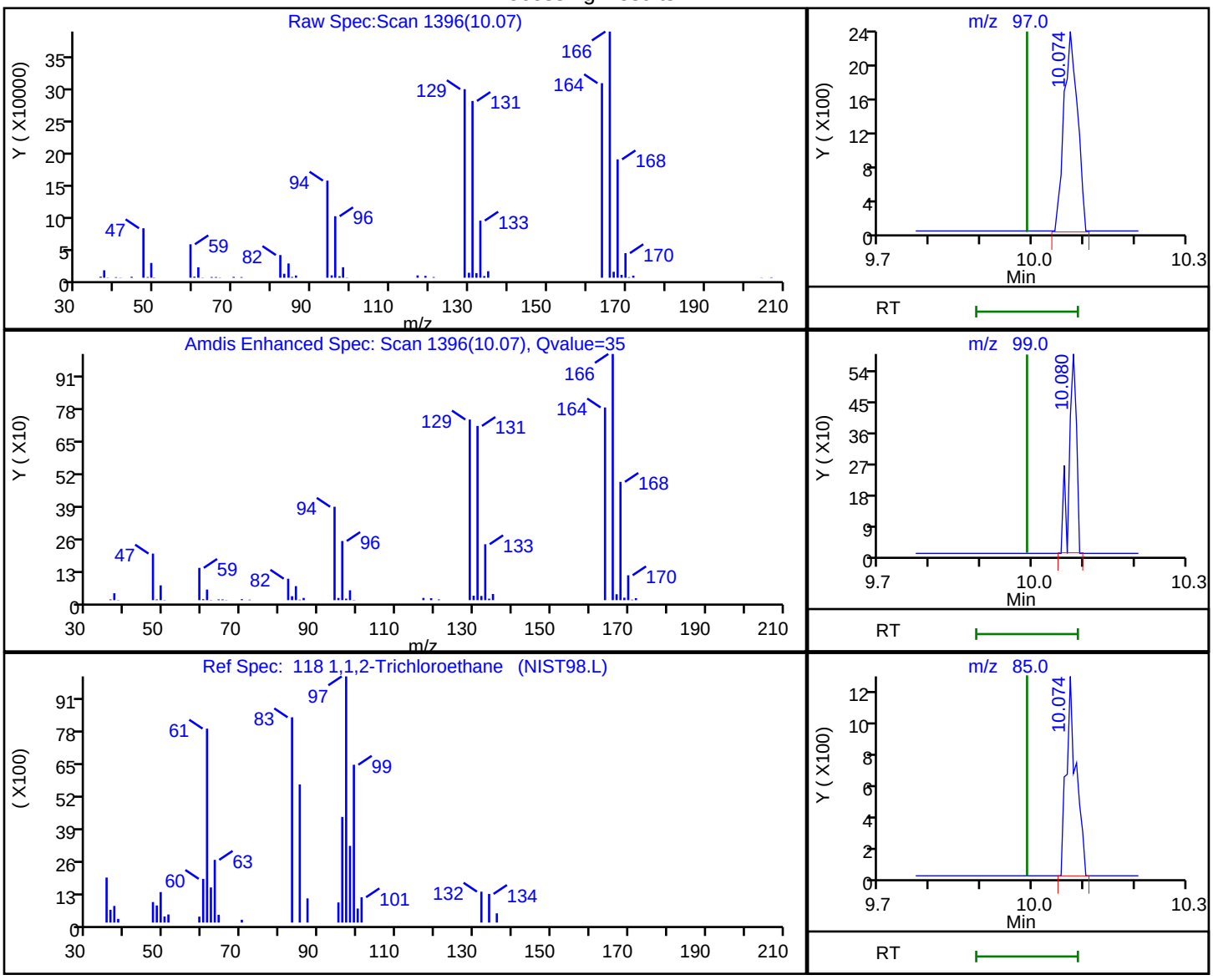
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X11.D				
Injection Date:	09-Jul-2024 13:45:30	Instrument ID:	23297		
Lims ID:	410-177784-A-1	Lab Sample ID:	410-177784-1		
Client ID:	HD-CW-21-0/1-0				
Operator ID:	CLM27445	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

118 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
10.07	97.00	4288	0.740363
10.08	99.00	598	
10.07	85.00	1637	
10.07	83.00	11504	

Reviewer: FQ4L, 10-Jul-2024 09:41:23 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177784-1

SDG No.:

Client Sample ID: HD-CW-22-0/1-0
Lab Sample ID: 410-177784-2

Matrix: Groundwater
Lab File ID: 4L09X12.D

Analysis Method: 8260D
Date Collected: 06/26/2024 10:53

Sample wt/vol: 5(mL)
Date Analyzed: 07/09/2024 14:07

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.: 525900
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP04

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	Ethylene Dibromide	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	^c cn	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	^c cn	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	56		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177784-1

SDG No.:

Client Sample ID: HD-CW-22-0/1-0
Lab Sample ID: 410-177784-2

Matrix: Groundwater
Lab File ID: 4L09X12.D

Analysis Method: 8260D
Date Collected: 06/26/2024 10:53

Sample wt/vol: 5(mL)
Date Analyzed: 07/09/2024 14:07

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.: 525900
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP04

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	1.0		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)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		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\23297\20240709-118805.b\4L09X12.D
Lims ID: 410-177784-A-2
Client ID: HD-CW-22-0/1-0
Sample Type: Client
Inject. Date: 09-Jul-2024 14:07:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118805-013
Operator ID: CLM27445 Instrument ID: 23297

Method: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 10-Jul-2024 09:41:55 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

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

First Level Reviewer: FQ4L Date: 10-Jul-2024 09:41:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	1.983	1.983	0.000	10	2935	0.2328	
5 Vinyl chloride	62		2.086				ND	7
8 Bromomethane	94		2.402				ND	7
9 Chloroethane	64		2.482				ND	
17 1,1-Dichloroethene	96		3.266				ND	
18 Acetone	58		3.272				ND	
22 Carbon disulfide	76		3.546				ND	
27 Methylene Chloride	84		3.862				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.863	3.887	-0.024	36	542492	250.0	
31 Methyl tert-butyl ether	73		4.221				ND	7
32 trans-1,2-Dichloroethene	96		4.234				ND	
35 1,1-Dichloroethane	63		4.891				ND	
40 2-Butanone (MEK)	43		5.718				ND	
41 cis-1,2-Dichloroethene	96		5.736				ND	7
48 Chlorobromomethane	128		6.071				ND	
50 Chloroform	83		6.229				ND	7
$ 51 Dibromofluoromethane (Surr)	113	6.442	6.448	-0.006	93	349257	52.6	
52 1,1,1-Trichloroethane	97		6.454				ND	
54 Carbon tetrachloride	117		6.679				ND	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	6.904	6.904	0.000	80	84303	52.1	
58 Benzene	78		6.941				ND	
59 1,2-Dichloroethane	62		7.014				ND	
* 62 Fluorobenzene (IS)	96	7.355	7.354	0.001	99	1316193	50.0	
66 Trichloroethene	95	7.847	7.841	0.006	96	7006	1.01	
69 1,2-Dichloropropane	63		8.176				ND	
75 Dichlorobromomethane	83		8.529				ND	
78 cis-1,3-Dichloropropene	75		9.094				ND	
79 4-Methyl-2-pentanone (MIBK)	43		9.283				ND	
$ 80 Toluene-d8 (Surr)	98	9.417	9.423	-0.006	93	1250171	49.5	
81 Toluene	92		9.502				ND	
82 trans-1,3-Dichloropropene	75		9.776				ND	
118 1,1,2-Trichloroethane	97		9.989				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
119 Tetrachloroethene	166	10.074	10.080	-0.006	97	372120	56.2	
123 2-Hexanone	43		10.220				ND	
125 Chlorodibromomethane	129		10.378				ND	
127 Ethylene Dibromide	107		10.487				ND	
* 128 Chlorobenzene-d5 (IS)	117	10.932	10.938	-0.006	84	937771	50.0	
130 Chlorobenzene	112		10.962				ND	
131 1,1,1,2-Tetrachloroethane	131		11.047				ND	
132 Ethylbenzene	91		11.053				ND	
134 m-Xylene & p-Xylene	106		11.175				ND	
S 133 Xylenes, Total	106		11.245				ND	7
136 o-Xylene	106		11.510				ND	
137 Styrene	104		11.522				ND	
138 Bromoform	173		11.674				ND	7
$ 142 4-Bromofluorobenzene (Surr)	95	11.954	11.954	0.000	92	443401	48.1	
143 1,1,2,2-Tetrachloroethane	83		12.063				ND	
* 160 1,4-Dichlorobenzene-d4	152	12.848	12.848	0.000	94	554923	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

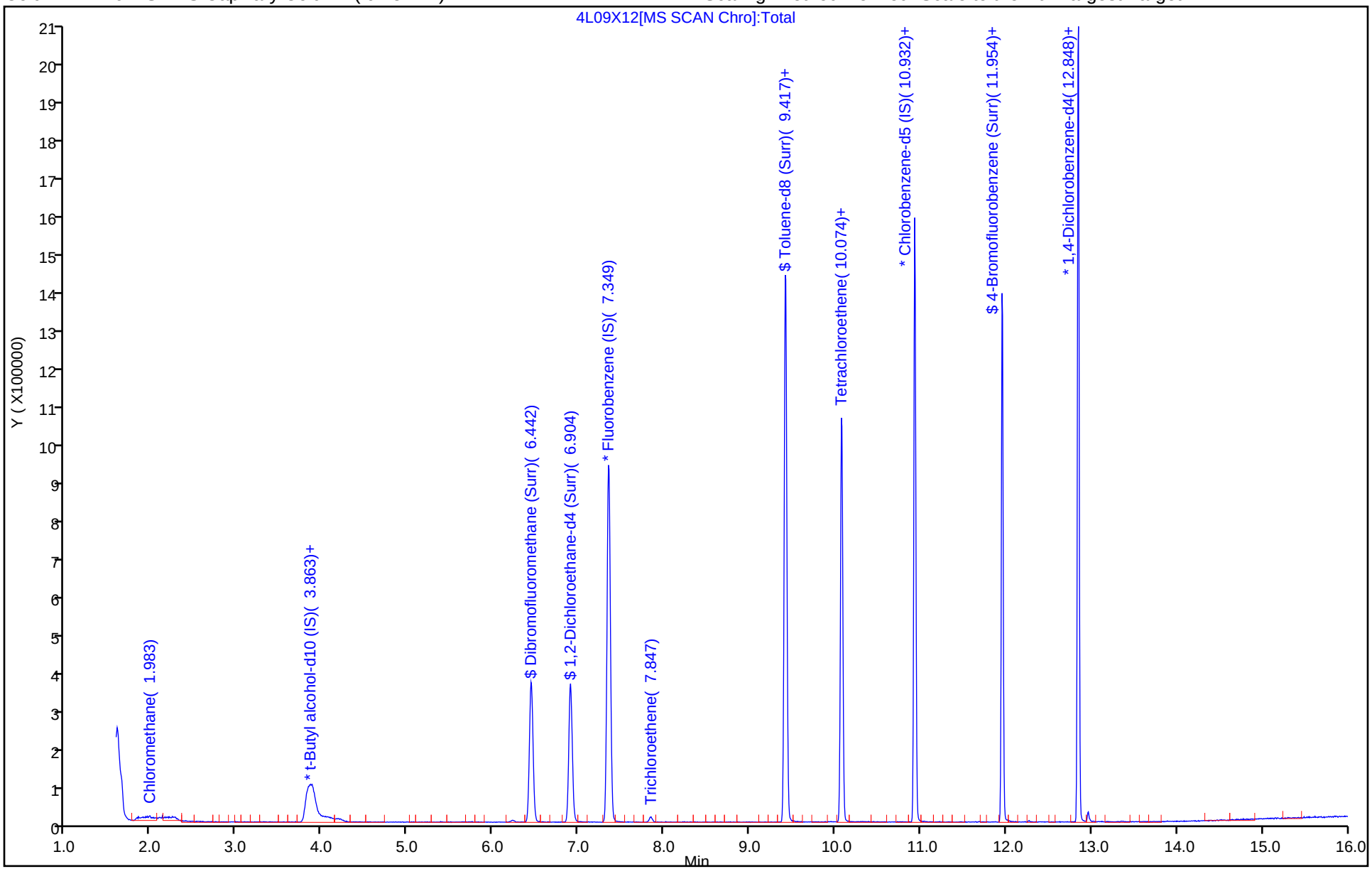
MSV_HP04_ISSS_00003 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 10-Jul-2024 09:41:56 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X12.D				
Injection Date:	09-Jul-2024 14:07:30	Instrument ID:	23297	Operator ID:	CLM27445
Lims ID:	410-177784-A-2	Lab Sample ID:	410-177784-2	Worklist Smp#:	13
Client ID:	HD-CW-22-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X12.D
Lims ID: 410-177784-A-2
Client ID: HD-CW-22-0/1-0
Sample Type: Client
Inject. Date: 09-Jul-2024 14:07:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118805-013
Operator ID: CLM27445 Instrument ID: 23297

Method: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 10-Jul-2024 09:41:55 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

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

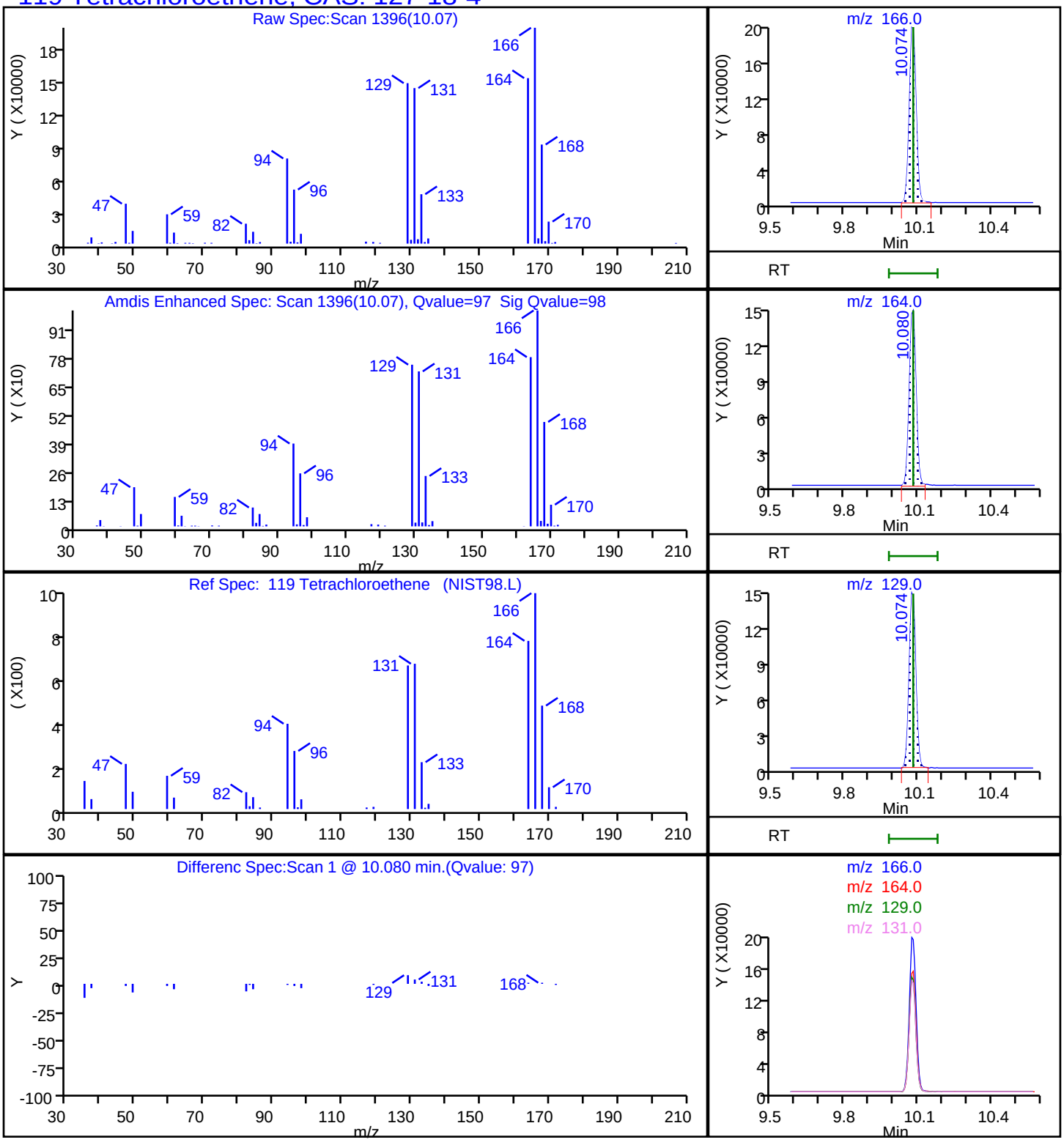
First Level Reviewer: FQ4L Date: 10-Jul-2024 09:41:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 51 Dibromofluoromethane (Surr)	50.0	52.6	105.19
$ 57 1,2-Dichloroethane-d4 (Surr)	50.0	52.1	104.22
$ 80 Toluene-d8 (Surr)	50.0	49.5	99.08
$ 142 4-Bromofluorobenzene (Surr)	50.0	48.1	96.16

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X12.D				
Injection Date:	09-Jul-2024 14:07:30	Instrument ID:	23297		
Lims ID:	410-177784-A-2	Lab Sample ID:	410-177784-2		
Client ID:	HD-CW-22-0/1-0				
Operator ID:	CLM27445	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

119 Tetrachloroethene, CAS: 127-18-4

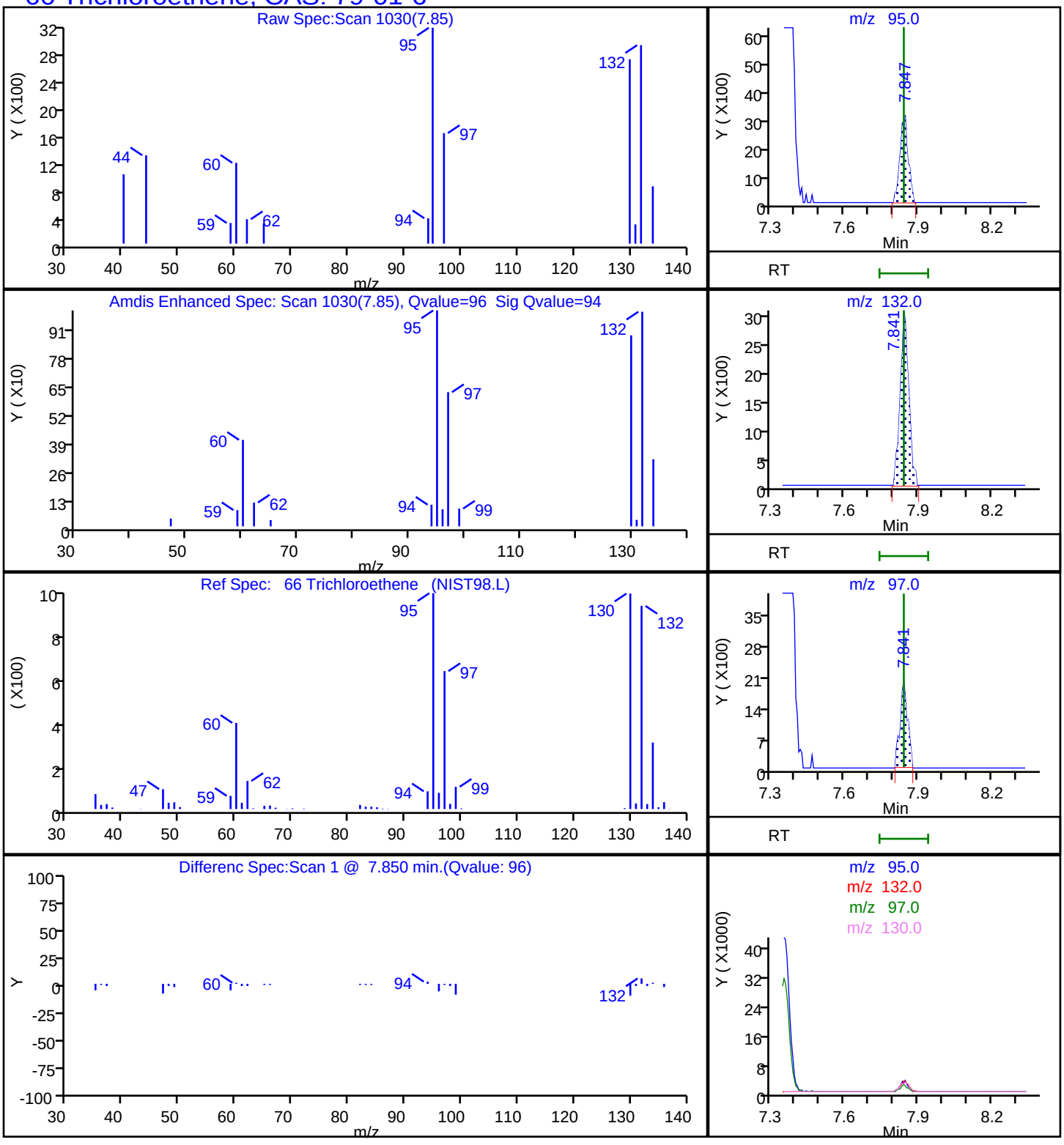


Report Date: 10-Jul-2024 09:41:56 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X12.D				
Injection Date:	09-Jul-2024 14:07:30	Instrument ID:	23297		
Lims ID:	410-177784-A-2	Lab Sample ID:	410-177784-2		
Client ID:	HD-CW-22-0/1-0				
Operator ID:	CLM27445	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

66 Trichloroethene, CAS: 79-01-6



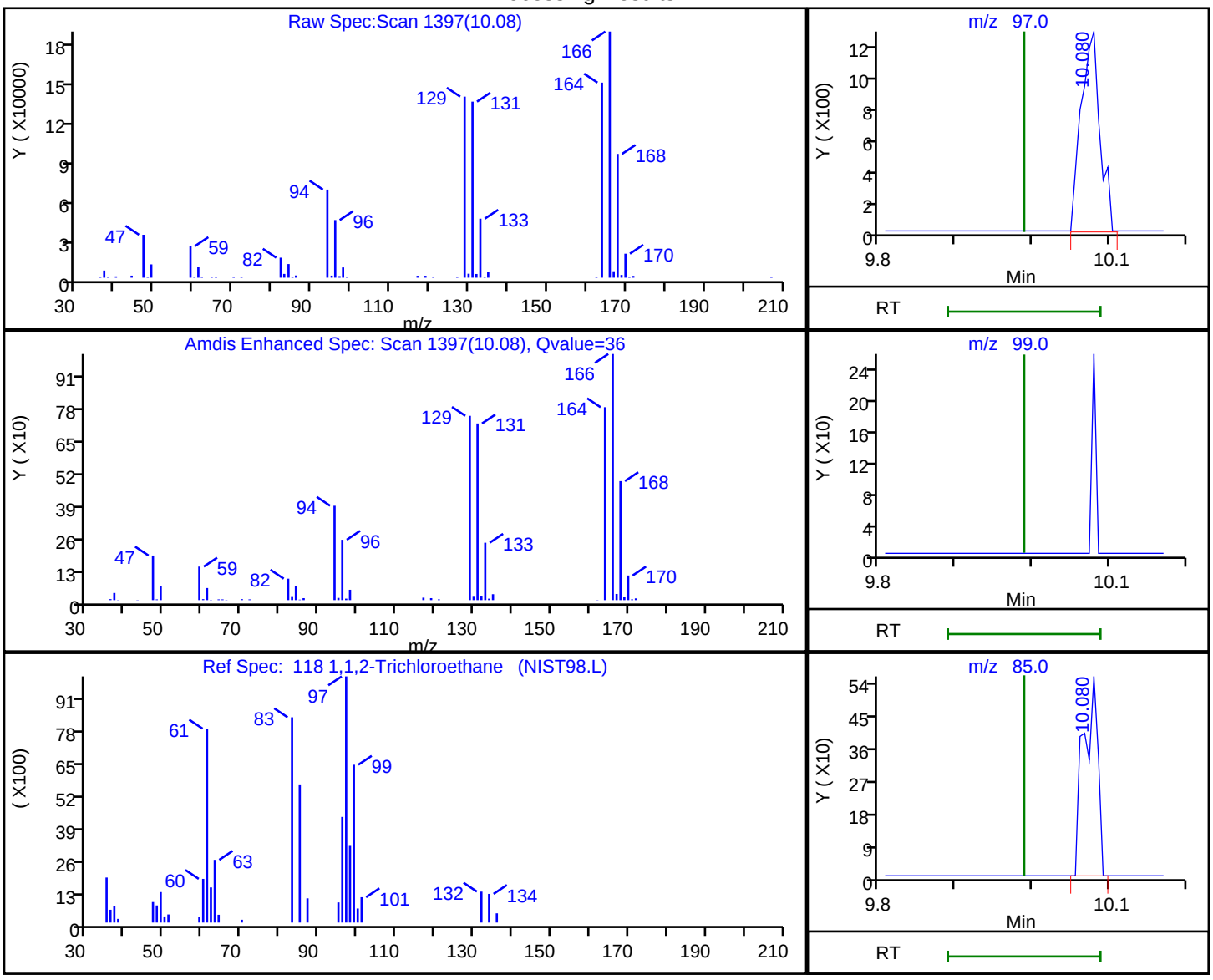
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X12.D				
Injection Date:	09-Jul-2024 14:07:30	Instrument ID:	23297		
Lims ID:	410-177784-A-2	Lab Sample ID:	410-177784-2		
Client ID:	HD-CW-22-0/1-0				
Operator ID:	CLM27445	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

118 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
10.08	97.00	2108	0.337867
9.99	99.00	0	
10.08	85.00	730	
10.07	83.00	5939	

Reviewer: FQ4L, 10-Jul-2024 09:41:48 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177784-1

SDG No.:

Client Sample ID: HD-CW-23-0/1-0
Lab Sample ID: 410-177784-3

Matrix: Groundwater
Lab File ID: 4L09X13.D

Analysis Method: 8260D
Date Collected: 06/26/2024 11:00

Sample wt/vol: 5(mL)
Date Analyzed: 07/09/2024 14:30

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.: 525900
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP04

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	Ethylene Dibromide	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	^c cn	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	^c cn	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	34		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177784-1

SDG No.:

Client Sample ID: HD-CW-23-0/1-0
Lab Sample ID: 410-177784-3

Matrix: Groundwater
Lab File ID: 4L09X13.D

Analysis Method: 8260D
Date Collected: 06/26/2024 11:00

Sample wt/vol: 5(mL)
Date Analyzed: 07/09/2024 14:30

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.: 525900
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP04

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)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		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\23297\20240709-118805.b\4L09X13.D
Lims ID: 410-177784-A-3
Client ID: HD-CW-23-0/1-0
Sample Type: Client
Inject. Date: 09-Jul-2024 14:30:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118805-014
Operator ID: CLM27445 Instrument ID: 23297

Method: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 10-Jul-2024 09:42:36 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

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

First Level Reviewer: FQ4L Date: 10-Jul-2024 09:42:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		1.983				ND	U
5 Vinyl chloride	62		2.086				ND	
8 Bromomethane	94		2.402				ND	7
9 Chloroethane	64		2.482				ND	
17 1,1-Dichloroethene	96		3.266				ND	
18 Acetone	58		3.272				ND	
22 Carbon disulfide	76		3.546				ND	7
27 Methylene Chloride	84		3.862				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.862	3.887	-0.025	35	533734	250.0	
31 Methyl tert-butyl ether	73		4.221				ND	
32 trans-1,2-Dichloroethene	96		4.234				ND	
35 1,1-Dichloroethane	63		4.891				ND	
40 2-Butanone (MEK)	43		5.718				ND	
41 cis-1,2-Dichloroethene	96		5.736				ND	
48 Chlorobromomethane	128		6.071				ND	
50 Chloroform	83		6.229				ND	7
$ 51 Dibromofluoromethane (Surr)	113	6.442	6.448	-0.006	93	334812	52.6	
52 1,1,1-Trichloroethane	97		6.454				ND	
54 Carbon tetrachloride	117		6.679				ND	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	6.904	6.904	0.000	79	80671	52.0	
58 Benzene	78		6.941				ND	
59 1,2-Dichloroethane	62		7.014				ND	
* 62 Fluorobenzene (IS)	96	7.354	7.354	0.000	100	1261460	50.0	
66 Trichloroethene	95	7.835	7.841	-0.006	92	2865	0.4310	
69 1,2-Dichloropropane	63		8.176				ND	
75 Dichlorobromomethane	83		8.529				ND	
78 cis-1,3-Dichloropropene	75		9.094				ND	
79 4-Methyl-2-pentanone (MIBK)	43		9.283				ND	
$ 80 Toluene-d8 (Surr)	98	9.417	9.423	-0.006	93	1209429	49.4	
81 Toluene	92		9.502				ND	
82 trans-1,3-Dichloropropene	75		9.776				ND	
118 1,1,2-Trichloroethane	97		9.989				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
119 Tetrachloroethene	166	10.080	10.080	0.000	97	217465	33.9	
123 2-Hexanone	43		10.220				ND	7
125 Chlorodibromomethane	129		10.378				ND	
127 Ethylene Dibromide	107		10.487				ND	
* 128 Chlorobenzene-d5 (IS)	117	10.932	10.938	-0.006	84	909789	50.0	
130 Chlorobenzene	112		10.962				ND	
131 1,1,1,2-Tetrachloroethane	131		11.047				ND	
132 Ethylbenzene	91		11.053				ND	
134 m-Xylene & p-Xylene	106		11.175				ND	
S 133 Xylenes, Total	106		11.245				ND	7
136 o-Xylene	106		11.510				ND	
137 Styrene	104		11.522				ND	
138 Bromoform	173		11.674				ND	
$ 142 4-Bromofluorobenzene (Surr)	95	11.954	11.954	0.000	93	421086	47.1	
143 1,1,2,2-Tetrachloroethane	83		12.063				ND	
* 160 1,4-Dichlorobenzene-d4	152	12.848	12.848	0.000	94	518245	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_HP04_ISSS_00003 Amount Added: 1.00 Units: uL Run Reagent

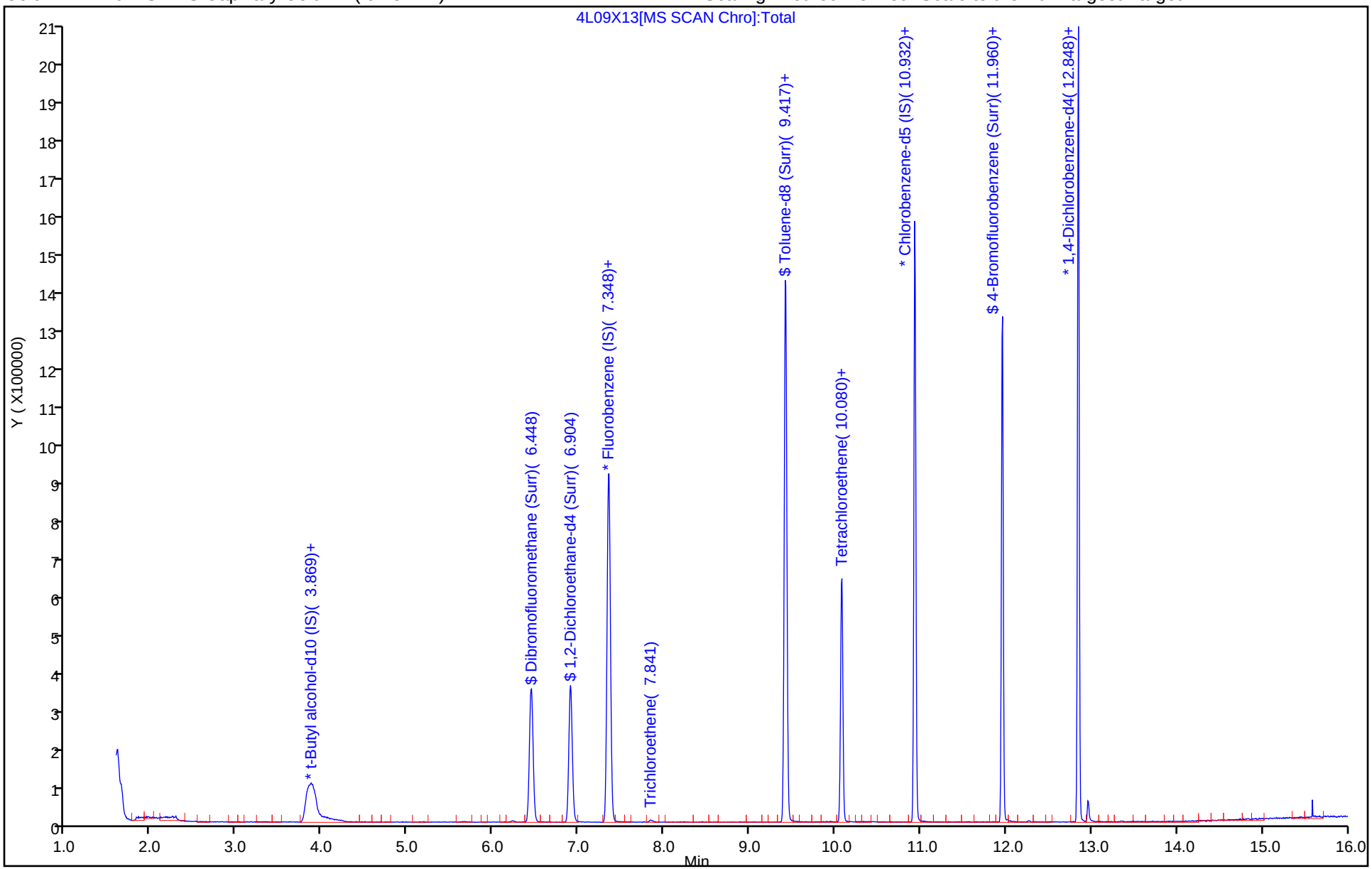
Report Date: 10-Jul-2024 09:42:36 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X13.D

Injection Date:	09-Jul-2024 14:30:30	Instrument ID:	23297	Operator ID:	CLM27445
Lims ID:	410-177784-A-3	Lab Sample ID:	410-177784-3	Worklist Smp#:	14
Client ID:	HD-CW-23-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X13.D
Lims ID: 410-177784-A-3
Client ID: HD-CW-23-0/1-0
Sample Type: Client
Inject. Date: 09-Jul-2024 14:30:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118805-014
Operator ID: CLM27445 Instrument ID: 23297

Method: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 10-Jul-2024 09:42:36 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

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

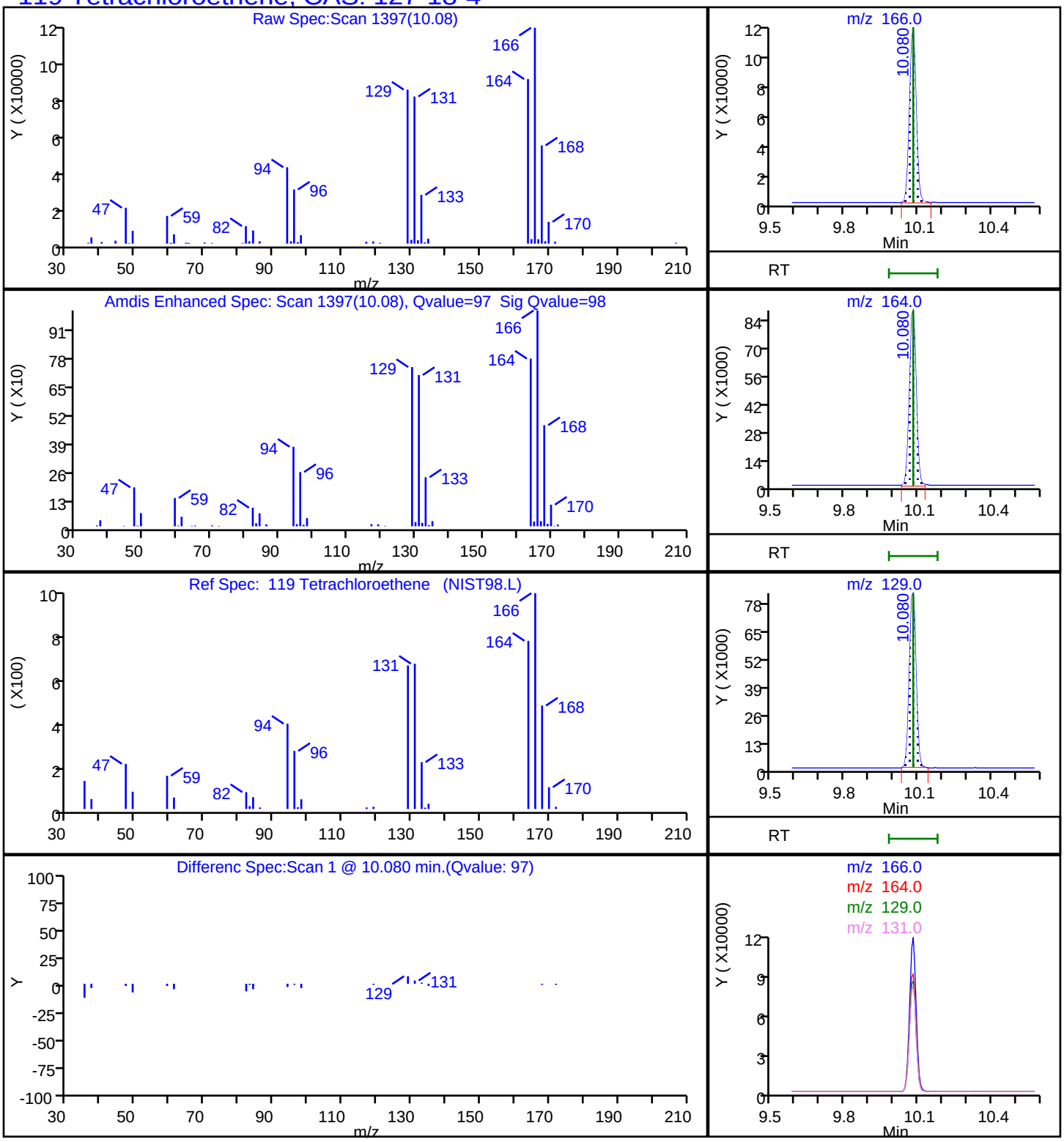
First Level Reviewer: FQ4L Date: 10-Jul-2024 09:42:36

Compound	Amount Added	Amount Recovered	% Rec.
$ 51 Dibromofluoromethane (Surr)	50.0	52.6	105.21
$ 57 1,2-Dichloroethane-d4 (Surr)	50.0	52.0	104.05
$ 80 Toluene-d8 (Surr)	50.0	49.4	98.80
$ 142 4-Bromofluorobenzene (Surr)	50.0	47.1	94.13

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X13.D				
Injection Date:	09-Jul-2024 14:30:30	Instrument ID:	23297		
Lims ID:	410-177784-A-3	Lab Sample ID:	410-177784-3		
Client ID:	HD-CW-23-0/1-0				
Operator ID:	CLM27445	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

119 Tetrachloroethene, CAS: 127-18-4

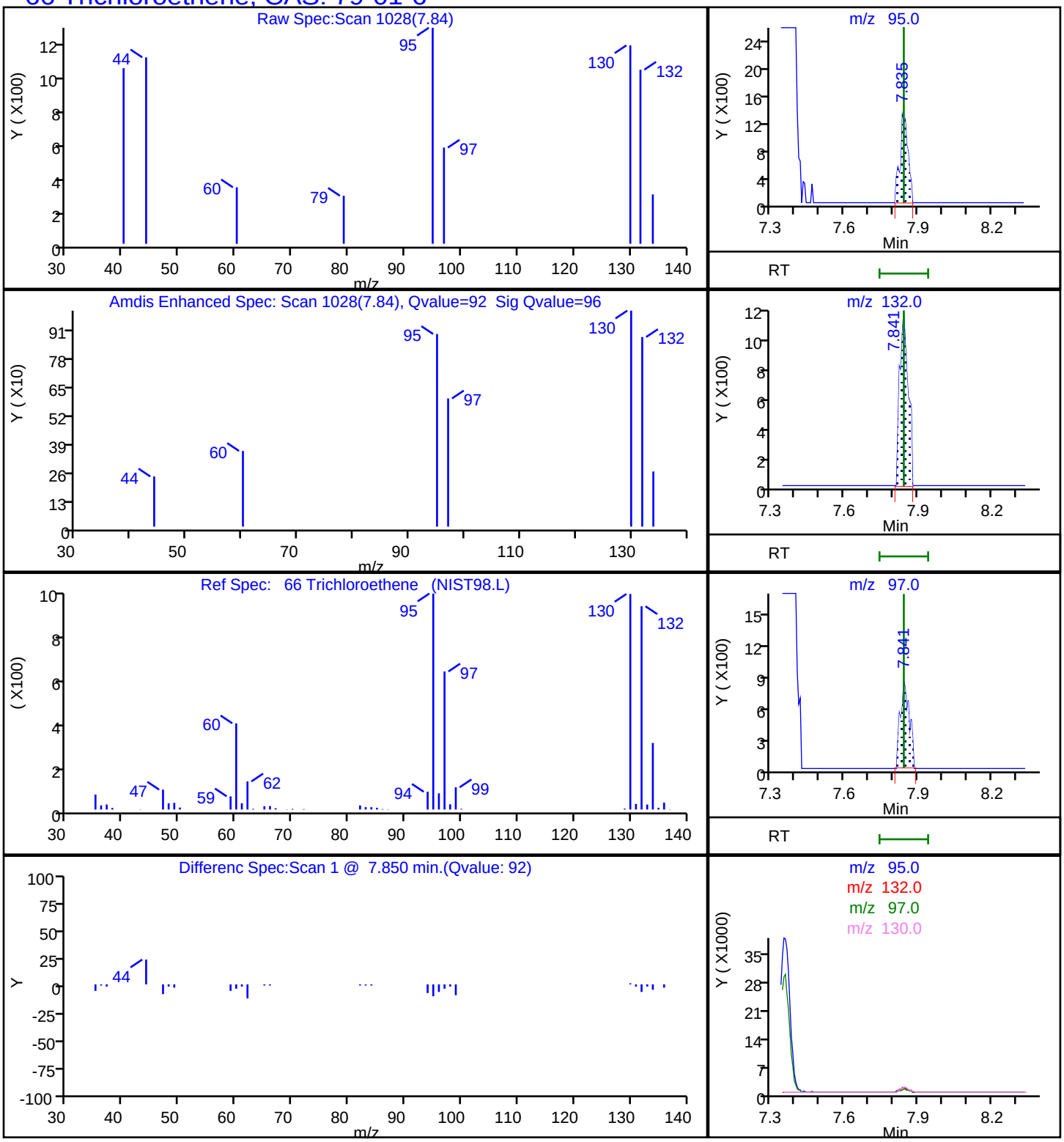


Report Date: 10-Jul-2024 09:42:36 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X13.D				
Injection Date:	09-Jul-2024 14:30:30	Instrument ID:	23297		
Lims ID:	410-177784-A-3	Lab Sample ID:	410-177784-3		
Client ID:	HD-CW-23-0/1-0				
Operator ID:	CLM27445	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

66 Trichloroethene, CAS: 79-01-6



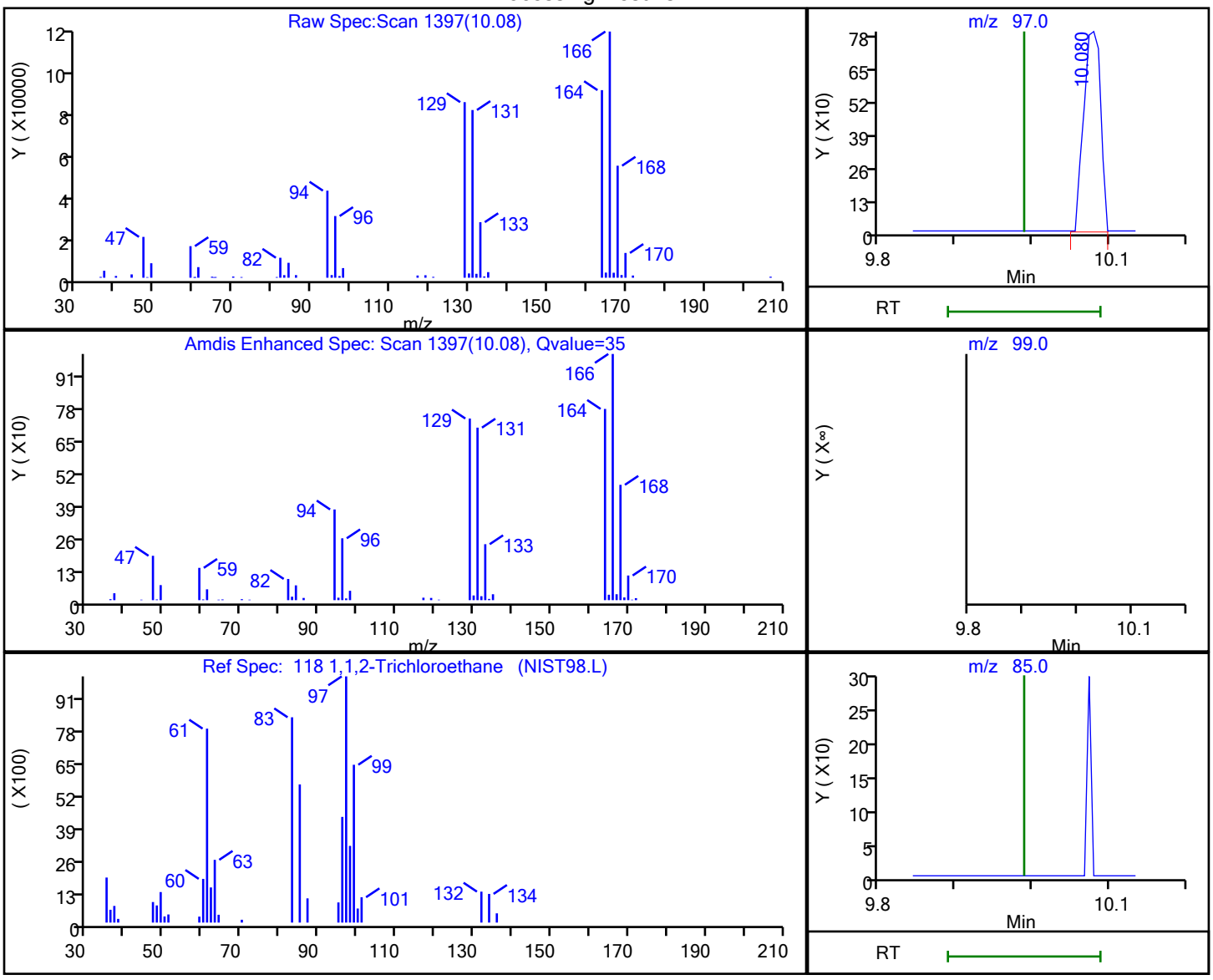
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X13.D				
Injection Date:	09-Jul-2024 14:30:30	Instrument ID:	23297		
Lims ID:	410-177784-A-3	Lab Sample ID:	410-177784-3		
Client ID:	HD-CW-23-0/1-0				
Operator ID:	CLM27445	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

118 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
10.08	97.00	1236	0.204197
9.99	99.00	0	
9.99	85.00	0	
10.07	83.00	3335	

Reviewer: FQ4L, 10-Jul-2024 09:42:26 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

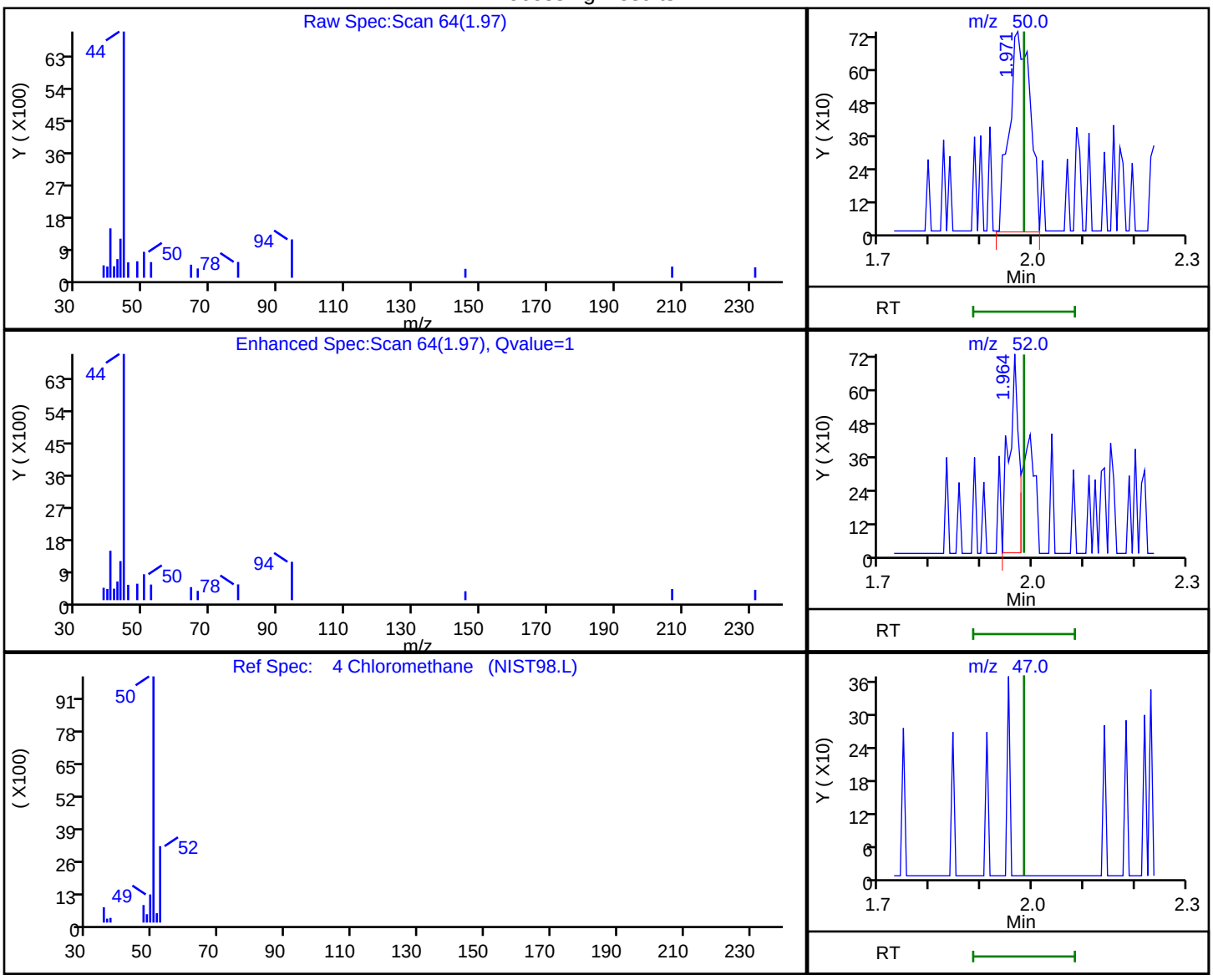
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X13.D				
Injection Date:	09-Jul-2024 14:30:30	Instrument ID:	23297		
Lims ID:	410-177784-A-3	Lab Sample ID:	410-177784-3		
Client ID:	HD-CW-23-0/1-0				
Operator ID:	CLM27445	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

4 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.97	50.00	2106	0.174294
1.96	52.00	944	
1.98	47.00	0	

Reviewer: FQ4L, 10-Jul-2024 09:42:17 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177784-1

SDG No.:

Client Sample ID: HD-SPBA-EFF-0/1-0
Lab Sample ID: 410-177784-4

Matrix: Groundwater
Lab File ID: 4L09X14.D

Analysis Method: 8260D
Date Collected: 06/26/2024 11:06

Sample wt/vol: 5(mL)
Date Analyzed: 07/09/2024 14:52

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.: 525900
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP04

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	Ethylene Dibromide	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	^c cn	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	^c cn	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	95		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177784-1

SDG No.:

Client Sample ID: HD-SPBA-EFF-0/1-0
Lab Sample ID: 410-177784-4

Matrix: Groundwater
Lab File ID: 4L09X14.D

Analysis Method: 8260D
Date Collected: 06/26/2024 11:06

Sample wt/vol: 5(mL)
Date Analyzed: 07/09/2024 14:52

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.: 525900
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP04

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	0.76	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)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X14.D
Lims ID: 410-177784-A-4
Client ID: HD-SPBA-EFF-0/1-0
Sample Type: Client
Inject. Date: 09-Jul-2024 14:52:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118805-015
Operator ID: CLM27445 Instrument ID: 23297

Method: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 10-Jul-2024 09:44:10 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

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

First Level Reviewer: FQ4L Date: 10-Jul-2024 09:44:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		1.983				ND	7
5 Vinyl chloride	62		2.086				ND	
8 Bromomethane	94		2.402				ND	7
9 Chloroethane	64		2.482				ND	
17 1,1-Dichloroethene	96		3.266				ND	
18 Acetone	58		3.272				ND	
22 Carbon disulfide	76		3.546				ND	
27 Methylene Chloride	84		3.862				ND	
* 28 t-Butyl alcohol-d10 (IS)	65	3.875	3.887	-0.012	35	488036	250.0	
31 Methyl tert-butyl ether	73		4.221				ND	7
32 trans-1,2-Dichloroethene	96		4.234				ND	
35 1,1-Dichloroethane	63		4.891				ND	
40 2-Butanone (MEK)	43		5.718				ND	
41 cis-1,2-Dichloroethene	96		5.736				ND	
48 Chlorobromomethane	128		6.071				ND	
50 Chloroform	83		6.229				ND	7
$ 51 Dibromofluoromethane (Surr)	113	6.448	6.448	0.000	94	341578	52.3	
52 1,1,1-Trichloroethane	97		6.454				ND	
54 Carbon tetrachloride	117		6.679				ND	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	6.910	6.904	0.006	80	79834	50.2	
58 Benzene	78		6.941				ND	
59 1,2-Dichloroethane	62		7.014				ND	
* 62 Fluorobenzene (IS)	96	7.354	7.354	0.000	99	1294089	50.0	
66 Trichloroethene	95	7.853	7.841	0.012	95	5208	0.7637	
69 1,2-Dichloropropane	63		8.176				ND	
75 Dichlorobromomethane	83		8.529				ND	
78 cis-1,3-Dichloropropene	75		9.094				ND	
79 4-Methyl-2-pentanone (MIBK)	43		9.283				ND	
$ 80 Toluene-d8 (Surr)	98	9.423	9.423	0.000	93	1230701	50.0	
81 Toluene	92		9.502				ND	
82 trans-1,3-Dichloropropene	75		9.776				ND	
118 1,1,2-Trichloroethane	97		9.989				ND	U

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
119 Tetrachloroethene	166	10.080	10.080	0.000	97	615786	95.4	
123 2-Hexanone	43		10.220				ND	
125 Chlorodibromomethane	129		10.378				ND	
127 Ethylene Dibromide	107		10.487				ND	
* 128 Chlorobenzene-d5 (IS)	117	10.932	10.938	-0.006	84	914355	50.0	
130 Chlorobenzene	112		10.962				ND	
131 1,1,1,2-Tetrachloroethane	131		11.047				ND	
132 Ethylbenzene	91		11.053				ND	
134 m-Xylene & p-Xylene	106		11.175				ND	
S 133 Xylenes, Total	106		11.245				ND	7
136 o-Xylene	106		11.510				ND	
137 Styrene	104		11.522				ND	
138 Bromoform	173		11.674				ND	7
$ 142 4-Bromofluorobenzene (Surr)	95	11.954	11.954	0.000	94	421155	46.8	
143 1,1,2,2-Tetrachloroethane	83		12.063				ND	
* 160 1,4-Dichlorobenzene-d4	152	12.848	12.848	0.000	94	529522	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

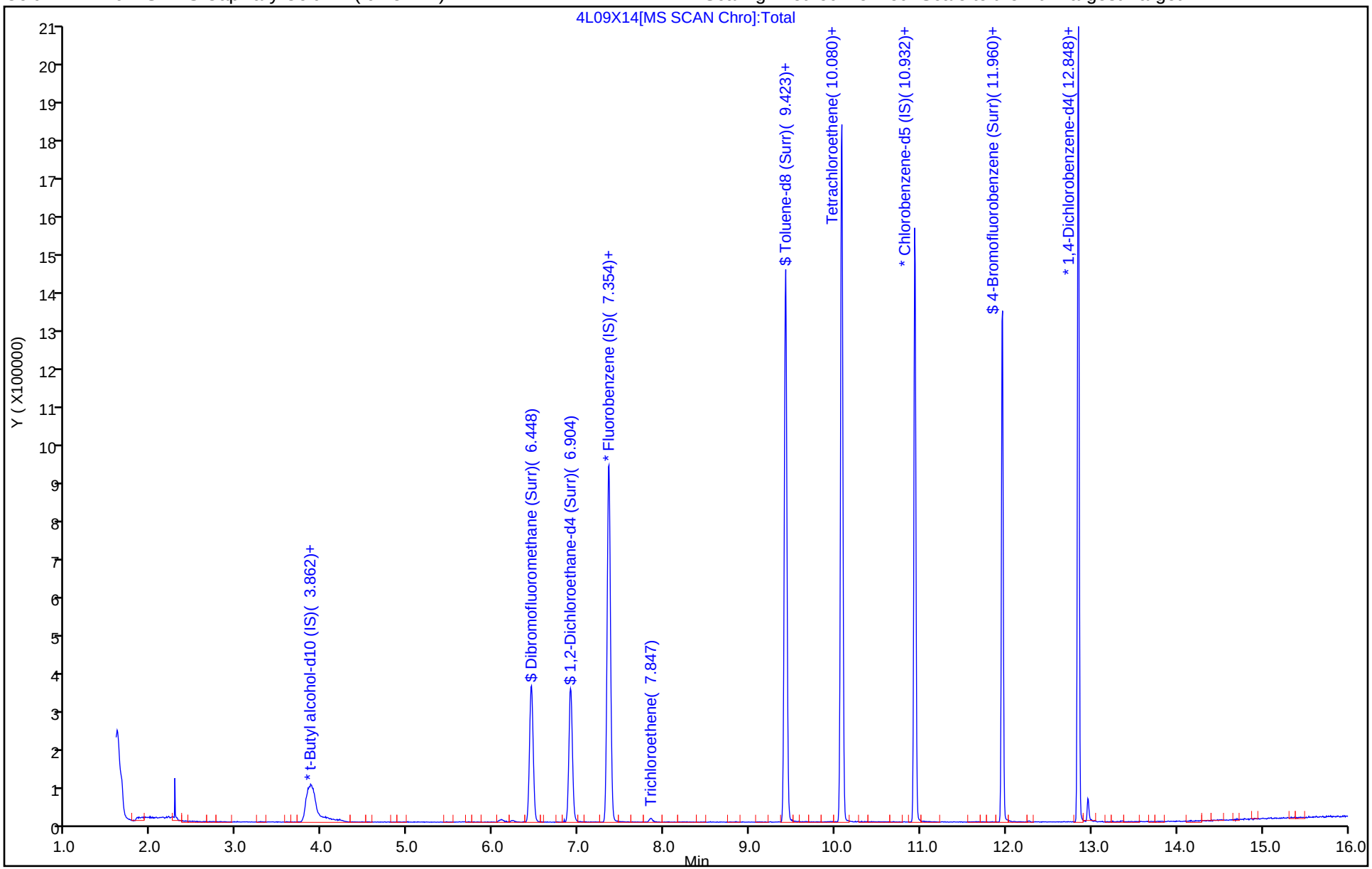
MSV_HP04_ISSS_00003 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 10-Jul-2024 09:44:11 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X14.D				
Injection Date:	09-Jul-2024 14:52:30	Instrument ID:	23297	Operator ID:	CLM27445
Lims ID:	410-177784-A-4	Lab Sample ID:	410-177784-4	Worklist Smp#:	15
Client ID:	HD-SPBA-EFF-0/1-0				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X14.D
Lims ID: 410-177784-A-4
Client ID: HD-SPBA-EFF-0/1-0
Sample Type: Client
Inject. Date: 09-Jul-2024 14:52:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118805-015
Operator ID: CLM27445 Instrument ID: 23297

Method: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 10-Jul-2024 09:44:10 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

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

First Level Reviewer: FQ4L Date: 10-Jul-2024 09:44:10

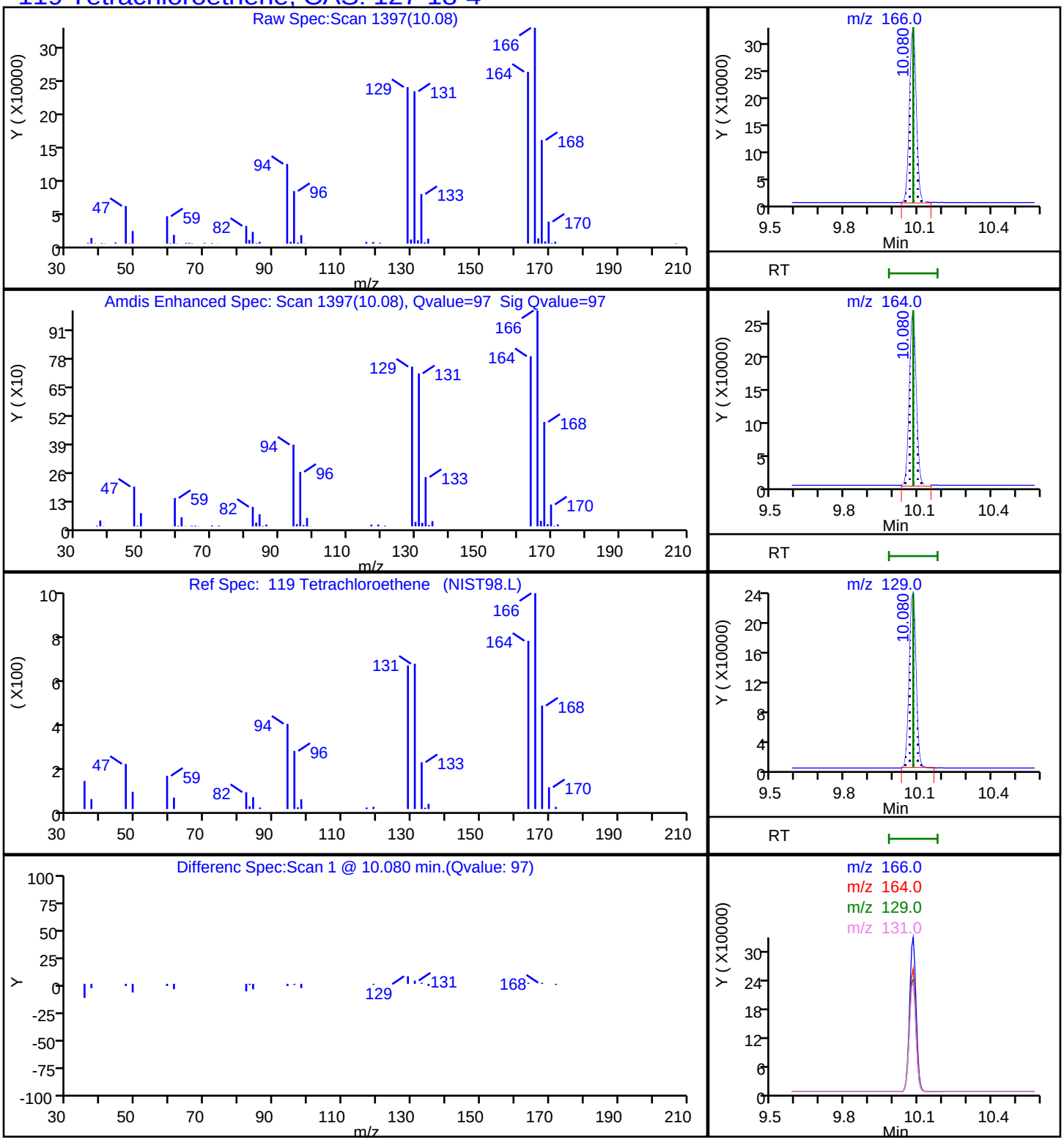
Compound	Amount Added	Amount Recovered	% Rec.
$ 51 Dibromofluoromethane (Surr)	50.0	52.3	104.63
$ 57 1,2-Dichloroethane-d4 (Surr)	50.0	50.2	100.38
$ 80 Toluene-d8 (Surr)	50.0	50.0	100.04
$ 142 4-Bromofluorobenzene (Surr)	50.0	46.8	93.68

Report Date: 10-Jul-2024 09:44:11 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X14.D				
Injection Date:	09-Jul-2024 14:52:30	Instrument ID:	23297		
Lims ID:	410-177784-A-4	Lab Sample ID:	410-177784-4		
Client ID:	HD-SPBA-EFF-0/1-0				
Operator ID:	CLM27445	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

119 Tetrachloroethene, CAS: 127-18-4

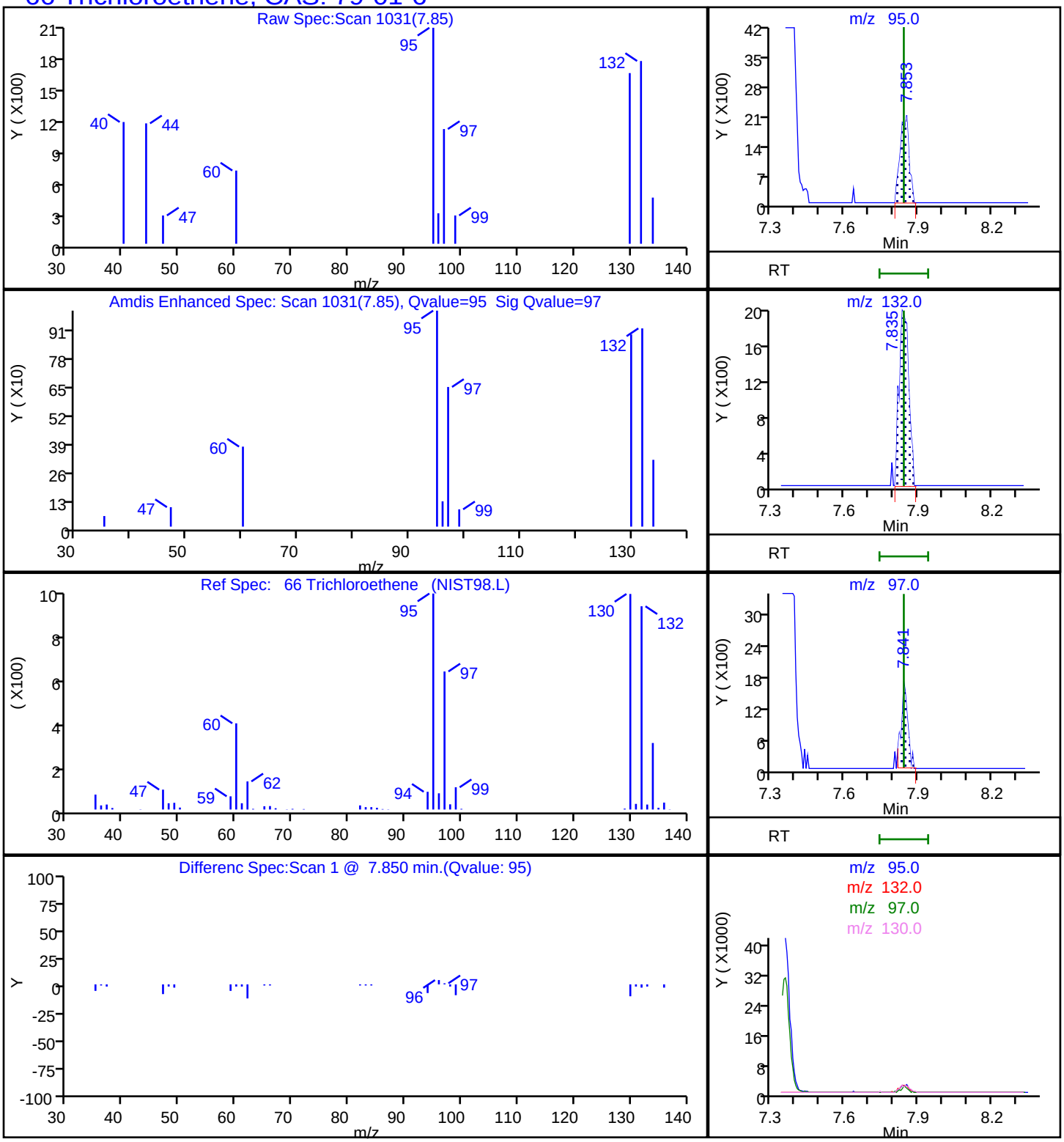


Report Date: 10-Jul-2024 09:44:11 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X14.D				
Injection Date:	09-Jul-2024 14:52:30	Instrument ID:	23297		
Lims ID:	410-177784-A-4	Lab Sample ID:	410-177784-4		
Client ID:	HD-SPBA-EFF-0/1-0				
Operator ID:	CLM27445	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

66 Trichloroethene, CAS: 79-01-6



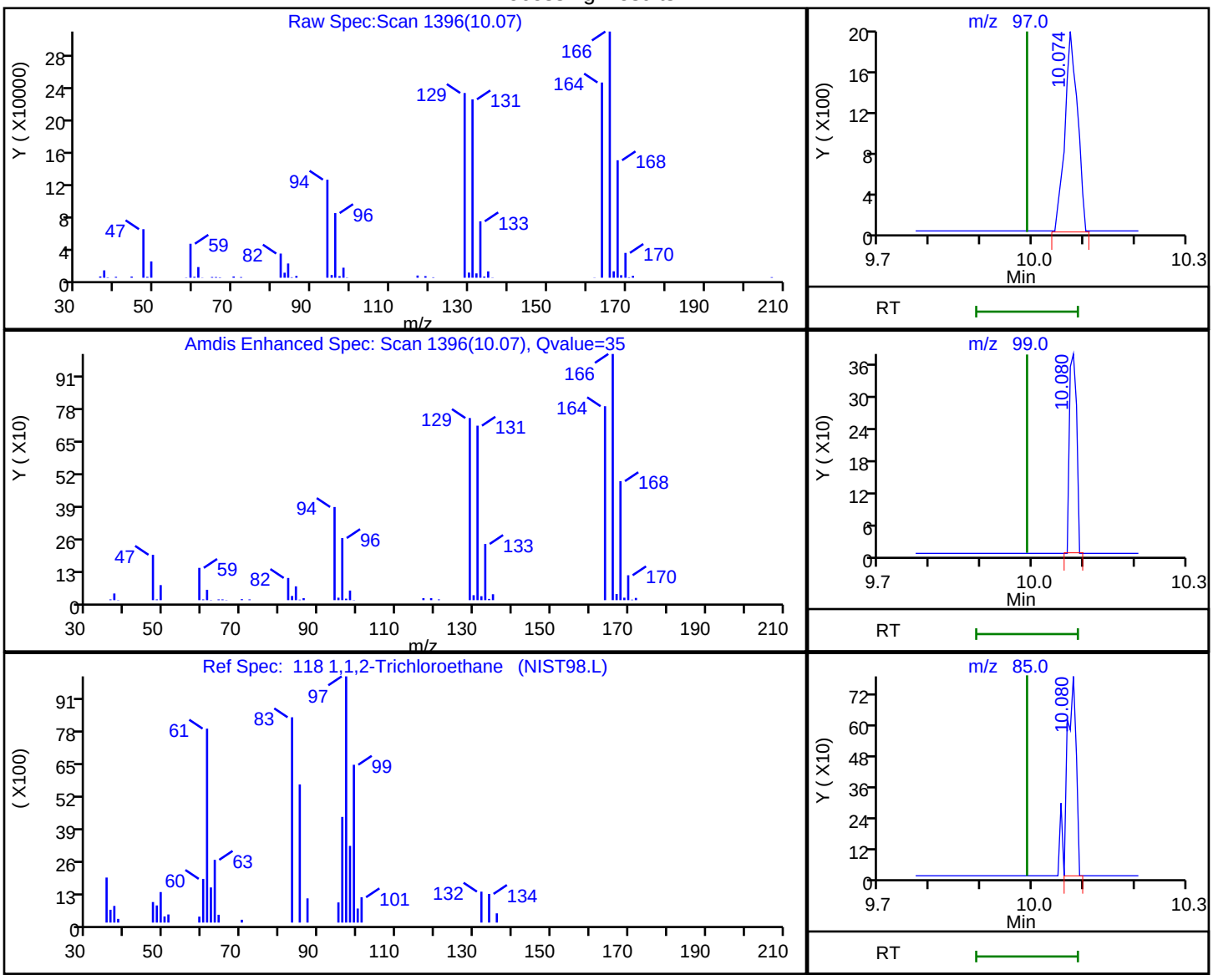
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X14.D				
Injection Date:	09-Jul-2024 14:52:30	Instrument ID:	23297		
Lims ID:	410-177784-A-4	Lab Sample ID:	410-177784-4		
Client ID:	HD-SPBA-EFF-0/1-0				
Operator ID:	CLM27445	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

118 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
10.07	97.00	3374	0.554629
10.08	99.00	367	
10.08	85.00	890	
10.07	83.00	10134	

Reviewer: FQ4L, 10-Jul-2024 09:44:01 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177784-1

SDG No.:

Client Sample ID: Trip Blank
Lab Sample ID: 410-177784-5

Matrix: WQ
Lab File ID: 4L09X15.D

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

Sample wt/vol: 5(mL)
Date Analyzed: 07/09/2024 15:15

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.: 525900
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP04

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	Ethylene Dibromide	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	1.4	J	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	^c cn	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	^c cn	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.: 410-177784-1

SDG No.:

Client Sample ID: Trip Blank
Lab Sample ID: 410-177784-5

Matrix: WQ
Lab File ID: 4L09X15.D

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

Sample wt/vol: 5(mL)
Date Analyzed: 07/09/2024 15:15

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.: 525900
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP04

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)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X15.D
Lims ID: 410-177784-A-5
Client ID: Trip Blank
Sample Type: Client
Inject. Date: 09-Jul-2024 15:15:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118805-016
Operator ID: CLM27445 Instrument ID: 23297

Method: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 10-Jul-2024 09:46:06 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

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

First Level Reviewer: FQ4L Date: 10-Jul-2024 09:46:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50		1.983				ND	7
5 Vinyl chloride	62		2.086				ND	
8 Bromomethane	94		2.402				ND	7
9 Chloroethane	64		2.482				ND	
17 1,1-Dichloroethene	96		3.266				ND	
18 Acetone	58	3.272	3.272	0.000	97	1791	1.41	
22 Carbon disulfide	76		3.546				ND	
27 Methylene Chloride	84		3.862				ND	U
* 28 t-Butyl alcohol-d10 (IS)	65	3.869	3.887	-0.018	36	518033	250.0	
31 Methyl tert-butyl ether	73		4.221				ND	
32 trans-1,2-Dichloroethene	96		4.234				ND	
35 1,1-Dichloroethane	63		4.891				ND	
40 2-Butanone (MEK)	43		5.718				ND	7
41 cis-1,2-Dichloroethene	96		5.736				ND	
48 Chlorobromomethane	128		6.071				ND	
50 Chloroform	83		6.229				ND	
$ 51 Dibromofluoromethane (Surr)	113	6.448	6.448	0.000	94	344348	53.9	
52 1,1,1-Trichloroethane	97		6.454				ND	
54 Carbon tetrachloride	117		6.679				ND	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	6.910	6.904	0.006	79	81490	52.4	
58 Benzene	78		6.941				ND	
59 1,2-Dichloroethane	62		7.014				ND	
* 62 Fluorobenzene (IS)	96	7.355	7.354	0.001	99	1266040	50.0	
66 Trichloroethene	95		7.841				ND	
69 1,2-Dichloropropane	63		8.176				ND	
75 Dichlorobromomethane	83		8.529				ND	
78 cis-1,3-Dichloropropene	75		9.094				ND	
79 4-Methyl-2-pentanone (MIBK)	43		9.283				ND	7
$ 80 Toluene-d8 (Surr)	98	9.423	9.423	0.000	93	1178071	49.4	
81 Toluene	92	9.502	9.502	0.000	47	2176	0.1448	
82 trans-1,3-Dichloropropene	75		9.776				ND	
118 1,1,2-Trichloroethane	97		9.989				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
119 Tetrachloroethene	166		10.080				ND	
123 2-Hexanone	43		10.220				ND	
125 Chlorodibromomethane	129		10.378				ND	
127 Ethylene Dibromide	107		10.487				ND	
* 128 Chlorobenzene-d5 (IS)	117	10.932	10.938	-0.006	84	886392	50.0	
130 Chlorobenzene	112		10.962				ND	
131 1,1,1,2-Tetrachloroethane	131		11.047				ND	
132 Ethylbenzene	91		11.053				ND	7
134 m-Xylene & p-Xylene	106		11.175				ND	7
S 133 Xylenes, Total	106		11.245				ND	7
136 o-Xylene	106		11.510				ND	
137 Styrene	104		11.522				ND	7
138 Bromoform	173		11.674				ND	7
$ 142 4-Bromofluorobenzene (Surr)	95	11.954	11.954	0.000	93	414765	47.6	
143 1,1,2,2-Tetrachloroethane	83		12.063				ND	
* 160 1,4-Dichlorobenzene-d4	152	12.848	12.848	0.000	94	518445	50.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_HP04_ISSS_00003 Amount Added: 1.00 Units: uL Run Reagent

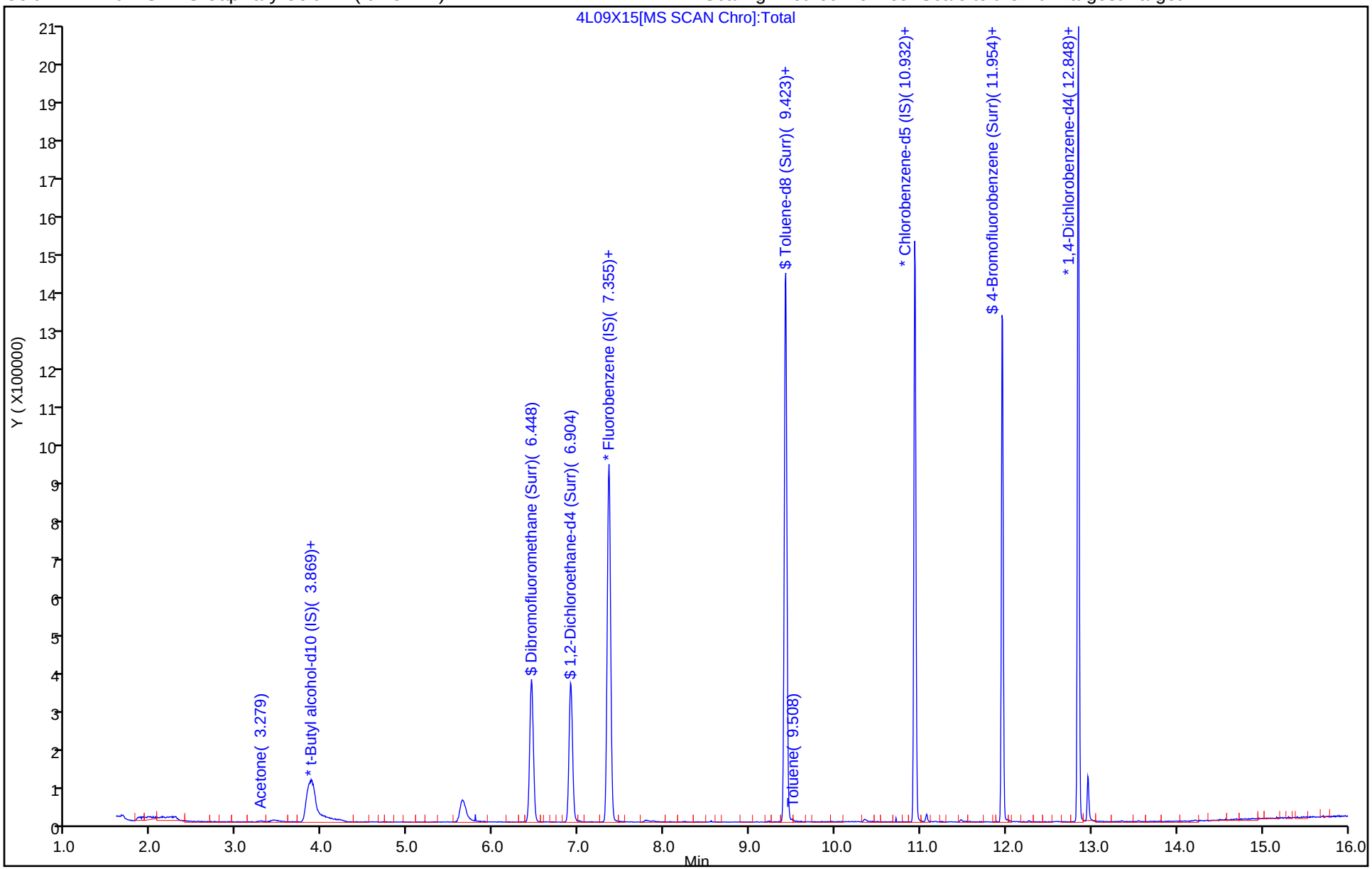
Report Date: 10-Jul-2024 09:46:07 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X15.D

Injection Date:	09-Jul-2024 15:15:30	Instrument ID:	23297	Operator ID:	CLM27445
Lims ID:	410-177784-A-5	Lab Sample ID:	410-177784-5	Worklist Smp#:	16
Client ID:	Trip Blank				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X15.D
Lims ID: 410-177784-A-5
Client ID: Trip Blank
Sample Type: Client
Inject. Date: 09-Jul-2024 15:15:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118805-016
Operator ID: CLM27445 Instrument ID: 23297

Method: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 10-Jul-2024 09:46:06 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

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

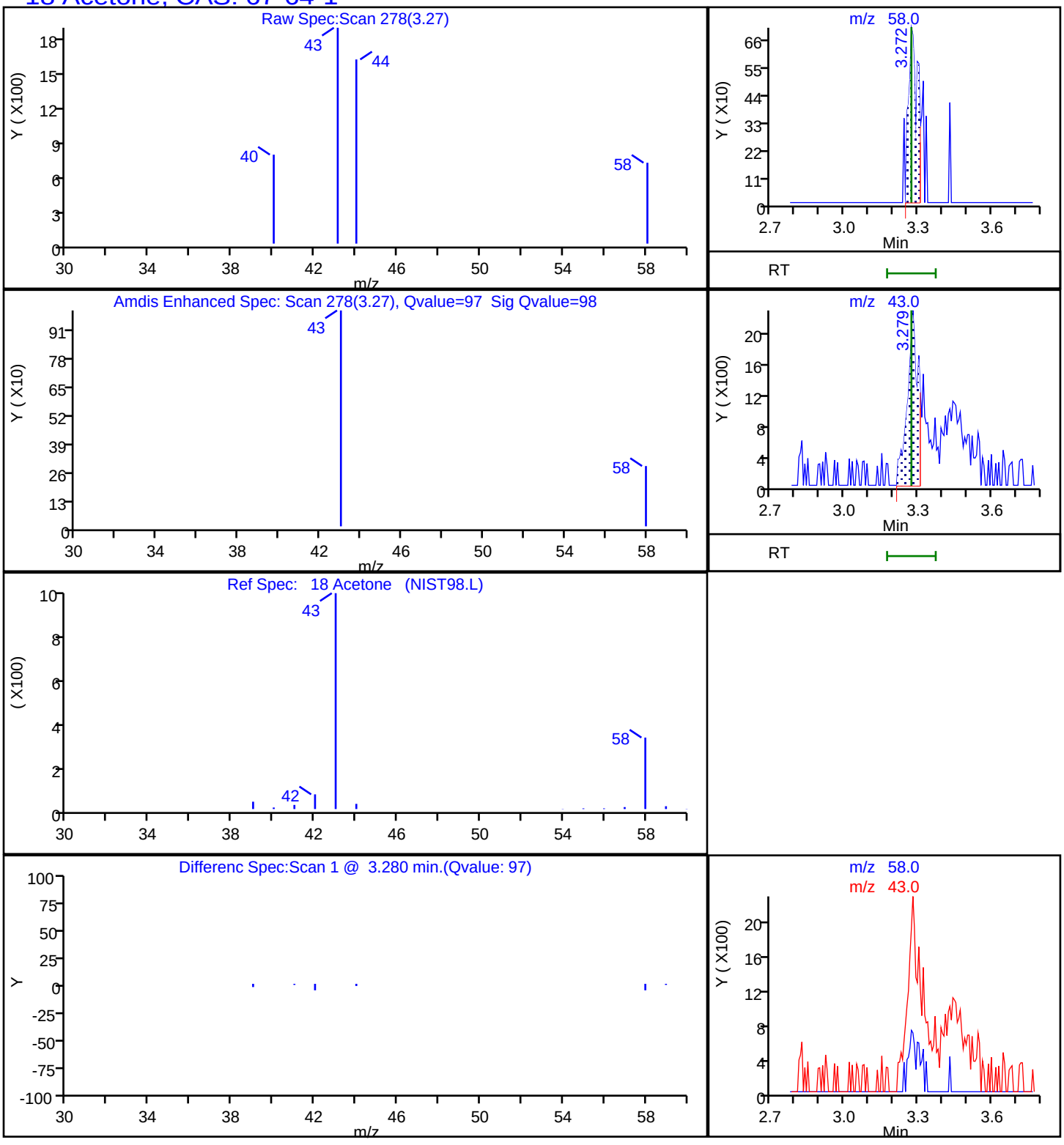
First Level Reviewer: FQ4L Date: 10-Jul-2024 09:46:06

Compound	Amount Added	Amount Recovered	% Rec.
$ 51 Dibromofluoromethane (Surr)	50.0	53.9	107.82
$ 57 1,2-Dichloroethane-d4 (Surr)	50.0	52.4	104.73
$ 80 Toluene-d8 (Surr)	50.0	49.4	98.78
$ 142 4-Bromofluorobenzene (Surr)	50.0	47.6	95.17

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X15.D				
Injection Date:	09-Jul-2024 15:15:30	Instrument ID:	23297		
Lims ID:	410-177784-A-5	Lab Sample ID:	410-177784-5		
Client ID:	Trip Blank				
Operator ID:	CLM27445	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

18 Acetone, CAS: 67-64-1



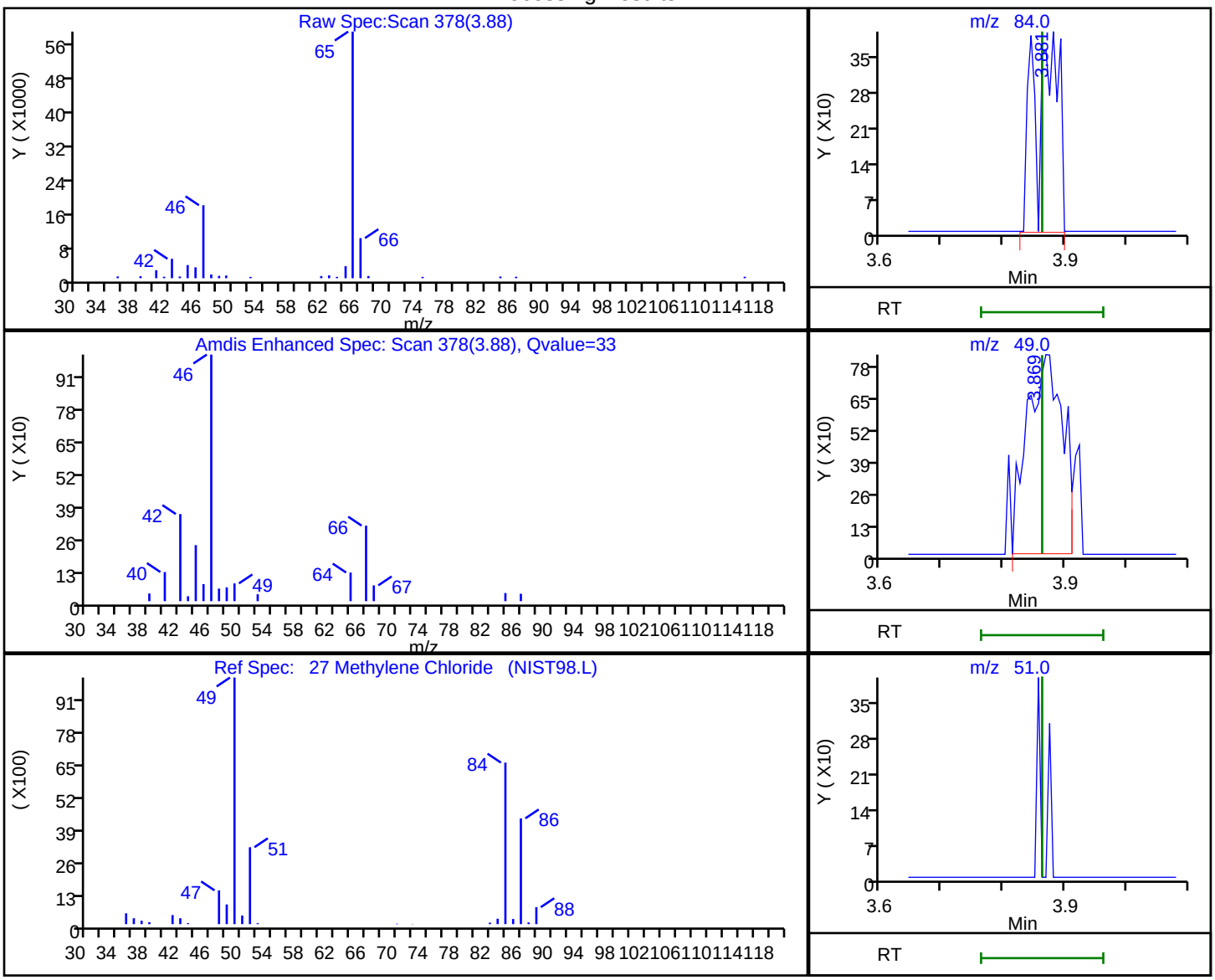
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X15.D				
Injection Date:	09-Jul-2024 15:15:30	Instrument ID:	23297		
Lims ID:	410-177784-A-5	Lab Sample ID:	410-177784-5		
Client ID:	Trip Blank				
Operator ID:	CLM27445	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

27 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
3.88	84.00	1086	0.149382
3.87	49.00	3334	
3.86	51.00	0	
3.86	86.00	0	

Reviewer: FQ4L, 10-Jul-2024 09:45:49 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1 Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/20/2024 21:37 Calibration End Date: 05/20/2024 23:30 Calibration ID: 61940

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-508211/8	4Y20X07.D
Level 2	IC 410-508211/7	4Y20X06.D
Level 3	IC 410-508211/6	4Y20X05.D
Level 4	IC 410-508211/5	4Y20X04.D
Level 5	IC 410-508211/4	4Y20X03.D
Level 6	IC 410-508211/3	4Y20X02.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	0.3071 0.2702	0.3039	0.2653	0.2501	0.2486	Ave		0.2742				9.4		20.0			
Chlorodifluoromethane	5.8285 4.8494	5.6005	4.7490	4.5875	4.5335	Ave		5.0247				11.0		20.0			
Freon 133a	0.4326 0.3750	0.4329	0.3886	0.3733	0.3597	Ave		0.3937				8.0		20.0			
Ethyl ether	0.2366 0.2253	0.2362	0.2168	0.2130	0.2164	Ave		0.2241				4.6		20.0			
Acetonitrile	1.2190 0.9090	1.0161	0.9117	0.8376	0.8720	Ave		0.9609				14.6		20.0			
Vinyl acetate	0.6583 0.6829	0.6513	0.6363	0.6186	0.6671	Ave		0.6524				3.5		20.0			
Ethyl acetate	0.3883 0.4363	0.4260	0.4043	0.3965	0.4218	Ave		0.4122				4.5		20.0			
Isopropyl acetate	0.7501 0.7404	0.7707	0.7164	0.6990	0.7256	Ave		0.7337				3.5		20.0			
n-Propyl acetate	0.1611 0.1762	0.1662	0.1608	0.1593	0.1682	Ave		0.1653				3.8		20.0			
3,4-Dichloro-1-butene	0.4055 0.4295	0.4100	0.4005	0.3950	0.4098	Ave		0.4084				2.9		20.0			
Butyl acetate	0.8209 0.8074	0.8750	0.8245	0.7648	0.8104	Ave		0.8172				4.3		20.0			
cis-1,4-Dichloro-2-butene	0.2044 0.2264	0.2223	0.2101	0.2048	0.2206	Ave		0.2148				4.4		20.0			
Pentachloroethane	0.3772 0.4807	0.3664	0.4257	0.4321	0.4485	Ave		0.4218				10.3		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.: 410-177784-1 | Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 | GC Column: R-624SilMS ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/20/2024 21:37 | Calibration End Date: 05/20/2024 23:30 | Calibration ID: 61940

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-508211/8	4Y20X07.D
Level 2	IC 410-508211/7	4Y20X06.D
Level 3	IC 410-508211/6	4Y20X05.D
Level 4	IC 410-508211/5	4Y20X04.D
Level 5	IC 410-508211/4	4Y20X03.D
Level 6	IC 410-508211/3	4Y20X02.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	30021 2026761	77465	133485	322901	630677	4.00 300	10.0	20.0	50.0	100
Chlorodifluoromethane	TBAd10	Ave	53296 3248645	131239	224438	558118	1067947	4.00 300	10.0	20.0	50.0	100
Freon 133a	FB	Ave	42287 2812603	110352	195555	481879	912448	4.00 300	10.0	20.0	50.0	100
Ethyl ether	FB	Ave	23130 1689481	60212	109098	274982	549029	4.00 300	10.00	20.0	50.0	100.0
Acetonitrile	TBAd10	Ave	55732 3044884	119047	215435	509496	1027143	20.0 1500	50.0	100	250	500
Vinyl acetate	FB	Ave	64349 5121400	166027	320181	798452	1692219	4.00 300	10.0	20.0	50.0	100
Ethyl acetate	FB	Ave	37959 3271848	108588	203460	511786	1069927	4.00 300	10.0	20.0	50.0	100
Isopropyl acetate	FB	Ave	73324 5553161	196452	360507	902348	1840854	4.00 300	10.0	20.0	50.0	100
n-Propyl acetate	FB	Ave	15751 1321445	42366	80915	205653	426756	4.00 300	10.0	20.0	50.0	100
3,4-Dichloro-1-butene	CBZd5	Ave	29466 2423108	74739	144689	375094	769439	4.00 300	10.0	20.0	50.0	100
Butyl acetate	CBZd5	Ave	59618 4552789	159418	297698	725845	1520960	4.00 300	10.0	20.0	50.0	100
cis-1,4-Dichloro-2-butene	CBZd5	Ave	14853 1277368	40506	75898	194470	414198	4.00 300	10.0	20.0	50.0	100
Pentachloroethane	DCBd4	Ave	16684 1616829	40892	91508	240272	506087	4.00 300	10.0	20.0	50.0	100

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.: 410-177784-1 | Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 | GC Column: R-624SilMS 3 ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/20/2024 21:37 | Calibration End Date: 05/20/2024 23:30 | Calibration ID: 61940

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-508211/8	4Y20X07.D
Level 2	IC 410-508211/7	4Y20X06.D
Level 3	IC 410-508211/6	4Y20X05.D
Level 4	IC 410-508211/5	4Y20X04.D
Level 5	IC 410-508211/4	4Y20X03.D
Level 6	IC 410-508211/3	4Y20X02.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	12.0	10.8	-3.3	-8.8	-9.3	-1.4	50	30	30	30	30	30
Chlorodifluoromethane	16.0	11.5	-5.5	-8.7	-9.8	-3.5	50	30	30	30	30	30
Freon 133a	9.9	10.0	-1.3	-5.2	-8.6	-4.7	50	30	30	30	30	30
Ethyl ether	5.6	5.4	-3.2	-4.9	-3.4	0.5	50	30	30	30	30	30
Acetonitrile	26.9	5.7	-5.1	-12.8	-9.2	-5.4	50	30	30	30	30	30
Vinyl acetate	0.9	-0.2	-2.5	-5.2	2.2	4.7	50	30	30	30	30	30
Ethyl acetate	-5.8	3.3	-1.9	-3.8	2.3	5.8	50	30	30	30	30	30
Isopropyl acetate	2.2	5.0	-2.4	-4.7	-1.1	0.9	50	30	30	30	30	30
n-Propyl acetate	-2.5	0.5	-2.7	-3.6	1.8	6.6	50	30	30	30	30	30
3,4-Dichloro-1-butene	-0.7	0.4	-1.9	-3.3	0.3	5.2	50	30	30	30	30	30
Butyl acetate	0.5	7.1	0.9	-6.4	-0.8	-1.2	50	30	30	30	30	30
cis-1,4-Dichloro-2-butene	-4.8	3.5	-2.2	-4.6	2.7	5.4	50	30	30	30	30	30
Pentachloroethane	-10.6	-13.1	0.9	2.4	6.3	14.0	50	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X02.D
Lims ID: IC sm v300
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 20-May-2024 21:37:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0114468-003
Misc. Info.: IC 4
Operator ID: MEC29284 Instrument ID: 23297
Sublist: chrom-MSVoa_23297*sub71

Method: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 23-May-2024 08:34:28 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: UKAD Date: 21-May-2024 11:21:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.764	1.764	0.000	93	2026761	300.0	295.7	
3 Chlorodifluoromethane	51	1.806	1.800	0.006	97	3248645	300.0	289.5	
7 2-Chloro-1,1,1-Trifluoroethane	118	2.159	2.159	0.000	33	2812603	300.0	285.8	
14 Ethyl ether	59	2.962	2.962	0.000	92	1689481	300.0	301.6	
23 Acetonitrile	41	3.613	3.619	-0.006	99	3044884	1500.0	1419.0	M
* 28 t-Butyl alcohol-d10 (IS)	65	3.869	3.869	0.000	35	558261	250.0	250.0	
36 Vinyl acetate	43	4.897	4.897	0.000	97	5121400	300.0	314.0	
43 Ethyl acetate	43	5.791	5.785	0.006	99	3271848	300.0	317.5	
60 Isopropyl acetate	43	7.044	7.044	0.000	98	5553161	300.0	302.7	
* 62 Fluorobenzene (IS)	96	7.361	7.355	0.007	99	1249975	50.0	50.0	
71 n-Propyl acetate	61	8.365	8.358	0.007	98	1321445	300.0	319.8	
121 3,4-Dichloro-1-butene	75	10.202	10.196	0.006	94	2423108	300.2	315.7	
124 n-Butyl acetate	43	10.354	10.354	0.000	99	4552789	300.0	296.4	
* 128 Chlorobenzene-d5 (IS)	117	10.938	10.938	0.000	85	939834	50.0	50.0	
140 cis-1,4-Dichloro-2-butene	88	11.869	11.869	0.000	0	1277368	300.1	316.4	
154 Pentachloroethane	167	12.568	12.562	0.006	94	1616829	300.0	341.9	
* 160 1,4-Dichlorobenzene-d4	152	12.854	12.854	0.000	94	560621	50.0	50.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00036	Amount Added:	15.00	Units: uL
MSV_CCV_Penta_00049	Amount Added:	15.00	Units: uL
MSV_CCV_EE_00007	Amount Added:	15.00	Units: uL
MSV_V_SMFreon_00018	Amount Added:	7.50	Units: uL
MSV_CCV_LKB_00009	Amount Added:	15.00	Units: uL
MSV_HP04_ISO_00002	Amount Added:	1.00	Units: uL

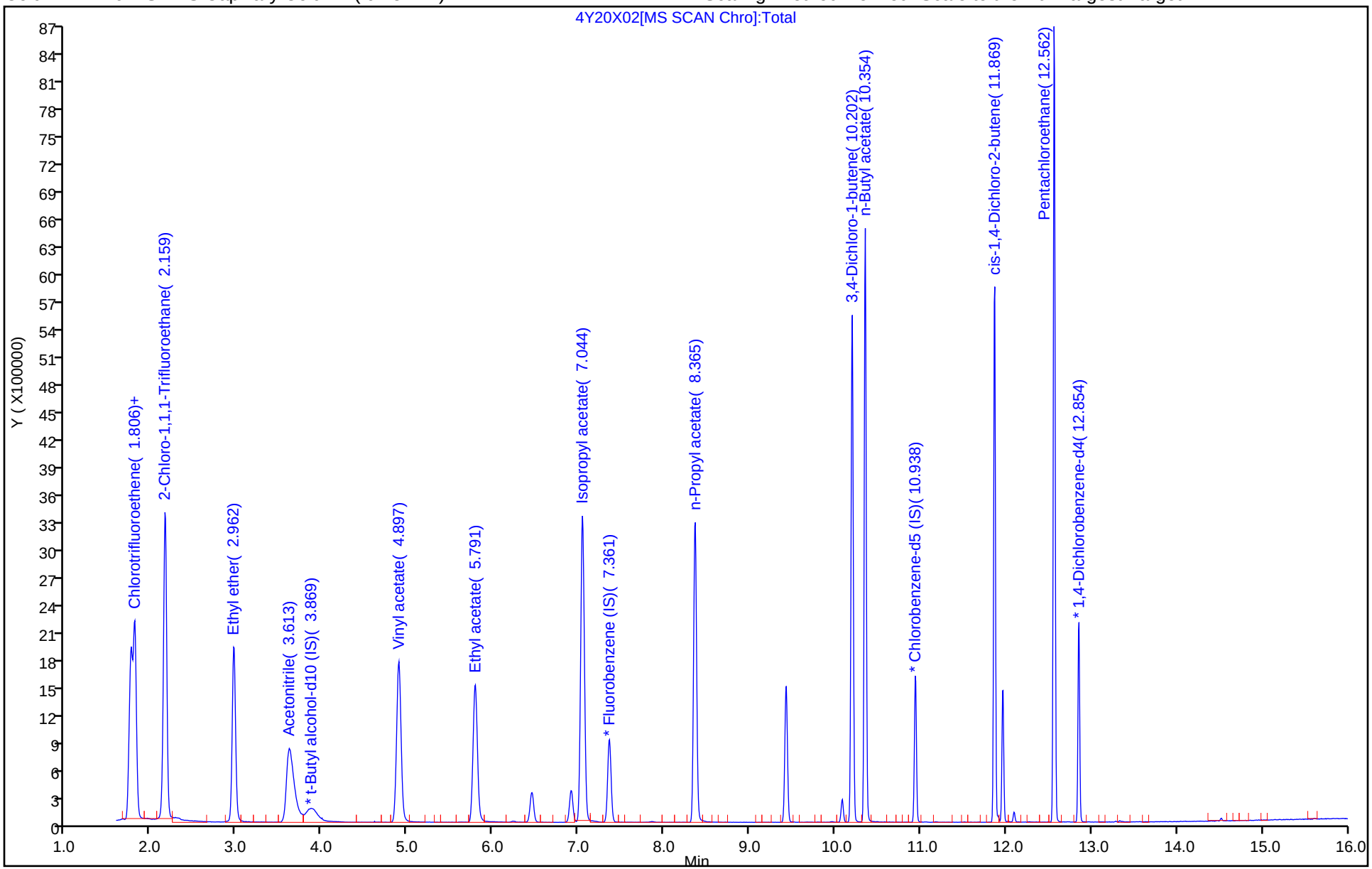
Report Date: 23-May-2024 08:34:29 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X02.D

Injection Date:	20-May-2024 21:37:30	Instrument ID:	23297	Operator ID:	MEC29284
Lims ID:	IC sm v300			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

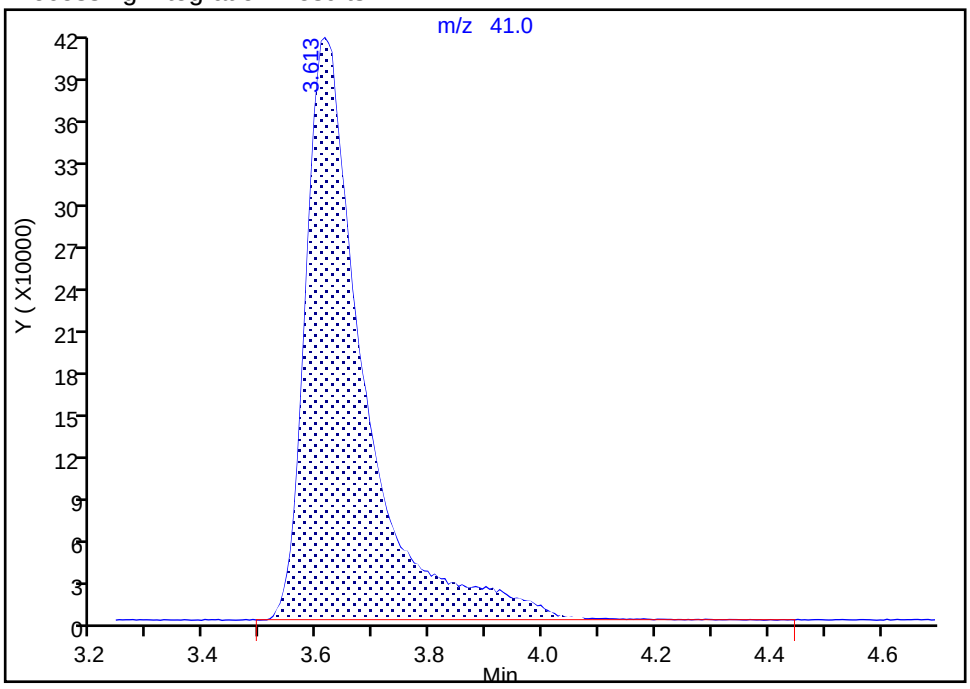
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X02.D
Injection Date: 20-May-2024 21:37:30 Instrument ID: 23297
Lims ID: IC sm v300
Client ID:
Operator ID: MEC29284 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

23 Acetonitrile, CAS: 75-05-8

Signal: 1

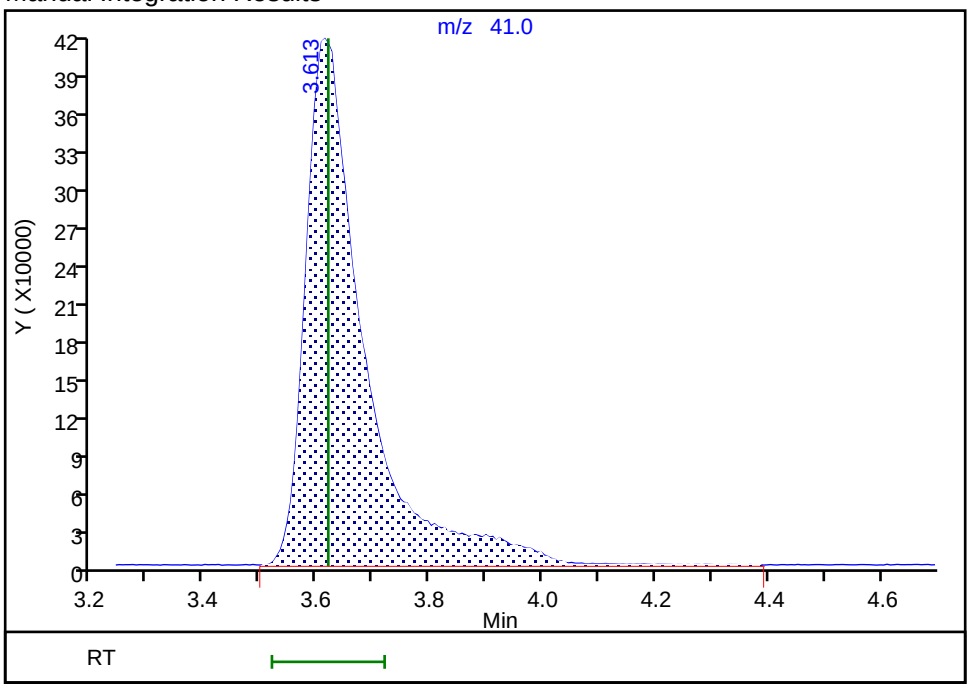
Processing Integration Results

RT: 3.61
Area: 3032861
Amount: 1411.0252
Amount Units: ug/l



Manual Integration Results

RT: 3.61
Area: 3044884
Amount: 1419.0416
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 16:52:28 -04:00:00 (UTC)
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X03.D
Lims ID: IC sm v100
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 20-May-2024 22:00:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0114468-007
Misc. Info.: IC 100
Operator ID: MEC29284 Instrument ID: 23297
Sublist: chrom-MSVoa_23297*sub71

Method: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 23-May-2024 08:34:30 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: UKAD Date: 21-May-2024 11:22:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.751	1.764	-0.013	93	630677	100.0	90.7	
3 Chlorodifluoromethane	51	1.800	1.800	0.000	97	1067947	100.0	90.2	
7 2-Chloro-1,1,1-Trifluoroethane	118	2.153	2.159	-0.006	33	912448	100.0	91.4	
14 Ethyl ether	59	2.956	2.962	-0.006	92	549029	100.0	96.6	
23 Acetonitrile	41	3.607	3.619	-0.012	99	1027143	500.0	453.8	M
* 28 t-Butyl alcohol-d10 (IS)	65	3.875	3.869	0.006	35	588925	250.0	250.0	
36 Vinyl acetate	43	4.891	4.897	-0.006	97	1692219	100.0	102.2	
43 Ethyl acetate	43	5.785	5.785	0.000	99	1069927	100.0	102.3	
60 Isopropyl acetate	43	7.044	7.044	0.000	98	1840854	100.0	98.9	
* 62 Fluorobenzene (IS)	96	7.354	7.355	0.000	99	1268426	50.0	50.0	
71 n-Propyl acetate	61	8.358	8.358	0.000	99	426756	100.0	101.8	
121 3,4-Dichloro-1-butene	75	10.202	10.196	0.006	94	769439	100.1	100.4	
124 n-Butyl acetate	43	10.354	10.354	0.000	99	1520960	100.0	99.2	
* 128 Chlorobenzene-d5 (IS)	117	10.938	10.938	0.000	85	938389	50.0	50.0	
140 cis-1,4-Dichloro-2-butene	88	11.868	11.869	-0.001	0	414198	100.0	102.8	
154 Pentachloroethane	167	12.568	12.562	0.006	94	506087	100.0	106.3	
* 160 1,4-Dichlorobenzene-d4	152	12.854	12.854	0.000	94	564201	50.0	50.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00036	Amount Added:	5.00	Units: uL
MSV_CCV_Penta_00049	Amount Added:	5.00	Units: uL
MSV_CCV_EE_00007	Amount Added:	5.00	Units: uL
MSV_V_SMFreon_00018	Amount Added:	2.50	Units: uL
MSV_CCV_LKB_00009	Amount Added:	5.00	Units: uL
MSV_HP04_ISO_00002	Amount Added:	1.00	Units: uL

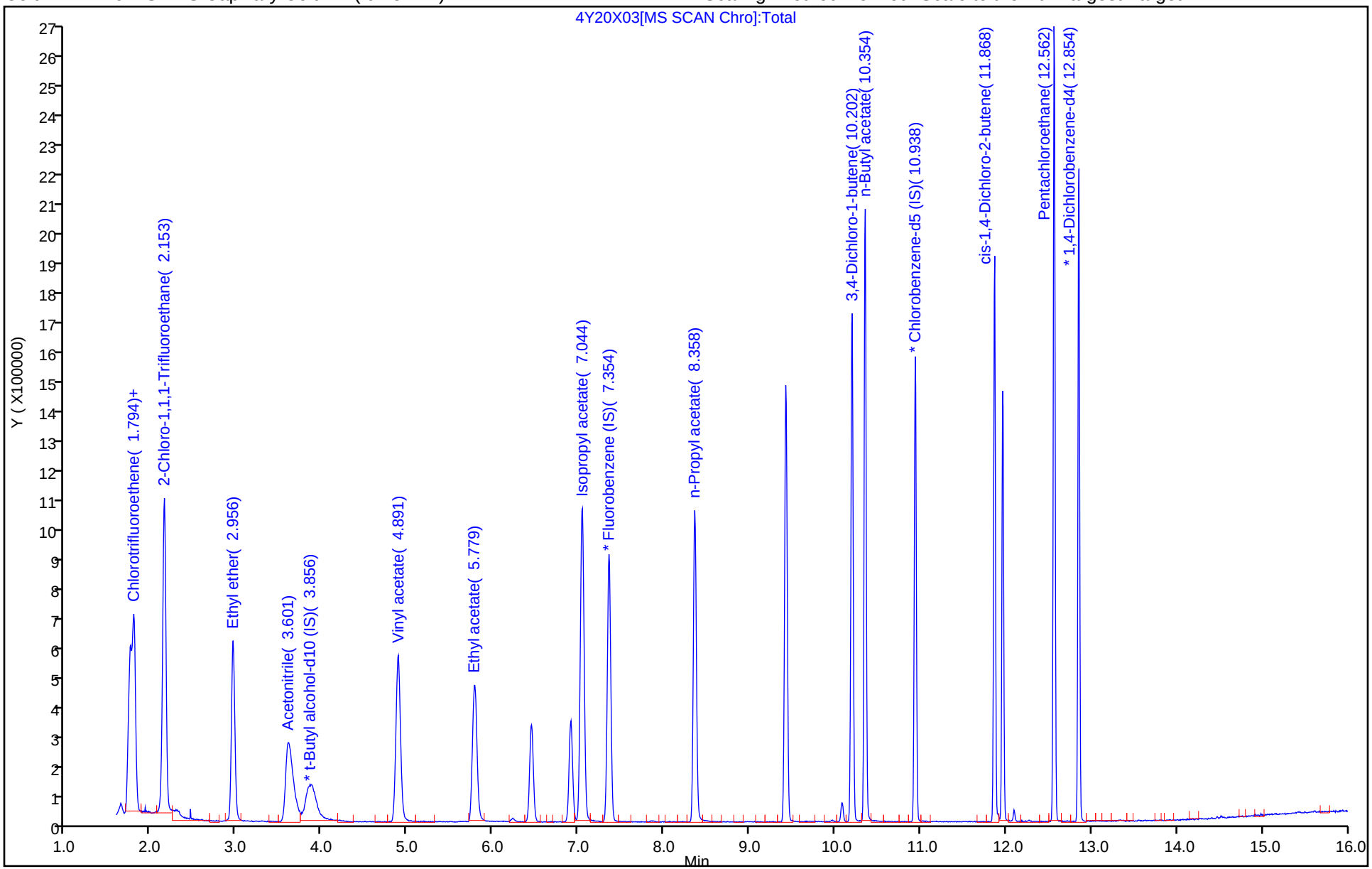
Report Date: 23-May-2024 08:34:30 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X03.D

Injection Date:	20-May-2024 22:00:30	Instrument ID:	23297	Operator ID:	MEC29284
Lims ID:	IC sm v100			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

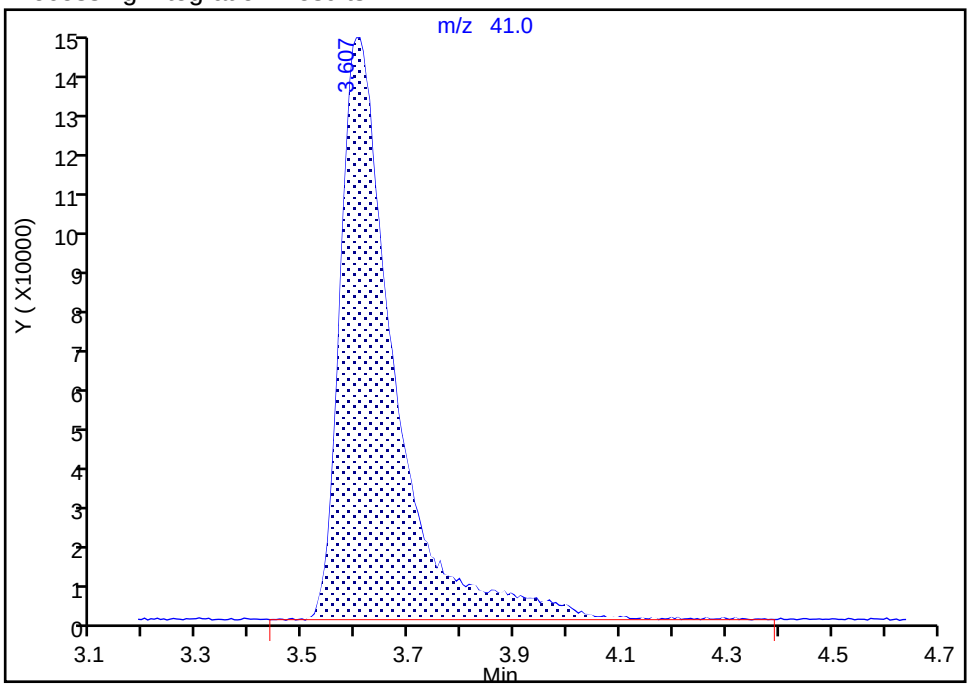
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X03.D
Injection Date: 20-May-2024 22:00:30 Instrument ID: 23297
Lims ID: IC sm v100
Client ID:
Operator ID: MEC29284 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

23 Acetonitrile, CAS: 75-05-8

Signal: 1

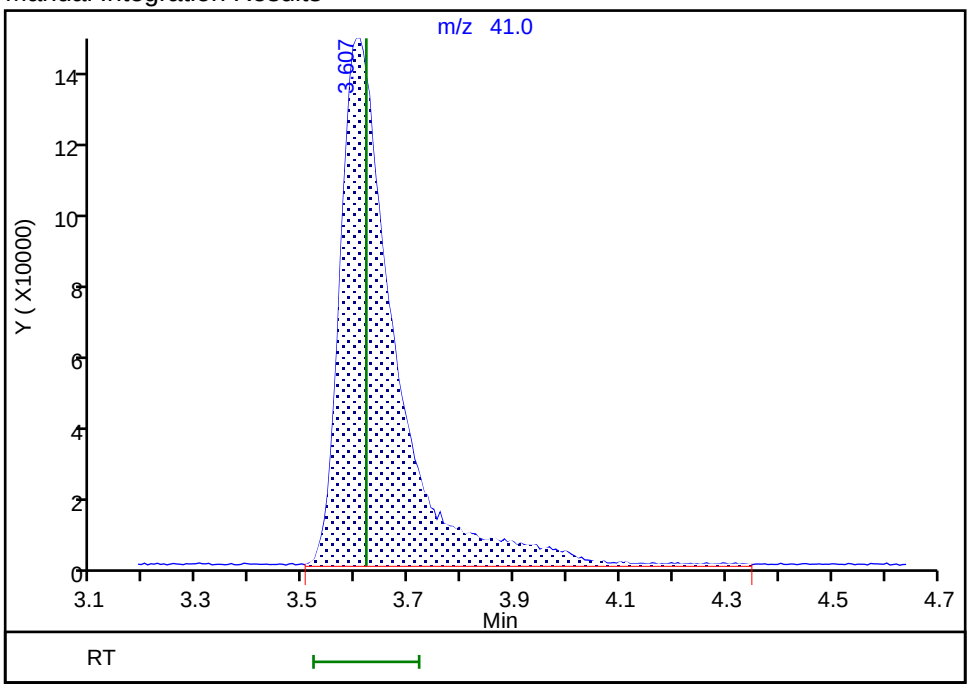
Processing Integration Results

RT: 3.61
Area: 1019464
Amount: 449.3261
Amount Units: ug/l



Manual Integration Results

RT: 3.61
Area: 1027143
Amount: 453.7667
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 16:52:54 -04:00:00 (UTC)
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X04.D
Lims ID: IC sm v50
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 20-May-2024 22:22:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0114468-006
Misc. Info.: IC 50
Operator ID: MEC29284 Instrument ID: 23297
Sublist: chrom-MSVoa_23297*sub71

Method: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 23-May-2024 08:34:31 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: UKAD Date: 21-May-2024 11:20:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.758	1.764	-0.006	92	322901	50.0	45.6	
3 Chlorodifluoromethane	51	1.800	1.800	0.000	97	558118	50.0	45.6	
7 2-Chloro-1,1,1-Trifluoroethane	118	2.159	2.159	0.000	41	481879	50.0	47.4	
14 Ethyl ether	59	2.962	2.962	0.000	92	274982	50.0	47.5	
23 Acetonitrile	41	3.613	3.619	-0.006	99	509496	250.0	217.9	M
* 28 t-Butyl alcohol-d10 (IS)	65	3.875	3.869	0.006	36	608301	250.0	250.0	
36 Vinyl acetate	43	4.891	4.897	-0.006	97	798452	50.0	47.4	
43 Ethyl acetate	43	5.785	5.785	0.000	99	511786	50.0	48.1	
60 Isopropyl acetate	43	7.044	7.044	0.000	98	902348	50.0	47.6	
* 62 Fluorobenzene (IS)	96	7.355	7.355	0.001	99	1290840	50.0	50.0	
71 n-Propyl acetate	61	8.364	8.358	0.006	99	205653	50.0	48.2	
121 3,4-Dichloro-1-butene	75	10.202	10.196	0.006	94	375094	50.0	48.4	
124 n-Butyl acetate	43	10.354	10.354	0.000	99	725845	50.0	46.8	
* 128 Chlorobenzene-d5 (IS)	117	10.938	10.938	0.000	85	949075	50.0	50.0	
140 cis-1,4-Dichloro-2-butene	88	11.869	11.869	0.000	0	194470	50.0	47.7	
154 Pentachloroethane	167	12.568	12.562	0.006	93	240272	50.0	51.2	
* 160 1,4-Dichlorobenzene-d4	152	12.854	12.854	0.000	94	556082	50.0	50.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00036	Amount Added:	5.00	Units: uL
MSV_CCV_Penta_00049	Amount Added:	5.00	Units: uL
MSV_CCV_EE_00007	Amount Added:	5.00	Units: uL
MSV_V_SMFreon_00018	Amount Added:	2.50	Units: uL
MSV_CCV_LKB_00009	Amount Added:	5.00	Units: uL
MSV_HP04_ISO_00002	Amount Added:	1.00	Units: uL

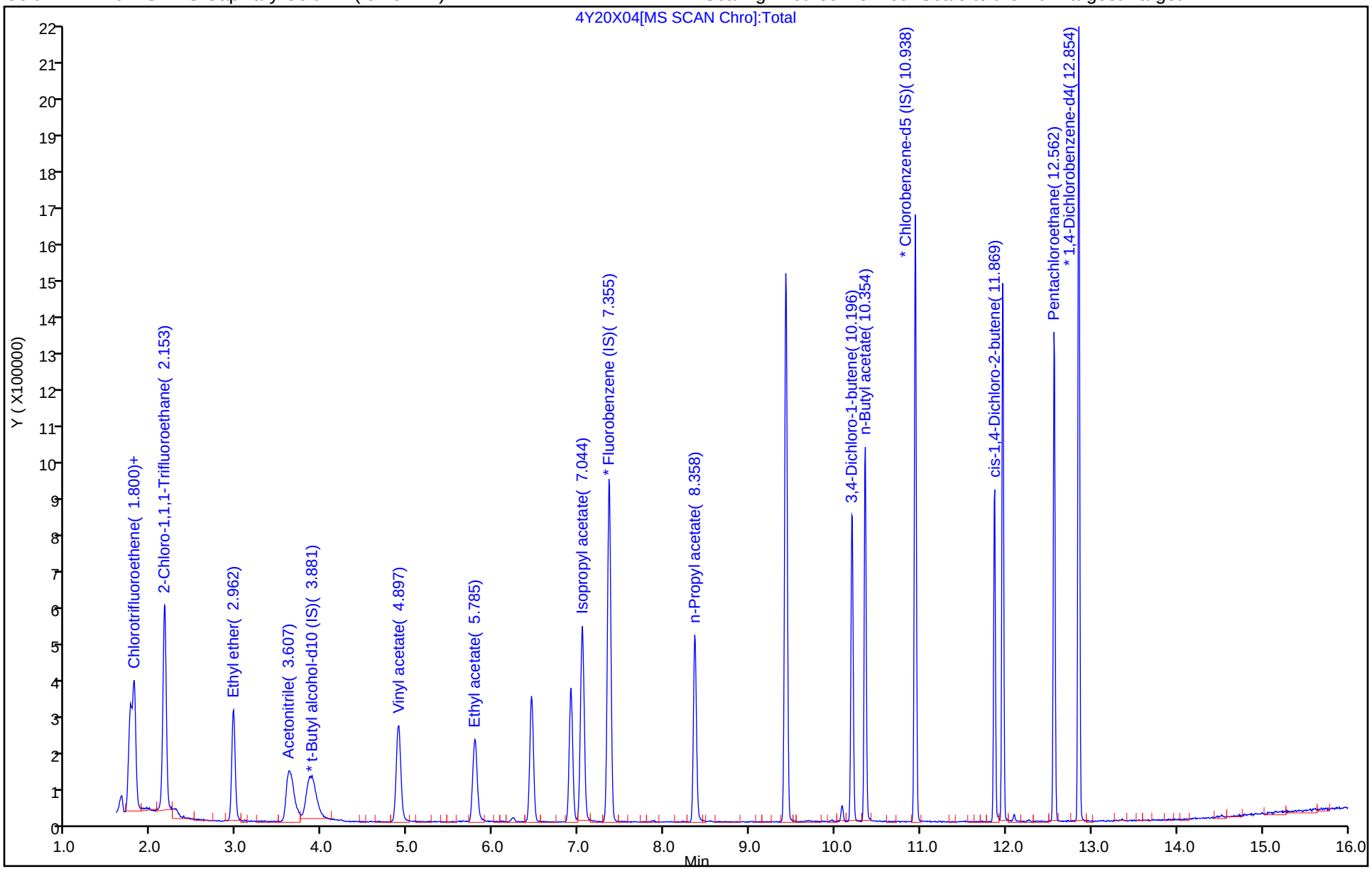
Report Date: 23-May-2024 08:34:32 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X04.D

Injection Date:	20-May-2024 22:22:30	Instrument ID:	23297	Operator ID:	MEC29284
Lims ID:	IC sm v50			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

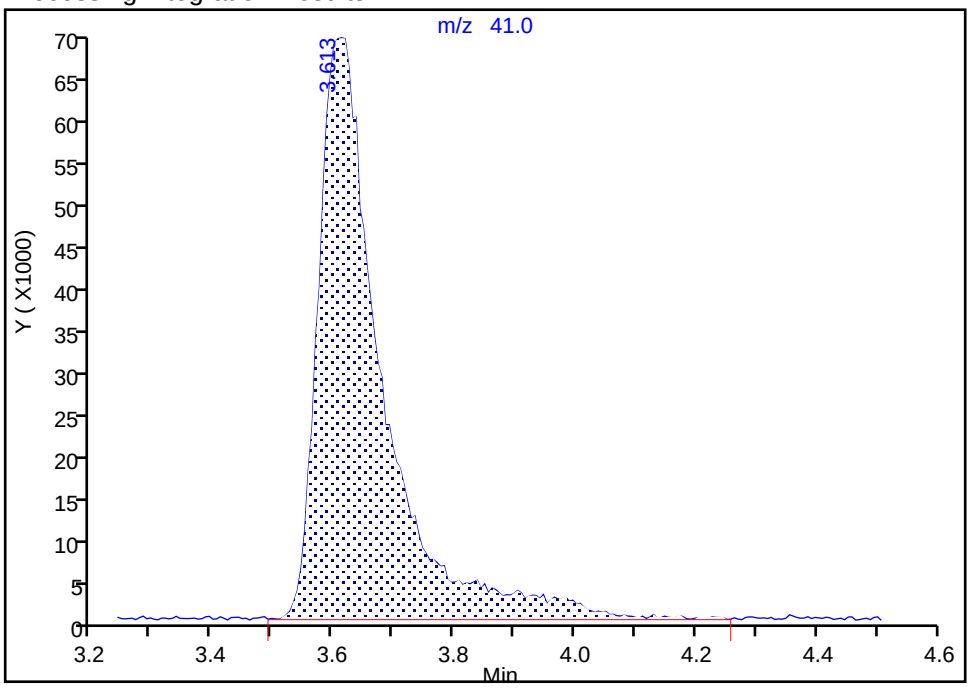
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X04.D
Injection Date: 20-May-2024 22:22:30 Instrument ID: 23297
Lims ID: IC sm v50
Client ID:
Operator ID: MEC29284 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

23 Acetonitrile, CAS: 75-05-8

Signal: 1

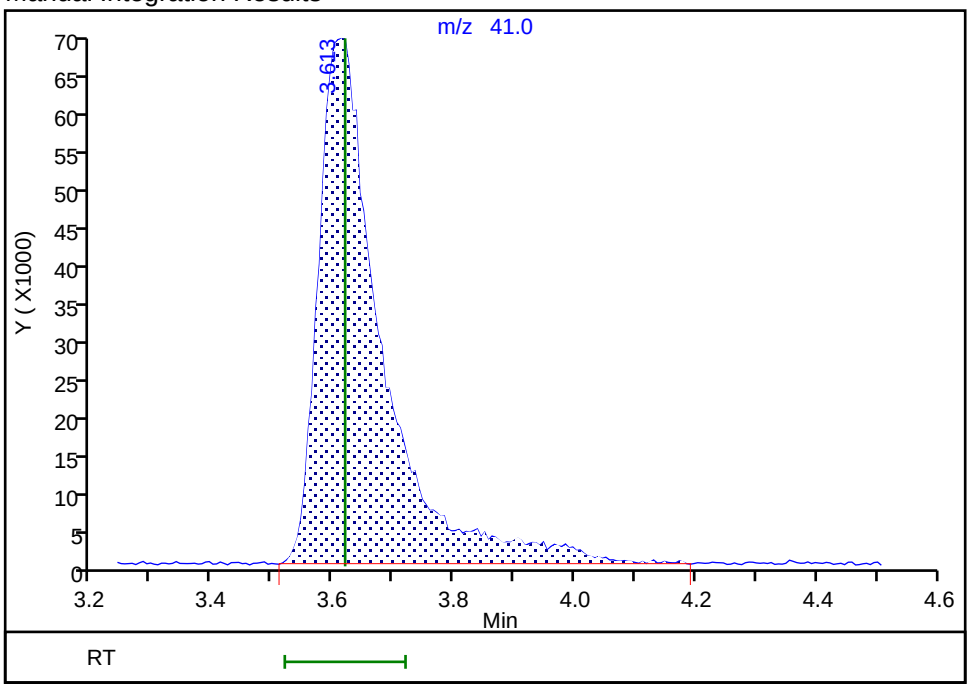
Processing Integration Results

RT: 3.61
Area: 509200
Amount: 227.4176
Amount Units: ug/l



Manual Integration Results

RT: 3.61
Area: 509496
Amount: 217.9134
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 16:50:33 -04:00:00 (UTC)
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X05.D
Lims ID: IC sm v20
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 20-May-2024 22:45:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0114468-005
Misc. Info.: IC 20
Operator ID: MEC29284 Instrument ID: 23297
Sublist: chrom-MSVoa_23297*sub71

Method: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 23-May-2024 08:34:35 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: UKAD Date: 21-May-2024 11:21:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.764	1.764	0.000	93	133485	20.0	19.3	
3 Chlorodifluoromethane	51	1.800	1.800	0.000	97	224438	20.0	18.9	
7 2-Chloro-1,1,1-Trifluoroethane	118	2.159	2.159	0.000	38	195555	20.0	19.7	
14 Ethyl ether	59	2.962	2.962	0.000	91	109098	20.0	19.4	
23 Acetonitrile	41	3.619	3.619	0.000	99	215435	100.0	94.9	M
* 28 t-Butyl alcohol-d10 (IS)	65	3.869	3.869	0.000	36	590745	250.0	250.0	
36 Vinyl acetate	43	4.897	4.897	0.000	97	320181	20.0	19.5	
43 Ethyl acetate	43	5.785	5.785	0.000	99	203460	20.0	19.6	
60 Isopropyl acetate	43	7.044	7.044	0.000	98	360507	20.0	19.5	
* 62 Fluorobenzene (IS)	96	7.355	7.355	0.000	99	1258050	50.0	50.0	
71 n-Propyl acetate	61	8.358	8.358	0.000	99	80915	20.0	19.5	
121 3,4-Dichloro-1-butene	75	10.196	10.196	0.000	93	144689	20.0	19.6	
124 n-Butyl acetate	43	10.354	10.354	0.000	99	297698	20.0	20.2	
* 128 Chlorobenzene-d5 (IS)	117	10.938	10.938	0.000	85	902646	50.0	50.0	
140 cis-1,4-Dichloro-2-butene	88	11.869	11.869	0.000	0	75898	20.0	19.6	
154 Pentachloroethane	167	12.562	12.562	0.000	92	91508	20.0	20.2	
* 160 1,4-Dichlorobenzene-d4	152	12.854	12.854	0.000	94	537358	50.0	50.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00036	Amount Added:	4.00	Units: uL
MSV_CCV_Penta_00049	Amount Added:	4.00	Units: uL
MSV_CCV_EE_00007	Amount Added:	4.00	Units: uL
MSV_V_SMFreon_00018	Amount Added:	2.00	Units: uL
MSV_CCV_LKB_00009	Amount Added:	4.00	Units: uL
MSV_HP04_ISO_00002	Amount Added:	1.00	Units: uL

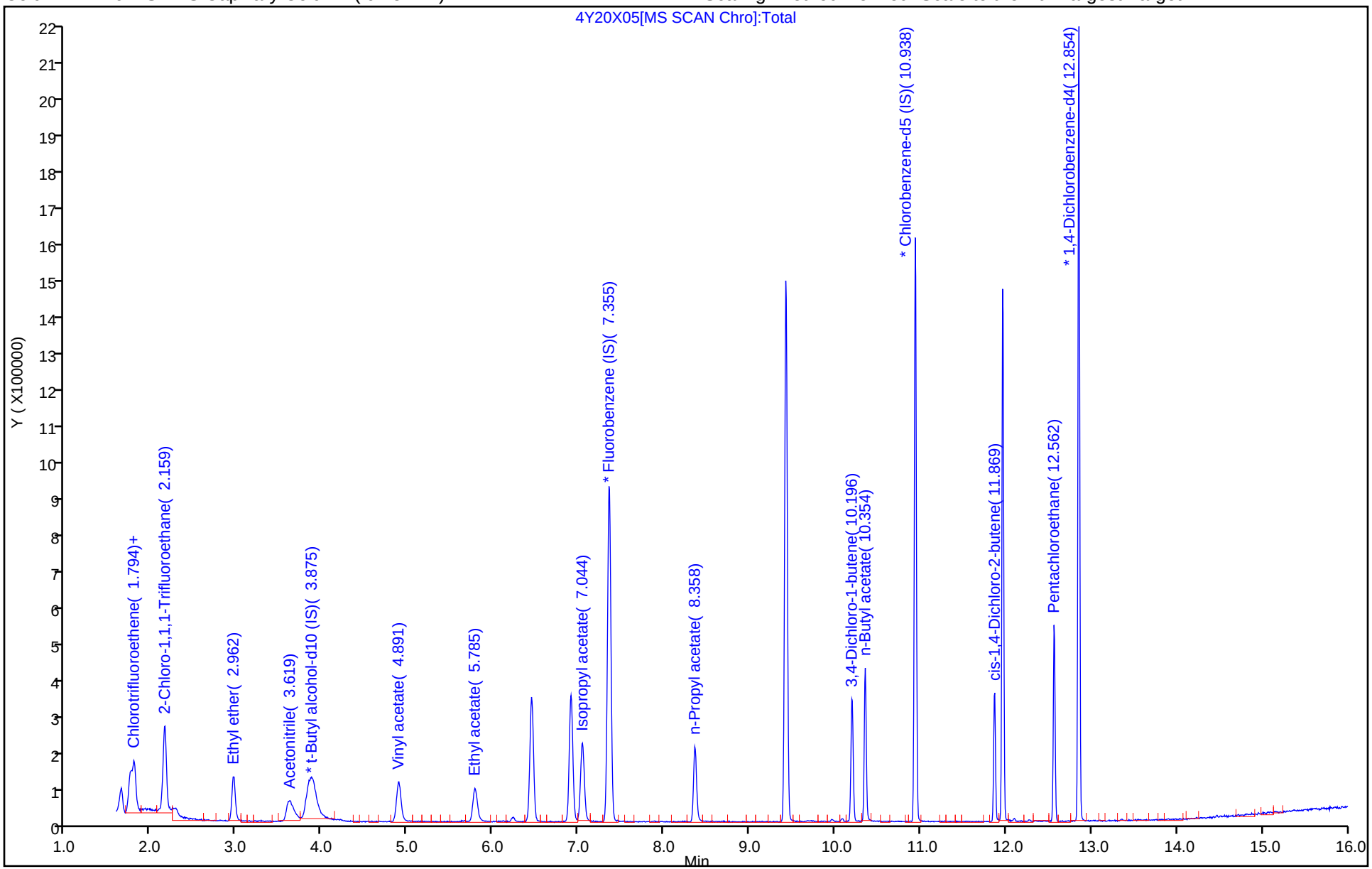
Report Date: 23-May-2024 08:34:35 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X05.D

Injection Date:	20-May-2024 22:45:30	Instrument ID:	23297	Operator ID:	MEC29284
Lims ID:	IC sm v20			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

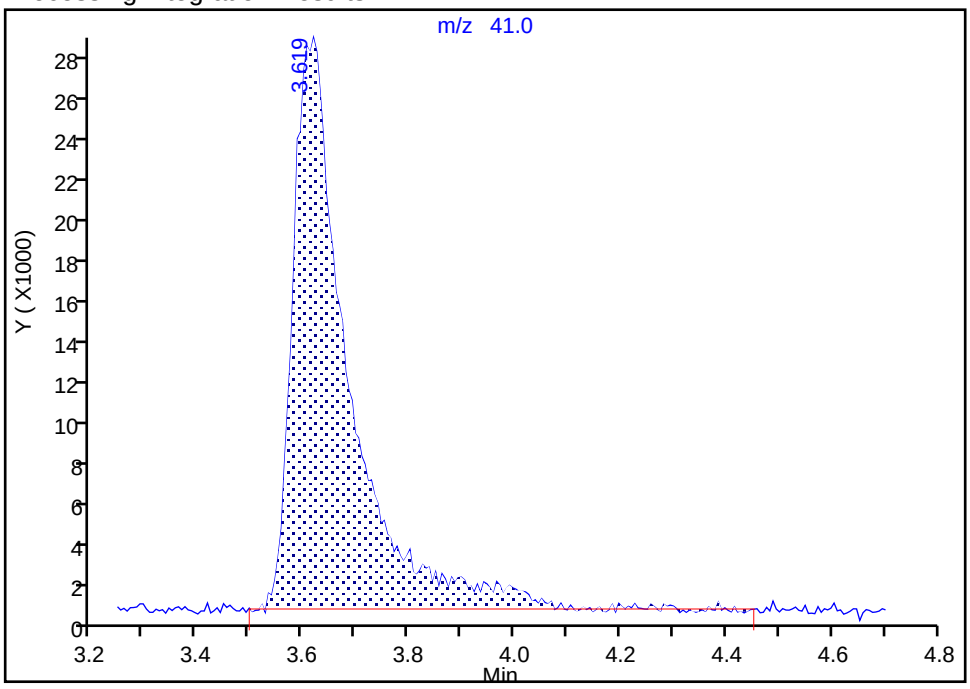
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X05.D
Injection Date: 20-May-2024 22:45:30 Instrument ID: 23297
Lims ID: IC sm v20
Client ID:
Operator ID: MEC29284 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

23 Acetonitrile, CAS: 75-05-8

Signal: 1

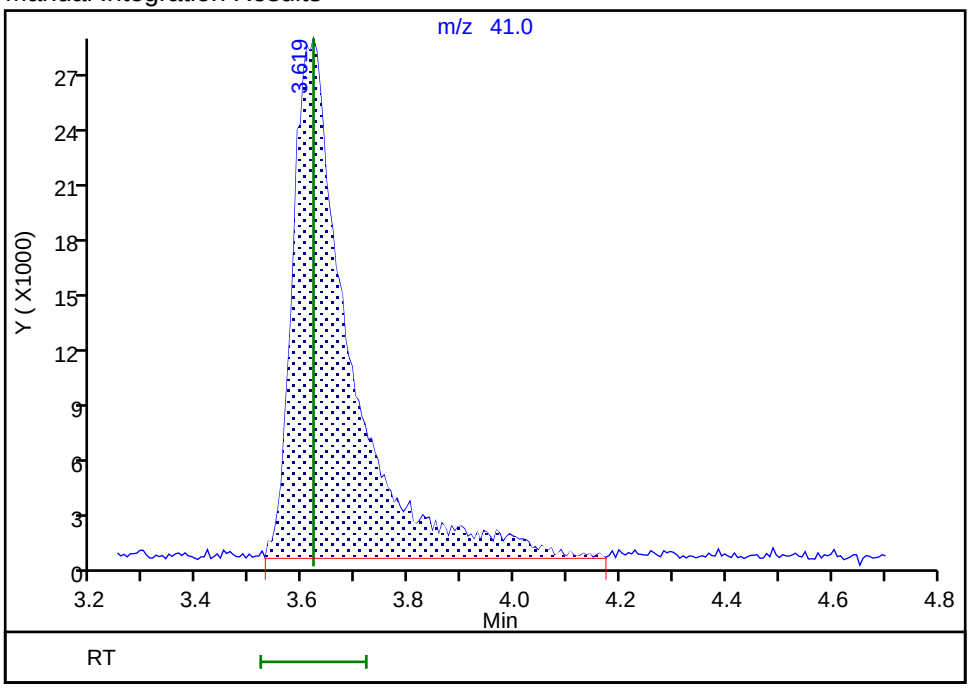
Processing Integration Results

RT: 3.62
Area: 207737
Amount: 95.527794
Amount Units: ug/l



Manual Integration Results

RT: 3.62
Area: 215435
Amount: 94.880701
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 16:51:11 -04:00:00 (UTC)
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X06.D
Lims ID: IC sm v10
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 20-May-2024 23:07:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0114468-004
Misc. Info.: IC 10
Operator ID: MEC29284 Instrument ID: 23297
Sublist: chrom-MSVoa_23297*sub71

Method: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 23-May-2024 08:34:36 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: UKAD Date: 21-May-2024 11:21:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.764	1.764	0.000	92	77465	10.0	11.1	
3 Chlorodifluoromethane	51	1.806	1.800	0.006	97	131239	10.0	11.1	
7 2-Chloro-1,1,1-Trifluoroethane	118	2.159	2.159	0.000	43	110352	10.0	11.0	
14 Ethyl ether	59	2.962	2.962	0.000	92	60212	10.0	10.5	
23 Acetonitrile	41	3.619	3.619	0.000	99	119047	50.0	52.9	
* 28 t-Butyl alcohol-d10 (IS)	65	3.881	3.869	0.012	36	585831	250.0	250.0	
36 Vinyl acetate	43	4.897	4.897	0.000	97	166027	10.0	9.98	
43 Ethyl acetate	43	5.791	5.785	0.006	98	108588	10.0	10.3	
60 Isopropyl acetate	43	7.050	7.044	0.006	98	196452	10.0	10.5	
* 62 Fluorobenzene (IS)	96	7.361	7.355	0.006	99	1274531	50.0	50.0	
71 n-Propyl acetate	61	8.371	8.358	0.012	99	42366	10.0	10.1	
121 3,4-Dichloro-1-butene	75	10.196	10.196	0.000	93	74739	10.0	10.0	
124 n-Butyl acetate	43	10.354	10.354	0.000	99	159418	10.0	10.7	
* 128 Chlorobenzene-d5 (IS)	117	10.938	10.938	0.000	85	910922	50.0	50.0	
140 cis-1,4-Dichloro-2-butene	88	11.869	11.869	0.000	0	40506	10.0	10.4	
154 Pentachloroethane	167	12.568	12.562	0.006	92	40892	10.0	8.69	
* 160 1,4-Dichlorobenzene-d4	152	12.854	12.854	0.000	94	557954	50.0	50.0	

QC Flag Legend
Processing Flags

Reagents:

MSV_CCV_V5ACE_00036	Amount Added:	2.00	Units: uL
MSV_CCV_Penta_00049	Amount Added:	2.00	Units: uL
MSV_CCV_EE_00007	Amount Added:	2.00	Units: uL
MSV_V_SMFreon_00018	Amount Added:	1.00	Units: uL
MSV_CCV_LKB_00009	Amount Added:	2.00	Units: uL
MSV_HP04_ISO_00002	Amount Added:	1.00	Units: uL

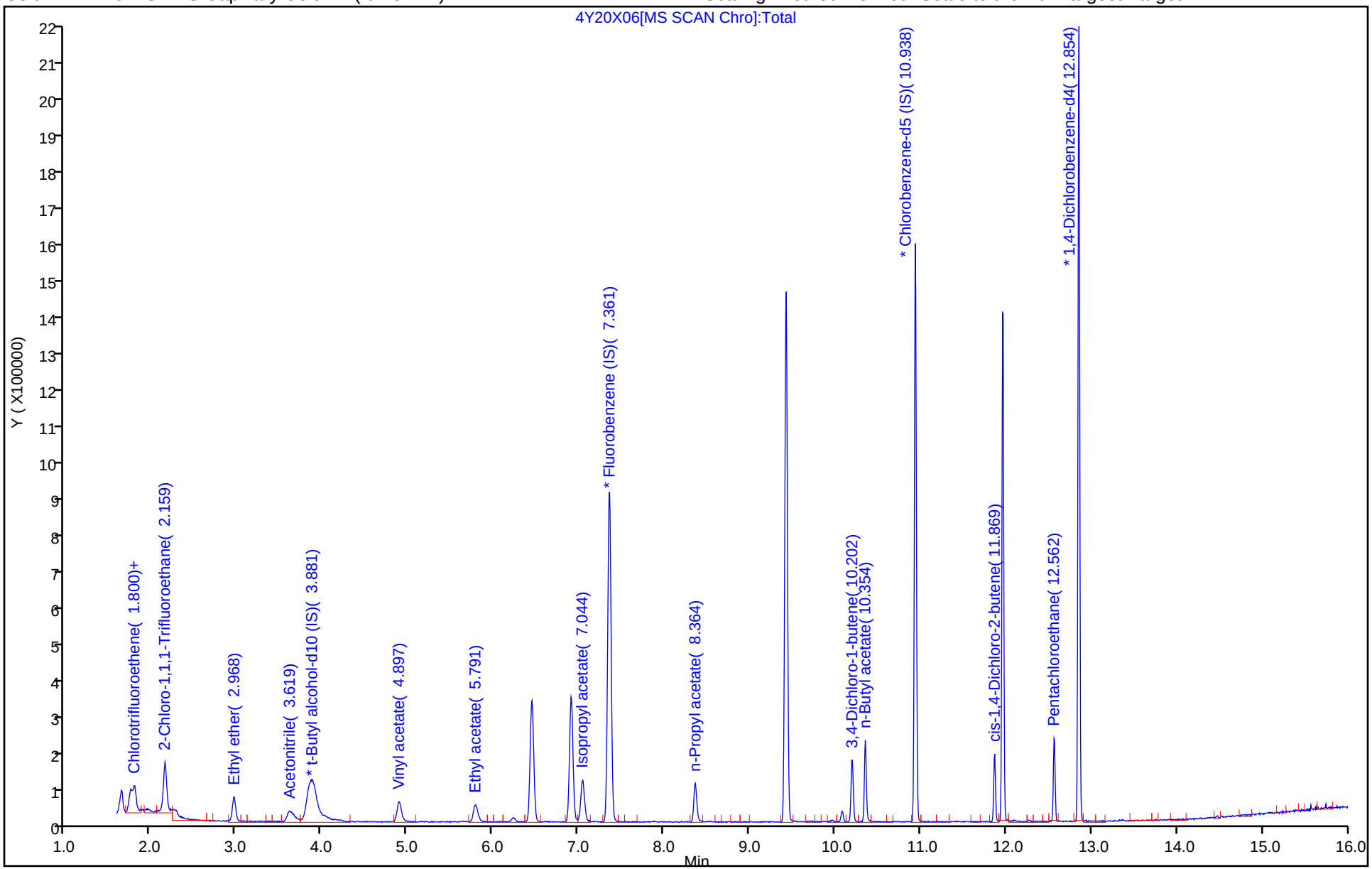
Report Date: 23-May-2024 08:34:37 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X06.D

Injection Date:	20-May-2024 23:07:30	Instrument ID:	23297	Operator ID:	MEC29284
Lims ID:	IC sm v10			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X07.D
Lims ID: IC sm v4
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 20-May-2024 23:30:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0114468-003
Misc. Info.: IC 4
Operator ID: MEC29284 Instrument ID: 23297
Sublist: chrom-MSVoa_23297*sub71

Method: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 23-May-2024 08:34:38 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: UKAD Date: 21-May-2024 11:21:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.751	1.764	-0.013	96	30021	4.00	4.48	
3 Chlorodifluoromethane	51	1.800	1.800	0.000	97	53296	4.00	4.64	
7 2-Chloro-1,1,1-Trifluoroethane	118	2.165	2.159	0.006	32	42287	4.00	4.40	
14 Ethyl ether	59	2.968	2.962	0.006	91	23130	4.00	4.22	
23 Acetonitrile	41	3.619	3.619	0.000	100	55732	20.0	25.4	M
* 28 t-Butyl alcohol-d10 (IS)	65	3.875	3.869	0.006	36	571502	250.0	250.0	
36 Vinyl acetate	43	4.903	4.897	0.006	97	64349	4.00	4.04	
43 Ethyl acetate	43	5.803	5.785	0.018	98	37959	4.00	3.77	
60 Isopropyl acetate	43	7.044	7.044	0.000	98	73324	4.00	4.09	
* 62 Fluorobenzene (IS)	96	7.361	7.355	0.006	99	1221891	50.0	50.0	
71 n-Propyl acetate	61	8.358	8.358	0.000	98	15751	4.00	3.90	
121 3,4-Dichloro-1-butene	75	10.202	10.196	0.006	93	29466	4.00	3.97	
124 n-Butyl acetate	43	10.354	10.354	0.000	99	59618	4.00	4.02	
* 128 Chlorobenzene-d5 (IS)	117	10.938	10.938	0.000	84	907812	50.0	50.0	M
140 cis-1,4-Dichloro-2-butene	88	11.868	11.869	-0.001	0	14853	4.00	3.81	
154 Pentachloroethane	167	12.568	12.562	0.006	91	16684	4.00	3.58	
* 160 1,4-Dichlorobenzene-d4	152	12.854	12.854	0.000	94	552888	50.0	50.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00036	Amount Added:	4.00	Units: uL
MSV_CCV_Penta_00049	Amount Added:	4.00	Units: uL
MSV_CCV_EE_00007	Amount Added:	4.00	Units: uL
MSV_CCV_LKB_00009	Amount Added:	4.00	Units: uL
MSV_V_SMFreon_00018	Amount Added:	2.00	Units: uL
MSV_HP04_ISO_00002	Amount Added:	1.00	Units: uL

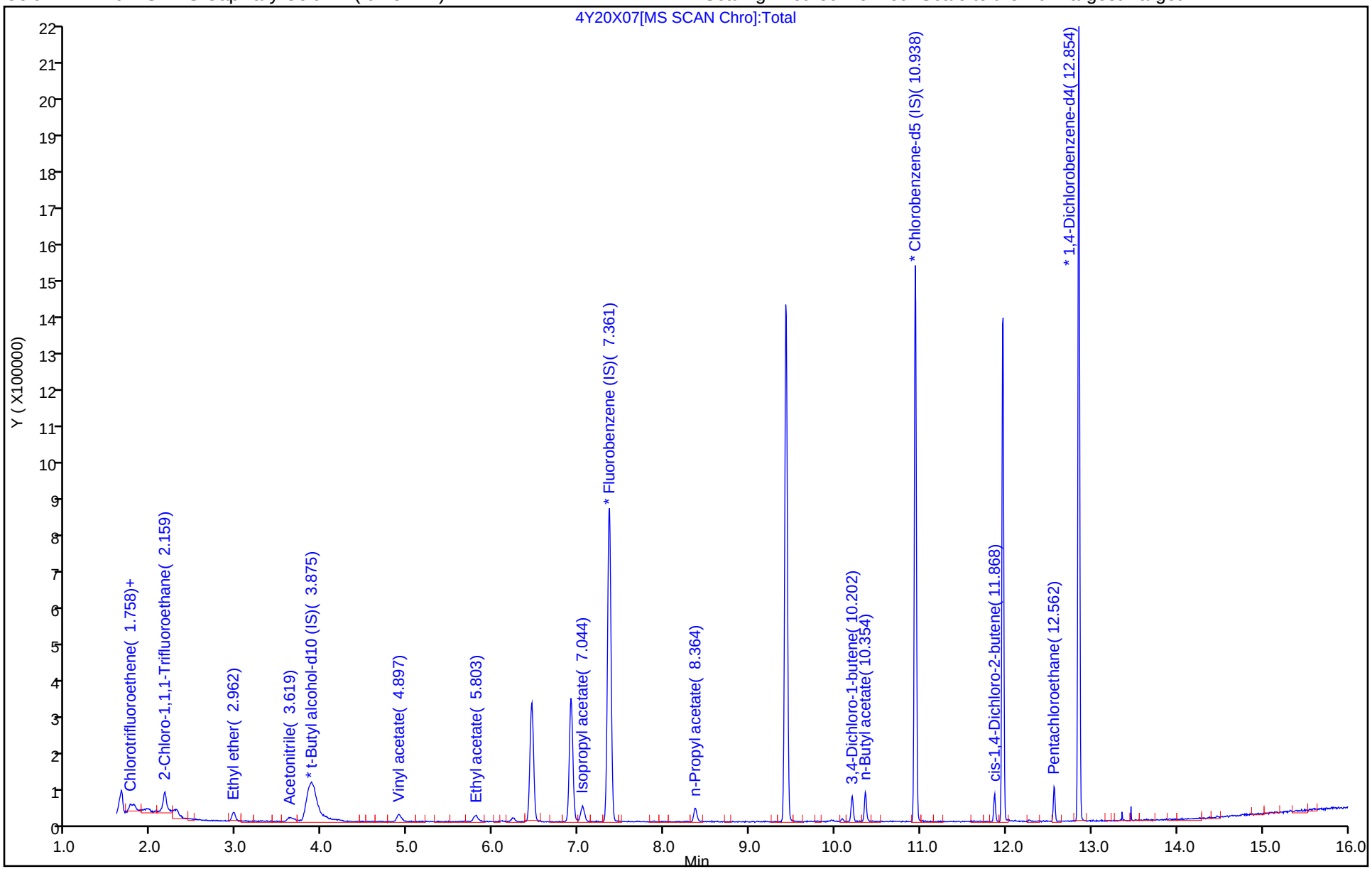
Report Date: 23-May-2024 08:34:38 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X07.D

Injection Date:	20-May-2024 23:30:30	Instrument ID:	23297	Operator ID:	MEC29284
Lims ID:	IC sm v4			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

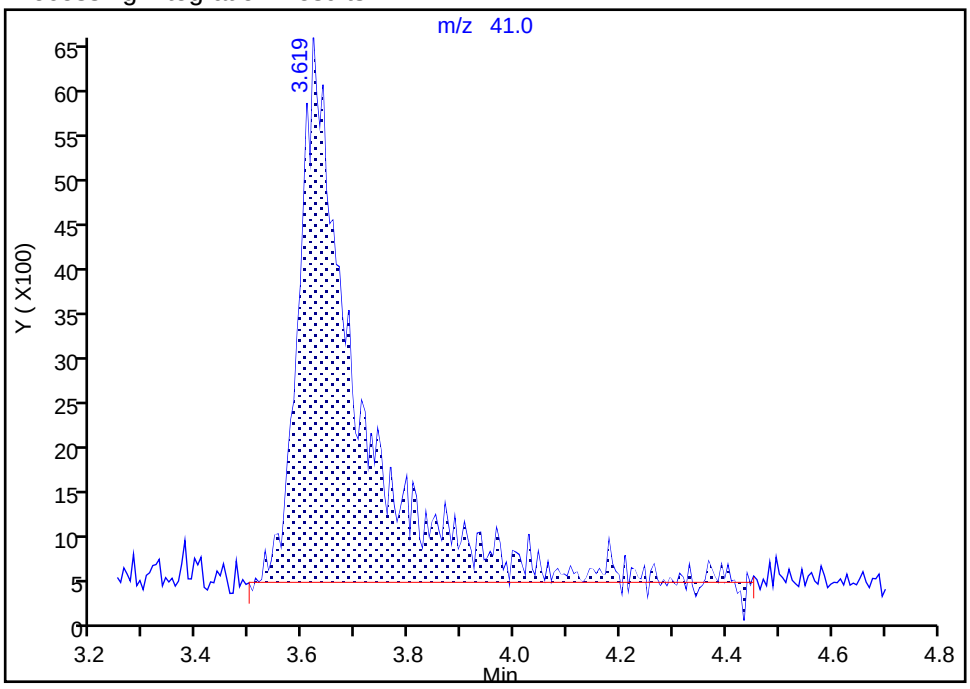
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X07.D
Injection Date: 20-May-2024 23:30:30 Instrument ID: 23297
Lims ID: IC sm v4
Client ID:
Operator ID: MEC29284 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

23 Acetonitrile, CAS: 75-05-8

Signal: 1

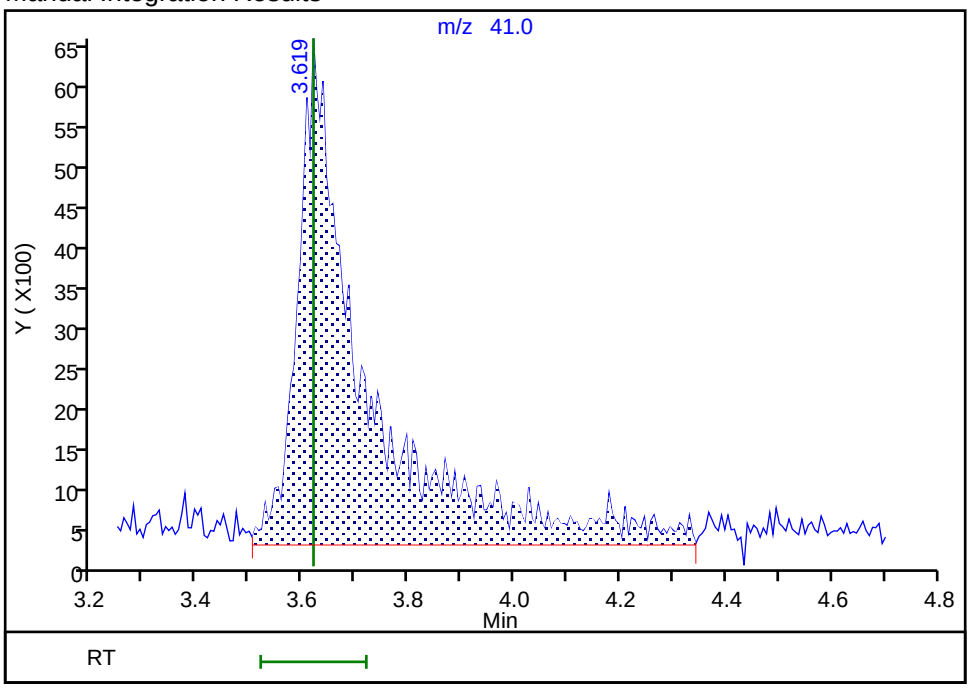
Processing Integration Results

RT: 3.62
Area: 46543
Amount: 21.993675
Amount Units: ug/l



Manual Integration Results

RT: 3.62
Area: 55732
Amount: 25.371641
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 16:55:10 -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

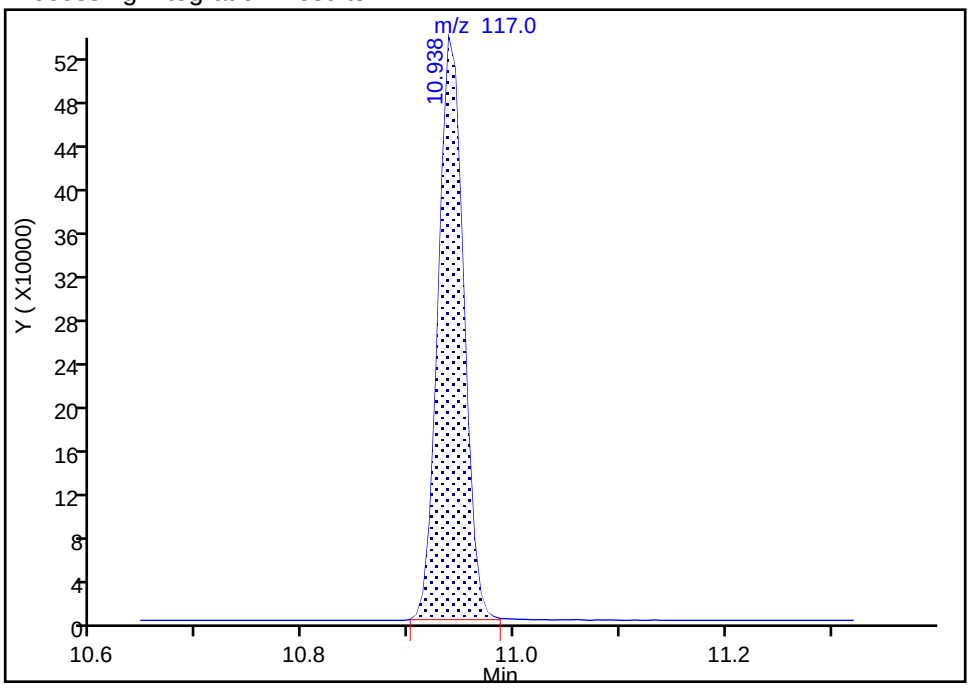
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X07.D
Injection Date: 20-May-2024 23:30:30 Instrument ID: 23297
Lims ID: IC sm v4
Client ID:
Operator ID: MEC29284 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 128 Chlorobenzene-d5 (IS), CAS: 3114-55-4

Signal: 1

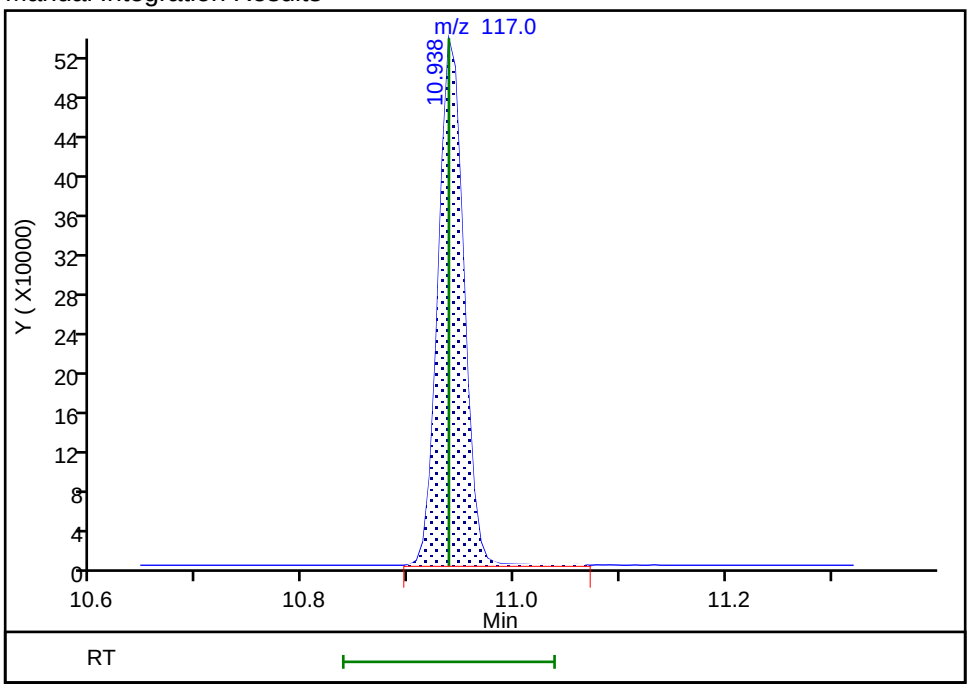
Processing Integration Results

RT: 10.94
Area: 902119
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 10.94
Area: 907812
Amount: 50.000000
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 16:52:00 -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

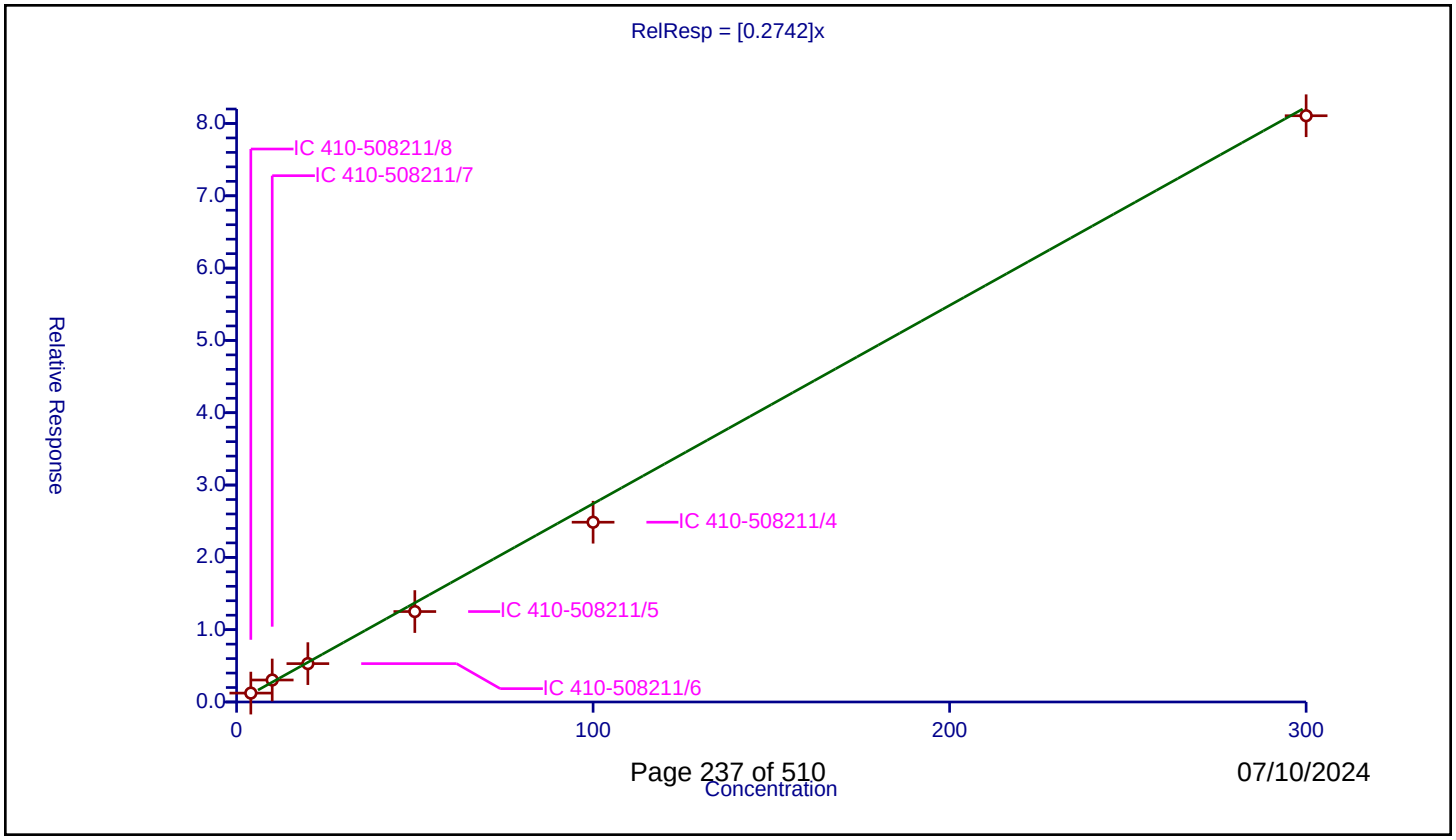
Curve Coefficients

Intercept:	0
Slope:	0.2742

Error Coefficients

Relative Standard Deviation:	9.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/8	4.0	1.228465	50.0	1221891.0	0.307116	Y
2	IC 410-508211/7	10.0	3.038961	50.0	1274531.0	0.303896	Y
3	IC 410-508211/6	20.0	5.305234	50.0	1258050.0	0.265262	Y
4	IC 410-508211/5	50.0	12.507398	50.0	1290840.0	0.250148	Y
5	IC 410-508211/4	100.0	24.860615	50.0	1268426.0	0.248606	Y
6	IC 410-508211/3	300.0	81.072061	50.0	1249975.0	0.27024	Y



Calibration / Chlorodifluoromethane

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

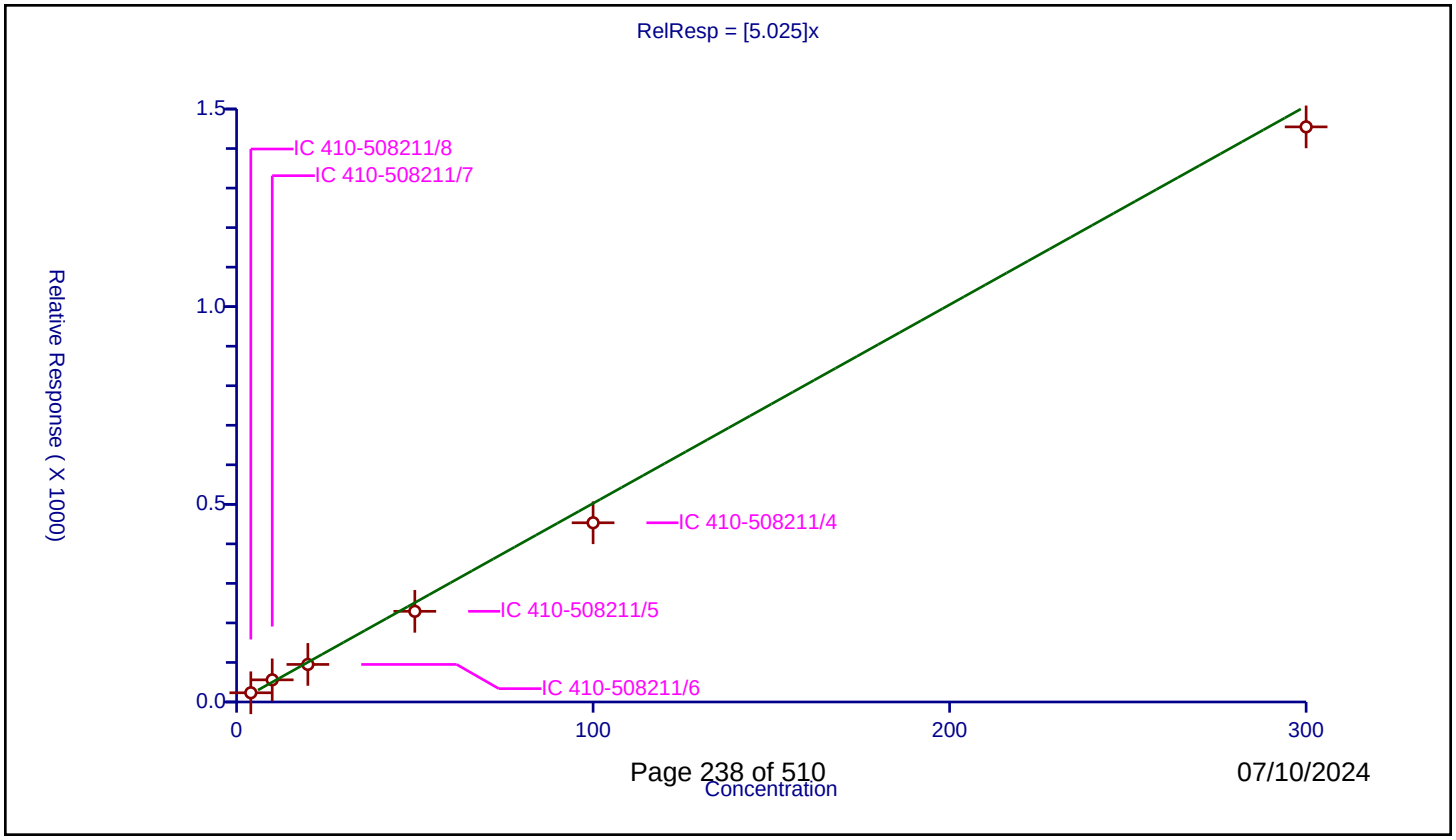
Curve Coefficients

Intercept:	0
Slope:	5.025

Error Coefficients

Relative Standard Deviation:	11.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/8	4.0	23.314004	250.0	571502.0	5.828501	Y
2	IC 410-508211/7	10.0	56.005486	250.0	585831.0	5.600549	Y
3	IC 410-508211/6	20.0	94.980914	250.0	590745.0	4.749046	Y
4	IC 410-508211/5	50.0	229.375753	250.0	608301.0	4.587515	Y
5	IC 410-508211/4	100.0	453.345927	250.0	588925.0	4.533459	Y
6	IC 410-508211/3	300.0	1454.805638	250.0	558261.0	4.849352	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

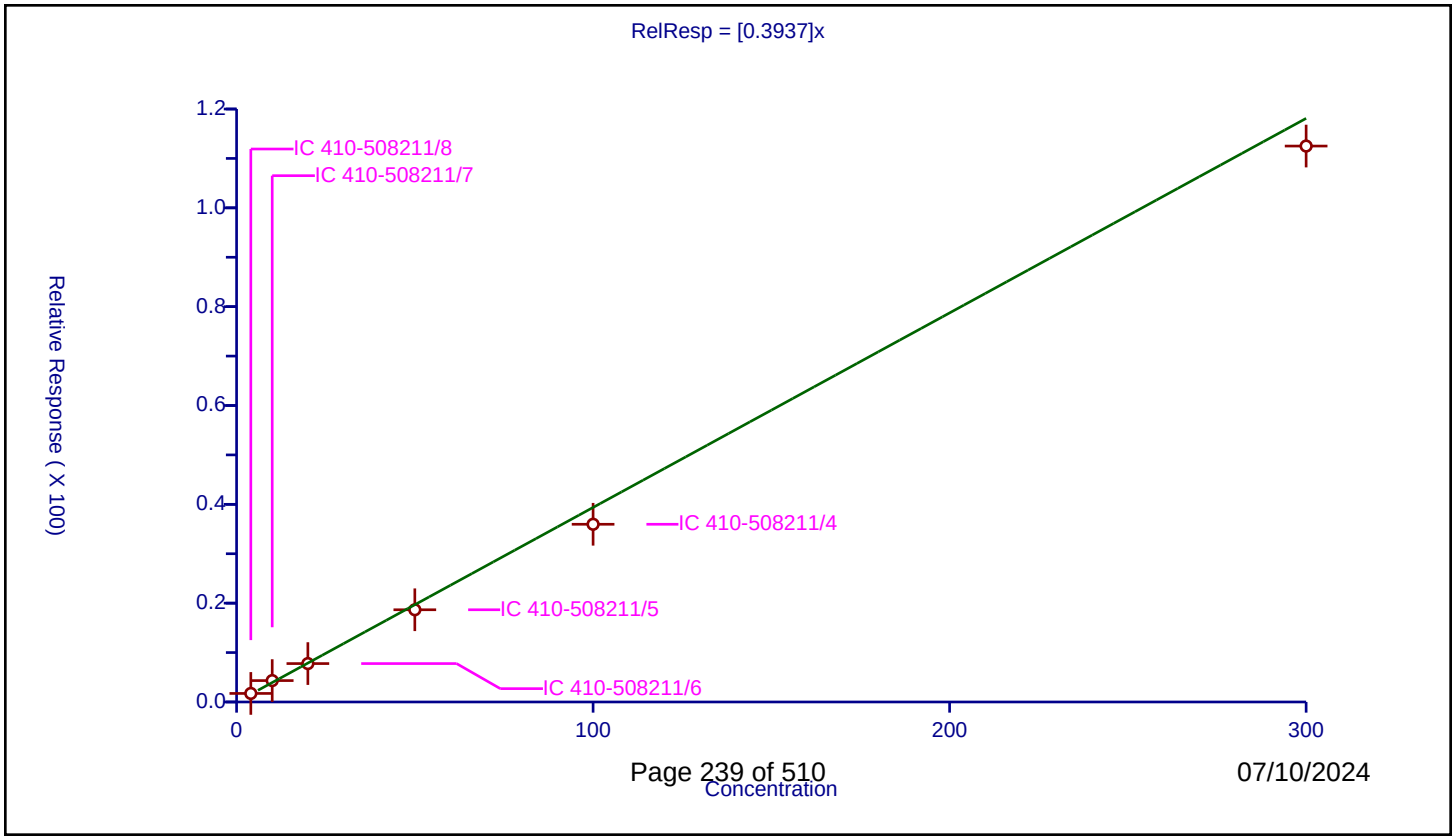
Curve Coefficients

Intercept:	0
Slope:	0.3937

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/8	4.0	1.730392	50.0	1221891.0	0.432598	Y
2	IC 410-508211/7	10.0	4.329122	50.0	1274531.0	0.432912	Y
3	IC 410-508211/6	20.0	7.772147	50.0	1258050.0	0.388607	Y
4	IC 410-508211/5	50.0	18.665326	50.0	1290840.0	0.373307	Y
5	IC 410-508211/4	100.0	35.967727	50.0	1268426.0	0.359677	Y
6	IC 410-508211/3	300.0	112.50637	50.0	1249975.0	0.375021	Y



Calibration / Ethyl ether

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

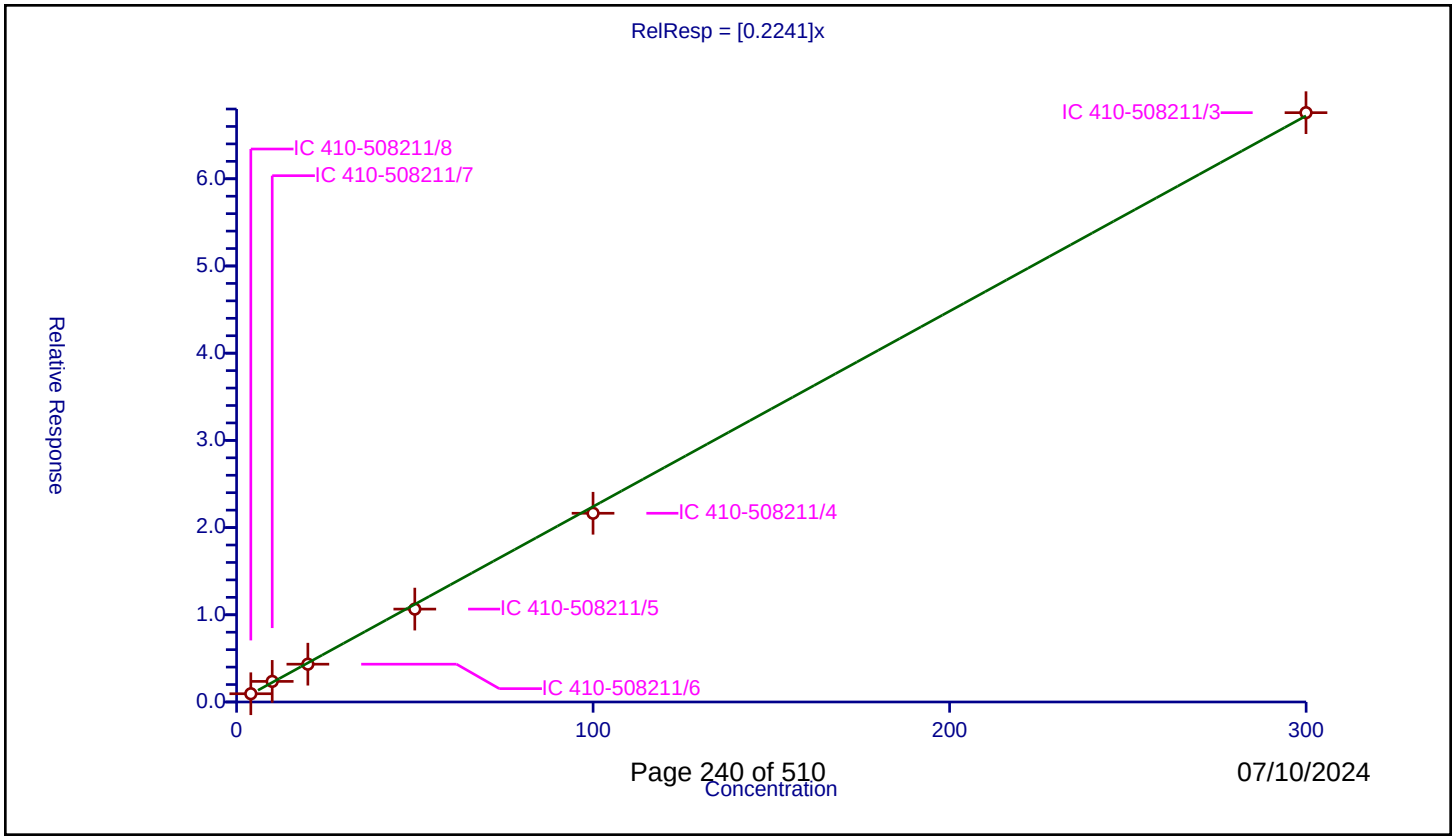
Curve Coefficients

Intercept:	0
Slope:	0.2241

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/8	3.999587	0.946484	50.0	1221891.0	0.236645	Y
2	IC 410-508211/7	9.998968	2.362124	50.0	1274531.0	0.236237	Y
3	IC 410-508211/6	19.997936	4.335996	50.0	1258050.0	0.216822	Y
4	IC 410-508211/5	49.99484	10.651281	50.0	1290840.0	0.213048	Y
5	IC 410-508211/4	99.98968	21.642138	50.0	1268426.0	0.216444	Y
6	IC 410-508211/3	299.96904	67.580592	50.0	1249975.0	0.225292	Y



Calibration / Acetonitrile

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

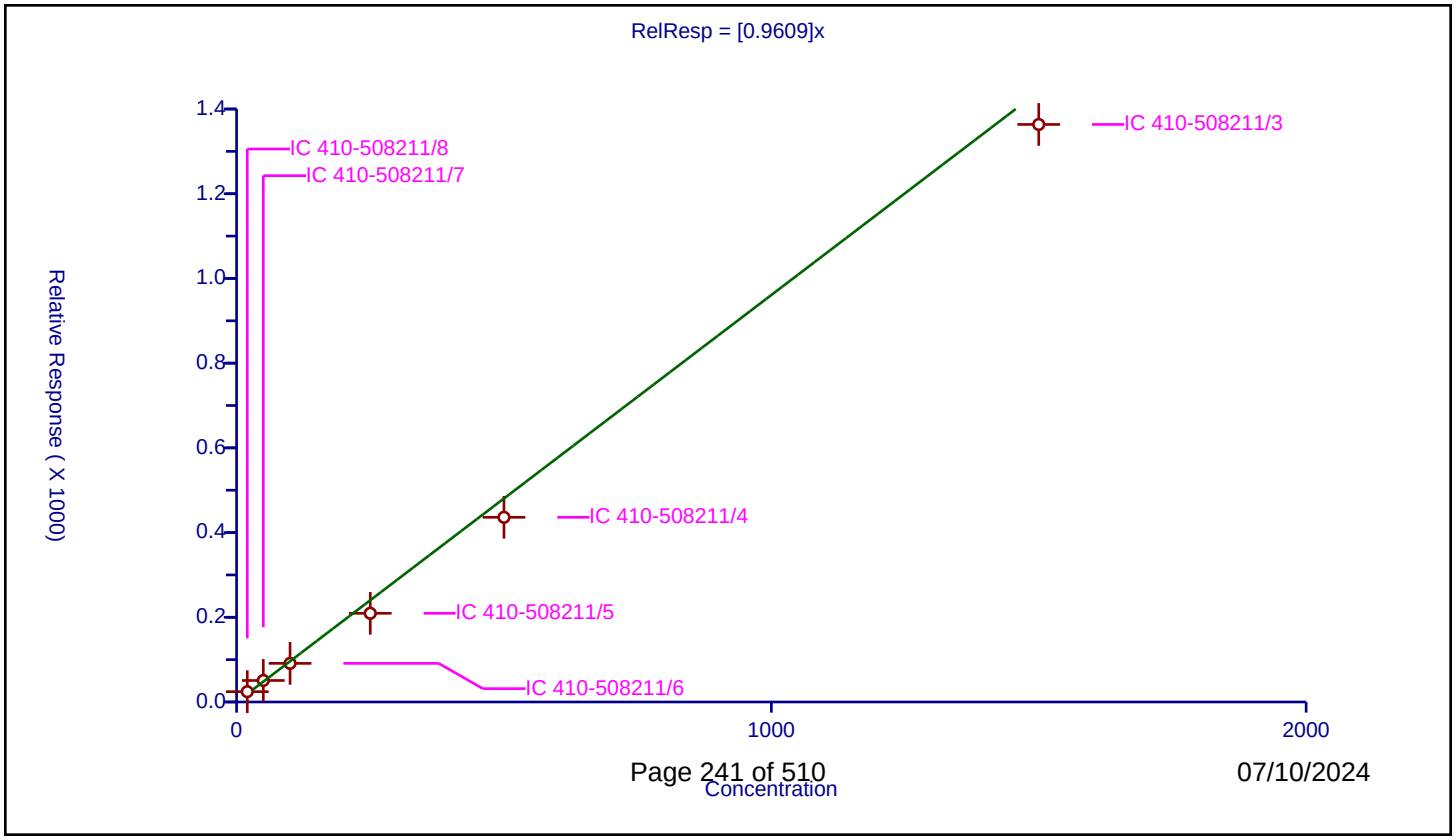
Curve Coefficients

Intercept:	0
Slope:	0.9609

Error Coefficients

Relative Standard Deviation:	14.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/8	20.0	24.379617	250.0	571502.0	1.218981	Y
2	IC 410-508211/7	50.0	50.802621	250.0	585831.0	1.016052	Y
3	IC 410-508211/6	100.0	91.170894	250.0	590745.0	0.911709	Y
4	IC 410-508211/5	250.0	209.393047	250.0	608301.0	0.837572	Y
5	IC 410-508211/4	500.0	436.024536	250.0	588925.0	0.872049	Y
6	IC 410-508211/3	1500.0	1363.557547	250.0	558261.0	0.909038	Y



Calibration / Vinyl acetate

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

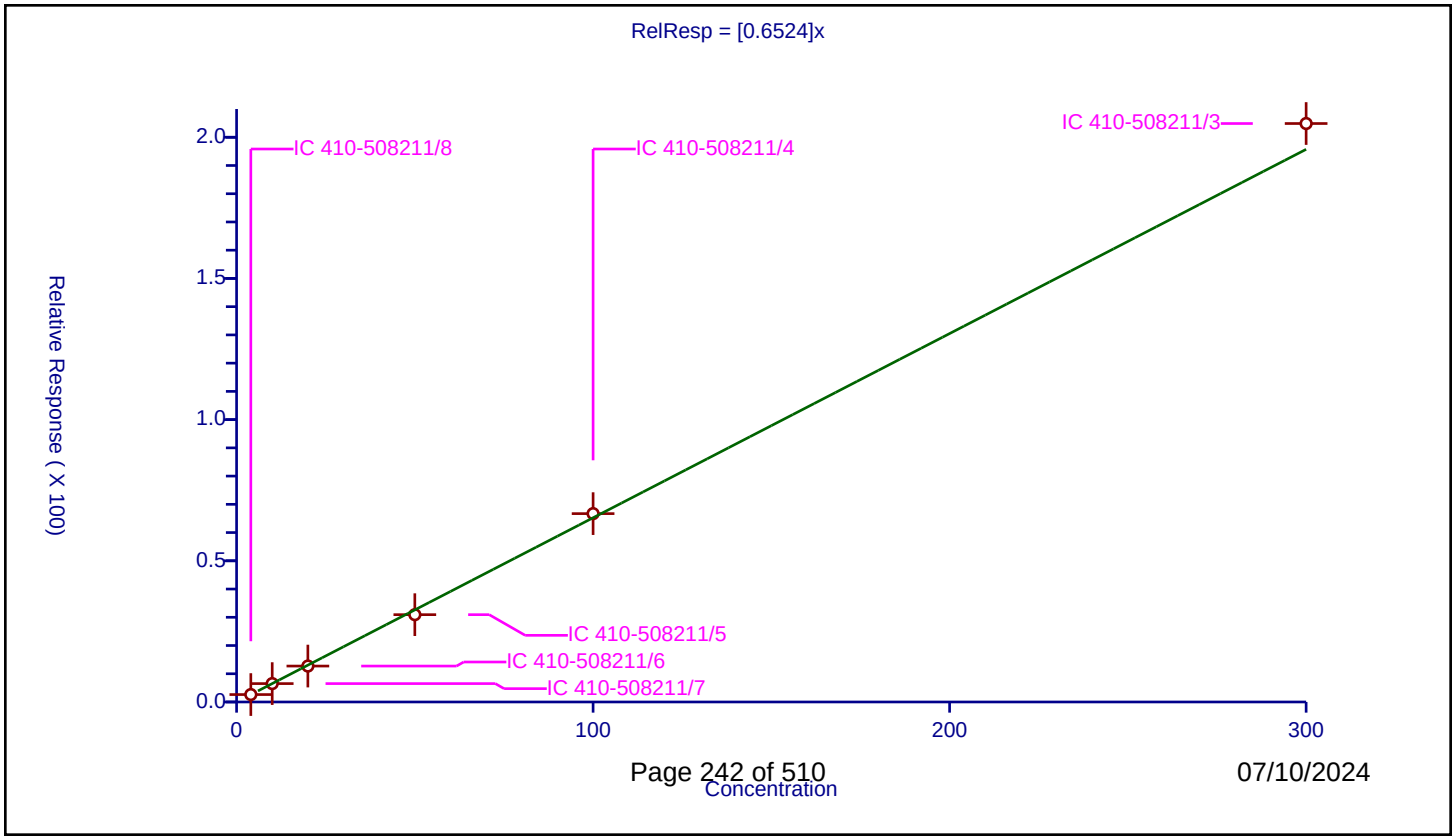
Curve Coefficients

Intercept:	0
Slope:	0.6524

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/8	4.0	2.633173	50.0	1221891.0	0.658293	Y
2	IC 410-508211/7	10.0	6.513259	50.0	1274531.0	0.651326	Y
3	IC 410-508211/6	20.0	12.725289	50.0	1258050.0	0.636264	Y
4	IC 410-508211/5	50.0	30.927613	50.0	1290840.0	0.618552	Y
5	IC 410-508211/4	100.0	66.705468	50.0	1268426.0	0.667055	Y
6	IC 410-508211/3	300.0	204.860097	50.0	1249975.0	0.682867	Y



Calibration / Ethyl acetate

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

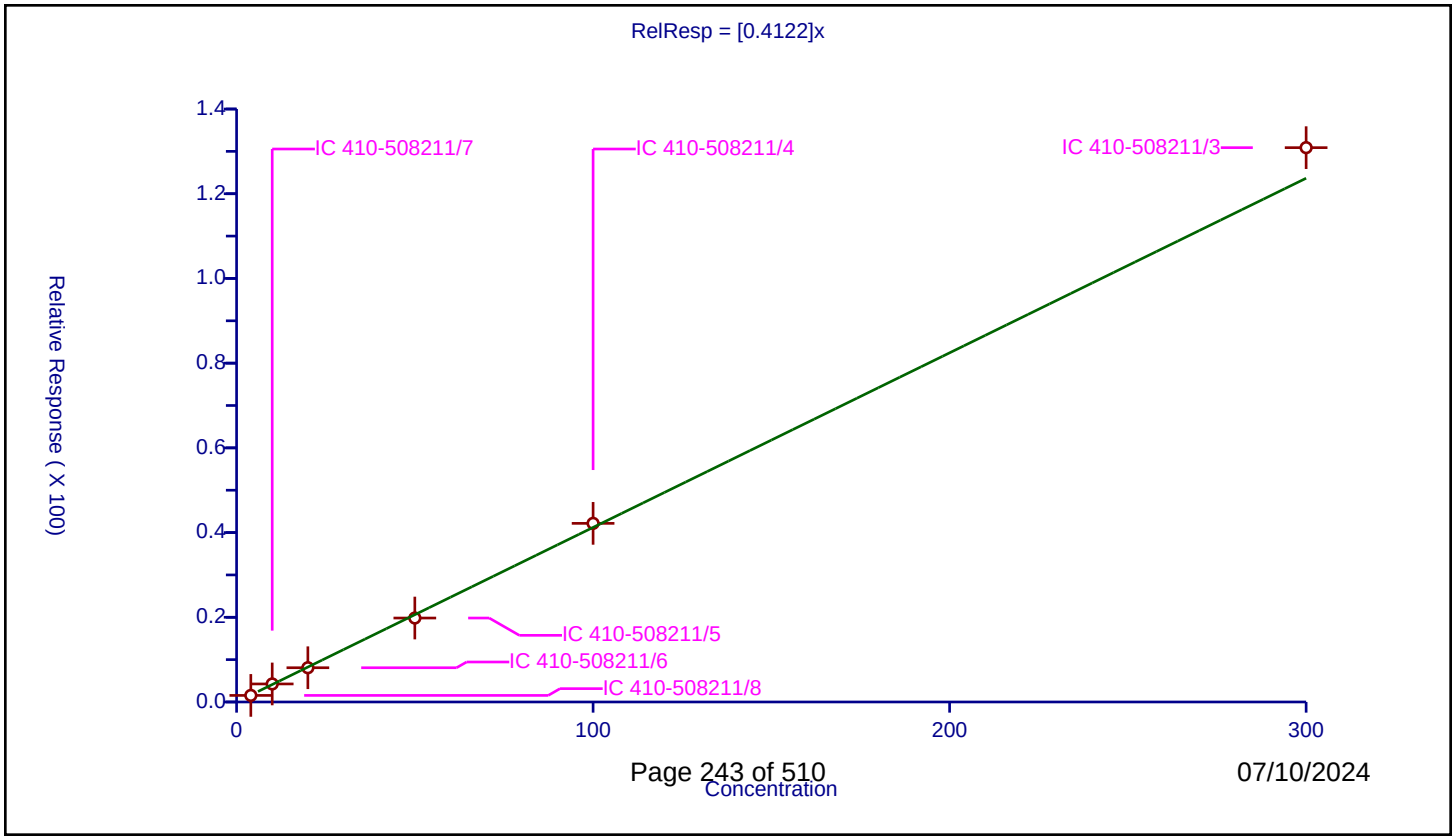
Curve Coefficients

Intercept:	0
Slope:	0.4122

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/8	4.0	1.553289	50.0	1221891.0	0.388322	Y
2	IC 410-508211/7	10.0	4.25992	50.0	1274531.0	0.425992	Y
3	IC 410-508211/6	20.0	8.086324	50.0	1258050.0	0.404316	Y
4	IC 410-508211/5	50.0	19.823758	50.0	1290840.0	0.396475	Y
5	IC 410-508211/4	100.0	42.175381	50.0	1268426.0	0.421754	Y
6	IC 410-508211/3	300.0	130.876538	50.0	1249975.0	0.436255	Y



Calibration / Isopropyl acetate

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

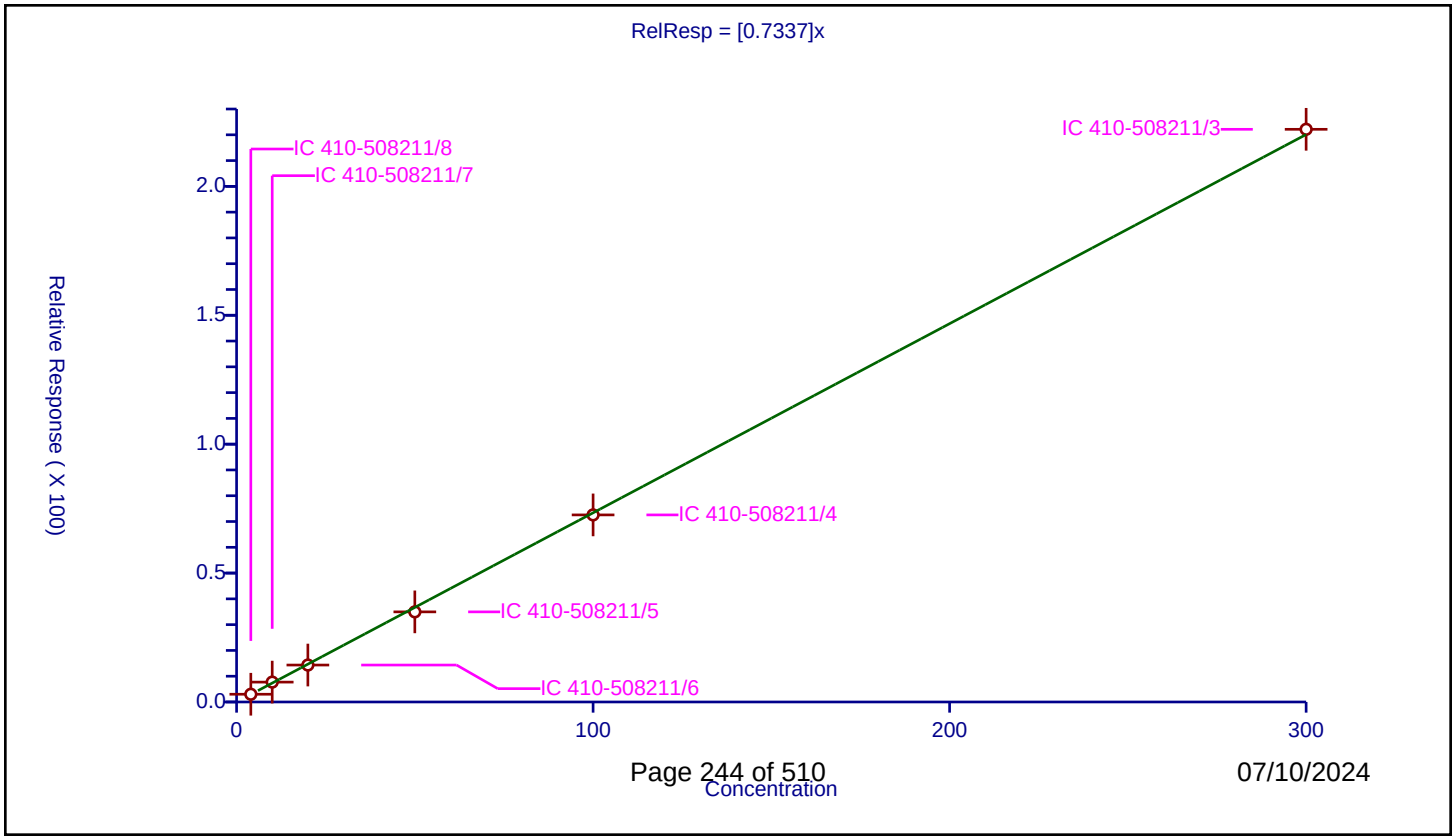
Curve Coefficients

Intercept:	0
Slope:	0.7337

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/8	4.0	3.000431	50.0	1221891.0	0.750108	Y
2	IC 410-508211/7	10.0	7.706835	50.0	1274531.0	0.770683	Y
3	IC 410-508211/6	20.0	14.328008	50.0	1258050.0	0.7164	Y
4	IC 410-508211/5	50.0	34.951969	50.0	1290840.0	0.699039	Y
5	IC 410-508211/4	100.0	72.564501	50.0	1268426.0	0.725645	Y
6	IC 410-508211/3	300.0	222.130883	50.0	1249975.0	0.740436	Y



Calibration / n-Propyl acetate

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

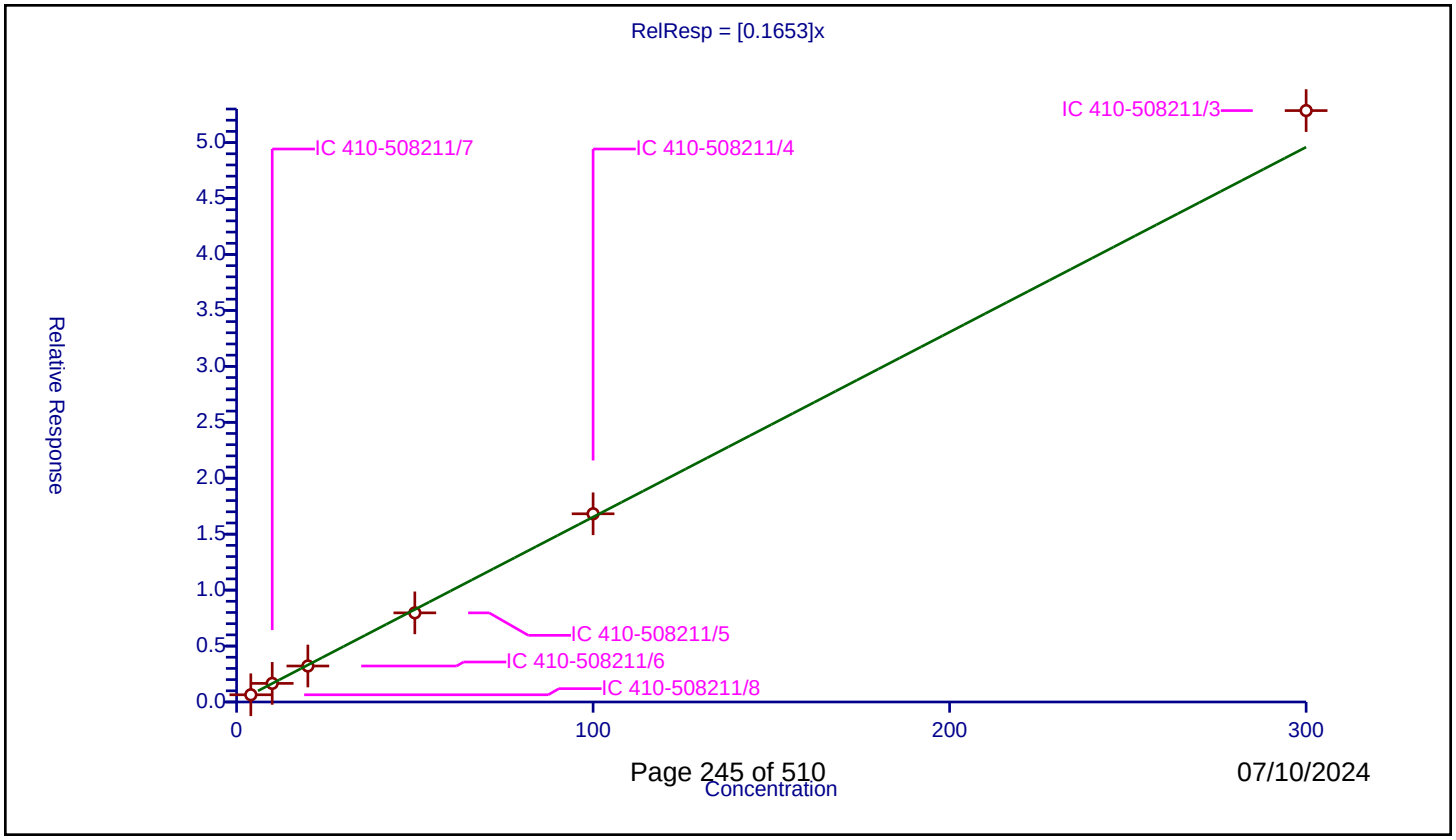
Curve Coefficients

Intercept:	0
Slope:	0.1653

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/8	4.0	0.644534	50.0	1221891.0	0.161133	Y
2	IC 410-508211/7	10.0	1.662023	50.0	1274531.0	0.166202	Y
3	IC 410-508211/6	20.0	3.21589	50.0	1258050.0	0.160794	Y
4	IC 410-508211/5	50.0	7.965859	50.0	1290840.0	0.159317	Y
5	IC 410-508211/4	100.0	16.822266	50.0	1268426.0	0.168223	Y
6	IC 410-508211/3	300.0	52.858857	50.0	1249975.0	0.176196	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

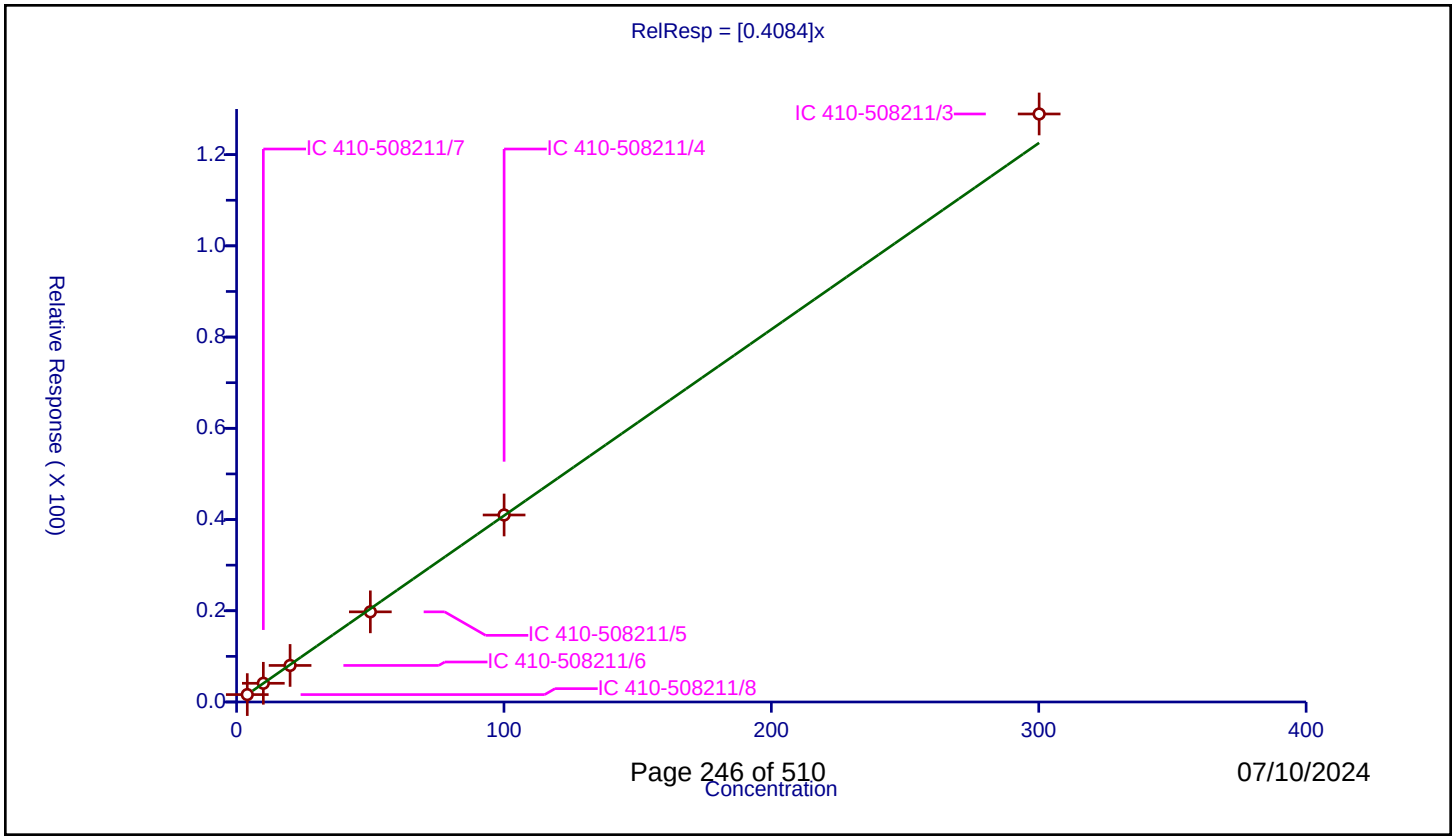
Curve Coefficients

Intercept:	0
Slope:	0.4084

Error Coefficients

Relative Standard Deviation:	2.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/8	4.002102	1.622913	50.0	907812.0	0.405515	Y
2	IC 410-508211/7	10.005254	4.102382	50.0	910922.0	0.410023	Y
3	IC 410-508211/6	20.010508	8.014715	50.0	902646.0	0.400525	Y
4	IC 410-508211/5	50.02627	19.76103	50.0	949075.0	0.395013	Y
5	IC 410-508211/4	100.05254	40.99787	50.0	938389.0	0.409763	Y
6	IC 410-508211/3	300.15762	128.911489	50.0	939834.0	0.429479	Y



Calibration / n-Butyl acetate

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

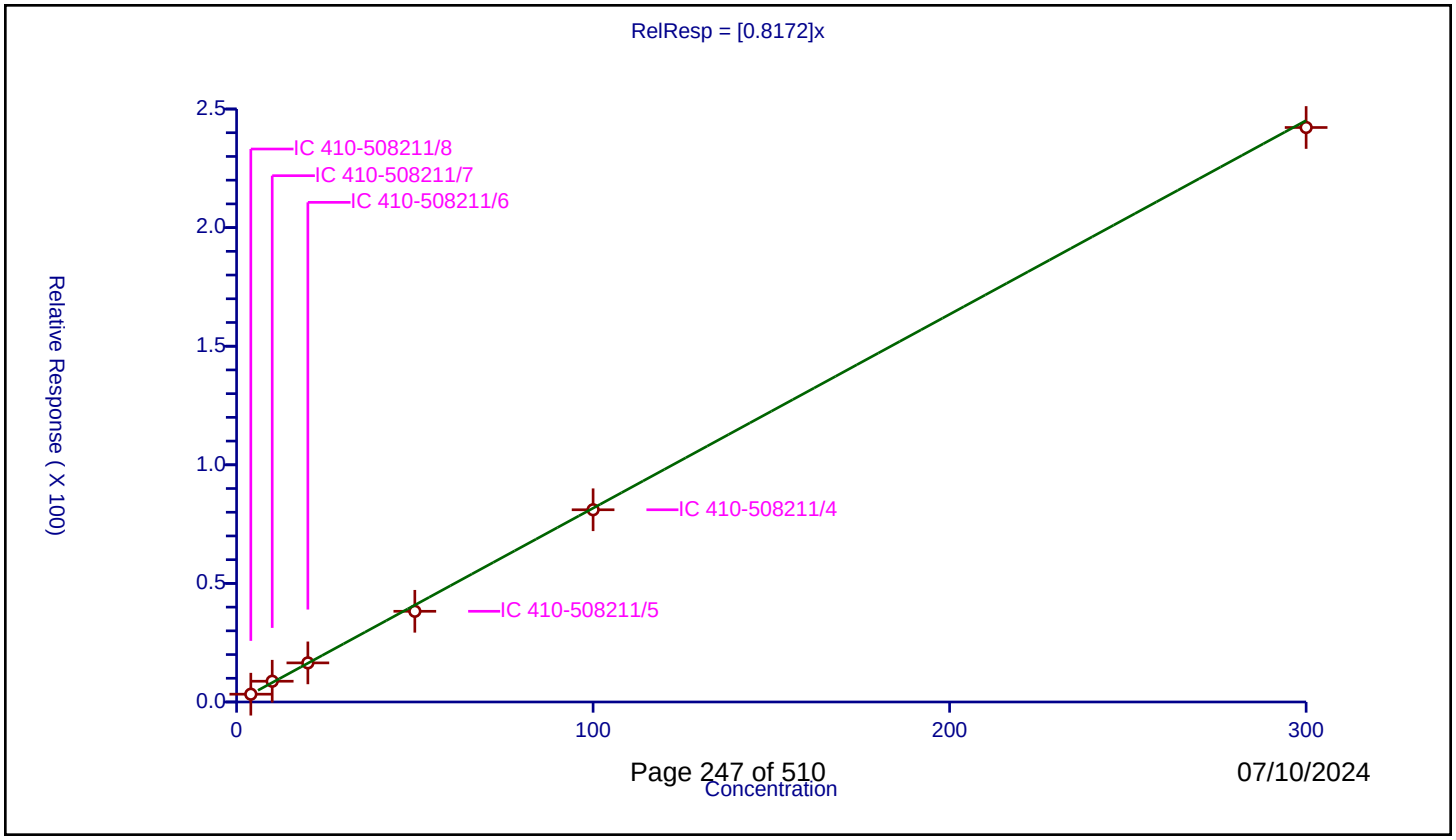
Curve Coefficients

Intercept:	0
Slope:	0.8172

Error Coefficients

Relative Standard Deviation:	4.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/8	4.0	3.283609	50.0	907812.0	0.820902	Y
2	IC 410-508211/7	10.0	8.750365	50.0	910922.0	0.875037	Y
3	IC 410-508211/6	20.0	16.490296	50.0	902646.0	0.824515	Y
4	IC 410-508211/5	50.0	38.239602	50.0	949075.0	0.764792	Y
5	IC 410-508211/4	100.0	81.041018	50.0	938389.0	0.81041	Y
6	IC 410-508211/3	300.0	242.212401	50.0	939834.0	0.807375	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

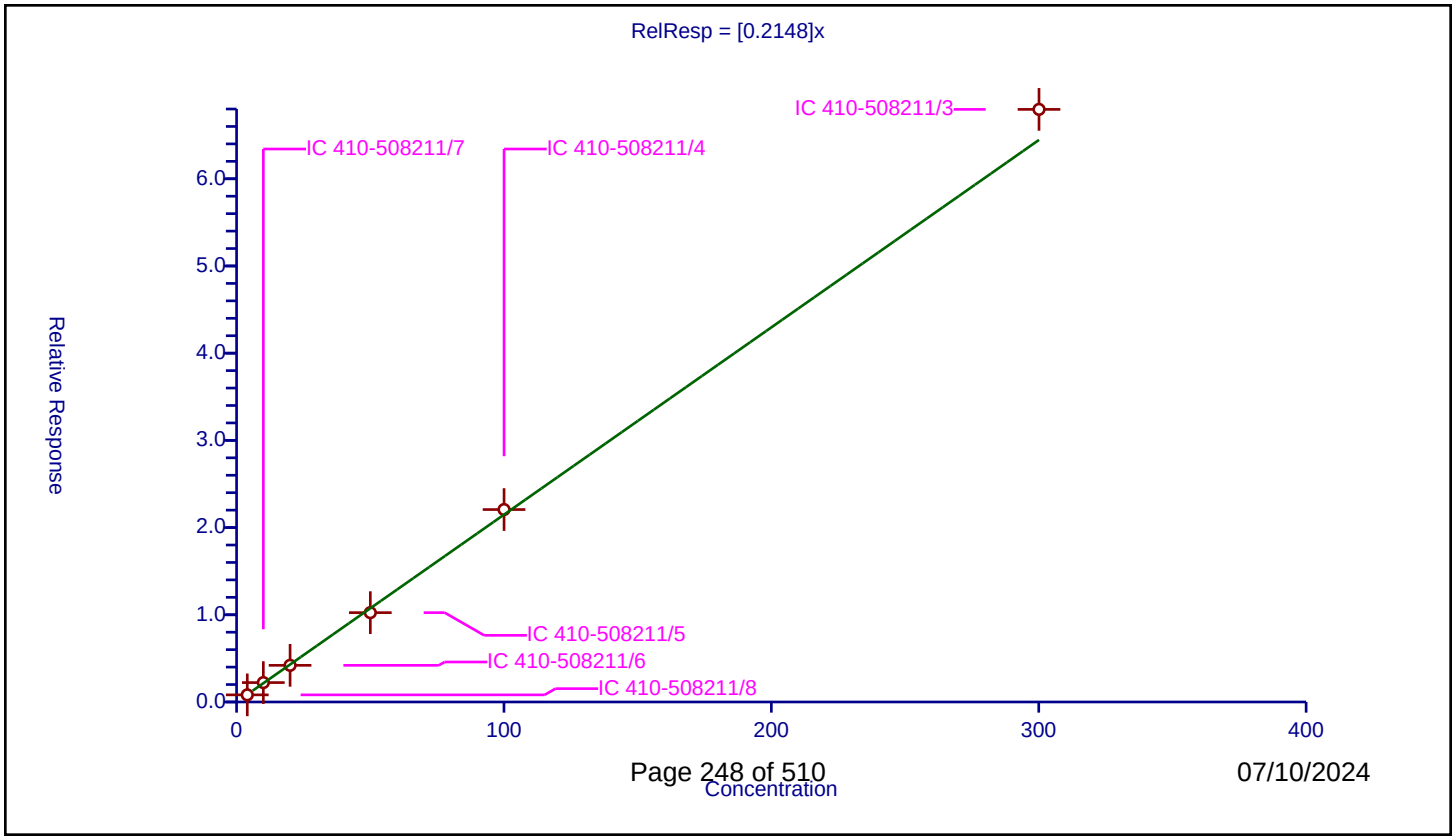
Curve Coefficients

Intercept:	0
Slope:	0.2148

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/8	4.0014	0.818066	50.0	907812.0	0.204445	Y
2	IC 410-508211/7	10.0035	2.223352	50.0	910922.0	0.222257	Y
3	IC 410-508211/6	20.007	4.204195	50.0	902646.0	0.210136	Y
4	IC 410-508211/5	50.0175	10.245239	50.0	949075.0	0.204833	Y
5	IC 410-508211/4	100.035	22.069632	50.0	938389.0	0.220619	Y
6	IC 410-508211/3	300.105	67.957107	50.0	939834.0	0.226444	Y



Calibration / Pentachloroethane

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

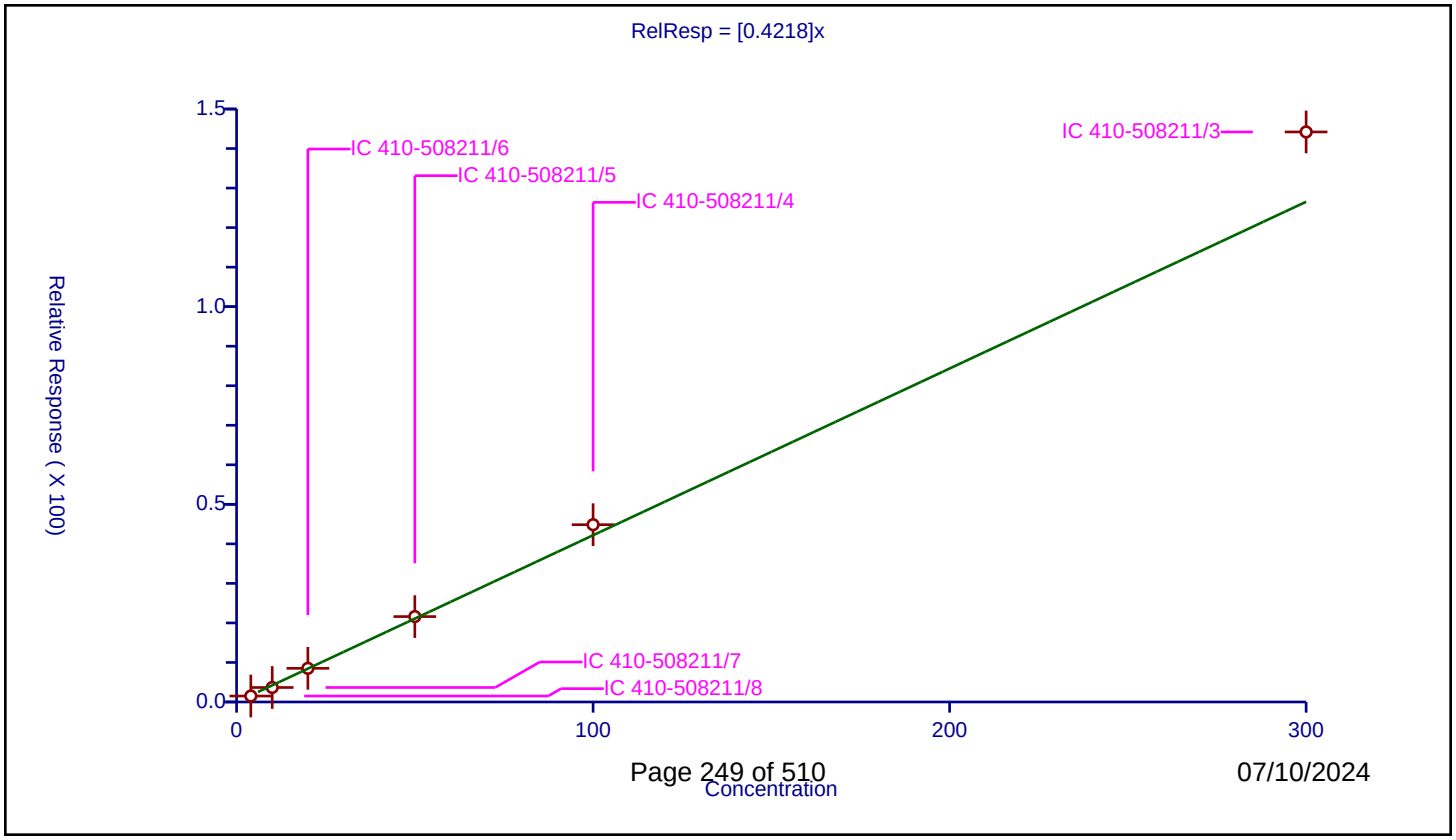
Curve Coefficients

Intercept:	0
Slope:	0.4218

Error Coefficients

Relative Standard Deviation:	10.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/8	4.0	1.508805	50.0	552888.0	0.377201	Y
2	IC 410-508211/7	10.0	3.66446	50.0	557954.0	0.366446	Y
3	IC 410-508211/6	20.0	8.514622	50.0	537358.0	0.425731	Y
4	IC 410-508211/5	50.0	21.604008	50.0	556082.0	0.43208	Y
5	IC 410-508211/4	100.0	44.849885	50.0	564201.0	0.448499	Y
6	IC 410-508211/3	300.0	144.199825	50.0	560621.0	0.480666	Y



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

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1 Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/21/2024 01:00 Calibration End Date: 05/21/2024 03:15 Calibration ID: 61942

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-508211/12	4Y20X11.D
Level 2	IC 410-508211/13	4Y20X12.D
Level 3	IC 410-508211/14	4Y20X13.D
Level 4	IC 410-508211/15	4Y20X14.D
Level 5	ICIS 410-508211/16	4Y20X15.D
Level 6	IC 410-508211/17	4Y20X16.D
Level 7	IC 410-508211/18	4Y20X17.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	0.4073 0.4303	0.4576 0.4383	0.4470	0.4619	0.4481	Ave		0.4415			0.1000	4.2		20.0			
Chloromethane	0.5185 0.4638	0.5008 0.4431	0.4882	0.4794	0.4588	Ave		0.4789			0.1000	5.4		20.0			
Vinyl chloride	0.3984 0.4487	0.4648 0.4340	0.4624	0.4689	0.4462	Ave		0.4462			0.1000	5.5		20.0			
1,3-Butadiene	0.3834 0.4219	0.4941 0.4153	0.4697	0.4519	0.4361	Ave		0.4389				8.4		20.0			
Bromomethane	0.3695 0.3201	0.3162 0.3032	0.3412	0.3365	0.3168	Ave		0.3291			0.1000	6.7		20.0			
Chloroethane	0.2278 0.2375	0.2478 0.2278	0.2462	0.2484	0.2361	Ave		0.2388			0.1000	3.7		20.0			
Dichlorofluoromethane	0.6049 0.6562	0.6872 0.6234	0.6763	0.6821	0.6494	Ave		0.6542			0.1000	4.7		20.0			
Trichlorofluoromethane	0.4024 0.4692	0.4754 0.4772	0.4832	0.4984	0.4820	Ave		0.4697			0.1000	6.6		20.0			
n-Pentane	0.3901 0.4005	0.4073 0.4266	0.3581	0.4188	0.4048	Ave		0.4009				5.6		20.0			
Ethanol	0.0836 0.0807	0.0692 0.0734	0.0728	0.0787	0.0778	Ave		0.0766				6.5		20.0			
Freon 123a	0.3343 0.3253	0.3374 0.3229	0.3506	0.3436	0.3293	Ave		0.3348				3.0		20.0			
Acrolein	1.0710 1.1545	1.1048 1.1346	1.0289	1.1069	1.1259	Ave		1.1038				3.8		20.0			
1,1-Dichloroethene	0.2080 0.2278	0.2357 0.2388	0.2213	0.2465	0.2337	Ave		0.2303			0.1000	5.5		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.: 410-177784-1 Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/21/2024 01:00 Calibration End Date: 05/21/2024 03:15 Calibration ID: 61942

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	0.5875 0.6273	0.6686 0.5933	0.5929	0.6033	0.6210	Ave		0.6134			0.1000	4.7		20.0			
Freon 113	0.2231 0.2623	0.2724 0.2769	0.2378	0.2835	0.2775	Ave		0.2619			0.1000	8.7		20.0			
2-Propanol	0.6777 0.6262	0.6552 0.5156	0.5896	0.6111	0.6000	Ave		0.6108				8.5		20.0			
Methyl iodide	0.4387 0.4965	0.4808 0.4927	0.4713	0.5130	0.4963	Ave		0.4842				4.9		20.0			
Carbon disulfide	0.7834 0.8688	0.8586 0.8895	0.8197	0.9180	0.8867	Ave		0.8607			0.1000	5.3		20.0			
Methyl acetate	0.3778 0.3424	0.3444 0.3235	0.3428	0.3606	0.3422	Ave		0.3477			0.1000	4.9		20.0			
Allyl chloride	0.3916 0.3791	0.3791 0.3718	0.3635	0.4001	0.3819	Ave		0.3810				3.2		20.0			
Methylene Chloride	0.2775 0.2898	0.2903 0.2924	0.2781	0.2952	0.2865	Ave		0.2871			0.1000	2.4		20.0			
t-Butyl alcohol	1.1816 1.0582	1.0900 0.9133	0.9679	1.0498	1.0371	Ave		1.0425				8.2		20.0			
Acrylonitrile	0.1826 0.1853	0.1804 0.1780	0.1802	0.1990	0.1884	Ave		0.1848				3.9		20.0			
Methyl tert-butyl ether	0.8334 0.8709	0.8479 0.8335	0.8315	0.8978	0.8754	Ave		0.8558			0.1000	3.0		20.0			
trans-1,2-Dichloroethene	0.2556 0.2404	0.2473 0.2355	0.2334	0.2584	0.2434	Ave		0.2449			0.1000	3.9		20.0			
n-Hexane	0.3521 0.3147	0.3307 0.3143	0.2971	0.3495	0.3352	Ave		0.3277				6.1		20.0			
1,1-Dichloroethane	0.3890 0.4274	0.4344 0.4150	0.4077	0.4588	0.4411	Ave		0.4248			0.2000	5.4		20.0			
Isopropyl ether	0.7766 0.8420	0.8256 0.8156	0.8138	0.8568	0.8453	Ave		0.8251				3.2		20.0			
2-Chloro-1,3-butadiene	0.3297 0.3542	0.3637 0.3428	0.3448	0.3867	0.3677	Ave		0.3556				5.3		20.0			
Ethyl t-butyl ether	0.7798 0.8312	0.8074 0.8040	0.7949	0.8593	0.8302	Ave		0.8153				3.3		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
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1 Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/21/2024 01:00 Calibration End Date: 05/21/2024 03:15 Calibration ID: 61942

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)	0.2283 0.2646	0.2660 0.2576	0.2699	0.2729	0.2791	Ave		0.2626			0.1000	6.3		20.0			
cis-1,2-Dichloroethene	0.2841 0.2799	0.2862 0.2719	0.2827	0.2985	0.2851	Ave		0.2841			0.1000	2.8		20.0			
2,2-Dichloropropane	0.4588 0.4078	0.4204 0.4051	0.3994	0.4376	0.4045	Ave		0.4191				5.2		20.0			
Propionitrile	0.9087 1.0054	0.9028 0.9557	0.9017	0.9757	0.9784	Ave		0.9469				4.5		20.0			
Methyl acrylate	0.5263 0.4759	0.4603 0.4588	0.4551	0.4802	0.4781	Ave		0.4764				5.1		20.0			
Methacrylonitrile	0.1833 0.1853	0.1829 0.1789	0.1856	0.1910	0.1869	Ave		0.1849				2.0		20.0			
Bromochloromethane	0.1384 0.1475	0.1450 0.1442	0.1479	0.1558	0.1485	Ave		0.1468				3.6		20.0			
Tetrahydrofuran	0.8591 0.8718	0.8725 0.8247	0.7867	0.8577	0.8715	Ave		0.8491				3.8		20.0			
Chloroform	1.3780 0.4401	0.6761 0.4154	0.5237	0.5048	0.4528	Lin2	0.9468	0.4334			0.2000				0.9990		0.9900
1,1,1-Trichloroethane	0.3732 0.4022	0.3995 0.4029	0.3818	0.4151	0.4059	Ave		0.3972			0.1000	3.7		20.0			
Cyclohexane	0.4547 0.4738	0.4988 0.4961	0.4477	0.5206	0.4984	Ave		0.4843			0.1000	5.5		20.0			
Carbon tetrachloride	0.2601 0.3395	0.3338 0.3482	0.3108	0.3550	0.3453	Ave		0.3275			0.1000	10.1		20.0			
1,1-Dichloropropene	0.3186 0.3378	0.3387 0.3296	0.3260	0.3597	0.3456	Ave		0.3366				4.0		20.0			
Isobutyl alcohol	0.3822 0.3458	0.3514 0.3104	0.3030	0.3320	0.3378	Ave		0.3375				7.9		20.0			
Benzene	0.9786 1.0450	1.0185 0.9938	1.0021	1.0853	1.0499	Ave		1.0247			0.5000	3.6		20.0			
1,2-Dichloroethane	0.3106 0.3453	0.3295 0.3237	0.3314	0.3490	0.3375	Ave		0.3324			0.1000	3.9		20.0			
t-Amyl methyl ether	0.7723 0.8347	0.7870 0.8066	0.7997	0.8411	0.8275	Ave		0.8099				3.2		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.: 410-177784-1 Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/21/2024 01:00 Calibration End Date: 05/21/2024 03:15 Calibration ID: 61942

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	0.3718 0.3640	0.3644 0.3494	0.3315	0.3784	0.3808	Ave		0.3629				4.8		20.0			
n-Butanol	0.2840 0.2900	0.2594 0.2623	0.2480	0.2723	0.2790	Ave		0.2707				5.5		20.0			
Trichloroethene	0.2514 0.2730	0.2487 0.2671	0.2537	0.2808	0.2697	Ave		0.2635			0.2000	4.6		20.0			
Ethyl acrylate	0.5122 0.4978	0.4467 0.4951	0.4666	0.4688	0.4882	Ave		0.4822				4.7		20.0			
Methylcyclohexane	0.4327 0.4879	0.4901 0.5113	0.4438	0.5140	0.5131	Ave		0.4847			0.1000	6.9		20.0			
1,2-Dichloropropane	0.2428 0.2813	0.2587 0.2782	0.2562	0.2794	0.2812	Ave		0.2683			0.1000	5.8		20.0			
t-Amyl ethyl ether	0.3607 0.4121	0.3700 0.4140	0.3776	0.4187	0.4010	Ave		0.3935				6.0		20.0			
1,4-Dioxane	+++++ 0.0729	0.0660 0.0659	0.0689	0.0701	0.0704	Ave		0.0690			0.0050	4.0		20.0			
Methyl methacrylate	0.2822 0.2747	0.2522 0.2756	0.2553	0.2745	0.2757	Ave		0.2700				4.2		20.0			
Dibromomethane	0.1752 0.1936	0.1844 0.1895	0.1868	0.1945	0.1908	Ave		0.1878				3.5		20.0			
Bromodichloromethane	0.3162 0.3416	0.3089 0.3400	0.3107	0.3404	0.3335	Ave		0.3273			0.2000	4.5		20.0			
2-Nitropropane	1.4044 1.4216	1.2823 1.3676	1.2180	1.3236	1.3895	Ave		1.3439				5.5		20.0			
2-Chloroethyl vinyl ether	0.1662 0.2112	0.1793 0.2156	0.1866	0.1962	0.2031	Ave		0.1940				9.2		20.0			
cis-1,3-Dichloropropene	0.3759 0.4504	0.3978 0.4576	0.3965	0.4343	0.4402	Ave		0.4218			0.2000	7.4		20.0			
4-Methyl-2-pentanone (MIBK)	0.5629 0.5294	0.4923 0.4989	0.5114	0.5284	0.5301	Ave		0.5219			0.1000	4.5		20.0			
Toluene	0.8116 0.8677	0.8348 0.7940	0.8215	0.9217	0.8842	Ave		0.8479			0.4000	5.3		20.0			
trans-1,3-Dichloropropene	0.4591 0.5252	0.4635 0.4970	0.4816	0.5264	0.5172	Ave		0.4957			0.1000	5.7		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.: 410-177784-1 Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/21/2024 01:00 Calibration End Date: 05/21/2024 03:15 Calibration ID: 61942

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	0.5672 0.6087	0.5923 0.5511	0.5886	0.6308	0.6197	Ave		0.5941				4.8		20.0			
1,1,2-Trichloroethane	0.3316 0.3388	0.3247 0.3151	0.3276	0.3521	0.3387	Ave		0.3327			0.1000	3.6		20.0			
Tetrachloroethene	0.3130 0.3594	0.3609 0.3386	0.3301	0.3912	0.3773	Ave		0.3529			0.2000	7.7		20.0			
1,3-Dichloropropane	0.5052 0.5462	0.5106 0.5061	0.5048	0.5444	0.5487	Ave		0.5237				4.1		20.0			
2-Hexanone	0.4422 0.4857	0.4893 0.4251	0.4892	0.5016	0.5003	Ave		0.4762			0.1000	6.3		20.0			
Dibromochloromethane	0.3225 0.3831	0.3300 0.3621	0.3457	0.3769	0.3778	Ave		0.3569				6.9		20.0			
Ethylene Dibromide	0.3237 0.3615	0.3327 0.3438	0.3457	0.3631	0.3674	Ave		0.3483			0.1000	4.7		20.0			
1-Chlorohexane	0.5358 0.4462	0.4882 0.4165	0.4156	0.4880	0.4710	Ave		0.4659				9.3		20.0			
Chlorobenzene	0.8995 0.9804	0.9548 0.8978	0.9013	1.0080	0.9841	Ave		0.9466			0.5000	4.9		20.0			
1,1,1,2-Tetrachloroethane	0.3118 0.3906	0.3661 0.3561	0.3598	0.4025	0.3910	Ave		0.3683				8.3		20.0			
Ethylbenzene	1.5039 1.6840	1.6391 1.4686	1.5981	1.7954	1.7213	Ave		1.6301			0.1000	7.2		20.0			
m&p-Xylene	0.5768 0.6696	0.6611 0.6047	0.6359	0.7169	0.6851	Ave		0.6500			0.1000	7.4		20.0			
n-Butyl acrylate	0.7676 0.8362	0.8360 0.7492	0.8808	0.9122	0.8587	Ave		0.8344				7.0		20.0			
o-Xylene	0.6719 0.7274	0.7041 0.6582	0.6861	0.7670	0.7326	Ave		0.7068			0.3000	5.4		20.0			
Styrene	0.9754 1.0962	1.0804 1.0023	1.0442	1.1451	1.1014	Ave		1.0636			0.3000	5.6		20.0			
Bromoform	0.2688 0.2957	0.2655 0.2810	0.2611	0.2911	0.2901	Ave		0.2790			0.1000	5.0		20.0			
Isopropylbenzene	1.5015 1.7249	1.7199 1.4882	1.6545	1.8670	1.7706	Ave		1.6752			0.1000	8.3		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
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1 Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/21/2024 01:00 Calibration End Date: 05/21/2024 03:15 Calibration ID: 61942

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	0.2375 0.3355	0.3334 0.3157	0.3092	0.3313	0.3336	Ave		0.3137				11.2		20.0			
1,1,2,2-Tetrachloroethane	1.0899 1.1478	1.0835 1.0295	1.0416	1.1280	1.1180	Ave		1.0912			0.3000	4.0		20.0			
Bromobenzene	0.6505 0.7664	0.6736 0.7248	0.6797	0.7549	0.7423	Ave		0.7132				6.3		20.0			
trans-1,4-Dichloro-2-butene	0.2687 0.3071	0.2865 0.2764	0.2895	0.3087	0.3065	Ave		0.2919				5.5		20.0			
1,2,3-Trichloropropane	0.2952 0.3321	0.3117 0.2940	0.3030	0.3169	0.3201	Ave		0.3104				4.5		20.0			
N-Propylbenzene	3.0861 3.5979	3.4002 3.0057	3.2475	3.6940	3.5903	Ave		3.3745				8.0		20.0			
2-Chlorotoluene	0.6549 0.7909	0.7393 0.7291	0.6795	0.7824	0.7832	Ave		0.7370				7.3		20.0			
1,3,5-Trimethylbenzene	2.2981 2.8425	2.5608 2.4621	2.4364	2.8404	2.7862	Ave		2.6038				8.4		20.0			
4-Chlorotoluene	0.6662 0.7534	0.7142 0.7062	0.6741	0.7326	0.7401	Ave		0.7124				4.6		20.0			
tert-Butylbenzene	0.4188 0.5658	0.4750 0.5246	0.4553	0.5472	0.5423	Ave		0.5041				10.9		20.0			
1,2,4-Trimethylbenzene	2.3740 2.8725	2.6273 2.4773	2.4817	2.8971	2.8205	Ave		2.6501				8.1		20.0			
sec-Butylbenzene	2.8474 3.6113	3.2886 3.0331	3.1092	3.6219	3.5816	Ave		3.2990				9.5		20.0			
1,3-Dichlorobenzene	1.2762 1.4766	1.3930 1.3555	1.3588	1.5022	1.4714	Ave		1.4048			0.6000	5.8		20.0			
p-Isopropyltoluene	2.6131 3.1911	2.8575 2.6985	2.7675	3.1686	3.1359	Ave		2.9189				8.3		20.0			
1,4-Dichlorobenzene	1.2813 1.4752	1.4495 1.3612	1.3687	1.5138	1.4665	Ave		1.4166			0.5000	5.8		20.0			
1,2,3-Trimethylbenzene	2.7144 3.0862	2.7747 2.6296	2.6869	3.0849	3.0188	Ave		2.8565				7.0		20.0			
Benzyl chloride	2.0279 2.2325	2.1239 1.9627	2.0290	2.2027	2.2255	Ave		2.1149				5.2		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.: 410-177784-1 Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/21/2024 01:00 Calibration End Date: 05/21/2024 03:15 Calibration ID: 61942

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	1.5585 1.8811	1.7141 1.6626	1.6381	1.8912	1.8513	Ave		1.7424				7.6		20.0			
1,4-Diethylbenzene	1.6391 1.9382	1.8376 1.7087	1.7463	1.9841	1.9026	Ave		1.8224				7.0		20.0			
n-Butylbenzene	1.3000 1.5554	1.4875 1.3956	1.3947	1.5992	1.5458	Ave		1.4683				7.4		20.0			
1,2-Dichlorobenzene	1.4396 1.5754	1.4778 1.4184	1.4393	1.5855	1.5538	Ave		1.4985			0.4000	4.7		20.0			
1,2-Diethylbenzene	1.2755 1.6367	1.3923 1.4394	1.3670	1.5914	1.5555	Ave		1.4654				9.0		20.0			
1,2-Dibromo-3-Chloropropane	0.3166 0.3456	0.3317 0.3107	0.3137	0.3366	0.3357	Ave		0.3272			0.0500	4.1		20.0			
1,3,5-Trichlorobenzene	1.0526 1.2597	1.1881 1.1091	1.1334	1.2676	1.2366	Ave		1.1782				7.0		20.0			
1,2,4-Trichlorobenzene	1.0876 1.2659	1.1674 1.0930	1.1464	1.2555	1.2159	Ave		1.1759			0.2000	6.2		20.0			
2-Ethylhexyl acrylate	0.9005 1.2135	0.8972 1.0695	0.8988	1.0403	1.1154	Ave		1.0193				12.2		20.0			
Hexachlorobutadiene	0.3650 0.5078	0.4473 0.4552	0.4339	0.4869	0.4878	Ave		0.4548				10.4		20.0			
Naphthalene	4.1600 4.6267	4.3918 3.5730	4.3813	4.6711	4.5095	Ave		4.3305				8.7		20.0			
1,2,3-Trichlorobenzene	1.0949 1.2575	1.1722 1.0584	1.1378	1.2460	1.2080	Ave		1.1678				6.4		20.0			
2-Methylnaphthalene	1.7588 2.6557	2.0588 2.0605	2.2253	2.4370	2.4856	Ave		2.2403				13.7		20.0			
Dibromofluoromethane (Surr)	0.2602 0.2474	0.2534 0.2457	0.2566	0.2540	0.2485	Ave		0.2523				2.1		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0619 0.0616	0.0612 0.0617	0.0622	0.0614	0.0602	Ave		0.0615				1.1		20.0			
Toluene-d8 (Surr)	1.3664 1.3291	1.3779 1.2760	1.3531	1.3705	1.3454	Ave		1.3455				2.6		20.0			
4-Bromofluorobenzene (Surr)	0.5015 0.4764	0.4955 0.4851	0.5012	0.4880	0.4941	Ave		0.4917				1.9		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.: 410-177784-1 | Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 | GC Column: R-624SilMS ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/21/2024 01:00 | Calibration End Date: 05/21/2024 03:15 | Calibration ID: 61942

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-508211/12	4Y20X11.D
Level 2	IC 410-508211/13	4Y20X12.D
Level 3	IC 410-508211/14	4Y20X13.D
Level 4	IC 410-508211/15	4Y20X14.D
Level 5	ICIS 410-508211/16	4Y20X15.D
Level 6	IC 410-508211/17	4Y20X16.D
Level 7	IC 410-508211/18	4Y20X17.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	10254 1077291	46820 3421496	115377	229875	564095	1.00 100	4.00 300	10.0	20.0	50.0
Chloromethane	FB	Ave	13052 1161030	51236 3458593	126018	238588	577606	1.00 100	4.00 300	10.0	20.0	50.0
Vinyl chloride	FB	Ave	10029 1123203	47548 3387587	119374	233390	561770	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Butadiene	FB	Ave	9652 1056076	50547 3241671	121254	224927	549055	1.00 100	4.00 300	10.0	20.0	50.0
Bromomethane	FB	Ave	9302 801370	32347 2367110	88088	167482	398785	1.00 100	4.00 300	10.0	20.0	50.0
Chloroethane	FB	Ave	5735 594614	25355 1777842	63542	123629	297214	1.00 100	4.00 300	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	15227 1642791	70306 4866301	174586	339449	817631	1.00 100	4.00 300	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	10129 1174663	48634 3724884	124720	248070	606813	1.00 100	4.00 300	10.0	20.0	50.0
n-Pentane	FB	Ave	9820 1002489	41674 3330065	92440	208456	509688	1.00 100	4.00 300	10.0	20.0	50.0
Ethanol	TBAd10	Ave	12754 451296	39230 1298890	89943	180492	222785	62.5 2500	250 7500	500	1000	1250
Freon 123a	FB	Ave	8417 814453	34516 2520894	90493	171023	414601	1.00 100	4.00 300	10.0	20.0	50.0
Acrolein	TBAd10	Ave	26201 2588376	100426 8044139	254753	509050	1292814	10.0 1002	40.1 3007	100	200	501
1,1-Dichloroethene	FB	Ave	5237 570172	24113 1864217	57135	122704	294228	1.00 100	4.00 300	10.0	20.0	50.0
Acetone	TBAd10	Ave	2868	12128	29298	55370	142310	2.00	8.00	20.0	40.0	100

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1 Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/21/2024 01:00 Calibration End Date: 05/21/2024 03:15 Calibration ID: 61942

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
			280635	839357				200	600			
Freon 113	FB	Ave	5617 656641	27873 2161383	61383	141086	349417	1.00 100	4.00 300	10.0	20.0	50.0
2-Propanol	TBAd10	Ave	8271 700370	29713 1823584	72835	140217	343735	5.00 500	20.0 1500	50.0	100	250
Methyl iodide	FB	Ave	11045 1242946	49187 3845970	121672	255333	624893	1.00 100	4.00 300	10.0	20.0	50.0
Carbon disulfide	FB	Ave	19722 2174801	87842 6943086	211599	456853	1116321	1.00 100	4.00 300	10.0	20.0	50.0
Methyl acetate	FB	Ave	9511 857220	35233 2525058	88499	179488	430789	1.00 100	4.00 300	10.0	20.0	50.0
Allyl chloride	FB	Ave	9857 949120	38786 2902532	93822	199132	480858	1.00 100	4.00 300	10.0	20.0	50.0
Methylene Chloride	FB	Ave	6986 725380	29701 2282317	71788	146922	360721	1.00 100	4.00 300	10.0	20.0	50.0
t-Butyl alcohol	TBAd10	Ave	14421 1183551	49432 3230361	119566	240866	594104	5.00 500	20.0 1500	50.0	100	250
Acrylonitrile	FB	Ave	11490 1159648	46150 3473452	116277	247651	592904	2.50 250	10.0 750	25.0	50.0	125
Methyl tert-butyl ether	FB	Ave	20981 2180047	86744 6506364	214633	446807	1102118	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	6435 601750	25303 1838583	60255	128605	306391	1.00 100	4.00 300	10.0	20.0	50.0
n-Hexane	FB	Ave	8864 787778	33837 2453310	76688	173930	422065	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloroethane	FB	Ave	9792 1069818	44442 3239282	105232	228348	555348	1.00 100	4.00 300	10.0	20.0	50.0
Isopropyl ether	FB	Ave	19551 2107785	84468 6366499	210063	426439	1064212	1.00 100	4.00 300	10.0	20.0	50.0
2-Chloro-1,3-butadiene	FB	Ave	8299 886732	37204 2675524	89001	192460	462978	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl t-butyl ether	FB	Ave	19630 2080849	82605 6276000	205205	427647	1045210	1.00 100	4.00 300	10.0	20.0	50.0
2-Butanone (MEK)	FB	Ave	11494 1324867	54436 4021107	139326	271607	702878	2.00 200	8.00 600	20.0	40.0	100
cis-1,2-Dichloroethene	FB	Ave	7153 700756	29284 2122120	72981	148544	358903	1.00 100	4.00 300	10.0	20.0	50.0
2,2-Dichloropropane	FB	Ave	11551 1020919	43014 3162044	103107	217765	509244	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.: 410-177784-1 Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/21/2024 01:00 Calibration End Date: 05/21/2024 03:15 Calibration ID: 61942

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	11091 1124578	40944 3380474	111384	223879	560472	5.00 500	20.0 1500	50.0	100	250
Methyl acrylate	FB	Ave	13252 1191437	47096 3581759	117488	239034	601961	1.00 100	4.00 300	10.0	20.0	50.0
Methacrylonitrile	FB	Ave	11538 1159617	46788 3491756	119775	237694	588323	2.50 250	10.0 750	25.0	50.0	125
Bromochloromethane	FB	Ave	3485 369291	14833 1125849	38184	77542	186928	1.00 100	4.00 300	10.0	20.0	50.0
Tetrahydrofuran	TBAd10	Ave	10485 975103	39566 2916793	97183	196800	499278	5.00 500	20.0 1500	50.0	100	250
Chloroform	FB	Lin2	34690 1101646	69168 3242334	135190	251216	570089	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	9396 1006740	40866 3144885	98556	206574	510993	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexane	FB	Ave	11447 1186057	51034 3872253	115577	259104	627459	1.00 100	4.00 300	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	6549 849946	34154 2718274	80226	176660	434752	1.00 100	4.00 300	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	8020 845646	34655 2572884	84149	179040	435082	1.00 100	4.00 300	10.0	20.0	50.0
Isobutyl alcohol	TBAd10	Ave	11662 966903	39843 2745145	93568	190463	483723	12.5 1250	50.0 3750	125	250	625
Benzene	FB	Ave	24635 2615988	104196 7757751	258680	540155	1321837	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	7819 864345	33710 2526600	85539	173682	424901	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl methyl ether	FB	Ave	19442 2089568	80519 6296084	206444	418610	1041836	1.00 100	4.00 300	10.0	20.0	50.0
n-Heptane	FB	Ave	9359 911262	37284 2727406	85576	188320	479468	1.00 100	4.00 300	10.0	20.0	50.0
n-Butanol	TBAd10	Ave	8665 811017	29405 2319144	76586	156206	399561	12.5 1250	50.0 3750	125	250	625
Trichloroethene	FB	Ave	6330 683300	25448 2084897	65491	139759	339522	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl acrylate	FB	Ave	12894 1246164	45692 3864674	120437	233315	614599	1.000 100.0	4.00 300	10.00	20.0	50.0
Methylcyclohexane	FB	Ave	10893	50136	114573	255822	645944	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.: 410-177784-1 Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/21/2024 01:00 Calibration End Date: 05/21/2024 03:15 Calibration ID: 61942

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
			1221346	3990866				100	300			
1,2-Dichloropropane	FB	Ave	6113 704171	26464 2171790	66145	139073	354009	1.00 100	4.00 300	10.0	20.0	50.0
t-Amyl ethyl ether	FB	Ave	9081 1031693	37856 3231932	97474	208392	504882	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dioxane	TBAd10	Ave	+++++ 203864	7483 582296	21266	40214	100772	+++++ 1250	50.0 3750	125	250	625
Methyl methacrylate	FB	Ave	7103 687753	25803 2151580	65903	136594	347156	1.00 100	4.00 300	10.0	20.0	50.0
Dibromomethane	FB	Ave	4410 484577	18866 1478837	48229	96815	240210	1.00 100	4.00 300	10.0	20.0	50.0
Bromodichloromethane	FB	Ave	7960 855156	31606 2654395	80194	169422	419908	1.00 100	4.00 300	10.0	20.0	50.0
2-Nitropropane	TBAd10	Ave	17140 1589998	58152 4837283	150463	303700	795993	5.00 500	20.0 1500	50.0	100	250
2-Chloroethyl vinyl ether	FB	Ave	4185 528804	18347 1682992	48170	97626	255709	1.00 100	4.00 300	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	9462 1127430	40693 3571756	102343	216136	554164	1.00 100	4.00 300	10.0	20.0	50.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	28341 2650315	100722 7788902	264019	525948	1334771	2.00 200	8.00 600	20.0	40.0	100
Toluene	CBZd5	Ave	15150 1687530	61780 5237069	158893	338860	846997	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBZd5	Ave	8570 1021466	34299 3277754	93156	193522	495440	1.00 100	4.00 300	10.0	20.0	50.0
Ethyl methacrylate	CBZd5	Ave	10588 1183744	43832 3635039	113844	231907	593679	1.00 100	4.00 300	10.0	20.0	50.0
1,1,2-Trichloroethane	CBZd5	Ave	6191 658936	24032 2078020	63369	129431	324413	1.00 100	4.00 300	10.0	20.0	50.0
Tetrachloroethene	CBZd5	Ave	5843 698972	26711 2233420	63850	143821	361461	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichloropropane	CBZd5	Ave	9431 1062267	37790 3337821	97643	200124	525666	1.00 100	4.00 300	10.0	20.0	50.0
2-Hexanone	CBZd5	Ave	16511 1888980	72421 5608315	189253	368839	958484	2.00 200	8.00 600	20.0	40.0	100
Dibromochloromethane	CBZd5	Ave	6020 745116	24419 2388482	66871	138568	361914	1.00 100	4.00 300	10.0	20.0	50.0
Ethylene Dibromide	CBZd5	Ave	6042 703109	24625 2267910	66864	133486	351986	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.: 410-177784-1 Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/21/2024 01:00 Calibration End Date: 05/21/2024 03:15 Calibration ID: 61942

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	10002 867762	36131 2746915	80394	179397	451158	1.00 100	4.00 300	10.0	20.0	50.0
Chlorobenzene	CBZd5	Ave	16791 1906637	70660 5921701	174328	370579	942749	1.00 100	4.00 300	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBZd5	Ave	5821 759534	27094 2348583	69602	147981	374568	1.00 100	4.00 300	10.0	20.0	50.0
Ethylbenzene	CBZd5	Ave	28074 3274962	121302 9686450	309108	660065	1648946	1.00 100	4.00 300	10.0	20.0	50.0
m&p-Xylene	CBZd5	Ave	21534 2604504	97857 7976283	245982	527154	1312547	2.00 200	8.00 600	20.0	40.0	100
n-Butyl acrylate	CBZd5	Ave	14335 1626932	61899 4943610	170436	335519	823002	1.00 100	4.00 300	10.0	20.0	50.0
o-Xylene	CBZd5	Ave	12543 1414664	52107 4341549	132710	281993	701811	1.00 100	4.00 300	10.0	20.0	50.0
Styrene	CBZd5	Ave	18208 2131862	79955 6611091	201963	420966	1055038	1.00 100	4.00 300	10.0	20.0	50.0
Bromoform	CBZd5	Ave	5017 575000	19647 1853570	50498	107009	277902	1.00 100	4.00 300	10.0	20.0	50.0
Isopropylbenzene	CBZd5	Ave	28029 3354460	127282 9815623	320010	686374	1696117	1.00 100	4.00 300	10.0	20.0	50.0
Cyclohexanone	TBAd10	Ave	28981 938204	151181 2791452	191001	380073	477691	50.0 1250	200 3750	250	500	625
1,1,2,2-Tetrachloroethane	DCBd4	Ave	12136 1252300	48826 3841903	122624	247914	622178	1.00 100	4.00 300	10.0	20.0	50.0
Bromobenzene	DCBd4	Ave	7243 836151	30355 2704838	80021	165907	413075	1.00 100	4.00 300	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd4	Ave	7481 837673	32274 2578732	85217	169617	426455	2.50 250	10.0 750	25.0	50.0	125
1,2,3-Trichloropropane	DCBd4	Ave	3287 362342	14046 1097262	35669	69645	178139	1.00 100	4.00 300	10.0	20.0	50.0
N-Propylbenzene	DCBd4	Ave	34364 3925477	153228 11216992	382324	811875	1998052	1.00 100	4.00 300	10.0	20.0	50.0
2-Chlorotoluene	DCBd4	Ave	7292 862910	33315 2721015	79995	171964	435843	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCBd4	Ave	25589 3101342	115400 9188107	286833	624275	1550544	1.00 100	4.00 300	10.0	20.0	50.0
4-Chlorotoluene	DCBd4	Ave	7418 822014	32183 2635443	79357	161022	411867	1.00 100	4.00 300	10.0	20.0	50.0
tert-Butylbenzene	DCBd4	Ave	4663	21404	53607	120262	301796	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.: 410-177784-1 | Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 | GC Column: R-624SilMS ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 05/21/2024 01:00 | Calibration End Date: 05/21/2024 03:15 | Calibration ID: 61942

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
			617358	1957882				100	300			
1,2,4-Trimethylbenzene	DCBd4	Ave	26434 3134122	118398 9245064	292174	636738	1569649	1.00 100	4.00 300	10.0	20.0	50.0
sec-Butylbenzene	DCBd4	Ave	31706 3940097	148200 11319094	366046	796016	1993222	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd4	Ave	14211 1611013	62774 5058564	159969	330165	818862	1.00 100	4.00 300	10.0	20.0	50.0
p-Isopropyltoluene	DCBd4	Ave	29097 3481636	128769 10070341	325812	696395	1745143	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Dichlorobenzene	DCBd4	Ave	14267 1609568	65319 5079850	161133	332699	816119	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trimethylbenzene	DCBd4	Ave	30225 3367175	125041 9813122	316327	678008	1680029	1.00 100	4.00 300	10.0	20.0	50.0
Benzyl chloride	DCBd4	Ave	22581 2435776	95711 7324672	238878	484109	1238531	1.00 100	4.00 300	10.0	20.0	50.0
1,3-Diethylbenzene	DCBd4	Ave	17354 2052402	77243 6204705	192852	415654	1030271	1.00 100	4.00 300	10.0	20.0	50.0
1,4-Diethylbenzene	DCBd4	Ave	18251 2114708	82808 6376581	205596	436079	1058839	1.00 100	4.00 300	10.0	20.0	50.0
n-Butylbenzene	DCBd4	Ave	14475 1697004	67032 5208030	164197	351478	860247	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dichlorobenzene	DCBd4	Ave	16030 1718906	66594 5293309	169443	348453	864712	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Diethylbenzene	DCBd4	Ave	14203 1785717	62742 5371496	160941	349755	865678	1.00 100	4.00 300	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	3525 377092	14946 1159620	36935	73973	186841	1.00 100	4.00 300	10.0	20.0	50.0
1,3,5-Trichlorobenzene	DCBd4	Ave	11721 1374412	53543 4138949	133437	278587	688170	1.00 100	4.00 300	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd4	Ave	12110 1381186	52606 4079028	134967	275929	676640	1.00 100	4.00 300	10.0	20.0	50.0
2-Ethylhexyl acrylate	DCBd4	Ave	10024 1323604	40419 3990147	105786	228563	620522	1.000 100.0	4.00 300	10.00	20.0	50.0
Hexachlorobutadiene	DCBd4	Ave	4064 554066	20155 1698877	51081	107004	271483	1.00 100	4.00 300	10.0	20.0	50.0
Naphthalene	DCBd4	Ave	46322 5048011	197911 13334001	515807	1026618	2509616	1.00 100	4.00 300	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd4	Ave	12192 1372061	52826 3949881	133956	273841	672243	1.00 100	4.00 300	10.0	20.0	50.0
2-Methylnaphthalene	DCBd4	Ave	19584	92779	261990	535610	1383257	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.: 410-177784-1 Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/21/2024 01:00 Calibration End Date: 05/21/2024 03:15 Calibration ID: 61942

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
			2897563	7689628				100	300			
Dibromofluoromethane (Surr)	FB	Ave	327455 309646	324104 319619	331242	316080	312899	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	77935 77043	78284 80301	80312	76431	75737	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBZd5	Ave	1275334 1292414	1274633 1402727	1308542	1259612	1288817	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	CBZd5	Ave	468091 463254	458377 533272	484725	448475	473305	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1 Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/21/2024 01:00 Calibration End Date: 05/21/2024 03:15 Calibration ID: 61942

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-508211/12	4Y20X11.D
Level 2	IC 410-508211/13	4Y20X12.D
Level 3	IC 410-508211/14	4Y20X13.D
Level 4	IC 410-508211/15	4Y20X14.D
Level 5	ICIS 410-508211/16	4Y20X15.D
Level 6	IC 410-508211/17	4Y20X16.D
Level 7	IC 410-508211/18	4Y20X17.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	-7.7 -0.7	3.7	1.2	4.6	1.5	-2.5	50 30	30	30	30	30	30
Chloromethane	8.3 -7.5	4.6	1.9	0.1	-4.2	-3.2	50 30	30	30	30	30	30
Vinyl chloride	-10.7 -2.7	4.2	3.6	5.1	0.0	0.6	50 30	30	30	30	30	30
1,3-Butadiene	-12.6 -5.4	12.6	7.0	3.0	-0.6	-3.9	50 30	30	30	30	30	30
Bromomethane	12.3 -7.9	-3.9	3.7	2.3	-3.7	-2.7	50 30	30	30	30	30	30
Chloroethane	-4.6 -4.6	3.8	3.1	4.0	-1.1	-0.5	50 30	30	30	30	30	30
Dichlorofluoromethane	-7.5 -4.7	5.0	3.4	4.3	-0.7	0.3	50 30	30	30	30	30	30
Trichlorofluoromethane	-14.3 1.6	1.2	2.9	6.1	2.6	-0.1	50 30	30	30	30	30	30
n-Pentane	-2.7 6.4	1.6	-10.7	4.5	1.0	-0.1	50 30	30	30	30	30	30
Ethanol	9.1 -4.1	-9.7	-4.9	2.7	1.5	5.3	50 30	30	30	30	30	30
Freon 123a	-0.1 -3.5	0.8	4.7	2.6	-1.6	-2.8	50 30	30	30	30	30	30
Acrolein	-3.0 2.8	0.1	-6.8	0.3	2.0	4.6	50 30	30	30	30	30	30
1,1-Dichloroethene	-9.7 3.7	2.4	-3.9	7.1	1.5	-1.1	50 30	30	30	30	30	30
Acetone	-4.2 -3.3	9.0	-3.3	-1.6	1.2	2.3	50 30	30	30	30	30	30
Freon 113	-14.8 5.7	4.0	-9.2	8.2	6.0	0.1	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.: 410-177784-1 Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/21/2024 01:00 Calibration End Date: 05/21/2024 03:15 Calibration ID: 61942

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	11.0 -15.6	7.3	-3.5	0.1	-1.8	2.5	50 30	30	30	30	30	30
Methyl iodide	-9.4 1.8	-0.7	-2.7	6.0	2.5	2.5	50 30	30	30	30	30	30
Carbon disulfide	-9.0 3.3	-0.2	-4.8	6.7	3.0	0.9	50 30	30	30	30	30	30
Methyl acetate	8.7 -7.0	-0.9	-1.4	3.7	-1.6	-1.5	50 30	30	30	30	30	30
Allyl chloride	2.8 -2.4	-0.5	-4.6	5.0	0.2	-0.5	50 30	30	30	30	30	30
Methylene Chloride	-3.3 1.8	1.1	-3.1	2.8	-0.2	0.9	50 30	30	30	30	30	30
t-Butyl alcohol	13.3 -12.4	4.6	-7.2	0.7	-0.5	1.5	50 30	30	30	30	30	30
Acrylonitrile	-1.2 -3.7	-2.4	-2.5	7.7	1.9	0.2	50 30	30	30	30	30	30
Methyl tert-butyl ether	-2.6 -2.6	-0.9	-2.8	4.9	2.3	1.8	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	4.4 -3.8	1.0	-4.7	5.5	-0.6	-1.8	50 30	30	30	30	30	30
n-Hexane	7.5 -4.1	0.9	-9.3	6.7	2.3	-4.0	50 30	30	30	30	30	30
1,1-Dichloroethane	-8.4 -2.3	2.3	-4.0	8.0	3.8	0.6	50 30	30	30	30	30	30
Isopropyl ether	-5.9 -1.2	0.1	-1.4	3.8	2.4	2.0	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-7.3 -3.6	2.3	-3.1	8.7	3.4	-0.4	50 30	30	30	30	30	30
Ethyl t-butyl ether	-4.4 -1.4	-1.0	-2.5	5.4	1.8	2.0	50 30	30	30	30	30	30
2-Butanone (MEK)	-13.1 -1.9	1.3	2.8	3.9	6.3	0.8	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	0.0 -4.3	0.8	-0.5	5.1	0.4	-1.5	50 30	30	30	30	30	30
2,2-Dichloropropane	9.5 -3.3	0.3	-4.7	4.4	-3.5	-2.7	50 30	30	30	30	30	30
Propionitrile	-4.0 0.9	-4.7	-4.8	3.0	3.3	6.2	50 30	30	30	30	30	30
Methyl acrylate	10.5 -3.7	-3.4	-4.5	0.8	0.4	-0.1	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.: 410-177784-1 Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/21/2024 01:00 Calibration End Date: 05/21/2024 03:15 Calibration ID: 61942

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	-0.8 -3.2	-1.0	0.4	3.3	1.1	0.2	50 30	30	30	30	30	30
Bromochloromethane	-5.7 -1.7	-1.2	0.8	6.2	1.2	0.5	50 30	30	30	30	30	30
Tetrahydrofuran	1.2 -2.9	2.7	-7.4	1.0	2.6	2.7	50 30	30	30	30	30	30
Chloroform	-0.5 -4.9	1.4	-1.0	5.5	0.1	-0.6	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-6.0 1.4	0.6	-3.9	4.5	2.2	1.2	50 30	30	30	30	30	30
Cyclohexane	-6.1 2.4	3.0	-7.6	7.5	2.9	-2.2	50 30	30	30	30	30	30
Carbon tetrachloride	-20.6 6.3	1.9	-5.1	8.4	5.4	3.7	50 30	30	30	30	30	30
1,1-Dichloropropene	-5.3 -2.1	0.6	-3.1	6.9	2.7	0.4	50 30	30	30	30	30	30
Isobutyl alcohol	13.2 -8.0	4.1	-10.2	-1.6	0.1	2.4	50 30	30	30	30	30	30
Benzene	-4.5 -3.0	-0.6	-2.2	5.9	2.5	2.0	50 30	30	30	30	30	30
1,2-Dichloroethane	-6.6 -2.6	-0.9	-0.3	5.0	1.5	3.9	50 30	30	30	30	30	30
t-Amyl methyl ether	-4.6 -0.4	-2.8	-1.2	3.9	2.2	3.1	50 30	30	30	30	30	30
n-Heptane	2.4 -3.7	0.4	-8.7	4.3	4.9	0.3	50 30	30	30	30	30	30
n-Butanol	4.9 -3.1	-4.2	-8.4	0.6	3.1	7.1	50 30	30	30	30	30	30
Trichloroethene	-4.6 1.4	-5.6	-3.7	6.6	2.3	3.6	50 30	30	30	30	30	30
Ethyl acrylate	6.2 2.7	-7.4	-3.2	-2.8	1.2	3.2	50 30	30	30	30	30	30
Methylcyclohexane	-10.7 5.5	1.1	-8.4	6.1	5.9	0.7	50 30	30	30	30	30	30
1,2-Dichloropropane	-9.5 3.7	-3.6	-4.5	4.2	4.8	4.9	50 30	30	30	30	30	30
t-Amyl ethyl ether	-8.3 5.2	-6.0	-4.0	6.4	1.9	4.7	50 30	30	30	30	30	30
1,4-Dioxane	+++++ -4.6	-4.4	-0.2	1.6	2.0	5.6	30	50	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1 Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/21/2024 01:00 Calibration End Date: 05/21/2024 03:15 Calibration ID: 61942

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Methyl methacrylate	4.5 2.1	-6.6	-5.5	1.6	2.1	1.7	50 30	30	30	30	30	30
Dibromomethane	-6.7 0.9	-1.8	-0.5	3.6	1.6	3.1	50 30	30	30	30	30	30
Bromodichloromethane	-3.4 3.9	-5.6	-5.1	4.0	1.9	4.4	50 30	30	30	30	30	30
2-Nitropropane	4.5 1.8	-4.6	-9.4	-1.5	3.4	5.8	50 30	30	30	30	30	30
2-Chloroethyl vinyl ether	-14.3 11.1	-7.6	-3.8	1.1	4.7	8.9	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-10.9 8.5	-5.7	-6.0	3.0	4.4	6.8	50 30	30	30	30	30	30
4-Methyl-2-pentanone (MIBK)	7.9 -4.4	-5.7	-2.0	1.2	1.6	1.4	50 30	30	30	30	30	30
Toluene	-4.3 -6.4	-1.5	-3.1	8.7	4.3	2.3	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-7.4 0.3	-6.5	-2.8	6.2	4.3	6.0	50 30	30	30	30	30	30
Ethyl methacrylate	-4.5 -7.2	-0.3	-0.9	6.2	4.3	2.5	50 30	30	30	30	30	30
1,1,2-Trichloroethane	-0.3 -5.3	-2.4	-1.5	5.8	1.8	1.9	50 30	30	30	30	30	30
Tetrachloroethene	-11.3 -4.1	2.3	-6.5	10.8	6.9	1.8	50 30	30	30	30	30	30
1,3-Dichloropropane	-3.5 -3.4	-2.5	-3.6	3.9	4.8	4.3	50 30	30	30	30	30	30
2-Hexanone	-7.1 -10.7	2.7	2.7	5.3	5.1	2.0	50 30	30	30	30	30	30
Dibromochloromethane	-9.6 1.5	-7.5	-3.1	5.6	5.9	7.4	50 30	30	30	30	30	30
Ethylene Dibromide	-7.1 -1.3	-4.5	-0.7	4.3	5.5	3.8	50 30	30	30	30	30	30
1-Chlorohexane	15.0 -10.6	4.8	-10.8	4.7	1.1	-4.2	50 30	30	30	30	30	30
Chlorobenzene	-5.0 -5.2	0.9	-4.8	6.5	4.0	3.6	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-15.3 -3.3	-0.6	-2.3	9.3	6.2	6.0	50 30	30	30	30	30	30
Ethylbenzene	-7.7 -9.9	0.6	-2.0	10.1	5.6	3.3	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.: 410-177784-1 Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/21/2024 01:00 Calibration End Date: 05/21/2024 03:15 Calibration ID: 61942

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	-11.3 -7.0	1.7	-2.2	10.3	5.4	3.0	50 30	30	30	30	30	30
n-Butyl acrylate	-8.0 -10.2	0.2	5.6	9.3	2.9	0.2	50 30	30	30	30	30	30
o-Xylene	-4.9 -6.9	-0.4	-2.9	8.5	3.7	2.9	50 30	30	30	30	30	30
Styrene	-8.3 -5.8	1.6	-1.8	7.7	3.6	3.1	50 30	30	30	30	30	30
Bromoform	-3.7 0.7	-4.9	-6.4	4.3	4.0	6.0	50 30	30	30	30	30	30
Isopropylbenzene	-10.4 -11.2	2.7	-1.2	11.4	5.7	3.0	50 30	30	30	30	30	30
Cyclohexanone	-24.3 0.6	6.3	-1.4	5.6	6.3	6.9	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-0.1 -5.7	-0.7	-4.5	3.4	2.5	5.2	50 30	30	30	30	30	30
Bromobenzene	-8.8 1.6	-5.5	-4.7	5.9	4.1	7.5	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-7.9 -5.3	-1.9	-0.8	5.7	5.0	5.2	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-4.9 -5.3	0.4	-2.4	2.1	3.1	7.0	50 30	30	30	30	30	30
N-Propylbenzene	-8.5 -10.9	0.8	-3.8	9.5	6.4	6.6	50 30	30	30	30	30	30
2-Chlorotoluene	-11.1 -1.1	0.3	-7.8	6.2	6.3	7.3	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-11.7 -5.4	-1.7	-6.4	9.1	7.0	9.2	50 30	30	30	30	30	30
4-Chlorotoluene	-6.5 -0.9	0.2	-5.4	2.8	3.9	5.8	50 30	30	30	30	30	30
tert-Butylbenzene	-16.9 4.1	-5.8	-9.7	8.5	7.6	12.2	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-10.4 -6.5	-0.9	-6.4	9.3	6.4	8.4	50 30	30	30	30	30	30
sec-Butylbenzene	-13.7 -8.1	-0.3	-5.8	9.8	8.6	9.5	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-9.2 -3.5	-0.8	-3.3	6.9	4.7	5.1	50 30	30	30	30	30	30
p-Isopropyltoluene	-10.5 -7.6	-2.1	-5.2	8.6	7.4	9.3	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.: 410-177784-1 Analy Batch No.: 508211

SDG No.:

Instrument ID: 23297 GC Column: R-624SilMS 3 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/21/2024 01:00 Calibration End Date: 05/21/2024 03:15 Calibration ID: 61942

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	-9.6 -3.9	2.3	-3.4	6.9	3.5	4.1	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-5.0 -7.9	-2.9	-5.9	8.0	5.7	8.0	50 30	30	30	30	30	30
Benzyl chloride	-4.1 -7.2	0.4	-4.1	4.2	5.2	5.6	50 30	30	30	30	30	30
1,3-Diethylbenzene	-10.6 -4.6	-1.6	-6.0	8.5	6.2	8.0	50 30	30	30	30	30	30
1,4-Diethylbenzene	-10.1 -6.2	0.8	-4.2	8.9	4.4	6.4	50 30	30	30	30	30	30
n-Butylbenzene	-11.5 -5.0	1.3	-5.0	8.9	5.3	5.9	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-3.9 -5.3	-1.4	-4.0	5.8	3.7	5.1	50 30	30	30	30	30	30
1,2-Diethylbenzene	-13.0 -1.8	-5.0	-6.7	8.6	6.2	11.7	50 30	30	30	30	30	30
1,2-Dibromo-3-Chloropropane	-3.3 -5.0	1.4	-4.1	2.9	2.6	5.6	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-10.7 -5.9	0.8	-3.8	7.6	5.0	6.9	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-7.5 -7.1	-0.7	-2.5	6.8	3.4	7.7	50 30	30	30	30	30	30
2-Ethylhexyl acrylate	-11.7 4.9	-12.0	-11.8	2.1	9.4	19.1	50 30	30	30	30	30	30
Hexachlorobutadiene	-19.8 0.1	-1.7	-4.6	7.0	7.3	11.6	50 30	30	30	30	30	30
Naphthalene	-3.9 -17.5	1.4	1.2	7.9	4.1	6.8	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-6.2 -9.4	0.4	-2.6	6.7	3.4	7.7	50 30	30	30	30	30	30
2-Methylnaphthalene	-21.5 -8.0	-8.1	-0.7	8.8	11.0	18.5	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	3.1 -2.6	0.5	1.7	0.7	-1.5	-1.9	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	0.7 0.4	-0.4	1.2	-0.1	-2.1	0.2	50 30	30	30	30	30	30
Toluene-d8 (Surr)	1.6 -5.2	2.4	0.6	1.9	0.0	-1.2	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	2.0 -1.3	0.8	1.9	-0.8	0.5	-3.1	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X11.D
Lims ID: IC v1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 21-May-2024 01:00:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0114468-012
Misc. Info.: IC 1
Operator ID: MEC29284 Instrument ID: 23297
Sublist: chrom-MSVoa_23297*sub95

Method: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 23-May-2024 08:34:40 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: UKAD Date: 21-May-2024 11:24:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.800	1.788	0.012	96	10254	1.00	0.9226	
4 Chloromethane	50	1.971	1.964	0.007	97	13052	1.00	1.08	
5 Vinyl chloride	62	2.080	2.068	0.012	87	10029	1.00	0.8928	
6 Butadiene	39	2.086	2.080	0.006	93	9652	1.00	0.8735	M
8 Bromomethane	94	2.384	2.378	0.006	88	9302	1.00	1.12	
9 Chloroethane	64	2.457	2.457	0.000	97	5735	1.00	0.9540	
10 Dichlorofluoromethane	67	2.682	2.676	0.006	96	15227	1.00	0.9246	
11 Trichlorofluoromethane	101	2.749	2.737	0.012	31	10129	1.00	0.8567	
12 Pentane	43	2.780	2.767	0.013	93	9820	1.00	0.9730	
13 Ethanol	45	2.865	2.877	-0.012	46	12754	62.5	68.2	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.047	3.047	0.000	17	8417	1.00	1.00	M
16 Acrolein	56	3.114	3.102	0.012	98	26201	10.0	9.72	
17 1,1-Dichloroethene	96	3.242	3.248	-0.006	86	5237	1.00	0.9034	
18 Acetone	58	3.273	3.254	0.019	98	2868	2.00	1.92	M
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.279	3.279	0.001	83	5617	1.00	0.8518	
21 Iodomethane	142	3.431	3.431	0.000	99	11045	1.00	0.9061	
20 Isopropyl alcohol	45	3.467	3.437	0.030	30	8271	5.00	5.55	
22 Carbon disulfide	76	3.528	3.528	0.000	99	19722	1.00	0.9103	
24 Methyl acetate	43	3.644	3.637	0.007	63	9511	1.00	1.09	M
26 3-Chloro-1-propene	41	3.668	3.668	0.000	92	9857	1.00	1.03	
27 Methylene Chloride	84	3.857	3.850	0.007	33	6986	1.00	0.9665	
* 28 t-Butyl alcohol-d10 (IS)	65	3.875	3.869	0.006	38	610243	250.0	250.0	
29 2-Methyl-2-propanol	59	3.960	3.984	-0.024	30	14421	5.00	5.67	
30 Acrylonitrile	53	4.161	4.136	0.025	86	11490	2.50	2.47	M
31 Methyl tert-butyl ether	73	4.234	4.209	0.025	96	20981	1.00	0.9739	
32 trans-1,2-Dichloroethene	96	4.234	4.221	0.013	88	6435	1.00	1.04	
34 Hexane	57	4.647	4.647	0.000	94	8864	1.00	1.07	
35 1,1-Dichloroethane	63	4.885	4.878	0.007	93	9792	1.00	0.9157	
37 Isopropyl ether	45	4.964	4.951	0.013	92	19551	1.00	0.9412	
38 2-Chloro-1,3-butadiene	53	5.000	4.988	0.012	91	8299	1.00	0.9269	

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	5.493	5.493	0.000	98	19630	1.00	0.9565	
40 2-Butanone (MEK)	43	5.712	5.706	0.006	86	11494	2.00	1.74	
41 cis-1,2-Dichloroethene	96	5.749	5.730	0.019	77	7153	1.00	1.00	
42 2,2-Dichloropropane	77	5.742	5.748	-0.006	87	11551	1.00	1.09	
44 Propionitrile	54	5.822	5.791	0.031	90	11091	5.00	4.80	M
45 Methyl acrylate	55	5.864	5.840	0.024	96	13252	1.00	1.11	
47 Methacrylonitrile	67	6.016	6.016	0.000	77	11538	2.50	2.48	
48 Chlorobromomethane	128	6.071	6.065	0.006	64	3485	1.00	0.9432	
49 Tetrahydrofuran	71	6.095	6.083	0.012	91	10485	5.00	5.06	
S 46 1,2-Dichloroethene, Total	100				0			2.04	
50 Chloroform	83	6.223	6.229	-0.006	93	34690	1.00	0.99	
$ 51 Dibromofluoromethane (Surr)	113	6.448	6.442	0.006	93	327455	50.0	51.6	
52 1,1,1-Trichloroethane	97	6.460	6.454	0.006	36	9396	1.00	0.9396	
53 Cyclohexane	56	6.552	6.558	-0.006	88	11447	1.00	0.9389	
54 Carbon tetrachloride	117	6.661	6.673	-0.012	80	6549	1.00	0.7942	
55 1,1-Dichloropropene	75	6.679	6.673	0.006	94	8020	1.00	0.9465	
56 Isobutyl alcohol	41	6.862	6.850	0.012	29	11662	12.5	14.2	M
$ 57 1,2-Dichloroethane-d4 (Surr)	102	6.904	6.904	0.000	79	77935	50.0	50.4	
58 Benzene	78	6.941	6.941	0.000	48	24635	1.00	0.9549	
59 1,2-Dichloroethane	62	7.008	7.008	0.000	81	7819	1.00	0.9344	
61 Tert-amyl methyl ether	73	7.142	7.142	0.000	98	19442	1.00	0.9536	
* 62 Fluorobenzene (IS)	96	7.355	7.355	0.000	99	1258715	50.0	50.0	
63 n-Heptane	43	7.385	7.379	0.006	36	9359	1.00	1.02	
64 n-Butanol	56	7.762	7.756	0.006	22	8665	12.5	13.1	M
66 Trichloroethene	95	7.847	7.841	0.006	96	6330	1.00	0.9543	
67 Ethyl acrylate	55	7.975	7.969	0.006	97	12894	1.00	1.06	
68 Methylcyclohexane	83	8.152	8.151	0.001	84	10893	1.00	0.8927	
69 1,2-Dichloropropane	63	8.176	8.176	0.000	93	6113	1.00	0.9052	
70 2-ethoxy-2-methyl butane	87	8.200	8.194	0.006	88	9081	1.00	0.9168	
73 1,4-Dioxane	88	8.291	8.267	0.024	34	1103	12.5	6.55	Ma
72 Methyl methacrylate	69	8.279	8.273	0.006	89	7103	1.00	1.04	
74 Dibromomethane	93	8.279	8.285	-0.006	81	4410	1.00	0.9327	
75 Dichlorobromomethane	83	8.541	8.529	0.012	97	7960	1.00	0.9659	
76 2-Nitropropane	41	8.803	8.802	0.000	95	17140	5.00	5.23	M
77 2-Chloroethyl vinyl ether	63	8.906	8.906	0.000	87	4185	1.00	0.8567	
78 cis-1,3-Dichloropropene	75	9.095	9.094	0.001	95	9462	1.00	0.8911	
79 4-Methyl-2-pentanone (MIBK)	43	9.289	9.289	0.000	96	28341	2.00	2.16	M
$ 80 Toluene-d8 (Surr)	98	9.423	9.429	-0.006	93	1275334	50.0	50.8	
81 Toluene	92	9.508	9.502	0.006	99	15150	1.00	0.9571	
82 trans-1,3-Dichloropropene	75	9.782	9.782	0.000	90	8570	1.00	0.9261	
100 Ethyl methacrylate	69	9.855	9.855	0.000	90	10588	1.00	0.9548	
118 1,1,2-Trichloroethane	97	9.995	9.989	0.006	90	6191	1.00	1.00	
S 114 1,3-Dichloropropene, Total	100				0			1.82	
119 Tetrachloroethene	166	10.080	10.080	0.000	94	5843	1.00	0.8868	
120 1,3-Dichloropropane	76	10.159	10.159	0.000	86	9431	1.00	0.9647	
123 2-Hexanone	43	10.226	10.220	0.006	98	16511	2.00	1.86	M
125 Chlorodibromomethane	129	10.372	10.378	-0.006	88	6020	1.00	0.9036	
127 Ethylene Dibromide	107	10.494	10.488	0.006	98	6042	1.00	0.9293	
* 128 Chlorobenzene-d5 (IS)	117	10.938	10.938	0.000	85	933370	50.0	50.0	
129 1-Chlorohexane	91	10.962	10.956	0.006	58	10002	1.00	1.15	
130 Chlorobenzene	112	10.962	10.968	-0.006	95	16791	1.00	0.9503	
131 1,1,1,2-Tetrachloroethane	131	11.053	11.053	0.000	91	5821	1.00	0.8467	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
132 Ethylbenzene	91	11.060	11.059	0.001	98	28074	1.00	0.9226	
134 m-Xylene & p-Xylene	106	11.181	11.175	0.006	99	21534	2.00	1.77	
S 133 Xylenes, Total	106				0			2.73	
135 n-Butyl acrylate	55	11.473	11.467	0.006	97	14335	1.00	0.9203	
136 o-Xylene	106	11.510	11.510	0.000	93	12543	1.00	0.9507	
137 Styrene	104	11.528	11.528	0.000	95	18208	1.00	0.9171	
138 Bromoform	173	11.680	11.680	0.000	95	5017	1.00	0.9632	
139 Isopropylbenzene	105	11.820	11.820	0.000	95	28029	1.00	0.8963	
141 Cyclohexanone	55	11.893	11.887	0.006	93	28981	50.0	37.8	
$ 142 4-Bromofluorobenzene (Surr)	95	11.960	11.960	0.000	91	468091	50.0	51.0	
143 1,1,2,2-Tetrachloroethane	83	12.069	12.069	0.000	94	12136	1.00	1.00	
144 Bromobenzene	156	12.075	12.075	0.000	91	7243	1.00	0.9121	
145 trans-1,4-Dichloro-2-butene	53	12.094	12.094	0.000	92	7481	2.50	2.30	
146 1,2,3-Trichloropropane	110	12.112	12.112	0.000	81	3287	1.00	0.9509	
147 N-Propylbenzene	91	12.155	12.154	0.001	98	34364	1.00	0.9145	
148 2-Chlorotoluene	126	12.228	12.227	0.001	96	7292	1.00	0.8885	
149 1,3,5-Trimethylbenzene	105	12.294	12.294	0.000	94	25589	1.00	0.8826	
150 4-Chlorotoluene	126	12.325	12.319	0.006	95	7418	1.00	0.9351	
153 tert-Butylbenzene	134	12.532	12.538	-0.006	93	4663	1.00	0.8306	
155 1,2,4-Trimethylbenzene	105	12.574	12.580	-0.006	96	26434	1.00	0.8958	
156 sec-Butylbenzene	105	12.702	12.702	0.000	93	31706	1.00	0.8631	
158 1,3-Dichlorobenzene	146	12.793	12.793	0.000	98	14211	1.00	0.9085	
159 4-Isopropyltoluene	119	12.812	12.811	0.001	97	29097	1.00	0.8953	
* 160 1,4-Dichlorobenzene-d4	152	12.854	12.854	0.000	94	556751	50.0	50.0	
161 1,4-Dichlorobenzene	146	12.872	12.872	0.000	94	14267	1.00	0.9045	
162 1,2,3-Trimethylbenzene	105	12.885	12.884	0.001	94	30225	1.00	0.9503	
163 Benzyl chloride	91	12.945	12.945	0.000	98	22581	1.00	0.9589	
164 1,3-Diethylbenzene	119	13.012	13.012	0.000	97	17354	1.00	0.8945	
165 p-Diethylbenzene	119	13.085	13.085	0.000	95	18251	1.00	0.8994	
166 n-Butylbenzene	92	13.104	13.103	0.001	96	14475	1.00	0.8853	
167 1,2-Dichlorobenzene	146	13.134	13.128	0.006	95	16030	1.00	0.9607	
168 o-diethylbenzene	119	13.158	13.158	0.000	94	14203	1.00	0.8704	
170 1,2-Dibromo-3-Chloropropane	75	13.675	13.675	0.000	91	3525	1.00	0.9674	
171 1,3,5-Trichlorobenzene	180	13.803	13.803	0.000	95	11721	1.00	0.8934	
172 1,2,4-Trichlorobenzene	180	14.229	14.229	0.000	93	12110	1.00	0.9248	
173 2-Ethylhexyl acrylate	55	14.290	14.296	-0.006	81	10024	1.00	0.8832	
174 Hexachlorobutadiene	225	14.314	14.314	0.000	95	4064	1.00	0.8024	
175 Naphthalene	128	14.405	14.405	0.000	97	46322	1.00	0.9606	
176 1,2,3-Trichlorobenzene	180	14.551	14.551	0.000	96	12192	1.00	0.9376	
177 2-Methylnaphthalene	142	15.148	15.154	-0.006	89	19584	1.00	0.7851	
S 186 Total Diethylbenzene	1				0			2.66	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_4ppbEtoh_00647	Amount Added:	12.50	Units: mL	
MSV_HP04_ISSS_00003	Amount Added:	1.00	Units: uL	Run Reagent

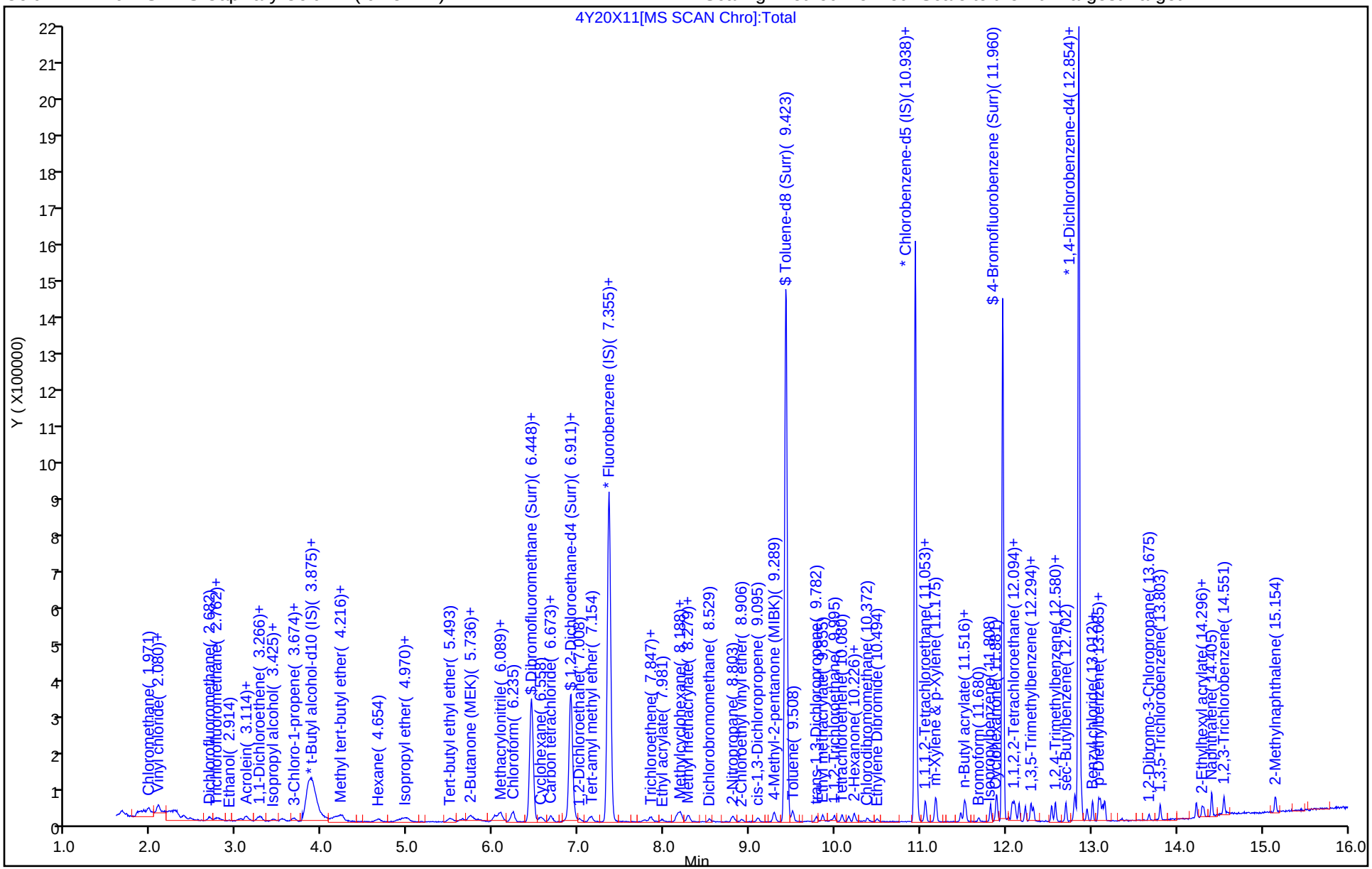
Report Date: 23-May-2024 08:34:40 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X11.D

Injection Date:	21-May-2024 01:00:30	Instrument ID:	23297	Operator ID:	MEC29284
Lims ID:	IC v1			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

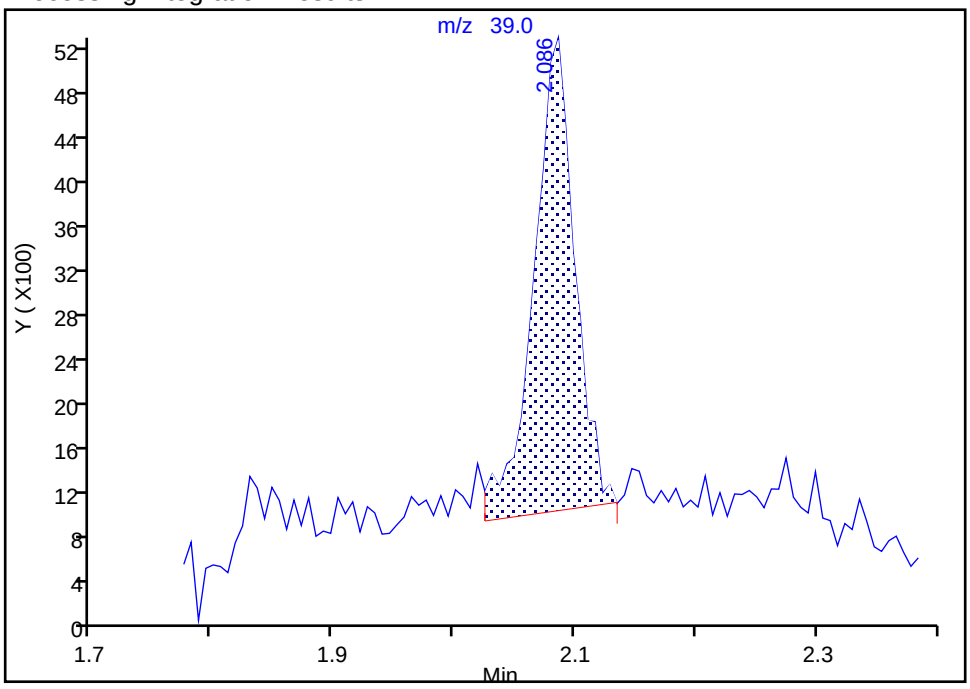
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X11.D
Injection Date: 21-May-2024 01:00:30 Instrument ID: 23297
Lims ID: IC v1
Client ID:
Operator ID: MEC29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

6 Butadiene, CAS: 106-99-0

Signal: 1

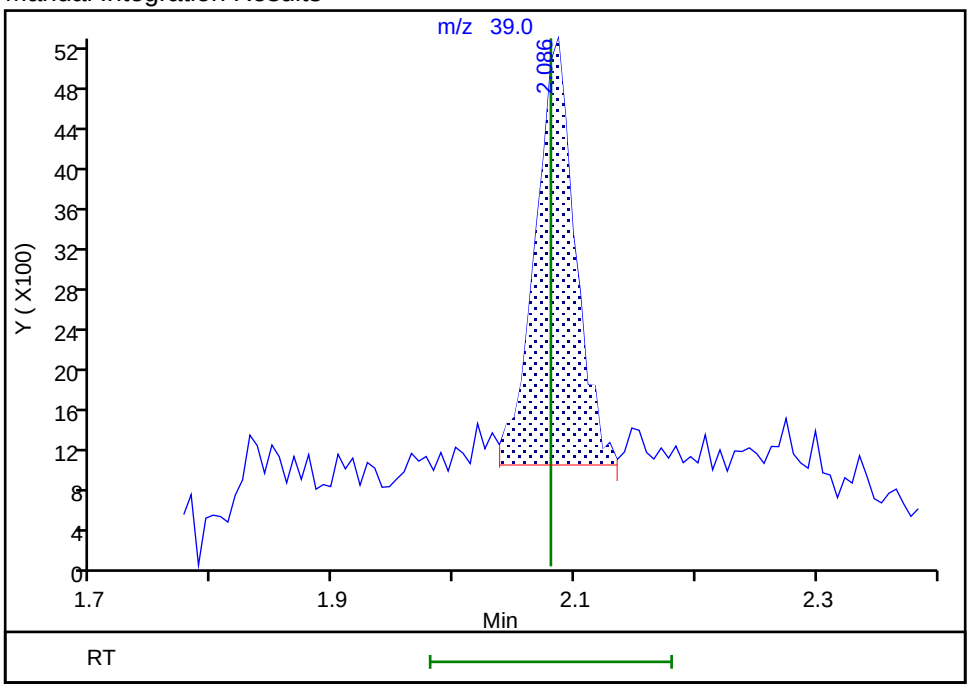
Processing Integration Results

RT: 2.09
Area: 10085
Amount: 0.901689
Amount Units: ug/l



Manual Integration Results

RT: 2.09
Area: 9652
Amount: 0.873530
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 16:58:35 -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

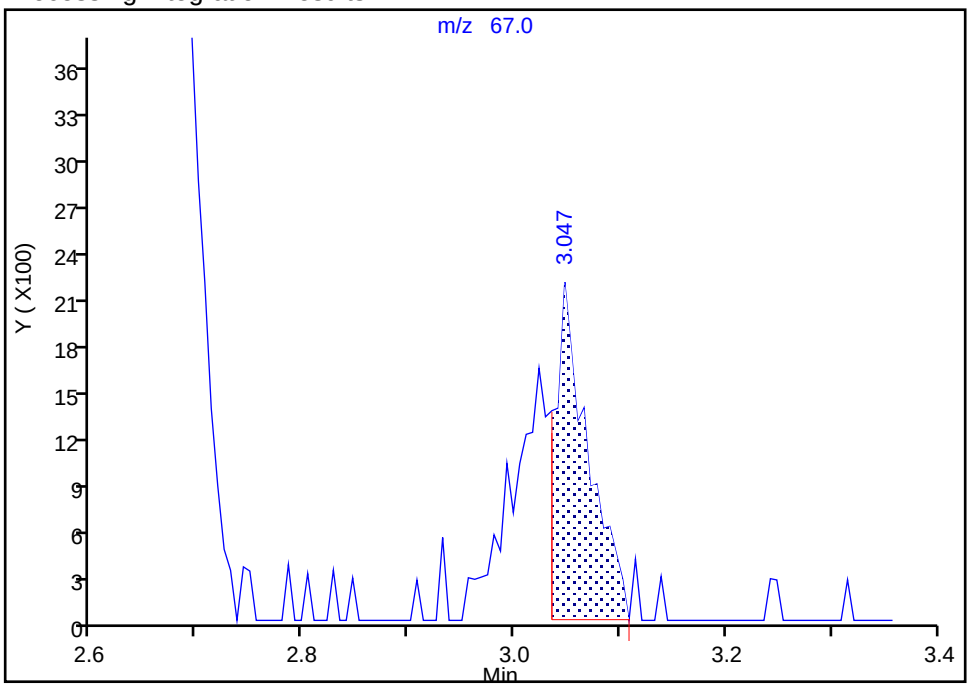
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X11.D
Injection Date: 21-May-2024 01:00:30 Instrument ID: 23297
Lims ID: IC v1
Client ID:
Operator ID: MEC29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

15 1,2-Dichloro-1,1,2-trifluoroetha, CAS: 354-23-4

Signal: 1

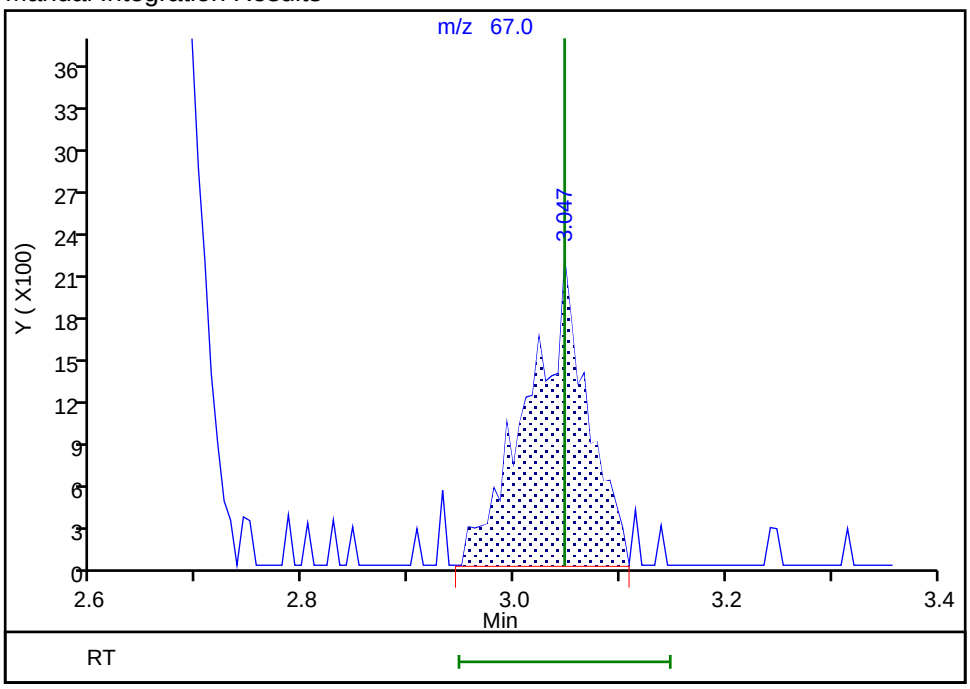
Processing Integration Results

RT: 3.05
Area: 4712
Amount: 0.596544
Amount Units: ug/l



Manual Integration Results

RT: 3.05
Area: 8417
Amount: 0.998681
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 16:58:47 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

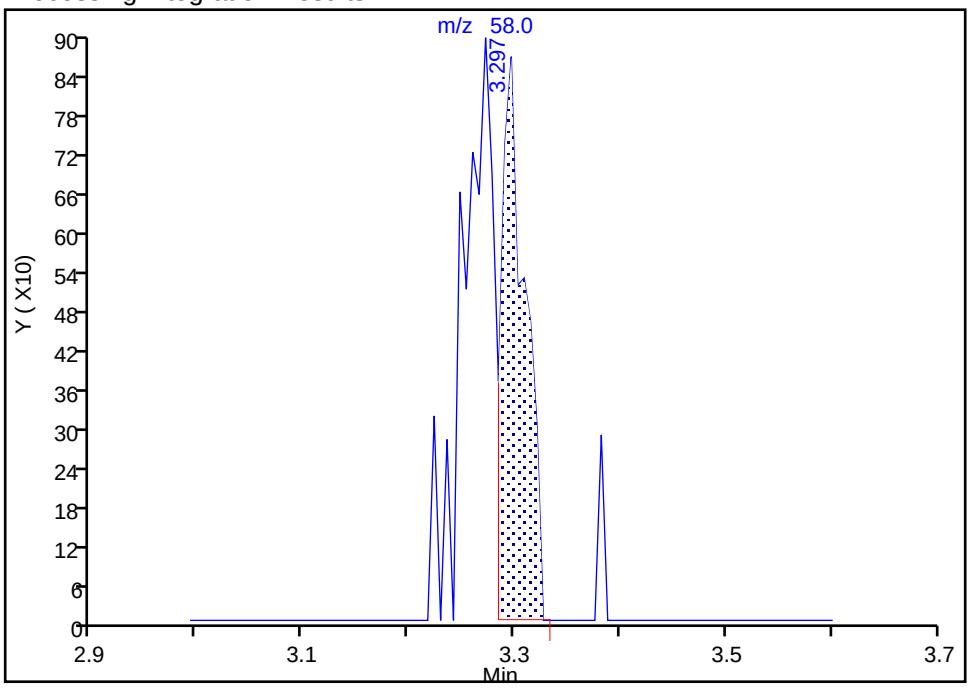
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X11.D
Injection Date: 21-May-2024 01:00:30 Instrument ID: 23297
Lims ID: IC v1
Client ID:
Operator ID: MEC29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

18 Acetone, CAS: 67-64-1

Signal: 1

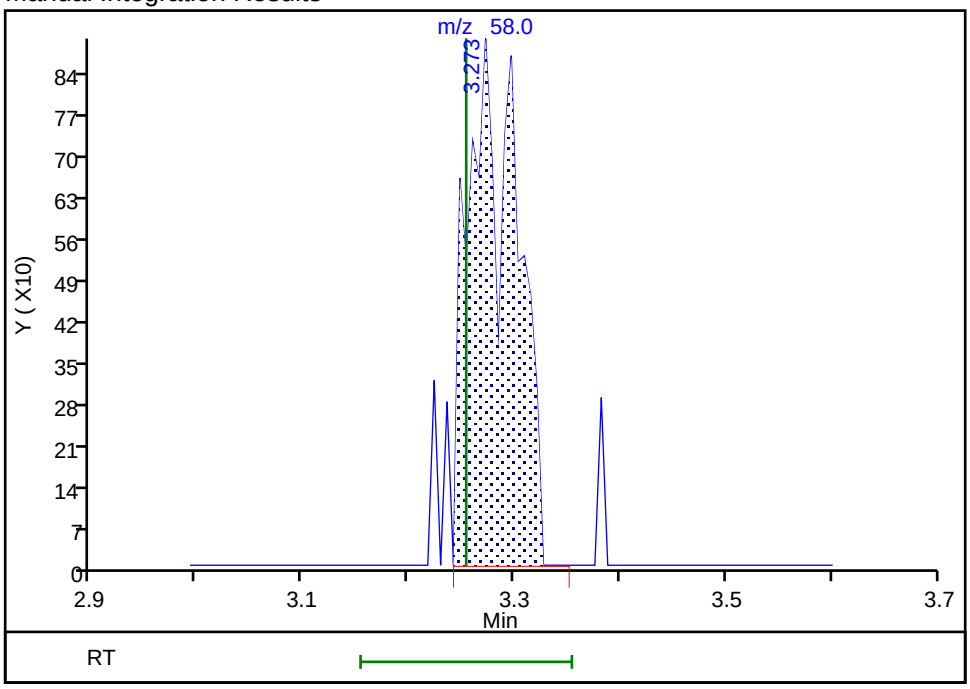
Processing Integration Results

RT: 3.30
Area: 1369
Amount: 1.277205
Amount Units: ug/l



Manual Integration Results

RT: 3.27
Area: 2868
Amount: 1.915434
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 16:59:00 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

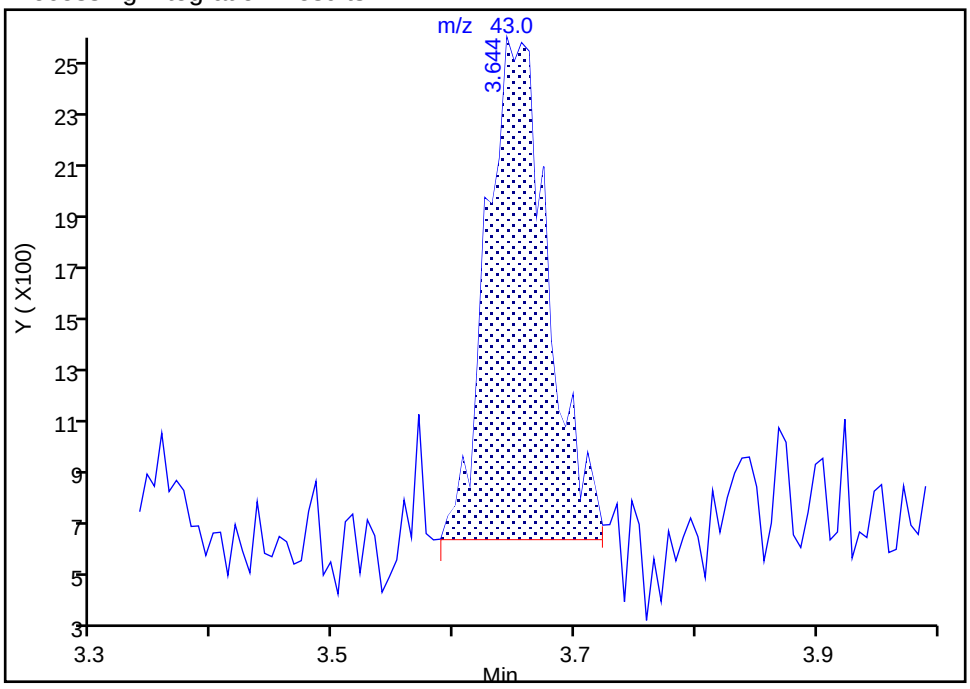
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X11.D
Injection Date: 21-May-2024 01:00:30 Instrument ID: 23297
Lims ID: IC v1
Client ID:
Operator ID: MEC29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

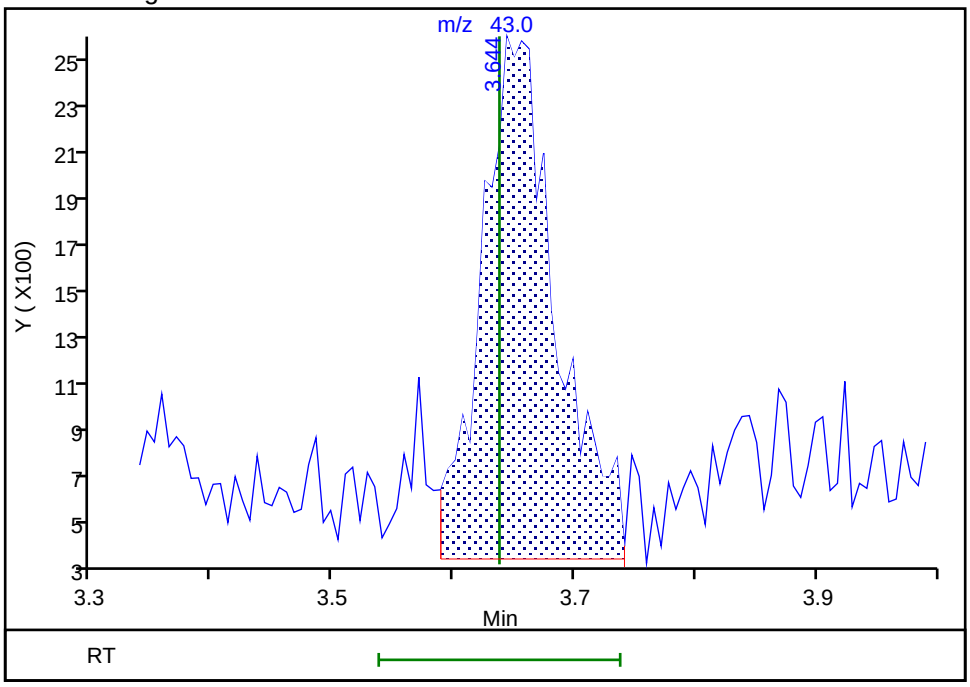
Processing Integration Results

RT: 3.64
Area: 6719
Amount: 0.803893
Amount Units: ug/l



Manual Integration Results

RT: 3.64
Area: 9511
Amount: 1.086649
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 16:59:15 -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

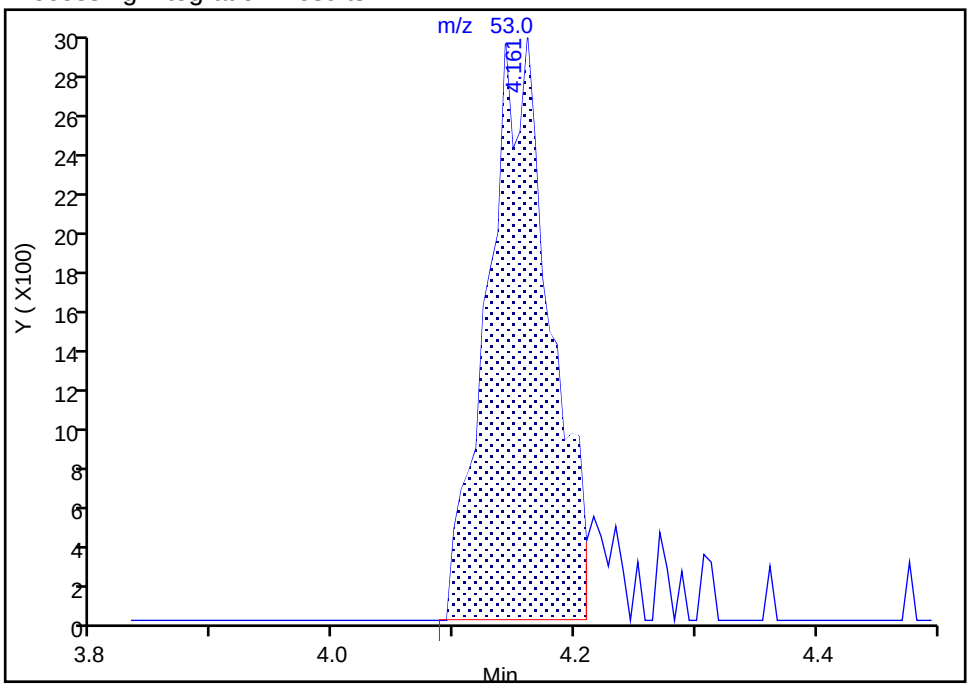
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X11.D
Injection Date: 21-May-2024 01:00:30 Instrument ID: 23297
Lims ID: IC v1
Client ID:
Operator ID: MEC29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

30 Acrylonitrile, CAS: 107-13-1

Signal: 1

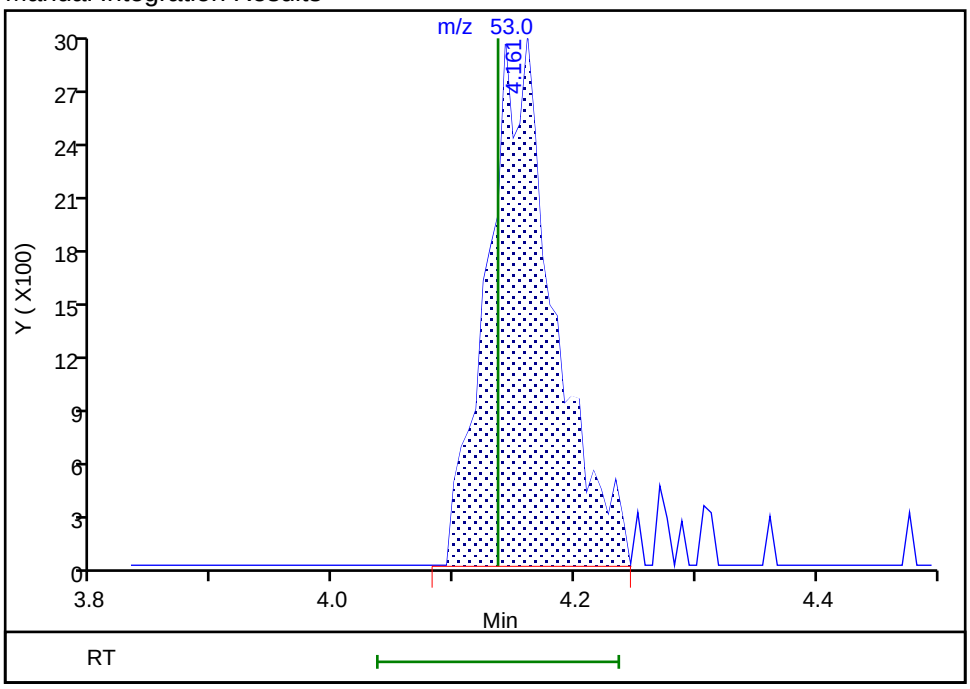
Processing Integration Results

RT: 4.16
Area: 10764
Amount: 2.334031
Amount Units: ug/l



Manual Integration Results

RT: 4.16
Area: 11490
Amount: 2.469242
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 16:59:25 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

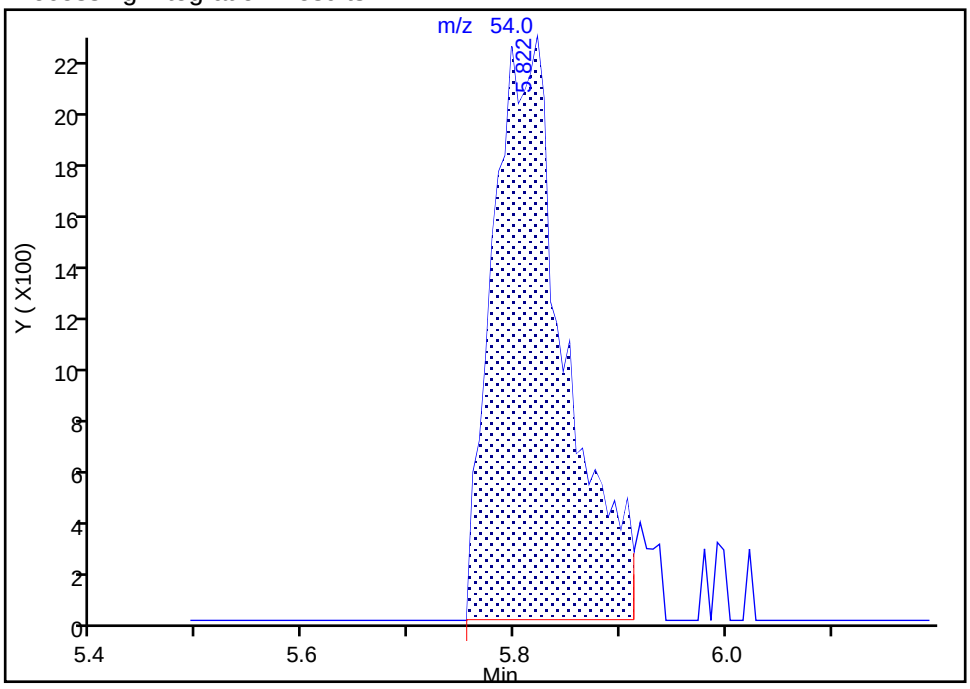
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X11.D
Injection Date: 21-May-2024 01:00:30 Instrument ID: 23297
Lims ID: IC v1
Client ID:
Operator ID: MEC29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

44 Propionitrile, CAS: 107-12-0

Signal: 1

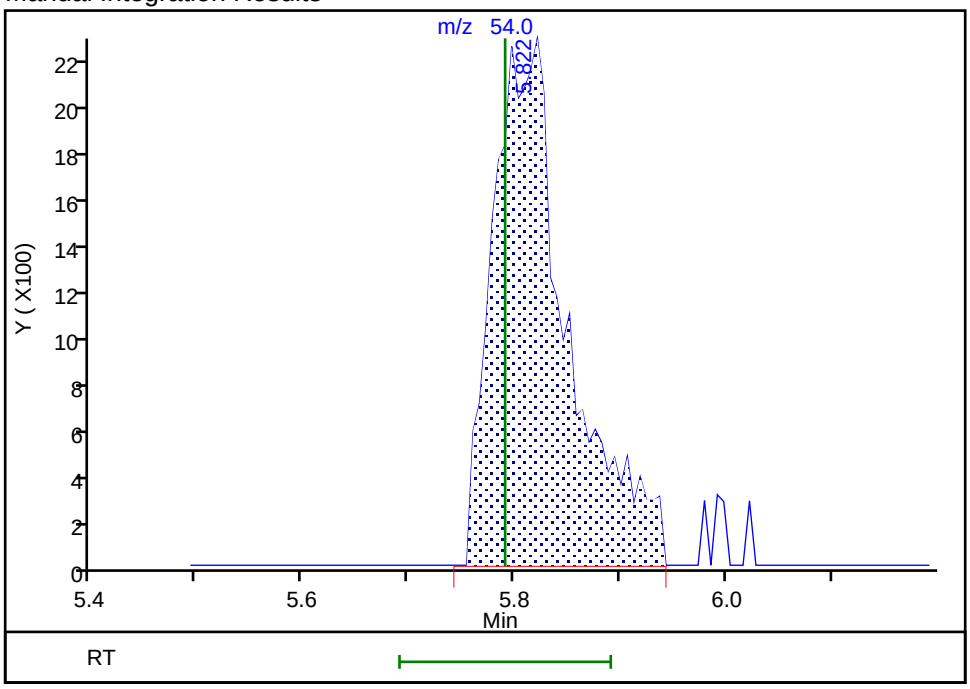
Processing Integration Results

RT: 5.82
Area: 10645
Amount: 4.630885
Amount Units: ug/l



Manual Integration Results

RT: 5.82
Area: 11091
Amount: 4.798308
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 16:59:58 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

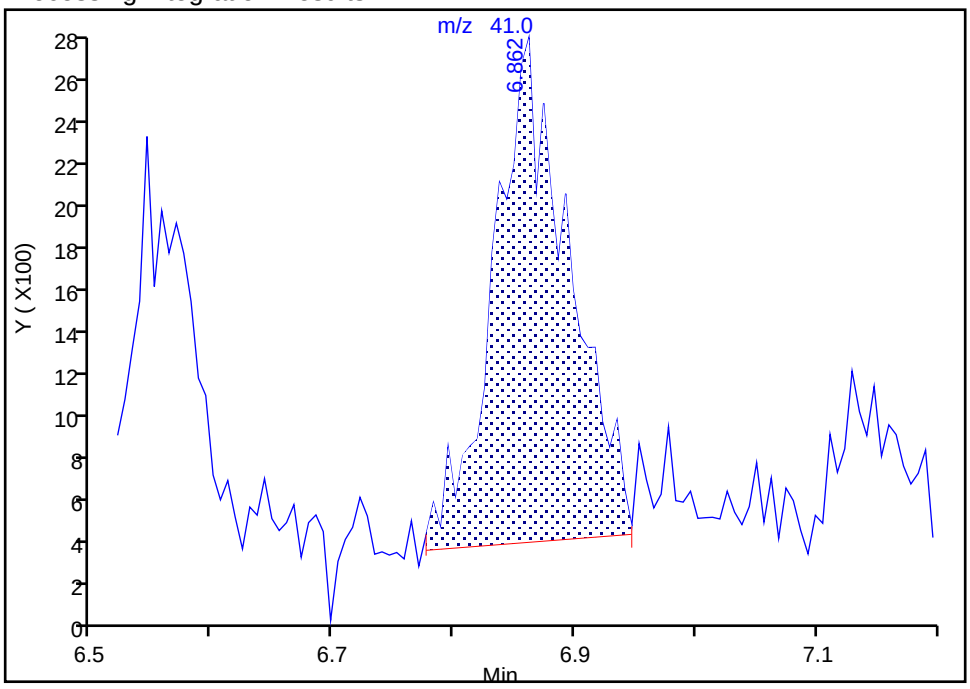
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X11.D
Injection Date: 21-May-2024 01:00:30 Instrument ID: 23297
Lims ID: IC v1
Client ID:
Operator ID: MEC29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

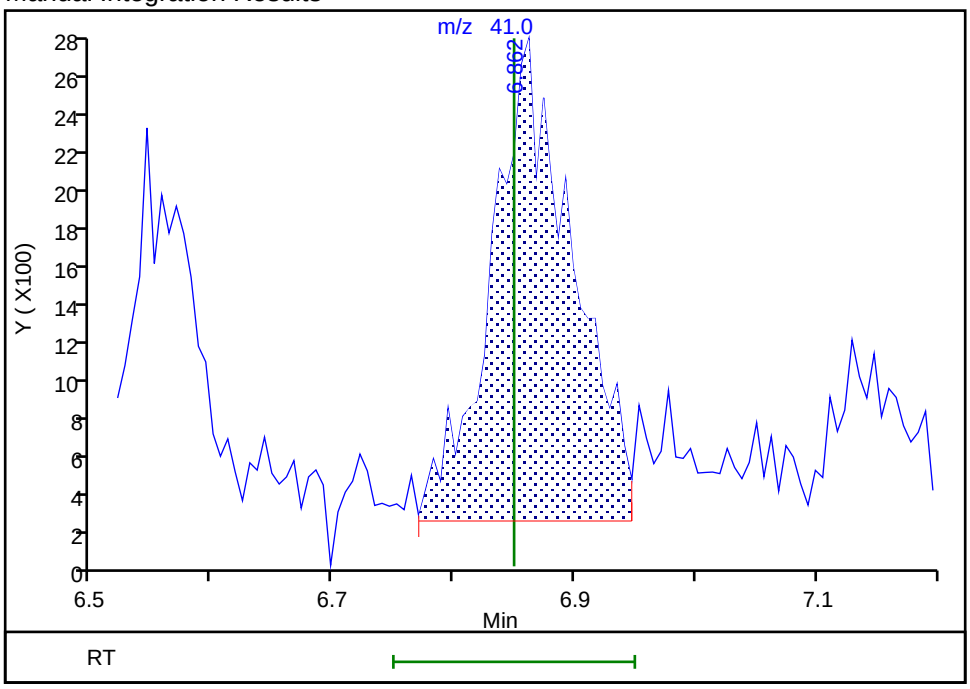
Processing Integration Results

RT: 6.86
Area: 10311
Amount: 12.754205
Amount Units: ug/l



Manual Integration Results

RT: 6.86
Area: 11662
Amount: 14.154987
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 17:00:25 -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

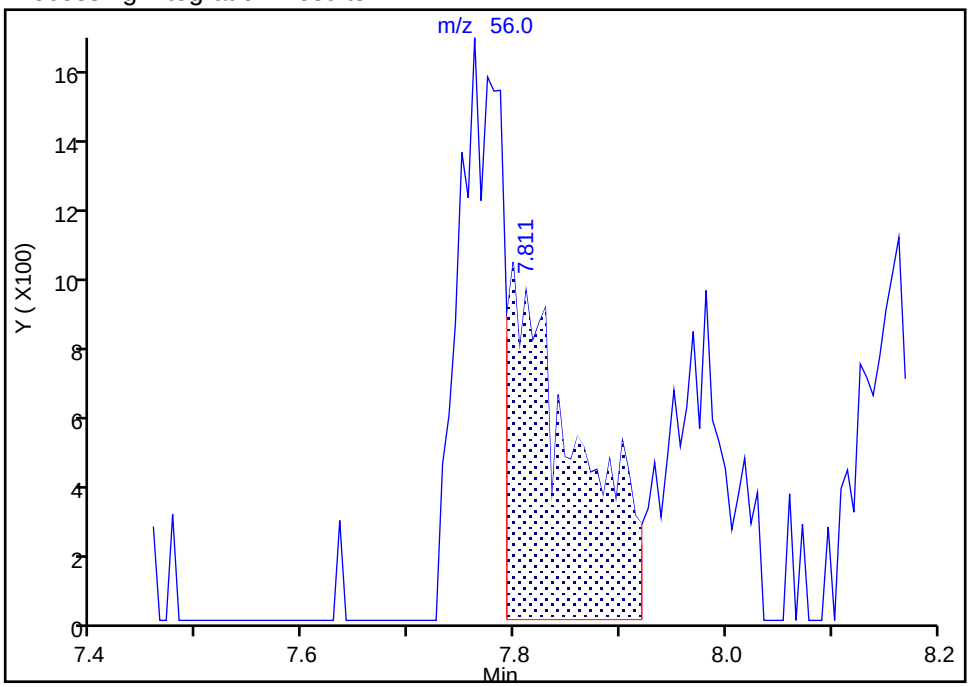
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X11.D
Injection Date: 21-May-2024 01:00:30 Instrument ID: 23297
Lims ID: IC v1
Client ID:
Operator ID: MEC29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

64 n-Butanol, CAS: 71-36-3

Signal: 1

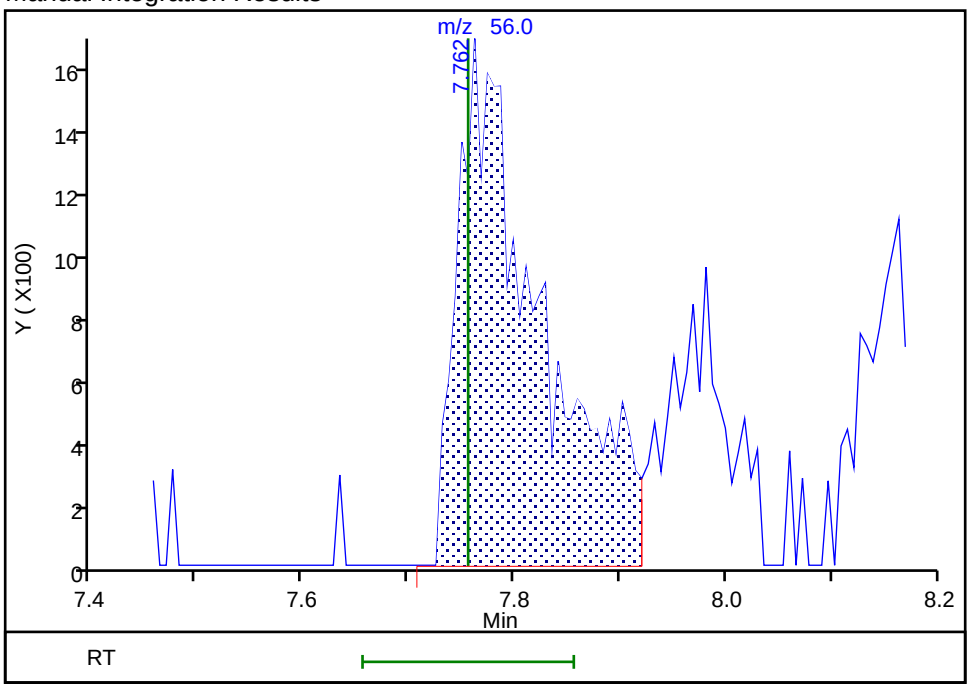
Processing Integration Results

RT: 7.81
Area: 4460
Amount: 7.278854
Amount Units: ug/l



Manual Integration Results

RT: 7.76
Area: 8665
Amount: 13.113073
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 17:00:39 -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

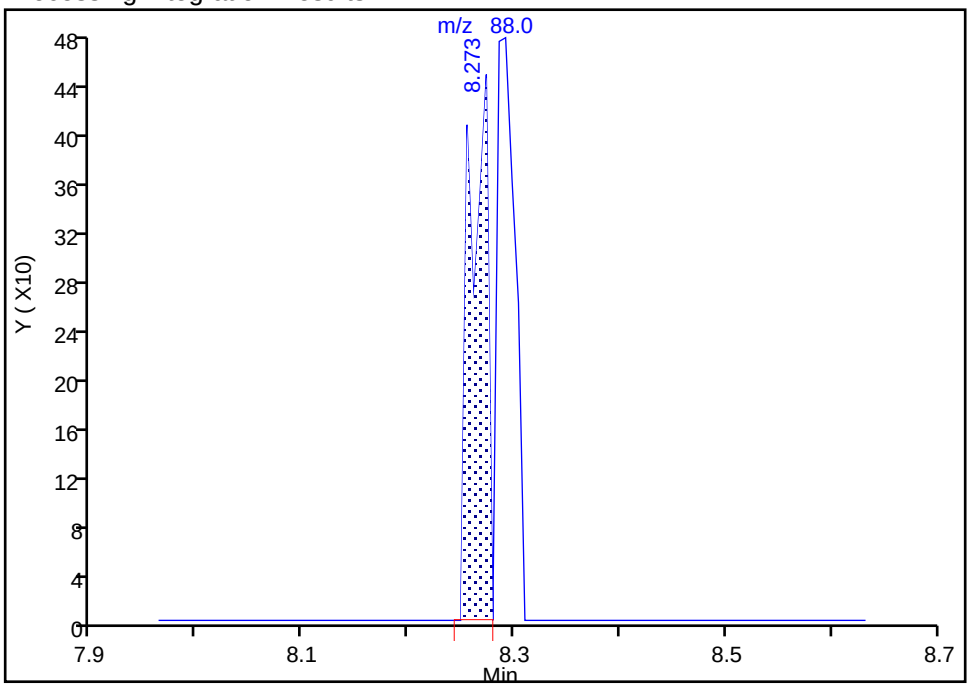
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X11.D
Injection Date: 21-May-2024 01:00:30 Instrument ID: 23297
Lims ID: IC v1
Client ID:
Operator ID: MEC29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

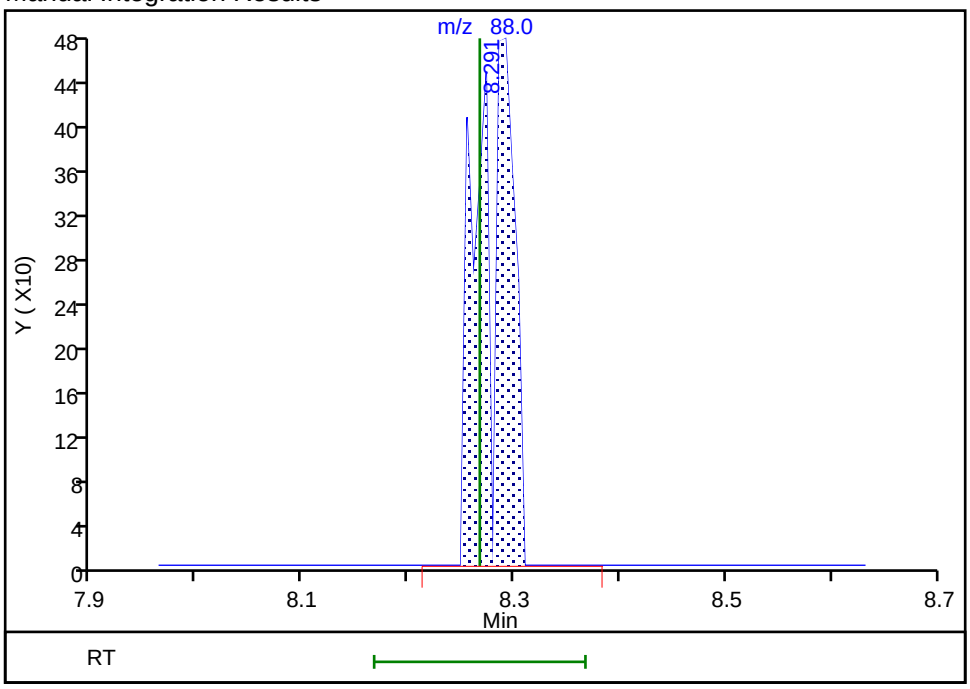
Processing Integration Results

RT: 8.27
Area: 532
Amount: 12.081608
Amount Units: ug/l



Manual Integration Results

RT: 8.29
Area: 1103
Amount: 6.547390
Amount Units: ug/l



Reviewer: UKAD, 21-May-2024 11:24:39 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

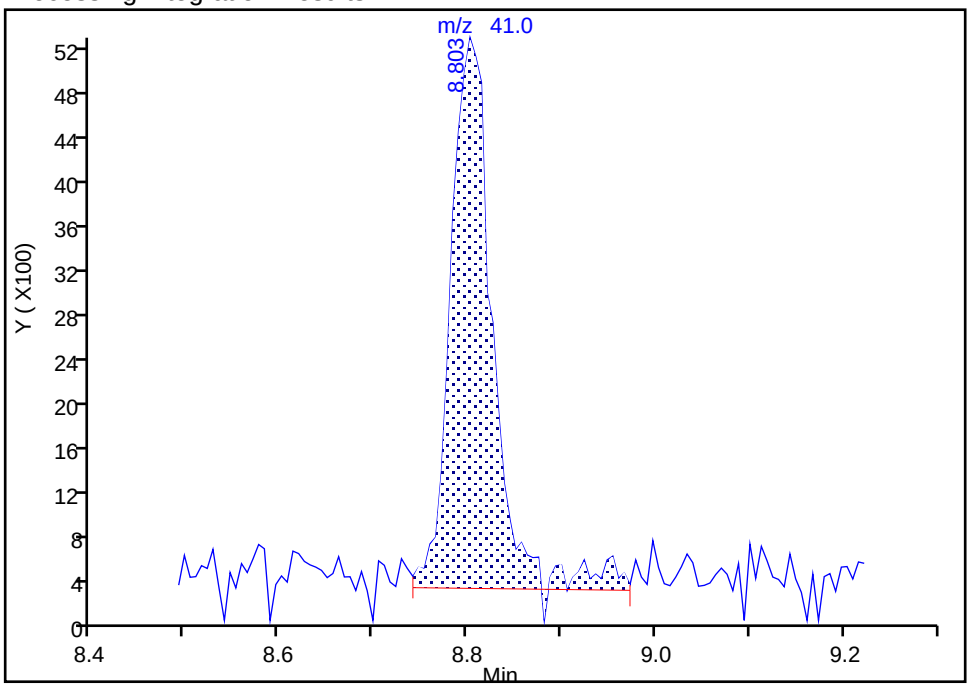
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X11.D
Injection Date: 21-May-2024 01:00:30 Instrument ID: 23297
Lims ID: IC v1
Client ID:
Operator ID: MEC29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

76 2-Nitropropane, CAS: 79-46-9

Signal: 1

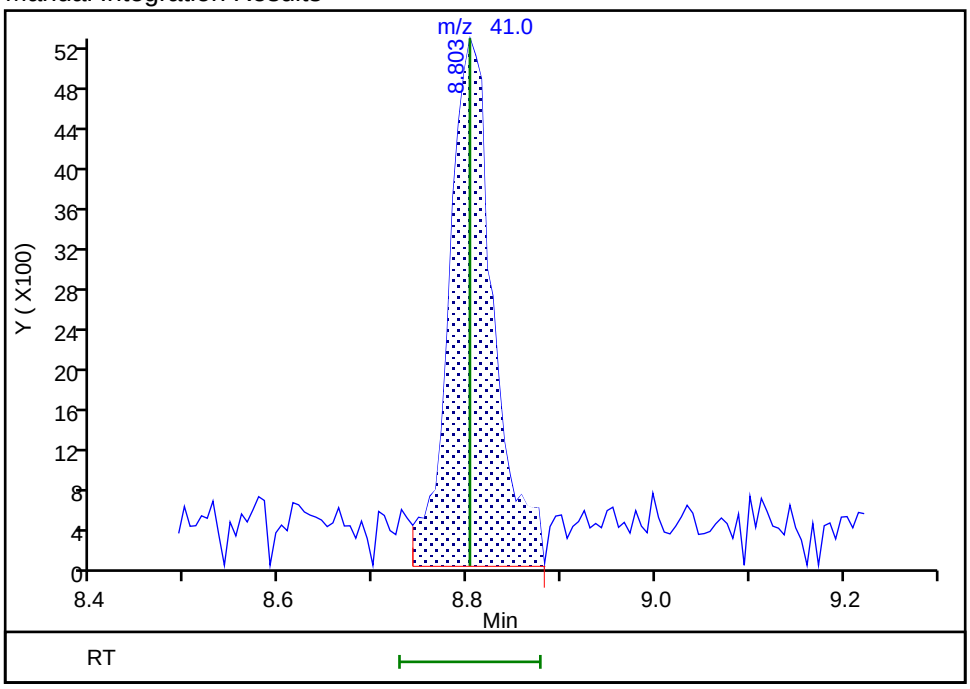
Processing Integration Results

RT: 8.80
Area: 15571
Amount: 4.812583
Amount Units: ug/l



Manual Integration Results

RT: 8.80
Area: 17140
Amount: 5.225123
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 17:00:55 -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

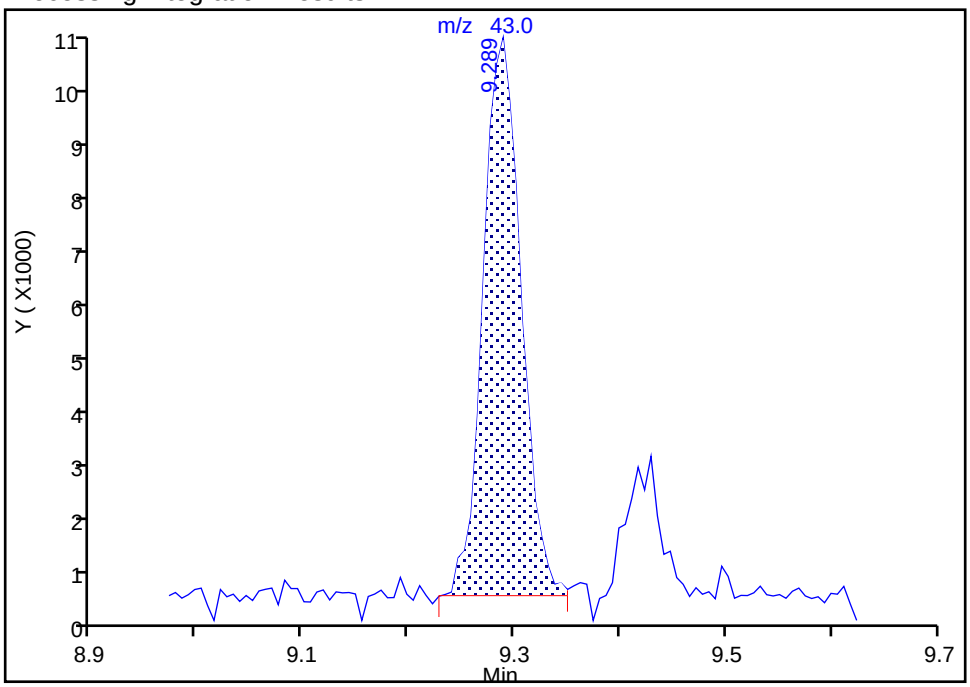
Data File:	\\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X11.D				
Injection Date:	21-May-2024 01:00:30	Instrument ID:	23297		
Lims ID:	IC v1				
Client ID:					
Operator ID:	MEC29284	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

79 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Signal: 1

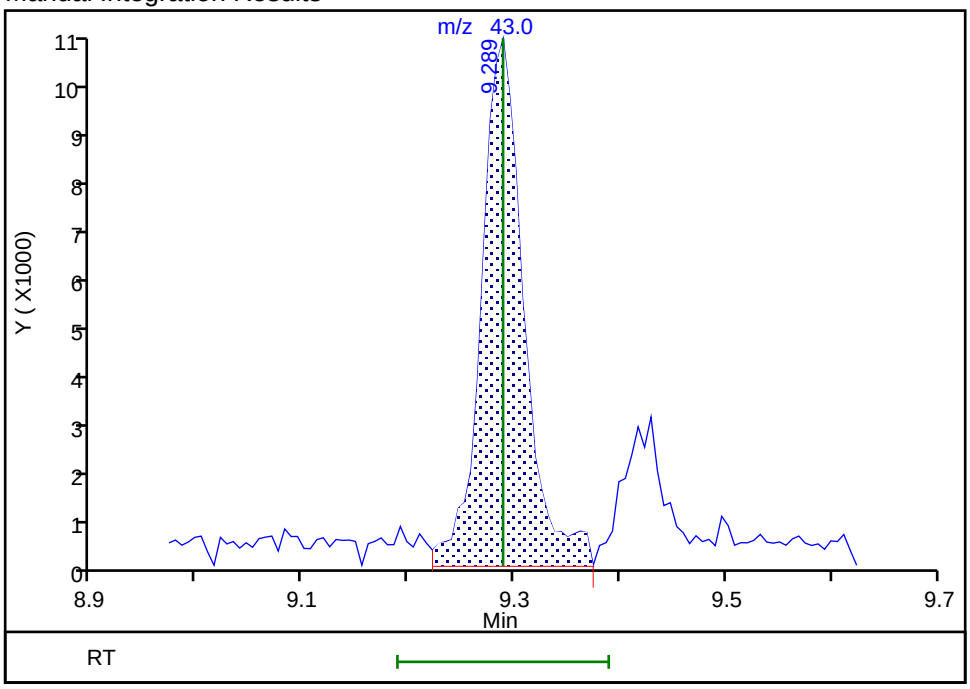
Processing Integration Results

RT: 9.29
Area: 24327
Amount: 1.892891
Amount Units: ug/l



Manual Integration Results

RT: 9.29
Area: 28341
Amount: 2.157099
Amount Units: ug/l



Reviewer: UKEK, 23-May-2024 08:25:33 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

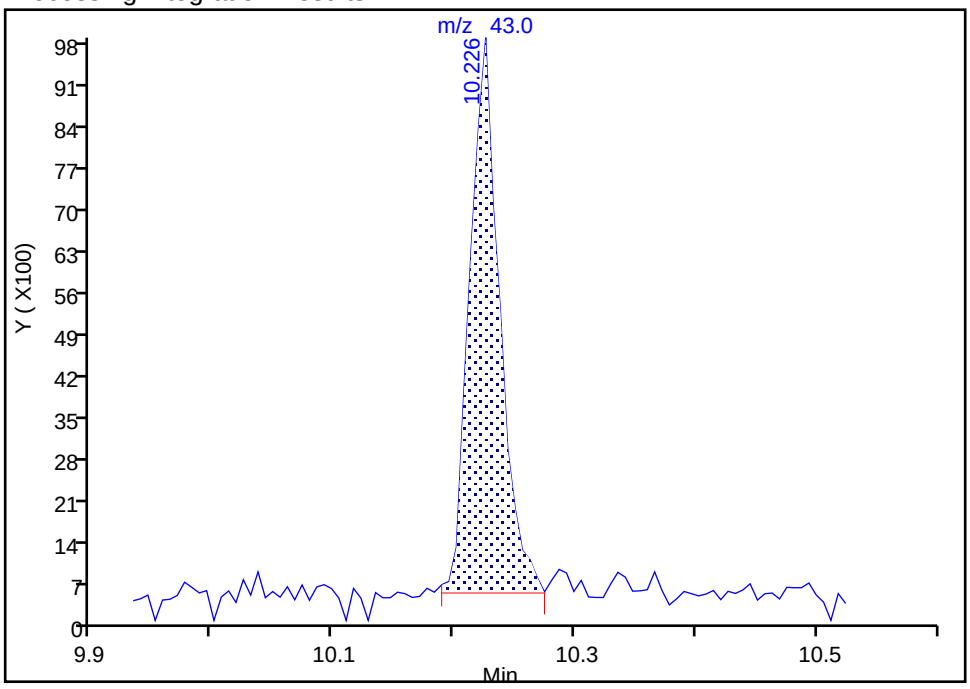
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X11.D
Injection Date: 21-May-2024 01:00:30 Instrument ID: 23297
Lims ID: IC v1
Client ID:
Operator ID: MEC29284 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

123 2-Hexanone, CAS: 591-78-6

Signal: 1

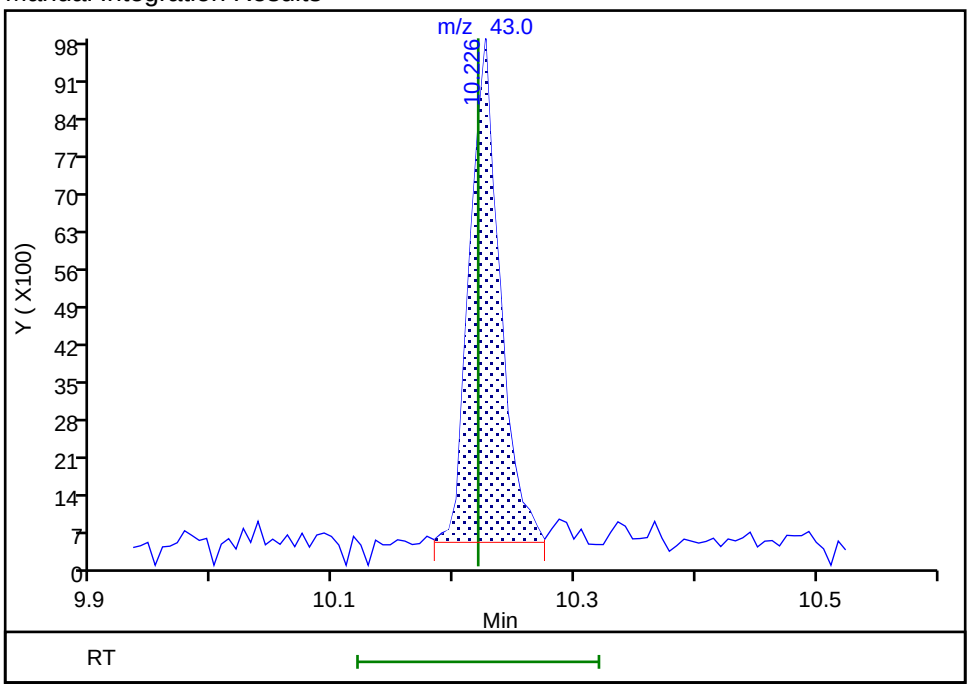
Processing Integration Results

RT: 10.23
Area: 16176
Amount: 1.824556
Amount Units: ug/l



Manual Integration Results

RT: 10.23
Area: 16511
Amount: 1.857329
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 17:01:38 -04:00:00 (UTC)
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X12.D
Lims ID: IC v4
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 21-May-2024 01:22:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0114468-013
Misc. Info.: IC 4
Operator ID: MEC29284 Instrument ID: 23297
Sublist: chrom-MSVoa_23297*sub95

Method: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 23-May-2024 08:34:53 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: UKAD Date: 21-May-2024 11:26:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.800	1.788	0.012	98	46820	4.00	4.15	
4 Chloromethane	50	1.977	1.964	0.013	99	51236	4.00	4.18	
5 Vinyl chloride	62	2.080	2.068	0.012	80	47548	4.00	4.17	
6 Butadiene	39	2.092	2.080	0.012	92	50547	4.00	4.50	M
8 Bromomethane	94	2.390	2.378	0.012	90	32347	4.00	3.84	M
9 Chloroethane	64	2.475	2.457	0.018	98	25355	4.00	4.15	
10 Dichlorofluoromethane	67	2.688	2.676	0.012	97	70306	4.00	4.20	
11 Trichlorofluoromethane	101	2.743	2.737	0.006	95	48634	4.00	4.05	
12 Pentane	43	2.774	2.767	0.007	97	41674	4.00	4.06	
13 Ethanol	45	2.877	2.877	0.000	88	39230	250.0	225.9	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.053	3.047	0.006	90	34516	4.00	4.03	
16 Acrolein	56	3.120	3.102	0.018	99	100426	40.1	40.1	
17 1,1-Dichloroethene	96	3.260	3.248	0.012	98	24113	4.00	4.09	
18 Acetone	58	3.278	3.254	0.024	99	12128	8.00	8.72	M
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.291	3.279	0.013	94	27873	4.00	4.16	
21 Iodomethane	142	3.437	3.431	0.006	98	49187	4.00	3.97	
20 Isopropyl alcohol	45	3.424	3.437	-0.013	95	29713	20.0	21.5	
22 Carbon disulfide	76	3.540	3.528	0.012	99	87842	4.00	3.99	
24 Methyl acetate	43	3.662	3.637	0.025	98	35233	4.00	3.96	
26 3-Chloro-1-propene	41	3.674	3.668	0.006	93	38786	4.00	3.98	
27 Methylene Chloride	84	3.850	3.850	0.000	92	29701	4.00	4.04	
* 28 t-Butyl alcohol-d10 (IS)	65	3.875	3.869	0.006	83	566874	250.0	250.0	
29 2-Methyl-2-propanol	59	3.972	3.984	-0.012	99	49432	20.0	20.9	
30 Acrylonitrile	53	4.148	4.136	0.012	98	46150	10.0	9.76	
31 Methyl tert-butyl ether	73	4.240	4.209	0.031	96	86744	4.00	3.96	
32 trans-1,2-Dichloroethene	96	4.240	4.221	0.019	99	25303	4.00	4.04	
34 Hexane	57	4.666	4.647	0.019	93	33837	4.00	4.04	
35 1,1-Dichloroethane	63	4.891	4.878	0.013	96	44442	4.00	4.09	
37 Isopropyl ether	45	4.951	4.951	0.000	94	84468	4.00	4.00	
38 2-Chloro-1,3-butadiene	53	5.012	4.988	0.024	89	37204	4.00	4.09	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 Tert-butyl ethyl ether	59	5.505	5.493	0.012	99	82605	4.00	3.96	
40 2-Butanone (MEK)	43	5.724	5.706	0.018	100	54436	8.00	8.10	
41 cis-1,2-Dichloroethene	96	5.748	5.730	0.018	82	29284	4.00	4.03	
42 2,2-Dichloropropane	77	5.754	5.748	0.006	89	43014	4.00	4.01	
44 Propionitrile	54	5.803	5.791	0.012	95	40944	20.0	19.1	
45 Methyl acrylate	55	5.858	5.840	0.018	93	47096	4.00	3.87	
47 Methacrylonitrile	67	6.022	6.016	0.006	92	46788	10.0	9.90	
48 Chlorobromomethane	128	6.065	6.065	0.000	63	14833	4.00	3.95	
49 Tetrahydrofuran	71	6.095	6.083	0.012	92	39566	20.0	20.5	
S 46 1,2-Dichloroethene, Total	100				0			8.07	
50 Chloroform	83	6.235	6.229	0.006	93	69168	4.00	4.06	
$ 51 Dibromofluoromethane (Surr)	113	6.454	6.442	0.012	93	324104	50.0	50.2	
52 1,1,1-Trichloroethane	97	6.454	6.454	0.000	40	40866	4.00	4.02	
53 Cyclohexane	56	6.564	6.558	0.006	90	51034	4.00	4.12	
54 Carbon tetrachloride	117	6.679	6.673	0.006	82	34154	4.00	4.08	
55 1,1-Dichloropropene	75	6.679	6.673	0.006	94	34655	4.00	4.03	
56 Isobutyl alcohol	41	6.862	6.850	0.012	97	39843	50.0	52.1	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	6.916	6.904	0.012	83	78284	50.0	49.8	
58 Benzene	78	6.947	6.941	0.006	93	104196	4.00	3.98	
59 1,2-Dichloroethane	62	7.026	7.008	0.018	95	33710	4.00	3.96	
61 Tert-amyl methyl ether	73	7.148	7.142	0.006	99	80519	4.00	3.89	
* 62 Fluorobenzene (IS)	96	7.361	7.355	0.006	99	1278820	50.0	50.0	
63 n-Heptane	43	7.379	7.379	0.000	39	37284	4.00	4.02	
64 n-Butanol	56	7.768	7.756	0.012	90	29405	50.0	47.9	
66 Trichloroethene	95	7.847	7.841	0.006	96	25448	4.00	3.78	
67 Ethyl acrylate	55	7.975	7.969	0.006	98	45692	4.00	3.70	
68 Methylcyclohexane	83	8.151	8.151	0.000	91	50136	4.00	4.04	
69 1,2-Dichloropropane	63	8.182	8.176	0.006	95	26464	4.00	3.86	
70 2-ethoxy-2-methyl butane	87	8.200	8.194	0.006	93	37856	4.00	3.76	
73 1,4-Dioxane	88	8.279	8.267	0.012	32	7483	50.0	47.8	M
72 Methyl methacrylate	69	8.279	8.273	0.006	91	25803	4.00	3.74	
74 Dibromomethane	93	8.291	8.285	0.006	88	18866	4.00	3.93	
75 Dichlorobromomethane	83	8.529	8.529	0.000	98	31606	4.00	3.78	
76 2-Nitropropane	41	8.802	8.802	0.000	98	58152	20.0	19.1	
77 2-Chloroethyl vinyl ether	63	8.912	8.906	0.006	90	18347	4.00	3.70	
78 cis-1,3-Dichloropropene	75	9.100	9.094	0.006	95	40693	4.00	3.77	
79 4-Methyl-2-pentanone (MIBK)	43	9.289	9.289	0.000	96	100722	8.00	7.55	
$ 80 Toluene-d8 (Surr)	98	9.429	9.429	0.000	93	1274633	50.0	51.2	
81 Toluene	92	9.508	9.502	0.006	98	61780	4.00	3.94	
82 trans-1,3-Dichloropropene	75	9.782	9.782	0.000	91	34299	4.00	3.74	
100 Ethyl methacrylate	69	9.855	9.855	0.000	90	43832	4.00	3.99	
118 1,1,2-Trichloroethane	97	9.995	9.989	0.006	90	24032	4.00	3.90	
S 114 1,3-Dichloropropene, Total	100				0			7.51	
119 Tetrachloroethene	166	10.086	10.080	0.006	97	26711	4.00	4.09	
120 1,3-Dichloropropane	76	10.159	10.159	0.000	91	37790	4.00	3.90	
123 2-Hexanone	43	10.226	10.220	0.006	97	72421	8.00	8.22	
125 Chlorodibromomethane	129	10.384	10.378	0.006	91	24419	4.00	3.70	
127 Ethylene Dibromide	107	10.494	10.488	0.006	99	24625	4.00	3.82	
* 128 Chlorobenzene-d5 (IS)	117	10.938	10.938	0.000	85	925078	50.0	50.0	
129 1-Chlorohexane	91	10.956	10.956	0.000	98	36131	4.00	4.19	
130 Chlorobenzene	112	10.968	10.968	0.000	96	70660	4.00	4.03	
131 1,1,1,2-Tetrachloroethane	131	11.053	11.053	0.000	95	27094	4.00	3.98	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
132 Ethylbenzene	91	11.059	11.059	0.000	98	121302	4.00	4.02	
134 m-Xylene & p-Xylene	106	11.181	11.175	0.006	99	97857	8.00	8.14	
S 133 Xylenes, Total	106				0			12.1	
135 n-Butyl acrylate	55	11.473	11.467	0.006	97	61899	4.00	4.01	
136 o-Xylene	106	11.510	11.510	0.000	96	52107	4.00	3.98	
137 Styrene	104	11.528	11.528	0.000	94	79955	4.00	4.06	
138 Bromoform	173	11.680	11.680	0.000	96	19647	4.00	3.81	
139 Isopropylbenzene	105	11.820	11.820	0.000	95	127282	4.00	4.11	
141 Cyclohexanone	55	11.887	11.887	0.000	93	151181	200.0	212.5	
$ 142 4-Bromofluorobenzene (Surr)	95	11.960	11.960	0.000	91	458377	50.0	50.4	
143 1,1,2,2-Tetrachloroethane	83	12.069	12.069	0.000	94	48826	4.00	3.97	
144 Bromobenzene	156	12.075	12.075	0.000	92	30355	4.00	3.78	
145 trans-1,4-Dichloro-2-butene	53	12.094	12.094	0.000	93	32274	10.0	9.81	
146 1,2,3-Trichloropropane	110	12.112	12.112	0.000	83	14046	4.00	4.02	
147 N-Propylbenzene	91	12.154	12.154	0.000	99	153228	4.00	4.03	
148 2-Chlorotoluene	126	12.227	12.227	0.000	97	33315	4.00	4.01	
149 1,3,5-Trimethylbenzene	105	12.294	12.294	0.000	94	115400	4.00	3.93	
150 4-Chlorotoluene	126	12.319	12.319	0.000	97	32183	4.00	4.01	
153 tert-Butylbenzene	134	12.538	12.538	0.000	92	21404	4.00	3.77	
155 1,2,4-Trimethylbenzene	105	12.580	12.580	0.000	96	118398	4.00	3.97	
156 sec-Butylbenzene	105	12.702	12.702	0.000	94	148200	4.00	3.99	
158 1,3-Dichlorobenzene	146	12.799	12.793	0.006	98	62774	4.00	3.97	
159 4-Isopropyltoluene	119	12.811	12.811	0.000	97	128769	4.00	3.92	
* 160 1,4-Dichlorobenzene-d4	152	12.854	12.854	0.000	94	563303	50.0	50.0	
161 1,4-Dichlorobenzene	146	12.872	12.872	0.000	97	65319	4.00	4.09	
162 1,2,3-Trimethylbenzene	105	12.884	12.884	0.000	96	125041	4.00	3.89	
163 Benzyl chloride	91	12.951	12.945	0.006	98	95711	4.00	4.02	
164 1,3-Diethylbenzene	119	13.012	13.012	0.000	94	77243	4.00	3.93	
165 p-Diethylbenzene	119	13.085	13.085	0.000	94	82808	4.00	4.03	
166 n-Butylbenzene	92	13.103	13.103	0.000	97	67032	4.00	4.05	
167 1,2-Dichlorobenzene	146	13.134	13.128	0.006	98	66594	4.00	3.94	
168 o-diethylbenzene	119	13.158	13.158	0.000	94	62742	4.00	3.80	
170 1,2-Dibromo-3-Chloropropane	75	13.675	13.675	0.000	85	14946	4.00	4.05	
171 1,3,5-Trichlorobenzene	180	13.803	13.803	0.000	97	53543	4.00	4.03	
172 1,2,4-Trichlorobenzene	180	14.229	14.229	0.000	95	52606	4.00	3.97	
173 2-Ethylhexyl acrylate	55	14.296	14.296	0.000	81	40419	4.00	3.52	
174 Hexachlorobutadiene	225	14.320	14.314	0.006	94	20155	4.00	3.93	
175 Naphthalene	128	14.405	14.405	0.000	97	197911	4.00	4.06	
176 1,2,3-Trichlorobenzene	180	14.551	14.551	0.000	95	52826	4.00	4.02	
177 2-Methylnaphthalene	142	15.154	15.154	0.000	92	92779	4.00	3.68	
S 186 Total Diethylbenzene	1				0			11.8	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00184	Amount Added:	4.00	Units: uL	
MSV_CCV_VOC#3_00180	Amount Added:	3.20	Units: uL	
MSV_CCV_2CEVE_00176	Amount Added:	4.00	Units: uL	
MSV_CCV_ETOH_00006	Amount Added:	20.00	Units: uL	
MSV_CCV_GASES_00772	Amount Added:	2.00	Units: uL	
MSV_CCV_CYC_00008	Amount Added:	32.00	Units: uL	
MSV_CCV_OH_Sp_00007	Amount Added:	4.00	Units: uL	
MSV_HP04_ISSS_00003	Amount Added:	1.00	Units: uL	Run Reagent

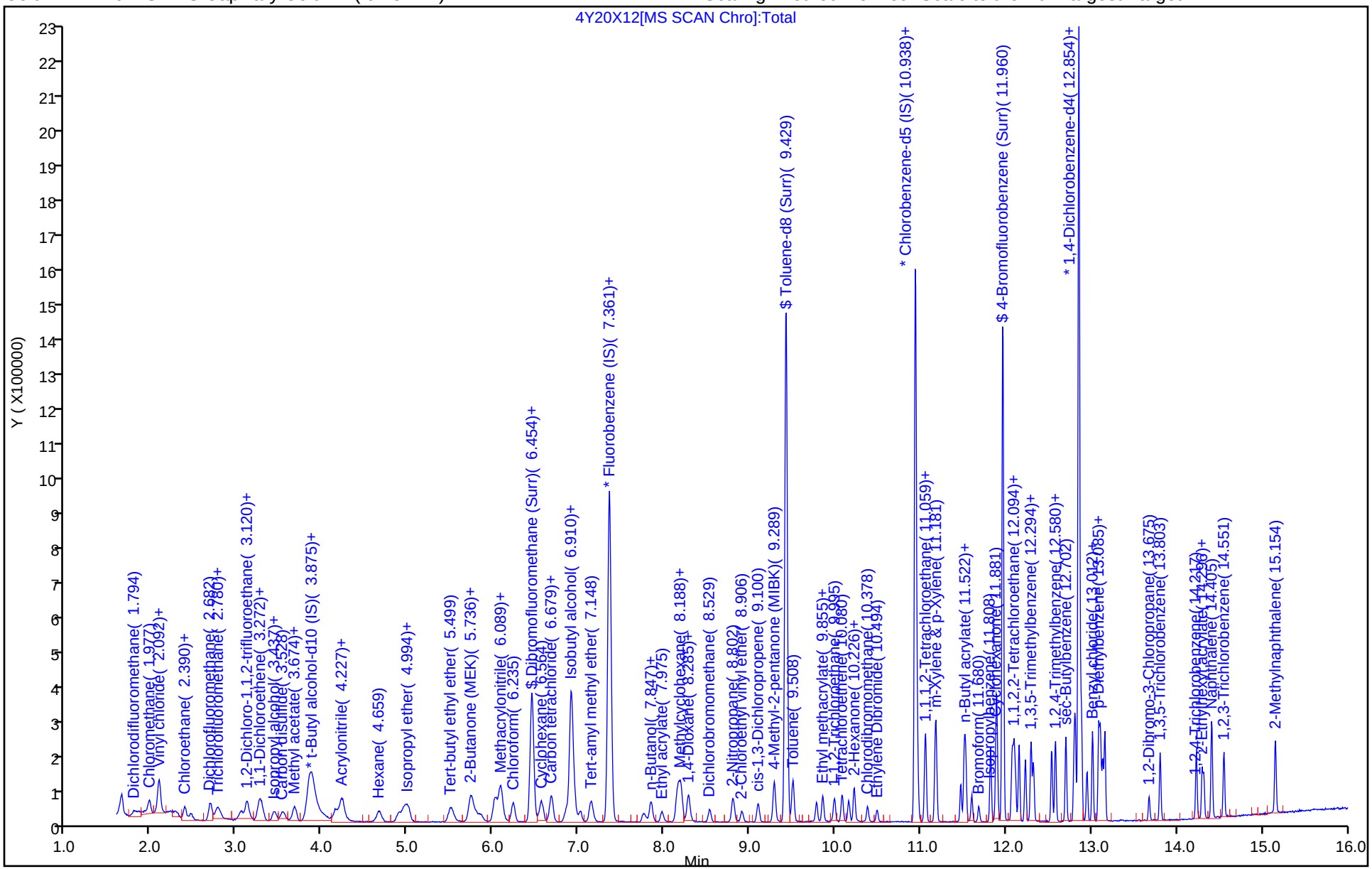
Report Date: 23-May-2024 08:34:54 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X12.D

Injection Date:	21-May-2024 01:22:30	Instrument ID:	23297	Operator ID:	MEC29284
Lims ID:	IC v4			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

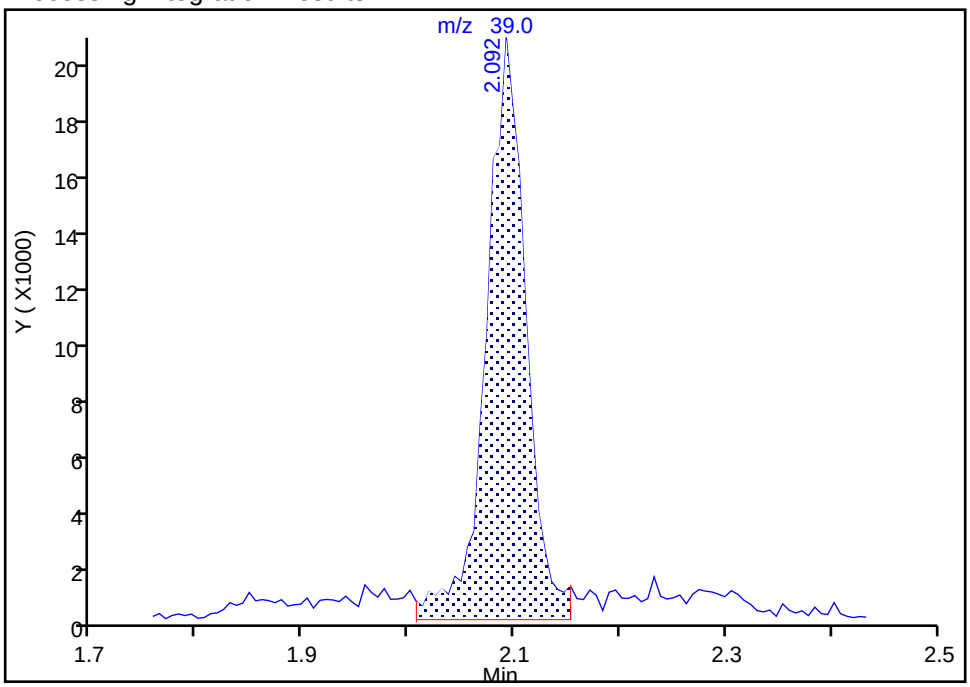
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X12.D
Injection Date: 21-May-2024 01:22:30 Instrument ID: 23297
Lims ID: IC v4
Client ID:
Operator ID: MEC29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

6 Butadiene, CAS: 106-99-0

Signal: 1

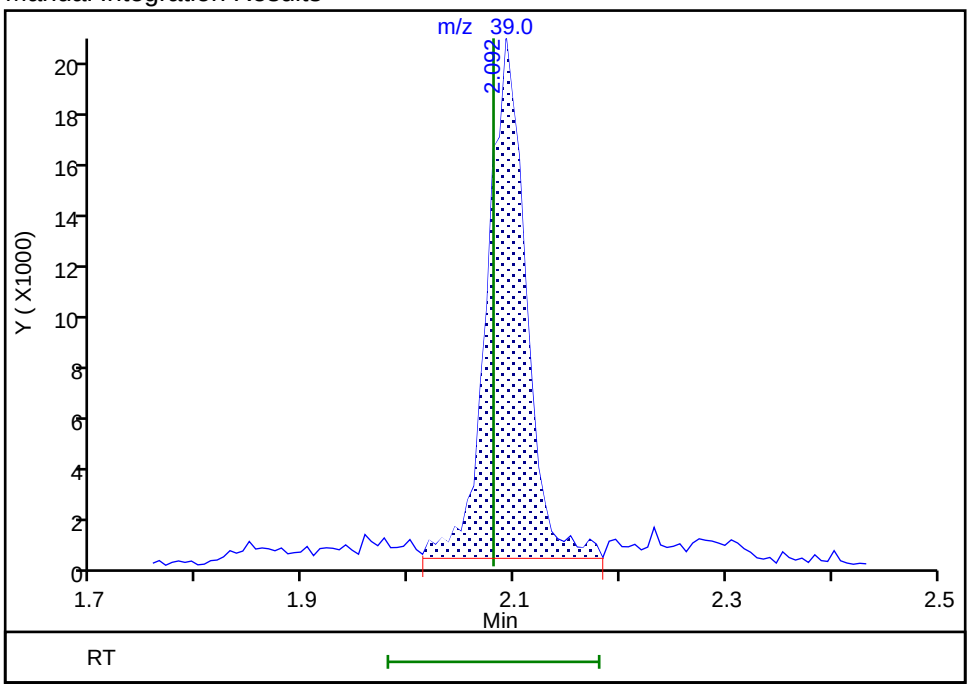
Processing Integration Results

RT: 2.09
Area: 52632
Amount: 4.657546
Amount Units: ug/l



Manual Integration Results

RT: 2.09
Area: 50547
Amount: 4.502710
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 17:02:31 -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

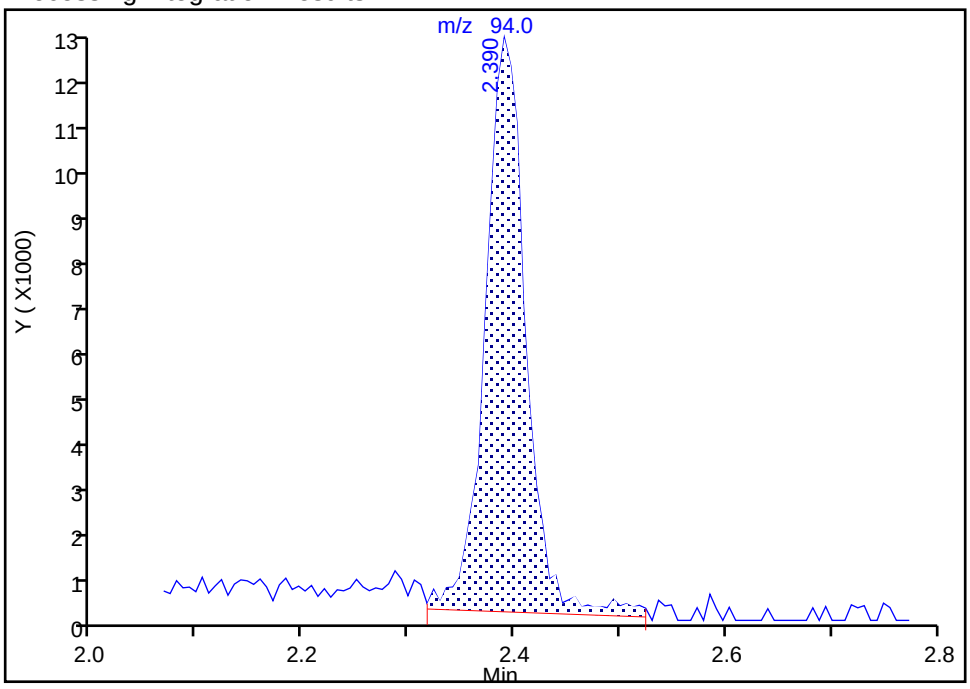
Data File:	\\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X12.D				
Injection Date:	21-May-2024 01:22:30	Instrument ID:	23297		
Lims ID:	IC v4				
Client ID:					
Operator ID:	MEC29284	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

8 Bromomethane, CAS: 74-83-9

Signal: 1

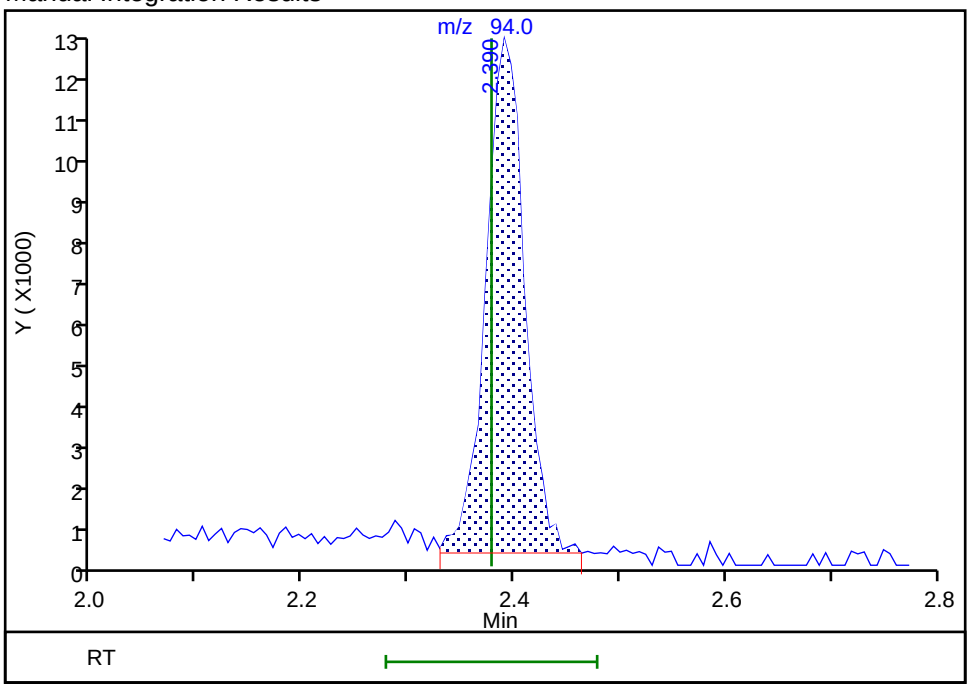
Processing Integration Results

RT: 2.39
Area: 33892
Amount: 4.000528
Amount Units: ug/l



Manual Integration Results

RT: 2.39
Area: 32347
Amount: 3.843191
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 17:02:47 -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

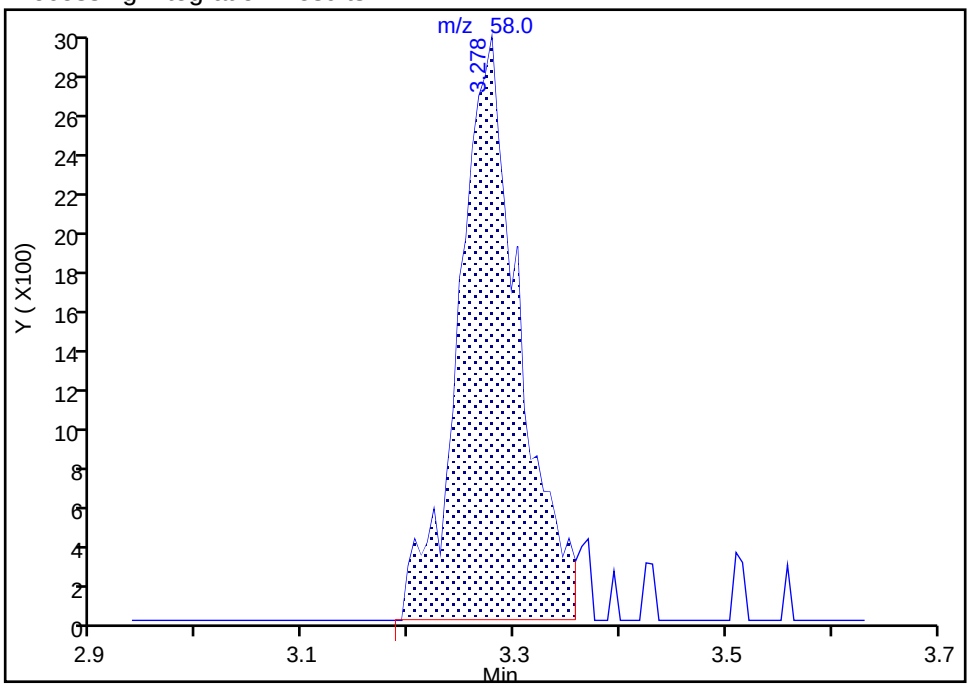
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X12.D
Injection Date: 21-May-2024 01:22:30 Instrument ID: 23297
Lims ID: IC v4
Client ID:
Operator ID: MEC29284 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

18 Acetone, CAS: 67-64-1

Signal: 1

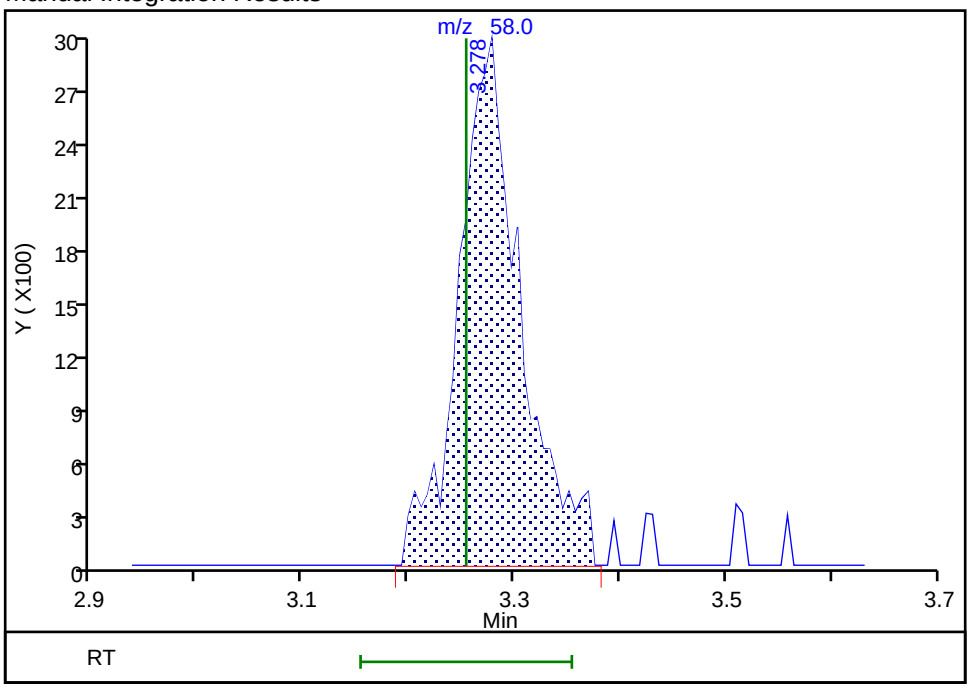
Processing Integration Results

RT: 3.28
Area: 11838
Amount: 8.542848
Amount Units: ug/l



Manual Integration Results

RT: 3.28
Area: 12128
Amount: 8.719540
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 17:15:18 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

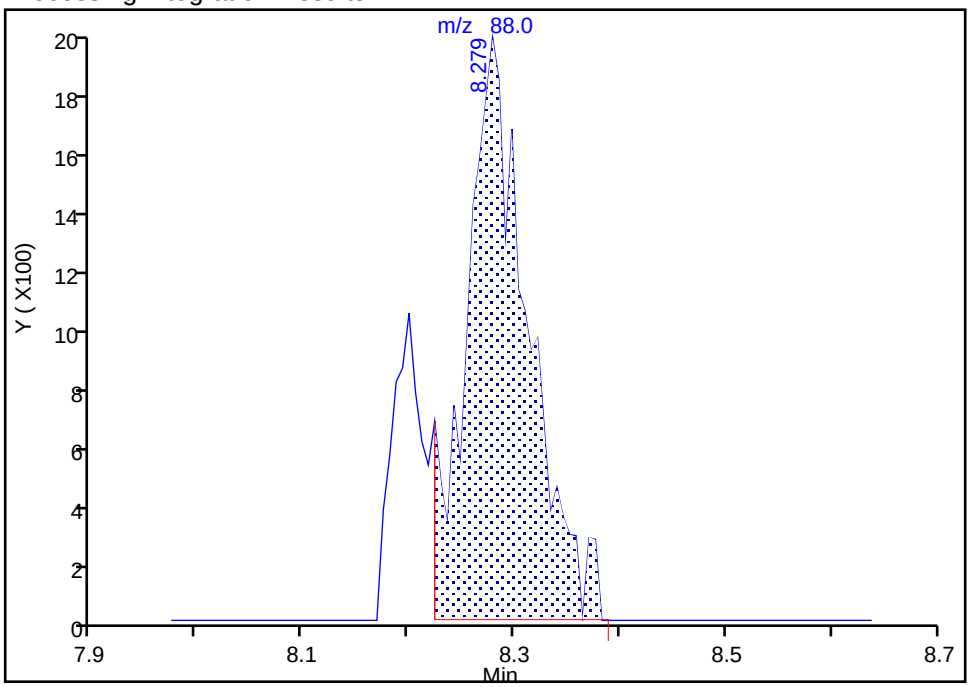
Data File:	\\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X12.D				
Injection Date:	21-May-2024 01:22:30	Instrument ID:	23297		
Lims ID:	IC v4				
Client ID:					
Operator ID:	MEC29284	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

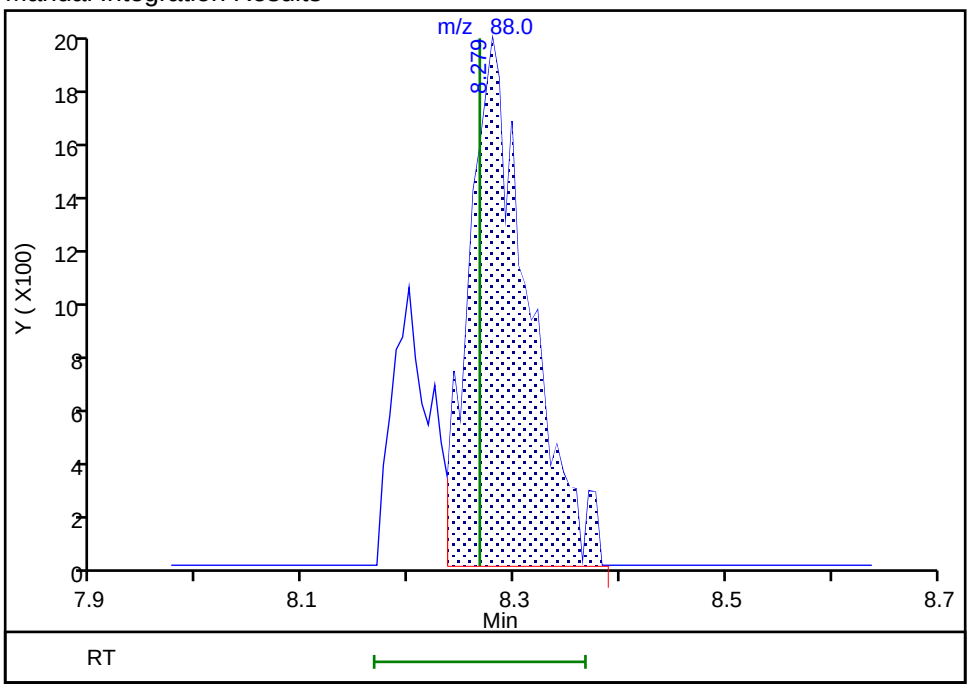
Processing Integration Results

RT: 8.28
Area: 7887
Amount: 53.790522
Amount Units: ug/l



Manual Integration Results

RT: 8.28
Area: 7483
Amount: 47.817260
Amount Units: ug/l



Reviewer: UKAD, 21-May-2024 11:26:33 -04:00:00 (UTC)

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

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X13.D
Lims ID: IC v10
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 21-May-2024 01:45:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0114468-014
Misc. Info.: IC 10
Operator ID: MEC29284 Instrument ID: 23297
Sublist: chrom-MSVoa_23297*sub95

Method: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 23-May-2024 08:34:58 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: UKAD Date: 21-May-2024 11:26:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.794	1.788	0.006	99	115377	10.0	10.1	
4 Chloromethane	50	1.971	1.964	0.007	99	126018	10.0	10.2	
5 Vinyl chloride	62	2.080	2.068	0.012	98	119374	10.0	10.4	
6 Butadiene	39	2.086	2.080	0.006	93	121254	10.0	10.7	
8 Bromomethane	94	2.390	2.378	0.012	90	88088	10.0	10.4	
9 Chloroethane	64	2.463	2.457	0.006	99	63542	10.0	10.3	
10 Dichlorofluoromethane	67	2.688	2.676	0.012	97	174586	10.0	10.3	
11 Trichlorofluoromethane	101	2.743	2.737	0.006	96	124720	10.0	10.3	
12 Pentane	43	2.786	2.767	0.019	97	92440	10.0	8.93	
13 Ethanol	45	2.871	2.877	-0.006	90	89943	500.0	475.3	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.047	3.047	0.000	93	90493	10.0	10.5	
16 Acrolein	56	3.108	3.102	0.006	99	254753	100.2	93.4	
17 1,1-Dichloroethene	96	3.254	3.248	0.006	98	57135	10.0	9.61	
18 Acetone	58	3.266	3.254	0.012	100	29298	20.0	19.3	M
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.279	3.279	0.001	90	61383	10.0	9.08	
21 Iodomethane	142	3.431	3.431	0.000	97	121672	10.0	9.73	
20 Isopropyl alcohol	45	3.437	3.437	0.000	41	72835	50.0	48.3	
22 Carbon disulfide	76	3.528	3.528	0.000	99	211599	10.0	9.52	
24 Methyl acetate	43	3.650	3.637	0.013	98	88499	10.0	9.86	
26 3-Chloro-1-propene	41	3.674	3.668	0.006	93	93822	10.0	9.54	
27 Methylene Chloride	84	3.857	3.850	0.006	92	71788	10.0	9.69	
* 28 t-Butyl alcohol-d10 (IS)	65	3.875	3.869	0.006	94	617662	250.0	250.0	
29 2-Methyl-2-propanol	59	3.996	3.984	0.012	98	119566	50.0	46.4	
30 Acrylonitrile	53	4.149	4.136	0.012	100	116277	25.0	24.4	
31 Methyl tert-butyl ether	73	4.215	4.209	0.006	95	214633	10.0	9.72	
32 trans-1,2-Dichloroethene	96	4.234	4.221	0.013	99	60255	10.0	9.53	
34 Hexane	57	4.653	4.647	0.006	93	76688	10.0	9.07	
35 1,1-Dichloroethane	63	4.885	4.878	0.007	97	105232	10.0	9.60	
37 Isopropyl ether	45	4.945	4.951	-0.006	95	210063	10.0	9.86	
38 2-Chloro-1,3-butadiene	53	5.000	4.988	0.012	90	89001	10.0	9.69	

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	5.493	5.493	0.000	98	205205	10.0	9.75	
40 2-Butanone (MEK)	43	5.712	5.706	0.006	100	139326	20.0	20.6	
41 cis-1,2-Dichloroethene	96	5.736	5.730	0.006	80	72981	10.0	9.95	
42 2,2-Dichloropropane	77	5.755	5.748	0.007	87	103107	10.0	9.53	
44 Propionitrile	54	5.791	5.791	0.000	97	111384	50.0	47.6	
45 Methyl acrylate	55	5.846	5.840	0.006	100	117488	10.0	9.55	
47 Methacrylonitrile	67	6.016	6.016	0.000	92	119775	25.0	25.1	
48 Chlorobromomethane	128	6.065	6.065	0.000	90	38184	10.0	10.1	
49 Tetrahydrofuran	71	6.089	6.083	0.006	93	97183	50.0	46.3	
S 46 1,2-Dichloroethene, Total	100				0			19.5	
50 Chloroform	83	6.229	6.229	0.000	93	135190	10.0	9.90	
$ 51 Dibromofluoromethane (Surr)	113	6.448	6.442	0.006	93	331242	50.0	50.9	
52 1,1,1-Trichloroethane	97	6.460	6.454	0.006	46	98556	10.0	9.61	
53 Cyclohexane	56	6.564	6.558	0.006	91	115577	10.0	9.24	
54 Carbon tetrachloride	117	6.673	6.673	0.000	95	80226	10.0	9.49	
55 1,1-Dichloropropene	75	6.673	6.673	0.000	95	84149	10.0	9.69	
56 Isobutyl alcohol	41	6.862	6.850	0.012	95	93568	125.0	112.2	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	6.910	6.904	0.006	85	80312	50.0	50.6	
58 Benzene	78	6.947	6.941	0.006	96	258680	10.0	9.78	
59 1,2-Dichloroethane	62	7.020	7.008	0.012	96	85539	10.0	9.97	
61 Tert-amyl methyl ether	73	7.142	7.142	0.000	98	206444	10.0	9.88	
* 62 Fluorobenzene (IS)	96	7.355	7.355	0.000	99	1290685	50.0	50.0	
63 n-Heptane	43	7.379	7.379	0.000	95	85576	10.0	9.13	
64 n-Butanol	56	7.762	7.756	0.006	90	76586	125.0	114.5	
66 Trichloroethene	95	7.841	7.841	0.000	98	65491	10.0	9.63	
67 Ethyl acrylate	55	7.969	7.969	0.000	99	120437	10.0	9.68	
68 Methylcyclohexane	83	8.152	8.151	0.001	91	114573	10.0	9.16	
69 1,2-Dichloropropane	63	8.176	8.176	0.000	97	66145	10.0	9.55	
70 2-ethoxy-2-methyl butane	87	8.200	8.194	0.006	93	97474	10.0	9.60	
73 1,4-Dioxane	88	8.279	8.267	0.012	34	21266	125.0	124.7	M
72 Methyl methacrylate	69	8.279	8.273	0.006	93	65903	10.0	9.45	
74 Dibromomethane	93	8.285	8.285	0.000	95	48229	10.0	9.95	
75 Dichlorobromomethane	83	8.529	8.529	0.000	99	80194	10.0	9.49	
76 2-Nitropropane	41	8.802	8.802	0.000	98	150463	50.0	45.3	
77 2-Chloroethyl vinyl ether	63	8.906	8.906	0.000	91	48170	10.0	9.62	
78 cis-1,3-Dichloropropene	75	9.101	9.094	0.007	96	102343	10.0	9.40	
79 4-Methyl-2-pentanone (MIBK)	43	9.289	9.289	0.000	96	264019	20.0	19.6	
$ 80 Toluene-d8 (Surr)	98	9.429	9.429	0.000	93	1308542	50.0	50.3	
81 Toluene	92	9.508	9.502	0.006	98	158893	10.0	9.69	
82 trans-1,3-Dichloropropene	75	9.782	9.782	0.000	92	93156	10.0	9.72	
100 Ethyl methacrylate	69	9.855	9.855	0.000	90	113844	10.0	9.91	
118 1,1,2-Trichloroethane	97	9.995	9.989	0.006	89	63369	10.0	9.85	
S 114 1,3-Dichloropropene, Total	100				0			19.1	
119 Tetrachloroethene	166	10.080	10.080	0.000	96	63850	10.0	9.35	
120 1,3-Dichloropropane	76	10.159	10.159	0.000	92	97643	10.0	9.64	
123 2-Hexanone	43	10.220	10.220	0.000	96	189253	20.0	20.5	
125 Chlorodibromomethane	129	10.384	10.378	0.006	91	66871	10.0	9.69	
127 Ethylene Dibromide	107	10.494	10.488	0.006	98	66864	10.0	9.93	
* 128 Chlorobenzene-d5 (IS)	117	10.938	10.938	0.000	85	967100	50.0	50.0	
129 1-Chlorohexane	91	10.956	10.956	0.000	99	80394	10.0	8.92	
130 Chlorobenzene	112	10.968	10.968	0.000	96	174328	10.0	9.52	
131 1,1,1,2-Tetrachloroethane	131	11.053	11.053	0.000	96	69602	10.0	9.77	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
132 Ethylbenzene	91	11.059	11.059	0.000	98	309108	10.0	9.80	
134 m-Xylene & p-Xylene	106	11.181	11.175	0.006	100	245982	20.0	19.6	
S 133 Xylenes, Total	106				0			29.3	
135 n-Butyl acrylate	55	11.473	11.467	0.006	97	170436	10.0	10.6	
136 o-Xylene	106	11.510	11.510	0.000	96	132710	10.0	9.71	
137 Styrene	104	11.528	11.528	0.000	95	201963	10.0	9.82	
138 Bromoform	173	11.680	11.680	0.000	97	50498	10.0	9.36	
139 Isopropylbenzene	105	11.820	11.820	0.000	95	320010	10.0	9.88	
141 Cyclohexanone	55	11.887	11.887	0.000	92	191001	250.0	246.4	
$ 142 4-Bromofluorobenzene (Surr)	95	11.960	11.960	0.000	91	484725	50.0	51.0	
143 1,1,2,2-Tetrachloroethane	83	12.069	12.069	0.000	94	122624	10.0	9.55	
144 Bromobenzene	156	12.081	12.075	0.006	96	80021	10.0	9.53	
145 trans-1,4-Dichloro-2-butene	53	12.094	12.094	0.000	93	85217	25.0	24.8	
146 1,2,3-Trichloropropane	110	12.112	12.112	0.000	82	35669	10.0	9.76	
147 N-Propylbenzene	91	12.154	12.154	0.000	99	382324	10.0	9.62	
148 2-Chlorotoluene	126	12.227	12.227	0.000	97	79995	10.0	9.22	
149 1,3,5-Trimethylbenzene	105	12.294	12.294	0.000	93	286833	10.0	9.36	
150 4-Chlorotoluene	126	12.319	12.319	0.000	97	79357	10.0	9.46	
153 tert-Butylbenzene	134	12.538	12.538	0.000	92	53607	10.0	9.03	
155 1,2,4-Trimethylbenzene	105	12.580	12.580	0.000	97	292174	10.0	9.36	
156 sec-Butylbenzene	105	12.702	12.702	0.000	94	366046	10.0	9.42	
158 1,3-Dichlorobenzene	146	12.799	12.793	0.006	98	159969	10.0	9.67	
159 4-Isopropyltoluene	119	12.812	12.811	0.001	98	325812	10.0	9.48	
* 160 1,4-Dichlorobenzene-d4	152	12.854	12.854	0.000	93	588649	50.0	50.0	
161 1,4-Dichlorobenzene	146	12.872	12.872	0.000	95	161133	10.0	9.66	
162 1,2,3-Trimethylbenzene	105	12.885	12.884	0.001	98	316327	10.0	9.41	
163 Benzyl chloride	91	12.945	12.945	0.000	98	238878	10.0	9.59	
164 1,3-Diethylbenzene	119	13.012	13.012	0.000	95	192852	10.0	9.40	
165 p-Diethylbenzene	119	13.085	13.085	0.000	94	205596	10.0	9.58	
166 n-Butylbenzene	92	13.104	13.103	0.001	97	164197	10.0	9.50	
167 1,2-Dichlorobenzene	146	13.134	13.128	0.006	99	169443	10.0	9.60	
168 o-diethylbenzene	119	13.158	13.158	0.000	94	160941	10.0	9.33	
170 1,2-Dibromo-3-Chloropropane	75	13.675	13.675	0.000	88	36935	10.0	9.59	
171 1,3,5-Trichlorobenzene	180	13.803	13.803	0.000	98	133437	10.0	9.62	
172 1,2,4-Trichlorobenzene	180	14.229	14.229	0.000	94	134967	10.0	9.75	
173 2-Ethylhexyl acrylate	55	14.296	14.296	0.000	80	105786	10.0	8.82	
174 Hexachlorobutadiene	225	14.314	14.314	0.000	95	51081	10.0	9.54	
175 Naphthalene	128	14.405	14.405	0.000	97	515807	10.0	10.1	
176 1,2,3-Trichlorobenzene	180	14.551	14.551	0.000	97	133956	10.0	9.74	
177 2-Methylnaphthalene	142	15.154	15.154	0.000	92	261990	10.0	9.93	
S 186 Total Diethylbenzene	1				0			28.3	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00184	Amount Added:	2.00	Units: uL	
MSV_CCV_VOC#3_00180	Amount Added:	1.60	Units: uL	
MSV_CCV_2CEVE_00176	Amount Added:	2.00	Units: uL	
MSV_CCV_ETOH_00006	Amount Added:	8.00	Units: uL	
MSV_CCV_GASES_00772	Amount Added:	1.00	Units: uL	
MSV_CCV_CYC_00008	Amount Added:	8.00	Units: uL	
MSV_CCV_OH_Sp_00007	Amount Added:	2.00	Units: uL	
MSV_HP04_ISSS_00003	Amount Added:	1.00	Units: uL	Run Reagent

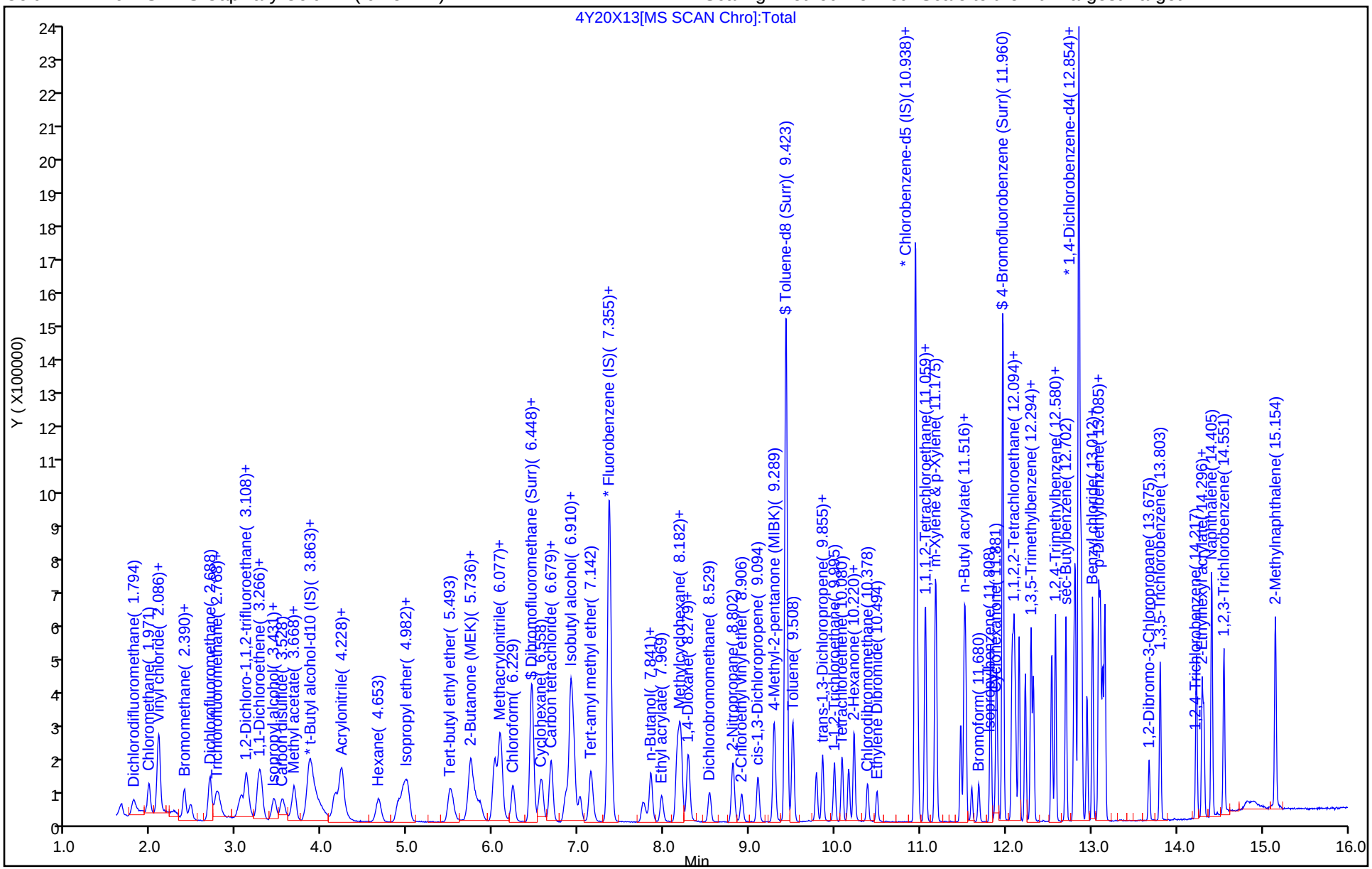
Report Date: 23-May-2024 08:34:58 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X13.D

Injection Date:	21-May-2024 01:45:30	Instrument ID:	23297	Operator ID:	MEC29284
Lims ID:	IC v10			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

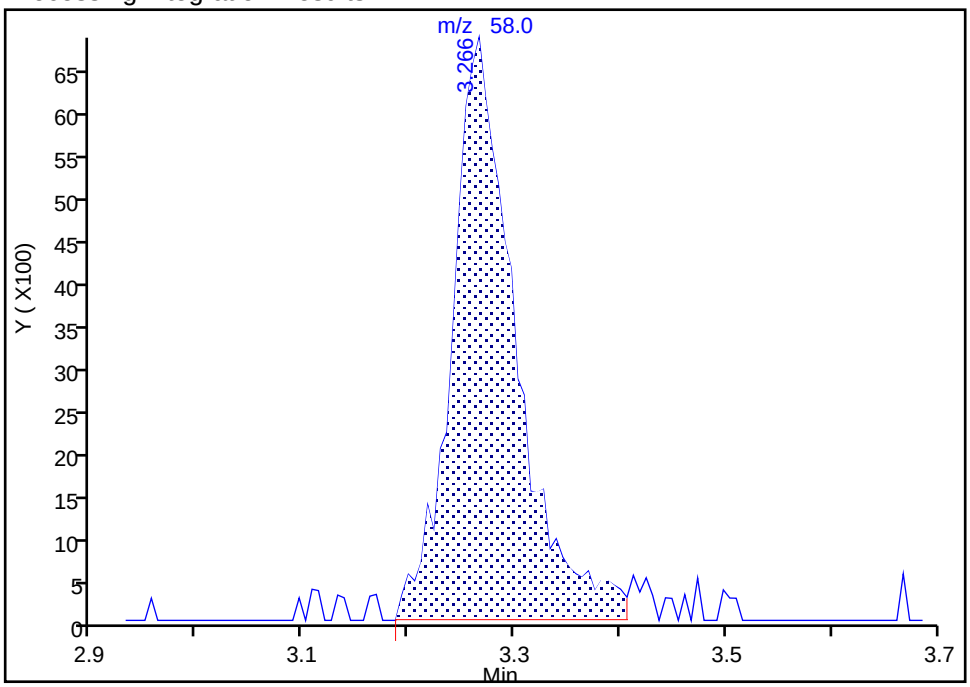
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X13.D
Injection Date: 21-May-2024 01:45:30 Instrument ID: 23297
Lims ID: IC v10
Client ID:
Operator ID: MEC29284 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

18 Acetone, CAS: 67-64-1

Signal: 1

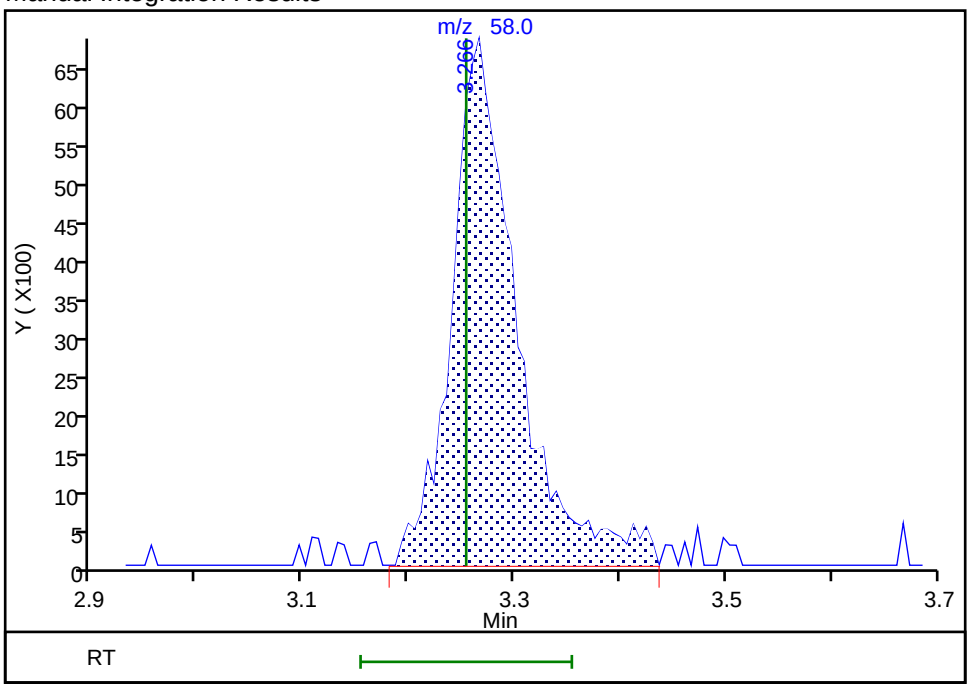
Processing Integration Results

RT: 3.27
Area: 28697
Amount: 19.060445
Amount Units: ug/l



Manual Integration Results

RT: 3.27
Area: 29298
Amount: 19.332054
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 17:14:42 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

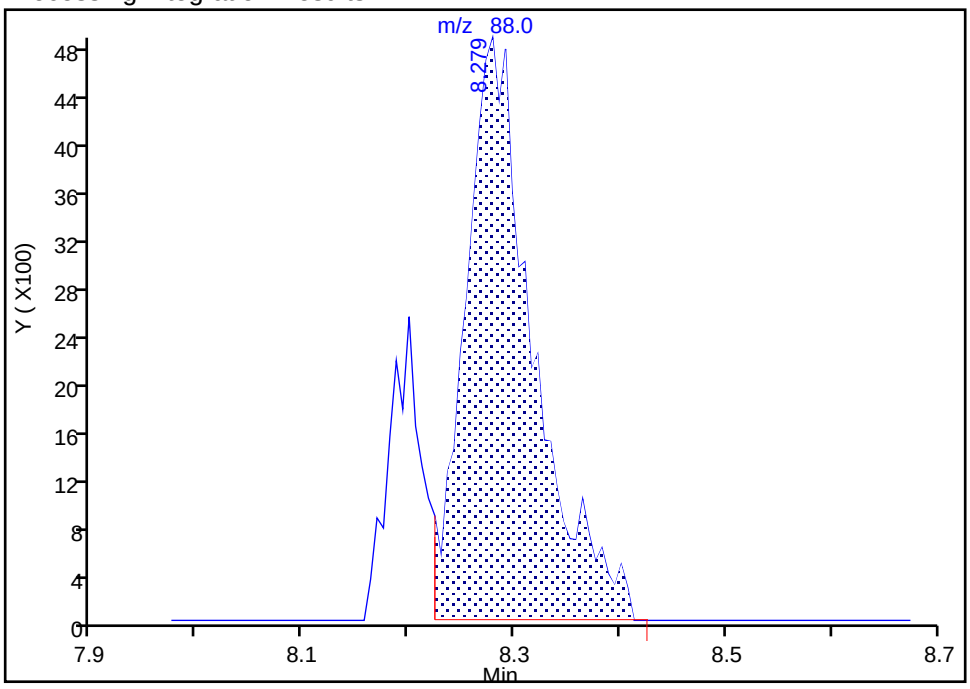
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X13.D
Injection Date: 21-May-2024 01:45:30 Instrument ID: 23297
Lims ID: IC v10
Client ID:
Operator ID: MEC29284 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

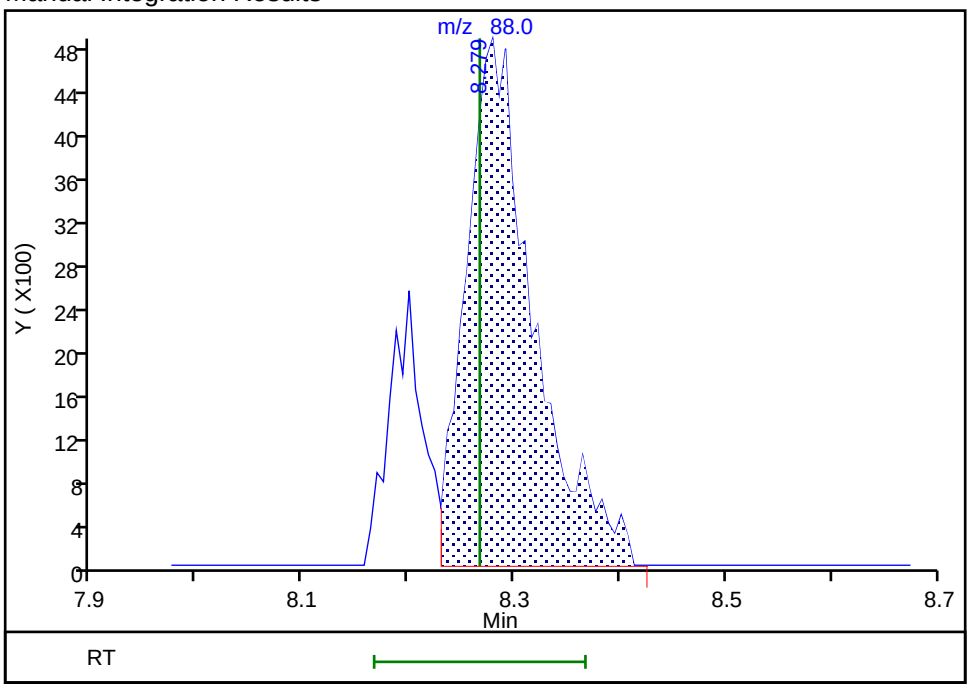
Processing Integration Results

RT: 8.28
Area: 21582
Amount: 134.7847
Amount Units: ug/l



Manual Integration Results

RT: 8.28
Area: 21266
Amount: 124.7184
Amount Units: ug/l



Reviewer: UKAD, 21-May-2024 11:26:09 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X14.D
Lims ID: IC v20
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 21-May-2024 02:07:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0114468-015
Misc. Info.: IC 20
Operator ID: MEC29284 Instrument ID: 23297
Sublist: chrom-MSVoa_23297*sub95

Method: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 23-May-2024 08:35:02 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: UKAD Date: 21-May-2024 11:23:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.800	1.800	0.000	99	229875	20.0	20.9	
4 Chloromethane	50	1.977	1.977	0.000	99	238588	20.0	20.0	
5 Vinyl chloride	62	2.080	2.080	0.000	98	233390	20.0	21.0	
6 Butadiene	39	2.092	2.092	0.000	93	224927	20.0	20.6	
8 Bromomethane	94	2.390	2.390	0.000	91	167482	20.0	20.5	
9 Chloroethane	64	2.463	2.463	0.000	100	123629	20.0	20.8	
10 Dichlorofluoromethane	67	2.688	2.688	0.000	97	339449	20.0	20.9	
11 Trichlorofluoromethane	101	2.749	2.749	0.000	98	248070	20.0	21.2	
12 Pentane	43	2.786	2.786	0.000	97	208456	20.0	20.9	
13 Ethanol	45	2.889	2.889	0.000	95	180492	1000.0	1027.0	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.053	3.053	0.000	93	171023	20.0	20.5	
16 Acrolein	56	3.114	3.114	0.000	100	509050	200.4	201.0	
17 1,1-Dichloroethene	96	3.260	3.260	0.000	98	122704	20.0	21.4	
18 Acetone	58	3.272	3.272	0.000	99	55370	40.0	39.3	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.285	3.285	0.000	91	141086	20.0	21.6	
21 Iodomethane	142	3.443	3.443	0.000	98	255333	20.0	21.2	
20 Isopropyl alcohol	45	3.443	3.443	0.000	96	140217	100.0	100.1	M
22 Carbon disulfide	76	3.540	3.540	0.000	100	456853	20.0	21.3	
24 Methyl acetate	43	3.656	3.656	0.000	98	179488	20.0	20.7	
26 3-Chloro-1-propene	41	3.680	3.680	0.000	93	199132	20.0	21.0	
27 Methylene Chloride	84	3.857	3.857	0.000	94	146922	20.0	20.6	
* 28 t-Butyl alcohol-d10 (IS)	65	3.887	3.887	0.000	97	573614	250.0	250.0	
29 2-Methyl-2-propanol	59	3.996	3.996	0.000	99	240866	100.0	100.7	
30 Acrylonitrile	53	4.155	4.155	0.000	99	247651	50.0	53.8	
31 Methyl tert-butyl ether	73	4.234	4.234	0.000	88	446807	20.0	21.0	
32 trans-1,2-Dichloroethene	96	4.240	4.240	0.000	99	128605	20.0	21.1	
34 Hexane	57	4.666	4.666	0.000	93	173930	20.0	21.3	
35 1,1-Dichloroethane	63	4.897	4.897	0.000	96	228348	20.0	21.6	
37 Isopropyl ether	45	4.952	4.952	0.000	95	426439	20.0	20.8	
38 2-Chloro-1,3-butadiene	53	5.006	5.006	0.000	89	192460	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	5.511	5.511	0.000	98	427647	20.0	21.1	
40 2-Butanone (MEK)	43	5.718	5.718	0.000	100	271607	40.0	41.6	
41 cis-1,2-Dichloroethene	96	5.736	5.736	0.000	82	148544	20.0	21.0	
42 2,2-Dichloropropane	77	5.761	5.761	0.000	90	217765	20.0	20.9	
44 Propionitrile	54	5.809	5.809	0.000	96	223879	100.0	103.0	
45 Methyl acrylate	55	5.852	5.852	0.000	100	239034	20.0	20.2	
47 Methacrylonitrile	67	6.022	6.022	0.000	92	237694	50.0	51.7	
48 Chlorobromomethane	128	6.071	6.071	0.000	94	77542	20.0	21.2	
49 Tetrahydrofuran	71	6.095	6.095	0.000	93	196800	100.0	101.0	
S 46 1,2-Dichloroethene, Total	100				0			42.1	
50 Chloroform	83	6.235	6.235	0.000	92	251216	20.0	21.1	
$ 51 Dibromofluoromethane (Surr)	113	6.454	6.454	0.000	94	316080	50.0	50.4	
52 1,1,1-Trichloroethane	97	6.460	6.460	0.000	97	206574	20.0	20.9	
53 Cyclohexane	56	6.570	6.570	0.000	91	259104	20.0	21.5	
54 Carbon tetrachloride	117	6.673	6.673	0.000	96	176660	20.0	21.7	
55 1,1-Dichloropropene	75	6.685	6.685	0.000	96	179040	20.0	21.4	
56 Isobutyl alcohol	41	6.862	6.862	0.000	95	190463	250.0	245.9	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	6.910	6.910	0.000	91	76431	50.0	50.0	
58 Benzene	78	6.947	6.947	0.000	97	540155	20.0	21.2	
59 1,2-Dichloroethane	62	7.020	7.020	0.000	96	173682	20.0	21.0	
61 Tert-amyl methyl ether	73	7.142	7.142	0.000	98	418610	20.0	20.8	
* 62 Fluorobenzene (IS)	96	7.361	7.361	0.000	99	1244219	50.0	50.0	
63 n-Heptane	43	7.385	7.385	0.000	94	188320	20.0	20.9	
64 n-Butanol	56	7.762	7.762	0.000	88	156206	250.0	251.5	
66 Trichloroethene	95	7.847	7.847	0.000	98	139759	20.0	21.3	
67 Ethyl acrylate	55	7.975	7.975	0.000	99	233315	20.0	19.4	
68 Methylcyclohexane	83	8.158	8.158	0.000	92	255822	20.0	21.2	
69 1,2-Dichloropropane	63	8.182	8.182	0.000	97	139073	20.0	20.8	
70 2-ethoxy-2-methyl butane	87	8.200	8.200	0.000	93	208392	20.0	21.3	
73 1,4-Dioxane	88	8.273	8.273	0.000	57	40214	250.0	254.0	M
72 Methyl methacrylate	69	8.273	8.273	0.000	93	136594	20.0	20.3	
74 Dibromomethane	93	8.291	8.291	0.000	96	96815	20.0	20.7	
75 Dichlorobromomethane	83	8.535	8.535	0.000	99	169422	20.0	20.8	
76 2-Nitropropane	41	8.802	8.802	0.000	97	303700	100.0	98.5	
77 2-Chloroethyl vinyl ether	63	8.912	8.912	0.000	90	97626	20.0	20.2	
78 cis-1,3-Dichloropropene	75	9.094	9.094	0.000	97	216136	20.0	20.6	
79 4-Methyl-2-pentanone (MIBK)	43	9.289	9.289	0.000	97	525948	40.0	40.5	
$ 80 Toluene-d8 (Surr)	98	9.429	9.429	0.000	93	1259612	50.0	50.9	
81 Toluene	92	9.508	9.508	0.000	98	338860	20.0	21.7	
82 trans-1,3-Dichloropropene	75	9.782	9.782	0.000	92	193522	20.0	21.2	
100 Ethyl methacrylate	69	9.855	9.855	0.000	90	231907	20.0	21.2	
118 1,1,2-Trichloroethane	97	9.995	9.995	0.000	90	129431	20.0	21.2	
S 114 1,3-Dichloropropene, Total	100				0			41.8	
119 Tetrachloroethene	166	10.086	10.086	0.000	97	143821	20.0	22.2	
120 1,3-Dichloropropane	76	10.159	10.159	0.000	91	200124	20.0	20.8	
123 2-Hexanone	43	10.220	10.220	0.000	96	368839	40.0	42.1	
125 Chlorodibromomethane	129	10.378	10.378	0.000	90	138568	20.0	21.1	
127 Ethylene Dibromide	107	10.488	10.488	0.000	99	133486	20.0	20.9	
* 128 Chlorobenzene-d5 (IS)	117	10.938	10.938	0.000	85	919092	50.0	50.0	
129 1-Chlorohexane	91	10.956	10.956	0.000	98	179397	20.0	20.9	
130 Chlorobenzene	112	10.968	10.968	0.000	97	370579	20.0	21.3	
131 1,1,1,2-Tetrachloroethane	131	11.053	11.053	0.000	97	147981	20.0	21.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
132 Ethylbenzene	91	11.059	11.059	0.000	98	660065	20.0	22.0	
134 m-Xylene & p-Xylene	106	11.175	11.175	0.000	99	527154	40.0	44.1	
S 133 Xylenes, Total	106				0			65.8	
135 n-Butyl acrylate	55	11.467	11.467	0.000	97	335519	20.0	21.9	
136 o-Xylene	106	11.516	11.516	0.000	96	281993	20.0	21.7	
137 Styrene	104	11.528	11.528	0.000	95	420966	20.0	21.5	
138 Bromoform	173	11.680	11.680	0.000	97	107009	20.0	20.9	
139 Isopropylbenzene	105	11.820	11.820	0.000	95	686374	20.0	22.3	
141 Cyclohexanone	55	11.887	11.887	0.000	92	380073	500.0	528.0	
$ 142 4-Bromofluorobenzene (Surr)	95	11.960	11.960	0.000	91	448475	50.0	49.6	
143 1,1,2,2-Tetrachloroethane	83	12.069	12.069	0.000	94	247914	20.0	20.7	
144 Bromobenzene	156	12.075	12.075	0.000	97	165907	20.0	21.2	
145 trans-1,4-Dichloro-2-butene	53	12.094	12.094	0.000	91	169617	50.0	52.9	
146 1,2,3-Trichloropropane	110	12.112	12.112	0.000	82	69645	20.0	20.4	
147 N-Propylbenzene	91	12.155	12.155	0.000	99	811875	20.0	21.9	
148 2-Chlorotoluene	126	12.228	12.228	0.000	97	171964	20.0	21.2	
149 1,3,5-Trimethylbenzene	105	12.294	12.294	0.000	94	624275	20.0	21.8	
150 4-Chlorotoluene	126	12.319	12.319	0.000	97	161022	20.0	20.6	
153 tert-Butylbenzene	134	12.538	12.538	0.000	92	120262	20.0	21.7	
155 1,2,4-Trimethylbenzene	105	12.580	12.580	0.000	97	636738	20.0	21.9	
156 sec-Butylbenzene	105	12.702	12.702	0.000	94	796016	20.0	22.0	
158 1,3-Dichlorobenzene	146	12.793	12.793	0.000	98	330165	20.0	21.4	
159 4-Isopropyltoluene	119	12.812	12.812	0.000	97	696395	20.0	21.7	
* 160 1,4-Dichlorobenzene-d4	152	12.854	12.854	0.000	93	549454	50.0	50.0	
161 1,4-Dichlorobenzene	146	12.872	12.872	0.000	95	332699	20.0	21.4	
162 1,2,3-Trimethylbenzene	105	12.885	12.885	0.000	98	678008	20.0	21.6	
163 Benzyl chloride	91	12.945	12.945	0.000	98	484109	20.0	20.8	
164 1,3-Diethylbenzene	119	13.012	13.012	0.000	95	415654	20.0	21.7	
165 p-Diethylbenzene	119	13.085	13.085	0.000	94	436079	20.0	21.8	
166 n-Butylbenzene	92	13.104	13.104	0.000	97	351478	20.0	21.8	
167 1,2-Dichlorobenzene	146	13.134	13.134	0.000	99	348453	20.0	21.2	
168 o-diethylbenzene	119	13.158	13.158	0.000	94	349755	20.0	21.7	
170 1,2-Dibromo-3-Chloropropane	75	13.675	13.675	0.000	88	73973	20.0	20.6	
171 1,3,5-Trichlorobenzene	180	13.803	13.803	0.000	97	278587	20.0	21.5	
172 1,2,4-Trichlorobenzene	180	14.229	14.229	0.000	94	275929	20.0	21.4	
173 2-Ethylhexyl acrylate	55	14.296	14.296	0.000	80	228563	20.0	20.4	
174 Hexachlorobutadiene	225	14.314	14.314	0.000	96	107004	20.0	21.4	
175 Naphthalene	128	14.405	14.405	0.000	97	1026618	20.0	21.6	
176 1,2,3-Trichlorobenzene	180	14.551	14.551	0.000	96	273841	20.0	21.3	
177 2-Methylnaphthalene	142	15.154	15.154	0.000	93	535610	20.0	21.8	
S 186 Total Diethylbenzene	1				0			65.2	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00184	Amount Added:	4.00	Units: uL	
MSV_CCV_VOC#3_00180	Amount Added:	3.20	Units: uL	
MSV_CCV_2CEVE_00176	Amount Added:	4.00	Units: uL	
MSV_CCV_ETOH_00006	Amount Added:	16.00	Units: uL	
MSV_CCV_GASES_00772	Amount Added:	2.00	Units: uL	
MSV_CCV_CYC_00008	Amount Added:	16.00	Units: uL	
MSV_CCV_OH_Sp_00007	Amount Added:	4.00	Units: uL	
MSV_HP04_ISSS_00003	Amount Added:	1.00	Units: uL	Run Reagent

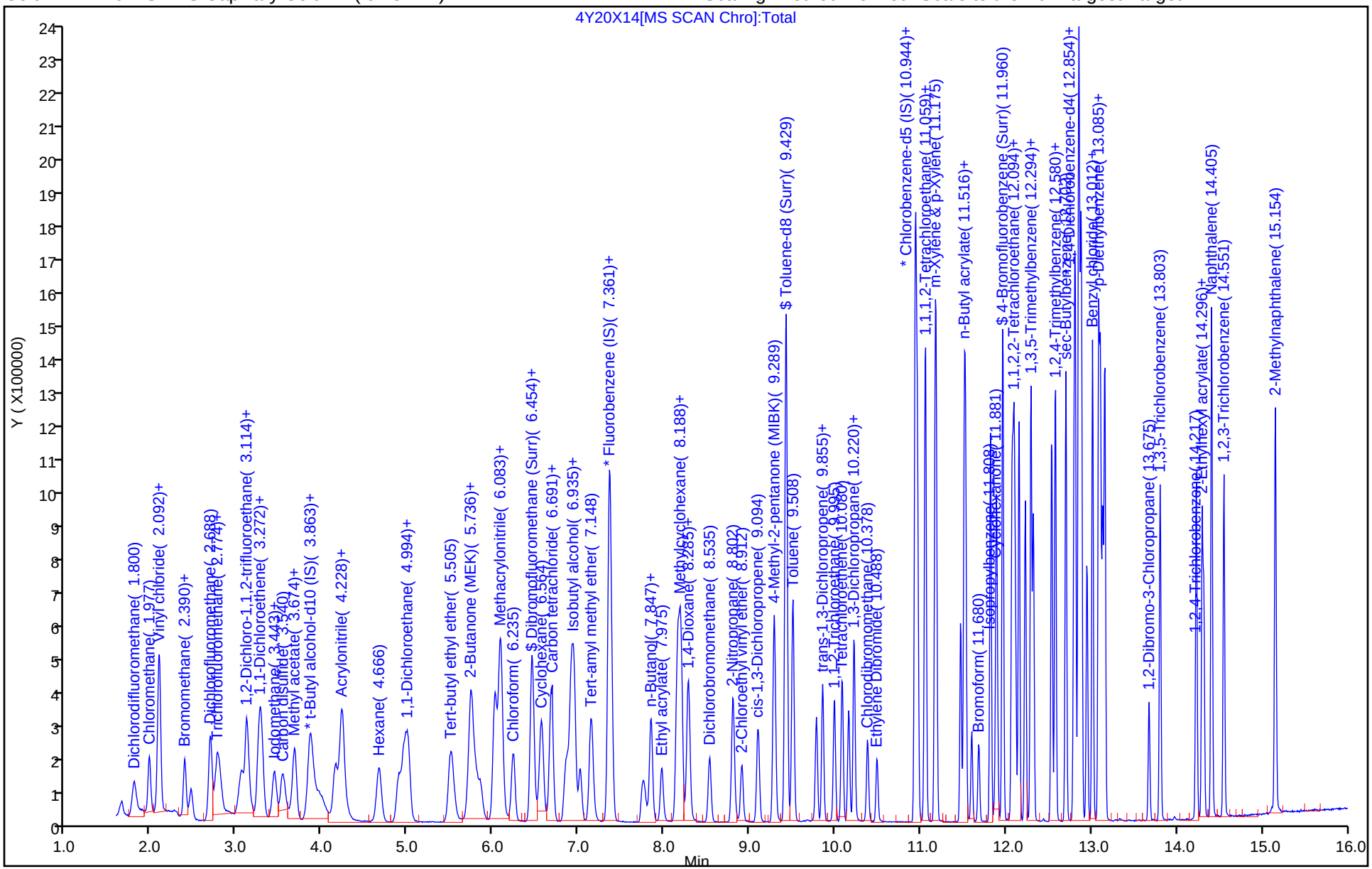
Report Date: 23-May-2024 08:35:03 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X14.D

Injection Date:	21-May-2024 02:07:30	Instrument ID:	23297	Operator ID:	MEC29284
Lims ID:	IC v20			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

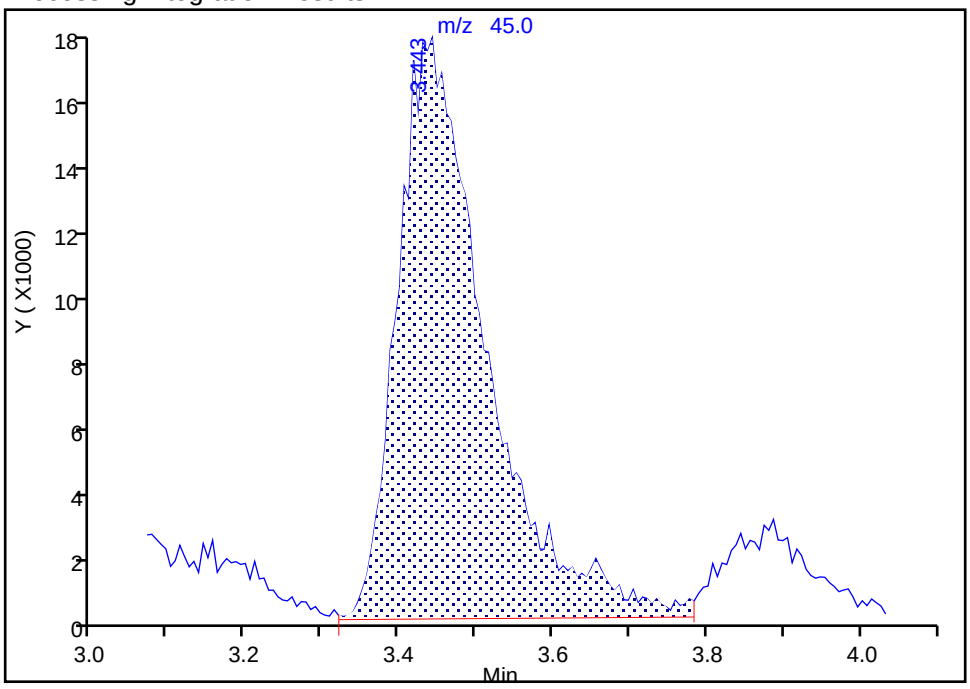
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X14.D
Injection Date: 21-May-2024 02:07:30 Instrument ID: 23297
Lims ID: IC v20
Client ID:
Operator ID: MEC29284 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

20 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

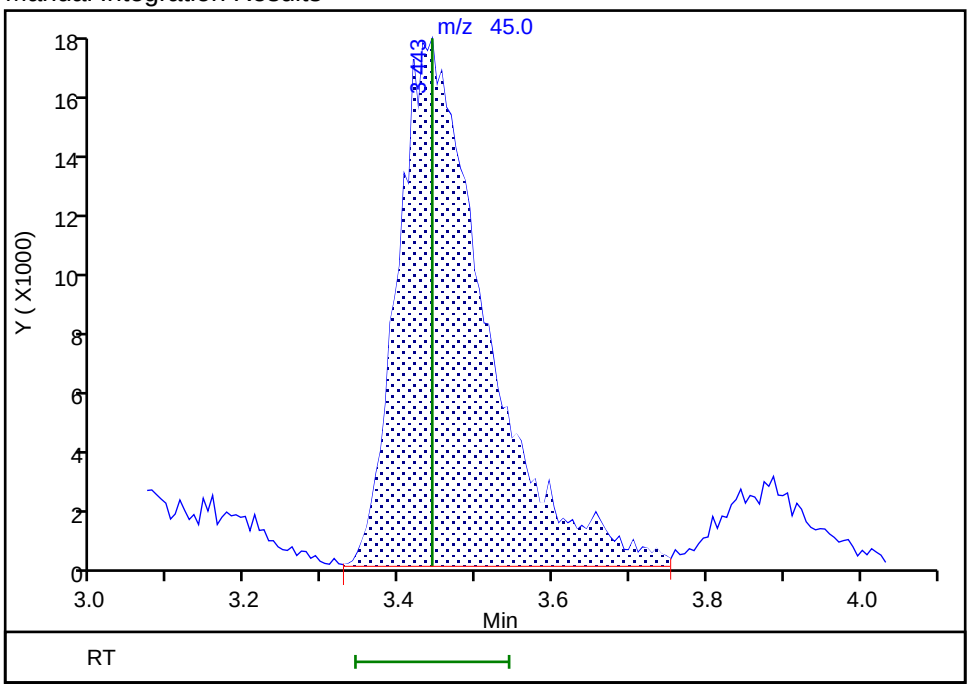
Processing Integration Results

RT: 3.44
Area: 142173
Amount: 97.686401
Amount Units: ug/l



Manual Integration Results

RT: 3.44
Area: 140217
Amount: 100.0565
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 17:05:14 -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

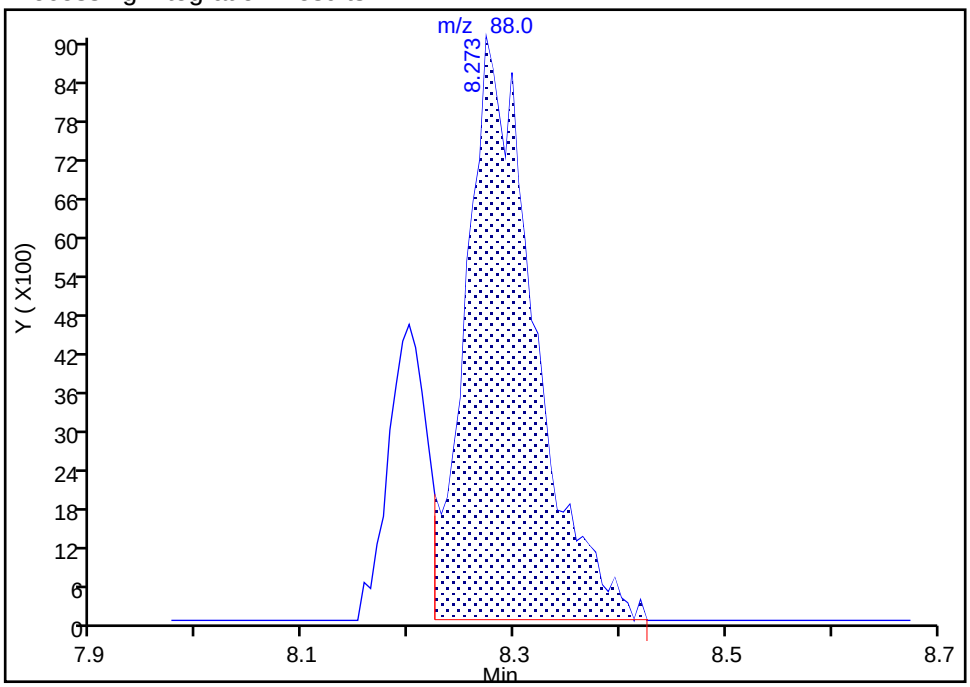
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X14.D
Injection Date: 21-May-2024 02:07:30 Instrument ID: 23297
Lims ID: IC v20
Client ID:
Operator ID: MEC29284 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

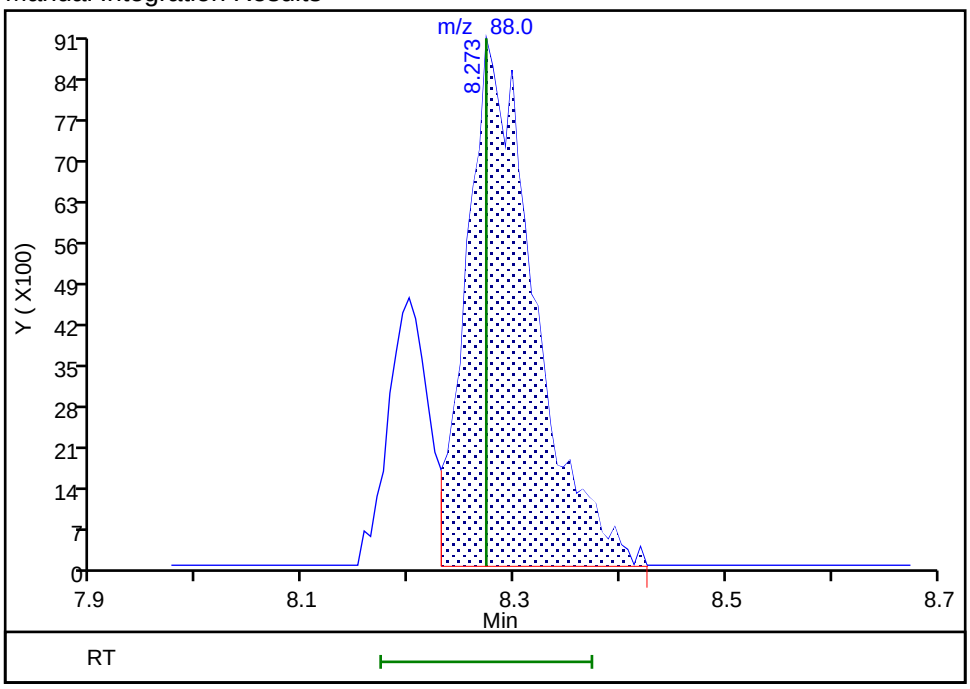
Processing Integration Results

RT: 8.27
Area: 40923
Amount: 274.4517
Amount Units: ug/l



Manual Integration Results

RT: 8.27
Area: 40214
Amount: 253.9528
Amount Units: ug/l



Reviewer: UKAD, 21-May-2024 11:25:53 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X15.D
Lims ID: ICIS v50
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 21-May-2024 02:30:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0114468-016
Misc. Info.: IC 50
Operator ID: MEC29284 Instrument ID: 23297
Sublist: chrom-MSVoa_23297*sub95

Method: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 23-May-2024 08:35:07 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: UKAD Date: 21-May-2024 11:22:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.788	1.788	0.000	99	564095	50.0	50.7	
4 Chloromethane	50	1.964	1.964	0.000	99	577606	50.0	47.9	
5 Vinyl chloride	62	2.068	2.068	0.000	98	561770	50.0	50.0	
6 Butadiene	39	2.080	2.080	0.000	92	549055	50.0	49.7	
8 Bromomethane	94	2.378	2.378	0.000	90	398785	50.0	48.1	
9 Chloroethane	64	2.457	2.457	0.000	100	297214	50.0	49.4	
10 Dichlorofluoromethane	67	2.676	2.676	0.000	97	817631	50.0	49.6	
11 Trichlorofluoromethane	101	2.737	2.737	0.000	98	606813	50.0	51.3	
12 Pentane	43	2.767	2.767	0.000	97	509688	50.0	50.5	
13 Ethanol	45	2.877	2.877	0.000	97	222785	1250.0	1269.3	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.047	3.047	0.000	92	414601	50.0	49.2	
16 Acrolein	56	3.102	3.102	0.000	100	1292814	501.1	511.1	
17 1,1-Dichloroethene	96	3.248	3.248	0.000	98	294228	50.0	50.7	
18 Acetone	58	3.254	3.254	0.000	100	142310	100.0	101.2	M
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.279	3.279	0.000	91	349417	50.0	53.0	
21 Iodomethane	142	3.431	3.431	0.000	97	624893	50.0	51.3	
20 Isopropyl alcohol	45	3.437	3.437	0.000	33	343735	250.0	245.6	M
22 Carbon disulfide	76	3.528	3.528	0.000	99	1116321	50.0	51.5	
24 Methyl acetate	43	3.637	3.637	0.000	98	430789	50.0	49.2	
26 3-Chloro-1-propene	41	3.668	3.668	0.000	93	480858	50.0	50.1	
27 Methylene Chloride	84	3.850	3.850	0.000	92	360721	50.0	49.9	
* 28 t-Butyl alcohol-d10 (IS)	65	3.869	3.869	0.000	96	572863	250.0	250.0	
29 2-Methyl-2-propanol	59	3.984	3.984	0.000	98	594104	250.0	248.7	
30 Acrylonitrile	53	4.136	4.136	0.000	99	592904	125.0	127.4	
31 Methyl tert-butyl ether	73	4.209	4.209	0.000	92	1102118	50.0	51.1	
32 trans-1,2-Dichloroethene	96	4.221	4.221	0.000	99	306391	50.0	49.7	
34 Hexane	57	4.647	4.647	0.000	93	422065	50.0	51.2	
35 1,1-Dichloroethane	63	4.878	4.878	0.000	96	555348	50.0	51.9	
37 Isopropyl ether	45	4.951	4.951	0.000	95	1064212	50.0	51.2	
38 2-Chloro-1,3-butadiene	53	4.988	4.988	0.000	90	462978	50.0	51.7	

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	5.493	5.493	0.000	98	1045210	50.0	50.9	
40 2-Butanone (MEK)	43	5.706	5.706	0.000	99	702878	100.0	106.3	
41 cis-1,2-Dichloroethene	96	5.730	5.730	0.000	81	358903	50.0	50.2	
42 2,2-Dichloropropane	77	5.748	5.748	0.000	87	509244	50.0	48.3	
44 Propionitrile	54	5.791	5.791	0.000	96	560472	250.0	258.3	
45 Methyl acrylate	55	5.840	5.840	0.000	100	601961	50.0	50.2	
47 Methacrylonitrile	67	6.016	6.016	0.000	94	588323	125.0	126.4	
48 Chlorobromomethane	128	6.065	6.065	0.000	93	186928	50.0	50.6	
49 Tetrahydrofuran	71	6.083	6.083	0.000	93	499278	250.0	256.6	
50 Chloroform	83	6.229	6.229	0.000	93	570089	50.0	50.1	
$ 51 Dibromofluoromethane (Surr)	113	6.442	6.442	0.000	95	312899	50.0	49.3	
52 1,1,1-Trichloroethane	97	6.454	6.454	0.000	98	510993	50.0	51.1	
53 Cyclohexane	56	6.558	6.558	0.000	90	627459	50.0	51.5	
54 Carbon tetrachloride	117	6.673	6.673	0.000	83	434752	50.0	52.7	
55 1,1-Dichloropropene	75	6.673	6.673	0.000	96	435082	50.0	51.3	
56 Isobutyl alcohol	41	6.850	6.850	0.000	95	483723	625.0	625.4	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	6.904	6.904	0.000	93	75737	50.0	48.9	
58 Benzene	78	6.941	6.941	0.000	96	1321837	50.0	51.2	
59 1,2-Dichloroethane	62	7.008	7.008	0.000	97	424901	50.0	50.8	
61 Tert-amyl methyl ether	73	7.142	7.142	0.000	98	1041836	50.0	51.1	
* 62 Fluorobenzene (IS)	96	7.355	7.355	0.000	99	1258986	50.0	50.0	
63 n-Heptane	43	7.379	7.379	0.000	93	479468	50.0	52.5	
64 n-Butanol	56	7.756	7.756	0.000	90	399561	625.0	644.1	
66 Trichloroethene	95	7.841	7.841	0.000	97	339522	50.0	51.2	
67 Ethyl acrylate	55	7.969	7.969	0.000	99	614599	50.0	50.6	
68 Methylcyclohexane	83	8.151	8.151	0.000	92	645944	50.0	52.9	
69 1,2-Dichloropropane	63	8.176	8.176	0.000	98	354009	50.0	52.4	
70 2-ethoxy-2-methyl butane	87	8.194	8.194	0.000	92	504882	50.0	51.0	
73 1,4-Dioxane	88	8.267	8.267	0.000	33	100772	625.0	637.2	M
72 Methyl methacrylate	69	8.273	8.273	0.000	92	347156	50.0	51.1	
74 Dibromomethane	93	8.285	8.285	0.000	95	240210	50.0	50.8	
75 Dichlorobromomethane	83	8.529	8.529	0.000	100	419908	50.0	50.9	
76 2-Nitropropane	41	8.802	8.802	0.000	97	795993	250.0	258.5	
77 2-Chloroethyl vinyl ether	63	8.906	8.906	0.000	91	255709	50.0	52.3	
78 cis-1,3-Dichloropropene	75	9.094	9.094	0.000	96	554164	50.0	52.2	
79 4-Methyl-2-pentanone (MIBK)	43	9.289	9.289	0.000	96	1334771	100.0	101.6	
$ 80 Toluene-d8 (Surr)	98	9.429	9.429	0.000	93	1288817	50.0	50.0	
81 Toluene	92	9.502	9.502	0.000	98	846997	50.0	52.1	
82 trans-1,3-Dichloropropene	75	9.782	9.782	0.000	92	495440	50.0	52.2	
100 Ethyl methacrylate	69	9.855	9.855	0.000	90	593679	50.0	52.2	
118 1,1,2-Trichloroethane	97	9.989	9.989	0.000	90	324413	50.0	50.9	
119 Tetrachloroethene	166	10.080	10.080	0.000	97	361461	50.0	53.5	
120 1,3-Dichloropropane	76	10.159	10.159	0.000	91	525666	50.0	52.4	
123 2-Hexanone	43	10.220	10.220	0.000	96	958484	100.0	105.1	
125 Chlorodibromomethane	129	10.378	10.378	0.000	90	361914	50.0	52.9	
127 Ethylene Dibromide	107	10.488	10.488	0.000	99	351986	50.0	52.7	
* 128 Chlorobenzene-d5 (IS)	117	10.938	10.938	0.000	85	957938	50.0	50.0	
129 1-Chlorohexane	91	10.956	10.956	0.000	98	451158	50.0	50.5	
130 Chlorobenzene	112	10.968	10.968	0.000	96	942749	50.0	52.0	
131 1,1,1,2-Tetrachloroethane	131	11.053	11.053	0.000	97	374568	50.0	53.1	
132 Ethylbenzene	91	11.059	11.059	0.000	98	1648946	50.0	52.8	
134 m-Xylene & p-Xylene	106	11.175	11.175	0.000	99	1312547	100.0	105.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 n-Butyl acrylate	55	11.467	11.467	0.000	98	823002	50.0	51.5	
136 o-Xylene	106	11.510	11.510	0.000	96	701811	50.0	51.8	
137 Styrene	104	11.528	11.528	0.000	95	1055038	50.0	51.8	
138 Bromoform	173	11.680	11.680	0.000	97	277902	50.0	52.0	
139 Isopropylbenzene	105	11.820	11.820	0.000	95	1696117	50.0	52.8	
141 Cyclohexanone	55	11.887	11.887	0.000	92	477691	625.0	664.5	
$ 142 4-Bromofluorobenzene (Surr)	95	11.960	11.960	0.000	90	473305	50.0	50.2	
143 1,1,2,2-Tetrachloroethane	83	12.069	12.069	0.000	94	622178	50.0	51.2	
144 Bromobenzene	156	12.075	12.075	0.000	97	413075	50.0	52.0	
145 trans-1,4-Dichloro-2-butene	53	12.094	12.094	0.000	94	426455	125.0	131.2	
146 1,2,3-Trichloropropane	110	12.112	12.112	0.000	82	178139	50.0	51.6	
147 N-Propylbenzene	91	12.154	12.154	0.000	99	1998052	50.0	53.2	
148 2-Chlorotoluene	126	12.227	12.227	0.000	97	435843	50.0	53.1	
149 1,3,5-Trimethylbenzene	105	12.294	12.294	0.000	94	1550544	50.0	53.5	
150 4-Chlorotoluene	126	12.319	12.319	0.000	97	411867	50.0	51.9	
153 tert-Butylbenzene	134	12.538	12.538	0.000	92	301796	50.0	53.8	
155 1,2,4-Trimethylbenzene	105	12.580	12.580	0.000	97	1569649	50.0	53.2	
156 sec-Butylbenzene	105	12.702	12.702	0.000	94	1993222	50.0	54.3	
158 1,3-Dichlorobenzene	146	12.793	12.793	0.000	98	818862	50.0	52.4	
159 4-Isopropyltoluene	119	12.811	12.811	0.000	97	1745143	50.0	53.7	
* 160 1,4-Dichlorobenzene-d4	152	12.854	12.854	0.000	93	556513	50.0	50.0	
161 1,4-Dichlorobenzene	146	12.872	12.872	0.000	95	816119	50.0	51.8	
162 1,2,3-Trimethylbenzene	105	12.884	12.884	0.000	98	1680029	50.0	52.8	
163 Benzyl chloride	91	12.945	12.945	0.000	98	1238531	50.0	52.6	
164 1,3-Diethylbenzene	119	13.012	13.012	0.000	95	1030271	50.0	53.1	
165 p-Diethylbenzene	119	13.085	13.085	0.000	94	1058839	50.0	52.2	
166 n-Butylbenzene	92	13.103	13.103	0.000	97	860247	50.0	52.6	
167 1,2-Dichlorobenzene	146	13.128	13.128	0.000	99	864712	50.0	51.8	
168 o-diethylbenzene	119	13.158	13.158	0.000	94	865678	50.0	53.1	
170 1,2-Dibromo-3-Chloropropane	75	13.675	13.675	0.000	89	186841	50.0	51.3	
171 1,3,5-Trichlorobenzene	180	13.803	13.803	0.000	98	688170	50.0	52.5	
172 1,2,4-Trichlorobenzene	180	14.229	14.229	0.000	94	676640	50.0	51.7	
173 2-Ethylhexyl acrylate	55	14.296	14.296	0.000	80	620522	50.0	54.7	
174 Hexachlorobutadiene	225	14.314	14.314	0.000	96	271483	50.0	53.6	
175 Naphthalene	128	14.405	14.405	0.000	97	2509616	50.0	52.1	
176 1,2,3-Trichlorobenzene	180	14.551	14.551	0.000	96	672243	50.0	51.7	
177 2-Methylnaphthalene	142	15.154	15.154	0.000	92	1383257	50.0	55.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00184	Amount Added:	5.00	Units: uL	
MSV_CCV_VOC#3_00180	Amount Added:	4.00	Units: uL	
MSV_CCV_2CEVE_00176	Amount Added:	5.00	Units: uL	
MSV_CCV_ETOH_00006	Amount Added:	10.00	Units: uL	
MSV_CCV_GASES_00772	Amount Added:	2.50	Units: uL	
MSV_CCV_CYC_00008	Amount Added:	10.00	Units: uL	
MSV_CCV_OH_Sp_00007	Amount Added:	5.00	Units: uL	
MSV_HP04_ISSS_00003	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 23-May-2024 08:35:08 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X15.D

Injection Date: 21-May-2024 02:30:30 Instrument ID: 23297 Operator ID: MEC29284

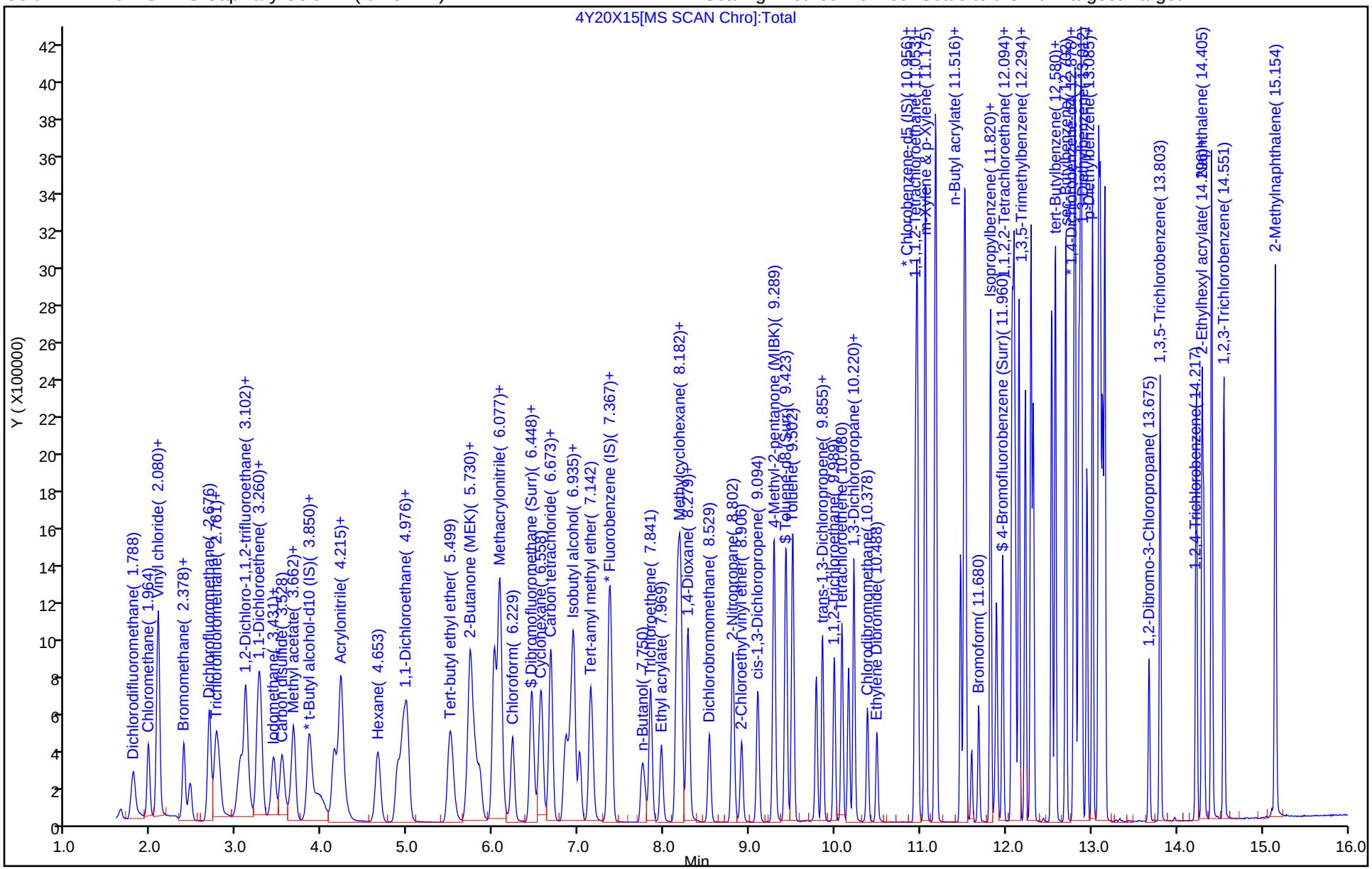
Lims ID: ICIS v50 Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 15

Method: MSVoa_23297 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

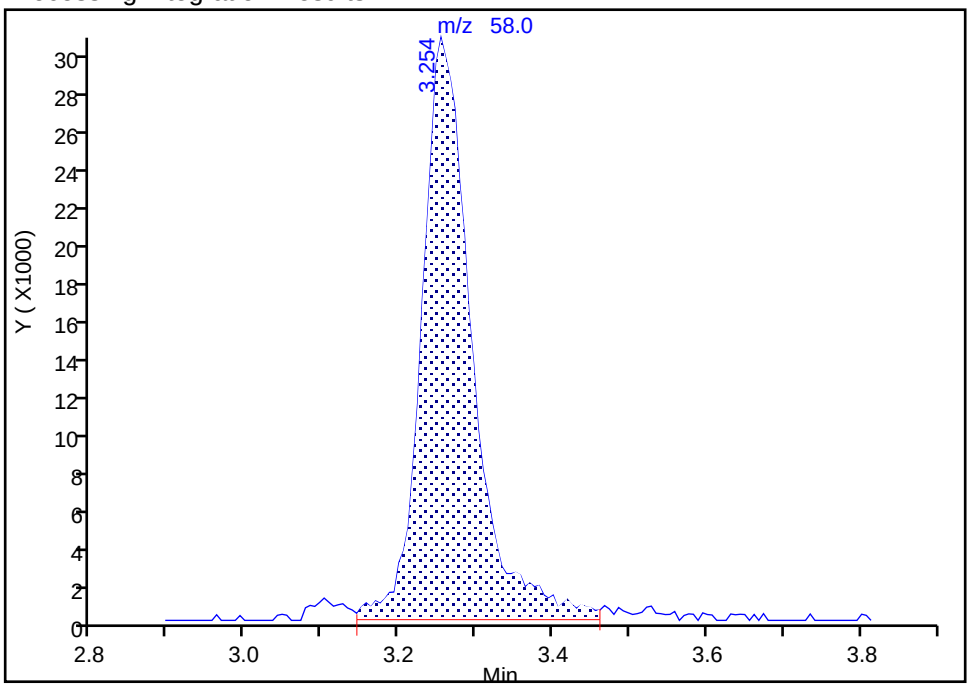
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X15.D
Injection Date: 21-May-2024 02:30:30 Instrument ID: 23297
Lims ID: ICIS v50
Client ID:
Operator ID: MEC29284 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

18 Acetone, CAS: 67-64-1

Signal: 1

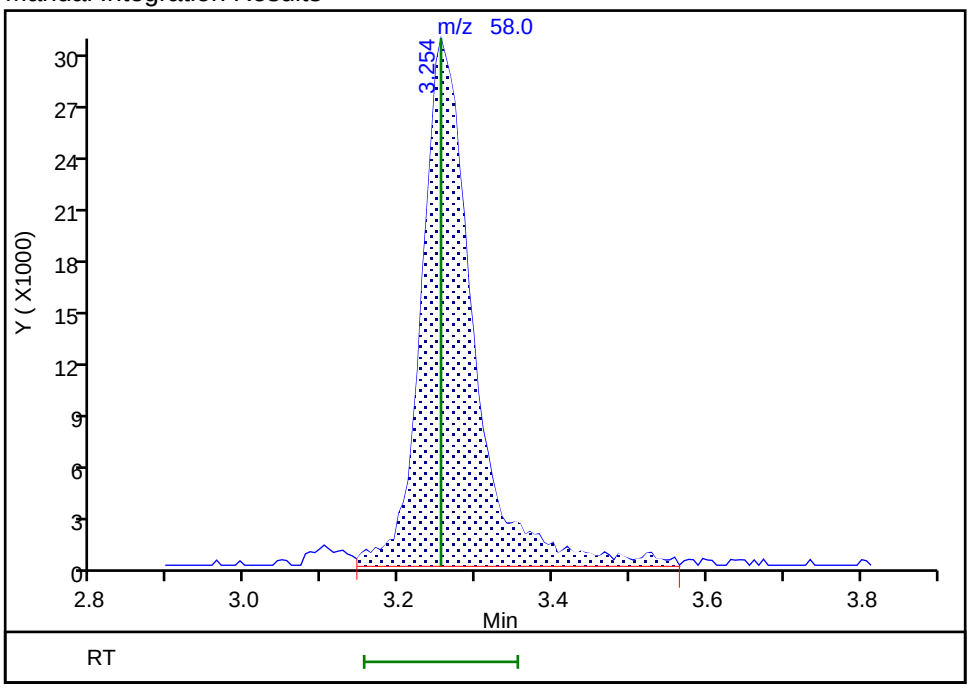
Processing Integration Results

RT: 3.25
Area: 139545
Amount: 100.2169
Amount Units: ug/l



Manual Integration Results

RT: 3.25
Area: 142310
Amount: 101.2455
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 17:14:24 -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

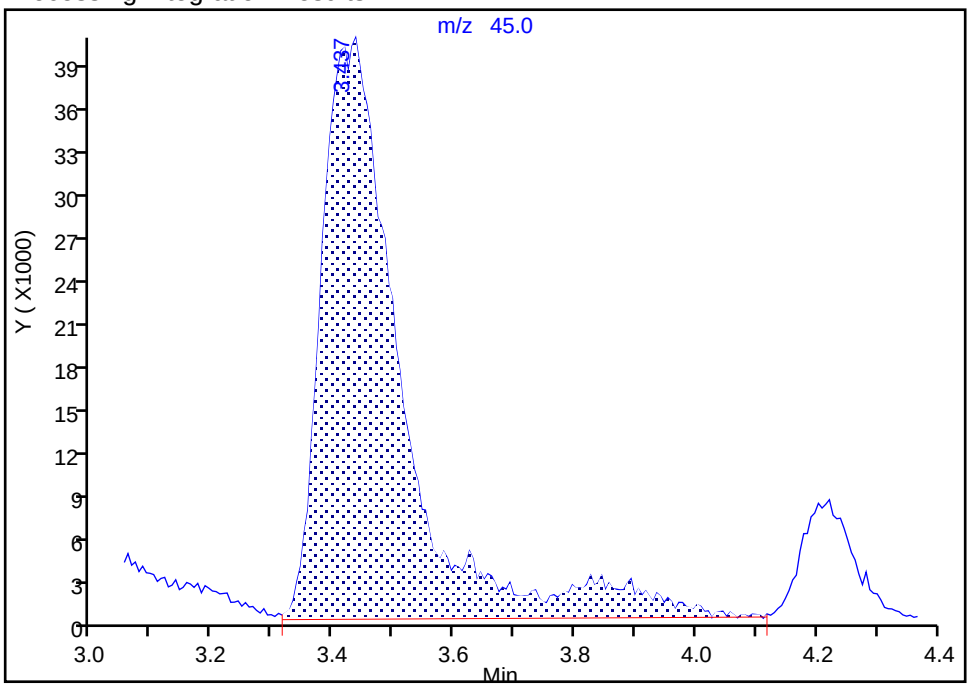
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X15.D
Injection Date: 21-May-2024 02:30:30 Instrument ID: 23297
Lims ID: ICIS v50
Client ID:
Operator ID: MEC29284 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

20 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

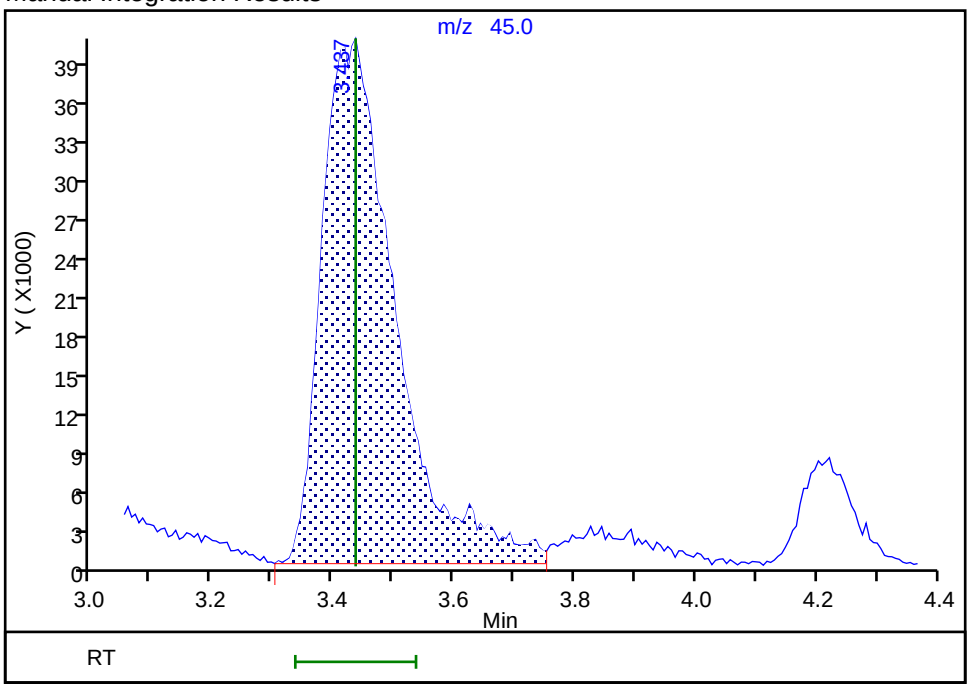
Processing Integration Results

RT: 3.44
Area: 376754
Amount: 259.7039
Amount Units: ug/l



Manual Integration Results

RT: 3.44
Area: 343735
Amount: 245.6052
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 17:06:15 -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

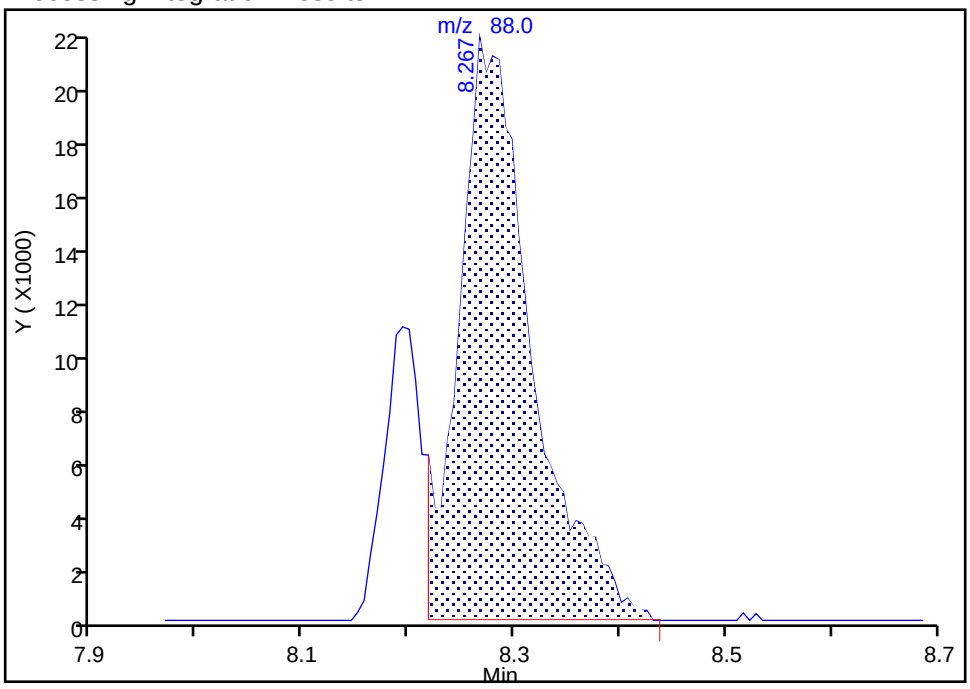
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X15.D
Injection Date: 21-May-2024 02:30:30 Instrument ID: 23297
Lims ID: ICIS v50
Client ID:
Operator ID: MEC29284 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

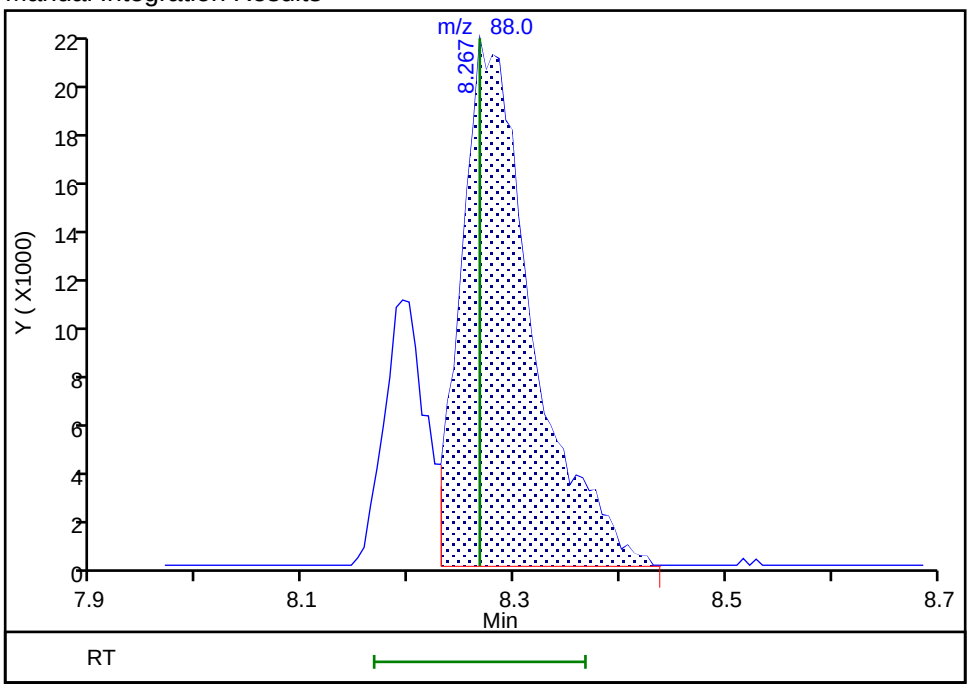
Processing Integration Results

RT: 8.27
Area: 104550
Amount: 698.0400
Amount Units: ug/l



Manual Integration Results

RT: 8.27
Area: 100772
Amount: 637.2129
Amount Units: ug/l



Reviewer: UKAD, 21-May-2024 11:25:20 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X16.D
Lims ID: IC v100
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 21-May-2024 02:52:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0114468-017
Misc. Info.: IC 100
Operator ID: MEC29284 Instrument ID: 23297
Sublist: chrom-MSVoa_23297*sub95

Method: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 23-May-2024 08:35:28 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: UKAD Date: 21-May-2024 11:22:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.794	1.788	0.006	99	1077291	100.0	97.5	
4 Chloromethane	50	1.970	1.964	0.006	99	1161030	100.0	96.8	
5 Vinyl chloride	62	2.074	2.068	0.006	98	1123203	100.0	100.6	
6 Butadiene	39	2.086	2.080	0.006	92	1056076	100.0	96.1	
8 Bromomethane	94	2.384	2.378	0.006	90	801370	100.0	97.3	
9 Chloroethane	64	2.457	2.457	0.000	100	594614	100.0	99.5	
10 Dichlorofluoromethane	67	2.682	2.676	0.006	97	1642791	100.0	100.3	
11 Trichlorofluoromethane	101	2.749	2.737	0.012	97	1174663	100.0	99.9	
12 Pentane	43	2.780	2.767	0.013	97	1002489	100.0	99.9	
13 Ethanol	45	2.901	2.877	0.024	98	451296	2500.1	2633.8	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.047	3.047	0.000	92	814453	100.0	97.2	
16 Acrolein	56	3.108	3.102	0.006	100	2588376	1002.2	1048.3	
17 1,1-Dichloroethene	96	3.254	3.248	0.006	97	570172	100.0	98.9	
18 Acetone	58	3.260	3.254	0.006	88	280635	200.0	204.5	M
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.284	3.279	0.006	92	656641	100.0	100.1	
21 Iodomethane	142	3.437	3.431	0.006	97	1242946	100.0	102.5	
20 Isopropyl alcohol	45	3.418	3.437	-0.019	99	700370	500.0	512.6	M
22 Carbon disulfide	76	3.534	3.528	0.006	99	2174801	100.0	100.9	
24 Methyl acetate	43	3.643	3.637	0.006	98	857220	100.0	98.5	
26 3-Chloro-1-propene	41	3.674	3.668	0.006	92	949120	100.0	99.5	
27 Methylene Chloride	84	3.856	3.850	0.006	92	725380	100.0	100.9	
* 28 t-Butyl alcohol-d10 (IS)	65	3.862	3.869	-0.007	90	559244	250.0	250.0	
29 2-Methyl-2-propanol	59	3.984	3.984	0.000	100	1183551	500.0	507.5	
30 Acrylonitrile	53	4.142	4.136	0.006	99	1159648	250.0	250.6	
31 Methyl tert-butyl ether	73	4.221	4.209	0.012	95	2180047	100.0	101.8	
32 trans-1,2-Dichloroethene	96	4.227	4.221	0.006	99	601750	100.0	98.2	
34 Hexane	57	4.659	4.647	0.012	93	787778	100.0	96.0	
35 1,1-Dichloroethane	63	4.884	4.878	0.006	96	1069818	100.0	100.6	
37 Isopropyl ether	45	4.951	4.951	0.000	95	2107785	100.0	102.0	
38 2-Chloro-1,3-butadiene	53	4.994	4.988	0.006	90	886732	100.0	99.6	

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	5.499	5.493	0.006	97	2080849	100.0	102.0	
40 2-Butanone (MEK)	43	5.712	5.706	0.006	100	1324867	200.0	201.5	
41 cis-1,2-Dichloroethene	96	5.736	5.730	0.006	81	700756	100.0	98.5	
42 2,2-Dichloropropane	77	5.761	5.748	0.012	87	1020919	100.0	97.3	
44 Propionitrile	54	5.797	5.791	0.006	96	1124578	500.0	530.9	
45 Methyl acrylate	55	5.846	5.840	0.006	100	1191437	100.0	99.9	
47 Methacrylonitrile	67	6.016	6.016	0.000	92	1159617	250.0	250.6	
48 Chlorobromomethane	128	6.071	6.065	0.006	79	369291	100.0	100.5	
49 Tetrahydrofuran	71	6.083	6.083	0.000	92	975103	500.0	513.3	
S 46 1,2-Dichloroethene, Total	100				0			196.7	
50 Chloroform	83	6.229	6.229	0.000	93	1101646	100.0	99.4	
$ 51 Dibromofluoromethane (Surr)	113	6.448	6.442	0.006	93	309646	50.0	49.0	
52 1,1,1-Trichloroethane	97	6.460	6.454	0.006	98	1006740	100.0	101.2	
53 Cyclohexane	56	6.557	6.558	-0.001	90	1186057	100.0	97.8	
54 Carbon tetrachloride	117	6.679	6.673	0.006	96	849946	100.0	103.7	
55 1,1-Dichloropropene	75	6.679	6.673	0.006	98	845646	100.0	100.4	
56 Isobutyl alcohol	41	6.856	6.850	0.006	95	966903	1250.0	1280.6	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	6.910	6.904	0.006	82	77043	50.0	50.1	
58 Benzene	78	6.947	6.941	0.006	96	2615988	100.0	102.0	
59 1,2-Dichloroethane	62	7.014	7.008	0.006	97	864345	100.0	103.9	
61 Tert-amyl methyl ether	73	7.148	7.142	0.006	98	2089568	100.0	103.1	
* 62 Fluorobenzene (IS)	96	7.354	7.355	0.000	99	1251670	50.0	50.0	
63 n-Heptane	43	7.385	7.379	0.006	93	911262	100.0	100.3	
64 n-Butanol	56	7.750	7.756	-0.006	88	811017	1250.0	1339.3	
66 Trichloroethene	95	7.847	7.841	0.006	98	683300	100.0	103.6	
67 Ethyl acrylate	55	7.969	7.969	0.000	99	1246164	100.0	103.2	
68 Methylcyclohexane	83	8.157	8.151	0.006	92	1221346	100.0	100.7	
69 1,2-Dichloropropane	63	8.176	8.176	0.000	97	704171	100.0	104.9	
70 2-ethoxy-2-methyl butane	87	8.200	8.194	0.006	92	1031693	100.0	104.7	
73 1,4-Dioxane	88	8.279	8.267	0.012	31	203864	1250.0	1320.5	M
72 Methyl methacrylate	69	8.279	8.273	0.006	92	687753	100.0	101.7	
74 Dibromomethane	93	8.291	8.285	0.006	97	484577	100.0	103.1	
75 Dichlorobromomethane	83	8.535	8.529	0.006	100	855156	100.0	104.4	
76 2-Nitropropane	41	8.808	8.802	0.006	97	1589998	500.0	528.9	
77 2-Chloroethyl vinyl ether	63	8.906	8.906	0.000	91	528804	100.0	108.9	
78 cis-1,3-Dichloropropene	75	9.100	9.094	0.006	97	1127430	100.0	106.8	
79 4-Methyl-2-pentanone (MIBK)	43	9.289	9.289	0.000	96	2650315	200.0	202.9	
$ 80 Toluene-d8 (Surr)	98	9.429	9.429	0.000	93	1292414	50.0	49.4	
81 Toluene	92	9.508	9.502	0.006	98	1687530	100.0	102.3	
82 trans-1,3-Dichloropropene	75	9.782	9.782	0.000	92	1021466	100.0	106.0	
100 Ethyl methacrylate	69	9.855	9.855	0.000	90	1183744	100.0	102.5	
118 1,1,2-Trichloroethane	97	9.995	9.989	0.006	90	658936	100.0	101.9	
S 114 1,3-Dichloropropene, Total	100				0			212.7	
119 Tetrachloroethene	166	10.086	10.080	0.006	97	698972	100.0	101.8	
120 1,3-Dichloropropane	76	10.159	10.159	0.000	91	1062267	100.0	104.3	
123 2-Hexanone	43	10.220	10.220	0.000	96	1888980	200.0	204.0	
125 Chlorodibromomethane	129	10.378	10.378	0.000	90	745116	100.0	107.4	
127 Ethylene Dibromide	107	10.494	10.488	0.006	99	703109	100.0	103.8	
* 128 Chlorobenzene-d5 (IS)	117	10.938	10.938	0.000	85	972378	50.0	50.0	
129 1-Chlorohexane	91	10.956	10.956	0.000	98	867762	100.0	95.8	
130 Chlorobenzene	112	10.968	10.968	0.000	97	1906637	100.0	103.6	
131 1,1,1,2-Tetrachloroethane	131	11.053	11.053	0.000	97	759534	100.0	106.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
132 Ethylbenzene	91	11.059	11.059	0.000	98	3274962	100.0	103.3	
134 m-Xylene & p-Xylene	106	11.181	11.175	0.006	99	2604504	200.0	206.0	
S 133 Xylenes, Total	106				0			309.0	
135 n-Butyl acrylate	55	11.467	11.467	0.000	97	1626932	100.0	100.3	
136 o-Xylene	106	11.516	11.510	0.006	95	1414664	100.0	102.9	
137 Styrene	104	11.528	11.528	0.000	95	2131862	100.0	103.1	
138 Bromoform	173	11.680	11.680	0.000	97	575000	100.0	106.0	
139 Isopropylbenzene	105	11.820	11.820	0.000	95	3354460	100.0	103.0	
141 Cyclohexanone	55	11.887	11.887	0.000	92	938204	1250.0	1336.8	
$ 142 4-Bromofluorobenzene (Surr)	95	11.960	11.960	0.000	91	463254	50.0	48.4	
143 1,1,2,2-Tetrachloroethane	83	12.069	12.069	0.000	94	1252300	100.0	105.2	
144 Bromobenzene	156	12.075	12.075	0.000	96	836151	100.0	107.5	
145 trans-1,4-Dichloro-2-butene	53	12.093	12.094	-0.001	90	837673	250.0	263.0	
146 1,2,3-Trichloropropane	110	12.112	12.112	0.000	83	362342	100.0	107.0	
147 N-Propylbenzene	91	12.154	12.154	0.000	98	3925477	100.0	106.6	
148 2-Chlorotoluene	126	12.227	12.227	0.000	97	862910	100.0	107.3	
149 1,3,5-Trimethylbenzene	105	12.294	12.294	0.000	94	3101342	100.0	109.2	
150 4-Chlorotoluene	126	12.319	12.319	0.000	97	822014	100.0	105.8	
153 tert-Butylbenzene	134	12.538	12.538	0.000	93	617358	100.0	112.2	
155 1,2,4-Trimethylbenzene	105	12.580	12.580	0.000	97	3134122	100.0	108.4	
156 sec-Butylbenzene	105	12.702	12.702	0.000	94	3940097	100.0	109.5	
158 1,3-Dichlorobenzene	146	12.799	12.793	0.006	98	1611013	100.0	105.1	
159 4-Isopropyltoluene	119	12.811	12.811	0.000	97	3481636	100.0	109.3	
* 160 1,4-Dichlorobenzene-d4	152	12.854	12.854	0.000	92	545530	50.0	50.0	
161 1,4-Dichlorobenzene	146	12.872	12.872	0.000	94	1609568	100.0	104.1	
162 1,2,3-Trimethylbenzene	105	12.884	12.884	0.000	98	3367175	100.0	108.0	
163 Benzyl chloride	91	12.945	12.945	0.000	98	2435776	100.0	105.6	
164 1,3-Diethylbenzene	119	13.012	13.012	0.000	95	2052402	100.0	108.0	
165 p-Diethylbenzene	119	13.085	13.085	0.000	94	2114708	100.0	106.4	
166 n-Butylbenzene	92	13.103	13.103	0.000	97	1697004	100.0	105.9	
167 1,2-Dichlorobenzene	146	13.128	13.128	0.000	99	1718906	100.0	105.1	
168 o-diethylbenzene	119	13.158	13.158	0.000	94	1785717	100.0	111.7	
170 1,2-Dibromo-3-Chloropropane	75	13.675	13.675	0.000	89	377092	100.0	105.6	
171 1,3,5-Trichlorobenzene	180	13.803	13.803	0.000	98	1374412	100.0	106.9	
172 1,2,4-Trichlorobenzene	180	14.229	14.229	0.000	95	1381186	100.0	107.7	
173 2-Ethylhexyl acrylate	55	14.296	14.296	0.000	79	1323604	100.0	119.0	
174 Hexachlorobutadiene	225	14.314	14.314	0.000	97	554066	100.0	111.6	
175 Naphthalene	128	14.405	14.405	0.000	97	5048011	100.0	106.8	
176 1,2,3-Trichlorobenzene	180	14.551	14.551	0.000	96	1372061	100.0	107.7	
177 2-Methylnaphthalene	142	15.154	15.154	0.000	92	2897563	100.0	118.5	
S 186 Total Diethylbenzene	1				0			326.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00184	Amount Added:	5.00	Units: uL	
MSV_CCV_VOC#3_00180	Amount Added:	4.00	Units: uL	
MSV_CCV_2CEVE_00176	Amount Added:	5.00	Units: uL	
MSV_CCV_ETOH_00006	Amount Added:	10.00	Units: uL	
MSV_CCV_GASES_00772	Amount Added:	2.50	Units: uL	
MSV_CCV_CYC_00008	Amount Added:	10.00	Units: uL	
MSV_CCV_OH_Sp_00007	Amount Added:	5.00	Units: uL	
MSV_HP04_ISSS_00003	Amount Added:	1.00	Units: uL	Run Reagent

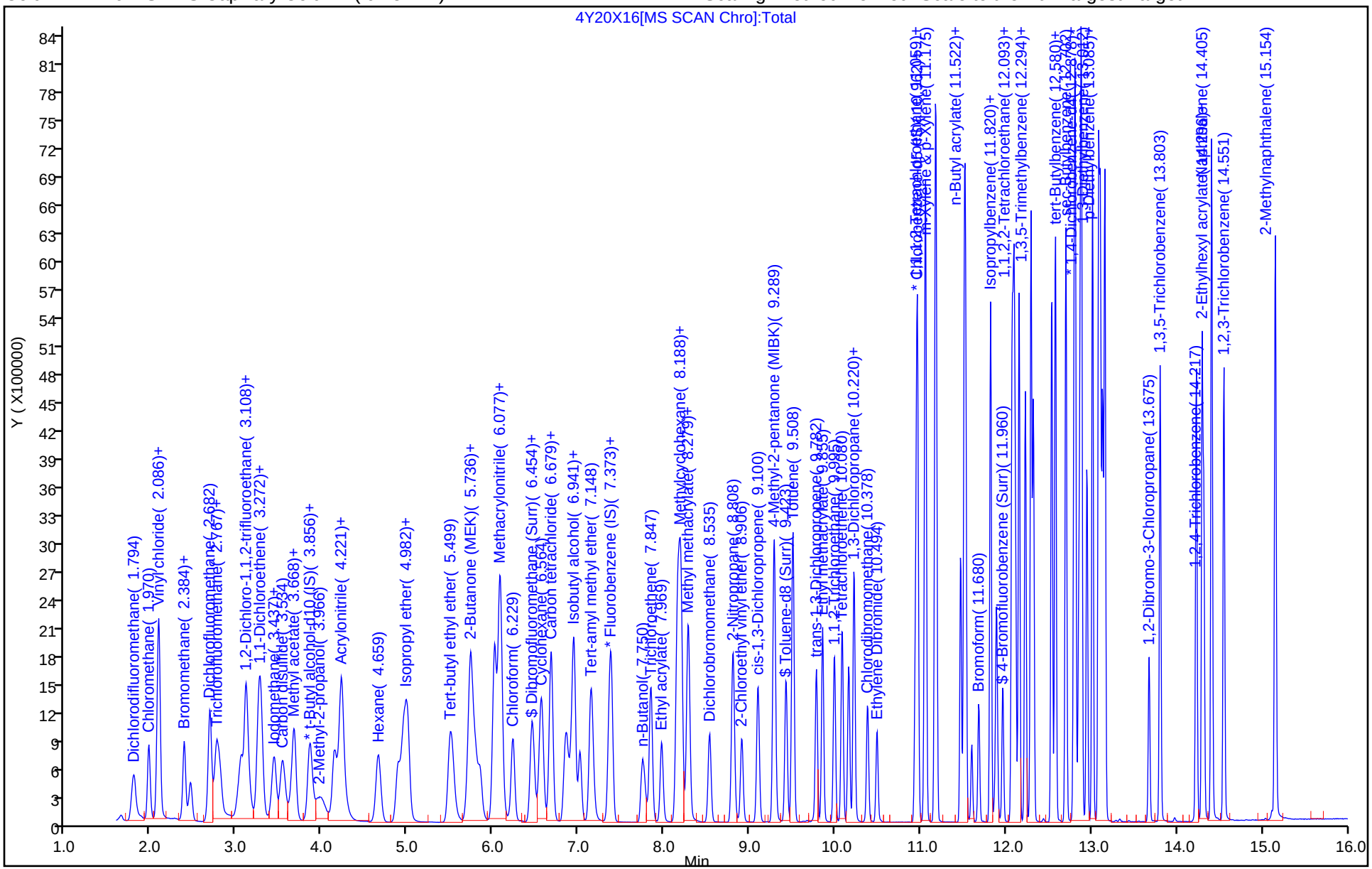
Report Date: 23-May-2024 08:35:29 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X16.D

Injection Date:	21-May-2024 02:52:30	Instrument ID:	23297	Operator ID:	MEC29284
Lims ID:	IC v100			Worklist Smp#:	17
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

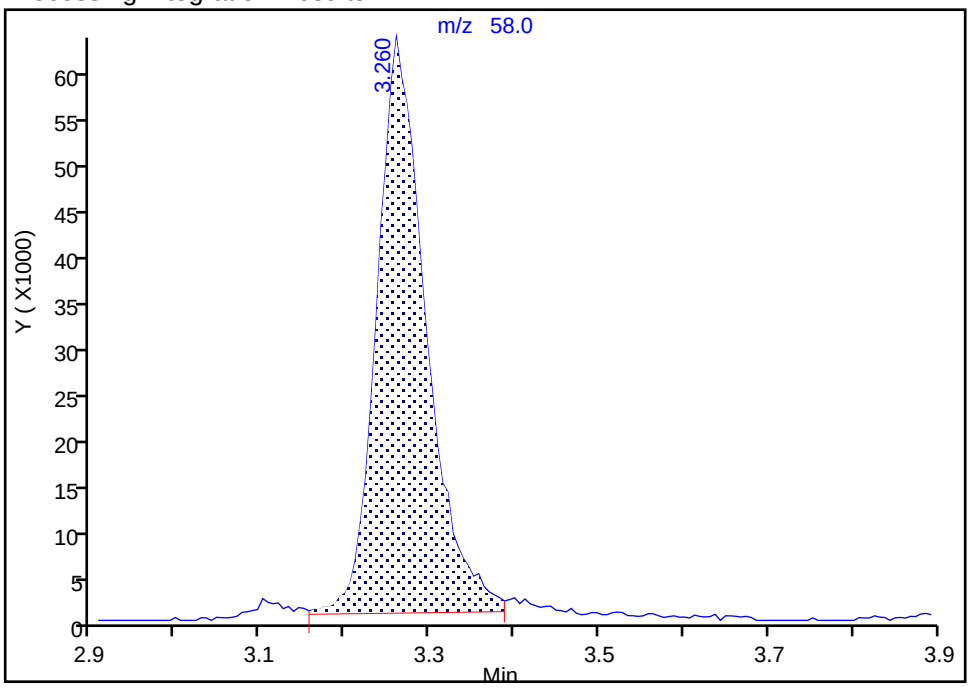
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X16.D
Injection Date: 21-May-2024 02:52:30 Instrument ID: 23297
Lims ID: IC v100
Client ID:
Operator ID: MEC29284 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

18 Acetone, CAS: 67-64-1

Signal: 1

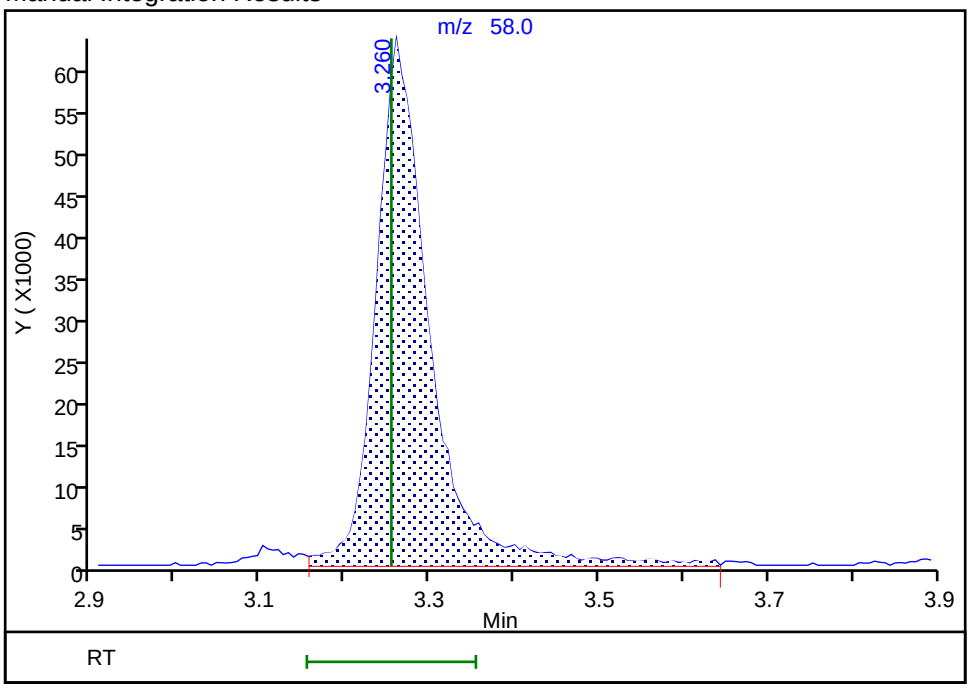
Processing Integration Results

RT: 3.26
Area: 254008
Amount: 189.5148
Amount Units: ug/l



Manual Integration Results

RT: 3.26
Area: 280635
Amount: 204.5179
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 17:14:06 -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

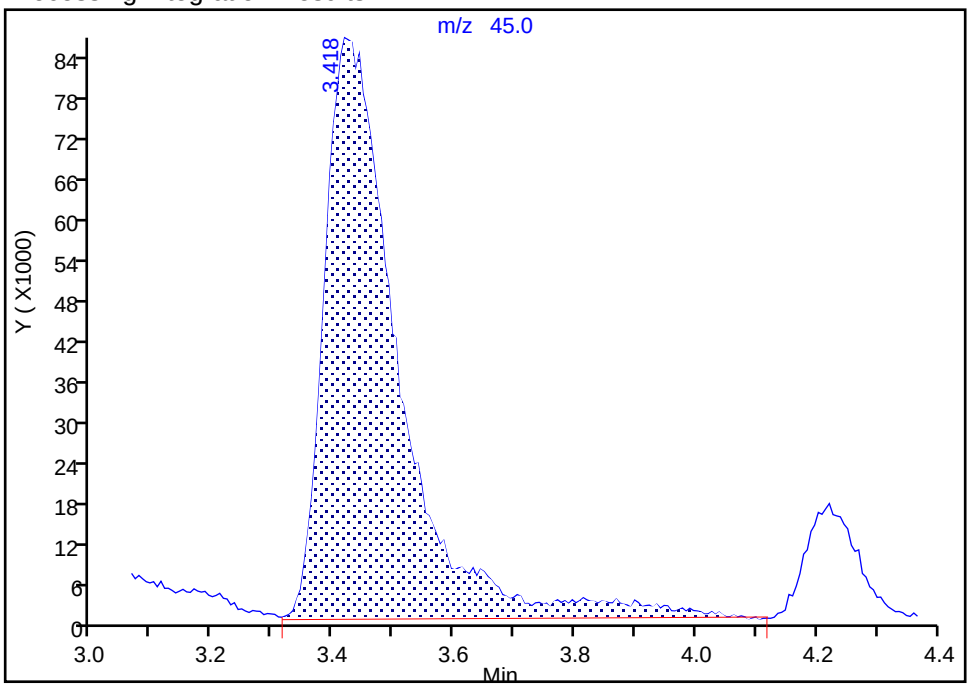
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X16.D
Injection Date: 21-May-2024 02:52:30 Instrument ID: 23297
Lims ID: IC v100
Client ID:
Operator ID: MEC29284 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

20 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

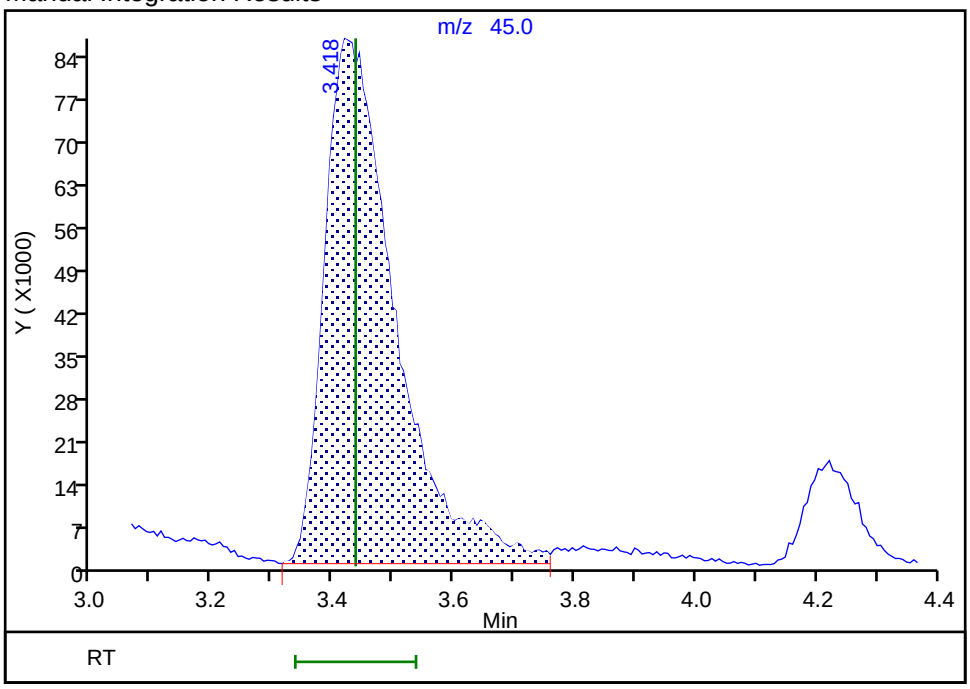
Processing Integration Results

RT: 3.42
Area: 740499
Amount: 529.7610
Amount Units: ug/l



Manual Integration Results

RT: 3.42
Area: 700370
Amount: 512.6143
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 17:07:34 -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

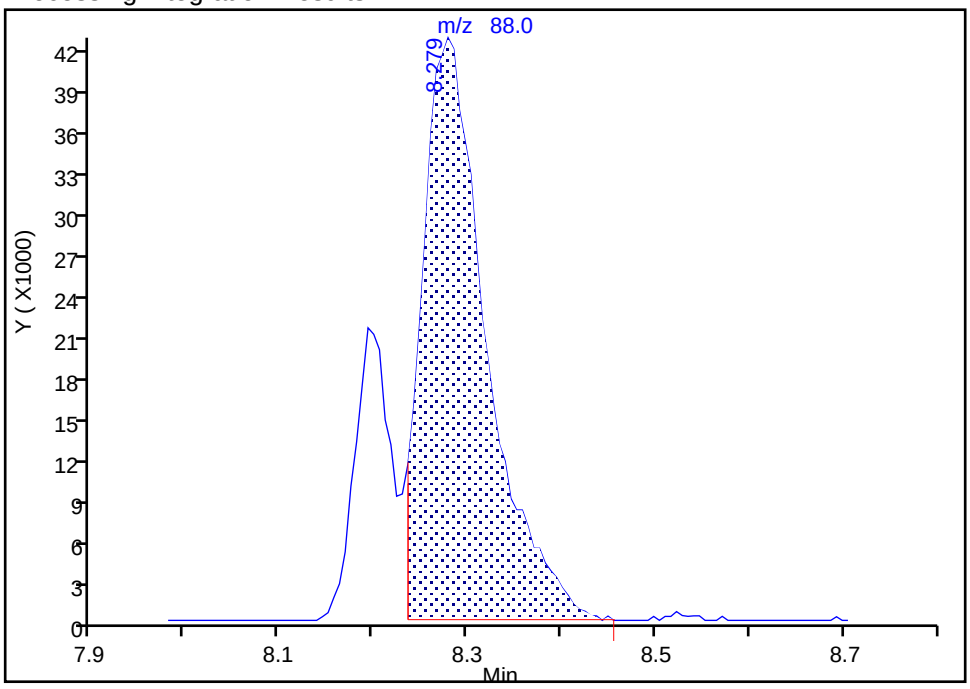
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X16.D
Injection Date: 21-May-2024 02:52:30 Instrument ID: 23297
Lims ID: IC v100
Client ID:
Operator ID: MEC29284 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

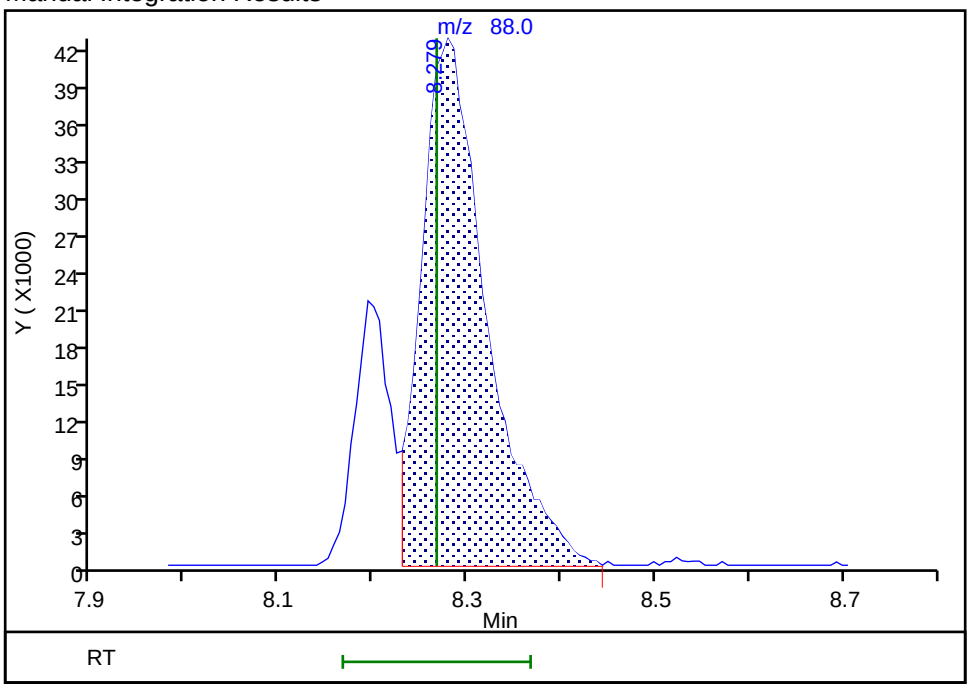
Processing Integration Results

RT: 8.28
Area: 200623
Amount: 1397.9522
Amount Units: ug/l



Manual Integration Results

RT: 8.28
Area: 203864
Amount: 1320.4887
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 17:07:57 -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\23297\20240520-114468.b\4Y20X17.D
Lims ID: IC v300
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 21-May-2024 03:15:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0114468-018
Misc. Info.: IC 300
Operator ID: MEC29284 Instrument ID: 23297
Sublist: chrom-MSVoa_23297*sub95

Method: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 23-May-2024 08:35:33 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: K4WN Date: 21-May-2024 17:13:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.794	1.788	0.006	99	3421496	300.0	297.8	
4 Chloromethane	50	1.971	1.964	0.007	99	3458593	300.0	277.5	
5 Vinyl chloride	62	2.074	2.068	0.006	98	3387587	300.0	291.8	
6 Butadiene	39	2.092	2.080	0.012	93	3241671	300.0	283.8	
8 Bromomethane	94	2.384	2.378	0.006	90	2367110	300.0	276.4	
9 Chloroethane	64	2.457	2.457	0.000	100	1777842	300.0	286.1	
10 Dichlorofluoromethane	67	2.682	2.676	0.006	97	4866301	300.0	285.9	
11 Trichlorofluoromethane	101	2.743	2.737	0.006	98	3724884	300.0	304.8	
12 Pentane	43	2.792	2.767	0.025	97	3330065	300.0	319.2	
13 Ethanol	45	2.895	2.877	0.018	96	1298890	7500.3	7191.4	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.054	3.047	0.007	92	2520894	300.0	289.4	
16 Acrolein	56	3.108	3.102	0.006	99	8044139	3006.6	3090.6	
17 1,1-Dichloroethene	96	3.260	3.248	0.012	98	1864217	300.0	311.1	
18 Acetone	58	3.254	3.254	0.000	78	839357	600.0	580.3	M
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.285	3.279	0.007	92	2161383	300.0	317.1	
21 Iodomethane	142	3.437	3.431	0.006	97	3845970	300.0	305.3	
20 Isopropyl alcohol	45	3.419	3.437	-0.018	98	1823584	1500.0	1266.2	M
22 Carbon disulfide	76	3.540	3.528	0.012	99	6943086	300.0	310.0	
24 Methyl acetate	43	3.644	3.637	0.007	98	2525058	300.0	279.1	M
26 3-Chloro-1-propene	41	3.674	3.668	0.006	92	2902532	300.0	292.8	
27 Methylene Chloride	84	3.857	3.850	0.007	91	2282317	300.0	305.5	
* 28 t-Butyl alcohol-d10 (IS)	65	3.869	3.869	0.000	86	589501	250.0	250.0	
29 2-Methyl-2-propanol	59	3.978	3.984	-0.006	100	3230361	1500.0	1314.1	
30 Acrylonitrile	53	4.142	4.136	0.006	99	3473452	750.0	722.2	
31 Methyl tert-butyl ether	73	4.222	4.209	0.013	95	6506364	300.0	292.2	
32 trans-1,2-Dichloroethene	96	4.228	4.221	0.007	99	1838583	300.0	288.6	
34 Hexane	57	4.653	4.647	0.006	92	2453310	300.0	287.8	
35 1,1-Dichloroethane	63	4.885	4.878	0.007	96	3239282	300.0	293.1	
37 Isopropyl ether	45	4.958	4.951	0.007	94	6366499	300.0	296.5	
38 2-Chloro-1,3-butadiene	53	4.994	4.988	0.006	90	2675524	300.0	289.1	

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	5.505	5.493	0.012	97	6276000	300.0	295.9	
40 2-Butanone (MEK)	43	5.712	5.706	0.006	99	4021107	600.0	588.4	
41 cis-1,2-Dichloroethene	96	5.736	5.730	0.006	81	2122120	300.0	287.1	
42 2,2-Dichloropropane	77	5.761	5.748	0.013	87	3162044	300.0	290.0	
44 Propionitrile	54	5.797	5.791	0.006	97	3380474	1500.0	1514.0	
45 Methyl acrylate	55	5.846	5.840	0.006	100	3581759	300.0	289.0	
47 Methacrylonitrile	67	6.016	6.016	0.000	92	3491756	750.0	725.9	
48 Chlorobromomethane	128	6.071	6.065	0.006	63	1125849	300.0	294.8	
49 Tetrahydrofuran	71	6.083	6.083	0.000	91	2916793	1500.0	1456.7	
S 46 1,2-Dichloroethene, Total	100				0			575.7	
50 Chloroform	83	6.229	6.229	0.000	93	3242334	300.0	285.3	
$ 51 Dibromofluoromethane (Surr)	113	6.448	6.442	0.006	93	319619	50.0	48.7	
52 1,1,1-Trichloroethane	97	6.466	6.454	0.012	98	3144885	300.0	304.3	
53 Cyclohexane	56	6.564	6.558	0.006	90	3872253	300.0	307.3	
54 Carbon tetrachloride	117	6.673	6.673	0.000	82	2718274	300.0	318.9	
55 1,1-Dichloropropene	75	6.679	6.673	0.006	95	2572884	300.0	293.8	
56 Isobutyl alcohol	41	6.856	6.850	0.006	95	2745145	3750.0	3449.2	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	6.910	6.904	0.006	84	80301	50.0	50.2	
58 Benzene	78	6.941	6.941	0.000	96	7757751	300.0	290.9	
59 1,2-Dichloroethane	62	7.014	7.008	0.006	97	2526600	300.0	292.1	
61 Tert-amyl methyl ether	73	7.148	7.142	0.006	98	6296084	300.0	298.8	
* 62 Fluorobenzene (IS)	96	7.355	7.355	0.001	99	1300987	50.0	50.0	
63 n-Heptane	43	7.379	7.379	0.000	93	2727406	300.0	288.8	
64 n-Butanol	56	7.750	7.756	-0.006	89	2319144	3750.0	3633.1	
66 Trichloroethene	95	7.841	7.841	0.000	98	2084897	300.0	304.1	
67 Ethyl acrylate	55	7.969	7.969	0.000	99	3864674	300.0	308.0	
68 Methylcyclohexane	83	8.158	8.151	0.007	93	3990866	300.0	316.4	
69 1,2-Dichloropropane	63	8.176	8.176	0.000	98	2171790	300.0	311.1	
70 2-ethoxy-2-methyl butane	87	8.200	8.194	0.006	93	3231932	300.0	315.7	
73 1,4-Dioxane	88	8.279	8.267	0.012	85	582296	3750.0	3578.1	
72 Methyl methacrylate	69	8.279	8.273	0.006	93	2151580	300.0	306.2	
74 Dibromomethane	93	8.291	8.285	0.006	96	1478837	300.0	302.6	
75 Dichlorobromomethane	83	8.535	8.529	0.006	100	2654395	300.0	311.6	
76 2-Nitropropane	41	8.809	8.802	0.007	98	4837283	1500.0	1526.5	
77 2-Chloroethyl vinyl ether	63	8.912	8.906	0.006	91	1682992	300.0	333.3	
78 cis-1,3-Dichloropropene	75	9.101	9.094	0.007	99	3571756	300.0	325.5	
79 4-Methyl-2-pentanone (MIBK)	43	9.289	9.289	0.000	96	7788902	600.0	573.6	
$ 80 Toluene-d8 (Surr)	98	9.429	9.429	0.000	93	1402727	50.0	47.4	
81 Toluene	92	9.508	9.502	0.006	99	5237069	300.0	280.9	
82 trans-1,3-Dichloropropene	75	9.782	9.782	0.000	92	3277754	300.0	300.8	
100 Ethyl methacrylate	69	9.855	9.855	0.000	90	3635039	300.0	278.3	
118 1,1,2-Trichloroethane	97	9.995	9.989	0.006	90	2078020	300.0	284.1	
S 114 1,3-Dichloropropene, Total	100				0			626.2	
119 Tetrachloroethene	166	10.086	10.080	0.006	97	2233420	300.0	287.8	
120 1,3-Dichloropropane	76	10.159	10.159	0.000	91	3337821	300.0	289.9	
123 2-Hexanone	43	10.220	10.220	0.000	95	5608315	600.0	535.7	
125 Chlorodibromomethane	129	10.378	10.378	0.000	90	2388482	300.0	304.4	
127 Ethylene Dibromide	107	10.494	10.488	0.006	98	2267910	300.0	296.2	
* 128 Chlorobenzene-d5 (IS)	117	10.944	10.938	0.006	84	1099288	50.0	50.0	
129 1-Chlorohexane	91	10.956	10.956	0.000	99	2746915	300.0	268.2	
130 Chlorobenzene	112	10.968	10.968	0.000	95	5921701	300.0	284.5	
131 1,1,1,2-Tetrachloroethane	131	11.053	11.053	0.000	98	2348583	300.0	290.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
132 Ethylbenzene	91	11.059	11.059	0.000	98	9686450	300.0	270.3	
134 m-Xylene & p-Xylene	106	11.181	11.175	0.006	96	7976283	600.0	558.1	
S 133 Xylenes, Total	106				0			837.5	
135 n-Butyl acrylate	55	11.467	11.467	0.000	98	4943610	300.1	269.5	
136 o-Xylene	106	11.516	11.510	0.006	95	4341549	300.0	279.4	
137 Styrene	104	11.528	11.528	0.000	94	6611091	300.0	282.7	
138 Bromoform	173	11.680	11.680	0.000	97	1853570	300.0	302.1	
139 Isopropylbenzene	105	11.820	11.820	0.000	96	9815623	300.0	266.5	
141 Cyclohexanone	55	11.887	11.887	0.000	92	2791452	3749.9	3773.3	
$ 142 4-Bromofluorobenzene (Surr)	95	11.960	11.960	0.000	91	533272	50.0	49.3	
143 1,1,2,2-Tetrachloroethane	83	12.069	12.069	0.000	94	3841903	300.0	283.0	
144 Bromobenzene	156	12.075	12.075	0.000	97	2704838	300.0	304.9	
145 trans-1,4-Dichloro-2-butene	53	12.094	12.094	0.000	88	2578732	750.0	710.1	
146 1,2,3-Trichloropropane	110	12.112	12.112	0.000	82	1097262	300.0	284.2	
147 N-Propylbenzene	91	12.155	12.154	0.001	97	11216992	300.0	267.2	
148 2-Chlorotoluene	126	12.228	12.227	0.001	98	2721015	300.0	296.8	
149 1,3,5-Trimethylbenzene	105	12.294	12.294	0.000	95	9188107	300.0	283.7	
150 4-Chlorotoluene	126	12.319	12.319	0.000	97	2635443	300.0	297.4	
153 tert-Butylbenzene	134	12.538	12.538	0.000	93	1957882	300.0	312.2	
155 1,2,4-Trimethylbenzene	105	12.580	12.580	0.000	97	9245064	300.0	280.4	
156 sec-Butylbenzene	105	12.702	12.702	0.000	95	11319094	300.0	275.8	
158 1,3-Dichlorobenzene	146	12.799	12.793	0.006	98	5058564	300.0	289.5	
159 4-Isopropyltoluene	119	12.812	12.811	0.001	95	10070341	300.0	277.3	
* 160 1,4-Dichlorobenzene-d4	152	12.854	12.854	0.000	90	621977	50.0	50.0	
161 1,4-Dichlorobenzene	146	12.872	12.872	0.000	94	5079850	300.0	288.3	
162 1,2,3-Trimethylbenzene	105	12.885	12.884	0.001	97	9813122	300.0	276.2	
163 Benzyl chloride	91	12.945	12.945	0.000	98	7324672	300.0	278.4	
164 1,3-Diethylbenzene	119	13.012	13.012	0.000	94	6204705	300.0	286.3	
165 p-Diethylbenzene	119	13.085	13.085	0.000	95	6376581	300.0	281.3	
166 n-Butylbenzene	92	13.104	13.103	0.001	96	5208030	300.0	285.1	
167 1,2-Dichlorobenzene	146	13.134	13.128	0.006	98	5293309	300.0	284.0	
168 o-diethylbenzene	119	13.158	13.158	0.000	95	5371496	300.0	294.7	
170 1,2-Dibromo-3-Chloropropane	75	13.675	13.675	0.000	89	1159620	300.0	284.9	
171 1,3,5-Trichlorobenzene	180	13.803	13.803	0.000	98	4138949	300.0	282.4	
172 1,2,4-Trichlorobenzene	180	14.229	14.229	0.000	95	4079028	300.0	278.8	
173 2-Ethylhexyl acrylate	55	14.296	14.296	0.000	79	3990147	299.9	314.7	
174 Hexachlorobutadiene	225	14.314	14.314	0.000	97	1698877	300.0	300.3	
175 Naphthalene	128	14.405	14.405	0.000	99	13334001	300.0	247.5	e
176 1,2,3-Trichlorobenzene	180	14.551	14.551	0.000	96	3949881	300.0	271.9	
177 2-Methylnaphthalene	142	15.154	15.154	0.000	91	7689628	300.0	275.9	
S 186 Total Diethylbenzene	1				0			862.2	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

Reagents:

MSV_CCV_VOC#1_00184	Amount Added:	15.00	Units: uL	
MSV_CCV_VOC#3_00180	Amount Added:	12.00	Units: uL	
MSV_CCV_2CEVE_00176	Amount Added:	15.00	Units: uL	
MSV_CCV_ETOH_00006	Amount Added:	30.00	Units: uL	
MSV_CCV_GASES_00772	Amount Added:	7.50	Units: uL	
MSV_CCV_CYC_00008	Amount Added:	30.00	Units: uL	
MSV_CCV_OH_Sp_00007	Amount Added:	15.00	Units: uL	
MSV_HP04_ISSS_00003	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 23-May-2024 08:35:34 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

Injection Date: 21-May-2024 03:15:30 Instrument ID: 23297 Operator ID: MEC29284

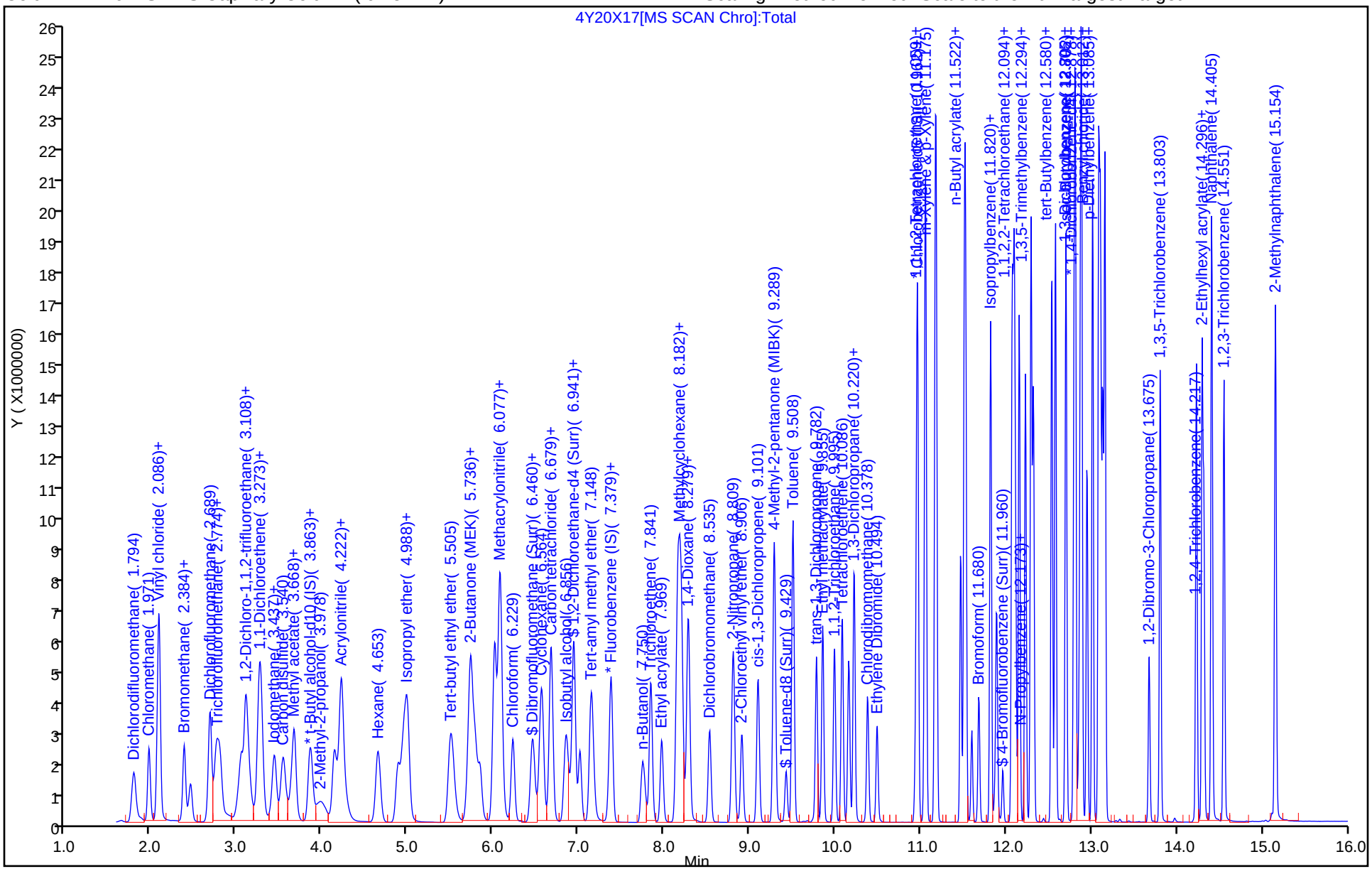
Lims ID: IC v300 Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 17

Method: MSVoa_23297 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

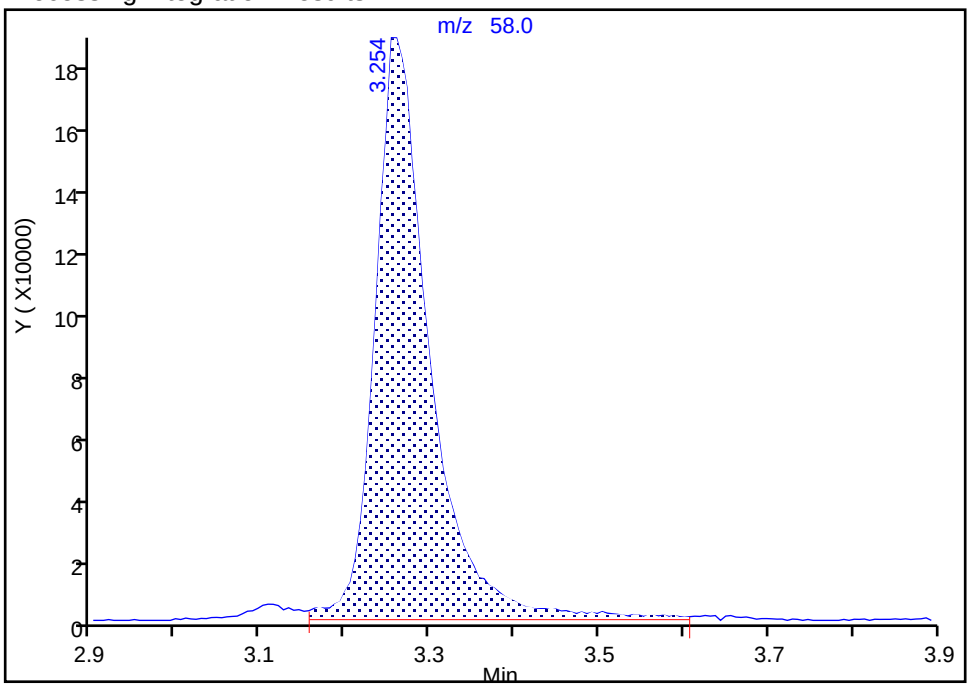
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D
Injection Date: 21-May-2024 03:15:30 Instrument ID: 23297
Lims ID: IC v300
Client ID:
Operator ID: MEC29284 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

18 Acetone, CAS: 67-64-1

Signal: 1

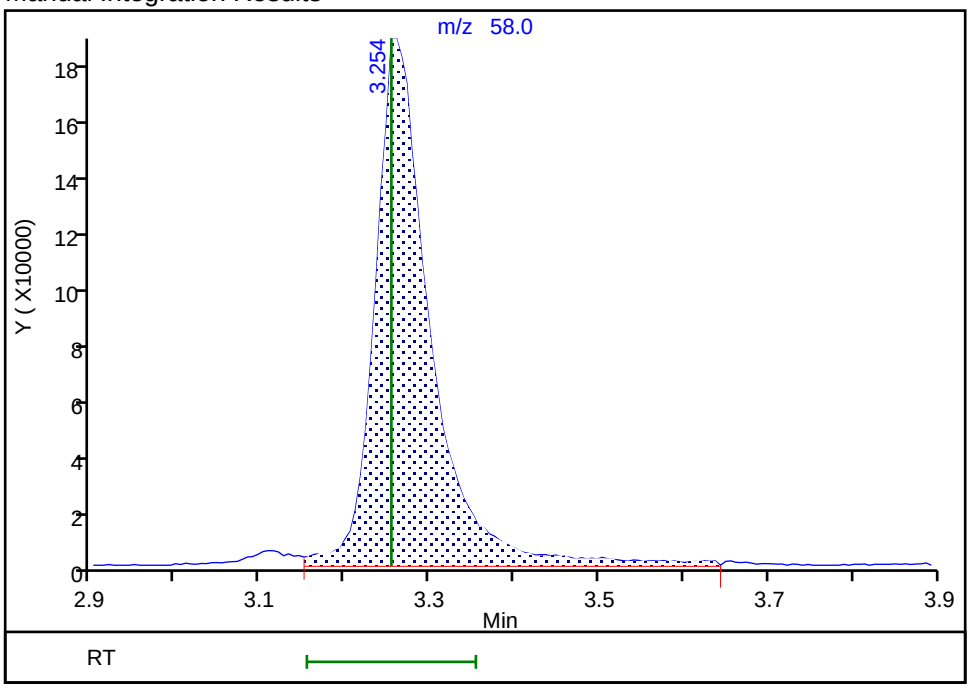
Processing Integration Results

RT: 3.25
Area: 835778
Amount: 591.9234
Amount Units: ug/l



Manual Integration Results

RT: 3.25
Area: 839357
Amount: 580.3007
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 17:13:38 -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

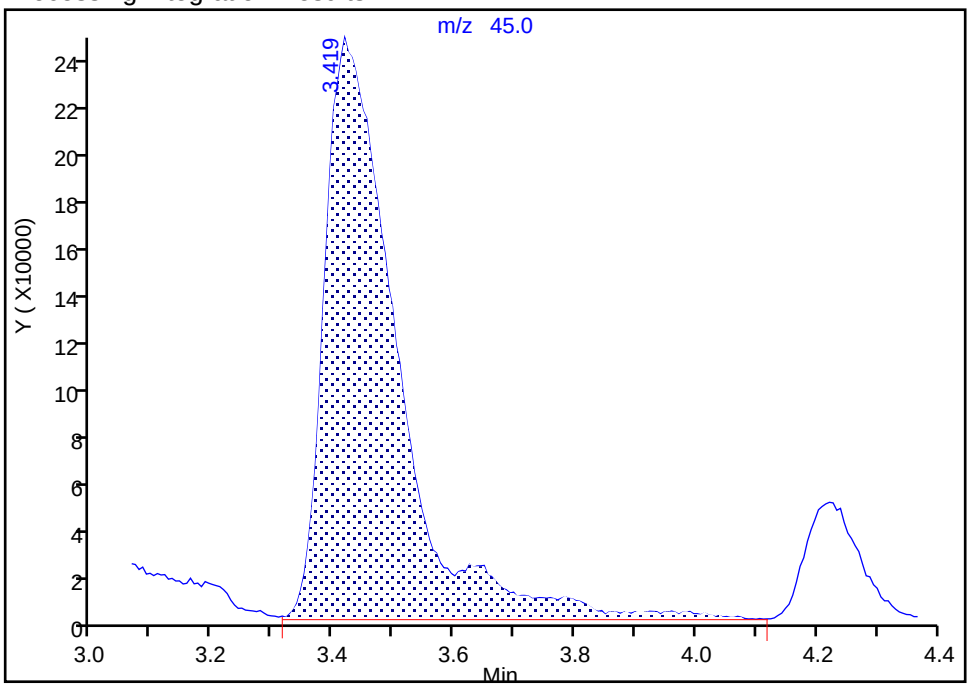
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D
Injection Date: 21-May-2024 03:15:30 Instrument ID: 23297
Lims ID: IC v300
Client ID:
Operator ID: MEC29284 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

20 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

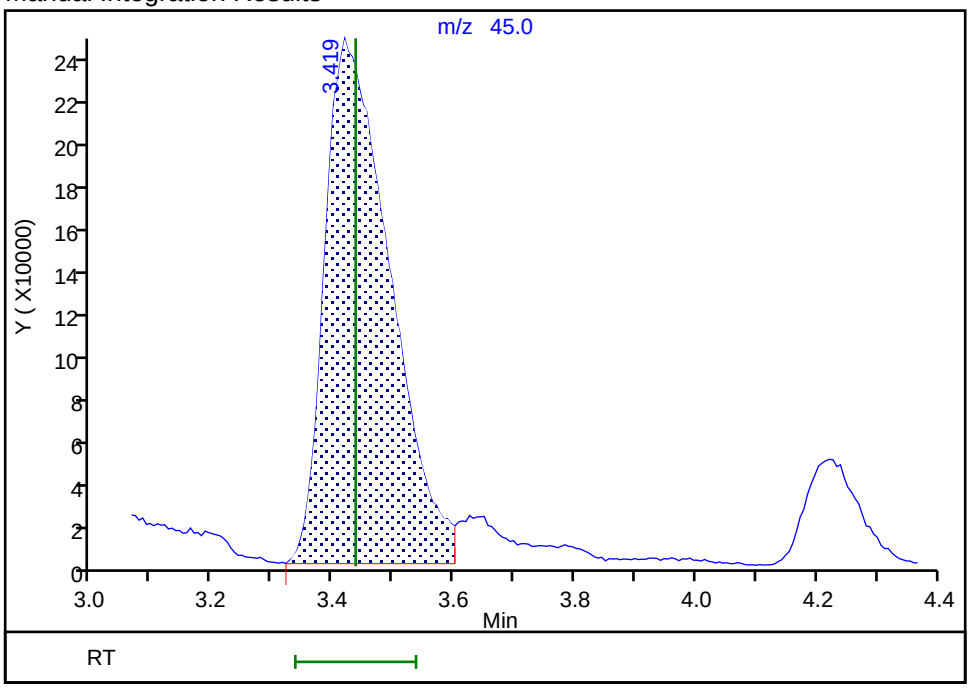
Processing Integration Results

RT: 3.42
Area: 2045631
Amount: 1399.8342
Amount Units: ug/l



Manual Integration Results

RT: 3.42
Area: 1823584
Amount: 1266.2101
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 17:09:10 -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

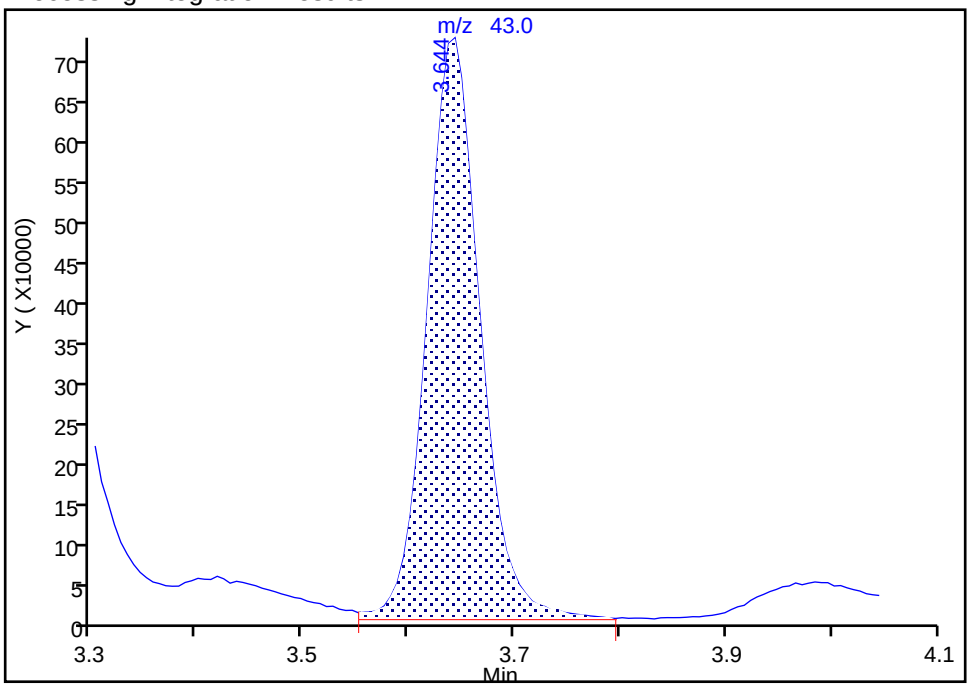
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D
Injection Date: 21-May-2024 03:15:30 Instrument ID: 23297
Lims ID: IC v300
Client ID:
Operator ID: MEC29284 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

24 Methyl acetate, CAS: 79-20-9

Signal: 1

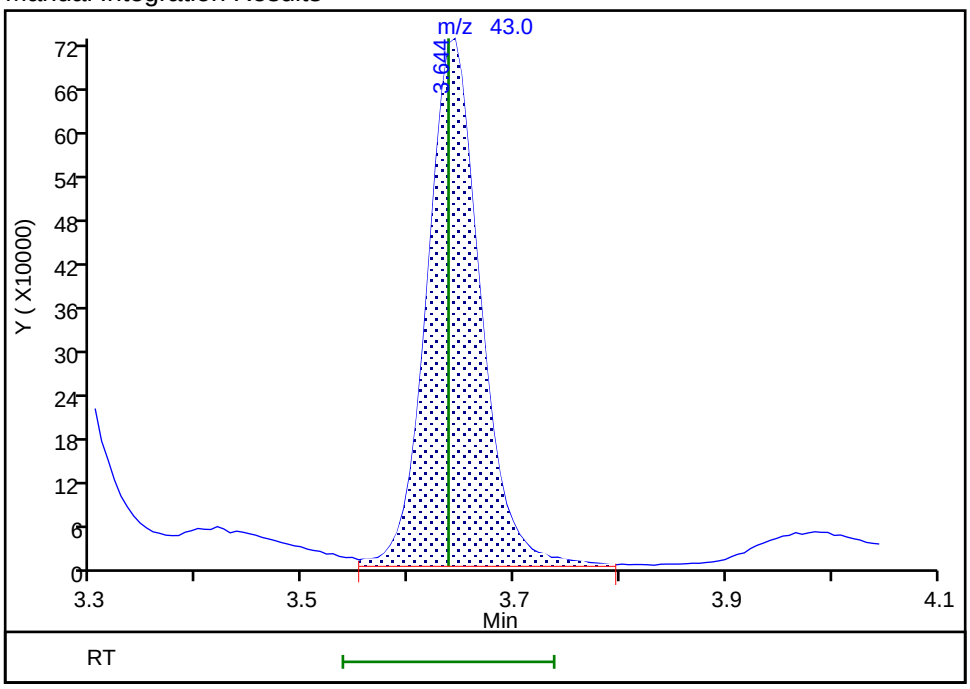
Processing Integration Results

RT: 3.64
Area: 2534486
Amount: 280.0219
Amount Units: ug/l



Manual Integration Results

RT: 3.64
Area: 2525058
Amount: 279.1187
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 17:09:30 -04:00:00 (UTC)
Audit Action: Assigned New Baseline 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

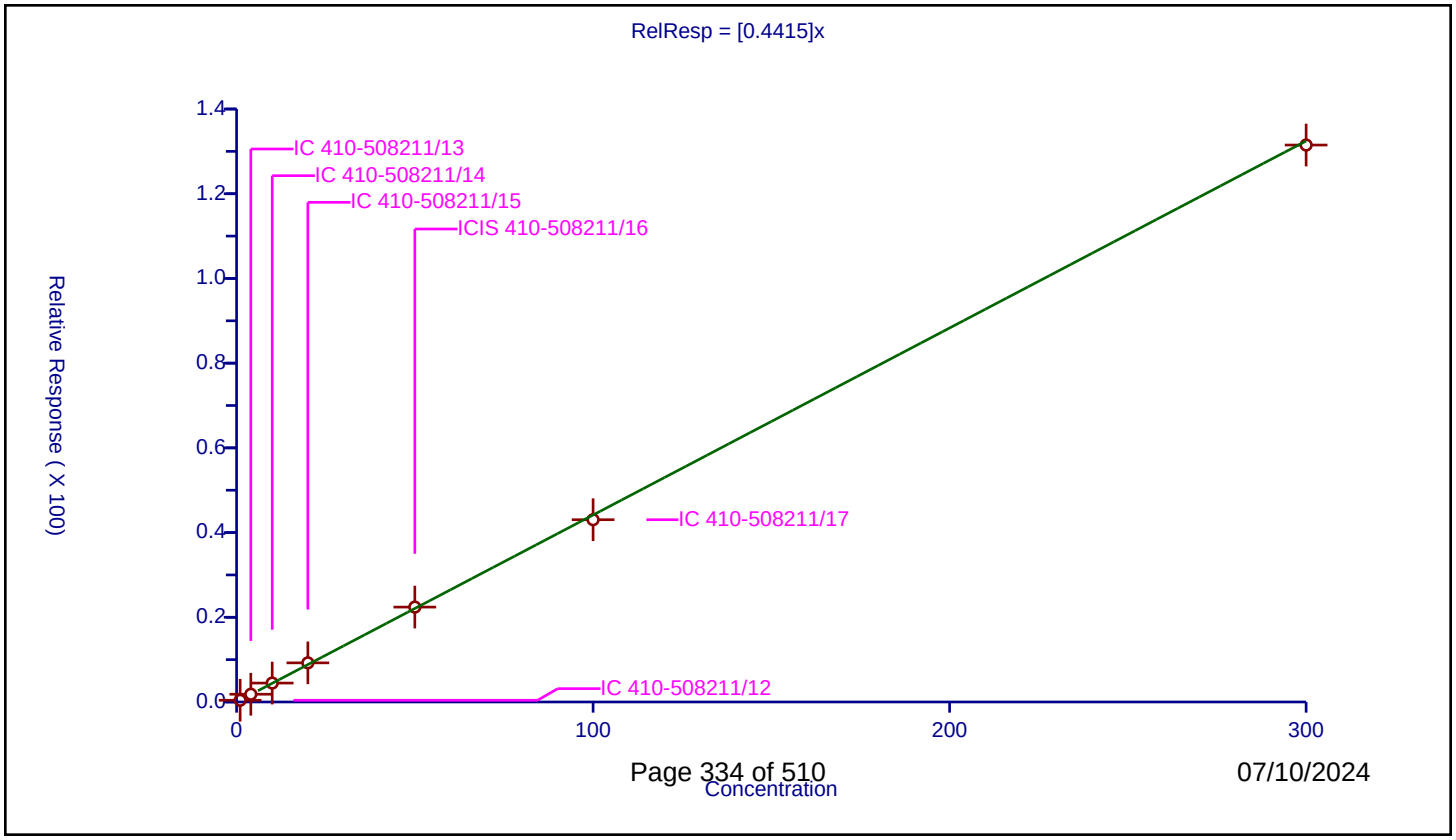
Curve Coefficients

Intercept:	0
Slope:	0.4415

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.40732	50.0	1258715.0	0.40732	Y
2	IC 410-508211/13	4.0	1.830594	50.0	1278820.0	0.457648	Y
3	IC 410-508211/14	10.0	4.469603	50.0	1290685.0	0.44696	Y
4	IC 410-508211/15	20.0	9.237723	50.0	1244219.0	0.461886	Y
5	ICIS 410-508211/16	50.0	22.402751	50.0	1258986.0	0.448055	Y
6	IC 410-508211/17	100.0	43.034146	50.0	1251670.0	0.430341	Y
7	IC 410-508211/18	300.0	131.496164	50.0	1300987.0	0.438321	Y



Calibration / Chloromethane

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

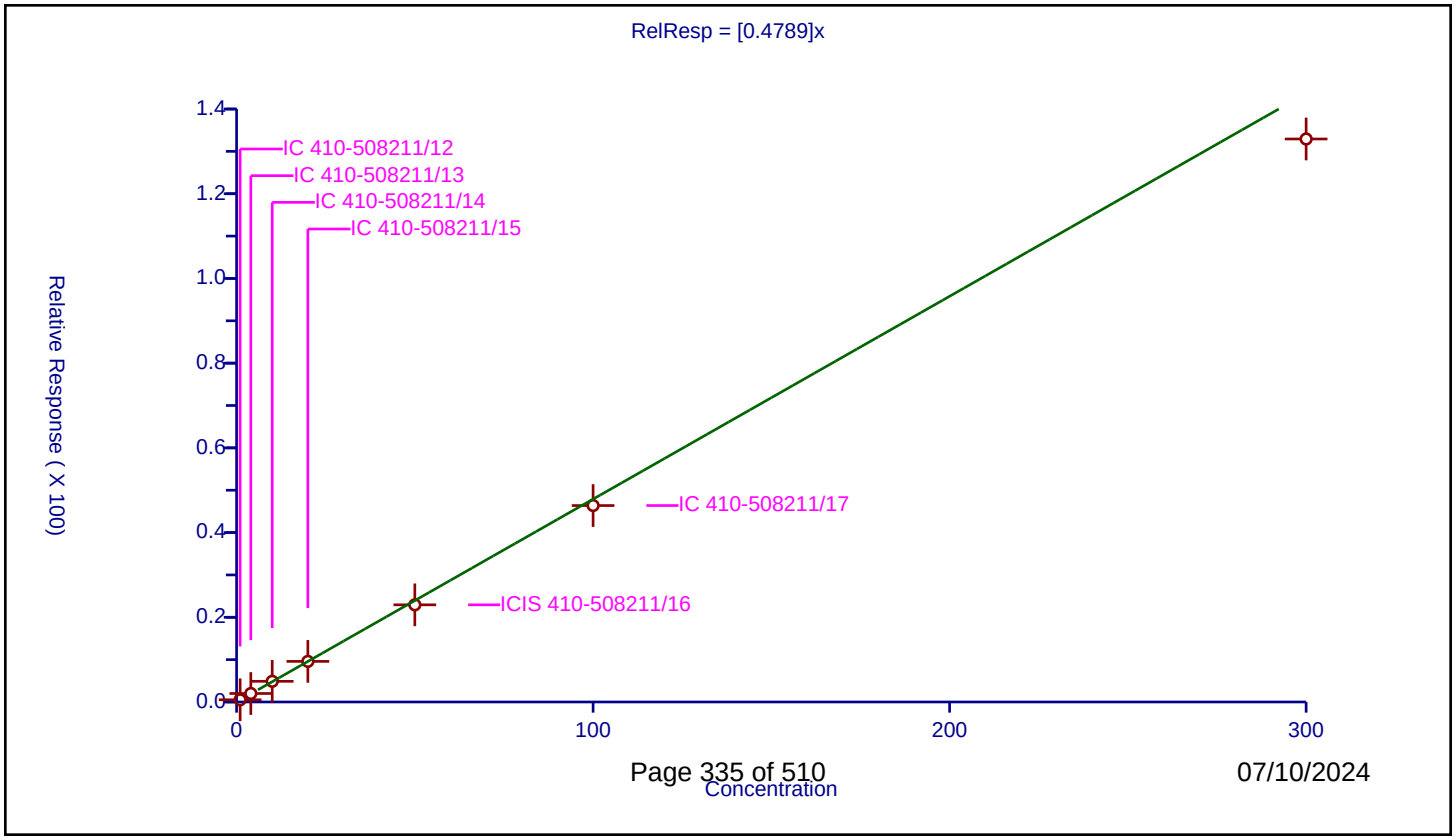
Curve Coefficients

Intercept:	0
Slope:	0.4789

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.518465	50.0	1258715.0	0.518465	Y
2	IC 410-508211/13	4.0	2.003253	50.0	1278820.0	0.500813	Y
3	IC 410-508211/14	10.0	4.881826	50.0	1290685.0	0.488183	Y
4	IC 410-508211/15	20.0	9.587862	50.0	1244219.0	0.479393	Y
5	ICIS 410-508211/16	50.0	22.939334	50.0	1258986.0	0.458787	Y
6	IC 410-508211/17	100.0	46.379237	50.0	1251670.0	0.463792	Y
7	IC 410-508211/18	300.0	132.921889	50.0	1300987.0	0.443073	Y



Calibration / Vinyl chloride

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

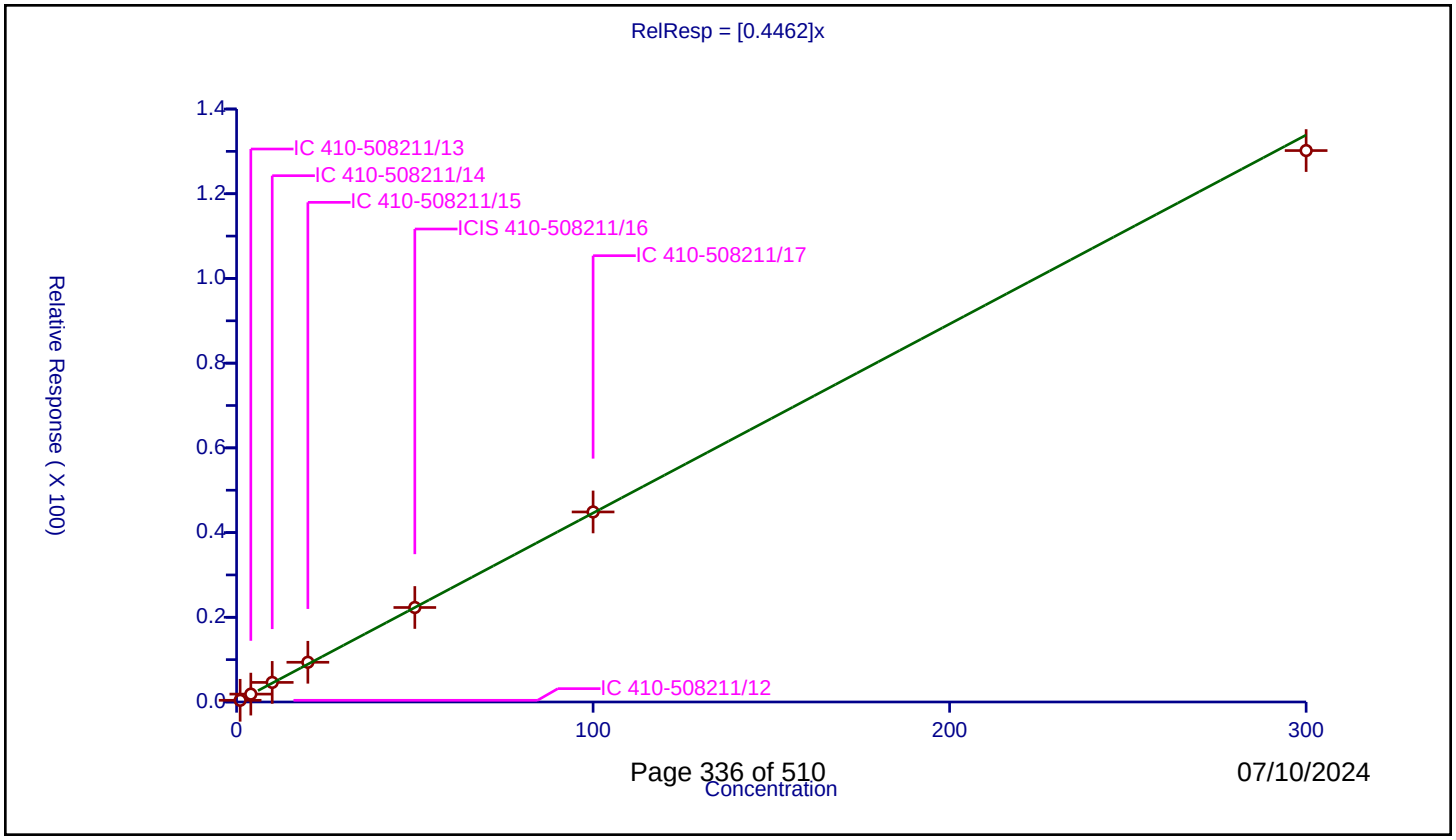
Curve Coefficients

Intercept:	0
Slope:	0.4462

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.398382	50.0	1258715.0	0.398382	Y
2	IC 410-508211/13	4.0	1.859058	50.0	1278820.0	0.464764	Y
3	IC 410-508211/14	10.0	4.624444	50.0	1290685.0	0.462444	Y
4	IC 410-508211/15	20.0	9.378976	50.0	1244219.0	0.468949	Y
5	ICIS 410-508211/16	50.0	22.310415	50.0	1258986.0	0.446208	Y
6	IC 410-508211/17	100.0	44.868176	50.0	1251670.0	0.448682	Y
7	IC 410-508211/18	300.0	130.192961	50.0	1300987.0	0.433977	Y



Calibration / Butadiene

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

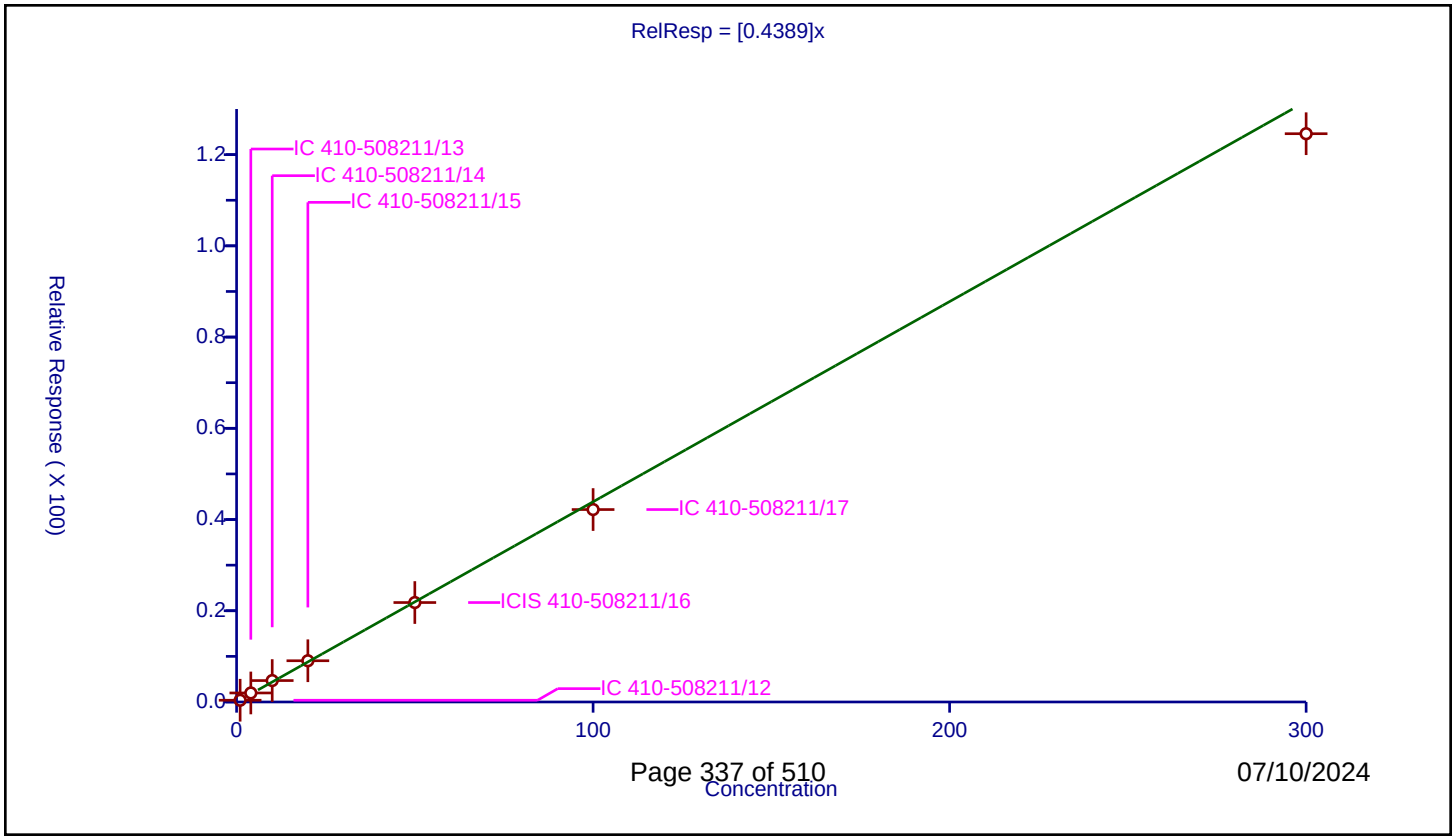
Curve Coefficients

Intercept:	0
Slope:	0.4389

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.383407	50.0	1258715.0	0.383407	Y
2	IC 410-508211/13	4.0	1.976314	50.0	1278820.0	0.494079	Y
3	IC 410-508211/14	10.0	4.697273	50.0	1290685.0	0.469727	Y
4	IC 410-508211/15	20.0	9.038883	50.0	1244219.0	0.451944	Y
5	ICIS 410-508211/16	50.0	21.805445	50.0	1258986.0	0.436109	Y
6	IC 410-508211/17	100.0	42.186679	50.0	1251670.0	0.421867	Y
7	IC 410-508211/18	300.0	124.585065	50.0	1300987.0	0.415284	Y



Calibration / Bromomethane

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

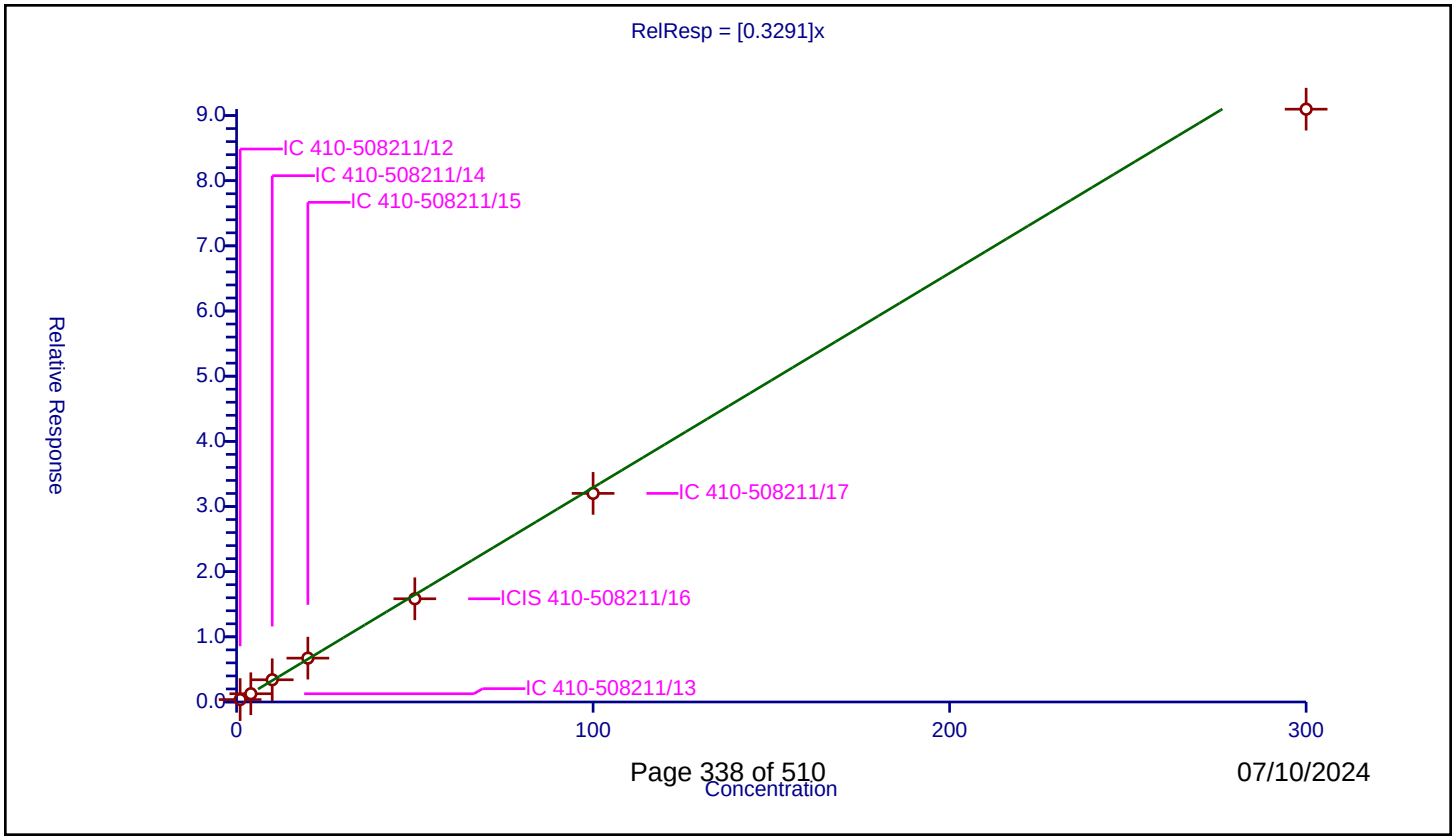
Curve Coefficients

Intercept:	0
Slope:	0.3291

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.369504	50.0	1258715.0	0.369504	Y
2	IC 410-508211/13	4.0	1.264721	50.0	1278820.0	0.31618	Y
3	IC 410-508211/14	10.0	3.412452	50.0	1290685.0	0.341245	Y
4	IC 410-508211/15	20.0	6.730407	50.0	1244219.0	0.33652	Y
5	ICIS 410-508211/16	50.0	15.837547	50.0	1258986.0	0.316751	Y
6	IC 410-508211/17	100.0	32.012032	50.0	1251670.0	0.32012	Y
7	IC 410-508211/18	300.0	90.973622	50.0	1300987.0	0.303245	Y



Calibration / Chloroethane

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

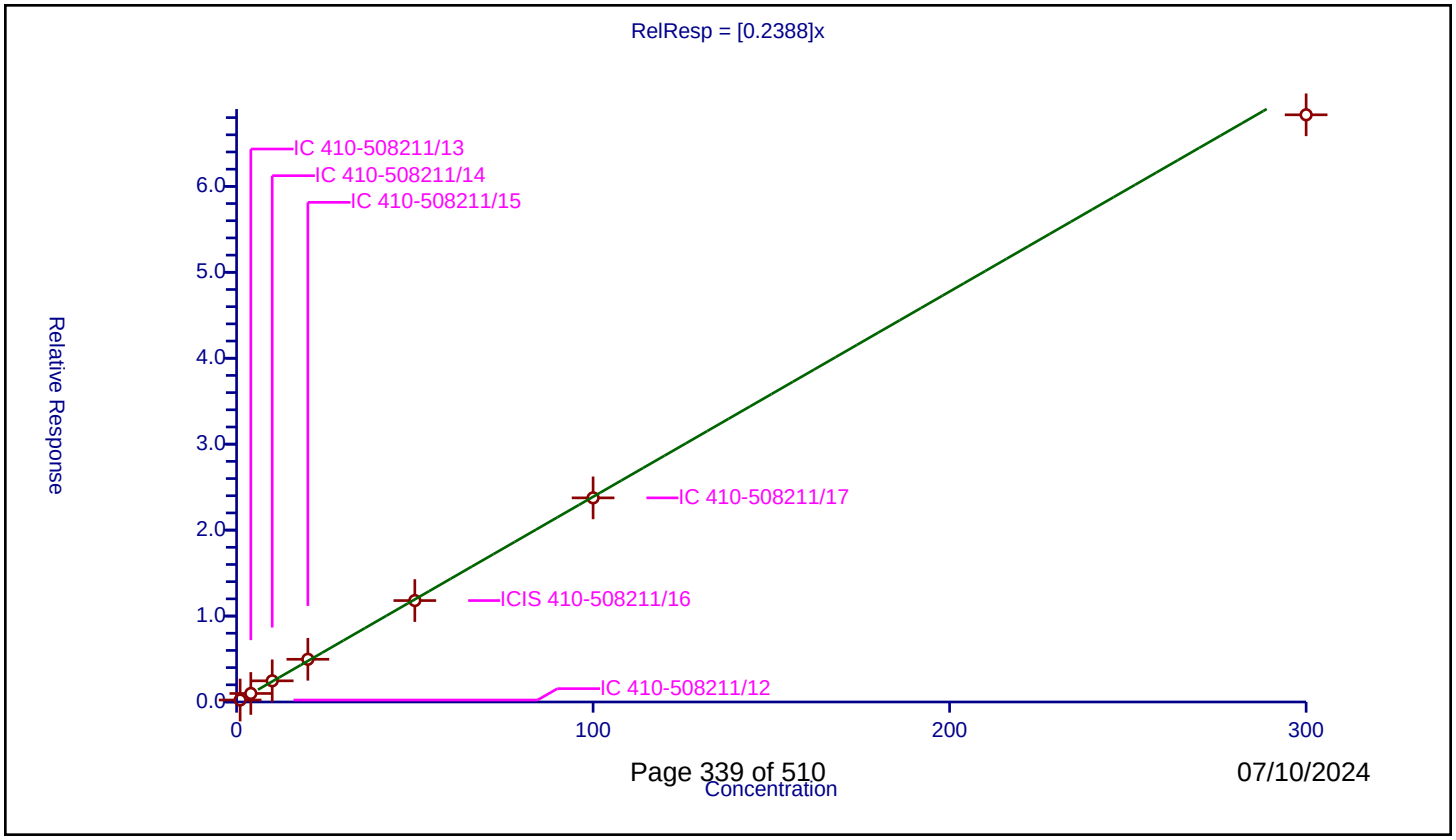
Curve Coefficients

Intercept:	0
Slope:	0.2388

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.227812	50.0	1258715.0	0.227812	Y
2	IC 410-508211/13	4.0	0.991344	50.0	1278820.0	0.247836	Y
3	IC 410-508211/14	10.0	2.461561	50.0	1290685.0	0.246156	Y
4	IC 410-508211/15	20.0	4.968137	50.0	1244219.0	0.248407	Y
5	ICIS 410-508211/16	50.0	11.803706	50.0	1258986.0	0.236074	Y
6	IC 410-508211/17	100.0	23.752826	50.0	1251670.0	0.237528	Y
7	IC 410-508211/18	300.0	68.326663	50.0	1300987.0	0.227756	Y



Calibration / Dichlorofluoromethane

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

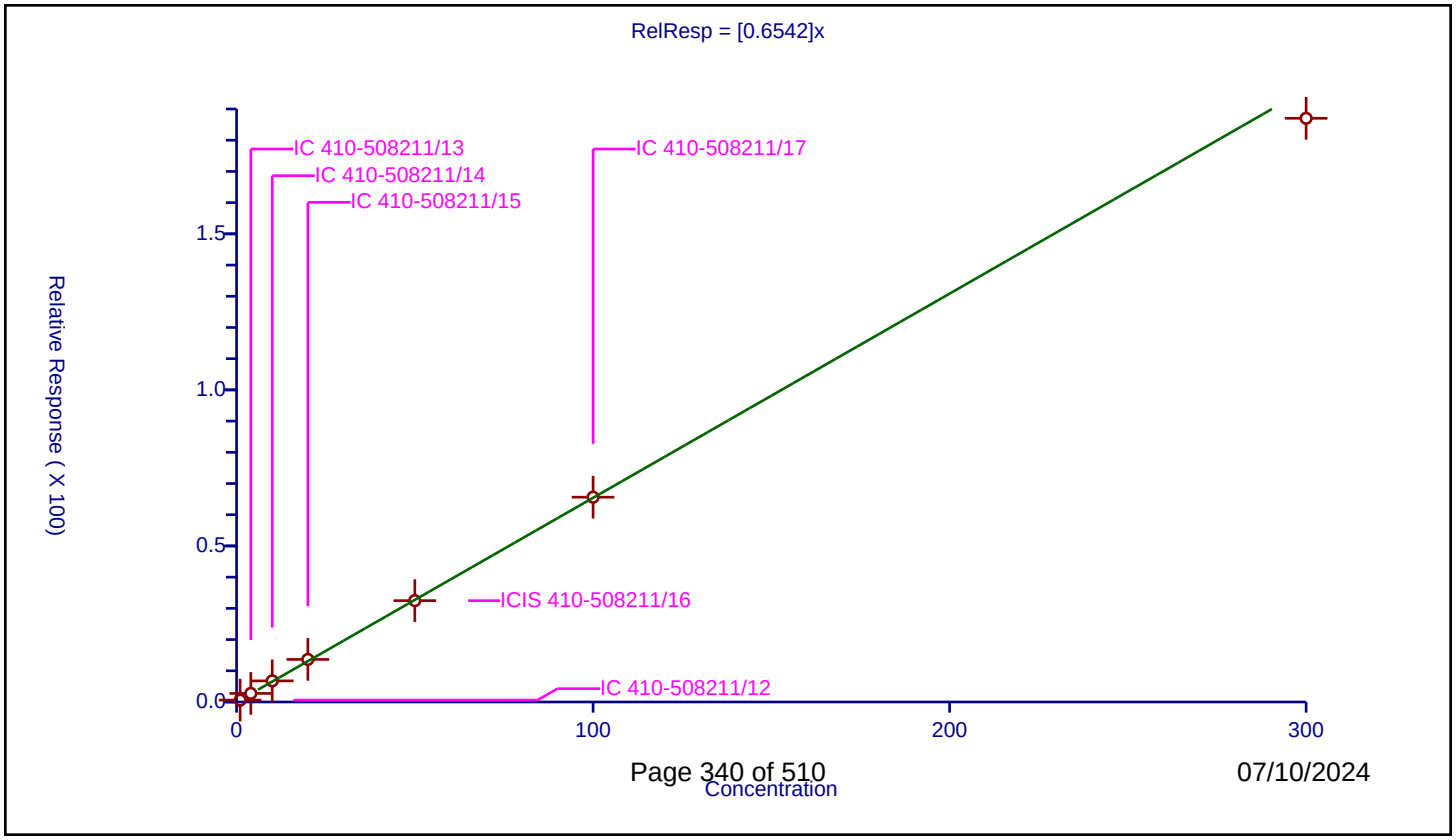
Curve Coefficients

Intercept:	0
Slope:	0.6542

Error Coefficients

Relative Standard Deviation:	4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.604863	50.0	1258715.0	0.604863	Y
2	IC 410-508211/13	4.0	2.748862	50.0	1278820.0	0.687216	Y
3	IC 410-508211/14	10.0	6.763308	50.0	1290685.0	0.676331	Y
4	IC 410-508211/15	20.0	13.641047	50.0	1244219.0	0.682052	Y
5	ICIS 410-508211/16	50.0	32.471807	50.0	1258986.0	0.649436	Y
6	IC 410-508211/17	100.0	65.623966	50.0	1251670.0	0.65624	Y
7	IC 410-508211/18	300.0	187.023429	50.0	1300987.0	0.623411	Y



Calibration / Trichlorofluoromethane

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

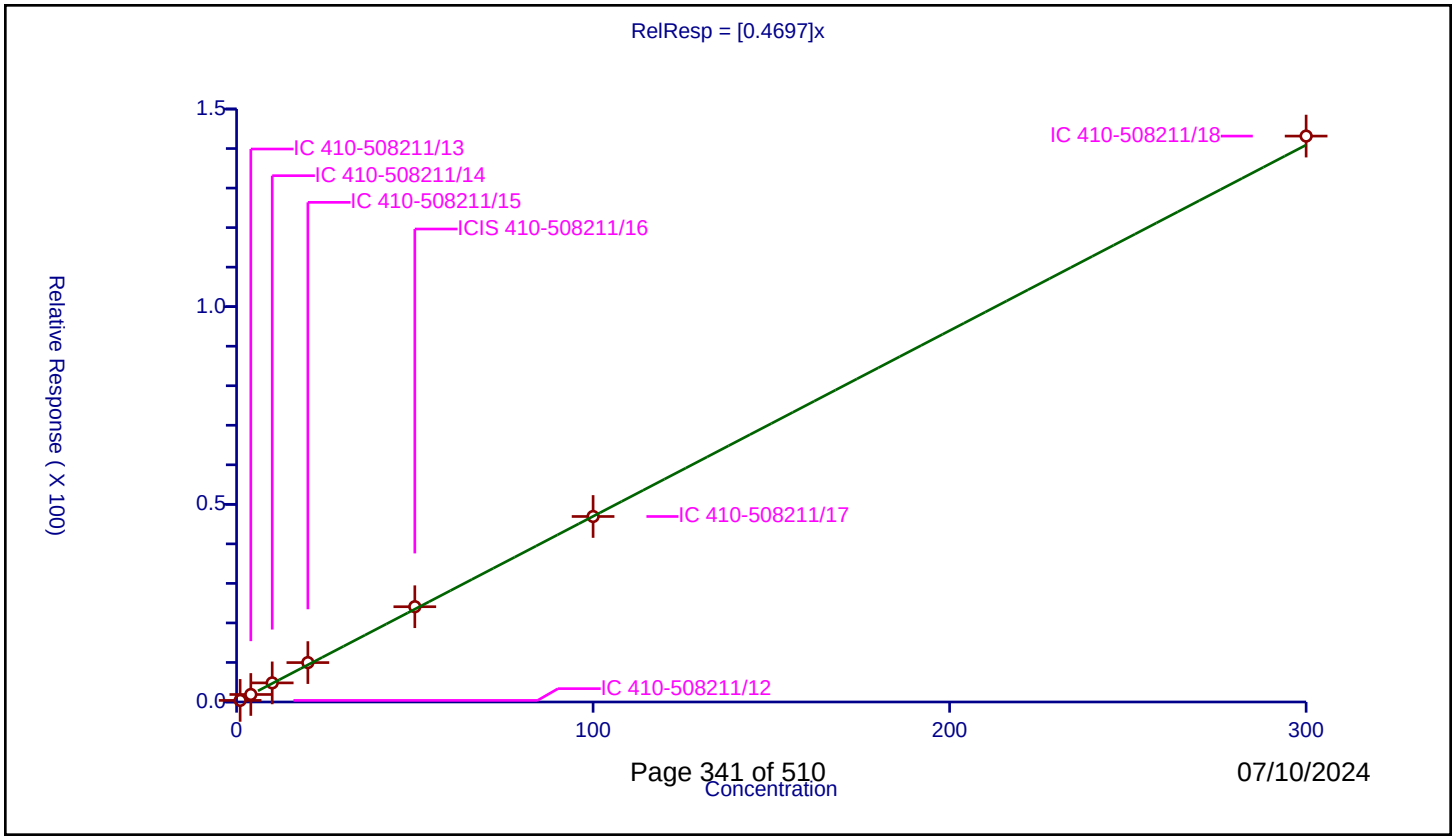
Curve Coefficients

Intercept:	0
Slope:	0.4697

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.402355	50.0	1258715.0	0.402355	Y
2	IC 410-508211/13	4.0	1.901519	50.0	1278820.0	0.47538	Y
3	IC 410-508211/14	10.0	4.831543	50.0	1290685.0	0.483154	Y
4	IC 410-508211/15	20.0	9.968904	50.0	1244219.0	0.498445	Y
5	ICIS 410-508211/16	50.0	24.099275	50.0	1258986.0	0.481986	Y
6	IC 410-508211/17	100.0	46.92383	50.0	1251670.0	0.469238	Y
7	IC 410-508211/18	300.0	143.156081	50.0	1300987.0	0.477187	Y



Calibration / Pentane

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

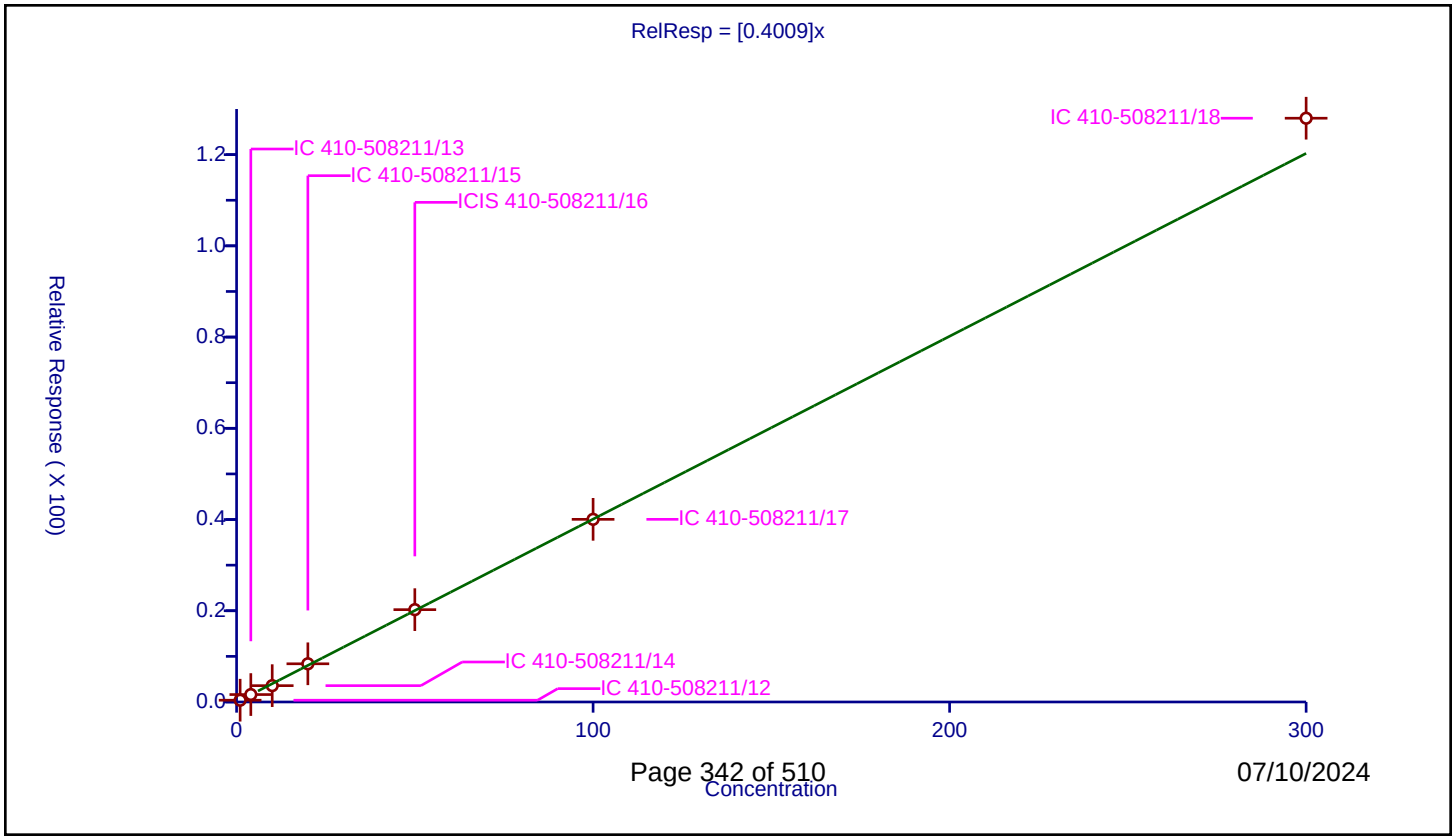
Curve Coefficients

Intercept:	0
Slope:	0.4009

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.39008	50.0	1258715.0	0.39008	Y
2	IC 410-508211/13	4.0	1.629393	50.0	1278820.0	0.407348	Y
3	IC 410-508211/14	10.0	3.581044	50.0	1290685.0	0.358104	Y
4	IC 410-508211/15	20.0	8.376982	50.0	1244219.0	0.418849	Y
5	ICIS 410-508211/16	50.0	20.242004	50.0	1258986.0	0.40484	Y
6	IC 410-508211/17	100.0	40.046058	50.0	1251670.0	0.400461	Y
7	IC 410-508211/18	300.0	127.982255	50.0	1300987.0	0.426608	Y



Calibration / Ethanol

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

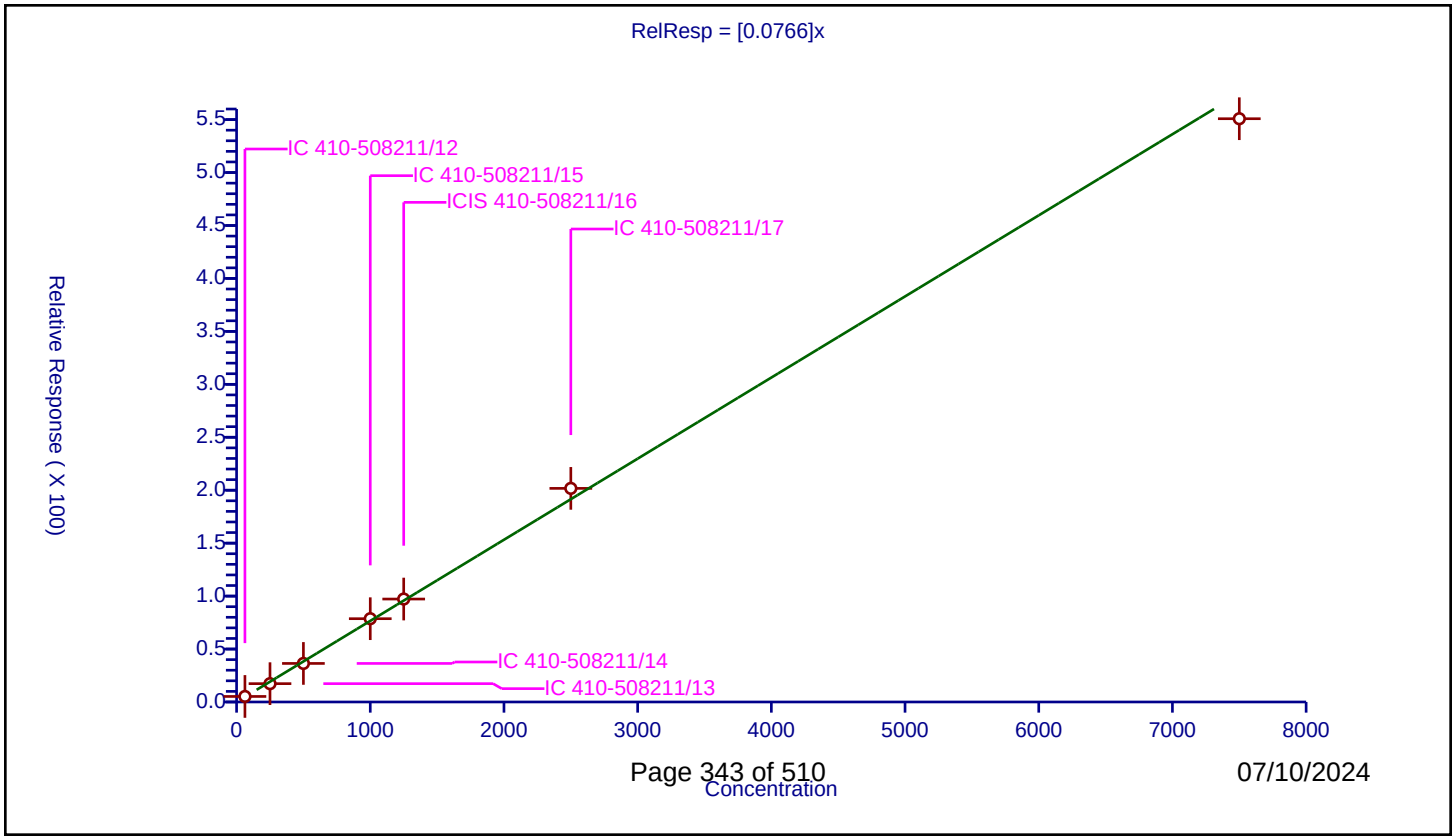
Curve Coefficients

Intercept:	0
Slope:	0.0766

Error Coefficients

Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	62.502462	5.224968	250.0	610243.0	0.083596	Y
2	IC 410-508211/13	250.009848	17.301023	250.0	566874.0	0.069201	Y
3	IC 410-508211/14	500.019696	36.404619	250.0	617662.0	0.072806	Y
4	IC 410-508211/15	1000.039392	78.664398	250.0	573614.0	0.078661	Y
5	ICIS 410-508211/16	1250.04924	97.22438	250.0	572863.0	0.077776	Y
6	IC 410-508211/17	2500.09848	201.743783	250.0	559244.0	0.080694	Y
7	IC 410-508211/18	7500.29544	550.843001	250.0	589501.0	0.073443	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

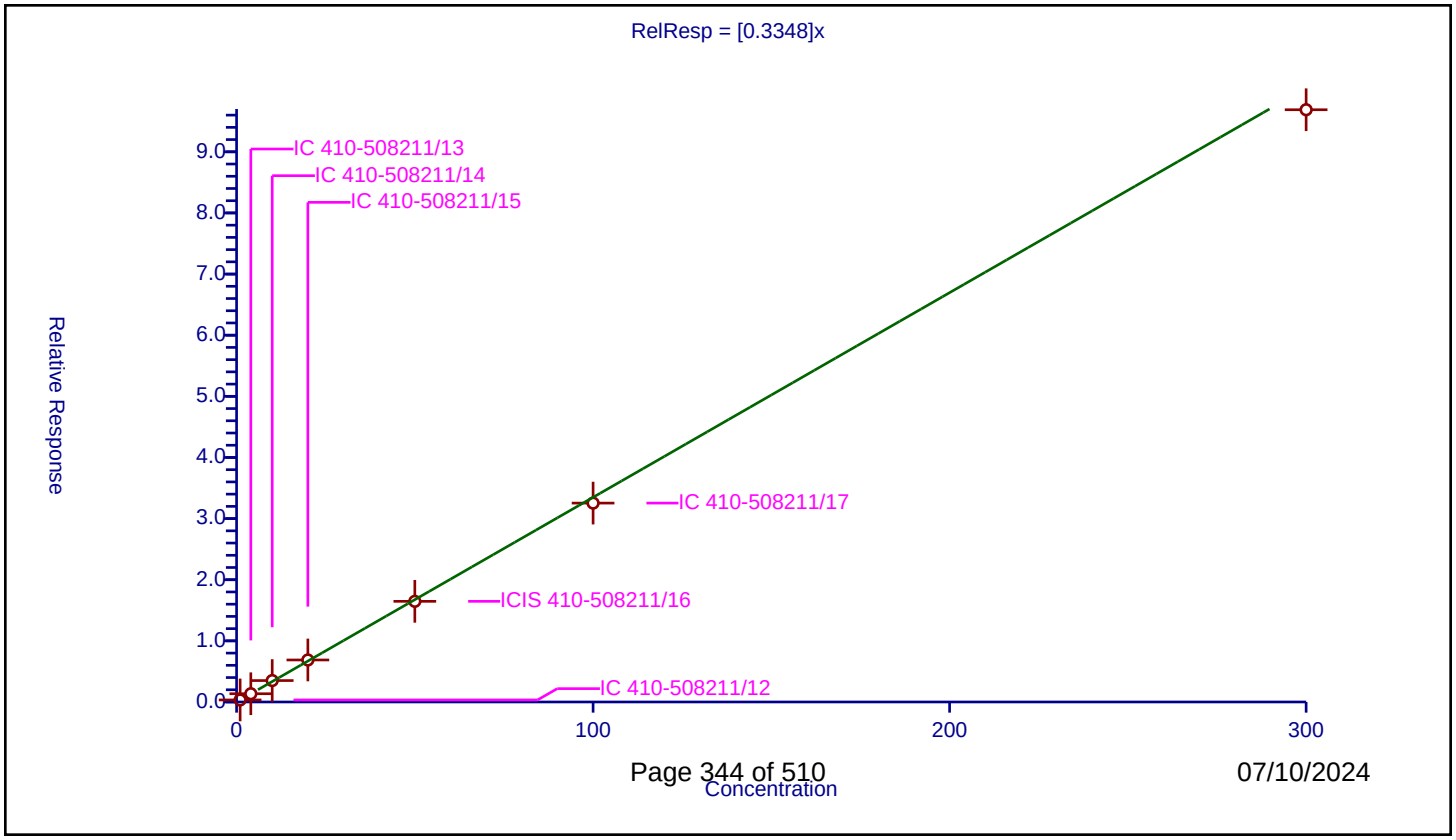
Curve Coefficients

Intercept:	0
Slope:	0.3348

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.334349	50.0	1258715.0	0.334349	Y
2	IC 410-508211/13	4.0	1.349525	50.0	1278820.0	0.337381	Y
3	IC 410-508211/14	10.0	3.505619	50.0	1290685.0	0.350562	Y
4	IC 410-508211/15	20.0	6.872705	50.0	1244219.0	0.343635	Y
5	ICIS 410-508211/16	50.0	16.465672	50.0	1258986.0	0.329313	Y
6	IC 410-508211/17	100.0	32.534654	50.0	1251670.0	0.325347	Y
7	IC 410-508211/18	300.0	96.883904	50.0	1300987.0	0.322946	Y



Calibration / Acrolein

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

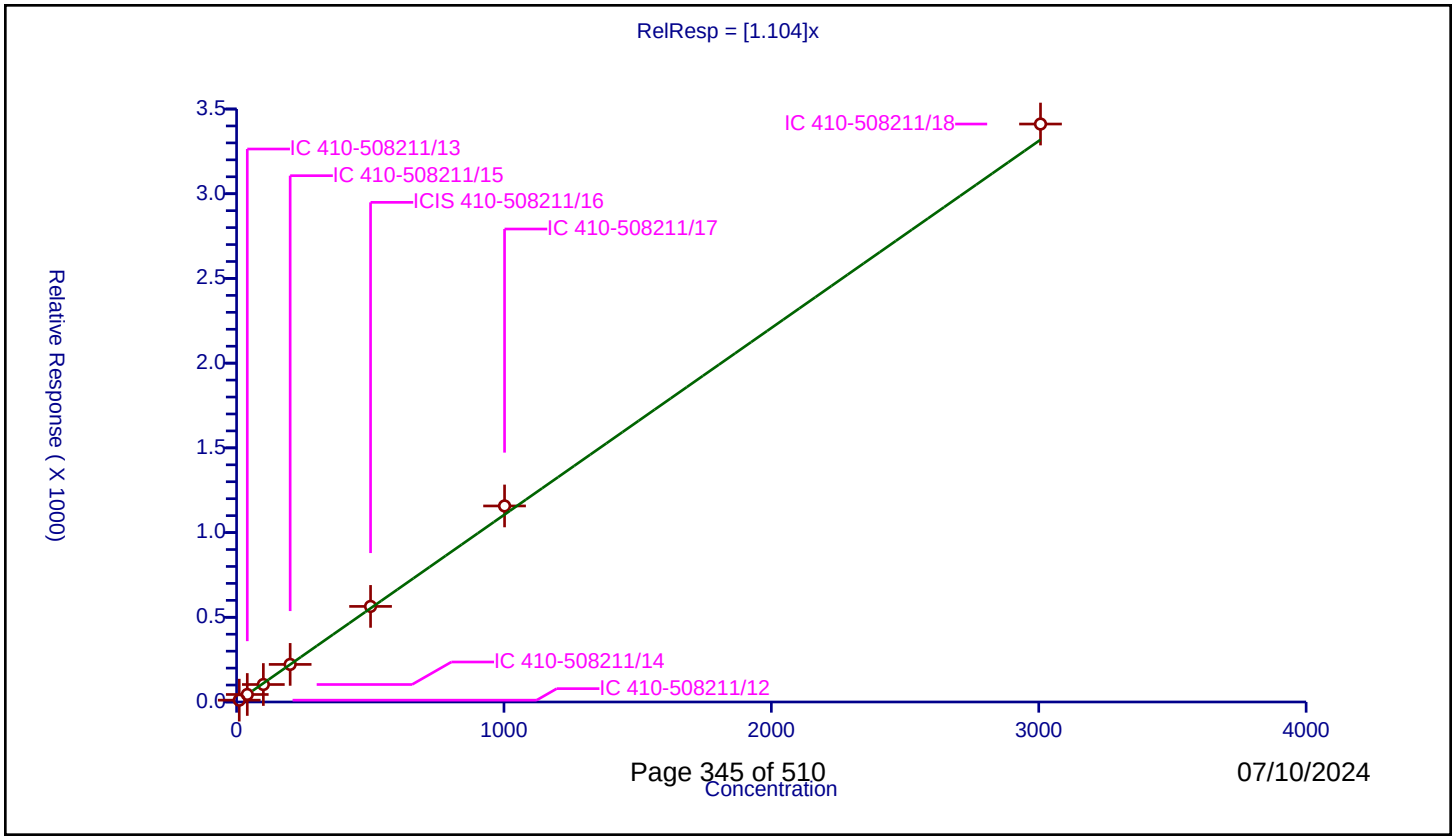
Curve Coefficients

Intercept:	0
Slope:	1.104

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	10.021996	10.733839	250.0	610243.0	1.071028	Y
2	IC 410-508211/13	40.087985	44.289384	250.0	566874.0	1.104804	Y
3	IC 410-508211/14	100.219963	103.111815	250.0	617662.0	1.028855	Y
4	IC 410-508211/15	200.439925	221.860868	250.0	573614.0	1.10687	Y
5	ICIS 410-508211/16	501.099813	564.189867	250.0	572863.0	1.125903	Y
6	IC 410-508211/17	1002.199626	1157.087068	250.0	559244.0	1.154547	Y
7	IC 410-508211/18	3006.598878	3411.418725	250.0	589501.0	1.134644	Y



Calibration / 1,1-Dichloroethene

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

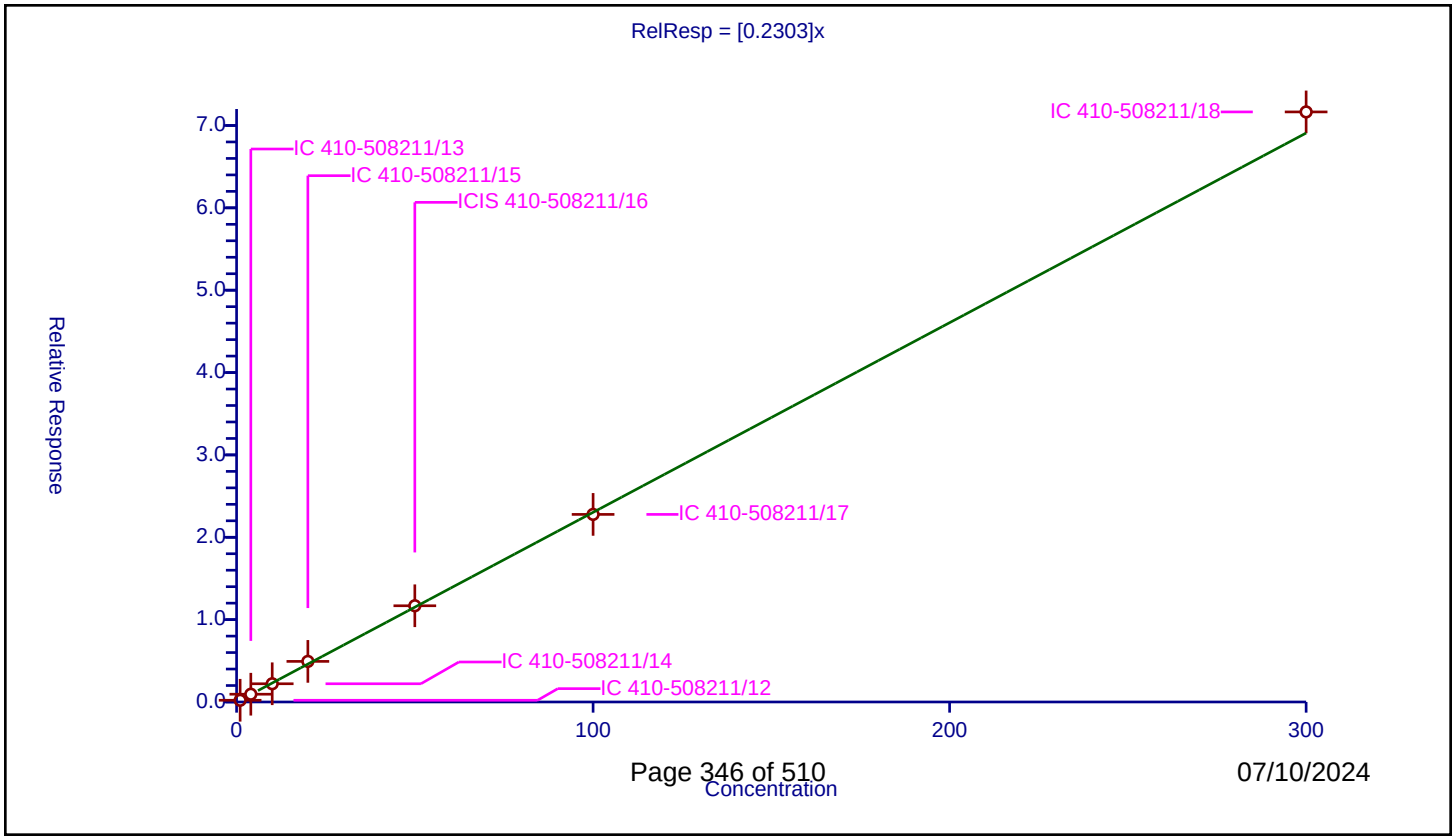
Curve Coefficients

Intercept:	0
Slope:	0.2303

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.20803	50.0	1258715.0	0.20803	Y
2	IC 410-508211/13	4.0	0.942783	50.0	1278820.0	0.235696	Y
3	IC 410-508211/14	10.0	2.21336	50.0	1290685.0	0.221336	Y
4	IC 410-508211/15	20.0	4.930965	50.0	1244219.0	0.246548	Y
5	ICIS 410-508211/16	50.0	11.685118	50.0	1258986.0	0.233702	Y
6	IC 410-508211/17	100.0	22.776451	50.0	1251670.0	0.227765	Y
7	IC 410-508211/18	300.0	71.646258	50.0	1300987.0	0.238821	Y



Calibration / Acetone

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

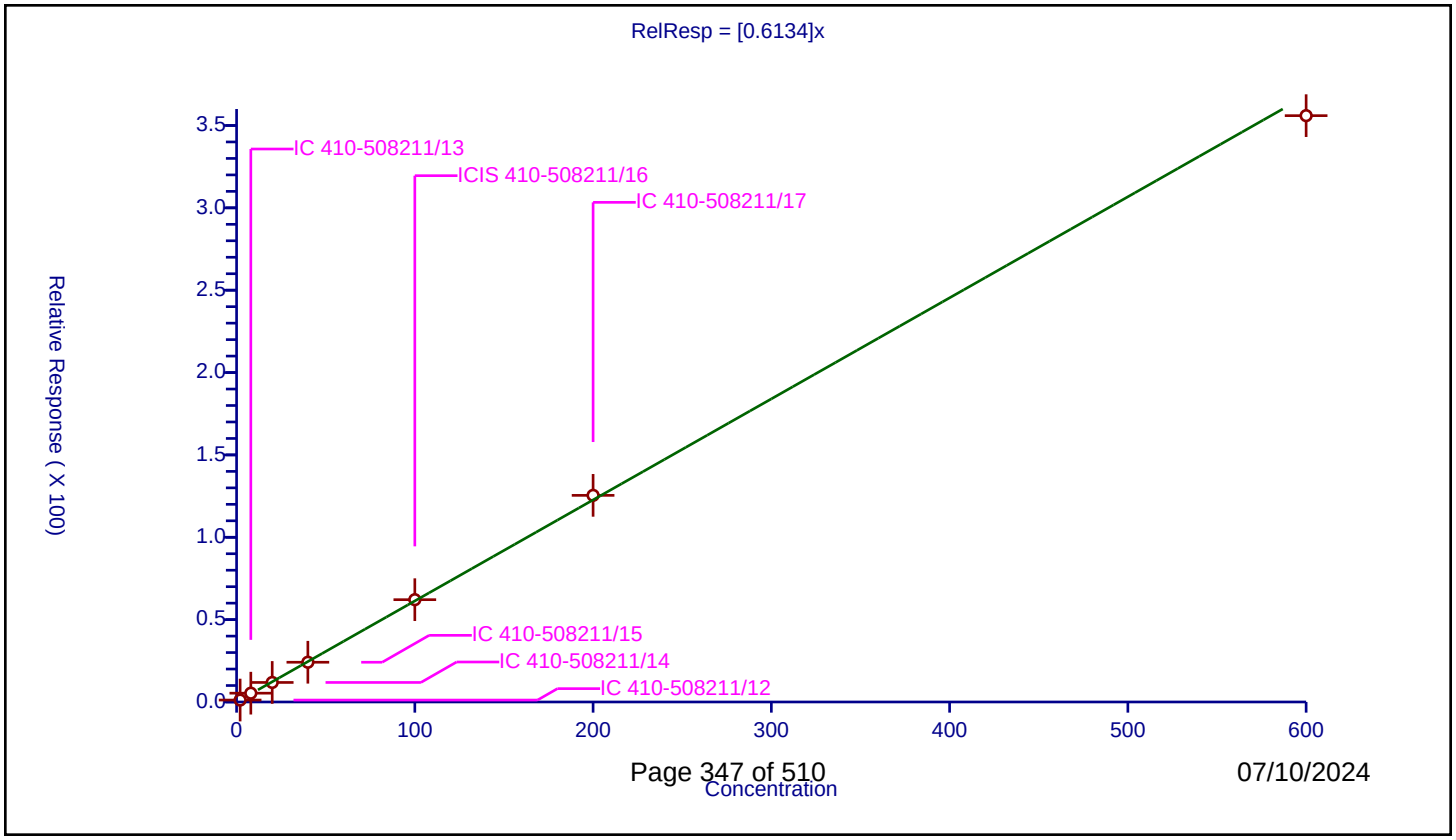
Curve Coefficients

Intercept:	0
Slope:	0.6134

Error Coefficients

Relative Standard Deviation:	4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	2.0	1.174942	250.0	610243.0	0.587471	Y
2	IC 410-508211/13	8.0	5.348631	250.0	566874.0	0.668579	Y
3	IC 410-508211/14	20.0	11.858427	250.0	617662.0	0.592921	Y
4	IC 410-508211/15	40.0	24.132082	250.0	573614.0	0.603302	Y
5	ICIS 410-508211/16	100.0	62.104727	250.0	572863.0	0.621047	Y
6	IC 410-508211/17	200.0	125.452843	250.0	559244.0	0.627264	Y
7	IC 410-508211/18	600.0	355.960804	250.0	589501.0	0.593268	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

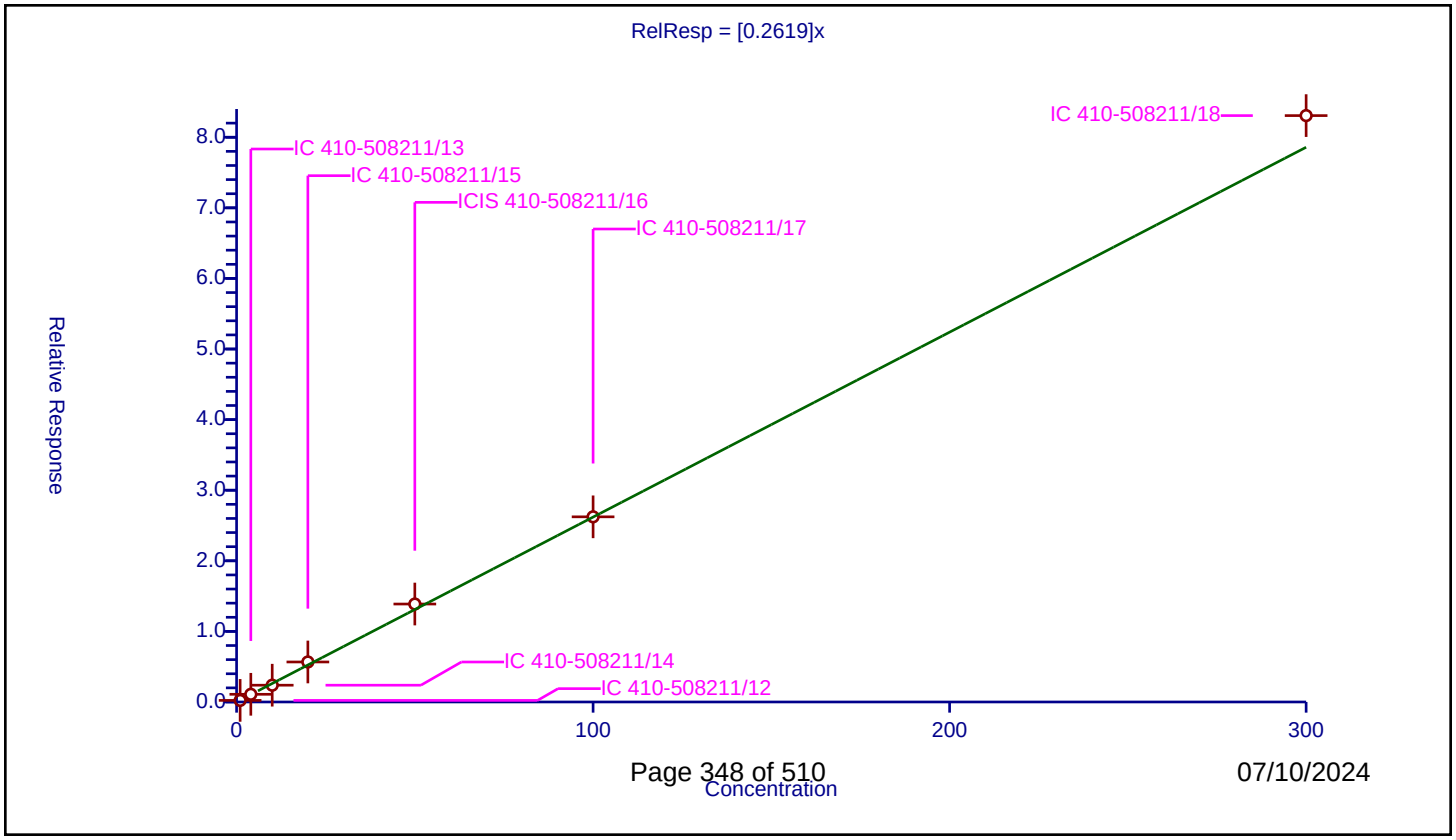
Curve Coefficients

Intercept:	0
Slope:	0.2619

Error Coefficients

Relative Standard Deviation:	8.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.223124	50.0	1258715.0	0.223124	Y
2	IC 410-508211/13	4.0	1.089794	50.0	1278820.0	0.272448	Y
3	IC 410-508211/14	10.0	2.377923	50.0	1290685.0	0.237792	Y
4	IC 410-508211/15	20.0	5.669661	50.0	1244219.0	0.283483	Y
5	ICIS 410-508211/16	50.0	13.876922	50.0	1258986.0	0.277538	Y
6	IC 410-508211/17	100.0	26.230596	50.0	1251670.0	0.262306	Y
7	IC 410-508211/18	300.0	83.067048	50.0	1300987.0	0.27689	Y



Calibration / Isopropyl alcohol

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

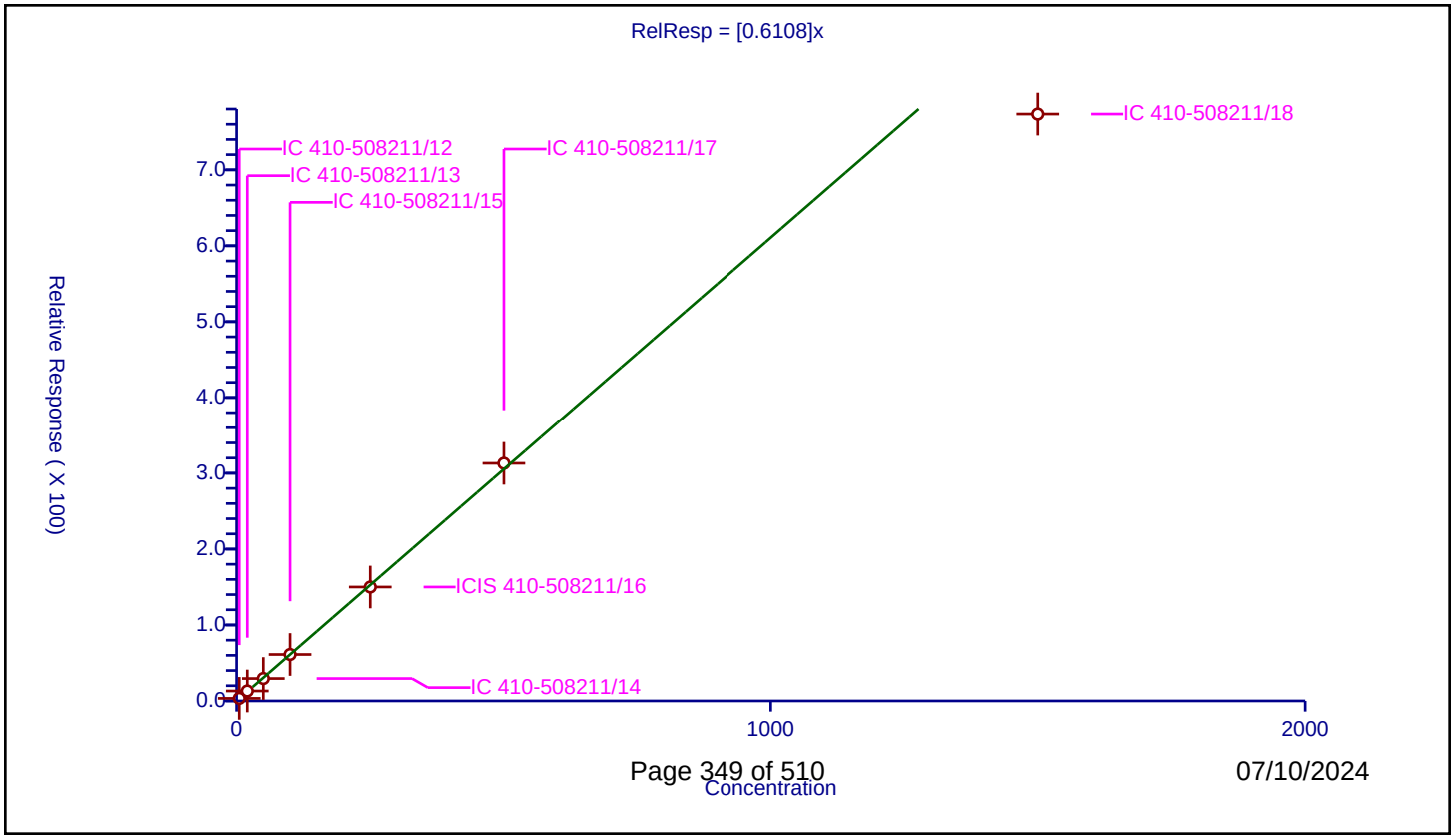
Curve Coefficients

Intercept:	0
Slope:	0.6108

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	5.0	3.388404	250.0	610243.0	0.677681	Y
2	IC 410-508211/13	20.0	13.103882	250.0	566874.0	0.655194	Y
3	IC 410-508211/14	50.0	29.48012	250.0	617662.0	0.589602	Y
4	IC 410-508211/15	100.0	61.111218	250.0	573614.0	0.611112	Y
5	ICIS 410-508211/16	250.0	150.007506	250.0	572863.0	0.60003	Y
6	IC 410-508211/17	500.0	313.087847	250.0	559244.0	0.626176	Y
7	IC 410-508211/18	1500.0	773.359163	250.0	589501.0	0.515573	Y



Calibration / Iodomethane

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

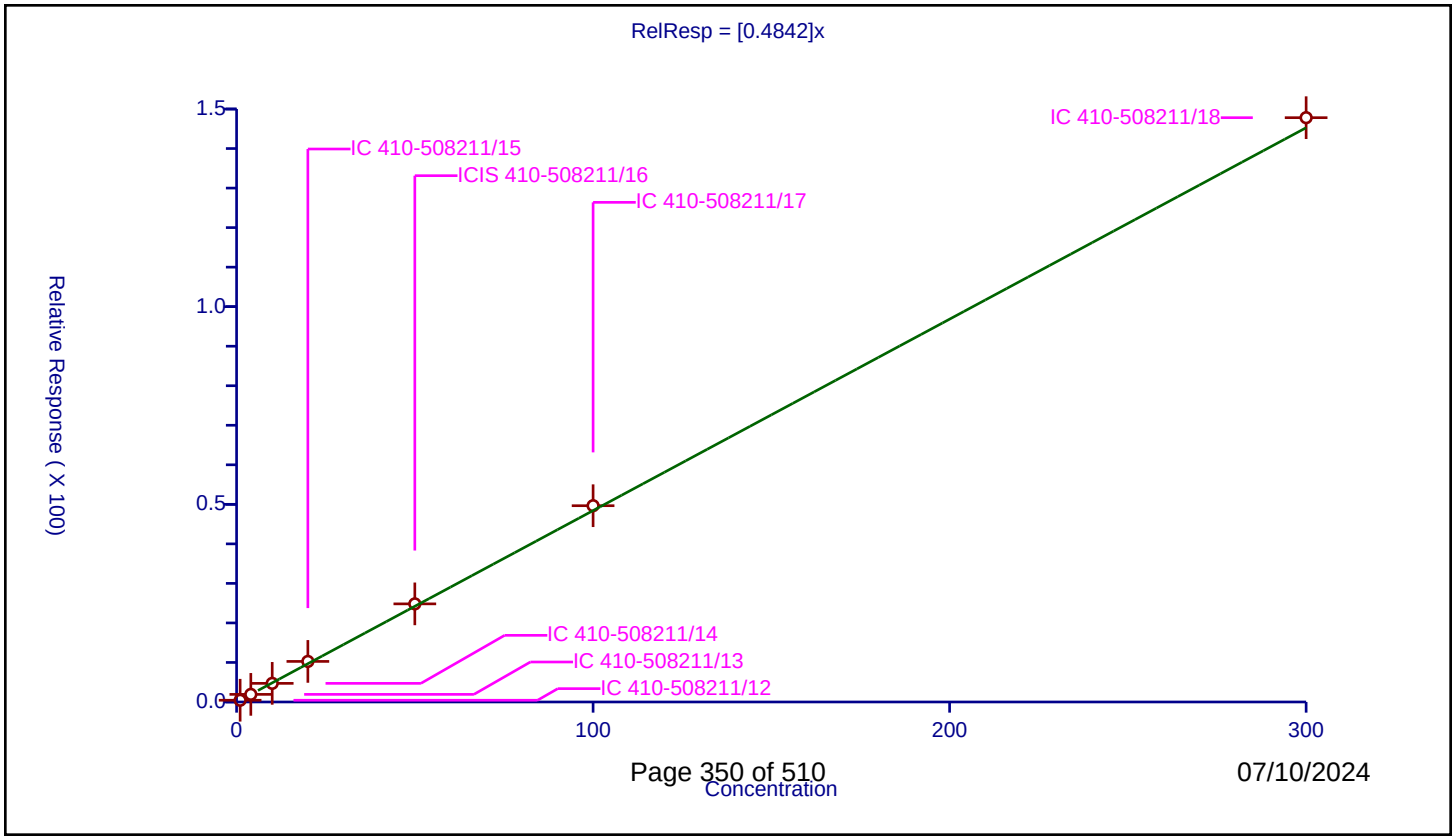
Curve Coefficients

Intercept:	0
Slope:	0.4842

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.438741	50.0	1258715.0	0.438741	Y
2	IC 410-508211/13	4.0	1.92314	50.0	1278820.0	0.480785	Y
3	IC 410-508211/14	10.0	4.713466	50.0	1290685.0	0.471347	Y
4	IC 410-508211/15	20.0	10.260774	50.0	1244219.0	0.513039	Y
5	ICIS 410-508211/16	50.0	24.817313	50.0	1258986.0	0.496346	Y
6	IC 410-508211/17	100.0	49.651506	50.0	1251670.0	0.496515	Y
7	IC 410-508211/18	300.0	147.809701	50.0	1300987.0	0.492699	Y



Calibration / Carbon disulfide

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

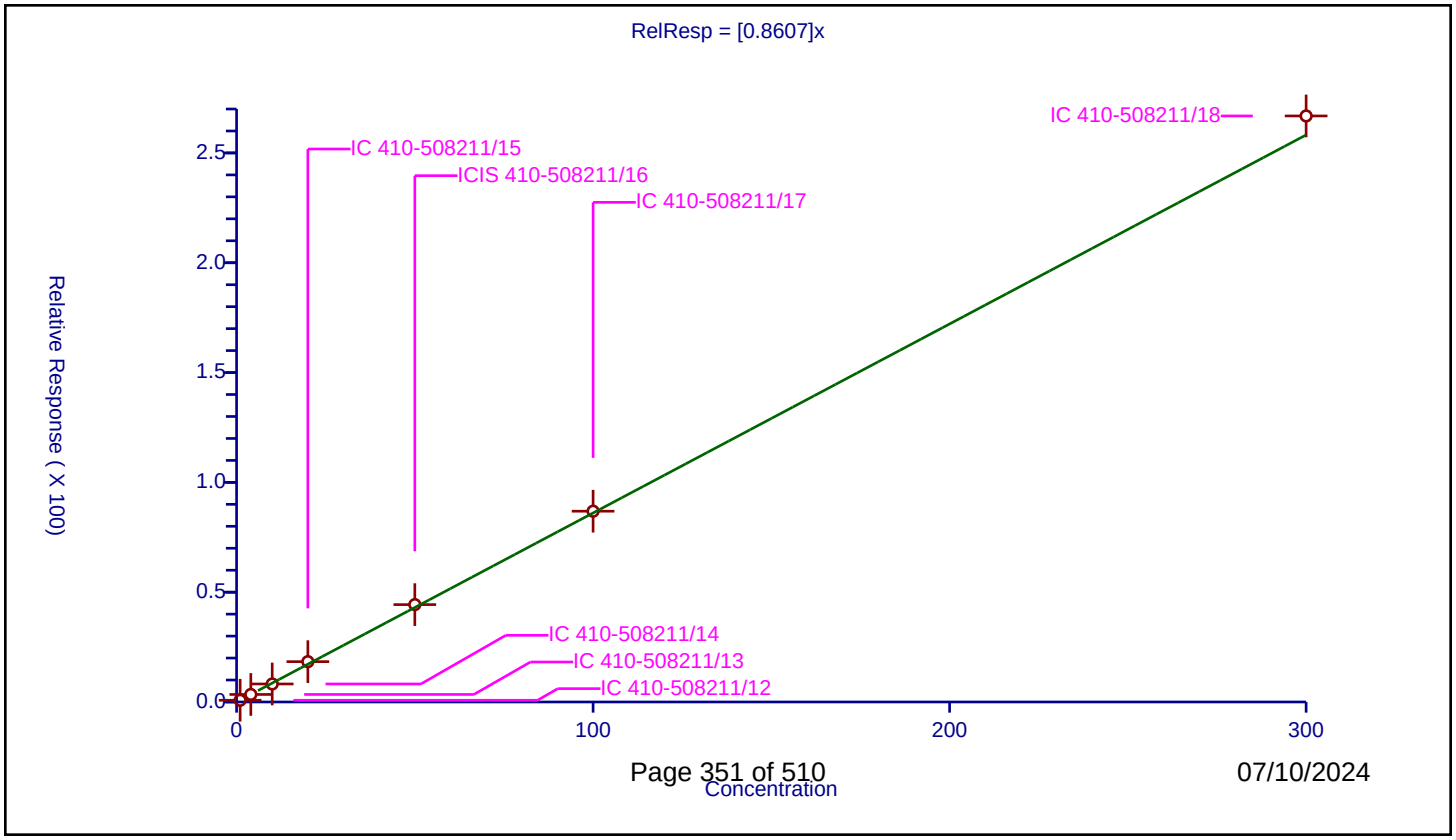
Curve Coefficients

Intercept:	0
Slope:	0.8607

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.783418	50.0	1258715.0	0.783418	Y
2	IC 410-508211/13	4.0	3.434494	50.0	1278820.0	0.858624	Y
3	IC 410-508211/14	10.0	8.197159	50.0	1290685.0	0.819716	Y
4	IC 410-508211/15	20.0	18.359027	50.0	1244219.0	0.917951	Y
5	ICIS 410-508211/16	50.0	44.334131	50.0	1258986.0	0.886683	Y
6	IC 410-508211/17	100.0	86.875974	50.0	1251670.0	0.86876	Y
7	IC 410-508211/18	300.0	266.839177	50.0	1300987.0	0.889464	Y



Calibration / Methyl acetate

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

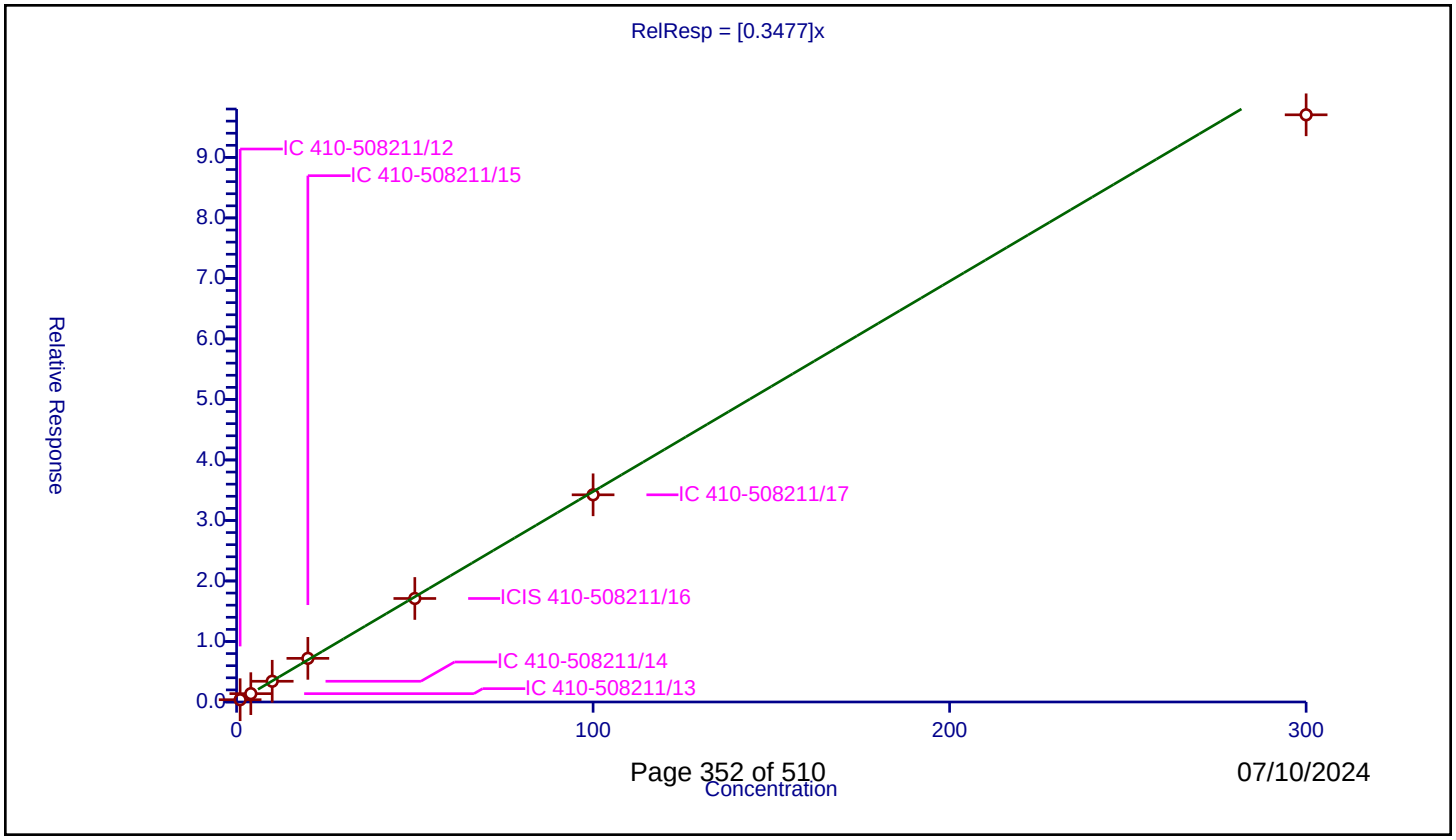
Curve Coefficients

Intercept:	0
Slope:	0.3477

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.377806	50.0	1258715.0	0.377806	Y
2	IC 410-508211/13	4.0	1.377559	50.0	1278820.0	0.34439	Y
3	IC 410-508211/14	10.0	3.428373	50.0	1290685.0	0.342837	Y
4	IC 410-508211/15	20.0	7.212878	50.0	1244219.0	0.360644	Y
5	ICIS 410-508211/16	50.0	17.10857	50.0	1258986.0	0.342171	Y
6	IC 410-508211/17	100.0	34.243051	50.0	1251670.0	0.342431	Y
7	IC 410-508211/18	300.0	97.043937	50.0	1300987.0	0.32348	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

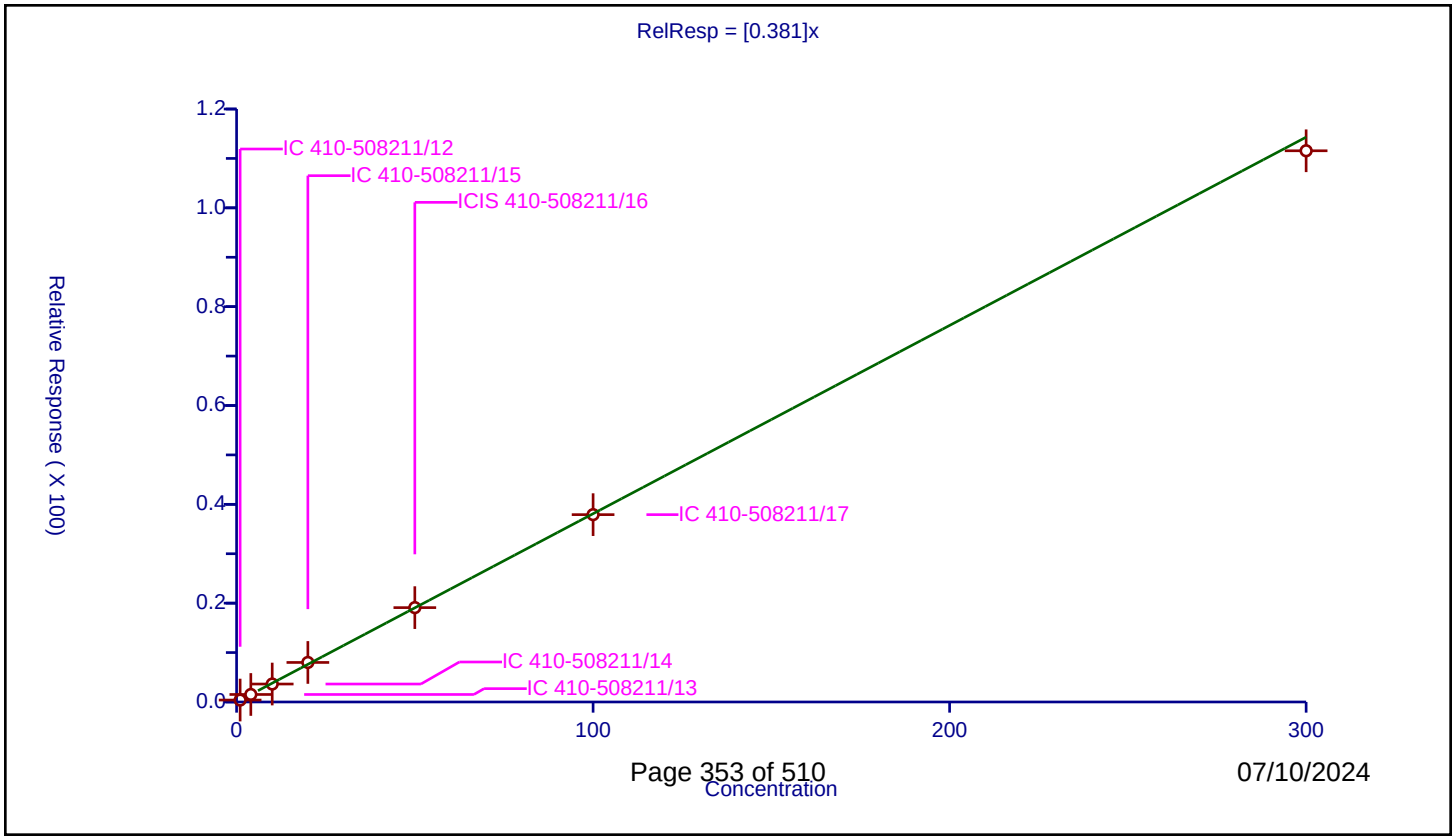
Curve Coefficients

Intercept:	0
Slope:	0.381

Error Coefficients

Relative Standard Deviation:	3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.39155	50.0	1258715.0	0.39155	Y
2	IC 410-508211/13	4.0	1.516476	50.0	1278820.0	0.379119	Y
3	IC 410-508211/14	10.0	3.634582	50.0	1290685.0	0.363458	Y
4	IC 410-508211/15	20.0	8.002289	50.0	1244219.0	0.400114	Y
5	ICIS 410-508211/16	50.0	19.097035	50.0	1258986.0	0.381941	Y
6	IC 410-508211/17	100.0	37.914147	50.0	1251670.0	0.379141	Y
7	IC 410-508211/18	300.0	111.551153	50.0	1300987.0	0.371837	Y



Calibration / Methylene Chloride

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

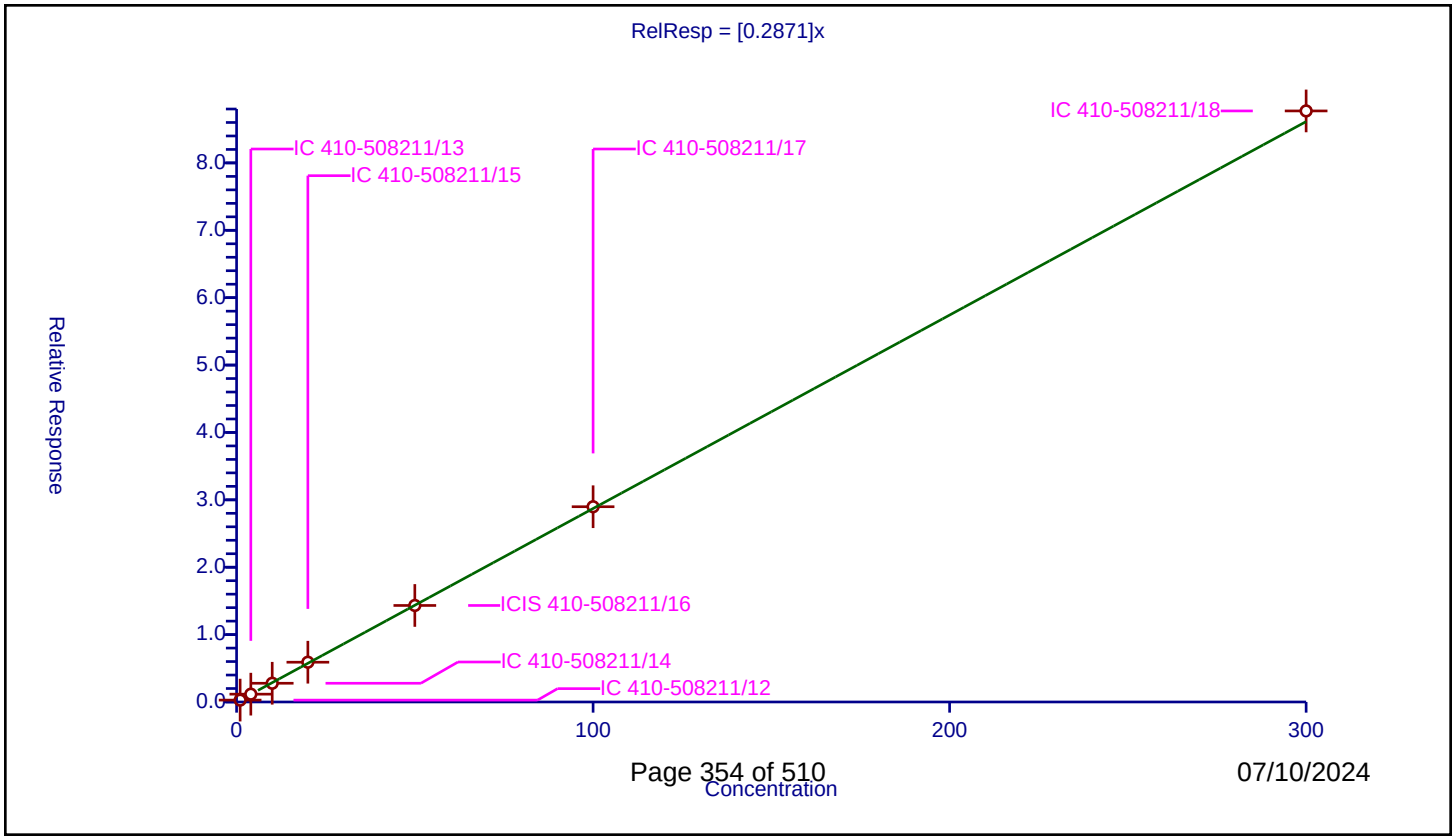
Curve Coefficients

Intercept:	0
Slope:	0.2871

Error Coefficients

Relative Standard Deviation:	2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.277505	50.0	1258715.0	0.277505	Y
2	IC 410-508211/13	4.0	1.161266	50.0	1278820.0	0.290316	Y
3	IC 410-508211/14	10.0	2.781004	50.0	1290685.0	0.2781	Y
4	IC 410-508211/15	20.0	5.904186	50.0	1244219.0	0.295209	Y
5	ICIS 410-508211/16	50.0	14.325854	50.0	1258986.0	0.286517	Y
6	IC 410-508211/17	100.0	28.976487	50.0	1251670.0	0.289765	Y
7	IC 410-508211/18	300.0	87.714827	50.0	1300987.0	0.292383	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

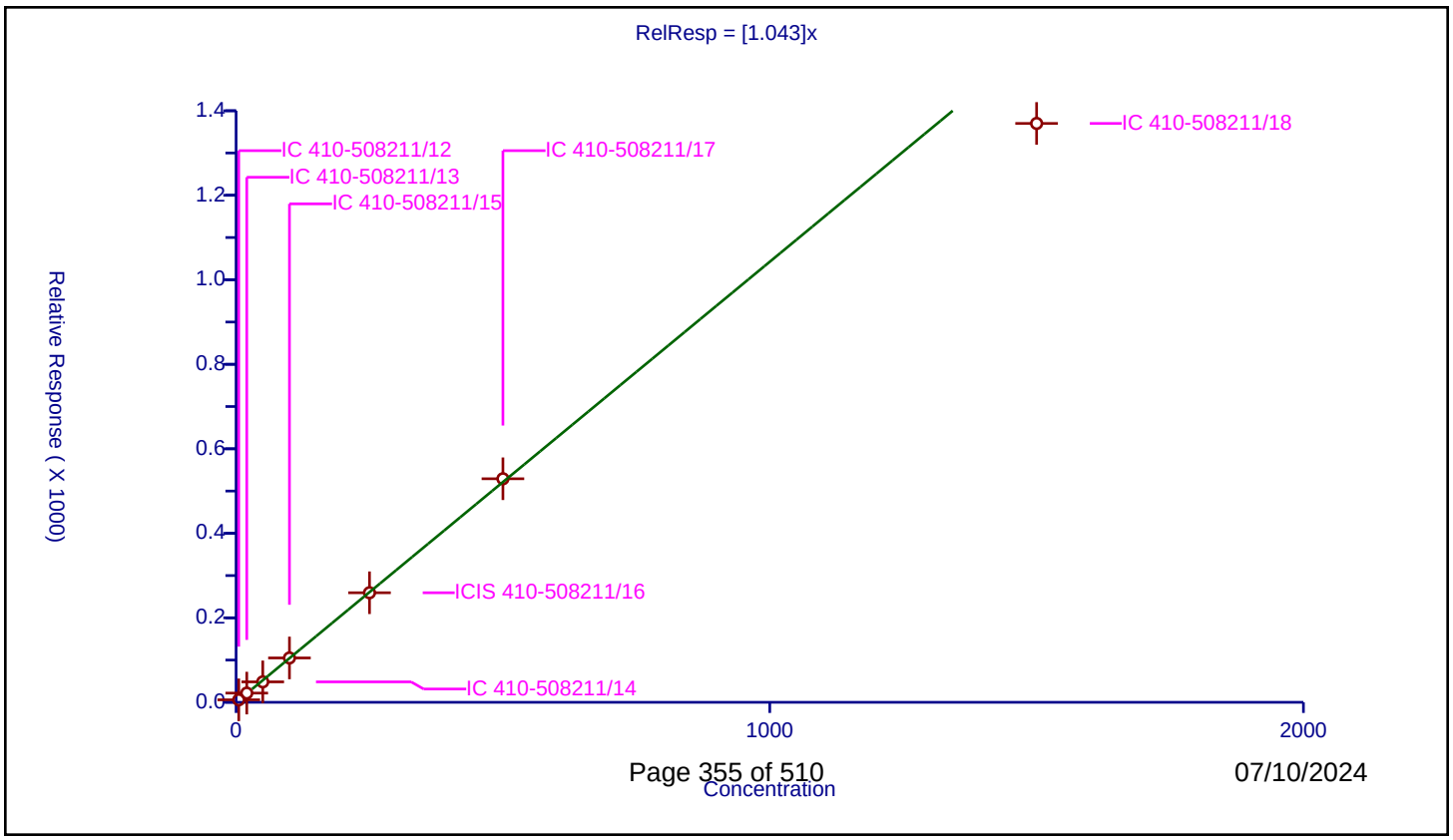
Curve Coefficients

Intercept:	0
Slope:	1.043

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	5.0	5.907892	250.0	610243.0	1.181578	Y
2	IC 410-508211/13	20.0	21.800259	250.0	566874.0	1.090013	Y
3	IC 410-508211/14	50.0	48.394591	250.0	617662.0	0.967892	Y
4	IC 410-508211/15	100.0	104.977389	250.0	573614.0	1.049774	Y
5	ICIS 410-508211/16	250.0	259.269668	250.0	572863.0	1.037079	Y
6	IC 410-508211/17	500.0	529.085247	250.0	559244.0	1.05817	Y
7	IC 410-508211/18	1500.0	1369.955691	250.0	589501.0	0.913304	Y



Calibration / Acrylonitrile

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

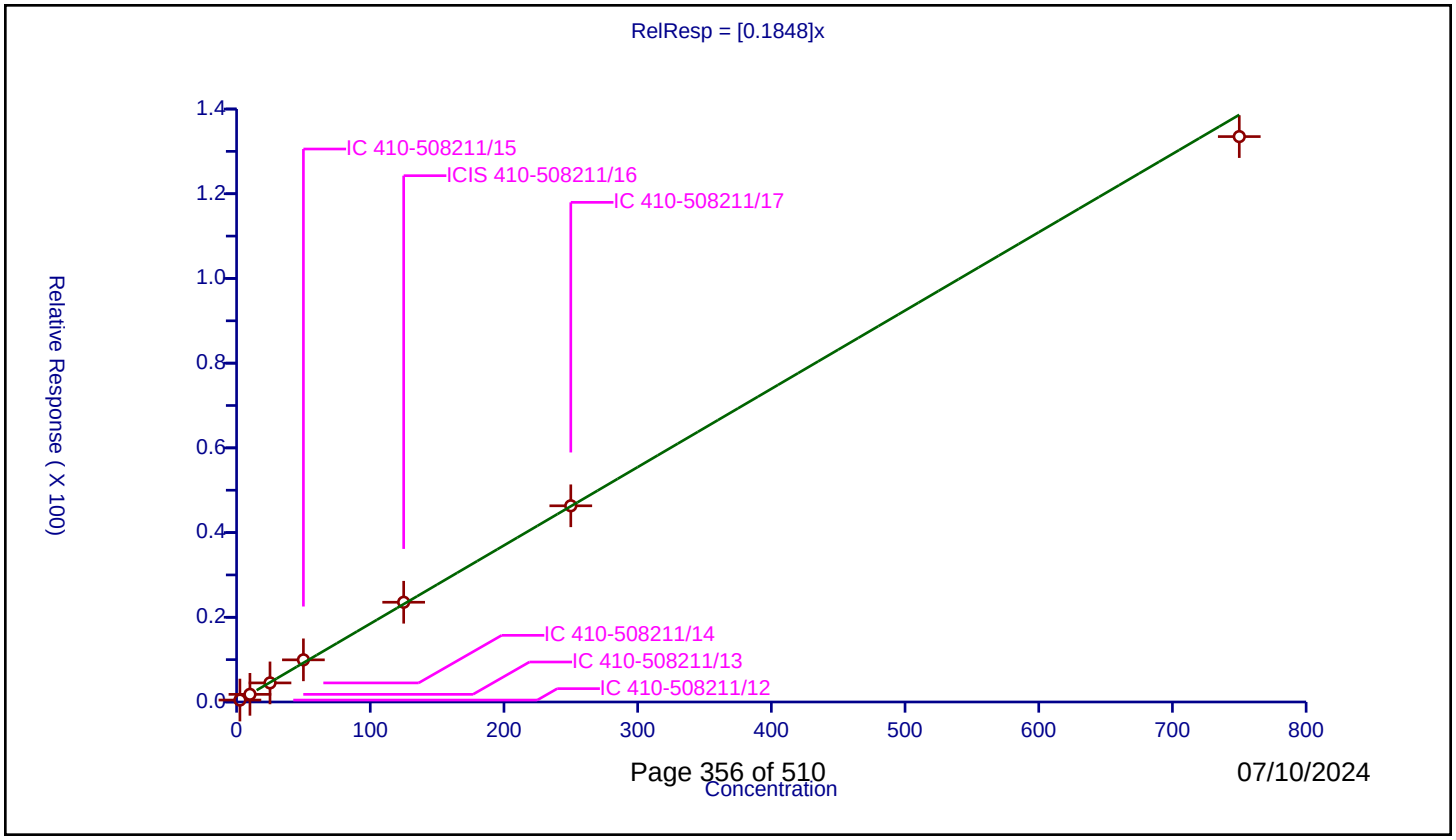
Curve Coefficients

Intercept:	0
Slope:	0.1848

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	2.5	0.456418	50.0	1258715.0	0.182567	Y
2	IC 410-508211/13	10.0	1.804398	50.0	1278820.0	0.18044	Y
3	IC 410-508211/14	25.0	4.504469	50.0	1290685.0	0.180179	Y
4	IC 410-508211/15	50.0	9.952066	50.0	1244219.0	0.199041	Y
5	ICIS 410-508211/16	125.0	23.546886	50.0	1258986.0	0.188375	Y
6	IC 410-508211/17	250.0	46.324031	50.0	1251670.0	0.185296	Y
7	IC 410-508211/18	750.0	133.492956	50.0	1300987.0	0.177991	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

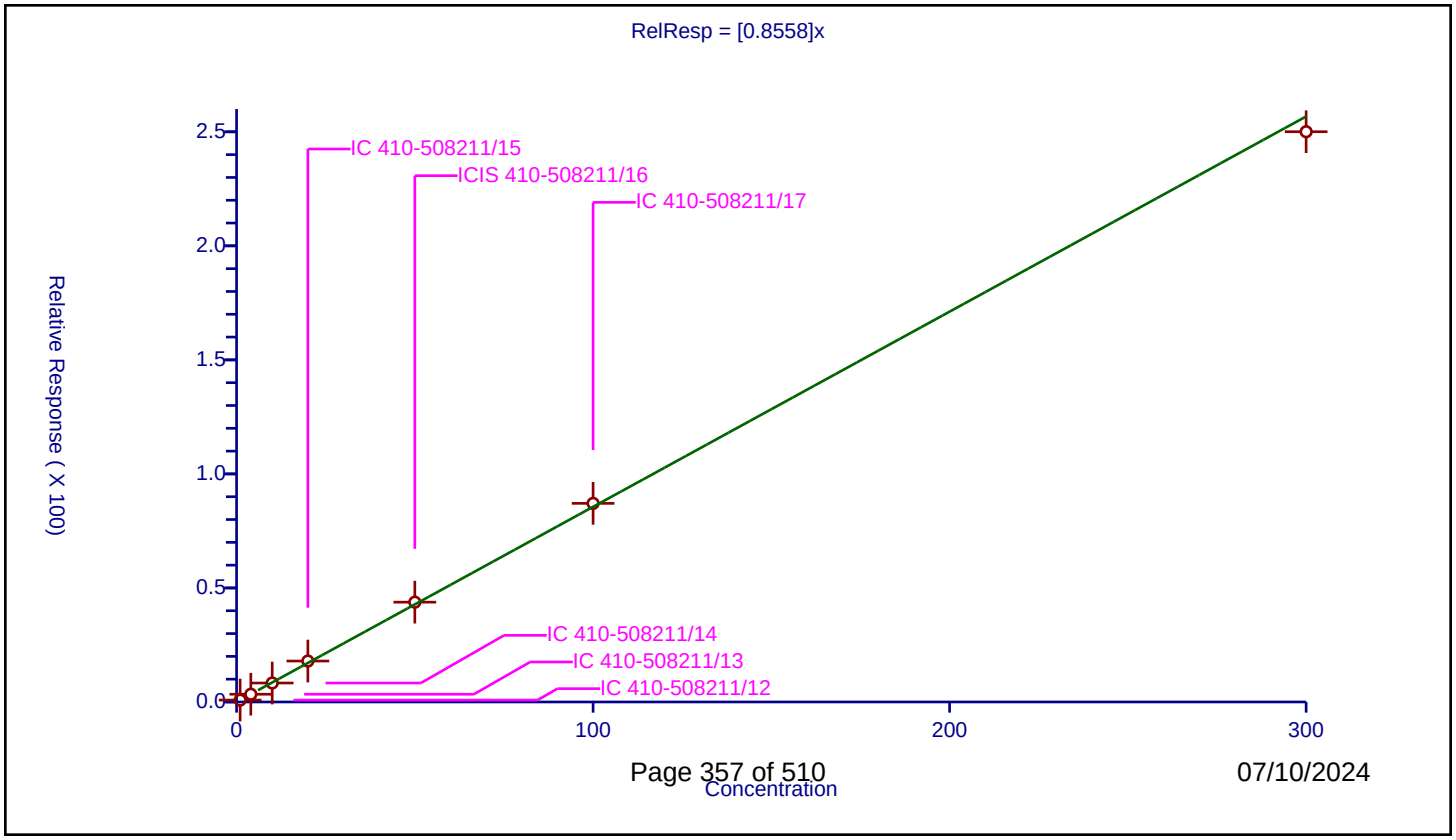
Curve Coefficients

Intercept:	0
Slope:	0.8558

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.833429	50.0	1258715.0	0.833429	Y
2	IC 410-508211/13	4.0	3.391564	50.0	1278820.0	0.847891	Y
3	IC 410-508211/14	10.0	8.314693	50.0	1290685.0	0.831469	Y
4	IC 410-508211/15	20.0	17.95532	50.0	1244219.0	0.897766	Y
5	ICIS 410-508211/16	50.0	43.770066	50.0	1258986.0	0.875401	Y
6	IC 410-508211/17	100.0	87.085534	50.0	1251670.0	0.870855	Y
7	IC 410-508211/18	300.0	250.05492	50.0	1300987.0	0.833516	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

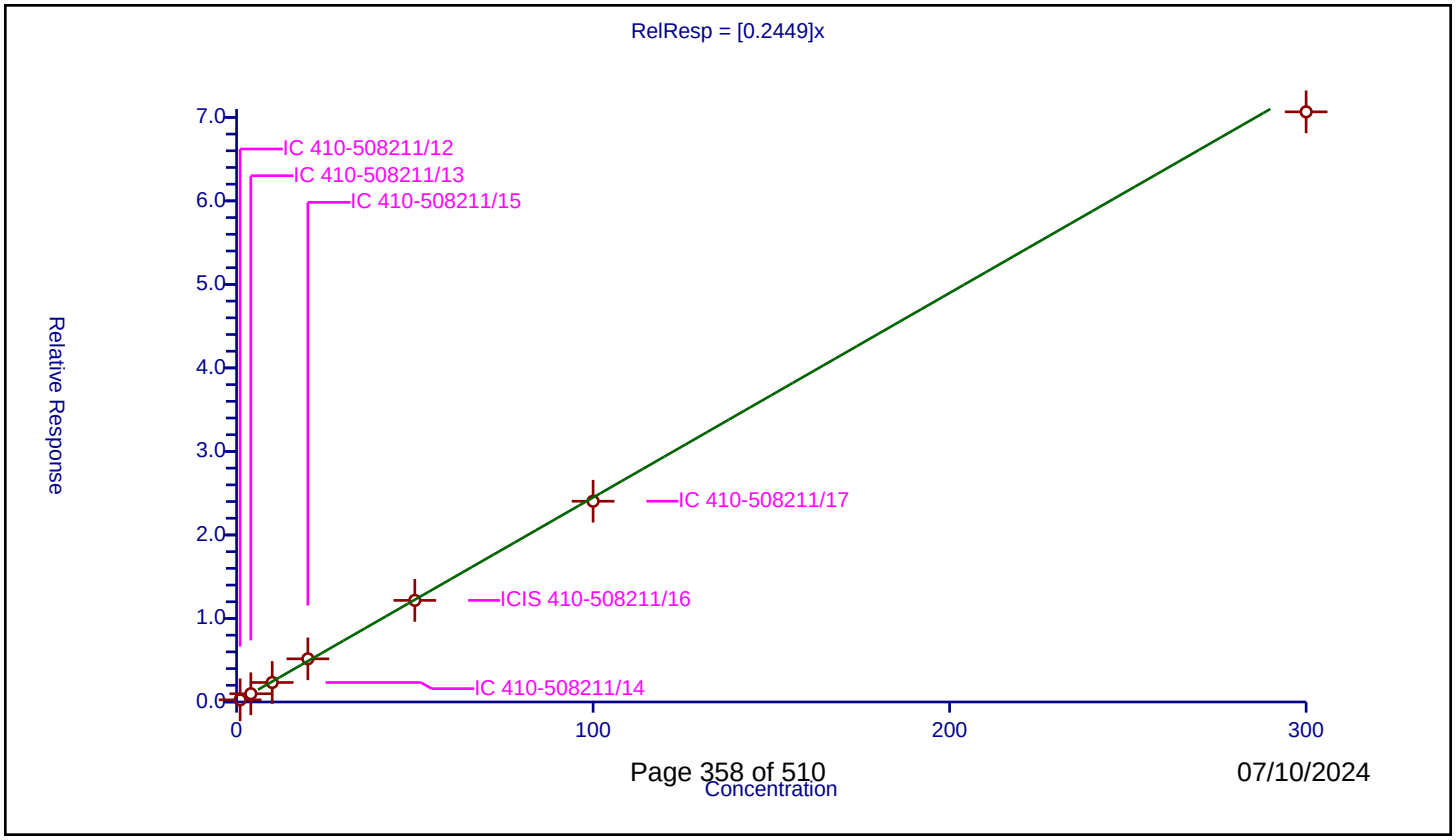
Curve Coefficients

Intercept:	0
Slope:	0.2449

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.255618	50.0	1258715.0	0.255618	Y
2	IC 410-508211/13	4.0	0.98931	50.0	1278820.0	0.247328	Y
3	IC 410-508211/14	10.0	2.334226	50.0	1290685.0	0.233423	Y
4	IC 410-508211/15	20.0	5.168101	50.0	1244219.0	0.258405	Y
5	ICIS 410-508211/16	50.0	12.168165	50.0	1258986.0	0.243363	Y
6	IC 410-508211/17	100.0	24.037885	50.0	1251670.0	0.240379	Y
7	IC 410-508211/18	300.0	70.661083	50.0	1300987.0	0.235537	Y



Calibration / Hexane

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

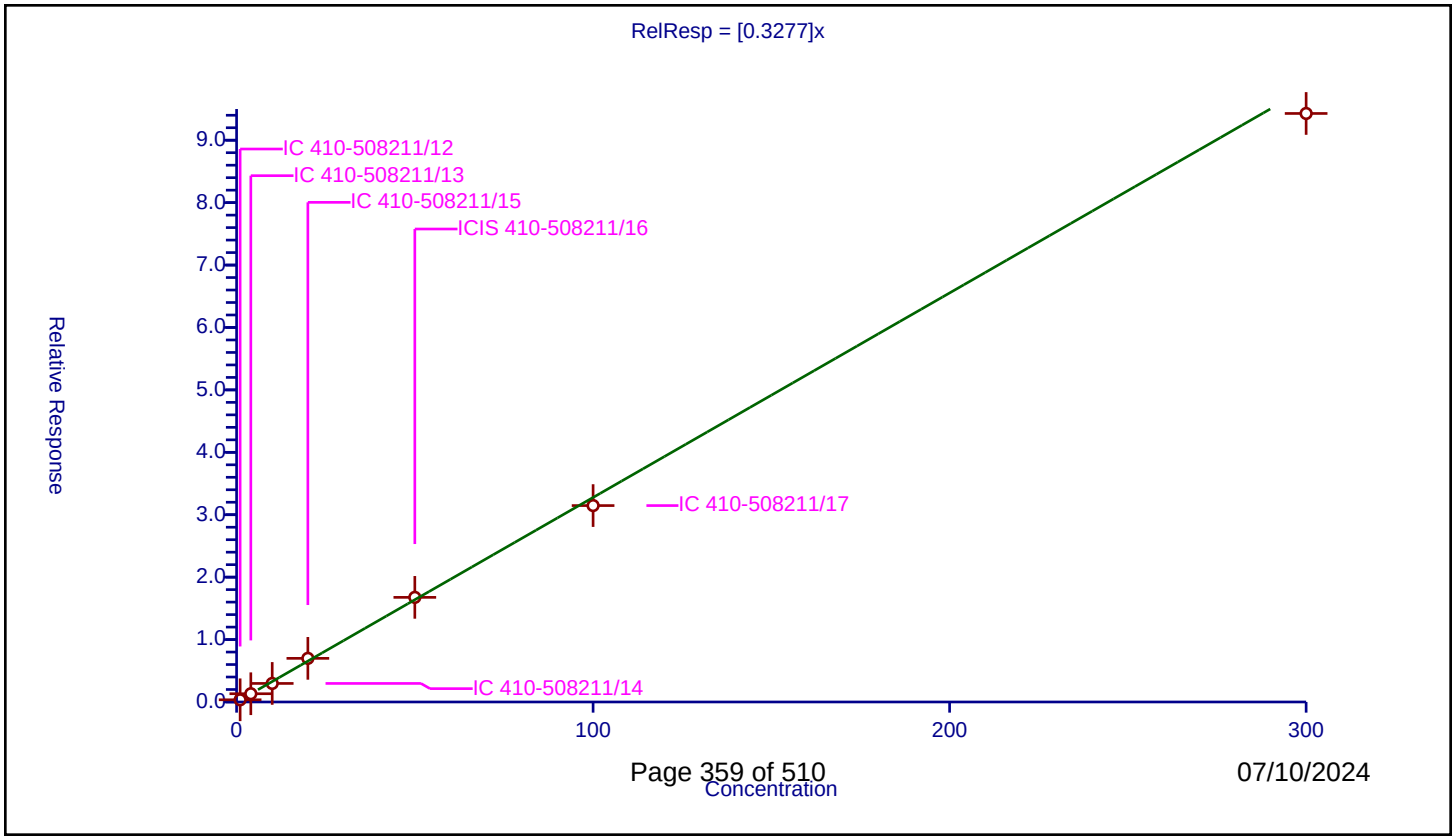
Curve Coefficients

Intercept:	0
Slope:	0.3277

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.352105	50.0	1258715.0	0.352105	Y
2	IC 410-508211/13	4.0	1.322977	50.0	1278820.0	0.330744	Y
3	IC 410-508211/14	10.0	2.970826	50.0	1290685.0	0.297083	Y
4	IC 410-508211/15	20.0	6.989525	50.0	1244219.0	0.349476	Y
5	ICIS 410-508211/16	50.0	16.762101	50.0	1258986.0	0.335242	Y
6	IC 410-508211/17	100.0	31.469077	50.0	1251670.0	0.314691	Y
7	IC 410-508211/18	300.0	94.286492	50.0	1300987.0	0.314288	Y



Calibration / 1,1-Dichloroethane

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

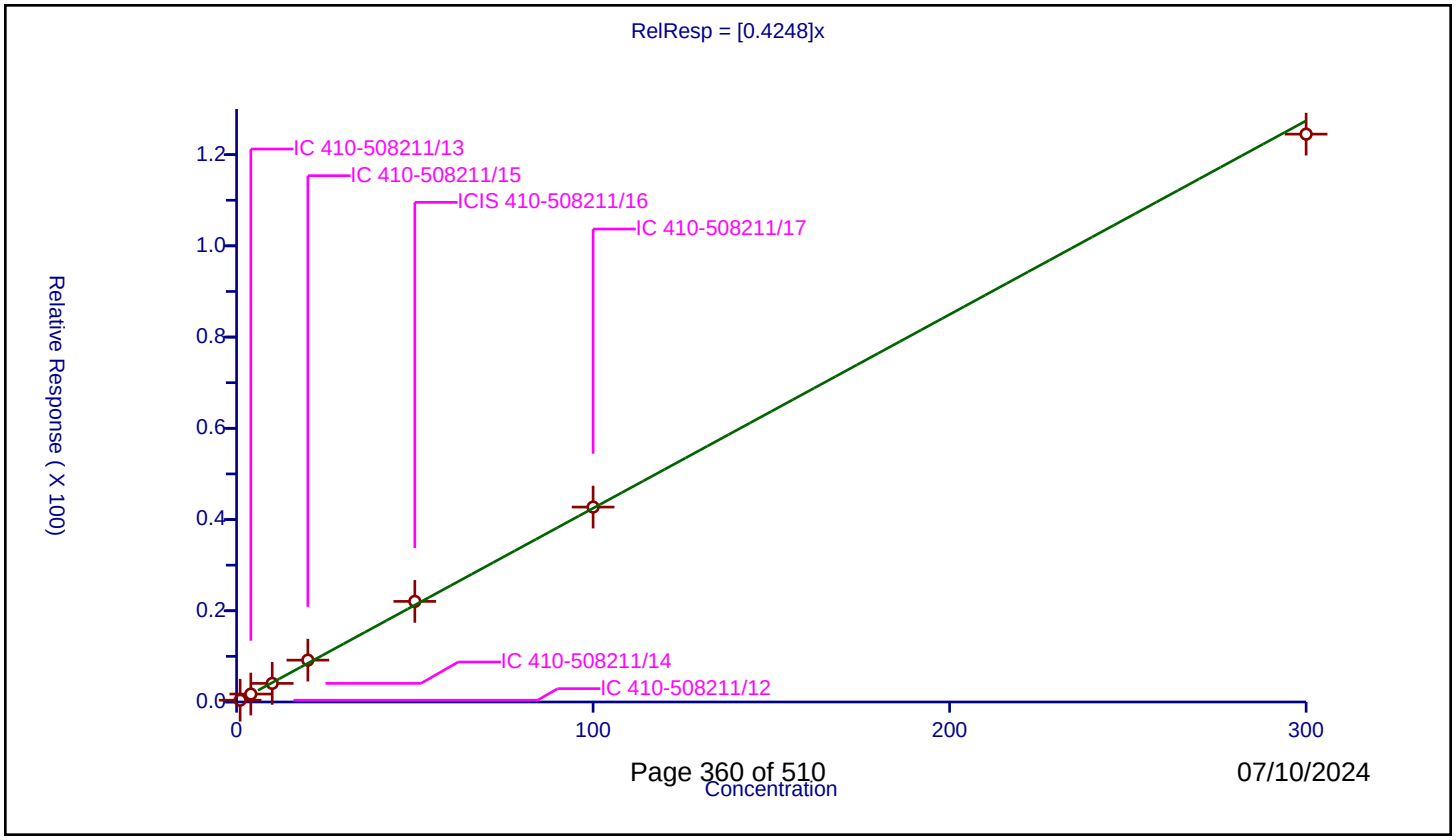
Curve Coefficients

Intercept:	0
Slope:	0.4248

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.388968	50.0	1258715.0	0.388968	Y
2	IC 410-508211/13	4.0	1.737617	50.0	1278820.0	0.434404	Y
3	IC 410-508211/14	10.0	4.076595	50.0	1290685.0	0.407659	Y
4	IC 410-508211/15	20.0	9.176359	50.0	1244219.0	0.458818	Y
5	ICIS 410-508211/16	50.0	22.055368	50.0	1258986.0	0.441107	Y
6	IC 410-508211/17	100.0	42.735625	50.0	1251670.0	0.427356	Y
7	IC 410-508211/18	300.0	124.49325	50.0	1300987.0	0.414978	Y



Calibration / Isopropyl ether

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

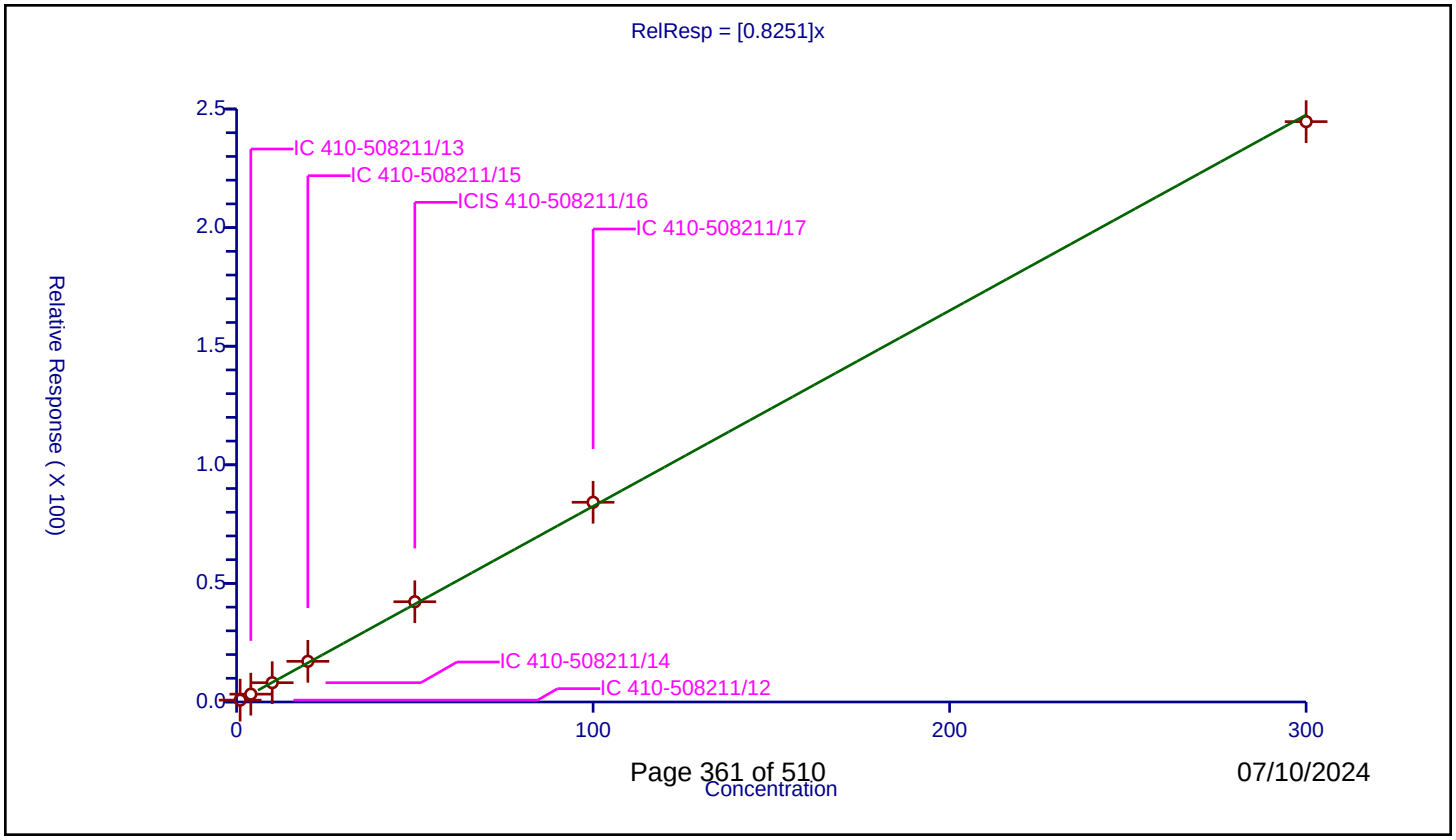
Curve Coefficients

Intercept:	0
Slope:	0.8251

Error Coefficients

Relative Standard Deviation:	3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.776625	50.0	1258715.0	0.776625	Y
2	IC 410-508211/13	4.0	3.302576	50.0	1278820.0	0.825644	Y
3	IC 410-508211/14	10.0	8.137656	50.0	1290685.0	0.813766	Y
4	IC 410-508211/15	20.0	17.136814	50.0	1244219.0	0.856841	Y
5	ICIS 410-508211/16	50.0	42.264648	50.0	1258986.0	0.845293	Y
6	IC 410-508211/17	100.0	84.19891	50.0	1251670.0	0.841989	Y
7	IC 410-508211/18	300.0	244.679578	50.0	1300987.0	0.815599	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

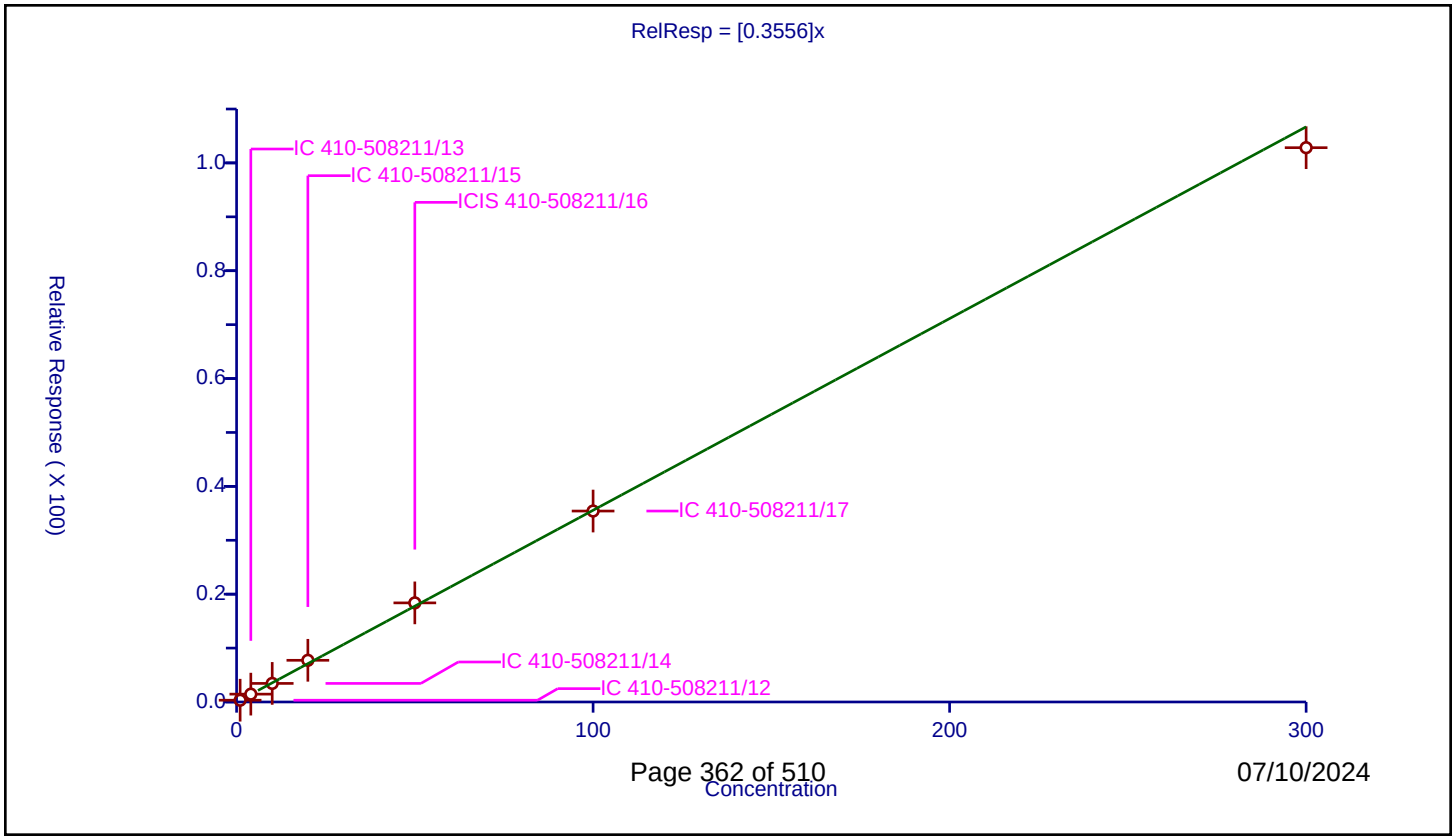
Curve Coefficients

Intercept:	0
Slope:	0.3556

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.329662	50.0	1258715.0	0.329662	Y
2	IC 410-508211/13	4.0	1.454622	50.0	1278820.0	0.363656	Y
3	IC 410-508211/14	10.0	3.44782	50.0	1290685.0	0.344782	Y
4	IC 410-508211/15	20.0	7.734169	50.0	1244219.0	0.386708	Y
5	ICIS 410-508211/16	50.0	18.38694	50.0	1258986.0	0.367739	Y
6	IC 410-508211/17	100.0	35.421956	50.0	1251670.0	0.35422	Y
7	IC 410-508211/18	300.0	102.8267	50.0	1300987.0	0.342756	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

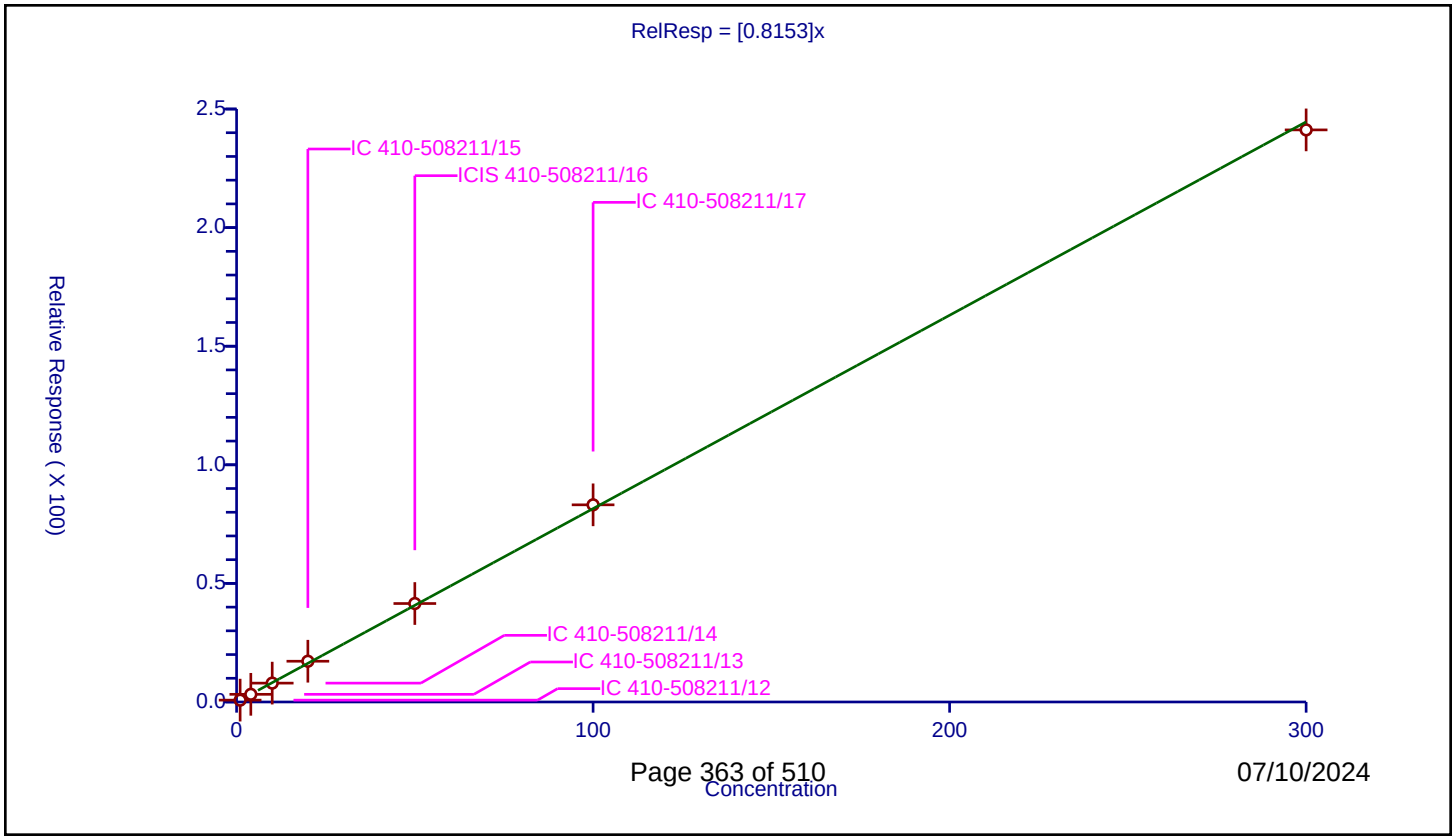
Curve Coefficients

Intercept:	0
Slope:	0.8153

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.779763	50.0	1258715.0	0.779763	Y
2	IC 410-508211/13	4.0	3.229735	50.0	1278820.0	0.807434	Y
3	IC 410-508211/14	10.0	7.949461	50.0	1290685.0	0.794946	Y
4	IC 410-508211/15	20.0	17.185359	50.0	1244219.0	0.859268	Y
5	ICIS 410-508211/16	50.0	41.509993	50.0	1258986.0	0.8302	Y
6	IC 410-508211/17	100.0	83.122908	50.0	1251670.0	0.831229	Y
7	IC 410-508211/18	300.0	241.201488	50.0	1300987.0	0.804005	Y



Calibration / 2-Butanone (MEK)

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

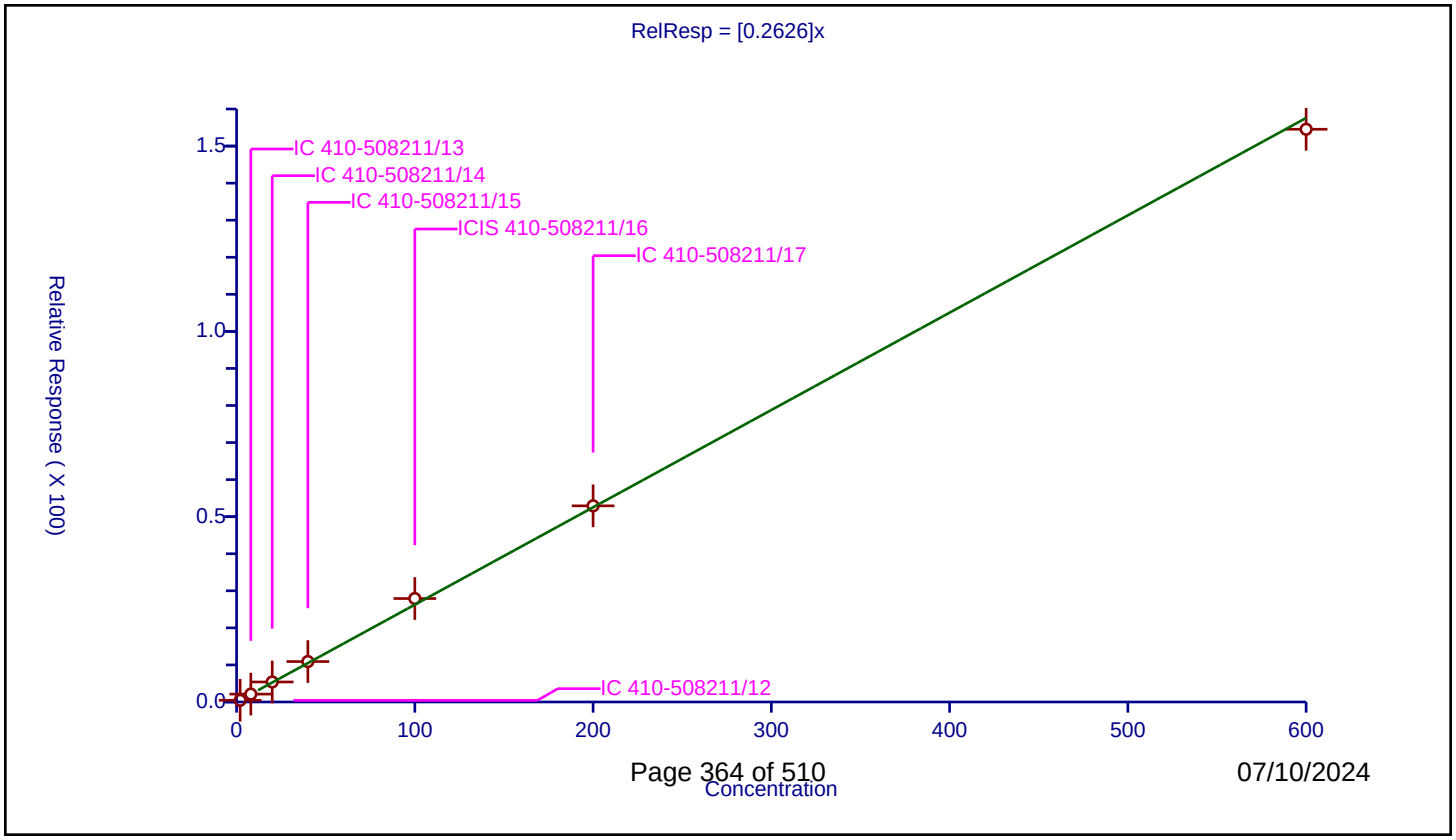
Curve Coefficients

Intercept:	0
Slope:	0.2626

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	2.0	0.456577	50.0	1258715.0	0.228288	Y
2	IC 410-508211/13	8.0	2.128368	50.0	1278820.0	0.266046	Y
3	IC 410-508211/14	20.0	5.397367	50.0	1290685.0	0.269868	Y
4	IC 410-508211/15	40.0	10.914759	50.0	1244219.0	0.272869	Y
5	ICIS 410-508211/16	100.0	27.914449	50.0	1258986.0	0.279144	Y
6	IC 410-508211/17	200.0	52.923974	50.0	1251670.0	0.26462	Y
7	IC 410-508211/18	600.0	154.54063	50.0	1300987.0	0.257568	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

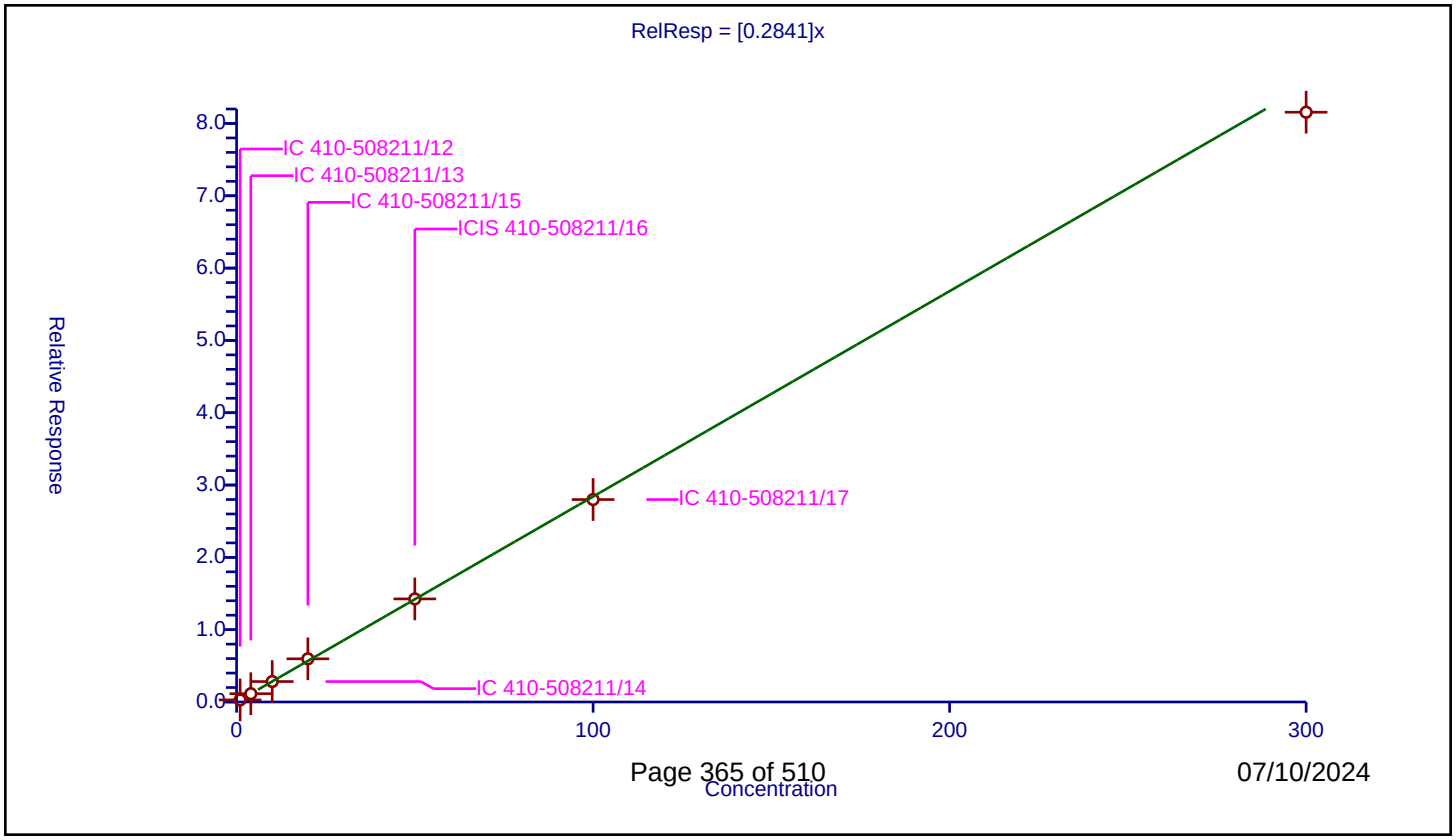
Curve Coefficients

Intercept:	0
Slope:	0.2841

Error Coefficients

Relative Standard Deviation:	2.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.284139	50.0	1258715.0	0.284139	Y
2	IC 410-508211/13	4.0	1.144962	50.0	1278820.0	0.28624	Y
3	IC 410-508211/14	10.0	2.82722	50.0	1290685.0	0.282722	Y
4	IC 410-508211/15	20.0	5.969367	50.0	1244219.0	0.298468	Y
5	ICIS 410-508211/16	50.0	14.253653	50.0	1258986.0	0.285073	Y
6	IC 410-508211/17	100.0	27.992842	50.0	1251670.0	0.279928	Y
7	IC 410-508211/18	300.0	81.558079	50.0	1300987.0	0.27186	Y



Calibration / 2,2-Dichloropropane

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

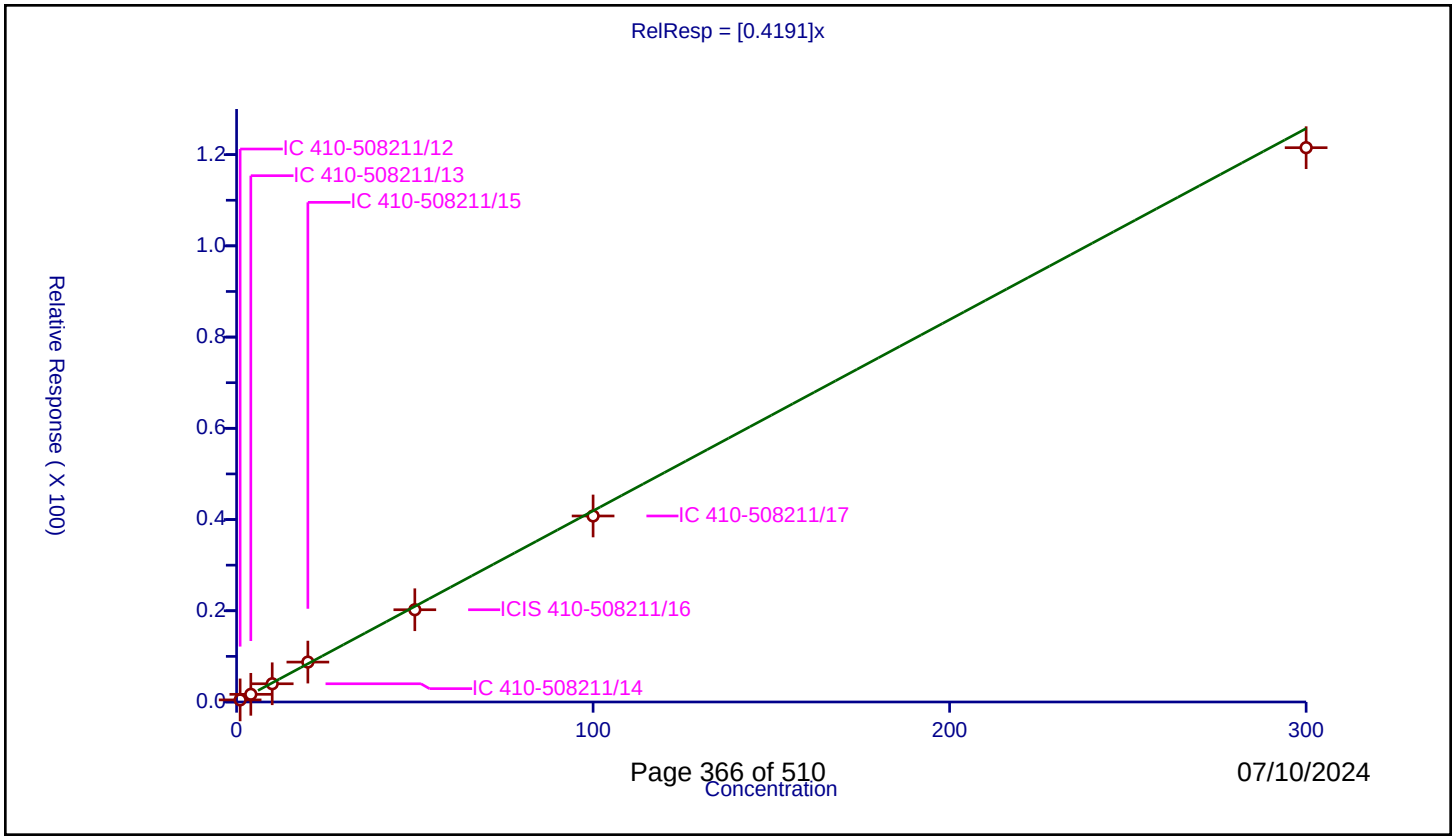
Curve Coefficients

Intercept:	0
Slope:	0.4191

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.458841	50.0	1258715.0	0.458841	Y
2	IC 410-508211/13	4.0	1.681785	50.0	1278820.0	0.420446	Y
3	IC 410-508211/14	10.0	3.994274	50.0	1290685.0	0.399427	Y
4	IC 410-508211/15	20.0	8.751072	50.0	1244219.0	0.437554	Y
5	ICIS 410-508211/16	50.0	20.224371	50.0	1258986.0	0.404487	Y
6	IC 410-508211/17	100.0	40.782275	50.0	1251670.0	0.407823	Y
7	IC 410-508211/18	300.0	121.524812	50.0	1300987.0	0.405083	Y



Calibration / Propionitrile

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

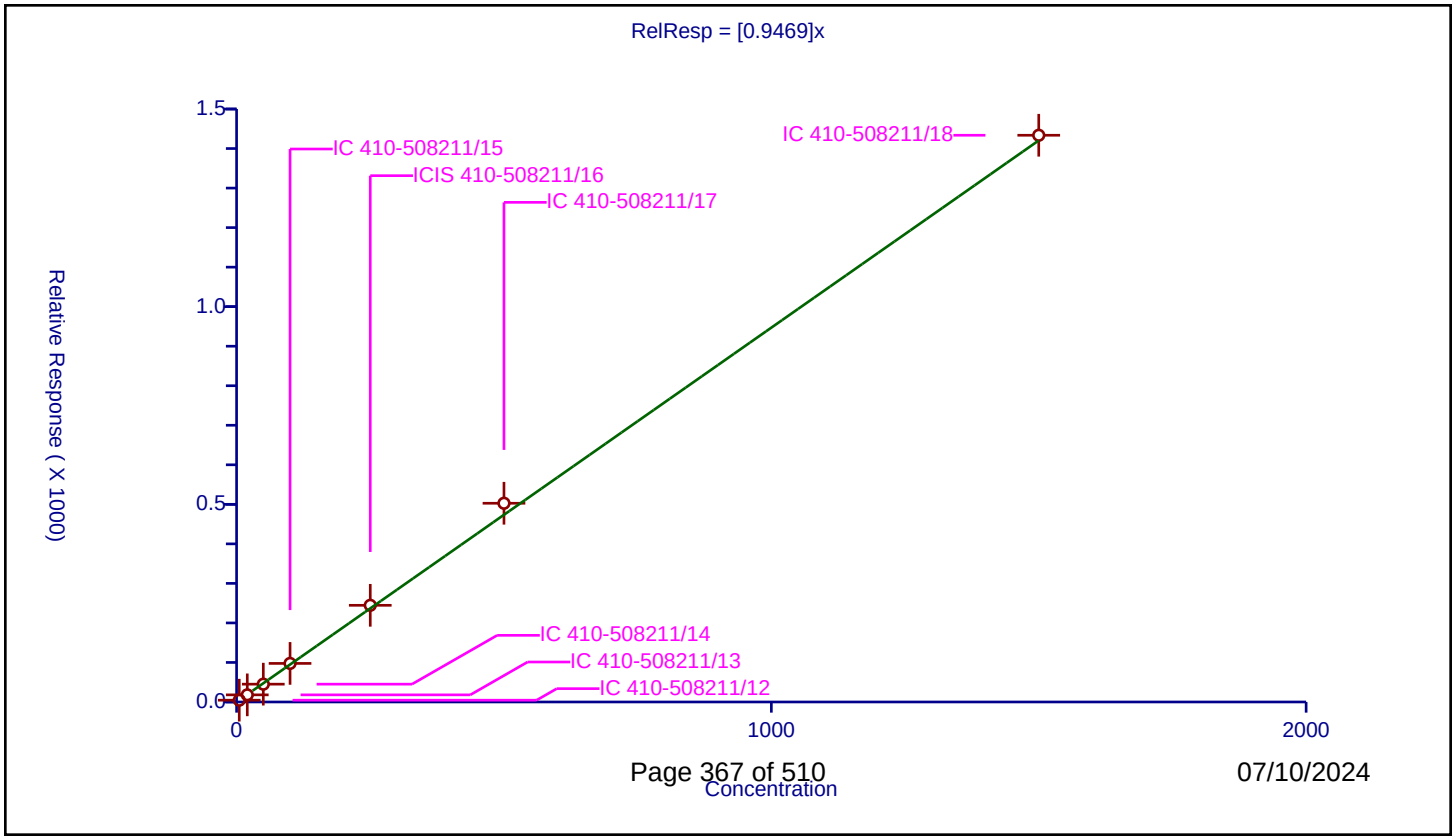
Curve Coefficients

Intercept:	0
Slope:	0.9469

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	5.0	4.543682	250.0	610243.0	0.908736	Y
2	IC 410-508211/13	20.0	18.056923	250.0	566874.0	0.902846	Y
3	IC 410-508211/14	50.0	45.082909	250.0	617662.0	0.901658	Y
4	IC 410-508211/15	100.0	97.573891	250.0	573614.0	0.975739	Y
5	ICIS 410-508211/16	250.0	244.592512	250.0	572863.0	0.97837	Y
6	IC 410-508211/17	500.0	502.722425	250.0	559244.0	1.005445	Y
7	IC 410-508211/18	1500.0	1433.616737	250.0	589501.0	0.955744	Y



Calibration / Methyl acrylate

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

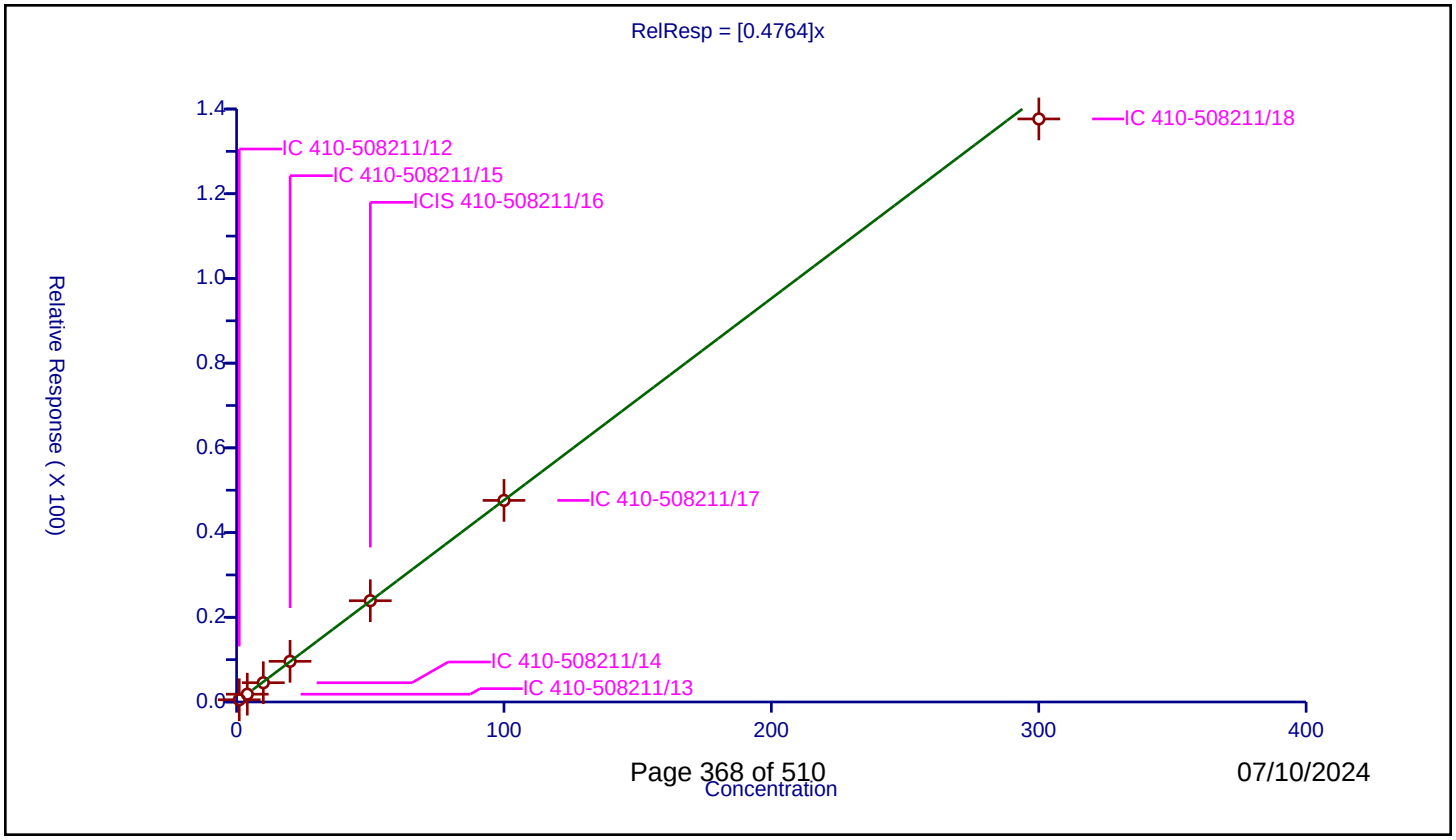
Curve Coefficients

Intercept:	0
Slope:	0.4764

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.00014	0.52641	50.0	1258715.0	0.526336	Y
2	IC 410-508211/13	4.00056	1.841385	50.0	1278820.0	0.460282	Y
3	IC 410-508211/14	10.0014	4.551382	50.0	1290685.0	0.455074	Y
4	IC 410-508211/15	20.0028	9.605785	50.0	1244219.0	0.480222	Y
5	ICIS 410-508211/16	50.007	23.90658	50.0	1258986.0	0.478065	Y
6	IC 410-508211/17	100.014	47.593895	50.0	1251670.0	0.475872	Y
7	IC 410-508211/18	300.042	137.655449	50.0	1300987.0	0.458787	Y



Calibration / Methacrylonitrile

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

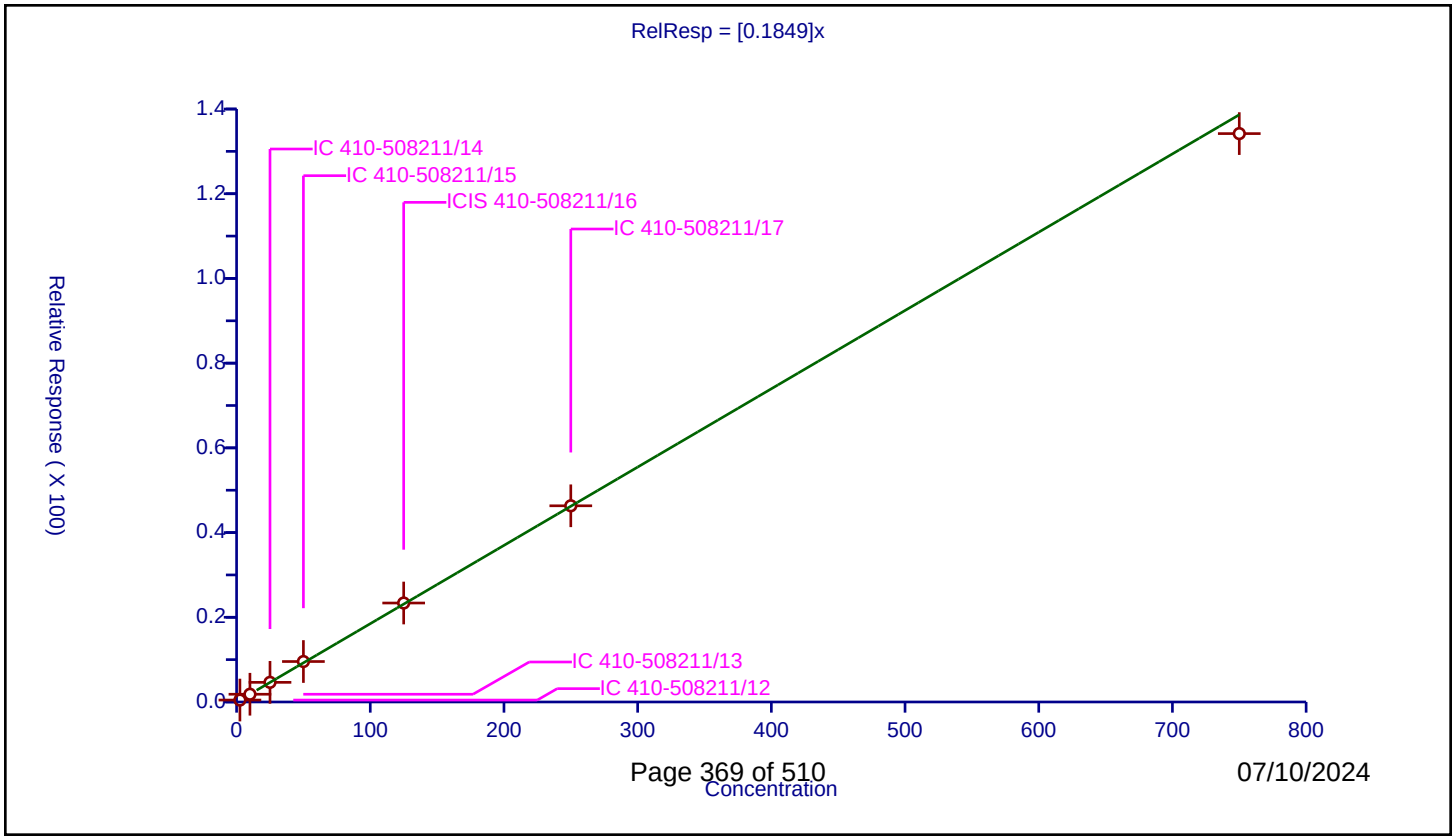
Curve Coefficients

Intercept:	0
Slope:	0.1849

Error Coefficients

Relative Standard Deviation:	2.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	2.5	0.458325	50.0	1258715.0	0.18333	Y
2	IC 410-508211/13	10.0	1.829343	50.0	1278820.0	0.182934	Y
3	IC 410-508211/14	25.0	4.639978	50.0	1290685.0	0.185599	Y
4	IC 410-508211/15	50.0	9.551936	50.0	1244219.0	0.191039	Y
5	ICIS 410-508211/16	125.0	23.364954	50.0	1258986.0	0.18692	Y
6	IC 410-508211/17	250.0	46.322793	50.0	1251670.0	0.185291	Y
7	IC 410-508211/18	750.0	134.196422	50.0	1300987.0	0.178929	Y



Calibration / Chlorobromomethane

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

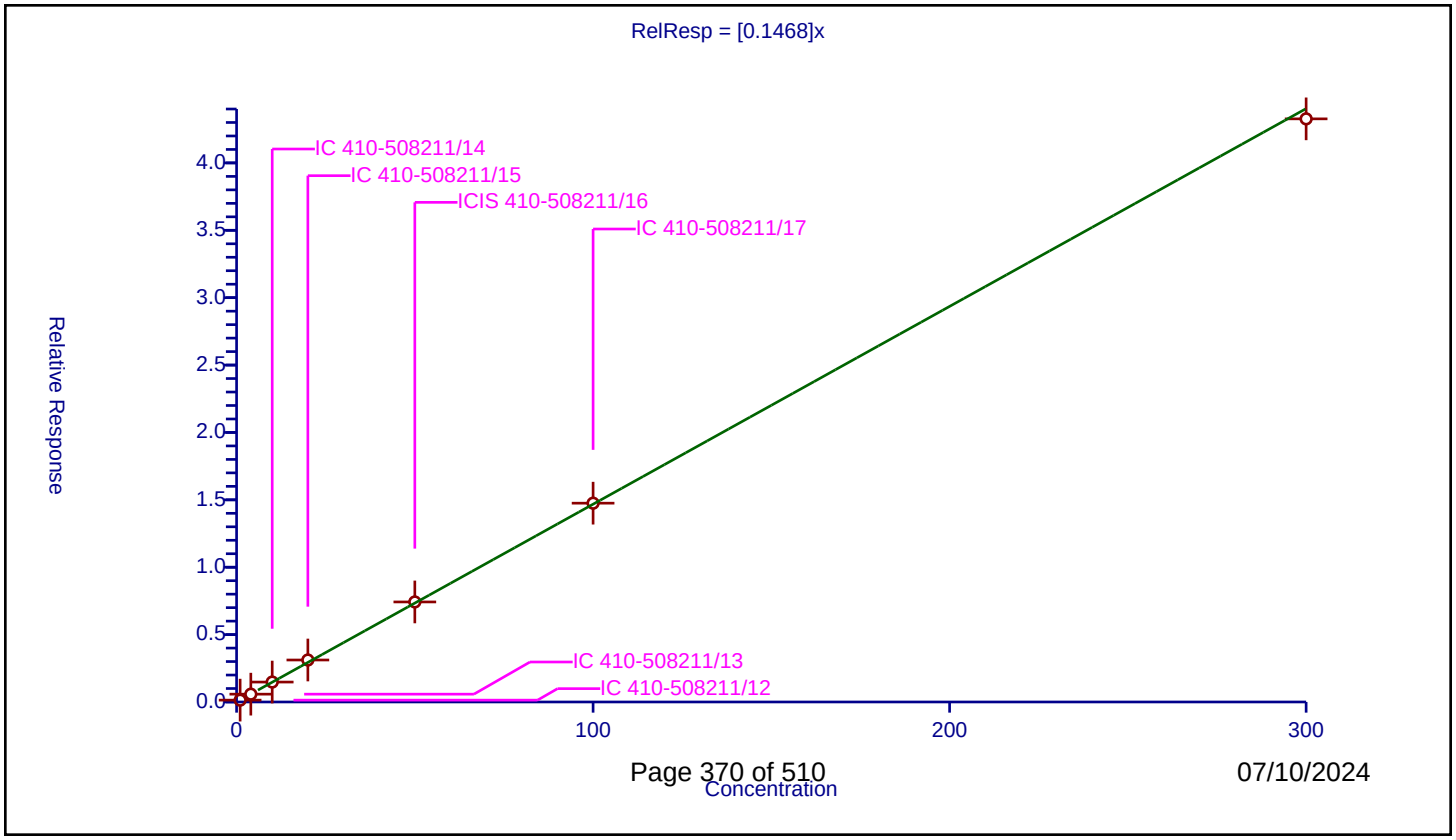
Curve Coefficients

Intercept:	0
Slope:	0.1468

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.138435	50.0	1258715.0	0.138435	Y
2	IC 410-508211/13	4.0	0.579949	50.0	1278820.0	0.144987	Y
3	IC 410-508211/14	10.0	1.479215	50.0	1290685.0	0.147921	Y
4	IC 410-508211/15	20.0	3.116091	50.0	1244219.0	0.155805	Y
5	ICIS 410-508211/16	50.0	7.423752	50.0	1258986.0	0.148475	Y
6	IC 410-508211/17	100.0	14.751931	50.0	1251670.0	0.147519	Y
7	IC 410-508211/18	300.0	43.269033	50.0	1300987.0	0.14423	Y



Calibration / Tetrahydrofuran

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

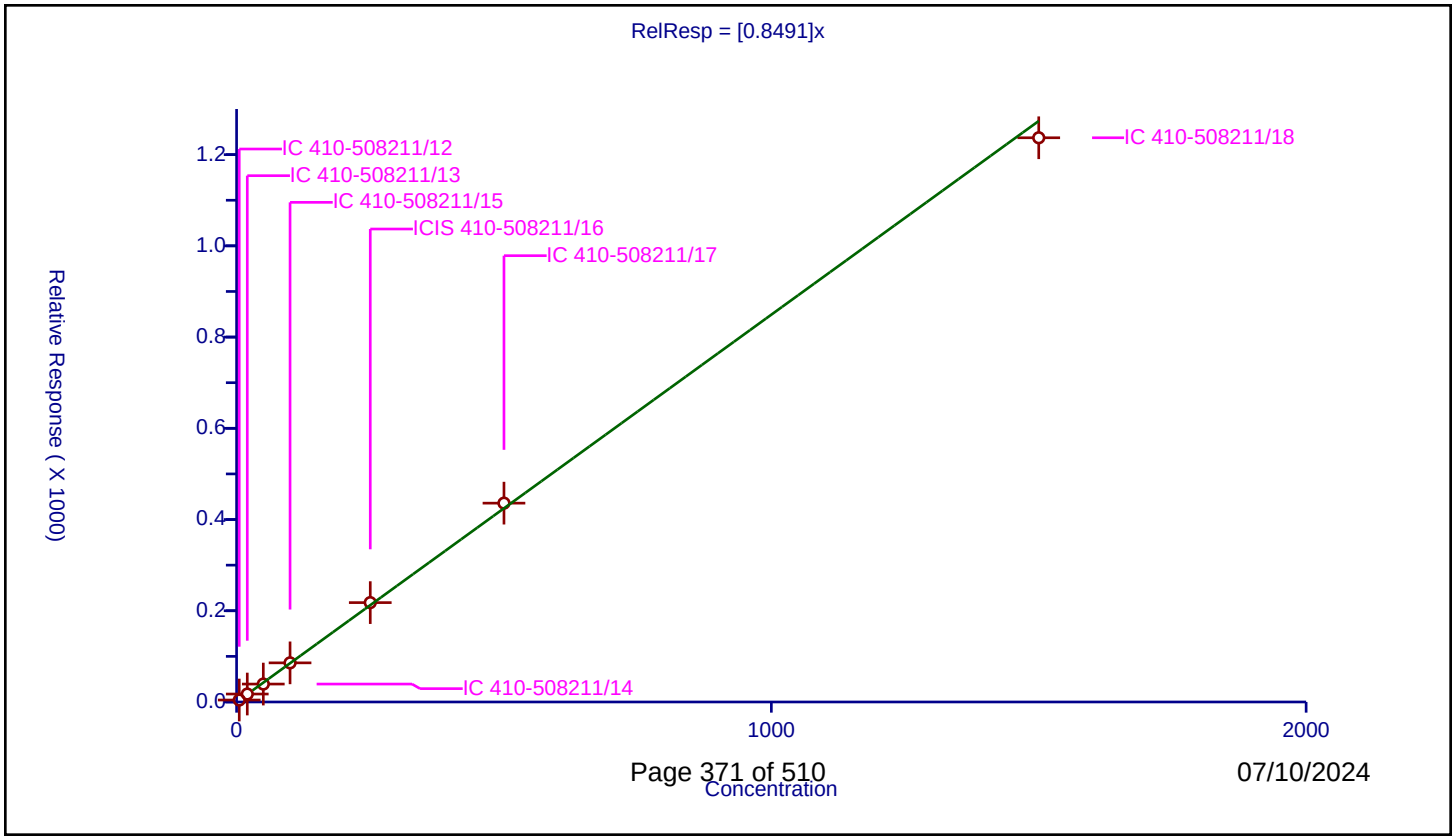
Curve Coefficients

Intercept:	0
Slope:	0.8491

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	5.0	4.29542	250.0	610243.0	0.859084	Y
2	IC 410-508211/13	20.0	17.449204	250.0	566874.0	0.87246	Y
3	IC 410-508211/14	50.0	39.335025	250.0	617662.0	0.7867	Y
4	IC 410-508211/15	100.0	85.771965	250.0	573614.0	0.85772	Y
5	ICIS 410-508211/16	250.0	217.887174	250.0	572863.0	0.871549	Y
6	IC 410-508211/17	500.0	435.902307	250.0	559244.0	0.871805	Y
7	IC 410-508211/18	1500.0	1236.975425	250.0	589501.0	0.82465	Y



Calibration / Chloroform

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

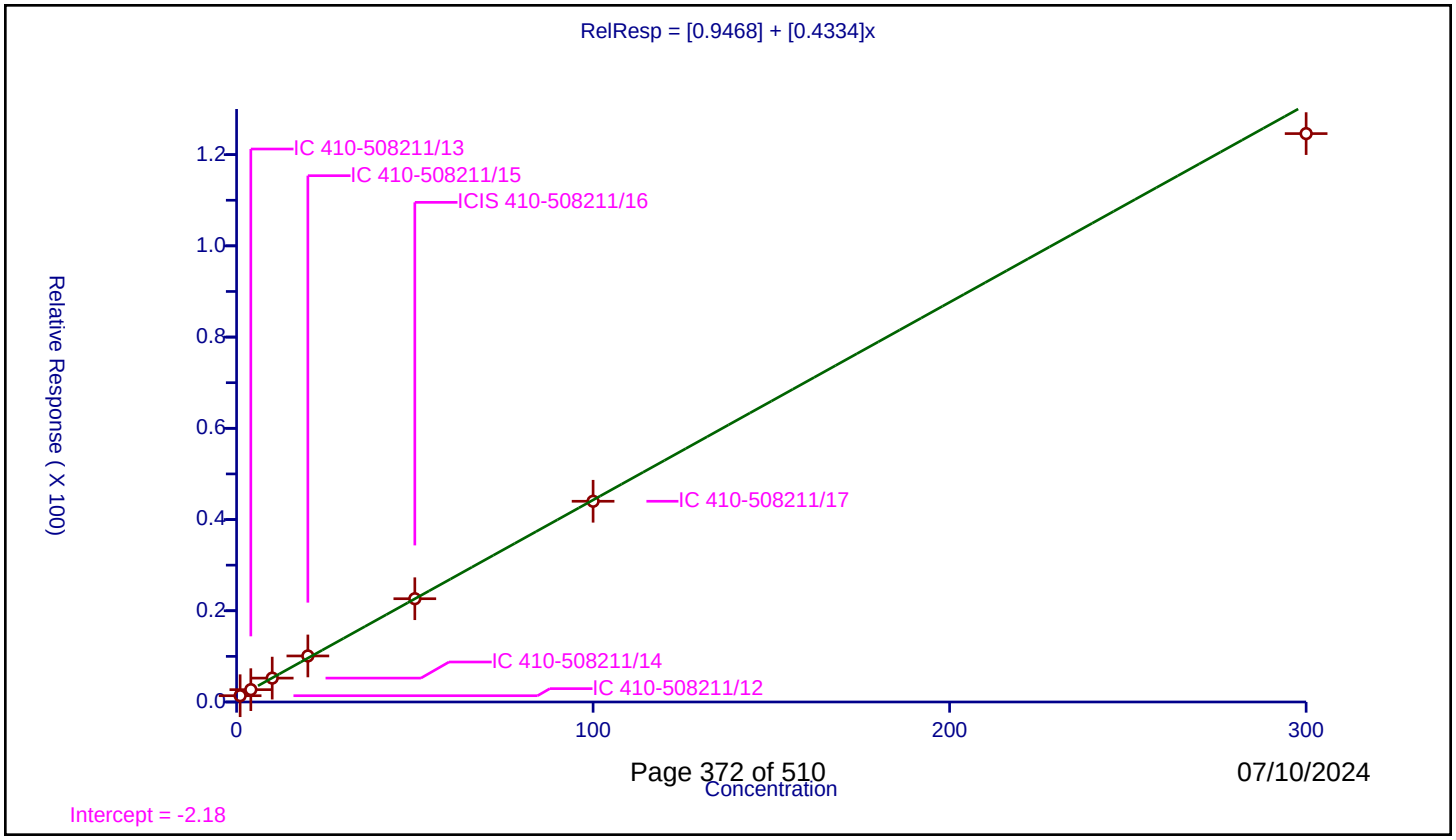
Curve Coefficients

Intercept:	0.9468
Slope:	0.4334

Error Coefficients

Relative Standard Deviation:	3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	1.377993	50.0	1258715.0	1.377993	Y
2	IC 410-508211/13	4.0	2.704368	50.0	1278820.0	0.676092	Y
3	IC 410-508211/14	10.0	5.237142	50.0	1290685.0	0.523714	Y
4	IC 410-508211/15	20.0	10.095329	50.0	1244219.0	0.504766	Y
5	ICIS 410-508211/16	50.0	22.6408	50.0	1258986.0	0.452816	Y
6	IC 410-508211/17	100.0	44.007047	50.0	1251670.0	0.44007	Y
7	IC 410-508211/18	300.0	124.610546	50.0	1300987.0	0.415368	Y



Calibration / Dibromofluoromethane (Surr)

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

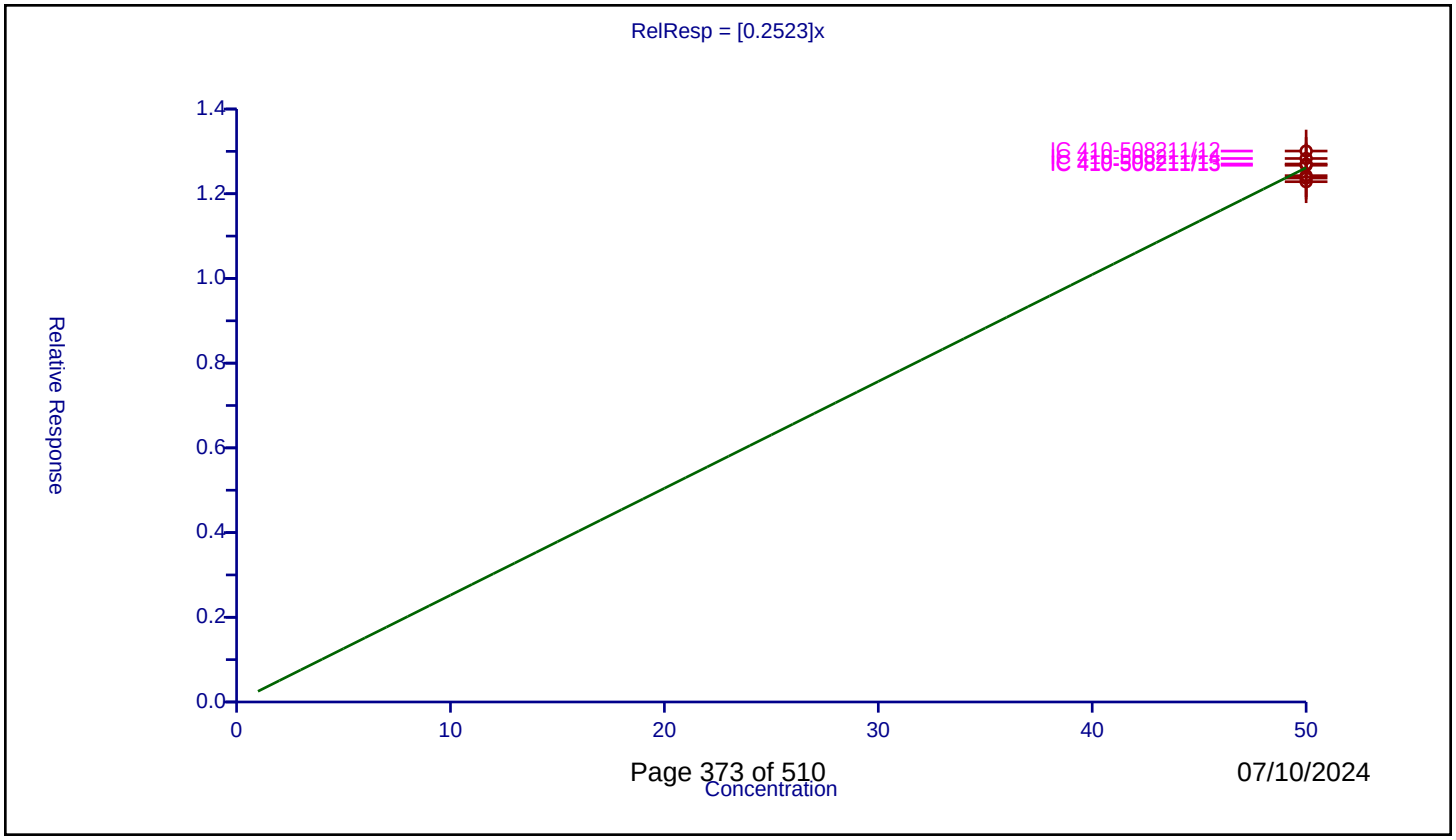
Curve Coefficients

Intercept:	0
Slope:	0.2523

Error Coefficients

Relative Standard Deviation:	2.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	50.0	13.007512	50.0	1258715.0	0.26015	Y
2	IC 410-508211/13	50.0	12.671994	50.0	1278820.0	0.25344	Y
3	IC 410-508211/14	50.0	12.832023	50.0	1290685.0	0.25664	Y
4	IC 410-508211/15	50.0	12.701944	50.0	1244219.0	0.254039	Y
5	ICIS 410-508211/16	50.0	12.426627	50.0	1258986.0	0.248533	Y
6	IC 410-508211/17	50.0	12.369315	50.0	1251670.0	0.247386	Y
7	IC 410-508211/18	50.0	12.283712	50.0	1300987.0	0.245674	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

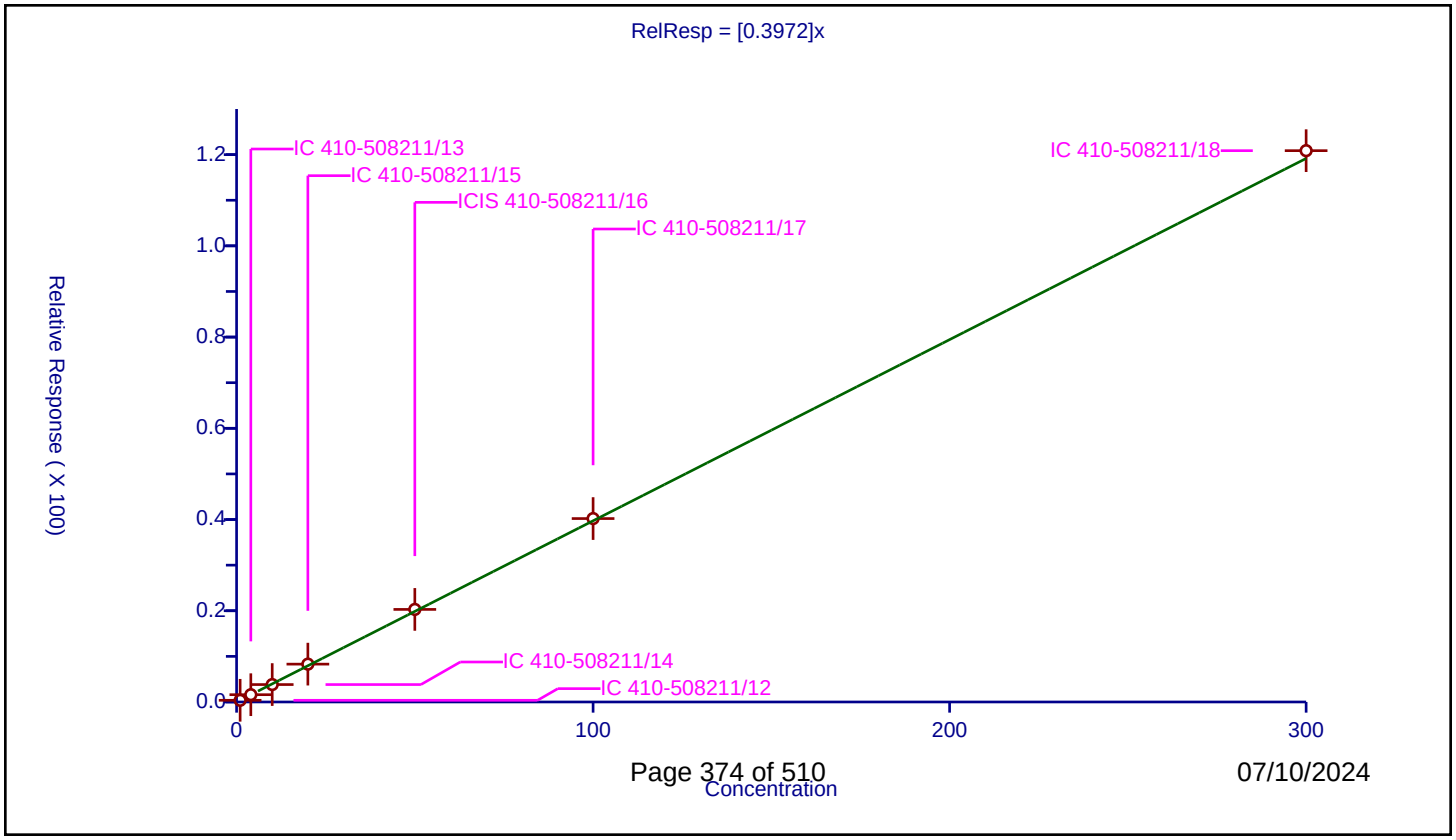
Curve Coefficients

Intercept:	0
Slope:	0.3972

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.373238	50.0	1258715.0	0.373238	Y
2	IC 410-508211/13	4.0	1.597801	50.0	1278820.0	0.39945	Y
3	IC 410-508211/14	10.0	3.817973	50.0	1290685.0	0.381797	Y
4	IC 410-508211/15	20.0	8.301352	50.0	1244219.0	0.415068	Y
5	ICIS 410-508211/16	50.0	20.293832	50.0	1258986.0	0.405877	Y
6	IC 410-508211/17	100.0	40.215872	50.0	1251670.0	0.402159	Y
7	IC 410-508211/18	300.0	120.865351	50.0	1300987.0	0.402885	Y



Calibration / Cyclohexane

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

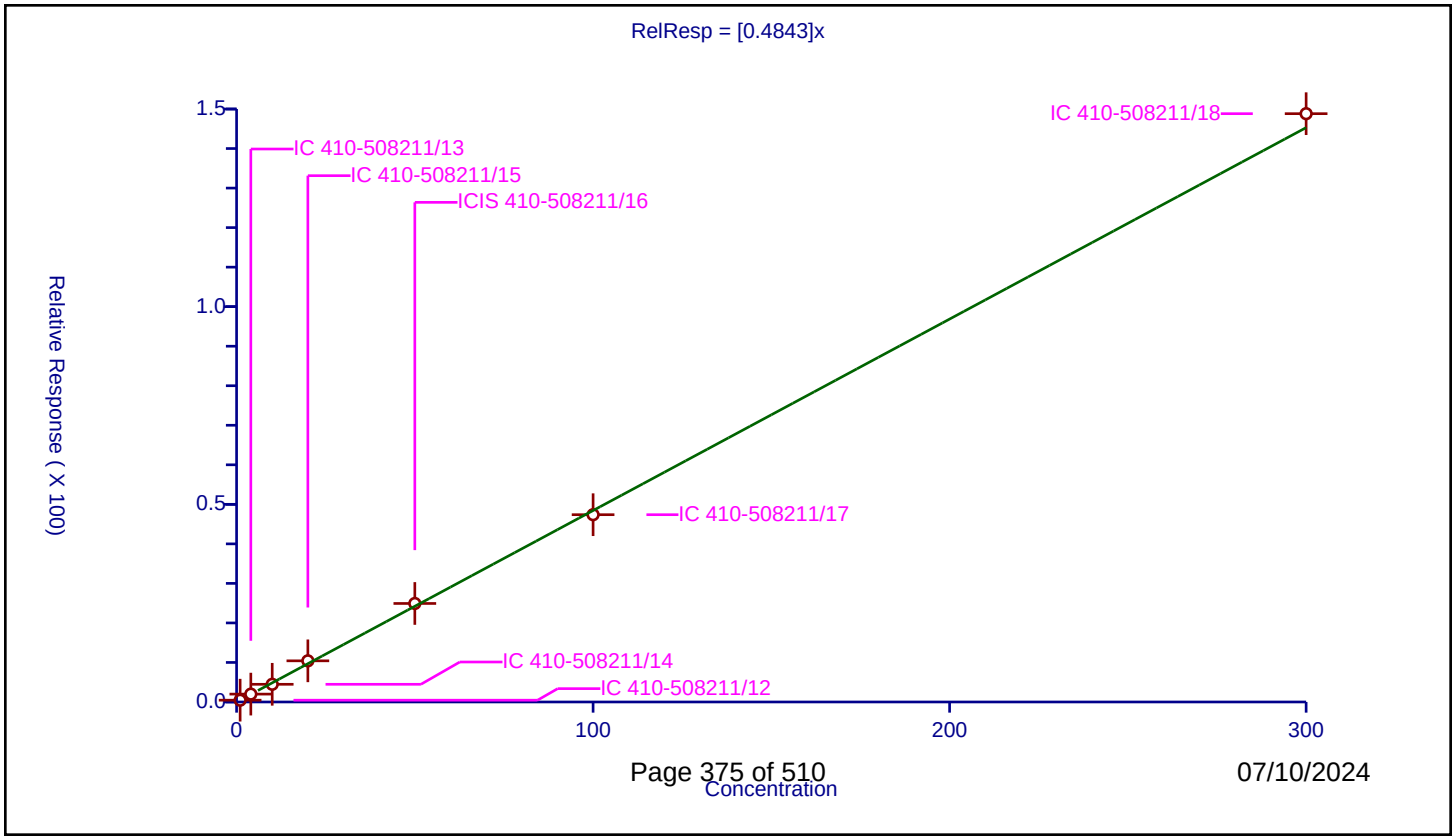
Curve Coefficients

Intercept:	0
Slope:	0.4843

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.45471	50.0	1258715.0	0.45471	Y
2	IC 410-508211/13	4.0	1.995355	50.0	1278820.0	0.498839	Y
3	IC 410-508211/14	10.0	4.477351	50.0	1290685.0	0.447735	Y
4	IC 410-508211/15	20.0	10.412315	50.0	1244219.0	0.520616	Y
5	ICIS 410-508211/16	50.0	24.919221	50.0	1258986.0	0.498384	Y
6	IC 410-508211/17	100.0	47.378982	50.0	1251670.0	0.47379	Y
7	IC 410-508211/18	300.0	148.819819	50.0	1300987.0	0.496066	Y



Calibration / Carbon tetrachloride

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

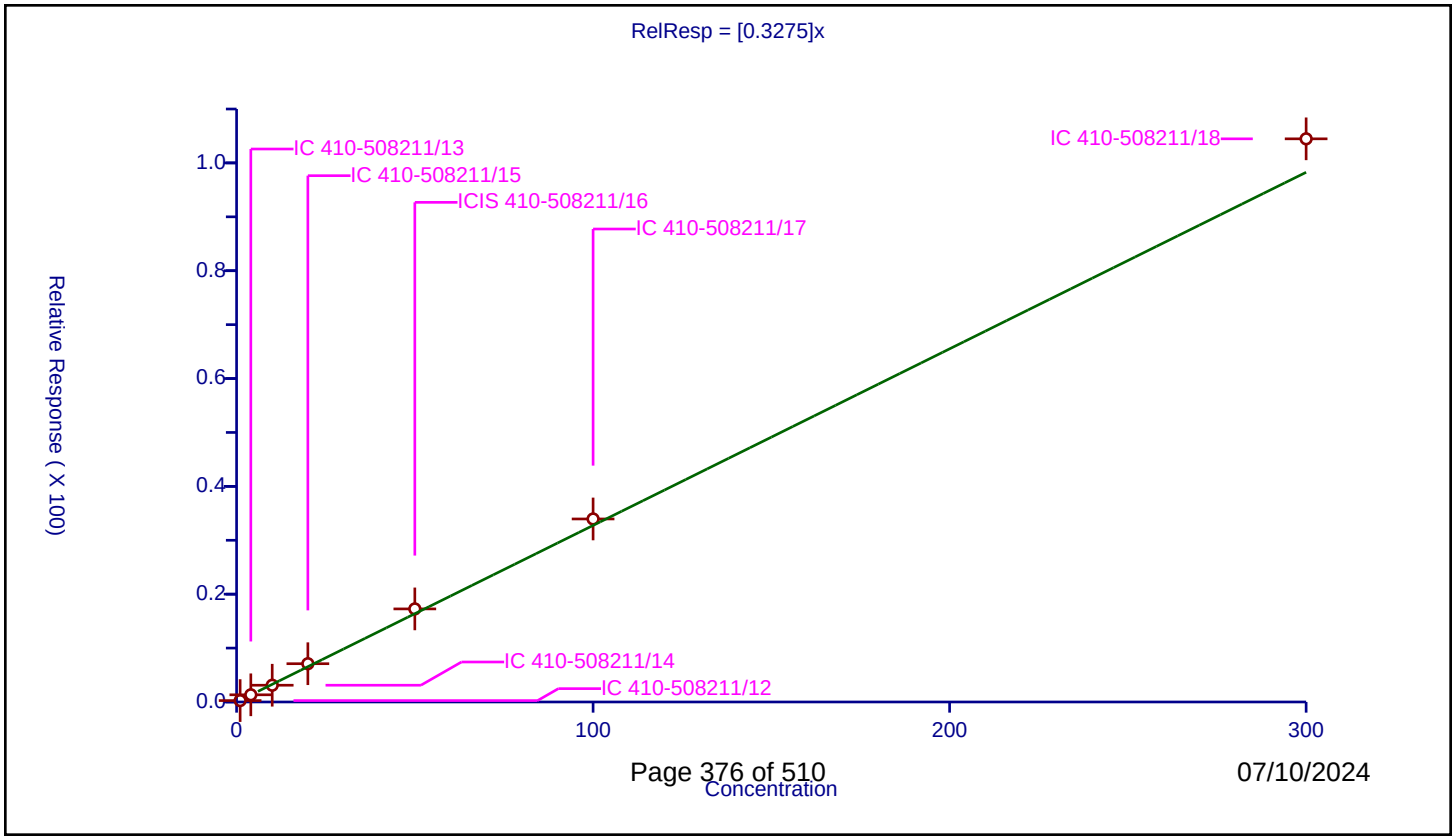
Curve Coefficients

Intercept:	0
Slope:	0.3275

Error Coefficients

Relative Standard Deviation:	10.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.260146	50.0	1258715.0	0.260146	Y
2	IC 410-508211/13	4.0	1.335372	50.0	1278820.0	0.333843	Y
3	IC 410-508211/14	10.0	3.107885	50.0	1290685.0	0.310788	Y
4	IC 410-508211/15	20.0	7.099233	50.0	1244219.0	0.354962	Y
5	ICIS 410-508211/16	50.0	17.265958	50.0	1258986.0	0.345319	Y
6	IC 410-508211/17	100.0	33.952479	50.0	1251670.0	0.339525	Y
7	IC 410-508211/18	300.0	104.469683	50.0	1300987.0	0.348232	Y



Calibration / 1,1-Dichloropropene

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

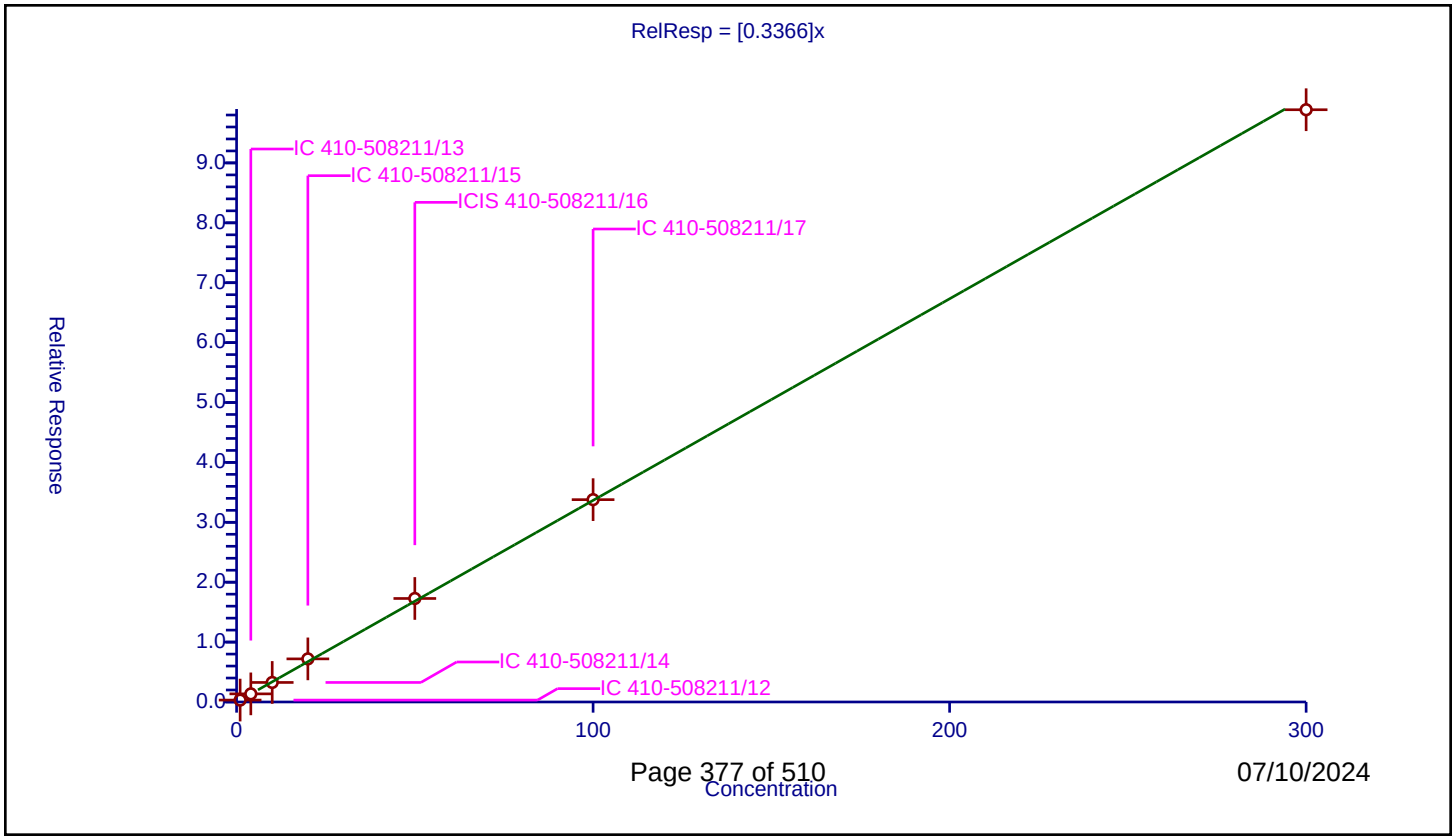
Curve Coefficients

Intercept:	0
Slope:	0.3366

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.318579	50.0	1258715.0	0.318579	Y
2	IC 410-508211/13	4.0	1.35496	50.0	1278820.0	0.33874	Y
3	IC 410-508211/14	10.0	3.259858	50.0	1290685.0	0.325986	Y
4	IC 410-508211/15	20.0	7.194875	50.0	1244219.0	0.359744	Y
5	ICIS 410-508211/16	50.0	17.279064	50.0	1258986.0	0.345581	Y
6	IC 410-508211/17	100.0	33.780709	50.0	1251670.0	0.337807	Y
7	IC 410-508211/18	300.0	98.882003	50.0	1300987.0	0.329607	Y



Calibration / Isobutyl alcohol

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

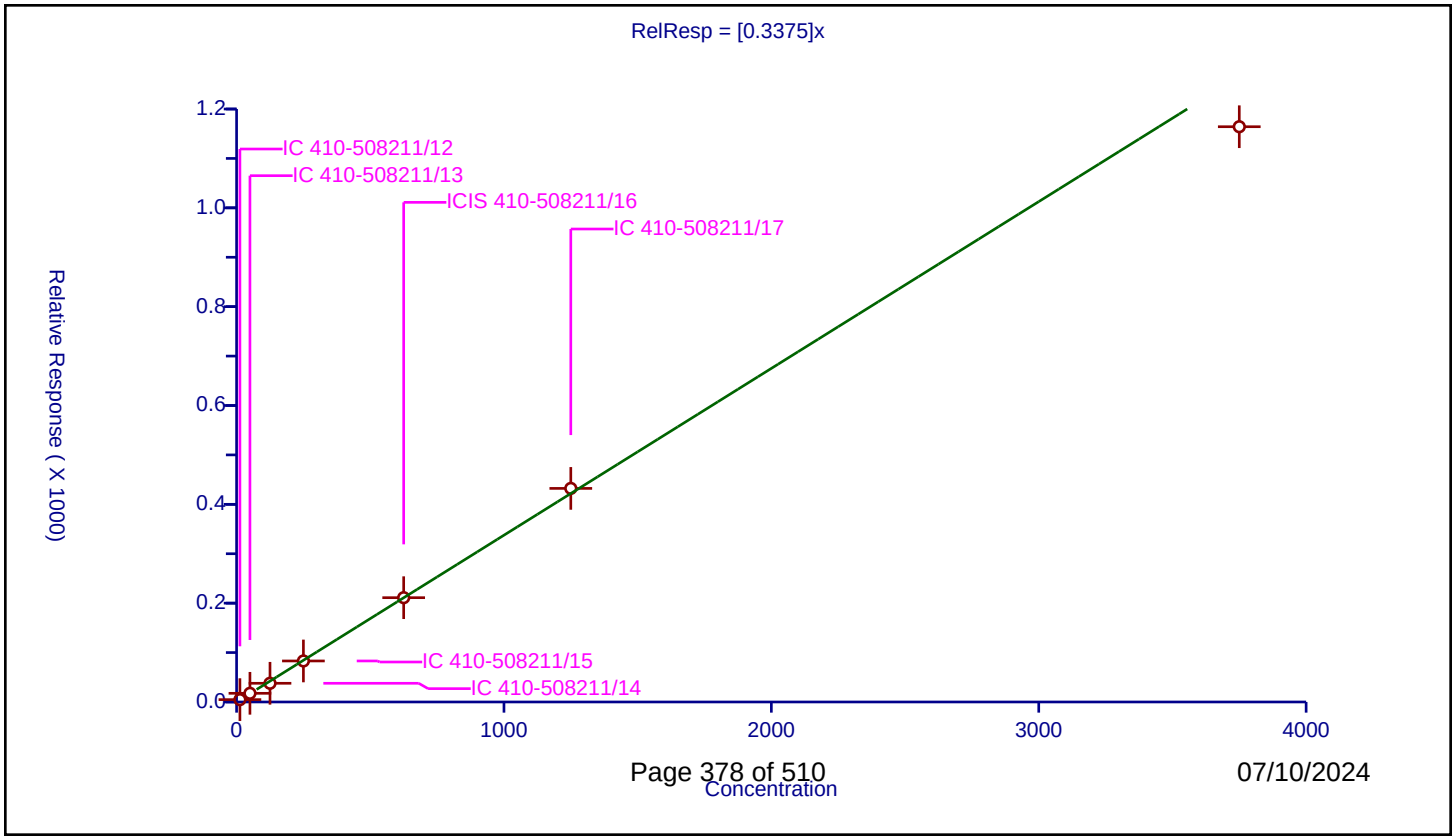
Curve Coefficients

Intercept:	0
Slope:	0.3375

Error Coefficients

Relative Standard Deviation:	7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	12.5	4.777605	250.0	610243.0	0.382208	Y
2	IC 410-508211/13	50.0	17.571365	250.0	566874.0	0.351427	Y
3	IC 410-508211/14	125.0	37.871846	250.0	617662.0	0.302975	Y
4	IC 410-508211/15	250.0	83.01009	250.0	573614.0	0.33204	Y
5	ICIS 410-508211/16	625.0	211.098901	250.0	572863.0	0.337758	Y
6	IC 410-508211/17	1250.0	432.236644	250.0	559244.0	0.345789	Y
7	IC 410-508211/18	3750.0	1164.181655	250.0	589501.0	0.310448	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

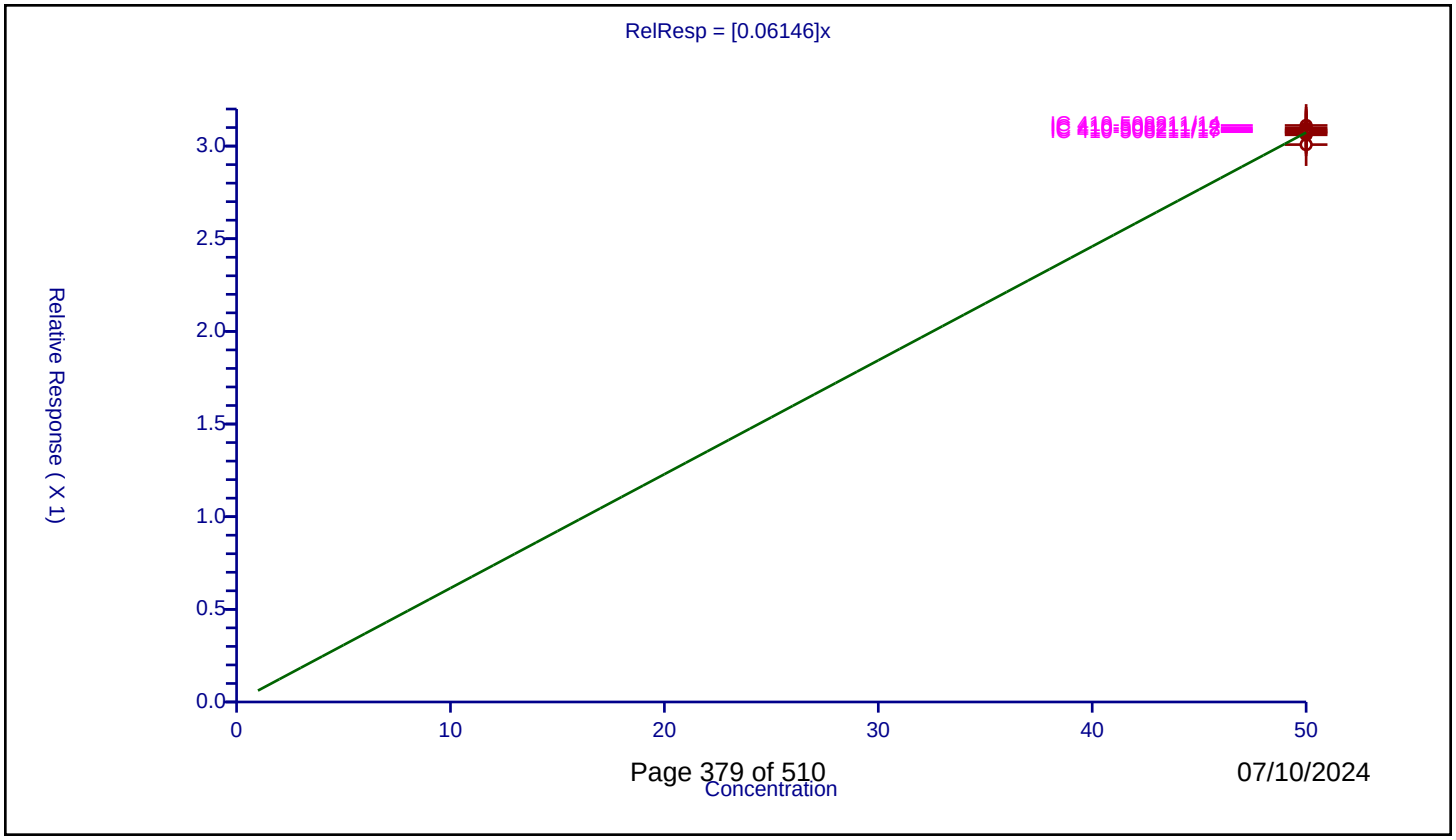
Curve Coefficients

Intercept:	0
Slope:	0.06146

Error Coefficients

Relative Standard Deviation:	1.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	50.0	3.095816	50.0	1258715.0	0.061916	Y
2	IC 410-508211/13	50.0	3.06079	50.0	1278820.0	0.061216	Y
3	IC 410-508211/14	50.0	3.111216	50.0	1290685.0	0.062224	Y
4	IC 410-508211/15	50.0	3.071445	50.0	1244219.0	0.061429	Y
5	ICIS 410-508211/16	50.0	3.007857	50.0	1258986.0	0.060157	Y
6	IC 410-508211/17	50.0	3.077608	50.0	1251670.0	0.061552	Y
7	IC 410-508211/18	50.0	3.086157	50.0	1300987.0	0.061723	Y



Calibration / Benzene

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

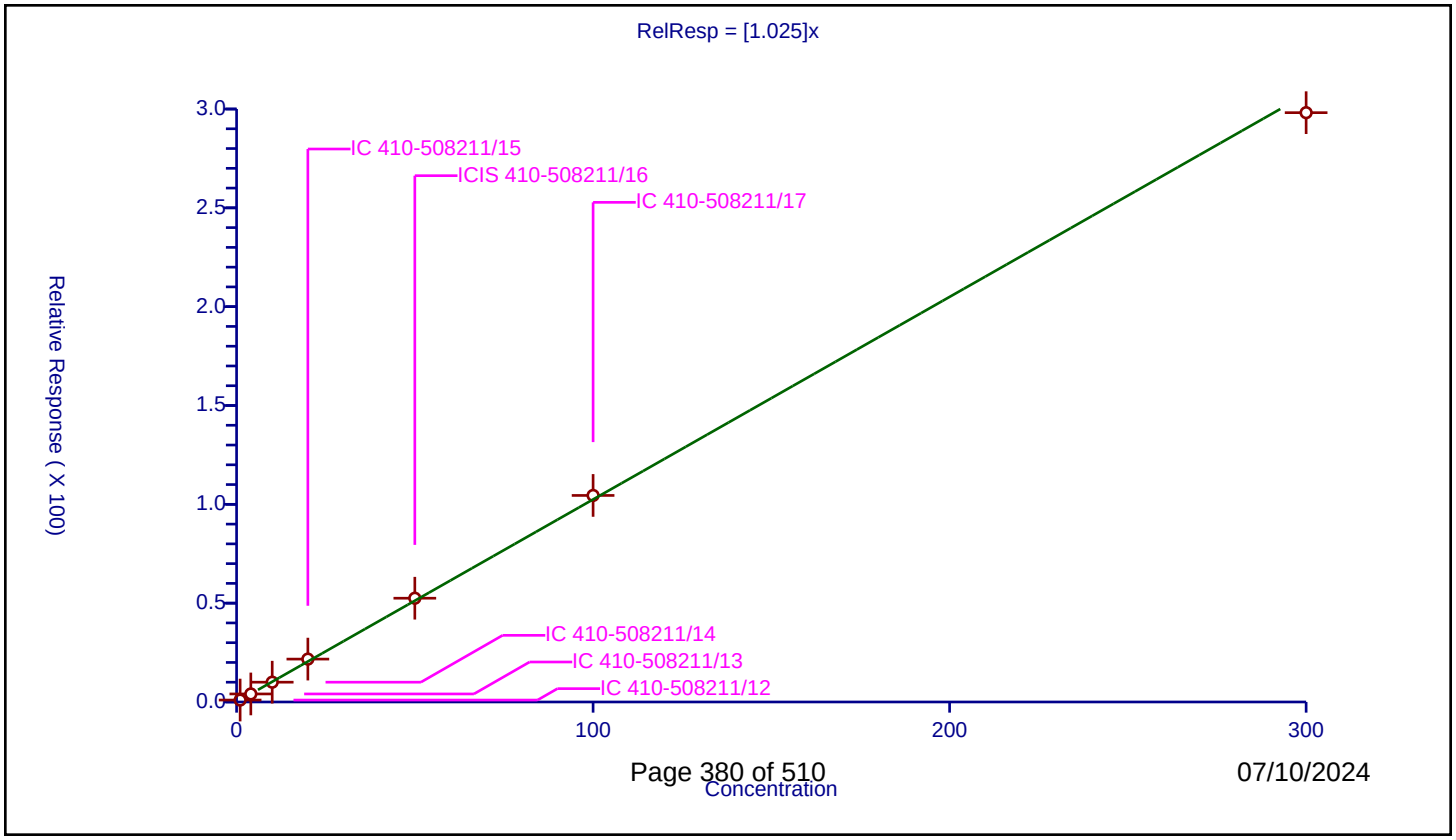
Curve Coefficients

Intercept:	0
Slope:	1.025

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.978577	50.0	1258715.0	0.978577	Y
2	IC 410-508211/13	4.0	4.073912	50.0	1278820.0	1.018478	Y
3	IC 410-508211/14	10.0	10.021035	50.0	1290685.0	1.002104	Y
4	IC 410-508211/15	20.0	21.706589	50.0	1244219.0	1.085329	Y
5	ICIS 410-508211/16	50.0	52.496096	50.0	1258986.0	1.049922	Y
6	IC 410-508211/17	100.0	104.499908	50.0	1251670.0	1.044999	Y
7	IC 410-508211/18	300.0	298.148675	50.0	1300987.0	0.993829	Y



Calibration / 1,2-Dichloroethane

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

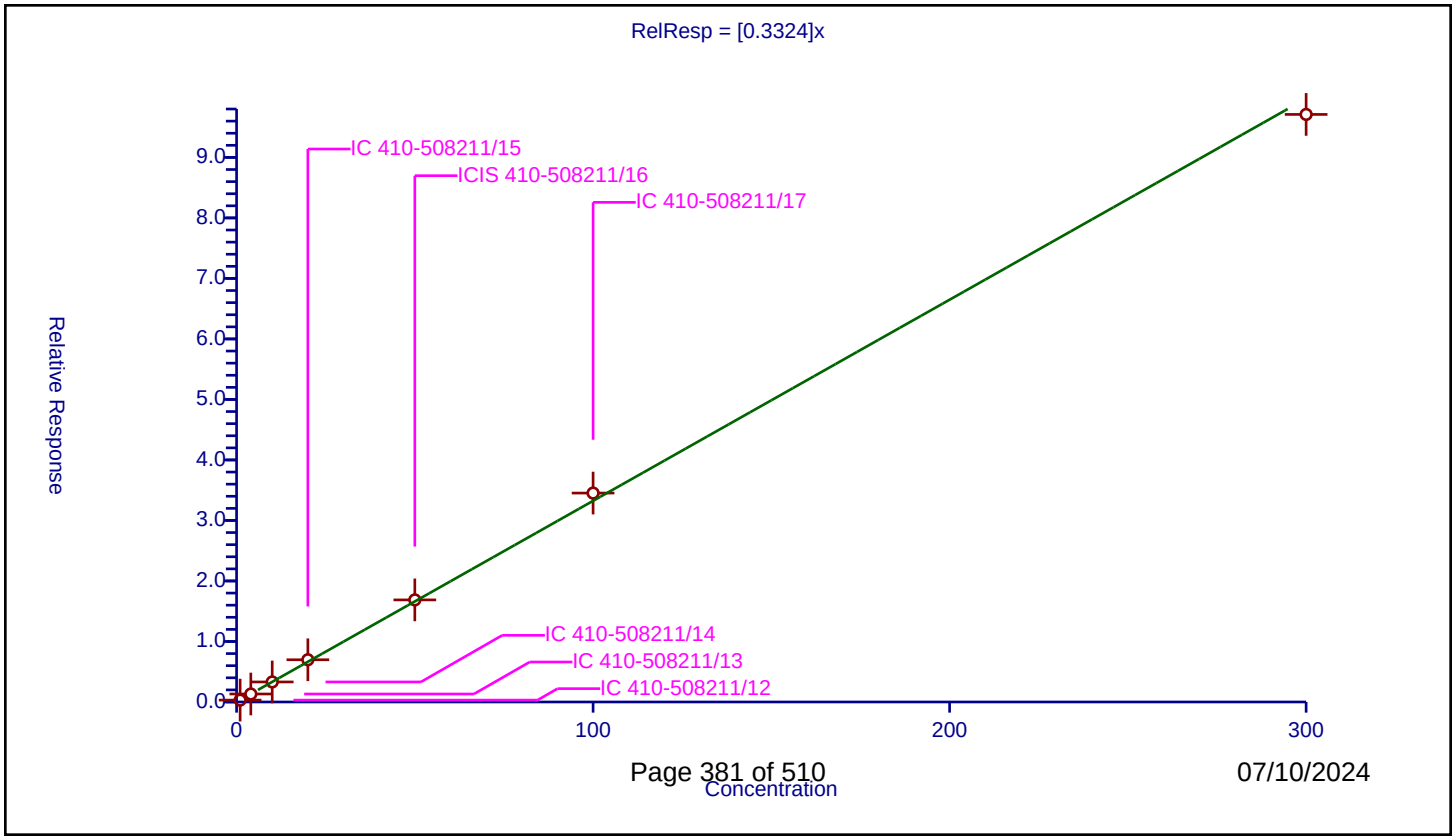
Curve Coefficients

Intercept:	0
Slope:	0.3324

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.310595	50.0	1258715.0	0.310595	Y
2	IC 410-508211/13	4.0	1.318012	50.0	1278820.0	0.329503	Y
3	IC 410-508211/14	10.0	3.313706	50.0	1290685.0	0.331371	Y
4	IC 410-508211/15	20.0	6.979559	50.0	1244219.0	0.348978	Y
5	ICIS 410-508211/16	50.0	16.874731	50.0	1258986.0	0.337495	Y
6	IC 410-508211/17	100.0	34.527671	50.0	1251670.0	0.345277	Y
7	IC 410-508211/18	300.0	97.103199	50.0	1300987.0	0.323677	Y



Calibration / Tert-amyl methyl ether

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

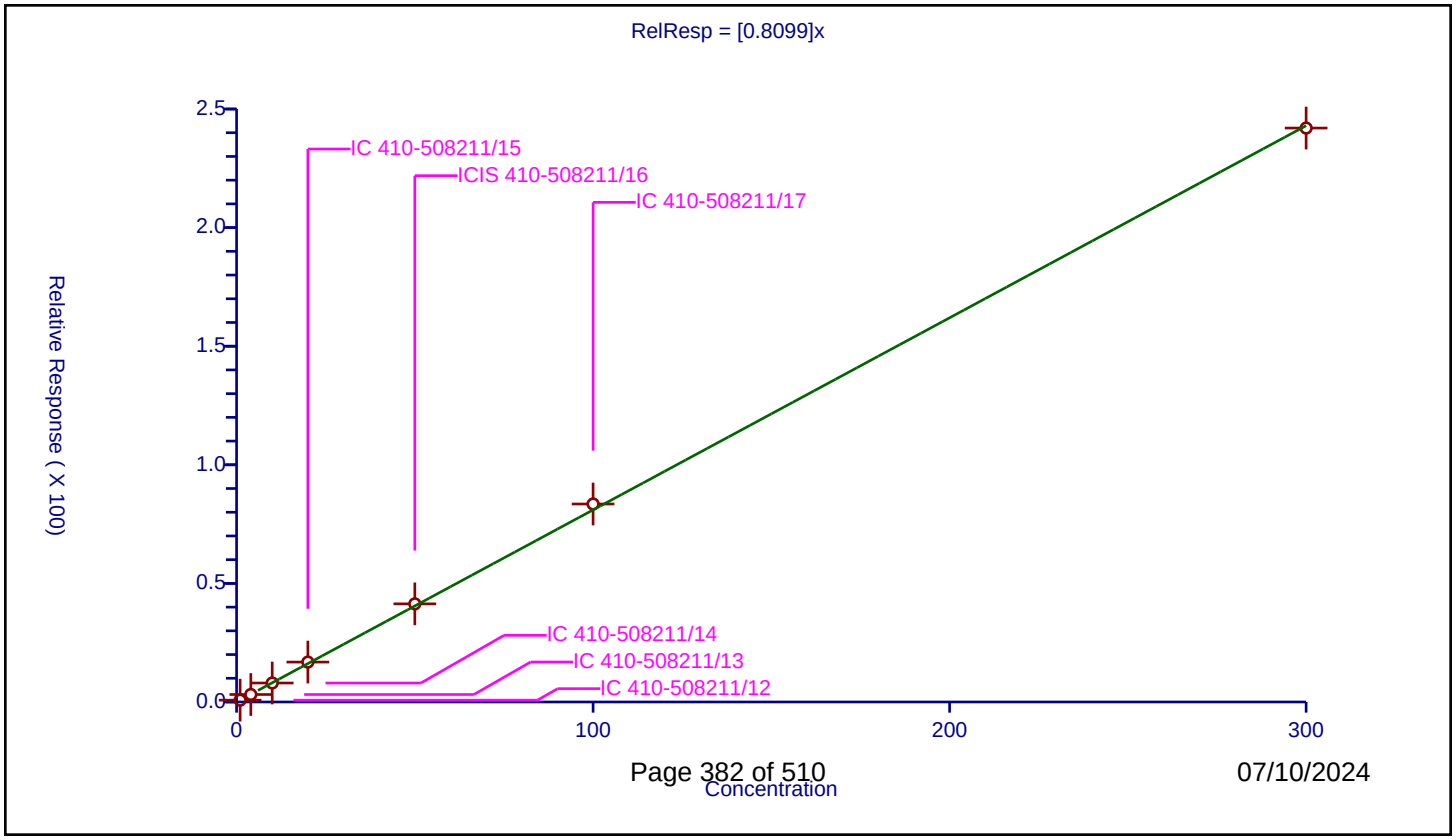
Curve Coefficients

Intercept:	0
Slope:	0.8099

Error Coefficients

Relative Standard Deviation:	3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.772296	50.0	1258715.0	0.772296	Y
2	IC 410-508211/13	4.0	3.148176	50.0	1278820.0	0.787044	Y
3	IC 410-508211/14	10.0	7.997459	50.0	1290685.0	0.799746	Y
4	IC 410-508211/15	20.0	16.822199	50.0	1244219.0	0.84111	Y
5	ICIS 410-508211/16	50.0	41.375996	50.0	1258986.0	0.82752	Y
6	IC 410-508211/17	100.0	83.471202	50.0	1251670.0	0.834712	Y
7	IC 410-508211/18	300.0	241.973363	50.0	1300987.0	0.806578	Y



Calibration / n-Heptane

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

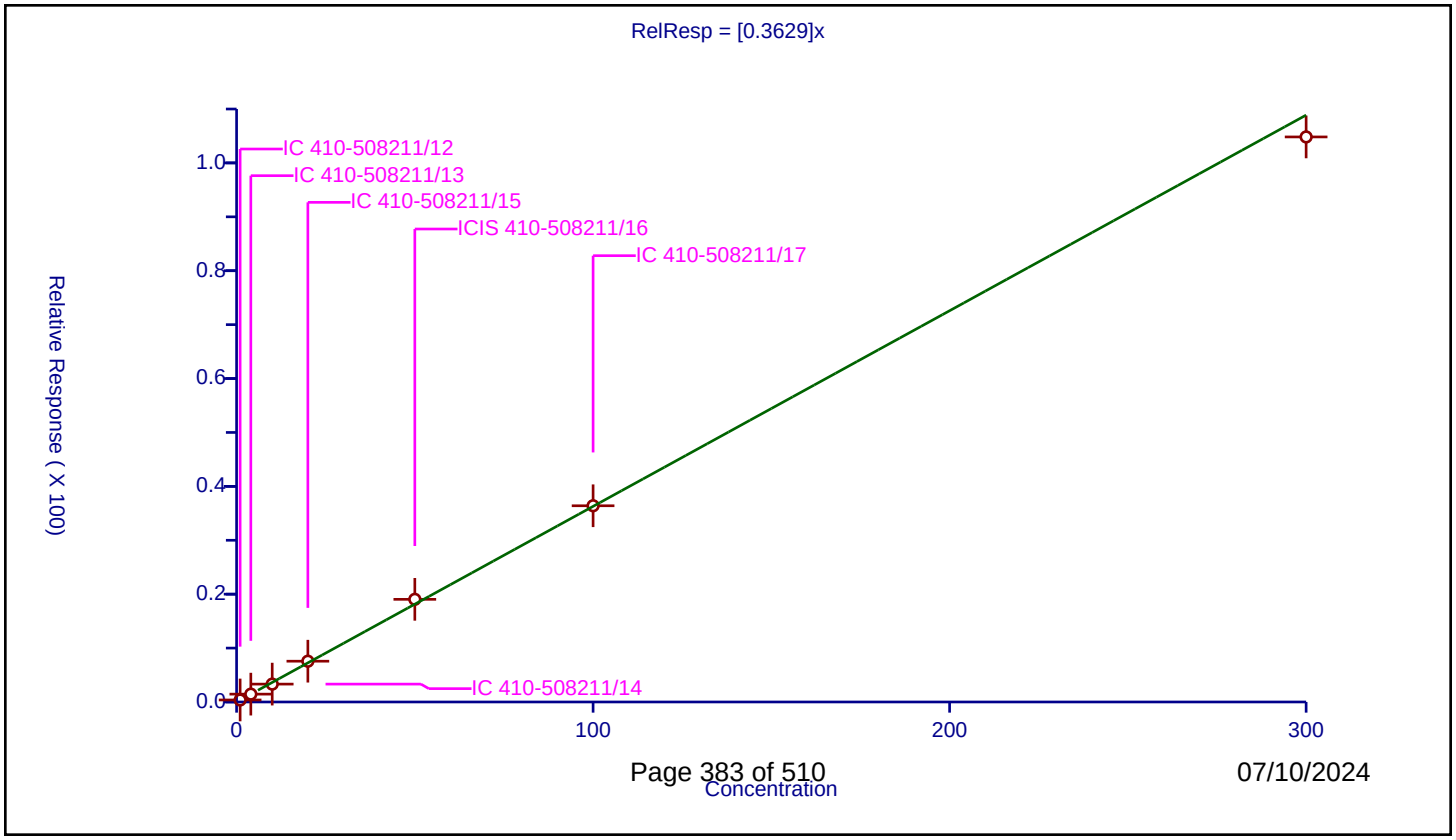
Curve Coefficients

Intercept:	0
Slope:	0.3629

Error Coefficients

Relative Standard Deviation:	4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.371768	50.0	1258715.0	0.371768	Y
2	IC 410-508211/13	4.0	1.45775	50.0	1278820.0	0.364438	Y
3	IC 410-508211/14	10.0	3.315139	50.0	1290685.0	0.331514	Y
4	IC 410-508211/15	20.0	7.5678	50.0	1244219.0	0.37839	Y
5	ICIS 410-508211/16	50.0	19.041832	50.0	1258986.0	0.380837	Y
6	IC 410-508211/17	100.0	36.401847	50.0	1251670.0	0.364018	Y
7	IC 410-508211/18	300.0	104.820648	50.0	1300987.0	0.349402	Y



07/10/2024

Calibration / n-Butanol

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

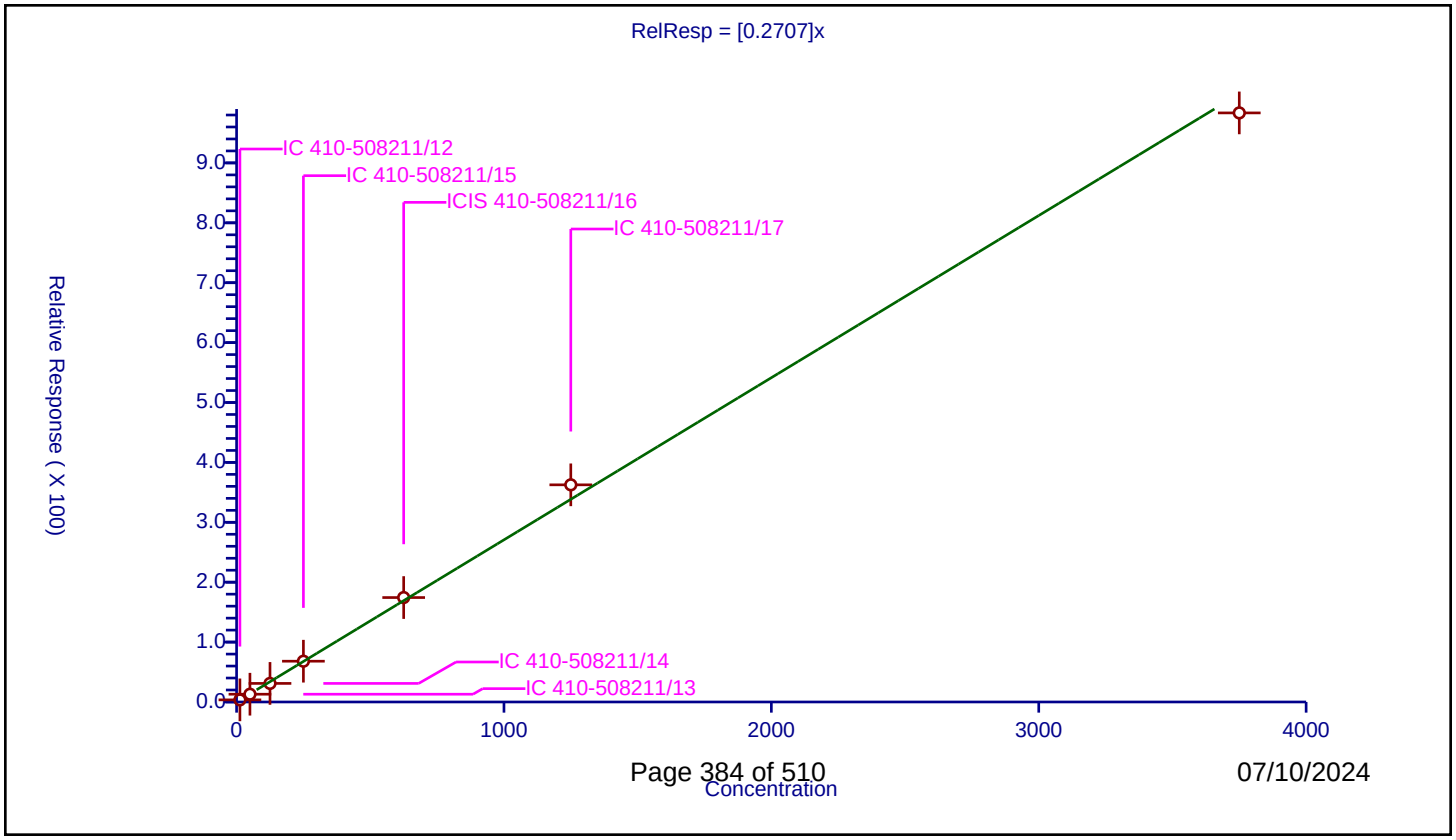
Curve Coefficients

Intercept:	0
Slope:	0.2707

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	12.5	3.549815	250.0	610243.0	0.283985	Y
2	IC 410-508211/13	50.0	12.968049	250.0	566874.0	0.259361	Y
3	IC 410-508211/14	125.0	30.998345	250.0	617662.0	0.247987	Y
4	IC 410-508211/15	250.0	68.079754	250.0	573614.0	0.272319	Y
5	ICIS 410-508211/16	625.0	174.370225	250.0	572863.0	0.278992	Y
6	IC 410-508211/17	1250.0	362.550604	250.0	559244.0	0.29004	Y
7	IC 410-508211/18	3750.0	983.51996	250.0	589501.0	0.262272	Y



Calibration / Trichloroethene

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

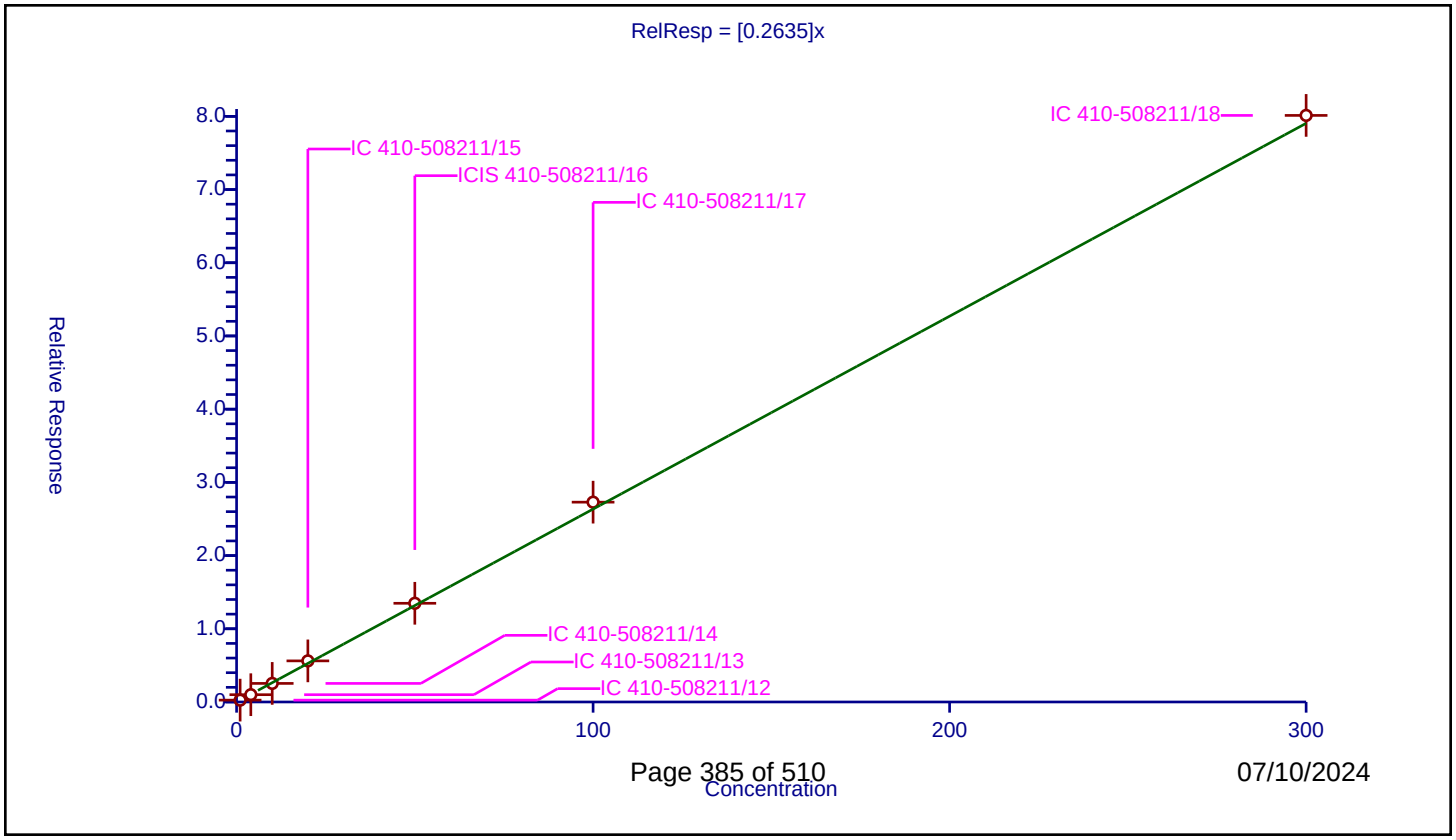
Curve Coefficients

Intercept:	0
Slope:	0.2635

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.251447	50.0	1258715.0	0.251447	Y
2	IC 410-508211/13	4.0	0.99498	50.0	1278820.0	0.248745	Y
3	IC 410-508211/14	10.0	2.537064	50.0	1290685.0	0.253706	Y
4	IC 410-508211/15	20.0	5.616334	50.0	1244219.0	0.280817	Y
5	ICIS 410-508211/16	50.0	13.483947	50.0	1258986.0	0.269679	Y
6	IC 410-508211/17	100.0	27.295533	50.0	1251670.0	0.272955	Y
7	IC 410-508211/18	300.0	80.127511	50.0	1300987.0	0.267092	Y



Calibration / Ethyl acrylate

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

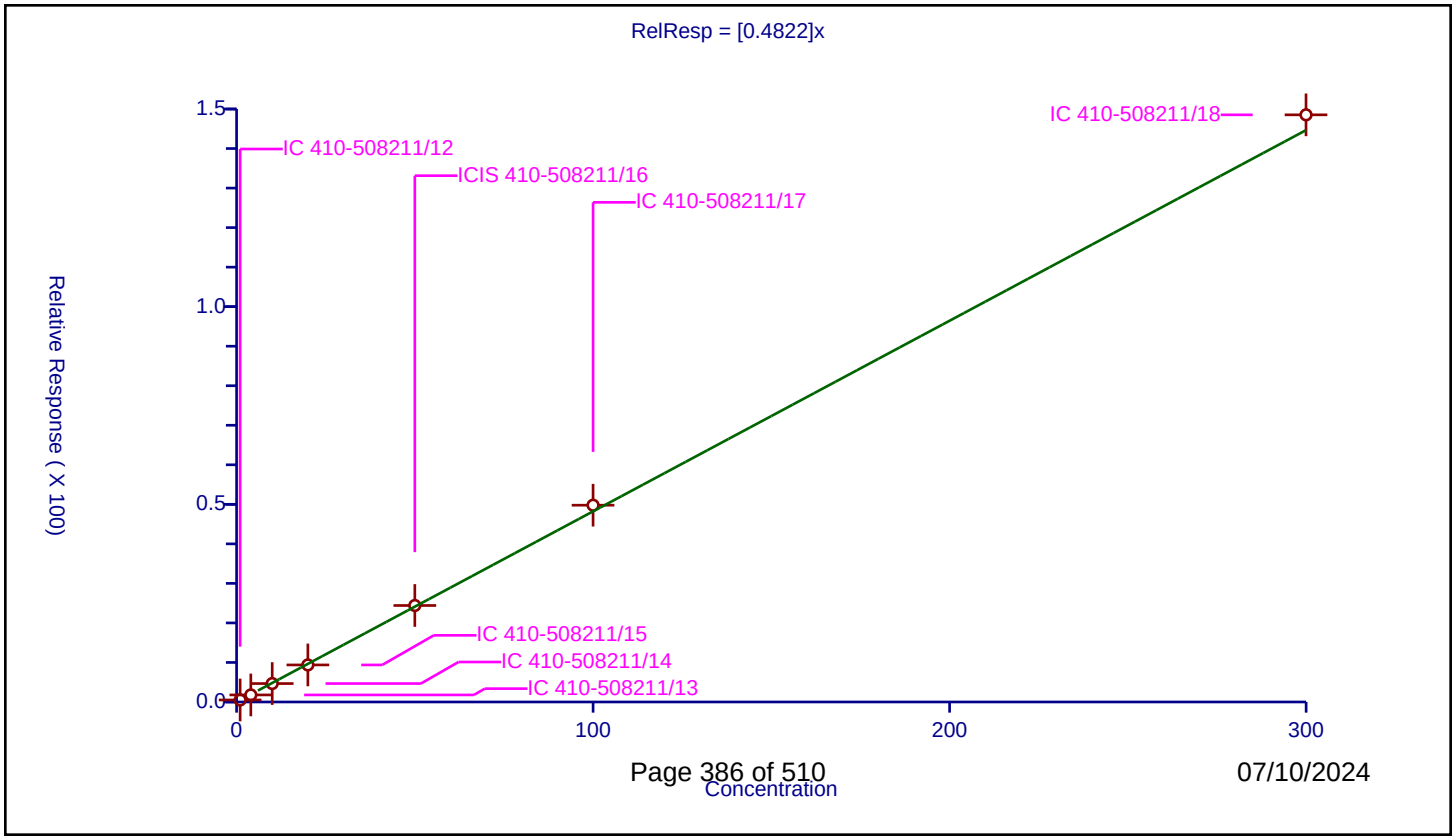
Curve Coefficients

Intercept:	0
Slope:	0.4822

Error Coefficients

Relative Standard Deviation:	4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	0.999919	0.512189	50.0	1258715.0	0.512231	Y
2	IC 410-508211/13	3.999676	1.786491	50.0	1278820.0	0.446659	Y
3	IC 410-508211/14	9.99919	4.665623	50.0	1290685.0	0.4666	Y
4	IC 410-508211/15	19.99838	9.375962	50.0	1244219.0	0.468836	Y
5	ICIS 410-508211/16	49.99595	24.408492	50.0	1258986.0	0.488209	Y
6	IC 410-508211/17	99.9919	49.780054	50.0	1251670.0	0.497841	Y
7	IC 410-508211/18	299.9757	148.52854	50.0	1300987.0	0.495135	Y



Calibration / Methylcyclohexane

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

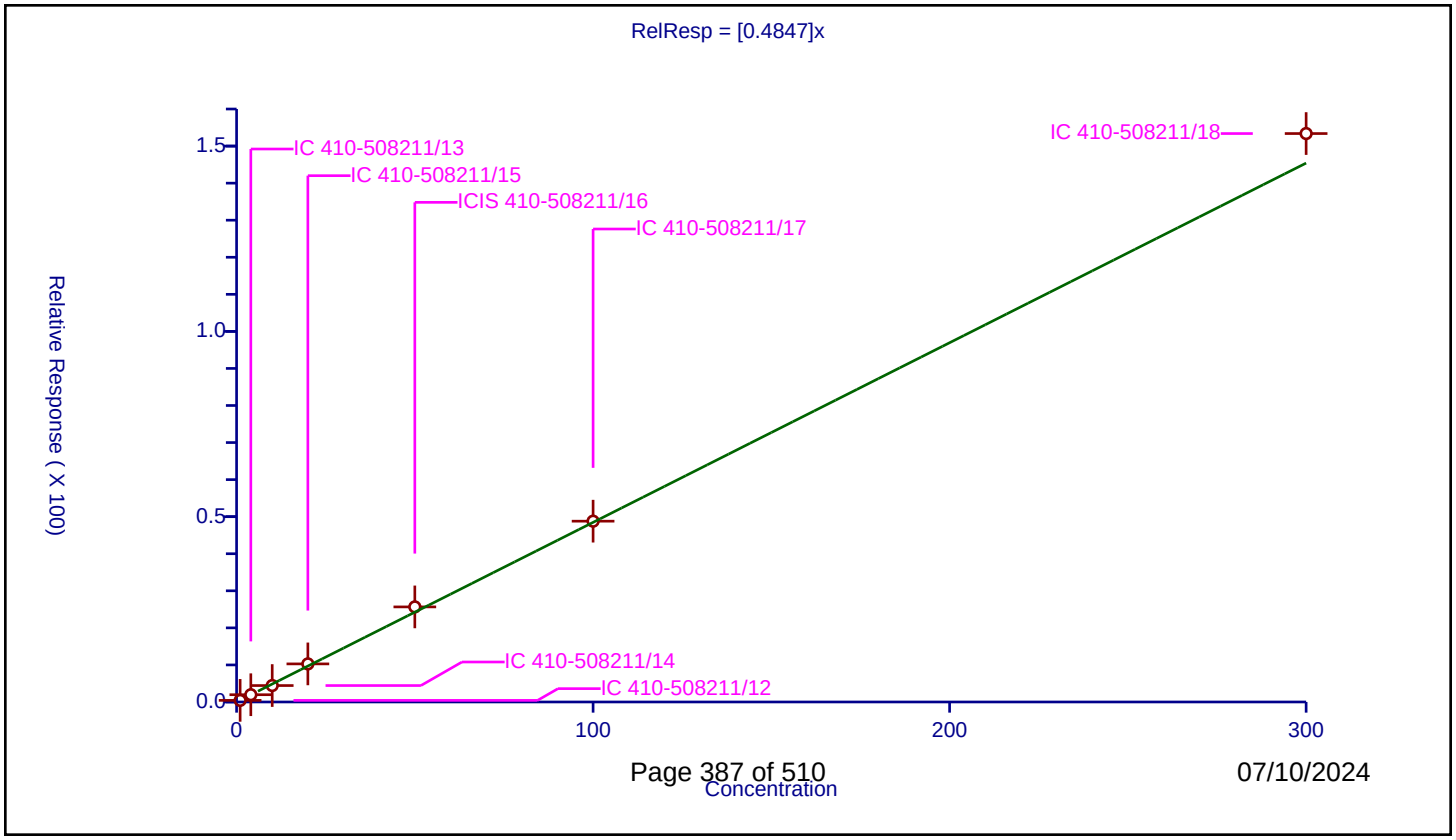
Curve Coefficients

Intercept:	0
Slope:	0.4847

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.432703	50.0	1258715.0	0.432703	Y
2	IC 410-508211/13	4.0	1.960245	50.0	1278820.0	0.490061	Y
3	IC 410-508211/14	10.0	4.438457	50.0	1290685.0	0.443846	Y
4	IC 410-508211/15	20.0	10.280425	50.0	1244219.0	0.514021	Y
5	ICIS 410-508211/16	50.0	25.653343	50.0	1258986.0	0.513067	Y
6	IC 410-508211/17	100.0	48.788658	50.0	1251670.0	0.487887	Y
7	IC 410-508211/18	300.0	153.378397	50.0	1300987.0	0.511261	Y



Calibration / 1,2-Dichloropropane

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

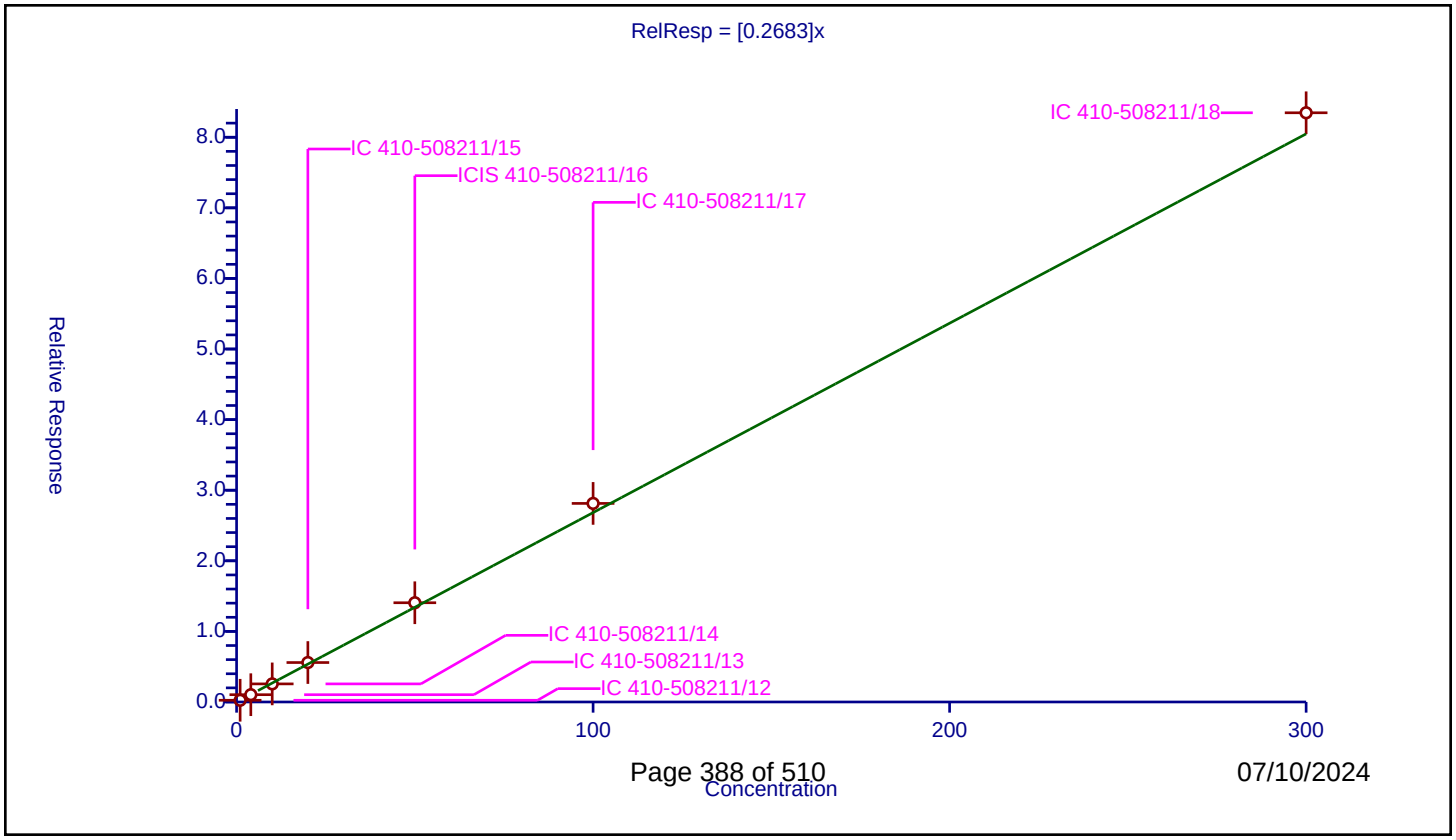
Curve Coefficients

Intercept:	0
Slope:	0.2683

Error Coefficients

Relative Standard Deviation:	5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.242827	50.0	1258715.0	0.242827	Y
2	IC 410-508211/13	4.0	1.034704	50.0	1278820.0	0.258676	Y
3	IC 410-508211/14	10.0	2.562399	50.0	1290685.0	0.25624	Y
4	IC 410-508211/15	20.0	5.588767	50.0	1244219.0	0.279438	Y
5	ICIS 410-508211/16	50.0	14.059291	50.0	1258986.0	0.281186	Y
6	IC 410-508211/17	100.0	28.129259	50.0	1251670.0	0.281293	Y
7	IC 410-508211/18	300.0	83.467014	50.0	1300987.0	0.278223	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

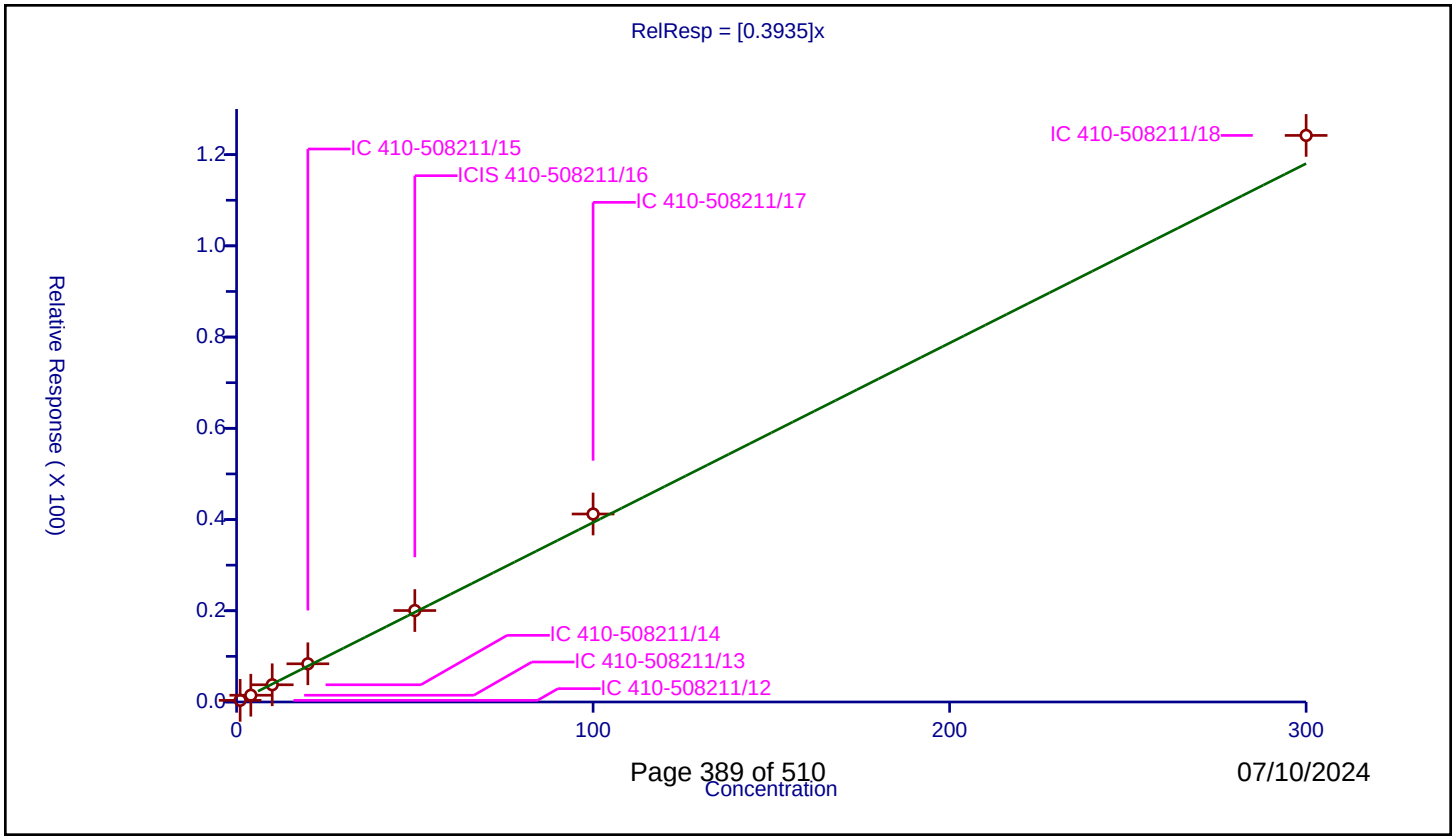
Curve Coefficients

Intercept:	0
Slope:	0.3935

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.360725	50.0	1258715.0	0.360725	Y
2	IC 410-508211/13	4.0	1.480114	50.0	1278820.0	0.370029	Y
3	IC 410-508211/14	10.0	3.776057	50.0	1290685.0	0.377606	Y
4	IC 410-508211/15	20.0	8.37441	50.0	1244219.0	0.41872	Y
5	ICIS 410-508211/16	50.0	20.051136	50.0	1258986.0	0.401023	Y
6	IC 410-508211/17	100.0	41.21266	50.0	1251670.0	0.412127	Y
7	IC 410-508211/18	300.0	124.210772	50.0	1300987.0	0.414036	Y



Calibration / 1,4-Dioxane

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

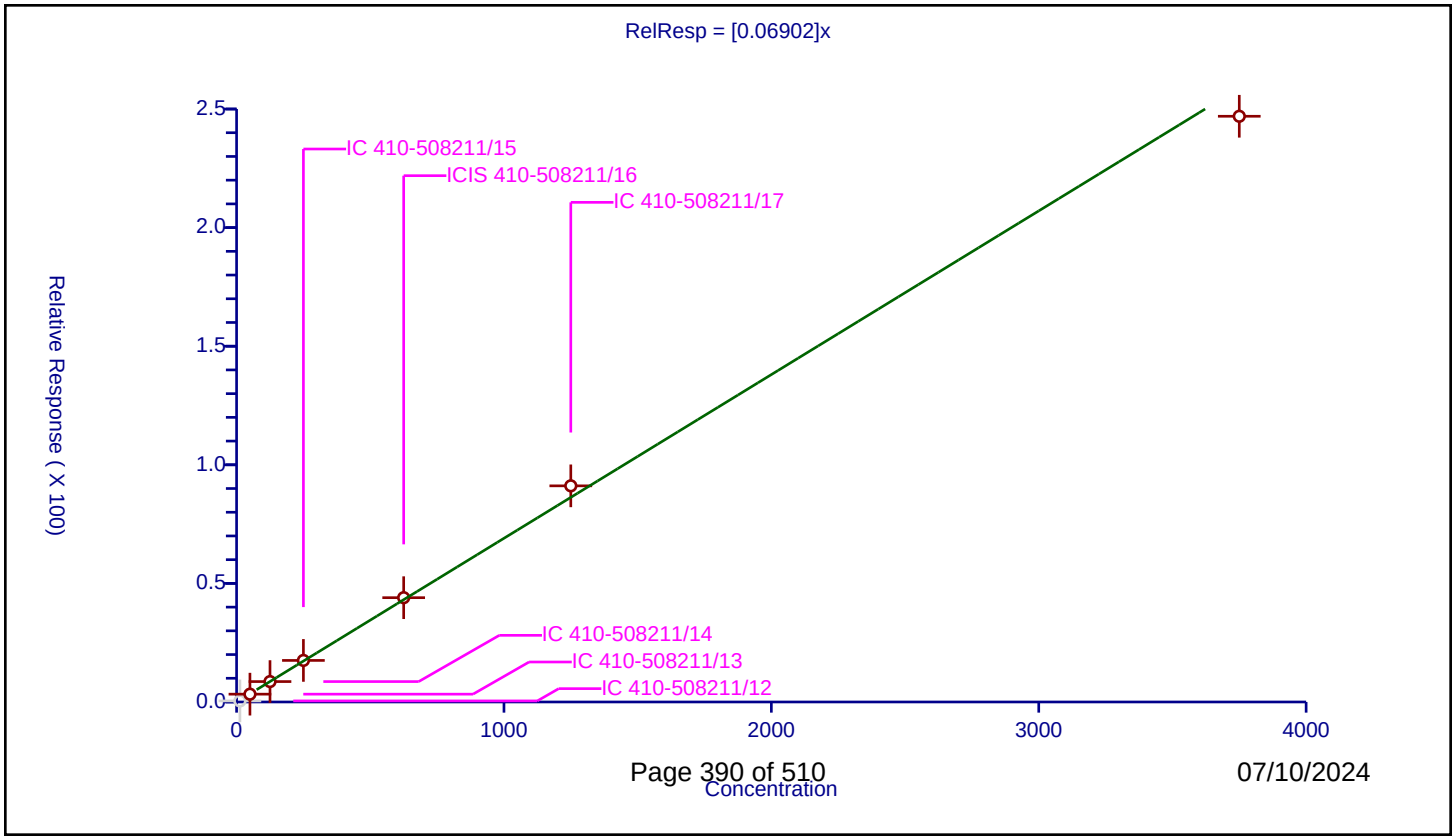
Curve Coefficients

Intercept:	0
Slope:	0.06902

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	12.5	0.451869	250.0	610243.0	0.03615	N
2	IC 410-508211/13	50.0	3.300116	250.0	566874.0	0.066002	Y
3	IC 410-508211/14	125.0	8.607458	250.0	617662.0	0.06886	Y
4	IC 410-508211/15	250.0	17.526595	250.0	573614.0	0.070106	Y
5	ICIS 410-508211/16	625.0	43.977356	250.0	572863.0	0.070364	Y
6	IC 410-508211/17	1250.0	91.133745	250.0	559244.0	0.072907	Y
7	IC 410-508211/18	3750.0	246.94445	250.0	589501.0	0.065852	Y



Calibration / Methyl methacrylate

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

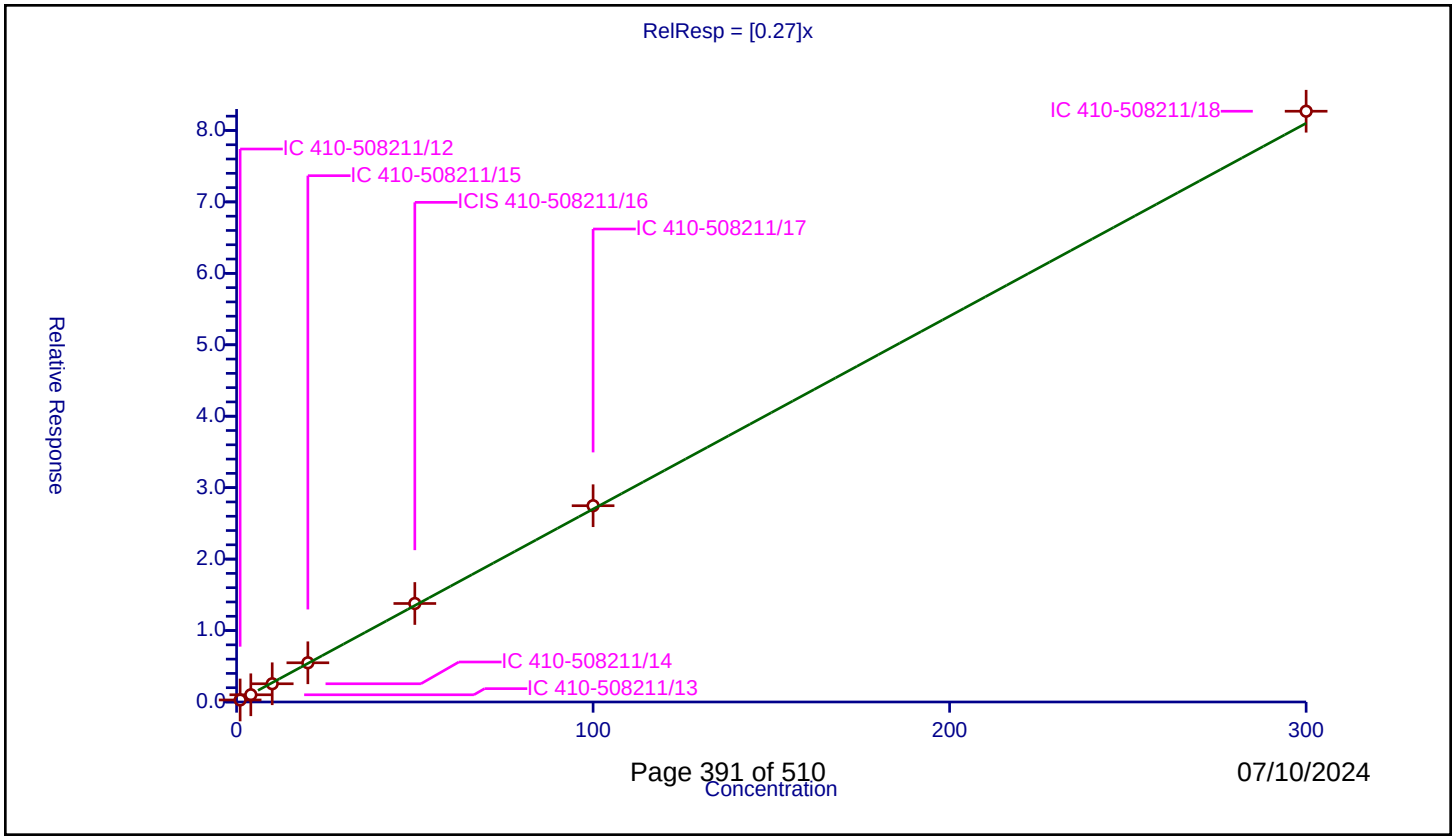
Curve Coefficients

Intercept:	0
Slope:	0.27

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.282153	50.0	1258715.0	0.282153	Y
2	IC 410-508211/13	4.0	1.00886	50.0	1278820.0	0.252215	Y
3	IC 410-508211/14	10.0	2.553024	50.0	1290685.0	0.255302	Y
4	IC 410-508211/15	20.0	5.489146	50.0	1244219.0	0.274457	Y
5	ICIS 410-508211/16	50.0	13.787127	50.0	1258986.0	0.275743	Y
6	IC 410-508211/17	100.0	27.473416	50.0	1251670.0	0.274734	Y
7	IC 410-508211/18	300.0	82.690296	50.0	1300987.0	0.275634	Y



Calibration / Dibromomethane

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

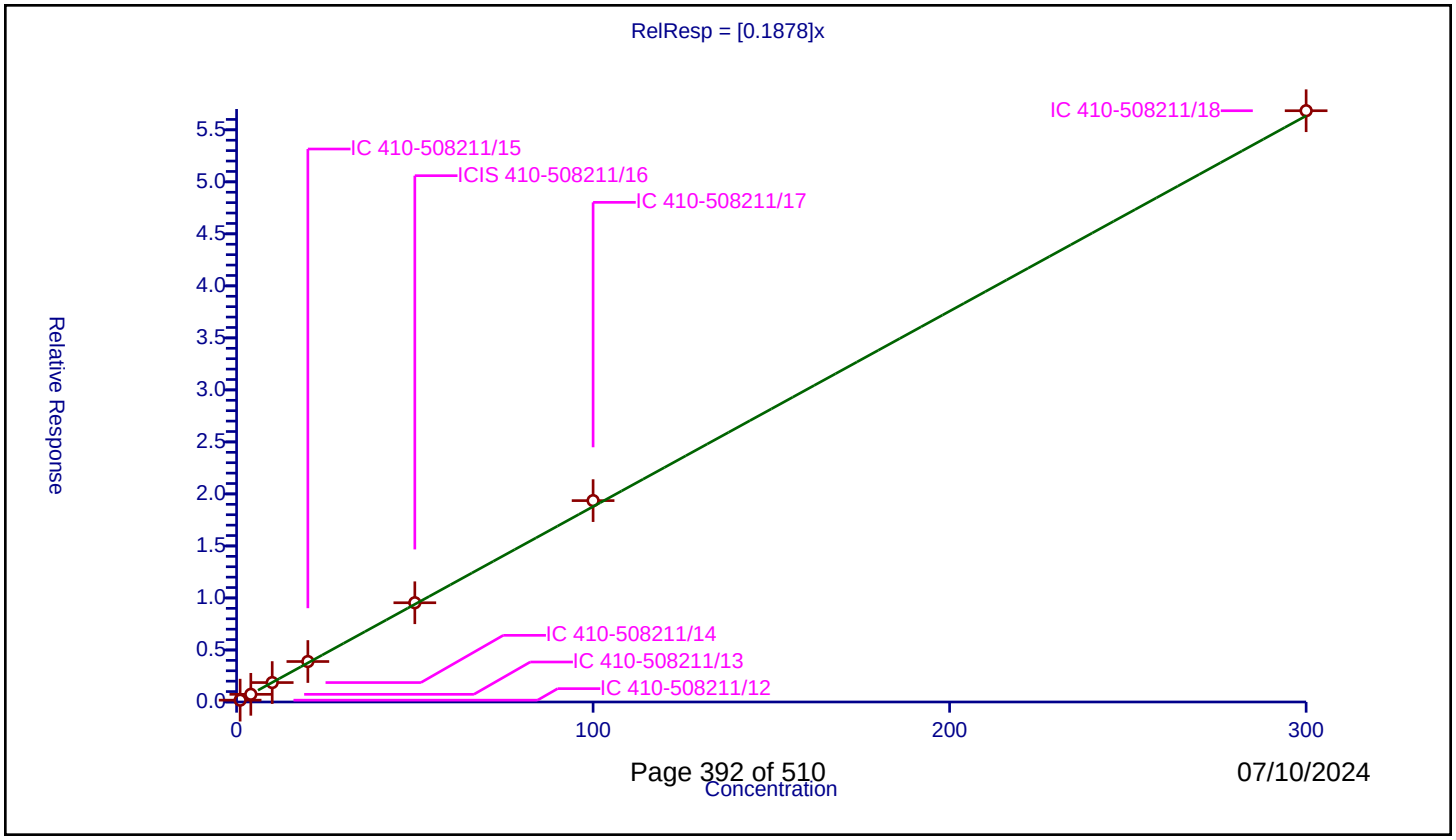
Curve Coefficients

Intercept:	0
Slope:	0.1878

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.175179	50.0	1258715.0	0.175179	Y
2	IC 410-508211/13	4.0	0.737633	50.0	1278820.0	0.184408	Y
3	IC 410-508211/14	10.0	1.868349	50.0	1290685.0	0.186835	Y
4	IC 410-508211/15	20.0	3.890593	50.0	1244219.0	0.19453	Y
5	ICIS 410-508211/16	50.0	9.53982	50.0	1258986.0	0.190796	Y
6	IC 410-508211/17	100.0	19.357219	50.0	1251670.0	0.193572	Y
7	IC 410-508211/18	300.0	56.835195	50.0	1300987.0	0.189451	Y



Calibration / Dichlorobromomethane

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

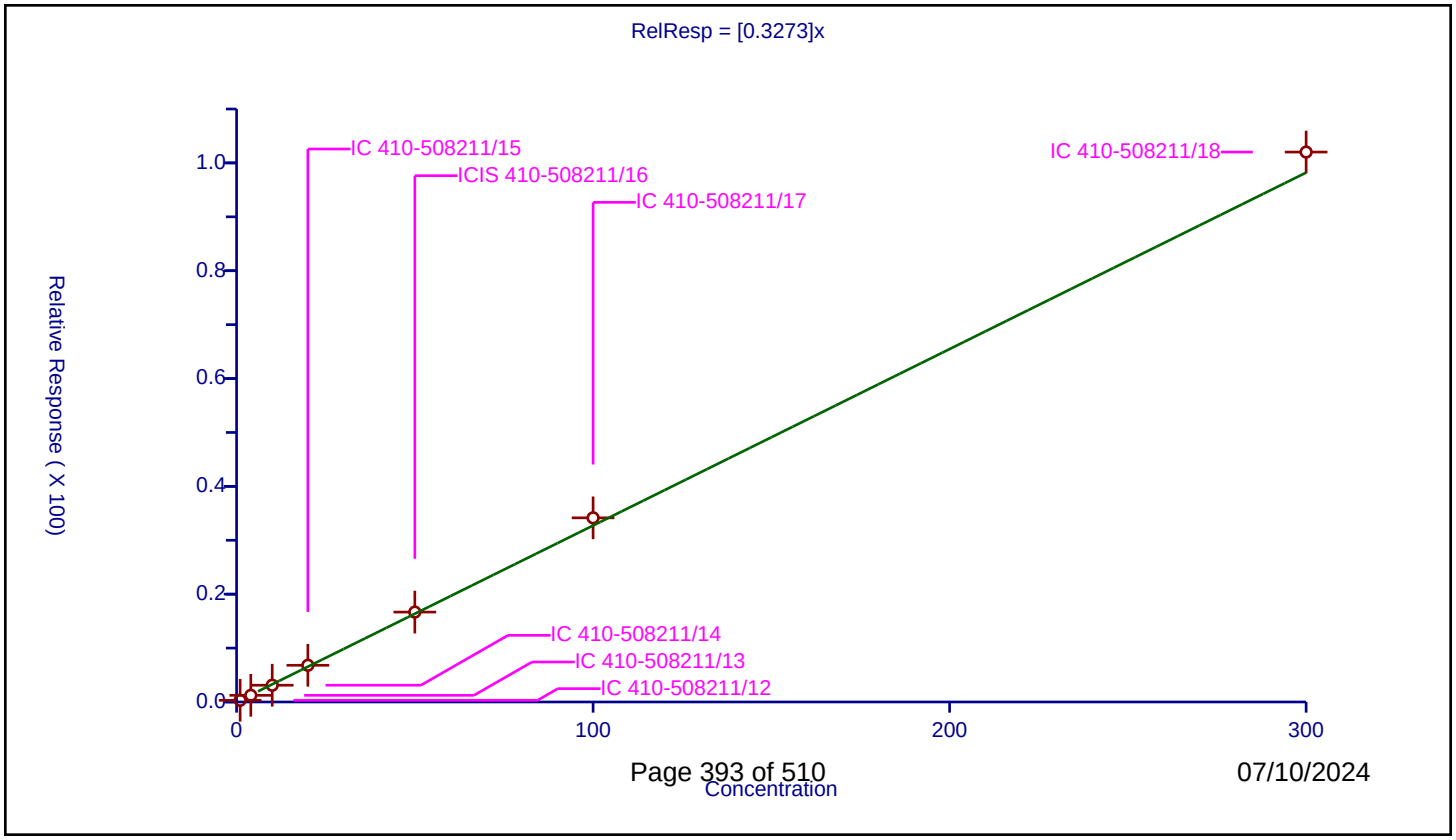
Curve Coefficients

Intercept:	0
Slope:	0.3273

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.316195	50.0	1258715.0	0.316195	Y
2	IC 410-508211/13	4.0	1.235749	50.0	1278820.0	0.308937	Y
3	IC 410-508211/14	10.0	3.106645	50.0	1290685.0	0.310664	Y
4	IC 410-508211/15	20.0	6.808367	50.0	1244219.0	0.340418	Y
5	ICIS 410-508211/16	50.0	16.676436	50.0	1258986.0	0.333529	Y
6	IC 410-508211/17	100.0	34.160601	50.0	1251670.0	0.341606	Y
7	IC 410-508211/18	300.0	102.014663	50.0	1300987.0	0.340049	Y



Calibration / 2-Nitropropane

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

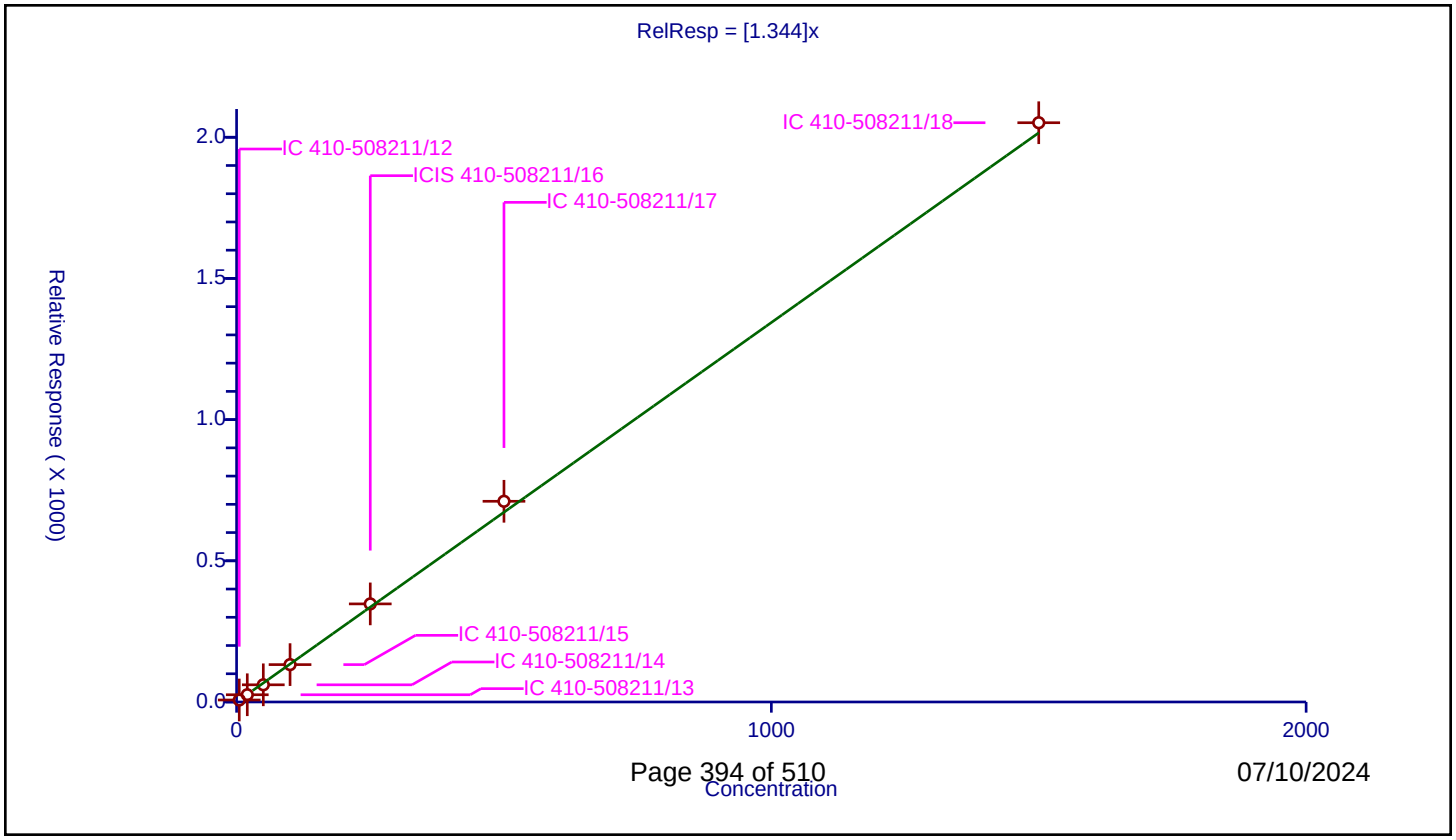
Curve Coefficients

Intercept:	0
Slope:	1.344

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	5.0	7.021793	250.0	610243.0	1.404359	Y
2	IC 410-508211/13	20.0	25.645911	250.0	566874.0	1.282296	Y
3	IC 410-508211/14	50.0	60.900217	250.0	617662.0	1.218004	Y
4	IC 410-508211/15	100.0	132.36253	250.0	573614.0	1.323625	Y
5	ICIS 410-508211/16	250.0	347.37494	250.0	572863.0	1.3895	Y
6	IC 410-508211/17	500.0	710.780089	250.0	559244.0	1.42156	Y
7	IC 410-508211/18	1500.0	2051.43121	250.0	589501.0	1.367621	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

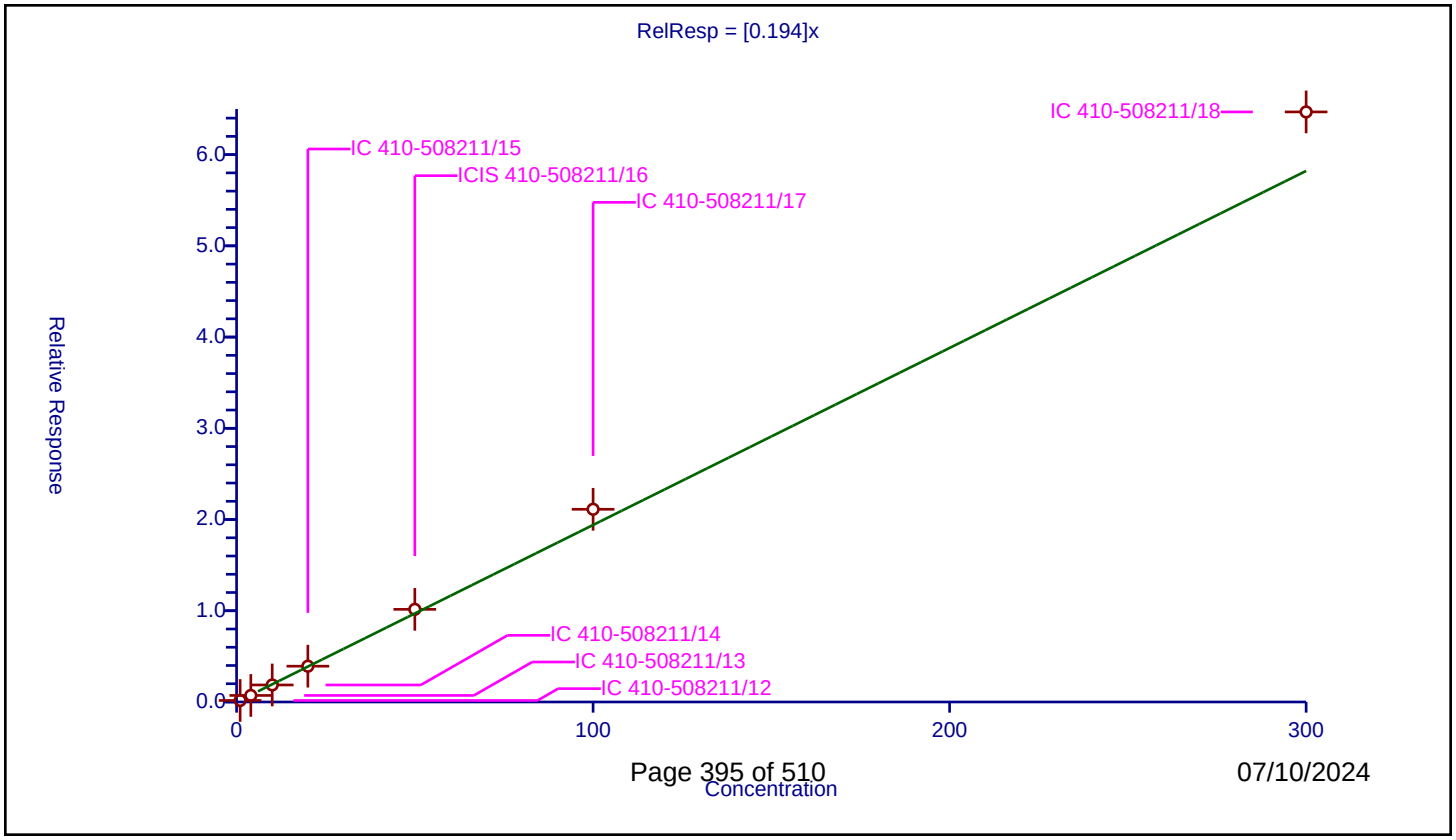
Curve Coefficients

Intercept:	0
Slope:	0.194

Error Coefficients

Relative Standard Deviation:	9.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.166241	50.0	1258715.0	0.166241	Y
2	IC 410-508211/13	4.0	0.717341	50.0	1278820.0	0.179335	Y
3	IC 410-508211/14	10.0	1.866063	50.0	1290685.0	0.186606	Y
4	IC 410-508211/15	20.0	3.923184	50.0	1244219.0	0.196159	Y
5	ICIS 410-508211/16	50.0	10.155355	50.0	1258986.0	0.203107	Y
6	IC 410-508211/17	100.0	21.123938	50.0	1251670.0	0.211239	Y
7	IC 410-508211/18	300.0	64.681353	50.0	1300987.0	0.215605	Y



07/10/2024

Calibration / cis-1,3-Dichloropropene

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

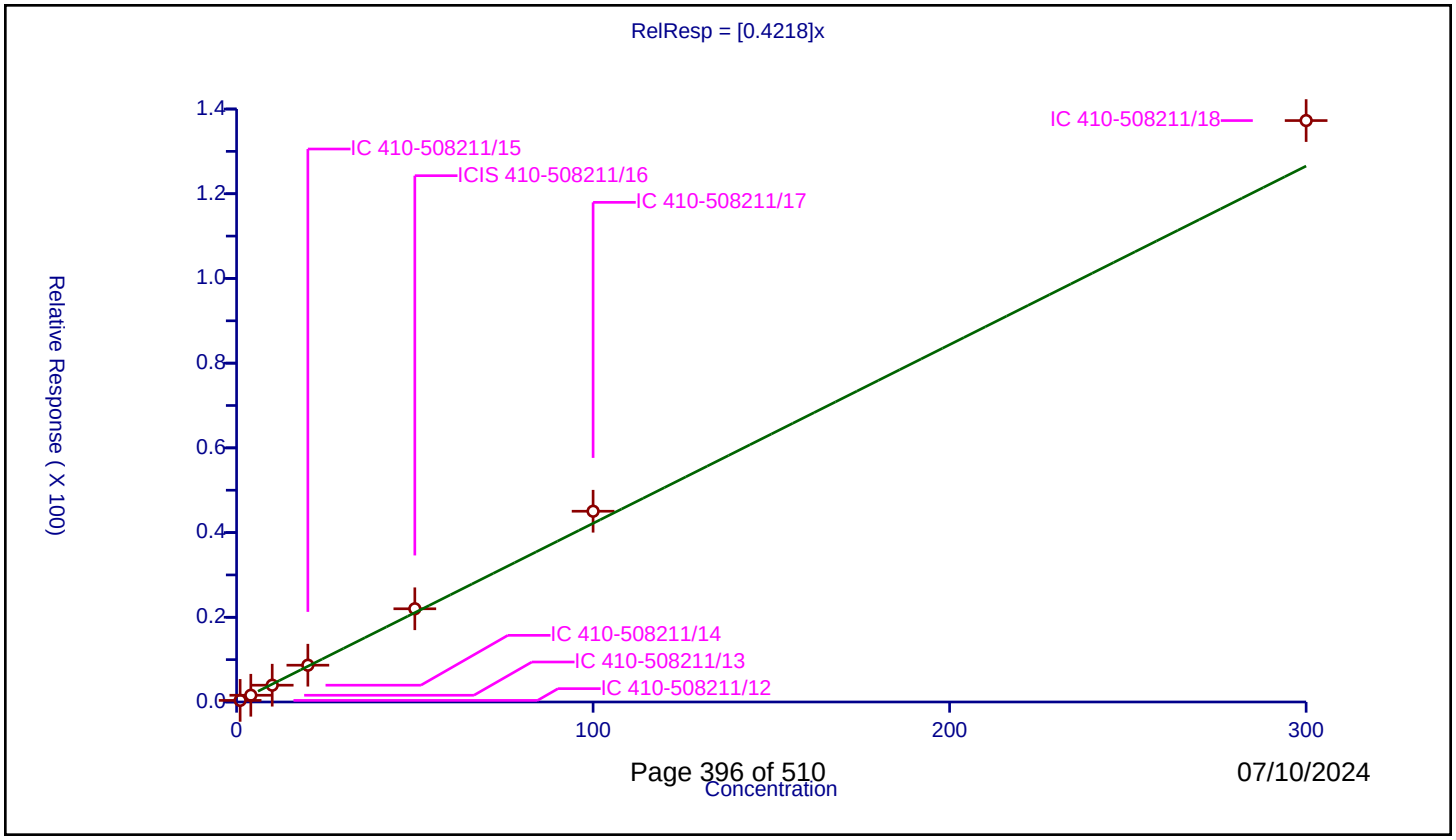
Curve Coefficients

Intercept:	0
Slope:	0.4218

Error Coefficients

Relative Standard Deviation:	7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.37586	50.0	1258715.0	0.37586	Y
2	IC 410-508211/13	4.0	1.591037	50.0	1278820.0	0.397759	Y
3	IC 410-508211/14	10.0	3.964678	50.0	1290685.0	0.396468	Y
4	IC 410-508211/15	20.0	8.685609	50.0	1244219.0	0.43428	Y
5	ICIS 410-508211/16	50.0	22.008346	50.0	1258986.0	0.440167	Y
6	IC 410-508211/17	100.0	45.037031	50.0	1251670.0	0.45037	Y
7	IC 410-508211/18	300.0	137.27101	50.0	1300987.0	0.45757	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

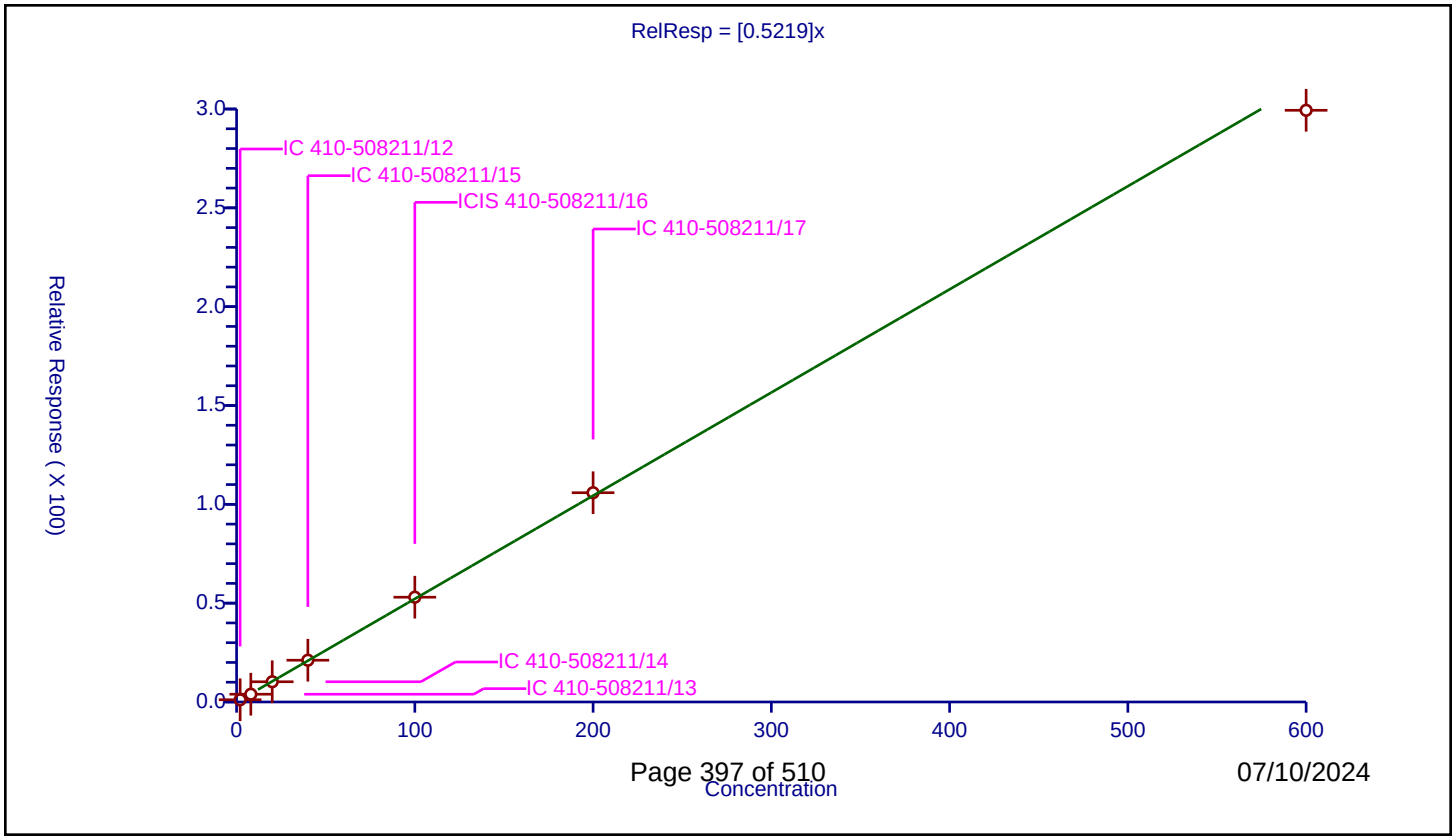
Curve Coefficients

Intercept:	0
Slope:	0.5219

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	2.0	1.125791	50.0	1258715.0	0.562895	Y
2	IC 410-508211/13	8.0	3.938084	50.0	1278820.0	0.49226	Y
3	IC 410-508211/14	20.0	10.227863	50.0	1290685.0	0.511393	Y
4	IC 410-508211/15	40.0	21.135668	50.0	1244219.0	0.528392	Y
5	ICIS 410-508211/16	100.0	53.009763	50.0	1258986.0	0.530098	Y
6	IC 410-508211/17	200.0	105.871156	50.0	1251670.0	0.529356	Y
7	IC 410-508211/18	600.0	299.345881	50.0	1300987.0	0.49891	Y



Calibration / Toluene-d8 (Surr)

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

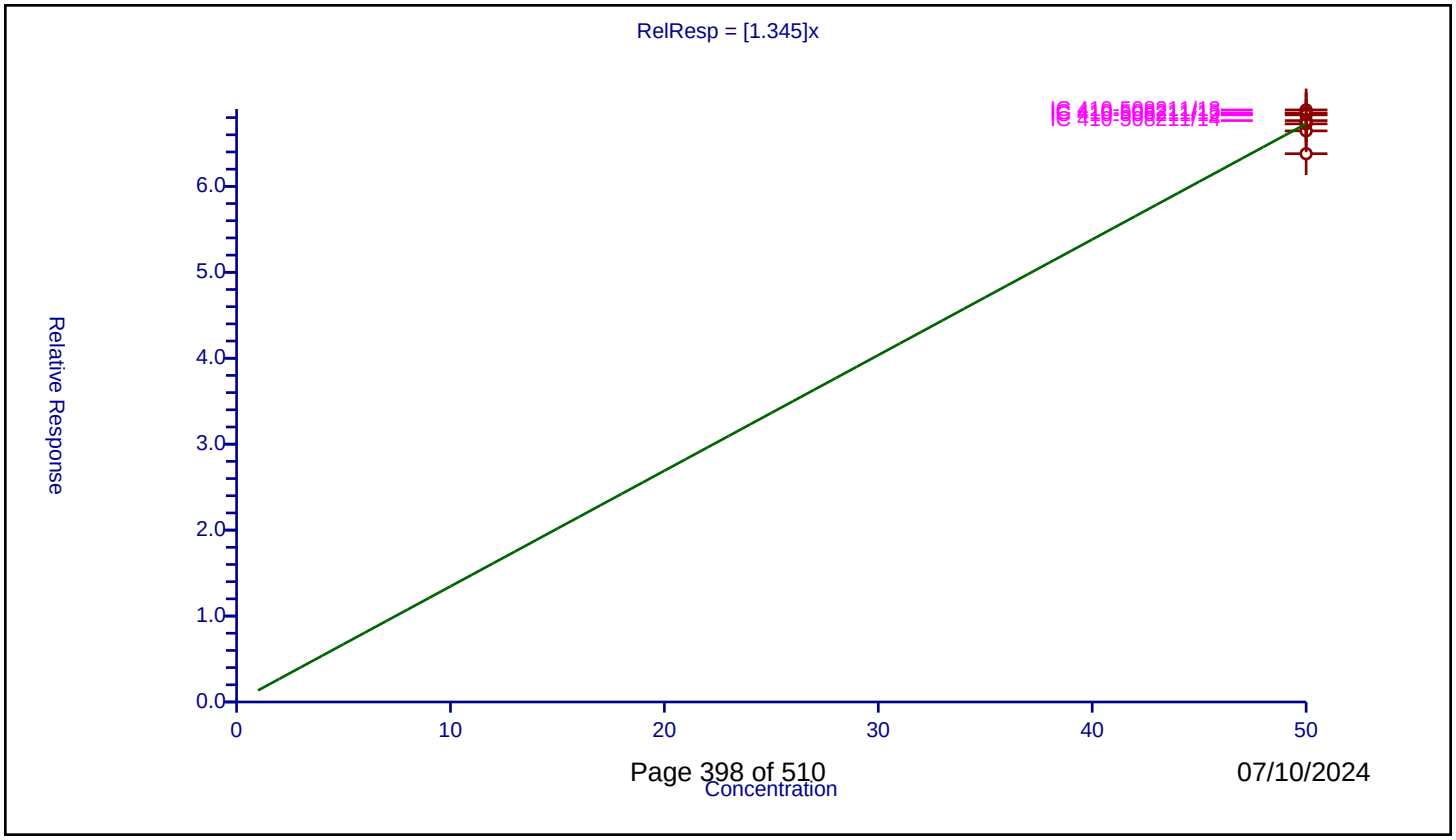
Curve Coefficients

Intercept:	0
Slope:	1.345

Error Coefficients

Relative Standard Deviation:	2.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	50.0	68.31878	50.0	933370.0	1.366376	Y
2	IC 410-508211/13	50.0	68.893272	50.0	925078.0	1.377865	Y
3	IC 410-508211/14	50.0	67.65288	50.0	967100.0	1.353058	Y
4	IC 410-508211/15	50.0	68.524805	50.0	919092.0	1.370496	Y
5	ICIS 410-508211/16	50.0	67.270377	50.0	957938.0	1.345408	Y
6	IC 410-508211/17	50.0	66.456358	50.0	972378.0	1.329127	Y
7	IC 410-508211/18	50.0	63.801615	50.0	1099288.0	1.276032	Y



Calibration / Toluene

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

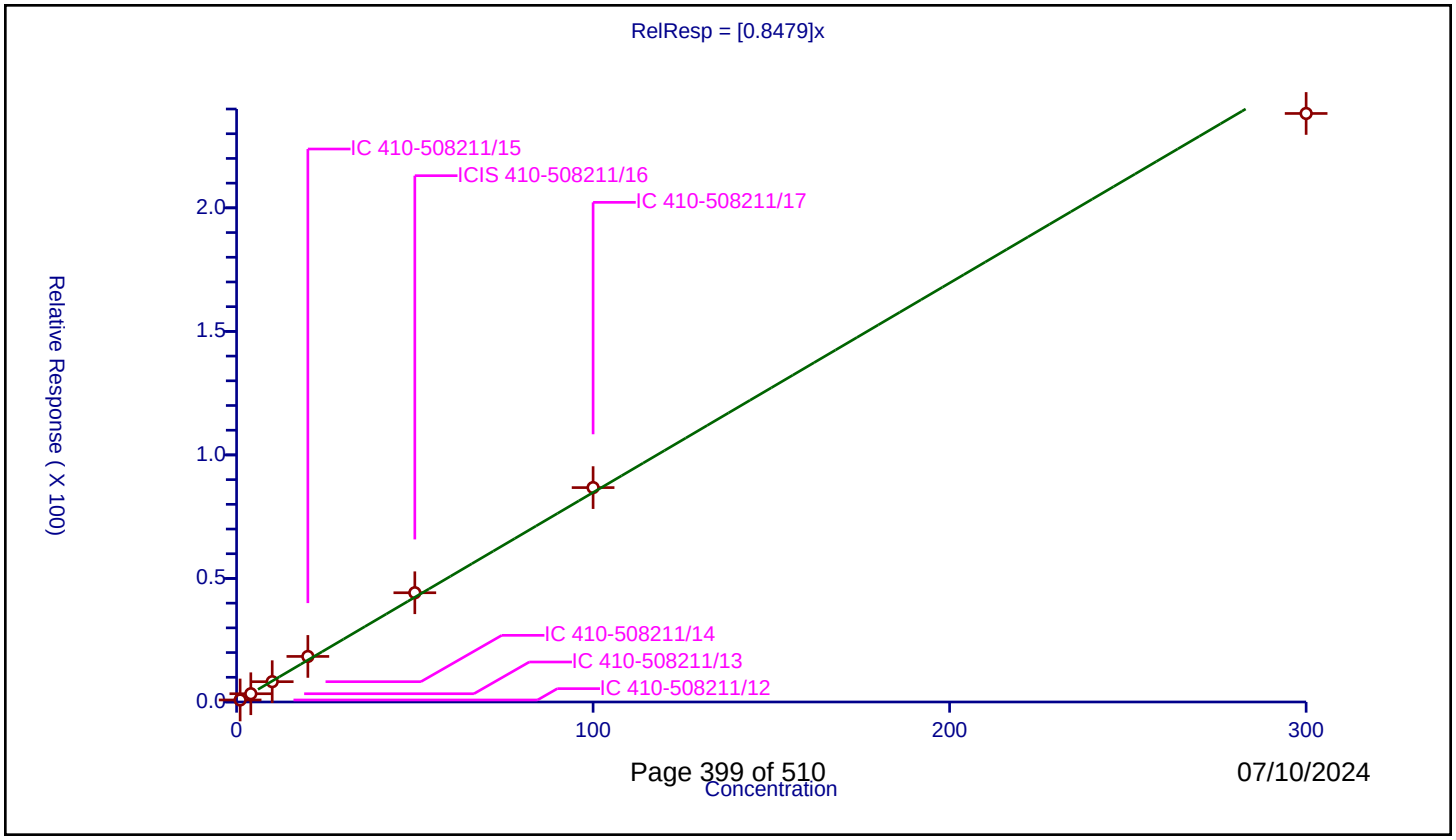
Curve Coefficients

Intercept:	0
Slope:	0.8479

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.811575	50.0	933370.0	0.811575	Y
2	IC 410-508211/13	4.0	3.339178	50.0	925078.0	0.834794	Y
3	IC 410-508211/14	10.0	8.214921	50.0	967100.0	0.821492	Y
4	IC 410-508211/15	20.0	18.434498	50.0	919092.0	0.921725	Y
5	ICIS 410-508211/16	50.0	44.209385	50.0	957938.0	0.884188	Y
6	IC 410-508211/17	100.0	86.773354	50.0	972378.0	0.867734	Y
7	IC 410-508211/18	300.0	238.202773	50.0	1099288.0	0.794009	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

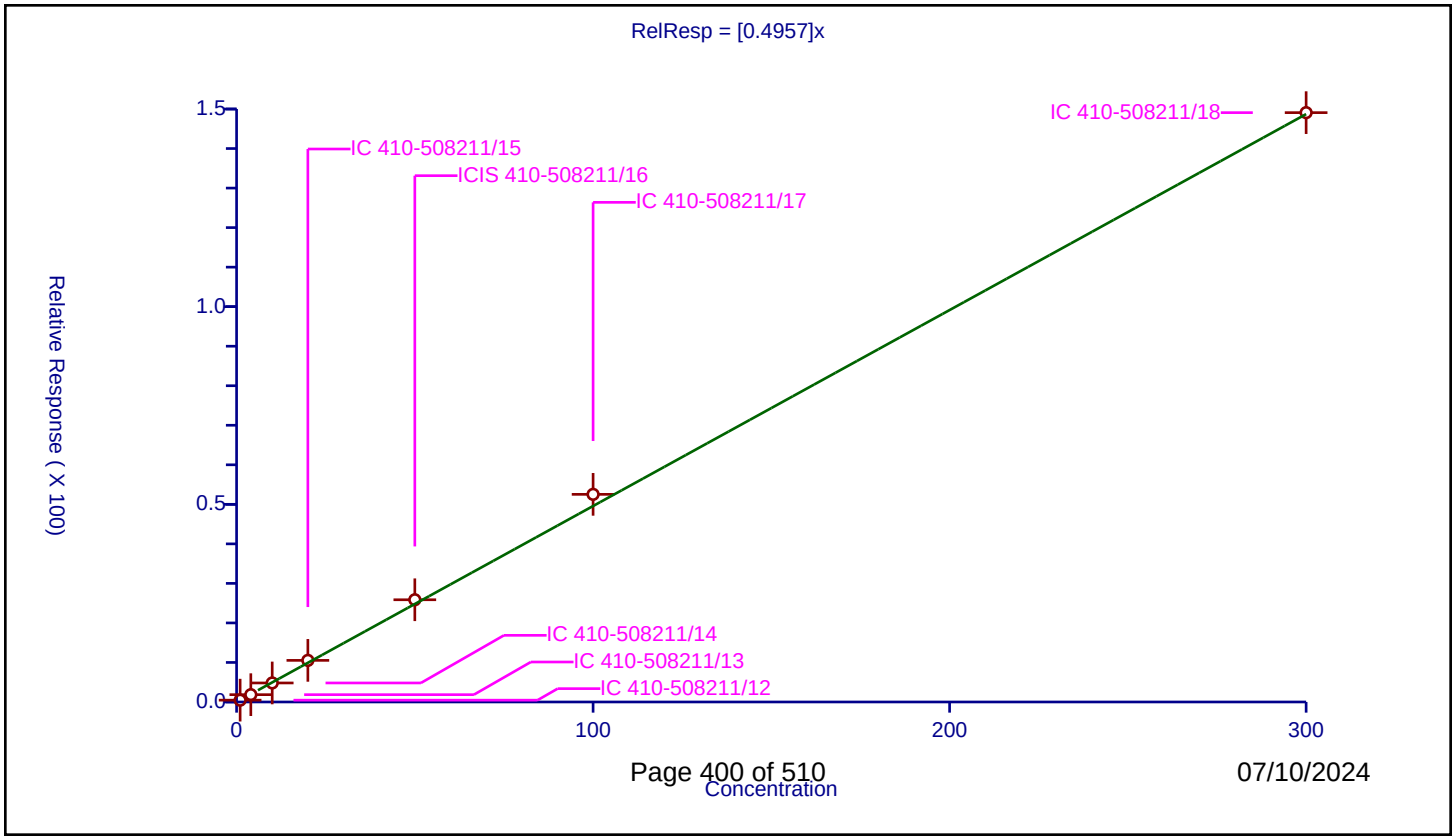
Curve Coefficients

Intercept:	0
Slope:	0.4957

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.459089	50.0	933370.0	0.459089	Y
2	IC 410-508211/13	4.0	1.853844	50.0	925078.0	0.463461	Y
3	IC 410-508211/14	10.0	4.816255	50.0	967100.0	0.481625	Y
4	IC 410-508211/15	20.0	10.527891	50.0	919092.0	0.526395	Y
5	ICIS 410-508211/16	50.0	25.859711	50.0	957938.0	0.517194	Y
6	IC 410-508211/17	100.0	52.524121	50.0	972378.0	0.525241	Y
7	IC 410-508211/18	300.0	149.085317	50.0	1099288.0	0.496951	Y



Calibration / Ethyl methacrylate

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

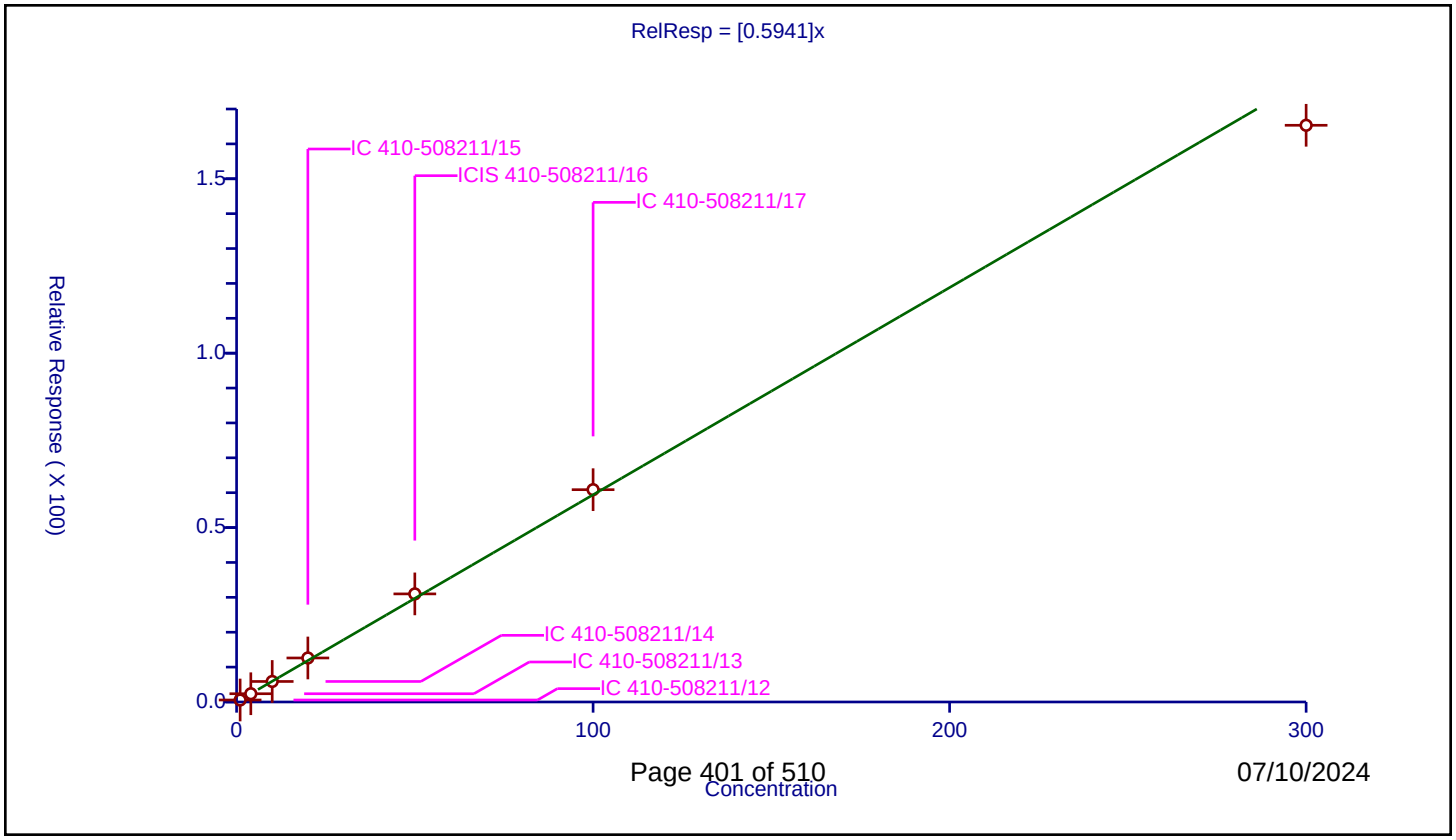
Curve Coefficients

Intercept:	0
Slope:	0.5941

Error Coefficients

Relative Standard Deviation:	4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.567192	50.0	933370.0	0.567192	Y
2	IC 410-508211/13	4.0	2.369098	50.0	925078.0	0.592274	Y
3	IC 410-508211/14	10.0	5.885844	50.0	967100.0	0.588584	Y
4	IC 410-508211/15	20.0	12.616093	50.0	919092.0	0.630805	Y
5	ICIS 410-508211/16	50.0	30.987339	50.0	957938.0	0.619747	Y
6	IC 410-508211/17	100.0	60.86851	50.0	972378.0	0.608685	Y
7	IC 410-508211/18	300.0	165.336063	50.0	1099288.0	0.55112	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

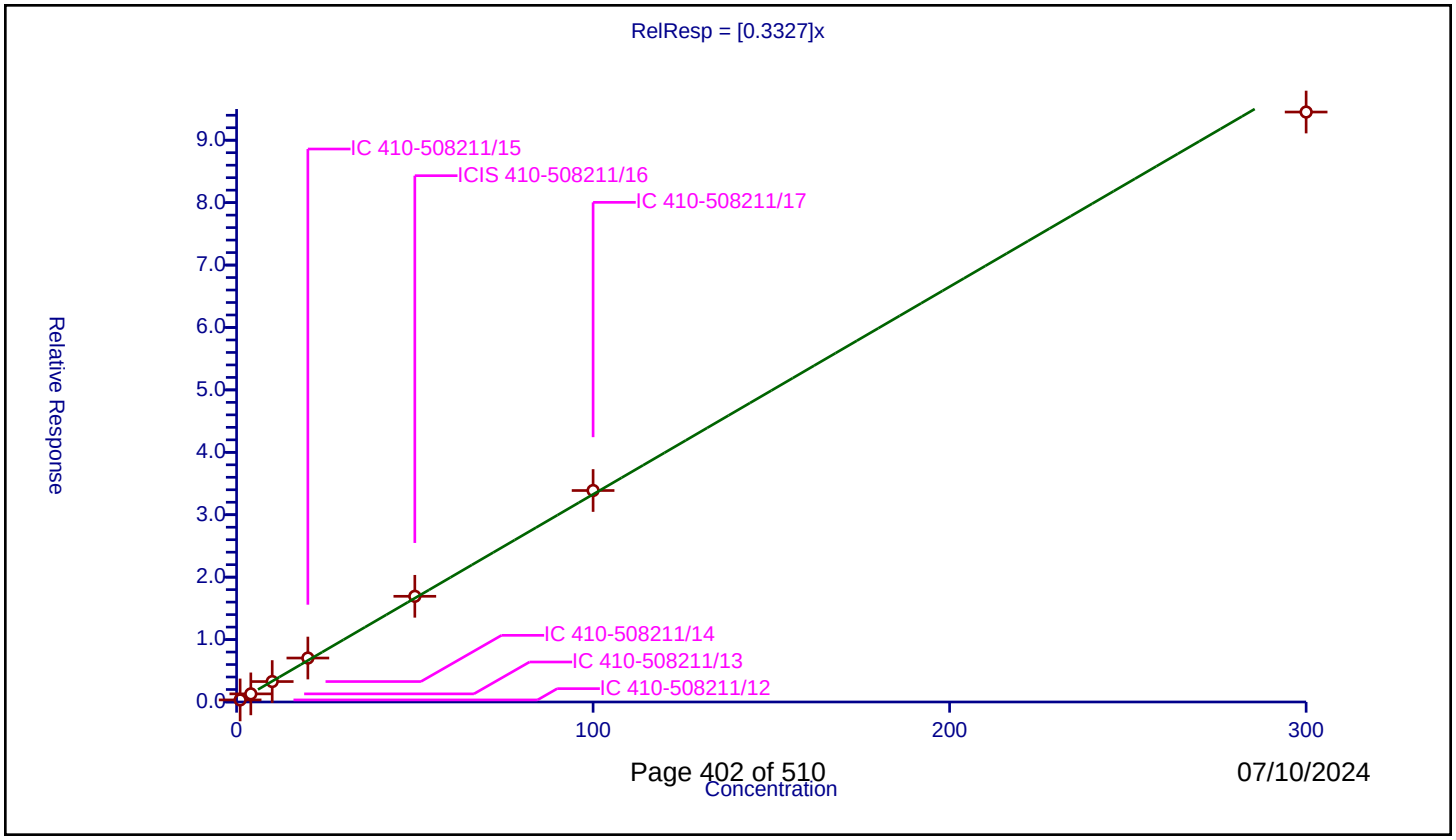
Curve Coefficients

Intercept:	0
Slope:	0.3327

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.331648	50.0	933370.0	0.331648	Y
2	IC 410-508211/13	4.0	1.298917	50.0	925078.0	0.324729	Y
3	IC 410-508211/14	10.0	3.276238	50.0	967100.0	0.327624	Y
4	IC 410-508211/15	20.0	7.041243	50.0	919092.0	0.352062	Y
5	ICIS 410-508211/16	50.0	16.932881	50.0	957938.0	0.338658	Y
6	IC 410-508211/17	100.0	33.882708	50.0	972378.0	0.338827	Y
7	IC 410-508211/18	300.0	94.516633	50.0	1099288.0	0.315055	Y



Calibration / Tetrachloroethene

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

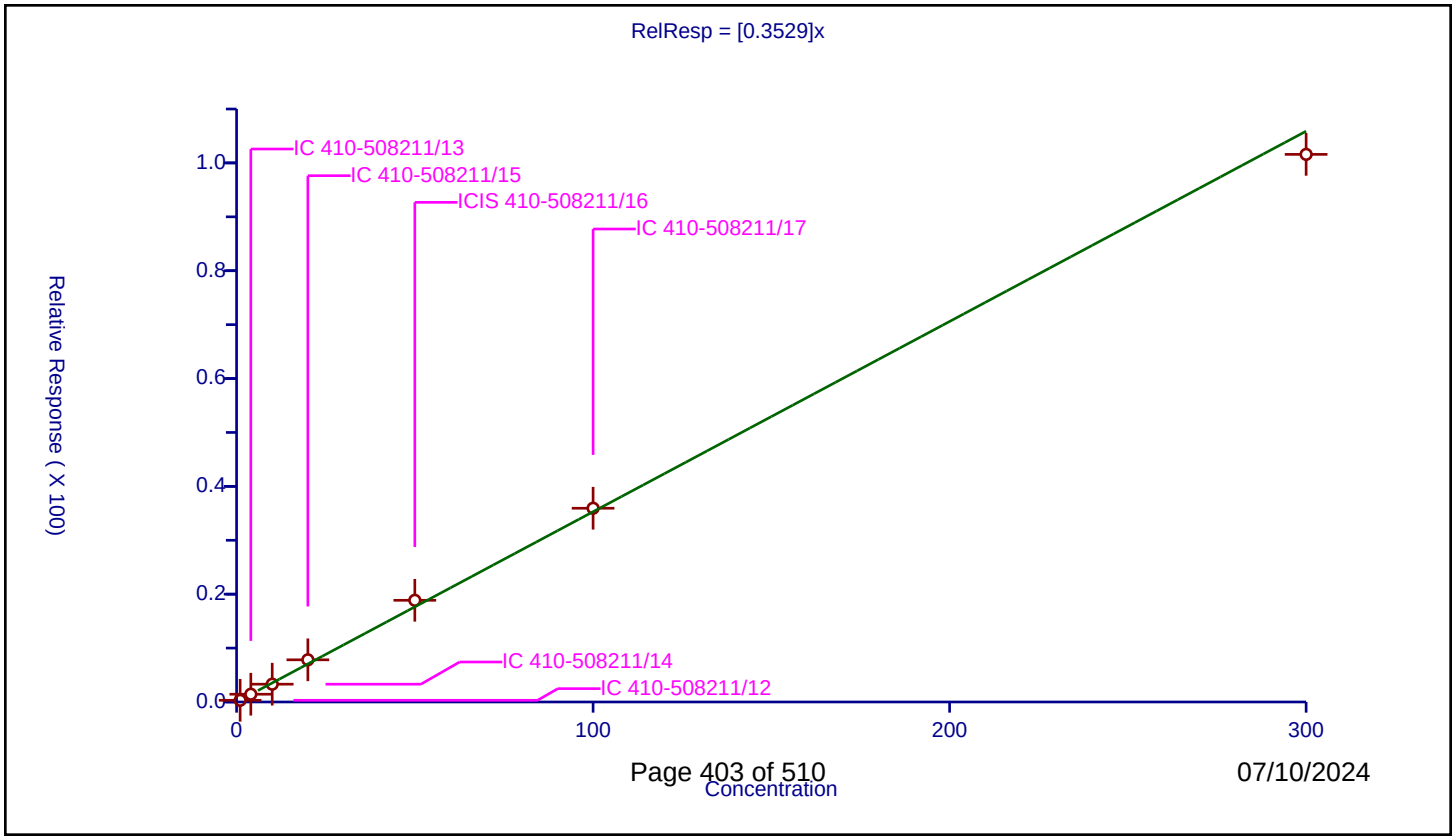
Curve Coefficients

Intercept:	0
Slope:	0.3529

Error Coefficients

Relative Standard Deviation:	7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.313006	50.0	933370.0	0.313006	Y
2	IC 410-508211/13	4.0	1.443716	50.0	925078.0	0.360929	Y
3	IC 410-508211/14	10.0	3.301106	50.0	967100.0	0.330111	Y
4	IC 410-508211/15	20.0	7.824081	50.0	919092.0	0.391204	Y
5	ICIS 410-508211/16	50.0	18.866618	50.0	957938.0	0.377332	Y
6	IC 410-508211/17	100.0	35.941373	50.0	972378.0	0.359414	Y
7	IC 410-508211/18	300.0	101.584844	50.0	1099288.0	0.338616	Y



Calibration / 1,3-Dichloropropane

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

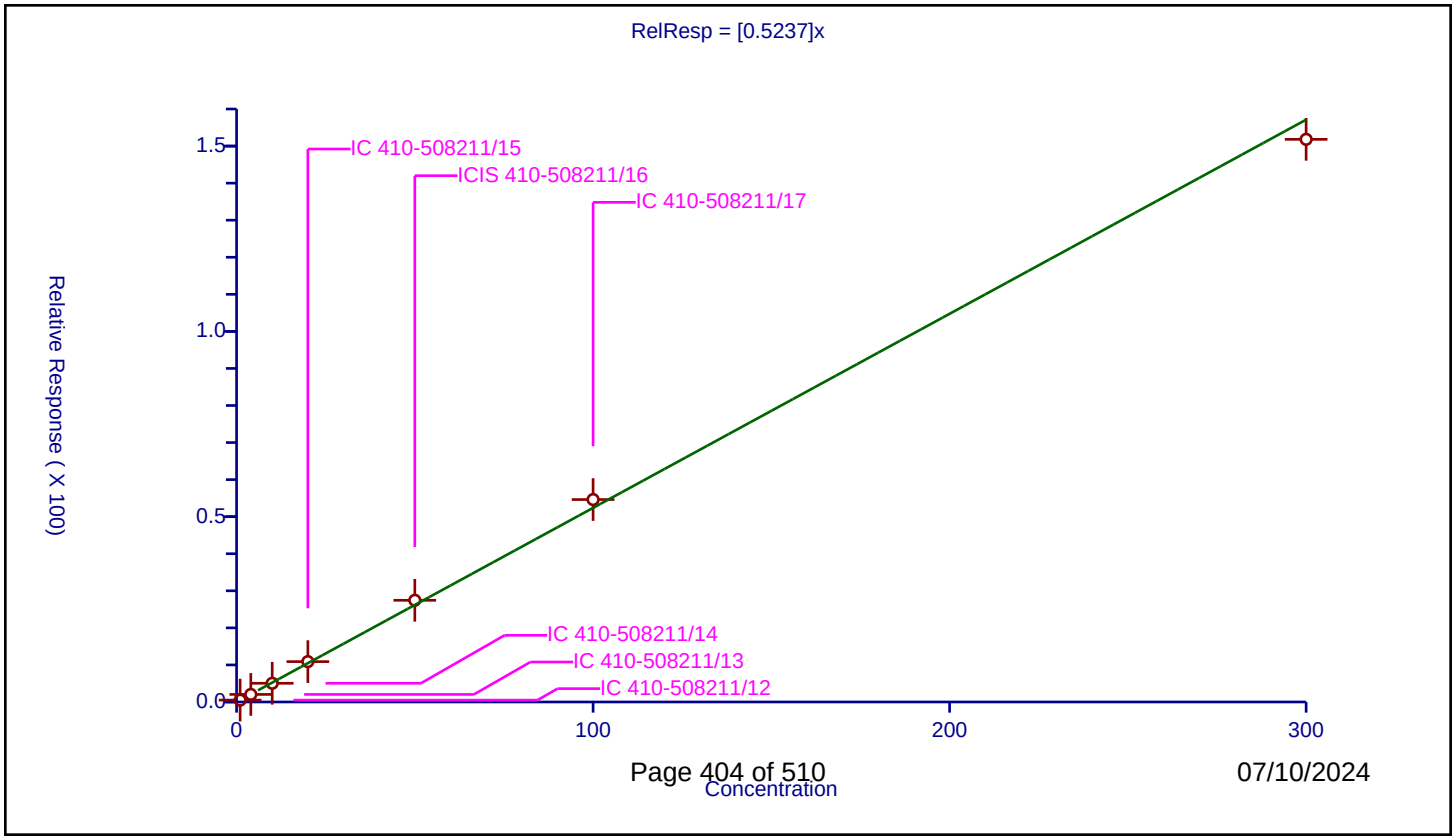
Curve Coefficients

Intercept:	0
Slope:	0.5237

Error Coefficients

Relative Standard Deviation:	4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.505212	50.0	933370.0	0.505212	Y
2	IC 410-508211/13	4.0	2.04253	50.0	925078.0	0.510633	Y
3	IC 410-508211/14	10.0	5.048237	50.0	967100.0	0.504824	Y
4	IC 410-508211/15	20.0	10.887049	50.0	919092.0	0.544352	Y
5	ICIS 410-508211/16	50.0	27.437371	50.0	957938.0	0.548747	Y
6	IC 410-508211/17	100.0	54.622122	50.0	972378.0	0.546221	Y
7	IC 410-508211/18	300.0	151.817404	50.0	1099288.0	0.506058	Y



Calibration / 2-Hexanone

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

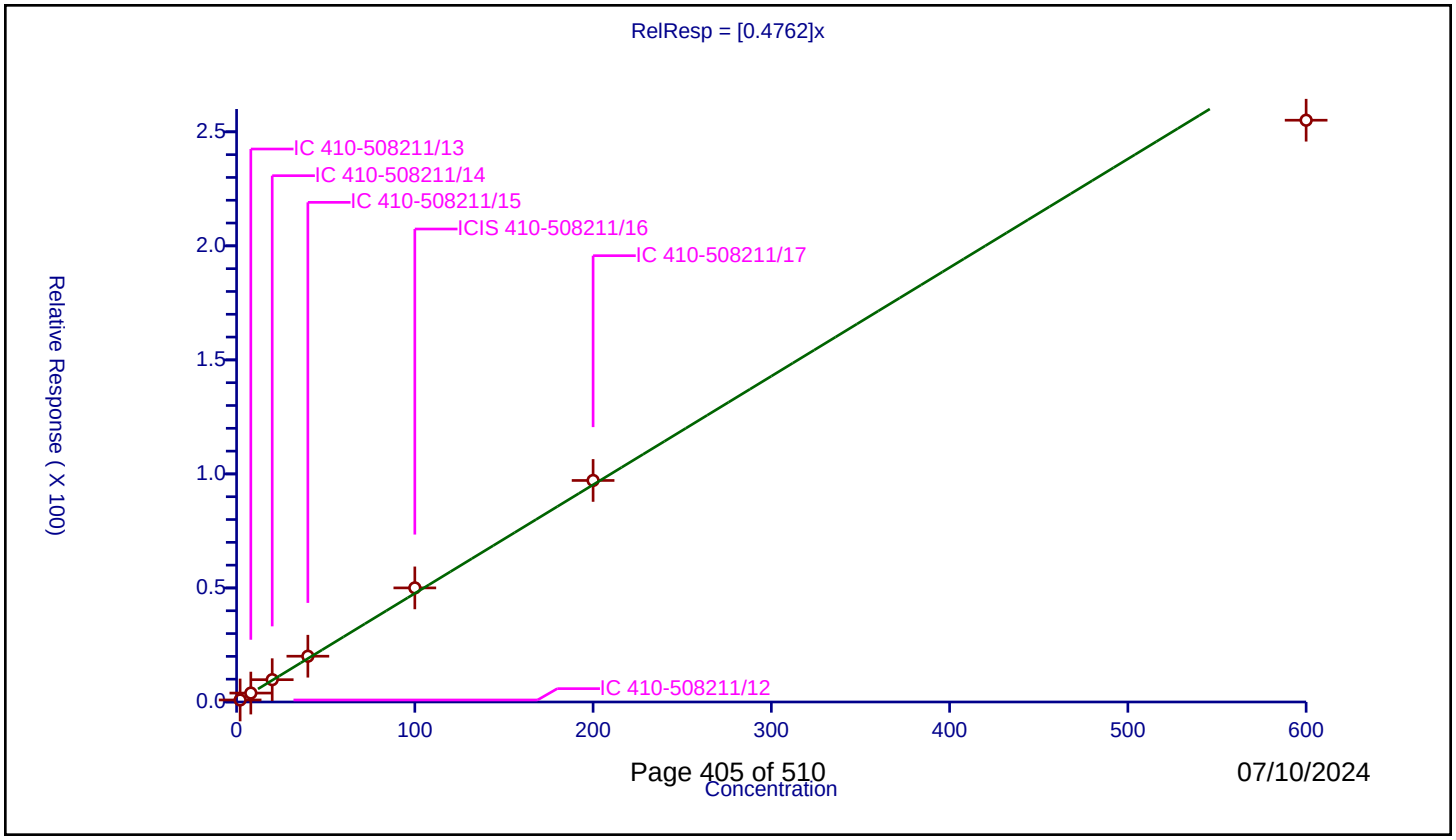
Curve Coefficients

Intercept:	0
Slope:	0.4762

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	2.0	0.884483	50.0	933370.0	0.442242	Y
2	IC 410-508211/13	8.0	3.914319	50.0	925078.0	0.48929	Y
3	IC 410-508211/14	20.0	9.784562	50.0	967100.0	0.489228	Y
4	IC 410-508211/15	40.0	20.065402	50.0	919092.0	0.501635	Y
5	ICIS 410-508211/16	100.0	50.028499	50.0	957938.0	0.500285	Y
6	IC 410-508211/17	200.0	97.13198	50.0	972378.0	0.48566	Y
7	IC 410-508211/18	600.0	255.088521	50.0	1099288.0	0.425148	Y



Calibration / Chlorodibromomethane

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

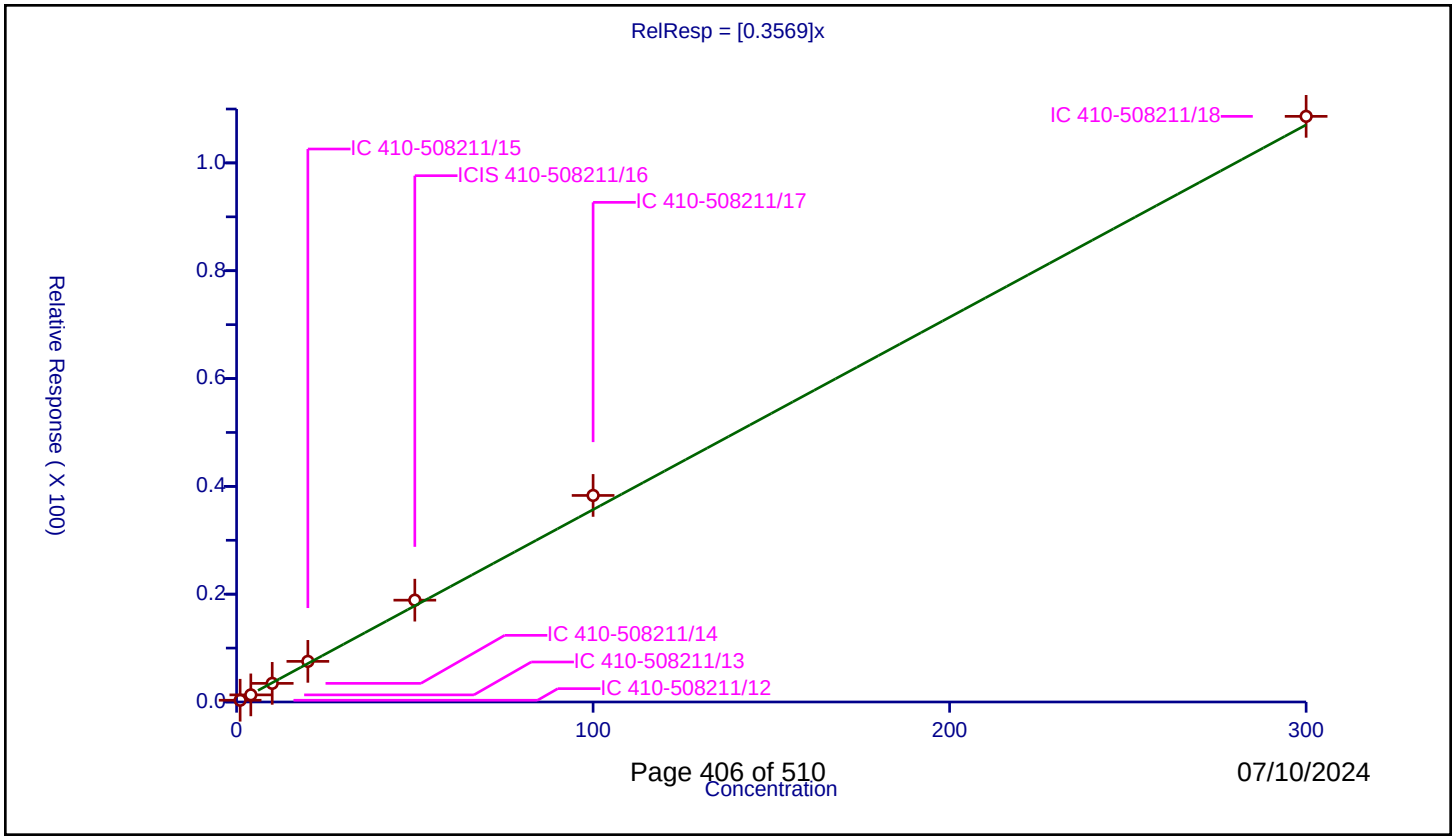
Curve Coefficients

Intercept:	0
Slope:	0.3569

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.322487	50.0	933370.0	0.322487	Y
2	IC 410-508211/13	4.0	1.319835	50.0	925078.0	0.329959	Y
3	IC 410-508211/14	10.0	3.457295	50.0	967100.0	0.34573	Y
4	IC 410-508211/15	20.0	7.53831	50.0	919092.0	0.376915	Y
5	ICIS 410-508211/16	50.0	18.890262	50.0	957938.0	0.377805	Y
6	IC 410-508211/17	100.0	38.314112	50.0	972378.0	0.383141	Y
7	IC 410-508211/18	300.0	108.637682	50.0	1099288.0	0.362126	Y



Calibration / Ethylene Dibromide

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

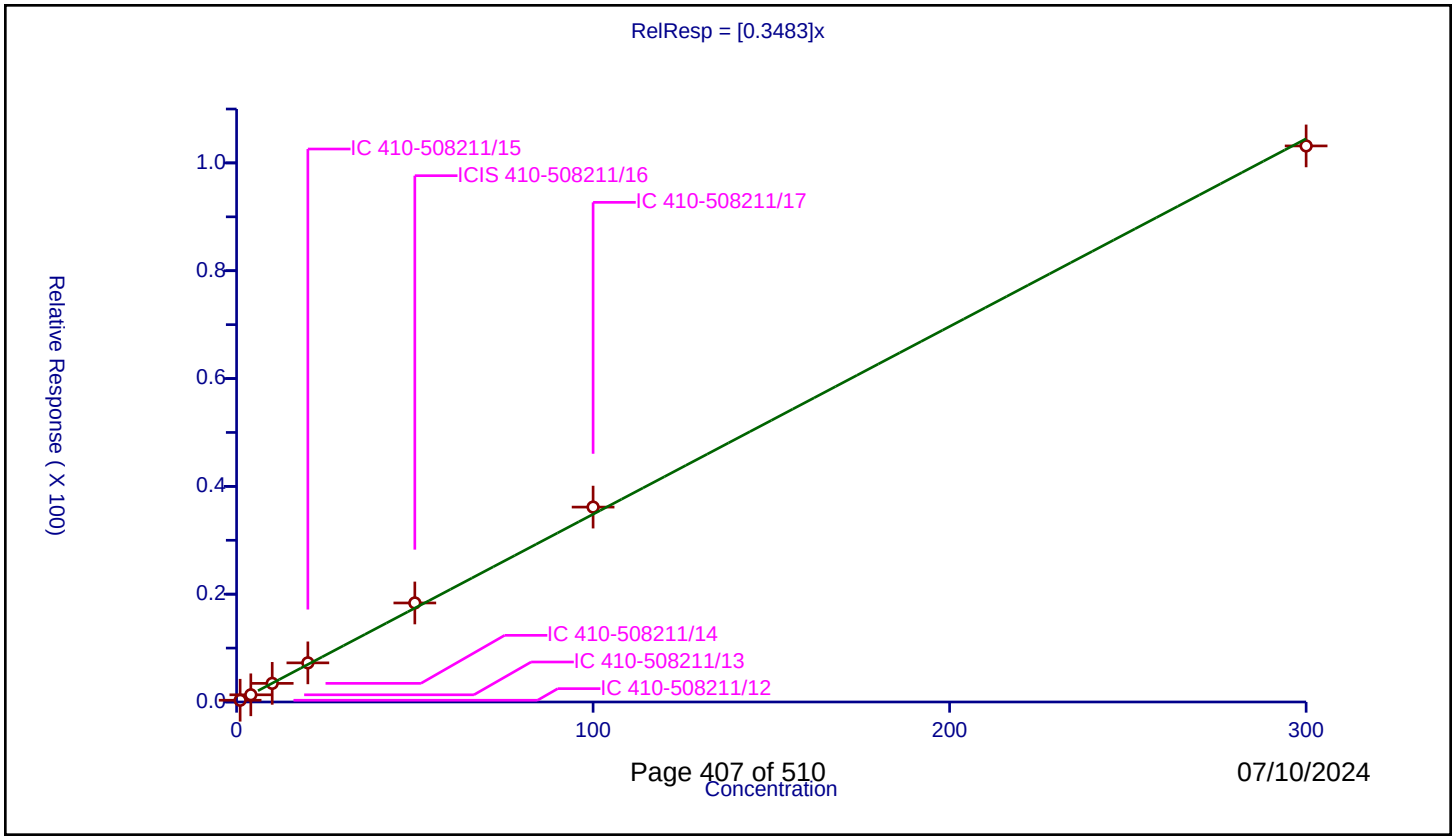
Curve Coefficients

Intercept:	0
Slope:	0.3483

Error Coefficients

Relative Standard Deviation:	4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.323666	50.0	933370.0	0.323666	Y
2	IC 410-508211/13	4.0	1.330969	50.0	925078.0	0.332742	Y
3	IC 410-508211/14	10.0	3.456933	50.0	967100.0	0.345693	Y
4	IC 410-508211/15	20.0	7.261841	50.0	919092.0	0.363092	Y
5	ICIS 410-508211/16	50.0	18.372066	50.0	957938.0	0.367441	Y
6	IC 410-508211/17	100.0	36.154099	50.0	972378.0	0.361541	Y
7	IC 410-508211/18	300.0	103.153587	50.0	1099288.0	0.343845	Y



Calibration / 1-Chlorohexane

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

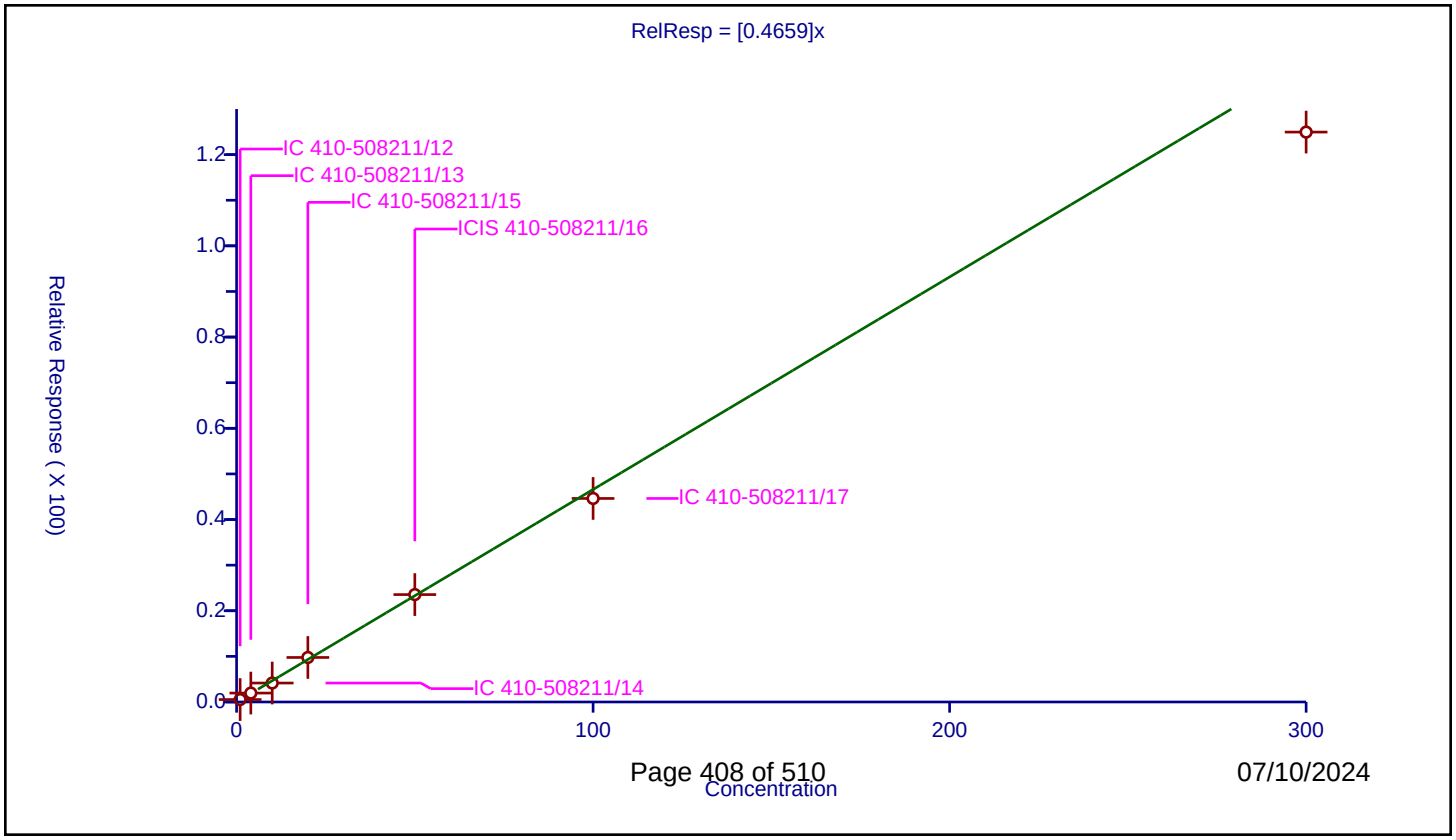
Curve Coefficients

Intercept:	0
Slope:	0.4659

Error Coefficients

Relative Standard Deviation:	9.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.5358	50.0	933370.0	0.5358	Y
2	IC 410-508211/13	4.0	1.952862	50.0	925078.0	0.488216	Y
3	IC 410-508211/14	10.0	4.156447	50.0	967100.0	0.415645	Y
4	IC 410-508211/15	20.0	9.759469	50.0	919092.0	0.487973	Y
5	ICIS 410-508211/16	50.0	23.548392	50.0	957938.0	0.470968	Y
6	IC 410-508211/17	100.0	44.620611	50.0	972378.0	0.446206	Y
7	IC 410-508211/18	300.0	124.940643	50.0	1099288.0	0.416469	Y



Calibration / Chlorobenzene

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

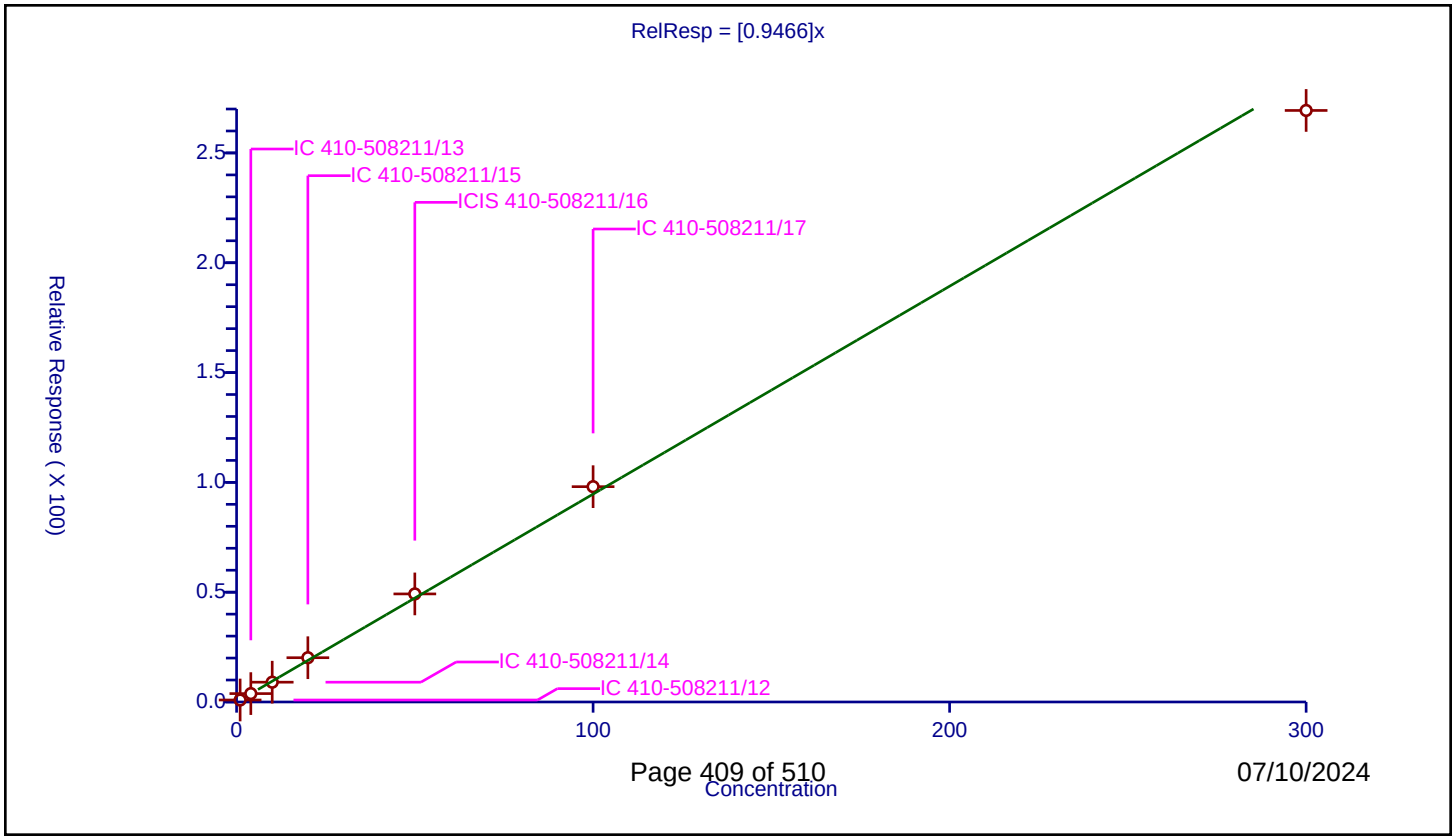
Curve Coefficients

Intercept:	0
Slope:	0.9466

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.899483	50.0	933370.0	0.899483	Y
2	IC 410-508211/13	4.0	3.819137	50.0	925078.0	0.954784	Y
3	IC 410-508211/14	10.0	9.012925	50.0	967100.0	0.901293	Y
4	IC 410-508211/15	20.0	20.16006	50.0	919092.0	1.008003	Y
5	ICIS 410-508211/16	50.0	49.207203	50.0	957938.0	0.984144	Y
6	IC 410-508211/17	100.0	98.039908	50.0	972378.0	0.980399	Y
7	IC 410-508211/18	300.0	269.342565	50.0	1099288.0	0.897809	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

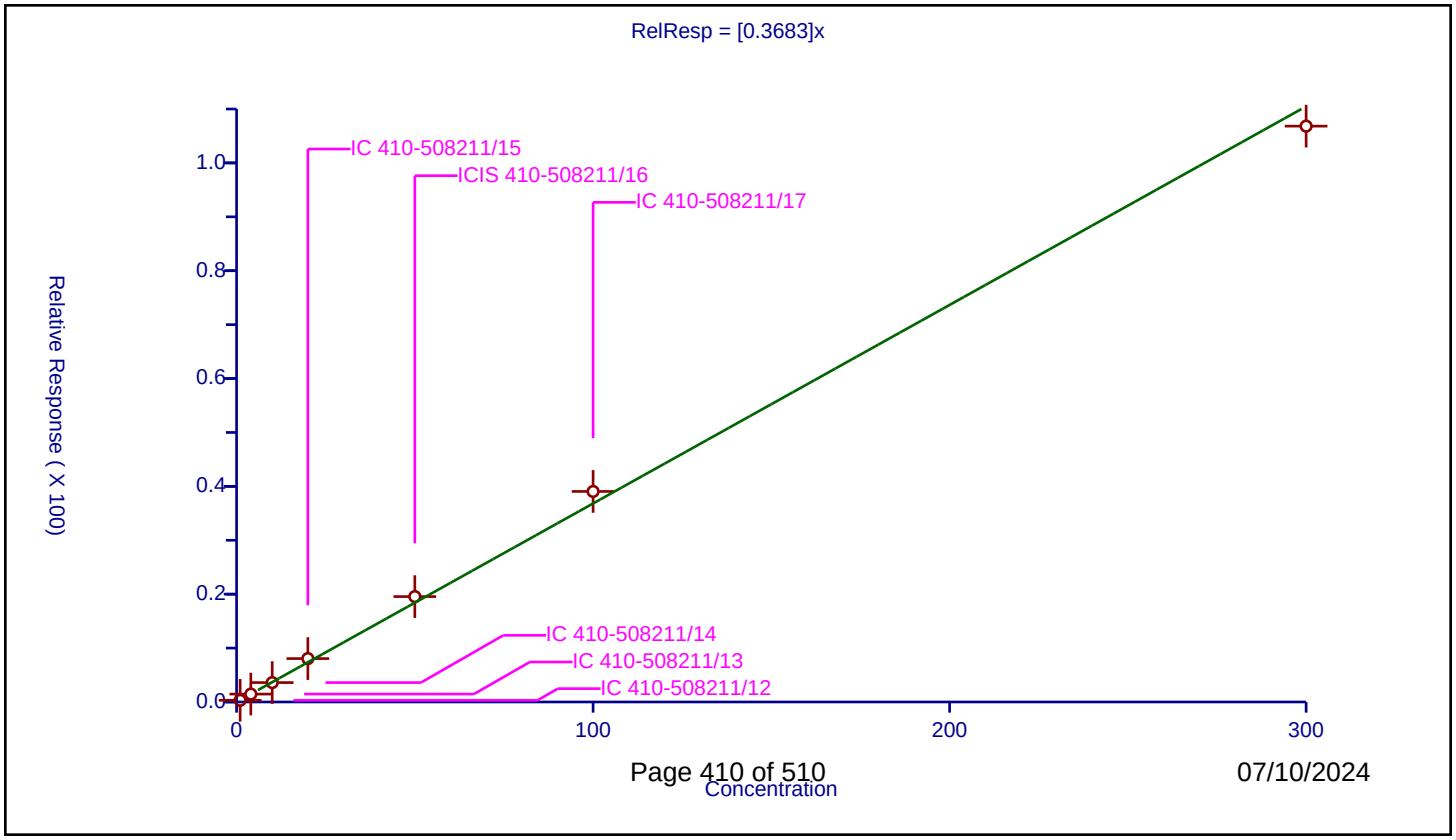
Curve Coefficients

Intercept:	0
Slope:	0.3683

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.311827	50.0	933370.0	0.311827	Y
2	IC 410-508211/13	4.0	1.464417	50.0	925078.0	0.366104	Y
3	IC 410-508211/14	10.0	3.59849	50.0	967100.0	0.359849	Y
4	IC 410-508211/15	20.0	8.050391	50.0	919092.0	0.40252	Y
5	ICIS 410-508211/16	50.0	19.550743	50.0	957938.0	0.391015	Y
6	IC 410-508211/17	100.0	39.055491	50.0	972378.0	0.390555	Y
7	IC 410-508211/18	300.0	106.822916	50.0	1099288.0	0.356076	Y



Calibration / Ethylbenzene

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

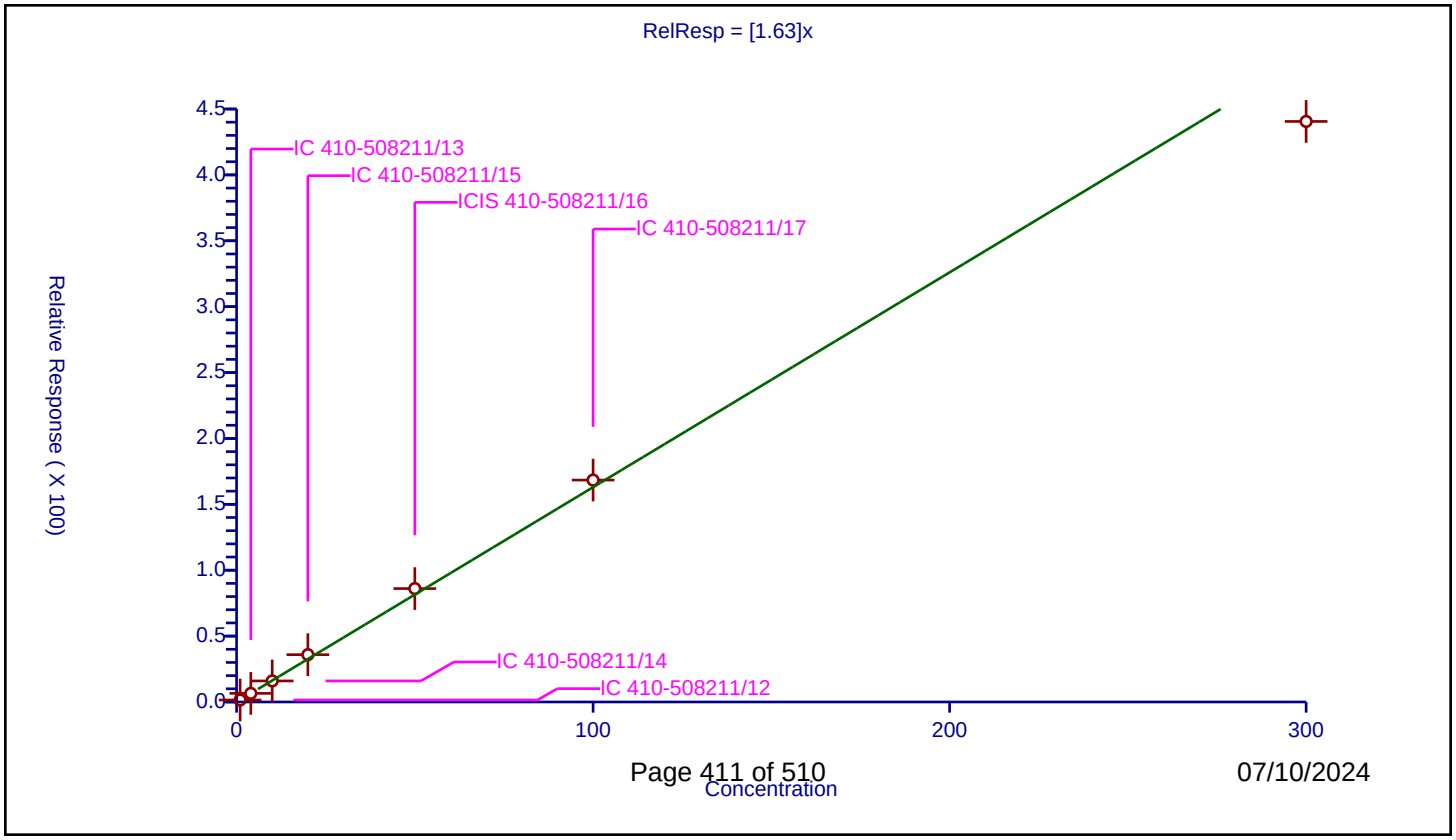
Curve Coefficients

Intercept:	0
Slope:	1.63

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	1.503905	50.0	933370.0	1.503905	Y
2	IC 410-508211/13	4.0	6.556312	50.0	925078.0	1.639078	Y
3	IC 410-508211/14	10.0	15.981181	50.0	967100.0	1.598118	Y
4	IC 410-508211/15	20.0	35.908538	50.0	919092.0	1.795427	Y
5	ICIS 410-508211/16	50.0	86.06747	50.0	957938.0	1.721349	Y
6	IC 410-508211/17	100.0	168.399635	50.0	972378.0	1.683996	Y
7	IC 410-508211/18	300.0	440.578356	50.0	1099288.0	1.468595	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

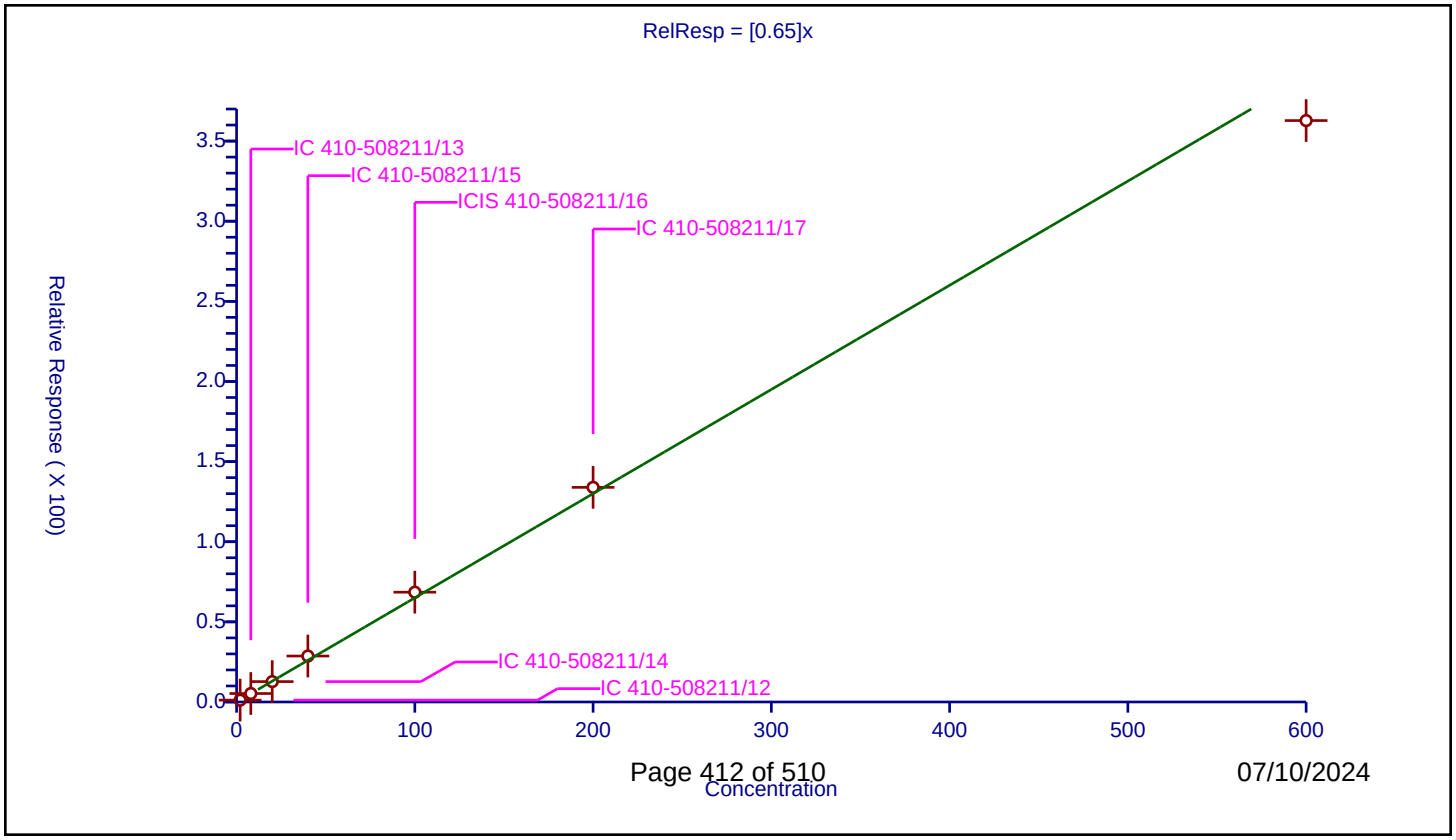
Curve Coefficients

Intercept:	0
Slope:	0.65

Error Coefficients

Relative Standard Deviation:	7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	2.0	1.153562	50.0	933370.0	0.576781	Y
2	IC 410-508211/13	8.0	5.289122	50.0	925078.0	0.66114	Y
3	IC 410-508211/14	20.0	12.717506	50.0	967100.0	0.635875	Y
4	IC 410-508211/15	40.0	28.677978	50.0	919092.0	0.716949	Y
5	ICIS 410-508211/16	100.0	68.508974	50.0	957938.0	0.68509	Y
6	IC 410-508211/17	200.0	133.924461	50.0	972378.0	0.669622	Y
7	IC 410-508211/18	600.0	362.793144	50.0	1099288.0	0.604655	Y



Calibration / n-Butyl acrylate

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

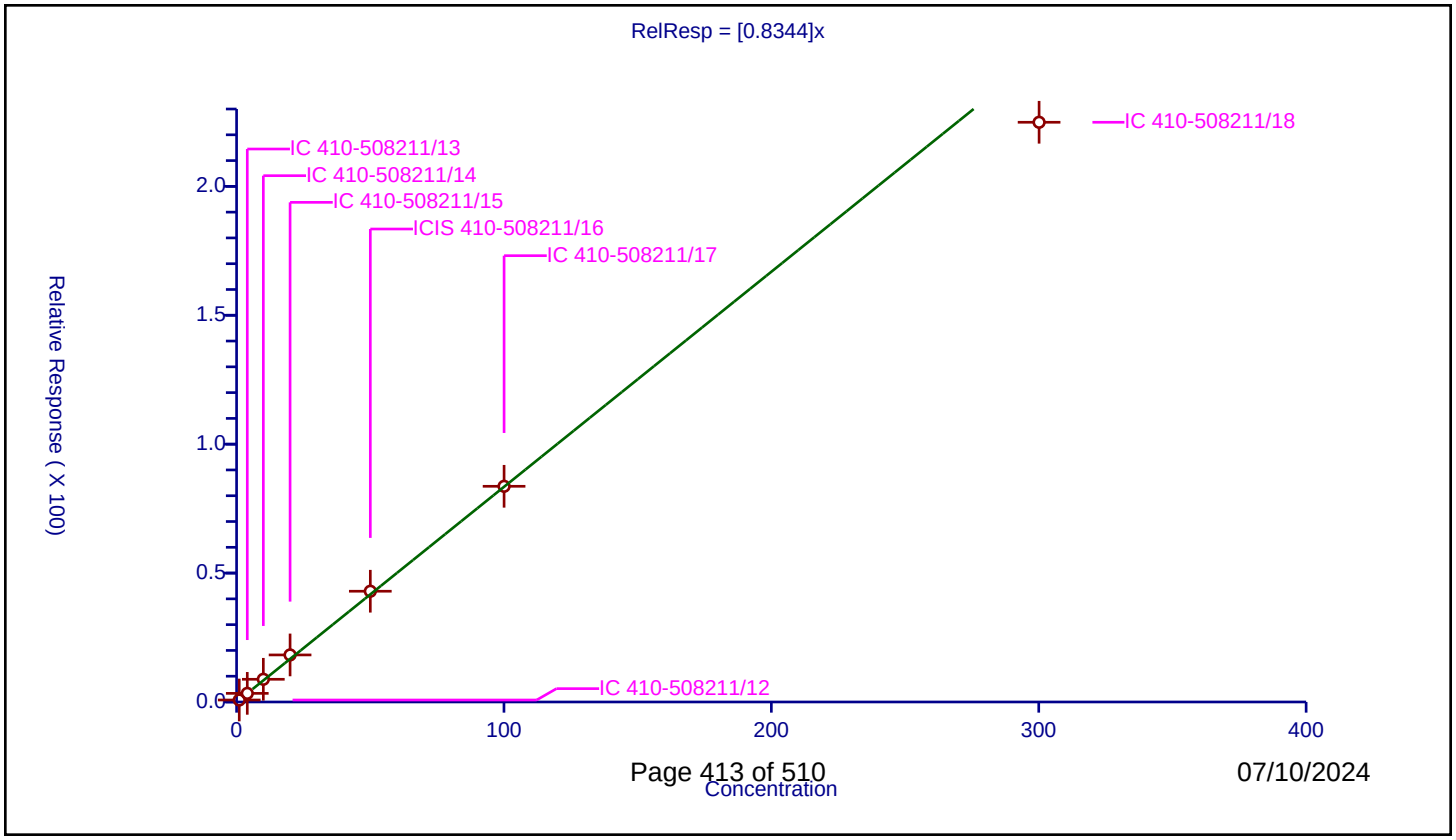
Curve Coefficients

Intercept:	0
Slope:	0.8344

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.000464	0.767916	50.0	933370.0	0.76756	Y
2	IC 410-508211/13	4.001854	3.34561	50.0	925078.0	0.836015	Y
3	IC 410-508211/14	10.004636	8.811705	50.0	967100.0	0.880762	Y
4	IC 410-508211/15	20.009272	18.252743	50.0	919092.0	0.912214	Y
5	ICIS 410-508211/16	50.02318	42.956955	50.0	957938.0	0.858741	Y
6	IC 410-508211/17	100.04636	83.657384	50.0	972378.0	0.836186	Y
7	IC 410-508211/18	300.13908	224.855088	50.0	1099288.0	0.74917	Y



Calibration / o-Xylene

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

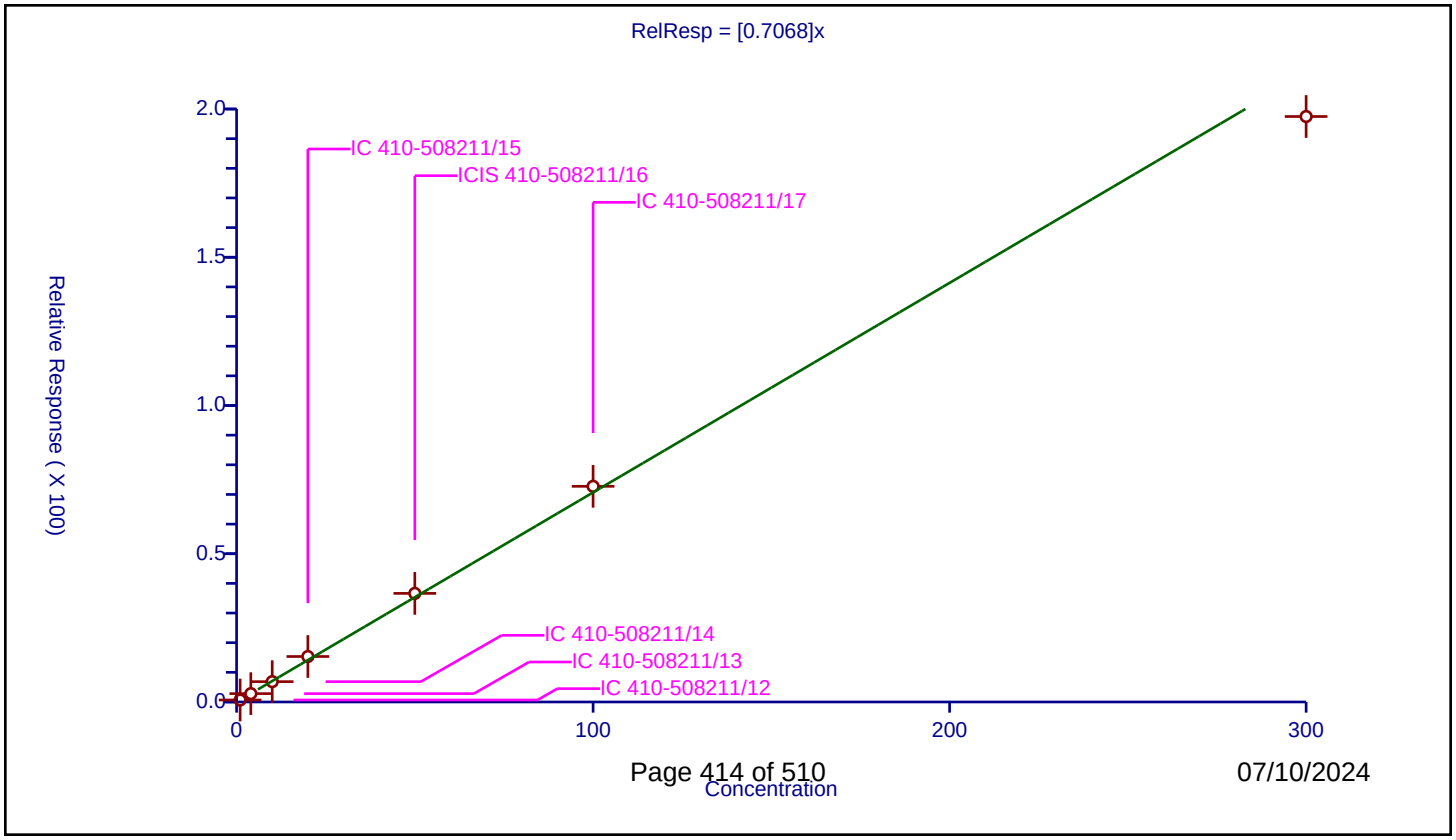
Curve Coefficients

Intercept:	0
Slope:	0.7068

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.67192	50.0	933370.0	0.67192	Y
2	IC 410-508211/13	4.0	2.816357	50.0	925078.0	0.704089	Y
3	IC 410-508211/14	10.0	6.861235	50.0	967100.0	0.686123	Y
4	IC 410-508211/15	20.0	15.340847	50.0	919092.0	0.767042	Y
5	ICIS 410-508211/16	50.0	36.631337	50.0	957938.0	0.732627	Y
6	IC 410-508211/17	100.0	72.742493	50.0	972378.0	0.727425	Y
7	IC 410-508211/18	300.0	197.470954	50.0	1099288.0	0.658237	Y



Calibration / Styrene

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

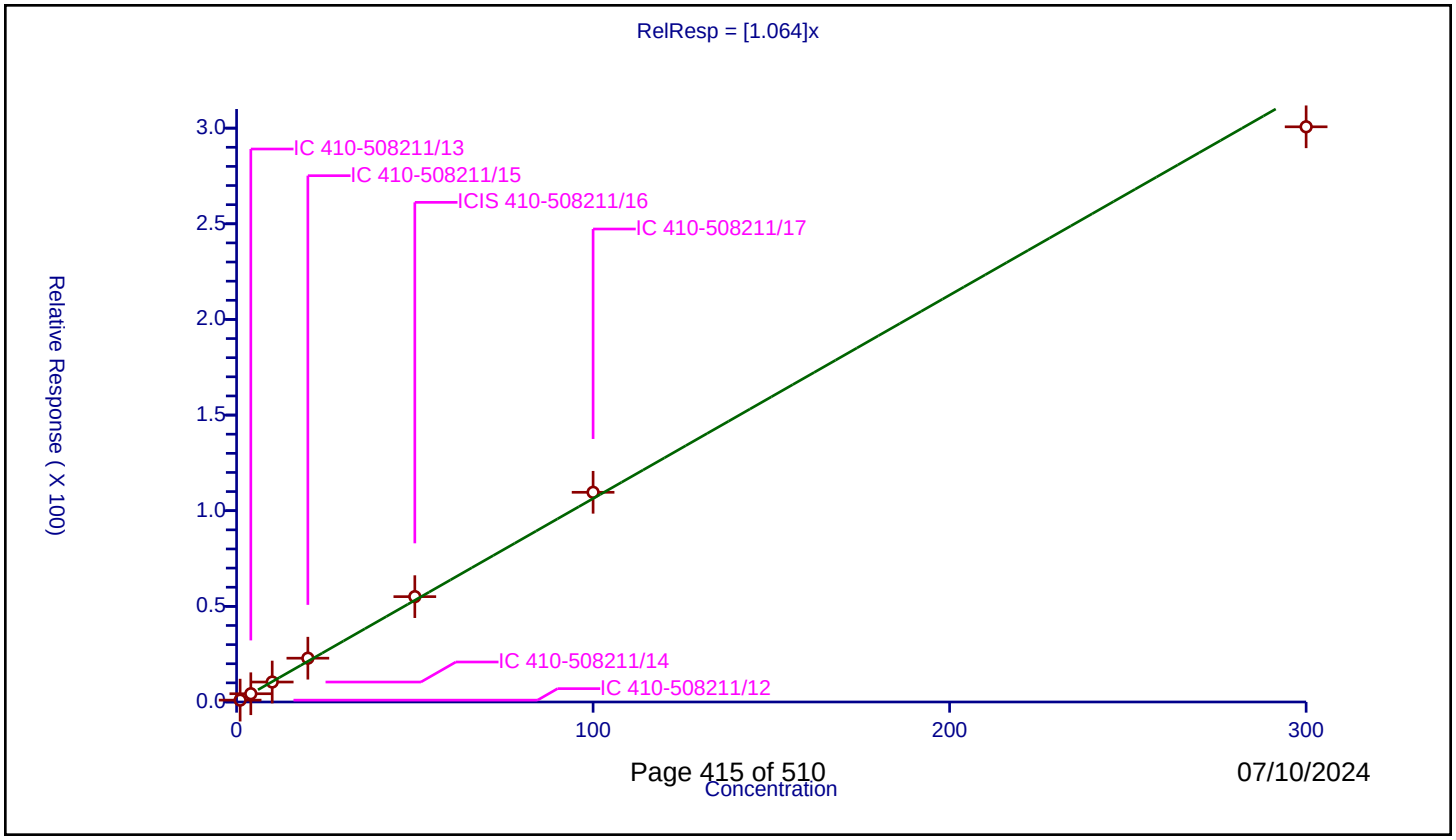
Curve Coefficients

Intercept:	0
Slope:	1.064

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.97539	50.0	933370.0	0.97539	Y
2	IC 410-508211/13	4.0	4.321527	50.0	925078.0	1.080382	Y
3	IC 410-508211/14	10.0	10.441681	50.0	967100.0	1.044168	Y
4	IC 410-508211/15	20.0	22.901189	50.0	919092.0	1.145059	Y
5	ICIS 410-508211/16	50.0	55.068178	50.0	957938.0	1.101364	Y
6	IC 410-508211/17	100.0	109.621053	50.0	972378.0	1.096211	Y
7	IC 410-508211/18	300.0	300.69877	50.0	1099288.0	1.002329	Y



Calibration / Bromoform

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

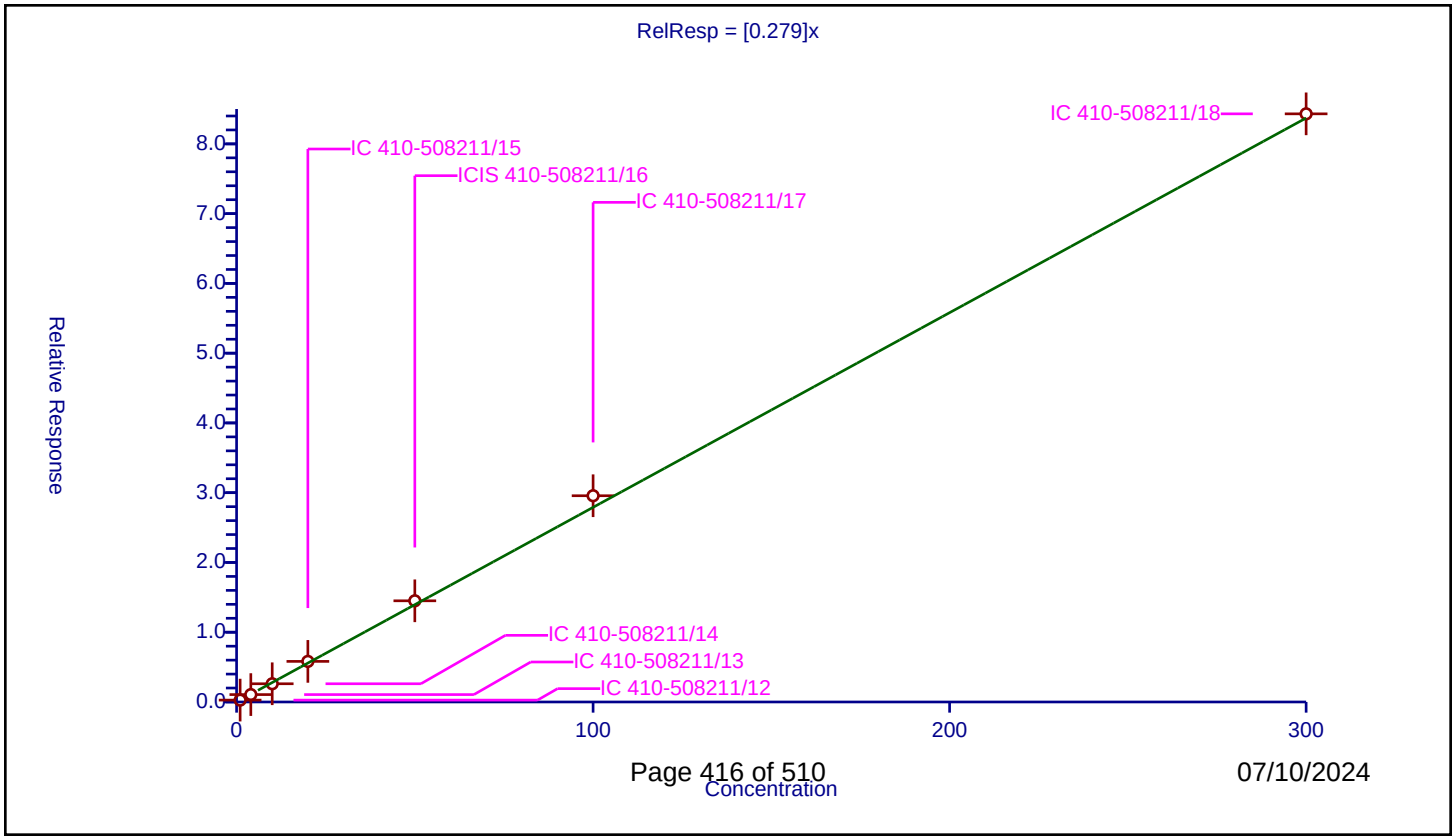
Curve Coefficients

Intercept:	0
Slope:	0.279

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.268757	50.0	933370.0	0.268757	Y
2	IC 410-508211/13	4.0	1.06191	50.0	925078.0	0.265478	Y
3	IC 410-508211/14	10.0	2.610795	50.0	967100.0	0.26108	Y
4	IC 410-508211/15	20.0	5.821452	50.0	919092.0	0.291073	Y
5	ICIS 410-508211/16	50.0	14.505219	50.0	957938.0	0.290104	Y
6	IC 410-508211/17	100.0	29.566691	50.0	972378.0	0.295667	Y
7	IC 410-508211/18	300.0	84.307752	50.0	1099288.0	0.281026	Y



Calibration / Isopropylbenzene

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

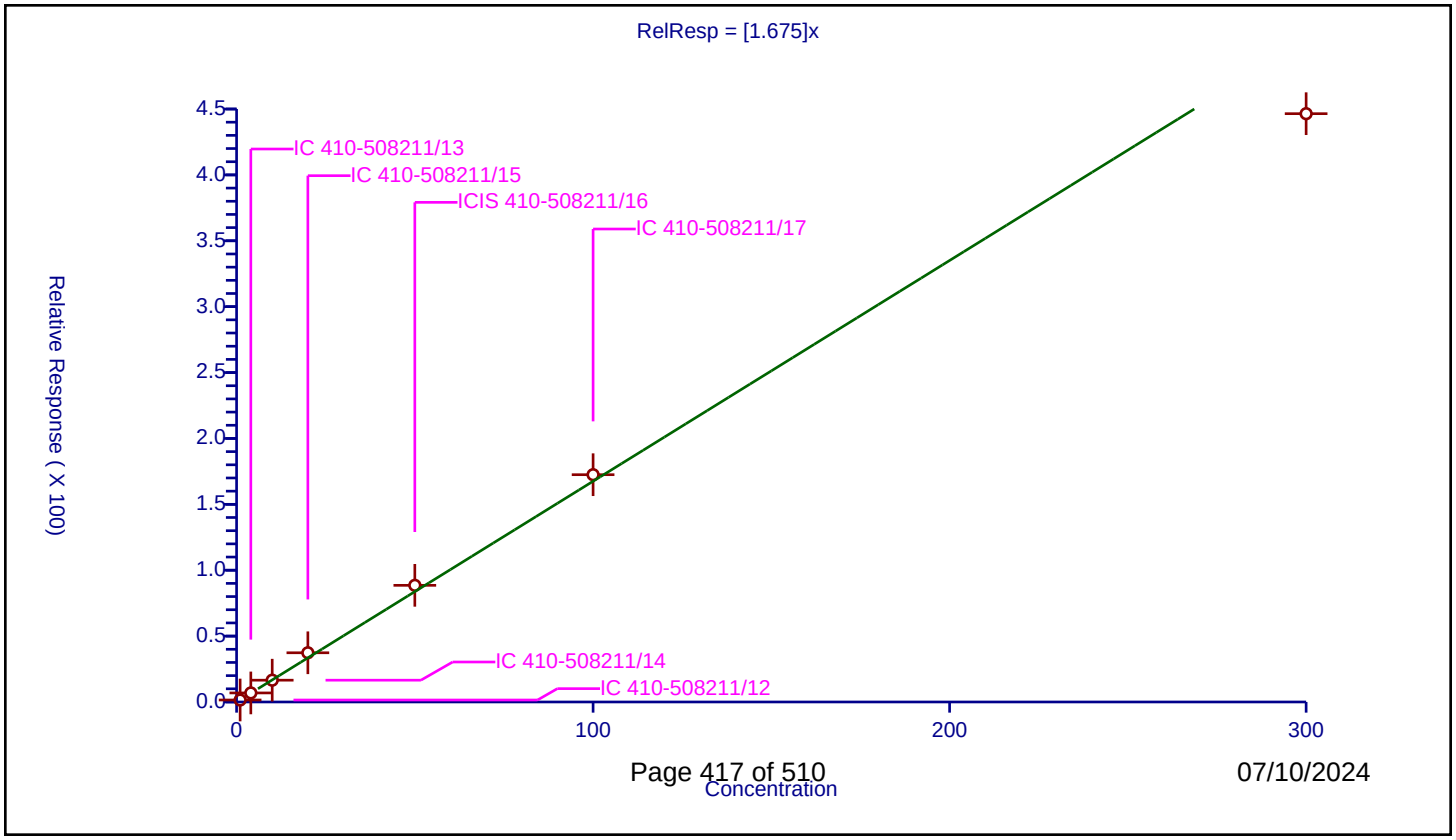
Curve Coefficients

Intercept:	0
Slope:	1.675

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	1.501495	50.0	933370.0	1.501495	Y
2	IC 410-508211/13	4.0	6.879528	50.0	925078.0	1.719882	Y
3	IC 410-508211/14	10.0	16.544825	50.0	967100.0	1.654482	Y
4	IC 410-508211/15	20.0	37.339788	50.0	919092.0	1.866989	Y
5	ICIS 410-508211/16	50.0	88.529581	50.0	957938.0	1.770592	Y
6	IC 410-508211/17	100.0	172.487448	50.0	972378.0	1.724874	Y
7	IC 410-508211/18	300.0	446.453659	50.0	1099288.0	1.488179	Y



Calibration / Cyclohexanone

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

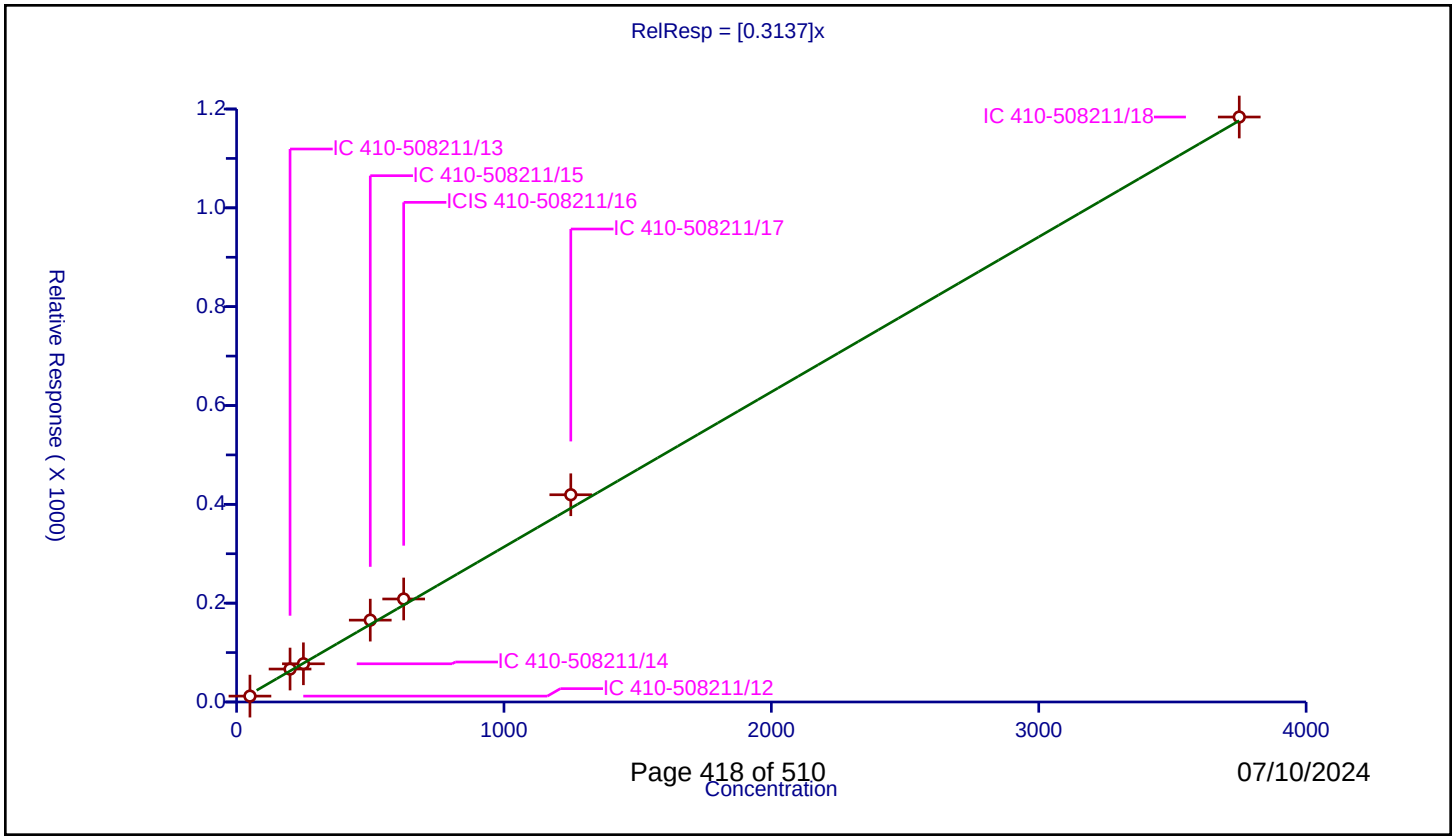
Curve Coefficients

Intercept:	0
Slope:	0.3137

Error Coefficients

Relative Standard Deviation:	11.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	49.998492	11.872729	250.0	610243.0	0.237462	Y
2	IC 410-508211/13	199.993968	66.673105	250.0	566874.0	0.333376	Y
3	IC 410-508211/14	249.99246	77.308058	250.0	617662.0	0.309242	Y
4	IC 410-508211/15	499.98492	165.648415	250.0	573614.0	0.331307	Y
5	ICIS 410-508211/16	624.98115	208.466509	250.0	572863.0	0.333556	Y
6	IC 410-508211/17	1249.9623	419.407271	250.0	559244.0	0.335536	Y
7	IC 410-508211/18	3749.8869	1183.819875	250.0	589501.0	0.315695	Y



Calibration / 4-Bromofluorobenzene (Surr)

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

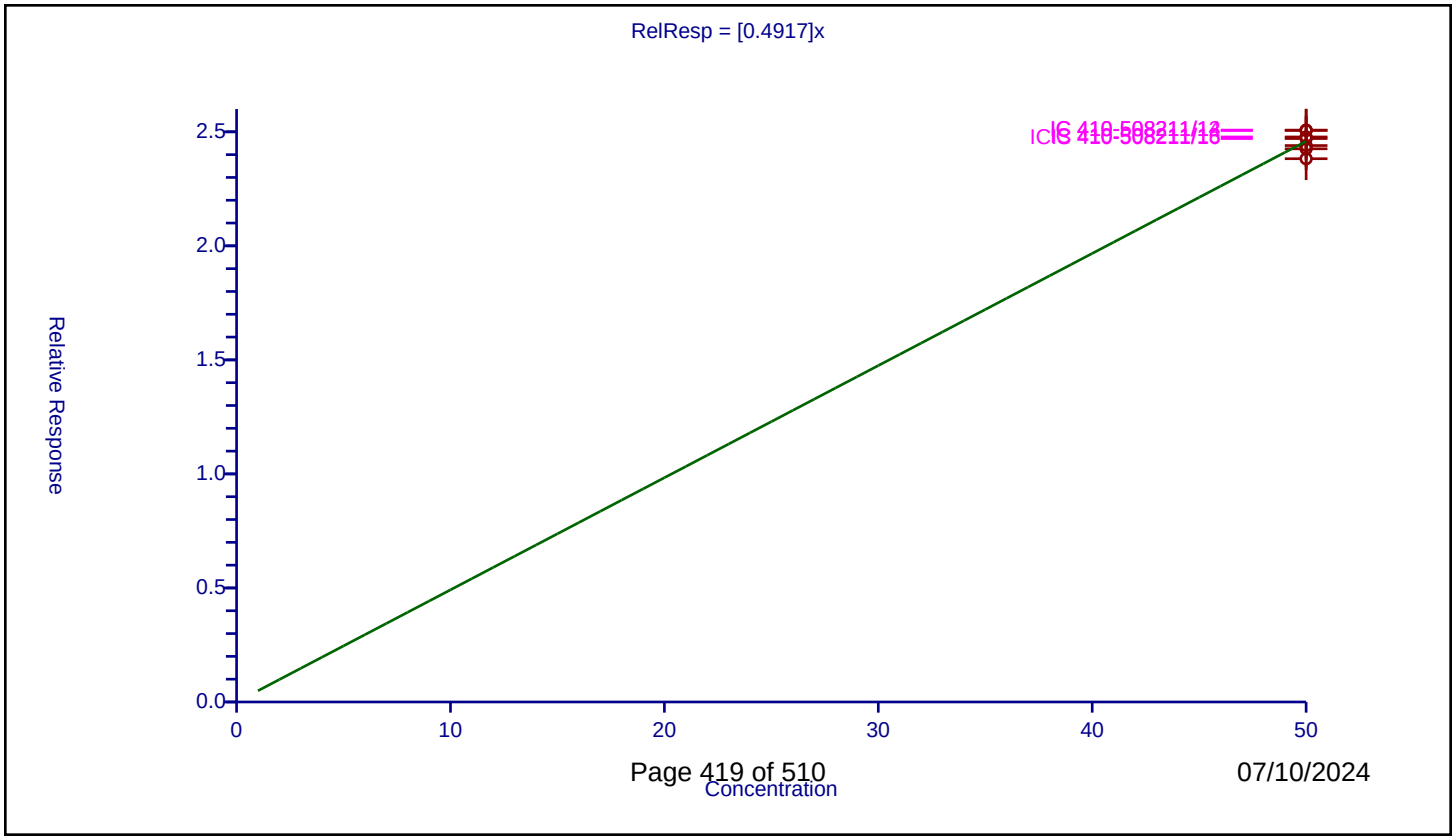
Curve Coefficients

Intercept:	0
Slope:	0.4917

Error Coefficients

Relative Standard Deviation:	1.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	50.0	25.075318	50.0	933370.0	0.501506	Y
2	IC 410-508211/13	50.0	24.775046	50.0	925078.0	0.495501	Y
3	IC 410-508211/14	50.0	25.060749	50.0	967100.0	0.501215	Y
4	IC 410-508211/15	50.0	24.397721	50.0	919092.0	0.487954	Y
5	ICIS 410-508211/16	50.0	24.704365	50.0	957938.0	0.494087	Y
6	IC 410-508211/17	50.0	23.820675	50.0	972378.0	0.476413	Y
7	IC 410-508211/18	50.0	24.255336	50.0	1099288.0	0.485107	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

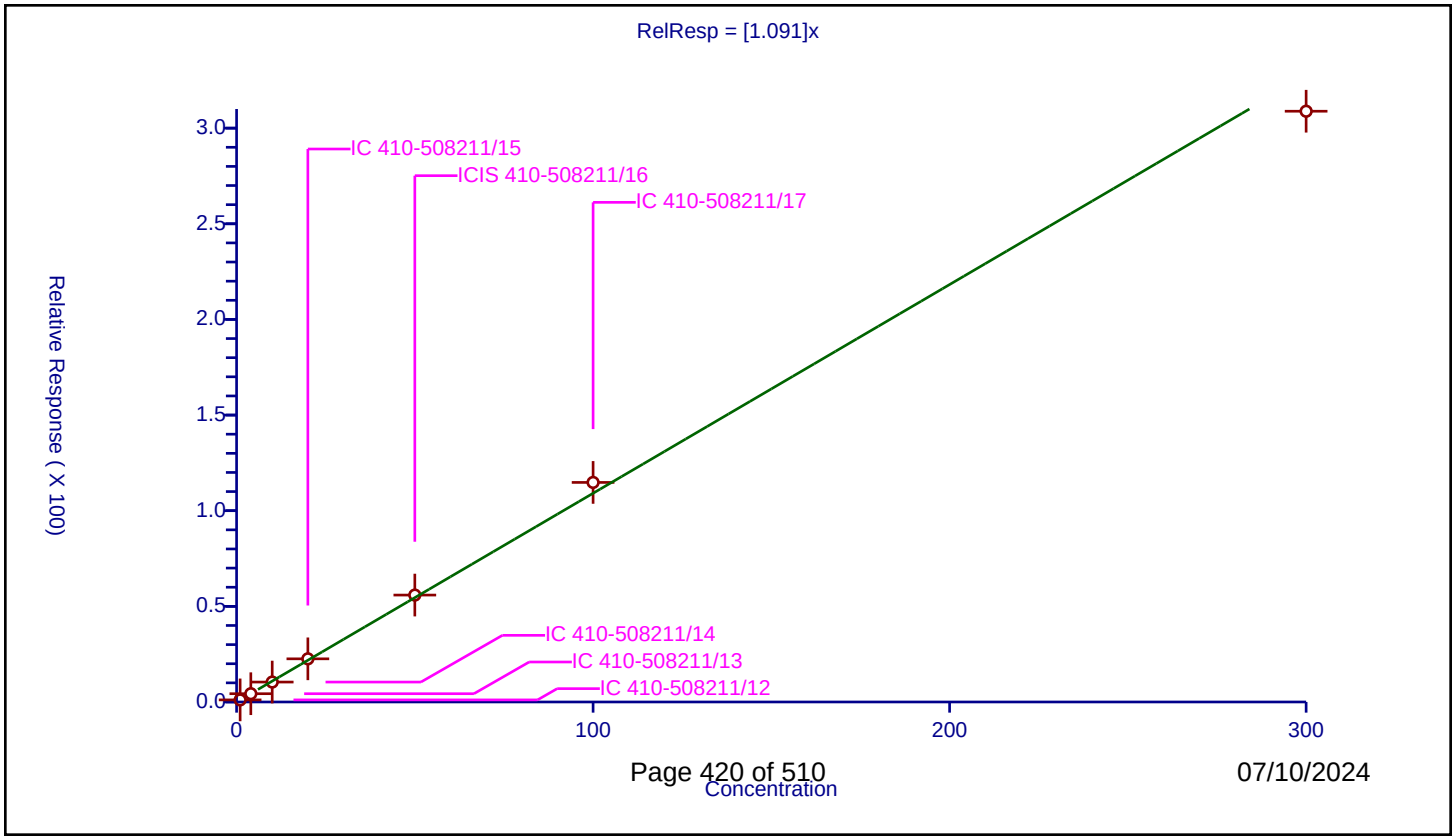
Curve Coefficients

Intercept:	0
Slope:	1.091

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	1.089895	50.0	556751.0	1.089895	Y
2	IC 410-508211/13	4.0	4.333902	50.0	563303.0	1.083476	Y
3	IC 410-508211/14	10.0	10.415715	50.0	588649.0	1.041571	Y
4	IC 410-508211/15	20.0	22.560032	50.0	549454.0	1.128002	Y
5	ICIS 410-508211/16	50.0	55.899682	50.0	556513.0	1.117994	Y
6	IC 410-508211/17	100.0	114.778289	50.0	545530.0	1.147783	Y
7	IC 410-508211/18	300.0	308.846067	50.0	621977.0	1.029487	Y



Calibration / Bromobenzene

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

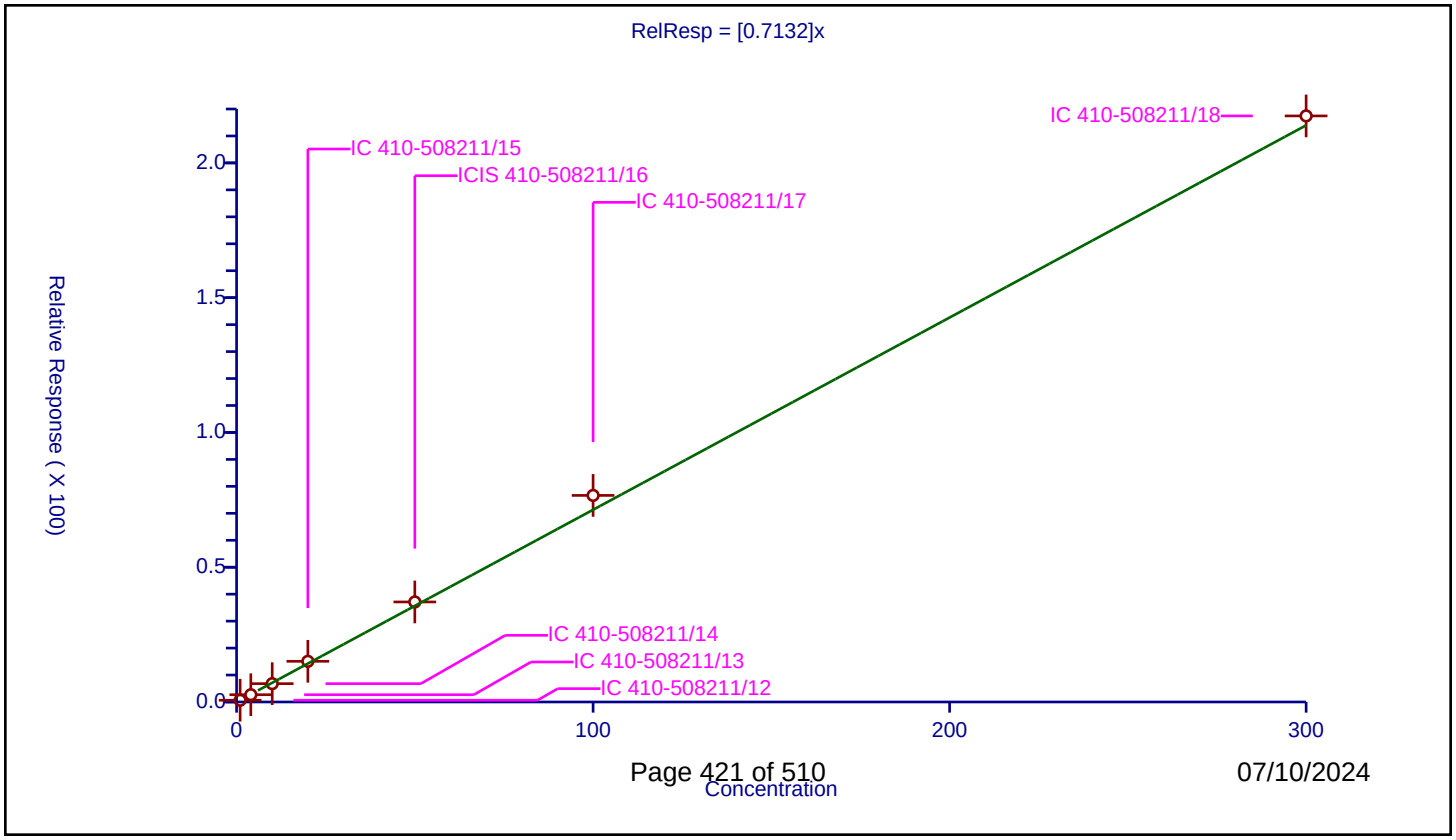
Curve Coefficients

Intercept:	0
Slope:	0.7132

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.65047	50.0	556751.0	0.65047	Y
2	IC 410-508211/13	4.0	2.694376	50.0	563303.0	0.673594	Y
3	IC 410-508211/14	10.0	6.797005	50.0	588649.0	0.6797	Y
4	IC 410-508211/15	20.0	15.097442	50.0	549454.0	0.754872	Y
5	ICIS 410-508211/16	50.0	37.11279	50.0	556513.0	0.742256	Y
6	IC 410-508211/17	100.0	76.636574	50.0	545530.0	0.766366	Y
7	IC 410-508211/18	300.0	217.438748	50.0	621977.0	0.724796	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

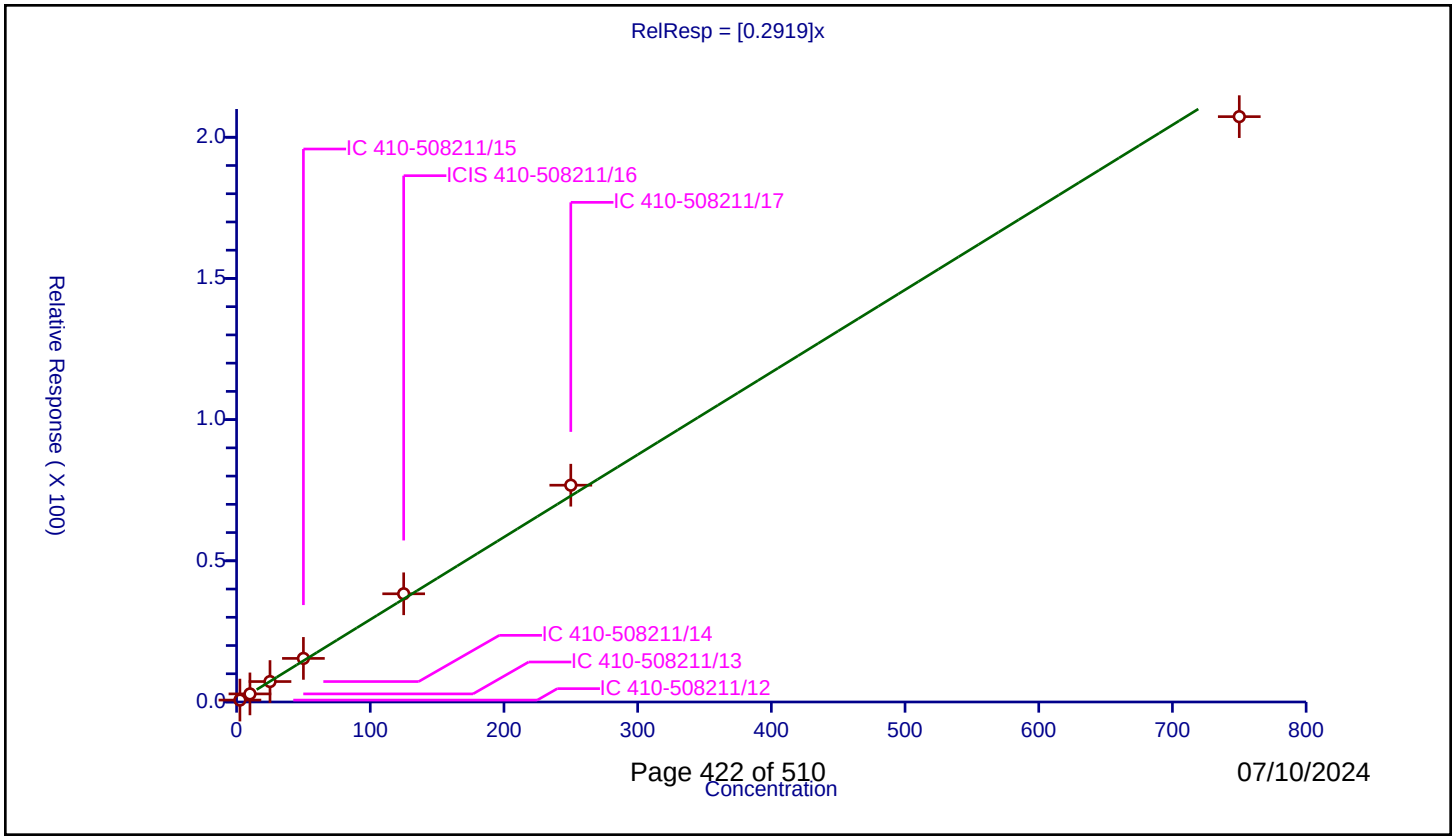
Curve Coefficients

Intercept:	0
Slope:	0.2919

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	2.5	0.671844	50.0	556751.0	0.268738	Y
2	IC 410-508211/13	10.0	2.86471	50.0	563303.0	0.286471	Y
3	IC 410-508211/14	25.0	7.238354	50.0	588649.0	0.289534	Y
4	IC 410-508211/15	50.0	15.43505	50.0	549454.0	0.308701	Y
5	ICIS 410-508211/16	125.0	38.314918	50.0	556513.0	0.306519	Y
6	IC 410-508211/17	250.0	76.776071	50.0	545530.0	0.307104	Y
7	IC 410-508211/18	750.0	207.301235	50.0	621977.0	0.276402	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

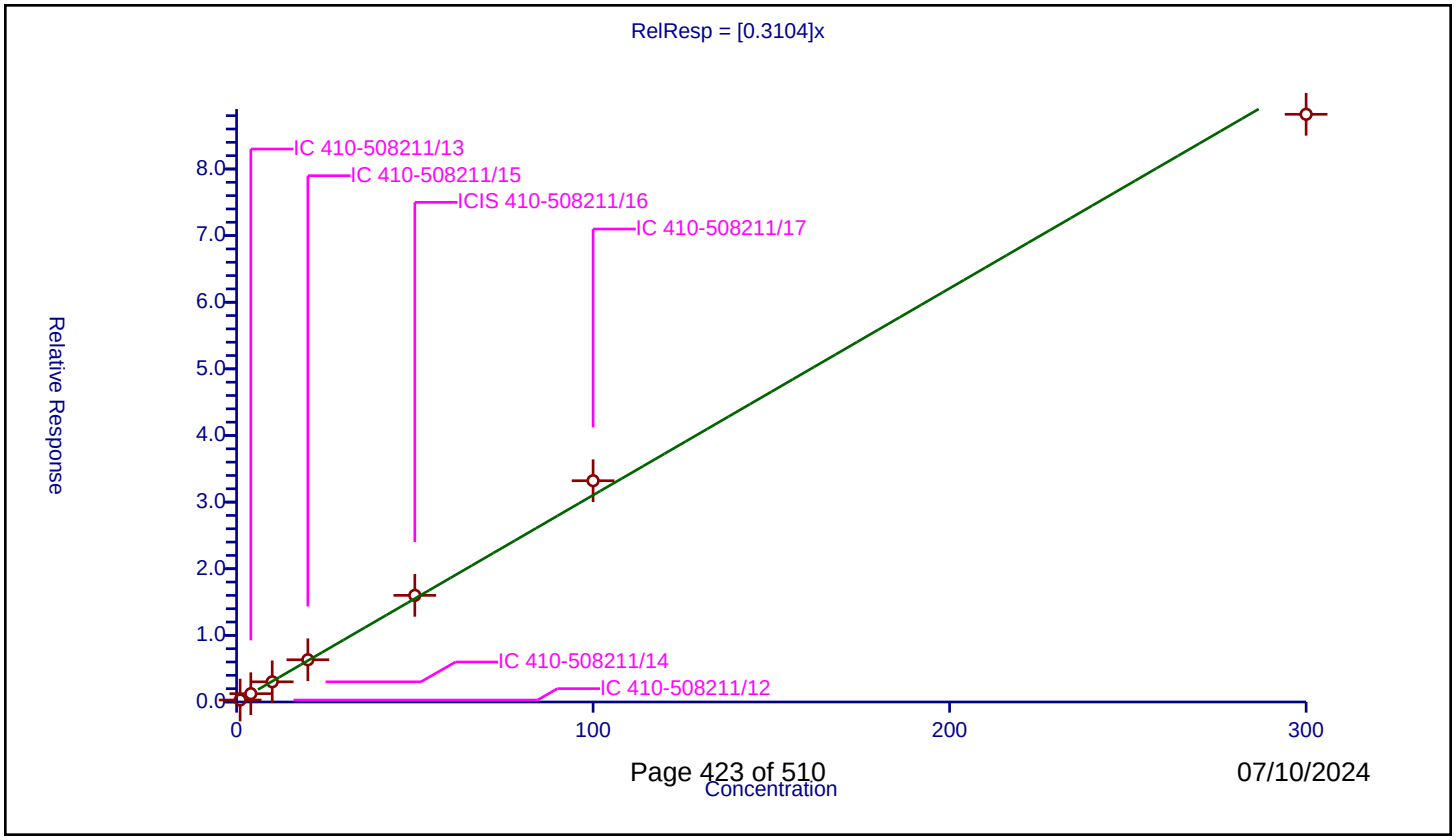
Curve Coefficients

Intercept:	0
Slope:	0.3104

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.295195	50.0	556751.0	0.295195	Y
2	IC 410-508211/13	4.0	1.246754	50.0	563303.0	0.311688	Y
3	IC 410-508211/14	10.0	3.029734	50.0	588649.0	0.302973	Y
4	IC 410-508211/15	20.0	6.337655	50.0	549454.0	0.316883	Y
5	ICIS 410-508211/16	50.0	16.004927	50.0	556513.0	0.320099	Y
6	IC 410-508211/17	100.0	33.210089	50.0	545530.0	0.332101	Y
7	IC 410-508211/18	300.0	88.207603	50.0	621977.0	0.294025	Y



Calibration / N-Propylbenzene

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

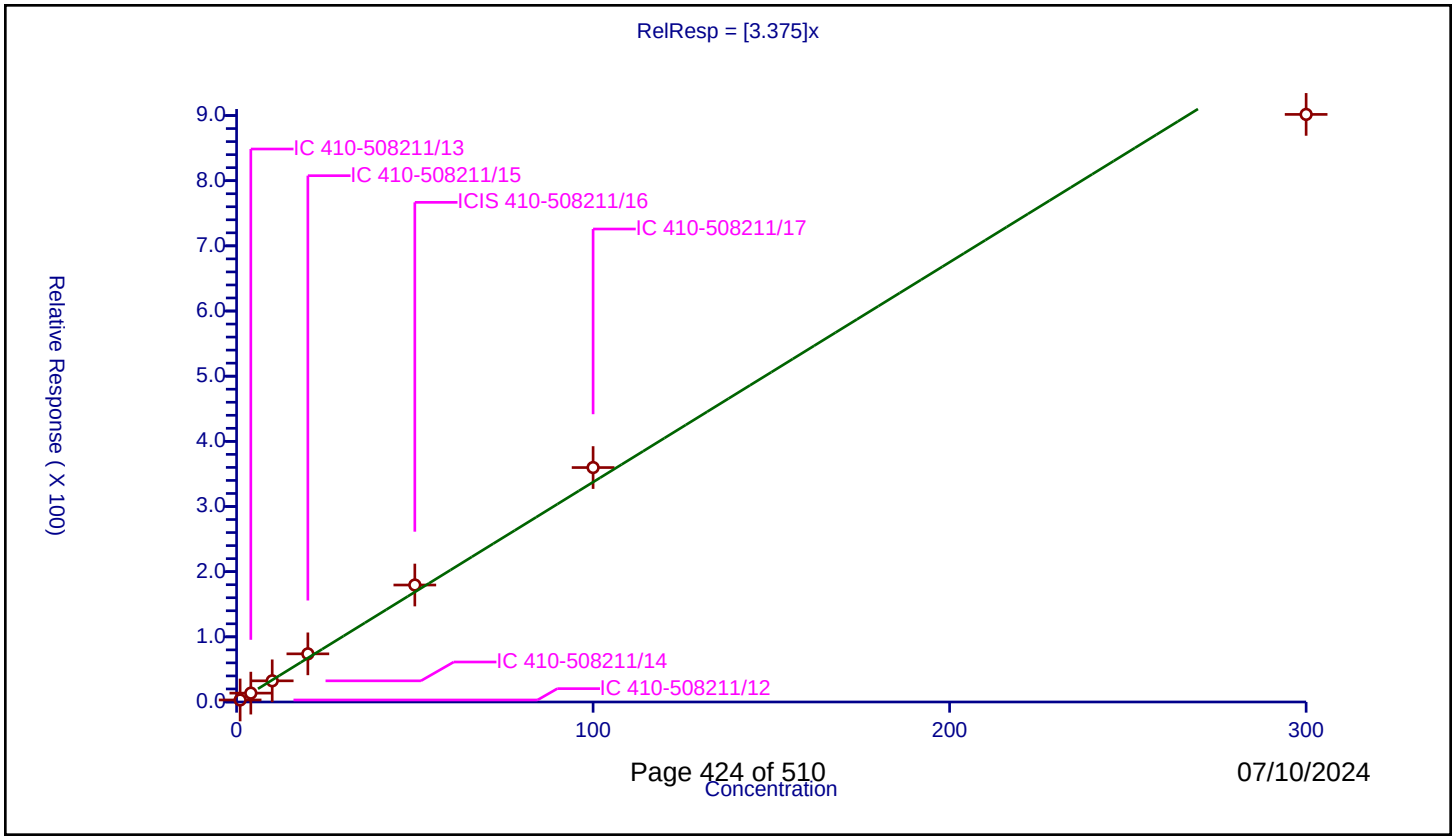
Curve Coefficients

Intercept:	0
Slope:	3.375

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	3.086119	50.0	556751.0	3.086119	Y
2	IC 410-508211/13	4.0	13.600851	50.0	563303.0	3.400213	Y
3	IC 410-508211/14	10.0	32.474701	50.0	588649.0	3.24747	Y
4	IC 410-508211/15	20.0	73.880161	50.0	549454.0	3.694008	Y
5	ICIS 410-508211/16	50.0	179.515303	50.0	556513.0	3.590306	Y
6	IC 410-508211/17	100.0	359.785621	50.0	545530.0	3.597856	Y
7	IC 410-508211/18	300.0	901.720803	50.0	621977.0	3.005736	Y



Calibration / 2-Chlorotoluene

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

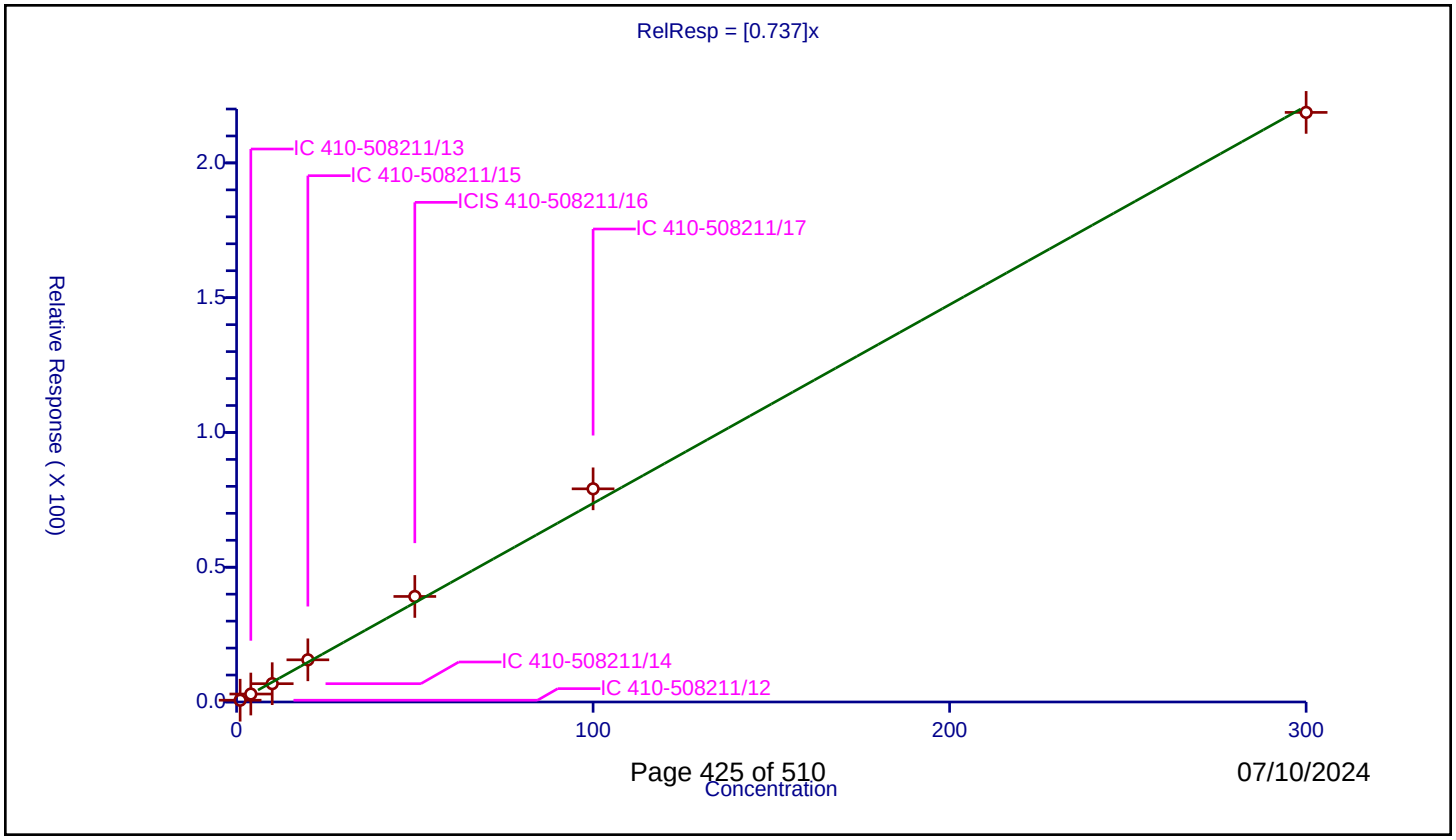
Curve Coefficients

Intercept:	0
Slope:	0.737

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.654871	50.0	556751.0	0.654871	Y
2	IC 410-508211/13	4.0	2.957112	50.0	563303.0	0.739278	Y
3	IC 410-508211/14	10.0	6.794796	50.0	588649.0	0.67948	Y
4	IC 410-508211/15	20.0	15.648626	50.0	549454.0	0.782431	Y
5	ICIS 410-508211/16	50.0	39.158384	50.0	556513.0	0.783168	Y
6	IC 410-508211/17	100.0	79.089143	50.0	545530.0	0.790891	Y
7	IC 410-508211/18	300.0	218.739198	50.0	621977.0	0.729131	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

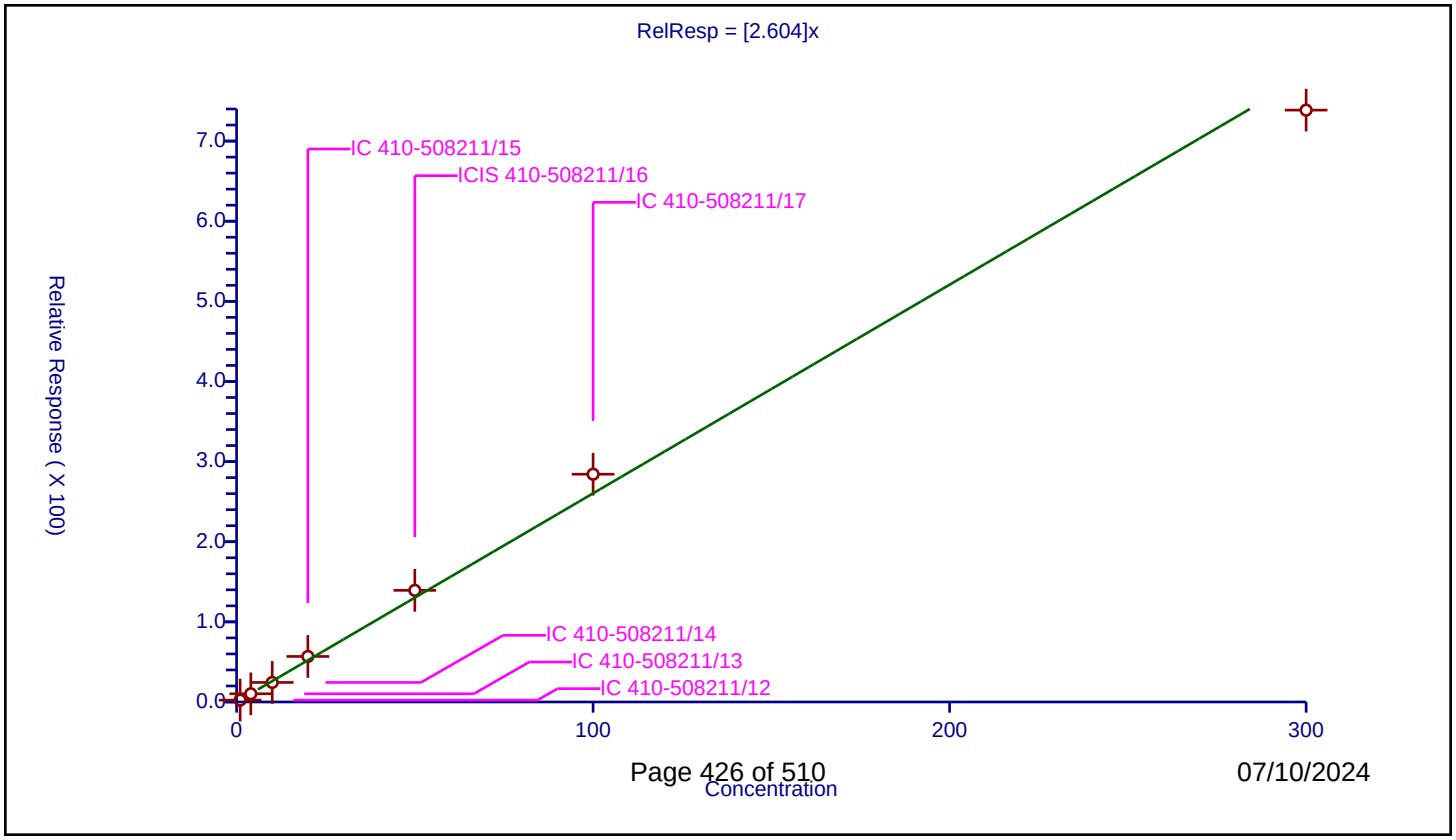
Curve Coefficients

Intercept:	0
Slope:	2.604

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	2.298065	50.0	556751.0	2.298065	Y
2	IC 410-508211/13	4.0	10.243155	50.0	563303.0	2.560789	Y
3	IC 410-508211/14	10.0	24.36367	50.0	588649.0	2.436367	Y
4	IC 410-508211/15	20.0	56.808668	50.0	549454.0	2.840433	Y
5	ICIS 410-508211/16	50.0	139.308875	50.0	556513.0	2.786178	Y
6	IC 410-508211/17	100.0	284.250362	50.0	545530.0	2.842504	Y
7	IC 410-508211/18	300.0	738.621123	50.0	621977.0	2.46207	Y



Calibration / 4-Chlorotoluene

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

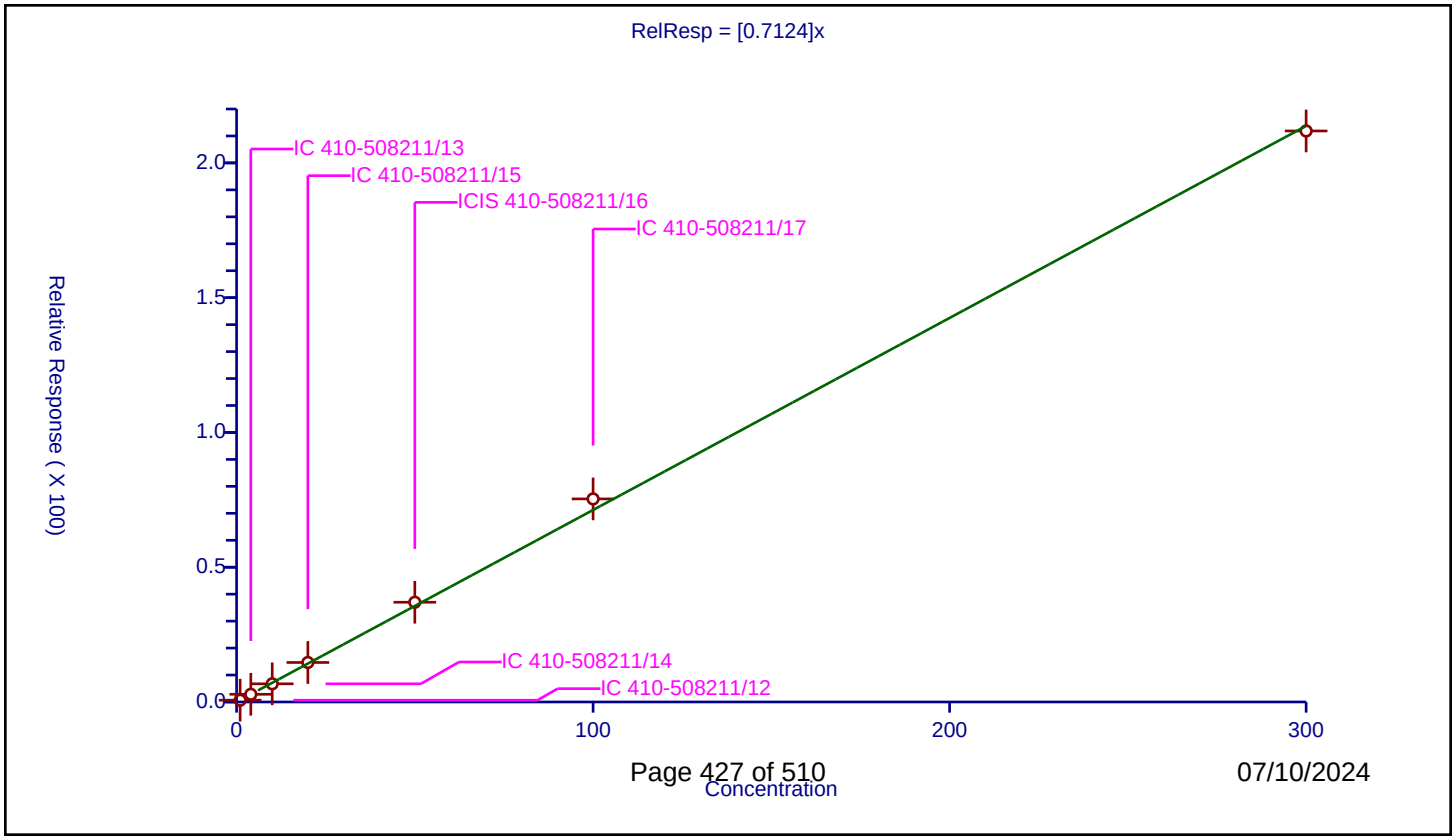
Curve Coefficients

Intercept:	0
Slope:	0.7124

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.666186	50.0	556751.0	0.666186	Y
2	IC 410-508211/13	4.0	2.856633	50.0	563303.0	0.714158	Y
3	IC 410-508211/14	10.0	6.740604	50.0	588649.0	0.67406	Y
4	IC 410-508211/15	20.0	14.65291	50.0	549454.0	0.732645	Y
5	ICIS 410-508211/16	50.0	37.004257	50.0	556513.0	0.740085	Y
6	IC 410-508211/17	100.0	75.340861	50.0	545530.0	0.753409	Y
7	IC 410-508211/18	300.0	211.860165	50.0	621977.0	0.706201	Y



Calibration / tert-Butylbenzene

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

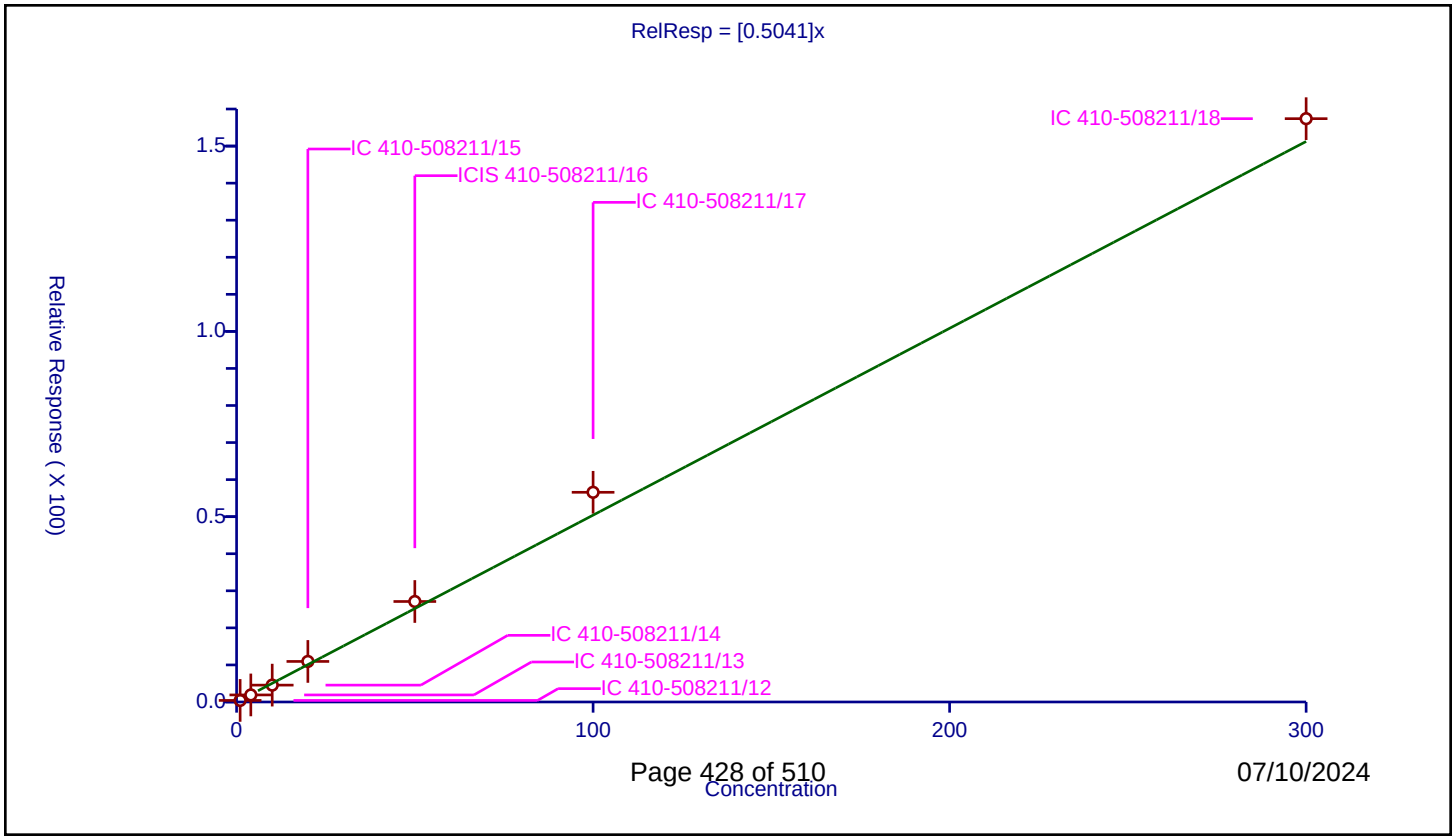
Curve Coefficients

Intercept:	0
Slope:	0.5041

Error Coefficients

Relative Standard Deviation:	10.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.418769	50.0	556751.0	0.418769	Y
2	IC 410-508211/13	4.0	1.899866	50.0	563303.0	0.474966	Y
3	IC 410-508211/14	10.0	4.553393	50.0	588649.0	0.455339	Y
4	IC 410-508211/15	20.0	10.943773	50.0	549454.0	0.547189	Y
5	ICIS 410-508211/16	50.0	27.11491	50.0	556513.0	0.542298	Y
6	IC 410-508211/17	100.0	56.583323	50.0	545530.0	0.565833	Y
7	IC 410-508211/18	300.0	157.391833	50.0	621977.0	0.524639	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

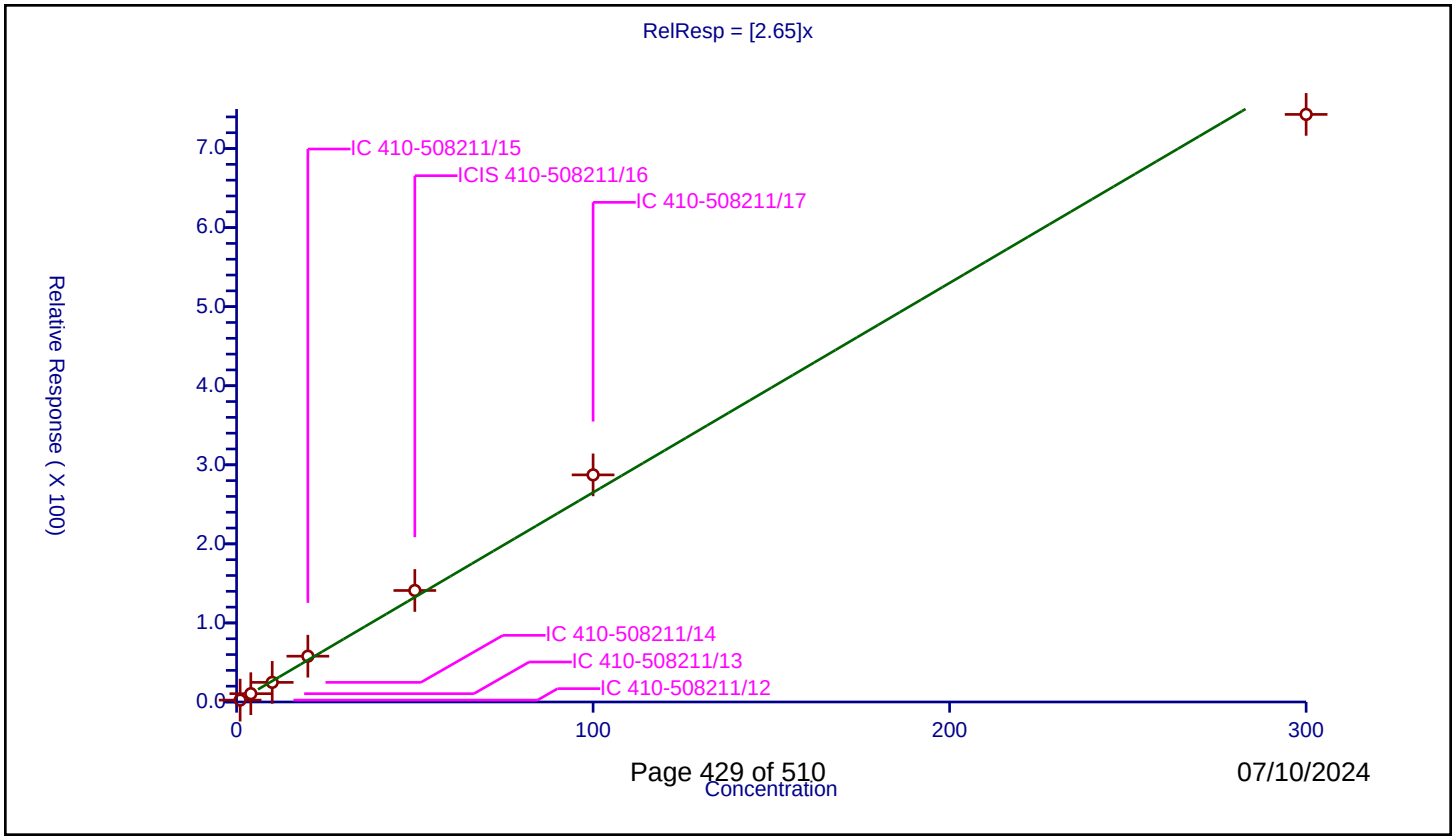
Curve Coefficients

Intercept:	0
Slope:	2.65

Error Coefficients

Relative Standard Deviation:	8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	2.373952	50.0	556751.0	2.373952	Y
2	IC 410-508211/13	4.0	10.509264	50.0	563303.0	2.627316	Y
3	IC 410-508211/14	10.0	24.817336	50.0	588649.0	2.481734	Y
4	IC 410-508211/15	20.0	57.942794	50.0	549454.0	2.89714	Y
5	ICIS 410-508211/16	50.0	141.025367	50.0	556513.0	2.820507	Y
6	IC 410-508211/17	100.0	287.25478	50.0	545530.0	2.872548	Y
7	IC 410-508211/18	300.0	743.199829	50.0	621977.0	2.477333	Y



Calibration / sec-Butylbenzene

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

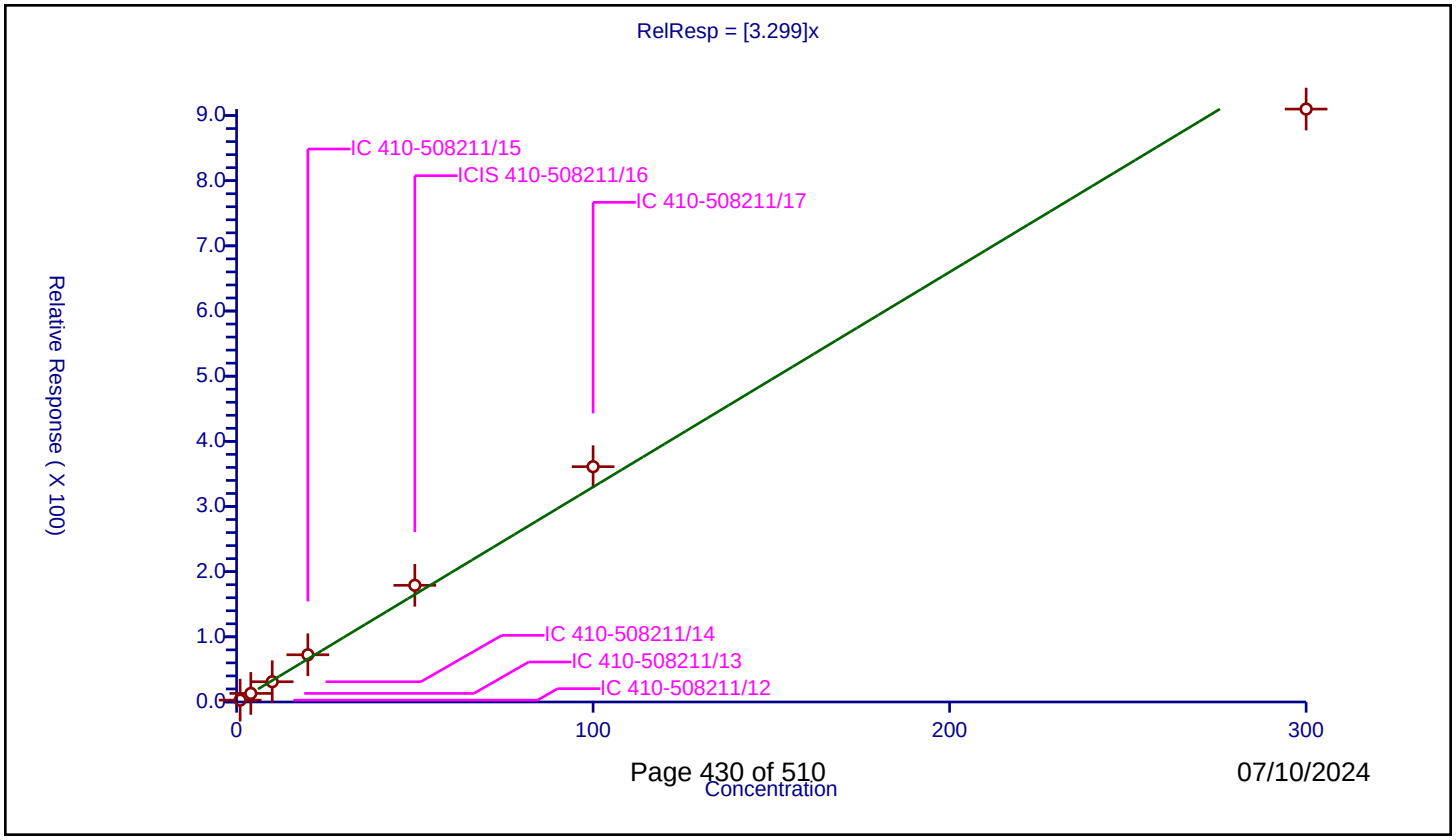
Curve Coefficients

Intercept:	0
Slope:	3.299

Error Coefficients

Relative Standard Deviation:	9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	2.847413	50.0	556751.0	2.847413	Y
2	IC 410-508211/13	4.0	13.154554	50.0	563303.0	3.288639	Y
3	IC 410-508211/14	10.0	31.092043	50.0	588649.0	3.109204	Y
4	IC 410-508211/15	20.0	72.437001	50.0	549454.0	3.62185	Y
5	ICIS 410-508211/16	50.0	179.081351	50.0	556513.0	3.581627	Y
6	IC 410-508211/17	100.0	361.125603	50.0	545530.0	3.611256	Y
7	IC 410-508211/18	300.0	909.928663	50.0	621977.0	3.033096	Y



Calibration / 1,3-Dichlorobenzene

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

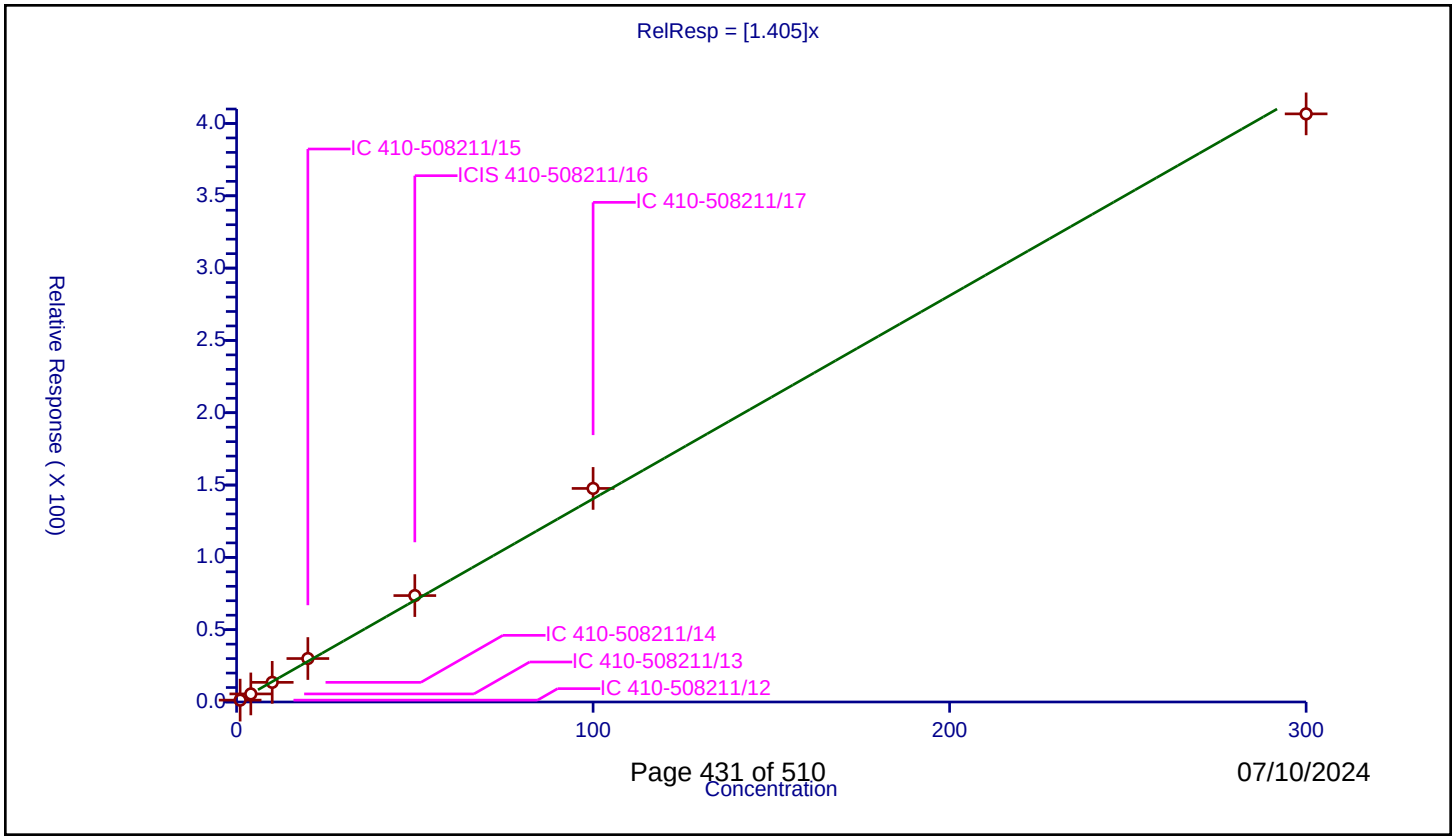
Curve Coefficients

Intercept:	0
Slope:	1.405

Error Coefficients

Relative Standard Deviation:	5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	1.276244	50.0	556751.0	1.276244	Y
2	IC 410-508211/13	4.0	5.571957	50.0	563303.0	1.392989	Y
3	IC 410-508211/14	10.0	13.587809	50.0	588649.0	1.358781	Y
4	IC 410-508211/15	20.0	30.044826	50.0	549454.0	1.502241	Y
5	ICIS 410-508211/16	50.0	73.570788	50.0	556513.0	1.471416	Y
6	IC 410-508211/17	100.0	147.655766	50.0	545530.0	1.476558	Y
7	IC 410-508211/18	300.0	406.652014	50.0	621977.0	1.355507	Y



Calibration / 4-Isopropyltoluene

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

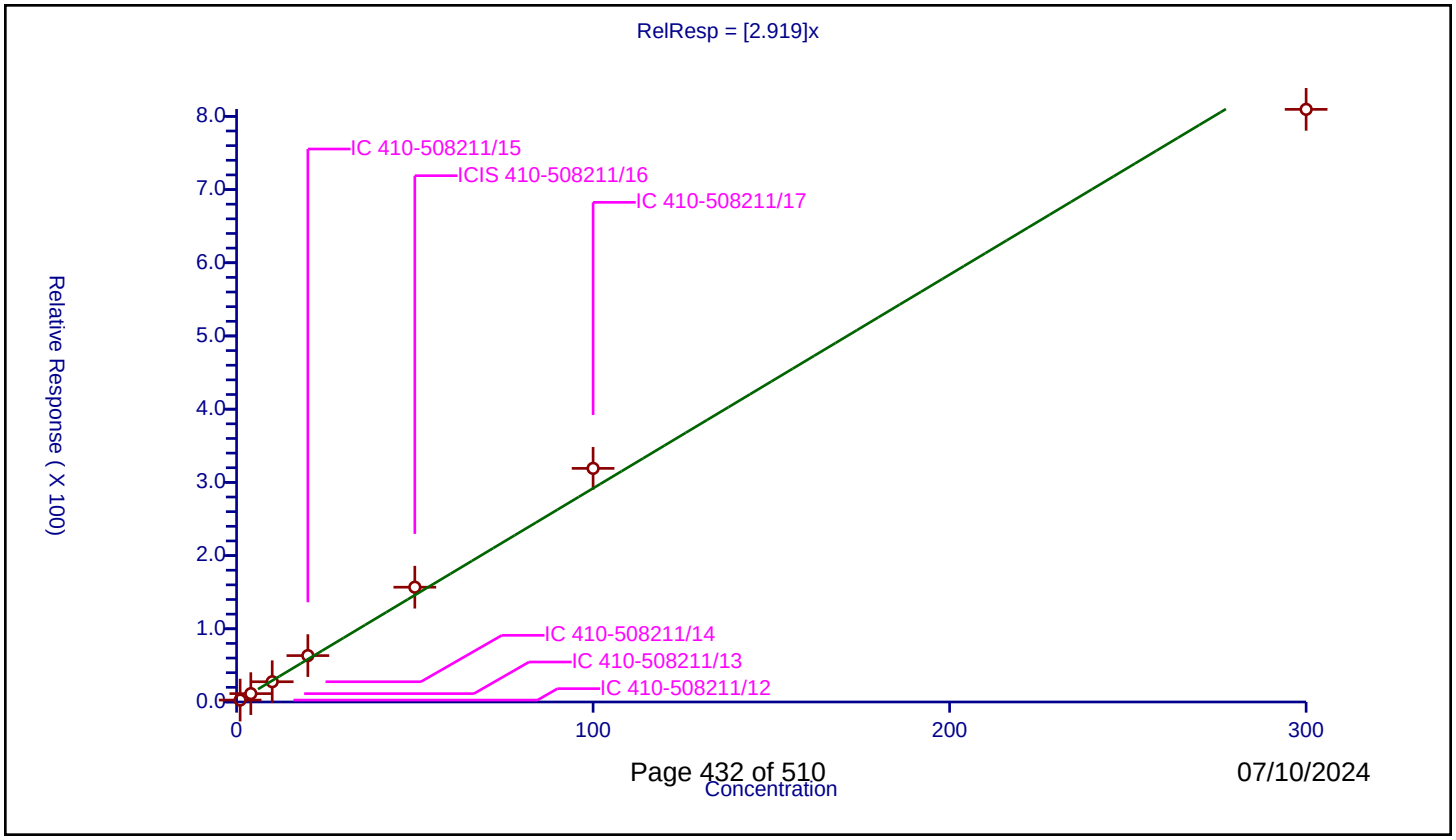
Curve Coefficients

Intercept:	0
Slope:	2.919

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	2.613107	50.0	556751.0	2.613107	Y
2	IC 410-508211/13	4.0	11.429817	50.0	563303.0	2.857454	Y
3	IC 410-508211/14	10.0	27.674556	50.0	588649.0	2.767456	Y
4	IC 410-508211/15	20.0	63.371547	50.0	549454.0	3.168577	Y
5	ICIS 410-508211/16	50.0	156.792654	50.0	556513.0	3.135853	Y
6	IC 410-508211/17	100.0	319.105824	50.0	545530.0	3.191058	Y
7	IC 410-508211/18	300.0	809.542877	50.0	621977.0	2.698476	Y



Calibration / 1,4-Dichlorobenzene

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

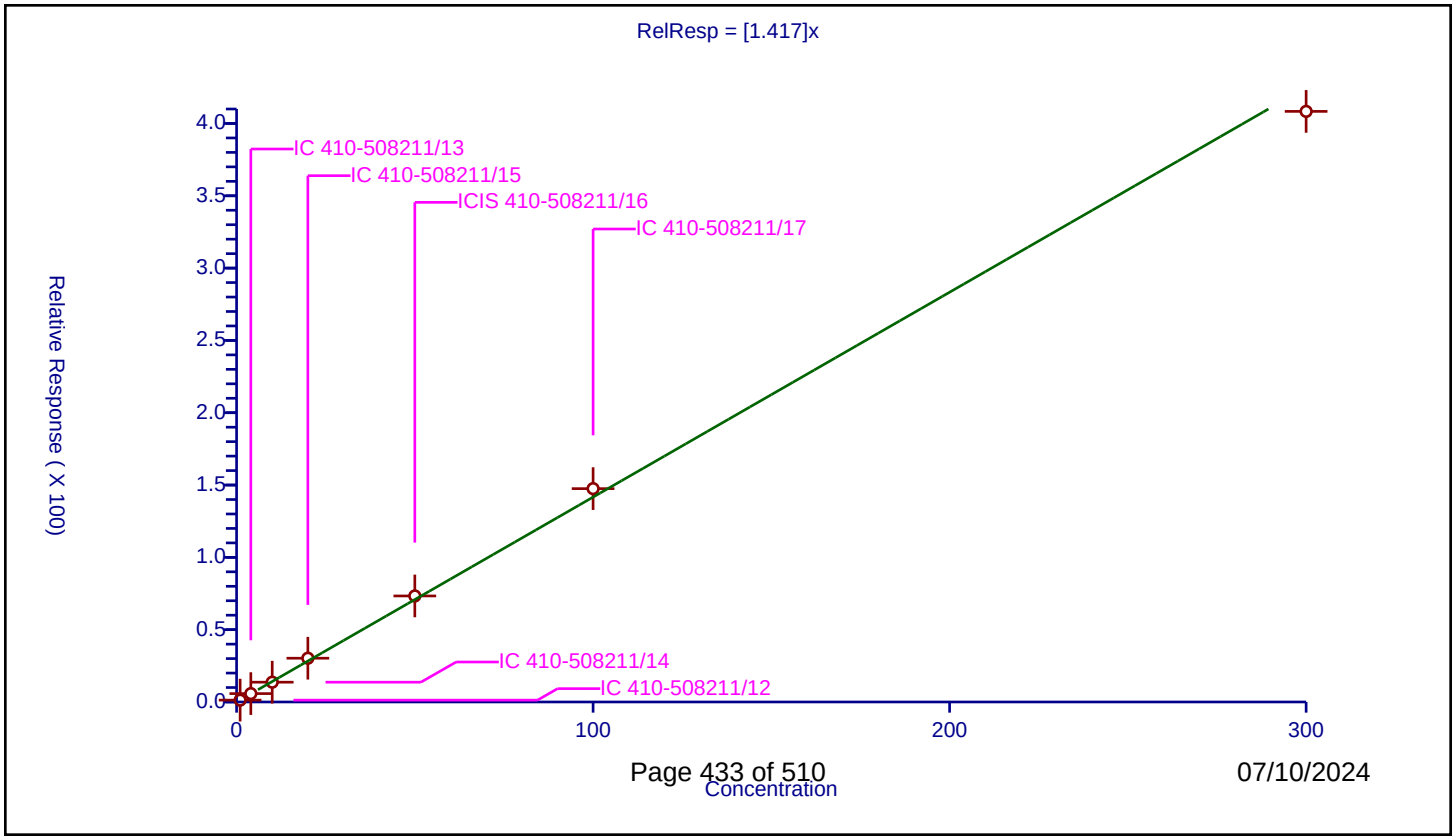
Curve Coefficients

Intercept:	0
Slope:	1.417

Error Coefficients

Relative Standard Deviation:	5.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	1.281273	50.0	556751.0	1.281273	Y
2	IC 410-508211/13	4.0	5.797857	50.0	563303.0	1.449464	Y
3	IC 410-508211/14	10.0	13.686679	50.0	588649.0	1.368668	Y
4	IC 410-508211/15	20.0	30.275419	50.0	549454.0	1.513771	Y
5	ICIS 410-508211/16	50.0	73.324343	50.0	556513.0	1.466487	Y
6	IC 410-508211/17	100.0	147.523326	50.0	545530.0	1.475233	Y
7	IC 410-508211/18	300.0	408.363171	50.0	621977.0	1.361211	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

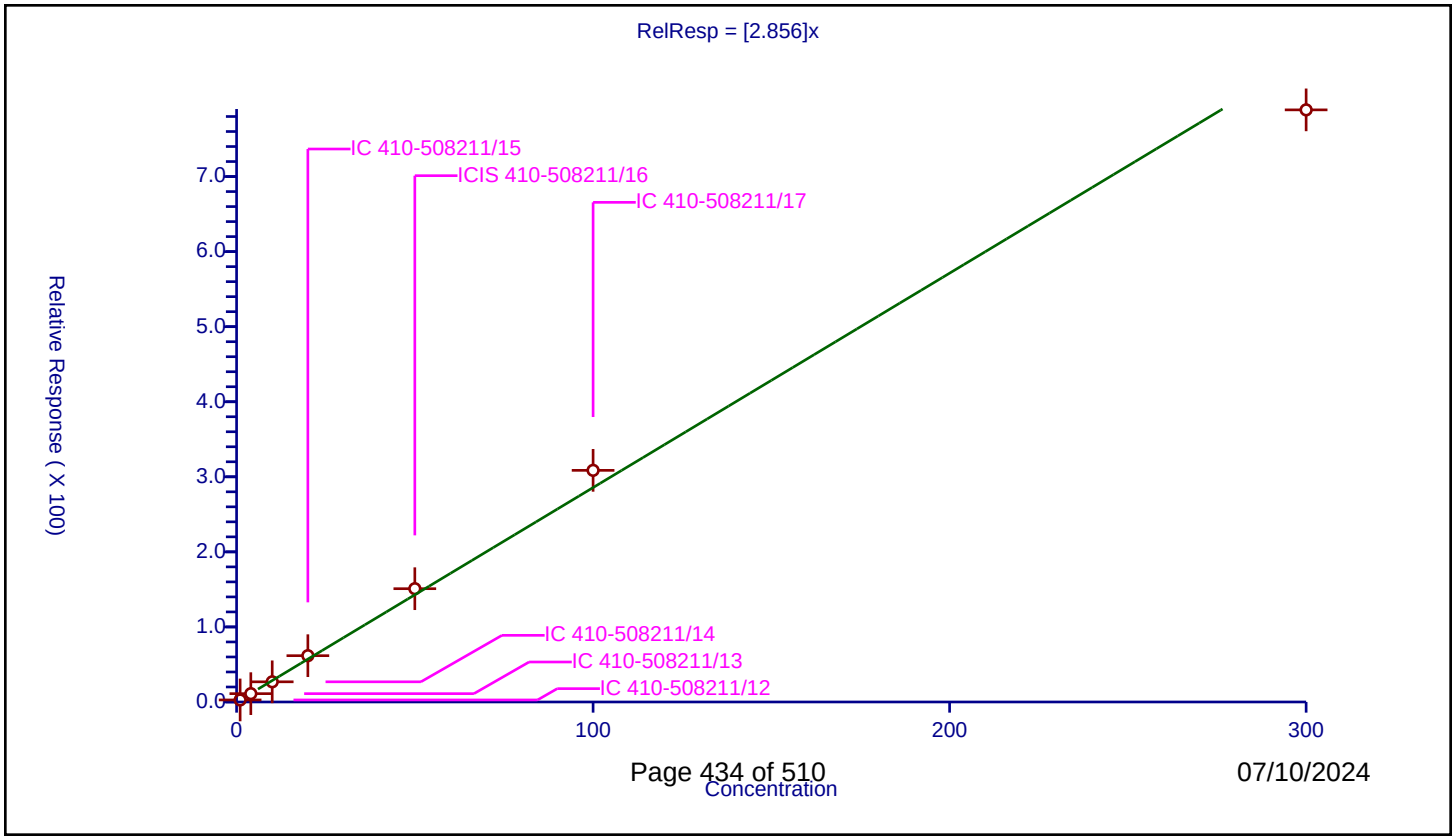
Curve Coefficients

Intercept:	0
Slope:	2.856

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	2.714409	50.0	556751.0	2.714409	Y
2	IC 410-508211/13	4.0	11.098911	50.0	563303.0	2.774728	Y
3	IC 410-508211/14	10.0	26.868898	50.0	588649.0	2.68689	Y
4	IC 410-508211/15	20.0	61.698341	50.0	549454.0	3.084917	Y
5	ICIS 410-508211/16	50.0	150.942476	50.0	556513.0	3.01885	Y
6	IC 410-508211/17	100.0	308.615017	50.0	545530.0	3.08615	Y
7	IC 410-508211/18	300.0	788.865344	50.0	621977.0	2.629551	Y



Calibration / Benzyl chloride

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

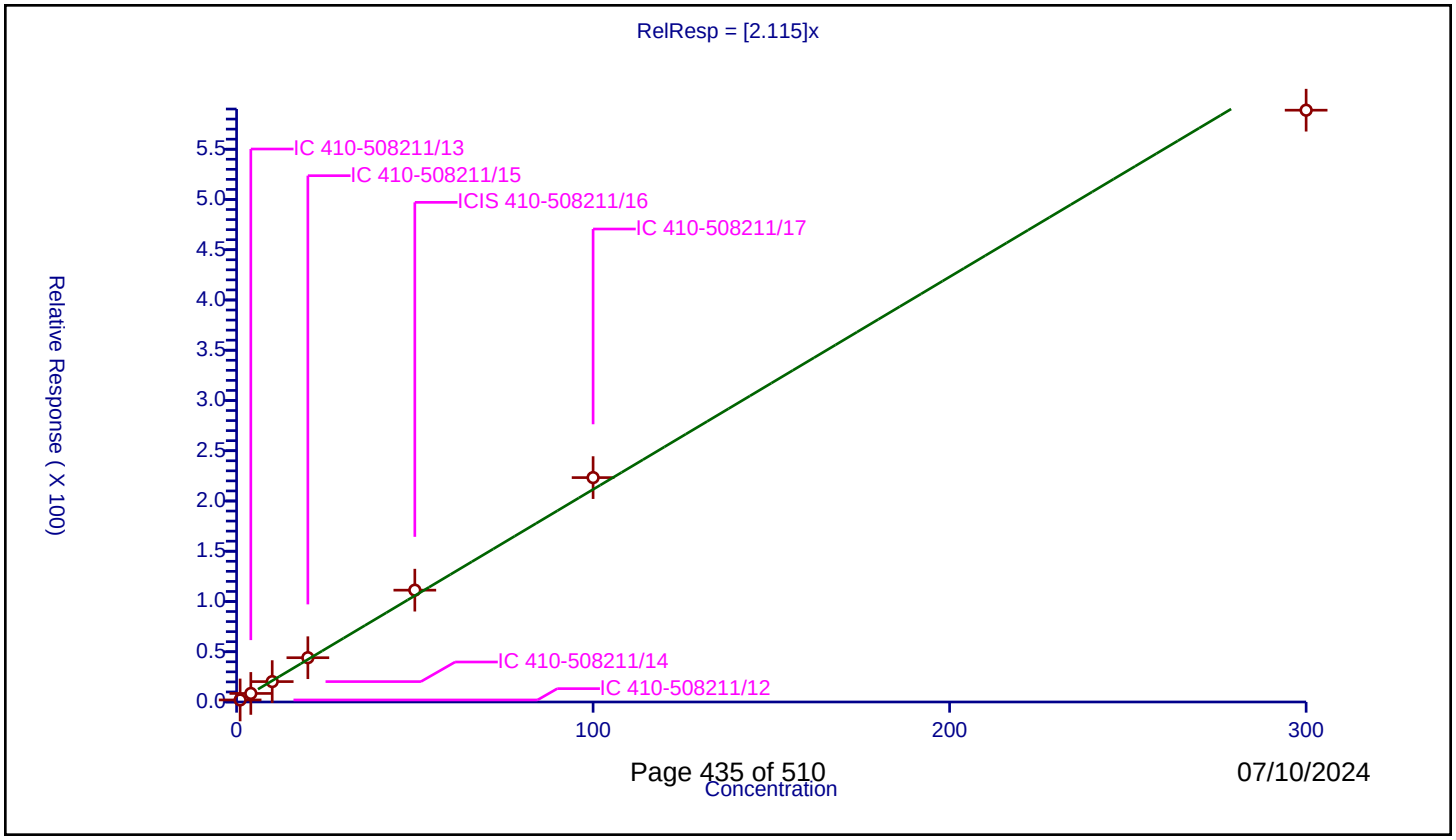
Curve Coefficients

Intercept:	0
Slope:	2.115

Error Coefficients

Relative Standard Deviation:	5.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	2.027926	50.0	556751.0	2.027926	Y
2	IC 410-508211/13	4.0	8.495517	50.0	563303.0	2.123879	Y
3	IC 410-508211/14	10.0	20.29036	50.0	588649.0	2.029036	Y
4	IC 410-508211/15	20.0	44.053642	50.0	549454.0	2.202682	Y
5	ICIS 410-508211/16	50.0	111.276017	50.0	556513.0	2.22552	Y
6	IC 410-508211/17	100.0	223.248584	50.0	545530.0	2.232486	Y
7	IC 410-508211/18	300.0	588.821773	50.0	621977.0	1.962739	Y



Calibration / 1,3-Diethylbenzene

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

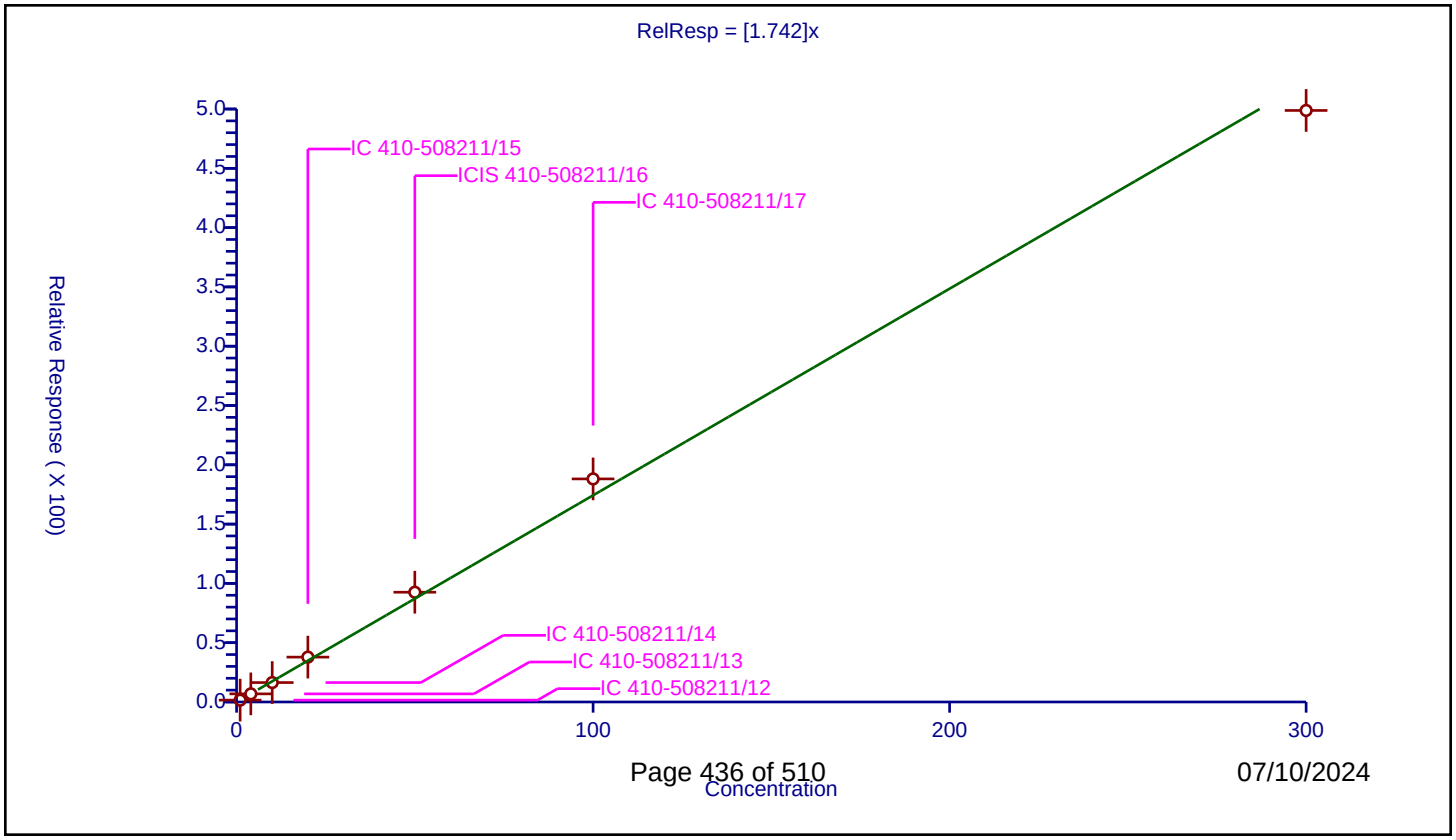
Curve Coefficients

Intercept:	0
Slope:	1.742

Error Coefficients

Relative Standard Deviation:	7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	1.558506	50.0	556751.0	1.558506	Y
2	IC 410-508211/13	4.0	6.856257	50.0	563303.0	1.714064	Y
3	IC 410-508211/14	10.0	16.380899	50.0	588649.0	1.63809	Y
4	IC 410-508211/15	20.0	37.824276	50.0	549454.0	1.891214	Y
5	ICIS 410-508211/16	50.0	92.564864	50.0	556513.0	1.851297	Y
6	IC 410-508211/17	100.0	188.110828	50.0	545530.0	1.881108	Y
7	IC 410-508211/18	300.0	498.788942	50.0	621977.0	1.66263	Y



Calibration / p-Diethylbenzene

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

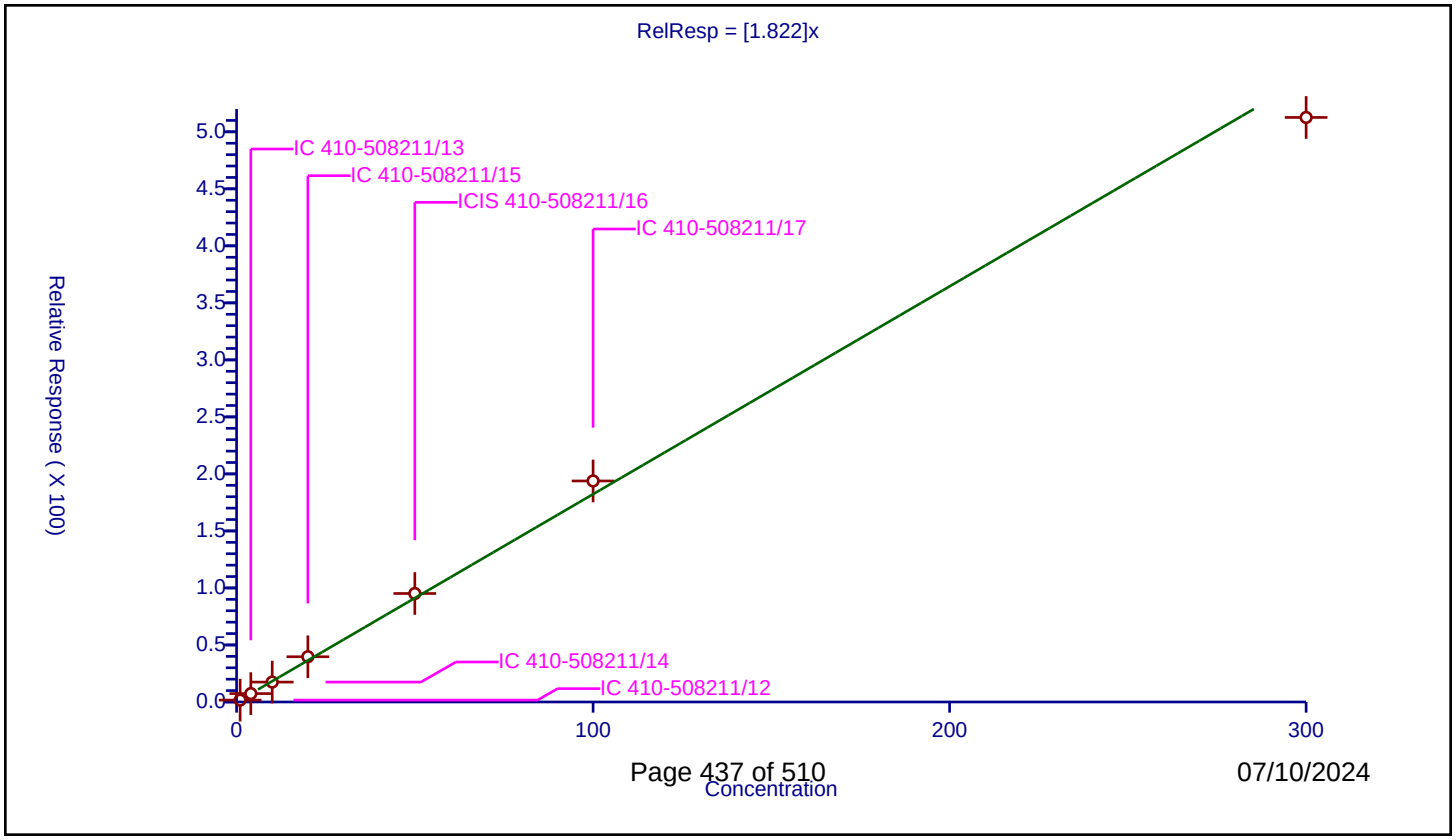
Curve Coefficients

Intercept:	0
Slope:	1.822

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	1.639063	50.0	556751.0	1.639063	Y
2	IC 410-508211/13	4.0	7.350218	50.0	563303.0	1.837555	Y
3	IC 410-508211/14	10.0	17.463378	50.0	588649.0	1.746338	Y
4	IC 410-508211/15	20.0	39.68294	50.0	549454.0	1.984147	Y
5	ICIS 410-508211/16	50.0	95.13156	50.0	556513.0	1.902631	Y
6	IC 410-508211/17	100.0	193.821421	50.0	545530.0	1.938214	Y
7	IC 410-508211/18	300.0	512.605852	50.0	621977.0	1.708686	Y



Calibration / n-Butylbenzene

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

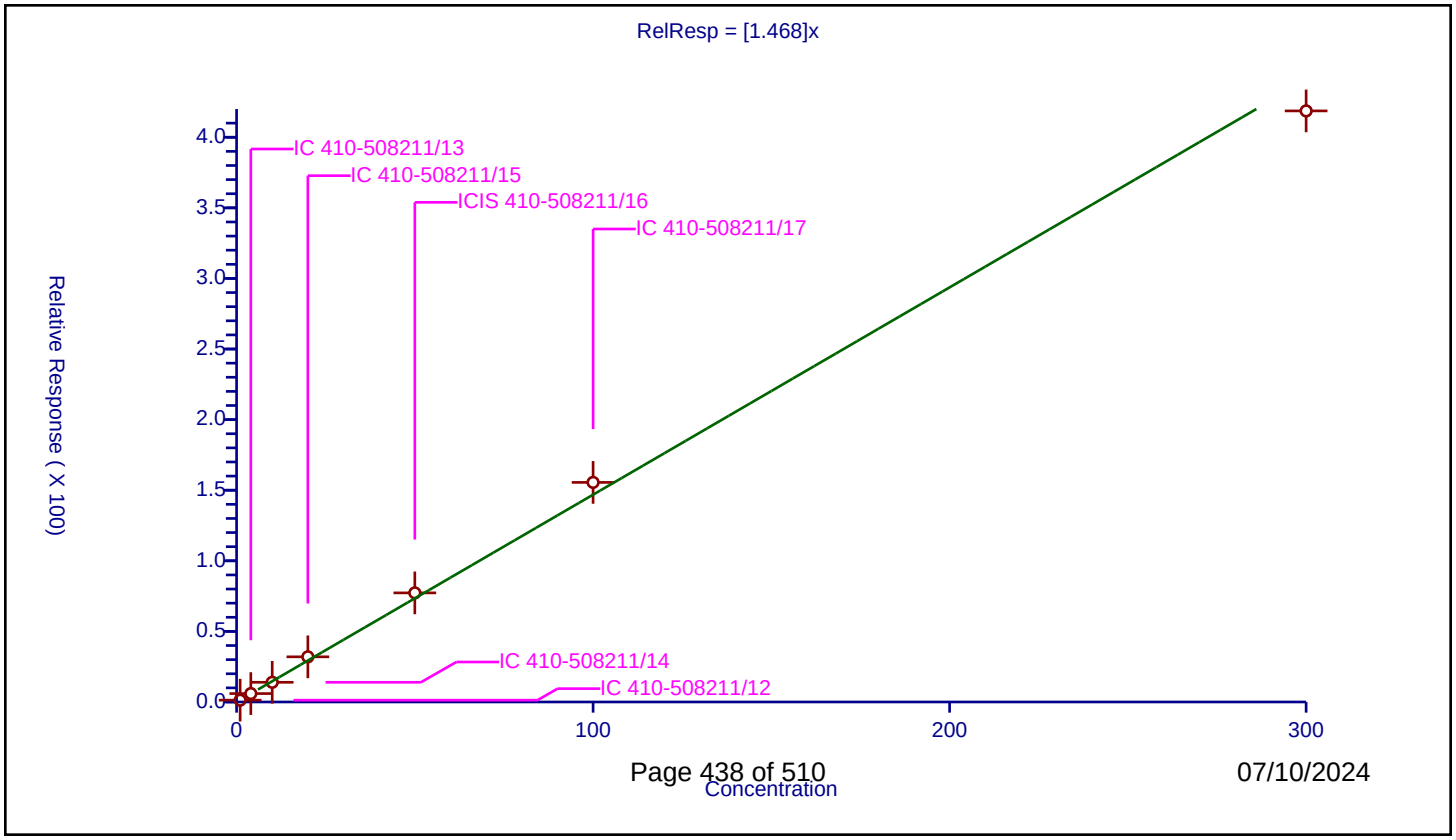
Curve Coefficients

Intercept:	0
Slope:	1.468

Error Coefficients

Relative Standard Deviation:	7.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	1.299953	50.0	556751.0	1.299953	Y
2	IC 410-508211/13	4.0	5.949906	50.0	563303.0	1.487477	Y
3	IC 410-508211/14	10.0	13.946936	50.0	588649.0	1.394694	Y
4	IC 410-508211/15	20.0	31.984297	50.0	549454.0	1.599215	Y
5	ICIS 410-508211/16	50.0	77.28903	50.0	556513.0	1.545781	Y
6	IC 410-508211/17	100.0	155.537184	50.0	545530.0	1.555372	Y
7	IC 410-508211/18	300.0	418.667411	50.0	621977.0	1.395558	Y



Calibration / 1,2-Dichlorobenzene

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

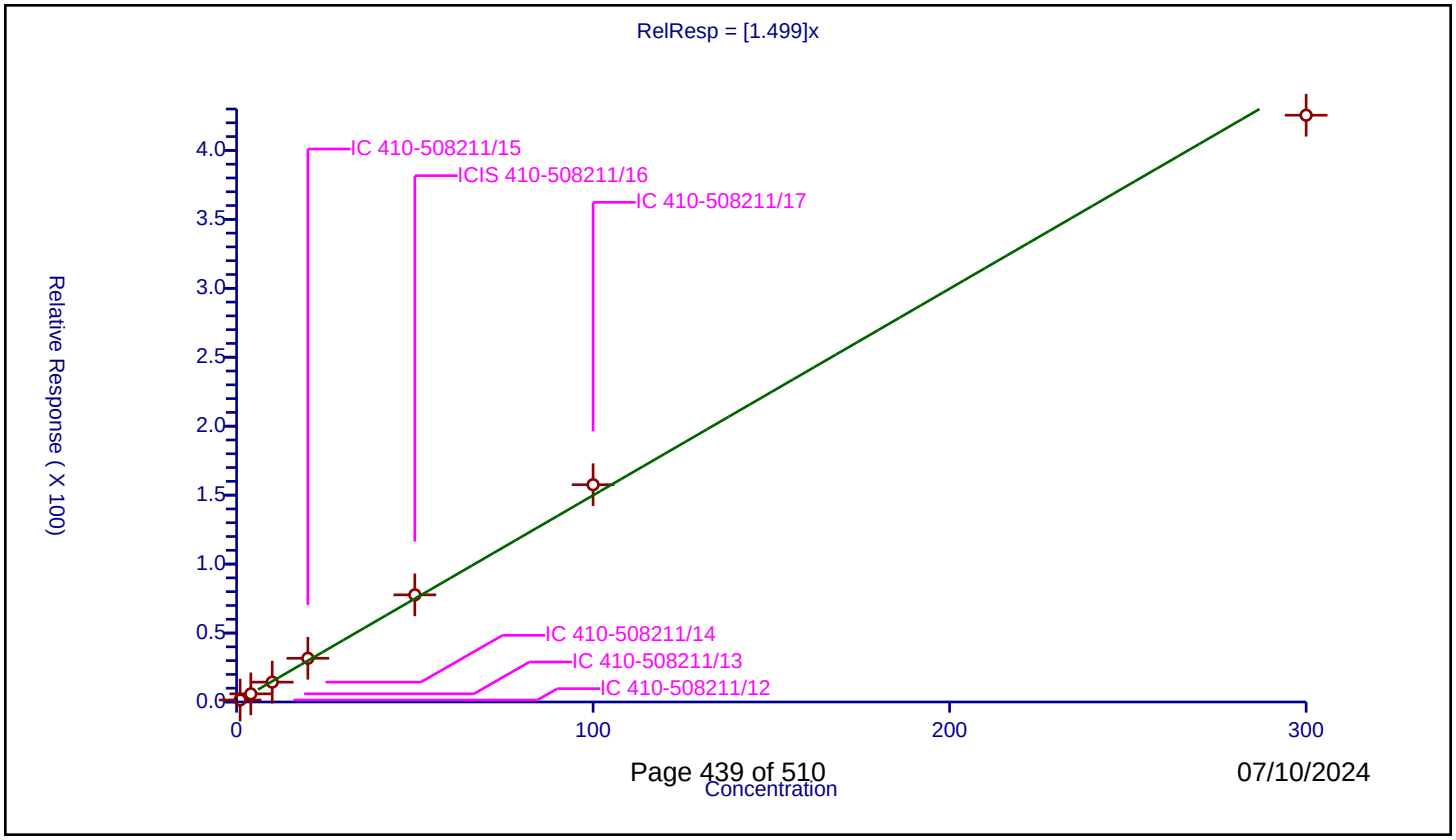
Curve Coefficients

Intercept:	0
Slope:	1.499

Error Coefficients

Relative Standard Deviation:	4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	1.439602	50.0	556751.0	1.439602	Y
2	IC 410-508211/13	4.0	5.911028	50.0	563303.0	1.477757	Y
3	IC 410-508211/14	10.0	14.392533	50.0	588649.0	1.439253	Y
4	IC 410-508211/15	20.0	31.709024	50.0	549454.0	1.585451	Y
5	ICIS 410-508211/16	50.0	77.690189	50.0	556513.0	1.553804	Y
6	IC 410-508211/17	100.0	157.54459	50.0	545530.0	1.575446	Y
7	IC 410-508211/18	300.0	425.522889	50.0	621977.0	1.41841	Y



Calibration / o-diethylbenzene

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

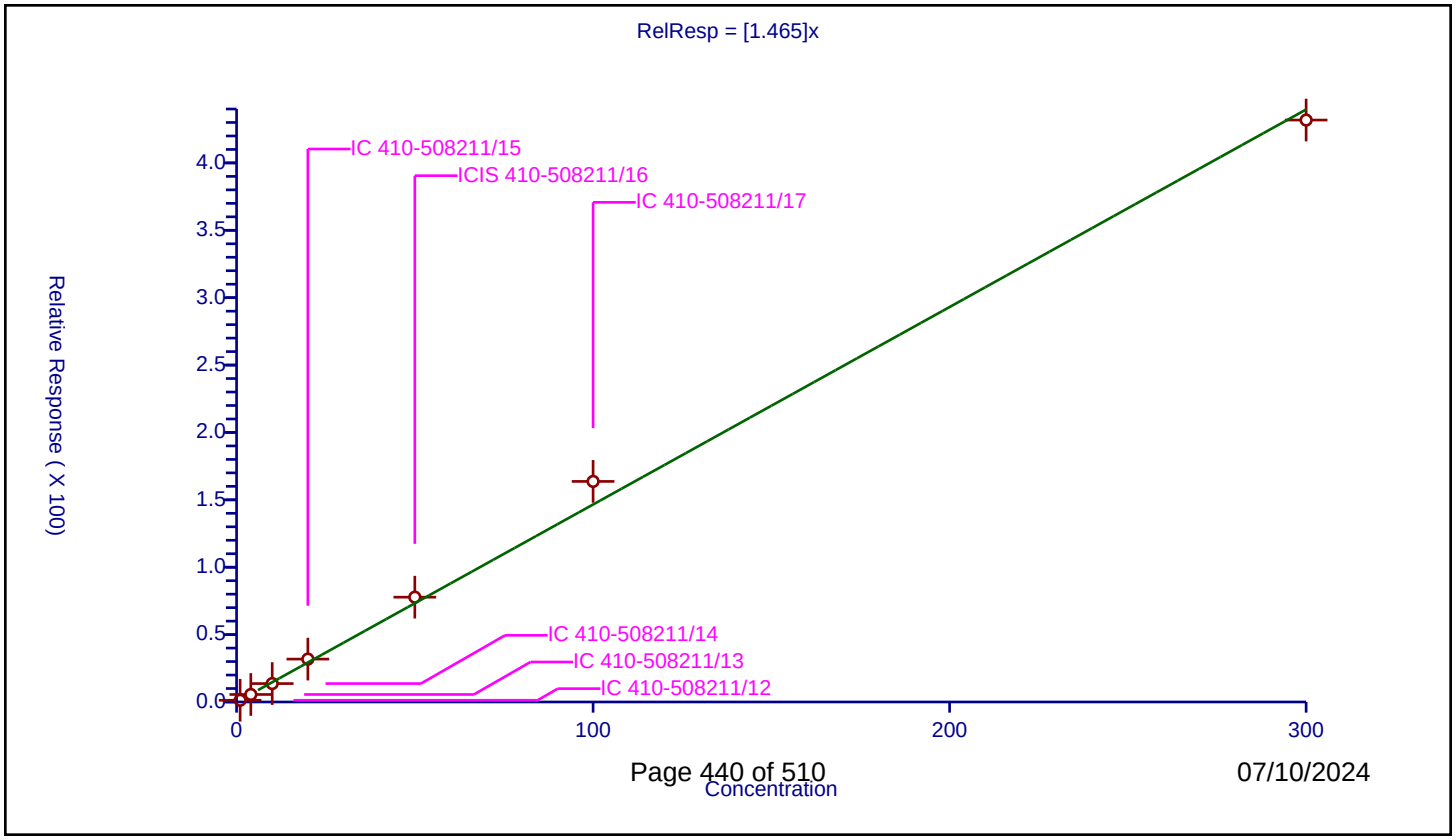
Curve Coefficients

Intercept:	0
Slope:	1.465

Error Coefficients

Relative Standard Deviation:	9.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	1.275525	50.0	556751.0	1.275525	Y
2	IC 410-508211/13	4.0	5.569116	50.0	563303.0	1.392279	Y
3	IC 410-508211/14	10.0	13.670371	50.0	588649.0	1.367037	Y
4	IC 410-508211/15	20.0	31.827505	50.0	549454.0	1.591375	Y
5	ICIS 410-508211/16	50.0	77.776979	50.0	556513.0	1.55554	Y
6	IC 410-508211/17	100.0	163.668084	50.0	545530.0	1.636681	Y
7	IC 410-508211/18	300.0	431.80825	50.0	621977.0	1.439361	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

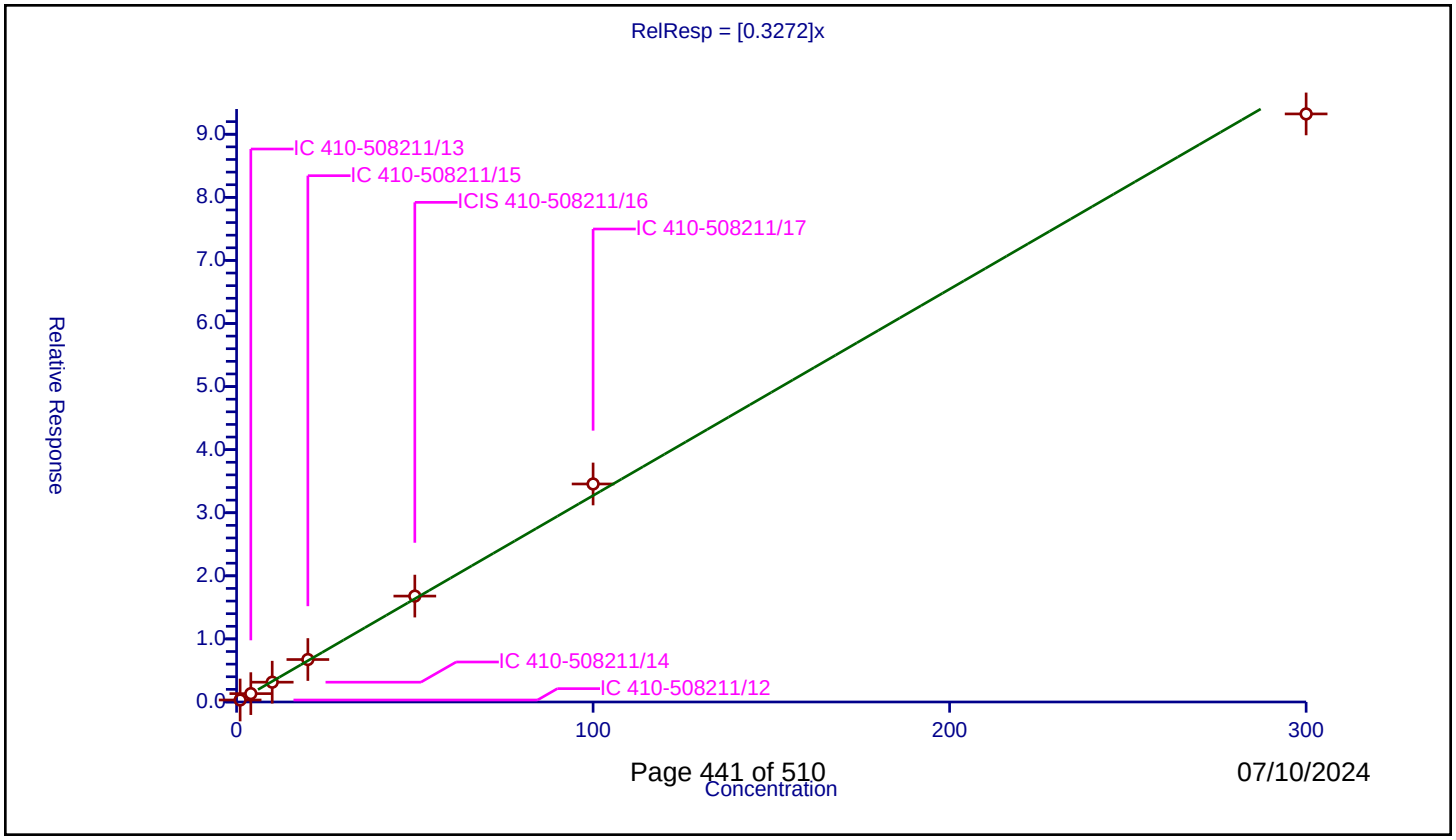
Curve Coefficients

Intercept:	0
Slope:	0.3272

Error Coefficients

Relative Standard Deviation:	4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.316569	50.0	556751.0	0.316569	Y
2	IC 410-508211/13	4.0	1.326639	50.0	563303.0	0.33166	Y
3	IC 410-508211/14	10.0	3.137269	50.0	588649.0	0.313727	Y
4	IC 410-508211/15	20.0	6.731501	50.0	549454.0	0.336575	Y
5	ICIS 410-508211/16	50.0	16.78676	50.0	556513.0	0.335735	Y
6	IC 410-508211/17	100.0	34.561986	50.0	545530.0	0.34562	Y
7	IC 410-508211/18	300.0	93.220489	50.0	621977.0	0.310735	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

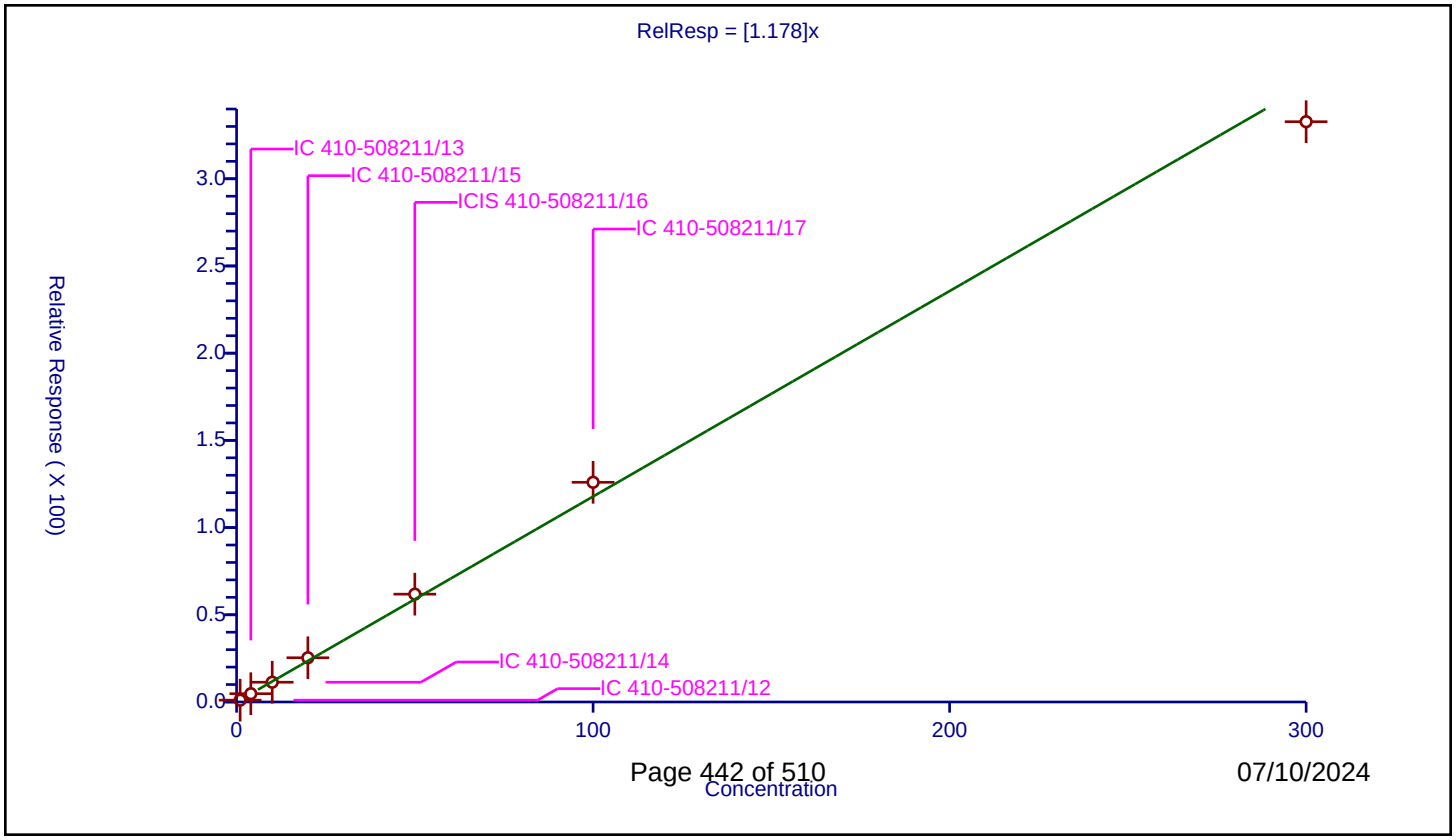
Curve Coefficients

Intercept:	0
Slope:	1.178

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	1.052625	50.0	556751.0	1.052625	Y
2	IC 410-508211/13	4.0	4.752593	50.0	563303.0	1.188148	Y
3	IC 410-508211/14	10.0	11.334174	50.0	588649.0	1.133417	Y
4	IC 410-508211/15	20.0	25.351258	50.0	549454.0	1.267563	Y
5	ICIS 410-508211/16	50.0	61.828744	50.0	556513.0	1.236575	Y
6	IC 410-508211/17	100.0	125.970341	50.0	545530.0	1.259703	Y
7	IC 410-508211/18	300.0	332.725245	50.0	621977.0	1.109084	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

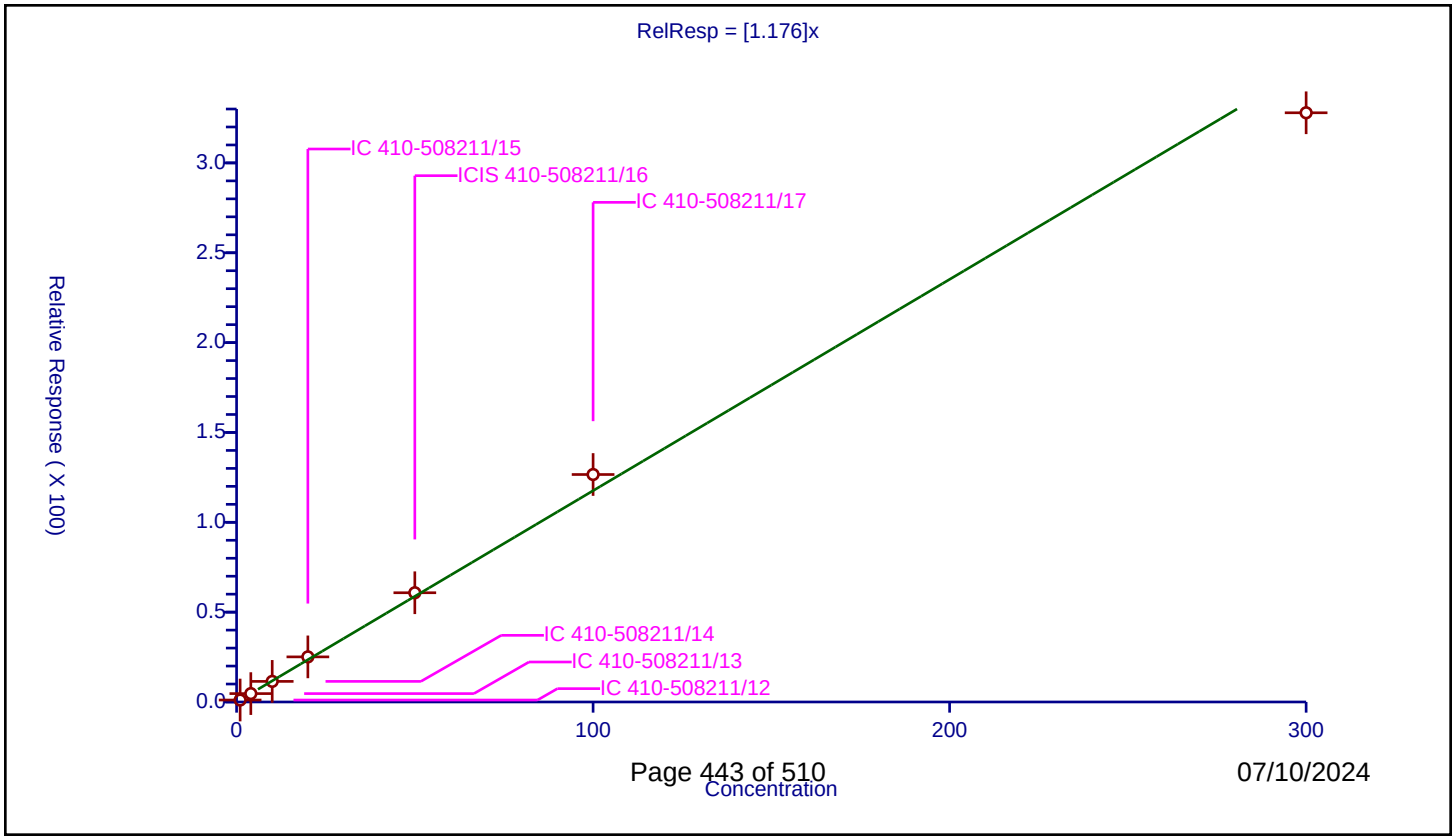
Curve Coefficients

Intercept:	0
Slope:	1.176

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	1.08756	50.0	556751.0	1.08756	Y
2	IC 410-508211/13	4.0	4.669423	50.0	563303.0	1.167356	Y
3	IC 410-508211/14	10.0	11.464132	50.0	588649.0	1.146413	Y
4	IC 410-508211/15	20.0	25.109381	50.0	549454.0	1.255469	Y
5	ICIS 410-508211/16	50.0	60.79283	50.0	556513.0	1.215857	Y
6	IC 410-508211/17	100.0	126.591205	50.0	545530.0	1.265912	Y
7	IC 410-508211/18	300.0	327.908267	50.0	621977.0	1.093028	Y



Calibration / 2-Ethylhexyl acrylate

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

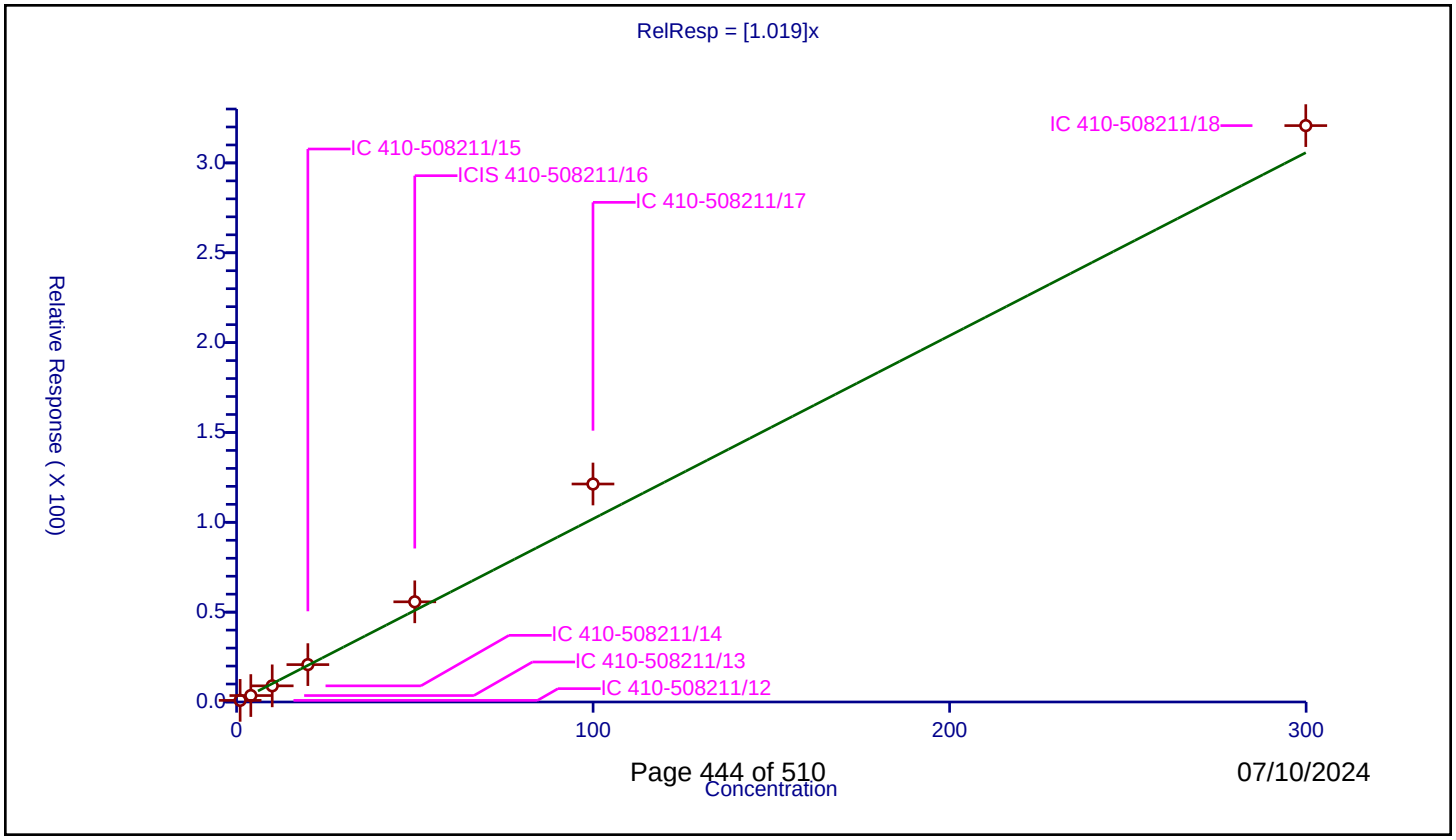
Curve Coefficients

Intercept:	0
Slope:	1.019

Error Coefficients

Relative Standard Deviation:	12.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	0.9997	0.900223	50.0	556751.0	0.900493	Y
2	IC 410-508211/13	3.9988	3.587678	50.0	563303.0	0.897189	Y
3	IC 410-508211/14	9.997	8.985491	50.0	588649.0	0.898819	Y
4	IC 410-508211/15	19.994	20.799102	50.0	549454.0	1.040267	Y
5	ICIS 410-508211/16	49.985	55.750899	50.0	556513.0	1.115353	Y
6	IC 410-508211/17	99.97	121.313585	50.0	545530.0	1.2135	Y
7	IC 410-508211/18	299.91	320.763228	50.0	621977.0	1.069532	Y



Calibration / Hexachlorobutadiene

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

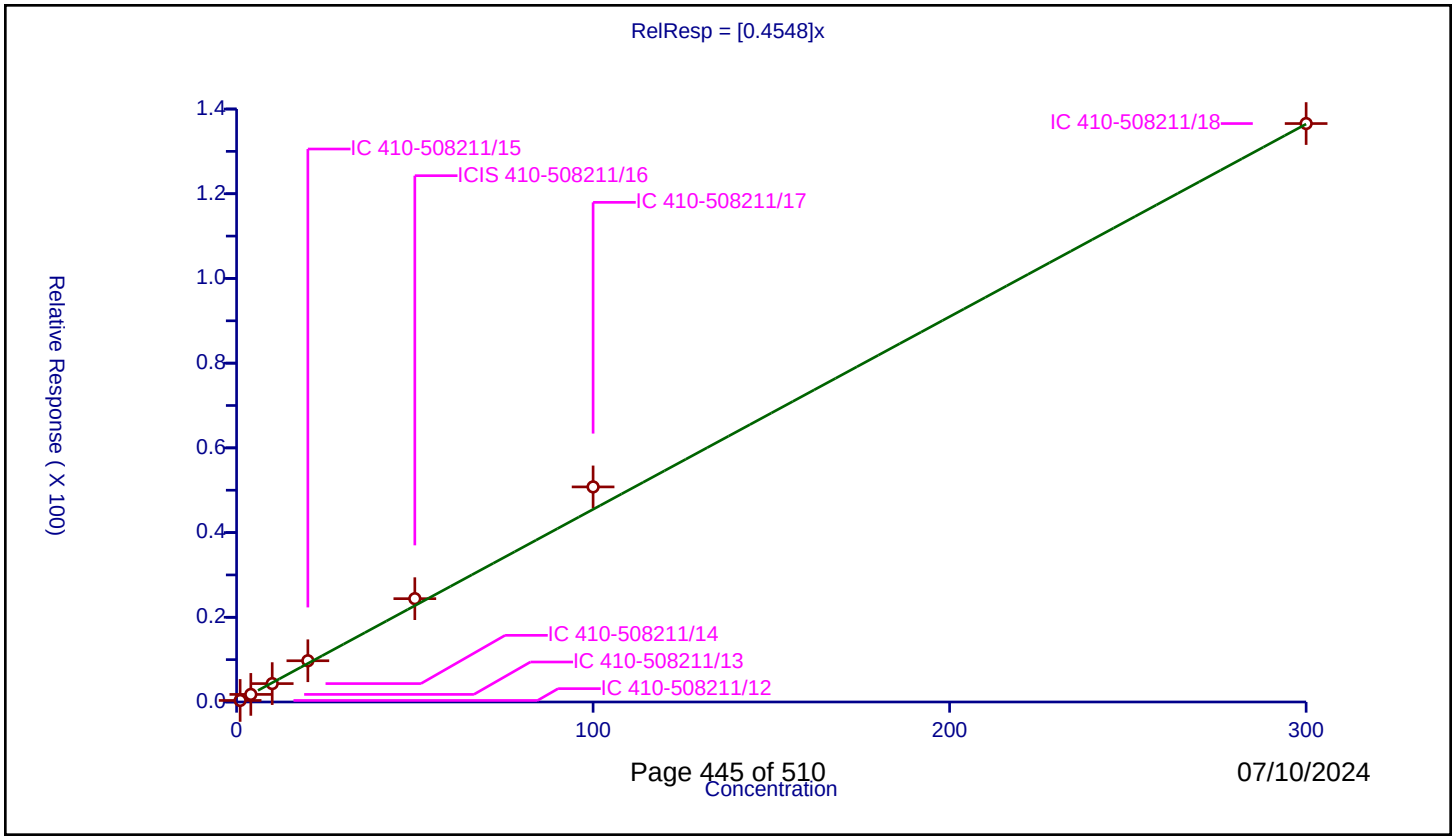
Curve Coefficients

Intercept:	0
Slope:	0.4548

Error Coefficients

Relative Standard Deviation:	10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	0.364975	50.0	556751.0	0.364975	Y
2	IC 410-508211/13	4.0	1.789002	50.0	563303.0	0.44725	Y
3	IC 410-508211/14	10.0	4.338833	50.0	588649.0	0.433883	Y
4	IC 410-508211/15	20.0	9.737303	50.0	549454.0	0.486865	Y
5	ICIS 410-508211/16	50.0	24.391434	50.0	556513.0	0.487829	Y
6	IC 410-508211/17	100.0	50.782358	50.0	545530.0	0.507824	Y
7	IC 410-508211/18	300.0	136.570725	50.0	621977.0	0.455236	Y



Calibration / Naphthalene

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

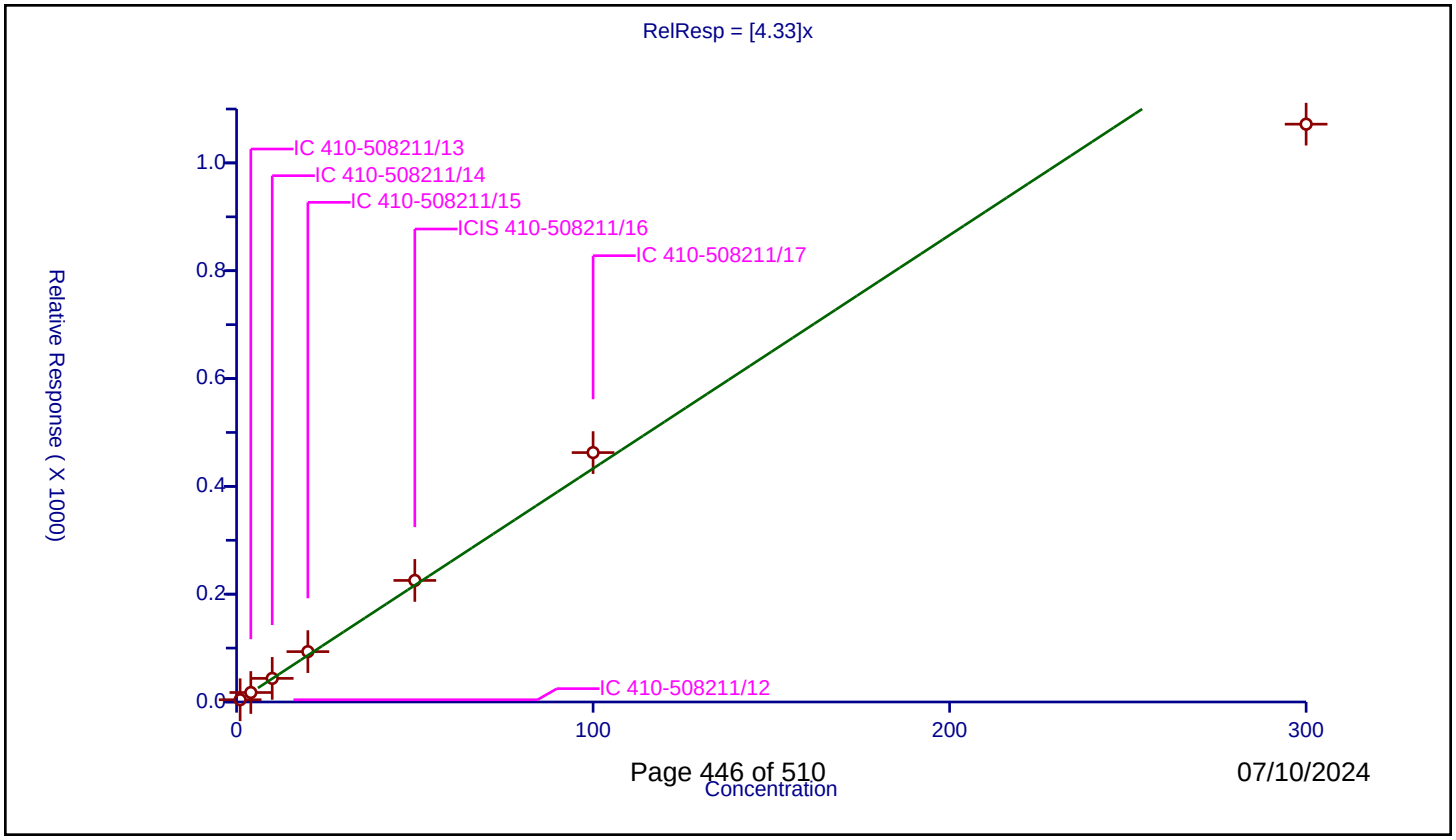
Curve Coefficients

Intercept:	0
Slope:	4.33

Error Coefficients

Relative Standard Deviation:	8.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	4.160028	50.0	556751.0	4.160028	Y
2	IC 410-508211/13	4.0	17.567011	50.0	563303.0	4.391753	Y
3	IC 410-508211/14	10.0	43.812781	50.0	588649.0	4.381278	Y
4	IC 410-508211/15	20.0	93.421651	50.0	549454.0	4.671083	Y
5	ICIS 410-508211/16	50.0	225.476853	50.0	556513.0	4.509537	Y
6	IC 410-508211/17	100.0	462.670339	50.0	545530.0	4.626703	Y
7	IC 410-508211/18	300.0	1071.904669	50.0	621977.0	3.573016	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

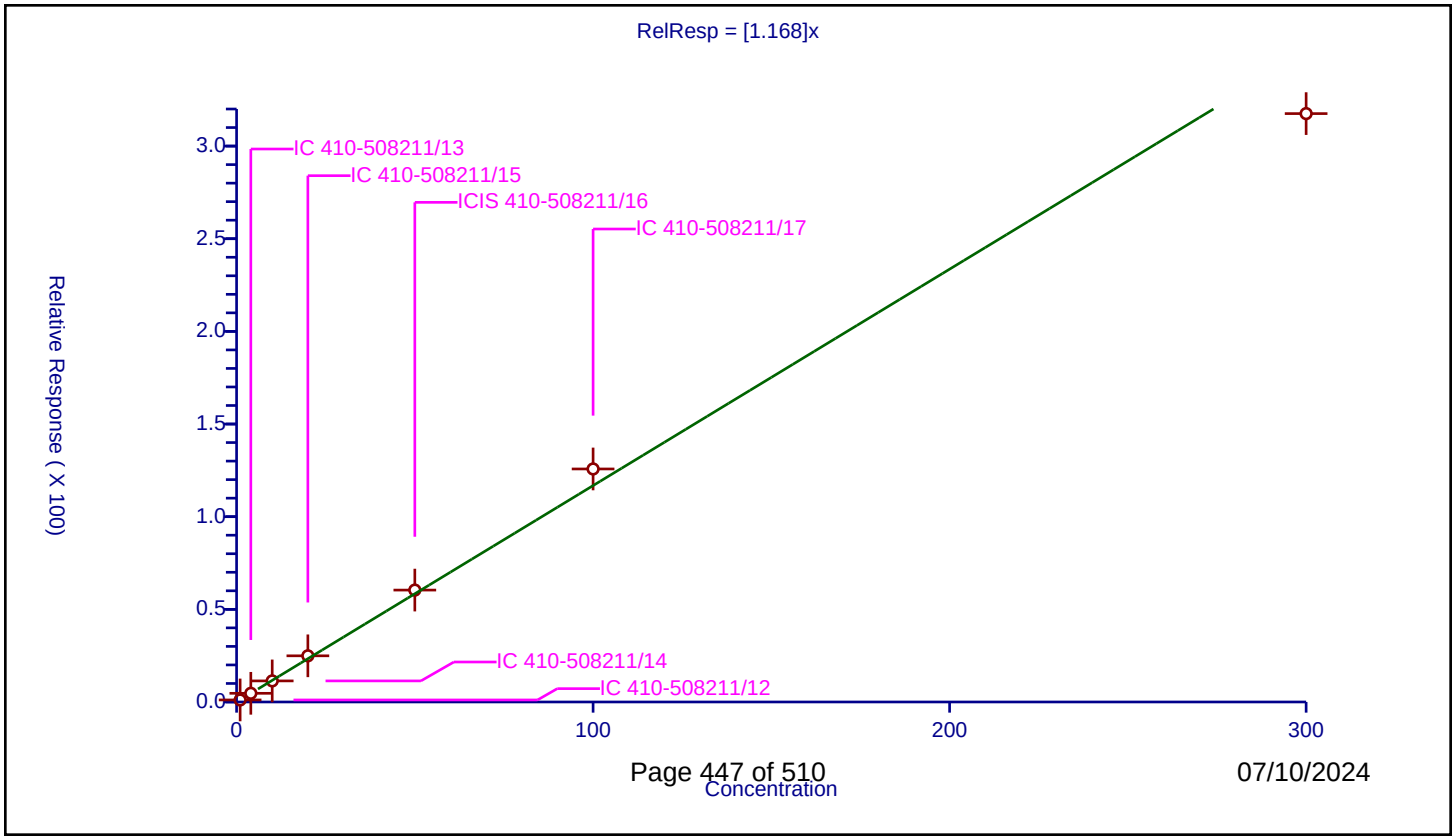
Curve Coefficients

Intercept:	0
Slope:	1.168

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	1.094924	50.0	556751.0	1.094924	Y
2	IC 410-508211/13	4.0	4.688951	50.0	563303.0	1.172238	Y
3	IC 410-508211/14	10.0	11.378258	50.0	588649.0	1.137826	Y
4	IC 410-508211/15	20.0	24.919375	50.0	549454.0	1.245969	Y
5	ICIS 410-508211/16	50.0	60.39778	50.0	556513.0	1.207956	Y
6	IC 410-508211/17	100.0	125.754862	50.0	545530.0	1.257549	Y
7	IC 410-508211/18	300.0	317.526291	50.0	621977.0	1.058421	Y



Calibration / 2-Methylnaphthalene

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

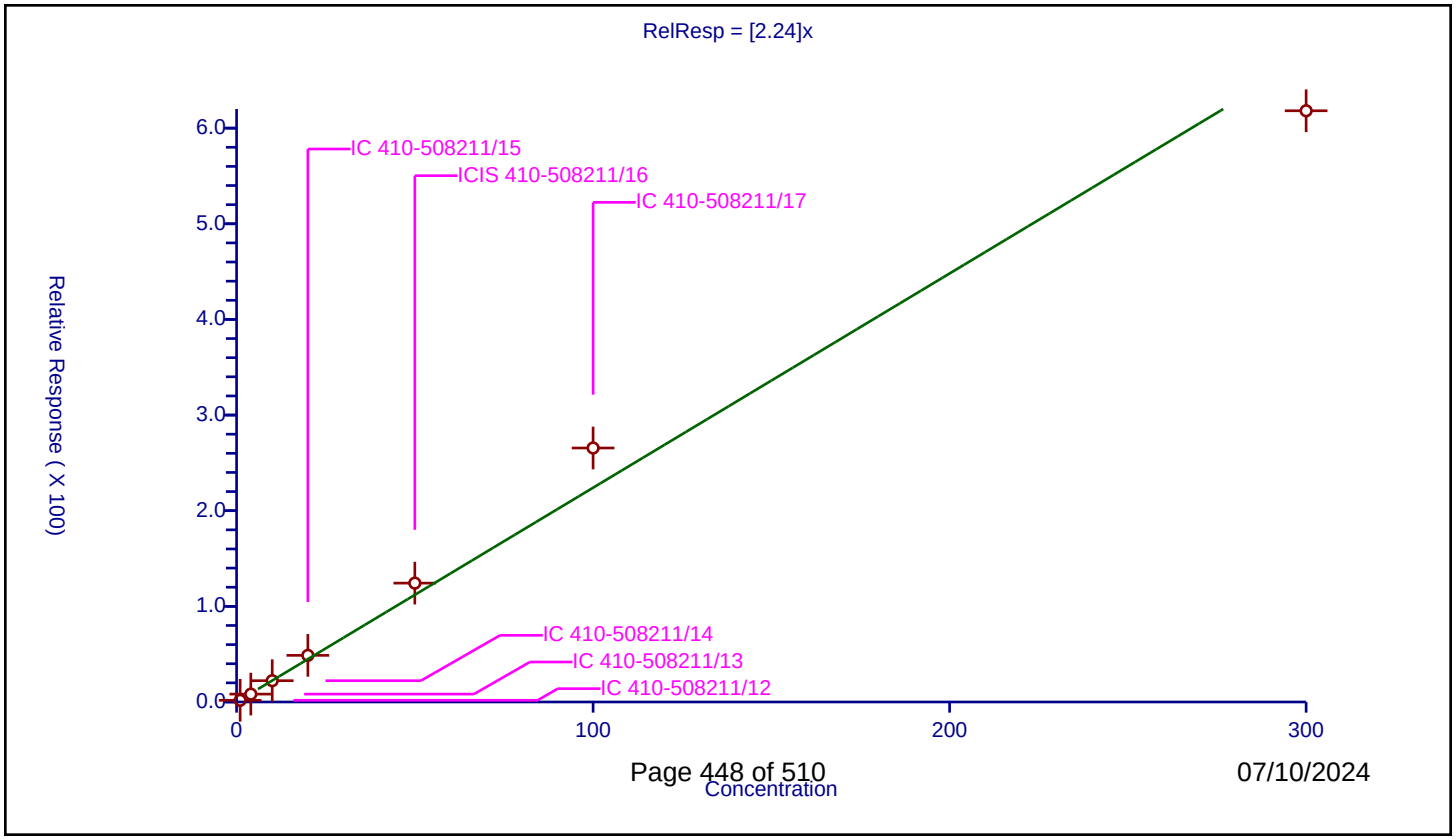
Curve Coefficients

Intercept:	0
Slope:	2.24

Error Coefficients

Relative Standard Deviation:	13.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-508211/12	1.0	1.758775	50.0	556751.0	1.758775	Y
2	IC 410-508211/13	4.0	8.235266	50.0	563303.0	2.058816	Y
3	IC 410-508211/14	10.0	22.253499	50.0	588649.0	2.22535	Y
4	IC 410-508211/15	20.0	48.740204	50.0	549454.0	2.43701	Y
5	ICIS 410-508211/16	50.0	124.278948	50.0	556513.0	2.485579	Y
6	IC 410-508211/17	100.0	265.573204	50.0	545530.0	2.655732	Y
7	IC 410-508211/18	300.0	618.160157	50.0	621977.0	2.060534	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1

SDG No.:

Lab Sample ID: ICV 410-508211/20 Calibration Date: 05/21/2024 04:00

Instrument ID: 23297 Calib Start Date: 05/21/2024 01:00

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 05/21/2024 03:15

Lab File ID: 4Y20X19.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	0.4415	0.3778	0.1000	17.1	20.0	-14.4	30.0
Chloromethane	Ave	0.4789	0.4021	0.1000	16.8	20.0	-16.0	30.0
Vinyl chloride	Ave	0.4462	0.4005	0.1000	18.0	20.0	-10.2	30.0
1,3-Butadiene	Ave	0.4389	0.3536		16.1	20.0	-19.4	30.0
Bromomethane	Ave	0.3291	0.2952	0.1000	17.9	20.0	-10.3	30.0
Chloroethane	Ave	0.2388	0.2247	0.1000	18.8	20.0	-5.9	30.0
Dichlorofluoromethane	Ave	0.6542	0.5767		17.6	20.0	-11.9	30.0
Trichlorofluoromethane	Ave	0.4697	0.4355	0.1000	18.5	20.0	-7.3	30.0
n-Pentane	Ave	0.4009	0.3979		19.9	20.0	-0.7	30.0
Ethanol	Ave	0.0766	0.0796		1040	1000	3.9	30.0
Freon 123a	Ave	0.3348	0.3142		18.8	20.0	-6.1	30.0
Acrolein	Ave	1.104	1.047		143	150	-5.1	30.0
1,1-Dichloroethene	Ave	0.2303	0.2382	0.1000	20.7	20.0	3.5	30.0
Acetone	Ave	0.6134	0.5571	0.1000	227	250	-9.2	30.0
Freon 113	Ave	0.2619	0.2301	0.1000	17.6	20.0	-12.1	30.0
2-Propanol	Ave	0.6108	0.5193		128	150	-15.0	30.0
Methyl iodide	Ave	0.4842	0.4659		19.2	20.0	-3.8	30.0
Carbon disulfide	Ave	0.8607	0.8204	0.1000	19.1	20.0	-4.7	30.0
Methyl acetate	Ave	0.3477	0.3213	0.1000	18.5	20.0	-7.6	30.0
Allyl chloride	Ave	0.3810	0.3486		18.3	20.0	-8.5	30.0
Methylene Chloride	Ave	0.2871	0.2878	0.1000	20.0	20.0	0.2	30.0
t-Butyl alcohol	Ave	1.043	0.9219		177	200	-11.6	30.0
Acrylonitrile	Ave	0.1848	0.1835		99.3	100	-0.7	30.0
Methyl tert-butyl ether	Ave	0.8558	0.7957	0.1000	18.6	20.0	-7.0	30.0
trans-1,2-Dichloroethene	Ave	0.2449	0.2355	0.1000	19.2	20.0	-3.8	30.0
n-Hexane	Ave	0.3277	0.3025		18.5	20.0	-7.7	30.0
1,1-Dichloroethane	Ave	0.4248	0.4319	0.2000	20.3	20.0	1.7	30.0
Isopropyl ether	Ave	0.8251	0.7826		19.0	20.0	-5.2	30.0
2-Chloro-1,3-butadiene	Ave	0.3556	0.3404		19.1	20.0	-4.3	30.0
Ethyl t-butyl ether	Ave	0.8153	0.7895		19.4	20.0	-3.2	30.0
2-Butanone (MEK)	Ave	0.2626	0.2570	0.1000	245	250	-2.1	30.0
cis-1,2-Dichloroethene	Ave	0.2841	0.2770	0.1000	19.5	20.0	-2.5	30.0
2,2-Dichloropropane	Ave	0.4191	0.4028		19.2	20.0	-3.9	30.0
Propionitrile	Ave	0.9469	0.9348		148	150	-1.3	30.0
Methyl acrylate	Ave	0.4764	0.4635		19.4	20.0	-2.7	30.0
Methacrylonitrile	Ave	0.1849	0.1806		147	150	-2.3	30.0
Bromochloromethane	Ave	0.1468	0.1490		20.3	20.0	1.5	30.0
Tetrahydrofuran	Ave	0.8491	0.7872		92.7	100	-7.3	30.0
Chloroform	Lin2		0.4621	0.2000	19.1	20.0	-4.3	30.0
1,1,1-Trichloroethane	Ave	0.3972	0.3988	0.1000	20.1	20.0	0.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1

SDG No.:

Lab Sample ID: ICV 410-508211/20 Calibration Date: 05/21/2024 04:00

Instrument ID: 23297 Calib Start Date: 05/21/2024 01:00

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 05/21/2024 03:15

Lab File ID: 4Y20X19.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	0.4843	0.4419	0.1000	18.2	20.0	-8.8	30.0
Carbon tetrachloride	Ave	0.3275	0.3301	0.1000	20.2	20.0	0.8	30.0
1,1-Dichloropropene	Ave	0.3366	0.3322		19.7	20.0	-1.3	30.0
Isobutyl alcohol	Ave	0.3375	0.2929		434	500	-13.2	30.0
Benzene	Ave	1.025	1.004	0.5000	19.6	20.0	-2.0	30.0
1,2-Dichloroethane	Ave	0.3324	0.3270	0.1000	19.7	20.0	-1.6	30.0
t-Amyl methyl ether	Ave	0.8099	0.7856		19.4	20.0	-3.0	30.0
n-Heptane	Ave	0.3629	0.3132		17.3	20.0	-13.7	30.0
n-Butanol	Ave	0.2707	0.2431		898	1000	-10.2	30.0
Trichloroethene	Ave	0.2635	0.2545	0.2000	19.3	20.0	-3.4	30.0
Ethyl acrylate	Ave	0.4822	0.4511		18.7	20.0	-6.5	30.0
Methylcyclohexane	Ave	0.4847	0.4456	0.1000	18.4	20.0	-8.1	30.0
1,2-Dichloropropane	Ave	0.2683	0.2657	0.1000	19.8	20.0	-1.0	30.0
t-Amyl ethyl ether	Ave	0.3935	0.3567		18.1	20.0	-9.3	30.0
1,4-Dioxane	Ave	0.0690	0.0649	0.0050	470	500	-6.0	30.0
Methyl methacrylate	Ave	0.2700	0.2513		18.6	20.0	-6.9	30.0
Dibromomethane	Ave	0.1878	0.1842		19.6	20.0	-1.9	30.0
Bromodichloromethane	Ave	0.3273	0.3132	0.2000	19.1	20.0	-4.3	30.0
2-Nitropropane	Ave	1.344	1.215		18.1	20.0	-9.6	30.0
2-Chloroethyl vinyl ether	Ave	0.1940	0.1900		19.6	20.0	-2.1	30.0
cis-1,3-Dichloropropene	Ave	0.4218	0.3904	0.2000	18.5	20.0	-7.4	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.5219	0.4872	0.1000	233	250	-6.6	30.0
Toluene	Ave	0.8479	0.8402	0.4000	19.8	20.0	-0.9	30.0
trans-1,3-Dichloropropene	Ave	0.4957	0.4860	0.1000	19.6	20.0	-2.0	30.0
Ethyl methacrylate	Ave	0.5941	0.5536		18.6	20.0	-6.8	30.0
1,1,2-Trichloroethane	Ave	0.3327	0.3272	0.1000	19.7	20.0	-1.6	30.0
Tetrachloroethene	Ave	0.3529	0.3519	0.2000	19.9	20.0	-0.3	30.0
1,3-Dichloropropane	Ave	0.5237	0.5080		19.4	20.0	-3.0	30.0
2-Hexanone	Ave	0.4762	0.4613	0.1000	242	250	-3.1	30.0
Dibromochloromethane	Ave	0.3569	0.3466		19.4	20.0	-2.9	30.0
Ethylene Dibromide	Ave	0.3483	0.3452	0.1000	19.8	20.0	-0.9	30.0
1-Chlorohexane	Ave	0.4659	0.4238		18.2	20.0	-9.0	30.0
Chlorobenzene	Ave	0.9466	0.9187	0.5000	19.4	20.0	-2.9	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3683	0.3649		19.8	20.0	-0.9	30.0
Ethylbenzene	Ave	1.630	1.637	0.1000	20.1	20.0	0.4	30.0
m&p-Xylene	Ave	0.6500	0.6475	0.1000	39.8	40.0	-0.4	30.0
n-Butyl acrylate	Ave	0.8344	0.8387		20.1	20.0	0.5	30.0
o-Xylene	Ave	0.7068	0.6926	0.3000	19.6	20.0	-2.0	30.0
Styrene	Ave	1.064	1.038	0.3000	19.5	20.0	-2.4	30.0
Bromoform	Ave	0.2790	0.2603	0.1000	18.7	20.0	-6.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1

SDG No.:

Lab Sample ID: ICV 410-508211/20 Calibration Date: 05/21/2024 04:00

Instrument ID: 23297 Calib Start Date: 05/21/2024 01:00

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 05/21/2024 03:15

Lab File ID: 4Y20X19.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	1.675	1.799	0.1000	21.5	20.0	7.4	30.0
Cyclohexanone	Ave	0.3137	0.2382		380	500	-24.1	30.0
1,1,2,2-Tetrachloroethane	Ave	1.091	1.047	0.3000	19.2	20.0	-4.0	30.0
Bromobenzene	Ave	0.7132	0.6950		19.5	20.0	-2.6	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2919	0.2845		97.5	100	-2.5	30.0
1,2,3-Trichloropropane	Ave	0.3104	0.2949		19.0	20.0	-5.0	30.0
N-Propylbenzene	Ave	3.375	3.442		20.4	20.0	2.0	30.0
2-Chlorotoluene	Ave	0.7370	0.7198		19.5	20.0	-2.3	30.0
1,3,5-Trimethylbenzene	Ave	2.604	2.596		19.9	20.0	-0.3	30.0
4-Chlorotoluene	Ave	0.7124	0.6859		19.3	20.0	-3.7	30.0
tert-Butylbenzene	Ave	0.5041	0.4920		19.5	20.0	-2.4	30.0
1,2,4-Trimethylbenzene	Ave	2.650	2.654		20.0	20.0	0.2	30.0
sec-Butylbenzene	Ave	3.299	3.297		20.0	20.0	-0.0	30.0
1,3-Dichlorobenzene	Ave	1.405	1.382	0.6000	19.7	20.0	-1.7	30.0
p-Isopropyltoluene	Ave	2.919	2.846		19.5	20.0	-2.5	30.0
1,4-Dichlorobenzene	Ave	1.417	1.403	0.5000	19.8	20.0	-1.0	30.0
1,2,3-Trimethylbenzene	Ave	2.856	2.690		18.8	20.0	-5.8	30.0
Benzyl chloride	Ave	2.115	1.962		18.6	20.0	-7.2	30.0
1,3-Diethylbenzene	Ave	1.742	1.721		19.8	20.0	-1.2	30.0
1,4-Diethylbenzene	Ave	1.822	1.814		19.9	20.0	-0.5	30.0
n-Butylbenzene	Ave	1.468	1.417		19.3	20.0	-3.5	30.0
1,2-Dichlorobenzene	Ave	1.499	1.481	0.4000	19.8	20.0	-1.2	30.0
1,2-Diethylbenzene	Ave	1.465	1.428		19.5	20.0	-2.5	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.3272	0.2980	0.0500	18.2	20.0	-8.9	30.0
1,3,5-Trichlorobenzene	Ave	1.178	1.161		19.7	20.0	-1.5	30.0
1,2,4-Trichlorobenzene	Ave	1.176	1.194	0.2000	20.3	20.0	1.5	30.0
2-Ethylhexyl acrylate	Ave	1.019	1.078		21.2	20.0	5.8	30.0
Hexachlorobutadiene	Ave	0.4548	0.4573		20.1	20.0	0.5	30.0
Naphthalene	Ave	4.330	4.404		20.3	20.0	1.7	30.0
1,2,3-Trichlorobenzene	Ave	1.168	1.171		20.1	20.0	0.3	30.0
2-Methylnaphthalene	Ave	2.240	2.442		21.8	20.0	9.0	30.0
Dibromofluoromethane (Surr)	Ave	0.2523	0.2506		49.7	50.0	-0.7	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0615	0.0631		51.3	50.0	2.7	30.0
Toluene-d8 (Surr)	Ave	1.345	1.350		50.1	50.0	0.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4917	0.4894		49.8	50.0	-0.5	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X19.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 21-May-2024 04:00:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0114468-020
Misc. Info.: ICV LG
Operator ID: MEC29284 Instrument ID: 23297
Sublist:

Method: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 23-May-2024 08:36:00 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1670

First Level Reviewer: K4WN Date: 21-May-2024 17:18:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.788	1.788	0.000	99	191761	20.0	17.1	
4 Chloromethane	50	1.965	1.964	0.001	99	204056	20.0	16.8	M
5 Vinyl chloride	62	2.068	2.068	0.000	98	203276	20.0	18.0	
6 Butadiene	39	2.080	2.080	0.000	94	179478	20.0	16.1	M
8 Bromomethane	94	2.378	2.378	0.000	90	149832	20.0	17.9	
9 Chloroethane	64	2.451	2.457	-0.006	100	114023	20.0	18.8	
10 Dichlorofluoromethane	67	2.676	2.676	0.000	97	292673	20.0	17.6	
11 Trichlorofluoromethane	101	2.743	2.737	0.006	95	221022	20.0	18.5	
12 Pentane	43	2.768	2.767	0.001	97	201945	20.0	19.9	
13 Ethanol	45	2.895	2.877	0.018	94	183863	999.9	1038.6	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.041	3.047	-0.006	92	159478	20.0	18.8	
16 Acrolein	56	3.108	3.102	0.006	99	363833	150.3	142.6	
17 1,1-Dichloroethene	96	3.248	3.248	0.000	47	120907	20.0	20.7	
18 Acetone	58	3.254	3.254	0.000	100	321902	250.0	227.1	M
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.279	3.279	0.001	91	116791	20.0	17.6	
21 Iodomethane	142	3.431	3.431	0.000	97	236473	20.0	19.2	
20 Isopropyl alcohol	45	3.431	3.437	-0.006	96	180034	150.0	127.5	M
22 Carbon disulfide	76	3.534	3.528	0.006	99	416335	20.0	19.1	
24 Methyl acetate	43	3.638	3.637	0.001	98	163077	20.0	18.5	
26 3-Chloro-1-propene	41	3.668	3.668	0.000	92	176913	20.0	18.3	
27 Methylene Chloride	84	3.850	3.850	0.000	92	146037	20.0	20.0	
* 28 t-Butyl alcohol-d10 (IS)	65	3.863	3.869	-0.006	95	577805	250.0	250.0	
29 2-Methyl-2-propanol	59	3.984	3.984	0.000	100	426146	200.0	176.9	
30 Acrylonitrile	53	4.142	4.136	0.006	99	465750	100.0	99.3	
31 Methyl tert-butyl ether	73	4.215	4.209	0.006	95	403809	20.0	18.6	
32 trans-1,2-Dichloroethene	96	4.222	4.221	0.001	99	119527	20.0	19.2	
34 Hexane	57	4.653	4.647	0.006	93	153544	20.0	18.5	
35 1,1-Dichloroethane	63	4.879	4.878	0.001	96	219183	20.0	20.3	
37 Isopropyl ether	45	4.952	4.951	0.001	95	397182	20.0	19.0	
38 2-Chloro-1,3-butadiene	53	4.994	4.988	0.006	89	172744	20.0	19.1	

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	5.499	5.493	0.006	98	400677	20.0	19.4	
40 2-Butanone (MEK)	43	5.700	5.706	-0.006	100	1630665	250.0	244.7	
41 cis-1,2-Dichloroethene	96	5.730	5.730	0.000	80	140585	20.0	19.5	
42 2,2-Dichloropropane	77	5.755	5.748	0.007	85	204403	20.0	19.2	
44 Propionitrile	54	5.797	5.791	0.006	98	324070	150.0	148.1	
45 Methyl acrylate	55	5.840	5.840	0.000	100	234993	20.0	19.4	
47 Methacrylonitrile	67	6.010	6.016	-0.006	93	687452	150.0	146.5	
48 Chlorobromomethane	128	6.071	6.065	0.006	88	75635	20.0	20.3	
49 Tetrahydrofuran	71	6.089	6.083	0.006	91	181941	100.0	92.7	
50 Chloroform	83	6.223	6.229	-0.006	93	234541	20.0	19.1	
$ 51 Dibromofluoromethane (Surr)	113	6.442	6.442	0.000	94	317986	50.0	49.7	
52 1,1,1-Trichloroethane	97	6.460	6.454	0.006	97	202386	20.0	20.1	
53 Cyclohexane	56	6.552	6.558	-0.006	90	224278	20.0	18.2	
54 Carbon tetrachloride	117	6.667	6.673	-0.006	85	167529	20.0	20.2	
55 1,1-Dichloropropene	75	6.673	6.673	0.000	95	168570	20.0	19.7	
56 Isobutyl alcohol	41	6.850	6.850	0.000	95	338496	500.0	433.9	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	6.910	6.904	0.006	93	80059	50.0	51.3	
58 Benzene	78	6.941	6.941	0.000	97	509468	20.0	19.6	
59 1,2-Dichloroethane	62	7.008	7.008	0.000	97	165967	20.0	19.7	
61 Tert-amyl methyl ether	73	7.142	7.142	0.000	87	398708	20.0	19.4	
* 62 Fluorobenzene (IS)	96	7.355	7.355	0.001	99	1268772	50.0	50.0	
63 n-Heptane	43	7.373	7.379	-0.006	93	158957	20.0	17.3	
64 n-Butanol	56	7.744	7.756	-0.012	89	561750	1000.0	897.8	
66 Trichloroethene	95	7.841	7.841	0.000	98	129154	20.0	19.3	
67 Ethyl acrylate	55	7.969	7.969	0.000	98	228922	20.0	18.7	
68 Methylcyclohexane	83	8.152	8.151	0.001	91	226132	20.0	18.4	
69 1,2-Dichloropropane	63	8.176	8.176	0.000	98	134823	20.0	19.8	
70 2-ethoxy-2-methyl butane	87	8.194	8.194	0.000	93	181026	20.0	18.1	
73 1,4-Dioxane	88	8.267	8.267	0.000	50	74983	500.0	470.1	M
72 Methyl methacrylate	69	8.273	8.273	0.000	93	127548	20.0	18.6	
74 Dibromomethane	93	8.285	8.285	0.000	96	93498	20.0	19.6	
75 Dichlorobromomethane	83	8.529	8.529	0.000	100	158960	20.0	19.1	
76 2-Nitropropane	41	8.802	8.802	0.000	99	56176	20.0	18.1	
77 2-Chloroethyl vinyl ether	63	8.906	8.906	0.000	91	96415	20.0	19.6	
78 cis-1,3-Dichloropropene	75	9.094	9.094	0.000	97	198130	20.0	18.5	
79 4-Methyl-2-pentanone (MIBK)	43	9.283	9.289	-0.006	96	3090787	250.0	233.4	
$ 80 Toluene-d8 (Surr)	98	9.423	9.429	-0.006	93	1277743	50.0	50.1	
81 Toluene	92	9.502	9.502	0.000	98	318218	20.0	19.8	
82 trans-1,3-Dichloropropene	75	9.782	9.782	0.000	92	184063	20.0	19.6	
100 Ethyl methacrylate	69	9.855	9.855	0.000	91	209672	20.0	18.6	
118 1,1,2-Trichloroethane	97	9.989	9.989	0.000	89	123930	20.0	19.7	
119 Tetrachloroethene	166	10.080	10.080	0.000	96	133259	20.0	19.9	
120 1,3-Dichloropropane	76	10.159	10.159	0.000	91	192410	20.0	19.4	
123 2-Hexanone	43	10.220	10.220	0.000	96	2184015	250.0	242.2	
125 Chlorodibromomethane	129	10.378	10.378	0.000	90	131285	20.0	19.4	
127 Ethylene Dibromide	107	10.488	10.488	0.000	97	130742	20.0	19.8	
* 128 Chlorobenzene-d5 (IS)	117	10.938	10.938	0.000	85	946825	50.0	50.0	
129 1-Chlorohexane	91	10.956	10.956	0.000	98	160520	20.0	18.2	
130 Chlorobenzene	112	10.968	10.968	0.000	96	347937	20.0	19.4	
131 1,1,1,2-Tetrachloroethane	131	11.053	11.053	0.000	98	138213	20.0	19.8	
132 Ethylbenzene	91	11.059	11.059	0.000	98	619970	20.0	20.1	
134 m-Xylene & p-Xylene	106	11.181	11.175	0.006	99	490480	40.0	39.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
135 n-Butyl acrylate	55	11.467	11.467	0.000	97	317063	20.0	20.1	
136 o-Xylene	106	11.510	11.510	0.000	96	262295	20.0	19.6	
137 Styrene	104	11.528	11.528	0.000	95	393154	20.0	19.5	
138 Bromoform	173	11.680	11.680	0.000	97	98571	20.0	18.7	
139 Isopropylbenzene	105	11.820	11.820	0.000	95	681398	20.0	21.5	
141 Cyclohexanone	55	11.887	11.887	0.000	92	275296	500.0	379.7	
$ 142 4-Bromofluorobenzene (Surr)	95	11.960	11.960	0.000	90	463418	50.0	49.8	
143 1,1,2,2-Tetrachloroethane	83	12.069	12.069	0.000	93	232302	20.0	19.2	
144 Bromobenzene	156	12.075	12.075	0.000	93	154144	20.0	19.5	
145 trans-1,4-Dichloro-2-butene	53	12.094	12.094	0.000	93	315539	100.0	97.5	
146 1,2,3-Trichloropropane	110	12.112	12.112	0.000	81	65408	20.0	19.0	
147 N-Propylbenzene	91	12.155	12.154	0.001	99	763351	20.0	20.4	
148 2-Chlorotoluene	126	12.228	12.227	0.001	97	159653	20.0	19.5	
149 1,3,5-Trimethylbenzene	105	12.294	12.294	0.000	95	575836	20.0	19.9	
150 4-Chlorotoluene	126	12.319	12.319	0.000	97	152129	20.0	19.3	
153 tert-Butylbenzene	134	12.538	12.538	0.000	92	109130	20.0	19.5	
155 1,2,4-Trimethylbenzene	105	12.580	12.580	0.000	97	588700	20.0	20.0	
156 sec-Butylbenzene	105	12.702	12.702	0.000	94	731244	20.0	20.0	
158 1,3-Dichlorobenzene	146	12.799	12.793	0.006	98	306432	20.0	19.7	
159 4-Isopropyltoluene	119	12.812	12.811	0.001	97	631269	20.0	19.5	
* 160 1,4-Dichlorobenzene-d4	152	12.854	12.854	0.000	93	554503	50.0	50.0	
161 1,4-Dichlorobenzene	146	12.872	12.872	0.000	95	311175	20.0	19.8	
162 1,2,3-Trimethylbenzene	105	12.885	12.884	0.001	98	596545	20.0	18.8	
163 Benzyl chloride	91	12.945	12.945	0.000	98	435127	20.0	18.6	
164 1,3-Diethylbenzene	119	13.012	13.012	0.000	95	381689	20.0	19.8	
165 p-Diethylbenzene	119	13.085	13.085	0.000	94	402361	20.0	19.9	
166 n-Butylbenzene	92	13.104	13.103	0.001	97	314227	20.0	19.3	
167 1,2-Dichlorobenzene	146	13.128	13.128	0.000	99	328443	20.0	19.8	
168 o-diethylbenzene	119	13.158	13.158	0.000	94	316740	20.0	19.5	
170 1,2-Dibromo-3-Chloropropane	75	13.675	13.675	0.000	89	66100	20.0	18.2	
171 1,3,5-Trichlorobenzene	180	13.803	13.803	0.000	98	257430	20.0	19.7	
172 1,2,4-Trichlorobenzene	180	14.229	14.229	0.000	94	264756	20.0	20.3	
173 2-Ethylhexyl acrylate	55	14.296	14.296	0.000	79	239331	20.0	21.2	
174 Hexachlorobutadiene	225	14.314	14.314	0.000	96	101423	20.0	20.1	
175 Naphthalene	128	14.405	14.405	0.000	97	976920	20.0	20.3	
176 1,2,3-Trichlorobenzene	180	14.551	14.551	0.000	95	259792	20.0	20.1	
177 2-Methylnaphthalene	142	15.154	15.154	0.000	92	541611	20.0	21.8	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00167	Amount Added:	50.00	Units: uL	
MSV_LCS_2CEVE_00172	Amount Added:	50.00	Units: uL	
MSV_LCS_ACROL_00168	Amount Added:	50.00	Units: uL	
MSV_LCS_ETOH_00006	Amount Added:	50.00	Units: uL	
MSV_LCS_Gases_00198	Amount Added:	50.00	Units: uL	
MSV_LCS_CYC_00008	Amount Added:	50.00	Units: uL	
MSV_LCS_OH_Sp_00013	Amount Added:	50.00	Units: uL	
MSV_HP04_ISSS_00003	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 23-May-2024 08:36:13 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X19.D

Injection Date: 21-May-2024 04:00:30 Instrument ID: 23297 Operator ID: MEC29284

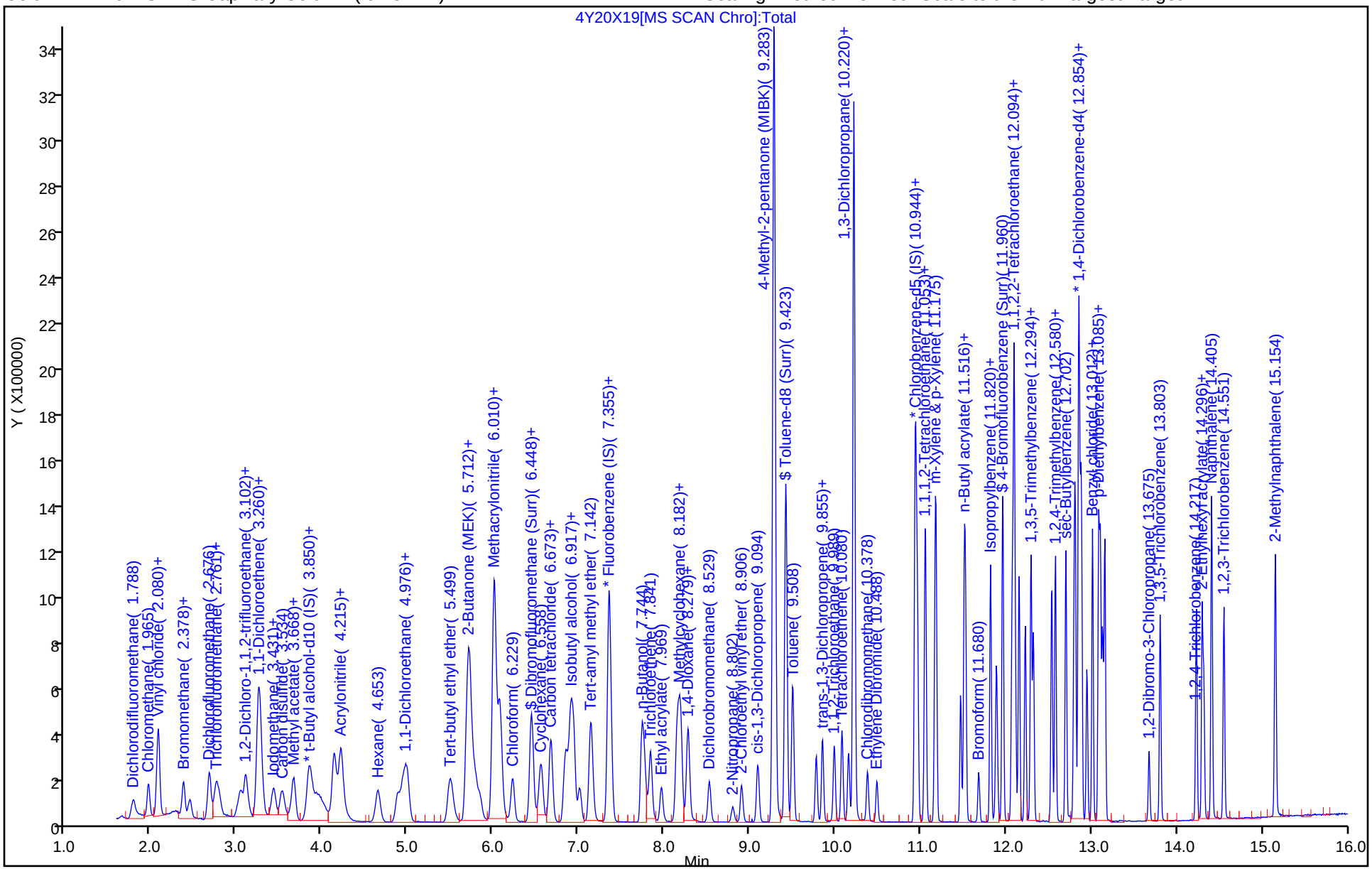
Lims ID: ICV Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 19

Method: MSVoa_23297 Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

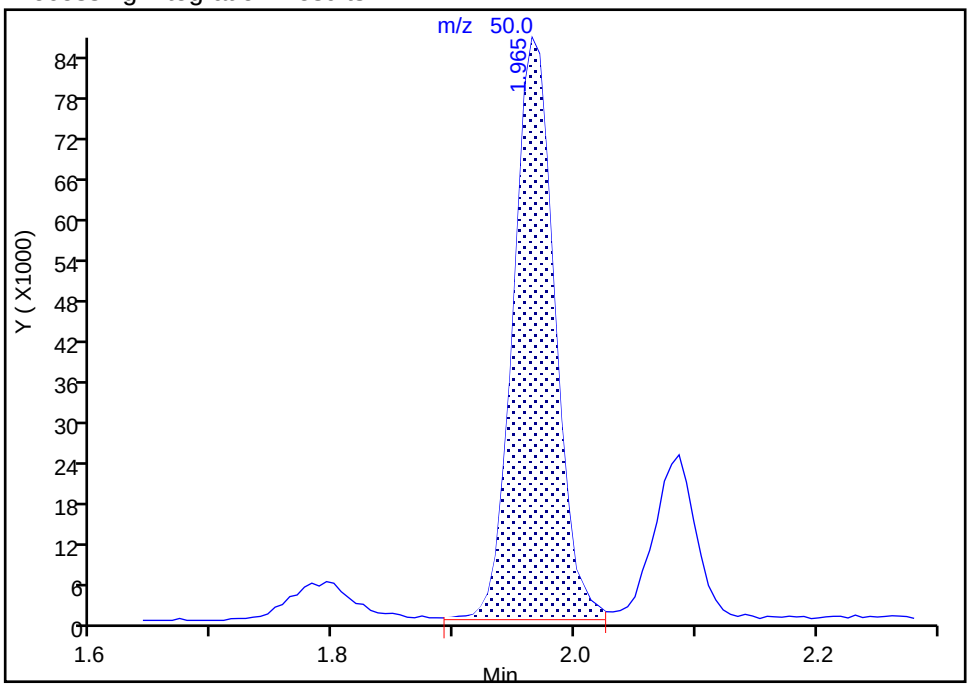
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X19.D
Injection Date: 21-May-2024 04:00:30 Instrument ID: 23297
Lims ID: ICV
Client ID:
Operator ID: MEC29284 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

4 Chloromethane, CAS: 74-87-3

Signal: 1

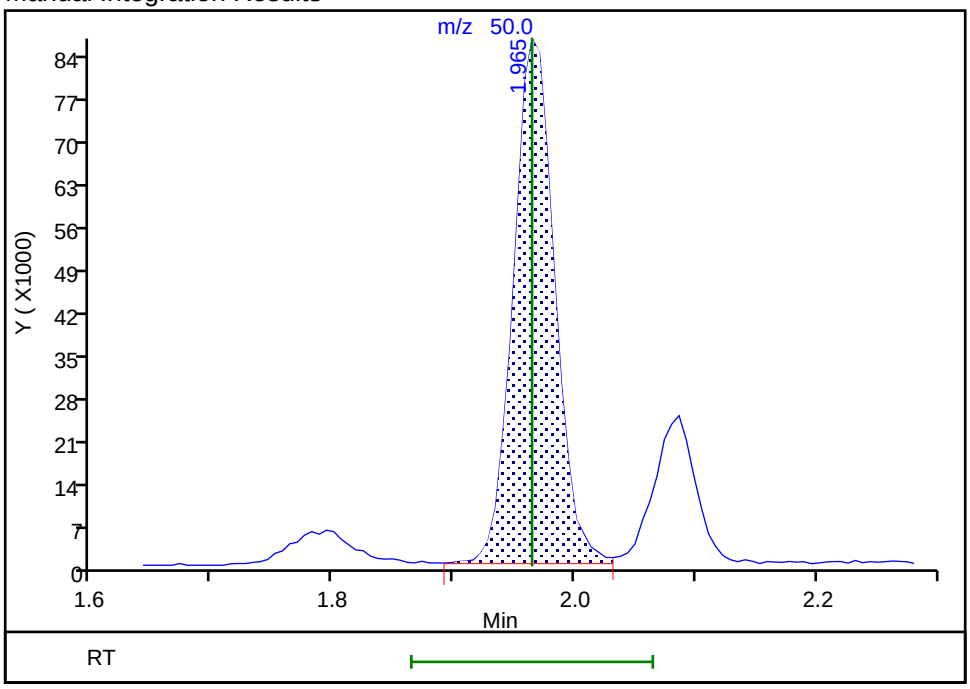
Processing Integration Results

RT: 1.96
Area: 205527
Amount: 16.911563
Amount Units: ug/l



Manual Integration Results

RT: 1.96
Area: 204056
Amount: 16.790523
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 17:18:17 -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

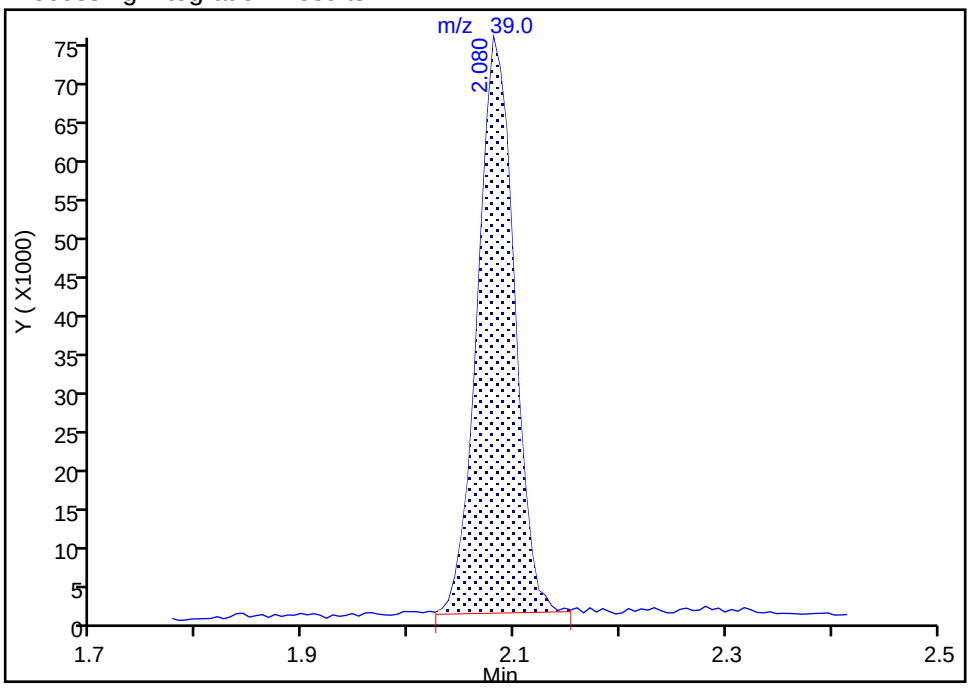
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X19.D
Injection Date: 21-May-2024 04:00:30 Instrument ID: 23297
Lims ID: ICV
Client ID:
Operator ID: MEC29284 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

6 Butadiene, CAS: 106-99-0

Signal: 1

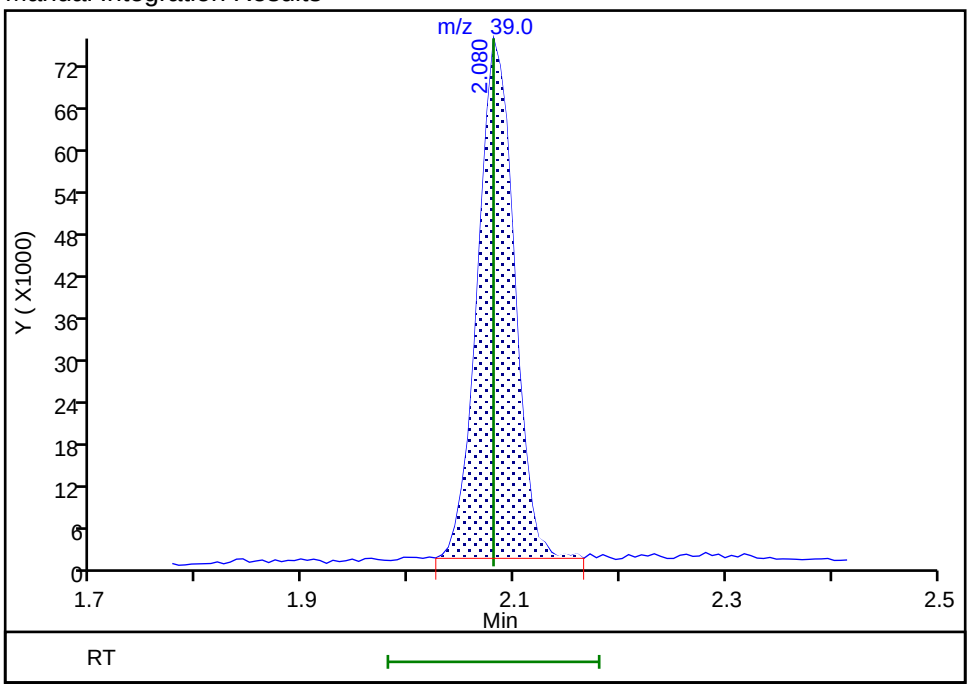
Processing Integration Results

RT: 2.08
Area: 178859
Amount: 16.058879
Amount Units: ug/l



Manual Integration Results

RT: 2.08
Area: 179478
Amount: 16.114456
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 17:18:31 -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

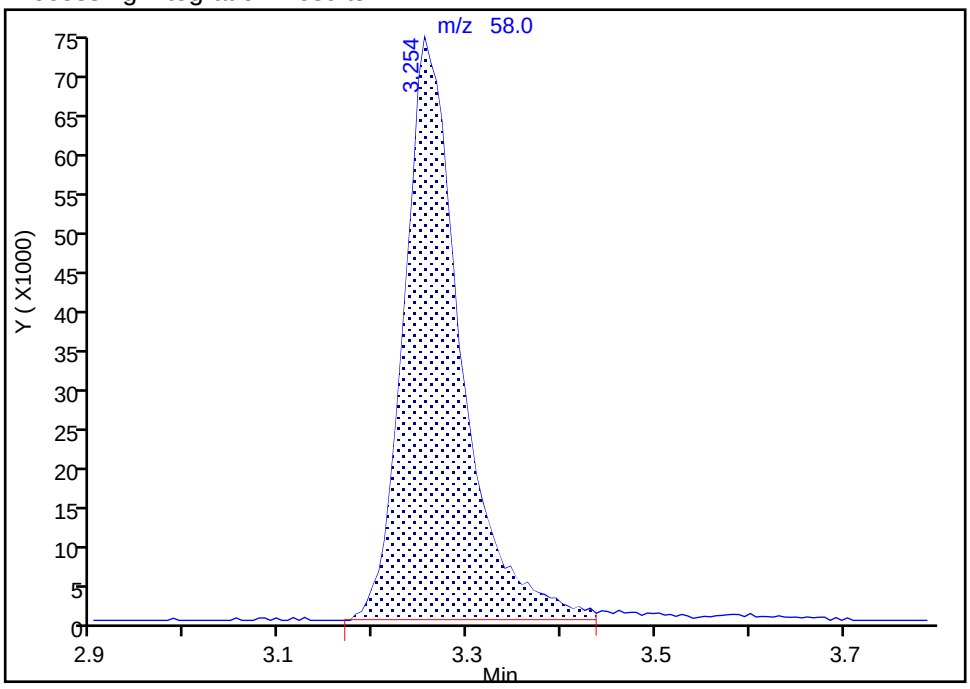
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X19.D
Injection Date: 21-May-2024 04:00:30 Instrument ID: 23297
Lims ID: ICV
Client ID:
Operator ID: MEC29284 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

18 Acetone, CAS: 67-64-1

Signal: 1

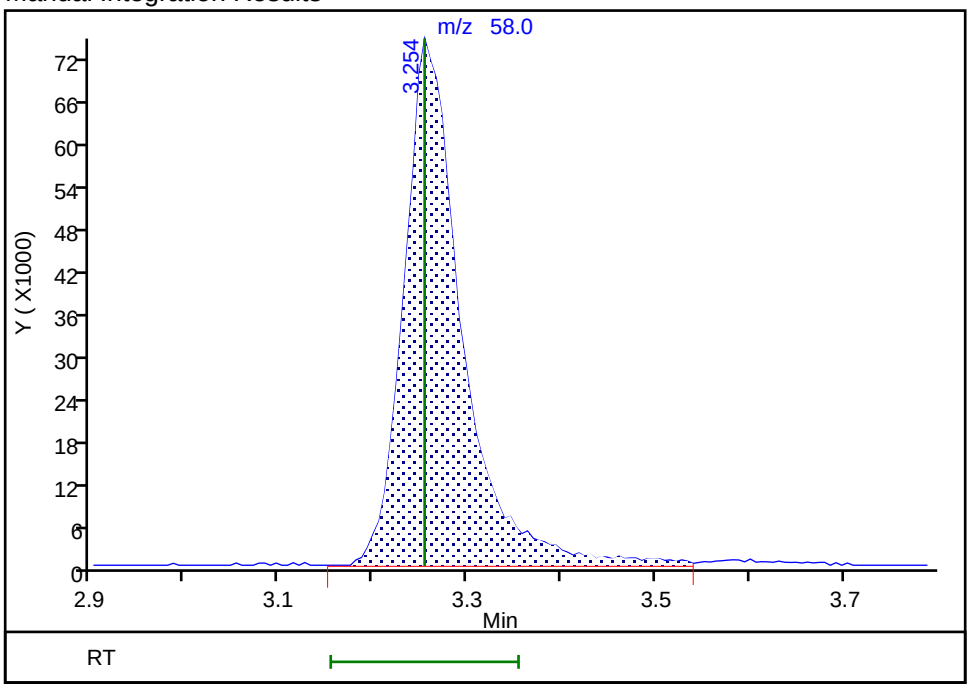
Processing Integration Results

RT: 3.25
Area: 316606
Amount: 223.3206
Amount Units: ug/l



Manual Integration Results

RT: 3.25
Area: 321902
Amount: 227.0562
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 17:20:36 -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

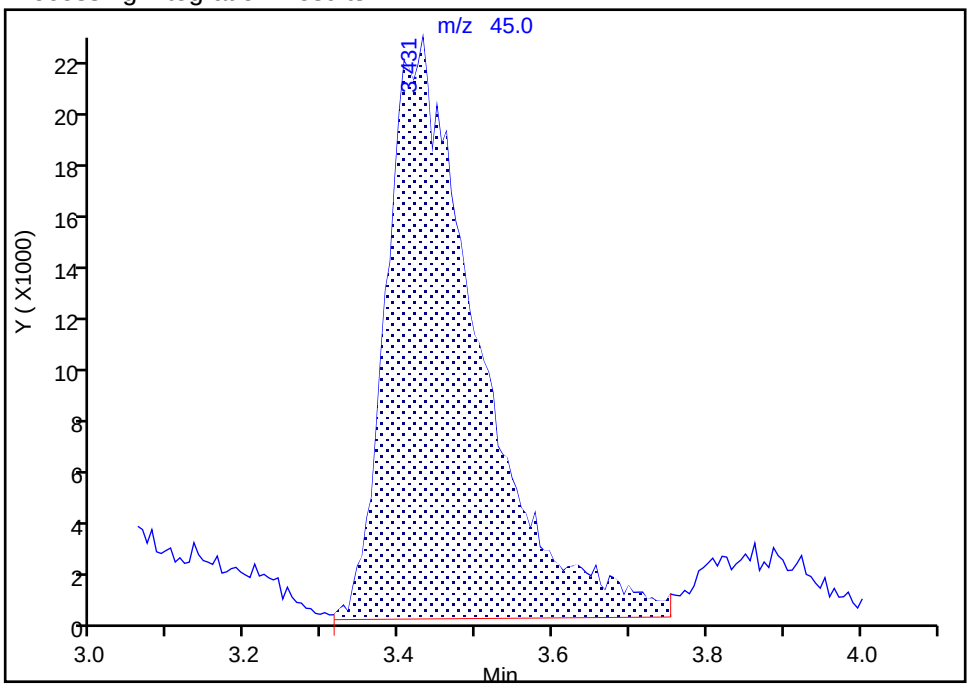
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X19.D
Injection Date: 21-May-2024 04:00:30 Instrument ID: 23297
Lims ID: ICV
Client ID:
Operator ID: MEC29284 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

20 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

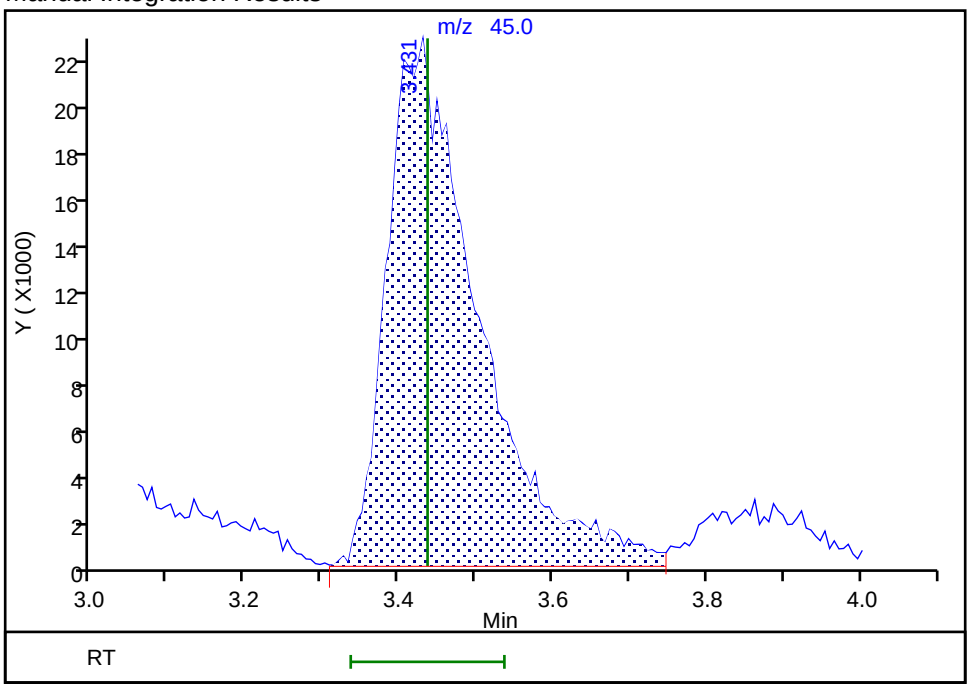
Processing Integration Results

RT: 3.43
Area: 183761
Amount: 130.1777
Amount Units: ug/l



Manual Integration Results

RT: 3.43
Area: 180034
Amount: 127.5375
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 17:21:00 -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

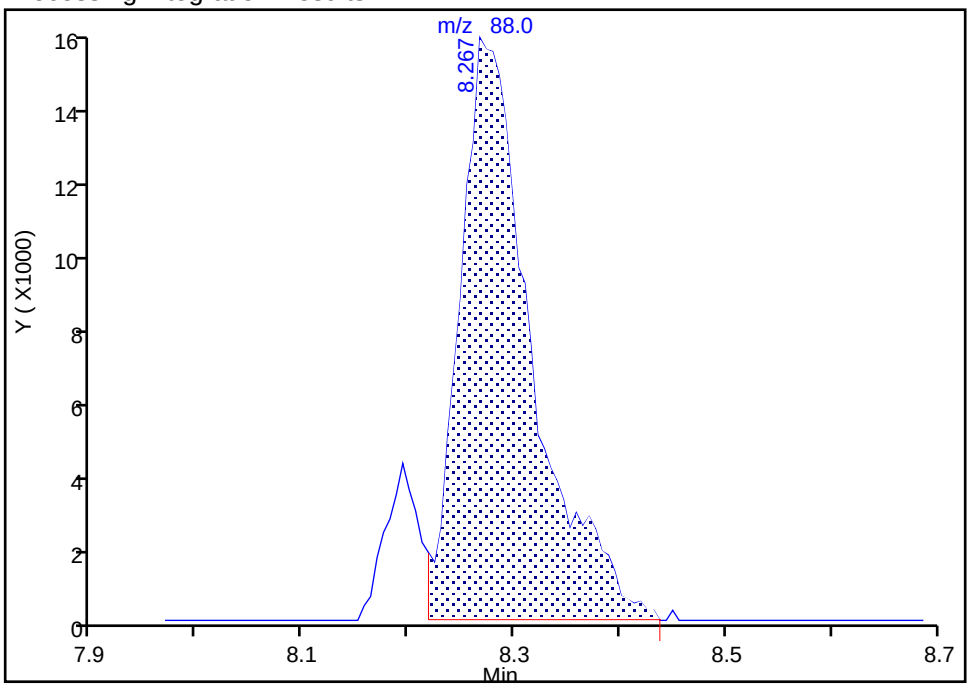
Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X19.D
Injection Date: 21-May-2024 04:00:30 Instrument ID: 23297
Lims ID: ICV
Client ID:
Operator ID: MEC29284 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

73 1,4-Dioxane, CAS: 123-91-1

Signal: 1

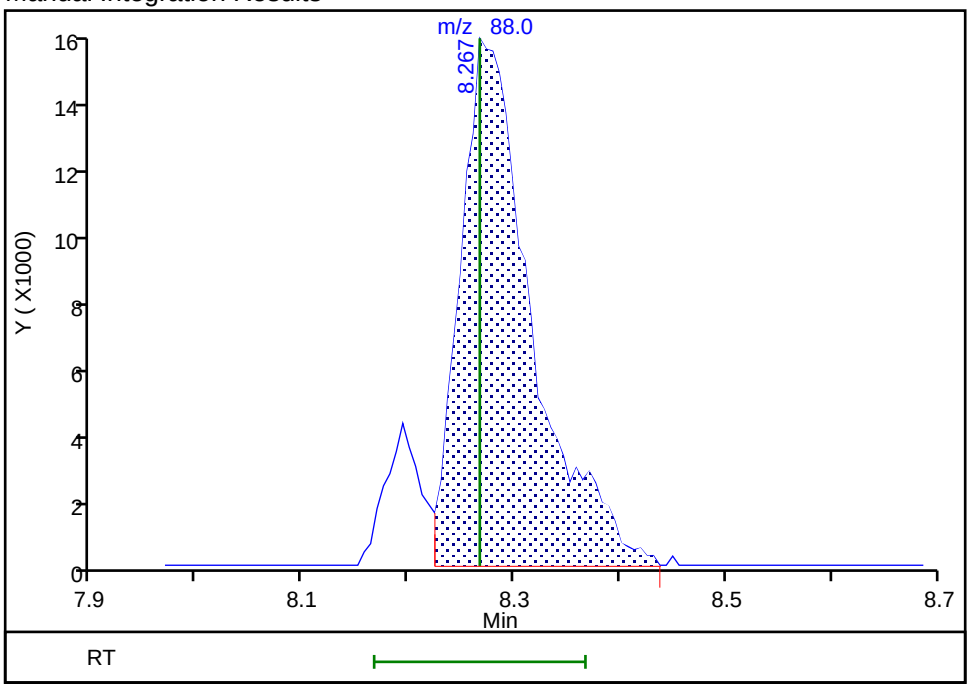
Processing Integration Results

RT: 8.27
Area: 75658
Amount: 508.9405
Amount Units: ug/l



Manual Integration Results

RT: 8.27
Area: 74983
Amount: 470.0857
Amount Units: ug/l



Reviewer: K4WN, 21-May-2024 17:21:17 -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.: 410-177784-1

SDG No.:

Lab Sample ID: CCVIS 410-525900/3 Calibration Date: 07/09/2024 09:28

Instrument ID: 23297 Calib Start Date: 05/21/2024 01:00

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 05/21/2024 03:15

Lab File ID: 4L09X02.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	0.4415	0.3304	0.1000	37.4	50.0	-25.2*	20.0
Chloromethane	Ave	0.4789	0.3304	0.1000	34.5	50.0	-31.0*	20.0
Vinyl chloride	Ave	0.4462	0.3151	0.1000	35.3	50.0	-29.4*	20.0
1,3-Butadiene	Ave	0.4389	0.4304		49.0	50.0	-1.9	20.0
Bromomethane	Ave	0.3291	0.2427	0.1000	36.9	50.0	-26.3*	20.0
Chloroethane	Ave	0.2388	0.1840	0.1000	38.5	50.0	-22.9*	20.0
Dichlorofluoromethane	Ave	0.6542	0.5132		39.2	50.0	-21.5*	20.0
Trichlorofluoromethane	Ave	0.4697	0.3843	0.1000	40.9	50.0	-18.2	20.0
n-Pentane	Ave	0.4009	0.4006		50.0	50.0	-0.0	20.0
Freon 123a	Ave	0.3348	0.2628		39.3	50.0	-21.5*	20.0
Acrolein	Ave	1.104	1.191		541	501	7.9	20.0
1,1-Dichloroethene	Ave	0.2303	0.2399	0.1000	52.1	50.0	4.2	20.0
Acetone	Ave	0.6134	0.6709	0.1000	109	100	9.4	20.0
Freon 113	Ave	0.2619	0.2735	0.1000	52.2	50.0	4.4	20.0
2-Propanol	Ave	0.6108	0.5327		218	250	-12.8	20.0
Methyl iodide	Ave	0.4842	0.5248		54.2	50.0	8.4	20.0
Carbon disulfide	Ave	0.8607	0.9133	0.1000	53.1	50.0	6.1	20.0
Methyl acetate	Ave	0.3477	0.3214	0.1000	46.2	50.0	-7.6	20.0
Allyl chloride	Ave	0.3810	0.3567		46.8	50.0	-6.4	20.0
Methylene Chloride	Ave	0.2871	0.2950	0.1000	51.4	50.0	2.8	20.0
t-Butyl alcohol	Ave	1.043	0.9075		218	250	-13.0	20.0
Acrylonitrile	Ave	0.1848	0.1748		118	125	-5.4	20.0
Methyl tert-butyl ether	Ave	0.8558	0.8137	0.1000	47.5	50.0	-4.9	20.0
trans-1,2-Dichloroethene	Ave	0.2449	0.2471	0.1000	50.5	50.0	0.9	20.0
n-Hexane	Ave	0.3277	0.3276		50.0	50.0	-0.0	20.0
1,1-Dichloroethane	Ave	0.4248	0.4198	0.2000	49.4	50.0	-1.2	20.0
Isopropyl ether	Ave	0.8251	0.7707		46.7	50.0	-6.6	20.0
2-Chloro-1,3-butadiene	Ave	0.3556	0.3400		47.8	50.0	-4.4	20.0
Ethyl t-butyl ether	Ave	0.8153	0.7499		46.0	50.0	-8.0	20.0
2-Butanone (MEK)	Ave	0.2626	0.2426	0.1000	92.4	100	-7.6	20.0
cis-1,2-Dichloroethene	Ave	0.2841	0.2782	0.1000	49.0	50.0	-2.1	20.0
2,2-Dichloropropane	Ave	0.4191	0.3912		46.7	50.0	-6.7	20.0
Propionitrile	Ave	0.9469	1.007		266	250	6.3	20.0
Methacrylonitrile	Ave	0.1849	0.1738		117	125	-6.0	20.0
Bromochloromethane	Ave	0.1468	0.1513		51.5	50.0	3.1	20.0
Tetrahydrofuran	Ave	0.8491	0.8926		263	250	5.1	20.0
Chloroform	Lin2		0.4273	0.2000	47.1	50.0	-5.8	20.0
1,1,1-Trichloroethane	Ave	0.3972	0.4026	0.1000	50.7	50.0	1.3	20.0
Cyclohexane	Ave	0.4843	0.4561	0.1000	47.1	50.0	-5.8	20.0
1,1-Dichloropropene	Ave	0.3366	0.3259		48.4	50.0	-3.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1

SDG No.:

Lab Sample ID: CCVIS 410-525900/3 Calibration Date: 07/09/2024 09:28

Instrument ID: 23297 Calib Start Date: 05/21/2024 01:00

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 05/21/2024 03:15

Lab File ID: 4L09X02.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	0.3275	0.3501	0.1000	53.4	50.0	6.9	20.0
Isobutyl alcohol	Ave	0.3375	0.3129		579	625	-7.3	20.0
Benzene	Ave	1.025	0.998	0.5000	48.7	50.0	-2.6	20.0
1,2-Dichloroethane	Ave	0.3324	0.3278	0.1000	49.3	50.0	-1.4	20.0
t-Amyl methyl ether	Ave	0.8099	0.7553		46.6	50.0	-6.7	20.0
n-Heptane	Ave	0.3629	0.3559		49.0	50.0	-1.9	20.0
n-Butanol	Ave	0.2707	0.2450		566	625	-9.5	20.0
Trichloroethene	Ave	0.2635	0.2600	0.2000	49.3	50.0	-1.3	20.0
Methylcyclohexane	Ave	0.4847	0.4877	0.1000	50.3	50.0	0.6	20.0
1,2-Dichloropropane	Ave	0.2683	0.2622	0.1000	48.9	50.0	-2.3	20.0
t-Amyl ethyl ether	Ave	0.3935	0.3774		48.0	50.0	-4.1	20.0
1,4-Dioxane	Ave	0.0690	0.0681	0.0050	616	625	-1.4	20.0
Methyl methacrylate	Ave	0.2700	0.2405		44.5	50.0	-10.9	20.0
Dibromomethane	Ave	0.1878	0.1876		49.9	50.0	-0.1	20.0
Bromodichloromethane	Ave	0.3273	0.3250	0.2000	49.6	50.0	-0.7	20.0
2-Nitropropane	Ave	1.344	1.414		263	250	5.2	20.0
2-Chloroethyl vinyl ether	Ave	0.1940	0.1665		42.9	50.0	-14.2	20.0
cis-1,3-Dichloropropene	Ave	0.4218	0.4014	0.2000	47.6	50.0	-4.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.5219	0.4778	0.1000	91.5	100	-8.5	20.0
Toluene	Ave	0.8479	0.8694	0.4000	51.3	50.0	2.5	20.0
trans-1,3-Dichloropropene	Ave	0.4957	0.4975	0.1000	50.2	50.0	0.4	20.0
Ethyl methacrylate	Ave	0.5941	0.5593		47.1	50.0	-5.8	20.0
1,1,2-Trichloroethane	Ave	0.3327	0.3371	0.1000	50.7	50.0	1.3	20.0
Tetrachloroethene	Ave	0.3529	0.3838	0.2000	54.4	50.0	8.7	20.0
1,3-Dichloropropane	Ave	0.5237	0.5387		51.4	50.0	2.9	20.0
2-Hexanone	Ave	0.4762	0.4631	0.1000	97.2	100	-2.8	20.0
Dibromochloromethane	Ave	0.3569	0.3879		54.3	50.0	8.7	20.0
Ethylene Dibromide	Ave	0.3483	0.3650	0.1000	52.4	50.0	4.8	20.0
1-Chlorohexane	Ave	0.4659	0.4412		47.4	50.0	-5.3	20.0
Chlorobenzene	Ave	0.9466	0.9883	0.5000	52.2	50.0	4.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3683	0.3912		53.1	50.0	6.2	20.0
Ethylbenzene	Ave	1.630	1.667	0.1000	51.1	50.0	2.3	20.0
m&p-Xylene	Ave	0.6500	0.6750	0.1000	104	100	3.8	20.0
o-Xylene	Ave	0.7068	0.7096	0.3000	50.2	50.0	0.4	20.0
Styrene	Ave	1.064	1.066	0.3000	50.1	50.0	0.2	20.0
Bromoform	Ave	0.2790	0.2940	0.1000	52.7	50.0	5.4	20.0
Isopropylbenzene	Ave	1.675	1.711	0.1000	51.1	50.0	2.1	20.0
1,1,2,2-Tetrachloroethane	Ave	1.091	1.099	0.3000	50.4	50.0	0.8	20.0
Bromobenzene	Ave	0.7132	0.7800		54.7	50.0	9.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2919	0.2029		86.9	125	-30.5*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1

SDG No.:

Lab Sample ID: CCVIS 410-525900/3 Calibration Date: 07/09/2024 09:28

Instrument ID: 23297 Calib Start Date: 05/21/2024 01:00

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 05/21/2024 03:15

Lab File ID: 4L09X02.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	0.3104	0.3214		51.8	50.0	3.5	20.0
N-Propylbenzene	Ave	3.375	3.480		51.6	50.0	3.1	20.0
2-Chlorotoluene	Ave	0.7370	0.7756		52.6	50.0	5.2	20.0
1,3,5-Trimethylbenzene	Ave	2.604	2.706		52.0	50.0	3.9	20.0
4-Chlorotoluene	Ave	0.7124	0.7423		52.1	50.0	4.2	20.0
tert-Butylbenzene	Ave	0.5041	0.5336		52.9	50.0	5.8	20.0
1,2,4-Trimethylbenzene	Ave	2.650	2.744		51.8	50.0	3.5	20.0
sec-Butylbenzene	Ave	3.299	3.465		52.5	50.0	5.0	20.0
1,3-Dichlorobenzene	Ave	1.405	1.499	0.6000	53.4	50.0	6.7	20.0
p-Isopropyltoluene	Ave	2.919	3.065		52.5	50.0	5.0	20.0
1,4-Dichlorobenzene	Ave	1.417	1.504	0.5000	53.1	50.0	6.2	20.0
1,2,3-Trimethylbenzene	Ave	2.856	2.912		51.0	50.0	2.0	20.0
Benzyl chloride	Ave	2.115	2.124		50.2	50.0	0.4	20.0
1,3-Diethylbenzene	Ave	1.742	1.790		51.4	50.0	2.7	20.0
1,4-Diethylbenzene	Ave	1.822	1.857		51.0	50.0	1.9	20.0
n-Butylbenzene	Ave	1.468	1.502		51.1	50.0	2.3	20.0
1,2-Dichlorobenzene	Ave	1.499	1.567	0.4000	52.3	50.0	4.6	20.0
1,2-Diethylbenzene	Ave	1.465	1.513		51.6	50.0	3.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.3272	0.3144	0.0500	48.0	50.0	-3.9	20.0
1,3,5-Trichlorobenzene	Ave	1.178	1.191		50.5	50.0	1.0	20.0
1,2,4-Trichlorobenzene	Ave	1.176	1.180	0.2000	50.2	50.0	0.3	20.0
Hexachlorobutadiene	Ave	0.4548	0.4604		50.6	50.0	1.2	20.0
Naphthalene	Ave	4.330	4.251		49.1	50.0	-1.8	20.0
1,2,3-Trichlorobenzene	Ave	1.168	1.156		49.5	50.0	-1.0	20.0
2-Methylnaphthalene	Ave	2.240	2.063		46.0	50.0	-7.9	20.0
Dibromofluoromethane (Surr)	Ave	0.2523	0.2611		51.7	50.0	3.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0615	0.0598		48.7	50.0	-2.6	20.0
Toluene-d8 (Surr)	Ave	1.345	1.351		50.2	50.0	0.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4917	0.4683		47.6	50.0	-4.8	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X02.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 09-Jul-2024 09:28:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118805-003
Misc. Info.: CCVIS
Operator ID: CLM27445 Instrument ID: 23297
Sublist: chrom-MSVoa_23297*sub50

Method: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2024 10:01:01 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1645

First Level Reviewer: TQ4J Date: 09-Jul-2024 10:00:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.800	1.800	0.000	99	427235	50.0	37.4	
4 Chloromethane	50	1.983	1.983	0.000	99	427213	50.0	34.5	
5 Vinyl chloride	62	2.086	2.086	0.000	98	407452	50.0	35.3	
6 Butadiene	39	2.098	2.098	0.000	93	556509	50.0	49.0	
8 Bromomethane	94	2.402	2.402	0.000	90	313784	50.0	36.9	
9 Chloroethane	64	2.482	2.482	0.000	100	237970	50.0	38.5	
10 Dichlorofluoromethane	67	2.694	2.694	0.000	97	663601	50.0	39.2	
11 Trichlorofluoromethane	101	2.743	2.743	0.000	98	496899	50.0	40.9	
12 Pentane	43	2.780	2.780	0.000	97	518001	50.0	50.0	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.059	3.059	0.000	91	339823	50.0	39.3	
16 Acrolein	56	3.114	3.114	0.000	99	1238725	501.1	540.8	
17 1,1-Dichloroethene	96	3.266	3.266	0.000	97	310170	50.0	52.1	
18 Acetone	58	3.272	3.272	0.000	84	139205	100.0	109.4	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.297	3.297	0.000	92	353604	50.0	52.2	
20 Isopropyl alcohol	45	3.437	3.437	0.000	97	276319	250.0	218.0	
21 Iodomethane	142	3.443	3.443	0.000	97	678571	50.0	54.2	
22 Carbon disulfide	76	3.546	3.546	0.000	99	1180825	50.0	53.1	
24 Methyl acetate	43	3.650	3.650	0.000	97	415567	50.0	46.2	
26 3-Chloro-1-propene	41	3.686	3.686	0.000	93	461152	50.0	46.8	
27 Methylene Chloride	84	3.862	3.862	0.000	91	381441	50.0	51.4	
* 28 t-Butyl alcohol-d10 (IS)	65	3.887	3.887	0.000	97	518736	250.0	250.0	
29 2-Methyl-2-propanol	59	3.996	3.996	0.000	99	470768	250.0	217.6	
30 Acrylonitrile	53	4.148	4.148	0.000	100	565050	125.0	118.2	
31 Methyl tert-butyl ether	73	4.221	4.221	0.000	95	1052111	50.0	47.5	
32 trans-1,2-Dichloroethene	96	4.234	4.234	0.000	99	319461	50.0	50.5	
34 Hexane	57	4.666	4.666	0.000	92	423532	50.0	50.0	
35 1,1-Dichloroethane	63	4.891	4.891	0.000	96	542776	50.0	49.4	
37 Isopropyl ether	45	4.958	4.958	0.000	94	996455	50.0	46.7	
38 2-Chloro-1,3-butadiene	53	5.000	5.000	0.000	89	439624	50.0	47.8	
39 Tert-butyl ethyl ether	59	5.505	5.505	0.000	97	969658	50.0	46.0	

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	5.718	5.718	0.000	100	627348	100.0	92.4	
41 cis-1,2-Dichloroethene	96	5.736	5.736	0.000	81	359709	50.0	49.0	
42 2,2-Dichloropropane	77	5.754	5.754	0.000	87	505760	50.0	46.7	
44 Propionitrile	54	5.791	5.791	0.000	99	522369	250.0	265.9	
47 Methacrylonitrile	67	6.016	6.016	0.000	92	561636	125.0	117.5	
48 Chlorobromomethane	128	6.071	6.071	0.000	91	195602	50.0	51.5	
49 Tetrahydrofuran	71	6.089	6.089	0.000	92	463048	250.0	262.8	
50 Chloroform	83	6.229	6.229	0.000	93	552520	50.0	47.1	
$ 51 Dibromofluoromethane (Surr)	113	6.448	6.448	0.000	93	337539	50.0	51.7	
52 1,1,1-Trichloroethane	97	6.454	6.454	0.000	98	520500	50.0	50.7	
53 Cyclohexane	56	6.570	6.570	0.000	89	589739	50.0	47.1	
55 1,1-Dichloropropene	75	6.673	6.673	0.000	95	421405	50.0	48.4	
54 Carbon tetrachloride	117	6.679	6.679	0.000	80	452621	50.0	53.4	
56 Isobutyl alcohol	41	6.850	6.850	0.000	94	405841	625.0	579.5	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	6.904	6.904	0.000	94	77379	50.0	48.7	
58 Benzene	78	6.941	6.941	0.000	96	1290251	50.0	48.7	
59 1,2-Dichloroethane	62	7.014	7.014	0.000	97	423811	50.0	49.3	
61 Tert-amyl methyl ether	73	7.148	7.148	0.000	99	976593	50.0	46.6	
* 62 Fluorobenzene (IS)	96	7.354	7.354	0.000	99	1292970	50.0	50.0	
63 n-Heptane	43	7.379	7.379	0.000	92	460230	50.0	49.0	
64 n-Butanol	56	7.750	7.750	0.000	90	317684	625.0	565.6	
66 Trichloroethene	95	7.841	7.841	0.000	97	336153	50.0	49.3	
68 Methylcyclohexane	83	8.151	8.151	0.000	91	630624	50.0	50.3	
69 1,2-Dichloropropane	63	8.176	8.176	0.000	97	338954	50.0	48.9	
70 2-ethoxy-2-methyl butane	87	8.194	8.194	0.000	94	488004	50.0	48.0	
73 1,4-Dioxane	88	8.267	8.267	0.000	35	88262	625.0	616.3	
72 Methyl methacrylate	69	8.273	8.273	0.000	92	310974	50.0	44.5	
74 Dibromomethane	93	8.285	8.285	0.000	93	242503	50.0	49.9	
75 Dichlorobromomethane	83	8.529	8.529	0.000	100	420260	50.0	49.6	
76 2-Nitropropane	41	8.802	8.802	0.000	97	733277	250.0	263.0	
77 2-Chloroethyl vinyl ether	63	8.906	8.906	0.000	92	215249	50.0	42.9	
78 cis-1,3-Dichloropropene	75	9.094	9.094	0.000	97	518959	50.0	47.6	
79 4-Methyl-2-pentanone (MIBK)	43	9.283	9.283	0.000	96	1235490	100.0	91.5	
$ 80 Toluene-d8 (Surr)	98	9.423	9.423	0.000	93	1270567	50.0	50.2	
81 Toluene	92	9.502	9.502	0.000	99	817650	50.0	51.3	
82 trans-1,3-Dichloropropene	75	9.776	9.776	0.000	92	467885	50.0	50.2	
100 Ethyl methacrylate	69	9.849	9.849	0.000	90	526023	50.0	47.1	
118 1,1,2-Trichloroethane	97	9.989	9.989	0.000	90	317008	50.0	50.7	
119 Tetrachloroethene	166	10.080	10.080	0.000	97	360937	50.0	54.4	
120 1,3-Dichloropropane	76	10.153	10.153	0.000	90	506601	50.0	51.4	
123 2-Hexanone	43	10.220	10.220	0.000	96	870998	100.0	97.2	
125 Chlorodibromomethane	129	10.378	10.378	0.000	90	364769	50.0	54.3	
127 Ethylene Dibromide	107	10.487	10.487	0.000	99	343274	50.0	52.4	
* 128 Chlorobenzene-d5 (IS)	117	10.938	10.938	0.000	84	940475	50.0	50.0	
129 1-Chlorohexane	91	10.950	10.950	0.000	97	414952	50.0	47.4	
130 Chlorobenzene	112	10.962	10.962	0.000	97	929494	50.0	52.2	
131 1,1,1,2-Tetrachloroethane	131	11.047	11.047	0.000	97	367886	50.0	53.1	
132 Ethylbenzene	91	11.053	11.053	0.000	98	1567986	50.0	51.1	
134 m-Xylene & p-Xylene	106	11.175	11.175	0.000	99	1269575	100.0	103.8	
136 o-Xylene	106	11.510	11.510	0.000	95	667339	50.0	50.2	
137 Styrene	104	11.522	11.522	0.000	95	1002529	50.0	50.1	
138 Bromoform	173	11.674	11.674	0.000	97	276504	50.0	52.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
139 Isopropylbenzene	105	11.814	11.814	0.000	95	1608766	50.0	51.1	
$ 142 4-Bromofluorobenzene (Surr)	95	11.954	11.954	0.000	92	440404	50.0	47.6	
143 1,1,2,2-Tetrachloroethane	83	12.063	12.063	0.000	94	593243	50.0	50.4	
144 Bromobenzene	156	12.069	12.069	0.000	94	420897	50.0	54.7	
145 trans-1,4-Dichloro-2-butene	53	12.087	12.087	0.000	87	273733	125.0	86.9	
146 1,2,3-Trichloropropane	110	12.106	12.106	0.000	83	173442	50.0	51.8	
147 N-Propylbenzene	91	12.148	12.148	0.000	98	1877972	50.0	51.6	
148 2-Chlorotoluene	126	12.221	12.221	0.000	98	418511	50.0	52.6	
149 1,3,5-Trimethylbenzene	105	12.288	12.288	0.000	94	1460223	50.0	52.0	
150 4-Chlorotoluene	126	12.313	12.313	0.000	97	400567	50.0	52.1	
153 tert-Butylbenzene	134	12.532	12.532	0.000	92	287924	50.0	52.9	
155 1,2,4-Trimethylbenzene	105	12.574	12.574	0.000	97	1480553	50.0	51.8	
156 sec-Butylbenzene	105	12.696	12.696	0.000	94	1869476	50.0	52.5	
158 1,3-Dichlorobenzene	146	12.793	12.793	0.000	98	809063	50.0	53.4	
159 4-Isopropyltoluene	119	12.805	12.805	0.000	97	1653612	50.0	52.5	
* 160 1,4-Dichlorobenzene-d4	152	12.848	12.848	0.000	93	539599	50.0	50.0	
161 1,4-Dichlorobenzene	146	12.866	12.866	0.000	95	811786	50.0	53.1	
162 1,2,3-Trimethylbenzene	105	12.878	12.878	0.000	98	1571570	50.0	51.0	
163 Benzyl chloride	91	12.939	12.939	0.000	98	1146292	50.0	50.2	
164 1,3-Diethylbenzene	119	13.006	13.006	0.000	95	965671	50.0	51.4	
165 p-Diethylbenzene	119	13.079	13.079	0.000	94	1002056	50.0	51.0	
166 n-Butylbenzene	92	13.097	13.097	0.000	97	810268	50.0	51.1	
167 1,2-Dichlorobenzene	146	13.128	13.128	0.000	99	845432	50.0	52.3	
168 o-diethylbenzene	119	13.152	13.152	0.000	94	816419	50.0	51.6	
170 1,2-Dibromo-3-Chloropropane	75	13.669	13.669	0.000	91	169676	50.0	48.0	
171 1,3,5-Trichlorobenzene	180	13.797	13.797	0.000	98	642405	50.0	50.5	
172 1,2,4-Trichlorobenzene	180	14.223	14.223	0.000	95	636704	50.0	50.2	
174 Hexachlorobutadiene	225	14.308	14.308	0.000	98	248427	50.0	50.6	
175 Naphthalene	128	14.399	14.399	0.000	97	2293604	50.0	49.1	
176 1,2,3-Trichlorobenzene	180	14.545	14.545	0.000	96	623735	50.0	49.5	
177 2-Methylnaphthalene	142	15.148	15.148	0.000	92	1113290	50.0	46.0	

QC Flag Legend

Processing Flags

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_00811	Amount Added:	2.50	Units: uL	
MSV_HP04_ISSS_00003	Amount Added:	1.00	Units: uL	Run Reagent

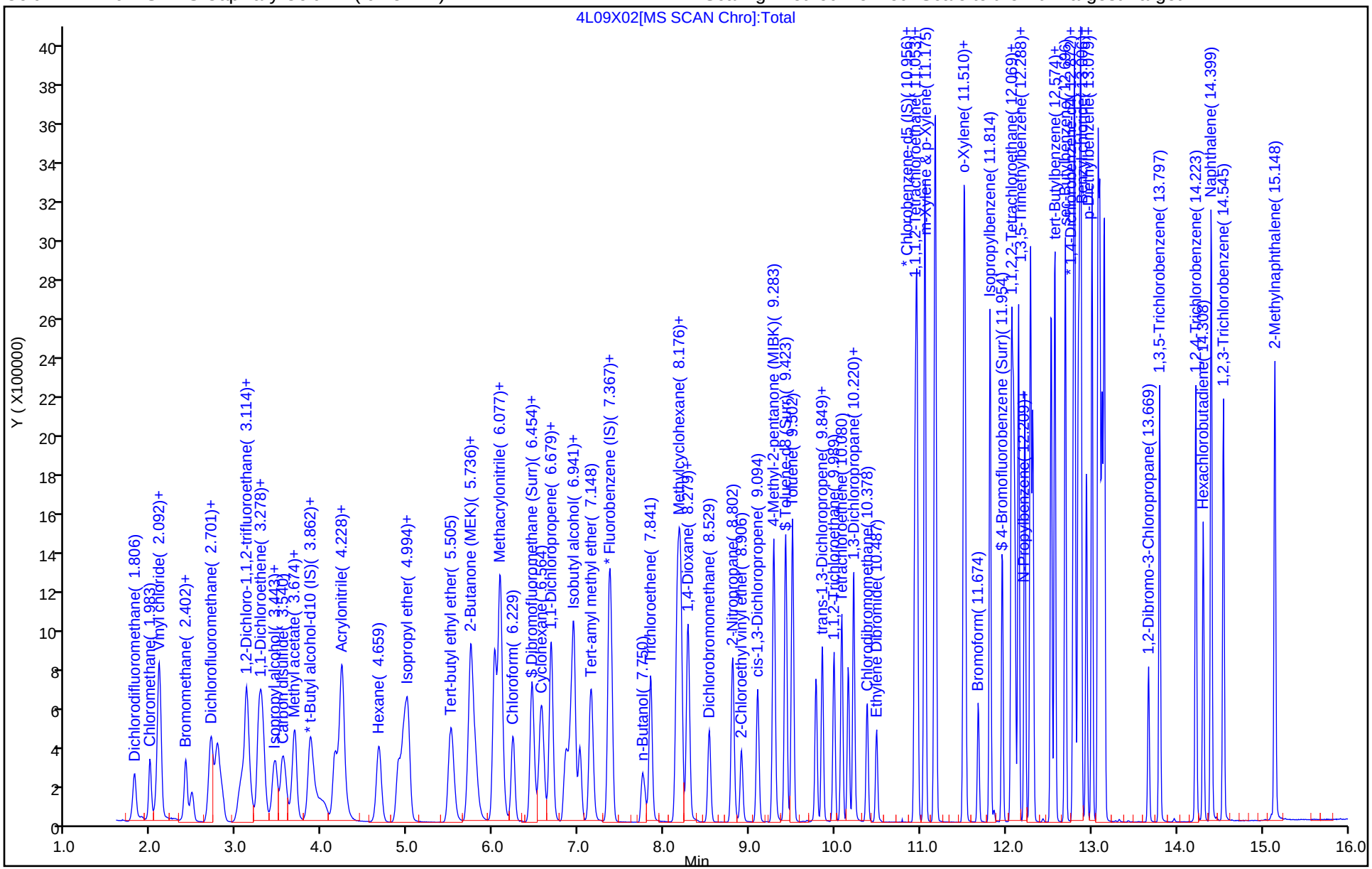
Report Date: 09-Jul-2024 10:01:02 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X02.D

Injection Date:	09-Jul-2024 09:28:30	Instrument ID:	23297	Operator ID:	CLM27445
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20T01.D				
Lims ID:	bfb				
Client ID:					
Sample Type:	BFB				
Inject. Date:	20-May-2024 20:57:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0114468-001				
Misc. Info.:	BFB				
Operator ID:	MEC29284	Instrument ID:	23297		
Method:	\\chromfs\Lancaster\ChromData\23297\20240520-114468.b\MSVoa_23297.m				
Limit Group:	MSV - 8260C_D				
Last Update:	21-May-2024 17:35:06	Calib Date:	21-May-2024 03:15:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1687				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 33 BFB	95	4.583	4.583	0.000	0	562616	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

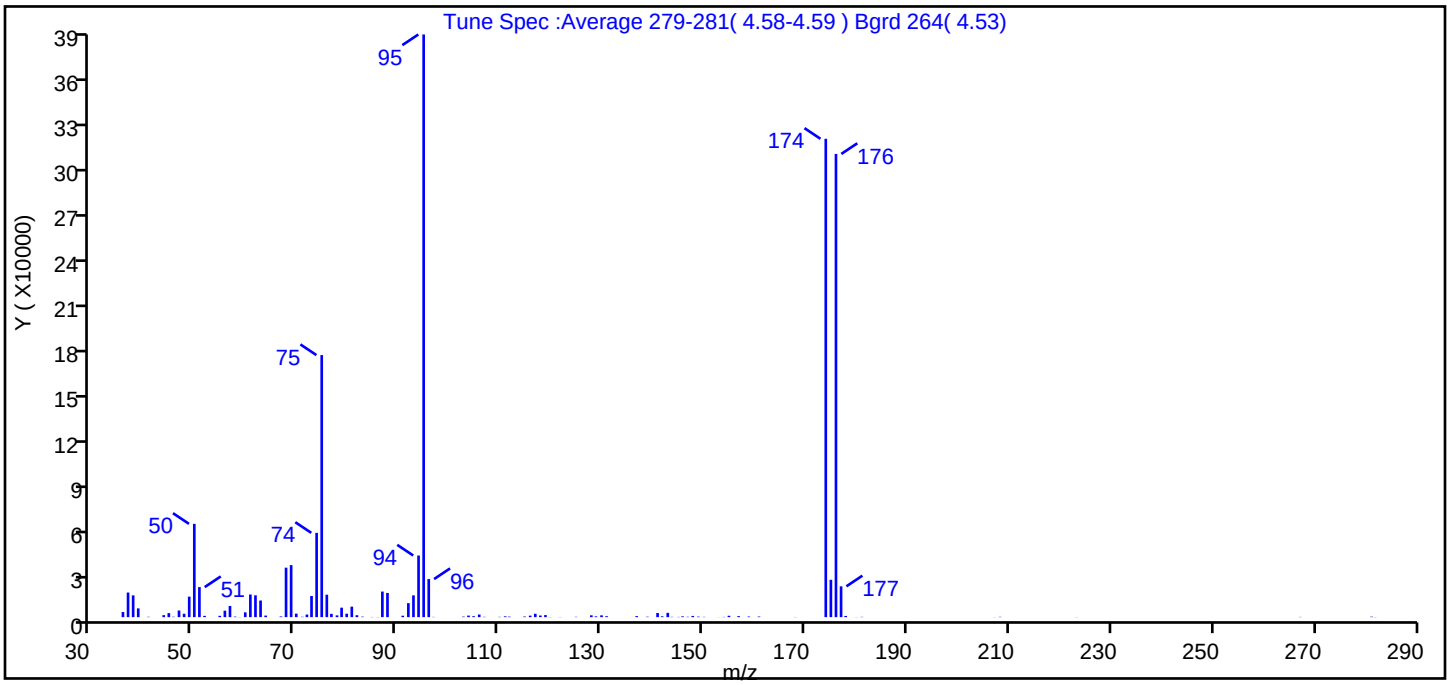
MSV_V_BFB_00016 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20T01.D				
Injection Date:	20-May-2024 20:57:30	Instrument ID:	23297		
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_23297	Limit Group:	MSV - 8260C_D		
Tune Method:	BFB Method 8260				

$ 33 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.0
75	30 to 60% of m/z 95	45.0
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	82.1
175	5 to 9% of m/z 174	6.4 (7.8)
176	Greater than 95% but less than 101% of m/z 174	79.5 (96.8)
177	5 to 9% of m/z 176	5.3 (6.7)

Data File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20T01.D\MSVoa_23297.rslt\spectra.d
Injection Date: 20-May-2024 20:57:30
Spectrum: Tune Spec :Average 279-281(4.58-4.59) Bgrd 264(4.53)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 104

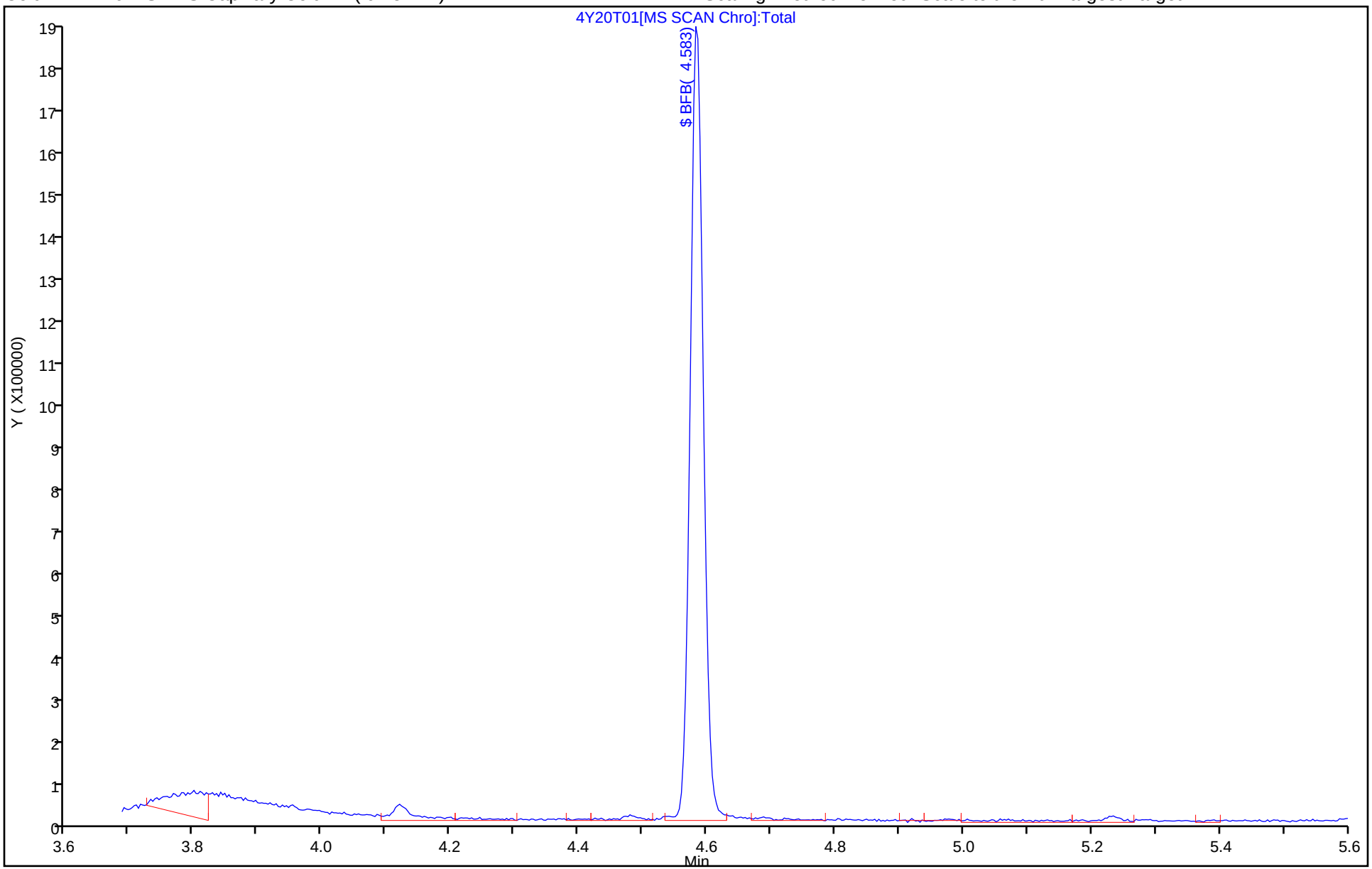
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3378	69.00	34088	103.00	339	145.00	151
37.00	16118	70.00	2287	104.00	1025	146.00	509
38.00	14264	71.00	242	105.00	610	147.00	225
39.00	5744	72.00	1702	106.00	1725	148.00	792
41.00	230	73.00	13864	107.00	211	149.00	335
44.00	1311	74.00	55216	110.00	192	150.00	189
45.00	2647	75.00	171712	111.00	522	153.00	49
46.00	258	76.00	14702	112.00	337	154.00	148
47.00	4342	77.00	2160	115.00	410	155.00	904
48.00	2217	78.00	1166	116.00	976	157.00	655
49.00	13447	79.00	6221	117.00	2200	159.00	391
50.00	61120	80.00	2243	118.00	1063	161.00	402
51.00	19688	81.00	6876	119.00	1342	168.00	105
52.00	840	82.00	1267	120.00	95	174.00	313408
55.00	862	83.00	323	122.00	96	175.00	24480
56.00	4229	85.00	132	125.00	209	176.00	303488
57.00	7319	86.00	114	128.00	1188	177.00	20192
58.00	354	87.00	16760	129.00	505	178.00	783
59.00	92	88.00	15856	130.00	1172	180.00	84
60.00	3142	91.00	928	131.00	590	181.00	185
61.00	14833	92.00	9174	137.00	678	207.00	80
62.00	14307	93.00	14279	139.00	282	208.00	217
63.00	10895	94.00	40376	141.00	2700	223.00	87
64.00	1027	95.00	381760	142.00	530	267.00	146
67.00	460	96.00	24952	143.00	2818	281.00	312
68.00	32416	97.00	157	144.00	192	282.00	98

Report Date: 21-May-2024 17:35:06 Chrom Revision: 2.3 20-May-2024 22:00:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20T01.D				
Injection Date:	20-May-2024 20:57:30	Instrument ID:	23297	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_23297	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09T01.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 09-Jul-2024 08:19:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0118805-001
Misc. Info.: BFB
Operator ID: CLM27445 Instrument ID: 23297

Method: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 10-Jul-2024 10:36:52 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

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

First Level Reviewer: FQ4L Date: 10-Jul-2024 10:36:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 33 BFB	95	4.576	4.576	0.000	0	618365	NC	NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

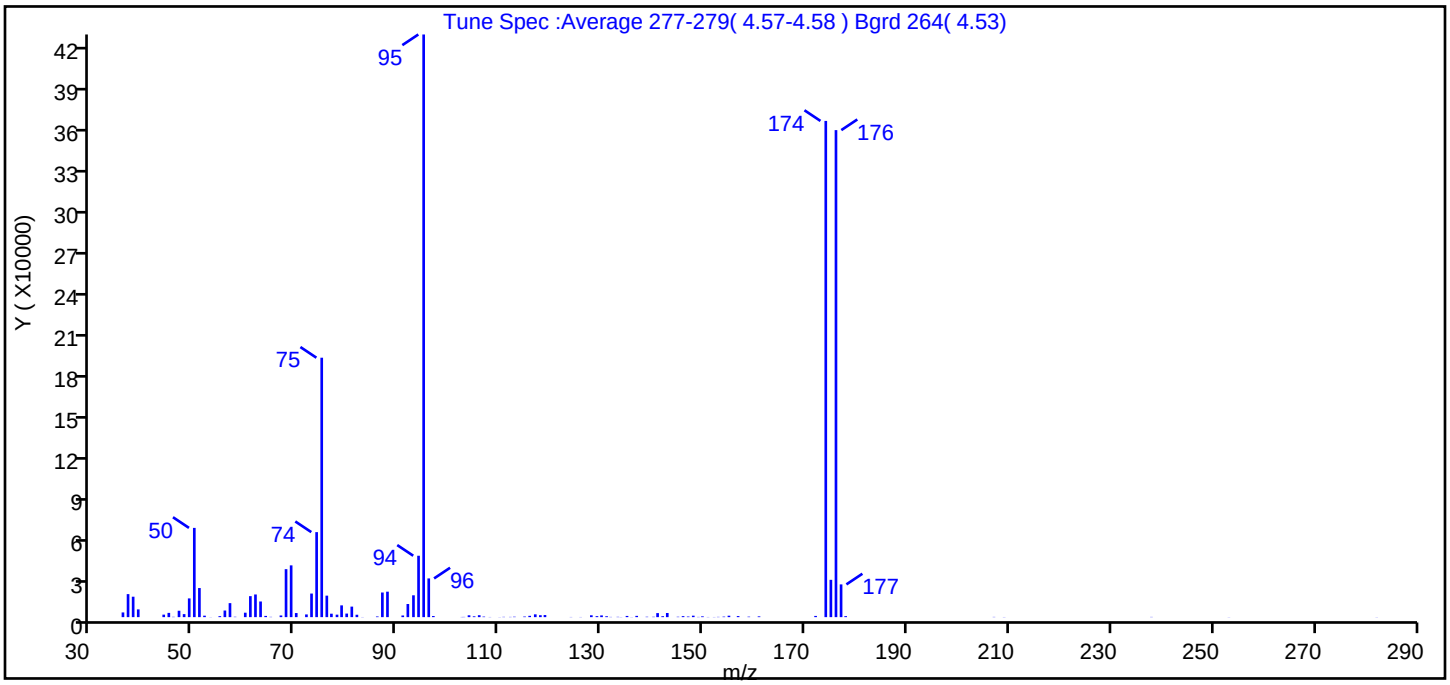
MSV_V_BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09T01.D
Injection Date: 09-Jul-2024 08:19:30 Instrument ID: 23297
Lims ID: BFB
Client ID:
Operator ID: CLM27445 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSVoa_23297 Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 33 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.3
75	30 to 60% of m/z 95	44.5
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	85.2
175	5 to 9% of m/z 174	6.4 (7.5)
176	Greater than 95% but less than 101% of m/z 174	83.6 (98.1)
177	5 to 9% of m/z 176	5.6 (6.7)

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09T01.D\MSVoa_23297.rslt\spectra.d
Injection Date: 09-Jul-2024 08:19:30
Spectrum: Tune Spec :Average 277-279(4.57-4.58) Bgrd 264(4.53)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 108

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3447	70.00	2996	106.00	1415	142.00	681
37.00	16840	72.00	1984	107.00	394	143.00	3026
38.00	14947	73.00	17256	108.00	125	145.00	286
39.00	5671	74.00	62184	110.00	91	146.00	729
44.00	1839	75.00	189760	111.00	212	147.00	437
45.00	3114	76.00	15724	112.00	177	148.00	1063
46.00	232	77.00	2522	113.00	310	149.00	165
47.00	4677	78.00	1823	115.00	439	150.00	571
48.00	2218	79.00	8616	116.00	968	151.00	123
49.00	13711	80.00	2610	117.00	2052	152.00	115
50.00	65280	81.00	7699	118.00	1409	153.00	195
51.00	21288	82.00	1756	119.00	1532	154.00	382
52.00	1074	83.00	109	124.00	130	155.00	1049
53.00	87	86.00	495	126.00	122	157.00	780
55.00	711	87.00	18024	128.00	1355	159.00	355
56.00	4848	88.00	18632	129.00	727	161.00	561
57.00	10243	91.00	1206	130.00	1264	172.00	896
58.00	272	92.00	9604	131.00	651	174.00	362944
60.00	3250	93.00	15974	132.00	165	175.00	27296
61.00	15359	94.00	44912	133.00	220	176.00	356224
62.00	16584	95.00	426176	134.00	96	177.00	23952
63.00	11449	96.00	28320	135.00	880	178.00	727
64.00	905	97.00	800	136.00	88	207.00	175
65.00	206	103.00	137	137.00	933	209.00	110
67.00	1220	103.00	167	139.00	292	238.00	167
68.00	35096	104.00	1353	140.00	270	253.00	84
69.00	37872	105.00	599	141.00	2960	282.00	88

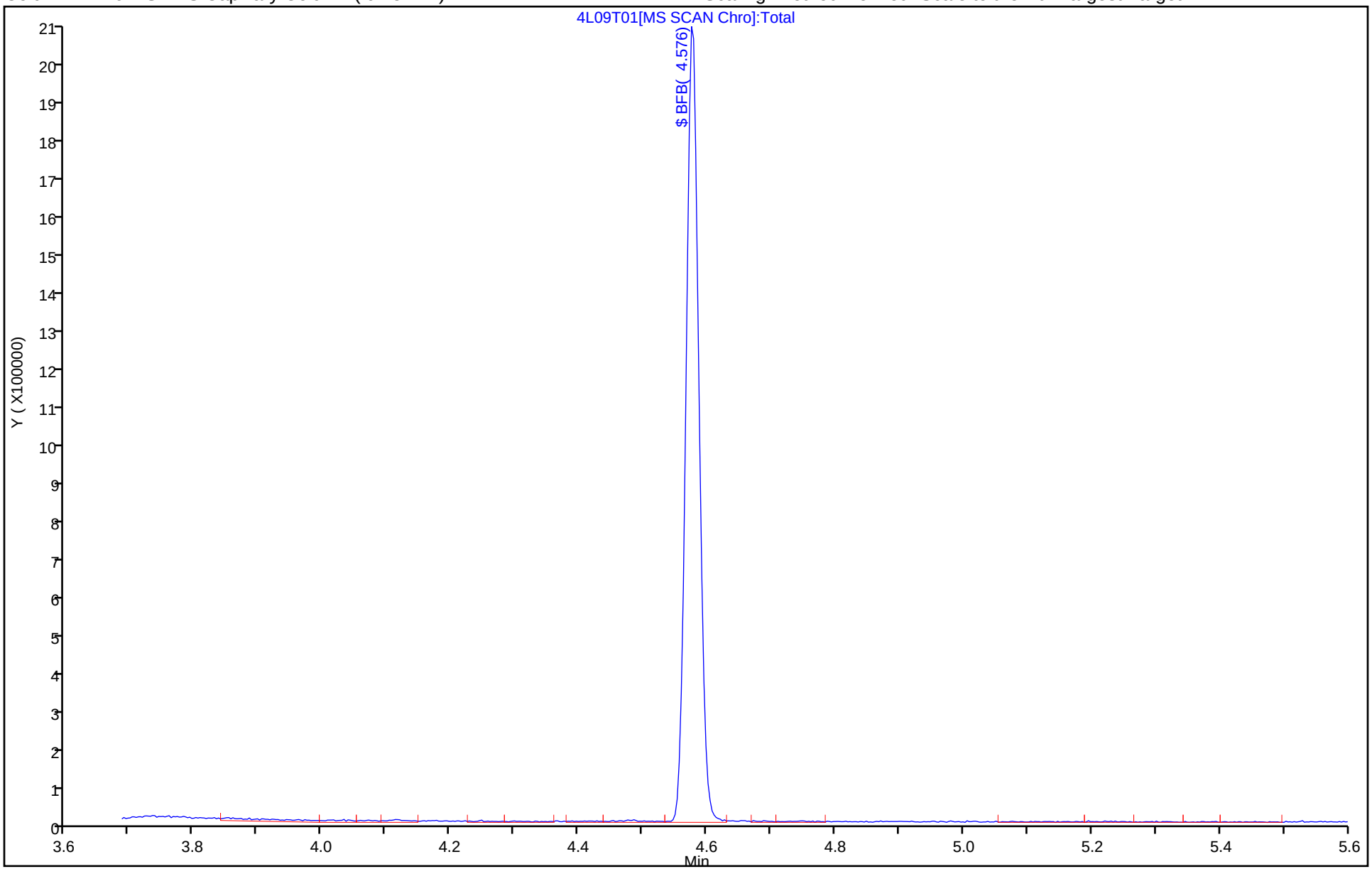
Report Date: 10-Jul-2024 10:36:52 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09T01.D

Injection Date:	09-Jul-2024 08:19:30	Instrument ID:	23297	Operator ID:	CLM27445
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177784-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-525900/7

Matrix: Water
Lab File ID: 4L09X06.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 5(mL)
Date Analyzed: 07/09/2024 10:58

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.: 525900
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP04

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	Ethylene Dibromide	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.: 410-177784-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-525900/7

Matrix: Water
Lab File ID: 4L09X06.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 5(mL)
Date Analyzed: 07/09/2024 10:58

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.: 525900
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP04

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)	103		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)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X06.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 09-Jul-2024 10:58:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118805-007
Misc. Info.: MB
Operator ID: CLM27445 Instrument ID: 23297

Method: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2024 11:42:10 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1645

First Level Reviewer: TQ4J Date: 09-Jul-2024 13:43:02

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Chlorotrifluoroethene	116		1.764					ND	
2	Dichlorodifluoromethane	85		1.800					ND	
3	Chlorodifluoromethane	51		1.800					ND	7
4	Chloromethane	50		1.983					ND	7
5	Vinyl chloride	62		2.086					ND	
6	Butadiene	39		2.098					ND	7
7	2-Chloro-1,1,1-Trifluoroethane	118		2.159					ND	7
8	Bromomethane	94		2.402					ND	7
9	Chloroethane	64		2.482					ND	
10	Dichlorofluoromethane	67		2.694					ND	
11	Trichlorofluoromethane	101		2.743					ND	
12	Pentane	43		2.780					ND	7
13	Ethanol	45		2.895					ND	
14	Ethyl ether	59		2.956					ND	
15	1,2-Dichloro-1,1,2-trifluoroetha	67		3.059					ND	
16	Acrolein	56		3.114					ND	
17	1,1-Dichloroethene	96		3.266					ND	
18	Acetone	58		3.272					ND	
19	1,1,2-Trichloro-1,2,2-trifluoroe	101		3.297					ND	
20	Isopropyl alcohol	45		3.437					ND	
21	Iodomethane	142		3.443					ND	
22	Carbon disulfide	76		3.546					ND	
23	Acetonitrile	41		3.601					ND	
24	Methyl acetate	43		3.650					ND	
26	3-Chloro-1-propene	41		3.686					ND	
27	Methylene Chloride	84		3.862					ND	7
* 28	t-Butyl alcohol-d10 (IS)	65	3.881	3.887	-0.006	36	532388	250.0	250.0	
29	2-Methyl-2-propanol	59		3.996					ND	
30	Acrylonitrile	53		4.148					ND	
31	Methyl tert-butyl ether	73		4.221					ND	
32	trans-1,2-Dichloroethene	96		4.234					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 Hexane	57		4.666					ND	
36 Vinyl acetate	43		4.884					ND	
35 1,1-Dichloroethane	63		4.891					ND	
37 Isopropyl ether	45		4.958					ND	
38 2-Chloro-1,3-butadiene	53		5.000					ND	
39 Tert-butyl ethyl ether	59		5.505					ND	
40 2-Butanone (MEK)	43		5.718					ND	7
41 cis-1,2-Dichloroethene	96		5.736					ND	
42 2,2-Dichloropropane	77		5.754					ND	U
43 Ethyl acetate	43		5.779					ND	7
44 Propionitrile	54		5.791					ND	
45 Methyl acrylate	55		5.846					ND	
47 Methacrylonitrile	67		6.016					ND	
48 Chlorobromomethane	128		6.071					ND	
49 Tetrahydrofuran	71		6.089					ND	
S 46 1,2-Dichloroethene, Total	100		6.155					ND	7
50 Chloroform	83		6.229					ND	7
$ 51 Dibromofluoromethane (Surr)	113	6.448	6.448	0.000	93	324650	50.0	52.4	
52 1,1,1-Trichloroethane	97		6.454					ND	
53 Cyclohexane	56		6.570					ND	
55 1,1-Dichloropropene	75		6.673					ND	
54 Carbon tetrachloride	117		6.679					ND	
56 Isobutyl alcohol	41		6.850					ND	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	6.910	6.904	0.006	80	77392	50.0	51.3	
58 Benzene	78		6.941					ND	
59 1,2-Dichloroethane	62		7.014					ND	
60 Isopropyl acetate	43		7.038					ND	
61 Tert-amyl methyl ether	73		7.148					ND	
* 62 Fluorobenzene (IS)	96	7.354	7.354	0.000	99	1227844	50.0	50.0	
63 n-Heptane	43		7.379					ND	7
64 n-Butanol	56		7.750					ND	
66 Trichloroethene	95		7.841					ND	
65 t-Amyl alcohol	73		7.884					ND	
67 Ethyl acrylate	55		7.963					ND	
68 Methylcyclohexane	83		8.151					ND	
69 1,2-Dichloropropane	63		8.176					ND	
70 2-ethoxy-2-methyl butane	87		8.194					ND	
73 1,4-Dioxane	88		8.267					ND	
72 Methyl methacrylate	69		8.273					ND	
74 Dibromomethane	93		8.285					ND	
71 n-Propyl acetate	61		8.358					ND	
75 Dichlorobromomethane	83		8.529					ND	
76 2-Nitropropane	41		8.802					ND	
77 2-Chloroethyl vinyl ether	63		8.906					ND	
78 cis-1,3-Dichloropropene	75		9.094					ND	
79 4-Methyl-2-pentanone (MIBK)	43		9.283					ND	7
$ 80 Toluene-d8 (Surr)	98	9.423	9.423	0.000	93	1182582	50.0	49.7	
81 Toluene	92		9.502					ND	
82 trans-1,3-Dichloropropene	75		9.776					ND	
100 Ethyl methacrylate	69		9.849					ND	
118 1,1,2-Trichloroethane	97		9.989					ND	
S 114 1,3-Dichloropropene, Total	100		10.060					ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 Tetrachloroethene	166		10.080				ND		
120 1,3-Dichloropropane	76		10.153				ND		
121 3,4-Dichloro-1-butene	75		10.196				ND		7
123 2-Hexanone	43		10.220				ND		7
124 n-Butyl acetate	43		10.347				ND		
125 Chlorodibromomethane	129		10.378				ND		
127 Ethylene Dibromide	107		10.487				ND		
* 128 Chlorobenzene-d5 (IS)	117	10.932	10.938	-0.006	84	884088	50.0	50.0	
129 1-Chlorohexane	91		10.950				ND		U
130 Chlorobenzene	112		10.962				ND		
131 1,1,1,2-Tetrachloroethane	131		11.047				ND		
132 Ethylbenzene	91		11.053				ND		
134 m-Xylene & p-Xylene	106		11.175				ND		
S 133 Xylenes, Total	106		11.245				ND		7
135 n-Butyl acrylate	55		11.461				ND		
136 o-Xylene	106		11.510				ND		
137 Styrene	104		11.522				ND		
138 Bromoform	173		11.674				ND		
139 Isopropylbenzene	105		11.814				ND		
140 cis-1,4-Dichloro-2-butene	88		11.869				ND		
141 Cyclohexanone	55		11.899				ND		7
$ 142 4-Bromofluorobenzene (Surr)	95	11.954	11.954	0.000	92	420891	50.0	48.4	
143 1,1,2,2-Tetrachloroethane	83		12.063				ND		
144 Bromobenzene	156		12.069				ND		
145 trans-1,4-Dichloro-2-butene	53		12.087				ND		
146 1,2,3-Trichloropropane	110		12.106				ND		
147 N-Propylbenzene	91		12.148				ND		
148 2-Chlorotoluene	126		12.221				ND		
149 1,3,5-Trimethylbenzene	105		12.288				ND		
150 4-Chlorotoluene	126		12.313				ND		
151 2,3,4-Trichlorobutene	109		12.398				ND		
153 tert-Butylbenzene	134		12.532				ND		
154 Pentachloroethane	167		12.562				ND		
155 1,2,4-Trimethylbenzene	105		12.574				ND		7
156 sec-Butylbenzene	105		12.696				ND		7
158 1,3-Dichlorobenzene	146		12.793				ND		7
159 4-Isopropyltoluene	119		12.805				ND		7
* 160 1,4-Dichlorobenzene-d4	152	12.848	12.848	0.000	94	517545	50.0	50.0	
161 1,4-Dichlorobenzene	146		12.866				ND		7
162 1,2,3-Trimethylbenzene	105		12.878				ND		7
163 Benzyl chloride	91		12.939				ND		7
164 1,3-Diethylbenzene	119		13.006				ND		7
165 p-Diethylbenzene	119		13.079				ND		7
166 n-Butylbenzene	92		13.097				ND		7
167 1,2-Dichlorobenzene	146		13.128				ND		7
168 o-diethylbenzene	119		13.152				ND		7
169 Hexachloroethane	201		13.639				ND		
170 1,2-Dibromo-3-Chloropropane	75		13.669				ND		
171 1,3,5-Trichlorobenzene	180		13.797				ND		7
172 1,2,4-Trichlorobenzene	180		14.223				ND		7
173 2-Ethylhexyl acrylate	55		14.290				ND		
174 Hexachlorobutadiene	225		14.308				ND		7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
175 Naphthalene	128		14.399					ND	7
176 1,2,3-Trichlorobenzene	180		14.545					ND	7
177 2-Methylnaphthalene	142		15.148					ND	7
178 C4-C10	1		0.000					ND	
179 C6-C12	1		0.000					ND	
180 1-Bromo-2-chloroethane	1		0.000					ND	
181 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
182 1-Chlorobutane	1		0.000					ND	
183 trans-1,2,3-Trichlorobutene-2	1		0.000					ND	
184 3-chloro-1-Butene	1		0.000					ND	
185 Propene oxide	1		0.000					ND	
S 186 Total Diethylbenzene	1		0.000					ND	7
187 C6-C10	1		0.000					ND	
188 Dodecane	57		0.000					ND	
189 cis-1,2,3-Trichlorobutene-2	1		0.000					ND	
190 tert-Butyl Formate	1		0.000					ND	
191 Methylal	1		0.000					ND	
192 1,1,2,2-Tetrachloro-1,2-difluoro	1		0.000					ND	
193 Butane	1		0.000					ND	
S 194 Total BTEX	1		0.000					ND	
195 1,3-Divinylbenzene	1		0.000					ND	
196 Undecane	1		0.000					ND	
197 Chloroacetonitrile	1		0.000					ND	
198 Ethyl bromide	1		0.000					ND	
199 sec-Butyl Alcohol	45		0.000					ND	
200 n-Nonane	1		0.000					ND	
201 n-Octane	1		0.000					ND	
202 2,3-Dichloro-1,3-butadiene	1		0.000					ND	
203 C5-C12	1		0.000					ND	
204 Propanol	1		0.000					ND	
205 Isobutyl acetate	43		0.000					ND	
S 206 divinyl benzene	1		0.000					ND	7
207 C4-C12	1		0.000					ND	
208 n-Decane	57		0.000					ND	
209 1,4-Divinylbenzene	1		0.000					ND	
210 Diethoxymethane	1		0.000					ND	
211 3-Methyl-1-butene	1		0.000					ND	
212 2-Butoxyethyl acetate	1		0.000					ND	
213 sec-Butyl Alcohol TIC	1		0.000					ND	
214 2-ethoxy-2-methyl butane TIC	1		0.000					ND	
215 4-Ethyltoluene	1		0.000					ND	
216 Dimethylformamide TIC	1		0.000					ND	
217 3-Pentanone TIC	1		0.000					ND	
275 Gasoline (Unleaded)	1		0.000					ND	
276 1-Methylnaphthalene	142		0.000					ND	
$ 277 trans-1,2,3-Trichlorobutene-2 TI	1		0.000					ND	
278 1,1,1,2-Tetrafluoroethane 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 TIC	1		0.000					ND	
283 Dimethyl Sulfide 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
284 2,2-Dimethylpropane TIC	1		0.000					ND	
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_HP04_ISSS_00003 Amount Added: 1.00 Units: uL Run Reagent

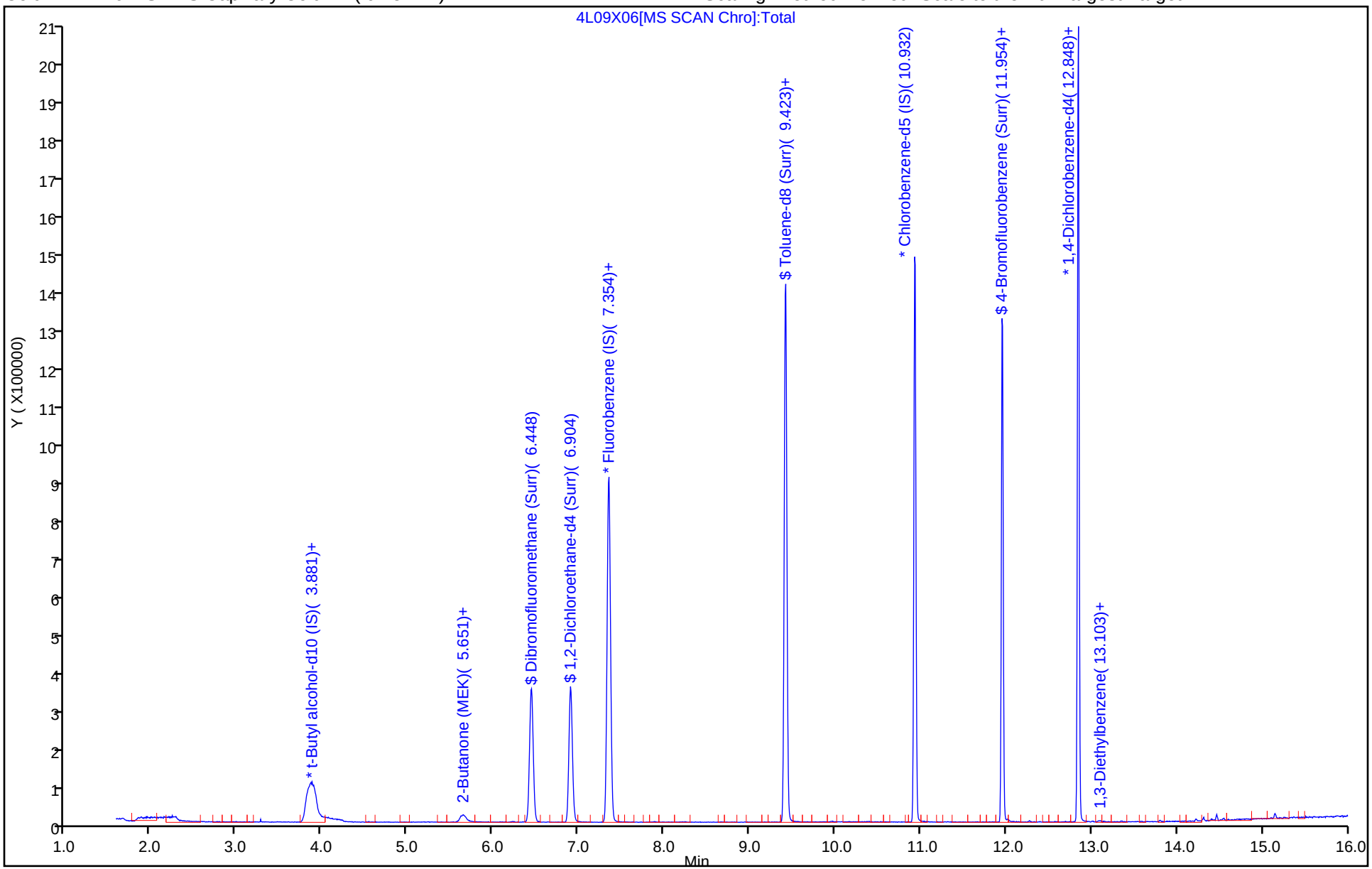
Report Date: 09-Jul-2024 13:43:02 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X06.D

Injection Date:	09-Jul-2024 10:58:30	Instrument ID:	23297	Operator ID:	CLM27445
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X06.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	09-Jul-2024 10:58:30	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0118805-007				
Misc. Info.:	MB				
Operator ID:	CLM27445	Instrument ID:	23297		
Method:	\\chromfs\Lancaster\ChromData\23297\20240709-118805.b\MSVoa_23297.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Jul-2024 11:42:10	Calib Date:	21-May-2024 03:15:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1645				
First Level Reviewer: TQ4J		Date:	09-Jul-2024 13:43:02		

Compound	Amount Added	Amount Recovered	% Rec.
$ 51 Dibromofluoromethane (Surr)	50.0	52.4	104.81
$ 57 1,2-Dichloroethane-d4 (Surr)	50.0	51.3	102.56
$ 80 Toluene-d8 (Surr)	50.0	49.7	99.42
$ 142 4-Bromofluorobenzene (Surr)	50.0	48.4	96.83

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177784-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-525900/4

Matrix: Water
Lab File ID: 4L09X03.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 5(mL)
Date Analyzed: 07/09/2024 09:51

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.: 525900
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	21.2		1.0	0.30
71-55-6	1,1,1-Trichloroethane	20.7		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	19.3		1.0	0.30
79-00-5	1,1,2-Trichloroethane	20.2		1.0	0.30
75-34-3	1,1-Dichloroethane	20.0		1.0	0.30
75-35-4	1,1-Dichloroethene	21.4		1.0	0.30
106-93-4	Ethylene Dibromide	20.5		1.0	0.20
107-06-2	1,2-Dichloroethane	19.8		1.0	0.30
78-87-5	1,2-Dichloropropane	19.3		1.0	0.30
78-93-3	2-Butanone (MEK)	220		10	0.50
591-78-6	2-Hexanone	234		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	214		10	0.50
67-64-1	Acetone	231		20	0.70
71-43-2	Benzene	19.6		1.0	0.30
74-97-5	Bromochloromethane	20.8		5.0	0.20
75-27-4	Bromodichloromethane	19.3		1.0	0.20
75-25-2	Bromoform	19.9		4.0	1.0
74-83-9	Bromomethane	17.0		1.0	0.30
75-15-0	Carbon disulfide	19.9		5.0	0.30
56-23-5	Carbon tetrachloride	21.6		1.0	0.30
108-90-7	Chlorobenzene	20.6		1.0	0.30
75-00-3	Chloroethane	17.8		1.0	0.30
67-66-3	Chloroform	18.0		1.0	0.30
74-87-3	Chloromethane	15.0		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	19.9		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	17.6		1.0	0.20
124-48-1	Dibromochloromethane	20.8		1.0	0.20
100-41-4	Ethylbenzene	20.7		1.0	0.40
1634-04-4	Methyl tert-butyl ether	17.7		1.0	0.20
75-09-2	Methylene Chloride	20.7		1.0	0.30
100-42-5	Styrene	19.4		5.0	0.30
127-18-4	Tetrachloroethene	22.1		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177784-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-525900/4

Matrix: Water
Lab File ID: 4L09X03.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 5(mL)
Date Analyzed: 07/09/2024 09:51

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.: 525900
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	20.5		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	20.7		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	18.9		1.0	0.20
79-01-6	Trichloroethene	19.3		1.0	0.30
75-01-4	Vinyl chloride	15.6		1.0	0.30
1330-20-7	Xylenes, Total	61.0		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)	105		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 09-Jul-2024 09:51:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118805-004
Misc. Info.: LCS
Operator ID: CLM27445 Instrument ID: 23297

Method: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2024 11:21:24 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1645

First Level Reviewer: TQ4J Date: 09-Jul-2024 11:16:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.806	1.800	0.006	99	180452	20.0	15.5	
4 Chloromethane	50	1.983	1.983	0.000	99	190218	20.0	15.0	
5 Vinyl chloride	62	2.086	2.086	0.000	98	184050	20.0	15.6	
6 Butadiene	39	2.092	2.098	-0.006	92	279393	20.0	24.1	
8 Bromomethane	94	2.403	2.402	0.001	90	147584	20.0	17.0	
9 Chloroethane	64	2.476	2.482	-0.006	99	112388	20.0	17.8	
10 Dichlorofluoromethane	67	2.695	2.694	0.001	97	276897	20.0	16.0	
11 Trichlorofluoromethane	101	2.737	2.743	-0.006	97	216372	20.0	17.4	
12 Pentane	43	2.780	2.780	0.000	97	193365	20.0	18.2	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.060	3.059	0.001	92	161291	20.0	18.2	
16 Acrolein	56	3.114	3.114	0.000	100	378606	150.3	157.8	a
17 1,1-Dichloroethene	96	3.254	3.266	-0.012	96	130486	20.0	21.4	
18 Acetone	58	3.266	3.272	-0.006	100	307886	250.0	231.0	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.309	3.297	0.012	92	125792	20.0	18.2	
20 Isopropyl alcohol	45	3.425	3.437	-0.012	96	166689	150.0	125.6	
21 Iodomethane	142	3.449	3.443	0.006	98	263611	20.0	20.6	
22 Carbon disulfide	76	3.540	3.546	-0.006	99	452524	20.0	19.9	
24 Methyl acetate	43	3.650	3.650	0.000	97	169838	20.0	18.5	
26 3-Chloro-1-propene	41	3.680	3.686	-0.006	92	182401	20.0	18.1	
27 Methylene Chloride	84	3.863	3.862	0.001	90	157404	20.0	20.7	
* 28 t-Butyl alcohol-d10 (IS)	65	3.887	3.887	0.000	97	543281	250.0	250.0	
29 2-Methyl-2-propanol	59	3.984	3.996	-0.012	99	401640	200.0	177.3	
30 Acrylonitrile	53	4.149	4.148	0.000	99	447498	100.0	91.6	
31 Methyl tert-butyl ether	73	4.228	4.221	0.007	89	400454	20.0	17.7	
32 trans-1,2-Dichloroethene	96	4.234	4.234	0.000	99	133815	20.0	20.7	
34 Hexane	57	4.660	4.666	-0.006	92	158765	20.0	18.3	
35 1,1-Dichloroethane	63	4.891	4.891	0.000	96	224347	20.0	20.0	
37 Isopropyl ether	45	4.958	4.958	0.000	94	385316	20.0	17.7	
38 2-Chloro-1,3-butadiene	53	5.006	5.000	0.006	89	172414	20.0	18.3	
39 Tert-butyl ethyl ether	59	5.505	5.505	0.000	97	387214	20.0	18.0	
40 2-Butanone (MEK)	43	5.712	5.718	-0.006	99	1523935	250.0	219.5	

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	5.736	5.736	0.000	81	149259	20.0	19.9	
42 2,2-Dichloropropane	77	5.755	5.754	0.001	83	209381	20.0	18.9	
44 Propionitrile	54	5.797	5.791	0.006	99	306523	150.0	149.0	
47 Methacrylonitrile	67	6.022	6.016	0.006	91	674166	150.0	138.0	
48 Chlorobromomethane	128	6.071	6.071	0.000	84	80756	20.0	20.8	
49 Tetrahydrofuran	71	6.089	6.089	0.000	91	181087	100.0	98.1	
50 Chloroform	83	6.235	6.229	0.006	92	231517	20.0	18.0	
$ 51 Dibromofluoromethane (Surr)	113	6.448	6.448	0.000	93	349034	50.0	52.3	
52 1,1,1-Trichloroethane	97	6.460	6.454	0.006	96	217091	20.0	20.7	
53 Cyclohexane	56	6.564	6.570	-0.006	90	223756	20.0	17.5	
55 1,1-Dichloropropene	75	6.679	6.673	0.006	96	173985	20.0	19.6	
54 Carbon tetrachloride	117	6.679	6.679	0.000	80	186791	20.0	21.6	
56 Isobutyl alcohol	41	6.856	6.850	0.006	94	316736	500.0	431.8	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	6.910	6.904	0.006	90	83223	50.0	51.2	
58 Benzene	78	6.941	6.941	0.000	97	531996	20.0	19.6	
59 1,2-Dichloroethane	62	7.014	7.014	0.000	97	174273	20.0	19.8	
61 Tert-amyl methyl ether	73	7.142	7.148	-0.006	98	380362	20.0	17.8	
* 62 Fluorobenzene (IS)	96	7.355	7.354	0.001	99	1321676	50.0	50.0	
63 n-Heptane	43	7.385	7.379	0.006	93	176132	20.0	18.4	
64 n-Butanol	56	7.750	7.750	0.000	88	513436	1000.0	872.8	
66 Trichloroethene	95	7.841	7.841	0.000	97	134181	20.0	19.3	
68 Methylcyclohexane	83	8.151	8.151	0.000	90	230517	20.0	18.0	
69 1,2-Dichloropropane	63	8.176	8.176	0.000	98	136893	20.0	19.3	
70 2-ethoxy-2-methyl butane	87	8.194	8.194	0.000	94	177640	20.0	17.1	
73 1,4-Dioxane	88	8.279	8.267	0.012	44	74958	500.0	499.8	
72 Methyl methacrylate	69	8.273	8.273	0.000	92	117618	20.0	16.5	
74 Dibromomethane	93	8.285	8.285	0.000	97	97047	20.0	19.5	
75 Dichlorobromomethane	83	8.529	8.529	0.000	99	167184	20.0	19.3	
76 2-Nitropropane	41	8.802	8.802	0.000	99	56941	20.0	19.5	
77 2-Chloroethyl vinyl ether	63	8.906	8.906	0.000	92	90765	20.0	17.7	a
78 cis-1,3-Dichloropropene	75	9.094	9.094	0.000	97	196472	20.0	17.6	
79 4-Methyl-2-pentanone (MIBK)	43	9.283	9.283	0.000	96	2954679	250.0	214.2	
$ 80 Toluene-d8 (Surr)	98	9.423	9.423	0.000	93	1279877	50.0	50.1	
81 Toluene	92	9.502	9.502	0.000	99	330939	20.0	20.5	
82 trans-1,3-Dichloropropene	75	9.776	9.776	0.000	92	178148	20.0	18.9	
100 Ethyl methacrylate	69	9.849	9.849	0.000	90	191500	20.0	17.0	
118 1,1,2-Trichloroethane	97	9.989	9.989	0.000	89	127592	20.0	20.2	
119 Tetrachloroethene	166	10.080	10.080	0.000	97	147930	20.0	22.1	
120 1,3-Dichloropropane	76	10.153	10.153	0.000	91	195385	20.0	19.6	
123 2-Hexanone	43	10.220	10.220	0.000	99	2114734	250.0	233.7	
125 Chlorodibromomethane	129	10.378	10.378	0.000	89	140952	20.0	20.8	
127 Ethylene Dibromide	107	10.488	10.487	0.001	98	135496	20.0	20.5	
* 128 Chlorobenzene-d5 (IS)	117	10.938	10.938	0.000	84	950009	50.0	50.0	
129 1-Chlorohexane	91	10.950	10.950	0.000	98	157997	20.0	17.8	
130 Chlorobenzene	112	10.962	10.962	0.000	97	371196	20.0	20.6	
131 1,1,1,2-Tetrachloroethane	131	11.047	11.047	0.000	96	148218	20.0	21.2	
132 Ethylbenzene	91	11.053	11.053	0.000	97	642034	20.0	20.7	
134 m-Xylene & p-Xylene	106	11.175	11.175	0.000	99	510448	40.0	41.3	
136 o-Xylene	106	11.510	11.510	0.000	95	264453	20.0	19.7	
137 Styrene	104	11.522	11.522	0.000	95	391166	20.0	19.4	
138 Bromoform	173	11.680	11.674	0.006	98	105619	20.0	19.9	
139 Isopropylbenzene	105	11.814	11.814	0.000	95	691609	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
$ 142 4-Bromofluorobenzene (Surr)	95	11.960	11.954	0.006	94	446188	50.0	47.8	
143 1,1,2,2-Tetrachloroethane	83	12.063	12.063	0.000	94	233567	20.0	19.3	
144 Bromobenzene	156	12.075	12.069	0.006	89	169505	20.0	21.5	
145 trans-1,4-Dichloro-2-butene	53	12.088	12.087	0.001	94	199246	100.0	61.6	
146 1,2,3-Trichloropropane	110	12.106	12.106	0.000	82	70028	20.0	20.4	
147 N-Propylbenzene	91	12.148	12.148	0.000	98	764937	20.0	20.5	
148 2-Chlorotoluene	126	12.221	12.221	0.000	98	169497	20.0	20.8	
149 1,3,5-Trimethylbenzene	105	12.288	12.288	0.000	94	578209	20.0	20.0	
150 4-Chlorotoluene	126	12.313	12.313	0.000	97	161969	20.0	20.5	
153 tert-Butylbenzene	134	12.532	12.532	0.000	92	113188	20.0	20.3	
155 1,2,4-Trimethylbenzene	105	12.574	12.574	0.000	97	591212	20.0	20.1	
156 sec-Butylbenzene	105	12.696	12.696	0.000	94	740271	20.0	20.3	
158 1,3-Dichlorobenzene	146	12.793	12.793	0.000	98	325679	20.0	20.9	
159 4-Isopropyltoluene	119	12.805	12.805	0.000	97	644868	20.0	19.9	
* 160 1,4-Dichlorobenzene-d4	152	12.848	12.848	0.000	93	553876	50.0	50.0	
161 1,4-Dichlorobenzene	146	12.866	12.866	0.000	96	331731	20.0	21.1	
162 1,2,3-Trimethylbenzene	105	12.878	12.878	0.000	98	597510	20.0	18.9	
163 Benzyl chloride	91	12.945	12.939	0.006	98	425012	20.0	18.1	
164 1,3-Diethylbenzene	119	13.006	13.006	0.000	95	380194	20.0	19.7	
165 p-Diethylbenzene	119	13.079	13.079	0.000	94	409215	20.0	20.3	
166 n-Butylbenzene	92	13.097	13.097	0.000	97	322830	20.0	19.8	
167 1,2-Dichlorobenzene	146	13.128	13.128	0.000	99	342500	20.0	20.6	
168 o-diethylbenzene	119	13.152	13.152	0.000	93	319506	20.0	19.7	
170 1,2-Dibromo-3-Chloropropane	75	13.669	13.669	0.000	89	65329	20.0	18.0	
171 1,3,5-Trichlorobenzene	180	13.797	13.797	0.000	98	265390	20.0	20.3	
172 1,2,4-Trichlorobenzene	180	14.223	14.223	0.000	95	259333	20.0	19.9	
174 Hexachlorobutadiene	225	14.308	14.308	0.000	97	104271	20.0	20.7	
175 Naphthalene	128	14.399	14.399	0.000	97	909794	20.0	19.0	
176 1,2,3-Trichlorobenzene	180	14.545	14.545	0.000	96	252138	20.0	19.5	
177 2-Methylnaphthalene	142	15.148	15.148	0.000	94	457559	20.0	18.4	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MSV_LCS_VOC#1_00175	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00206	Amount Added: 50.00	Units: uL	
MSV_LCS_2CEVE_00179	Amount Added: 50.00	Units: uL	
MSV_LCS_ACROL_00178	Amount Added: 50.00	Units: uL	
MSV_HP04_ISSS_00003	Amount Added: 1.00	Units: uL	Run Reagent

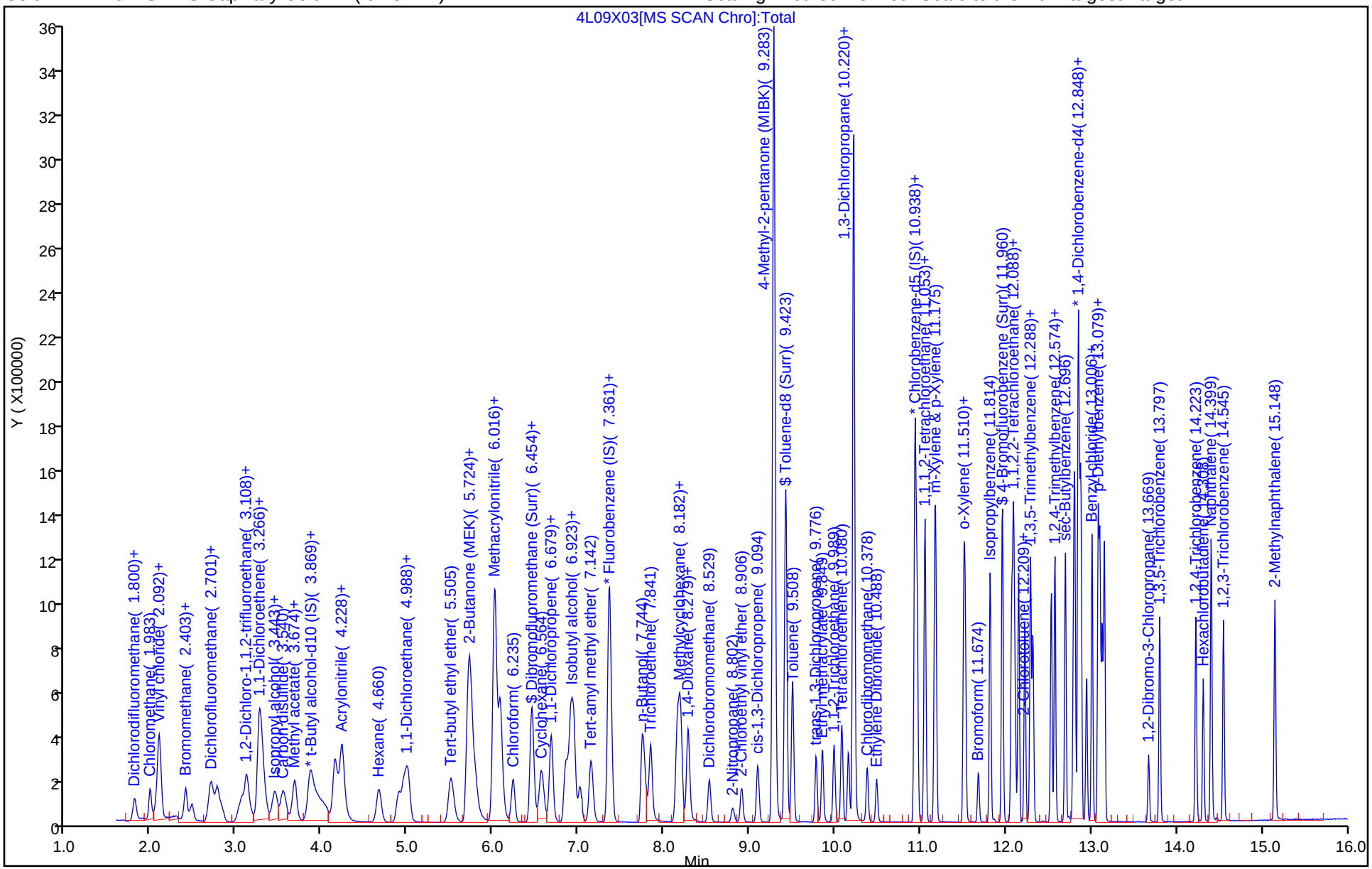
Report Date: 09-Jul-2024 11:23:37 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X03.D

Injection Date:	09-Jul-2024 09:51:30	Instrument ID:	23297	Operator ID:	CLM27445
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X03.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 09-Jul-2024 09:51:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118805-004
Misc. Info.: LCS
Operator ID: CLM27445 Instrument ID: 23297

Method: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2024 11:21:24 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1645

First Level Reviewer: TQ4J Date: 09-Jul-2024 11:16:47

Compound	Amount Added	Amount Recovered	% Rec.
$ 51 Dibromofluoromethane (Surr)	50.0	52.3	104.68
$ 57 1,2-Dichloroethane-d4 (Surr)	50.0	51.2	102.45
$ 80 Toluene-d8 (Surr)	50.0	50.1	100.13
$ 142 4-Bromofluorobenzene (Surr)	50.0	47.8	95.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177784-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-525900/5

Matrix: Water
Lab File ID: 4L09X04.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 5(mL)
Date Analyzed: 07/09/2024 10:13

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.: 525900
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	21.0		1.0	0.30
71-55-6	1,1,1-Trichloroethane	20.5		1.0	0.30
79-34-5	1,1,2,2-Tetrachloroethane	19.3		1.0	0.30
79-00-5	1,1,2-Trichloroethane	20.1		1.0	0.30
75-34-3	1,1-Dichloroethane	19.9		1.0	0.30
75-35-4	1,1-Dichloroethene	22.4		1.0	0.30
106-93-4	Ethylene Dibromide	20.0		1.0	0.20
107-06-2	1,2-Dichloroethane	19.3		1.0	0.30
78-87-5	1,2-Dichloropropane	19.0		1.0	0.30
78-93-3	2-Butanone (MEK)	219		10	0.50
591-78-6	2-Hexanone	236		10	0.85
108-10-1	4-Methyl-2-pentanone (MIBK)	212		10	0.50
67-64-1	Acetone	223		20	0.70
71-43-2	Benzene	19.3		1.0	0.30
74-97-5	Bromochloromethane	21.1		5.0	0.20
75-27-4	Bromodichloromethane	19.1		1.0	0.20
75-25-2	Bromoform	20.0		4.0	1.0
74-83-9	Bromomethane	17.3		1.0	0.30
75-15-0	Carbon disulfide	20.7		5.0	0.30
56-23-5	Carbon tetrachloride	21.6		1.0	0.30
108-90-7	Chlorobenzene	20.1		1.0	0.30
75-00-3	Chloroethane	18.5		1.0	0.30
67-66-3	Chloroform	17.9		1.0	0.30
74-87-3	Chloromethane	15.1		2.0	0.55
156-59-2	cis-1,2-Dichloroethene	19.7		1.0	0.30
10061-01-5	cis-1,3-Dichloropropene	17.2		1.0	0.20
124-48-1	Dibromochloromethane	20.4		1.0	0.20
100-41-4	Ethylbenzene	20.0		1.0	0.40
1634-04-4	Methyl tert-butyl ether	18.2		1.0	0.20
75-09-2	Methylene Chloride	21.5		1.0	0.30
100-42-5	Styrene	19.2		5.0	0.30
127-18-4	Tetrachloroethene	21.8		1.0	0.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-177784-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-525900/5

Matrix: Water
Lab File ID: 4L09X04.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 5(mL)
Date Analyzed: 07/09/2024 10:13

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.: 525900
Units: ug/L

Preparation Batch No.:
Instrument ID: Agilent GC/MS - HP04

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
108-88-3	Toluene	20.2		1.0	0.30
156-60-5	trans-1,2-Dichloroethene	19.9		2.0	0.70
10061-02-6	trans-1,3-Dichloropropene	18.6		1.0	0.20
79-01-6	Trichloroethene	19.4		1.0	0.30
75-01-4	Vinyl chloride	16.0		1.0	0.30
1330-20-7	Xylenes, Total	60.3		1.0	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	96		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		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\23297\20240709-118805.b\4L09X04.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 09-Jul-2024 10:13:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118805-005
Misc. Info.: LCSD
Operator ID: CLM27445 Instrument ID: 23297

Method: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2024 11:21:24 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1645

First Level Reviewer: TQ4J Date: 09-Jul-2024 11:21:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.794	1.800	-0.006	99	175547	20.0	15.5	
4 Chloromethane	50	1.977	1.983	-0.006	99	185248	20.0	15.1	
5 Vinyl chloride	62	2.074	2.086	-0.012	98	182936	20.0	16.0	
6 Butadiene	39	2.086	2.098	-0.012	92	271509	20.0	24.2	
8 Bromomethane	94	2.390	2.402	-0.012	89	145521	20.0	17.3	
9 Chloroethane	64	2.469	2.482	-0.013	100	113022	20.0	18.5	
10 Dichlorofluoromethane	67	2.682	2.694	-0.012	97	278460	20.0	16.6	
11 Trichlorofluoromethane	101	2.731	2.743	-0.012	97	210123	20.0	17.5	
12 Pentane	43	2.774	2.780	-0.006	95	191017	20.0	18.6	
15 1,2-Dichloro-1,1,2-trifluoroetha	67	3.053	3.059	-0.006	90	155559	20.0	18.2	
16 Acrolein	56	3.108	3.114	-0.006	99	372161	150.3	154.3	a
17 1,1-Dichloroethene	96	3.260	3.266	-0.006	88	131808	20.0	22.4	
18 Acetone	58	3.260	3.272	-0.012	100	298419	250.0	222.6	
19 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.297	3.297	0.000	92	123505	20.0	18.4	
20 Isopropyl alcohol	45	3.406	3.437	-0.031	96	191862	150.0	143.7	
21 Iodomethane	142	3.449	3.443	0.006	98	262448	20.0	21.2	
22 Carbon disulfide	76	3.540	3.546	-0.006	99	454679	20.0	20.7	
24 Methyl acetate	43	3.643	3.650	-0.007	97	166194	20.0	18.7	
26 3-Chloro-1-propene	41	3.674	3.686	-0.012	94	171036	20.0	17.6	
27 Methylene Chloride	84	3.850	3.862	-0.012	89	158220	20.0	21.5	
* 28 t-Butyl alcohol-d10 (IS)	65	3.862	3.887	-0.025	97	546369	250.0	250.0	
29 2-Methyl-2-propanol	59	3.960	3.996	-0.036	100	441924	200.0	194.0	
30 Acrylonitrile	53	4.136	4.148	-0.012	99	434312	100.0	91.9	
31 Methyl tert-butyl ether	73	4.215	4.221	-0.006	95	399204	20.0	18.2	
32 trans-1,2-Dichloroethene	96	4.228	4.234	-0.006	99	124625	20.0	19.9	
34 Hexane	57	4.653	4.666	-0.013	94	149620	20.0	17.9	
35 1,1-Dichloroethane	63	4.878	4.891	-0.013	96	216159	20.0	19.9	
37 Isopropyl ether	45	4.951	4.958	-0.007	95	377915	20.0	17.9	
38 2-Chloro-1,3-butadiene	53	5.000	5.000	0.000	89	166126	20.0	18.3	
39 Tert-butyl ethyl ether	59	5.493	5.505	-0.012	97	377493	20.0	18.1	
40 2-Butanone (MEK)	43	5.706	5.718	-0.012	99	1467975	250.0	218.6	

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	5.730	5.736	-0.006	81	142902	20.0	19.7	
42 2,2-Dichloropropane	77	5.754	5.754	0.000	84	205011	20.0	19.1	
44 Propionitrile	54	5.785	5.791	-0.006	99	287346	150.0	138.8	
47 Methacrylonitrile	67	6.010	6.016	-0.006	92	652188	150.0	138.0	
48 Chlorobromomethane	128	6.065	6.071	-0.006	88	79333	20.0	21.1	
49 Tetrahydrofuran	71	6.083	6.089	-0.006	86	175363	100.0	94.5	
50 Chloroform	83	6.223	6.229	-0.006	93	223135	20.0	17.9	
$ 51 Dibromofluoromethane (Surr)	113	6.448	6.448	0.000	94	337414	50.0	52.3	
52 1,1,1-Trichloroethane	97	6.460	6.454	0.006	97	208423	20.0	20.5	
53 Cyclohexane	56	6.564	6.570	-0.006	89	219070	20.0	17.7	
55 1,1-Dichloropropene	75	6.673	6.673	0.000	97	167894	20.0	19.5	
54 Carbon tetrachloride	117	6.673	6.679	-0.006	81	180842	20.0	21.6	
56 Isobutyl alcohol	41	6.843	6.850	-0.007	94	319964	500.0	433.8	
$ 57 1,2-Dichloroethane-d4 (Surr)	102	6.898	6.904	-0.006	84	79164	50.0	50.4	
58 Benzene	78	6.941	6.941	0.000	96	505672	20.0	19.3	
59 1,2-Dichloroethane	62	7.008	7.014	-0.006	97	163779	20.0	19.3	
61 Tert-amyl methyl ether	73	7.135	7.148	-0.013	99	376996	20.0	18.2	
* 62 Fluorobenzene (IS)	96	7.348	7.354	-0.006	99	1278672	50.0	50.0	
63 n-Heptane	43	7.379	7.379	0.000	92	160790	20.0	17.3	
64 n-Butanol	56	7.744	7.750	-0.006	89	503189	1000.0	850.5	
66 Trichloroethene	95	7.835	7.841	-0.006	97	130708	20.0	19.4	
68 Methylcyclohexane	83	8.151	8.151	0.000	91	224042	20.0	18.1	
69 1,2-Dichloropropane	63	8.170	8.176	-0.006	97	130383	20.0	19.0	
70 2-ethoxy-2-methyl butane	87	8.194	8.194	0.000	95	177928	20.0	17.7	
73 1,4-Dioxane	88	8.261	8.267	-0.006	49	75389	500.0	499.8	
72 Methyl methacrylate	69	8.273	8.273	0.000	92	111283	20.0	16.1	
74 Dibromomethane	93	8.279	8.285	-0.006	96	91889	20.0	19.1	
75 Dichlorobromomethane	83	8.529	8.529	0.000	100	159973	20.0	19.1	
76 2-Nitropropane	41	8.802	8.802	0.000	97	55410	20.0	18.9	
77 2-Chloroethyl vinyl ether	63	8.900	8.906	-0.006	91	87064	20.0	17.5	a
78 cis-1,3-Dichloropropene	75	9.094	9.094	0.000	97	185360	20.0	17.2	
79 4-Methyl-2-pentanone (MIBK)	43	9.283	9.283	0.000	96	2832490	250.0	212.2	
$ 80 Toluene-d8 (Surr)	98	9.417	9.423	-0.006	93	1228644	50.0	50.6	
81 Toluene	92	9.502	9.502	0.000	99	308432	20.0	20.2	
82 trans-1,3-Dichloropropene	75	9.776	9.776	0.000	92	166175	20.0	18.6	
100 Ethyl methacrylate	69	9.849	9.849	0.000	91	177714	20.0	16.6	
118 1,1,2-Trichloroethane	97	9.983	9.989	-0.006	89	120393	20.0	20.1	
119 Tetrachloroethene	166	10.080	10.080	0.000	97	138610	20.0	21.8	
120 1,3-Dichloropropane	76	10.153	10.153	0.000	90	185807	20.0	19.7	
123 2-Hexanone	43	10.214	10.220	-0.006	96	2031526	250.0	236.4	
125 Chlorodibromomethane	129	10.378	10.378	0.000	90	131303	20.0	20.4	
127 Ethylene Dibromide	107	10.488	10.487	0.001	99	125478	20.0	20.0	
* 128 Chlorobenzene-d5 (IS)	117	10.932	10.938	-0.006	85	902149	50.0	50.0	
129 1-Chlorohexane	91	10.950	10.950	0.000	96	149846	20.0	17.8	
130 Chlorobenzene	112	10.962	10.962	0.000	97	343719	20.0	20.1	
131 1,1,1,2-Tetrachloroethane	131	11.047	11.047	0.000	97	139700	20.0	21.0	
132 Ethylbenzene	91	11.053	11.053	0.000	97	588767	20.0	20.0	
134 m-Xylene & p-Xylene	106	11.175	11.175	0.000	99	476310	40.0	40.6	
136 o-Xylene	106	11.510	11.510	0.000	95	250611	20.0	19.7	
137 Styrene	104	11.522	11.522	0.000	95	368264	20.0	19.2	
138 Bromoform	173	11.674	11.674	0.000	97	100790	20.0	20.0	
139 Isopropylbenzene	105	11.814	11.814	0.000	95	657093	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
$ 142 4-Bromofluorobenzene (Surr)	95	11.954	11.954	0.000	93	425804	50.0	48.0	
143 1,1,2,2-Tetrachloroethane	83	12.063	12.063	0.000	94	221507	20.0	19.3	
144 Bromobenzene	156	12.069	12.069	0.000	91	155526	20.0	20.7	
145 trans-1,4-Dichloro-2-butene	53	12.087	12.087	0.000	94	196777	100.0	63.9	
146 1,2,3-Trichloropropane	110	12.106	12.106	0.000	82	65373	20.0	20.0	
147 N-Propylbenzene	91	12.148	12.148	0.000	98	722869	20.0	20.3	
148 2-Chlorotoluene	126	12.221	12.221	0.000	97	157510	20.0	20.3	
149 1,3,5-Trimethylbenzene	105	12.288	12.288	0.000	94	544867	20.0	19.8	
150 4-Chlorotoluene	126	12.313	12.313	0.000	96	152700	20.0	20.3	
153 tert-Butylbenzene	134	12.532	12.532	0.000	92	106295	20.0	20.0	
155 1,2,4-Trimethylbenzene	105	12.574	12.574	0.000	96	562638	20.0	20.1	
156 sec-Butylbenzene	105	12.696	12.696	0.000	94	697764	20.0	20.1	
158 1,3-Dichlorobenzene	146	12.793	12.793	0.000	98	311868	20.0	21.1	
159 4-Isopropyltoluene	119	12.805	12.805	0.000	97	609698	20.0	19.8	
* 160 1,4-Dichlorobenzene-d4	152	12.848	12.848	0.000	93	527115	50.0	50.0	
161 1,4-Dichlorobenzene	146	12.866	12.866	0.000	96	315347	20.0	21.1	
162 1,2,3-Trimethylbenzene	105	12.878	12.878	0.000	98	571026	20.0	19.0	
163 Benzyl chloride	91	12.945	12.939	0.006	98	405209	20.0	18.2	
164 1,3-Diethylbenzene	119	13.006	13.006	0.000	95	362122	20.0	19.7	
165 p-Diethylbenzene	119	13.079	13.079	0.000	94	379876	20.0	19.8	
166 n-Butylbenzene	92	13.097	13.097	0.000	97	297361	20.0	19.2	
167 1,2-Dichlorobenzene	146	13.128	13.128	0.000	99	325166	20.0	20.6	
168 o-diethylbenzene	119	13.152	13.152	0.000	94	300852	20.0	19.5	
170 1,2-Dibromo-3-Chloropropane	75	13.669	13.669	0.000	90	61104	20.0	17.7	
171 1,3,5-Trichlorobenzene	180	13.797	13.797	0.000	98	250521	20.0	20.2	
172 1,2,4-Trichlorobenzene	180	14.223	14.223	0.000	95	247167	20.0	19.9	
174 Hexachlorobutadiene	225	14.308	14.308	0.000	98	96887	20.0	20.2	
175 Naphthalene	128	14.399	14.399	0.000	97	887496	20.0	19.4	
176 1,2,3-Trichlorobenzene	180	14.545	14.545	0.000	96	245966	20.0	20.0	
177 2-Methylnaphthalene	142	15.148	15.148	0.000	92	440400	20.0	18.6	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MSV_LCS_VOC#1_00175	Amount Added: 50.00	Units: uL	
MSV_LCS_Gases_00206	Amount Added: 50.00	Units: uL	
MSV_LCS_ACROL_00178	Amount Added: 50.00	Units: uL	
MSV_LCS_2CEVE_00179	Amount Added: 50.00	Units: uL	
MSV_HP04_ISSS_00003	Amount Added: 1.00	Units: uL	Run Reagent

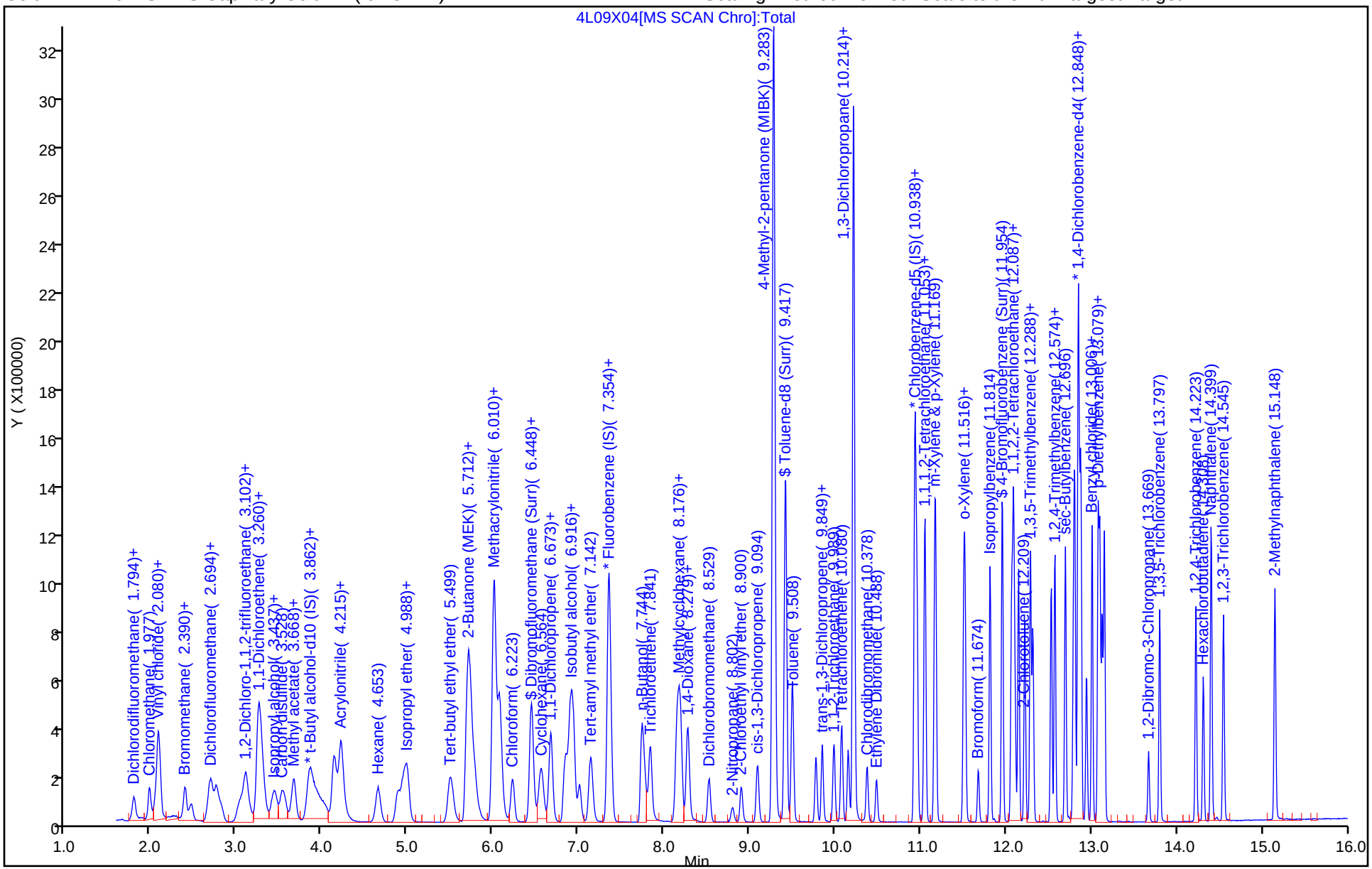
Report Date: 09-Jul-2024 11:23:51 Chrom Revision: 2.3 26-Jun-2024 16:13:32

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X04.D

Injection Date:	09-Jul-2024 10:13:30	Instrument ID:	23297	Operator ID:	CLM27445
Lims ID:	LCSD			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSVoa_23297	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\4L09X04.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 09-Jul-2024 10:13:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 410-0118805-005
Misc. Info.: LCSD
Operator ID: CLM27445 Instrument ID: 23297

Method: \\chromfs\Lancaster\ChromData\23297\20240709-118805.b\MSVoa_23297.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2024 11:21:24 Calib Date: 21-May-2024 03:15:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\23297\20240520-114468.b\4Y20X17.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1645

First Level Reviewer: TQ4J Date: 09-Jul-2024 11:21:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 51 Dibromofluoromethane (Surr)	50.0	52.3	104.60
$ 57 1,2-Dichloroethane-d4 (Surr)	50.0	50.4	100.73
$ 80 Toluene-d8 (Surr)	50.0	50.6	101.22
$ 142 4-Bromofluorobenzene (Surr)	50.0	48.0	95.99

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1

SDG No.:

Instrument ID: 23297 Start Date: 05/20/2024 20:57

Analysis Batch Number: 508211 End Date: 05/21/2024 05:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-508211/1		05/20/2024 20:57	1	4Y20T01.D	R-624SilMS 30m 0.25(mm)
IC 410-508211/3		05/20/2024 21:37	1	4Y20X02.D	R-624SilMS 30m 0.25(mm)
IC 410-508211/4		05/20/2024 22:00	1	4Y20X03.D	R-624SilMS 30m 0.25(mm)
IC 410-508211/5		05/20/2024 22:22	1	4Y20X04.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		05/20/2024 22:22	1		R-624SilMS 30m 0.25(mm)
IC 410-508211/6		05/20/2024 22:45	1	4Y20X05.D	R-624SilMS 30m 0.25(mm)
IC 410-508211/7		05/20/2024 23:07	1	4Y20X06.D	R-624SilMS 30m 0.25(mm)
IC 410-508211/8		05/20/2024 23:30	1	4Y20X07.D	R-624SilMS 30m 0.25(mm)
ICV 410-508211/10		05/21/2024 00:15	1		R-624SilMS 30m 0.25(mm)
IC 410-508211/12		05/21/2024 01:00	1	4Y20X11.D	R-624SilMS 30m 0.25(mm)
IC 410-508211/13		05/21/2024 01:22	1	4Y20X12.D	R-624SilMS 30m 0.25(mm)
IC 410-508211/14		05/21/2024 01:45	1	4Y20X13.D	R-624SilMS 30m 0.25(mm)
IC 410-508211/15		05/21/2024 02:07	1	4Y20X14.D	R-624SilMS 30m 0.25(mm)
ICIS 410-508211/16		05/21/2024 02:30	1	4Y20X15.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		05/21/2024 02:30	1		R-624SilMS 30m 0.25(mm)
IC 410-508211/17		05/21/2024 02:52	1	4Y20X16.D	R-624SilMS 30m 0.25(mm)
IC 410-508211/18		05/21/2024 03:15	1	4Y20X17.D	R-624SilMS 30m 0.25(mm)
ICV 410-508211/20		05/21/2024 04:00	1	4Y20X19.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		05/21/2024 04:45	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		05/21/2024 05:07	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		05/21/2024 05:29	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-177784-1

SDG No.:

Instrument ID: 23297 Start Date: 07/09/2024 08:19

Analysis Batch Number: 525900 End Date: 07/09/2024 19:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-525900/1		07/09/2024 08:19	1	4L09T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-525900/3		07/09/2024 09:28	1	4L09X02.D	R-624SilMS 30m 0.25(mm)
LCS 410-525900/4		07/09/2024 09:51	1	4L09X03.D	R-624SilMS 30m 0.25(mm)
LCSD 410-525900/5		07/09/2024 10:13	1	4L09X04.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 10:36	1		R-624SilMS 30m 0.25(mm)
MB 410-525900/7		07/09/2024 10:58	1	4L09X06.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 12:15	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 12:38	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 13:00	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 13:22	1		R-624SilMS 30m 0.25(mm)
410-177784-1	HD-CW-21-0/1-0	07/09/2024 13:45	1	4L09X11.D	R-624SilMS 30m 0.25(mm)
410-177784-2	HD-CW-22-0/1-0	07/09/2024 14:07	1	4L09X12.D	R-624SilMS 30m 0.25(mm)
410-177784-3	HD-CW-23-0/1-0	07/09/2024 14:30	1	4L09X13.D	R-624SilMS 30m 0.25(mm)
410-177784-4	HD-SPBA-EFF-0/1-0	07/09/2024 14:52	1	4L09X14.D	R-624SilMS 30m 0.25(mm)
410-177784-5	Trip Blank	07/09/2024 15:15	1	4L09X15.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 15:38	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 16:00	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 16:23	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 16:45	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 17:08	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 17:30	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 17:53	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 18:16	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 18:38	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 19:01	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 19:23	1		R-624SilMS 30m 0.25(mm)
ZZZZZ		07/09/2024 19:46	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories | Job No.: 410-177784-1

SDG No.:

Batch Number: 508211 | Batch Start Date: 05/20/24 20:57 | 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_4ppbEtoh 00647	MSV_CCV_2CEVE 00176	MSV_CCV_CYC 00008
BFB 410-508211/1		8260D			1 uL	1 uL				
IC 410-508211/3		8260D			5 mL	5 mL	2736			
IC 410-508211/4		8260D			5 mL	5 mL	2736			
IC 410-508211/5		8260D			5 mL	5 mL	2736			
IC 410-508211/6		8260D			5 mL	5 mL	2736			
IC 410-508211/7		8260D			5 mL	5 mL	2736			
IC 410-508211/8		8260D			5 mL	5 mL	2736			
IC 410-508211/12		8260D			5 mL	5 mL	2736	12.5 mL		
IC 410-508211/13		8260D			5 mL	5 mL	2736		4 uL	32 uL
IC 410-508211/14		8260D			5 mL	5 mL	2736		2 uL	8 uL
IC 410-508211/15		8260D			5 mL	5 mL	2736		4 uL	16 uL
ICIS 410-508211/16		8260D			5 mL	5 mL	2736		5 uL	10 uL
IC 410-508211/17		8260D			5 mL	5 mL	2736		5 uL	10 uL
IC 410-508211/18		8260D			5 mL	5 mL	2736		15 uL	30 uL
ICV 410-508211/20		8260D			5 mL	5 mL	2736			

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_EE 00007	MSV_CCV_ETOH 00006	MSV_CCV_GASES 00772	MSV_CCV_LKB 00009	MSV_CCV_OH_Sp 00007	MSV_CCV_Penta 00049
BFB 410-508211/1		8260D								
IC 410-508211/3		8260D			15 uL			15 uL		15 uL
IC 410-508211/4		8260D			5 uL			5 uL		5 uL
IC 410-508211/5		8260D			5 uL			5 uL		5 uL
IC 410-508211/6		8260D			4 uL			4 uL		4 uL
IC 410-508211/7		8260D			2 uL			2 uL		2 uL
IC 410-508211/8		8260D			4 uL			4 uL		4 uL
IC 410-508211/12		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.: 410-177784-1

SDG No.:

Batch Number: 508211 | Batch Start Date: 05/20/24 20:57 | Batch Analyst: Campbell, Miranda E

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_EE 00007	MSV_CCV_ETOH 00006	MSV_CCV_GASES 00772	MSV_CCV_LKB 00009	MSV_CCV_OH_Sp 00007	MSV_CCV_Penta 00049
IC 410-508211/13		8260D				20 uL	2 uL		4 uL	
IC 410-508211/14		8260D				8 uL	1 uL		2 uL	
IC 410-508211/15		8260D				16 uL	2 uL		4 uL	
ICIS 410-508211/16		8260D				10 uL	2.5 uL		5 uL	
IC 410-508211/17		8260D				10 uL	2.5 uL		5 uL	
IC 410-508211/18		8260D				30 uL	7.5 uL		15 uL	
ICV 410-508211/20		8260D								

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_V5ACE 00036	MSV_CCV_VOC#1 00184	MSV_CCV_VOC#3 00180	MSV_HP04_ISO 00002	MSV_HP04_ISSS 00003	MSV_LCS_2CEVE 00172
BFB 410-508211/1		8260D								
IC 410-508211/3		8260D			15 uL			1 uL		
IC 410-508211/4		8260D			5 uL			1 uL		
IC 410-508211/5		8260D			5 uL			1 uL		
IC 410-508211/6		8260D			4 uL			1 uL		
IC 410-508211/7		8260D			2 uL			1 uL		
IC 410-508211/8		8260D			4 uL			1 uL		
IC 410-508211/12		8260D							1 uL	
IC 410-508211/13		8260D				4 uL	3.2 uL		1 uL	
IC 410-508211/14		8260D				2 uL	1.6 uL		1 uL	
IC 410-508211/15		8260D				4 uL	3.2 uL		1 uL	
ICIS 410-508211/16		8260D				5 uL	4 uL		1 uL	
IC 410-508211/17		8260D				5 uL	4 uL		1 uL	
IC 410-508211/18		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.: 410-177784-1

SDG No.:

Batch Number: 508211 | Batch Start Date: 05/20/24 20:57 | Batch Analyst: Campbell, Miranda E

Batch Method: 8260D | Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_V5ACE 00036	MSV_CCV_VOC#1 00184	MSV_CCV_VOC#3 00180	MSV_HP04_ISO 00002	MSV_HP04_ISSS 00003	MSV_LCS_2CEVE 00172
ICV 410-508211/20		8260D							1 uL	50 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_ACROL 00168	MSV_LCS_CYC 00008	MSV_LCS_ETOH 00006	MSV_LCS_Gases 00198	MSV_LCS_OH_Sp 00013	MSV_LCS_VOC#1 00167
BFB 410-508211/1		8260D								
IC 410-508211/3		8260D								
IC 410-508211/4		8260D								
IC 410-508211/5		8260D								
IC 410-508211/6		8260D								
IC 410-508211/7		8260D								
IC 410-508211/8		8260D								
IC 410-508211/12		8260D								
IC 410-508211/13		8260D								
IC 410-508211/14		8260D								
IC 410-508211/15		8260D								
ICIS 410-508211/16		8260D								
IC 410-508211/17		8260D								
IC 410-508211/18		8260D								
ICV 410-508211/20		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 00018				
BFB 410-508211/1		8260D			1 uL					
IC 410-508211/3		8260D				7.5 uL				
IC 410-508211/4		8260D				2.5 uL				
IC 410-508211/5		8260D				2.5 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-177784-1

SDG No.:

Batch Number: 508211 Batch Start Date: 05/20/24 20:57 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 00018				
IC 410-508211/6		8260D				2 uL				
IC 410-508211/7		8260D				1 uL				
IC 410-508211/8		8260D				2 uL				
IC 410-508211/12		8260D								
IC 410-508211/13		8260D								
IC 410-508211/14		8260D								
IC 410-508211/15		8260D								
ICIS 410-508211/16		8260D								
IC 410-508211/17		8260D								
IC 410-508211/18		8260D								
ICV 410-508211/20		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.: 410-177784-1

SDG No.:

Batch Number: 525900 | Batch Start Date: 07/09/24 08:19 | Batch Analyst: Mellinger, Corie M

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 410-525900/1		8260D			1 uL	1 uL				
CCVIS 410-525900/3		8260D			5 mL	5 mL				2750
LCS 410-525900/4		8260D			5 mL	5 mL				2750
LCSD 410-525900/5		8260D			5 mL	5 mL				2750
MB 410-525900/7		8260D			5 mL	5 mL				2750
410-177784-A-1	HD-CW-21-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-177784-A-2	HD-CW-22-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-177784-A-3	HD-CW-23-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-177784-A-4	HD-SPBA-EFF-0/1-0	8260D	Water	T	5 mL	5 mL	<2 SU	N	N	
410-177784-A-5	Trip Blank	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 00811	MSV_CCV_VOC#1 00191	MSV_CCV_VOC#3 00187	MSV_HP04_ISSS 00003	MSV_LCS_2CEVE 00179
BFB 410-525900/1		8260D								
CCVIS 410-525900/3		8260D			5 uL	2.5 uL	5 uL	4 uL	1 uL	
LCS 410-525900/4		8260D							1 uL	50 uL
LCSD 410-525900/5		8260D							1 uL	50 uL
MB 410-525900/7		8260D							1 uL	
410-177784-A-1	HD-CW-21-0/1-0	8260D	Water	T					1 uL	
410-177784-A-2	HD-CW-22-0/1-0	8260D	Water	T					1 uL	
410-177784-A-3	HD-CW-23-0/1-0	8260D	Water	T					1 uL	
410-177784-A-4	HD-SPBA-EFF-0/1-0	8260D	Water	T					1 uL	
410-177784-A-5	Trip Blank	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		

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.: 410-177784-1

SDG No.:

Batch Number: 525900 | Batch Start Date: 07/09/24 08:19 | Batch Analyst: Mellinger, Corie M

Batch Method: 8260D | Batch End Date:

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 410-525900/1		8260D						1 uL		
CCVIS 410-525900/3		8260D								
LCS 410-525900/4		8260D			50 uL	50 uL	50 uL			
LCSD 410-525900/5		8260D			50 uL	50 uL	50 uL			
MB 410-525900/7		8260D								
410-177784-A-1	HD-CW-21-0/1-0	8260D	Water	T						
410-177784-A-2	HD-CW-22-0/1-0	8260D	Water	T						
410-177784-A-3	HD-CW-23-0/1-0	8260D	Water	T						
410-177784-A-4	HD-SPBA-EFF-0/1-0	8260D	Water	T						
410-177784-A-5	Trip Blank	8260D	Water	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

370472
HARRISBURG PA

410-177784 Chain of Custody

eurofins | Lancaster Laboratories Environmental

Environmental A... Chain of Custody

Acct. # _____ Group # _____ Sample # _____

Client: **Hydro-Terra Group**			
Project Name/#: fYNOP Quarterly Event	Site ID #: fYNOP, York PA		
Project Manager: Rodney Myers	P.O. #: 10012.42		
Sampler: Emily Wade (HTG)	PWSID #: N/A		
Phone #: 443-974-7978	Quote #:		
State where samples were collected: York, PA	For Compliance: Yes ☐ No ☑		

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil	Sediment	Tissue	Water	Potable	Ground	NPDES	Surface	Other:	Total # of Containers	Aqueous VOCs via 8260D (standard level)	H									
					Matrix										Analyses Requested / Preservation Codes										
HD-CW-21-0/1-0	6/26/24	1046	X					X						3	X										
HD-CW-22-0/1-0	6/26/24	1053	X					X						3	X										
HD-CW-23-0/1-0	6/26/24	1100	X					X						3	X										
HD-SPBA-EFF-0/1-0	6/26/24	1106	X					X						3	X										
Trip Blank	—	—	X					—						2	X										

For Lab Use Only
SF #: _____
SCR #: _____

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
O = Other

Remarks

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address:

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category	☐ A or ☐ B

EDD Required? Yes ☑ No ☐ If yes, format: CLP Like Deliverables, Project Specific Analyte List

Relinquished by:	Date	Time	Received by:	Date	Time
HTG Emily Wade	6/26/24	1230	[signature]	6/26/24	1230
[signature]	6/27/24	1346	[signature]	6/27/24	1346
[signature]	6/27/24	1453			
			[signature] 6/27/24		1453

Relinquished by Commercial Carrier:
UPS _____ FedEx _____ Other _____

Temperature upon receipt 1.3/1.3 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0216

Login Sample Receipt Checklist

Client: Hydro-Terra Group

Job Number: 410-177784-1

Login Number: 177784

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 1

Creator: McCaskey, Jonathan

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature 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.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	